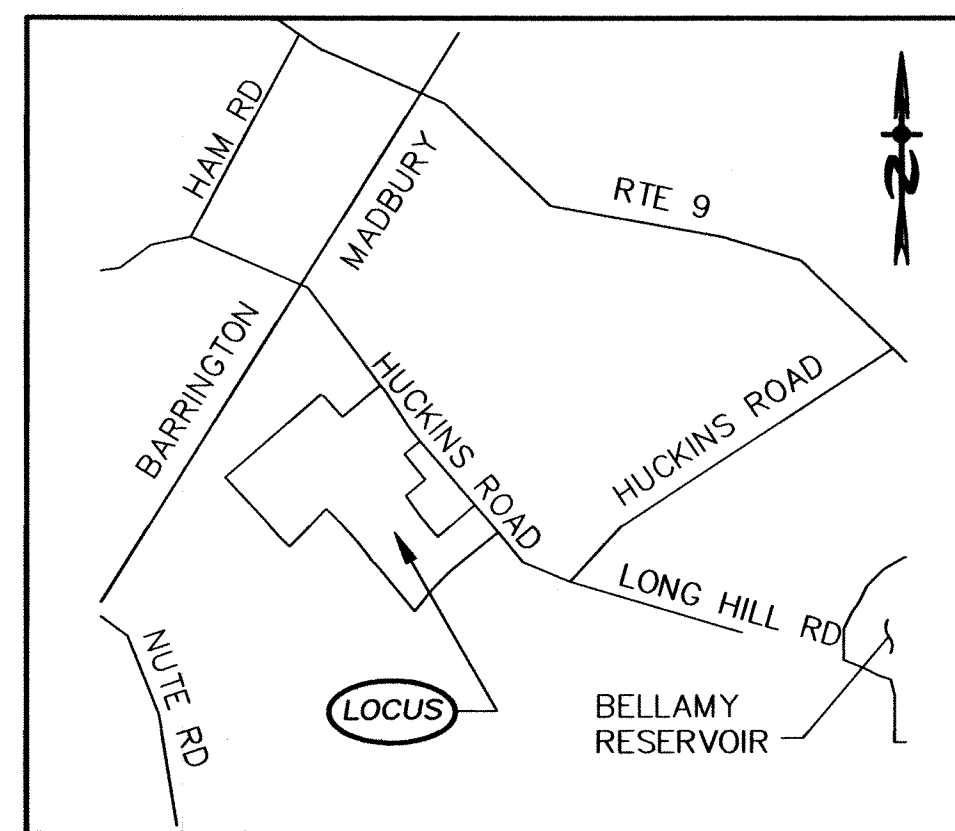


JASPER'S CORNER SUBDIVISION PLAN

ONE HOME BUILDERS, LLC TAX MAP 2, LOT 20

LOCATION MAP



MADBURY N.H.
NOT TO SCALE

INDEX

TITLE SHEET

- 1 EXISTING CONDITIONS PLAN
- 2 SUBDIVISION PLAN
- 3 SUBDIVISION SITE PLAN
- 4 P1 PLAN AND PROFILE (HUCKINS)
- 5 P2 PLAN AND PROFILE (PROPOSED ROAD)
- 6 X1 CROSS SECTIONS (HUCKINS)
- 7 X2 CROSS SECTIONS (PROPOSED ROAD)
- 8 X3 CROSS SECTIONS (PROPOSED ROAD)
- 9 CONSTRUCTION DETAIL SHEET
- 10 EROSION CONTROL DETAILS

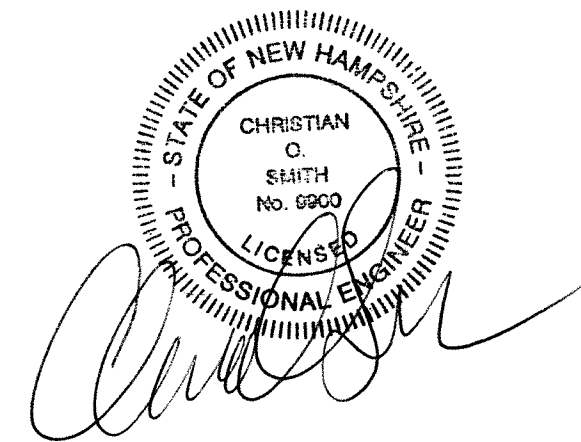
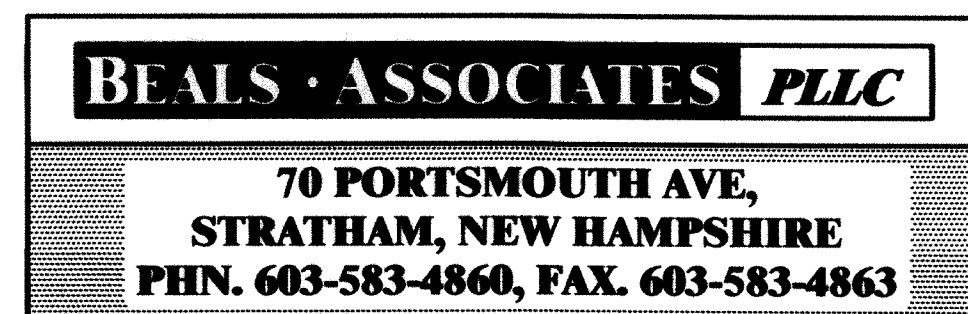
RECORD OWNER:

LOUISE ABBOTT
38 HUCKINS ROAD
MADBURY, NH 03823

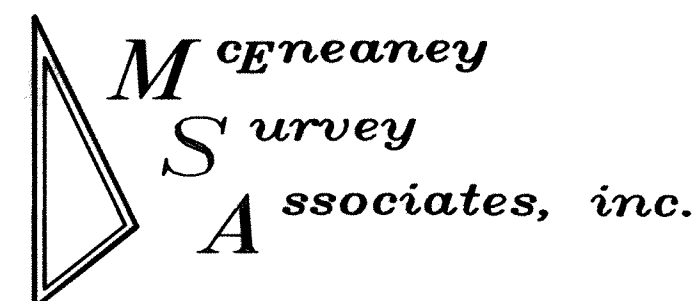
APPLICANT:

ONE HOME BUILDERS, LLC
PO BOX 334
STRATHAM, NH 03885

CIVIL ENGINEERS:



LAND SURVEYORS:



P.O. Box 681 - 24 CHESTNUT STREET
DOVER, NH 03820 (603) 742-0911

WETLAND / SOIL
CONSULTANT:

CAREX ECOSCIENCES
2 WASHINGTON STREET
DOVER, NH 03820
1-603-742-6665

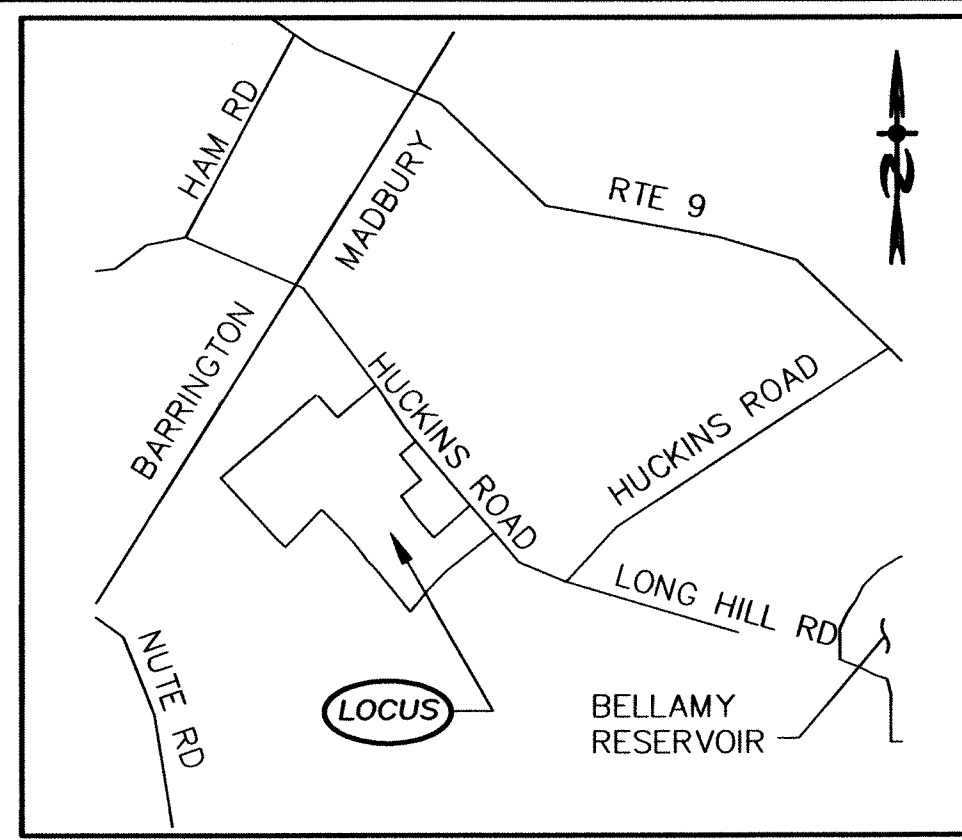
PLAN SET LEGEND

5/8" REBAR	●	OVERHEAD ELEC. LINE	— x —
DRILL HOLE	○	FENCING	— D — D —
CONC. BOUND	□	DRAINAGE LINE	— S —
UTILITY POLE	⊕	SEWER LINE	— G —
DRAIN MANHOLE	⊗	GAS LINE	— W —
EXISTING LIGHT POLE	☆	WATER LINE	— W —
EXISTING CATCH BASIN	⊠	STONE WALL	— W —
PROPOSED CATCH BASIN	⊠	TREE LINE	— W —
PINES, ETC.	☀	ABUT. PROPERTY LINES	— — — —
MAPLES, ETC.	☀	EXIST. PROPERTY LINES	— — — —
EXIST. SPOT GRADE	96x69	BUILDING SETBACK LINES	— — — —
PROP. SPOT GRADE	96x69	EXIST. CONTOUR	— — — —
DOUBLE POST SIGN	— — — —	PROP. CONTOUR	— — — —
SINGLE POST SIGN	— — — —	SOIL LINES

REQUIRED PERMITS

NHDES SUBDIVISION APPROVAL NUMBER:
NPDES APPROVAL NUMBER:

	REVISIONS:	DATE:
1	REVISED PER REVIEW COMMENTS	4/25/14



MADBURY N.H.
NOT TO SCALE

HIGH INTENSITY SOIL SURVEY KEY TO SOIL TYPES

HIGH INTENSITY SOIL SURVEYS UTILIZE A FIVE-PART CLASSIFICATION TO IDENTIFY SOIL TYPES. SYMBOLS A-E READ FROM LEFT TO RIGHT IN THE CLASSIFICATION.

SYMBOL A : DRAINAGE CLASS

- 1- EXCESSIVELY DRAINED
- 2- WELL DRAINED
- 3- MODERATELY WELL DRAINED
- 4- SOMEWHAT POORLY DRAINED
- 5- POORLY DRAINED
- 6- VERY POORLY DRAINED

SYMBOL B: PARENT MATERIAL

- 1- GLACIOFLUVIAL DEPOSITS (OUTWASH/TERRACES)
- 2- GLACIAL TILL
- 3- VERY FINE SAND AND SILT DEPOSITS
- 4- LOAMY/SANDY OVER SILT/CLAY DEPOSITS
- 5- SILT AND CLAY DEPOSITS
- 6- EXCAVATED, REGRADED, OR FILLED
- 7- ALLUVIAL DEPOSITS
- 8- ORGANIC MATERIALS - FRESHWATER
- 9- ORGANIC MATERIALS - TIDAL MARSH

SYMBOL C: RESTRICTIVE FEATURES

- 1- NONE
- 2- BOULDERY
- 3- MINERAL RESTRICTIVE LAYER WITHIN 40 INCHES OF SOIL SURFACE
- 4- BEDROCK PRESENT WITHIN 20 INCHES OF SOIL SURFACE
- 5- SUBJECT TO FLOODING (FLOODPLAIN)
- 6- DOES NOT MEET FILL STANDARDS (SEE PUBLICATION)
- 7- BEDROCK PRESENT 20-40 INCHES BELOW SOIL SURFACE
- 8- BEDROCK DEPTH VARIABLE (GENERALLY WITHIN 40 INCHES OF SOIL SURFACE)

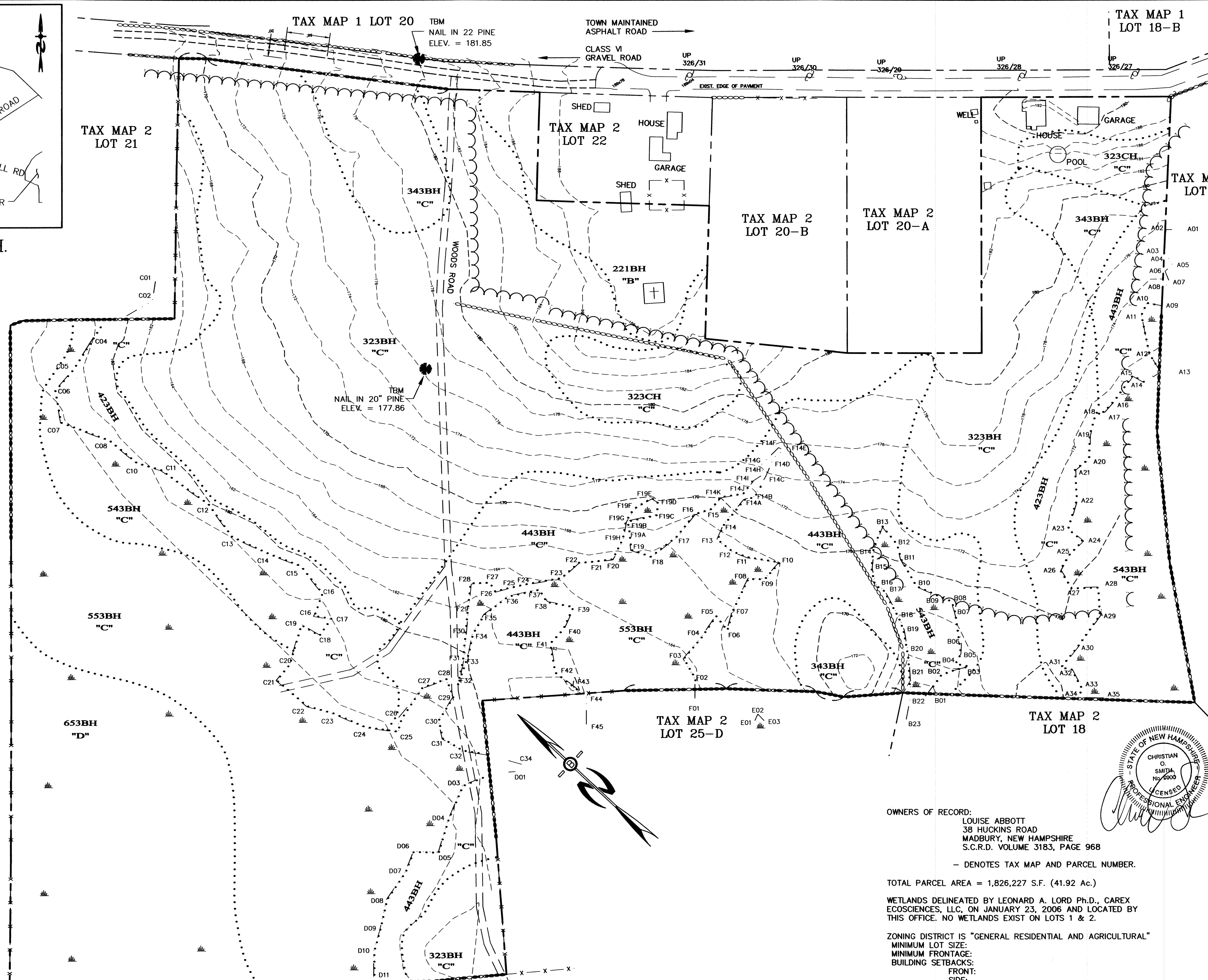
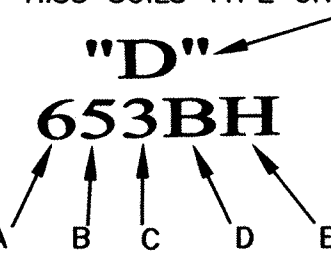
SYMBOL D: SLOPE CLASS

