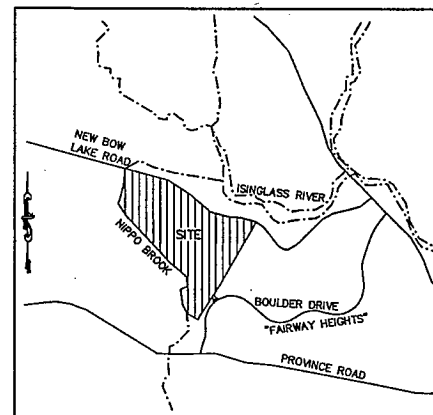


TAX MAP 215 LOT 1

RIVER'S PEAK RESIDENTIAL DEVELOPMENT

OWNER/APPLICANT:

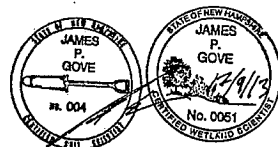
CABERNET BUILDERS
P.O. BOX 291
STRATHAM, N.H. 03885



LOCATION MAP
1"=1500'

PRIOR STATE APPROVALS:

NHDES STATE SUBDIVISION APPROVAL #: SA2005006120-A DATED 9/26/2005
NHDES SITE SPECIFIC PERMIT #: WPS 7162A DATED 2/6/2006



WETLAND/SOIL CONSULTANT:

GOVE ENVIRONMENTAL SERVICES INC.
8 CONTINENTAL DRIVE,
BLDG 2 UNIT H
EXETER, NH 03833
1-603-778-0644



CIVIL ENGINEERS:

BEALS ASSOCIATES PLLC
70 PORTSMOUTH AVE,
STRATHAM, NEW HAMPSHIRE
PHN. 603-583-4860, FAX. 603-583-4863

LAND SURVEYORS:

DOUCET SURVEYING
Serving Your Professional Surveying & Mapping Needs
102 Kent Place, Newmarket, NH 03857-0163
Voice (603) 659-6560, Data (603) 659-4118

INDEX

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HIGHWAY ACCSS PLAN	9
DRAINAGE DETAILS	10
CONSTRUCTION DETAILS	11
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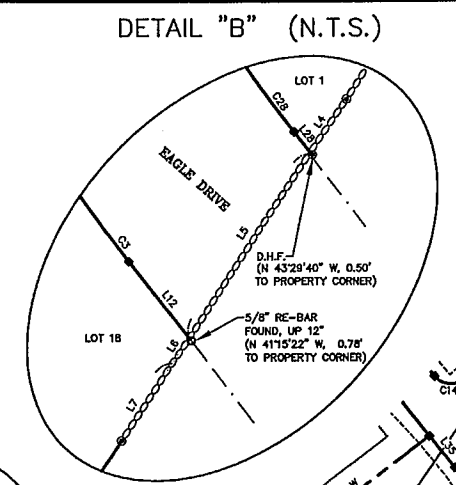
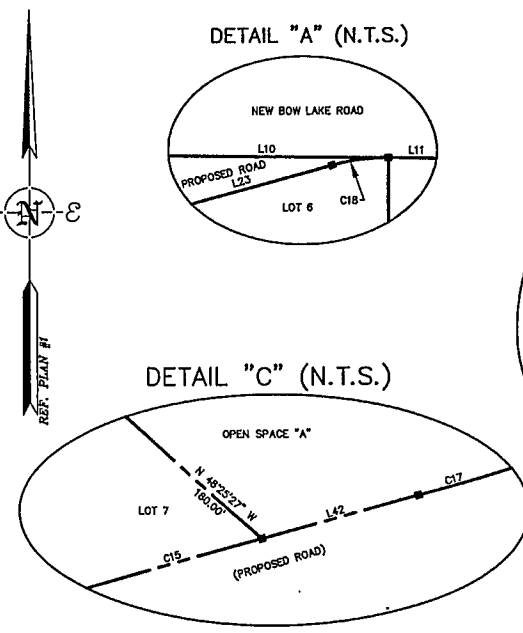
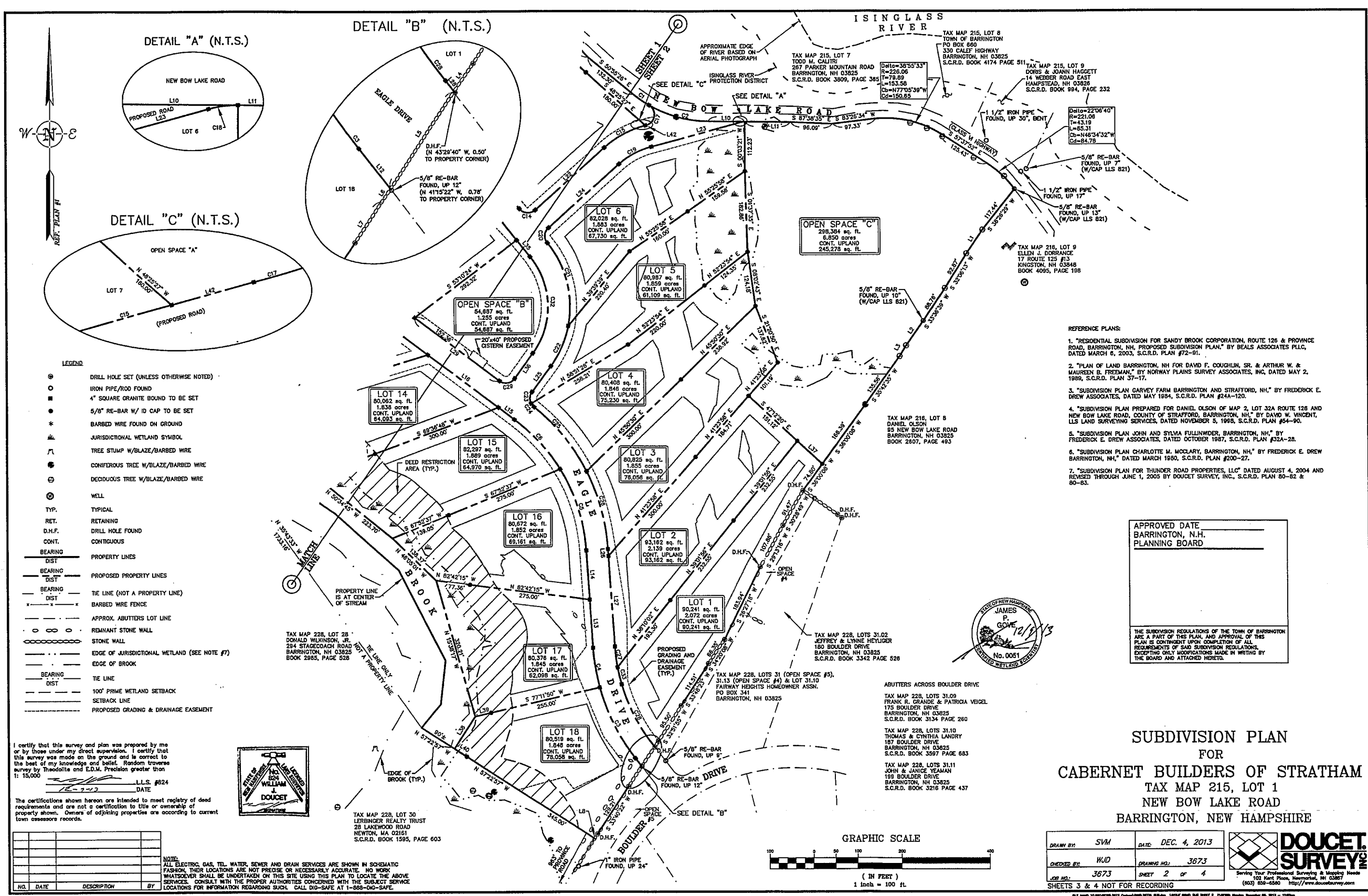
PLAN SET LEGEND

UTILITY POLE	⊕	FENCING	—x—
EXISTING LIGHT POLE	⊙	DRAINAGE LINE	—D—
EXISTING CATCH BASIN	⊠	STONE WALL	—o—o—o—
EXISTING HYDRANT	⊕	TREE LINE	—w—w—w—
SINGLE POST SIGN	⊕	ABUT. PROPERTY LINES	—x—x—x—
PINES, ETC.	⊕	EXIST. PROPERTY LINES	—x—x—x—
MAPLES, ETC.	⊕	BUILDING SETBACK LINES	—x—x—x—
EXIST. SPOT GRADE	⊕	EXIST. CONTOUR	—100—
PROP. SPOT GRADE	⊕	PROP. CONTOUR	—100—
TEST PIT	⊕	SOIL LINES	—x—x—x—

LAND USE OFFICE

DEC 10 2013

RECEIVED



- LEGEND**
- DRILL HOLE SET (UNLESS OTHERWISE NOTED)
 - IRON PIPE/ROD FOUND
 - 4" SQUARE GRANITE BOUND TO BE SET
 - 5/8" RE-BAR W/ 10" CAP TO BE SET
 - BARBED WIRE FOUND ON GROUND
 - JURISDICTIONAL WETLAND SYMBOL
 - TREE STUMP W/BLAZE/BARBED WIRE
 - CONIFEROUS TREE W/BLAZE/BARBED WIRE
 - DECIDUOUS TREE W/BLAZE/BARBED WIRE
 - WELL
 - TYP. TYPICAL
 - RET. RETAINING
 - D.H.F. DRILL HOLE FOUND
 - CONT. CONTIGUOUS
 - BEARING PROPERTY LINES
 - DIST. DIST
 - BEARING PROPOSED PROPERTY LINES
 - DIST. DIST
 - BEARING TIE LINE (NOT A PROPERTY LINE)
 - DIST. DIST
 - BARBED WIRE FENCE
 - APPROX. ADJUTERS LOT LINE
 - REMANENT STONE WALL
 - STONE WALL
 - EDGE OF JURISDICTIONAL WETLAND (SEE NOTE #7)
 - EDGE OF BROOK
 - BEARING TIE LINE
 - DIST. DIST
 - 100' PRIME WETLAND SETBACK
 - SETBACK LINE
 - PROPOSED GRADING & DRAINAGE EASEMENT

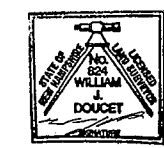
I certify that this survey and plan was prepared by me or by those under my direct supervision. I certify that this survey was made on the ground and is correct to the best of my knowledge and belief. Random traverse survey by Theodolite and E.D.M. Precision greater than 1:15,000.

