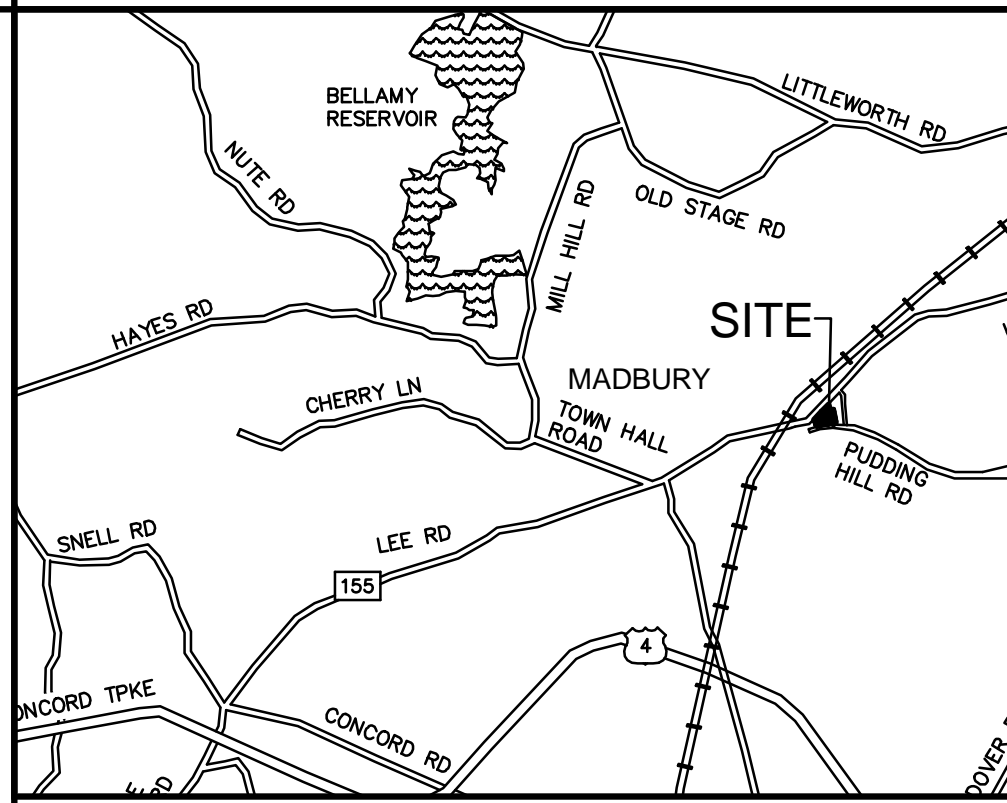


THESE PLANS ARE PERMIT DRAWINGS ONLY AND NOT INTENDED FOR CONSTRUCTION OR BIDDING



LOCATION PLAN

# AMENDED SITE DEVELOPMENT PLANS CARRIAGE HILL ASSISTED LIVING

304 KNOX MARSH ROAD  
MADBURY, NEW HAMPSHIRE

JANUARY 27, 2014

**PROPERTY OWNER:**

MAP 9 LOT 8 AND 8A  
JASON W. BERNDTSON  
123 DOVER ROAD  
DURHAM, NH 03824

PERMITS REQUIRED

NHDES SUBSURFACE CONSTRUCTION PERMIT . . . . .	PENDING
EPA NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM . . . . .	REQUIRED
NHDOT DRIVEWAY PERMIT . . . . .	PENDING

STATUS

**CIVIL ENGINEER/LAND SURVEYOR:**

NORWAY PLAINS ASSOCIATES, INC.  
P.O. BOX 249  
2 CONTINENTAL BOULEVARD  
ROCHESTER, NH 03866-0249  
(603)-335-3948

IN ASSOCIATION WITH

**ARCHITECT:**

TONY FALLON ARCHITECTURE  
501 BARN DOOR GAP  
STRAFFORD, NH 03884-6233  
(603) 269-3206

**ENVIRONMENTAL CONSULTANT:**

GOVE ENVIRONMENTAL SERVICES, INC.  
8 CONTINENTAL DRIVE, BUILDING 2, UNIT H  
EXETER, NH 03833-7507  
(603) 778-0644

**LANDSCAPE ARCHITECT:**

HBLA INC.  
170 COMMERCE WAY, SUITE 102  
PORTSMOUTH, NH 03801  
(603) 431-4000

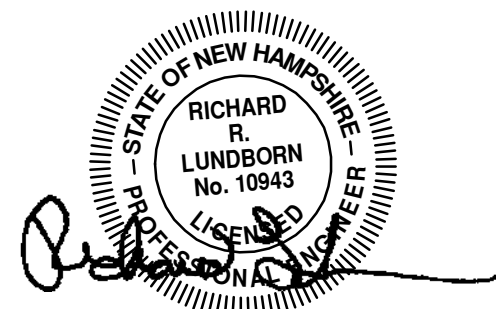
PLAN INDEX

SHEET #

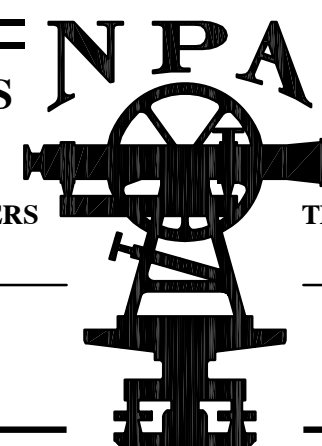
EXISTING FEATURES PLAN . . . . .	C-001
SITE PLAN . . . . .	C-002
GRADING, DRAINAGE & EROSION CONTROL PLAN . . . . .	C-003
LANDSCAPE PLAN . . . . .	C-004
UTILITY PLAN . . . . .	C-005
DETAILS . . . . .	C-006 & C-007

FILE NO:	303
JOB NO:	14010
F.B. NO:	MSC
PLAN NO:	C-2691
SCRD NO:	
DRAWN BY:	RRL
CHECK BY:	RRL
DWG NO:	COVER

NO.	REVISION	DATE



NORWAY PLAINS ASSOCIATES, INC.  
SURVEYORS  
SEPTIC SYSTEM DESIGNERS  
ALTON  
31 Mooney Street  
Alton, NH 03809  
(603) 875-3948  
www.norwayplains.com



ASSOCIATES, INC.  
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Rochester, NH 03866-0249  
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AMMENDED SITE DEVELOPMENT PLAN  
PROPERTY OF  
JASON W. BERNDTSON  
123 DOVER ROAD  
DURHAM, NH 03824  
SCRD: BK 3141, PG 848 & BK 3068, PG 199

CARRIAGE HILL ASSISTED LIVING  
TAX MAP 9 LOTS 8 & 8A  
304 & 306 KNOX MARSH ROAD/RTE. 155  
MADBURY, NEW HAMPSHIRE  
STRAFFORD COUNTY

REV: 01-27-14

**COVER**

**LEGEND**

- BK.2562/PG.2783 BOOK NO./PAGE NO.
- ELEV. ELEVATION
- EP EDGE OF PAVEMENT
- INV. INVERT
- NAVDB8 NORTH AMERICAN VERTICAL DATUM OF 1988
- N/F NOW OR FORMERLY
- PSNH PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE
- RCP REINFORCED CONCRETE PIPE
- SCRD STRAFFORD COUNTY REGISTRY OF DEEDS
- S.F. SQUARE FEET
- TBM TEMPORARY BENCH MARK
- UGU UNDERGROUND UTILITIES
- MAP/LOT ASSESSORS MAP & PARCEL NUMBER
- PROPERTY LINE
- TREE LINE
- OHU OVERHEAD UTILITIES
- EXISTING DRAINAGE
- EXISTING CONTOUR
- 120 HIGH INTENSITY SOIL BOUNDARY LINE
- UTILITY POLE
- IRON PIPE
- GUY POLE
- SIGN
- WELL
- DRAINAGE MANHOLE
- TEST PIT
- RIPRAP
- GRAVEL

- HIGH INTENSITY MAP SYMBOL 523BH**
- DRAINAGE CLASS 5**
- Excessively drained.
  - Well drained.
  - Moderately well drained.
  - Somewhat poorly drained.
  - Poorly drained.
  - Very poorly drained.
  - Not determinable.
- PARENT MATERIAL 2**
- Glacioluvial.
  - Glacial till.
  - Marine or glaciolacustrine very fine sand and silt.
  - Marine or glaciolacustrine loamy/sandy over all/clay.
  - Marine or glaciolacustrine silt and clay.
  - Excavated, regraded, or filled.
  - Alluvial deposits.
  - Bedrock present 20-40 in. below the mineral soil surface.
  - Depth to bedrock variable.
  - Organic materials tidal marsh.
- RESTRICTIVE FEATURE 3**
- None.
  - Bouldery, with more than 15% of surface covered.
  - Mineral restrictive layer(s) are present at less than 40 in. depth.
  - Bedrock 0 in. to 20 in. depth.
  - Subject to flooding.
  - Does not meet fill standards.
  - Bedrock present 20-40 in. below the mineral soil surface.
  - Depth to bedrock variable.
  - Complex of soil types.

High Intensity Map Symbol 523BH indicates a poorly drained glacial till soil with a restrictive feature, on a slope of 0 to 8%.

Developed from Society of Soil Scientists of Northern New England. "Special Publication No.1 High Intensity Soil Maps for New Hampshire Standards and Origins"

MAP 7 LOT 19  
N/F  
MICHELLE ELLIS  
311 KNOX MARSH ROAD  
MADbury, NH 03823

MAP 9 LOT 9  
N/F  
JANET WALL  
9 KELLEY ROAD  
MADbury, NH 03823

MAP 8 LOT 4  
N/F  
BRUCE HARDENBROOK  
ATTN. BRUCE AND JANET HARDENBROOK  
8 KELLEY ROAD  
MADbury, NH 03823

MAP 7 LOT 20  
N/F  
SIDMORE REVOCABLE TRUST  
ATTN. PHILIP & EVELYN SIDMORE  
8 CEDAR POINT ROAD  
DURHAM, NH 03824

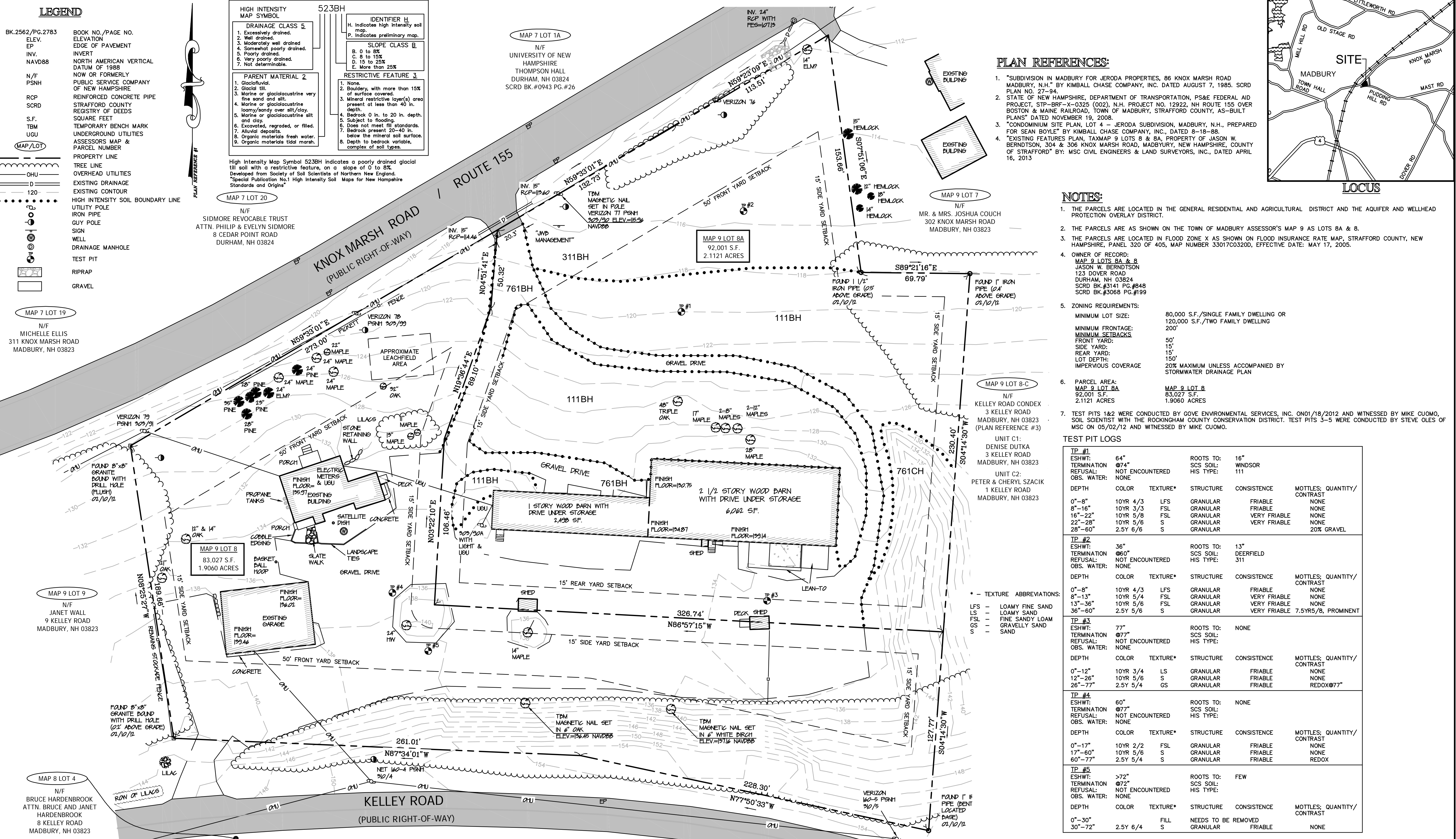
MAP 7 LOT 1A  
N/F  
UNIVERSITY OF NEW HAMPSHIRE  
THOMPSON HALL  
DURHAM, NH 03824  
SCRD BK.#0943 PG.#26

MAP 9 LOT 7  
N/F  
MR. & MRS. JOSHUA COUCH  
302 KNOX MARSH ROAD  
MADbury, NH 03823

MAP 9 LOT 8-C  
N/F  
KELLEY ROAD CONDEX  
3 KELLEY ROAD  
MADbury, NH 03823  
(PLAN REFERENCE #3)

