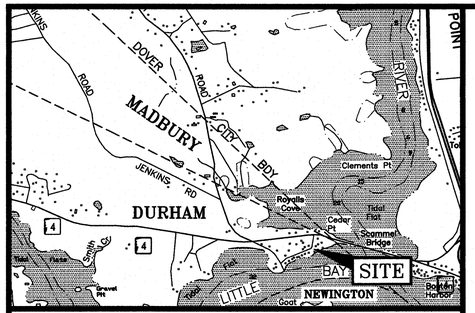


LOCATION MAP SCALE 1"=2,000'

LEGEND:

EXISTING	PROPOSED	
N/F		NOW OR FORMERLY
RP		RECORD OF PROBATE
SCRD		STRAFORD COUNTY REGISTRY OF DEEDS
11/21		MAP 11 / LOT 21
RR SPK FND	RR SPK SET	RAILROAD SPIKE FOUND/SET
IR FND	IR SET	IRON ROD FOUND/SET
IP FND	IP SET	IRON PIPE FOUND/SET
DH FND	DH SET	DRILL HOLE FOUND/SET
NHHB FND		NHDOT BOUND FOUND
TB FND		TOWN BOUND FOUND
BND w/DH	BND w/DH	BOUND w/ DRILL HOLE
		OVERHEAD ELECTRIC/WIRES
100	100	CONTOUR
97x3	98x0	SPOT ELEVATION
		EDGE OF PAVEMENT (EP)
		WOODS / TREE LINE
		UTILITY POLE (w/ GUY)
A–1		EDGE OF WETLAND FLAGGING
		SWAMP / MARSH
EL.	EL.	ELEVATION
EP	EP	EDGE OF PAVEMENT
F.F.	F.F.	FINISHED FLOOR
INV.	INV.	INVERT
TBM	TBM	TEMPORARY BENCHMARK
TYP.	TYP.	TYPICAL
LSA	LSA	LANDSCAPED AREA

PLAN REFERENCES:

1) EXISTING CONDITIONS PLAN PREPARED FOR DAVID GERARD AND MARIA BOWDEN–GERARD TAX MAP 12 LOT 1–9 33 CEDAR POINT ROAD TOWN OF DURHAM COUNTY OF STRAFFORD STATE OF NEW HAMPSHIRE. PREPARED BY MCENEANEY SURVEY ASSOCIATES, INC. DATED MARCH 20, 2007. S.C..R.D. PLAN 90–58.

2) BOUNDARY LINE AGREEMENT FOR ROEMER/SLY IN DURHAM, NH. PREPARED BY SEACOAST ENGINEERING ASSOCIATES, INC. DATED JANUARY 10, 1989. S.C.R.D. PLAN 32–103.

3) PLAN OF LOT JACOB CIBOROWSKI DURHAM NEW HAMPSHIRE. PREPARED BY G.L. DAVIS & ASSOCIATES. DATED OCTOBER 1970. S.C.R.D. POCKET 1 FOLDER 13 PLAN 33.

I CERTIFY THAT THIS PLAN WAS PREPARED UNDER MY DIRECT SUPERVISION, THAT IT IS THE RESULT OF A FIELD SURVEY BY THIS OFFICE AND HAS AN ACCURACY OF THE CLOSED TRAVERSE THAT EXCEEDS THE PRECISION OF 1:15,000.

I CERTIFY THAT THIS SURVEY PLAT IS NOT A SUBDIVISION PURSUANT TO THIS TITLE AND THAT THE LINES OF STREETS AND WAYS SHOWN ARE THOSE OF PUBLIC OR PRIVATE STREETS OR WAYS ALREADY ESTABLISHED AND THAT NO NEW WAYS ARE SHOWN.

PAUL A. DOBBERSTEIN, LLS #1000 — DATE 1/18/2018

STATE OF NEW HAMPSHIRE — No. 1000 — PAUL DOBBERSTEIN — SIGNATURE — LICENSED LAND SURVEYOR

NEW HAMPSHIRE — Designer of Subsurface Disposal Systems — John R. Chagnon No. 785 — Department of Environmental Services

TEST PIT #1, ELEV. 16.8±

Date:	12/6/17
Logged by:	STEVE RIKER
Witnessed by:	AUDREY CLINE
ESHWT:	14"
Observed Water:	NONE
Restrictive layer:	14"
REFUSAL:	NONE TO 39"
Percolation rate:	6 min./inch
Roots:	NONE

DEPTH	DESCRIPTION
0" – 6"	2.5Y 4/2 SILTY LOAM
6" – 14"	2.5Y 4/3 SILTY LOAM
14" – 39"	2.5Y 5/2 SILT LOAM, MASSIVE FIRM

TEST PIT #2, ELEV. 17.9±

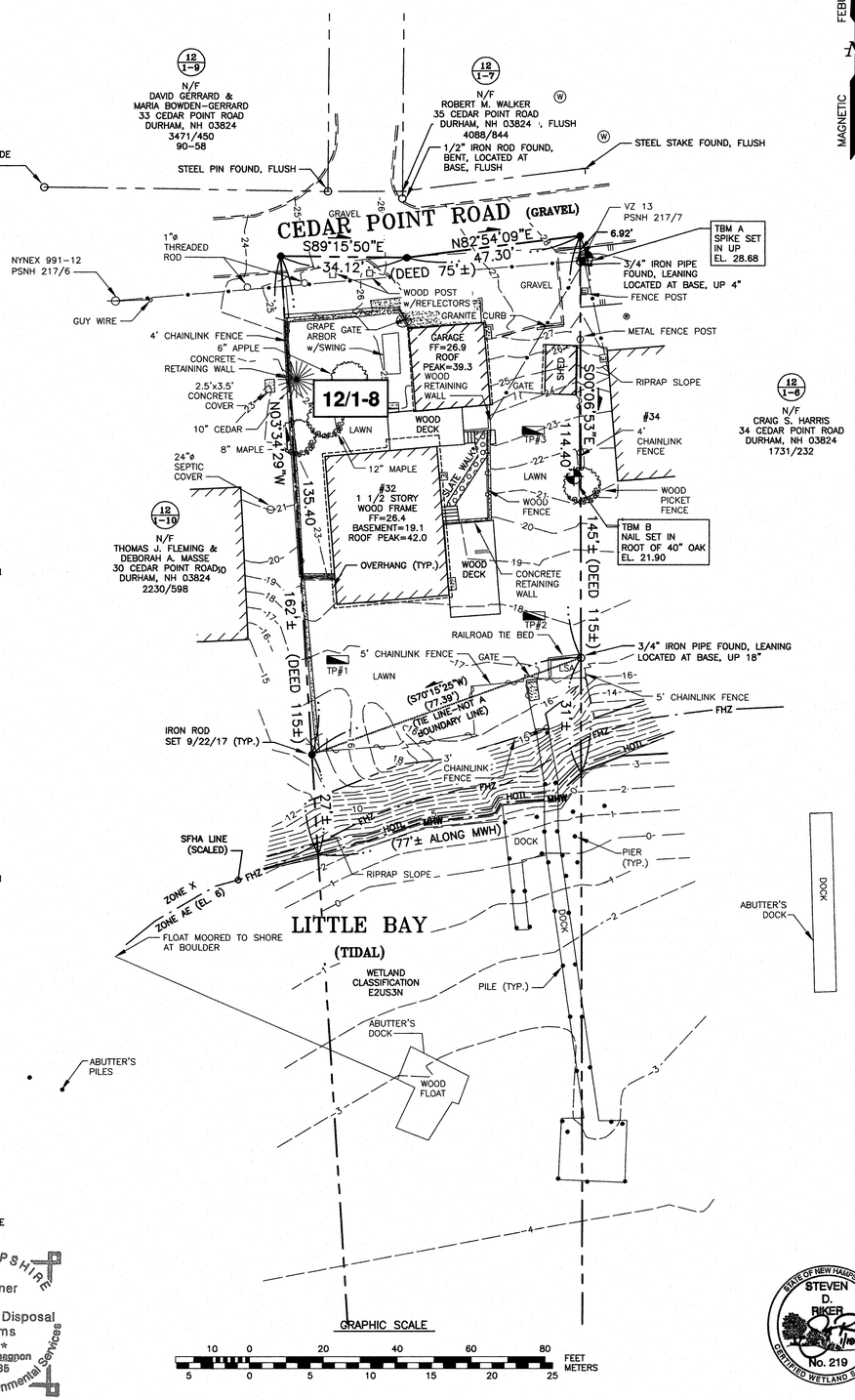
Date:	12/6/17
Logged by:	STEVE RIKER
Witnessed by:	AUDREY CLINE
ESHWT:	18"
Observed Water:	NONE
Restrictive layer:	18"
REFUSAL:	NONE TO 47"
Percolation rate:	6 min./inch
Roots:	NONE