DATE 12-4-2013

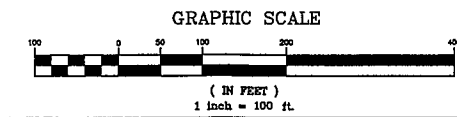
LL.S. #824

The certifications shown hereon are intended to meet registry of deed requirements and are not a certification to title or ownership of property shown. Owners of adjoining properties are according to current town assessors records.

NO.	DATE	DESCRIPTION	BY



TAX MAP 228, LOT 30
LEBRONER REALTY TRUST
28 LAKEWOOD ROAD
NEWTON, MA 02451
S.C.R.D. BOOK 1595, PAGE 603




- REFERENCE PLANS:**
1. "RESIDENTIAL SUBDIVISION FOR SANDY BROOK CORPORATION, ROUTE 126 & PROVINCE ROAD, BARRINGTON, NH, PROPOSED SUBDIVISION PLAN," BY BEALS ASSOCIATES PLLC, DATED MARCH 6, 2003, S.C.R.D. PLAN #72-91.
 2. "PLAN OF LAND BARRINGTON, NH FOR DAVID F. COUGHLIN, SR. & ARTHUR W. & MAUREEN S. FREEMAN," BY NORWAY PLAINS SURVEY ASSOCIATES, INC. DATED MAY 2, 1989, S.C.R.D. PLAN 37-17.
 3. "SUBDIVISION PLAN GARVEY FARM BARRINGTON AND STRAFFORD, NH," BY FREDERICK E. DREW ASSOCIATES, DATED MAY 1994, S.C.R.D. PLAN #24A-120.
 4. "SUBDIVISION PLAN PREPARED FOR DANIEL OLSON OF MAP 2, LOT 32A ROUTE 126 AND NEW BOW LAKE ROAD, COUNTY OF STRAFFORD, BARRINGTON, NH," BY DAVID W. VINCENT, LLS LAND SURVEYING SERVICES, DATED NOVEMBER 5, 1998, S.C.R.D. PLAN #54-90.
 5. "SUBDIVISION PLAN JOHN AND SYLVIA FULLINWIDER, BARRINGTON, NH," BY FREDERICK E. DREW ASSOCIATES, DATED OCTOBER 1987, S.C.R.D. PLAN #32A-28.
 6. "SUBDIVISION PLAN CHARLOTTE M. WOOLARY, BARRINGTON, NH," BY FREDERICK E. DREW ASSOCIATES, DATED MARCH 1980, S.C.R.D. PLAN #200-27.
 7. "SUBDIVISION PLAN FOR THUNDER ROAD PROPERTIES, LLC," DATED AUGUST 4, 2004 AND REVISED THROUGH JUNE 1, 2005 BY DOUCET SURVEY, INC., S.C.R.D. PLAN 80-82 & 80-83.

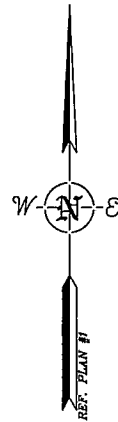
APPROVED DATE
BARRINGTON, N.H.
PLANNING BOARD

THE SUBDIVISION REGULATIONS OF THE TOWN OF BARRINGTON ARE A PART OF THIS PLAN, AND APPROVAL OF THIS PLAN IS CONTINGENT UPON COMPLETION OF ALL REQUIREMENTS OF SAID SUBDIVISION REGULATIONS, EXCEPTING ONLY MODIFICATIONS MADE IN WRITING BY THE BOARD AND ATTACHED HERETO.

**SUBDIVISION PLAN
FOR
CABERNET BUILDERS OF STRATHAM
TAX MAP 215, LOT 1
NEW BOW LAKE ROAD
BARRINGTON, NEW HAMPSHIRE**

DRAWN BY: SVM	DATE: DEC. 4, 2013	
CHECKED BY: WJD	DRAWING NO.: 3673	
JOB NO.: 3673	SHEET 2 OF 4	
SHEETS 3 & 4 NOT FOR RECORDING		

LAND USE OFFICE
DEC 10 2013
RECEIVED

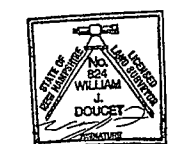


- LEGEND
- DRILL HOLE SET (UNLESS OTHERWISE NOTED)
 - IRON PIPE/ROD FOUND
 - ⊙ DRY MARK SET IN STONE WALL
 - * BARBED WIRE FOUND ON GROUND
 - ▲ JURISDICTIONAL WETLAND SYMBOL
 - ⌈ TREE STUMP W/BLAZE/BARBED WIRE
 - CONIFEROUS TREE W/BLAZE/BARBED WIRE
 - ⊙ DECIDUOUS TREE W/BLAZE/BARBED WIRE
 - SURFACE LEDGE/BOULDERS
 - ⊙ WELL
 - ⊙ TEST PIT
 - TYP. TYPICAL
 - RET. RETAINING
 - PROPERTY LINES
 - - - - - BARBED WIRE FENCE
 - - - - - APPROX. ADJUTERS LOT LINE
 - - - - - TREE LINE
 - - - - - REMNANT STONE WALL
 - - - - - STONE WALL
 - - - - - CONTOUR LINE
 - - - - - EDGE OF JURISDICTIONAL WETLAND (SEE NOTE #7)
 - - - - - EDGE OF BROOK
 - - - - - SOIL BOUNDARY
 - 3238H SOIL CLASSIFICATION



LAND USE OFFICE
DEC 10 2013
RECEIVED

TOPOGRAPHIC PLAN
FOR
CABERNET BUILDERS OF STRATHAM
TAX MAP 215, LOT 1
NEW BOW LAKE ROAD
BARRINGTON, NEW HAMPSHIRE



I certify that this survey and plan was prepared by me or by those under my direct supervision. I certify that this survey was made on the ground and is correct to the best of my knowledge and belief. Random traverse survey by theodolite and EDM. Precision greater than 1:15,000.

L.L.S. #824
DATE 12-4-2013

The certifications shown hereon are intended to meet registry of deed requirements and are not a certification to title or ownership of property shown. Owners of adjoining properties are according to current town assessor records.