UNIT C1:  
DENISE DUTKA  
3 KELLEY ROAD  
MADbury, NH 03823

UNIT C2:  
PETER & CHERYL SZACKI  
1 KELLEY ROAD  
MADbury, NH 03823



**PLAN REFERENCES:**

- "SUBDIVISION IN MADbury FOR JERODA PROPERTIES, 86 KNOX MARSH ROAD MADbury, N.H." BY KIMBALL CHASE COMPANY, INC. DATED AUGUST 7, 1985. SCRD PLAN NO. 27-94.
- STATE OF NEW HAMPSHIRE, DEPARTMENT OF TRANSPORTATION, PS&E FEDERAL AID PROJECT, STP-BRF-X-0325 (002), N.H. PROJECT NO. 12922, NH ROUTE 155 OVER BOSTON & MAINE RAILROAD, TOWN OF MADbury, STRAFFORD COUNTY, AS-BUILT PLANS" DATED NOVEMBER 19, 2008.
- "CONDOMINIUM SITE PLAN, LOT 4 - JERODA SUBDIVISION, MADbury, N.H., PREPARED FOR SEAN BOYLE" BY KIMBALL CHASE COMPANY, INC., DATED 8-18-88.
- "EXISTING FEATURES PLAN, TAXMAP 9 LOTS 8 & 8A, PROPERTY OF JASON W. BERNDTSON, 304 & 306 KNOX MARSH ROAD, MADbury, NEW HAMPSHIRE, COUNTY OF STRAFFORD" BY: MSC CIVIL ENGINEERS & LAND SURVEYORS, INC., DATED APRIL 16, 2013

**NOTES:**

- THE PARCELS ARE LOCATED IN THE GENERAL RESIDENTIAL AND AGRICULTURAL DISTRICT AND THE AQUIFER AND WELLHEAD PROTECTION OVERLAY DISTRICT.
- THE PARCELS ARE AS SHOWN ON THE TOWN OF MADbury ASSESSOR'S MAP 9 AS LOTS 8A & 8.
- THE PARCELS ARE LOCATED IN FLOOD ZONE X AS SHOWN ON FLOOD INSURANCE RATE MAP, STRAFFORD COUNTY, NEW HAMPSHIRE, PANEL 320 OF 405, MAP NUMBER 33017C0320D, EFFECTIVE DATE: MAY 17, 2005.
- OWNER OF RECORD: MAP 9 LOTS 8A & 8 JASON W. BERNDTSON 123 DOVER ROAD DURHAM, NH 03824 SCRD BK.#3141 PG.#848 SCRD BK.#3068 PG.#199
- ZONING REQUIREMENTS:
  - MINIMUM LOT SIZE: 80,000 S.F./SINGLE FAMILY DWELLING OR 120,000 S.F./TWO FAMILY DWELLING
  - MINIMUM FRONTAGE: 200'
  - MINIMUM SETBACKS:
    - FRONT YARD: 50'
    - SIDE YARD: 15'
    - REAR YARD: 15'
    - LOT DEPTH: 150'
    - IMPERVIOUS COVERAGE: 20% MAXIMUM UNLESS ACCOMPANIED BY STORMWATER DRAINAGE PLAN
- PARCEL AREA:
  - MAP 9 LOT 8A: 92,001 S.F., 2.1121 ACRES
  - MAP 9 LOT 8: 83,027 S.F., 1.9060 ACRES
- TEST PITS 1&2 WERE CONDUCTED BY GOVE ENVIRONMENTAL SERVICES, INC. ON 01/18/2012 AND WITNESSED BY MIKE CUOMO, COUNTY SOIL SCIENTIST WITH THE ROCKINGHAM COUNTY CONSERVATION DISTRICT. TEST PITS 3-5 WERE CONDUCTED BY STEVE OLES OF MSC ON 05/02/12 AND WITNESSED BY MIKE CUOMO.

**TEST PIT LOGS**

DEPTH	COLOR	TEXTURE*	STRUCTURE	CONSISTENCE	MOTTLES: QUANTITY/ CONTRAST
<b>TP #1</b>					
ESHW: 64"					
TERMINATION: 074"					
REFUSAL: NOT ENCOUNTERED					
OBS. WATER: NONE					
ROOTS TO: 16"					
SCS SOIL: WINDSOR					
HIS TYPE: 111					
DEPTH					
0"-8"	10YR 4/3	LFS	GRANULAR	FRIABLE	NONE
8"-16"	10YR 3/3	FSL	GRANULAR	FRIABLE	NONE
16"-22"	10YR 5/8	FSL	GRANULAR	VERY FRIABLE	NONE
22"-28"	10YR 5/6	S	GRANULAR	VERY FRIABLE	NONE
28"-60"	2.5Y 6/6	S	GRANULAR	VERY FRIABLE	20% GRAVEL
<b>TP #2</b>					
ESHW: 36"					
TERMINATION: 060"					
REFUSAL: NOT ENCOUNTERED					
OBS. WATER: NONE					
ROOTS TO: 13"					
SCS SOIL: DEERFIELD					
HIS TYPE: 311					
DEPTH					
0"-8"	10YR 4/3	LFS	GRANULAR	FRIABLE	NONE
8"-13"	10YR 5/4	FSL	GRANULAR	VERY FRIABLE	NONE
13"-36"	10YR 5/6	FSL	GRANULAR	VERY FRIABLE	NONE
36"-60"	2.5Y 5/6	S	GRANULAR	VERY FRIABLE	7.5YR5/8, PROMINENT
<b>TP #3</b>					
ESHW: 77"					
TERMINATION: 077"					
REFUSAL: NOT ENCOUNTERED					
OBS. WATER: NONE					
ROOTS TO: NONE					
SCS SOIL: NONE					
HIS TYPE: NONE					
DEPTH					
0"-12"	10YR 3/4	LS	GRANULAR	FRIABLE	NONE
12"-26"	10YR 5/6	S	GRANULAR	FRIABLE	NONE
26"-77"	2.5Y 5/4	GS	GRANULAR	FRIABLE	NONE REDOX077"
<b>TP #4</b>					
ESHW: 60"					
TERMINATION: 077"					
REFUSAL: NOT ENCOUNTERED					
OBS. WATER: NONE					
ROOTS TO: NONE					
SCS SOIL: NONE					
HIS TYPE: NONE					
DEPTH					
0"-17"	10YR 2/2	FSL	GRANULAR	FRIABLE	NONE
17"-60"	10YR 5/6	S	GRANULAR	FRIABLE	NONE
60"-77"	2.5Y 5/4	S	GRANULAR	FRIABLE	NONE REDOX
<b>TP #5</b>					
ESHW: >72"					
TERMINATION: 072"					
REFUSAL: NOT ENCOUNTERED					
OBS. WATER: NONE					
ROOTS TO: FEW					
SCS SOIL: NONE					
HIS TYPE: NONE					
DEPTH					
0"-30"	FILL	S	NEEDS TO BE REMOVED	FRIABLE	NONE
30"-72"	2.5Y 6/4	S	GRANULAR	FRIABLE	NONE

- \* - TEXTURE ABBREVIATIONS:
- LFS - LOAMY FINE SAND
- LS - LOAMY SAND
- FSL - FINE SANDY LOAM
- GS - GRAVELLY SAND
- S - SAND

FILE NO:	303	
JOB NO:	14010	
F.B. NO:	MSC	
PLAN NO:	C-2691	
SCRD NO:		
DRAWN BY:	RRL	
CHECK BY:	RRL	
DWG NO:	EF	
NO.	REVISION	DATE

BOUNDARY AND EXISTING FEATURES SURVEY PER REFERENCE PLAN #4 BY MSC ENGINEERS & LAND SURVEYORS, INC. THE PLAN WAS REVIEWED AND APPROVED FOR USE BY RANDOLPH R. TETREAU, L.L.S. OF NORWAY PLAINS ASSOCIATES, INC. ON JANUARY 23, 2014.

**NORWAY PLAINS ASSOCIATES, INC.**

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SEPTIC SYSTEM DESIGNERS

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**AMMENDED SITE DEVELOPMENT PLAN**

PROPERTY OF  
**JASON W. BERNDTSON**  
123 DOVER ROAD  
DURHAM, NH 03824  
SCRD: BK 3141, PG 848 & BK 3068, PG 199

**EXISTING FEATURES PLAN**  
**CARRIAGE HILL ASSISTED LIVING**  
**TAX MAP 9 LOTS 8 & 8A**  
**304 & 306 KNOX MARSH ROAD/RTE. 155**  
**MADbury, NEW HAMPSHIRE**  
**STRAFFORD COUNTY**

0 15 30 60  
1 INCH = 30 FEET

REV: 01-27-14

**C-001**



**LEGEND**

EP	EDGE OF PAVEMENT
SF	SQUARE FEET
TYP	TYPICAL
W/	WITH
—	PROPOSED SIGN
(18)	PROPOSED PARKING COUNT
D	PROPOSED DUMPSTER
[Hatched Box]	PROPOSED PAINT
[Dotted Box]	PROPOSED CONCRETE
[Dashed Box]	EXISTING GRAVEL DRIVEWAY
---	PROPERTY LINE
- - -	SETBACK LINE
~ ~ ~	TREELINE
—	EXISTING FENCE
■	PROPOSED DARK-SKY COMPLIANT WALL PACK LIGHT
▼	PROPOSED DARK-SKY COMPLIANT UNDER OVERHANG LIGHT
●	PROPOSED LIGHT POLE, BASE AND DARK-SKY COMPLIANT FIXTURE

**SITE DATA**

ZONED: GENERAL RESIDENTIAL AND AGRICULTURAL & AQUIFER AND WELLHEAD PROTECTION OVERLAY DISTRICT  
 EXISTING USE: COMMERCIAL STORAGE FACILITY  
 PROPOSED USE: ASSISTED LIVING FACILITY (29 BEDS)

**DIMENSIONAL REQUIREMENTS**

MINIMUM LOT DIMENSIONS:	REQUIRED:	EXISTING	PROPOSED:
LOT AREA	80,000 SF/SINGLE FAMILY 120,000 SF/TWO FAMILY	175,028 SF	175,028 SF
STREET FRONTAGE DEPTH	200 FT 150 FT	489 FT 189 FT	489 FT 189 FT
MINIMUM YARD SETBACKS:			
FRONT	50 FT	65 FT	55.3 FT
SIDE	15 FT	73 FT	41.2 FT
REAR	15 FT	N/A	N/A
MAXIMUM IMPERVIOUS COVERAGE	20 % (UNLESS STORMWATER DRAINAGE PLAN INCLUDED)	34.6 %	28.9 %

**PARKING REQUIREMENTS**

ACCESSIBLE SPACES (REQ'D BY ADA)	1 SPACE	N/A	2 SPACES
PARKING SPACE SIZE	8.5 FT X 19 FT	N/A	9 FT X 19 FT

**PARKING SPACES PROPOSED**

RESIDENTS	= 6 +
EMPLOYEES	= 6 +
VISITORS	= 6
TOTAL	= 18

**IMPERVIOUS COVERAGE CALCULATION**

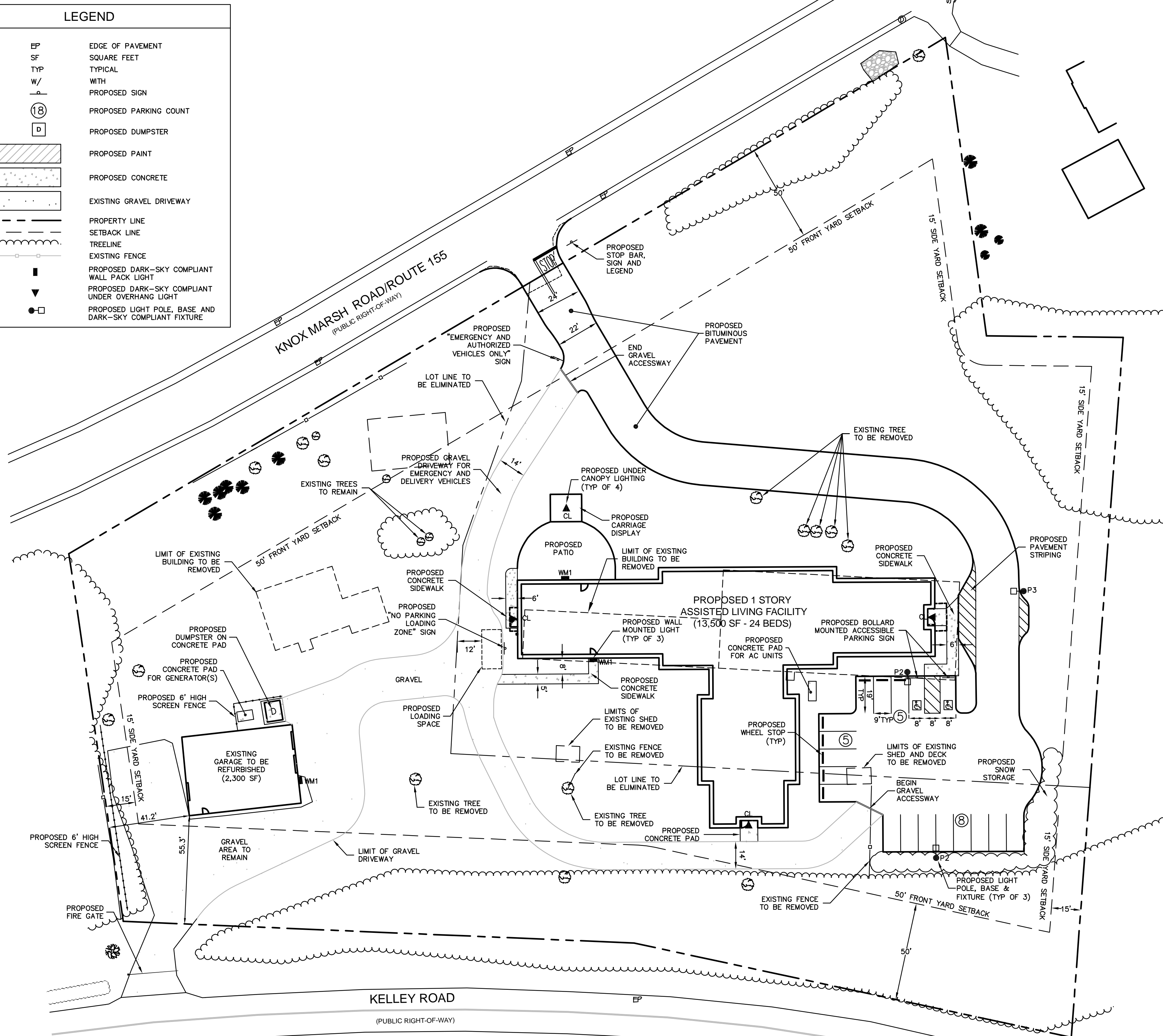
PAVEMENT	= 16,755
GRAVEL	= 15,531
CONCRETE/PATIO	= 2,458
BUILDINGS	= 15,800
TOTAL	= 50,544

