

**GENERAL INFORMATION**

**OWNER/APPLICANT**

STEPHEN B. PHILLIPS  
33 SOFIA WAY  
NOTTINGHAM, NH 03270

**RESOURCE LIST**

LAND USE DEPARTMENT  
P.O. BOX 660  
333 CALEF HIGHWAY  
BARRINGTON, NH 03825  
(603) 664-5798  
MARCIA GASSES, PLANNER & LAND USE ADMINISTRATOR

BUILDING DEPARTMENT/CODE ENFORCEMENT  
P.O. BOX 660  
333 CALEF HIGHWAY  
BARRINGTON, NH 03825  
(603) 664-5183  
JOHN HUCKINS, BUILDING INSPECTOR/  
CODE ENFORCEMENT OFFICER

POLICE DEPARTMENT  
P.O. BOX 617  
774 FRANKLIN PIERCE HIGHWAY  
BARRINGTON, NH 03825  
(603) 664-7679  
ROBERT WILLIAMS, CHIEF

FIRE RESCUE  
774 FRANKLIN PIERCE HIGHWAY  
BARRINGTON, NH 03825  
(603) 664-2241  
RICK WALKER, CHIEF

# SITE IMPROVEMENT PLANS

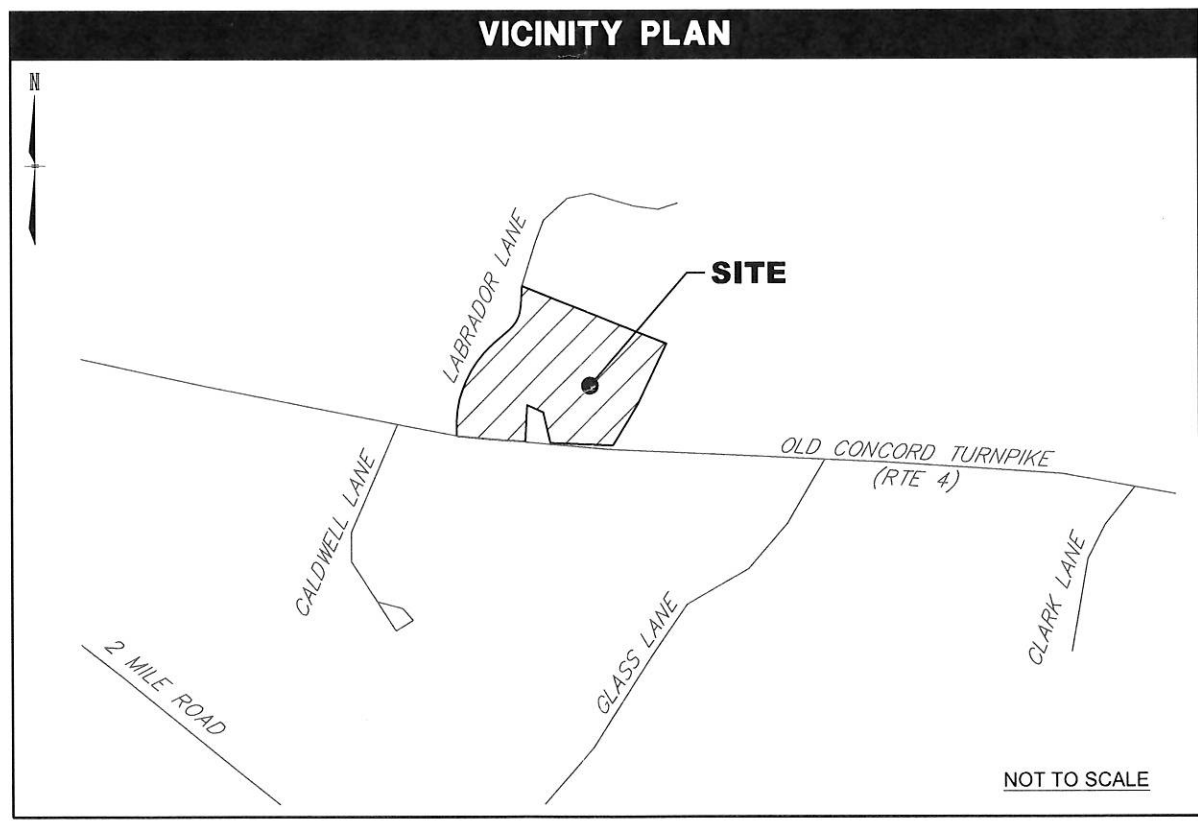
## "HEIDLEBERG FARMS"

**LABRADOR LANE  
BARRINGTON, NEW HAMPSHIRE**

**OCTOBER 11, 2017**

INDEX OF SHEETS	
SHEET	SHEET TITLE
C-0	COVER SHEET
C-1	EXISTING CONDITIONS PLAN
C-2	SITE LAYOUT PLAN
C-3	GRADING, DRAINAGE & EROSION CONTROL PLAN
C-4	EROSION CONTROL NOTES & DETAILS
C-5	DETAILS

PERMITS / APPROVALS			
	NUMBER	APPROVED	EXPIRES
	NO	DATE	DATE
MINOR SITE PLAN			



**TOWN OF BARRINGTON NOTES:**

1. THE PURPOSE OF THIS PLAN SET IS TO SHOW IMPROVEMENTS TO THE LOT FOR A SEASONAL WORKING LANDSCAPE COMPANY & NURSERY.
2. THE EXISTING USE IS A VACANT LOT AND THE PROPOSED USE IS A SEASONAL WORKING LANDSCAPE COMPANY & NURSERY.
3. THE WATER SUPPLY SHALL BE VIA THE EXISTING ON-SITE WELL WHICH WILL BE CONNECTED TO A STANDARD HOSE RUNNING OVER GROUND.
4. IF, DURING CONSTRUCTION, IT BECOMES APPARENT THAT DEFICIENCIES EXIST IN THE APPROVED DESIGN DRAWINGS, THE OWNER SHALL BE REQUIRED TO CORRECT THE DEFICIENCIES TO MEET THE REQUIREMENTS OF THE REGULATIONS AT NO EXPENSE TO THE TOWN.
5. REQUIRED EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY DISTURBANCE OF THE SITE'S SURFACE AREA AND SHALL BE MAINTAINED THROUGH THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES. IF, DURING CONSTRUCTION, IT BECOMES APPARENT THAT ADDITIONAL EROSION CONTROL MEASURES ARE REQUIRED TO STOP ANY EROSION ON THE CONSTRUCTION SITE DUE TO ACTUAL SITE CONDITIONS, THE OWNER SHALL BE REQUIRED TO INSTALL THE NECESSARY EROSION PROTECTION AT NO EXPENSE TO THE TOWN.
6. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL CONFORM TO TOWN OF BARRINGTON SITE REVIEW REGULATIONS AND THE LATEST EDITION OF THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

PLANNING BOARD APPROVAL BLOCK

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

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

**SITE IMPROVEMENT PLANS**

TAX MAP 270 LOT 66-3  
**COVER SHEET**  
**HEIDLEBERG FARMS**  
**LABRADOR LANE**  
**BARRINGTON, NEW HAMPSHIRE**  
**COUNTY OF STRAFFORD**  
OWNED BY  
**STEPHEN B. PHILLIPS**

Copyright 2017 © Thomas F. Moran, Inc.  
49 Constitution Drive, Bedford, N.H. 03110  
All rights reserved. These plans and materials may not be copied, duplicated, replicated or otherwise reproduced in any form whatsoever without the prior written permission of Thomas F. Moran, Inc.  
This plan is not effective unless signed by a duly authorized officer of Thomas F. Moran, Inc.

