CONSERVATION SUBDIVISION

RAMSDELL WOODS

TAX MAP 233 - LOT 29 & 30
27 RAMSDELL LANE
BARRINGTON, NH 03825

SYMBOLS LEGEND

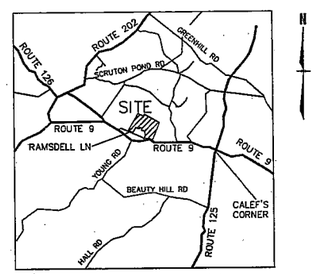
EXISTING SYMBOLS

- TP — SOIL BORING – TEST PIT
- OHE — UTILITY POLE AND OVERHEAD LINES
- 128 — GRADE CONTOUR – 2 FT INTERVAL
- 130 — GRADE CONTOUR – 10 FT INTERVAL
- 127.73 — SPOT GRADE
- TREES AND TREELINE
- SIGN
- GRANITE OR CONCRETE BOUND
- IRON PIN OR PIPE
- REBAR
- DRILL HOLE IN STONE WALL
- BENCHMARK
- EDGE OF WETLANDS
- 559B — WETLAND CLASSIFICATION CODE
- EASEMENT
- GUARD RAIL
- FLARED END SECTION
- CULVERT & HEADWALL

PROPOSED SYMBOLS

- UG — PROPOSED UNDERGROUND UTILITY
- PROPOSED DRAIN MANHOLE
- PROPOSED CATCH BASIN
- PROPOSED FLARED END SECTION
- PROPOSED CULVERT & HEADWALL
- PROPOSED RIP RAP STONE
- DIRECTION OF DRAINAGE FLOW
- F348.5 — FINISH GRADE SPOT ELEVATION
- PROPOSED TREELINE–LIMIT OF CLEARING
- PROPOSED TEMPORARY SILT FENCE
- PROPOSED BUILDING SETBACK LINE
- F378 — PROPOSED GRADE CONTOUR
- R1-1 — PROPOSED SIGN
- W — PROPOSED WELL
- PROPOSED REBAR
- GRANITE OR CONCRETE BOUND
- IRON PIN OR PIPE
- REBAR

VICINITY PLAN



VICINITY PLAN

LIST OF DRAWINGS

SHEET NO.	DESCRIPTION
1 OF 20	COVER SHEET
2 OF 20	OVERALL EXISTING CONDITIONS PLAN
3 OF 20	OVERALL PROPOSED CONDITIONS PLAN
4 OF 20	PROPOSED CONDITIONS PLAN (1"=50')
5 OF 20	OVERALL BOUNDARY PLAN
6 OF 20	BOUNDARY PLAN (1"=60')
7 OF 20	BOUNDARY PLAN (1"=60')
8 OF 20	EASEMENT PLAN
9 OF 20	DRAINAGE PROFILE
10 OF 20	DRAINAGE PROFILE
11 OF 20	PLAN AND PROFILE
12 OF 20	CROSS SECTIONS
13 OF 20	CROSS SECTIONS
14 OF 20	CROSS SECTIONS
15 OF 20	SIGHT DISTANCE PLAN
16 OF 20	GENERAL DEATAILS
17 OF 20	GENERAL DETAILS
18 OF 20	EROSION CONTROL DETAILS
19 OF 20	CISTERN DETAIL SHEET
20 OF 20	TEST PIT LOGS

LAND USE OFFICE
DEC 11 2013
RECEIVED

PROFESSIONAL CONSULTANTS LIST

ENGINEER: BROWN ENGINEERING & SURVEYING, LLC
KENT L. BROWN, P.E.
683C FIRST NH TURNPIKE
NORTHWOOD, NH 03261

SURVEYOR: BROWN ENGINEERING & SURVEYING, LLC
SCOTT R. FRANKIEWICZ, LLS
683C FIRST NH TURNPIKE
NORTHWOOD, NH 03261

SOIL SCIENTIST: WEST ENVIRONMENTAL, INC.
MARK WEST, CWS
48 STEVENS HILL ROAD
NOTTINGHAM, NH 03290

NEW HAMPSHIRE Designer of Subsurface Disposal Systems — Scott R. Frankiewicz — No. 1348 — Department of Environmental Services

STATE OF NEW HAMPSHIRE — LICENSED LAND SURVEYOR — No. 3348 — SCOTT R. FRANKIEWICZ — SIGNATURE

INITIAL PLAN SET SUBMISSION DATE
DECEMBER 11, 2013

Latest revision date: _____

NO.	DATE	DESCRIPTION	BY

OWNER:
GEORGE AND GARY RAMSDELL
27 RAMSDELL LANE
BARRINGTON, NH 03825

APPLICANT:
TUCK REALTY, INC
24 RAEDER DRIVE
STRATHAM, NH 03885

AGENCY APPROVALS
NHDES WETLAND : _____
NHDES SUBDIVISION : _____

DIG SAFE — ME NH VT — CALL 1-888-DIG-SAFE (1-888-344-7233) — UTILITIES UNDERGROUND PLANT DAMAGE PREVENTION SYSTEM

CONTACT DIG SAFE 72 HOURS PRIOR TO CONSTRUCTION

THE LOCATION OF ANY UTILITY INFORMATION SHOWN ON THIS PLAN IS APPROXIMATE. BROWN ENGINEERING, LLC MAKES NO CLAIM TO THE ACCURACY OR COMPLETENESS OF UTILITIES SHOWN. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ANY UTILITIES WHETHER THEY BE ABOVE OR BELOW GROUND. PRIOR TO ANY EXCAVATION ON SITE THE CONTRACTOR SHALL CONTACT DIG SAFE AT 1-800-DIG-SAFE (1-800-344-7233).

NOTE:
ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL CONFORM TO THE TOWN OF BOSCAWEN REGULATIONS AND THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", LATEST EDITION.

PREPARED BY
BROWN ENGINEERING/SURVEYING
civil engineers, surveyors construction managers
683C FIRST NH TURNPIKE NORTHWOOD, NEW HAMPSHIRE 03261
Tel: (603) 677-7004 Fax: (603) 677-7014

WETLAND NOTES

1) MARK WEST, CERTIFIED WETLAND SCIENTIST, OF WEST ENVIRONMENTAL OF LEE, NH, PERFORMED THE WETLAND MAPPING DURING JULY 2013 ACCORDING TO THE TECHNICAL CRITERIA OF THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL (TECHNICAL REPORT Y-87-1, JANUARY 1987) AND THE REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: NORTHCENTRAL AND NORTHEAST REGION, VERSION 2.0, JANUARY 2012, US ARMY CORPS OF ENGINEERS.

2) HYDROPHYTIC VEGETATION WAS IDENTIFIED USING THE NATIONAL LIST OF PLANT SPECIES THAT OCCUR IN WETLANDS: NEW HAMPSHIRE, PUBLISHED BY THE UNITED STATES FISH AND WILDLIFE SERVICE, MAY 1998.

SOILS

CsD – CHARLTON, VERY STONY, FINE SANDY LOAM, 15 TO 25 PERCENT SLOPES, HYDROLOGICAL SOIL GROUP B

CvD – CHARLTON, EXTREMELY STONY FINE SANDY LOAM, 8 TO 25 PERCENT SLOPES, HYDROLOGIC SOIL GROUP B

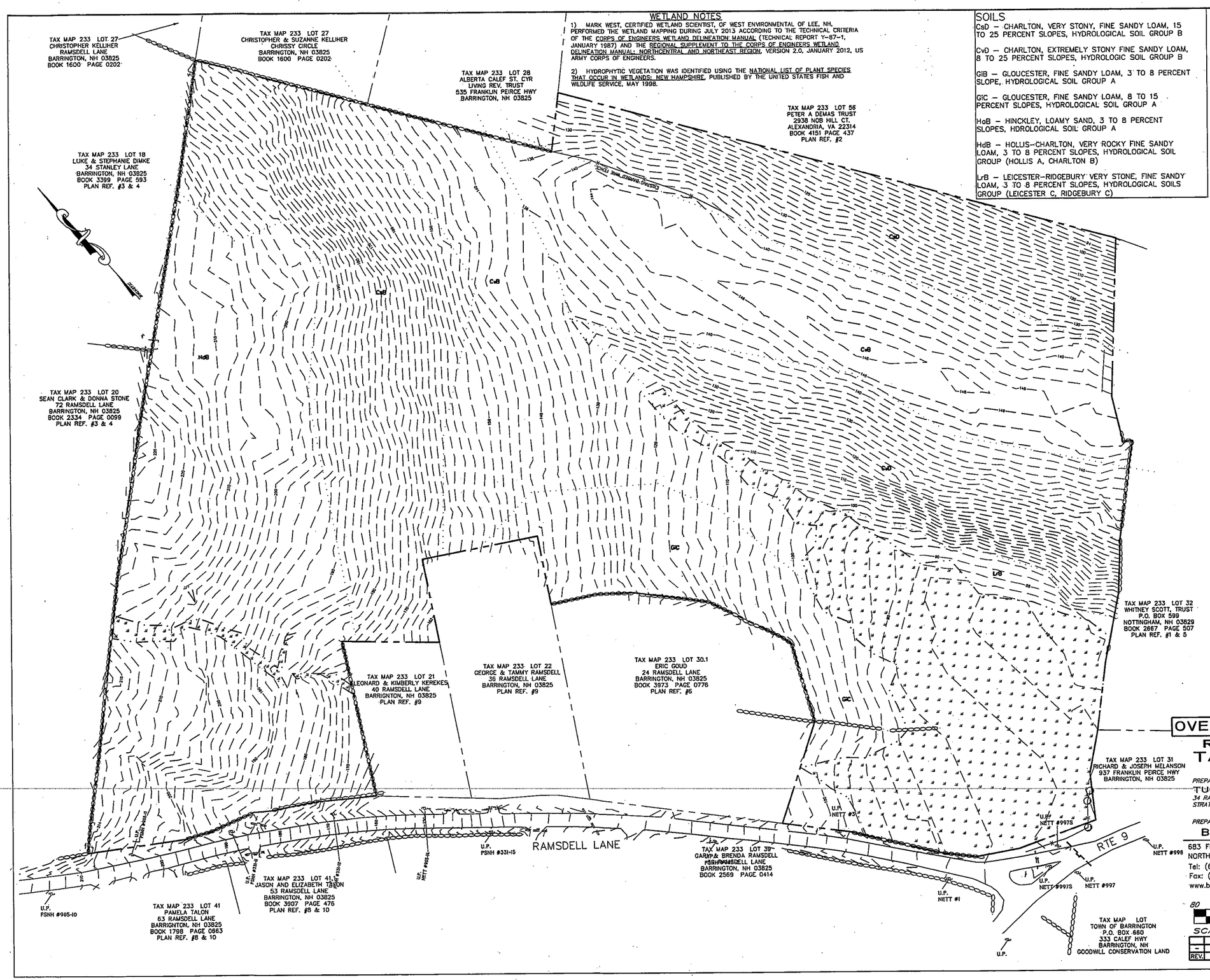
GlB – GLOUCESTER, FINE SANDY LOAM, 3 TO 8 PERCENT SLOPE, HYDROLOGICAL SOIL GROUP A

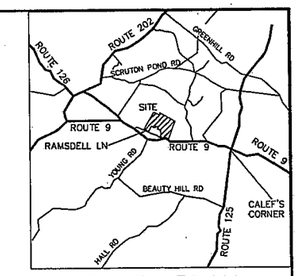
GlC – GLOUCESTER, FINE SANDY LOAM, 8 TO 15 PERCENT SLOPES, HYDROLOGICAL SOIL GROUP A

HoB – HINCKLEY, LOAMY SAND, 3 TO 8 PERCENT SLOPES, HDROLOGICAL SOIL GROUP A

HdB – HOLLIS–CHARLTON, VERY ROCKY FINE SANDY LOAM, 3 TO 8 PERCENT SLOPES, HYDROLOGICAL SOIL GROUP (HOLLIS A, CHARLTON B)

LrB – LEICESTER–RIDGEBURY VERY STONE, FINE SANDY LOAM, 3 TO 8 PERCENT SLOPES, HYDROLOGICAL SOILS GROUP (LEICESTER C, RIDGEBURY C)





VICINITY PLAN

NOTES:

1. PLAN INTENT: TO CONSOLIDATE AND SUBDIVIDE TAX MAP 233 LOTS 29 & 30 INTO 14 LOTS WITH ROADWAY. SUBDIVISION IS INTENDED TO BE A CONSERVATION SUBDIVISION WITH A LARGE PORTION OF THE PROPERTY PLACED IN OPEN SPACE.
2. OWNER OF RECORD:
   GARY & GEORGE RAMSDELL
   27 RAMSDELL LANE
   BARRINGTON, NH 03825
3. TOTAL PARCEL AREA: 37+/– ACRES
4. ZONING DISTRICT: NEIGHBORHOOD RESIDENTIAL – NR
   HIGH COMMERCIAL DISTRICT OVERLAY (HCO)

   CONSERVATION SUBDIVISION REQUIREMENTS:

MINIMUM OVERALL LOT SIZE –	30 ACRES
FRONT SETBACK –	20'
SIDE SETBACK –	20'
REAR SETBACK –	20'
LOT WIDTH AT FRONT SETBACK –	75'
WETLAND SETBACK –	50' (HYDRIC B)
WETLAND SETBACK –	100' (HYDRIC A)

5. THE SUBJECT PARCEL IS LOCATED IN THE FLOOD ZONE " ", (AREAS DETERMINED TO BE OUTSIDE OF 500 YEAR FLOOD ZONE), AS SHOWN ON COMMUNITY PANEL NUMBER DATED:
6. STATE SUBDIVISION APPROVAL # PENDING DATED
7. VERTICAL ELEVATION ARE BEASED ON AN ASSUMED DATUM.
8. ACCORDING TO TOWN MAPS THERE ARE NO PRIME WETLANDS LOCATED ON THIS PROPERTY.
9. JURISDICTIONAL WETLANDS WERE DELINEATED BY MARK WEST OF WEST ENVIRONMENTAL, INC DURING 7–2013.

LAND USE OFFICE
DEC 11 2013
RECEIVED

LEGEND

- GRADE CONTOUR – 2 FT INTERVAL
- GRADE CONTOUR – 10 FT INTERVAL
- EDGE OF WETLANDS
- STONEWALL
- SCS SOILS

OVERALL EXISTING CONDITIONS PLAN

RAMSDELL WOODS SUBDIVISION
TAX MAP 233 LOT 29 & 30

RAMSDELL LANE, BARRINGTON, NEW HAMPSHIRE

PREPARED FOR:
TUCK REALTY CORP.
34 RAEDER DRIVE
STRATHAM, NH 03885

OWNER OF RECORD:
GARY & GEORGE RAMSDELL
27 RAMSDELL LANE
BARRINGTON, NH 03825

PREPARED BY:
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Fax: (603) 677-7014
www.brownengineeringllc.com

civil engineers, surveyors
construction managers

Graphic Scale
80 40 0 80

DECEMBER 11, 2013

SCALE: 1" = 80'

REV.	DATE	DESCRIPTION	BY
–	–	–	–

JOB NO:4714-03
SHEET 2 OF 20

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1) MARK WEST, CERTIFIED WETLAND SCIENTIST, OF WEST ENVIRONMENTAL OF LEE, NH, PERFORMED THE WETLAND MAPPING DURING JULY 2013 ACCORDING TO THE TECHNICAL CRITERIA OF THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL (TECHNICAL REPORT Y-87-1, JANUARY 1987) AND THE REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: NORTHCENTRAL AND NORTHEAST REGION, VERSION 2.0, JANUARY 2012, US ARMY CORPS OF ENGINEERS.