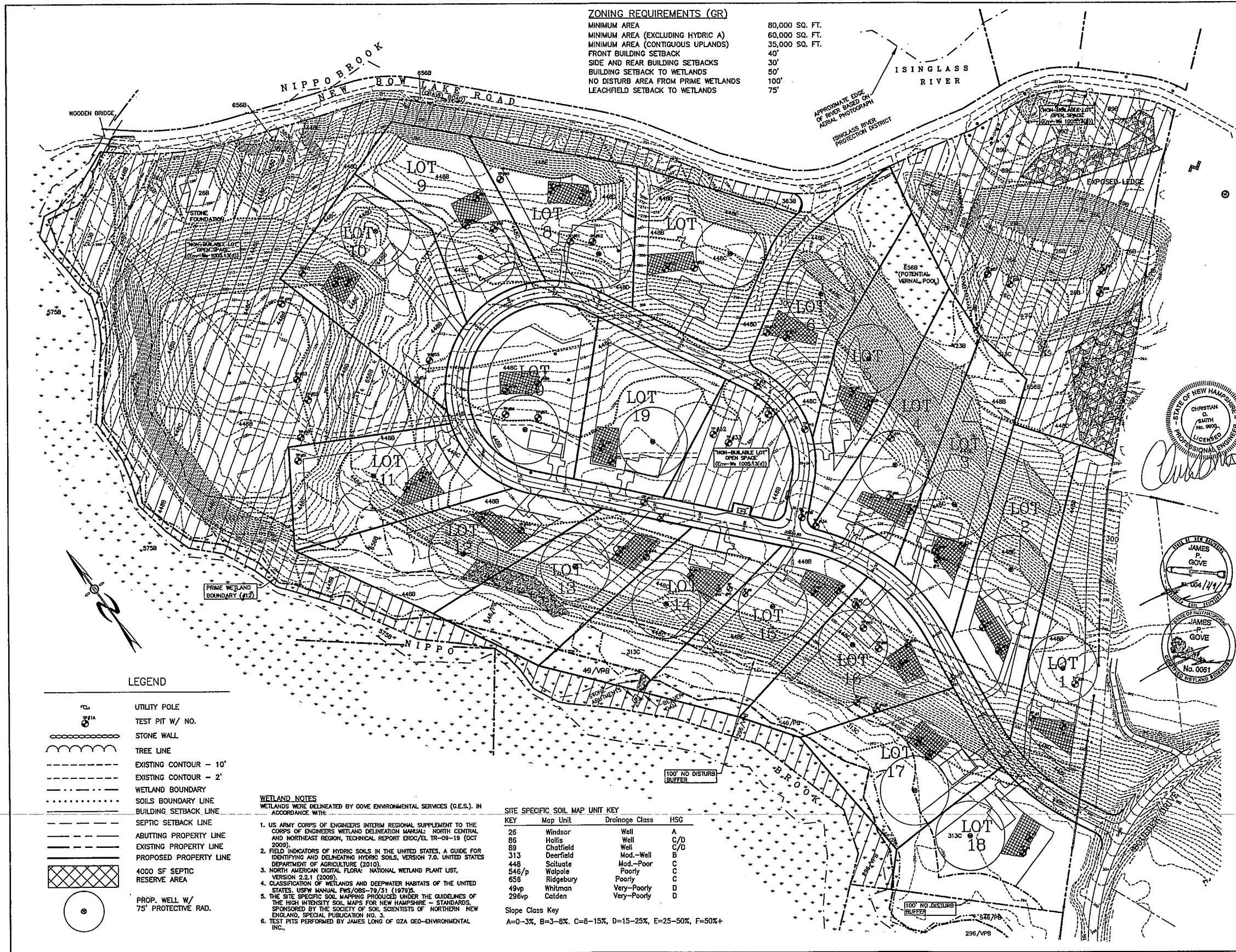
NO.	DATE	DESCRIPTION	BY

NOTE:
ALL ELECTRIC, GAS, TEL. WATER, SEWER AND DRAIN SERVICES ARE SHOWN IN SCHEMATIC FASHION. THEIR LOCATIONS ARE NOT PRECISE OR NECESSARILY ACCURATE. NO WORK WHATSOEVER SHALL BE UNDERTAKEN ON THIS SITE USING THIS PLAN TO LOCATE THE ABOVE SERVICES. CONSULT WITH THE PROPER AUTHORITIES CONCERNED WITH THE SUBJECT SERVICE LOCATIONS FOR INFORMATION REGARDING SUCH. CALL DIG-SAFE AT 1-800-DIG-SAFE.

DRAWN BY: SVM	DATE: DEC. 4, 2013
CHECKED BY: WJD	DRAWING NO.: 3673
JOB NO.: 3673	SHEET 4 OF 4
SHEETS 3 & 4 NOT FOR RECORDING	



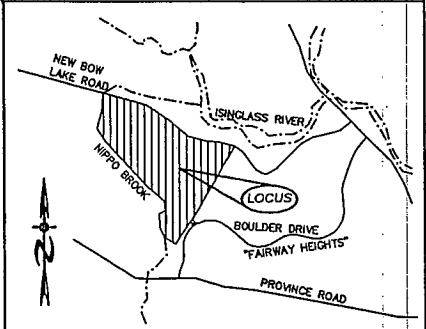




PREPARED FOR:

CABERNET BUILDERS
P.O. BOX 929
STRATHAM, N.H. 03885

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



- NOTES**
- UNDERGROUND FACILITIES, UTILITIES AND STRUCTURES HAVE BEEN LOCATED 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-DIG-SAFE.
 - THIS PLAN HAS BEEN PREPARED FOR MUNICIPAL AND STATE APPROVALS AND FOR CONSTRUCTION BASED ON DATA OBTAINED FROM ON-SITE 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 ON-SITE CONDITIONS MUST BE RESOLVED BEFORE RELATED CONSTRUCTION HAS BEEN INITIATED.
 - ALL BENCHMARKS AND TOPOGRAPHY SHOULD BE FIELD VERIFIED BY THE CONTRACTOR.
 - ALL ROAD AND DRAINAGE WORK TO CONFORM TO TOWN STANDARD SPECIFICATIONS FOR CONSTRUCTION.
 - ALL PROPOSED SIGNS SHALL CONFORM TO TOWN ZONING REGULATIONS.
 - PARCEL IS NOT IN SPECIAL FLOOD HAZARD ZONE PER TOWN OF BARRINGTON FIA FLOOD HAZARD BOUNDARY MAP NO. 5.
 - THERE ARE NO STREET LIGHTS PROPOSED IN THIS PROJECT.
 - THE LANDOWNER IS RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL WETLAND REGULATIONS, INCLUDING ANY PERMITTING AND SETBACK REQUIREMENTS REQUIRED UNDER THESE REGULATIONS.
 - SEE DETAIL SHEET FOR STANDARD CONSTRUCTION NOTES AND DETAILS.

GRAPHIC SCALE

(IN FEET)
1 inch = 100 ft.

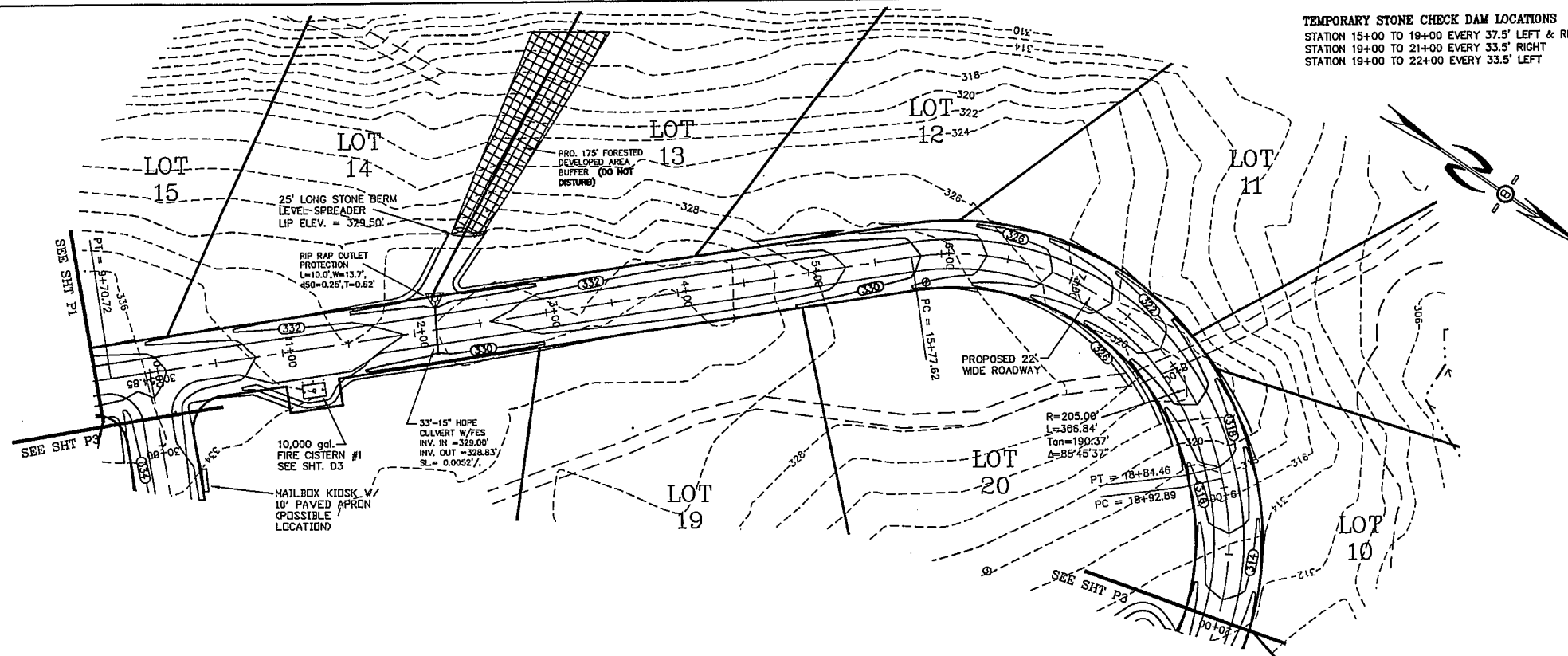
REVISIONS: _____ DATE: _____

SUBDIVISION SITE PLAN

PLAN FOR:
RESIDENTIAL DEVELOPMENT
BOULDER DRIVE
BARRINGTON, NH

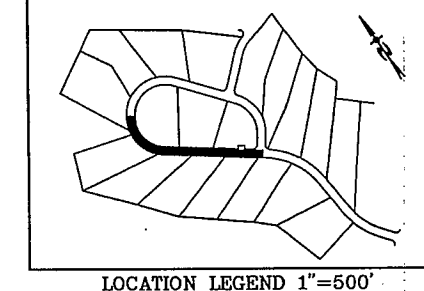
DATE: DEC. 2013 SCALE: 1"=100'
PROJ. NO: NH-193 SHEET NO. 5 OF 13