- B- 0% TO 8%
- C- 8% TO 15%
- D- 15% TO 25%
- E- 15% TO 25%
- F- 35%+

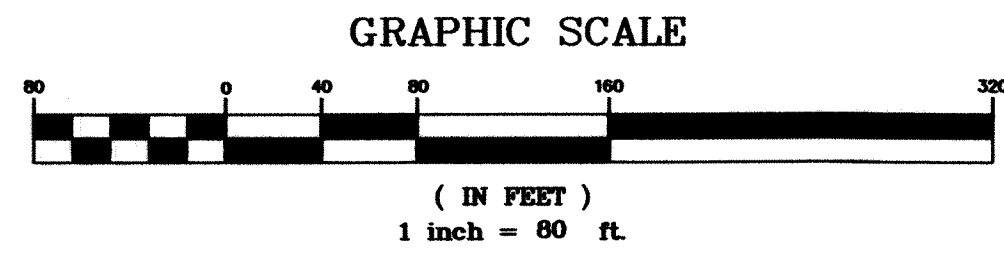
SYMBOL E: HIGH INTENSITY SOIL MAP IDENTIFIER

- H- MAP MEETS HIGH INTENSITY SOIL MAPPING STANDARDS
- P- MAP IS FOR PRELIMINARY PLANNING ONLY AND DOES NOT MEET STANDARDS

HSS SOILS TYPE GROUP



THIS SOIL MAP WAS PRODUCED IN ACCORDANCE WITH CRITERIA OUTLINED IN "HIGH INTENSITY SOIL MAPS FOR NEW HAMPSHIRE: STANDARDS" (SOCIETY OF SOIL SCIENTISTS OF NORTHERN NEW ENGLAND, 2002). THE POORLY AND VERY POORLY DRAINED SOIL TYPES UNDER THIS SYSTEM ARE BASED ON THE MOST RECENT VERSION OF "FIELD INDICATORS FOR IDENTIFYING HYDRIC SOILS IN NEW ENGLAND", WHICH IS VERSION 3 (NEW ENGLAND INTERSTATE WATER POLLUTION CONTROL COMMISSION, 2004). THE FIELD WORK FOR THIS MAP WAS CONDUCTED FEBRUARY 13, 2006 BY LEONARD A. LORD, Ph.D., NHCSS #19 AND DANIEL J. MILLER, NHSSA #24 OF CAREX ECOSCIENCES, LLC.



PREPARED FOR:
ONE HOME BUILDERS, LLC
PO BOX 334
STRATHAM, N.H. 03885

BEALS ASSOCIATES PLLC
70 PORTSMOUTH AVE, STRATHAM, N.H. 03885
PHONE: 603-583-4860, FAX: 603-583-4863

- #### NOTES
- THIS PLAN IS INTENDED TO PROVIDE MINIMUM GUIDELINES FOR SITE DEMOLITION. IT SHOULD BE NOTED THAT ALL MANMADE FEATURES, PAVEMENT, SIGNS, POLES, CURBING, CONCRETE WALKS, UTILITIES, ETC., SHALL BE REMOVED AS NECESSARY TO CONSTRUCT WORK, UNLESS OTHERWISE NOTED TO REMAIN THROUGHOUT THE CONSTRUCTION PROCESS. THE CONTRACTOR SHALL INFORM THE ENGINEER IMMEDIATELY OF ANY FIELD DISCREPANCIES FROM DATA AS SHOWN ON DESIGN PLANS. THIS INCLUDES ANY UNFORESEEN CONDITIONS, SUBSURFACE OR OTHERWISE FOR EVALUATION AND RECOMMENDATIONS. ANY CONTRADICTION BETWEEN ITEMS OF THIS PLAN/PLAN SET OR BETWEEN THE PLANS AND ON-SITE CONDITIONS MUST BE RESOLVED BEFORE RELATED CONSTRUCTION HAS BEEN INITIATED.
 - UNDERGROUND FACILITIES, UTILITIES AND STRUCTURES HAVE BEEN PLOTTED FROM FIELD OBSERVATION AND THEIR LOCATION MUST BE CONSIDERED APPROXIMATE ONLY. NEITHER BEALS ASSOCIATES, NOR ANY OF THEIR EMPLOYEES TAKE RESPONSIBILITY FOR THE LOCATION OF ANY UNDERGROUND STRUCTURES OR UTILITIES NOT SHOWN THAT MAY EXIST. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE ALL UNDERGROUND STRUCTURES AND/OR UTILITIES LOCATED PRIOR TO EXCAVATION WORK BY CALLING 1-888-DIG-SAFE (1-888-344-7233).
 - PROJECT DATUM: NAD83 HORIZONTAL AND NAVD83 VERTICAL
 - SUBJECT PROPERTY IS NOT LOCATED WITHIN FEDERALLY DESIGNATED FLOOD HAZARD ZONE PER FEMA COMMUNITY PANEL #33017C03050 DATED MAY 17, 2005.
 - PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR IS REQUIRED TO HAVE THE PROJECT LAND SURVEYOR STAKE OR FLAG CLEARING LIMITS. A MINIMUM OF 48 HOURS NOTICE IS REQUIRED. CLEARING LIMITS ARE THE EDGE OF THE PROPERTY AND THE LIMITS OF WORK.
 - ALL EXISTING STRUCTURES WITHIN THE CONSTRUCTION AREA, UNLESS OTHERWISE NOTED TO REMAIN, SHALL BE REMOVED AND DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL GUIDELINES. ANY BURNING ON-SITE SHALL BE SUBJECT TO LOCAL ORDINANCES.
 - ALL EXISTING UTILITIES SHALL BE TERMINATED AT THE PROPERTY LINE, UNLESS OTHERWISE NOTED ON THE PLANS, IN CONFORMANCE WITH LOCAL, STATE AND UTILITY COMPANY STANDARDS. SPECIFICATIONS AND DETAILS. THE CONTRACTOR SHALL COORDINATE UTILITY SERVICE DISCONNECTS WITH THE UTILITY REPRESENTATIVES PRIOR TO THE START OF WORK.
 - THE CONTRACTOR SHALL OBTAIN TREE CLEARING PERMIT FROM LOCAL AND STATE AUTHORITIES PRIOR TO START OF CONSTRUCTION (IF REQUIRED). ALL STUMPS AND DEBRIS TO BE REMOVED FROM SITE.
 - IN AREAS WHERE CONSTRUCTION IS PROPOSED ADJACENT TO ABUTTING PROPERTIES, THE CONTRACTOR SHALL INSTALL ORANGE CONSTRUCTION FENCING ALONG PROPERTY LINES IN ALL AREAS WHERE SILT FENCING IS NOT REQUIRED.
 - EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO CONSTRUCTION AND ANY EARTH MOVING OPERATIONS. SILT FENCE SHALL BE INSTALLED AT THE LIMITS OF IMPACT AREAS ACCORDING TO THE DETAILS SHOWN ON SHEET E1.

- #### WETLAND NOTES
- WETLANDS WERE DELINEATED BY LEONARD LORD OF CAREX ECOSCIENCES LLC ON JANUARY 2006 IN ACCORDANCE WITH THE 1987 CORPS OF ENGINEERS WETLANDS DELINEATION MANUAL.
 - DOMINANT HYDRIC SOIL CONDITIONS WITHIN THE WETLANDS WERE IDENTIFIED BY G.E.S. UTILIZING THE CRITERIA OF FIELD INDICATORS FOR IDENTIFYING HYDRIC SOILS IN NEW ENGLAND, VERSION 2 NEWPPC WETLANDS WORK GROUP (JULY 1999).
 - DOMINANCE OF WETLANDS VEGETATION WAS ASSESSED BY CAREX ECOSCIENCES LLC UTILIZING THE NATIONAL LIST OF PLANT SPECIES FOR NEW HAMPSHIRE DATED MAY 1998.
 - WETLANDS WERE CLASSIFIED BY G.E.S. ACCORDING TO THE CLASSIFICATION OF WETLANDS AND DEEP WATER HABITATS OF THE UNITED STATES (USEWS, 1979)
 - HIGH INTENSITY SOIL MAPPING WAS PERFORMED BY CAREX ECOSCIENCES LLC USING THE STANDARDS OF THE SOCIETY OF SOIL SCIENTISTS OF NORTHERN NEW ENGLAND SPECIAL PUBLICATION NUMBER 1. HIGH INTENSITY SOIL MAPS FOR NEW HAMPSHIRE STANDARDS, JAN 1994

OWNERS OF RECORD:
LOUISE ABBOTT
38 HUCKINS ROAD
MADBURY, NEW HAMPSHIRE
S.C.R.D. VOLUME 3183, PAGE 968
- DENOTES TAX MAP AND PARCEL NUMBER.

TOTAL PARCEL AREA = 1,826,227 S.F. (41.92 Ac.)

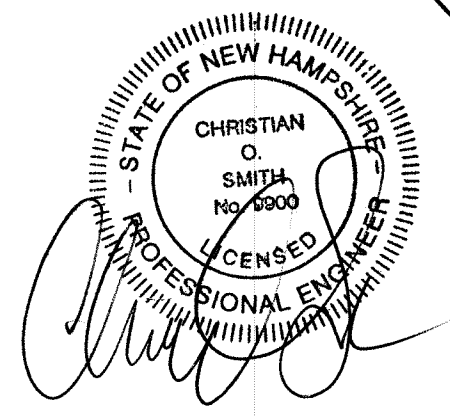
WETLANDS DELINEATED BY LEONARD A. LORD Ph.D., CAREX ECOSCIENCES, LLC, ON JANUARY 23, 2006 AND LOCATED BY THIS OFFICE. NO WETLANDS EXIST ON LOTS 1 & 2.

ZONING DISTRICT IS "GENERAL RESIDENTIAL AND AGRICULTURAL"
MINIMUM LOT SIZE:
MINIMUM FRONTAGE:
BUILDING SETBACKS:
FRONT:
SIDE:

THE INTENT OF THIS PLAN IS TO CREATE _ NEW SINGLE FAMILY LOTS ON PARCEL 2/20.

ALL UTILITIES SHALL BE UNDERGROUND.

NHDES SUBDIVISION APPROVAL No. _____

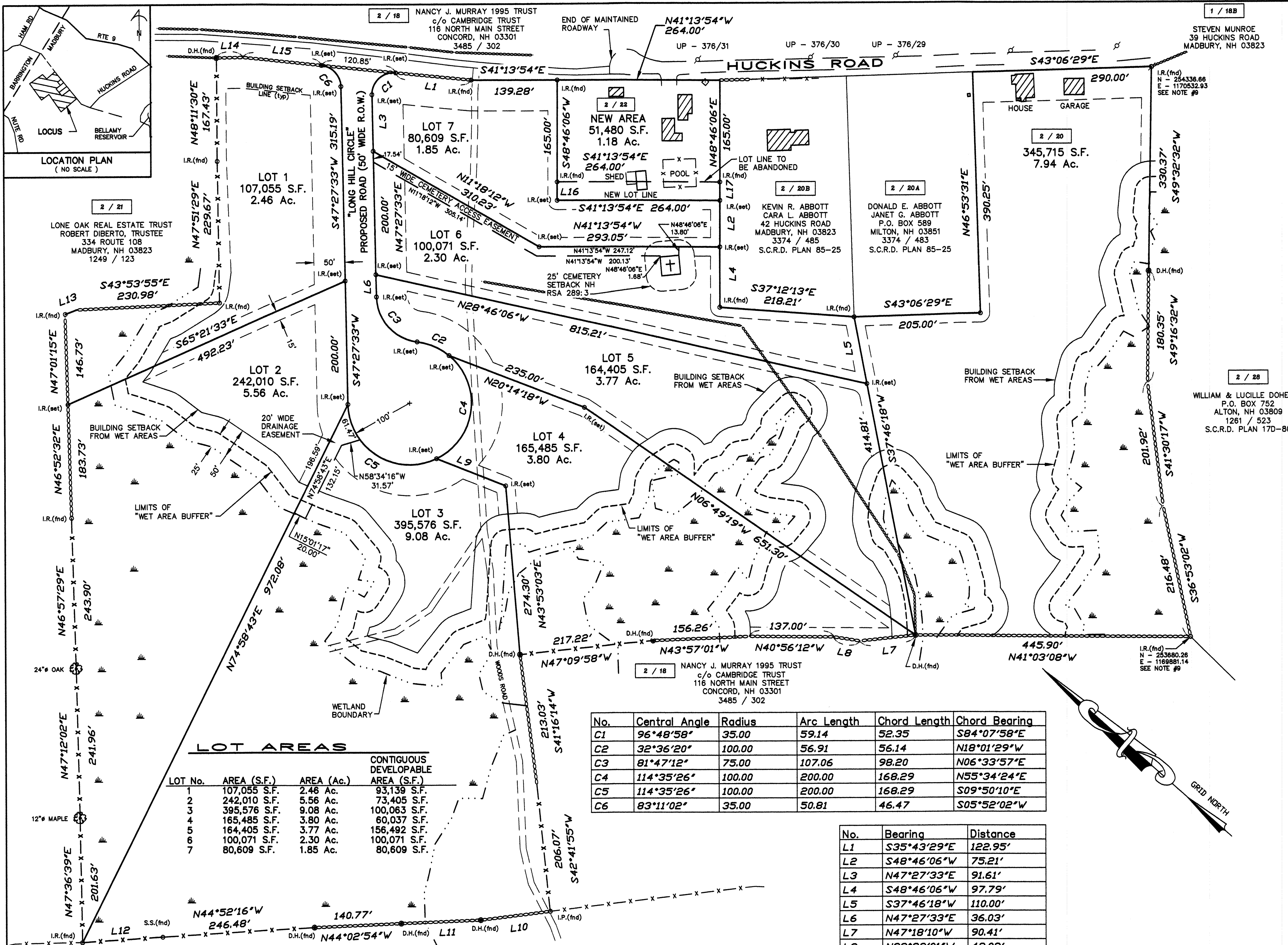


REVISED PER REVIEW COMMENTS	4/25/14
REVISIONS:	DATE:

EXISTING CONDITIONS

PLAN FOR:
JASPER'S CORNER
HUCKINS ROAD
MADBURY, NH

DATE: MARCH, 2014	SCALE: 1"=80'
PROJ. NO: NH-767	SHEET NO. 1 OF 10



REFERENCE PLANS:

- SUBDIVISION PLAN PREPARED FOR LOUISE ABBOTT, TAX MAP 2, LOT No. 20, LONG HILL ROAD, TOWN OF MADBURY, COUNTY OF STRAFFORD, STATE OF NEW HAMPSHIRE, SCALE: 1" = 80'; DATED: JANUARY 2006, REVISED THROUGH 4/4/06; BY McENEANEY SURVEY ASSOCIATES, INC.; RECORDED S.C.R.D. PLAN 85-25.
- PLAN OF SUBDIVISION FOR DONALD CAMMETT & MYRA COOK, LONG HILL ROAD, MADBURY, NEW HAMPSHIRE, SCALE: 1" = 100'; DATED: MAY 1978; BY K.E. MOORE; RECORDED S.C.R.D. PLAN 170-80.
- SUBDIVISION PLAN, JOSIAH FISHER, MADBURY, N.H.; SCALE: 1" = 100'; DATED: NOVEMBER 1987; BY FREDERICK E. DREW ASSOCIATES; RECORDED S.C.R.D. PLAN 32-61.
- REVISED BOUNDARY PLAN, OX PASTURE, MADBURY, N.H.; SCALE: 1" = 100'; DATED: SEPTEMBER 1986; BY FREDERICK E. DREW ASSOCIATES; RECORDED S.C.R.D. PLAN 30-12.