**SITE NOTES**

- THESE PLANS ARE PERMIT DRAWINGS ONLY AND NOT INTENDED FOR CONSTRUCTION OR BIDDING.
- ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO APPLICABLE TOWN, STATE, AND FEDERAL CODES.
- ALL PAVEMENT MARKINGS AND SIGNS TO CONFORM TO "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS" AND THE AMERICANS WITH DISABILITIES ACT REQUIREMENTS, LATEST EDITIONS, AND STATE SPECIFICATIONS.
- SEE DETAILS FOR PARKING STALL MARKINGS, ACCESSIBLE SYMBOLS, SIGNS, AND SIGN POSTS.
- CONTACT EASEMENT OWNERS PRIOR TO COMMENCING ANY WORK WITHIN THE EASEMENTS.
- CONTRACTOR TO NOTIFY ENGINEER IN WRITING OF ANY DISCREPANCIES OF PROPOSED LAYOUT AND/OR EXISTING FEATURES.
- THE CONTRACTOR SHALL EMPLOY A LICENSED SURVEYOR TO DETERMINE ALL LINES AND GRADES AND LAYOUT OF SITE ELEMENTS AND BUILDINGS.
- CURBING ALIGNMENT SHALL BE MODIFIED TO AVOID CONFLICTS WITH ALL UTILITY MANHOLES AND OTHER CASTINGS. ALL CONFLICTS SHALL BE REVIEWED WITH THE OWNER PRIOR TO PLACEMENT OF CURB FOR APPROVAL OF MODIFIED ALIGNMENT.
- CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO REDUCE, TO THE FULLEST EXTENT POSSIBLE, NOISE, DUST AND UNSIGHTLY DEBRIS.
- ALL WORK WITHIN THE RIGHT-OF-WAY OF THE TOWN AND/OR STATE SHALL COMPLY WITH APPLICABLE STANDARDS.
- VERIFY LAYOUT OF PROPOSED BUILDING FOUNDATIONS WITH ARCHITECT AND THAT PROPOSED FOUNDATION MEETS PROPERTY LINE SETBACKS PRIOR TO COMMENCING ANY FOUNDATION CONSTRUCTION.
- REFER TO ARCHITECTURAL PLANS FOR LAYOUT OF BUILDING FOUNDATIONS. DO NOT USE SITE PLANS FOR LAYOUT OF FOUNDATIONS.
- WHERE PROPOSED PAVEMENT MEETS EXISTING PAVEMENT, THE SEAM SHALL BE A SAW CUT EDGE AND TREATED WITH EMULSION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AND DETERMINING THE LOCATIONS, SIZE AND ELEVATIONS OF ALL EXISTING UTILITIES, SHOWN OR NOT SHOWN ON THESE PLANS PRIOR TO THE START OF ANY CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY UTILITIES INTERFERING WITH THE PROPOSED CONSTRUCTION TO DETERMINE APPROPRIATE ACTION TO BE TAKEN BEFORE PROCEEDING WITH THE WORK.
- CONTRACTOR TO COORDINATE WITH ALL UTILITY COMPANIES AND DIGSAFE PRIOR TO ANY EXCAVATION. CONTRACTOR TO CONTACT DIGSAFE MINIMUM 72 HOURS PRIOR TO ANY EXCAVATION. CALL 811 OR (888) 344-7233.
- DELIVERIES TO SITE ARE ESTIMATED TO BE BETWEEN 2 AND 4 TIMES PER WEEK.
- MEDICAL/HAZARDOUS WASTE SHALL BE PLACED IN SPECIFIED CONTAINERS AND PICKED UP REGULARLY BY CONTRACTED SERVICE PROVIDER.

**LIGHTING SCHEDULE**

Symbol	Quantity	Label	Description
▼	4	CL	H77-RL706830E26WB/S/ MTD 10' UNDER CANOPY
■	3	WM1	XTOR2A/ WALL MTD 10' AFG
●	2	P2	LDRV-SL4-B04-E/ POLE MTD 20' AFG
●	1	P3	LDRV-SL3-B02-E/ 20' AFG



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SCRD: BK 3141, PG 848 & BK 3068, PG 199

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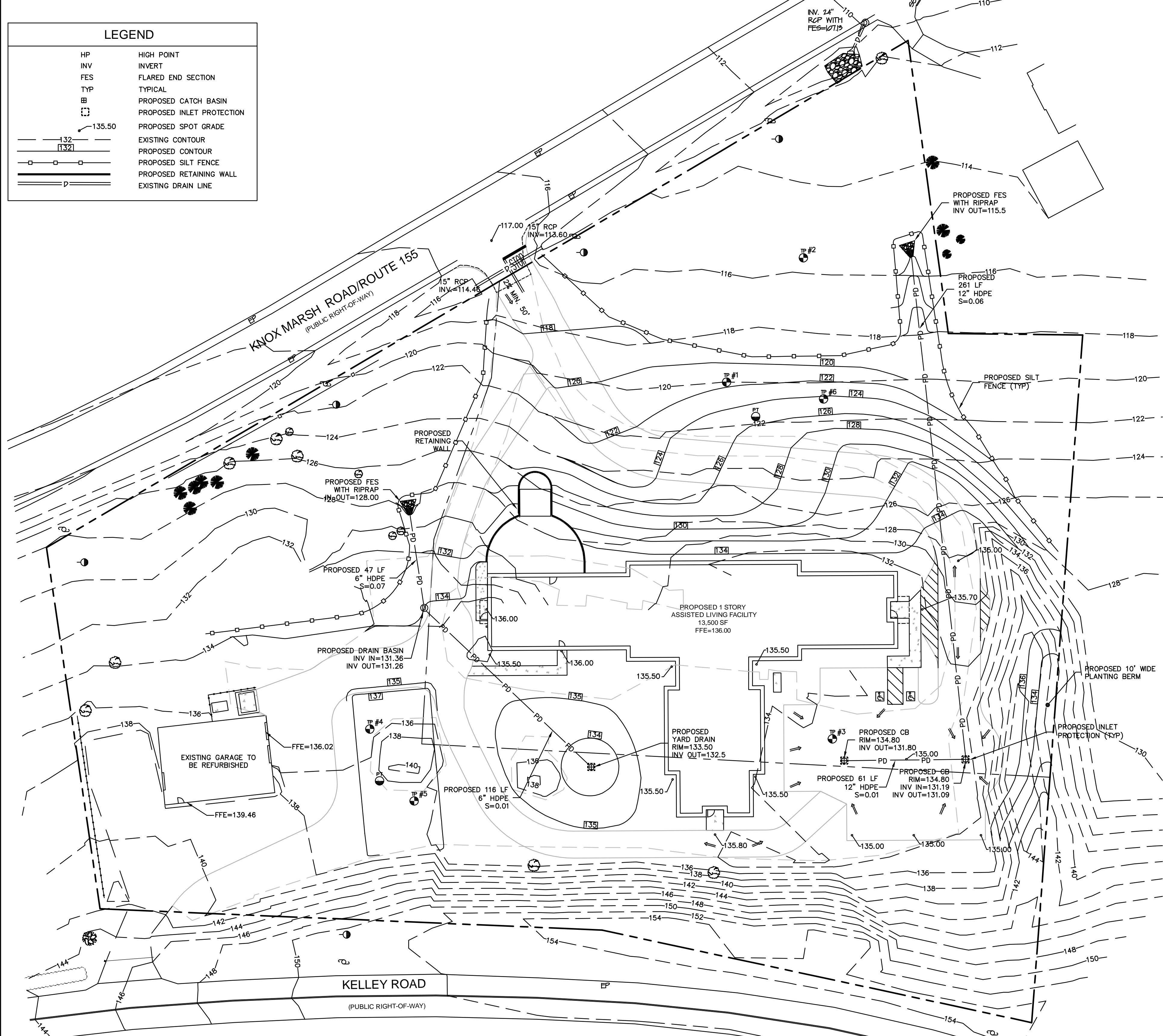
0 15 30 60  
1 INCH = 30 FEET

REV: 01-27-14

**C-002**

LEGEND

HP	HIGH POINT
INV	INVERT
FES	FLARED END SECTION
TYP	TYPICAL
[Symbol]	PROPOSED CATCH BASIN
[Symbol]	PROPOSED INLET PROTECTION
[Symbol]	PROPOSED SPOT GRADE
[Symbol]	EXISTING CONTOUR
[Symbol]	PROPOSED CONTOUR
[Symbol]	PROPOSED SILT FENCE
[Symbol]	PROPOSED RETAINING WALL
[Symbol]	EXISTING DRAIN LINE



GRADING NOTES

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

LOCATION	MINIMUM DENSITY*
BELOW PAVED OR CONCRETE AREAS	95%
TRENCH BEDDING MATERIAL AND SAND BLANKET BACKFILL	95%
BELOW LOAM AND SEED AREAS	90%
- \*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.
- ADJUST ALL MANHOLES, CATCH BASINS, CURB BOXES, ETC. WITHIN LIMITS OF WORK TO FINISH GRADE PRIOR TO INSTALLATION OF FINISHED PAVEMENT.
- CONTRACTOR SHALL PROVIDE A FINISH PAVEMENT SURFACE FREE OF LOW SPOTS AND PONDING AREAS. CRITICAL AREAS INCLUDE BUILDING ENTRANCE, RAMPS AND LOADING AREAS.
- SEE EXISTING FEATURES PLAN FOR BENCHMARK INFORMATION.
- ALL SIDEWALK AND OTHER CURB REVEALS SHALL BE 6" WITH A TOLERANCE OF PLUS OR MINUS 3/8". WHERE SIDEWALK IS TO BE FLUSH, THE CURB REVEAL SHALL BE 0" WITH A TOLERANCE OF PLUS OR MINUS 1/8".
- THE SITE SHALL BE GRADED SO ALL FINISHED PAVEMENT HAS POSITIVE DRAINAGE AND SHALL NOT POND WATER DEEPER THEN 1/4 INCH FOR A PERIOD OF MORE THEN 15 MINUTES AFTER FLOODING.
- THE FINISHED GRADE AT BOTTOM OF ALL HANDICAPPED RAMPS SHALL BE FLUSH WITH PAVEMENT WITH A TOLERANCE OF PLUS OR MINUS 1/4".
- CONTRACTOR IS RESPONSIBLE FOR MAINTAINING SLOPE STABILITY DURING CONSTRUCTION.
- NO FILL SHALL BE PLACED IN ANY WETLAND AREA.

DRAINAGE NOTES

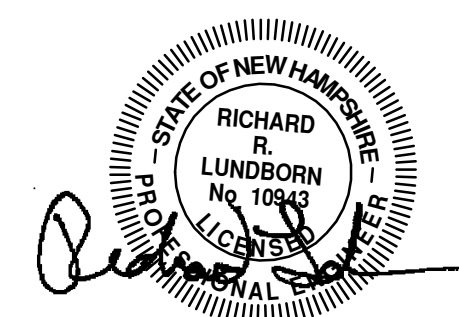
- ALL STORM DRAINS SHALL BE HIGH DENSITY POLYETHYLENE (HANCOR "HIG", ADS "N-12", OR APPROVED EQUAL) UNLESS OTHERWISE NOTED FOR ROOF DRAINS & CANOPY LEADERS.
- ALL CATCH BASINS, MANHOLES, AND DRAIN LINES SHALL BE THOROUGHLY CLEANED OF ALL SEDIMENT AND DEBRIS AFTER ALL AREAS HAVE BEEN STABILIZED.
- ALL MATERIALS AND CONSTRUCTION SHALL CONFORM WITH APPLICABLE TOWN, COUNTY, AND STATE CODES.
- LENGTH OF PIPE IS PROVIDED FOR CONVENIENCE ONLY. ACTUAL PIPE LENGTH SHALL BE DETERMINED IN THE FIELD.
- COORDINATE ROOF AND CANOPY DRAINS WITH BUILDING PLANS.
- ALL PROPOSED MANHOLES, CATCH BASINS AND OTHER STORMWATER STRUCTURES SHALL BE SUBJECT TO REVIEW AND APPROVAL UNDER SUBMITTAL REQUIREMENTS.
- WHERE EXISTING MANHOLES AND CATCH BASINS ARE TO BE RETROFITTED TO ACCEPT NEW PIPES, CONTRACTOR SHALL MAKE ALL NEW PENETRATIONS WITH CONCRETE CORE. THE CONNECTION BETWEEN THE STRUCTURE AND PIPE SHALL BE MADE WATERTIGHT WITH NON-SHRINK GROUT. CONTRACTOR SHALL VERIFY SIZE OF STRUCTURE AND INVERT ELEVATIONS PRIOR TO COMPLETING WORK AND REPORT ANY DISCREPANCIES TO ENGINEER.

EROSION CONTROL NOTES

- SEE GENERAL EROSION CONTROL NOTES ON THE EROSION CONTROL DETAIL SHEET AND THE APPROVED SWPPP.
- INSTALL SILT FENCE BARRIER ALONG THE PERIMETER OF THE AREA TO BE DISTURBED AS FIRST ORDER OF WORK.
- PROVIDE INLET PROTECTION BARRIERS AROUND ALL EXISTING AND PROPOSED STORM DRAINAGE INLETS WITHIN THE WORK LIMITS AND MAINTAIN FOR THE DURATION OF THE PROJECT UNTIL PAVEMENT HAS BEEN INSTALLED. INLET PROTECTION BARRIERS SHALL BE IN PLACE AT ALL CATCH BASINS PRIOR TO THE DISTURBANCE OF SOIL.
- DUST CONTROL SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. IT SHALL BE ACCOMPLISHED BY THE UNIFORM APPLICATION OF CALCIUM CHLORIDE AT THE RATE OF 1-1/2 POUNDS PER SQUARE YARD BY MEANS OF A LIME SPREADER OR OTHER APPROVED METHOD. WATER MAY ALSO BE USED FOR DUST CONTROL, AND APPLIED BY SPRINKLING WITH WATER TRUCK DISTRIBUTORS, AS REQUIRED.
- A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) WAS PREPARED AND IS INCLUDED IN THE SITE WORK TECHNICAL SPECIFICATIONS. PHASING AND CONSTRUCTING STORMWATER CONTROL SHALL BE BASED ON THAT DOCUMENT AND SPECIFICATIONS.
- 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 AFTER EACH RAIN STORM OF 0.10 INCH OR GREATER. REPAIR/MODIFY PROTECTION AS NECESSARY TO MAXIMIZE FILTER EFFICIENCY. REMOVE SEDIMENT WHEN SEDIMENT IS 1/3 THE STRUCTURE HEIGHT.
- PROVIDE SILT FENCE 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
- ALL CATCH BASINS, MANHOLES, AND DRAIN LINES SHALL BE THOROUGHLY CLEANED OF ALL SEDIMENT AND DEBRIS AFTER ALL AREAS HAVE BEEN STABILIZED.
- CONTRACTOR IS RESPONSIBLE FOR MAINTAINING SLOPE STABILITY DURING CONSTRUCTION.
- BOTH CATCHBASINS IN PARKING AREA SHALL INCLUDE DEEP SUMPS AND OIL-DEBRIS SEPARATORS.