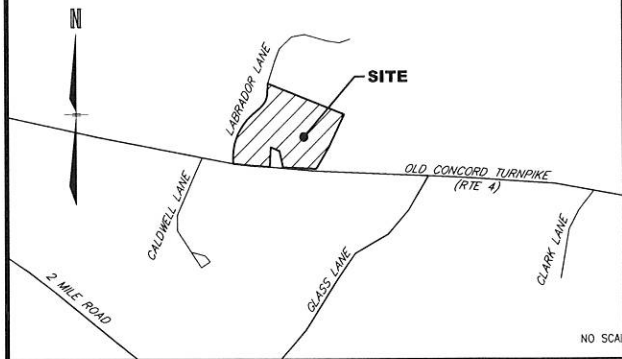
REV.	DATE	DESCRIPTION	DR	CK

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

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

FILE	47249.00	DR	CWG	FB	-	C-0
		CK	JPL	CADFILE	Cover.dwg	

Oct 11, 2017 - 12:10pm F:\MSC Projects\47249 - Barrington Lane - Labrador Lane - Phillips - Labrador Lane\Design\Production Drawings\47249\_00\_CO\_Cover.dwg



### LOCATION PLAN

### LEGEND

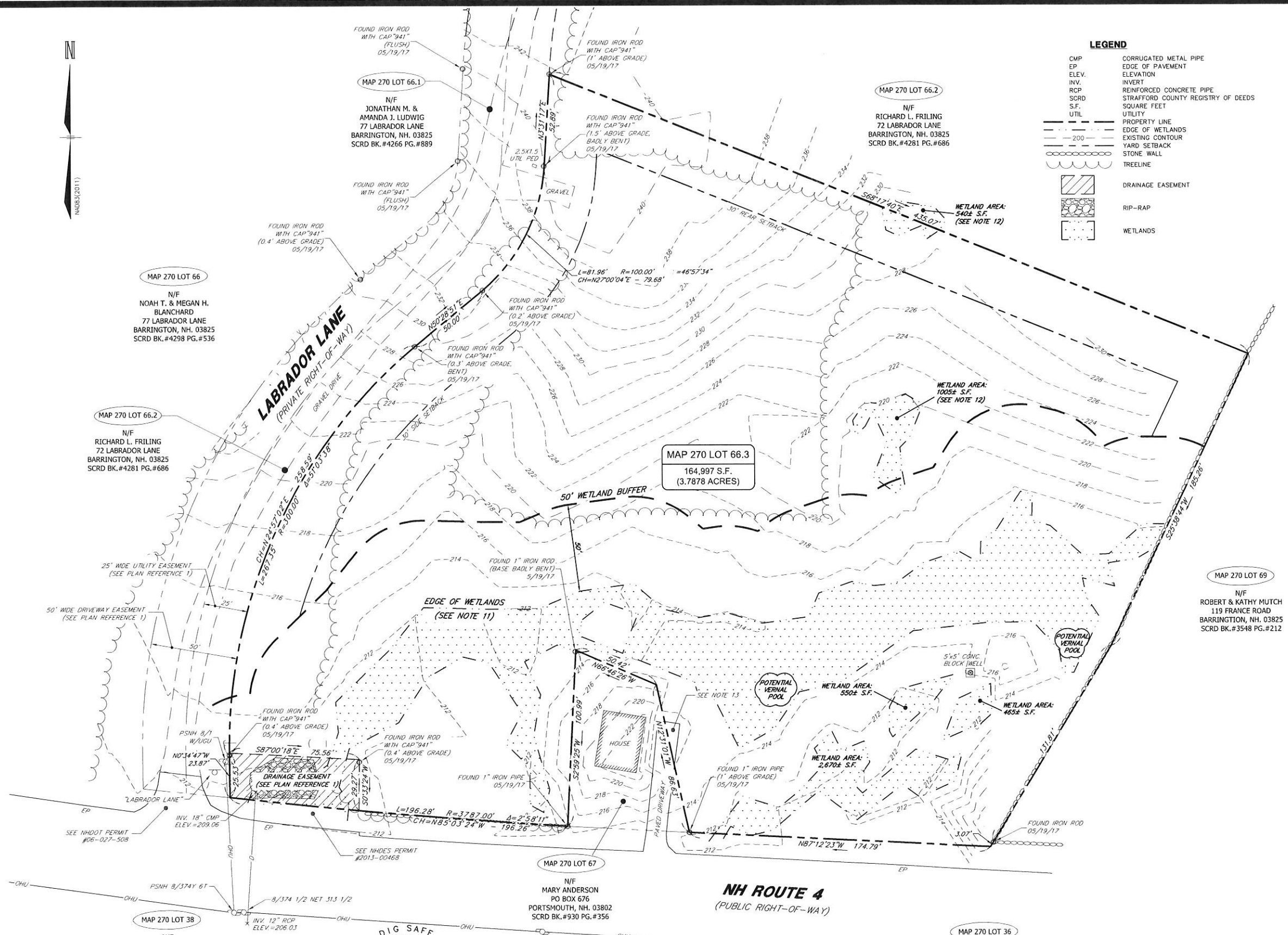
- CMP CORRUGATED METAL PIPE
- EP EDGE OF PAVEMENT
- ELEV. ELEVATION
- INV. INVERT
- RCP REINFORCED CONCRETE PIPE
- SCRD STRAFFORD COUNTY REGISTRY OF DEEDS
- S.F. SQUARE FEET
- UTIL UTILITY
- PROPERTY LINE
- - - - - EDGE OF WETLANDS
- - - - - EXISTING CONTOUR
- - - - - YARD SETBACK
- - - - - STONE WALL
- - - - - TREE LINE
- [Hatched Box] DRAINAGE EASEMENT
- [Stippled Box] RIP-RAP
- [Dotted Box] WETLANDS

### REFERENCE PLANS:

- "SUBDIVISION PLAN PREPARED FOR ROUTE 4 OAKS OF LANDS IDENTIFIED AS TAX MAP 270 LOT 66 OF LANDS LOCATED ON NH ROUTE 4 BARRINGTON, NH 03825." BY POMPEY LAND SURVEYORS & SEPTIC SYSTEM DESIGN, INC. 42 FLAGG ROAD ROCHESTER, NH 03859. DATED JANUARY 11, 2012 REVISED IN 03/07/14. SCR D P-107-061.

### NOTES:

- THE PARCEL IS LOCATED IN THE REGIONAL COMMERCIAL (RC) DISTRICT AND THE WETLAND PROTECTION DISTRICT OVERLAY (WDO).
- THE PARCEL IS SHOWN ON THE TOWN OF BARRINGTON ASSESSOR'S MAP 270 AS LOT 66.3.
- THE PARCEL IS LOCATED IN FLOOD ZONE X AS SHOWN ON FLOOD INSURANCE RATE MAP COMMUNITY - PANEL NUMBER 33017C0295D WITH AN EFFECTIVE DATE OF 5/17/2005.
- OWNER OF RECORD: STEPHEN B. PHILLIPS  
33 SOPHIA WAY  
NOTTINGHAM, NH. 03290  
SCRD BK.#4339 PG.#411
- TOTAL LOA AREA: 164,997 S.F. (3.7878 ACRES)
- THE PURPOSE OF THIS PLAN IS TO SHOW THE EXISTING CONDITIONS
- ZONING REQUIREMENTS:  
MINIMUM LOT AREA: 40,000 S.F.(\*)  
MINIMUM LOT FRONTAGE: 200 FEET  
MINIMUM YARD SETBACKS:  
FRONT: 75 FEET(\*\*)  
SIDE: 30 FEET  
REAR: 30 FEET  
MAXIMUM BUILDING HEIGHT: 40 FEET OR 3 STORIES(\*\*\*)  
MAXIMUM LOT COVERAGE: 50%
- HORIZONTAL DATUM IS NAD 83 (2011) PER STATIC GPS OBSERVATIONS. VERTICAL DATUM IS NAVD 88 PER STATIC GPS OBSERVATIONS.
- EASEMENTS, RIGHTS, AND RESTRICTIONS SHOWN OR IDENTIFIED ARE THOSE WHICH WERE FOUND DURING RESEARCH PERFORMED AT THE STRAFFORD COUNTY REGISTRY OF DEEDS. OTHER RIGHTS, EASEMENTS, OR RESTRICTIONS MAY EXIST WHICH A TITLE EXAMINATION OF SUBJECT PARCEL WOULD DETERMINE.
- THE LOCATION OF ANY UNDERGROUND UTILITY INFORMATION SHOWN ON THIS PLAN IS APPROXIMATE. TIFRAN INC. MAKES NO CLAIM TO THE ACCURACY OR COMPLETENESS OF UNDERGROUND UTILITIES SHOWN. PRIOR TO ANY EXCAVATION ON SITE THE CONTRACTOR SHALL CONTACT DIG SAFE AT 811.
- JURISDICTIONAL WETLANDS WITHIN THE AREA-OF-INTEREST WERE DELINEATED ON MAY 19, 2017 BY MARC JACOBS, CERTIFIED WETLAND SCIENTIST NUMBER 090, ACCORDING TO THE STANDARDS OF THE U.S. ARMY CORPS OF ENGINEERS - WETLANDS DELINEATION MANUAL: THE 2012 REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: NORTHCENTRAL AND NORTHEAST REGION, THE CODE OF ADMINISTRATIVE RULES, NH DEPARTMENT OF ENVIRONMENTAL SERVICES - WETLANDS BUREAU - ENV WT 100-900 AND ARTICLE 9 - WETLANDS PROTECTION DISTRICT OVERLAY OF THE TOWN OF BARRINGTON, NH ZONING ORDINANCE. SOILS WERE EVALUATED UTILIZING THE FIELD INDICATORS FOR IDENTIFYING HYDRIC SOILS IN NEW ENGLAND, VERSION 3, APRIL 2004 AND THE FIELD INDICATORS OF HYDRIC SOILS IN THE UNITED STATES, VERSION 8, 2016. THE INDICATOR STATUS OF VEGETATION AS HYDROPHYTIC WAS DETERMINED ACCORDING TO THE U.S. ARMY CORPS OF ENGINEERS - NORTHCENTRAL AND NORTHEAST 2016 REGIONAL WETLAND PLANT LIST. COPIES OF SITE PLANS WHICH HAVE BEEN REVIEWED BY THE WETLAND SCIENTIST ARE INDIVIDUALLY STAMPED, SIGNED AND DATED. THIS NOTE HAS BEEN CUSTOMIZED FOR THIS PROJECT.
- NO WETLAND BUFFER IS REQUIRED FOR "AN ISOLATED WETLAND OF SURFACE WATER OF 3,000 SQUARE FEET OR LESS THAT DOES NOT MEET THE DEFINITION OF A SWAMP, MARSH, BOG OR VERNAL POOL" PER SECTION 9.5(4)(g) OF THE TOWN OF BARRINGTON, NEW HAMPSHIRE ZONING ORDINANCE.
- A 109± S.F. PORTION OF THE PAVED DRIVEWAY LARGELY LOCATED ON TAX MAP 270 LOT 67 ENCLOSES ONTO TAX MAP 270 LOT 66.3.