DEPTH	DESCRIPTION
0" – 6"	10YR 4/2 FINE SANDY LOAM, GRANULAR, FRIABLE
6" – 18"	2.5Y 4/3 FINE SANDY LOAM, GRANULAR, FRIABLE
18" – 47"	2.5Y 5/2 SILT LOAM, MASSIVE FIRM

TEST PIT #3, ELEV. 23±

Date:	12/6/17
Logged by:	STEVE RIKER
Witnessed by:	AUDREY CLINE
ESHWT:	34"
Observed Water:	NONE
Restrictive layer:	34"
REFUSAL:	60"
Percolation rate:	6 min./inch
Roots:	NONE

DEPTH	DESCRIPTION
0" – 5"	10YR 4/2 FINE SANDY LOAM, GRANULAR, FRIABLE (FILL)
5" – 14"	10YR 4/3 FINE SANDY LOAM, GRANULAR, FRIABLE (FILL)
14" – 34"	2.5Y 4/3 SILT LOAM
34" – 60"	2.5Y 4/2 SILT LOAM, FIRM, MASSIVE



FEBRUARY 2007 PLAN 90–58 — N — MAGNETIC PER SCRD

DEMOLITION NOTES

A) THE LOCATIONS OF UNDERGROUND UTILITIES ARE APPROXIMATE AND THE LOCATIONS ARE NOT GUARANTEED BY THE OWNER OR THE DESIGNER. IT IS THE CONTRACTORS' RESPONSIBILITY TO LOCATE UTILITIES AND ANTICIPATE CONFLICTS. CONTRACTOR SHALL REPAIR EXISTING UTILITIES DAMAGED BY THEIR WORK AND RELOCATE EXISTING UTILITIES THAT ARE REQUIRED TO BE RELOCATED PRIOR TO COMMENCING ANY WORK IN THE IMPACTED AREA OF THE PROJECT.

B) ALL MATERIALS SCHEDULED TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTORS UNLESS OTHERWISE SPECIFIED. THE CONTRACTOR SHALL DISPOSE OF ALL MATERIALS OFF–SITE IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS, ORDINANCES AND CODES. THE CONTRACTOR SHALL COORDINATE REMOVAL, RELOCATION, DISPOSAL, OR SALVAGE OF UTILITIES WITH THE OWNER AND APPROPRIATE UTILITY COMPANY.

C) ANY EXISTING WORK SCHEDULED TO REMAIN OR ADJACENT PROPERTY DAMAGED OR DISRUPTED BY CONSTRUCTION/DEMOLITION ACTIVITIES SHALL BE REPLACED OR REPAIRED TO THE ORIGINAL EXISTING CONDITIONS BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

D) IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE THEMSELVES WITH THE CONDITIONS OF ALL THE PERMIT APPROVALS.

E) THE CONTRACTOR SHALL PAY ALL COSTS NECESSARY FOR TEMPORARY PARTITIONING, BARRICADING, FENCING, SECURITY AND SAFELY DEVICES REQUIRED FOR THE MAINTENANCE OF A CLEAN AND SAFE CONSTRUCTION SITE.

F) ANY CONTAMINATED MATERIAL REMOVED DURING THE COURSE OF THE WORK WILL REQUIRE HANDLING IN ACCORDANCE WITH NHDES REGULATIONS. CONTRACTOR SHALL HAVE A HEALTH AND SAFETY PLAN IN PLACE, AND COMPLY WITH ALL APPLICABLE PERMITS, APPROVALS, AUTHORIZATIONS, AND REGULATIONS

G) ALL THE EXISTING SITE IMPROVEMENTS ARE TO BE REMOVED.

WETLAND NOTES:

1) HIGHEST OBSERVABLE TIDE LINE DELINEATED BY STEVEN D. RIKER, CWS ON 8/10/2017 IN ACCORDANCE WITH THE FOLLOWING STANDARDS:

A) U.S. ARMY CORPS OF ENGINEERS WETLANDS DELINEATION MANUAL. TECHNICAL REPORT Y–87–1 (JAN. 1987). AND REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: NORTHCENTRAL AND NORTHEAST REGION, VERSION 2.0, JANUARY 2012.

B) FIELD INDICATORS OF HYDRIC SOILS IN THE UNITED STATES, VERSION 8.1, USDA–NRCS, 2017 AND (FOR DISTURBED SITES) FIELD INDICATORS FOR IDENTIFYING HYDRIC SOILS IN NEW ENGLAND, VERSION 4. NEIWPCC WETLANDS WORK GROUP (2017).

C) NATIONAL LIST OF PLANT SPECIES THAT OCCUR IN WETLANDS: NORTHEAST (REGION 1). USFWS (MAY 1988).

D) CLASSIFICATION OF WETLANDS AND DEEPWATER HABITATS OF THE UNITED STATES. USFW MANUAL FWS/OBS–79/31 (1997).

E) "IDENTIFICATION AND DOCUMENTATION OF VERNAL POOLS IN NEW HAMPSHIRE" (1997). NEW HAMPSHIRE FISH AND GAME DEPARTMENT.

2) WETLAND FLAGS WERE FIELD LOCATED BY AMBIT ENGINEERING, INC.

STATE OF NEW HAMPSHIRE — STEVEN D. RIKER — 10/16/18 — No. 219 — CERTIFIED WETLAND SCIENTIST

AMBIT ENGINEERING, INC.
Civil Engineers & Land Surveyors
200 Griffin Road – Unit 3
Portsmouth, N.H. 03801–7114
Tel (603) 430–9282
Fax (603) 436–2315

NOTES:

1) PARCEL IS SHOWN ON THE TOWN OF DURHAM ASSESSOR'S MAP 12 AS LOT 1–8.

2) OWNERS OF RECORD:
MANISHA P. HEIDERSCHEIDT
2010 REVOCABLE TRUST
MANISHA P. HEIDERSCHEIDT &
BENEDICT G. HEIDERSCHEIDT, TRUSTEES
21 CAVERNO DRIVE
LEE, NH 03861
4495/149

3) A PORTION OF THE PARCEL IS IN A SPECIAL FLOOD HAZARD AREA AS SHOWN ON FIRM PANEL 33017C0340E. EFFECTIVE DATE SEPTEMBER 30, 2015.

4) EXISTING LOT AREA:
11,794± SF
0.2708± ACRES

5) PARCEL IS LOCATED IN RESIDENCE COASTAL (RC) ZONING DISTRICT AND IS SUBJECT TO THE SHORELAND PROTECTION OVERLAY DISTRICT.