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**AMMENDED SITE DEVELOPMENT PLAN**  
 PROPERTY OF  
**JASON W. BERNDTSON**  
 123 DOVER ROAD  
 DURHAM, NH 03824  
 SCRD: BK 3141, PG 848 & BK 3068, PG 199

**GRADING, DRAINAGE & EROSION CONTROL**  
**CARRIAGE HILL ASSISTED LIVING**  
 TAX MAP 9 LOTS 8 & 8A  
 304 & 306 KNOX MARSH ROAD/RTE. 155  
 MADBURY, NEW HAMPSHIRE  
 STRAFFORD COUNTY

0 15 30 60  
 1 INCH = 30 FEET

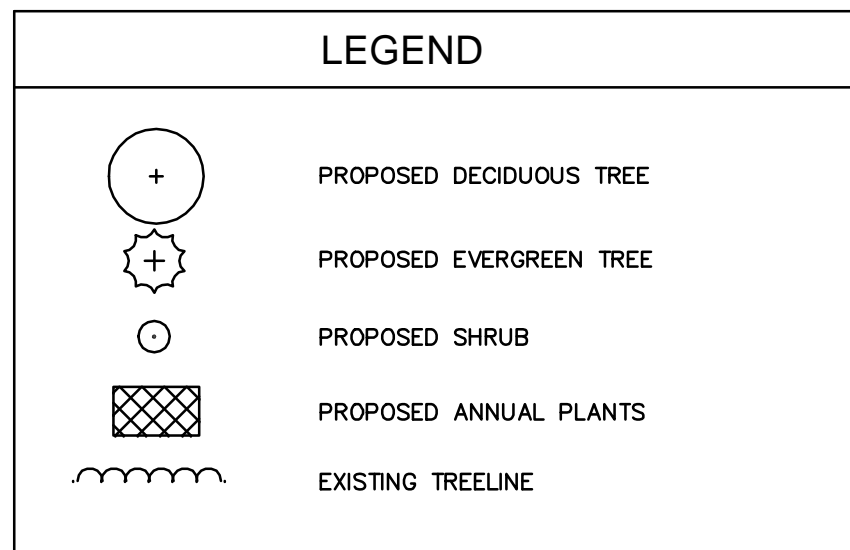
REV: 01-27-14

**C-003**



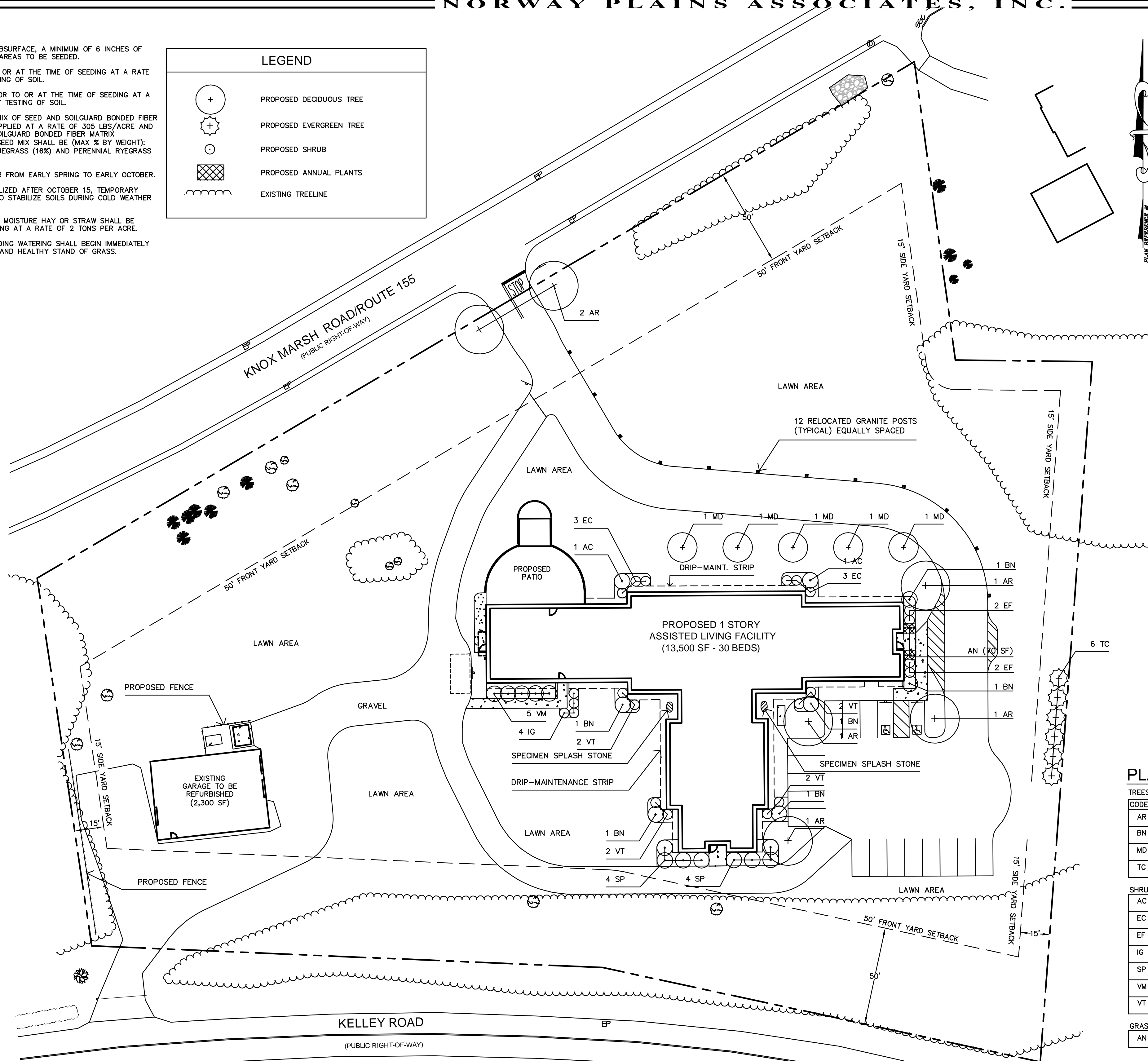
SEEDING NOTES

1. DUE TO EXCESSIVELY DRAINING SUBSURFACE, A MINIMUM OF 6 INCHES OF TOPSOIL SHALL BE SPREAD OVER AREAS TO BE SEEDED.
2. LIME SHALL BE APPLIED PRIOR TO OR AT THE TIME OF SEEDING AT A RATE DETERMINED BY LABORATORY TESTING OF SOIL.
3. FERTILIZER SHALL BE APPLIED PRIOR TO OR AT THE TIME OF SEEDING AT A RATE DETERMINED BY LABORATORY TESTING OF SOIL.
4. AREA TO BE HYDROSEED WITH MIX OF SEED AND SOILGUARD BONDED FIBER MATRIX OR EQUAL. SEED TO BE APPLIED AT A RATE OF 305 LBS/ACRE AND IN A MANNER CONSISTENT WITH SOILGUARD BONDED FIBER MATRIX MANUFACTURER'S SPECIFICATION. SEED MIX SHALL BE (MAX % BY WEIGHT): RED FESCUE (42%), KENTUCKY BLUEGRASS (16%) AND PERENNIAL RYEGRASS (42%).
5. PERMANENT SEEDING SHALL OCCUR FROM EARLY SPRING TO EARLY OCTOBER.
6. IF DISTURBANCE REMAINS UNSTABILIZED AFTER OCTOBER 15, TEMPORARY SEEDING SHALL BE CONDUCTED TO STABILIZE SOILS DURING COLD WEATHER MONTHS.
7. TO PREVENT WEEDS AND MAINTAIN MOISTURE HAY OR STRAW SHALL BE APPLIED IMMEDIATELY AFTER SEEDING AT A RATE OF 2 TONS PER ACRE.
8. APPROPRIATE MAINTENANCE INCLUDING WATERING SHALL BEGIN IMMEDIATELY IN ORDER TO GUARANTEE A FULL AND HEALTHY STAND OF GRASS.



LANDSCAPE NOTES

1. THE CONTRACTOR SHALL FURNISH AND PLANT ALL PLANTS IN QUANTITIES AS SHOWN ON THIS PLAN OR LIST, WHICHEVER IS GREATER. NO SUBSTITUTIONS WILL BE PERMITTED UNLESS APPROVED IN WRITING BY OWNER. ALL PLANTS SHALL BE NURSERY GROWN.
2. PLANTS SHALL BE IN ACCORDANCE WITH THE CURRENT "AMERICAN ASSOCIATION FOR NURSERY STOCK" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
3. PLANT STOCK SHALL BE GROWN WITHIN THE HARDINESS ZONES 4 THRU 7 ESTABLISHED BY THE PLANT HARDINESS ZONE MAP, MISCELLANEOUS PUBLICATIONS NO. 814, AGRICULTURAL RESEARCH SERVICE, UNITED STATES DEPARTMENT OF AGRICULTURE, LATEST REVISION.
4. ALL PLANTS MUST BE MOVED WITH THE ROOT SYSTEMS AS SOLID UNITS WITH BALLS OF EARTH FIRMLY WRAPPED WITH BURLAP. NO PLANT SHALL BE ACCEPTED WHEN THE BALL OF EARTH SURROUNDING ITS ROOTS HAS BEEN BADLY CRACKED OR BROKEN BEFORE PLANTING. ALL PLANTS SHALL BE FRESHLY DUG. ALL PLANTS THAT CANNOT BE PLANTED AT ONCE MUST BE HEELED-IN BY SETTING IN THE GROUND, AND COVERING THE BALLS WITH SOIL AND THEN WATERING. DURING TRANSPORT, ALL PLANT MATERIALS SHALL BE WRAPPED WITH WIND PROOF COVERING.
5. PLANT MATERIAL SHALL BEAR THE SAME RELATIONSHIP TO FINISHED GRADE AS TO THE ORIGINAL PLANTING GRADE PRIOR TO DIGGING.
6. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAKE THE APPROPRIATE ARRANGEMENTS TO PROVIDE ALL PLANTS AND MATERIALS TO ACCOMMODATE PLANTINGS WITHIN THE TIME ALLOWED BY THE CONSTRUCTION SCHEDULE.
7. THE CONTRACTOR SHALL LOCATE, VERIFY AND MARK ALL EXISTING AND NEWLY INSTALLED UNDERGROUND UTILITIES PRIOR TO ANY LAWN WORK OR PLANTING. ANY CONFLICTS WHICH MIGHT OCCUR BETWEEN PLANTING AND UTILITIES SHALL IMMEDIATELY BE REPORTED TO THE OWNER SO THAT ALTERNATE PLANTING LOCATIONS CAN BE DETERMINED.
8. ALL DISTURBED AREAS NOT TO BE PAVED OR OTHERWISE TREATED, DUE TO EXCESSIVELY DRAINING SUBSURFACE, SHALL RECEIVE SIX (6) INCH LOAM AND SEED.
9. SEE PLANTING DETAILS FOR WEED BARRIER INFORMATION AND ADDITIONAL REQUIREMENTS.
10. TREE STAKES AND WRAP SHALL REMAIN IN PLACE FOR NO LESS THAN 6 MONTHS AND NO MORE THAN 1 YEAR.
11. PLANTING SHALL BE COMPLETED FROM APRIL 15TH THROUGH OCTOBER 30TH. NO PLANTING DURING JULY AND AUGUST UNLESS SPECIAL PROVISIONS ARE MADE FOR DROUGHT.
12. TREES SHALL BE PRUNED IN ACCORDANCE WITH THE LATEST EDITION OF ANSI A300 "TREES, SHRUBS AND OTHER WOOD PLANT MAINTENANCE STANDARD PRACTICES".
13. ALL PLANTS SHALL BE WATERED THOROUGHLY TWICE DURING THE FIRST 24 HOUR PERIOD AFTER PLANTING. ALL PLANTS SHALL BE WATERED WEEKLY, OR MORE OFTEN, IF NECESSARY DURING THE FIRST GROWING SEASON, NOT LESS THAN ONE YEAR.
14. EXISTING TREES SHOWN ON THE PLAN ARE TO REMAIN UNDISTURBED. ALL EXISTING TREES SHOWN TO REMAIN ARE TO BE PROTECTED WITH A 4-FOOT SNOW FENCE PLACED AT THE DRIP LINE OF THE BRANCHES.
15. THE CONTRACTOR SHALL MAINTAIN AND GUARANTEE ALL PLANTINGS TO BE IN GOOD HEALTHY, FLOURISHING AND ACCEPTABLE CONDITION FOR A PERIOD OF (1) YEAR BEGINNING AT THE DATE OF ACCEPTANCE OF SUBSTANTIAL COMPLETION. ALL GRASSES, TREES AND SHRUBS THAT, IN THE OPINION OF THE LANDSCAPE ARCHITECT, SHOW LESS THAN 80% HEALTHY GROWTH AT THE END OF (1) YEAR PERIOD SHALL BE REPLACED BY THE CONTRACTOR.
16. ALL MULCH WITHIN BEDS IS TO BE LAID OVER APPROVED LANDSCAPE WEED FABRIC TO INHIBIT WEED GROWTH.
17. PLANT GROUPINGS SHALL BE INCORPORATED INTO PLANTING BEDS UNLESS OTHERWISE NOTED. WHERE MULCHED PLANT BEDS ABUT LAWN, PROVIDE TURF CUT EDGE. WHERE MULCHED PLANT BEDS ABUT PAVEMENT, EDGES SHALL INTERSECT AT 90 DEGREE.
18. PROPOSED TREES OVERHANGING SIDEWALKS, ROADS, OR PARKING SHALL BEGIN BRANCHING NATURALLY (NOT PRUNED) AT 6' HEIGHT.
19. ALL PLANTS SHALL BE WATERED THOROUGHLY DURING THE FIRST 24 HOUR PERIOD AFTER PLANTING. ALL PLANTS SHALL BE WATERED WEEKLY, OR MORE OFTEN, IF NECESSARY DURING THE FIRST GROWING SEASON.
20. LANDSCAPE PLAN IS FOR APPROVAL ONLY. DO NOT USE LANDSCAPE PLAN FOR CONSTRUCTION.