**MAP 270 LOT 66-3**  
**EXISTING CONDITIONS PLAN**  
**HEIDLEBERG FARMS**  
**LABRADOR LANE**  
**BARRINGTON, NEW HAMPSHIRE**  
**COUNTY OF STRAFFORD**  
 OWNED BY  
**STEPHEN B. PHILLIPS**

SCALE: 1" = 30' (22x34)  
 1" = 60' (11x17)

OCTOBER 11, 2017

<b>TFM</b>	<b>MSC</b>	Civil Engineers	170 Commerce Way, Suite 102
		Structural Engineers	Portsmouth, NH 03801
		Traffic Engineers	Phone (603) 431-2222
		Land Surveyors	Fax (603) 431-0910
		Landscape Architects	www.TFMoran.com
		Scientists	

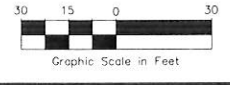
A division of TFMoran, Inc.

47249.00	DR	NUM	FB				
	CK	CAOFILE		47249.00-EC			C-1

Copyright 2017 © Thomas F. Moran, Inc.  
 48 Constitution Drive, Bedford, NH 03110  
 All rights reserved. These plans and materials may not be copied, duplicated, replicated or otherwise reproduced in any form whatsoever without the prior written permission of Thomas F. Moran, Inc.  
 This plan is not effective unless signed by a duly authorized officer of Thomas F. Moran, Inc.



CONTACT DIG SAFE 72 BUSINESS HOURS PRIOR TO CONSTRUCTION



REV.	DATE	DESCRIPTION	DR	CK

Oct 11, 2017 - 9:15am F:\MSC Projects\47249 - Barrington\47249.00 - C3D - Phillips - Labrador Lane\Survey\Drawings\47249.00\_C01-Existing.dwg



### LEGEND

- PROPERTY LINE
- SIDE YARD SETBACK
- 50' WETLAND BUFFER
- EDGE OF WETLAND
- EXISTING TREE LINE
- PROPOSED TREE LINE
- PROPOSED STONE WALL
- PROPOSED PAVEMENT MARKING
- WETLAND
- PROPOSED RAIN GARDEN
- PROPOSED GRAVEL DRIVE
- PROPOSED PAVEMENT
- PROPOSED SIGN
- PROPOSED PARKING COUNT
- SQUARE FOOT
- ACCESSIBLE PARKING

### DIRECTIONAL SIGN LEGEND

ID	SIGN	NO./SIZE/COLOR
A		R7-8 12" x 18" GREEN, WHITE & BLUE

### LAYOUT & MATERIAL NOTES

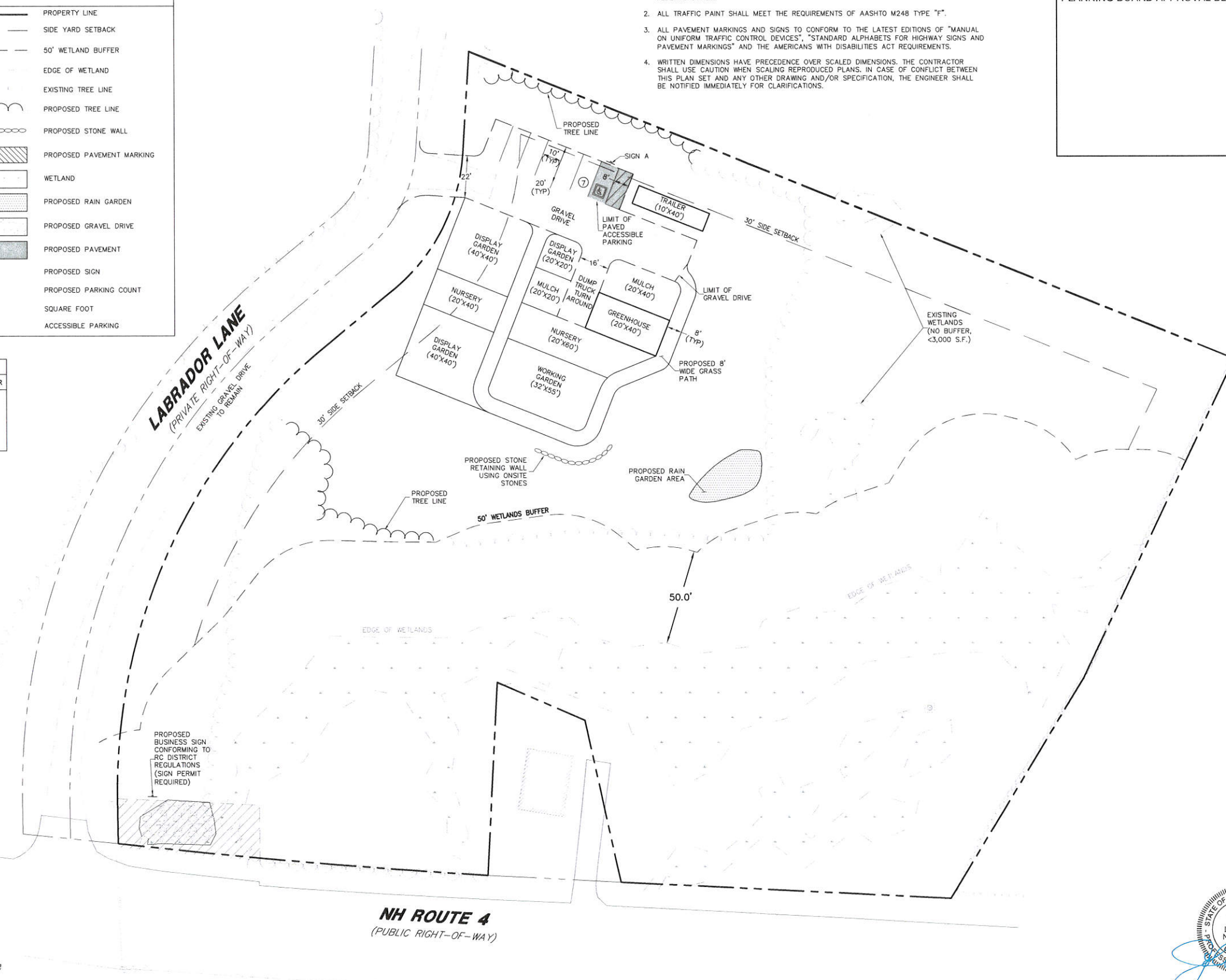
1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO APPLICABLE TOWN, STATE, AND FEDERAL CODES.
2. ALL TRAFFIC PAINT SHALL MEET THE REQUIREMENTS OF AASHTO M248 TYPE "F".
3. ALL PAVEMENT MARKINGS AND SIGNS TO CONFORM TO THE LATEST EDITIONS OF "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS" AND THE AMERICANS WITH DISABILITIES ACT REQUIREMENTS.
4. WRITTEN DIMENSIONS HAVE PRECEDENCE OVER SCALED DIMENSIONS. THE CONTRACTOR SHALL USE CAUTION WHEN SCALING REPRODUCED PLANS. IN CASE OF CONFLICT BETWEEN THIS PLAN SET AND ANY OTHER DRAWING AND/OR SPECIFICATION, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY FOR CLARIFICATIONS.