NOTES:

- OWNER OF RECORD:
2 / 20 LOUISE M. ABBOTT
 38 HUCKINS ROAD
 MADBURY, NEW HAMPSHIRE 03823
 S.C.R.D. VOLUME 3183, PAGE 968
- 2 / 22 FRED & LINNETTE ROSS
 44 HUCKINS ROAD
 MADBURY, NEW HAMPSHIRE 03823
 S.C.R.D. VOLUME 1193, PAGE 523
- CLIENT:
 ONE HOME BUILDERS, LLC
 P.O. BOX 334
 STRATHAM, NH
- 2 / 20 - DENOTES TAX MAP AND PARCEL NUMBER.
- TOTAL PARCEL AREA = 1,666,174 S.F. (38.25 Ac.)
- THE INTENT OF THIS PLAN IS TO SUBDIVIDE PARCEL 2/20 TO CREATE 8 SINGLE FAMILY RESIDENTIAL LOTS TO BE SERVICED BY ONSITE WELLS AND SEPTIC SYSTEMS.
- WETLANDS DELINEATED BY LEONARD A. LORD Ph.D., CAREX ECOSCIENCES, LLC, ON JANUARY 23, 2006 AND LOCATED BY THIS OFFICE.
- HIGH INTENSITY SOIL MAP FIELDWORK CONDUCTED FEBRUARY 13, 2006 BY LEONARD A. LORD, Ph.D., NHCSS #19, AND DANIEL J. MILLER, NHSSA #24 OF CAREX ECOSCIENCES, LLC.
- ZONING DISTRICT IS "GENERAL RESIDENTIAL AND AGRICULTURAL"
 MINIMUM LOT SIZE: = 80,000 S.F.
 MINIMUM FRONTAGE: = 200 FEET
 BUILDING SETBACKS:
 FRONT = 50 FEET
 SIDE = 15 FEET
- THE PARCEL IS AFFECTED BY THE WET AREA OVERLAY DISTRICT - WC.
 WET AREA BUFFER = 25 FEET
 BUILDING & SEPTIC = 50 FEET (POORLY DRAINED SOIL)
- BASIS OF BEARING AND COORDINATES SHOWN ARE NH STATE PLANE, NAD83.
- THE PARCEL IS NOT LOCATED WITHIN A SPECIAL FLOOD HAZARD ZONE AS SHOWN ON FLOOD INSURANCE RATE MAP (FIRM) PANEL 33017C0305D, EFFECTIVE DATE MAY 17, 2005.
- CERTIFICATION OF MONUMENTATION SET WILL BE COMPLETED AND DELIVERED TO THE TOWN UPON COMPLETION.

LOT AREAS

LOT No.	AREA (S.F.)	AREA (Ac.)	CONTIGUOUS DEVELOPABLE AREA (S.F.)
1	107,055 S.F.	2.46 Ac.	93,139 S.F.
2	242,010 S.F.	5.56 Ac.	73,405 S.F.
3	395,576 S.F.	9.08 Ac.	100,063 S.F.
4	165,485 S.F.	3.80 Ac.	80,037 S.F.
5	164,405 S.F.	3.77 Ac.	156,492 S.F.
6	100,071 S.F.	2.30 Ac.	100,071 S.F.
7	80,609 S.F.	1.85 Ac.	80,609 S.F.

No.	Central Angle	Radius	Arc Length	Chord Length	Chord Bearing
C1	96°48'58"	35.00	59.14	52.35	S84°07'58"E
C2	32°36'20"	100.00	56.91	56.14	N18°01'29"W
C3	81°47'12"	75.00	107.06	98.20	N06°33'57"E
C4	114°35'26"	100.00	200.00	168.29	N55°34'24"E
C5	114°35'26"	100.00	200.00	168.29	S09°50'10"E
C6	83°11'02"	35.00	50.81	46.47	S05°52'02"W

No.	Bearing	Distance
L1	S35°43'29"E	122.95'
L2	S48°46'06"W	75.21'
L3	N47°27'33"E	91.61'
L4	S48°46'06"W	97.79'
L5	S37°46'18"W	110.00'
L6	N47°27'33"E	36.03'
L7	N47°18'10"W	90.41'
L8	N32°33'01"W	43.03'
L9	N19°42'41"W	120.12'
L10	N48°22'37"W	113.50'
L11	N43°42'46"W	128.60'
L12	N45°03'59"W	130.29'
L13	S62°21'26"E	20.63'
L14	S42°11'46"E	42.95'
L15	S35°43'29"E	127.87'
L16	S48°46'06"W	30.00'
L17	S48°46'06"W	30.00'

- LEGEND**
- I.R.(fd) - IRON ROD (FOUND)
 - D.H.(fd) - DRILL HOLE (FOUND)
 - D.H.(set) - DRILL HOLE (SET)
 - I.R.(set) - IRON ROD WITH ID CAP #661 (SET)
 - — — — — STONE WALL
 - — — — — REMAINS OF BARBED WIRE FENCE
 - — — — — TREE
 - — — — — WETLAND BOUNDARY
 - — — — — STRAFFORD COUNTY REGISTRY OF DEEDS
 - S.F. - SQUARE FEET
 - Ac. - ACRES
 - typ. - TYPICAL
 - ∅ - DIAMETER
 - — — — — UTILITY POLE AND IDENTIFICATION #
 - UP - 376/31

"I HEREBY CERTIFY THAT THIS PLAN IS BASED ON AN ACTUAL GROUND SURVEY PERFORMED WITH A TOTAL STATION, BY ME OR THOSE UNDER MY DIRECT SUPERVISION AND THAT, TO THE BEST OF MY KNOWLEDGE AND BELIEF, SAID SURVEY MEETS OR EXCEEDS THE MINIMUM PRECISION REQUIREMENTS FOR SURVEY CLASSIFICATION "U" AS SET FORTH IN TABLE 500.1 OF THE NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES OF THE BOARD OF LICENSURE FOR LAND SURVEYORS."

4/25/14 *Kevin M. McEneaney*
 DATE: / KEVIN M. McENEANEY LLS # 661

SUBDIVISION PLAN OF "JASPER'S CORNER"
 PREPARED FOR
ONE HOME BUILDERS LLC
 AND
FRED & LINNETTE ROSS
 TAX MAP 2, LOT No.s 20 & 22
HUCKINS ROAD
TOWN of MADBURY
COUNTY of STRAFFORD
STATE of NEW HAMPSHIRE

DRAWN BY: *KJF* FILE: VR CP\1616\14-1616.DWG
 SCALE: 1" = 80' DATE: MARCH 17, 2014

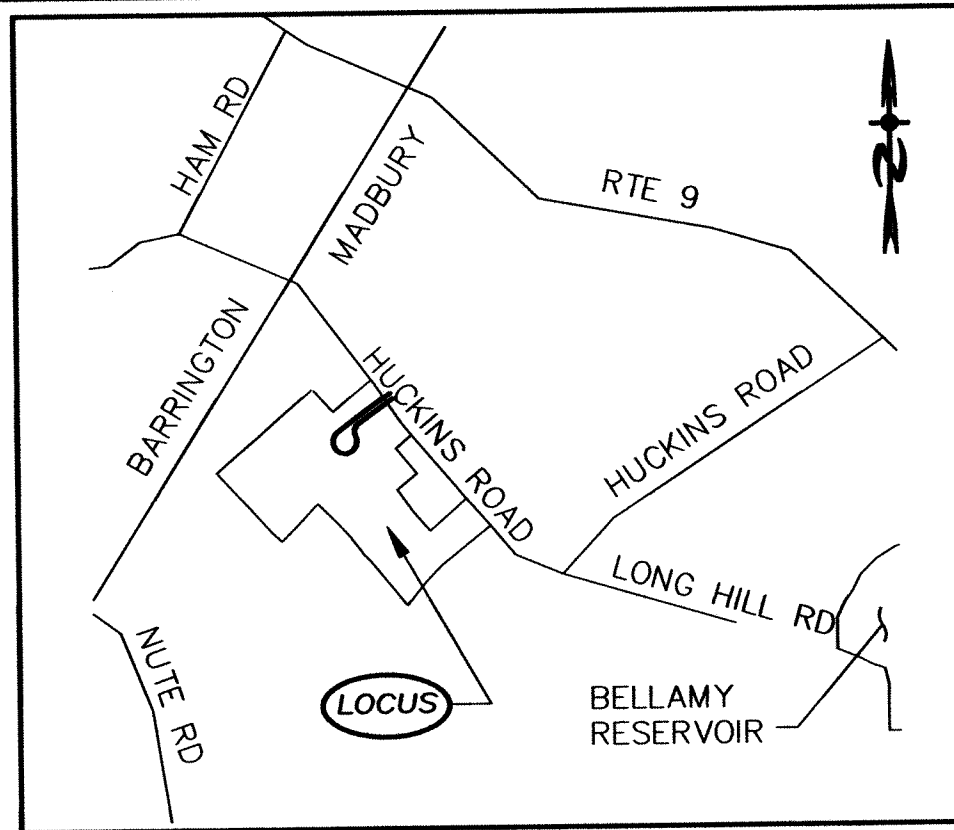


McEneaney Survey Associates, inc.
 P.O. Box 681 - 24 CHESTNUT STREET
 DOVER, NH 03820 (603) 742-0911
 SURVEYING - PLANNING - CONSULTING

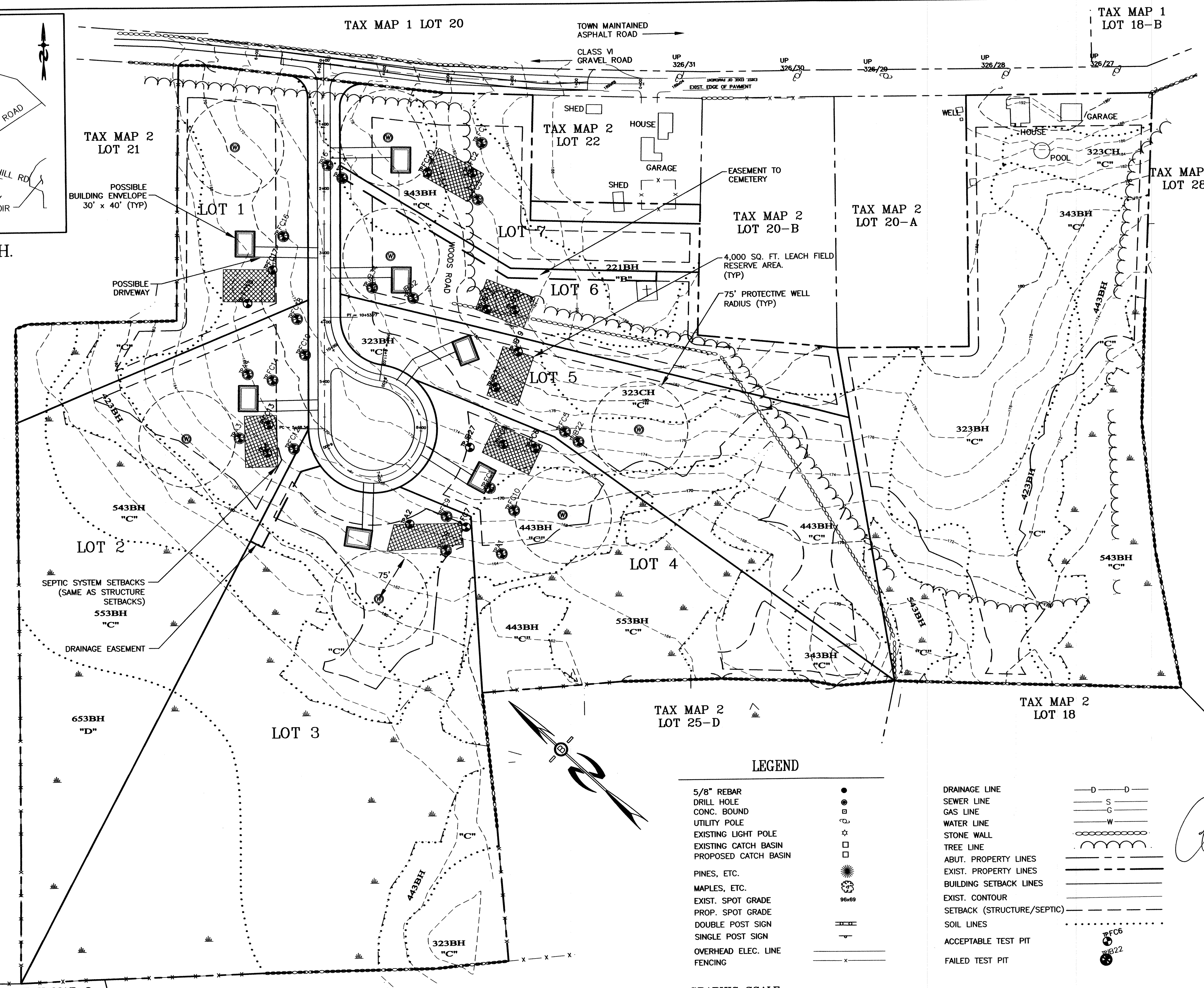
NO.	DATE	DESCRIPTION	BY	CHK
1	4/25/14	PER REVIEW COMMENTS	KJF	
REVISIONS				
14-1616	SUBDIVISION	14-02	1-7	
PROJECT NO	TYPE	FIELDBOOK & PAGES		

2 / 28C NOREEN GAETJENS REVOCABLE TRUST
 P.O. BOX 282
 BARRINGTON, NH 03825
 3722 / 226
 S.C.R.D. PLAN 30-12

2 / 28D GERARD PAPE
 NANCY PIERPOINT
 57 NUTE ROAD
 MADBURY, NH 03823
 1662 / 439
 S.C.R.D. PLAN 32-61



MADBURY N.H.
NOT TO SCALE



PREPARED FOR:
ONE HOME BUILDERS, LLC
PO BOX 334
STRATHAM, N.H. 03885

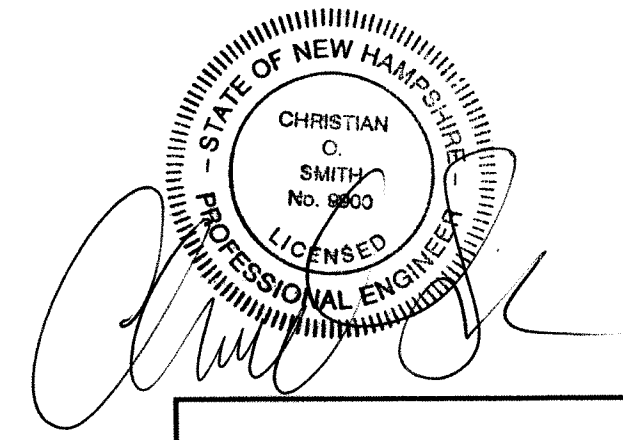
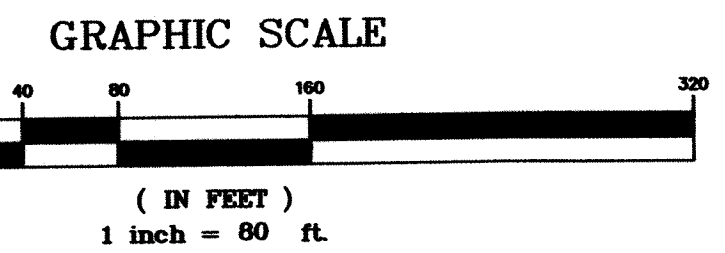
BEALS ASSOCIATES PLLC
70 PORTSMOUTH AVE, STRATHAM, N.H. 03885
PHONE: 603-583-4860, FAX: 603-583-4863