6) DIMENSIONAL REQUIREMENTS:

MIN. LOT AREA:		150,000 SF
FRONTAGE:	ROAD	300 FEET
	SHORELAND	200 FEET
SETBACKS:	FRONT	30 FEET
	SIDE	50 FEET
	REAR	50 FEET
MAXIMUM BUILDING HEIGHT:		30 FEET
(35' WITH CONDITIONAL USE)		
MAXIMUM IMPERVIOUS SURFACE RATIO: 20%		

7) THE PURPOSE OF THIS PLAN IS TO SHOW THE RESULT OF A STANDARD BOUNDARY AND TOPOGRAPHIC SURVEY OF TAX MAP 12 LOT 1–8 IN THE TOWN OF DURHAM.

8) VERTICAL DATUM IS MEAN SEA LEVEL NAVD88. BASIS OF VERTICAL DATUM IS NH DOT BENCHMARK 133–0410.

9) MEAN HIGH WATER LINE IS SHOWN AT ELEVATION 3.37 PER NOAA STATION 0420411 – DOVER, COCHECO RIVER.

10) CEDAR POINT ROAD IS REFERRED IN THE SUBJECT PARCEL, AS WELL AS ABUTTING DEEDS AS AN EIGHTEEN FOOT RIGHT OF WAY. FOR THE PURPOSE OF ESTABLISHING THE BOUNDARIES OF THE PARCEL, THIS WIDTH WAS HELD. RIGHTS OF THE PUBLIC MAY EXIST OVER THE TRAVELED PORTION OF CEDAR POINT ROAD WITHIN THE BOUNDARIES OF THE SUBJECT PARCEL.

NO.	DESCRIPTION	DATE
2	ISSUED FOR APPROVAL	1/5/18
1	ADD MONUMENTS AS SET	10/16/17
0	ISSUED FOR COMMENT	9/5/17

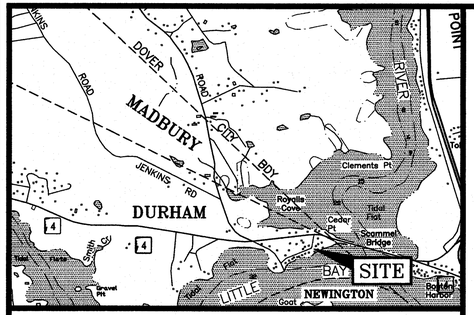
REVISIONS

STANDARD BOUNDARY AND TOPOGRAPHIC SURVEY
TAX MAP 12 – LOT 1–8
OWNER
MANISHA P. HEIDERSCHEIDT
2010 REVOCABLE TRUST
32 CEDAR POINT ROAD
TOWN OF DURHAM
COUNTY OF STRAFFORD
STATE OF NEW HAMPSHIRE

SCALE 1"=20' *SEPTEMBER 2017*

FB 231 PG 68 — 2801

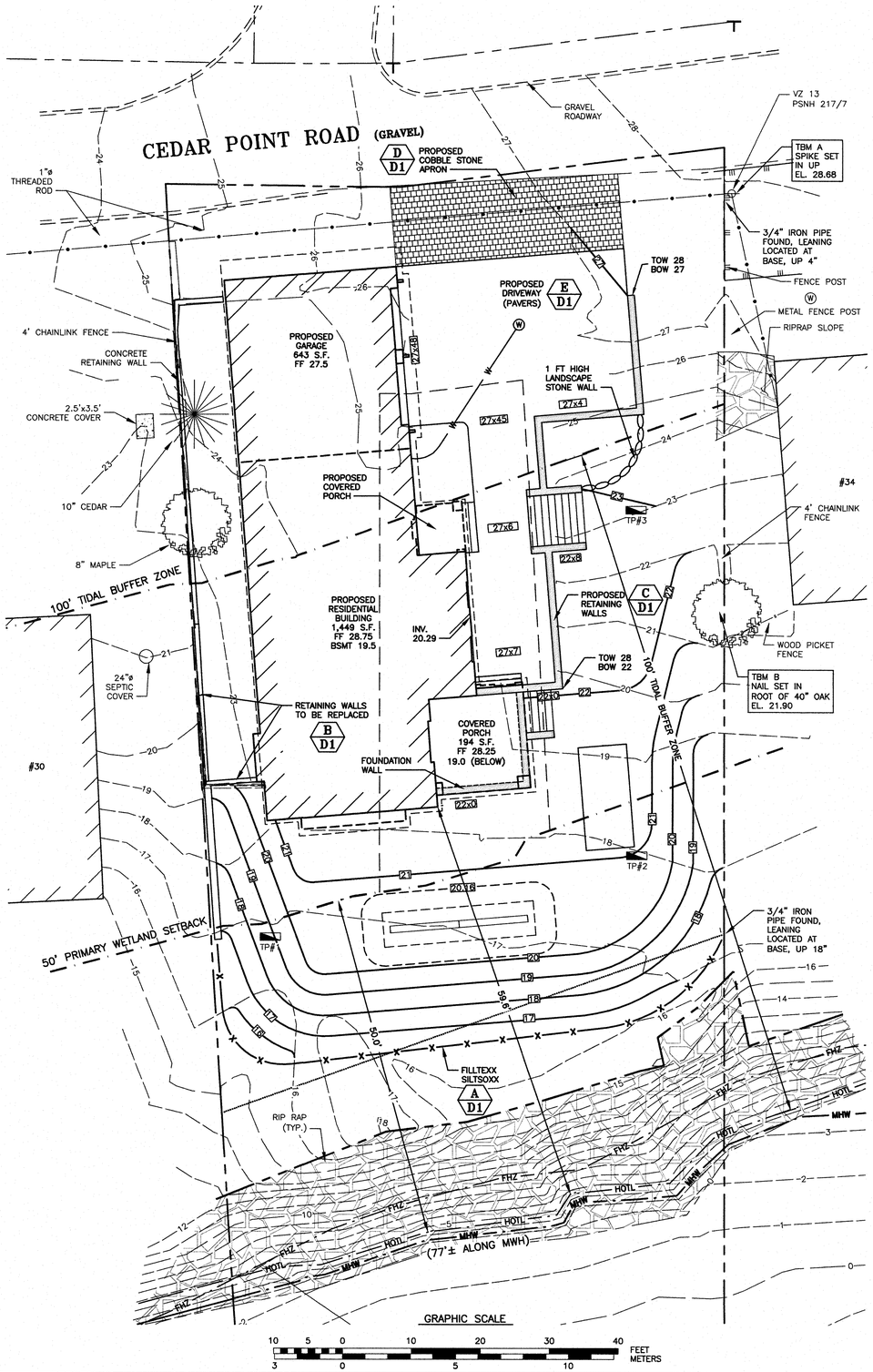
J:\JOBS2\JN2800's\JN 2800's\JN 2801\2017 Site Re–development\Plans & Specs\Site\2801 SITE 2017.dwg, BNDRY NH



LOCATION MAP SCALE 1"=2,000'

LEGEND:

EXISTING	PROPOSED	
N/F		NOW OR FORMERLY
RP		RECORD OF PROBATE
SCRD		STRAFORD COUNTY REGISTRY OF DEEDS
11/21		MAP 11 / LOT 21
RR SPK FND	RR SPK SET	RAILROAD SPIKE FOUND/SET
IR FND	IR SET	IRON ROD FOUND/SET
IP FND	IP SET	IRON PIPE FOUND/SET
DH FND	DH SET	DRILL HOLE FOUND/SET
NHHB FND		NHDOT BOUND FOUND
TB FND		TOWN BOUND FOUND
BND w/DH	BND w/DRILL HOLE	BOUND w/ DRILL HOLE
100	100	CONTOUR
97x3	98x0	SPOT ELEVATION
		EDGE OF PAVEMENT (EP)
		WOODS / TREE LINE
		UTILITY POLE (w/ GUY)
A-1		EDGE OF WETLAND FLAGGING
		SWAMP / MARSH
EL.	EL.	ELEVATION
EP	EP	EDGE OF PAVEMENT
F.F.	F.F.	FINISHED FLOOR
INV.	INV.	INVERT
TBM	TBM	TEMPORARY BENCHMARK
TYP.	TYP.	TYPICAL
LSA	LSA	LANDSCAPED AREA



FEBURARY 2007 PLAN 90-58

N

MAGNETIC PER SCRD

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2) WETLAND FLAGS WERE FIELD LOCATED BY AMBIT ENGINEERING, INC.