PLANNING BOARD APPROVAL BLOCK



### SITE NOTES

1. PRIOR TO COMMENCING ANY SITE WORK ALL LIMITS OF WORK SHALL BE CLEARLY MARKED IN THE FIELD.
2. AN ALTERATION OF TERRAIN PERMIT IS NOT REQUIRED AS THE DISTURBANCE IS LESS THAN 100,000 SF.
3. THE SITE WILL NOT REQUIRE A USEPA NPDES PERMIT FOR STORMWATER DISCHARGE FOR THE SITE CONSTRUCTION SINCE THE DISTURBANCE DOES NOT EXCEED ONE ACRE.
4. ALL WORK SHALL CONFORM TO THE APPLICABLE REGULATIONS AND STANDARDS OF THE TOWN OF BARRINGTON, AND SHALL BE BUILT IN A WORKMANLIKE MANNER IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.
5. ALL DEMOLITION SHALL INSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKWAYS AND ANY OTHER ADJACENT OPERATING FACILITIES. PRIOR WRITTEN PERMISSION FROM THE OWNER/DEVELOPER AND LOCAL PERMITTING AUTHORITY IS REQUIRED IF CLOSURE/OBSTRUCTIONS TO ROADS, STREET, WALKWAYS AND OTHERS IS DEEMED NECESSARY. CONTRACTOR TO PROVIDE ALTERNATE ROUTES AROUND CLOSURES/OBSTRUCTIONS PER CITY/GOVERNMENTAL REGULATIONS.
6. IF CONDITIONS AT THE SITE ARE DIFFERENT THAN SHOWN ON THE PLANS, THE ENGINEER SHALL BE NOTIFIED PRIOR TO PROCEEDING WITH THE AFFECTED WORK.
7. THESE PLANS WERE PREPARED UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER. MSC A DIVISION OF TFMORAN, INC. ASSUMES NO LIABILITY AS A RESULT OF ANY CHANGES OR NON-COMFORMANCE WITH THESE PLANS EXCEPT UPON THE WRITTEN APPROVAL OF THE ENGINEER OF RECORD.
8. MSC A DIVISION OF TFMORAN, INC. ASSUMES NO LIABILITY FOR WORK PERFORMED WITHOUT AN ACCEPTABLE PROGRAM OF TESTING AND INSPECTION AS APPROVED BY THE ENGINEER OF RECORD.
9. CONTRACTOR'S RESPONSIBILITIES:
  - A. TO NOTIFY ENGINEER IN WRITING OF ANY DISCREPANCIES OF PROPOSED LAYOUT AND/OR EXISTING FEATURES.
  - B. PROTECTING NEW AND EXISTING BURIED UTILITIES DURING INSTALLATION OF ALL SITE ELEMENTS. DAMAGED UTILITIES SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.
  - C. TAKE APPROPRIATE MEASURES TO REDUCE, TO THE FULLEST EXTENT POSSIBLE, NOISE, DUST AND UNSIGHTLY DEBRIS.
  - D. COORDINATE WITH ALL UTILITY COMPANIES AND CONTACT DIGSAFE (811 OR 888-344-7233) AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION.
  - E. THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION AND FOR CONDITIONS AT THE SITE. THESE PLANS, PREPARED BY MSC A DIVISION OF TFMORAN, INC., DO NOT EXTEND TO OR INCLUDE SYSTEMS PERTAINING TO THE SAFETY OF THE CONSTRUCTION CONTRACTOR OR THEIR EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE SEAL OF THE SURVEYOR OR ENGINEER HEREON DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEMS THAT MAY NOW OR HEREAFTER BE INCORPORATED INTO THESE PLANS. THE CONSTRUCTION CONTRACTOR SHALL PREPARE OR OBTAIN THE APPROPRIATE SAFETY SYSTEMS WHICH MAY BE REQUIRED BY THE US OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND/OR LOCAL REGULATIONS.
  - F. THE CONTRACTOR SHALL BID AND PERFORM THE WORK IN ACCORDANCE WITH ALL LOCAL, STATE AND NATIONAL CODES, SPECIFICATIONS, REGULATIONS AND STANDARDS.
  - G. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO BECOME FAMILIAR WITH THE SITE AND ALL SURROUNDING CONDITIONS. THE CONTRACTOR SHALL ADVISE THE APPROPRIATE AUTHORITY OF INTENTIONS AT LEAST 48 HOURS IN ADVANCE.
  - H. THE CONTRACTOR SHALL MAINTAIN EMERGENCY ACCESS TO ALL AREAS AFFECTED BY WORK AT ALL TIMES.
10. AREAS AND LAYOUT OF DISPLAY AND STORAGE ARE APPROXIMATE AND SUBJECT TO CHANGE AS NEEDED.

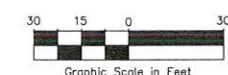


CONTACT DIG SAFE 72 BUSINESS HOURS PRIOR TO CONSTRUCTION

Copyright 2017 © Thomas F. Moran, Inc.  
48 Constitution Drive, Bedford, N.H. 03110

All rights reserved. These plans and materials may not be copied, duplicated, replicated or otherwise reproduced in any form whatsoever without the prior written permission of Thomas F. Moran, Inc.

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



REV.	DATE	DESCRIPTION	DR	CK

TAX MAP 270 LOT 66-3

**HEIDLEBERG FARMS**  
LABRADOR LANE  
BARRINGTON, NEW HAMPSHIRE  
COUNTY OF STRAFFORD  
OWNED BY  
**STEPHEN B. PHILLIPS**

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

OCTOBER 11, 2017

  A Division of TFMoran, Inc.	Civil Engineers Structural Engineers Traffic Engineers Land Surveyors Landscape Architects Scientists	170 Commerce Way, Suite 102 Portsmouth, NH 03801 Phone (603) 431-2222 Fax (603) 431-0910 www.TFMoran.com
	FILE NO. 47249.00 DR CK JPL FB CADFILE	C-2

Oct 11, 2017 - 12:12pm  
 F:\MSC Projects\47249 - Barrington\47249.00 - C3D - Phillips - Labrador Lane\Design\Production Drawings\47249.00\_C2\_Site-Lay-out.dwg





LEGEND	
	PROPOSED CONTOUR
	EXISTING CONTOUR
	DRAINAGE FLOW PATH
	PROPOSED SILT SOCK
	T.O.W./B.O.W.
	TOP OF WALL/ BOT. OF WALL

**GRADING NOTES**

- ALL DISTURBED AREAS NOT TO BE PAVED OR OTHERWISE TREATED SHALL RECEIVE 4" LOAM, SEED, FERTILIZER AND MULCH.
- DENSITY REQUIREMENTS:
 