PLANT LIST

TREES:

CODE	BOTANICAL NAME	COMMON NAME	QUANTITY	SIZE	ROOTS	COMMENTS
AR	ACER RUBRUM "OCTOBER GLORY"	OCTOBER GLORY RED MAPLE	6	2 1/2" CAL.	B&B	SINGLE STRAIGHT MAIN TRUNK, FULL & BUSHY CROWN
BN	BETULA NIGRA "LITTLE KING"	FOX VALLEY RIVER BIRCH	6	6" HT.	B&B	3 LEADER TRUNK, CLUMP, FULL & BUSHY CROWN
MD	MALUS "DONALD WYMAN"	DONALD WYMAN CRABAPPLE	5	2" CAL.	B&B	SINGLE STRAIGHT MAIN TRUNK, FULL & BUSHY CROWN
TC	TSUGA CANADENSIS	CANADIAN HEMLOCK	6	5' HT.	B&B	SINGLE STRAIGHT MAIN TRUNK, FULL & BUSHY

SHRUBS:

CODE	BOTANICAL NAME	COMMON NAME	QUANTITY	SIZE	ROOTS	COMMENTS
AC	AMELANCER X.G. "ROBIN HILL"	ROBIN HILL SERVICEBERRY	2	6' HT.	B&B	FULL & BUSHY CROWN
EC	ENKIANTHUS CAMPANULATUS	REDVEIN ENKIANTHUS	6	30" HT.	B&B	FULL & BUSHY
EF	EUONYMUS FORTUNEI "EMERALD GAITY"	EMERALD GAITY WINTERCREEPER	4	5 GAL.	B&B	FULL & BUSHY
IG	ILEX GLABRA "COMPACTA"	DWARF INKBERRY	4	30" HT.	B&B	FULL & BUSHY
SP	SYRINGA PATULA "MISS KIM"	MISS KIM LILAC	8	3' HT.	CONTAINER	FULL & BUSHY
VM	VBURNUM P.T. "MARIESII"	MARIE'S DOUBLEFILE VBURNUM	5	3' HT.	B&B	FULL & BUSHY
VT	VBURNUM TRILOBUM "COMPACTA"	COMPACT AMERICAN CRANBERRY	8	30" HT.	B&B	FULL & BUSHY

GRASSES, GROUND COVERS AND BULBS:

CODE	DESCRIPTION	QUANTITY	SIZE	CONTAINER	COMMENTS
AN	BRIGHTLY COLORED ANNUALS	70 S.F.	-	CONTAINER	PLANT 12" O.C., INSTALL FOR GRAND OPENING

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LANDSCAPE ARCHITECT:

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 170 Commerce Way,  
 Suite 102  
 Portsmouth, NH 03801  
 P. 603-431-4000

**NORWAY PLAINS ASSOCIATES, INC.**

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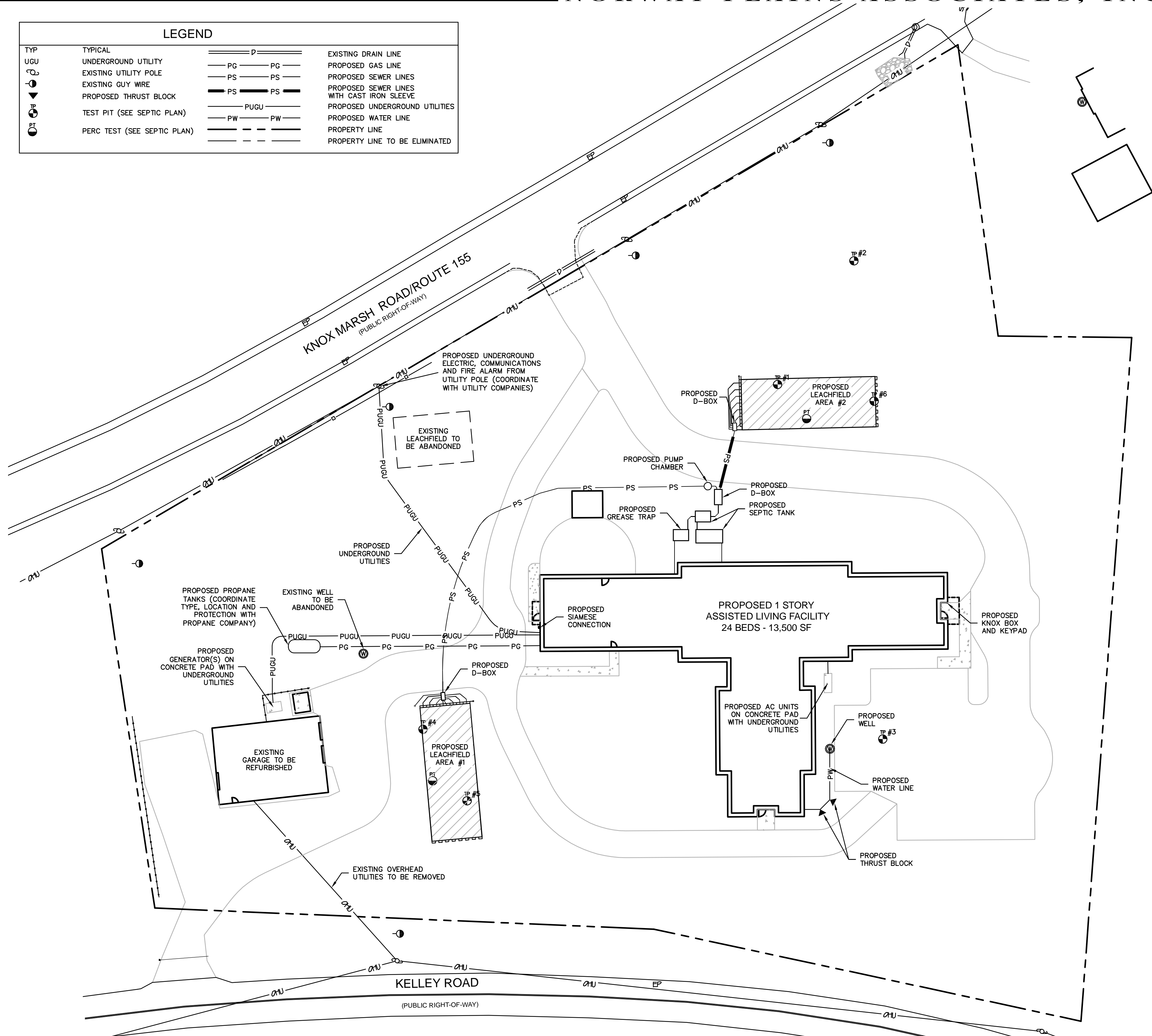
LANDSCAPE PLAN  
 CARRIAGE HILL ASSISTED LIVING  
 TAX MAP 9 LOTS 8 & 8A  
 304 & 306 KNOX MARSH ROAD/RTE. 155  
 MADBURY, NEW HAMPSHIRE  
 STRAFFORD COUNTY

0 15 30 60  
 1 INCH = 30 FEET

REV: 01-27-14

**C-004**

LEGEND			
TYP	TYPICAL		EXISTING DRAIN LINE
UGU	UNDERGROUND UTILITY		PROPOSED GAS LINE
	EXISTING UTILITY POLE		PROPOSED SEWER LINES
	EXISTING GUY WIRE		PROPOSED SEWER LINES WITH CAST IRON SLEEVE
	PROPOSED THRUST BLOCK		PROPOSED UNDERGROUND UTILITIES
	TEST PIT (SEE SEPTIC PLAN)		PROPOSED WATER LINE
	PERC TEST (SEE SEPTIC PLAN)		PROPERTY LINE
			PROPERTY LINE TO BE ELIMINATED



UTILITY NOTES

- THE BEST AVAILABLE INFORMATION WAS USED TO DETERMINE THE LOCATION AND SIZE OF EXISTING UTILITIES. THE LOCATION IS NOT GUARANTEED BY THE OWNER OR THE ENGINEER. THE EXACT SIZE AND LOCATION OF UTILITIES SHALL BE CONFIRMED IN THE FIELD BY THE CONTRACTOR PRIOR TO COMMENCING WORK. IT IS ALSO THE CONTRACTOR'S RESPONSIBILITY TO ANTICIPATE CONFLICTS AND REPAIR EXISTING UTILITIES AS NECESSARY TO COMPLETE THE WORK AT NO ADDITIONAL COST TO THE OWNER. THE EXISTING UTILITY CONTACT SUMMARY INFORMATION IS PROVIDED FOR THE CONTRACTOR'S USE. THE CONTRACTOR SHALL COORDINATE TERMINATION OF ALL UTILITIES WITH THE APPROPRIATE UTILITY COMPANY.
- COORDINATE ALL WORK WITHIN THE RIGHT-OF-WAY WITH APPROPRIATE TOWN, COUNTY AND/OR STATE AGENCY.
- COORDINATE ALL WORK ADJACENT TO PROPOSED BUILDINGS WITH ARCHITECTURAL BUILDING DRAWINGS.
- THE EXACT LOCATION OF NEW UTILITY CONNECTIONS SHALL BE DETERMINED BY THE CONTRACTOR IN COORDINATION WITH UTILITY COMPANY, COUNTY AGENCY AND/OR PRIVATE UTILITY COMPANY.
- ALL UNDERGROUND CONDUITS SHALL HAVE NYLON PULL ROPES.
- THE CONTRACTOR SHALL ARRANGE AND PAY FOR ALL INSPECTIONS, TESTING AND RELATED SERVICES AND SUBMIT COPIES OF ACCEPTANCE TO THE OWNER, UNLESS OTHERWISE INDICATED.
- THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL MANHOLES, BOXES, FITTINGS, CONNECTORS, COVER PLATES AND OTHER MISCELLANEOUS ITEMS NOT NECESSARILY DETAILED ON THESE DRAWINGS TO RENDER THE UTILITY INSTALLATION COMPLETE AND OPERATIONAL.
- ALL UTILITY COMPANIES REQUIRE INDIVIDUAL CONDUITS. CONTRACTOR TO COORDINATE WITH TELEPHONE, CABLE AND ELECTRIC COMPANIES REGARDING NUMBER, SIZE AND TYPE OF CONDUITS REQUIRED PRIOR TO INSTALLATION OF ANY CONDUIT.
- LENGTH OF PIPE IS FOR CONVENIENCE ONLY. ACTUAL PIPE LENGTH SHALL BE DETERMINED IN THE FIELD.
- ALL PROPOSED UTILITY WORK, INCLUDING MATERIAL, INSTALLATION, TERMINATION, EXCAVATION, BEDDING, BACKFILL, COMPACTION, TESTING, CONNECTIONS, AND CONSTRUCTION SHALL BE COORDINATED WITH AND COMPLETED IN ACCORDANCE WITH THE APPROPRIATE REQUIREMENTS, CODES AND STANDARDS OF ALL CORRESPONDING UTILITY ENTITIES.

SEPTIC CALCULATIONS

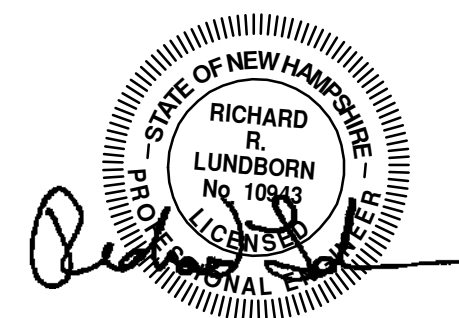
FROM NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES CODE OF ADMINISTRATIVE RULES (ENV-WQ 1000):  
 USE = NURSING HOME  
 DESIGN FLOW = 125 GPD/BED + 35 GPD/NUMBER OF EMPLOYEES ON LARGEST SHIFT  
 = (125 GPD/BED x 24 BEDS) + (35 GPD/EMPLOYEE x 6 EMPLOYEES)  
 = 3,210 GALLONS PER DAY

UTILITY CONTACTS

ELECTRIC: PSNH 74 OLD DOVER ROAD ROCHESTER, NH 03867 CONTACT: PIERRE BOUGIE (603) 332-4227 X5307
TELEPHONE: FAIRPOINT COMMUNICATION CONTACT: CHRISTOPHER STEVENS (603) 430-2059
CABLE: COMCAST 155 COMMERCE WAY PORTSMOUTH, NH 03801 CONTACT: GEORGE KIRKWOOD (603) 433-2166

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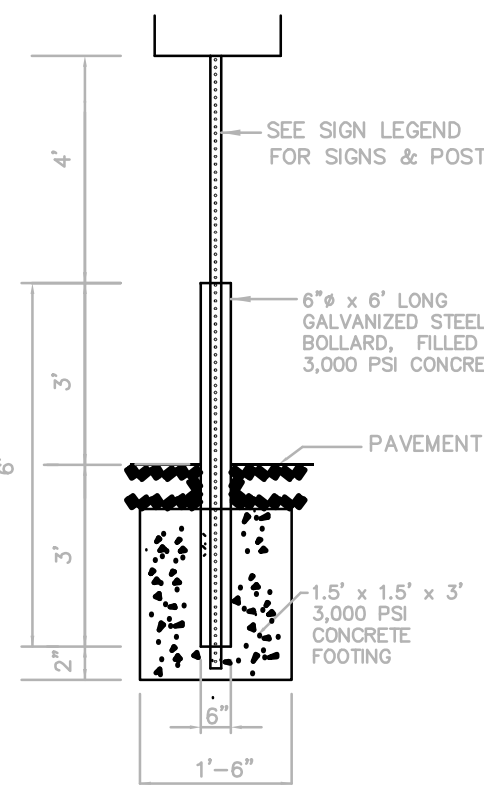
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**UTILITY PLAN**  
**CARRIAGE HILL ASSISTED LIVING**  
**TAX MAP 9 LOTS 8 & 8A**  
**304 & 306 KNOX MARSH ROAD/RTE. 155**  
**MADBURY, NEW HAMPSHIRE**  
**STRAFFORD COUNTY**