NHDES IMPACT AREAS IN S.F.

	PERMANENT IMPACT AREAS	TEMPORARY IMPACT AREAS
250' PROTECTED SHORELAND ZONE	2,743	610
100' TIDAL BUFFER ZONE	2,197	3,672
TOTAL:	4,940	4,282

IMPERVIOUS SURFACE AREAS (TO PROPERTY LINE)

STRUCTURE	PRE-CONSTRUCTION IMPERVIOUS (S.F.)	POST-CONSTRUCTION IMPERVIOUS (S.F.)
MAIN STRUCTURE & PORCHES	1,886	2,369
STAIRS	22	107
SHED	125	0
DECKS	486	0
CONCRETE/PAVERS	260	0
GRAVEL	935	0
RETAINING WALLS	239	184
COBBLE STONE DRIVEWAY		374
DOCK	70	80
TOTAL	4,023	3,115
LOT SIZE	11,794	11,794
% LOT COVERAGE	34.1%	26.4%

AMBIT ENGINEERING, INC.
Civil Engineers & Land Surveyors
200 Griffin Road - Unit 3
Portsmouth, N.H. 03801-7114
Tel (603) 430-9282
Fax (603) 436-2315

NOTES:

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ZONING CALCULATIONS:

		REQUIRED	EXISTING	PROPOSED
MIN. LOT AREA:		150,000 SF	11,794 SF	11,794 SF
MIN. LOT FRONTAGE:	ROAD:	300 FEET	82 FEET	82 FEET
SHORELAND:		200 FEET	77 FEET	77 FEET
FRONT SETBACK:		30 FEET	20 FEET	11.6 FEET
SIDE SETBACK:		50 FEET	8 FEET	7.6 FEET
REAR SETBACK:		50 FEET	57 FEET	61.2 FEET
MAX. STRUCTURE HEIGHT:		30 FEET	30 FEET	30 FEET
MAX. IMPERVIOUS COVERAGE:		20%	34.1%	26.8%

HEIDERSCHEIDT RESIDENCE
32 CEDAR POINT ROAD
DURHAM, N.H.

NO.	DESCRIPTION	DATE
1	ISSUED FOR APPROVAL	1/5/18
0	ISSUED FOR COMMENT	9/5/17

REVISIONS

STATE OF NEW HAMPSHIRE LICENSED LAND SURVEYOR No. 733 JOHN R. CHAGNON

JOHN R. CHAGNON No. 7651 LICENSED PROFESSIONAL ENGINEER STATE OF NEW HAMPSHIRE

STATE OF NEW HAMPSHIRE STEVEN D. RIKER No. 219 CERTIFIED WETLAND SCIENTIST

SCALE 1"=10' SEPTEMBER 2017

NHDES PERMIT PLAN

C2

FB 231 PG 68

2801

J:\JOBS2_UN2800's\JN 2800's\JN 2801\2017 Site Re-development\Plans & Specs\Site\2801 SITE 2017.dwg, NHDES_PERMIT

EROSION CONTROL NOTES

CONSTRUCTION SEQUENCE

DO NOT BEGIN CONSTRUCTION UNTIL ALL LOCAL, STATE AND FEDERAL PERMITS HAVE BEEN APPLIED FOR AND RECEIVED.

IF REQUIRED THE CONTRACTOR SHALL OBTAIN AN **NPDES** PHASE II STORMWATER PERMIT AND SUBMIT A NOTICE OF INTENT (N.O.I) BEFORE BEGINNING CONSTRUCTION AND SHALL HAVE ON SITE A STORMWATER POLLUTION PREVENTION PLAN (**S.W.P.P.P.**) AVAILABLE FOR INSPECTION BY THE PERMITTING AUTHORITY DURING THE CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CARRYING OUT THE **S.W.P.P.P.** AND INSPECTING AND MAINTAINING ALL BMP'S CALLED FOR BY THE PLAN. THE CONTRACTOR SHALL SUBMIT A NOTICE OF TERMINATION (**N.O.T.**) FORM TO THE REGIONAL EPA OFFICE WITHIN 30 DAYS OF FINAL STABILIZATION OF THE ENTIRE SITE OR TURNING OVER CONTROL OF THE SITE TO ANOTHER OPERATOR.

INSTALL PERIMETER CONTROLS, i.e., SILT FENCING OR SILTSOXX AROUND THE LIMITS OF DISTURBANCE BEFORE ANY EARTH MOVING OPERATIONS. THE USE OF HAYBALES IS NOT ALLOWED.

CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE, IF REQUIRED

PERFORM DEMOLITION.

CUT AND GRUB ALL TREES, SHRUBS, SAPLINGS, BRUSH, VINES AND REMOVE OTHER DEBRIS AND RUBBISH AS REQUIRED.

BULLDOZE TOPSOIL INTO STOCKPILES, AND CIRCLE WITH SILT FENCING OR SILTSOXX. IF EROSION IS EXCESSIVE, THEN COVER WITH MULCH.

CONSTRUCT SEPTIC SYSTEM AND SHORE IMPROVEMENTS, BUT DO NOT ALLOW INFLOW UNTIL ALL CONTRIBUTING AREAS ARE STABILIZED AND EROSION–FREE. ROUGH GRADE SITE.

INSTALL FOUNDATIONS

LAYOUT AND INSTALL ALL BURIED UTILITIES AND SERVICES UP TO 10' OF THE PROPOSED BUILDING FOUNDATIONS. CAP AND MARK TERMINATIONS OR LOG SWING TIES.

ROUGH GRADE SITE, BACKFILL DRIVEWAY IN TWO, COMPACTED LIFTS. PROVIDE TEMPORARY EROSION PROTECTION TO DITCHES AND SWALES IN THE FORM OF MULCHING, JUTE MESH OR DITCH DAMS.

CONSTRUCT SITE IMPROVEMENTS

PLANT LANDSCAPING IN AREAS OUT OF WAY OF BUILDING CONSTRUCTION. PREPARE AND STABILIZE FINAL SITE GRADING BY ADDING TOPSOIL, SEED, MULCH AND FERTILIZER.

AFTER BUILDING IS COMPLETED, FINISH ALL REMAINING LANDSCAPED WORK.

CONSTRUCT REMAINING IMPROVEMENTS.

REMOVE TRAPPED SEDIMENTS FROM COLLECTION DEVICES AS APPROPRIATE, AND THEN REMOVE TEMPORARY EROSION CONTROL MEASURES UPON COMPLETION OF FINAL STABILIZATION OF THE SITE.

LOT DISTURBANCE, OTHER THAN THAT SHOWN ON THE APPROVED PLANS, SHALL NOT COMMENCE UNTIL AFTER THE ROADWAY HAS THE BASE COURSE TO DESIGN ELEVATION AND THE ASSOCIATED DRAINAGE IS COMPLETE AND STABLE.