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

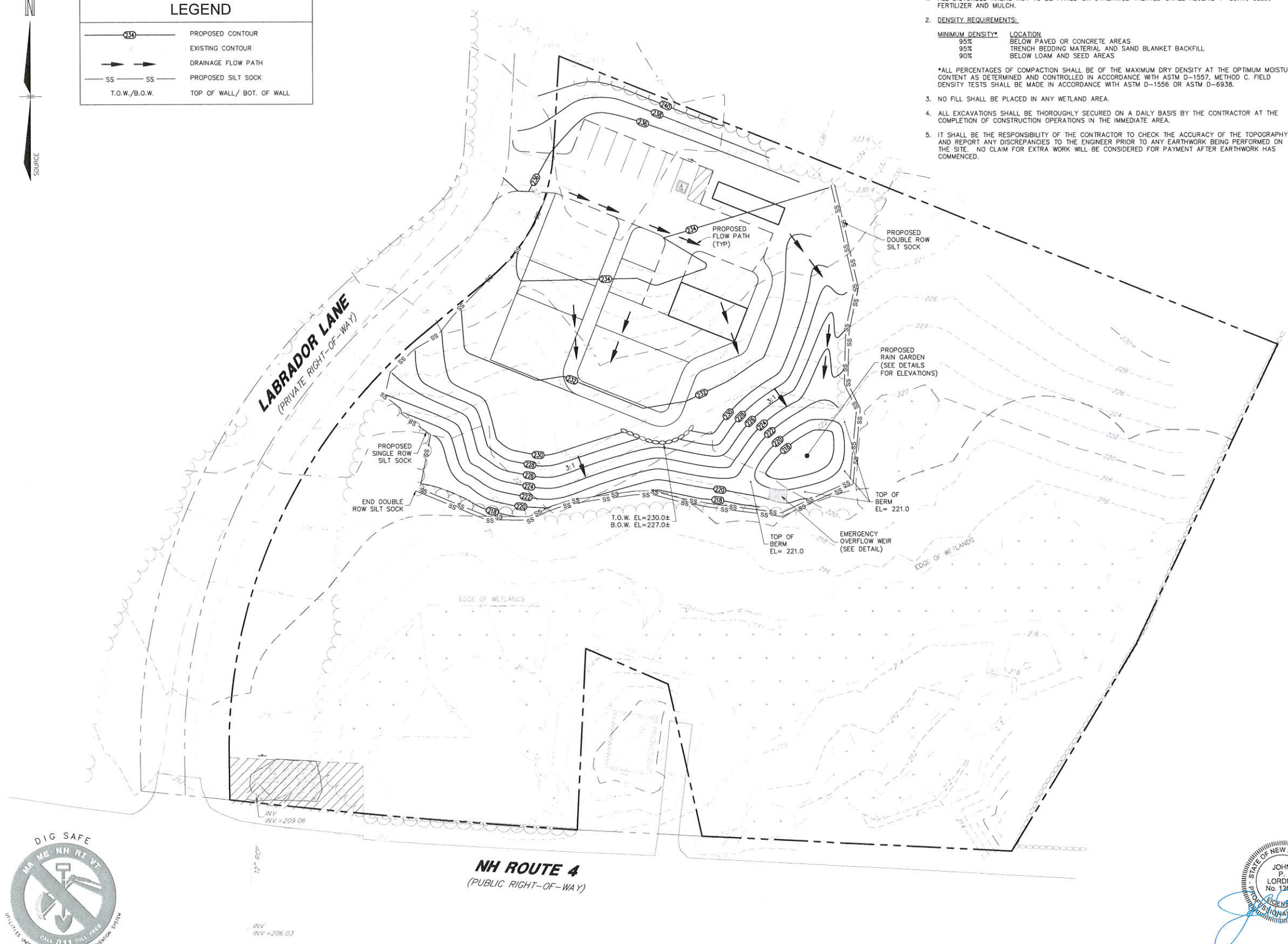
\*ALL PERCENTAGES OF COMPACTION SHALL BE OF THE MAXIMUM DRY DENSITY AT THE OPTIMUM MOISTURE CONTENT AS DETERMINED AND CONTROLLED IN ACCORDANCE WITH ASTM D-1557, METHOD C. FIELD DENSITY TESTS SHALL BE MADE IN ACCORDANCE WITH ASTM D-1556 OR ASTM D-6938.
- NO FILL SHALL BE PLACED IN ANY WETLAND AREA.
- ALL EXCAVATIONS SHALL BE THOROUGHLY SECURED ON A DAILY BASIS BY THE CONTRACTOR AT THE COMPLETION OF CONSTRUCTION OPERATIONS IN THE IMMEDIATE AREA.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CHECK THE ACCURACY OF THE TOPOGRAPHY AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO ANY EARTHWORK BEING PERFORMED ON THE SITE. NO CLAIM FOR EXTRA WORK WILL BE CONSIDERED FOR PAYMENT AFTER EARTHWORK HAS COMMENCED.

**EROSION CONTROL NOTES**

- INSTALL SILT BARRIER ALONG THE PERIMETER OF THE AREA TO BE DISTURBED AS FIRST ORDER OF WORK.
- SILT PROTECTION MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAILS CONTAINED IN THIS PLAN SET.
- CONSTRUCT JUTE MATTING ON ALL SLOPES STEEPER THAN 3:1, DISTURBED AREAS SLOPING TOWARDS WETLANDS AND ALL LOCATIONS SHOWN ON PLAN.
- INSPECT EROSION CONTROL MEASURES WEEKLY AND AFTER EACH RAIN STORM OF 0.10 INCH OR GREATER. REPAIR/MODIFY SILT BARRIER AS NECESSARY TO MAXIMIZE FILTER EFFICIENCY. REMOVE SEDIMENT WHEN SEDIMENT IS 1/3 THE STRUCTURE HEIGHT.
- PROVIDE SILT BARRIERS AT THE BASE OF CUT AND FILL SLOPES UNTIL COMPLETION OF THE PROJECT OR UNTIL VEGETATION BECOMES ESTABLISHED ON SLOPES. EROSION PROTECTION BELOW FILL SLOPES SHALL BE PLACED IMMEDIATELY AFTER CLEARING, PRIOR TO EMBANKMENT CONSTRUCTION.
- ALL DISTURBED AREAS SHALL BE REVEGETATED AS QUICKLY AS POSSIBLE. ALL CUT AND FILL SLOPES SHALL BE SEEDED WITHIN 72 HOURS AFTER GRADING.
- ALL WORK AREAS TO BE STABILIZED AT THE END OF EACH WORK DAY AND PRIOR TO ANY PREDICTED SIGNIFICANT RAIN EVENT.
- AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:
  - BASE COURSE GRAVELS ARE 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
  - EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED
- CONTRACTOR IS RESPONSIBLE FOR MAINTAINING SLOPE STABILITY DURING CONSTRUCTION.
- THE EROSION CONTROL PRACTICES SHOWN ON THESE PLANS ARE ILLUSTRATIVE ONLY AND SHALL BE SUPPLEMENTED BY THE SITE CONTRACTOR AS NEEDED.