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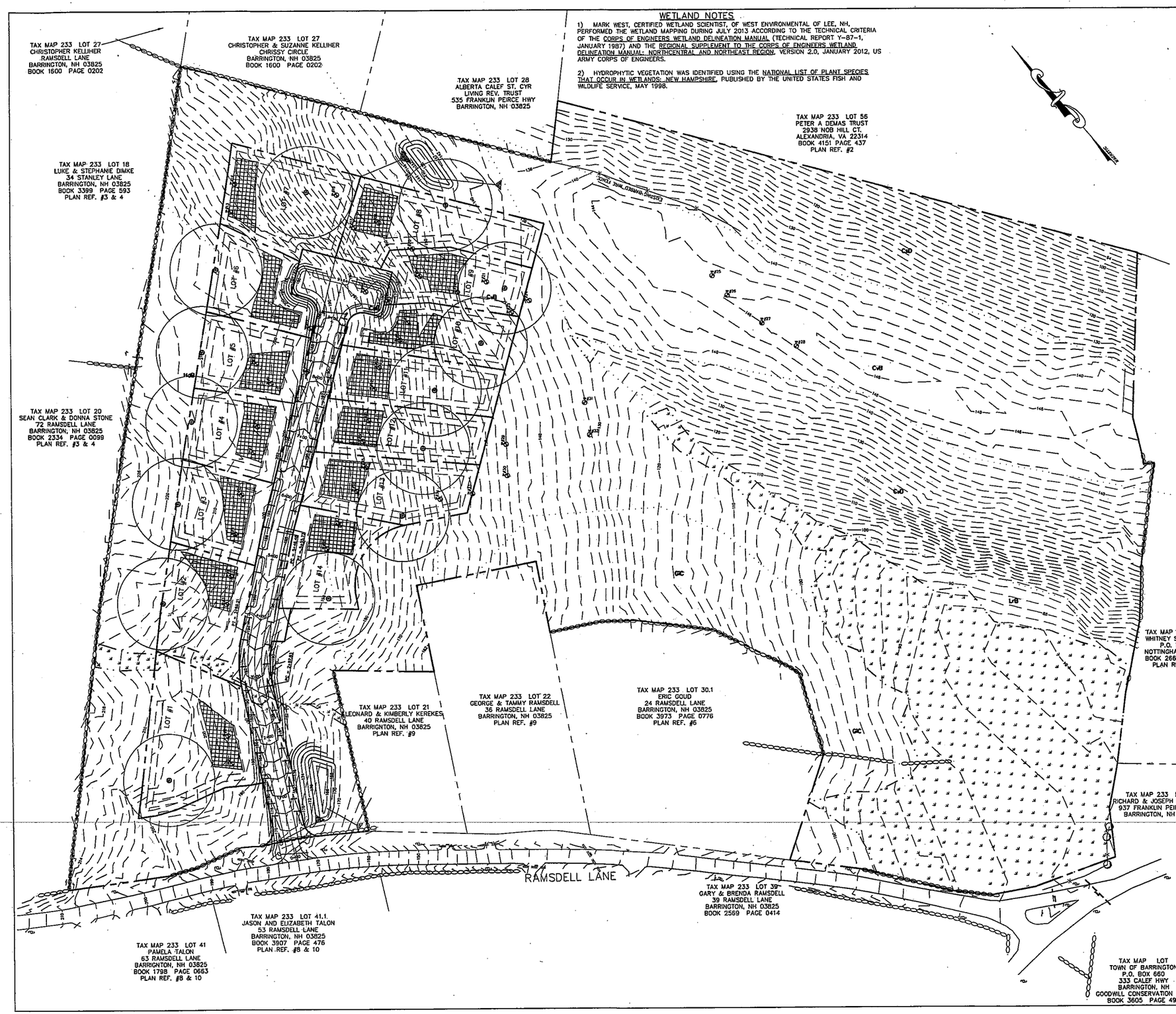

ZONING DISTRICT: NEIGHBORHOOD RESIDENTIAL – NR
HIGH COMMERCIAL DISTRICT OVERLAY (HCO)

CONSERVATION SUBDIVISION REQUIREMENTS:

MINIMUM OVERALL LOT SIZE –	30 ACRES
FRONT SETBACK –	20'
SIDE SETBACK –	20'
REAR SETBACK –	20'
LOT WIDTH AT FRONT SETBACK –	75'
WETLAND SETBACK –	50' (HYDRIC B)
WETLAND SETBACK –	100' (HYDRIC A)

CONSERVATION LOT SIZE REQUIREMENTS:

MINIMUM LOT SIZE –	20,000 SQ. FT.

OPEN SPACE REQUIREMENT:

OPEN SPACE –	60% OF OVERALL PARCEL
MUST BE CONTIGUOUS –	75% OF OPEN SPACE

OPEN SPACE PROVIDED –	28.48 ACRES
WETLANDS IN OPEN SPACE –	4.63 ACRES
SLOPES 25%+ IN OPEN SPACE –	2.38 ACRES
TOTAL USEABLE LAND IN OPEN SPACE –	21.47 ACRES (75.4%)

50% OF OPEN SPACE SHOULD BE FREE OF WETLANDS, OPEN WATER, EXPOSED LEDGE, OR OTHER TERRIAN CONDITIONS THAT WOULD NORMALLY BE CONSIDERED OTHERWISE UNDEVELOPABLE

DENSITY CALCULATION:
DEDUCT FROM OVERALL LOT AREA
100% OF ALL SURFACE WATER
75% OF ALL HYDRIC "A" SOILS
50% OF ALL HYDRIC "B" SOILS
25% OF SLOPES BETWEEN 15% – 25%
100% OF SLOPES GREATER THAN 25%
100% OF ALL EXISTING AND PROPOSED STREET RIGHTS OF WAY
= NET DEVELOPABLE AREA

NET DEVELOPABLE AREA / 60,000 SQ. FT. = NUMBER OF LOTS

OVERALL LOT AREA = 37.47 ACRES OR		1,632,193 SQ. FT.
OPEN WATER = APPROXIMATELY	57,000 SQ. FT.	– 57,000 SQ. FT.
HYDRIC "A" SOILS =	0 SQ. FT.	
HYDRIC "B" SOILS =	148,865 SQ. FT. X 50% =	– 74,432 SQ. FT.
SLOPES 25%+ =	121,014 SQ. FT. X 100% =	– 121,014 SQ. FT.
SLOPES 15%–25% =	427,453 SQ. FT. X 25% =	– 106,863 SQ. FT.

TOTAL AREA OF DEVELOPABLE AREA = 1,272,884 SQ. FT.
DEVELOPABLE AREA / 60,000 SQ. FT. = 21.22 LOTS
ALLOWED LOTS = 21 LOTS

OPEN SPACE OPEN TO PUBLIC DIVIDE DEVELOPABLE AREA/40,000 SQ. FT.
1,240,742 SQ. FT. / 40,000 SQ. FT. = 31.8 LOTS – 31 LOTS ALLOWED

SEE YIELD PLAN – 15 LOTS ALLOWED
15 LOTS * 20% (ALLOWED BONUS) = 18 LOTS
15 LOTS * 30% (ALLOWED BONUS WITH PUBLIC ACCESS TO OPEN SPACE) = 19.5 LOTS = 20 LOTS
PROPOSED 18 LOT CONSERVATION SUBDIVISION

LAND USE OFFICE
DEC 11 2013
RECEIVED

LEGEND

- GRADE CONTOUR – 2 FT INTERVAL
- GRADE CONTOUR – 10 FT INTERVAL
- EDGE OF WETLANDS
- PROPOSED BUILDING SETBACK LINE
- PROPOSED SEPTIC SETBACK LINE
- STONEWALL
- SCS SOILS

OVERALL PROPOSED CONDITIONS
RAMSDELL WOODS SUBDIVISION
TAX MAP 233 LOT 29 & 30
RAMSDELL LANE, BARRINGTON, NEW HAMPSHIRE

PREPARED FOR:
TUCK REALTY CORP.
34 RAEDER DRIVE
STRATHAM, NH 03885

OWNER OF RECORD:
GARY & GEORGE RAMSDELL
27 RAMSDELL LANE
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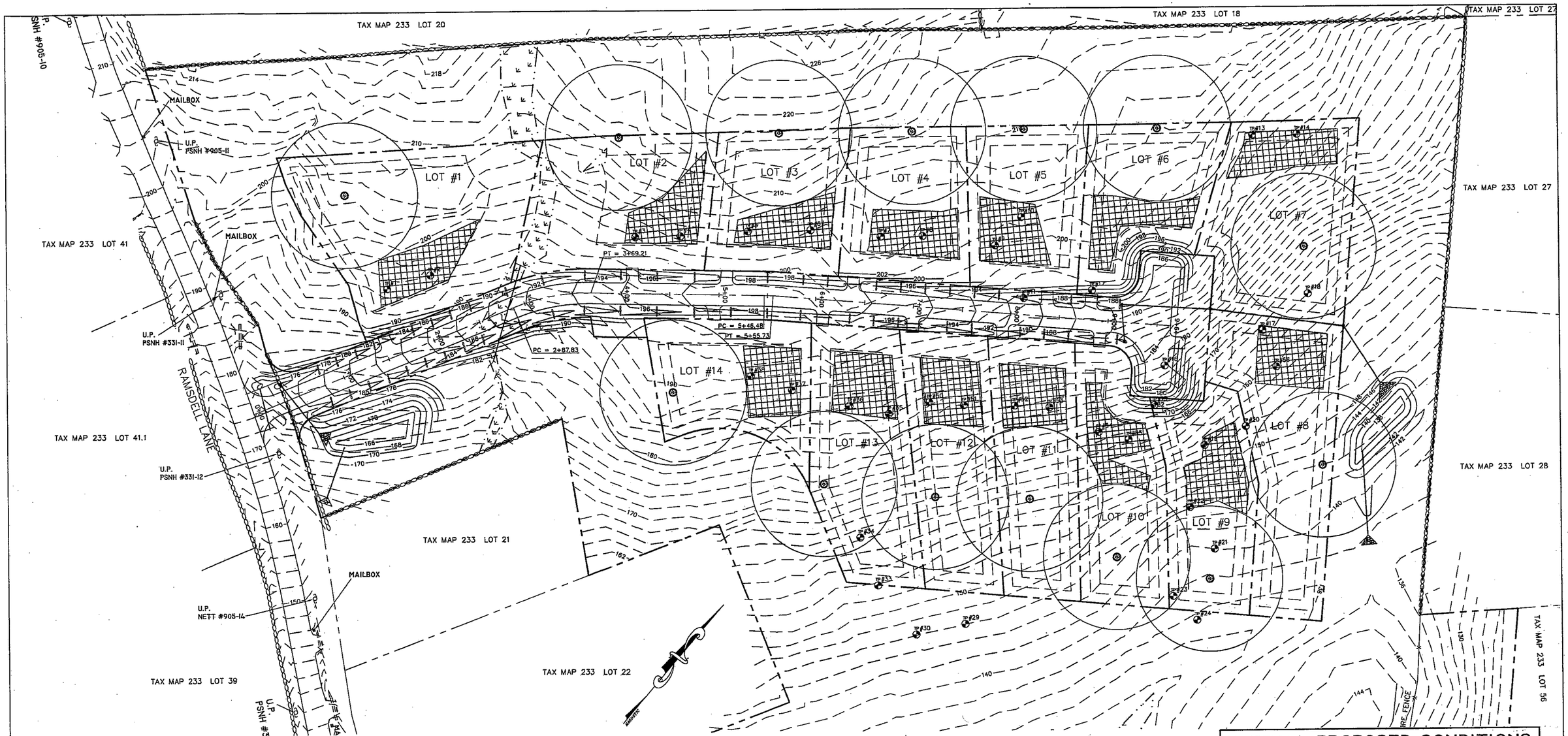
80 40 0 80
DECEMBER 11, 2013
SCALE: 1" = 80'

REV.	DATE	DESCRIPTION	BY

JOB NO:4714-03
SHEET 3 OF 20


TAX MAP 233 LOT 20
TAX MAP 233 LOT 18
TAX MAP 233 LOT 27
TAX MAP 233 LOT 27
TAX MAP 233 LOT 41
TAX MAP 233 LOT 41.1
TAX MAP 233 LOT 28
TAX MAP 233 LOT 21
TAX MAP 233 LOT 22
TAX MAP 233 LOT 39
TAX MAP 233 LOT 56
U.P. PSNH #905-10
MAILBOX
U.P. PSNH #905-11
MAILBOX
U.P. PSNH #331-11
U.P. PSNH #331-12
RAMSDELL LANE
MAILBOX
U.P. NETT #905-14
U.P. PSNH #
LOT #1
LOT #2
LOT #3
LOT #4
LOT #5
LOT #6
LOT #7
LOT #8
LOT #9
LOT #10
LOT #11
LOT #12
LOT #13
LOT #14
PT = 3+69.21
PC = 5+46.48
PT = 5+55.73
PC = 2+87.83
TP#13
TP#14
TP#16
TP#17
TP#18
TP#20
TP#21
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TP#62
TP#63
TP#64
TP#65
TP#66
TP#67
TP#68
TP#69
TP#70
TP#71
TP#72

I CERTIFY THAT THIS PLAT IS BASED UPON THE PLAN REFERENCES AND A FIELD SURVEY CONDUCTED ON THE GROUND IN AUGUST OF 2013, MEETING THE MINIMUM REQUIREMENTS FOR FOR ACCURACY, 1: 10,000 AND COMPLETENESS PER THE STATE OF NEW HAMPSHIRE AND THE TOWN OF BARRINGTON, NH.

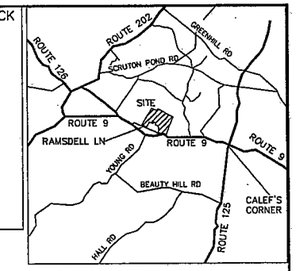
SCOTT R. FRANKIEWICZ, LLS DATE:

STATE OF NEW HAMPSHIRE LICENSED LAND SURVEYOR NO. 995 SCOTT R. FRANKIEWICZ SIGNATURE

PLAN REFERENCES

1. S.C.R.D. PLAN #60-39, "PROPOSED SUBDIVISION, LAND OF PONDVIEW ACRES, INC., LAURETTE FLAHERTY, ROUTE 9, BARRINGTON, NH", PREPARED BY BERRY SURVEYING AND ENGINEERING, INC., DATED JUNE 2, 2000, SCALE 1"=60'
2. S.C.R.D. PLAN #40-84/85, "LOT CONSOLIDATION AND SUBDIVISION PLAN ON LAND OWNED BY DAVID W. EDSALL AND SAMUEL A. CIOFFI AND UNDER CONTRACT TO CHRISTOPHER L. KELLIHER, SUZANNE L. KELLIHER AND PETER DEMASS, BARRINGTON, NH", PREPARED BY FREDERICK E. DREW ASSOCIATES, DATED: FEB. 1992, SCALE 1"=100', 2 SHEETS.
3. S.C.R.D. PLAN #17-109, "SUBDIVISION PLAN LAURETTE GIBB AND FRANK M. DONADIO, BARRINGTON, NH", PREPARED BY FREDERICK E. DREW ASSOCIATES, DATED: NOV. 1976, SCALE 1"=100'.
4. S.C.R.D. PLAN #22-130, "RESUBDIVISION OF LOT 3, THADDEUS BODUCH, BARRINGTON, NH", PREPARED BY FREDERICK E. DREW, DATED: OCTOBER 1983, SCALE: 1"=100'.
5. S.C.R.D. PLAN #88-25, "POND VIEW CONDOMINIUM SITE PLAN & FLOOR PLAN LOCATED AT NH ROUTE 9, TOWN OF BARRINGTON, NEW HAMPSHIRE 03825 FOR BOUNTIFUL RIVER TRUST", PREPARED BY: POHOPEK LAND SURVEYORS & SEPTIC SYSTEM DESIGN, LLC, DATED: JUNE 7, 2006, SCALE 1"=40'.
6. S.C.R.D. PLAN #102-084, SUBDIVISION PLAN OF LAND, PREPARED FOR GARY RAMSDELL AND GEORGE RAMSDELL, TAX MAP 233, LOT NO. 30, 24 RAMSDELL LANE, TOWN OF BARRINGTON, COUNTY OF STRAFFORD, STATE OF NEW HAMPSHIRE", PREPARED BY MCENEANEY SURVEY ASSOCIATES, INC., DATED: 10-2011, SCALE: 1"=40'
7. S.C.R.D. PLAN #91-11, "BOUNDARY PLAT, BARRINGTON, STRAFFORD COUNTY, NEW HAMPSHIRE, PREPARED FOR CAROLYN L. GOODWILL LIVING TRUST OF 1999", PREPARED BY ORVIS/DREW, LLC, DATED: OCTOBER 2006, SCALE: 1"=200'.
8. S.C.R.D. PLAN #98-001, "SUBDIVISION PLAN FOR PAMELA TALON, PROVINCE LANE, BARRINGTON, NH, TAX MAP 233 LOT 41", PREPARED BY BERRY SURVEYING & ENGINEERING, INC., DATED: 1"=40', SCALE: 1"=40'.
9. S.C.R.D. PLAN #53-14,"SUBDIVISION PLAN, MURIEL RAMSDELL, PROVINCE LANE, BARRINGTON, NH", PREPARED BY: RICHARD E. TURNER, LLS, DATED: 6-1998, SCALE: 1"=200'.
10. S.C.R.D. PLAN #44-73, "BOUNDARY LINE DELINEATION, LAND OF GLENN GIBB, PROVINCE LANE, BARRINGTON, NH", PREPARED BY: BERRY SURVEYING & ENGINEERING, INC, DATED: MAY 1994, SCALE: 1"=20'.