NOTES

1. THIS PLAN HAS BEEN PREPARED BY BEALS ASSOCIATES, PLLC, FOR MUNICIPAL AND STATE APPROVALS AND FOR CONSTRUCTION BASED ON DATA OBTAINED FROM ONSITE FIELD SURVEY AND EXISTING MUNICIPAL RECORDS. THROUGHOUT THE CONSTRUCTION PROCESS, THE CONTRACTOR SHALL INFORM THE ENGINEER IMMEDIATELY OF ANY FIELD DISCREPANCY FROM DATA AS SHOWN ON THE DESIGN PLANS. THIS INCLUDES ANY UNFORESEEN CONDITIONS, SUBSURFACE OR OTHERWISE, FOR EVALUATION AND RECOMMENDATIONS. ANY CONTRADICTION BETWEEN ITEMS OF THIS PLAN/PLAN SET, OR BETWEEN THE PLANS AND ONSITE CONDITIONS MUST BE RESOLVED BEFORE RELATED CONSTRUCTION HAS BEEN INITIATED.
2. UNDERGROUND FACILITIES, UTILITIES AND STRUCTURES HAVE BEEN PLOTTED FROM FIELD OBSERVATIONS AND THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. BEALS ASSOCIATES OR ANY OF THEIR EMPLOYEES TAKE NO RESPONSIBILITY FOR THE LOCATION OF ANY UNDERGROUND STRUCTURES OR UTILITIES NOT SHOWN, THAT MAY EXIST. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE ALL UNDERGROUND UTILITIES OR STRUCTURES LOCATED PRIOR TO EXCAVATION WORK BY CALLING 1-888-344-7233
3. BENCHMARK: ELEVATIONS BASED ON USGS, TBM'S LOCATED AS SHOWN ON THE SITE PLAN.
4. ALL BENCHMARKS AND TOPOGRAPHY SHOULD BE FIELD VERIFIED BY THE CONTRACTOR.
5. ALL CONSTRUCTION METHODS AND MATERIALS WILL CONFORM TO THE TOWN OF MADBURY STANDARD SPECIFICATIONS AND TO N.H.D.O.T. STANDARDS AND REGULATIONS.
6. ALL DRIVEWAY CULVERTS TO BE MIN. 15" ADS N-12 AND TO HAVE MASONRY HEADWALLS UNLESS FLARED END SECTIONS ARE SPECIFIED ON THE PLANS.
7. ALL PROPOSED LOTS ARE TO BE ONE SINGLE FAMILY RESIDENCE ONLY.
8. ALL HOMES SHALL BE CONTAIN SPRINKLER SYSTEMS.

LEGEND

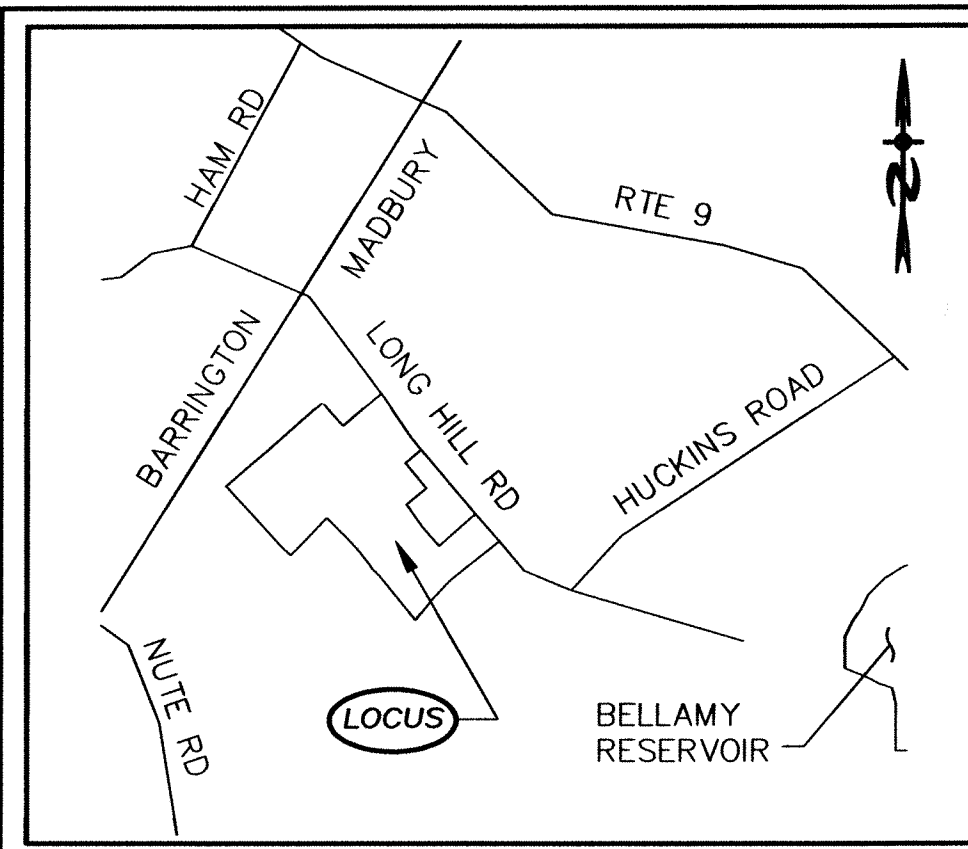
- | | | | |
|----------------------|-------|----------------------------|-----------|
| 5/8" REBAR | ● | DRAINAGE LINE | -D-D- |
| DRILL HOLE | ○ | SEWER LINE | -S- |
| CONC. BOUND | ⊙ | GAS LINE | -G- |
| UTILITY POLE | ⊕ | WATER LINE | -W- |
| EXISTING LIGHT POLE | ⊗ | STONE WALL | — — — — — |
| EXISTING CATCH BASIN | □ | TREE LINE | ~~~~~ |
| PROPOSED CATCH BASIN | □ | ABUT. PROPERTY LINES | — · — · — |
| PINES, ETC. | ⊙ | EXIST. PROPERTY LINES | — — — — — |
| MAPLES, ETC. | ⊙ | BUILDING SETBACK LINES | — · — · — |
| EXIST. SPOT GRADE | 96.69 | EXIST. CONTOUR | — · — · — |
| PROP. SPOT GRADE | 96.69 | SETBACK (STRUCTURE/SEPTIC) | — · — · — |
| DOUBLE POST SIGN | — — — | SOIL LINES | · · · · · |
| SINGLE POST SIGN | — — | ACCEPTABLE TEST PIT | ⊙ |
| OVERHEAD ELEC. LINE | — — — | FAILED TEST PIT | ⊙ |
| FENCING | —x—x— | | |



REVISIONS:	
REVISED PER REVIEW COMMENTS	4/25/14
DATE:	
SUBDIVISION SITE PLAN	
PLAN FOR: JASPER'S CORNER HUCKINS ROAD MADBURY, NH	
DATE: MARCH, 2014	SCALE: 1"=80'
PROJ. NO: NH-767	SHEET NO. 3 OF 10

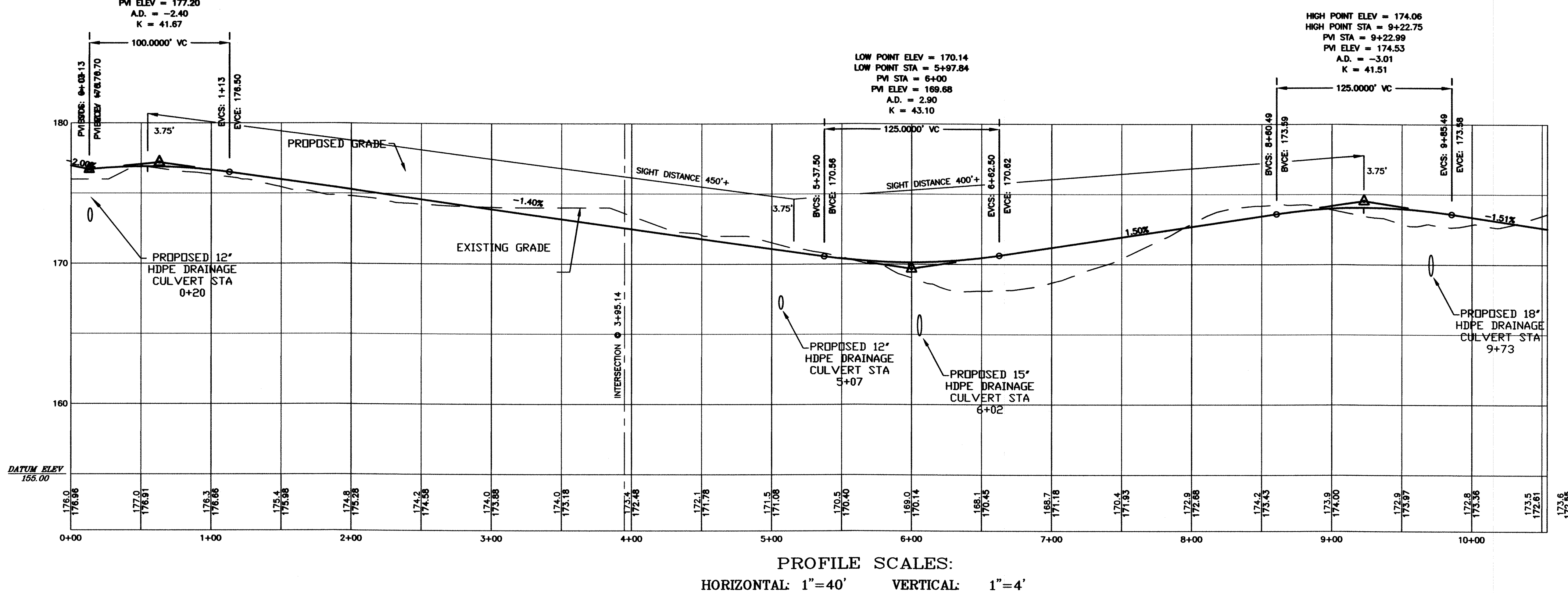
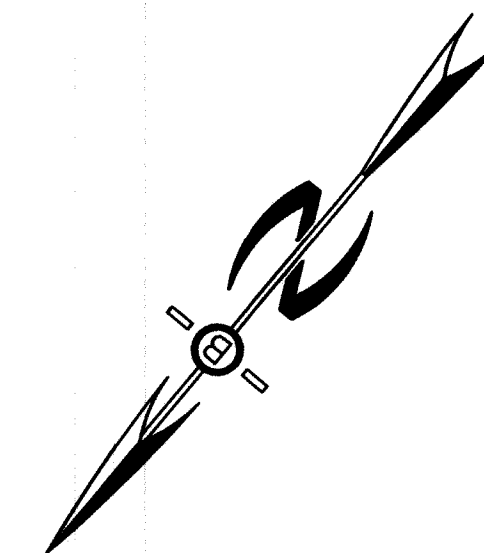
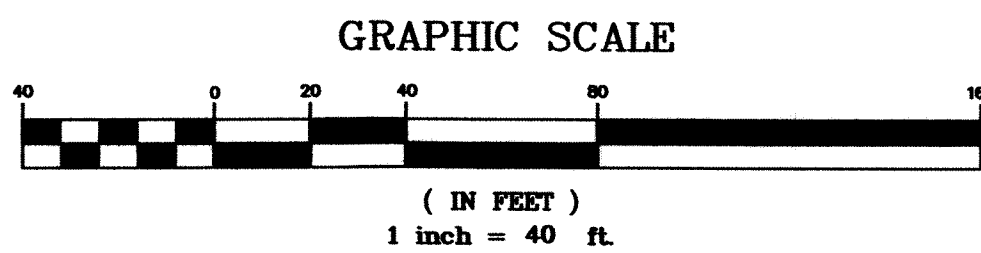
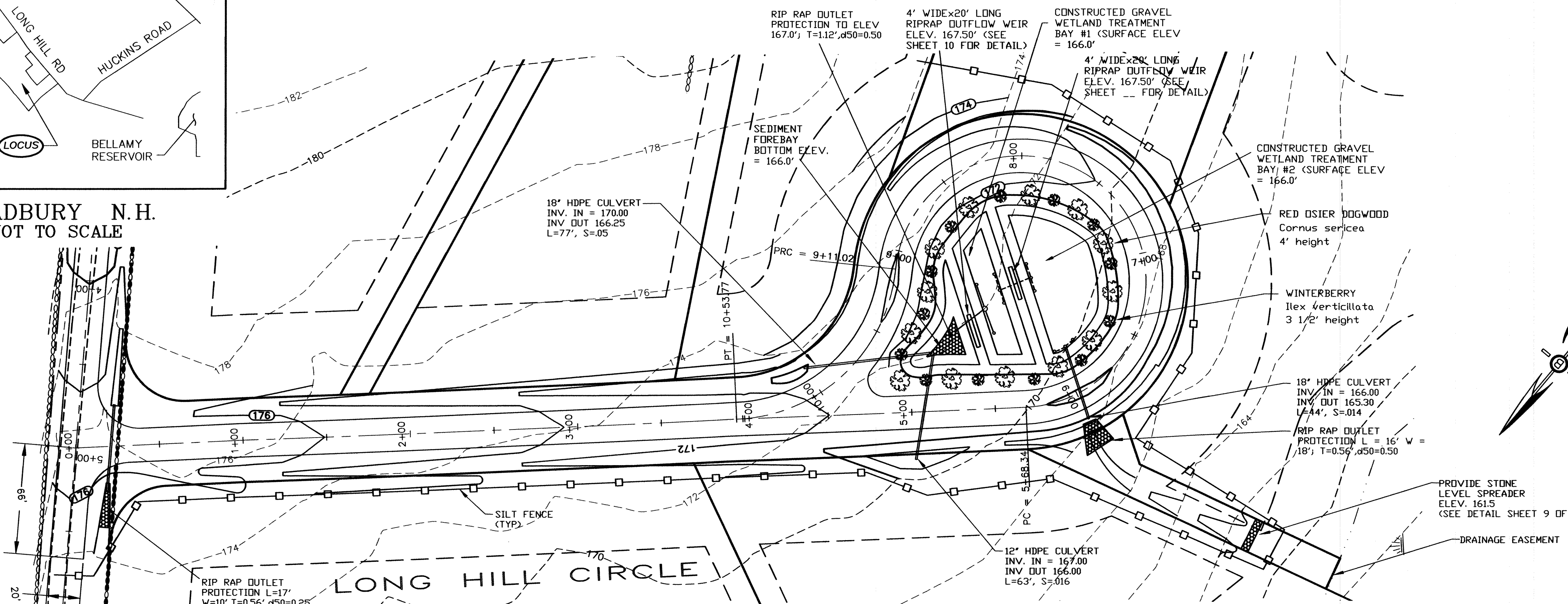
PREPARED FOR:
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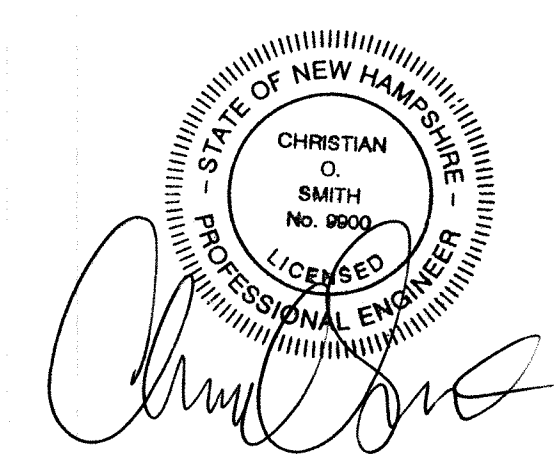
MADBURY N.H.
 NOT TO SCALE