**CONSTRUCTION SEQUENCE**

- TO MINIMIZE EROSION AND SEDIMENTATION DUE TO CONSTRUCTION, CONSTRUCTION SHALL FOLLOW THIS GENERAL CONSTRUCTION SEQUENCE. MODIFICATIONS TO THE SEQUENCE NECESSARY DUE TO THE CONTRACTOR'S SCHEDULE SHALL INCLUDE APPROPRIATE TEMPORARY AND PERMANENT EROSION AND SEDIMENTATION CONTROL MEASURES.
- THE CONTRACTOR SHALL SCHEDULE WORK SUCH THAT ANY CONSTRUCTION AREA IS STABILIZED WITHIN 45 DAYS OF INITIAL DISTURBANCE EXCEPT AS NOTED BELOW.
- INSTALL ALL PERIMETER EROSION PROTECTION MEASURES AS INDICATED ON THE PLANS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
  - DURING CONSTRUCTION EVERY EFFORT SHALL BE MADE TO MANAGE SURFACE RUNOFF QUALITY.
  - DAILY, OR AS REQUIRED, CONSTRUCT TEMPORARY BERMS, DRAINS, DITCHES, SILT BARRIERS, SEDIMENT TRAPS, ETC. MULCH AND SEED AS REQUIRED (TEMPORARY SEED MIXTURE OF WINTER RYE APPLIED AT A RATE OF 2.5 LBS/1000 SF SHALL BE USED).
  - CONDUCT MAJOR EARTHWORK, INCLUDING CLEARING AND GRUBBING, WITHIN THE LIMITS OF WORK. ALL CUT AND FILL SLOPES SHALL BE SEEDED WITHIN 72 HOURS AFTER GRADING.
  - ALL STRIPPED TOPSOIL AND OTHER EARTH MATERIALS SHALL BE STOCKPILED OUTSIDE THE IMMEDIATE WORK AND WETLAND AREAS. A SILT BARRIER SHALL BE CONSTRUCTED AROUND THESE PILES IN A MANNER TO PROVIDE ACCESS AND AVOID SEDIMENT OUTSIDE OF THE WORK AREA.
  - CONSTRUCT TEMPORARY CULVERTS AND DIVERSIONS AS REQUIRED.
  - BEGIN PERMANENT AND TEMPORARY INSTALLATION OF SEED AND MULCH.
  - PERFORM EARTHWORK NECESSARY TO ESTABLISH ROUGH GRADING AROUND PARKING AREA. MANAGE EXPOSED SOIL SURFACES TO AVOID TRANSPORTING SEDIMENTS INTO WETLANDS.
  - COMPLETE SEEDING AND MULCHING. SEED TO BE APPLIED WITH BROADCAST SPREADER OR BY HYDRO-SEEDING, THEN ROLLED, RAKED OR DRAGGED TO ASSURE SEED/SOIL CONTACT.
  - REMOVE TEMPORARY EROSION CONTROL MEASURES AFTER SEEDED AREAS HAVE BECOME FIRMLY ESTABLISHED AND SITE IMPROVEMENTS ARE COMPLETE.
  - DURING THE COURSE OF THE WORK AND UPON COMPLETION, THE CONTRACTOR SHALL REMOVE ALL SEDIMENT DEPOSITS, EITHER ON OR OFF SITE, INCLUDING CATCH BASINS AND SUMPS, DRAIN PIPES AND DITCHES, CURB LINES, ALONG SILT BARRIERS, ETC. RESULTING FROM SOIL AND/OR CONSTRUCTION OPERATIONS.
  - SEE WINTER CONSTRUCTION SEQUENCE FOR WORK CONDUCTED AFTER OCTOBER 15TH.

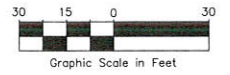


Oct 11, 2017 12:14pm  
 F:\MSC Projects\47249 - Labrador Lane - Barrington\47249 00 - CSD - Phillips - Labrador Lane Design\Production Drawings\47249 00\_C3\_Grading-Drainage-Erosion.dwg

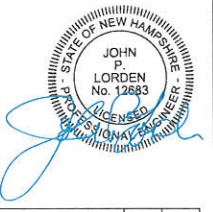


CONTACT DIG SAFE 72 BUSINESS HOURS PRIOR TO CONSTRUCTION

Copyright 2017 © Thomas F. Moran, Inc.  
 48 Constitution Drive, Bedford, N.H. 03110  
 All rights reserved. These plans and materials may not be copied, duplicated, replicated or otherwise reproduced in any form whatsoever without the prior written permission of Thomas F. Moran, Inc.  
 This plan is not effective unless signed by a duly authorized officer of Thomas F. Moran, Inc.



REV.	DATE	DESCRIPTION	DR	CK



TAX MAP 270 LOT 66-3  
**GRADING, DRAINAGE & EROSION CONTROL PLAN**  
**HEIDLEBERG FARMS**  
**LABRADOR LANE**  
**BARRINGTON, NEW HAMPSHIRE**  
**COUNTY OF STRAFFORD**  
 OWNED BY  
**STEPHEN B. PHILLIPS**

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

**OCTOBER 11, 2017**

<b>TFM</b>	<b>MSC</b>	Civil Engineers	170 Commerce Way, Suite 102
		Structural Engineers	Portsmouth, NH 03801
		Traffic Engineers	Phone (603) 431-2222
		Land Surveyors	Fax (603) 431-0910
		Landscape Architects	www.TFMoran.com
		Scientists	

47249 00	DR	CWG	FB	Grade-Drain-EC.dwg	C-3
	CK	JPL	CADFILE		



SOIL CHARACTERISTICS

THE SOIL IN THE VICINITY OF THE SITE CONSIST OF CHARLTON FINE SANDY LOAM, THE MAJORITY OF THE SOIL IS HSG TYPE B

DISTURBED AREA

THE TOTAL AREA TO BE DISTURBED IS APPROXIMATELY 40,500 SQUARE FEET.

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

SEQUENCE OF MAJOR ACTIVITIES

- 1. INSTALL TEMPORARY EROSION CONTROL MEASURES.
2. DEMOLISH EXISTING SITE WORK DESIGNATED FOR REMOVAL.
3. COMPLETE MAJOR GRADING OF SITE.
4. CONSTRUCT STORMWATER SYSTEM
5. CONSTRUCT PARKING LOT.
6. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND SITE IS STABILIZED, REMOVE ALL INLET PROTECTION, SILT BARRIERS AND SEDIMENT THAT HAS BEEN TRAPPED BY THESE DEVICES.

EROSION AND SEDIMENT CONTROLS AND STABILIZATION PRACTICES

STABILIZATION SHALL BE INITIATED ON ALL LOAM STOCKPILES AND DISTURBED AREAS WHERE CONSTRUCTION ACTIVITY WILL NOT OCCUR FOR MORE THAN TWENTY ONE (21) CALENDAR DAYS BY THE FOURTEENTH (14TH) DAY AFTER CONSTRUCTION ACTIVITY HAS PERMANENTLY OR TEMPORARILY CEASED IN THAT AREA.

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

DURING CONSTRUCTION, RUNOFF WILL BE DIVERTED AROUND THE SITE WITH EARTH DIKES, PIPING OR STABILIZED CHANNELS WHERE POSSIBLE. SHEET RUNOFF FROM THE SITE WILL BE FILTERED THROUGH SILT BARRIERS.

INSTALLATION, MAINTENANCE AND INSPECTION OF EROSION AND SEDIMENT CONTROLS

A. GENERAL

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

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

B. FILTERS / BARRIERS

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

Table with 3 columns: PHYSICAL PROPERTY, TEST, REQUIREMENTS. Rows include PARTICLE SIZE, MOISTURE CONTENT, and MATERIAL specifications.

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

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

3. MAINTENANCE

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

C. MULCHING

1. TIMING

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

- A. APPLY MULCH PRIOR TO ANY STORM EVENT.

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

- B. REQUIRED MULCHING WITHIN A SPECIFIED TIME PERIOD.

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

- 2. GUIDELINES FOR WINTER MULCH APPLICATION.

WHEN MULCH IS APPLIED TO PROVIDE PROTECTION OVER WINTER (PAST THE GROWING SEASON) IT SHALL BE AT A RATE OF 5,000 POUNDS OF HAY OR STRAW PER ACRE. A TACKIFIER MAY BE ADDED TO THE MULCH.