LAND USE OFFICE
DEC 10 2013
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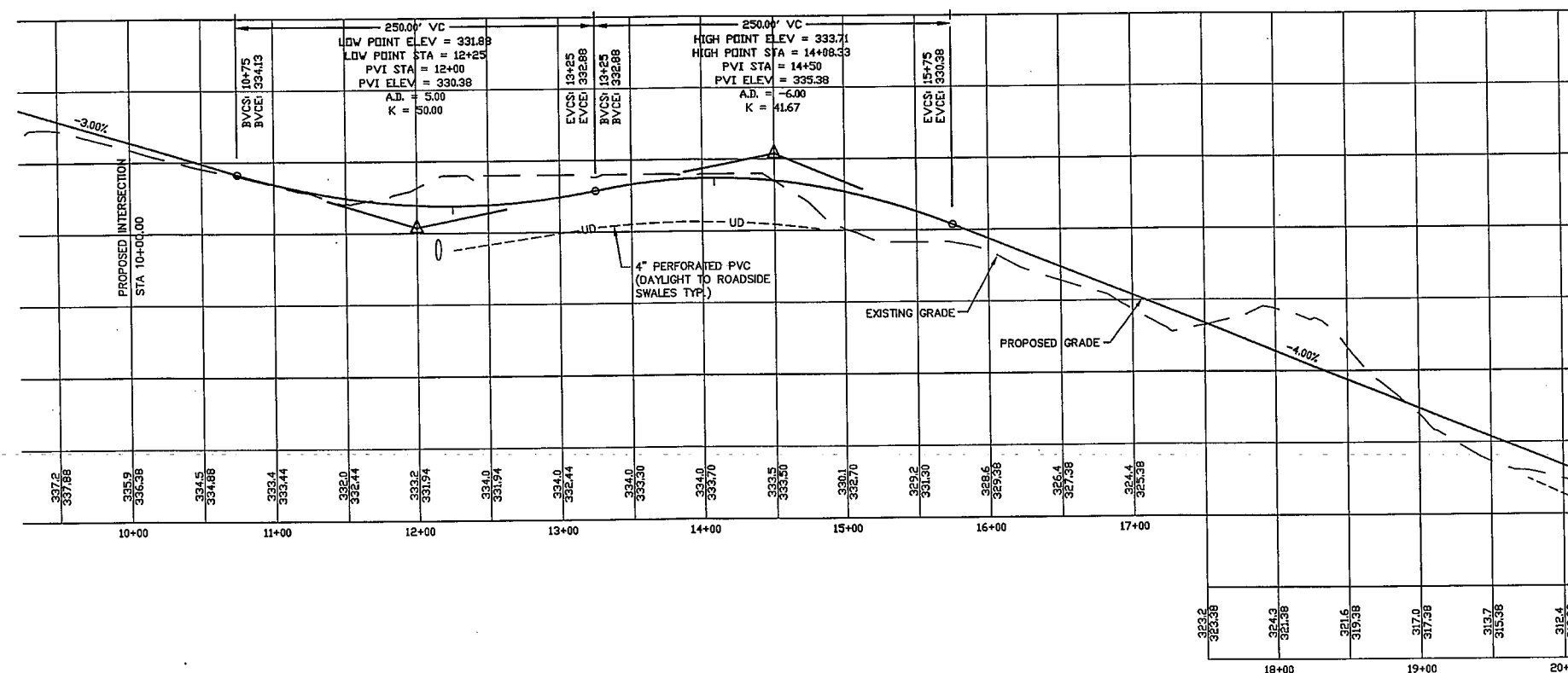


PREPARED FOR:
CABERNET BUILDERS
 P.O. BOX 929
 STRATHAM, N.H. 03885

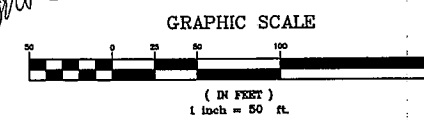
BEALS ASSOCIATES PLLC
 70 PORTSMOUTH AVE, STRATHAM, N.H. 03885
 PHONE: 603-583-4860, FAX: 603-583-4863



PROFILE SCALES:
 HORIZONTAL: 1"=40' VERTICAL: 1"=4'



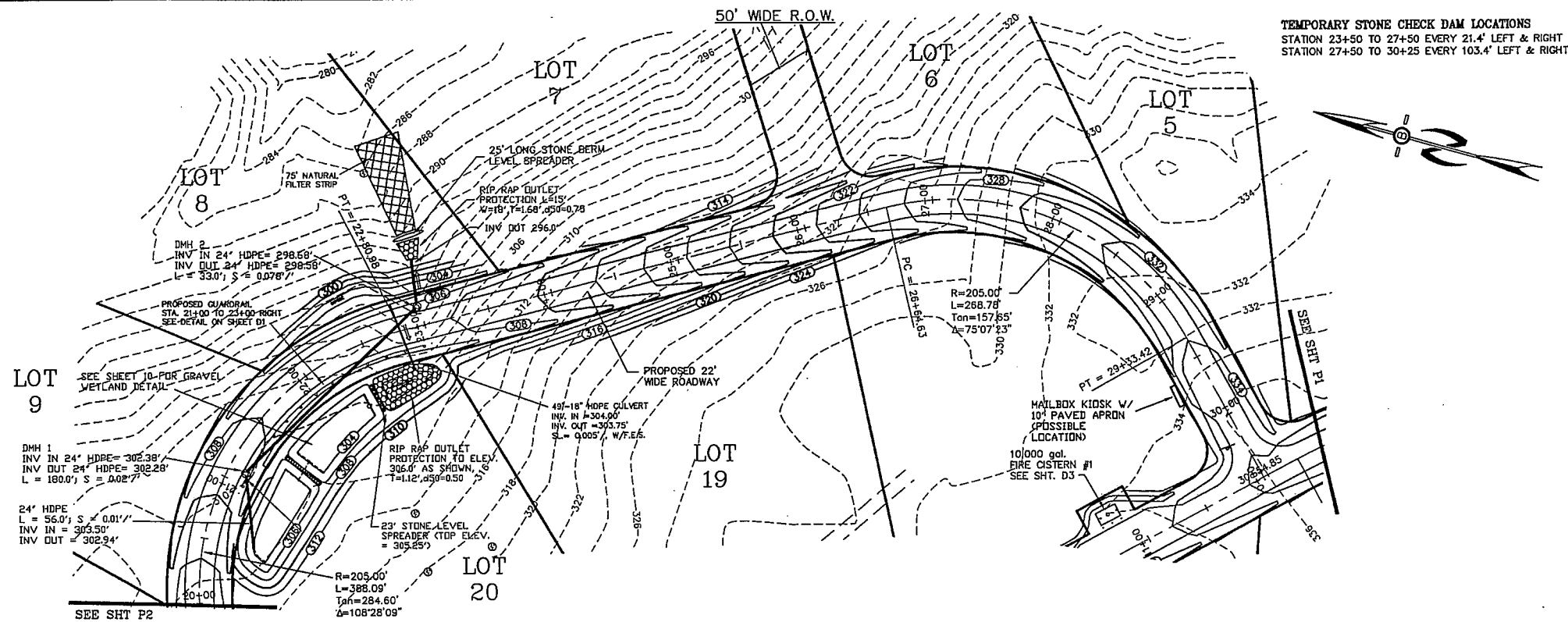
CHRISTIAN O. SMITH
 No. 8000
 LICENSED PROFESSIONAL ENGINEER
 STATE OF NEW HAMPSHIRE



REVISIONS:		DATE:
PLAN AND PROFILE		
PLAN FOR: RESIDENTIAL DEVELOPMENT BOULDER DRIVE BARRINGTON, NH		
DATE: DEC. 2013	SCALE: 1"=100'	
PROJ. NO: NH-193	SHEET NO. 7 OF 13	