GENERAL CONSTRUCTION NOTES

THE EROSION CONTROL PROCEDURES SHALL CONFORM TO SECTION 645 OF THE "STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION" OF THE NHDOT, AND "STORM WATER MANAGEMENT AND EROSION AND SEDIMENT CONTROL HANDBOOK FOR URBAN AND DEVELOPING AREAS IN NEW HAMPSHIRE". THE PROJECT IS TO BE MANAGED IN A MANNER THAT MEETS THE REQUIREMENTS AND INTENT OF RSA 430:53 AND CHAPTER AGR 3800 RELATIVE TO INVASIVE SPECIES.

DURING CONSTRUCTION AND THEREAFTER, EROSION CONTROL MEASURES ARE TO BE IMPLEMENTED AS NOTED. THE SMALLEST PRACTICAL AREA OF LAND SHOULD BE EXPOSED AT ANY ONE TIME DURING DEVELOPMENT. NO DISTURBED AREA SHALL BE LEFT UNSTABILIZED FOR MORE THAN 45 DAYS.

ANY DISTURBED AREAS WHICH ARE TO BE LEFT TEMPORARILY, AND WHICH WILL BE REGRADED LATER DURING CONSTRUCTION SHALL BE MACHINE HAY MULCHED AND SEEDED WITH RYE GRASS TO PREVENT EROSION.

DUST CONTROL: IF TEMPORARY STABILIZATION PRACTICES, SUCH AS TEMPORARY VEGETATION AND MULCHING, DO NOT ADEQUATELY REDUCE DUST GENERATION, APPLICATION OF WATER OR CALCIUM CHLORIDE SHALL BE APPLIED IN ACCORDANCE WITH BEST MANAGEMENT PRACTICES.

SILT FENCES AND SILTSOXX SHALL BE PERIODICALLY INSPECTED DURING THE LIFE OF THE PROJECT AND AFTER EACH STORM. ALL DAMAGED SILT FENCES AND SILTSOXX SHALL BE REPAIRED. SEDIMENT DEPOSITS SHALL PERIODICALLY BE REMOVED AND DISPOSED IN A SECURED LOCATION.

AVOID THE USE OF FUTURE OPEN SPACES (LOAM AND SEED AREAS) WHEREVER POSSIBLE DURING CONSTRUCTION. CONSTRUCTION TRAFFIC SHALL USE THE ROADBEDS OF FUTURE ACCESS DRIVES AND PARKING AREAS.

ADDITIONAL TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED IN AMOUNTS NECESSARY TO COMPLETE FINISHED GRADING OF ALL EXPOSED AREAS––CONSTRUCT SILT FENCE OR SILTSOXX AROUND TOPSOIL STOCKPILE.

AREAS TO BE FILLED SHALL BE CLEARED, GRUBBED AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS OR OTHER OBJECTIONABLE MATERIAL. STUMPS SHALL BE DISPOSED OF IN AN APPROVED FACILITY.

ALL FILLS SHALL BE PLACED AND COMPACTED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS.

ALL NON–STRUCTURAL, SITE–FILL SHALL BE PLACED AND COMPACTED TO 90% MODIFIED PROCTOR DENSITY IN LAYERS NOT EXCEEDING 18 INCHES IN THICKNESS UNLESS OTHERWISE NOTED.

FROZEN MATERIAL OR SOFT, MUCKY OR HIGHLY COMPRESSIBLE MATERIAL, TRASH, WOODY DEBRIS, LEAVES, BRUSH OR ANY DELETERIOUS MATTER SHALL NOT BE INCORPORATED INTO FILLS.

FILL MATERIAL SHALL NOT BE PLACED ON FROZEN FOUNDATION SUBGRADE.

DURING CONSTRUCTION AND UNTIL ALL DEVELOPED AREAS ARE FULLY STABILIZED, ALL EROSION CONTROL MEASURES SHALL BE INSPECTED WEEKLY AND AFTER EACH ONE HALF INCH OF RAINFALL.

THE CONTRACTOR SHALL MODIFY OR ADD EROSION CONTROL MEASURES AS NECESSARY TO ACCOMMODATE PROJECT CONSTRUCTION.

ALL ROADWAYS AND PARKING AREAS SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE. ALL CUT AND FILL SLOPES SHALL BE SEEDED/LOAMED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.

AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:
- BASE COURSE GRAVELS HAVE BEEN INSTALLED ON AREAS TO BE PAVED
- A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED
- A MINIMUM OF 3 INCHES OF NON–EROSIVE MATERIAL SUCH AS STONE OR RIPRAP HAS BEEN INSTALLED
- EROSION CONTROL BLANKETS HAVE BEEN INSTALLED

VEGETATIVE PRACTICE

FOR PERMANENT MEASURES AND PLANTINGS:

LIMESTONE SHALL BE THOROUGHLY INCORPORATED INTO THE LOAM LAYER AT A RATE OF 2 TONS PER ACRE.

FERTILIZER SHALL BE SPREAD ON THE TOP LAYER OF LOAM AND WORKED INTO THE SURFACE. FERTILIZER APPLICATION RATE SHALL BE 500 POUNDS PER ACRE OF 10–20–20 FERTILIZER.

SEED SHALL BE SOWN AT THE RATES SHOWN IN THE TABLE BELOW. IMMEDIATELY BEFORE SEEDING, THE SOIL SHALL BE LIGHTLY RAKED. ONE HALF THE SEED SHALL BE SOWN IN ONE DIRECTION AND THE OTHER HALF AT RIGHT ANGLES TO THE ORIGINAL DIRECTION. IT SHALL BE LIGHTLY RAKED INTO
THE SOIL TO A DEPTH NOT OVER 1/4 INCH AND ROLLED WITH A HAND ROLLER WEIGHING NOT OVER 100 POUNDS PER LINEAR FOOT OF WIDTH. HAY MULCH SHALL BE APPLIED IMMEDIATELY AFTER SEEDING AT A RATE OF 1.5 TO 2 TONS PER ACRE, AND SHALL BE HELD IN PLACE USING APPROPRIATE TECHNIQUES FROM THE EROSION AND SEDIMENT CONTROL HANDBOOK.

THE SURFACE SHALL BE WATERED AND KEPT MOIST WITH A FINE SPRAY AS REQUIRED, WITHOUT WASHING AWAY THE SOIL, UNTIL THE GRASS IS WELL ESTABLISHED. ANY AREAS WHICH ARE NOT SATISFACTORILY COVERED SHALL BE RESEEDED, AND ALL NOXIOUS WEEDS REMOVED.

A GRASS SEED MIXTURE CONTAINING THE FOLLOWING SEED REQUIREMENTS SHALL BE:

GENERAL COVER	PROPORTION	SEEDING RATE
CREEPING RED FESCUE	50%	100 LBS/ACRE
KENTUCKY BLUEGRASS	50%	
SLOPE SEED (USED ON ALL SLOPES GREATER THAN OR EQUAL TO 3:1)		
CREEPING RED FESCUE	42%	
TALL FESCUE	42%	48 LBS/ACRE
BIRDSFOOT TREFOIL	16%	

IN NO CASE SHALL THE WEED CONTENT EXCEED ONE PERCENT BY WEIGHT. ALL SEED SHALL COMPLY WITH APPLICABLE STATE AND FEDERAL SEED LAWS.