PLANNING BOARD APPROVAL BLOCK



VICINITY PLAN

TAX MAP 233 LOT 27
CHRISTOPHER KELLIHER
RAMSDELL LANE
BARRINGTON, NH 03825
BOOK 1600 PAGE 0202

TAX MAP 233 LOT 27
CHRISTOPHER & SUZANNE KELLIHER
CHRISSY CIRCLE
BARRINGTON, NH 03825
BOOK 1600 PAGE 0202

TAX MAP 233 LOT 28
ALBERTA CALEF ST. CYR
LIVING REV. TRUST
535 FRANKLIN PEIRCE HWY
BARRINGTON, NH 03825

TAX MAP 233 LOT 56
PETER A DEMAS TRUST
2938 NOB HILL CT.
ALEXANDRIA, VA 22314
BOOK 4151 PAGE 437
PLAN REF. #2

TAX MAP 233 LOT 18
LUKE & STEPHANIE DIMKE
34 STANLEY LANE
BARRINGTON, NH 03825
BOOK 3399 PAGE 593
PLAN REF. #3 & 4

EXISTING BARBED WIRE FENCE

LOT #7
LOT #8
LOT #6
LOT #9
LOT #10
LOT #5
LOT #11
LOT #4
LOT #12
LOT #13
LOT #3
LOT #14
LOT #2
LOT #1

OPEN SPACE

TAX MAP 233 LOT 20
SEAN CLARK & DONNA STONE
72 RAMSDELL LANE
BARRINGTON, NH 03825
BOOK 2334 PAGE 0099
PLAN REF. #3 & 4

TAX MAP 233 LOT 32
WHITNEY SCOTT, TRUST
P.O. BOX 599
NOTTINGHAM, NH 03829
BOOK 2667 PAGE 507
PLAN REF. #1 & 5

TAX MAP 233 LOT 21
LEONARD & KIMBERLY KEREKES
40 RAMSDELL LANE
BARRINGTON, NH 03825
PLAN REF. #9

TAX MAP 233 LOT 22
GEORGE & TAMMY RAMSDELL
35 RAMSDELL LANE
BARRINGTON, NH 03825
PLAN REF. #9

TAX MAP 233 LOT 30.1
ERIC GOUD
24 RAMSDELL LANE
BARRINGTON, NH 03825
BOOK 3973 PAGE 0776
PLAN REF. #6

TAX MAP 233 LOT 31
RICHARD & JOSEPH MELANSON
937 FRANKLIN PEIRCE HWY
BARRINGTON, NH 03825

RAMSDELL LANE

TAX MAP 233 LOT 39
GARY & BRENDA RAMSDELL
39 RAMSDELL LANE
BARRINGTON, NH 03825
BOOK 2569 PAGE 0414

TAX MAP 233 LOT 41.1
JASON AND ELIZABETH TALON
53 RAMSDELL LANE
BARRINGTON, NH 03825
BOOK 3907 PAGE 476
PLAN REF. #8 & 10

TAX MAP 233 LOT 41
PAMELA TALON
63 RAMSDELL LANE
BARRINGTON, NH 03825
BOOK 1798 PAGE 0663
PLAN REF. #8 & 10

TAX MAP LOT
TOWN OF BARRINGTON
P.O. BOX 660
333 CALEF HWY
BARRINGTON, NH
GOODWILL CONSERVATION LAND
BOOK 3605 PAGE 498
PLAN REF. #7

LEGEND

- EDGE OF WETLANDS
- PROPOSED GRANITE BOUND
- PROPOSED REBAR
- PROPOSED BUILDING SETBACK LINE
- PROPOSED SEPTIC SETBACK LINE
- STONEWALL

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   GARY & GEORGE RAMSDELL
   27 RAMSDELL LANE
   BARRINGTON, NH 03825
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   HIGH COMMERCIAL DISTRICT OVERLAY (HCO)

   CONSERVATION SUBDIVISION REQUIREMENTS:

MINIMUM OVERALL LOT SIZE -	30 ACRES
FRONT SETBACK -	20'
SIDE SETBACK -	20'
REAR SETBACK -	20'
LOT WIDTH AT FRONT SETBACK -	75'
WETLAND SETBACK -	50' (HYDRIC B)
WETLAND SETBACK -	100' (HYDRIC A)

5. THE SUBJECT PARCEL IS LOCATED IN THE FLOOD ZONE " ", (AREAS DETERMINED TO BE OUTSIDE OF 500 YEAR FLOOD ZONE), AS SHOWN ON COMMUNITY PANEL NUMBER DATED:
6. STATE SUBDIVISION APPROVAL # PENDING DATED
7. VERTICAL ELEVATION ARE BEASED ON AN ASSUMED DATUM.
8. ACCORDING TO TOWN MAPS THERE ARE NO PRIME WETLANDS LOCATED ON THIS PROPERTY.
9. JURISDICTIONAL WETLANDS WERE DELINEATED BY MARK WEST OF WEST ENVIRONMENTAL, INC DURING 7-2013.
10. NO DRIVEWAYS ALLOWED OFF THE ENDS OF THE HAMMER HEAD.
11. DRIVEWAY SLOPE NOT TO EXCEED 10%.
12. DRIVEWAY CULVERTS TO A MINIMUM OF 15" DIAMETER AND 30' LONG.
13. ALL UTILITIES SHALL BE INSTALLED UNDERGROUND.
14. SEE SHEET 3 OF 19 FOR CONSERVATION SUBDIVISION CALCULATIONS.
15. ALL ROAD AND DRAINAGE WORK TO CONFORM TO THE STANDARD SPECIFICATIONS FOR CONSTRUCTION IN THE TOWN OF BARRINGTON.
16. MAILBOX CENTRAL LOCATION TO BE DETERMINED BY THE POSTMASTER AT THE TIME OF CONSTRUCTION.
17. IF, DURING CONSTRUCTION, IT BECOMES APPARENT THAT DEFICIENCIES EXIST IN THE APPROVED DESIGN DRAWINGS, THE CONTRATOR SHALL BE REQUIRED TO CORRECT THE DEFICIENCES TO MEET THE REQUIREMENTS OF THE REGULATIONS AT NO EXPENSE TO THE TOWN.
18. REQUIRED EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY DISTURBANCE OF THE SITE'S SURFACE AREA AND SHALL BE MAINTAINED THROUGH THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES. IF, DURING CONSTRUCTION, IT BECOMES APPARENT THAT ADDITIONAL EROSION CONTROL MEASURES ARE REQUIRED TO STOP ANY EROSION ON THE CONSTRUCTION SITE DUE TO ACTUAL SITE CONDITIONS, THE OWNER SHALL BE REQUIRED TO INSTALL THE NECESSARY EROSION PROTECTIONAT NO EXPENSE TO THE TOWN.
19. SHEETS 5-8 OF 19 SHALL BE RECORDED AT THE STRAFFORD COUNTY REGISTRY OF DEEDS.
20. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL CONFORM TO THE TOWN OF BARRINGTON SUBDIVISION REGUALTIONS AND THE LATEST EDITION OF THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

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OVERALL BOUNDARY PLAN

RAMSDELL WOODS SUBDIVISION
TAX MAP 233 LOT 29 & 30

RAMSDELL LANE, BARRINGTON, NEW HAMPSHIRE

PREPARED FOR:
TUCK REALTY CORP.
34 RAEDER DRIVE
STRATHAM, NH 03885

OWNER OF RECORD:
GARY & GEORGE RAMSDELL
27 RAMSDELL LANE
BARRINGTON, NH 03825

PREPARED BY:
BROWN ENGINEERING & SURVEYING LLC
683 FIRST NH TURNPIKE (RTE 4)
NORTHWOOD, NH 03261
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www.brownengineeringllc.com

civil engineers, surveyors
construction managers

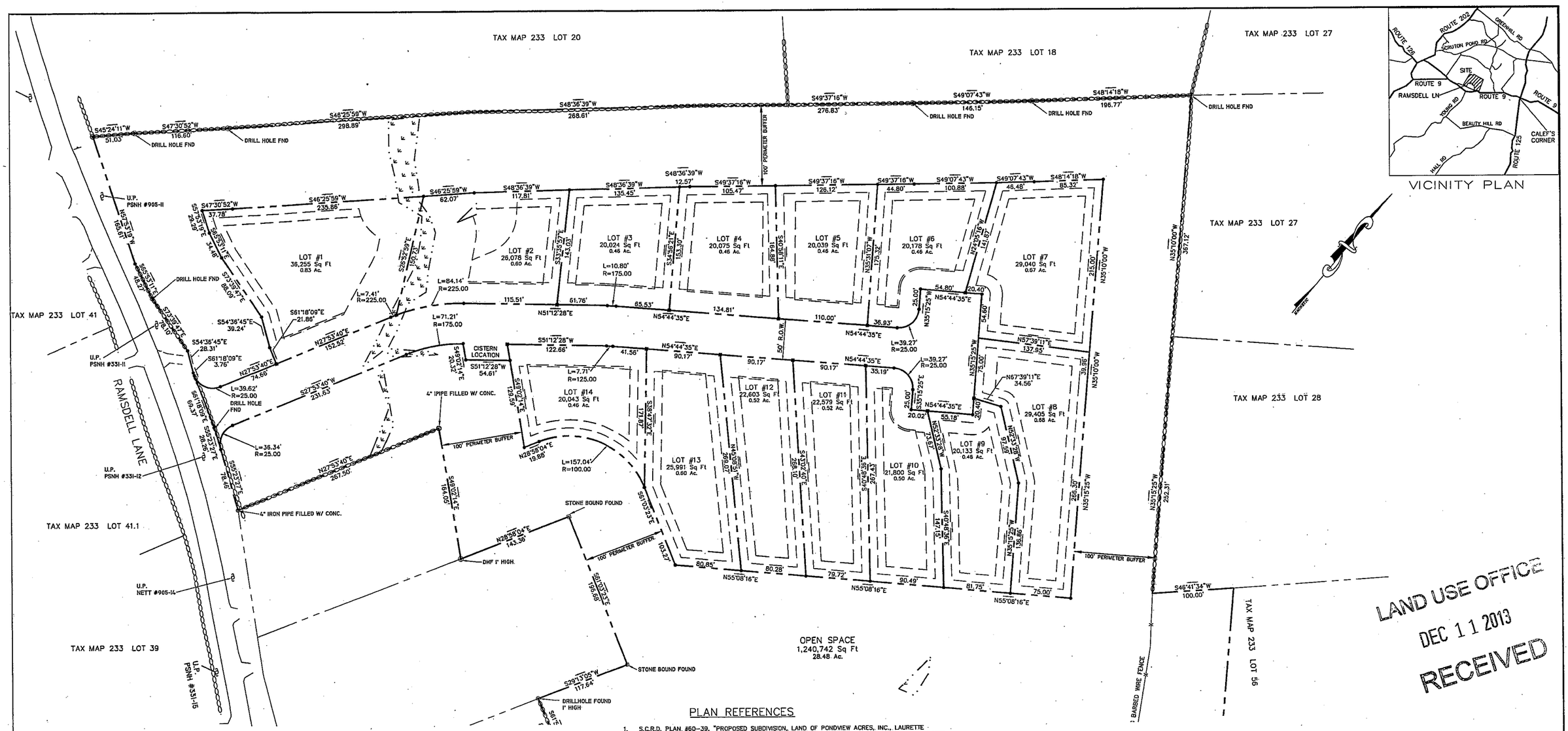
Graphic Scale
80 40 0 80

DECEMBER 11, 2013

SCALE: 1" = 80'

REV.	DATE	DESCRIPTION	BY

JOB NO:4714-03
SHEET 5 OF 20



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3. S.C.R.D. PLAN #17-109, "SUBDIVISION PLAN LAURETTE GIBB AND FRANK M. DONADIO, BARRINGTON, NH", PREPARED BY FREDERICK E. DREW ASSOCIATES, DATED: NOV. 1976, SCALE 1"=100'.

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5. S.C.R.D. PLAN #88-25, "POND VIEW CONDOMINIUM SITE PLAN & FLOOR PLAN LOCATED AT NH ROUTE 9, TOWN OF BARRINGTON, NEW HAMPSHIRE 03825 FOR BOUNTIFUL RIVER TRUST", PREPARED BY: POHOPEK LAND SURVEYORS & SEPTIC SYSTEM DESIGN, LLC, DATED: JUNE 7, 2006, SCALE 1"=40'.

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7. S.C.R.D. PLAN #91-11, "BOUNDARY PLAT, BARRINGTON, STRAFFORD COUNTY, NEW HAMPSHIRE, PREPARED FOR CAROLYN L. GOODWILL LIVING TRUST OF 1999", PREPARED BY ORVIS/DREW, LLC, DATED: OCTOBER 2006, SCALE: 1"=200'.

8. S.C.R.D. PLAN #98-001, "SUBDIVISION PLAN FOR PAMELA TALON, PROVINCE LANE, BARRINGTON, NH, TAX MAP 233 LOT 41", PREPARED BY BERRY SURVEYING & ENGINEERING, INC., DATED: 1"=40', SCALE: 1"=40'.

9. S.C.R.D. PLAN #53-14,"SUBDIVISION PLAN, MURIEL RAMSDELL, PROVINCE LANE, BARRINGTON, NH", PREPARED BY: RICHARD E. TURNER, LLS, DATED: 6-1998, SCALE: 1"=200'.

10. S.C.R.D. PLAN #44-73, "BOUNDARY LINE DELINEATION, LAND OF GLENN GIBB, PROVINCE LANE, BARRINGTON, NH", PREPARED BY: BERRY SURVEYING & ENGINEERING, INC, DATED: MAY 1994, SCALE: 1"=20'.

NOTES

1. SEE SHEET 5 OF 19 FOR ALL NOTES AND PLAN REFERENCES.

WETLAND NOTES

1) MARK WEST, CERTIFIED WETLAND SCIENTIST, OF WEST ENVIRONMENTAL OF LEE, NH, PERFORMED THE WETLAND MAPPING DURING JULY 2013 ACCORDING TO THE TECHNICAL CRITERIA OF THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL (TECHNICAL REPORT Y-87-1, JANUARY 1987) AND THE REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: NORTHCENTRAL AND NORTHEAST REGION, VERSION 2.0, JANUARY 2012, US ARMY CORPS OF ENGINEERS.

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LEGEND

- EDGE OF WETLANDS
- PROPOSED GRANITE BOUND
- PROPOSED REBAR
- PROPOSED BUILDING SETBACK LINE
- PROPOSED SEPTIC SETBACK LINE
- STONEWALL

STATE OF NEW HAMPSHIRE — SCOTT R. FRANKIEWICZ — No. 845 — LICENSED LAND SURVEYOR

I CERTIFY THAT THIS PLAT IS BASED UPON THE PLAN REFERENCES AND A FIELD SURVEY CONDUCTED ON THE GROUND IN AUGUST OF 2013, MEETING THE MINIMUM REQUIREMENTS FOR FOR ACCURACY, 1: 10,000 AND COMPLETENESS PER THE STATE OF NEW HAMPSHIRE, AND THE TOWN OF BARRINGTON, NH.