HUCKINS ROAD



PROPOSED ROAD

REVISIONS:	DATE:
REVISED PER REVIEW COMMENTS	4/25/14
P2 PLAN AND PROFILE	
PLAN FOR: JASPER'S CORNER HUCKINS ROAD MADBURY, NH	
DATE: MARCH, 2014	SCALE: AS SHOWN
PROJ. NO: NH-767	SHEET NO. 5 OF 10



STONE BERM LEVEL SPREADER

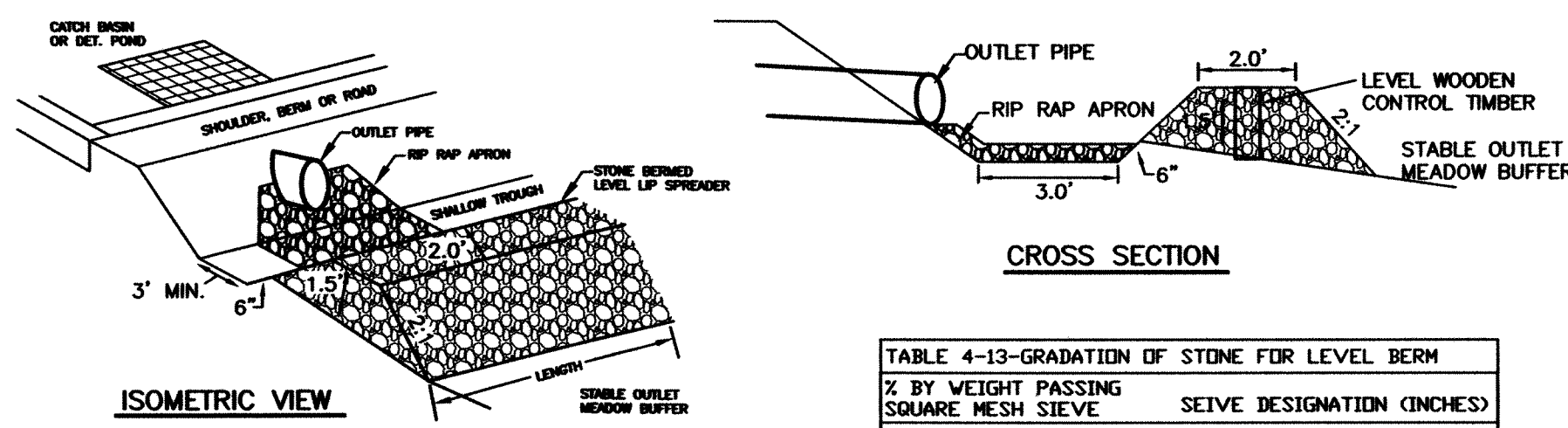
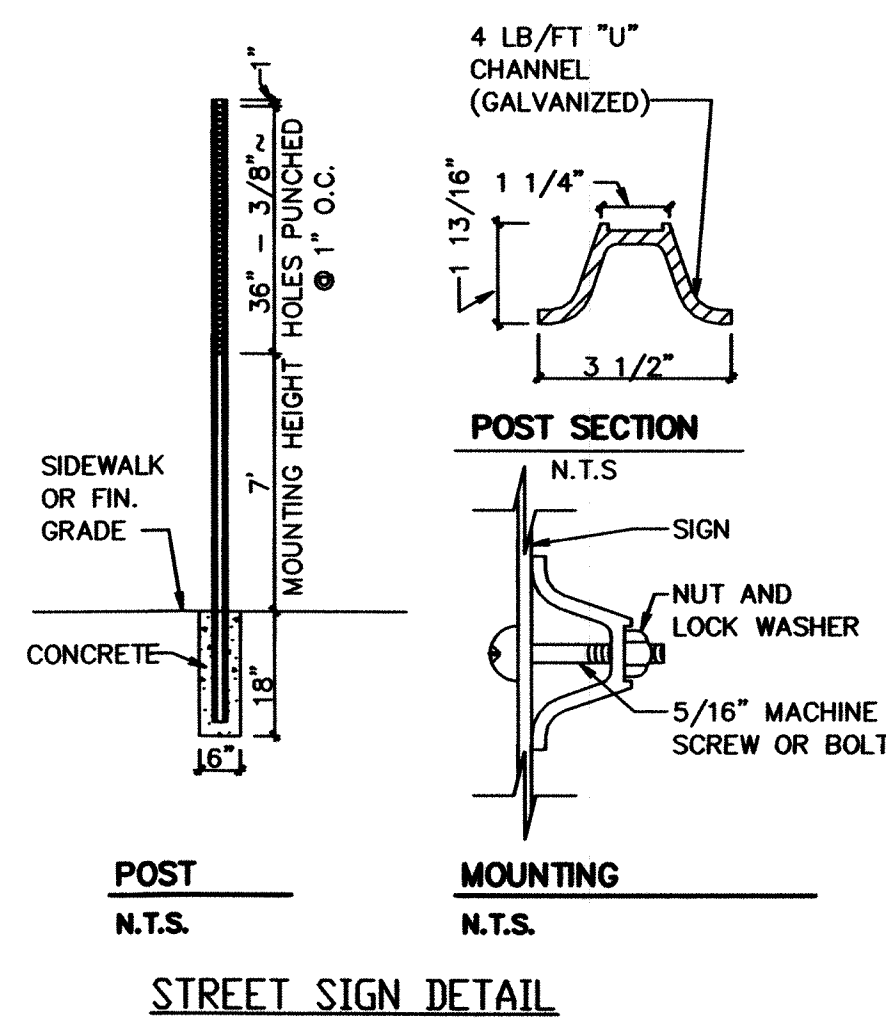


TABLE 4-13-GRADATION OF STONE FOR LEVEL BERM

% BY WEIGHT PASSING SQUARE MESH SIEVE	SEIVE DESIGNATION (INCHES)
100%	12
84%-100%	6
68%-83%	3
42%-55%	1
8%-12%	No. 4

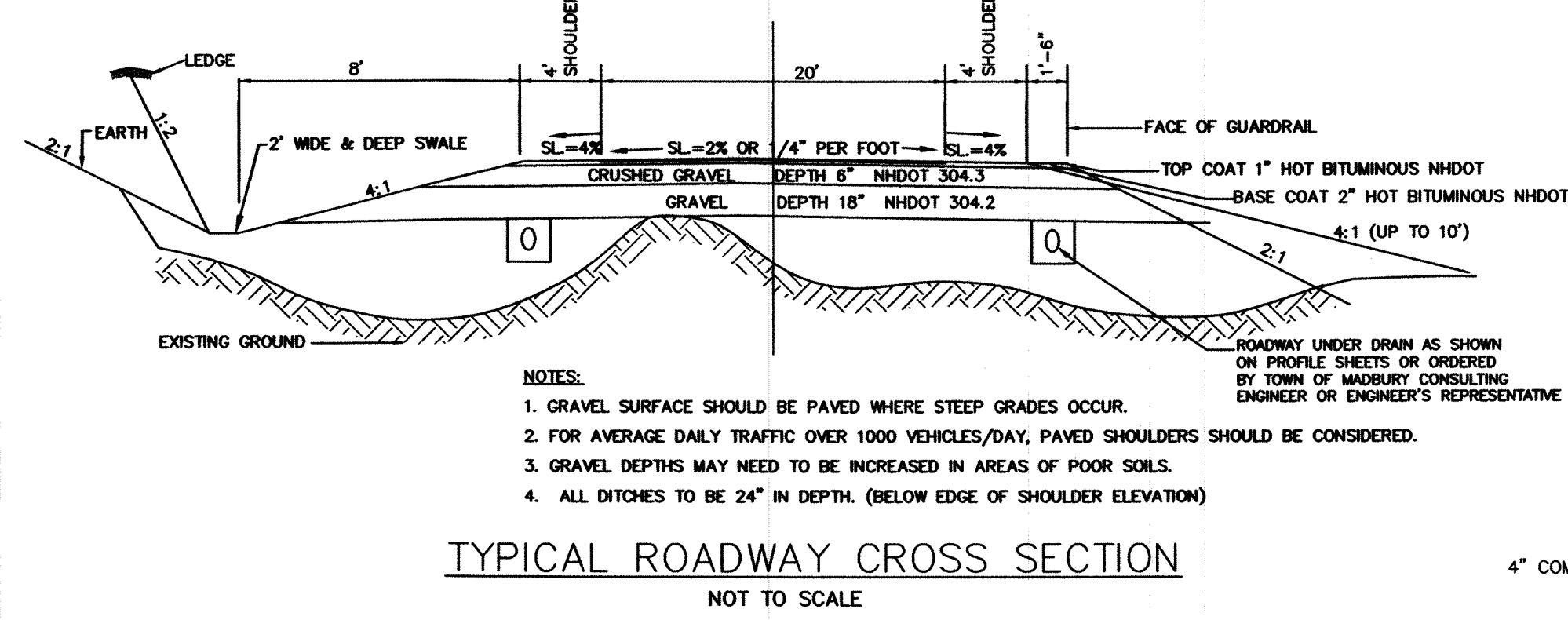
LEVEL SPREADER

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



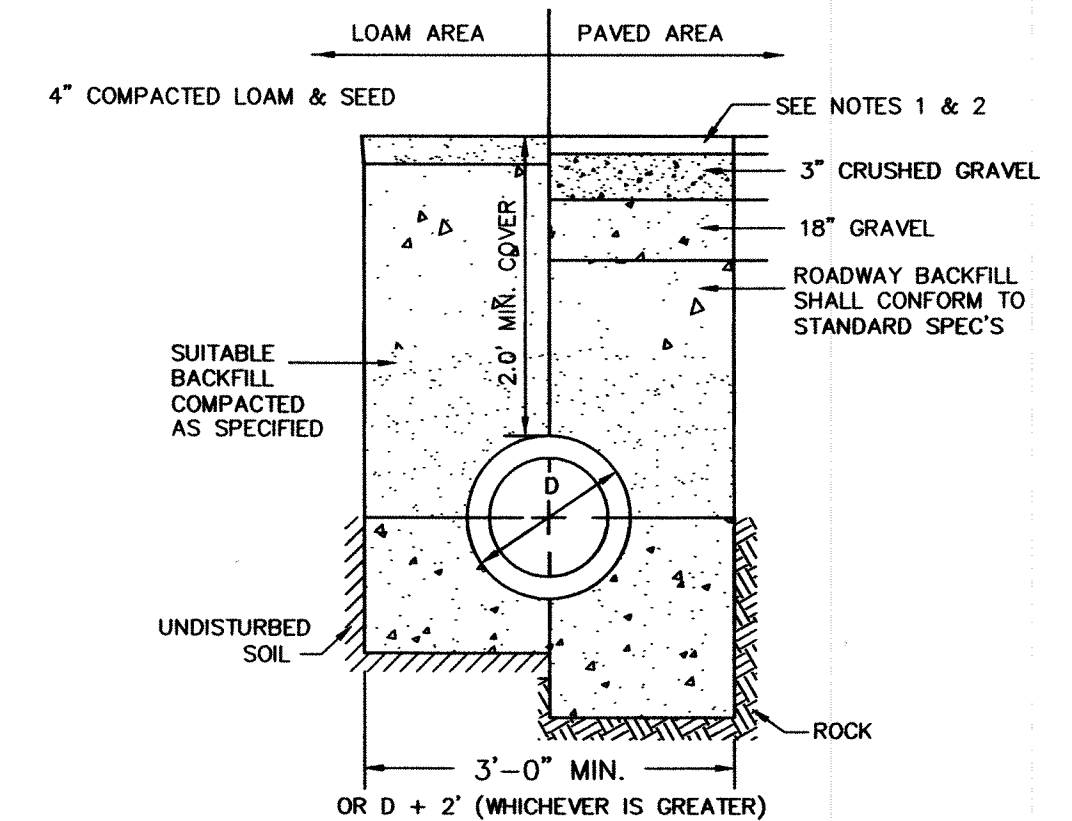
STREET SIGN DETAIL

STOP SIGN (R1-1) 30" x 30"
SPEED LIMIT SIGN (R2-1) 24" x 30"



TYPICAL ROADWAY CROSS SECTION

- NOTES:
- GRAVEL SURFACE SHOULD BE PAVED WHERE STEEP GRADES OCCUR.
 - FOR AVERAGE DAILY TRAFFIC OVER 1000 VEHICLES/DAY, PAVED SHOULDERS SHOULD BE CONSIDERED.
 - GRAVEL DEPTHS MAY NEED TO BE INCREASED IN AREAS OF POOR SOILS.
 - ALL DITCHES TO BE 24" IN DEPTH. (BELOW EDGE OF SHOULDER ELEVATION)



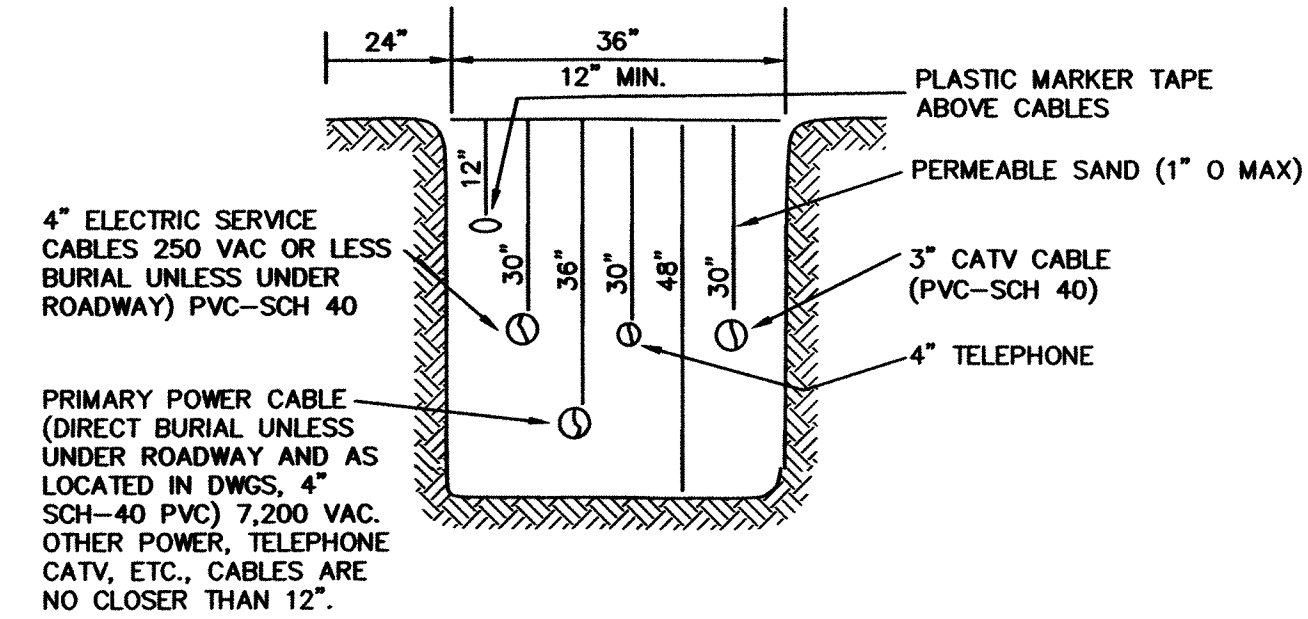
- NOTES:
- PAVEMENT REPAIR IN EXISTING ROADWAYS SHALL CONFORM TO STREET OPENING REGULATIONS.
 - NEW ROADWAY CONSTRUCTION SHALL CONFORM TO SUBDIVISION SPECIFICATIONS.