FOR TEMPORARY PROTECTION OF DISTURBED AREAS:
MULCHING AND SEEDING SHALL BE APPLIED AT THE FOLLOWING RATES:
PERENNIAL RYE: 0.7 LBS/1,000 S.F.
MULCH: 1.5 TONS/ACRE

MAINTENANCE AND PROTECTION

THE CONTRACTOR SHALL MAINTAIN ALL LOAM & SEED AREAS UNTIL FINAL ACCEPTANCE AT THE COMPLETION OF THE CONTRACT. MAINTENANCE SHALL INCLUDE WATERING, WEEDING, REMOVAL OF STONES AND OTHER FOREIGN OBJECTS OVER 1/2 INCHES IN DIAMETER WHICH MAY APPEAR AND THE FIRST TWO (2) CUTTINGS OF GRASS NO CLOSER THEN TEN (10) DAYS APART. THE FIRST CUTTING SHALL BE ACCOMPLISHED WHEN THE GRASS IS FROM 2 1/2 TO 3 INCHES HIGH. ALL BARE AND DEAD SPOTS WHICH BECOME APPARENT SHALL BE PROPERLY PREPARED, LIMED AND FERTILIZED, AND RESEEDED BY THE CONTRACTOR AT HIS EXPENSE AS MANY TIMES AS NECESSARY TO SECURE GOOD GROWTH. THE ENTIRE AREA SHALL BE MAINTAINED, WATERED AND CUT UNTIL ACCEPTANCE OF THE LAWN BY THE OWNER'S REPRESENTATIVE.

THE CONTRACTOR SHALL TAKE WHATEVER MEASURES ARE NECESSARY TO PROTECT THE GRASS WHILE IT IS DEVELOPING.

TO BE ACCEPTABLE, SEEDED AREAS SHALL CONSIST OF A UNIFORM STAND OF AT LEAST 90 PERCENT ESTABLISHED PERMANENT GRASS SPECIES, WITH UNIFORM COUNT OF AT LEAST 100 PLANTS PER SQUARE FOOT.

SEEDED AREAS WILL BE FERTILIZED AND RESEEDED AS NECESSARY TO INSURE VEGETATIVE ESTABLISHMENT.

THE SWALES WILL BE CHECKED WEEKLY AND REPAIRED WHEN NECESSARY UNTIL ADEQUATE VEGETATION IS ESTABLISHED.

THE SILT FENCE OR SILTSOXX BARRIER SHALL BE CHECKED AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.

SILT FENCING AND SILTSOXX SHALL BE REMOVED ONCE VEGETATION IS ESTABLISHED, AND DISTURBED AREAS RESULTING FROM SILT FENCE AND SILTSOXX REMOVAL SHALL BE PERMANENTLY SEEDED.

WINTER NOTES

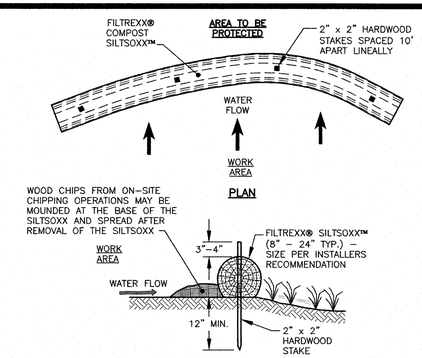
ALL PROPOSED VEGETATED AREAS WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED BY SEEDING AND INSTALLING EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 3:1, AND SEEDING AND PLACING 3 TO 4 TONS OF MULCH PER ACRE, SECURED WITH ANCHORED NETTING, ELSEWHERE. THE INSTALLATION OF EROSION CONTROL BLANKETS OR MULCH AND NETTING SHALL NOT OCCUR OVER ACCUMULATED SNOW OR ON FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SPRING MELT EVENTS.

ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED TEMPORARILY WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS.

AFTER NOVEMBER 15TH, INCOMPLETE ROAD OR PARKING SURFACES, WHERE WORK HAS STOPPED FOR THE **WINTER** SEASON, SHALL BE PROTECTED WITH A MINIMUM OF 3 INCHES OF CRUSHED GRAVEL PER NHDOT ITEM 304.3.

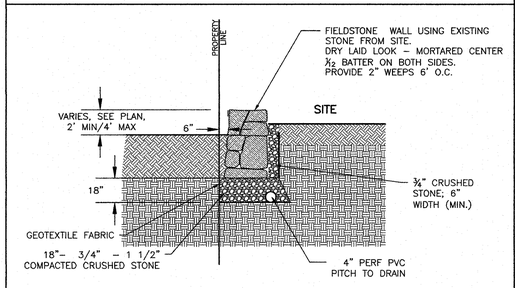
STABILIZED CONSTRUCTION ENTRANCE

USE ENTRANCE IF REQUIRED

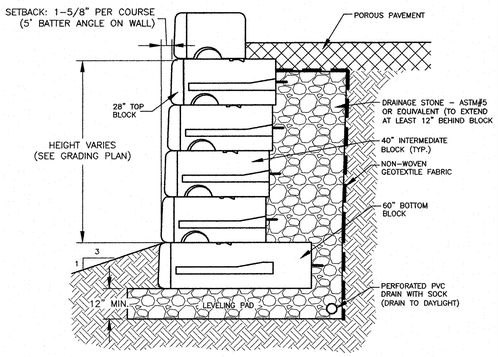


NOTES:
1. ALL MATERIAL TO MEET FILTREXX SPECIFICATIONS.
2. FILLTREXX SYSTEM SHALL BE INSTALLED BY A CERTIFIED FILTREXX INSTALLER.
3. THE CONTRACTOR SHALL MAINTAIN THE COMPOST FILTRATION SYSTEM IN A FUNCTIONAL CONDITION AT ALL TIMES. IT WILL BE ROUTINELY INSPECTED AND REPAIRED WHEN REQUIRED.
4. SILTSOXX DEPICTED IS FOR MINIMUM SLOPES, GREATER SLOPES MAY REQUIRE ADDITIONAL PLACEMENTS.
5. THE COMPOST FILTER MATERIAL WILL BE DISPERSED ON SITE WHEN NO LONGER REQUIRED, AS DETERMINED BY THE ENGINEER.

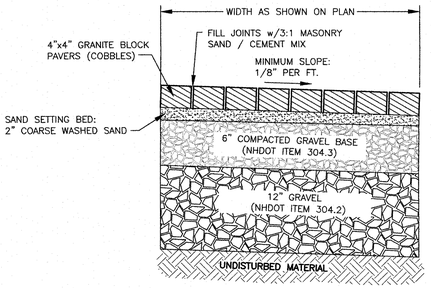
A / C2 FILTREXX® SILTSOXX™ FILTRATION SYSTEM — NTS



B / C2 FIELDSTONE WALL AT PROPERTY LINE — NTS



C / C2 BLOCK GRAVITY WALL DETAIL AT DRIVEWAY — NTS

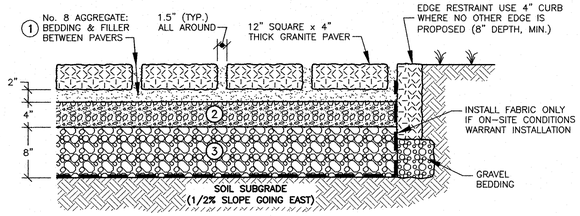


D / C2 COBBLE STONE DETAIL — NTS

ASTM D 448 GRADATION TABLE

①		②		③	
ASTM No. 8 BEDDING & JOINT FILLER		ASTM No. 57 STONE OPEN GRADED BASE		ASTM No. 2 STONE SUBBASE	
SIEVE SIZE	PASSING BY WEIGHT (%)	SIEVE SIZE	PASSING BY WEIGHT (%)	SIEVE SIZE	PASSING BY WEIGHT (%)
1/2" (12.5mm)	100	1.5" (37.5mm)	100	3" (75mm)	100
3/8" (9.5mm)	85–100	1" (25mm)	95–100	2.5" (63mm)	90–100
No. 4 (4.75mm)	10–30	1/2" (12.5mm)	25–60	2" (50mm)	35–70
No. 8 (2.36mm)	0–10	No. 4 (4.75mm)	0–10	1.5" 37.5mm)	0–15
No. 16 (1.16mm)	0–5	No. 8 (2.36mm)	0–5	3/4" (19mm)	0–5

NOTES:
1) PAVING SYSTEM BASE DESIGN IS SIMILAR TO BASE REQUIRED FOR THE UNI ECO–STONE PAVER. INSTALLATION SHALL FOLLOW MANUFACTURER'S INSTRUCTIONS FOR PLACEMENT OF BASE MATERIALS.
2) ALL STONE SHALL BE ANGULAR, WITH 90% FRACTURED FACES. STONE SHALL BE WASHED WITH LESS THAN 1% PASSING THE 200 SIEVE.
3) CONTRACTOR SHALL SUBMIT SIEVE ANALYSIS FOR EACH COURSE MATERIAL TO PROJECT ENGINEER FOR APPROVAL PRIOR TO PLACEMENT.