SCOTT R. FRANKIEWICZ, LLS — DATE: 12-6-13

BOUNDARY PLAN

RAMSDELL WOODS SUBDIVISION.
TAX MAP 233 LOT 29 & 30

RAMSDELL LANE, BARRINGTON, NEW HAMPSHIRE

PREPARED FOR:
TUCK REALTY CORP.
34 RAEDER DRIVE
STRATHAM, NH 03885

OWNER OF RECORD:
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60 30 0 60

DECEMBER 11, 2013

SCALE: 1" = 60'

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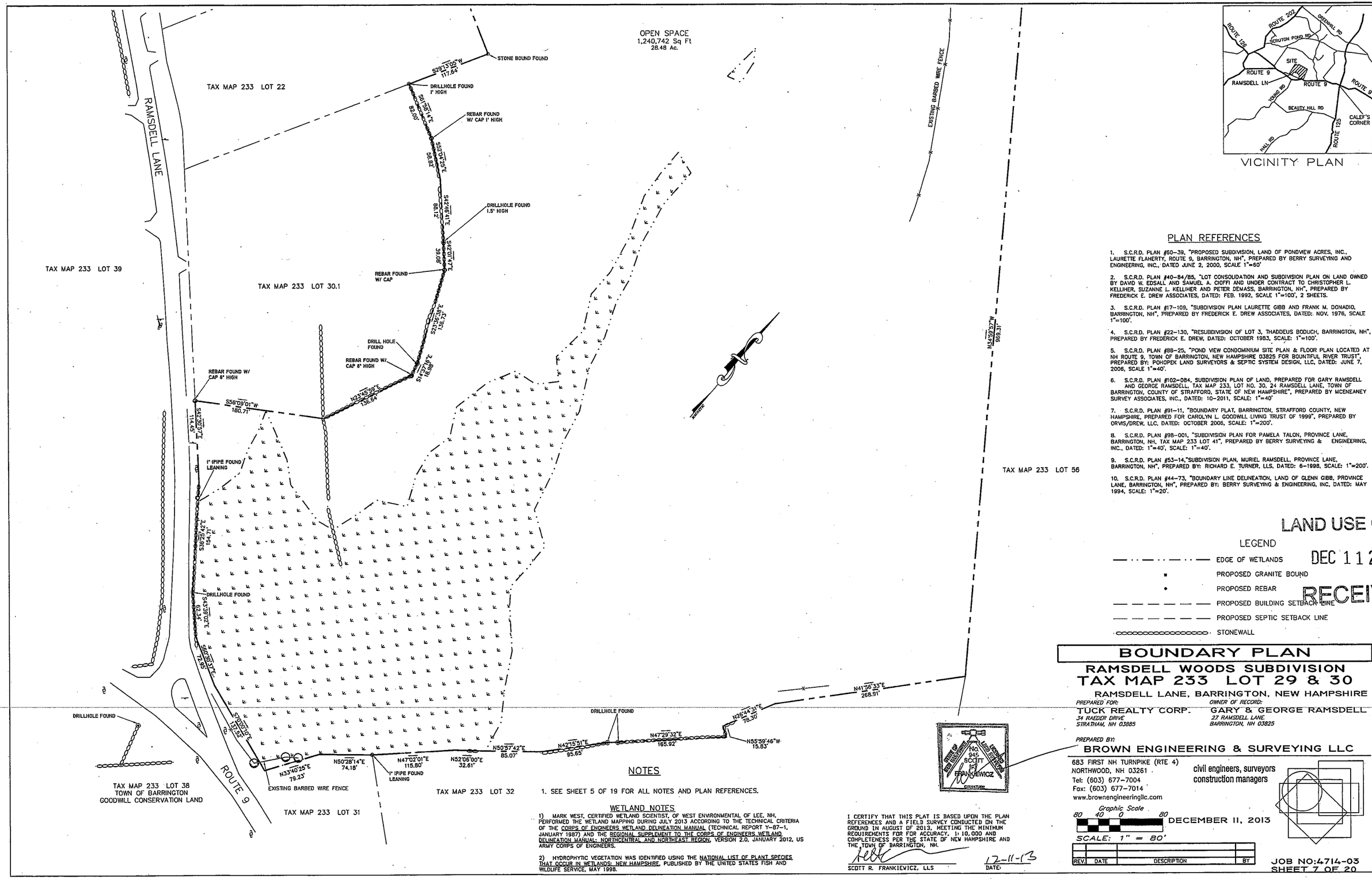

VICINITY PLAN

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DEC 11 2013
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LEGEND

- EDGE OF WETLANDS
- PROPOSED GRANITE BOUND
- PROPOSED REBAR
- PROPOSED BUILDING SETBACK LINE
- PROPOSED SEPTIC SETBACK LINE
- STONEWALL

BOUNDARY PLAN

RAMSDELL WOODS SUBDIVISION
TAX MAP 233 LOT 29 & 30

RAMSDELL LANE, BARRINGTON, NEW HAMPSHIRE

PREPARED FOR:
TUCK REALTY CORP.
34 RAEDER DRIVE
STRATHAM, NH 03885

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Graphic Scale
80 40 0 80

DECEMBER 11, 2013

SCALE: 1" = 80'

REV.	DATE	DESCRIPTION	BY

JOB NO:4714-03
SHEET 7 OF 20

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SCOTT R. FRANKIEWICZ, LLS

12-11-13
DATE

STATE OF NEW HAMPSHIRE
No. 945
SCOTT R. FRANKIEWICZ
LICENSED LAND SURVEYOR
SIGNATURE

TAX MAP 233 LOT 20

TAX MAP 233 LOT 18

TAX MAP 233 LOT 27

TAX MAP 233 LOT 41

TAX MAP 233 LOT 41.1

TAX MAP 233 LOT 21

TAX MAP 233 LOT 22

TAX MAP 233 LOT 28

TAX MAP 233 LOT 56

RAMSDELL LANE

DRILL HOLE FND

U.P. PSNH #905-11

U.P. PSNH #331-11

U.P. PSNH #331-12

U.P. NETT #905-14

U.P. PSNH #331-15

4" IRON PIPE FILLED W/ CONC.

4" IPIPE FILLED W/ CONC.

CISTERN

STONE BOUND FOUND

DHF 1' HIGH

DRILLHOLE FOUND 1' HIGH

WELL RADIUS EASEMENT

20' WIDE DRAINAGE EASEMENT

LOT #1

LOT #2

LOT #3

LOT #4

LOT #5

LOT #6

LOT #7

LOT #8

LOT #9

LOT #10

LOT #11

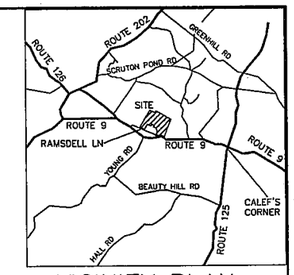
LOT #12

LOT #13

LOT #14

OPEN SPACE

G BARBED WIRE FENCE



VICINITY PLAN

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EASEMENT PLAN

RAMSDELL WOODS SUBDIVISION

TAX MAP 233 LOT 29 & 30

RAMSDELL LANE, BARRINGTON, NEW HAMPSHIRE

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60 30 0 60

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REV.	DATE	DESCRIPTION	BY

JOB NO:4714-03
SHEET 8 OF 20

LEGEND

- EDGE OF WETLANDS
- PROPOSED GRANITE BOUND
- PROPOSED REBAR
- PROPOSED EASEMENT
- PROPOSED BUILDING SETBACK LINE
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- STONEWALL

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STATE OF NEW HAMPSHIRE — LICENSED LAND SURVEYOR — No. 845 — SCOTT R. FRANKIEWICZ — SIGNATURE

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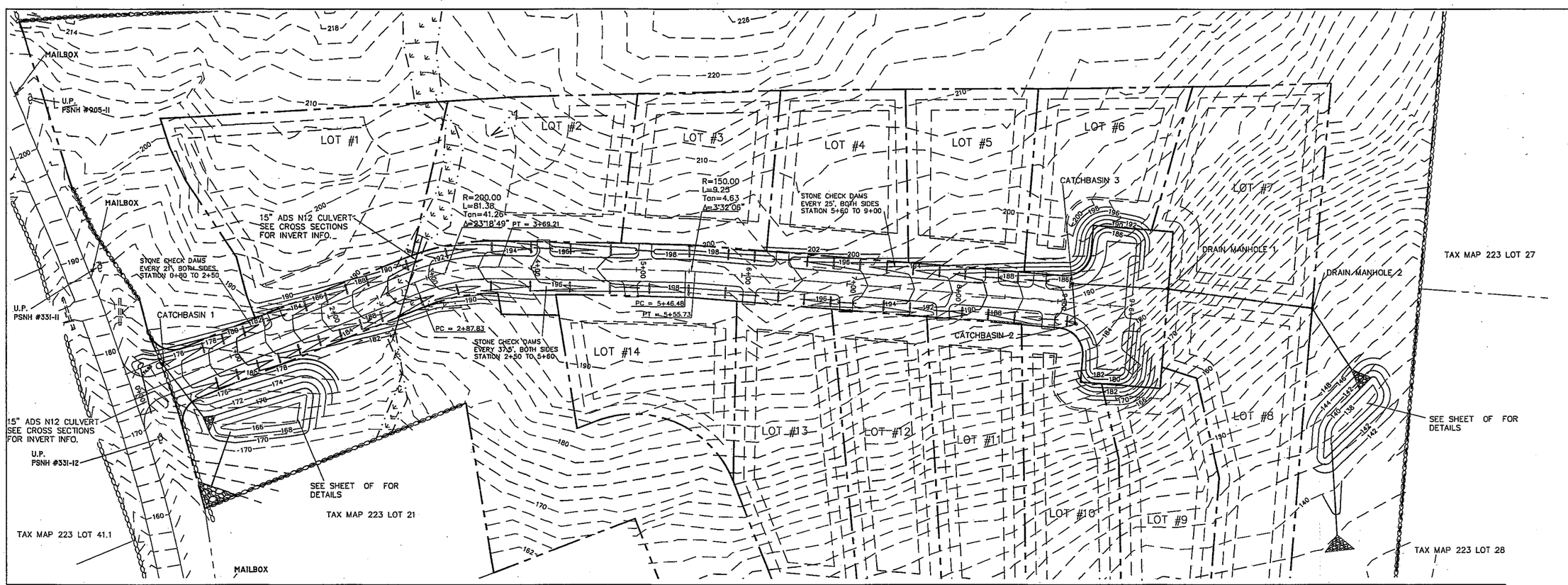

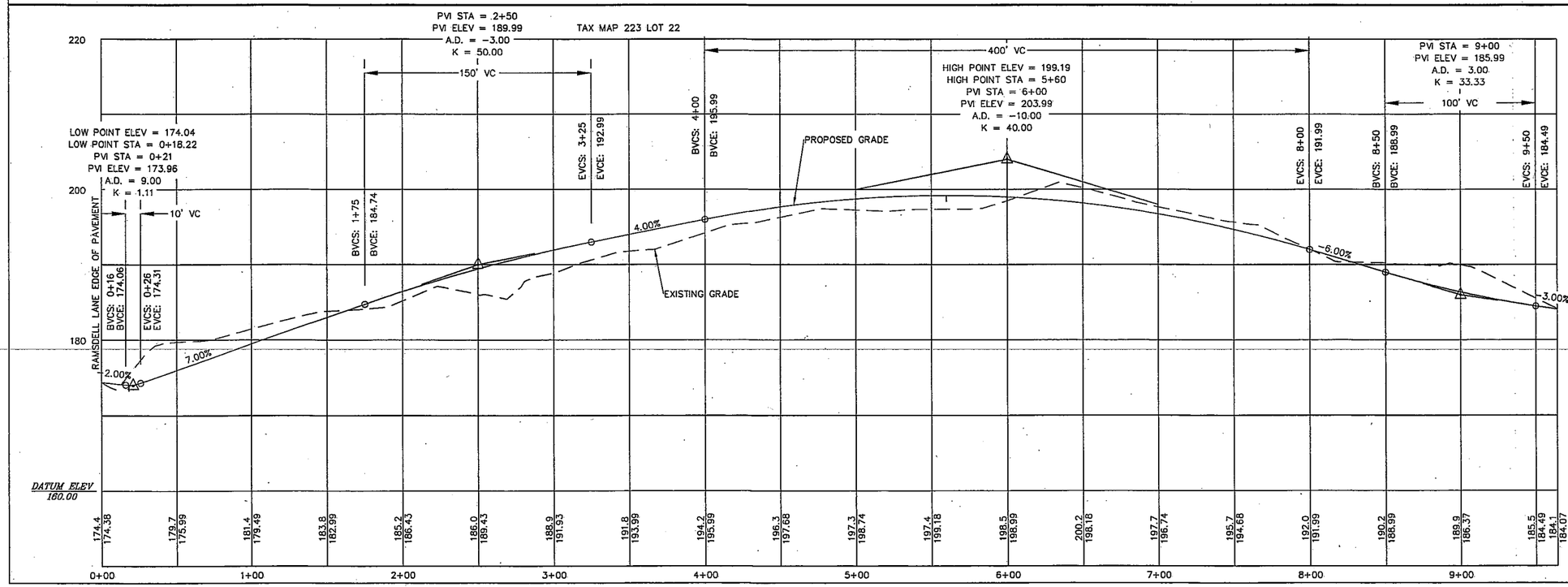

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ENGR STAMP

REVISIONS

NO.	DESCRIPTION	DATE

PLAN & PROFILE
TAX MAP 223 LOT 29 & 30

RAMSDELL WOODS

27 RAMSDELL LANE
BARRINGTON, NH
OWNED BY

GARY & GEORGE RAMSDELL

RAMSDELL LANE, BARRINGTON, NH 03825

DECEMBER 11, 2013

SCALE
20 10 0 40 (H)
5 0 10(V)
H 1"=40' V 1"=10'

BROWN ENGINEERING /SURVEYING
civil engineers, surveyors
construction managers
683C FIRST NH TURNPIKE
NORTHWOOD, NEW HAMPSHIRE 03261
Tel: (603) 677-7004
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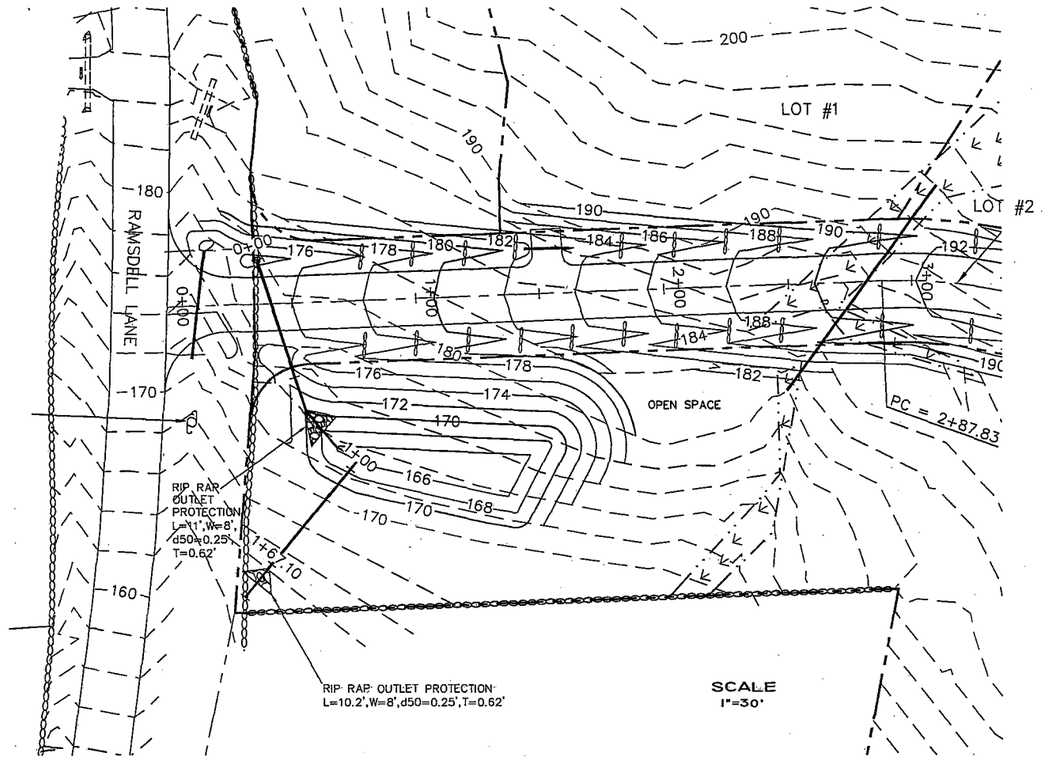