- 3. MAINTENANCE

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

D. VEGETATIVE PRACTICE

- 1. AFTER ROUGH GRADING OF THE SUBGRADE HAS BEEN COMPLETED AND APPROVED, THE SUB GRADE SURFACE SHALL BE SCARIFIED TO A DEPTH OF FOUR INCHES. THEN, FURNISH AND INSTALL A LAYER OF LOAM PROVIDING A ROLLED THICKNESS AS SPECIFIED IN THESE PLANS. ANY DEPRESSIONS WHICH MAY OCCUR DURING ROLLING SHALL BE FILLED WITH ADDITIONAL LOAM, REGRADED AND ROLLED UNTIL THE SURFACE IS TRUE TO THE FINISHED LINES AND GRADES.
2. ALL LARGE STIFF CLOUDS, LUMPS, BRUSH, ROOTS, DEBRIS, GLASS, STUMPS, LITTER AND OTHER FOREIGN MATERIAL, AS WELL AS STONES OVER ONE INCH IN DIAMETER, SHALL BE REMOVED FROM THE LOAM AND DISPOSED OF OFF SITE.
3. THE LOAM SHALL BE PREPARED TO RECEIVE SEED BY REMOVING STONES, FOREIGN OBJECTS AND GRADING TO ELIMINATE WATER POCKETS AND IRREGULARITIES PRIOR TO PLACING SEED.
4. SHAPE THE AREAS TO THE LINES AND GRADES REQUIRED. THE SITE SUBCONTRACTOR'S ATTENTION IS DIRECTED TO THE SCHEDULING OF LOAMING AND SEEDING OF GRADED AREAS TO PERMIT SUFFICIENT TIME FOR THE STABILIZATION OF THESE AREAS.
5. ALL AREAS DISTURBED BY CONSTRUCTION WITHIN THE PROPERTY LINES AND NOT COVERED BY STRUCTURES, PAVEMENT, OR MULCH SHALL BE LOAMED AND SEEDED.
6. LIMESTONE SHALL BE THOROUGHLY INCORPORATED INTO THE LOAM LAYER AT A RATE OF 2 TONS PER ACRE IN ORDER TO PROVIDE A PH VALUE OF 5.5 TO 6.5.
7. FERTILIZER SHALL BE SPREAD ON THE TOP LAYER OF LOAM AND WORKED INTO THE SURFACE.
8. SOIL CONDITIONERS AND FERTILIZER SHALL BE APPLIED AT THE RECOMMENDED RATES AND SHALL BE THOROUGHLY WORKED INTO THE LOAM.
9. SEED SHALL BE SOWN AT THE RATE SHOWN BELOW.
10. HAY MULCH SHALL BE APPLIED IMMEDIATELY AFTER SEEDING AT A RATE OF 1.5 TO 2 TONS PER ACRE.
11. THE SURFACE SHALL BE WATERED AND KEPT MOIST WITH A FINE SPRAY AS REQUIRED.
12. THE SITE SUBCONTRACTOR SHALL PROTECT AND MAINTAIN THE SEEDED AREAS UNTIL ACCEPTED.
13. UNLESS OTHERWISE APPROVED, SEEDING SHALL BE DONE DURING THE APPROXIMATE PERIODS OF EARLY SPRING TO SEPTEMBER 30.

- A. FOLLOW ABOVE SLOPE, LOAM DEPTH AND GRADING REQUIREMENTS.
B. FERTILIZER SHALL BE SPREAD AND WORKED INTO THE SURFACE AT A RATE OF 300 POUNDS PER ACRE.

MULCHING AND SEEDING SHALL BE APPLIED AT THE FOLLOWING RATES:
WINTER RYE (FALL SEEDING) 2.5 LBS/1,000 SF
OATS (SPRING SEEDING) 2.0 LBS/1,000 SF
MULCH 1.5 TONS/ACRE

E. WINTER CONSTRUCTION SEQUENCE

- 1. ALL PROPOSED POST-DEVELOPMENT LANDSCAPED AREAS WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED BY SEEDING AND INSTALLING EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 3:1 AND SEEDING AND PLACING 3 TO 4 TONS OF MULCH PER ACRE.
2. ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS.
3. AFTER NOVEMBER 15TH, ALL TRAVEL SURFACES SHALL BE PROTECTED WITH A MINIMUM OF 3-INCHES OF CRUSHED GRAVEL PER NHDOT ITEM 304.3, OR IF CONSTRUCTION IS TO CONTINUE THROUGH THE WINTER SEASON BE CLEARED OF ANY ACCUMULATED SNOWFALL AFTER EACH STORM EVENT.

TIMING OF CONTROLS/MEASURES

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

WASTE DISPOSAL

- 1. WASTE MATERIALS
ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN SECURELY LIDDED RECEPTACLES.
2. HAZARDOUS WASTE
ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER.
3. SANITARY WASTE
ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF ONCE PER WEEK BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR.

SPILL PREVENTION

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

- A. AN EFFORT WILL BE MADE TO STORE ONLY SUFFICIENT AMOUNTS OF PRODUCTS TO DO THE JOB.
B. ALL MATERIALS STORED ON SITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR PROPER (ORIGINAL IF POSSIBLE) CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.
C. MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.
D. THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS.
E. SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.
F. WHENEVER POSSIBLE ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER.

HAZARDOUS PRODUCTS: THE FOLLOWING PRACTICES WILL BE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS:

- A. PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.
B. ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED FOR IMPORTANT PRODUCT INFORMATION.
C. SURPLUS PRODUCT THAT MUST BE DISPOSED OF WILL BE DISCARDED ACCORDING TO THE MANUFACTURER'S RECOMMENDED METHODS OF DISPOSAL.

- 2. PRODUCT SPECIFICATION PRACTICES
THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ON SITE:

PETROLEUM PRODUCTS: ALL ON SITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT BASED SUBSTANCES USED ON SITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

FERTILIZERS: FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS DIRECTED BY THE SPECIFICATIONS. ONCE APPLIED FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORMWATER. STORAGE WILL BE IN A COVERED SHED OR ENCLOSED TRAILERS. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.

PAINTS: ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE DISPOSED OF PROPERLY ACCORDING TO MANUFACTURER'S INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.

CONCRETE TRUCKS: CONCRETE TRUCKS WILL DISCHARGE AND WASH OUT SURPLUS CONCRETE OR DRUM WASH WATER IN A CONTAINED AREA DESIGNATED ON SITE.

SPILL CONTROL PRACTICES

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

- A. MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.
B. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ON SITE.
C. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.
D. THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.
E. SPILLS OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE.
F. THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM RECURRING AND HOW TO CLEANUP THE SPILL IF IT RECURS.
G. THE SITE SUPERINTENDENT RESPONSIBLE FOR DAY-TO-DAY SITE OPERATIONS WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR.

DUST CONTROL

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

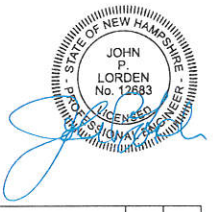
Oct 11, 2017 - 12:18pm F:\MISC Projects\47249 - Labrador Lane - Barrington\47249.00 - C30 - Phillips - Labrador Lane Design\Production Drawings\47249.00 - C-4-5\_Details.dwg



CONTACT DIG SAFE 72 BUSINESS HOURS PRIOR TO CONSTRUCTION

Copyright 2017 © Thomas F. Moran, Inc. All rights reserved. This plan is not effective unless signed by a duly authorized officer of Thomas F. Moran, Inc.

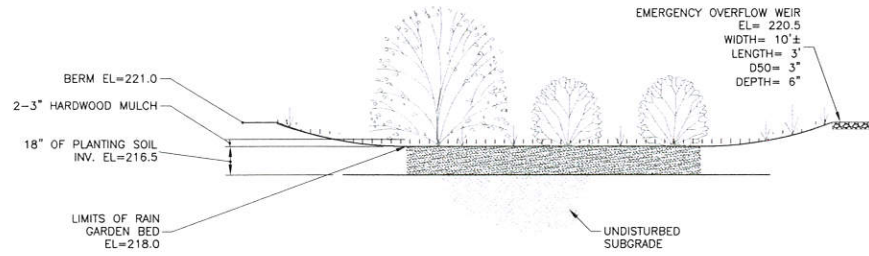
TAX MAP 270 LOT 66-3
EROSION CONTROL NOTES & DETAILS
HEIDLEBERG FARMS
LABRADOR LANE
BARRINGTON, NEW HAMPSHIRE
COUNTY OF STRAFFORD
OWNED BY
STEPHEN B. PHILLIPS
NOT TO SCALE OCTOBER 11, 2017



TFM logo, MSC logo, Civil Engineers, Structural Engineers, Traffic Engineers, Land Surveyors, Landscape Architects, Scientists. 170 Commerce Way, Suite 102, Portsmouth, NH 03801

Table with columns: REV, DATE, DESCRIPTION, DR, CK. Row 1: 47249.00, DR, JRW, FB, CADFILE, Details.dwg