E / C2 POROUS PAVEMENT SECTION — NTS
12" SQUARE GRANITE PAVERS (OR APPROVED EQUAL)

AMBIT ENGINEERING, INC.
Civil Engineers & Land Surveyors
200 Griffin Road – Unit 3
Portsmouth, N.H. 03801–7114
Tel (603) 430–9282
Fax (603) 436–2315

NOTES:

1) UNDERGROUND UTILITY LOCATIONS ARE BASED UPON BEST AVAILABLE EVIDENCE AND ARE NOT FIELD VERIFIED. LOCATING AND PROTECTING ANY ABOVEGROUND OR UNDERGROUND UTILITIES IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND/OR THE OWNER. UTILITY CONFLICTS SHOULD BE REPORTED AT ONCE TO THE DESIGN ENGINEER.

2) THE CONTRACTOR SHALL NOTIFY DIG SAFE AT 1–888–DIG–SAFE (1–888–344–7233) AT LEAST 72 HOURS PRIOR TO COMMENCING ANY EXCAVATION ON PUBLIC OR PRIVATE PROPERTY.

3) CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH THE "NEW HAMPSHIRE STORMWATER MANUAL, VOLUME 3, EROSION AND SEDIMENT CONTROLS DURING CONSTRUCTION. (NHDES DECEMBER 2008).

HEIDERSCHEIDT RESIDENCE
32 CEDAR POINT ROAD
DURHAM, N.H.

NO.	DESCRIPTION	DATE
0	ISSUED FOR COMMENT	1/5/18

REVISIONS

JOHN R. CHANNON No. 9851 LICENSED PROFESSIONAL ENGINEER – STATE OF NEW HAMPSHIRE

SCALE: AS SHOWN — JANUARY 2017

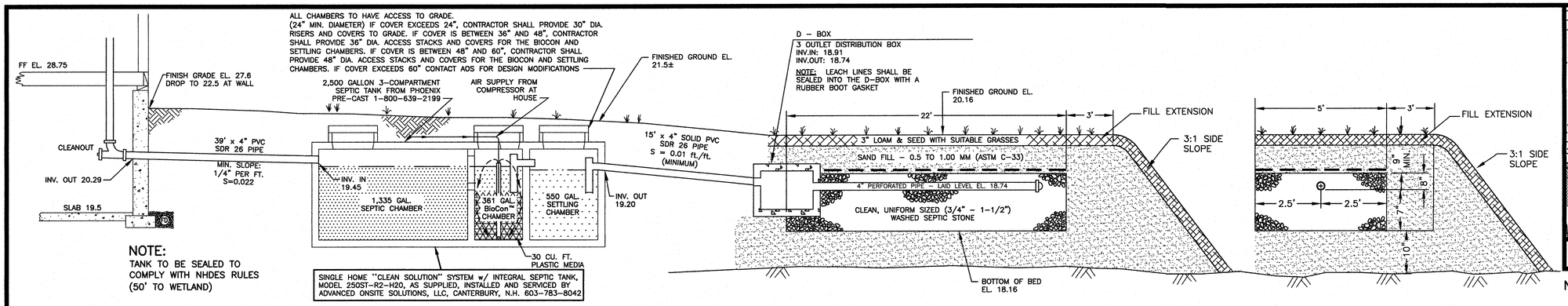
NHDES WETLAND PERMIT DETAILS

D1

FB 231 PG 68

2801

J:\JOB52_JN2800's\JN 2800's\JN 2801\2017 Site Re-development\Plans & Specs\Site\2801_DETAILS.dwg, D1 DETAILS

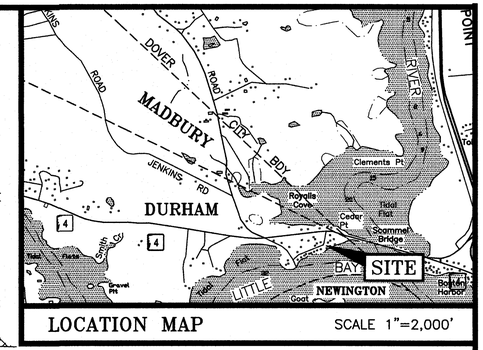


NOTE:
TANK TO BE SEALED TO COMPLY WITH NHDES RULES (50' TO WETLAND)

COLLECTION SYSTEM PROFILE
NTS

LEACH FIELD PROFILE
NTS

LEACH FIELD SECTION
NTS



LOCATION MAP SCALE 1"=2,000'

NOTES:

1) EXISTING FLOW/PROPOSED FLOW: 2 BEDROOMS (MINIMUM ALLOWABLE TO LOT OF RECORD) 2 x 150 = 300 GPD
2) PROPOSED FIELD SIZE: AT 6 MINUTE PERC. CONVENTIONAL EFFLUENT DISPOSAL AREA: 450 S.F. REQUIRED PER WASTEWATER ALTERNATIVES MANUAL - 100 S.F. 100 S.F. PROVIDED
3) THIS PLAN IS PREPARED FOR SEPTIC SYSTEM DESIGN ONLY, IT IS NOT A BOUNDARY SURVEY.
4) FOUNDATION DRAINS: NONE EXISTING, SEE PROPOSED LOCATION.
5) FLOOD HAZARD: LOT HAS A PORTION OF THE PARCEL IN A SPECIAL FLOOD HAZARD AREA AS SHOWN ON FIRM PANEL 33017C0340E. EFFECTIVE DATE SEPTEMBER 30, 2015. NO PORTION OF THE PROPOSED SEPTIC TANK OR LEACH FIELD IS IN THE FLOOD HAZARD ZONE.
6) ANY CHANGES TO THE SPECIFICATIONS SHOWN HEREON SHALL BE SUBMITTED TO THE DESIGNER, IN WRITING, FOR APPROVAL PRIOR TO ANY CONSTRUCTION ON SAID CHANGES.
7) IN THE EVENT OF SYSTEM FAILURE: REBUILD IN PLACE.
8) WATER SUPPLY: PROPOSED WELL ON LOT
NOTE: EXISTING WELL IS IN BASEMENT.
9) FOR SUCCESSFUL OPERATION OF DISPOSAL SYSTEM, MAINTENANCE IS REQUIRED:
   - HAVE TANK PUMPED AS REQUIRED (3 YEAR MAXIMUM).
   - DO NOT DISPOSE BULKY WASTES, TOXIC MATERIALS, OR OIL INTO SYSTEM.
   - DO NOT DISPOSE GREASE INTO THE SYSTEM. CLEAN SEPTIC TANK FILTER WHEN PUMPING TANK.
   - DO NOT ALLOW VEHICLES OR LIVESTOCK ONTO SYSTEM UNLESS SPECIFICALLY DESIGNED FOR SUCH LOADS.
   - DO NOT USE COLORED TOILET PAPER.
   - CONSULT THE SYSTEM DESIGNER PRIOR TO PLACING ANY ADDITIONAL LOADING ON THE SYSTEM, SUCH AS: KITCHEN GARBAGE GRINDERS, HOT TUBS, OR WHIRLPOOLS.
10) THIS SEPTIC SYSTEM SHALL BE INSTALLED BY OR UNDER THE SUPERVISION OF A NHDES LICENSED INSTALLER.
11) CONSTRUCTION APPROVAL FOR THIS SYSTEM SHALL EXPIRE 4 YEARS FROM DATE OF ISSUE.
12) INSTALLER IS RESPONSIBLE FOR PLACING THE LEACH FIELD IN LOCATION SHOWN ON THIS PLAN, USING TIES PROVIDED.