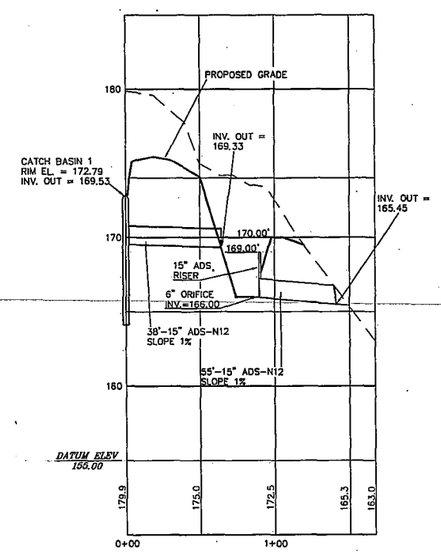

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REVISIONS

NO.	DESCRIPTION	DATE

PLAN & PROFILE – DRAINAGE SYSTEM
TAX MAP 223 LOT 29 & 30
RAMSDELL WOODS
27 RAMSDELL LANE
BARRINGTON, NH
OWNED BY
GARY & GEORGE RAMSDELL
RAMSDELL LANE, BARRINGTON, NH 03825

DECEMBER 11, 2013

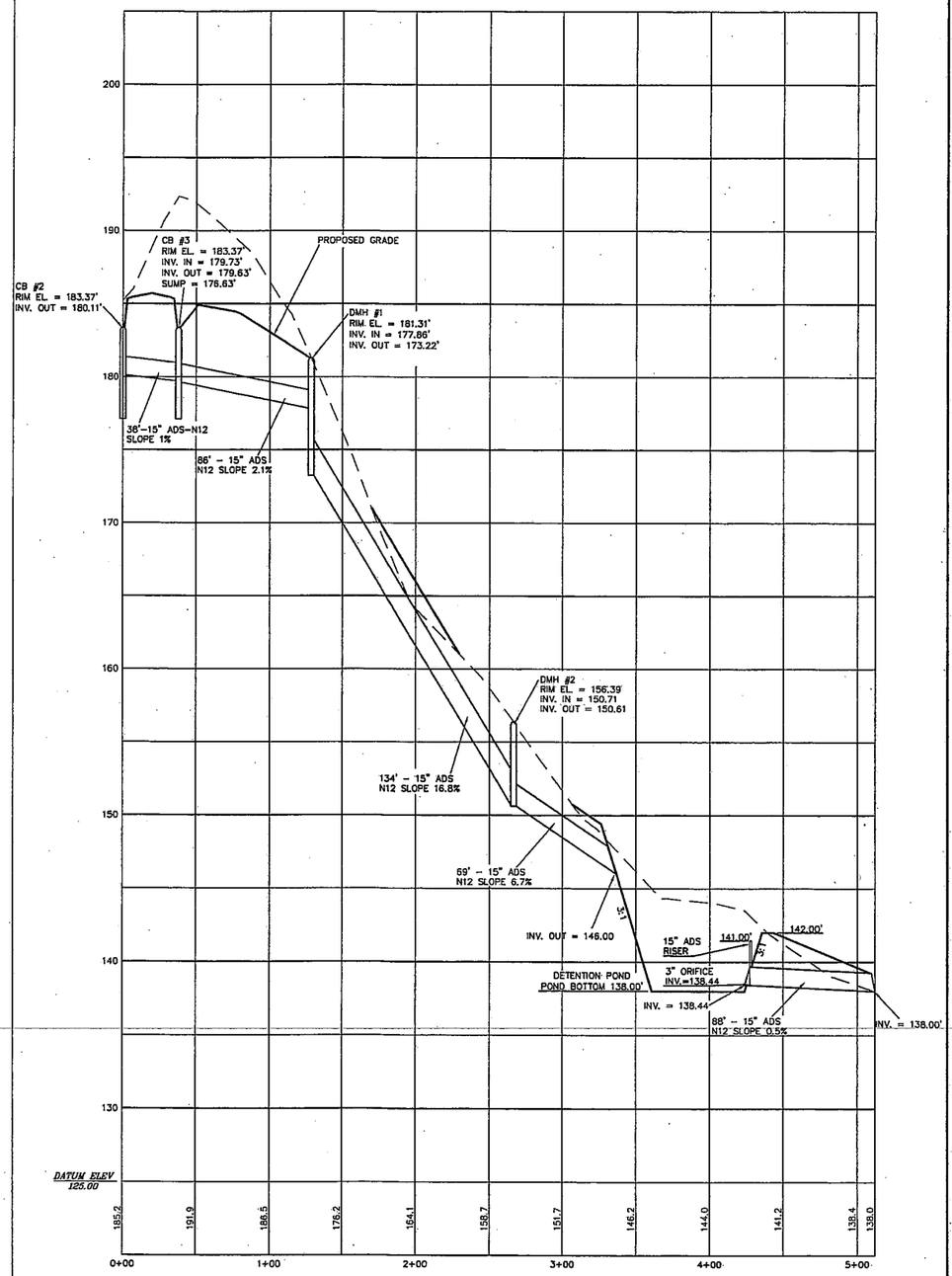
SCALE
AS NOTED

BROWN ENGINEERING /SURVEYING

civil engineers, surveyors
construction managers
683C FIRST NH TURNPIKE
NORTHWOOD, NEW HAMPSHIRE 03261
Tel: (603) 677-7004
Fax: (603) 677-7014

SHEET 10 OF 20

SCALE
H 1"=50' V 1"=5'



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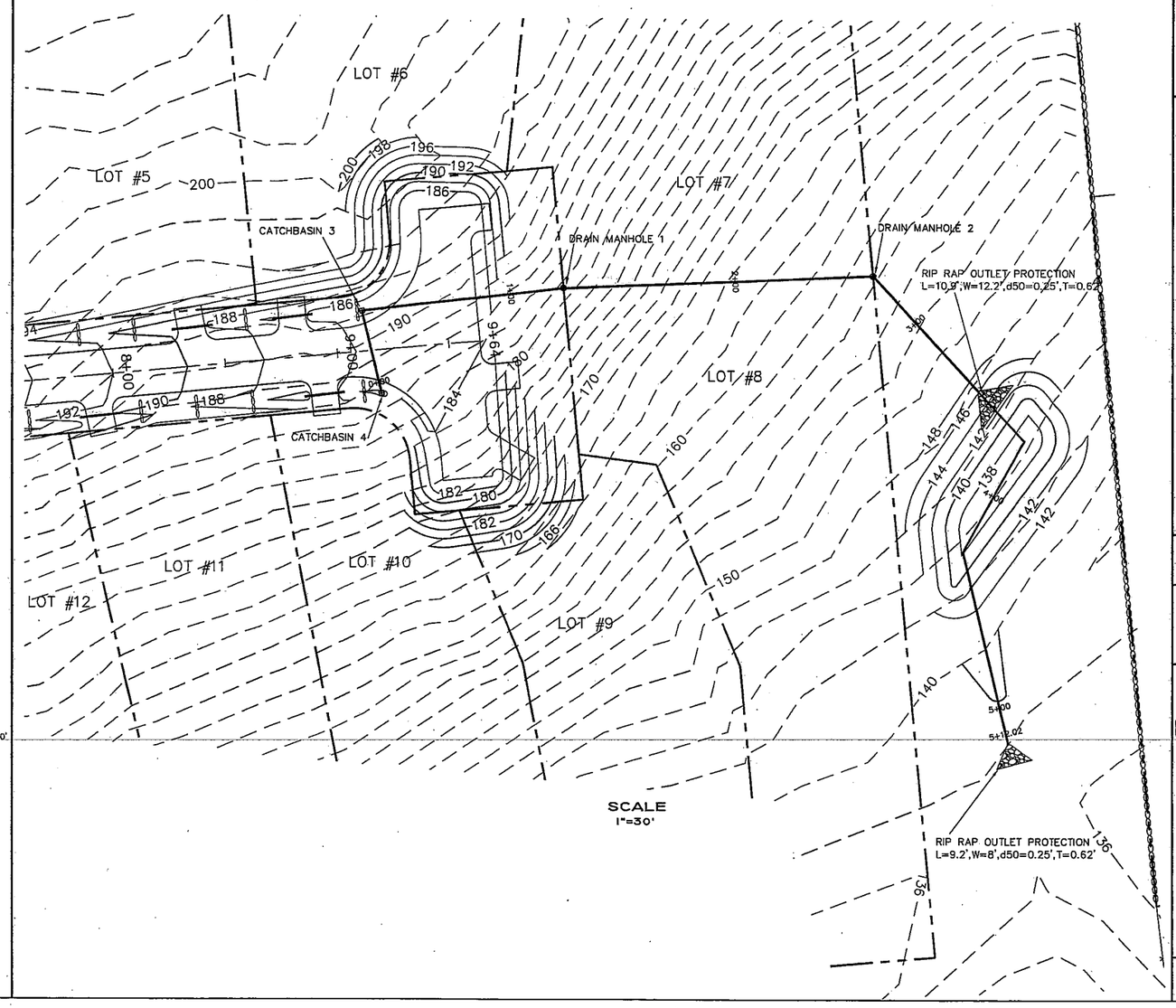

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REVISIONS		
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RAMSDELL WOODS
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BARRINGTON, NH
OWNED BY
GARY & GEORGE RAMSDELL
RAMSDELL LANE, BARRINGTON, NH 03825

DECEMBER 11, 2013

SCALE
AS NOTED

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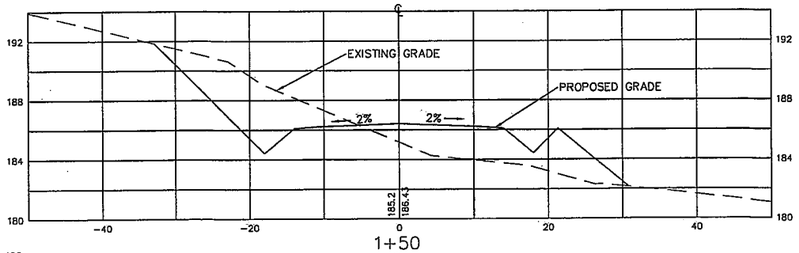
SHEET 11 OF 20

2+00



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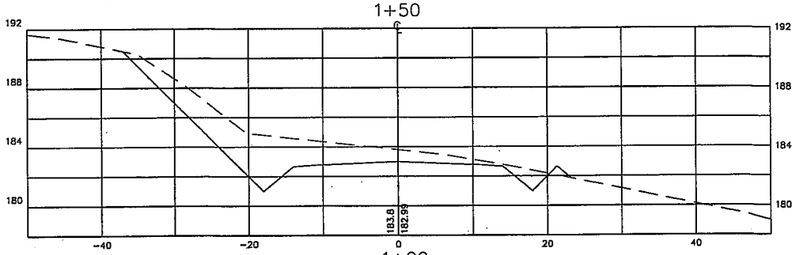

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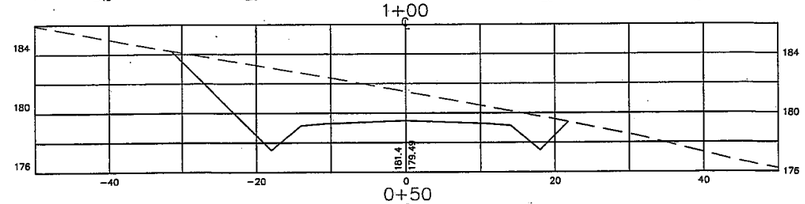

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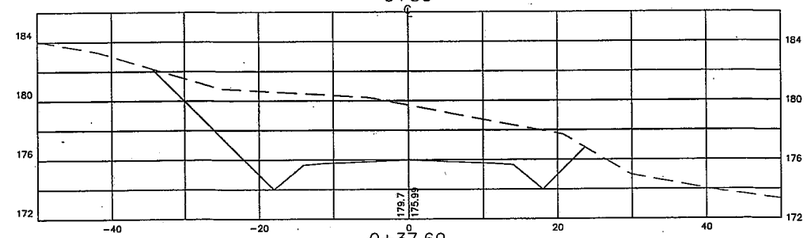

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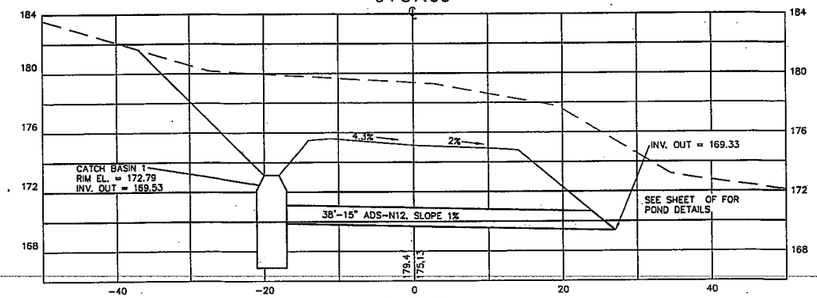

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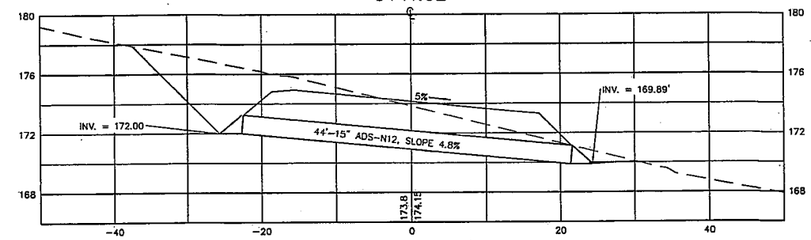

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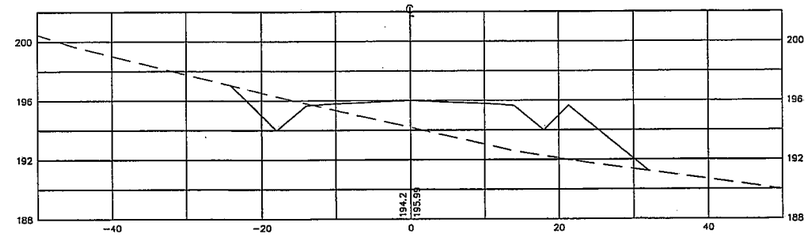

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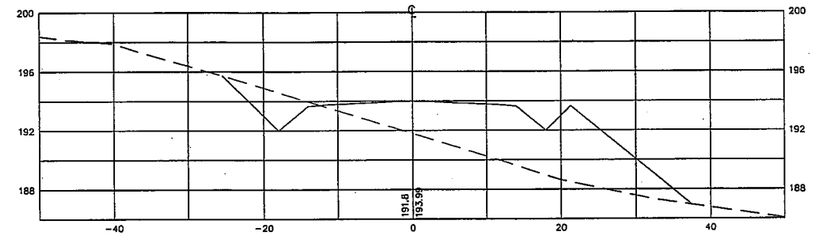

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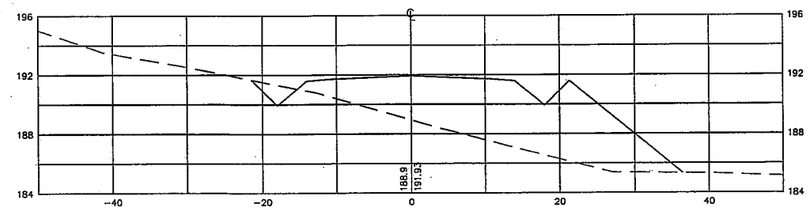

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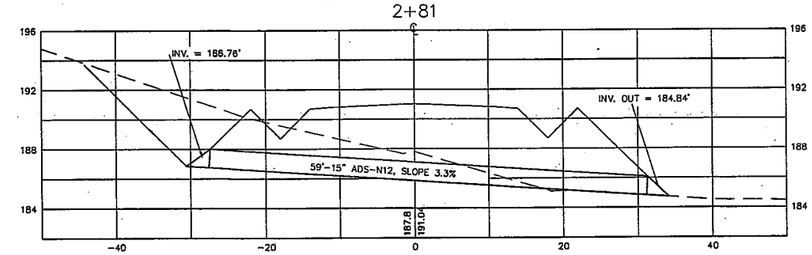