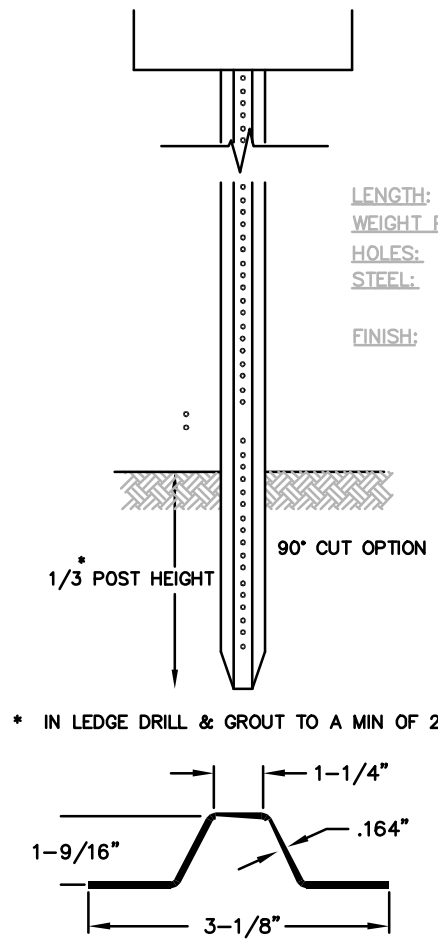
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**C-005**





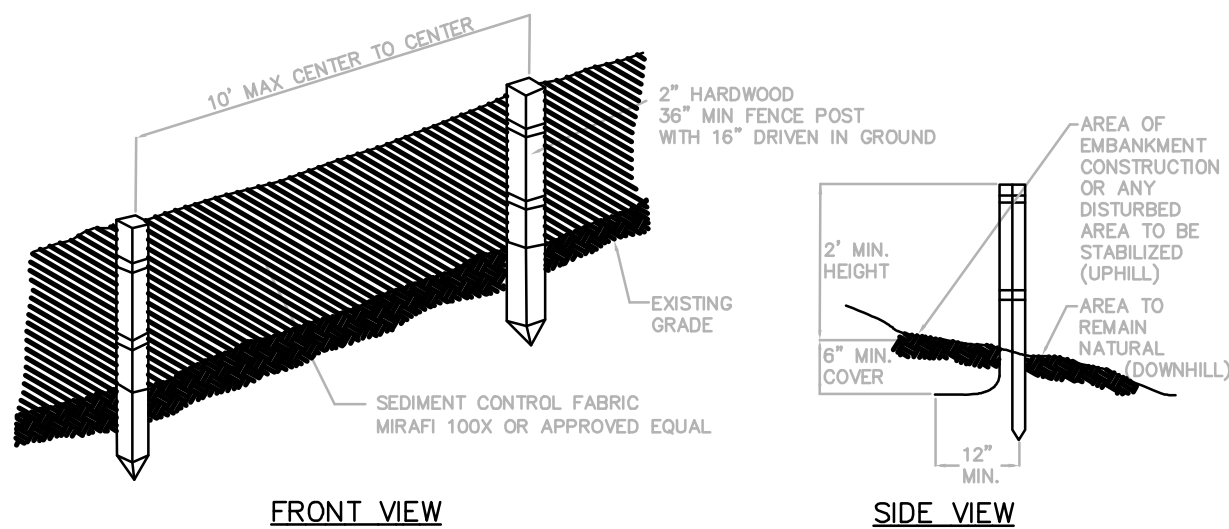
**NOTE:**  
1. BOLLARD SHALL BE PAINTED WITH PRIMER & 2 COATS OF SAFETY YELLOW PAINT.

**SIGN BOLLARD**  
NOT TO SCALE



\* IN LEDGE DRILL & GROUT TO A MIN OF 2"

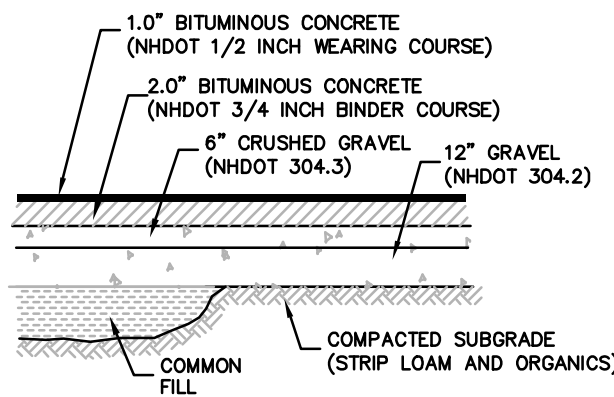
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NOT TO SCALE



**NOTES**

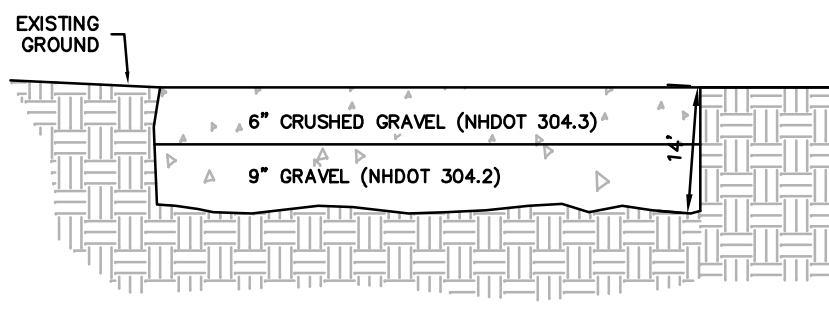
1. THE GEOTEXTILE FABRIC SHALL MEET THE NEW HAMPSHIRE DESIGN CRITERIA FOR SILT FENCES.
2. THE HEIGHT OF THE BARRIER SHALL NOT EXCEED 36 INCHES.
3. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6-INCH OVERLAP, AND SECURELY SEALED. SEE MANUFACTURER'S RECOMMENDATIONS.
4. POSTS SHALL BE SPACED A MAXIMUM OF 10 FEET APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 8 INCHES). WHEN EXTRA STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POST SPACING SHALL BE AS MANUFACTURER RECOMMENDS.
5. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 6 INCHES WIDE AND 6 INCHES DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER IN ACCORDANCE WITH RECOMMENDATIONS.
6. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE, AND WILL EXTEND TO A MINIMUM OF 8 INCHES INTO THE TRENCH. FILTER FABRIC SHALL NOT BE STAPLED INTO EXISTING TREES.
7. THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE FILTER FABRIC.
8. FILTER BARRIERS SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.
9. FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL OF 0.10 INCH OR GREATER, AND AT LEAST DAILY DURING PROLONGED RAINFALL, ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
10. SHOULD THE FABRIC DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL BE NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
11. SEDIMENT DEPOSITS SHOULD BE REMOVED WHEN THEY REACH APPROXIMATELY ONE-THIRD THE HEIGHT OF THE BARRIER.
12. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED, SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.

**SILT FENCE**  
NOT TO SCALE



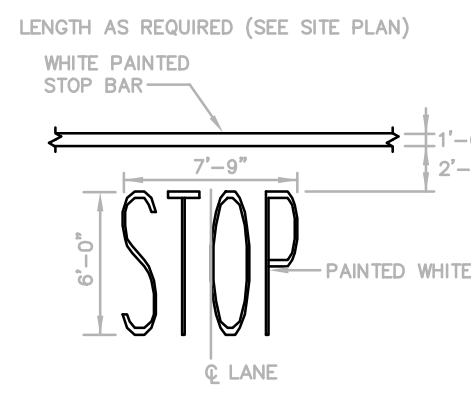
**NOTES**  
1. SEE PLANS FOR PAVEMENT SLOPE AND CROSS-SLOPE.  
2. REMOVE ALL LOAM AND/OR YIELDING MATERIAL.

**PAVEMENT SECTION**  
NOT TO SCALE



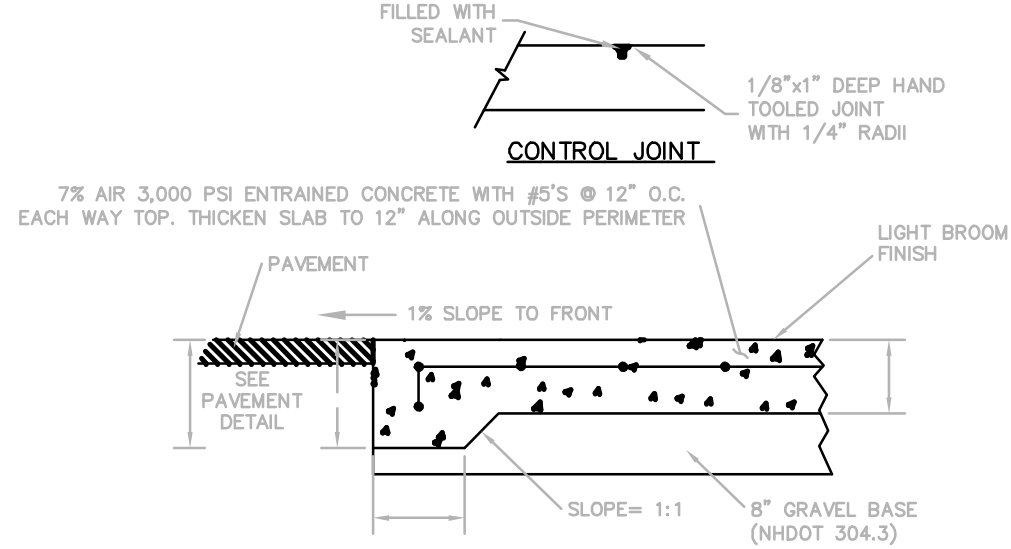
**NOTES**  
1. SEE PLAN FOR LOCATIONS AND GRADES.

**GRAVEL DRIVEWAY**  
NOT TO SCALE



**NOTE:**  
PAVEMENT MARKINGS TO BE INSTALLED IN LOCATIONS SHOWN ON THE PLANS. APPLY TWO COATS.

**STOP BAR & LEGEND**  
NOT TO SCALE



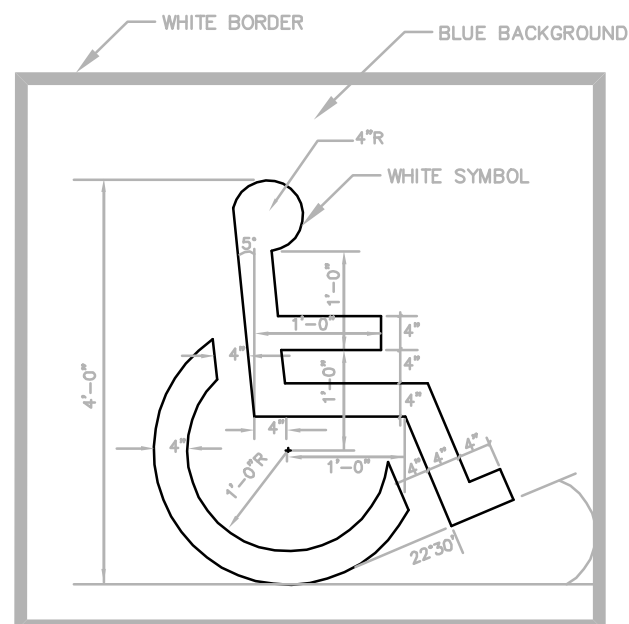
**SECTION VIEW CONCRETE PAD**  
NOT TO SCALE



**NOTE:**

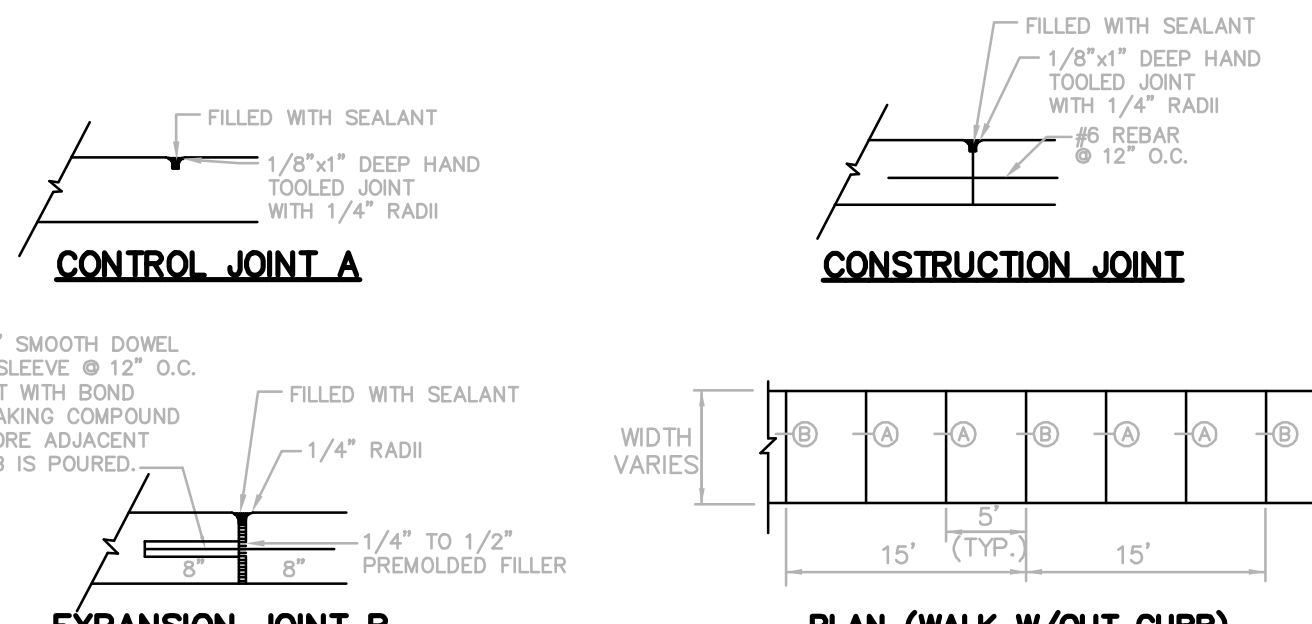
1. ALL SIGNS TO BE INSTALLED AS INDICATED IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
2. "CUSTOMER WITH INFANT PARKING" SIGN TO BE ON PORTABLE POST AND BASE COMBINATION AND PROVIDED BY STOP & SHOP.