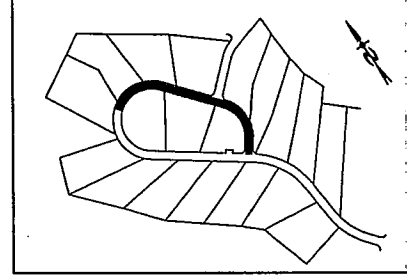
LAND USE OFFICE

DEC 10 2013
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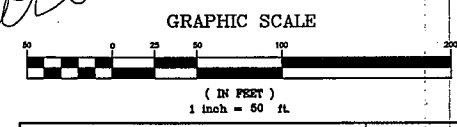
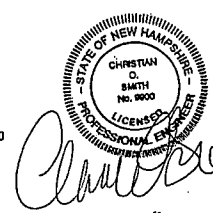
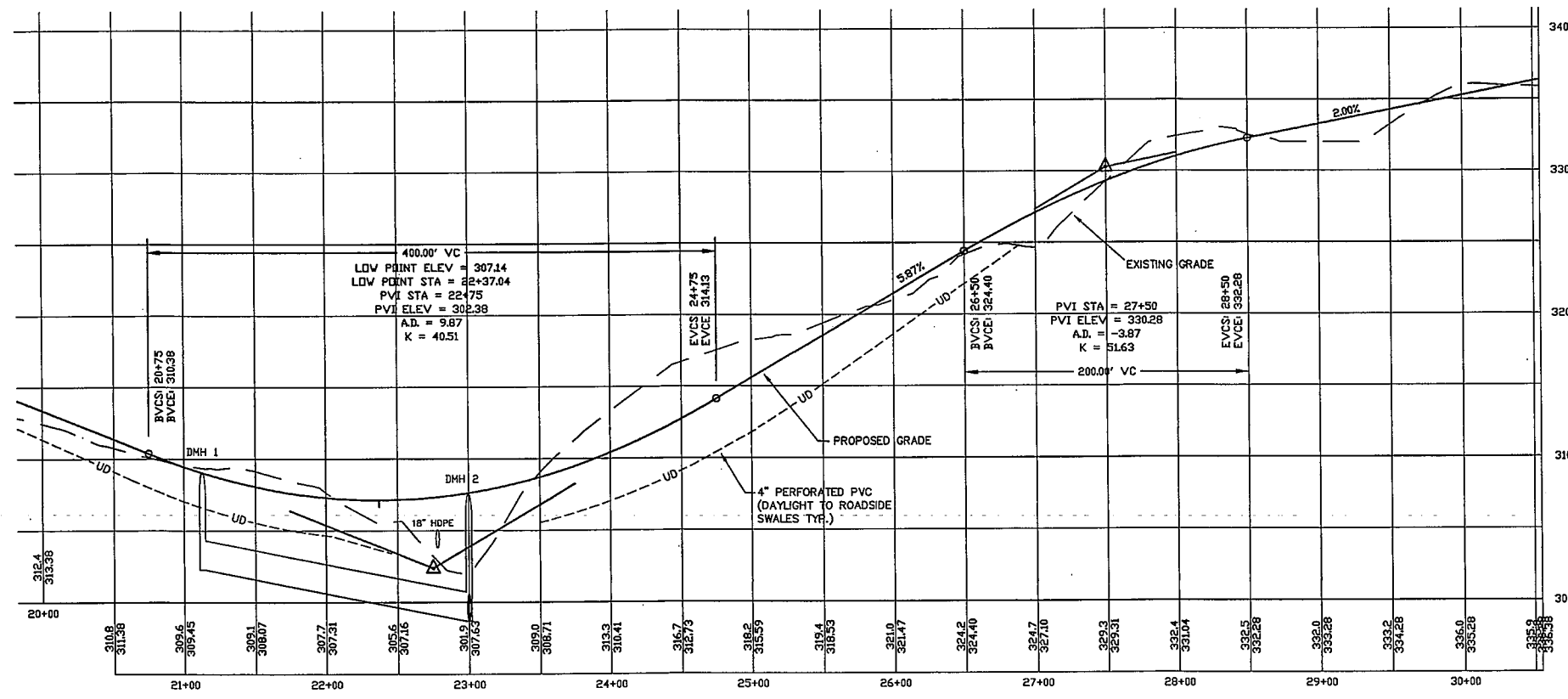


PREPARED FOR:
CABERNET BUILDERS
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STRATHAM, N.H. 03885

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



PROFILE SCALES:
HORIZONTAL: 1"=40' VERTICAL: 1"=4'

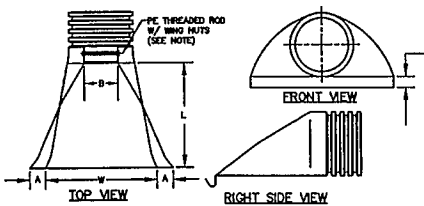


REVISIONS:	DATE:
PLAN AND PROFILE	
PLAN FOR: RESIDENTIAL DEVELOPMENT BOULDER DRIVE BARRINGTON, NH	
DATE: DEC. 2013	SCALE: 1"=100'
PROJ. NO: NH-193	SHEET NO. 8 OF 13

LAND USE OFFICE

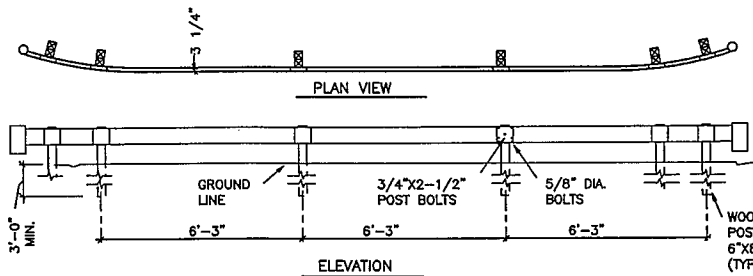
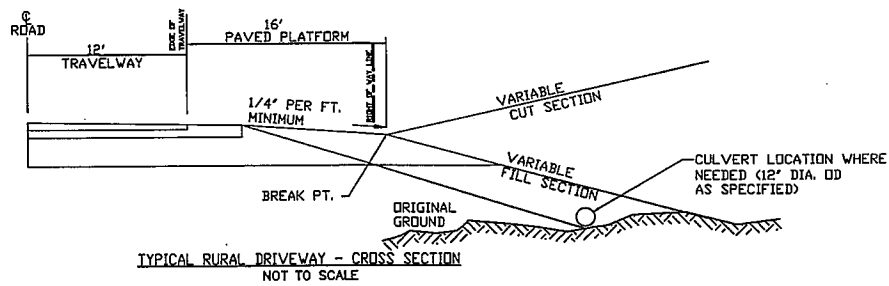
DEC 10 2013

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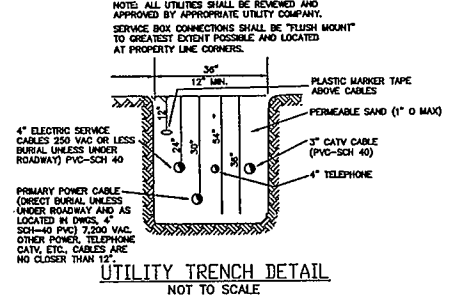
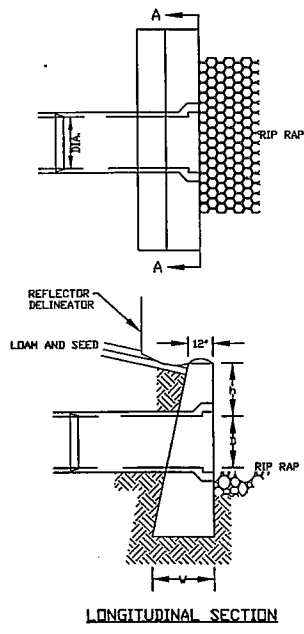
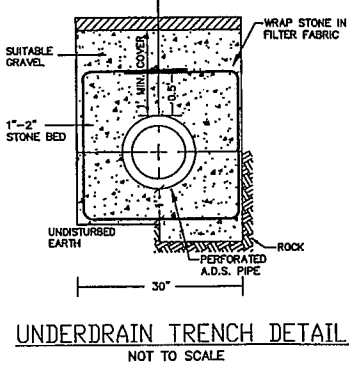
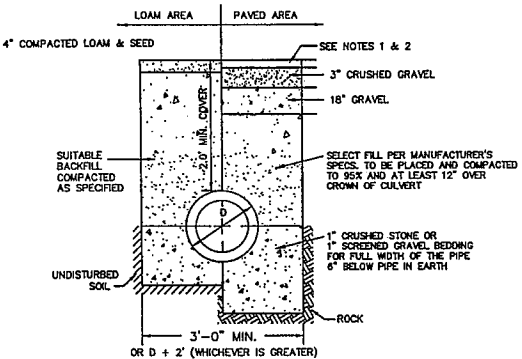
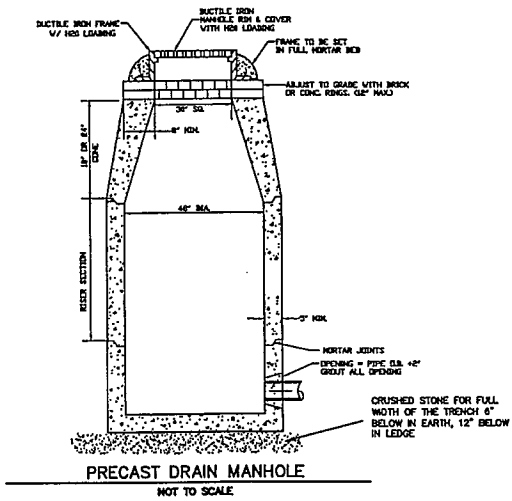


PART No.	PIPE SIZE	A	B(MAX)	H	L	W
1510-NP	15"	6.5"	10"	6.5"	25"	29"
1810-NP	18"	7.5"	15"	6.5"	32"	35"
2410-NP	24"	7.5"	18"	6.5"	36"	45"
3010-NP	30"	10.5"	N/A	7.0"	53"	68"
3610-NP	36"	10.5"	N/A	7.0"	53"	85"

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)

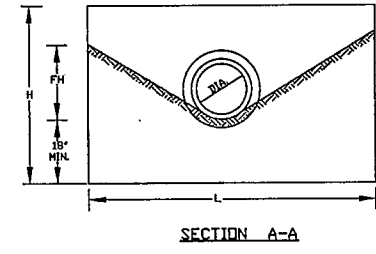


- NOTES:
- USE IN HEAVY TRAFFIC AREAS.
 - STEEL BRACKET TO BE 10 OR 12 GAGE STEEL.
 - USE 6"-0" POSTS WHEN FILL SLOPE IS 4:1 OR FLATTER.
 - ALL TIMBER POSTS TO BE TREATED WITH PRESERVATIVE MATERIAL CONFORMING TO AASHTO M133.
 - POST BOLTS TO BE 18" W/MIN. 2 1/2" THREAD LENGTH.
 - RAIL SHEET THICKNESS TO BE 12 GA.