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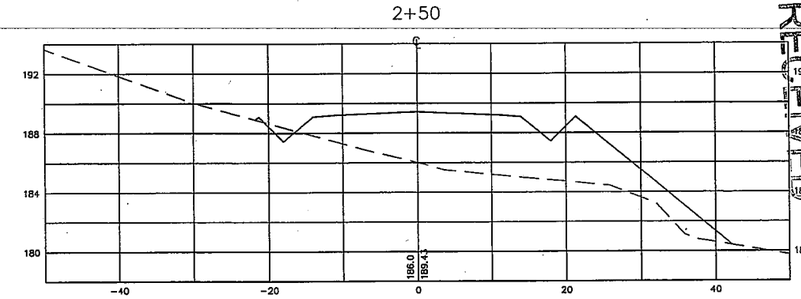

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LAND USE OFFICE

ENGR STAMP

REVISIONS

NO.	DESCRIPTION	DATE

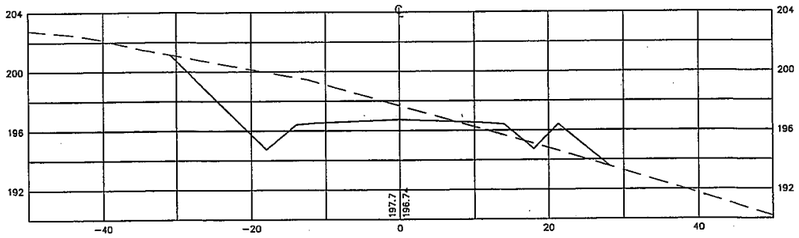
CROSS SECTIONS
TAX MAP 223 LOT 29 & 30
RAMSDELL WOODS
27 RAMSDELL LANE
BARRINGTON, NH
OWNED BY
GARY & GEORGE RAMSDELL
RAMSDELL LANE, BARRINGTON, NH 03825

DECEMBER 11, 2013

SCALE
5 2.5 0 10 (H)
2.5 0 5(V)
H 1"=10' V 1"=5'

BROWN ENGINEERING /SURVEYING
civil engineers, surveyors
construction managers
683C FIRST NH TURNPIKE
NORTHWOOD, NEW HAMPSHIRE 03261
Tel: (603) 677-7004
Fax: (603) 677-7014

7+00



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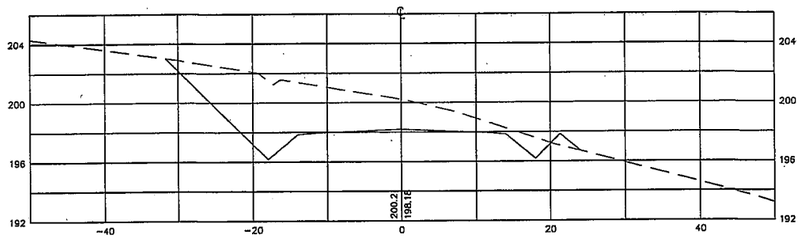

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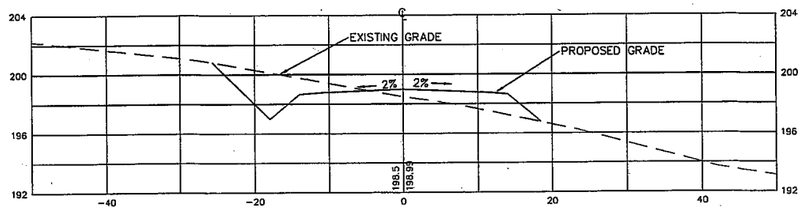

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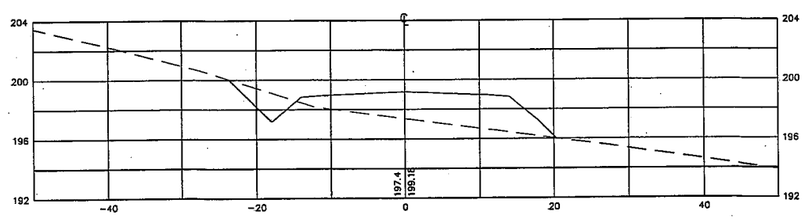

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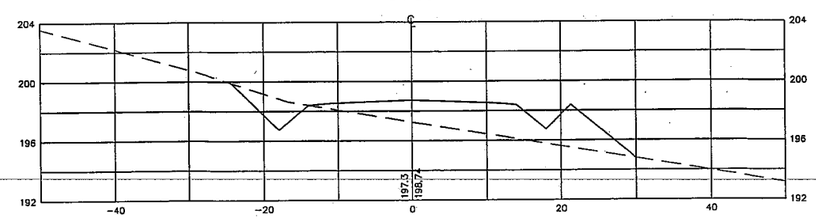

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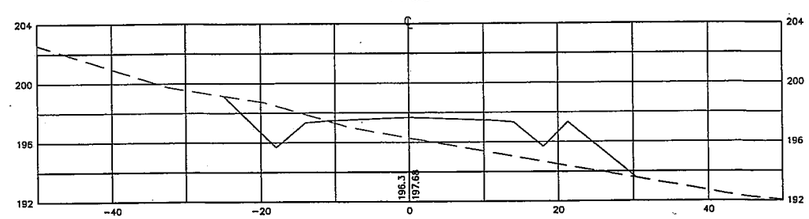

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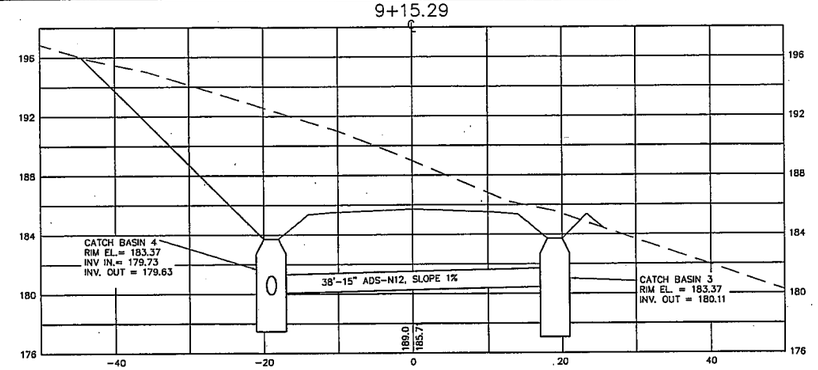

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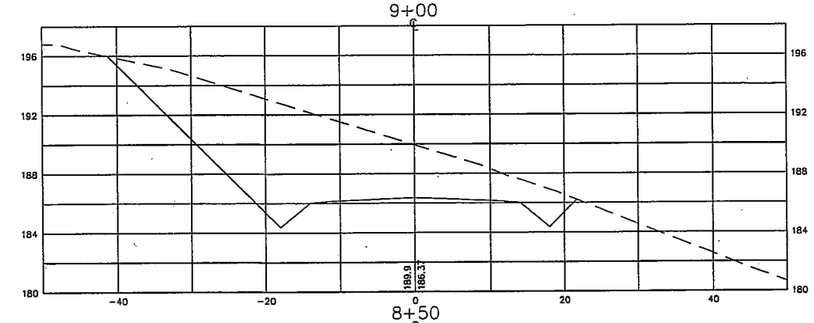

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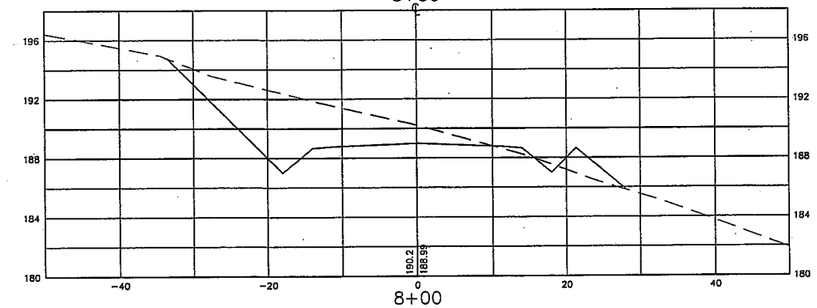

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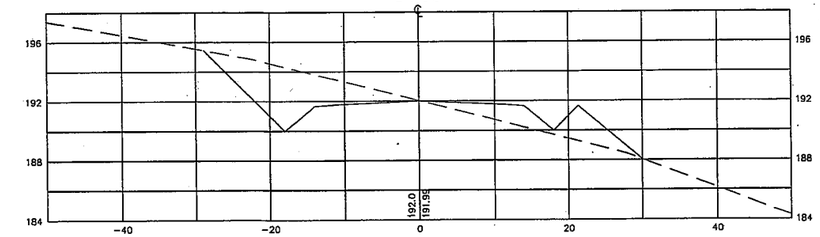

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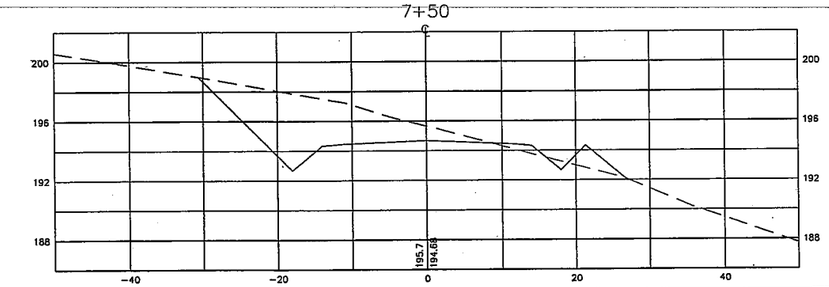

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2.5 0 5(V)
H 1"=10' V 1"=5'

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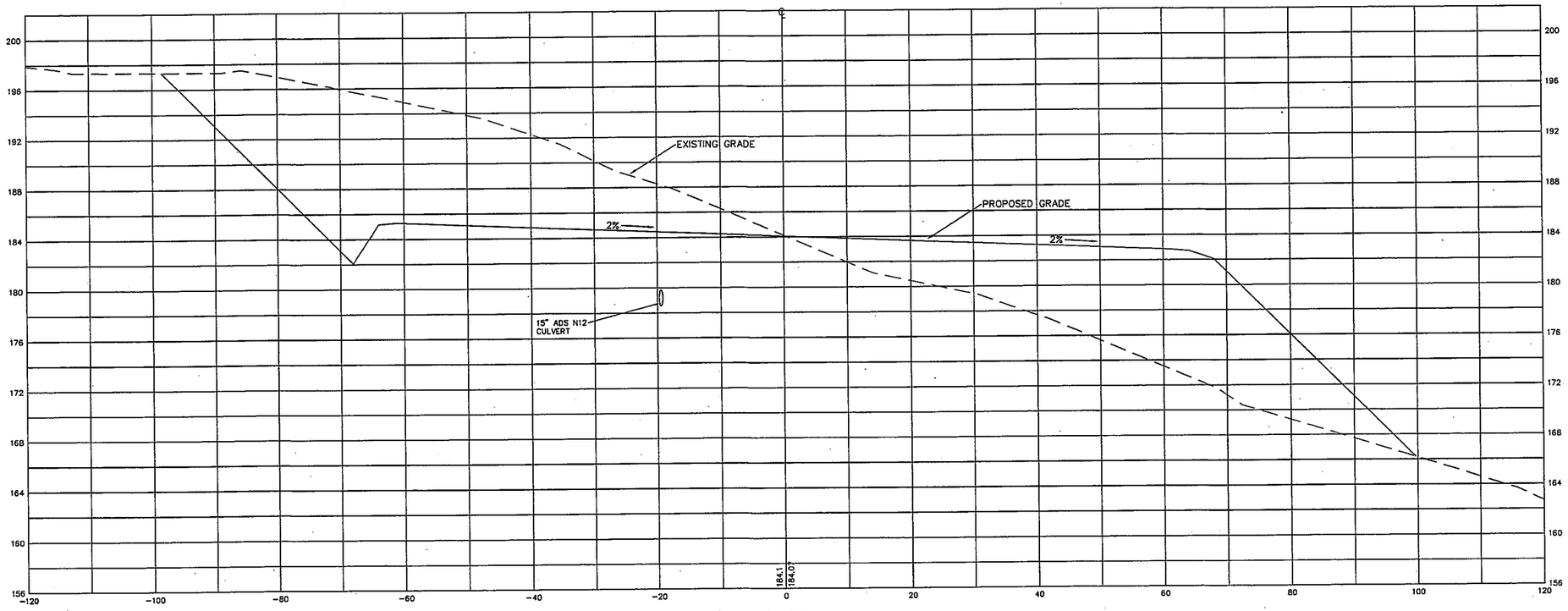
9+64



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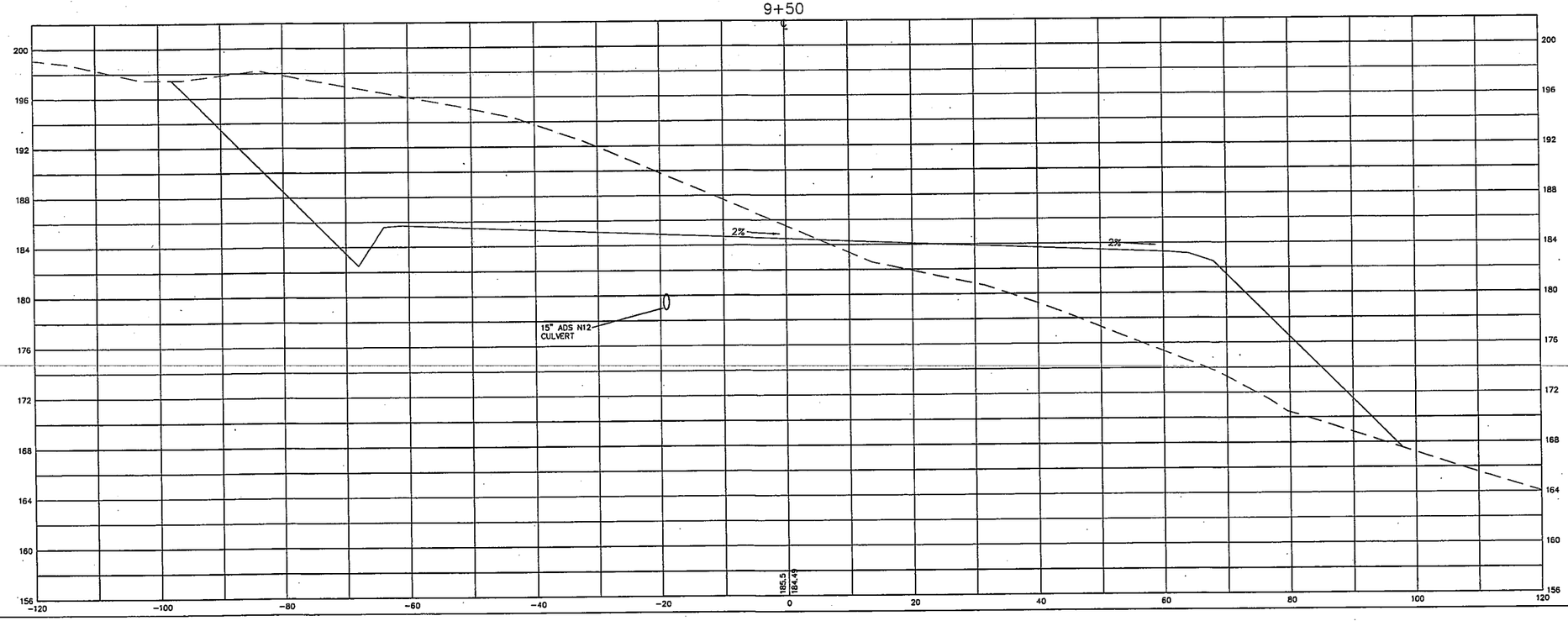

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27 RAMSDELL LANE
BARRINGTON, NH
OWNED BY
GARY & GEORGE RAMSDELL
RAMSDELL LANE, BARRINGTON, NH 03825

DECEMBER 11, 2013

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H 1"=10' V 1"=5'