TYPICAL DRAINAGE TRENCH

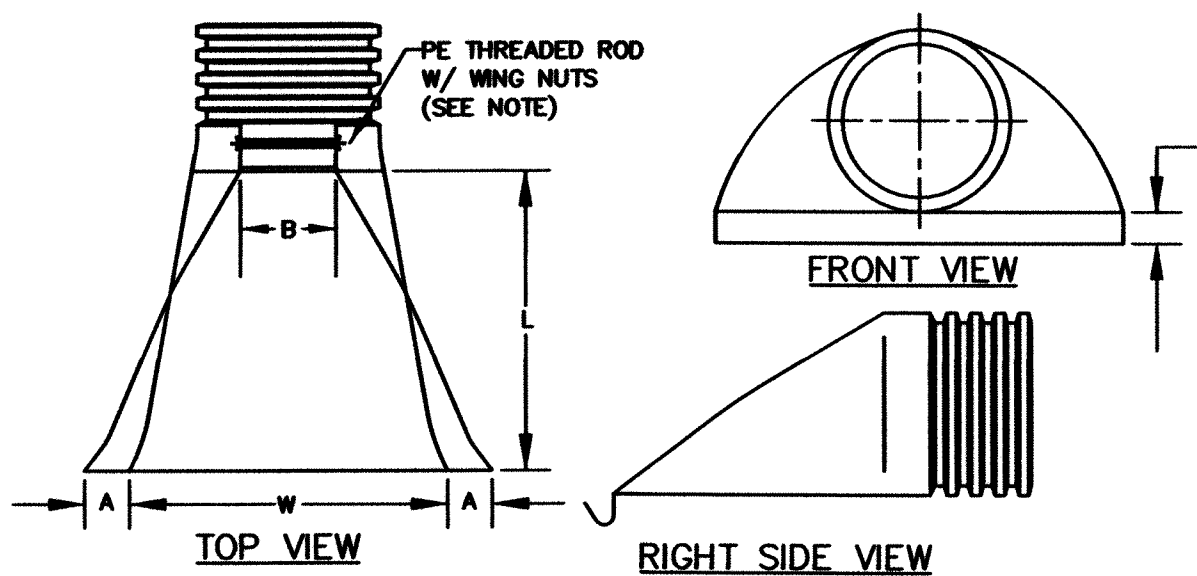
NOT TO SCALE

NOTE: ALL UTILITIES SHALL BE REVIEWED AND APPROVED BY APPROPRIATE UTILITY COMPANY.

SERVICE BOX CONNECTIONS SHALL BE "FLUSH MOUNT" TO GREATEST EXTENT POSSIBLE AND LOCATED AT PROPERTY LINE CORNERS.



UTILITY TRENCH DETAIL

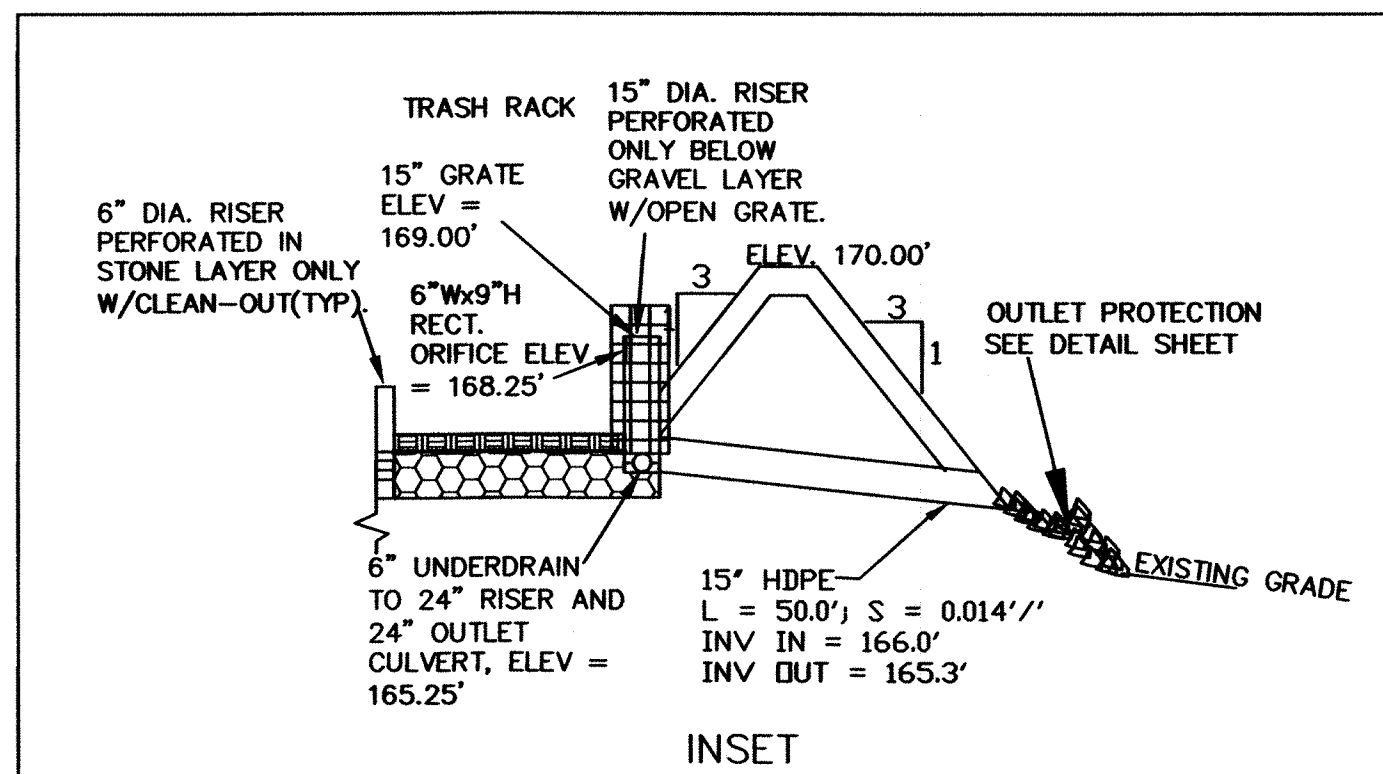


PART No.	PIPE SIZE	A	B(MAX)	H	L	W
1510-NP	15"	6.5"	10"	6.5"	25"	29"
1810-NP	18"	7.5"	15"	6.5"	32"	35"
2410-NP	24"	7.5"	15"	6.5"	36"	45"
3010-NP	30"	10.5"	N/A	7.0"	53"	68"
3610-NP	36"	10.5"	N/A	7.0"	53"	68"

NOTE: PE THREADED ROD W/ WING NUTS PROVIDED FOR END SECTIONS 15"-24". 30" & 36" END SECTIONS TO BE WELDED PER MANUFACTURER'S RECOMMENDATIONS.

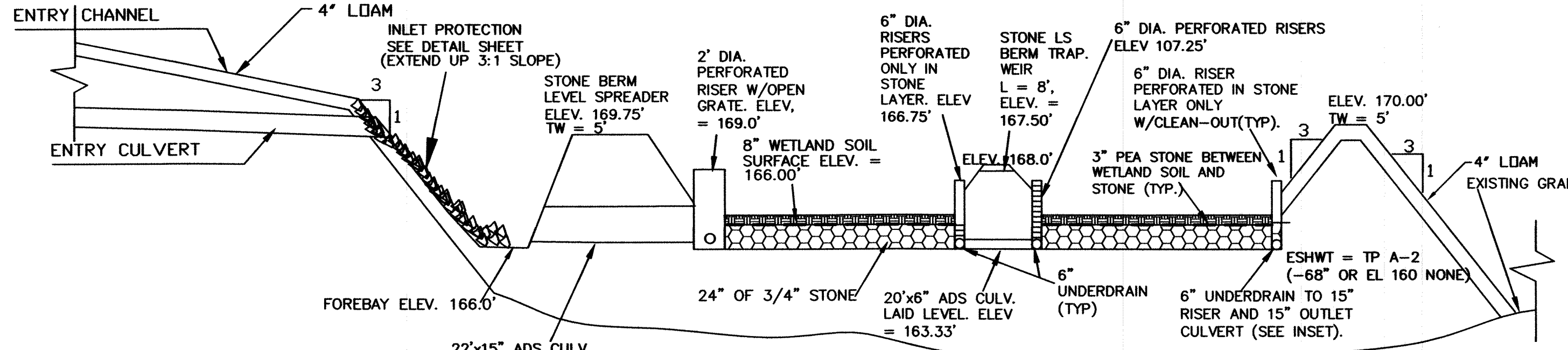
ADS N-12 FLARED END SECTIONS

NOT TO SCALE (ALL DIMENSIONS ARE NOMINAL)



INSET

SEED ALL SLOPES WITH BLUE SEAL SCS CONSERVATION MIX AT 2 lbs./1000 S.F.



SECTION OF GRAVEL WETLAND

NOT TO SCALE

CONSTRUCTION SPECIFICATIONS

- THE SUB GRADE FOR THE FILTER MATERIAL, GEOTEXTILE FABRIC, AND RIP RAP SHALL BE PREPARED TO THE LINES AND GRADES SHOWN ON THE PLANS.
 - THE ROCK OR GRAVEL USED FOR FILTER OF RIP RAP SHALL CONFORM TO THE SPECIFIED GRADATION.
 - GEOTEXTILE FABRICS SHALL BE PROTECTED FROM PUNCTURE OR TEARING DURING THE PLACEMENT OF THE ROCK RIP RAP. DAMAGED AREAS IN THE FABRIC SHALL BE REPAIRED BY PLACING A PIECE OF FABRIC OVER THE DAMAGED AREA OR BY COMPLETE REPLACEMENT OF THE FABRIC. ALL OVERLAPS REQUIRED FOR REPAIRS OR JOINING TWO PIECES OF FABRIC SHALL BE A MINIMUM OF 12 INCHES.
 - 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.
 - STONE FOR RIPRAP SHALL BE ANGULAR OR SUBANGULAR. THE STONES SHOULD BE SHAPED SO THAT THE LEAST DIMENSION OF THE STONE FRAGMENT SHALL BE NOT LESS THAN ONE-THIRD OF THE GREATEST DIMENSION OF THE FRAGMENT.
 - FLAT ROCKS SHALL NOT BE USED FOR RIP RAP. VOIDS IN THE ROCK RIPRAP SHOULD BE FILLED WITH SPALLS AND SMALLER ROCKS.
- MAINTENANCE**
- THE OUTLET PROTECTION SHOULD BE CHECKED AT LEAST ANNUALLY AND AFTER EVERY MAJOR STORM. IF THE RIP RAP HAS BEEN DISPLACED, UNDERMINED OR DAMAGED, IT SHOULD BE REPAIRED IMMEDIATELY. THE CHANNEL IMMEDIATELY BELOW THE OUTLET SHOULD BE CHECKED TO SEE THAT EROSION IS NOT 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 OUTLET PROTECTION.

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CONSTRUCTION CRITERIA

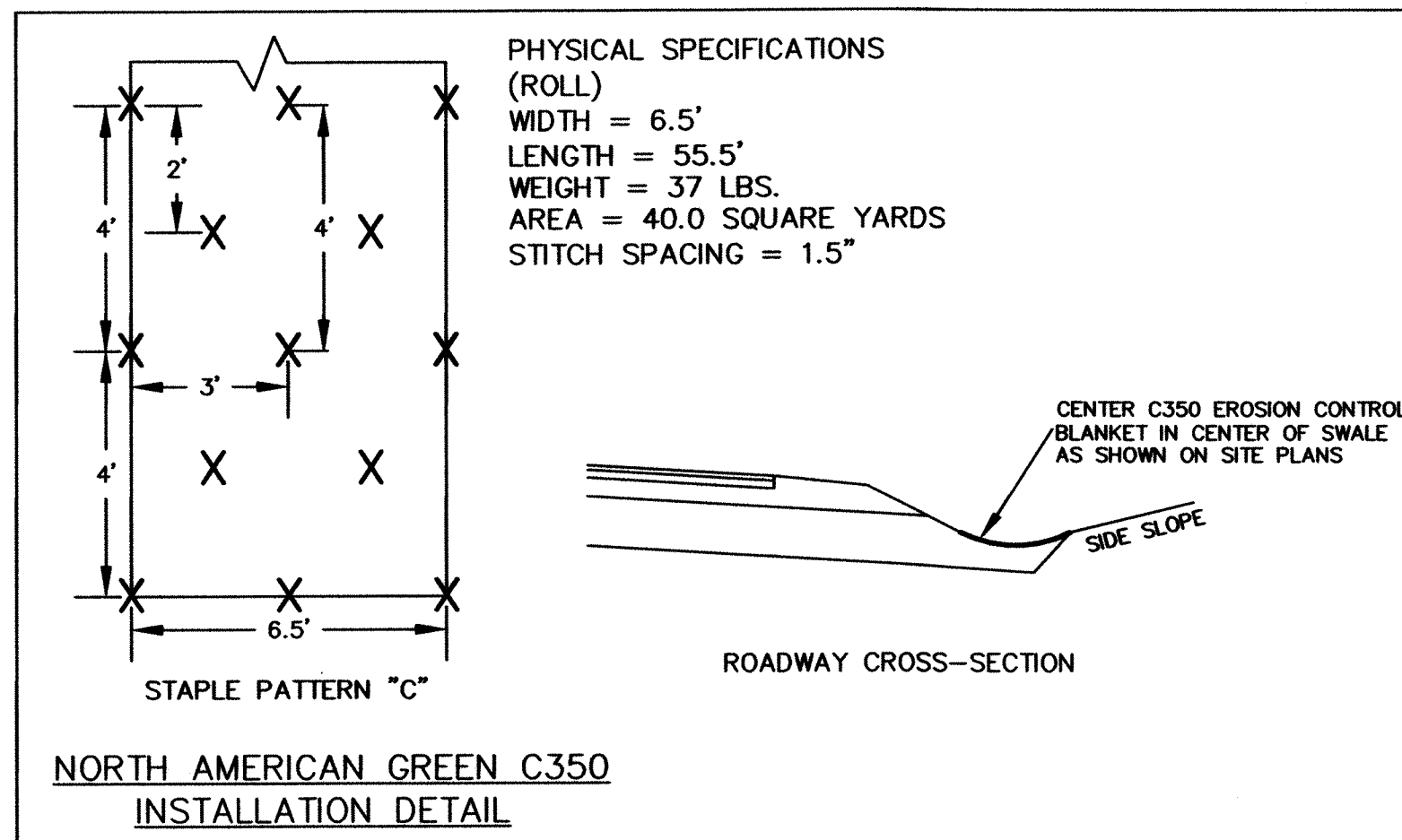
- SUBGRADE PREPARATION:** AREA SHALL BE CLEARED OF TREES, LOGS, STUMPS, ROOTS, BRUSH, BOULDERS, SOIL AND RUBBISH. SUBGRADE SURFACE TO BE ROLLED BEFORE PLACEMENT OF FILL MATERIAL. THE SURFACE SHALL HAVE MOISTURE ADDED OR IT SHALL BE COMPACTED IF NECESSARY SO THAT THE FIRST LAYER OF FILL MATERIAL CAN BE COMPACTED AND BONDED TO THE SUBBASE MATERIAL.
- FILL PLACEMENT:** FILL SHALL BE FREE OF SOIL, ROOTS, FROZEN SOIL, STONES MORE THAN 6 INCHES IN DIA. AND OTHER OBJECTIONABLE MATERIAL.
- FILL TO BE PLACED EQUALLY AROUND SUBSURFACE STRUCTURES & PIPES TO PREVENT DAMAGE FROM UNEQUAL LOADING.
 - PLACING AND SPREADING OF FILL MATERIAL SHALL BE STARTED AT SUBGRADE ELEVATION AND BROUGHT UP IN HORIZONTAL LAYERS OF THICKNESS ALLOWING ADEQUATE COMPACTION.
 - DISTRIBUTION AND GRADATION OF MATERIALS SHALL BE SUCH THAT NO LENSES, POCKETS, STREAKS, OR LAYERS OF MATERIAL DIFFER SUBSTANTIALLY IN TEXTURE OF GRADATION FROM SURROUNDING MATERIAL.
 - MAXIMUM THICKNESS OF GRAVEL LIFTS TO 1 FOOT (12 INCHES).
- MOISTURE CONTROL:** MOISTURE CONTENT OF THE FILL SHALL BE ADEQUATE FOR OBTAINING THE REQUIRED COMPACTION. IF THE MATERIAL IS TOO WET IT SHALL BE DRIED TO MEET THIS REQUIREMENT. IF THE MATERIAL IS TOO DRY IT SHALL HAVE WATER ADDED AND MIXED UNTIL REQUIREMENT IS MET.
- COMPACTION:** CONSTRUCTION EQUIPMENT SHALL BE OPERATED OVER THE AREAS OR EACH LAYER OF FILL TO INSURE THAT THE REQUIRED COMPACTION IS OBTAINED.
- EACH LAYER SHALL BE COMPACTED TO OBTAIN 95% OF THE PROTOR VALUE (ASTM 1557 OR AASHTO T180).
 - FILL ADJACENT TO STRUCTURES, PIPES, ETC SHALL BE COMPACTED TO A DENSITY EQUIVALENT TO THAT OF THE SURROUNDING FILL BY THE MEANS OF HAND TAMPERING OR MANUALLY DIRECTED POWER TAMPER OR PLATE VIBRATORS.
- EROSION PROTECTION:** A PROTECTIVE COVER OF VEGETATION SHALL BE ESTABLISHED ON ALL EXPOSED SURFACES OF THE EMBANKMENT (CUT/FILL)SLOPE, SPILLWAY, AND BORROW AREA IF SOIL AND CLIMATIC CONDITIONS PERMIT. IF CONDITIONS PRECLUDE THE USE OF VEGETATION AND PROTECTION IS NEEDED, NON-VEGETATION MEANS, SUCH AS EROSION BLANKETS OR RIPRAP SLOPE PROTECTION, MAY BE USED.
- SEEDING, FERTILIZING, AND MULCHING SHALL COMPLY WITH THE APPROPRIATE VEGETATIVE BMP'S.