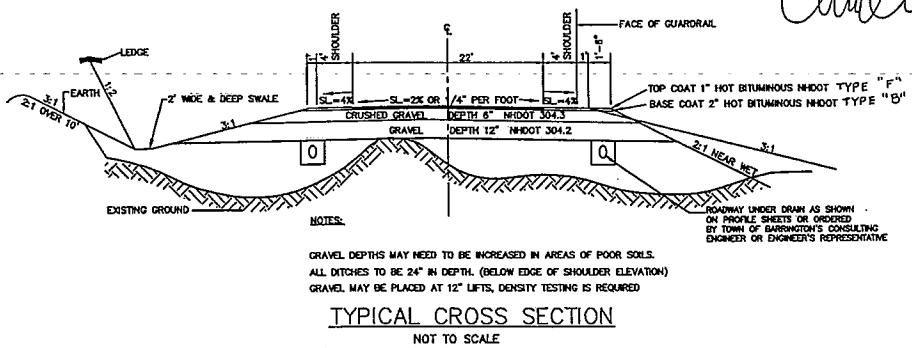
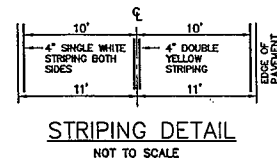


DIA.	HEADWALL LENGTH	HEADWALL HEIGHT	FILL HEIGHT	PIPE COVER	HEADWALL BOTTOM WIDTH
12"	4'-3"	3'-9"	1'-1"	1'-3"	2'-0"
15"	6'-0"	4'-3"	1'-7"	1'-6"	2'-1"
18"	7'-0"	4'-6"	1'-10"	1'-6"	2'-2"
24"	9'-0"	5'-0"	2'-4"	1'-6"	2'-3"
30"	11'-0"	5'-6"	2'-10"	1'-6"	2'-5"
36"	13'-0"	6'-0"	3'-4"	1'-6"	2'-6"
42"	15'-0"	6'-9"	4'-1"	1'-9"	2'-9"
48"	17'-0"	7'-3"	4'-7"	1'-9"	2'-10"

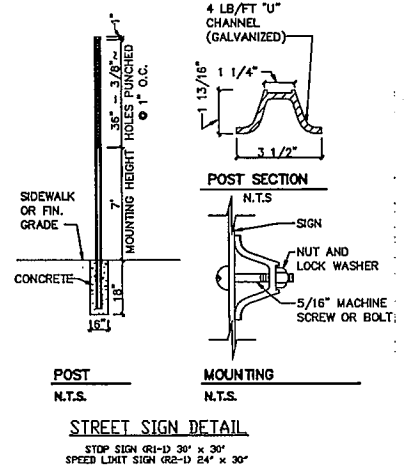
- NOTE:
- ALL DIMENSIONS GIVEN IN FEET AND INCHES EXCEPT PIPE DIAMETER.
 - PROVIDE BELL END AT INLET HEADWALL, AND SPIGOT END AT OUTLET END HEADWALL.
 - RIP-RAP SHALL BE SIZED TO RESIST THE TRACTIVE VELOCITY FORCES.



CONCRETE HEADWALL DETAIL
 NOT TO SCALE



PREPARED FOR:
CABERNET BUILDERS
 P.O. BOX 929
 STRATHAM, N.H. 03885
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 70 PORTSMOUTH AVE, STRATHAM, N.H. 03885
 PHONE: 603-583-4860, FAX: 603-583-4863



RISER-TRASH RACK DETAIL
 NOT TO SCALE

CONSTRUCTION CRITERIA

SUB GRADE PREPARATION: AREA SHALL BE CLEARED OF TREES, LOGS, STUMPS, ROOTS, BRUSH, Boulders, SOIL AND RUBBER. SUB GRADE 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 SUBGRADE 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 LOADINGS. -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, STREWS, OR LAYERS OF MATERIAL OFFER 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 PROCTOR 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.

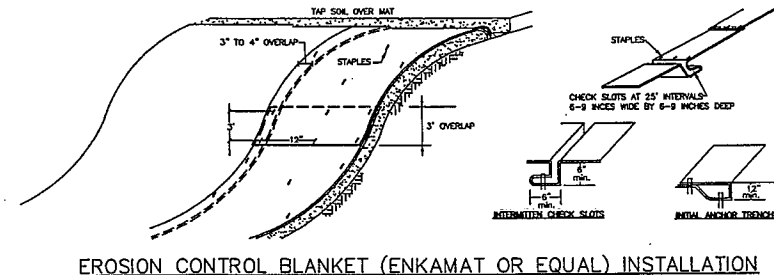
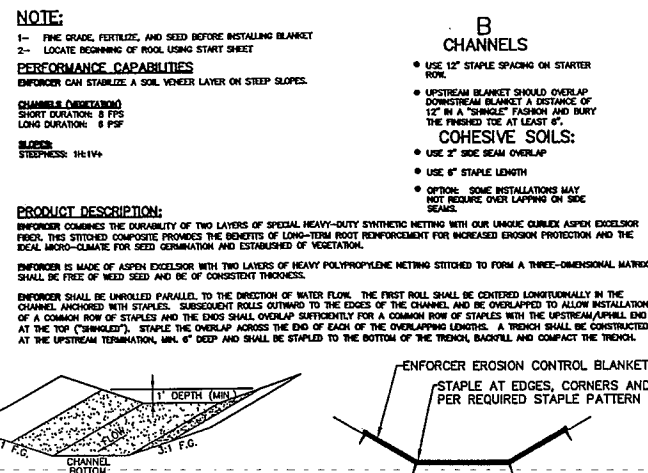
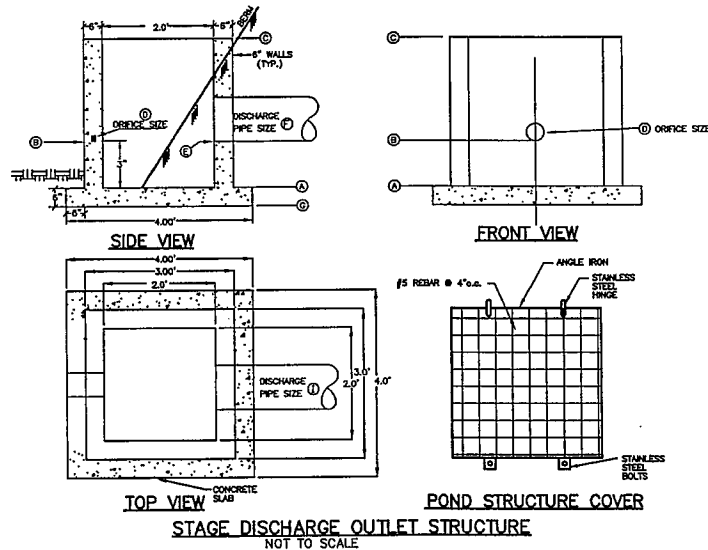
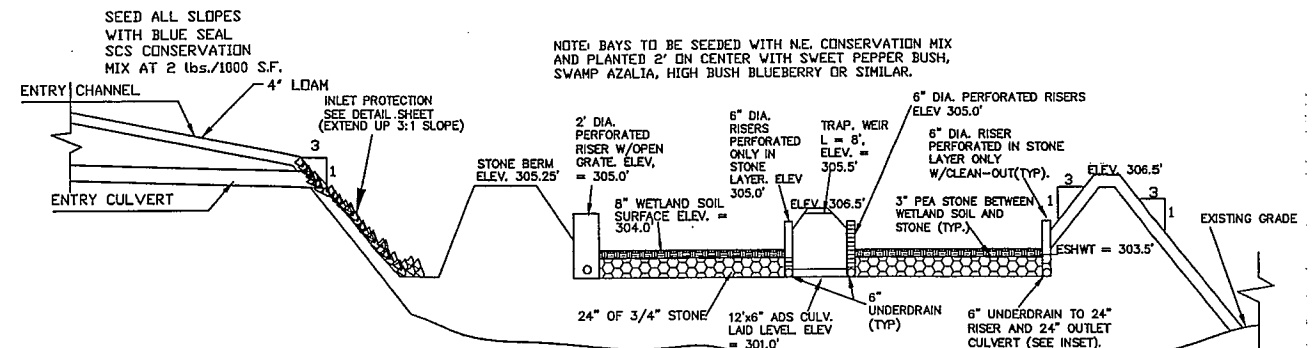
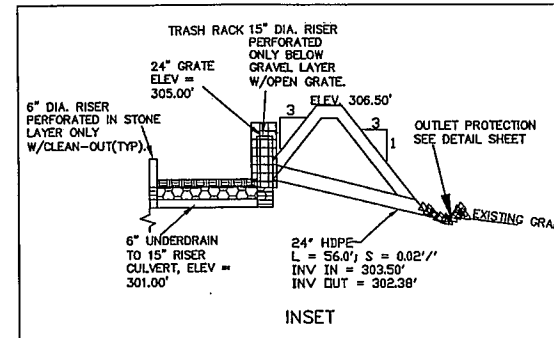
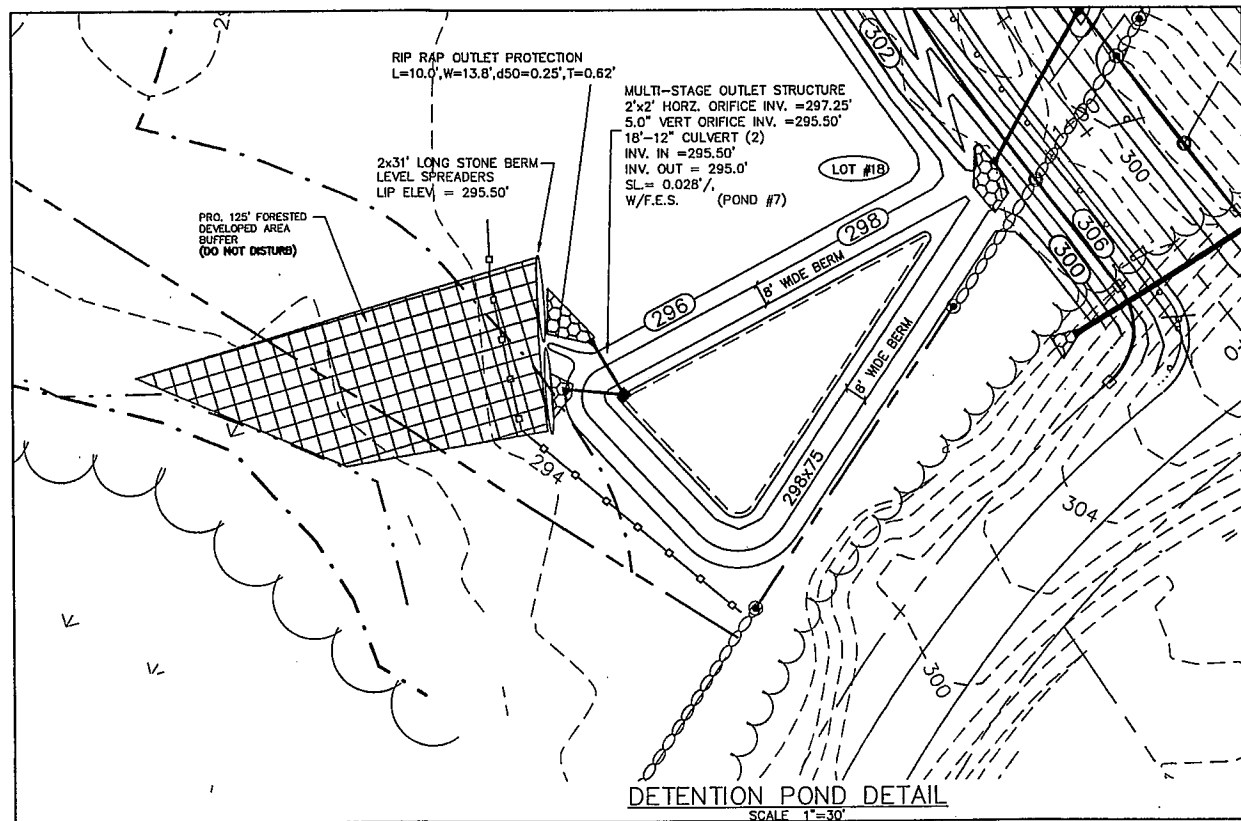
EROSION PROTECTION: A PROTECTIVE COVER OF VEGETATION SHALL BE ESTABLISHED ON ALL EXPOSED SURFACES OF THE EMBANKMENT (CUT/FILL) SLOPE, SPILLWAY, AND BORROW AREA IF SOIL AND CLIMATIC CONDITIONS PERMIT. IF CONDITIONS PRECLUDE THE USE OF VEGETATION PROTECTION IS NEEDED, NON-VEGETATION MEANS, SUCH AS EROSION BLANKETS OR RIP RAP SLOPE PROTECTION, MAY BE USED. -SEEDING, FERTILIZING, AND MULCHING SHALL COMPLY WITH THE APPROPRIATE VEGETATIVE BMP'S.