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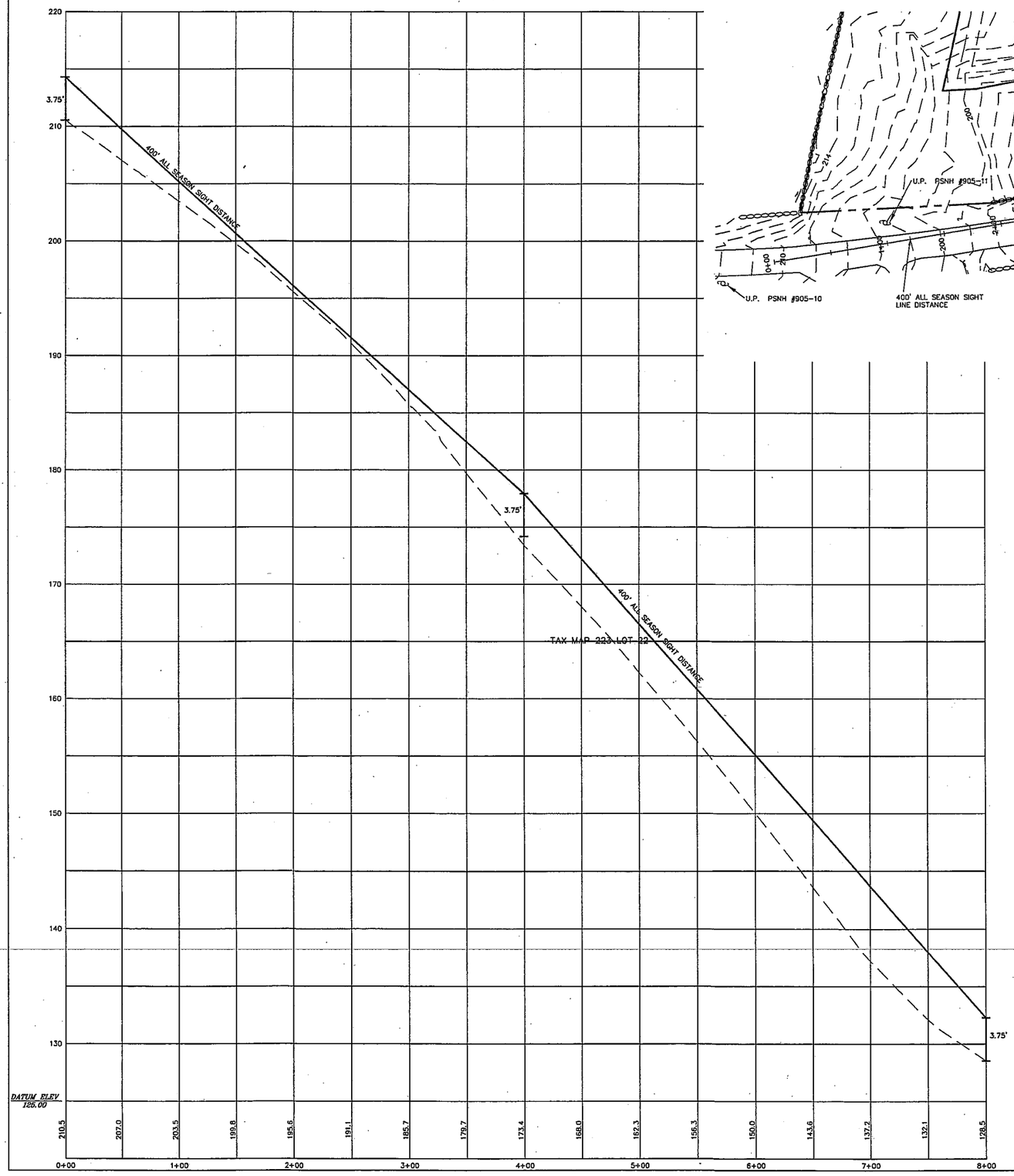

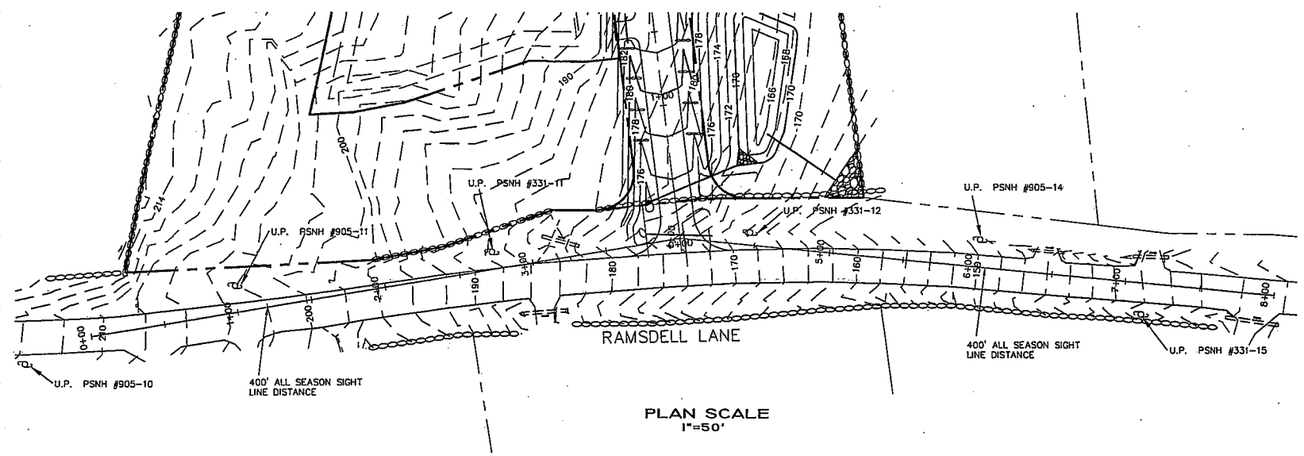

PLAN SCALE
1"=50'

PROFILE SCALE
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5 0 10(V)
H 1"=50' V 1"=5'

LAND USE OFFICE
DEC 11 2013
RECEIVED

ENGR STAMP

REVISIONS

NO.	DESCRIPTION	DATE

PLAN & PROFILE – SIGHT LINE
TAX MAP 223 LOT 29 & 30
RAMSDELL WOODS
27 RAMSDELL LANE
BARRINGTON, NH
OWNED BY
GARY & GEORGE RAMSDELL
RAMSDELL LANE, BARRINGTON, NH 03825

DECEMBER 11, 2013

SCALE
AS NOTED

BROWN ENGINEERING /SURVEYING

civil engineers, surveyors
construction managers
683C FIRST NH TURNPIKE
NORTHWOOD, NEW HAMPSHIRE 03261
Tel: (603) 677-7004
Fax: (603) 677-7014

SHEET 15 OF 20

GENERAL NOTES:

1. PROJECT ENGINEER: BROWN ENGINEERING, LLC., 14 LEAVITT ROAD, PITTSFIELD NH. 03263

   PROJECT SURVEYOR: BROWN ENGINEERING, LLC., 14 LEAVITT ROAD, PITTSFIELD NH. 03263

   PROJECT WETLAND SCIENTIST: WEST ENVIRONMENTAL, INC

2. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL CONFORM TO TOWN OF BARRINGTON REGULATIONS AND THE LATEST EDITION OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION. PLEASE ALSO REFER TO THE PENACOOK BOSCAWEN WATER PRECINCT CONSTRUCTION STANDARDS FOR SPECIFIC WATER, SEWER OR DRAINAGE DETAILS.
3. IF, DURING CONSTRUCTION IT BECOMES APPARENT THAT DEFICIENCIES EXIST IN THE APPROVED DESIGN DRAWINGS, THE CONTRACTOR, DEVELOPER or OWNER ARE RESPONSIBLE TO DOCUMENT THE APPARENT DEFICIENCIES AND NOTIFY THE DESIGN ENGINEER PRIOR TO CONTINUING CONSTRUCTION ACTIVITIES. THE DESIGN ENGINEER, IN COOPERATION WITH THE CONTRACTOR, DEVELOPER or OWNER WILL RESSOLVE THE APPARENT DEFICIENCIES TO MEET APPLICABLE TOWN OF BARRINGTON REGULATIONS.
4. IF, DURING CONSTRUCTION, IT BECOMES APPARENT THAT ADDITIONAL EROSION CONTROL MEASURES ARE REQUIRED, THE CONTRACTOR, DEVELOPER or OWNER SHALL BE REQUIRED TO INSTALL ADDITIONAL EROSION PROTECTION MEASURES.
5. THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION TO VERIFY THE LOCATION OF ALL UTILITIES OVERHEAD or UNDERGROUND, WITHIN THE CONSTRUCTION AREA. THE PROTECTION OR RELOCATION OF UTILITIES IS ULTIMATELY THE RESPONSIBILITY OF THE CONTRACTOR. (DIG SAFE NUMBER PROVIDED ON SHEET 1)
6. THE CONTRACTOR SHALL MAINTAIN EMERGENCY ACCESS TO ALL AREAS AT ALL TIMES.
7. NO EXCAVATED AREA SHALL BE LEFT UNATTENDED AND SHALL BE THOROUGHLY SECURED ON A DAILY BASIS.
8. PLEASE REFER TO THE OTHER PLAN SHEETS IN THIS SET FOR ADDITIONAL CONSTRUCTION DETAILS AND NOTES:

CONSTRUCTION SEQUENCE:

1. CUT AND CLEAR TREES WITHIN LIMIT OF WORK (PROPOSED TREELINE), UNLESS OTHERWISE NOTED. ALL STUMPS, BRANCHES, TOPS AND BRUSH TO BE PROPERLY DISPOSED OF, PREFERABLY OFF SITE.
2. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE AS SHOWN AND DETAILED IN THIS PLAN SET.
3. CONSTRUCT TEMPORARY (silt fence) AND PERMANENT EROSION CONTROL FACILITIES (detention basins, treatment swales, grass swales and exfiltation basins) PRIOR TO ANY EARTH MOVING OPERATION.
4. ALL SWALES AND DITCH LINES SHALL BE PROTECTED FROM EROSION. ALL DITCHES AND SWALES SHALL BE STABILIZED PRIOR TO DIRECTING FLOW INTO THEM.
5. ALL STORM DRAINAGE SYSTEMS SUCH AS DETENTION/RETENTION BASINS, TREATMENT SWALES AND LEVEL SPREADERS SHALL BE PROTECTED FROM EROSION. ALL STORM DRAINAGE SYSTEMS SHALL BE STABILIZED PRIOR TO DIRECTING FLOW INTO THEM.
6. NO CATCH BASIN FRAME AND GRATE SHALL BE INSTALLED PRIOR TO PAVING. ALL DRAINAGE STRUCTURES ARE TO BE "PLATED" AND CUT OUT FOLLOWING PAVING OPERATIONS, ONLY IF ALL DOWNSTREAM DRAINAGE ELEMENTS ARE STABLE, INCLUDING, BUT NOT LIMITED TO OUTLET PROTECTION, ALL SLOPE GRADING, VEGETATED or RIPRAP SWALES, DETENTION BASIN AND TREATMENT SWALES.
7. IF FRAME AND GRATES ARE INSTALLED, SPECIFIC SOIL EROSION MEASURES MUST BE INSTALLED SUCH AS GRAVEL AND WIRE MESH DROP INLET SEDIMENT FILTER or BLOCK AND GRAVEL DROP INLET SEDIMENT FILTER AS INDICATED ON DETAILS IN THIS PLAN SET.
8. CONSTRUCT TEMPORARY CULVERTS, DIVERSION DITCHES/SWALES or BERMS AS REQUIRED TO MINIMIZE THE EROSIVE AFFECTS OF STORMWATER RUNOFF DURING ALL CONSTRUCTION ACTIVITIES.
9. COMPLETE GRUBBING OPERATIONS. ALL STUMPS AND DEBRIS SHALL BE PROPERLY DISPOSED OF, PREFERABLY OFF SITE.
10. ALL MATERIAL SUITABLE FOR USE AS TOPSOIL SHALL BE STOCKPILED IN UPLANDS AREAS. ALL STOCKPILES SHALL BE SEEDED WITH WINTER RYE AND IF NECESSARY, SURROUNDED WITH SILT FENCE AND/OR HAY BALES, IN ORDER TO PREVENT or CONTAIN SOIL EROSION.
11. ALL MATERIAL SUITABLE FOR FILL or SELECT MATERIAL SHALL BE STOCKPILED IN UPLANDS AREAS. ALL STOCKPILES SHALL BE SURROUNDED WITH SILT FENCE AND/OR HAY BALES, IN ORDER TO CONTAIN SOIL EROSION.
12. REMOVE ALL IMPROPER ROADWAY/SITE FOUNDATION MATERIAL WITHIN 18" OF SUBGRADE. REPLACE WITH COMPACTED GRANULAR FILL ACCEPTABLE TO THE STATE/TOWN SPECIFICATIONS. ALL SUITABLE FILL MATERIAL SHALL BE COMPACTED TO AT LEAST 95% OF THE DRY WEIGHT AS DETERMINED BY MODIFIED PROCTOR TESTING (ASTM D-1556) REQUIREMENTS.
13. CONSTRUCT ALL UNDERGROUND UTILITIES INCLUDING, BUT NOT LIMITED TO SEWER, WATER, DRAIN, GAS, DATA, CABLE AND POWER.
14. ROUGH GRADE ROADWAY/SITE WITHIN LIMIT OF WORK AND COMMENCE CONSTRUCTION OF ROADWAYS.
15. COMPLETE ROADWAY SLOPE GRADING/EMBANKMENT CONSTRUCTION. ALL SLOPES SHALL BE STABILIZED AND SEEDED IMMEDIATELY AFTER GRADING. THE CONTRACTOR SHALL STABILIZE SLOPES WITH APPROPRIATE SEEDING PROGRAM OR JUTE MAT, WHEREEVER SEPCIFIED.
16. APPLY TOPSOIL TO ROADWAY SLOPES AND OTHER AREAS DISTURBED BY CONSTRUCTION. TOPSOIL USED MAY BE NATIVE ORGANIC MATERIAL SCREENED AS TO BE FREE FROM ROOTS, BRANCHES, STONES, AND OTHER DELETERIOUS MATERIALS. TOPSOIL SHALL BE APPLIED SO AS TO PROVIDE A MINIMUM OF A 4-INCH COMPACTED THICKNESS. UPON COMPLETION OF TOPSOILING, FINISHED SECTIONS ARE TO BE LIMED, SEEDED, AND MULCHED. THE CONTRACTOR SHALL INSPECT COMPLETED SECTIONS OF WORK ON A REGULAR BASIS AND REMEDY ANY PROBLEM AREAS UNTIL A HEALTHY STAND OF GRASS IS ESTABLISHED.
17. PERFORM FINAL PAVING OPERATIONS, INSTALL GUARDRAIL (IF APPLICABLE) AND MONUMENTATION AS SHOWN ON THE APPROVED PLANS.
18. MAINTAIN, REPAIR, AND REPLACE TEMPORARY EROSION CONTROL MEASURES AS NECESSARY FOR A MINIMUM PERIOD OF 12 MONTHS FOLLOWING SUBSTANTIAL COMPLETION.
19. AFTER STABILIZATION (12 MONTHLY FOLLOWING SUBSTANTIAL COMPLETION), REMOVE AND PROPERLY DISPOSE OF TEMPORARY EROSION CONTROL MEASURES, PREFERRABLE OFF SITE.
20. FOLLOWING SUBSTANTIAL COMPLETION OF ALL ROADWAY ACTIVITIES AND ONCE STABLE CONDITIONS ARE ACHIEVED, CAREFULLY AND REGULARLY MONITOR CONSTRUCTION ACTIVITIES ON ALL INDIVIDUAL LOTS TO INSURE CONSTRUCTION ACTIVITIES ARE BEING PERFORMED IN SUCH A WAY AS NOT TO ENDANGER THE INTEGRITY OF ROADWAY EMBANKMENTS, STORMWATER SYSTEMS AND UTILITIES.
21. AREAS SHALL BE CONSIDERED "STABLE" IF ONE OF THE FOLLOWING HAS OCCURRED:
    A. GRAVEL BASE COURSE HAS BEEN PLACED AND COMPACTED (IN AREAS TO BE PAVED)
    B. VEGETATIVE GROWTH IS 85 % ESTABLISHED, BASED ON VISUAL OBSERVATIONS
    C. RIPRAP or NON-EROSIVE MATERIAL HAS BEEN PROPERLY INSTALLED, TO GRADATION & DEPTH SPECIFIED.
    D. EROSION CONTROL BLANKETS (JUTE MATE OR EQUAL) HAVE BEEN PROPERLY INSTALLED

WINTER CONSTRUCTION NOTES

1. ALL PROPOSED VEGETATIVE AREAS NOT STABLE or DISTURBED AFTER OCTOBER 15, SHALL BE STABILIZED BY SEEDING, MULCHING OR INSTALLING EROSION CONTROL BLANKETS. NO EROSION CONTROL MEASURES SHALL BE PLACED OVER SNOW or FROZEN GROUND.
2. WHEN WINTER CONSTRUCTION ACTIVITIES DISTURB SNOW or FROZEN GROUND, THE CONTRACTOR WILL MAKE EVERY EFFORT TO MINIMIZE THE SIZE, DURATION AND FREQUENCY OF LAND DISTURBANCE. ALL DISTURBED AREAS ARE TO BE STABILIZED PRIOR TO SPRING THAW.
3. ALL ROAD OR PARKING SURFACES AFTER NOVEMBER 15, WHICH HAS NOT BE PAVED, IF WORK HAS STOPPED, SHALL BE STABILIZED WITH CRUSHED AGGREGATE HAVING UNIFORM GRADATION AND A MINIMUM DEPTH OF 3".