**SIGN LEGEND**  
NOT TO SCALE

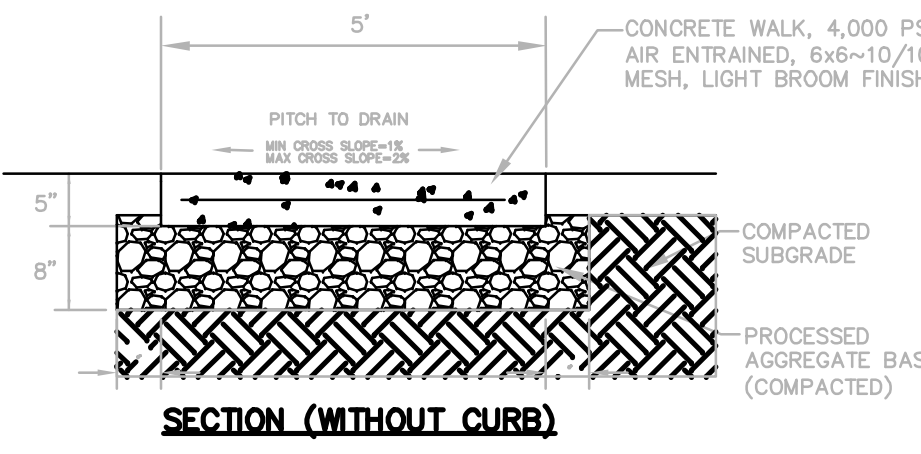


**NOTE:**  
SYMBOL TO BE PAINTED IN ALL ACCESSIBLE SPACES. APPLY TWO COATS.

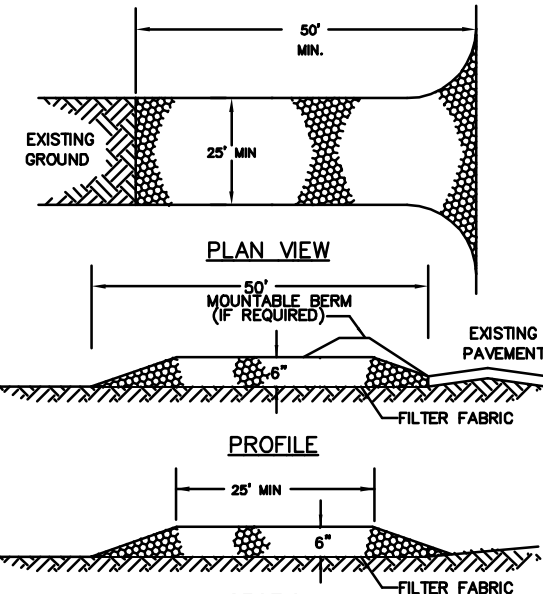
**ACCESSIBLE PARKING SYMBOL**  
NOT TO SCALE



**CONCRETE SIDEWALK**  
NOT TO SCALE



**SECTION (WITHOUT CURB)**

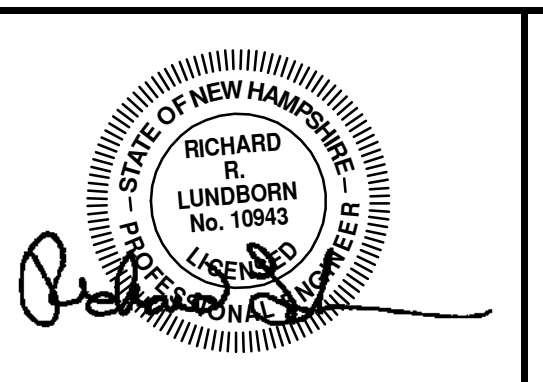


**STABILIZED CONSTRUCTION ENTRANCE**  
NOT TO SCALE

**CONSTRUCTION SPECIFICATIONS**  
STONE SIZE - NHDOT STANDARD STONE SIZE #4 - SECTION 703 OF NHDOT STANDARD SPECIFICATIONS. (SEE GRADATION TABLE)  
LENGTH - 50 FOOT MINIMUM.  
THICKNESS - SIX (6) INCHES MINIMUM.  
WIDTH - 25" MINIMUM OR WIDTH OF DRIVEWAY  
FILTER FABRIC - MIRAFI 600X OR APPROVED EQUAL.  
INSTALLATION - THE AREA OF THE ENTRANCE SHOULD BE CLEARED OF ALL VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL. A ROAD STABILIZATION FILTER CLOTH CAN BE PLACED ON THE SUBGRADE PRIOR TO THE GRAVEL PLACEMENT TO PREVENT PUMPING. THE GRAVEL SHALL BE PLACED TO THE SPECIFIED DIMENSIONS.  
MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS WILL REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE OR ADDITIONAL LENGTH AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANUP OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.

CRUSHED STONE GRADATION TABLE	
SIEVE SIZE	% PASSING BY HEIGHT
2 inches	100
1 1/2 inches	90-100
1 inch	70-95
3/4 inch	0-15
3/8 inch	0-5

FILE NO:	303		
JOB NO:	14010		
F.B. NO:	MSC		
PLAN NO:	C-2691		
SCRD NO:			
DRAWN BY:	RRL		
CHECK BY:	RRL		
DWG NO:	DETAIL	NO.	REVISION
			DATE