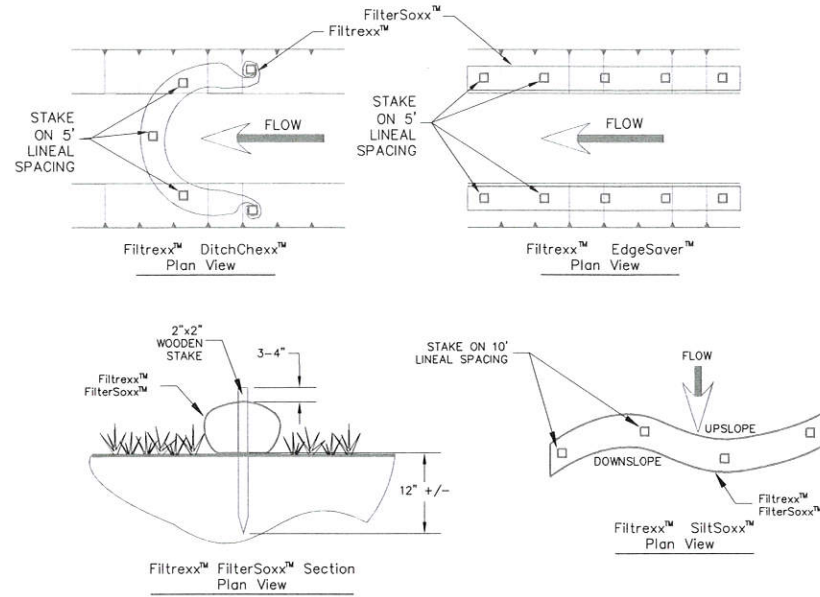
**RAIN GARDEN DETAIL**  
NOT TO SCALE

**RAIN GARDEN CONSTRUCTION**

1. CLEAR AND GRUB THE AREA WHERE THE RAIN GARDEN AREAS ARE TO BE LOCATED. STOCKPILE LOAM FOR REUSE ON SLOPES.
2. GRADE RAIN GARDEN AREAS ACCORDING TO PLAN AND DETAILS.
3. THE CONTRACTOR SHALL TAKE MEASURES TO PREVENT EQUIPMENT & VEHICLE TRAFFIC FROM DRIVING IN THE AREA OF THE PROPOSED RAIN GARDEN AREA DURING CONSTRUCTION.
4. RAIN GARDEN PLANTINGS SHALL BE NATIVE, WATER TOLERANT SPECIES.

**RAIN GARDEN MAINTENANCE**

- MAINTENANCE SCHEDULE TO BEGIN AFTER CONSTRUCTION IS FINISHED AND BASIN STABILIZATION IS COMPLETE.
1. VEGETATION - THE VEGETATED AREAS SHALL BE PROTECTED FROM DAMAGE BY TRAFFIC AND DENSE WEED GROWTH. A MINIMUM OF 2 TONS PER ACRE OF AGRICULTURAL LIMESTONE SHALL BE APPLIED.
  2. SEDIMENT - SEDIMENT SHALL BE CONTINUALLY CHECKED IN RAIN GARDEN AREAS. WHEN SEDIMENT ACCUMULATIONS LINE THE BOTTOM OF THE FACILITY, THEN THE SEDIMENT SHALL BE REMOVED AND PROPERLY DISPOSED OF.
  3. PLANTINGS - SHALL BE INSPECTED SEASONALLY TO DETERMINE HEALTH. IF DETERMINED TO BE NOT IN ADEQUATE SHAPE THE PLANTING SHALL BE REMOVED AND REPLANTED WITH THE SAME SPECIES. PROPER MAINTENANCE OF PLANTS SHALL BE CARRIED OUT AS NEEDED.
  4. REPAIR ANY ERODED AREA OF THE RAIN GARDEN AREA BOTTOMS WITH APPROPRIATE MULCH. MULCH FOR RAIN GARDEN AREAS AND SIDE SLOPES SHALL BE HARDWOOD OR CYPRESS MULCH.

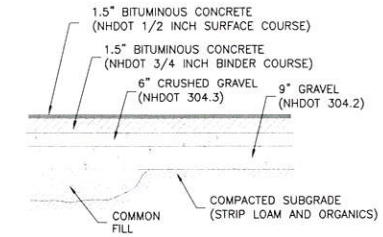


- NOTES:**
1. ALL MATERIAL TO MEET Filtrex SPECIFICATIONS
  2. FilterSoxx COMPOST/SOIL/ROCK/SEED FILL TO MEET APPLICATION REQUIREMENTS.
  3. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.

**Filtrex™ FilterSoxx™  
Staking**  
NOT TO SCALE

**NOTES**

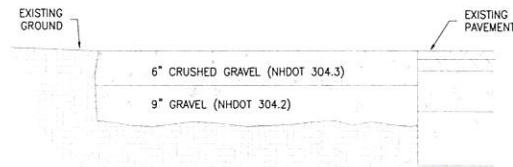
1. SEE DRAINAGE & GRADING & EROSION CONTROL PLAN FOR PAVEMENT SLOPE AND CROSS-SLOPE.
2. REMOVE ALL LOAM AND/OR YIELDING MATERIAL BELOW PAVEMENT.
3. BITUMINOUS MATERIALS SHALL CONFORM TO NHDOT SPECIFICATION SECTION 401.
4. BITUMINOUS CONCRETE SHALL BE COMPACTED TO AT LEAST 92.5% OF THEORETICAL MAXIMUM DENSITY AS DETERMINED BY ASTM D2041 OR AASHTO T209. PLACEMENT TEMPERATURES OF BITUMINOUS CONCRETE MIXES, IN GENERAL, RANGE BETWEEN 270 AND 310 DEGREES FAHRENHEIT.
5. PAVEMENT BASE COURSE AGGREGATE SHALL CONFORM TO NHDOT SPECIFICATION SECTION 304, ITEM 304.3 AND COMPACTED TO A MINIMUM OF 95% OF MODIFIED PROCTOR MAXIMUM DRY DENSITY.
6. PAVEMENT SUBBASE COURSE AGGREGATE AND AGGREGATE FOR SUBGRADE REPAIR AREAS SHALL BE SUITABLE FOR USE AS STRUCTURAL FILL AND BE PROOF ROLLED AND COMPACTED TO 95% MODIFIED PROCTOR MAXIMUM DRY DENSITY.
7. THE EXPOSED SOIL SUBGRADE SHOULD BE PROOF ROLLED PRIOR TO THE PLACEMENT OF SUBBASE GRAVEL, AND SOFT AREAS SHOULD BE REPAIRED AND REPLACED.
8. ONLY THE ACCESSIBLE PARKING SPACES SHALL BE STANDARD DUTY PAVEMENT. THE REMAINDER OF THE SPACES ARE TO BE GRAVEL.



**STANDARD DUTY PAVEMENT**

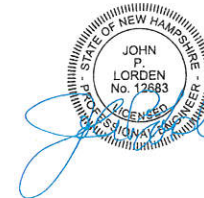
**ACCESSIBLE PARKING  
PAVEMENT SECTION**

NOT TO SCALE



**STANDARD GRAVEL PARKING AREA**

NOT TO SCALE



TAX MAP 270 LOT 66-3

**DETAILS**

**HEIDLEBERG FARMS**

**LABRADOR LANE**

**BARRINGTON, NEW HAMPSHIRE**

**COUNTY OF STRAFFORD**

OWNED BY

**STEPHEN B. PHILLIPS**

NOT TO SCALE

OCTOBER 11, 2017

**TFM** **MSC**

Civil Engineers  
Structural Engineers  
Traffic Engineers  
Land Surveyors  
Landscape Architects  
Scientists

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

FILE 47249.00 DR JRW FB  
CK JPL CADFILE Details.dwg C-5

REV.	DATE	DESCRIPTION	DR	CK

Oct 11, 2017 - 12:20pm F:\MISC Projects\47249 - Labrador Lane - Barrington\47249.01 - C3D - Phillips - Labrador Lane Design\Production Drawings\47249.00 - C4-S\_Details.dwg



CONTACT DIG SAFE 72 BUSINESS HOURS PRIOR TO CONSTRUCTION

Copyright 2017 © Thomas F. Moran, Inc.  
48 Constitution Drive, Bedford, N.H. 03110  
All rights reserved. These plans and materials may not be copied, duplicated, replicated or otherwise reproduced in any form whatsoever without the prior written permission of Thomas F. Moran, Inc.  
This plan is not effective unless signed by a duly authorized officer of Thomas F. Moran, Inc.