SOIL TYPE: HOLLIS-CHARLTON HcB: FINE SANDY LOAM

BENCHMARK: NH DOT 133-0410, ELEV. 3.37
VERTICAL DATUM - MEAN SEA LEVEL - NAVD88

DISTANCE TO NEAREST SURFACE WATER: 38 FEET TO SURFACE WATER/JURISDICTIONAL WETLAND

DIRECTIONS TO SITE

FROM PORTSMOUTH TRAFFIC CIRCLE HEAD SOUTHEAST TOWARD US-1 BYPASS NORTH, EXIT ONTO NH-16 NORTH/US-4 WEST, HEAD TO SPAULDING TURNPIKE/CONCORD/ROCHESTER TAKE EXIT 6W FOR US-W TOWARD DURHAM STAY ON US-4 WEST, JUST AFTER LITTLE BAY BRIDGE, TURN LEFT ONTO CEDAR POINT ROAD TAKE TO THE END. TAKE LEFT ON CEDAR POINT ROAD, LOT IS ON THE RIGHT

LEGEND:

100	EXISTING CONTOUR
100	PROPOSED CONTOUR
TP	TEST PIT
PT	PERC TEST
ST	SEPTIC TANK
FF	FINISH FLOOR
INV.	INVERT
MIN.	MINIMUM
FD	FOUNDATION DRAIN

MINIMUM DISTANCES:
(UNLESS OTHERWISE GOVERNED BY LOCAL CODE)

SURFACE WATER TO:
TANK 75' - FIELD 75'
PRIVATE WELL TO:
TANK 75' - FIELD 75'
PRESSURE WATER LINE TO:
TANK 10' - FIELD 25'
SUCTION WATER LINE TO:
TANK 50' - FIELD 50'
PROPERTY LINE TO:
TANK 10' - FIELD 10'
FOUNDATION DRAIN TO:
TANK 5' - FIELD 15'
DRAIN OUTFALL TO:
FIELD 25'
(SOLID PIPE FOUNDATION TO OUTFALL REQUIRED)

DESIGN INTENT:
THE PURPOSE OF THIS DESIGN IS TO MAINTAIN 2' ABOVE SEASONAL HIGH WATER TABLE & 2-½' ABOVE LEDGE OR ANY IMPERMEABLE SUBSTRATUM BY CONSTRUCTING THE LEACH BED BOTTOM AT ELEVATION 18.16 WHICH IS 10" ABOVE EXISTING GROUND AT THE HIGHEST POINT. (HP 17.33)

TEST PIT #1, ELEV. 16.8±

Date:	12/6/17
Logged by:	STEVE RIKER
Witnessed by:	AUDREY CLINE
ESHWT:	14"
Observed Water:	NONE
Restrictive layer:	14"
REFUSAL:	NONE TO 39"
Percolation rate:	6 min./inch
Roots:	NONE

DEPTH	DESCRIPTION
0" - 6"	2.5Y 4/2 SILTY LOAM
6" - 14"	2.5Y 4/3 SILTY LOAM
14" - 39"	2.5Y 5/2 SILT LOAM, MASSIVE FIRM

TEST PIT #2, ELEV. 17.9±

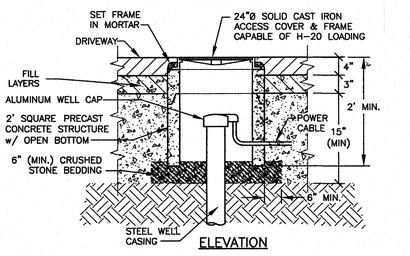
Date:	12/6/17
Logged by:	STEVE RIKER
Witnessed by:	AUDREY CLINE
ESHWT:	18"
Observed Water:	NONE
Restrictive layer:	18"
REFUSAL:	NONE TO 47"
Percolation rate:	6 min./inch
Roots:	NONE

DEPTH	DESCRIPTION
0" - 6"	10YR 4/2 FINE SANDY LOAM, GRANULAR, FRIABLE
6" - 18"	2.5Y 4/3 FINE SANDY LOAM, GRANULAR, FRIABLE
18" - 47"	2.5Y 5/2 SILT LOAM, MASSIVE FIRM

NHDES WAIVER REQUESTS:
1) ENV 1008-2: MINIMUM DISTANCES 1014.04(2) AND (3): RECEIVING AREA 38' TO SURFACE WATER/JURISDICTION WETLAND WHERE 75' IS REQUIRED.

NOTES:
1) THIS PLAN IS FOR A "CLEAN SOLUTION" ALTERNATIVE SEPTIC SYSTEM BY ADVANCED ONSITE SOLUTIONS, LLC. INSTALLATION AND MAINTENANCE SHALL BE IN ACCORDANCE WITH MANUFACTURES GUIDELINES. CALL 603-783-8042 FOR MORE INFORMATION.
2) 2,500 GALLON 3-COMPARTMENT CONCRETE SEPTIC TANK FROM PHOENIX PRE-CAST, 1-800-639-2199

SPACE RESERVED FOR N.H.D.E.S.



1 WELL BASIN DETAIL
NTS

GRAPHIC SCALE
10 0 20 40 60 80 FEET
5 0 5 10 15 20 25 METERS

FEBRUARY 2007 PLAN 90-58
N
MAGNETIC PER SCRD

WETLANDS WERE DELINEATED ON THE BASIS OF HYDROPHYTIC VEGETATION, HYDRIC SOILS AND WETLAND HYDROLOGY IN ACCORDANCE WITH THE TECHNIQUES OUTLINED IN THE "CORPS OF ENGINEERS WETLAND DELINEATION MANUAL, TECHNICAL REPORT Y-87-1", JANUARY 1987. THE HYDRIC SOIL COMPONENT WAS DETERMINED BY USING THE "FIELD INDICATORS FOR IDENTIFYING HYDRIC SOILS IN NEW ENGLAND, VERSION 2", JULY 1998.

NEW HAMPSHIRE Designer of Subsurface Disposal Systems John R. Chagnon No. 785 Department of Environmental Services

STATE OF NEW HAMPSHIRE STEVEN D. RIKER No. 219 CERTIFIED WETLAND SCIENTIST

MAP 12 LOT 1-8
SUBSURFACE DISPOSAL SYSTEM PLAN
32 CEDAR POINT ROAD, DURHAM

REGISTRY: STRAFFORD
BOOK / PAGE: 4495/149
NHDES SUBDIVISION APPROVAL NO.: N/A
NHDES SYSTEM APPROVAL NO.: PENDING

OWNER: MANISHA P. HEIDERSCHEIDT
2010 REVOCABLE TRUST
21 CAVERNO DRIVE
LEE, NEW HAMPSHIRE 03861

APPLICANT:

AMBIT ENGINEERING, INC.
Civil Engineers & Land Surveyors
200 Griffin Road - Unit 3
Portsmouth, N.H. 03801-7114
Tel (603) 430-9282
Fax (603) 436-2315

REV. 1 1/5/18
SCALE : 1"=20' DATE : DECEMBER 2017
FB 231 PG 68 JOB 2801

J:\JOBS2\JN2800's\JN 2801\2017 Site Re-Development\Plans & Specs\Site\2801 SITE 2017.dwg, AOS