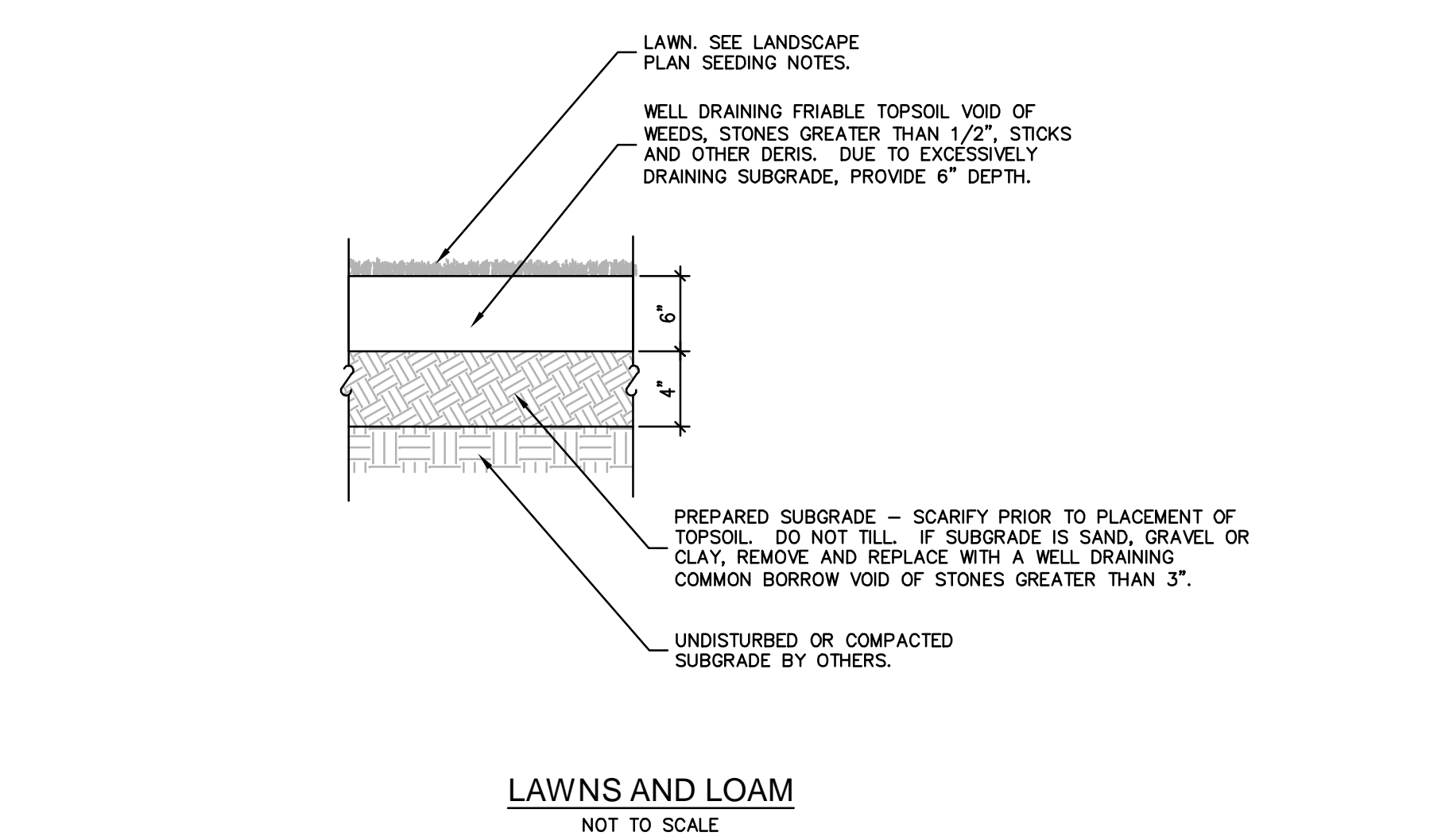
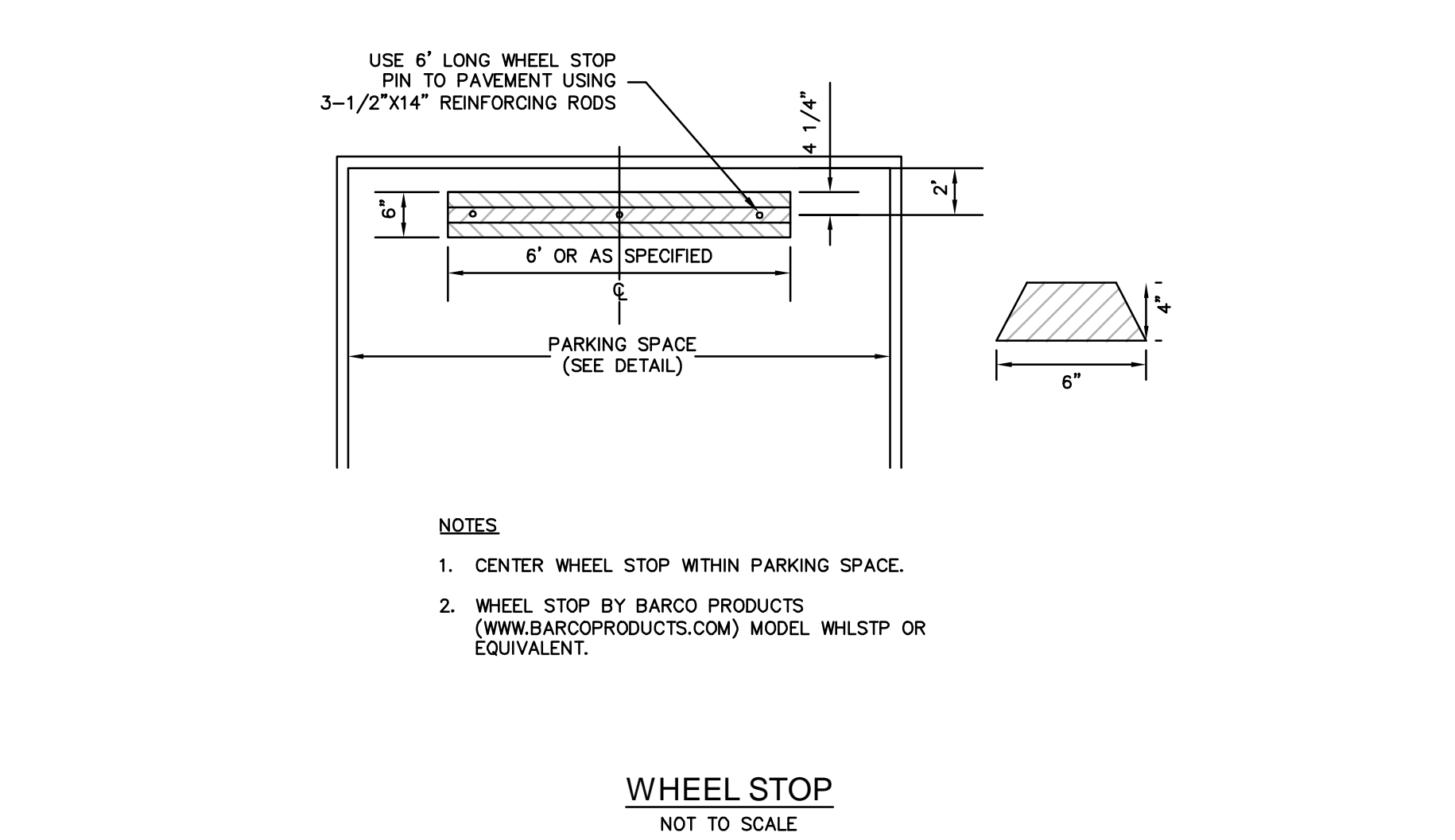
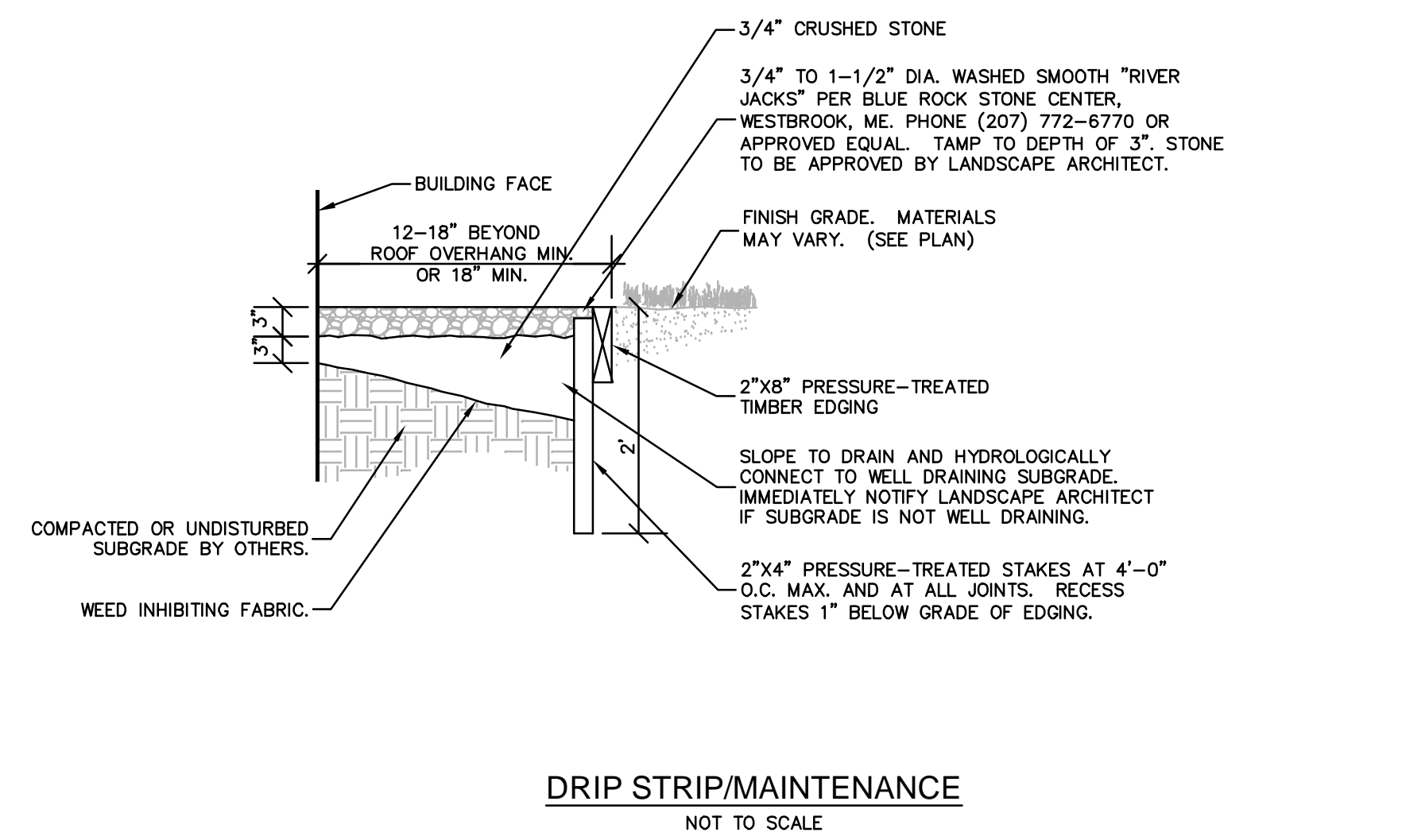
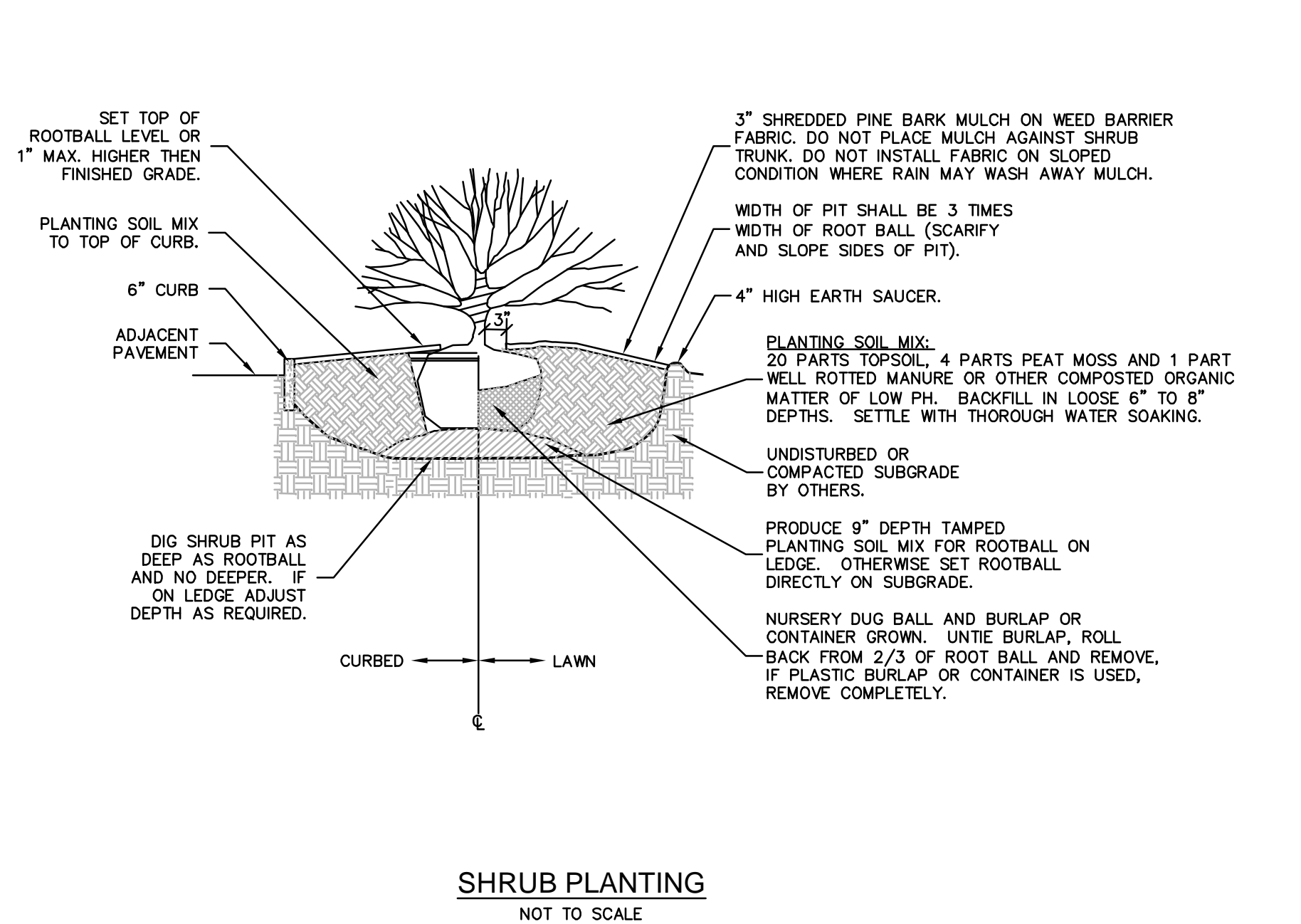
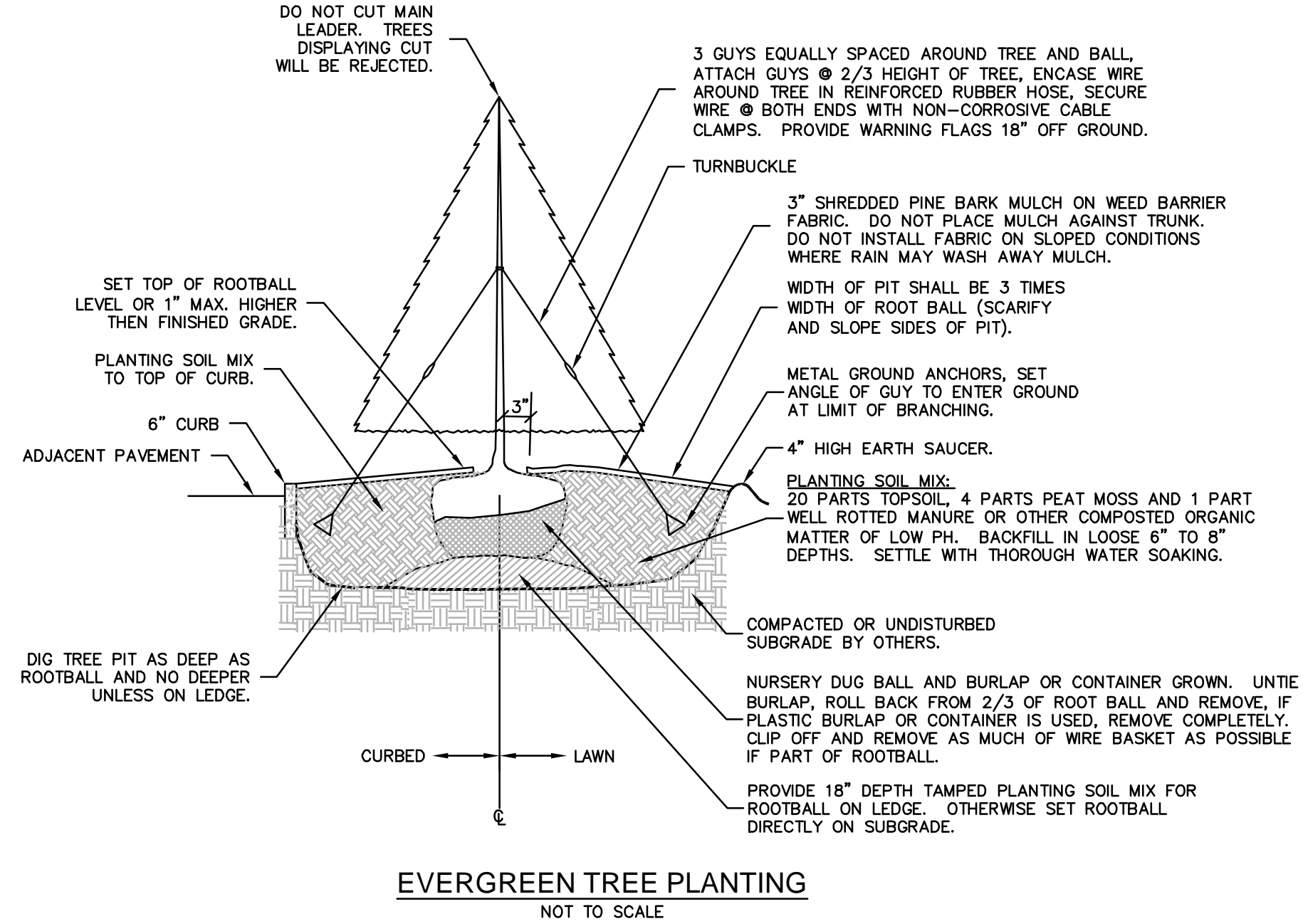
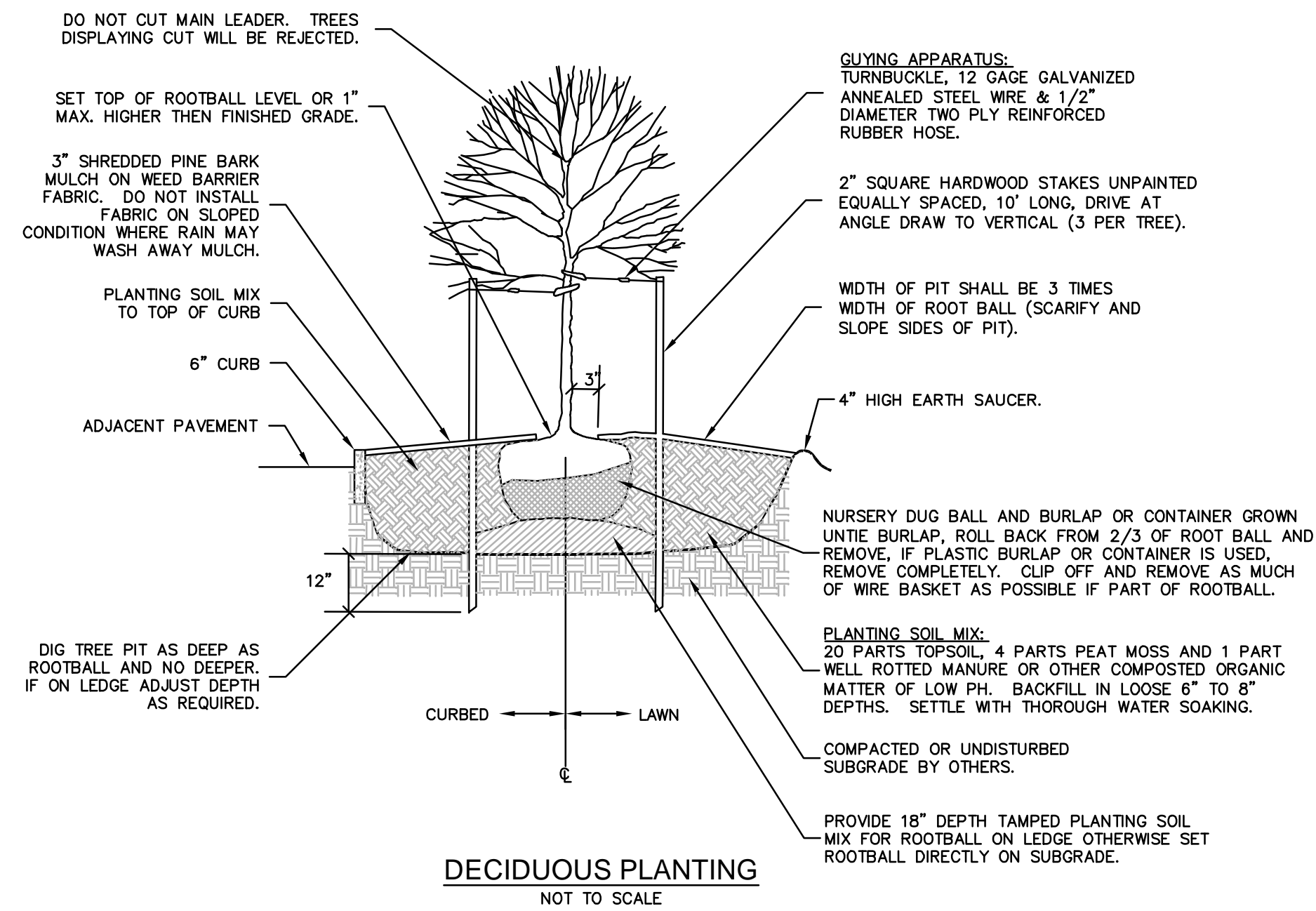
**NORWAY PLAINS ASSOCIATES, INC.**  
SURVEYORS  
SEPTIC SYSTEM DESIGNERS  
ALTON  
31 Mooney Street  
Alton, NH 03809  
(603) 875-3948  
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**ENGINEERS**  
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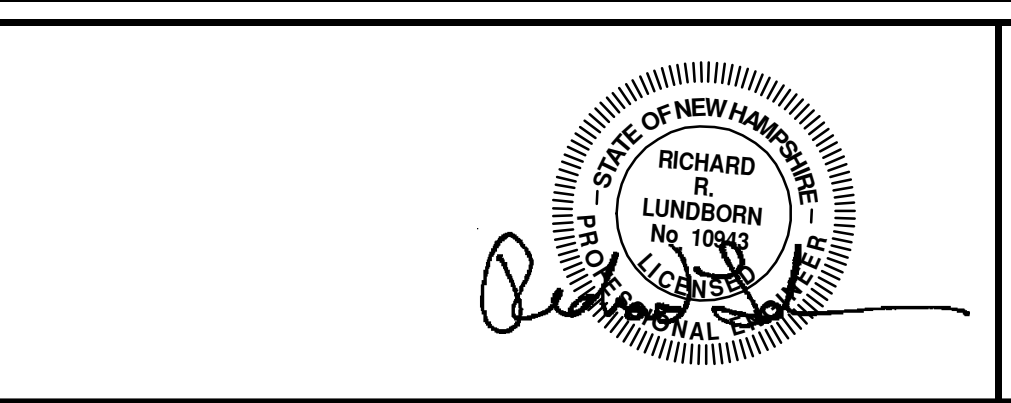
**AMMENDED SITE DEVELOPMENT PLAN**  
PROPERTY OF  
**JASON W. BERNDTSON**  
123 DOVER ROAD  
DURHAM, NH 03824  
SCRD: BK 3141, PG 848 & BK 3068, PG 199

**DETAILS**  
**CARRIAGE HILL ASSISTED LIVING**  
TAX MAP 9 LOTS 8 & 8A  
304 & 306 KNOX MARSH ROAD/RTE. 155  
MADBURY, NEW HAMPSHIRE  
STRAFFORD COUNTY

**SCALE:**  
AS SHOWN  
REV: 01-27-14  
**C-006**



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**C-007**