REVISIONS:		DATE:
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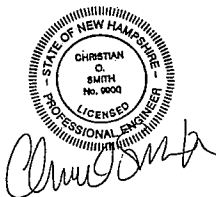
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- CONSTRUCTION GUIDELINES FOR ALL WORK WITHIN WETLANDS**
1. ALL DISTURBED SOILS WILL BE FINAL GRADED, LOAMED, AND SEEDED IMMEDIATELY AFTER CULVERTS AND HEADWALLS ARE PLACED AND BACKFILLED.
 2. ALL OF THE SIDE SLOPES WILL BE LINED WITH JUTE MATTING TO AID IN THE STABILIZATION OF THE SOIL AND SEED.
 3. ALL OF THESE CROSSINGS WILL BE PROTECTED WITH SILT FENCING, HAY BALES AND ORANGE CONSTRUCTION FENCING.
 4. DURING CONSTRUCTION OF ALL WETLAND CROSSINGS AND AT THE ENTRANCE OFF TO ROUTE 16, THE OWNER AND/OR THE TOWN OF BARRINGTON WILL HAVE A QUALIFIED REPRESENTATIVE ON-SITE TO INSPECT THE PROCESS AND VERIFY THAT ALL THE PROPER EFFORTS HAVE BEEN MADE TO MINIMIZE OR ELIMINATE FURTHER IMPACT TO THE ADJACENT WETLANDS.
 5. THE VEGETATED TREATMENT SWALE ADJACENT TO ROUTE 126 WILL BE LINED WITH SOO, RATHER THAN SEEDED, TO PROVIDE INSTANT STABILIZATION.