REVISED PER REVIEW COMMENTS	4/25/14
REVISIONS:	DATE:

CONSTRUCTION DETAILS

PLAN FOR:
JASPER'S CORNER
HUCKINS ROAD
MADBURY, NH

DATE: MARCH, 2014	SCALE: NTS
PROJ. NO: NH-767	SHEET NO. 9 OF 10



TEMPORARY EROSION CONTROL MEASURES

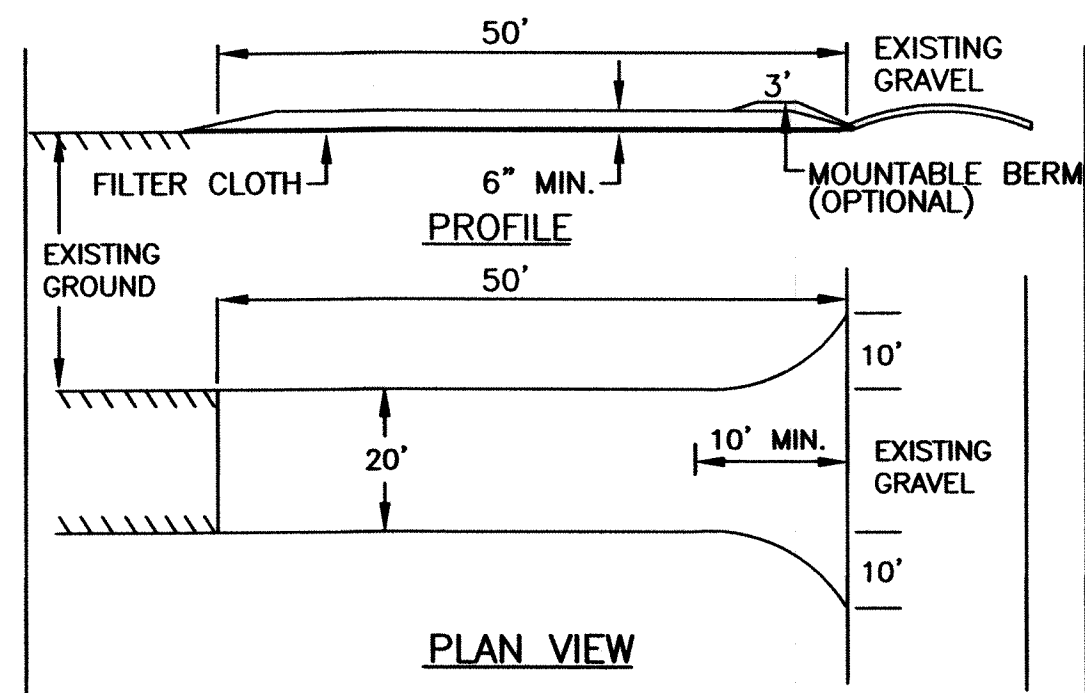
1. THE SMALLEST PRACTICAL AREA SHALL BE DISTURBED DURING CONSTRUCTION, BUT NO MORE THAN 5 ACRES OF LAND SHALL BE EXPOSED BEFORE DISTURBED AREAS ARE STABILIZED.
2. EROSION, SEDIMENT AND DETENTION MEASURES SHALL BE INSTALLED AS SHOWN ON THE PLANS AND AT LOCATIONS AS REQUIRED OR DIRECTED BY THE ENGINEER. ALL DISTURBED AREAS SHALL BE RETURNED TO ORIGINAL GRADES AND ELEVATIONS.
3. DISTURBED AREAS SHALL BE LOAMED WITH A MINIMUM OF 4" OF LOAM AND SEEDED WITH NOT LESS THAN 1.10 POUNDS OF SEED PER 1000 SQUARE FEET OF AREA. (48 POUNDS PER ACRE) SEE SEED SPECIFICATIONS THIS SHEET.
4. SILT FENCES AND OTHER EROSION CONTROLS SHALL BE INSPECTED WEEKLY AND AFTER EVERY RAIN EVENT GREATER THAN 0.5" DURING THE LIFE OF THE PROJECT. ALL DAMAGED AREAS SHALL BE REPAIRED. SEDIMENT DEPOSITS SHALL PERIODICALLY BE REMOVED AND DISPOSED OF.
5. AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED, THE TEMPORARY EROSION CONTROL MEASURES ARE TO BE REMOVED AND THE AREA DISTURBED BY THE REMOVAL SMOOTHED AND RE-VEGETATED.
6. AREAS MUST BE SEEDED AND MULCHED WITHIN 3 DAYS OF FINAL GRADING, PERMANENTLY STABILIZED WITHIN 15 DAYS OF FINAL GRADING, OR TEMPORARILY STABILIZED WITHIN 30 DAYS OF INITIAL DISTURBANCE OF SOIL.
- * AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:
 - BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED.
 - A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED.
 - A MINIMUM OF 3 INCHES OF NON-EROSIVE MATERIAL SUCH AS RIPRAP HAS BEEN INSTALLED.
 - EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.

CONSTRUCTION SPECIFICATIONS

1. STRUCTURES SHALL BE INSTALLED ACCORDING TO THE DIMENSIONS SHOWN ON THE PLANS AT THE APPROPRIATE SPACING.
2. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER SO THAT EROSION AND AIR AND WATER POLLUTION WILL BE MINIMIZED.
3. WHEN HAY BALES ARE USED, THE BALES SHALL BE EMBEDDED AT LEAST 4 INCHES INTO THE SOIL. WHEN TIMBER STRUCTURES ARE USED, THE TIMBER SHALL EXTEND AT LEAST 18" INTO THE SOIL.
4. HAY OR STRAW BALES SHALL BE ANCHORED INTO THE SOIL USING 2" X 2" STAKES DRIVEN THROUGH THE BALES AND AT LEAST 18 INCHES IN TO THE SOIL.
5. SEEDING, FERTILIZING, AND MULCHING SHALL CONFORM TO THE RECOMMENDATIONS IN THE APPROPRIATED VEGETATIVE BMP.
6. STRUCTURES SHALL BE REMOVED FROM THE CHANNEL WHEN THEIR USEFUL LIFE HAS BEEN COMPLETED.
7. THROUGHOUT THE DURATION OF CONSTRUCTION ACTIVITIES THE CONTRACTOR SHALL TAKE PRECAUTIONS IN ORDER TO PREVENT, ABATE AND CONTROL THE EMISSION OF FUGITIVE DUST INCLUDING BUT NOT LIMITED TO WETTING, COVERING, SHIELDING, OR VACUUMING.
8. THE NH COMMISSIONER OF AGRICULTURE PROHIBITS THE COLLECTION, POSSESSION, IMPORTATION, TRANSPORTATION, SALE, PROPAGATION, TRANSPLANTATION, OR CULTIVATION OF PLANTS BANNED BY NH LAW RSA 430:53 AND NH CODE ADMINISTRATIVE RULES AGR 3800. THE PROJECT SHALL MEET ALL REQUIREMENTS AND THE INTENT OF RSA 430:53 AND AGR 3800 RELATIVE TO INVASIVE SPECIES.

CONSTRUCTION SEQUENCE

1. CUT AND REMOVE TREES IN CONSTRUCTION AREAS AS REQUIRED OR DIRECTED.
2. CONSTRUCT AND/OR INSTALL TEMPORARY AND PERMANENT SEDIMENT EROSION AND DETENTION CONTROL FACILITIES AS REQUIRED. EROSION, SEDIMENT AND DETENTION CONTROL FACILITIES SHALL BE INSTALLED AND STABILIZED PRIOR TO ANY EARTH MOVING OPERATION AND PRIOR TO DIRECTING RUNOFF TO THEM.
3. CLEAR, CUT, GRUB AND DISPOSE OF DEBRIS IN APPROVED FACILITIES. STUMPS AND DEBRIS ARE TO BE REMOVED FROM SITE AND DISPOSED OF PER STATE AND LOCAL REGULATIONS.
4. EXCAVATE AND STOCKPILE TOPSOIL /LOAM. ALL AREAS SHALL BE STABILIZED IMMEDIATELY AFTER GRADING.
5. CONSTRUCT TEMPORARY CULVERTS AS REQUIRED OR DIRECTED.
6. CONSTRUCT THE ROADWAY/DRIVEWAYS AND ITS ASSOCIATED DRAINAGE STRUCTURES. ALL ROADWAYS, PARKING AREAS, AND CUT/FILL SLOPES SHALL BE STABILIZED AND/OR LOAMED AND SEEDED WITHIN 72-HOURS OF ACHIEVING FINISH GRADE AS APPLICABLE.
7. INSTALL PIPE AND CONSTRUCTION ASSOCIATED APPURTENANCES AS REQUIRED OR DIRECTED. ALL DISTURBED AREAS SHALL STABILIZED IMMEDIATELY AFTER GRADING.
8. BEGIN PERMANENT AND TEMPORARY SEEDING AND MULCHING. ALL CUT AND FILL SLOPES AND DISTURBED AREAS SHALL BE SEED OR MULCHED AS REQUIRED, OR DIRECTED.
9. DAILY OR AS REQUIRED, CONSTRUCT TEMPORARY BERMS, DRAINAGE CHECK DAMS, DITCHES, SEDIMENT TRAPS, ETC. TO PREVENT EROSION ON THE SITE AND PREVENT ANY SILTATION OF ABUTTING WATERS OR PROPERTY.
10. INSPECT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION
11. COMPLETE PERMANENT SEEDING AND LANDSCAPING
12. REMOVE TEMPORARY EROSION CONTROL MEASURES AFTER SEEDING AREAS HAVE ESTABLISHED THEMSELVES AND SITE IMPROVEMENTS ARE COMPLETE. SMOOTH AND REVEGETATE ALL DISTURBED AREAS.
13. ALL SWALES AND DRAINAGE STRUCTURES WILL BE CONSTRUCTED AND STABILIZED PRIOR TO HAVING RUNOFF DIRECTED TO THEM.
14. FINISH PAVING ALL ROADWAYS/DRIVEWAYS.
15. LOT DISTURBANCE OTHER THAN THAT SHOWN ON THE APPROVED PLANS SHALL NOT COMMENCE UNTIL THE ROADWAY HAS THE BASE COURSE TO DESIGN ELEVATION AND THE ASSOCIATED DRAINAGE IS COMPLETE AND STABLE.



1. STONE FOR A STABILIZED CONSTRUCTION ENTRANCE SHALL BE 1 TO 2 INCH STONE, RECLAIMED STONE, OR RECYCLED CONCRETE EQUIVALENT.
2. THE LENGTH OF THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 50 FEET, EXCEPT FOR A SINGLE RESIDENTIAL LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY.
3. THE THICKNESS OF THE STONE FOR THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 6 INCHES.
4. THE WIDTH OF THE ENTRANCE SHALL NOT BE LESS THAN THE FULL WIDTH OF THE ENTRANCE WHERE INGRESS OR EGRESS OCCURS OR 10 FEET, WHICH EVER IS GREATER.
5. GEOTEXTILE FILTER CLOTH SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING THE STONE. FILTER CLOTH IS NOT REQUIRED FOR A SINGLE FAMILY RESIDENCE LOT.
6. ALL SURFACE WATER THAT IS FLOWING TO OR DIVERTED TOWARD THE CONSTRUCTION ENTRANCE SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A BERM WITH 5:1 SLOPES THAT CAN BE CROSSED BY VEHICLES MAY BE SUBSTITUTED FOR THE PIPE.
7. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, WASHED, OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED PROMPTLY.

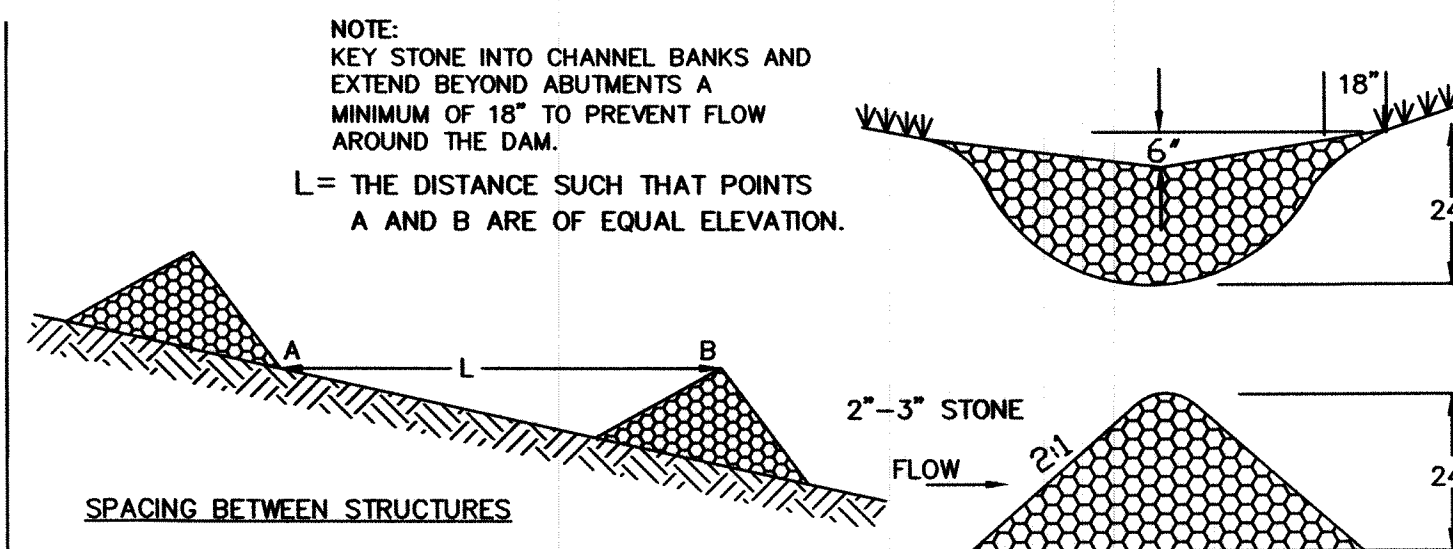
STABILIZED CONSTRUCTION ENTRANCE

WINTER MAINTENANCE

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

SEEDING SPECIFICATIONS

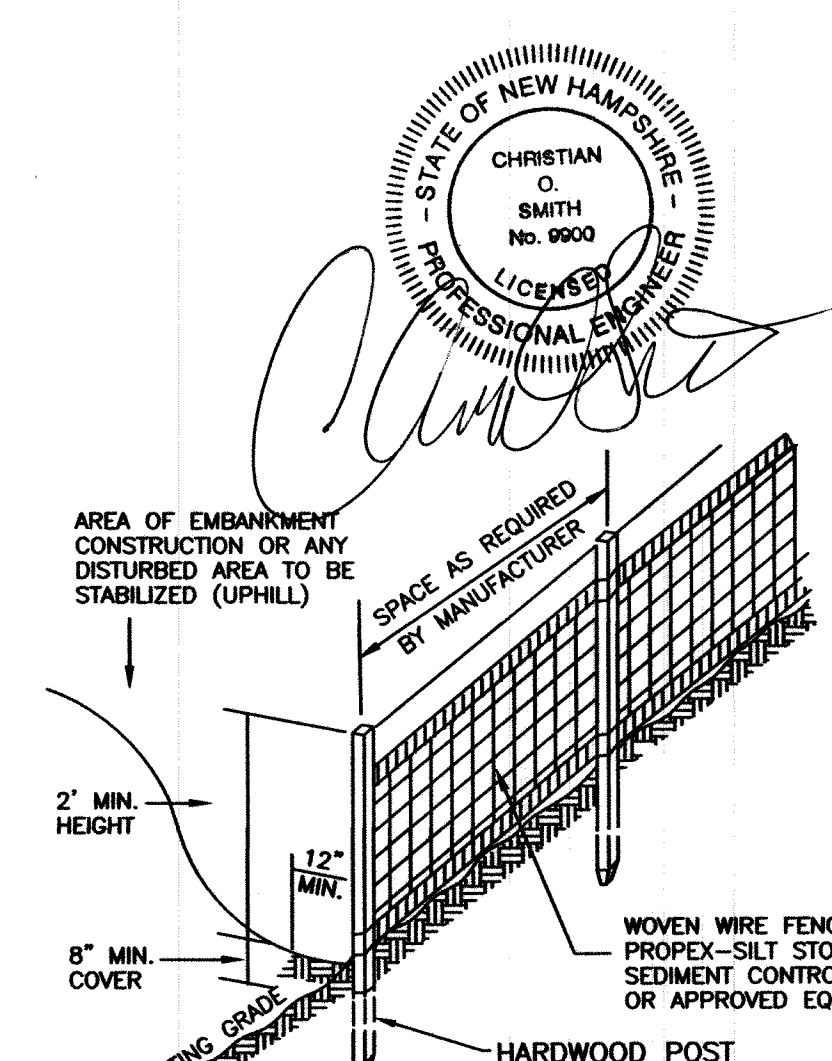
1. GRADING AND SHAPING
 - A. SLOPES SHALL NOT BE STEEPER THAN 2:1; 3:1 SLOPES OR FLATTER ARE PREFERRED. WHERE MOWING WILL BE DONE, 3:1 SLOPES OR FLATTER ARE RECOMMENDED.
2. SEEDBED PREPARATION
 - A. SURFACE AND SEEPAGE WATER SHOULD BE DRAINED OR DIVERTED FROM THE SITE TO PREVENT DROWNING OR WINTER KILLING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



TEMPORARY STONE CHECK DAM

MAINTENANCE
TEMPORARY GRADE STABILIZATION STRUCTURES SHOULD BE CHECKED AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED STORMS. ANY NECESSARY REPAIRS SHOULD BE MADE IMMEDIATELY. PARTICULAR ATTENTION SHOULD BE GIVEN TO END RUN AND EROSION AT THE DOWNSTREAM TOE OF THE STRUCTURE. WHEN THE STRUCTURES ARE REMOVED, THE DISTURBED PORTION SHOULD BE BROUGHT TO THE EXISTING CHANNEL GRADE AND THE AREAS PREPARED, SEEDED AND MULCHED. WHILE THIS PRACTICE IS NOT INTENDED TO BE USED PRIMARILY FOR SEDIMENT TRAPPING, SOME SEDIMENT WILL ACCUMULATE BEHIND THE STRUCTURES. SEDIMENT SHALL BE REMOVED FROM BEHIND THE STRUCTURES WHEN IT HAS ACCUMULATED TO ONE HALF OF THE ORIGINAL HEIGHT OF THE STRUCTURE.

REMOVAL
AFTER VEGETATION HAS STABILIZED, THESE TEMPORARY STRUCTURES SHALL BE REMOVED WITH SPECIAL CARE AS TO AVOID DISTURBING ANY UNDERLYING EROSION CONTROL FABRIC AND/OR EXISTING VEGETATION



SILT FENCE

- CONSTRUCTION SPECIFICATIONS**
1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES AND FILTER CLOTH SHALL BE FASTENED TO WOVEN WIRE EVERY 24" AT TOP MID AND BOTTOM SECTIONS AND BE EMBEDDED INTO GROUND A MINIMUM OF 8".
 2. THE FENCE POSTS SHALL BE A MINIMUM 48" LONG, SPACED A MAXIMUM 10' APART, AND DRIVEN A MINIMUM OF 16" INTO THE GROUND.
 3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THE ENDS OF THE FABRIC SHALL BE OVERLAPPED BY SIX INCHES, FOLDED AND STAPLED TO PREVENT SEDIMENT FROM BY-PASSING.
 4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND SEDIMENT REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE AND PROPERLY DISPOSED OF.
 5. PLACE THE ENDS OF THE SILT FENCE UP CONTOUR TO PROVIDE FOR SEDIMENT STORAGE.
 6. SILT FENCES SHALL BE REMOVED WHEN NO LONGER NEEDED AND THE SEDIMENT COLLECTED SHALL BE DISPOSED AS DIRECTED BY THE ENGINEER. THE AREA DISTURBED BY THE REMOVAL SHALL BE SMOOTHED AND RE-VEGETATED.
- MAINTENANCE**
1. SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS THAT ARE REQUIRED SHALL BE MADE IMMEDIATELY.
 2. IF THE FABRIC ON A SILT FENCE SHOULD DECOMPOSE OR BECOME INEFFECTIVE DURING THE EXPECTED LIFE OF THE FENCE, THE FABRIC SHALL BE REPLACED PROMPTLY.
 3. SEDIMENT DEPOSITS SHOULD BE INSPECTED AFTER EVERY STORM EVENT. THE DEPOSITS SHOULD BE REMOVED WHEN THEY REACH APPROXIMATELY ONE HALF THE HEIGHT OF THE BARRIER.
 4. SEDIMENT DEPOSITS THAT ARE REMOVED OR LEFT IN PLACE AFTER THE FABRIC HAS BEEN REMOVED SHALL BE GRADED TO CONFORM WITH THE EXISTING TOPOGRAPHY AND VEGETATED.

SEEDING GUIDE

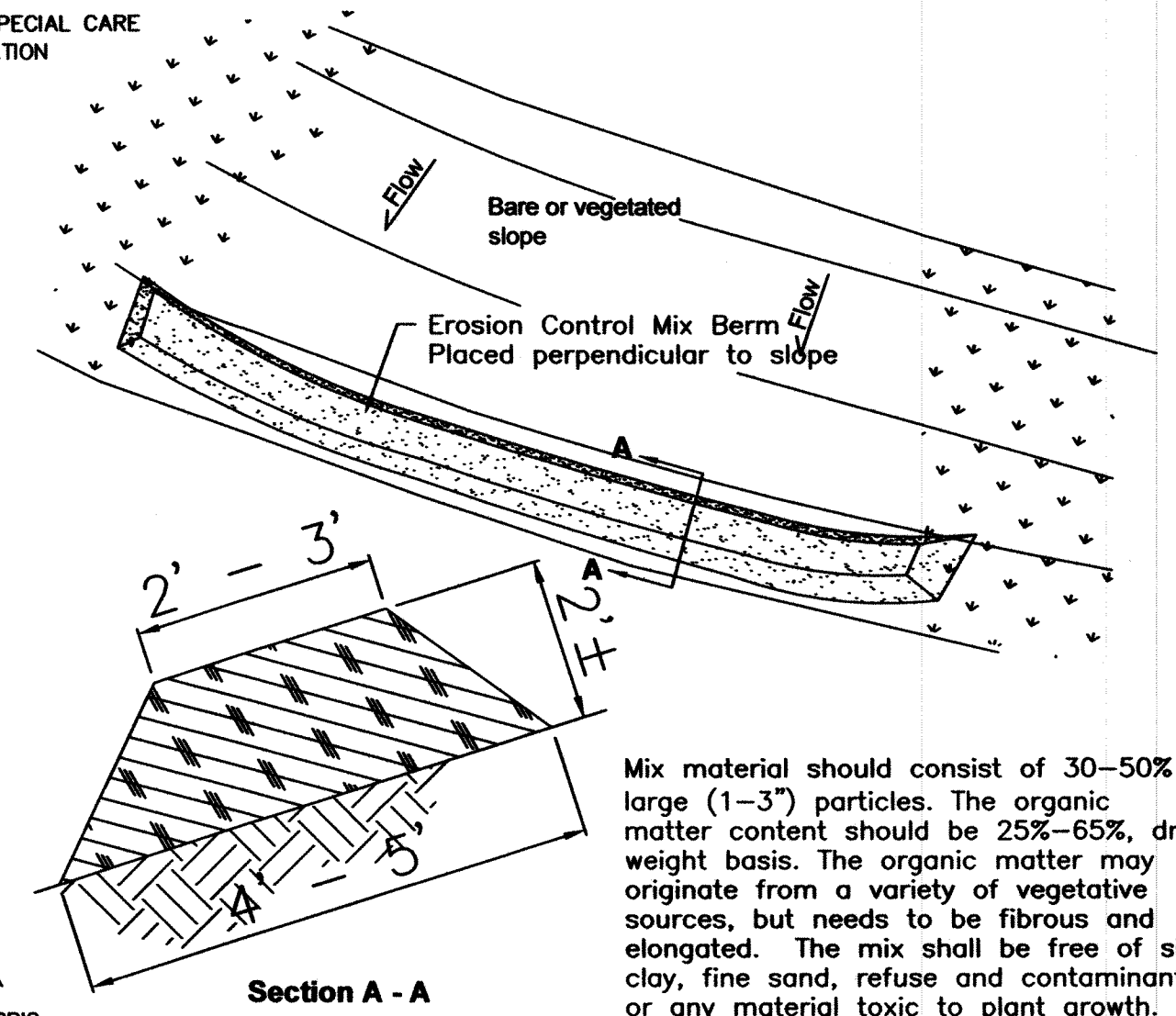
USE	SEEDING MIXTURE 1/	DROUGHTY	WELL DRAINED	MODERATELY WELL DRAINED	POORLY DRAINED
STEEP CUTS AND FILL, BORROW AND DISPOSAL AREAS	A	FAIR	GOOD	GOOD	FAIR
	B	POOR	GOOD	FAIR	FAIR
	C	POOR	GOOD	EXCELLENT	GOOD
	D	FAIR	EXCELLENT	EXCELLENT	POOR
	E	FAIR	EXCELLENT	EXCELLENT	POOR
WATERWAYS, EMERGENCY SPILLWAYS,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

GRAVEL PIT, SEE NH-PM-24 IN APPENDIX FOR RECOMMENDATION REGARDING RECLAMATION OF SAND AND GRAVEL PITS.
1/ REFER TO SEEDING MIXTURES AND RATES IN TABLE 7-36.
2/ POORLY DRAINED SOILS ARE NOT DESIRABLE FOR USE AS PLAYING AREA AND ATHLETIC FIELDS.

NOTE: TEMPORARY SEED MIX FOR STABILIZATION OF TURF SHALL BE WINTER RYE OR DATS AT A RATE OF 2.5 LBS. PER 1000 S.F. AND SHALL BE PLACED PRIOR TO OCT. 15, IF PERMANENT SEEDING NOT YET COMPLETE.

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Mix material should consist of 30-50% large (1-3") particles. The organic matter content should be 25%-65%, dry weight basis. The organic matter may originate from a variety of vegetative sources, but needs to be fibrous and elongated. The mix shall be free of silt, clay, fine sand, refuse and contaminants or any material toxic to plant growth. Erosion Control Mix berms are effective filters for overland flow conditions and should not be used to filter concentrated flow such as that found in drainage ditches, streams, etc.

Erosion Control Mix Berm

SEEDING RATES

MIXTURE	POUNDS PER ACRE	POUNDS PER 1,000 SQ. FT.
A. TALL FESCUE	20	0.45
CREeping RED FESCUE	20	0.45
RED TOP	20	0.00
TOTAL	42	0.95
B. TALL FESCUE	15	0.35
CREeping RED FESCUE	10	0.25
CROWN VETCH	15	0.35
OR		
FLAT PEA	30	0.75
TOTAL	40 OR 55	0.95 OR 1.35
C. TALL FESCUE	20	0.45
CREeping RED FESCUE	20	0.45
BIRDS FOOT TREFLOIL	8	0.20
TOTAL	48	1.10
D. TALL FESCUE	20	0.45
FLAT PEA	30	0.75
TOTAL	50	1.20
E. CREeping RED FESCUE 1/	50	1.15
KENTUCKY BLUEGRASS 2/	50	1.15
TOTAL	100	2.30
F. TALL FESCUE 1	150	3.60

1/ FOR HEAVY USE ATHLETIC FIELDS CONSULT THE UNIVERSITY OF NEW HAMPSHIRE COOPERATIVE EXTENSION TURF SPECIALIST FOR CURRENT VARIETIES AND SEEDING RATES.

REVISIONS:	DATE:
	4/25/14

EROSION CONTROL DETAILS

PLAN FOR:
JASPER'S CORNER
HUCKINS ROAD
MADBURY, NH

DATE: MARCH, 2014	SCALE: NTS
PROJ. NO: NH-767	SHEET NO. 10 OF 10