PREPARED FOR:
CABERNET BUILDERS
 P.O. BOX 929
 STRATHAM, N.H. 03885

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



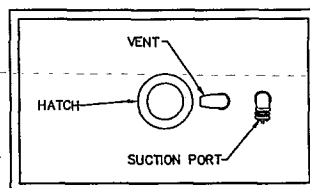
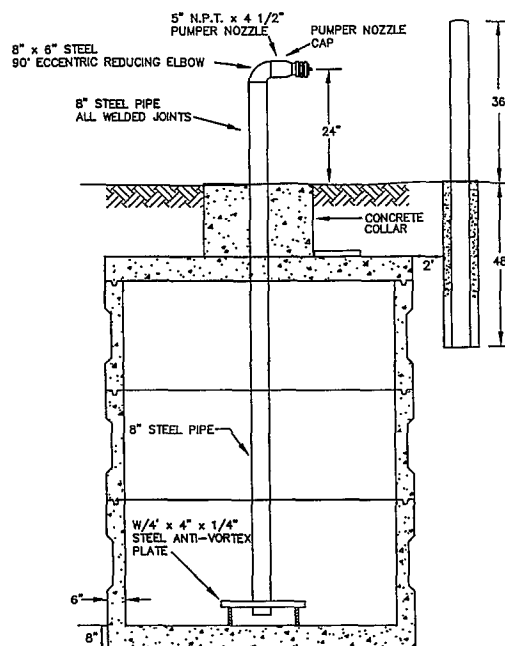
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CONSTRUCTION DETAILS D2		
PLAN FOR: RESIDENTIAL DEVELOPMENT BOULDER DRIVE BARRINGTON, NH		
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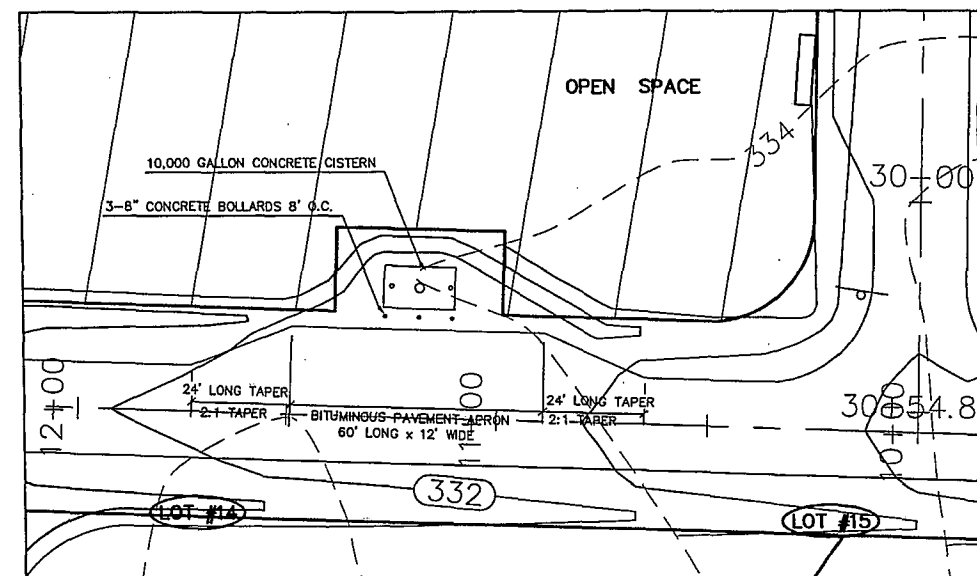
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1. THE CISTERN SHALL BE DESIGNED TO BE TROUBLE FREE, AND IT SHALL BE DESIGNED TO LAST 50 YEARS.
2. THE MINIMUM CAPACITY SHALL BE 10,000 GALLONS. DEPENDING ON THE DEVELOPMENT LAYOUT/CONFIGURATION, ADDITIONAL GALLON REQUIREMENTS MAY BE IMPOSED AT THE DISCRETION OF THE FIRE CHIEF. ALL EXCEPTIONS, ADDITIONS, OR DELETIONS WILL BE IN WRITING.
3. THE SUCTION CAPACITY SHALL BE CAPABLE OF DELIVERING 1,000 GALLONS PER MINUTE (GPM) FOR THREE-QUARTERS OF THE CISTERN CAPACITY.
4. THE ENTIRE CISTERN AND APPURTENANCES SHALL BE RATED FOR HS-20 HIGHWAY LOADING.
5. DRAWINGS OF THE DESIGN ARE FOR ESTIMATING GENERAL REQUIREMENT AND DESIGN PURPOSES ONLY AND ARE NOT INTENDED FOR USE AS DESIGN.
6. EACH CISTERN SHALL BE DESIGNED, SITED TO THE PARTICULAR LOCATION, STAMPED BY A REGISTERED ENGINEER, AND APPROVED BY THE FIRE CHIEF.
7. ALL SUCTION AND FILL PIPING SHALL BE AMERICAN SOCIETY FOR TESTING MATERIALS (ASTM) SCHEDULE 40 STEEL. ALL VENT PIPING SHALL BE ASTM SCHEDULE 40 STEEL WITH WELDED JOINTS. ALL PIPING LOCATED WITHIN THE TANK SHALL BE ASTM SCHEDULE 40 STEEL WITH WELDED JOINTS. ALL PIPING LEADING FROM THE TANK TO THE HYDRANT SHALL BE ASTM SCHEDULE 40 STEEL.
8. THE FINAL SUCTION CONNECTION SHALL BE FIVE INCH PUMPER NOZZLE WITH A CAP. THE SUCTION PIPE SHALL BE BRACED TO ENSURE DURABILITY DURING PUMPING OPERATIONS. THE FIRE CHIEF SHALL APPROVE BRACE CONFIGURATION AND INSTALLATION. THE SUCTION PIPE CONNECTION SHALL BE TWENTY-FOUR INCHES ABOVE THE LEVEL OF THE VEHICLE PAD WHERE VEHICLE WHEELS WILL BE LOCATED WHEN THE CISTERN IS IN USE.
9. THE FILLER CONNECTION SHALL BE INSTALLED INTO THE EIGHT INCH VENT WITH 4" MALE STEEL STORZ FITTING. THIS FITTING SHALL BE 24" ABOVE FINISH GRADE AND FACE THE ROAD. A THIRTY-TWO INCH DIAMETER MANHOLE WITH COVER WILL BE LOCATED ON TOP OF THE CISTERN. THE CONFIGURATION OF THIS MANHOLE SHALL ALLOW THE UNIT TO BE SECURED WITH TWO PADLOCKS AND SHALL BE APPROVED BY THE FIRE CHIEF. THE PADLOCKS WILL BE SUPPLIED BY THE FIRE DEPARTMENT.
10. THE DISTANCE FROM THE BOTTOM OF THE SUCTION PIPE TO THE PUMPER CONNECTION SHALL NOT EXCEED FOURTEEN FEET VERTICAL.
11. ALL HORIZONTAL SUCTION PIPING SHALL SLOPE SLIGHTLY UPHILL TOWARD THE PUMPER CONNECTION.
12. BEDDING FOR THE CISTERN SHALL CONSIST OF A MINIMUM OF TWELVE INCHES OF 3/4" TO 1 1/2" WASHED PEA STONE, COMPACTED. NO FILL SHALL BE USED UNDER THE STONE. OVER EXCAVATION SHALL BE FILLED WITH THE SAME STONE BEDDING MATERIAL.
13. ALL BACKFILL MATERIALS SHALL BE SCREENED GRAVEL WITH NO STONES LARGER THAN SIX INCHES AND SHALL BE COMPACTED TO 95 PERCENT OF ITS ORIGINAL VOLUME IN ACCORDANCE WITH ASTM D 1557. 16. THE TOP OF CISTERN SHALL BE INSULATED WITH VERMIN RESISTANT FOAM INSULATION AND TWO FEET OF BACKFILL WITH A MINIMUM WEIGHT OF 120 PCF, COMPACTED. FOAM USED FOR THIS INSTALLATION SHALL BE CLOSED CELL POLYURETHANE FOAM WITH AN INSULATION FACTOR OF R=5 PER INCH. ALL BACKFILL SHALL EXTEND TEN FEET BEYOND THE EDGE OF THE VEHICLE PAD AND THEN HAVE A MAXIMUM OF 3:1 SLOPE, LOAM AND SEED.
14. BEFORE ANY BACKFILLING IS DONE THE ENTIRE CISTERN SHALL BE COMPLETED AND INSPECTED BY THE FIRE CHIEF.
15. AFTER BACKFILLING, BOLLARDS OR LARGE STONES SHALL BE PLACED TO PROTECT THE TANK AND APPURTENANCES.
16. THE PITCH OF THE SHOULDER AND VEHICLE PAD FROM THE EDGE OF THE PAVEMENT TO THE PUMPER SUCTION CONNECTION SHALL BE ONE PERCENT TO THREE PERCENT DOWNGRADE.
17. THE SHOULDER AND VEHICLE PAD SHALL BE OF A SUFFICIENT LENGTH TO ALLOW CONVENIENT ACCESS TO THE SUCTION CONNECTION WHEN THE PUMPER IS SET AT 45 DEGREES TO THE ROAD. THE SHOULDER AND VEHICLE PAD SECTION SHALL CONSIST OF 3" BITUMINOUS PAVING. REFER TO SITE PLAN FOR REQUIREMENTS.
18. THE SUCTION FITTING SHALL BE LOCATED BETWEEN 22 AND 24 FEET FROM THE NEAREST RUNNING EDGE OF ROAD PAVEMENT. TWO CONCRETE FILLED STEEL BOLLARDS SHALL BE PLACED IN A MANNER TO PROTECT THE HYDRANT. THE BASE OF THESE BOLLARDS SHALL EXTEND ABOVE THE FROST LINE. THE UPPER PORTION OF THE BOLLARDS SHALL EXTEND THIRTY SIX INCHES ABOVE THE LEVEL OF THE VEHICLE PAD WHERE VEHICLE WHEELS WILL BE LOCATED WHEN THE CISTERN IS IN USE.
19. ALL CONSTRUCTION, BACKFILL, AND GRADING MATERIALS SHALL BE IN ACCORDANCE WITH PROPER CONSTRUCTION PRACTICES AND SHALL BE ACCEPTABLE TO THE FIRE CHIEF.
20. THE FIRE CHIEF (OR REPRESENTATIVE) AND THE ENGINEER'S INSPECTOR WILL BE NOTIFIED BY THE CONTRACTOR TO OBSERVE THE FOLLOWING POINTS OF INSTALLATION:
 - A. EXCAVATION COMPLETE.
 - B. CRUSHED STONE INSTALLED AND COMPACTED
 - C. BACKFILLING COMPLETE PRIOR TO PLACEMENT OF INSULATION.
 - D. PLACEMENT OF INSULATION.
 - E. START AND FINISH OF LEAKAGE TEST.
 - F. PIPING MANWAYS AND BOLLARDS IN PLACE AND PAINTED.
 - G. ALL BACKFILLING LOAM, SEED, ETC. COMPLETE WITH TURNOUT GRAVEL IN PLACE AND GRADED.
 - H. PAVEMENT COMPLETE, AND ALL OTHER WORK 100% COMPLETE.
21. THE FIRE CHIEF SHALL BE NOTIFIED OF THE DATE THAT SITE WORK IS TO BEGIN.
22. ANY EXCEPTION, ADDITIONS, OR DELETIONS ARE DATED AND NOTED BELOW:
23. CONCRETE MUST HAVE A MINIMUM OF 150 PCF.
24. STONE AND GRAVEL BACKFILL MUST HAVE A MINIMUM OF 120 PCF.

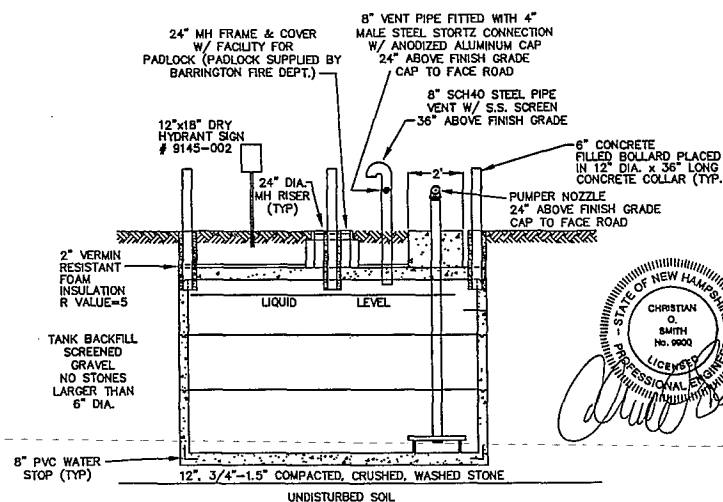


CISTERN DETAILS
NOT TO SCALE

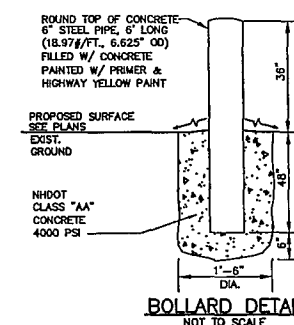


CISTERN PLAN VIEW
SCALE: 1"=20'

CISTERN #3



- NOTES :
- 1.) 10,000 GAL. CONCRETE TANK AVAILABLE AT E.F.SHEA, NEW ENGLAND CONCRETE PRODUCTS, INC. OR EQUIV.
 - 2.) HYDRANT STRUCTURE AVAILABLE FROM GULF SUPPLY OR EQUIV.
 - 3.) THE INSTALLER IS RESPONSIBLE FOR FILLING THE TANKS AFTER INSTALLATION.
 - 4.) TANK CAPACITY : $9' \times 16' \times 9.5' = 1,368 \text{ Cu.Ft.} \approx 7,480.52 = 10,233 \text{ GALS.}$
 - 5.) SEE TOWN OF BARRINGTON FIRE PROTECTION CISTERN SPECIFICATIONS (40 PARAGRAPH LISTING)



REVIEWS:		DATE:	
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