EROSION CONTROL NOTES

ALL EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED FOR THE DURATION OF THE PROJECT IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS (EPA, NHDES AND TOWN OF BOSCAWEN). THE GENERAL NOTES AND DETAILS CONTAINED IN THIS PLAN SER SERVE AS A GUIDE ONLY.

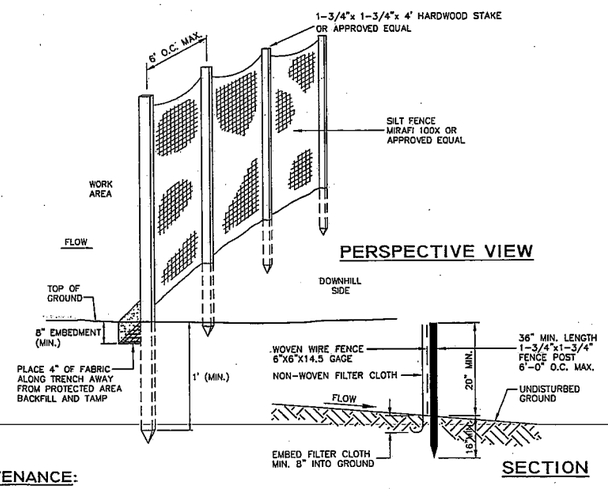
1. INSTALLATION OF SILTATION FENCES SHALL BE COMPLETED PRIOR TO THE START OF CONSTRUCTION. PREFABRICATED SILTATION FENCES SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
2. SILTATION FENCES SHALL BE KEPT CLEAN DURING CONSTRUCTION AND REMOVED WHEN ALL SLOPES HAVE A HEALTHY STAND OF VEGETATIVE COVER.
3. ALL EROSION CONTROL MEASURES SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EVERY RAINFALL.
4. EXISTING VEGETATION IS TO REMAIN UNDISTURBED WHEREVER POSSIBLE.
5. THE AREA OF LAND EXPOSED AND THE TIME OF EXPOSURE SHALL BE MINIMIZED. ALL DISTURBED AREAS SHALL BE STABILIZED WITHIN 72.0 HOURS AFTER FINAL GRADING.
6. ALL DISTURBED AREAS SHALL HAVE A MINIMUM OF 4" OF LOAM INSTALLED WITH NOT LESS THAN 1.1 POUNDS OF SEED MIX PER 1,000 SQ. FT. (SEE SEEDING SPECIFICATIONS ON THIS SHEET)
7. LIME AND FERTILIZER SHALL BE INCORPORATED INTO THE SOIL PRIOR TO OR AT THE TIME OF AT THE TIME OF SEEDING. A MINIMUM OF 2 TONS PER ACRE OF AGRICULTURAL LIMESTONE AND 500 LBS. PER ACRE OF 10-20-20 FERTILIZER SHALL BE APPLIED. SEEDING PRACTICES SHALL COMPLY WITH LOCAL USDA SOIL CONSERVATION SERVICES RECOMMENDATIONS.
8. HAY MULCH OR JUTE MATTING SHALL BE USED IF/WHERE INDICATED ON THE PLANS. A MINIMUM OF 1.5 TONS OF MULCH PER ACRE SHALL BE APPLIED. MULCH SHALL BE ANCHORED IN PLACE WHERE NECESSARY. JUTE MATTING SHALL BE LAID IN THE DIRECTION OF RUNOFF FLOW AND APPLIED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
9. PERMANENT OR TEMPORARY COVER MUST BE IN PLACE BEFORE THE GROWING SEASON ENDS. WHEN SEEDED AREAS ARE MULCHED, PLANTINGS MAY BE MADE FROM EARLY SPRING TO EARLY OCTOBER. WHEN SEEDED AREAS AREA NOT MULCHED, PLANTINGS SHOULD BE MADE FROM EARLY SPRING TO MAY 20 OR FROM AUGUST 15 TO SEPTEMBER 15. NO DISTURBED AREA SHALL BE LEFT EXPOSED DURING WINTER MONTHS (OCTOBER 15 to MAY 1).
10. AVOID USING CHEMICAL DUST CONTROL WHENEVER POSSIBLE. CLEAN WATER SHALL BE USED FOR DUST CONTROL, WHENEVER POSSIBLE IN APPROPRIATE AREAS.

EPA: NPDES GENERAL NOTES

1. THE PROPOSED LAND DISTURBANCE IS APPROXIMATELY 50,000 SF. THEREFORE, ACCORDING TO THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PHASE II CONSTRUCTION GENERAL PERMIT (CGP) SECTION 1.1, THIS PROJECT IS REQUIRED TO COMPLY WITH THE REGULATORY CRITERIA AND INTENT OF THE NPDES PHASE II PROGRAM, LATEST EDITION.
2. THE OWNER AND CONTRACTOR ARE REQUIRED TO PREPARE, MAINTAIN AND HAVE ON FILE A STORM WATER POLLUTION PREVENTION PLAN (SWPPP).
3. THE OWNER AND CONTRACTOR ARE REQUIRED TO PREPARE, SUBMIT, POST ON SITE AND HAVE ON FILE A NOTICE OF INTENT (NOI). CONSTRUCTION MAY NOT COMMENCE UNTIL 7 DAYS AFTER EPA HAVE REVIEWED/APPROVED THE PROJECT NOI, WHICH GRANTS COVERAGE UNDER THE CGP (NHR100000).
4. THE CONTRACTOR/OWNER IS RESPONSIBLE TO POST THE NOI ON SITE IN A HIGHLY VISIBLE POSITION, PROTECTED FROM THE WEATHER.
5. THE OWNER AND CONTRACTOR ARE REQUIRED TO INSTALL, INSPECT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES AS DESCRIBED ON THE APPROVED PLANS AND SWPPP INCLUDING INSPECTION LOGS.
6. THE OWNER AND CONTRACTOR ARE REQUIRED TO PREPARE, SUBMIT, POST ON SITE AND HAVE ON FILE A NOTICE OF INTENT (NOI).
7. THE OWNER OR CONTRACTOR MAY CONTACT THE NORTHEAST EPA REGIONAL COORDINATOR FOR RESOLUTION TO ANY NPDES, CGP, SWPPP, NOI OR NOT QUESTIONS, CONCERNS OR CLARIFICATION:

   EPA REGIONAL REPRESENTATIVE: MS. THELMA MURPHY
   US EPA, REGION 01/OFFICE OF ECOSYSTEM PROTECTION
   1 CONGRESS STREET, SUITE 1100
   BOSTON, MA 02114-2023
   PHONE: (617) 918-1615
   EMAIL: murphy.thelma@epa.gov

8. THE PROPOSED PROJECT WILL NOT REQUIRE STATE (NHDES) ALTERATION OF TERRAIN PERMIT, SINCE THE ANTICIPATED LAND DISTURBANCE IS NOT GREATER THAN 100,000 SF, ACCORDING TO ENV-WS 415.
9. THE PROPOSED PROJECT WILL REQUIRE STATE (NHDES) DREDGE AND FILL PERMIT, SINCE THE PROJECT DOES ANTICIPATE WETLAND DISTURBANCE, ACCORDING TO WT 302.04.

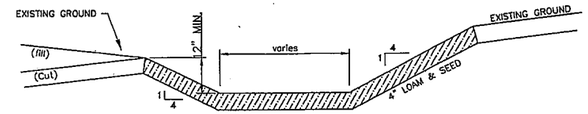


MAINTENANCE:

1. SILT FENCES ARE TO BE INSPECTED IMMEDIATELY AFTER EVERY RAINFALL AND DAILY DURING PROLONGED RAINFALL EVENTS. THE CONTRACTOR IS RESPONSIBLE TO REPAIR or REPLACE ANY AND ALL COMPROMISED SILT FENCE. ALL INSPECTIONS/MAINTENANCE EFFORTS SHALL BE RECORDED IN A DAILY LOG AS SPECIFIED IN THE STORMWATER POLLUTION PREVENTION PLAN.
2. IF THE FABRIC ON A SILT FENCE SHOULD DECOMPOSE OR BECOME INEFFECTIVE DURING THE EXPECTED LIFE OF THE FENCE, THE INEFFECTIVE AREA SHALL BE IMMEDIATELY REMOVED AND REPLACED.
2. ALL SILT DEPOSITS SHOULD BE REMOVED AND PROPERLY DISPOSED, WHEN THE HEIGHT OF SILT IS EQUAL TO TO GREATER THAN ONE THIRD OF OVERALL BARRIER HEIGHT OR 12 INCHES, WHICHEVER COMES FIRST.
3. ALL REMOVED SEDIMENT DEPOSITS OR LEFT IN PLACE AFTER THE FABRIC HAS BEEN REMOVED, SHALL BE GRADED OUT IN CONFORMANCE WITH THE APPROVED PLANS, MULCHED AND RE-VEGETATED.

SILT FENCE

NOT TO SCALE



GRASS LINED BASIN OR SWALE

NOT TO SCALE

CONSTRUCTION NOTES:

1. THE FOUNDATION AREA OF THE WATERWAY SHALL BE CLEARED AND GRUBBED OF ALL TREES, BRUSH, STUMPS AND OTHER OBJECTIONABLE MATERIAL. MATERIALS REMOVED SHALL BE DISPOSED OF SO THEY DO NOT INTERFERE WITH THE CONSTRUCTION OR PROPER FUNCTION OF THE WATERWAY.
2. THE WATERWAY SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE DESIGN CRITERIA. THE WATERWAY SHALL BE FREE OF IRREGULARITIES WHICH WILL IMPEDE NORMAL FLOW.
3. EARTH FILLS REQUIRED TO MEET SUBGRADE REQUIREMENTS BECAUSE OF OVER EXCAVATION OR TOPOGRAPHY SHALL BE COMPACTED TO THE SAME DENSITY AS THE SURROUNDING SOIL TO PREVENT UNEQUAL SETTLEMENT THAT COULD CAUSE DAMAGE TO THE COMPLETED WATERWAY. EARTH REMOVED AND NOT NEEDED IN CONSTRUCTION SHALL BE SPREAD OR DISPOSED OF SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE WATERWAY.
4. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER AS TO MINIMIZE EROSION AND AIR AND WATER POLLUTION. ALL APPROPRIATE STATE AND LOCAL LAWS AND REGULATIONS SHALL BE COMPLIED WITH FOR DESIGN AND INSTALLATION.
5. THE WATERWAY SHALL BE STABILIZED USING THE APPROPRIATE "BEST MANAGEMENT PRACTICES" FOR VEGETATIVE MEASURES.

SEEDING SPECIFICATIONS

MIXTURE	POUNDS/ACRE	POUNDS/1,000 SF
TALL FESCUE	20	0.45
CREEPING RED FESCUE	20	0.45
BIRDSFOOT TREFOIL	8	0.20
TOTAL	48	1.10

1. 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 FOUR 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 FOUR INCHES TO PREPARE A SEEDBED AND MIX FERTILIZER AND LIME INTO THE SOIL. THE SEEDBED SHOULD BE LEFT IN A REASONABLY FIRM AND SMOOTH CONDITION. THE LAST TILLAGE OPERATION SHOULD BE PERFORMED ACROSS THE SLOPE WHEREVER PRACTICAL.
2. 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 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 0.09 LBS. PER SQ. FT.
      - NITROGEN (N): 50 LBS. PER ACRE OR 1.1 LBS. PER 1000 SQ. FT.
      - PHOSPHATE (P_2O_5): 100 LBS. PER ACRE OR 2.2 LBS. PER 1000 SQ. FT.
      - POTASH (K_2O): 100 LBS. PER ACRE OR 2.2 LBS. PER 1000 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 0.25 INCH OF SOIL OR LESS, BY CULTIPACKING OR RAKING.
   C. REFER TO TABLE 7-35 OF "STORMWATER MANAGEMENT AND SEDIMENTATION CONTROL HANDBOOK FOR URBAN AND DEVELOPING AREAS IN NEW HAMPSHIRE", FOR APPROPRIATE SEED MIXTURES AND TABLE 7-36 FOR RATES OF SEEDING. ALL LEGUMES (CROWNVETCH, BIRDSFOOT TREFOIL, AND FLATPEA), MUST BE INNOCULATED WITH THEIR SPECIFIC INNOCULANT.
   D. WHEN SEEDED AREAS ARE MULCHED, PLANTINGS MAY BE MADE FROM EARLY SPRING TO EARLY OCTOBER. WHEN SEEDED AREAS ARE NOT MULCHED, PLANTINGS SHOULD BE MADE FROM EARLY SPRING TO MAY 20 OR FROM AUGUST 10 TO SEPTEMBER 1.
3. MULCH
   A. HAY, STRAW, OR OTHER MULCH, WHEN NEEDED, SHOULD BE APPLIED IMMEDIATELY AFTER SEEDING.
   B. MULCH WILL BE HELD IN PLACE USING TECHNIQUES FROM THE "BEST MANAGEMENT PRACTICE FOR MULCHING", AS SHOWN IN, "STORMWATER MANAGEMENT AND SEDIMENTATION CONTROL HANDBOOK FOR URBAN AND DEVELOPING AREAS IN NEW HAMPSHIRE".
4. MAINTENANCE TO ESTABLISH A STAND
   A. PLANTED AREAS 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 PERENNIALS TAKE 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.

MAINTENANCE:

MAINTENANCE OF THE VEGETATION IN THE GRASSED WATERWAY IS EXTREMELY IMPORTANT IN ORDER TO PREVENT RILLING, EROSION AND FAILURE OF THE WATERWAY. MOWING SHOULD BE DONE FREQUENTLY ENOUGH TO KEEP THE VEGETATION IN VIGOROUS CONDITION AND TO CONTROL ENCROACHMENT OF WEEDS AND WOODY VEGETATION, HOWEVER IT SHOULD NOT BE MOWED TO CLOSELY AS TO REDUCE EROSION RESISTANCE IN THE WATERWAY. THE WATERWAY SHOULD BE INSPECTED PERIODICALLY AND AFTER EVERY MAJOR STORM TO DETERMINE THE CONDITION OF THE SWALE. RILLS AND DAMAGED AREAS SHOULD BE PROMPTLY REPAIRED AND RE-VEGETATED AS NECESSARY TO PREVENT FURTHER DETERIORATION. FERTILIZE ON AN "AS-NEEDED" BASIS TO KEEP THE GRASS HEALTHY.

GENERAL DETAILS

RAMSDELL WOODS SUBDIVISION
TAX MAP 233 LOT 29 & 30

RAMSDELL LANE, BARRINGTON, NEW HAMPSHIRE

PREPARED FOR:
TUCK REALTY CORP.
34 RAEDER DRIVE
STRATHAM, NH 03885

OWNER OF RECORD:
GARY & GEORGE RAMSDELL
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BARRINGTON, NH 03825

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civil engineers, surveyors
construction managers

DECEMBER 11, 2013

SCALE: AS NOTED

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JOB NO: 4714-03
SHEET 16 OF 20

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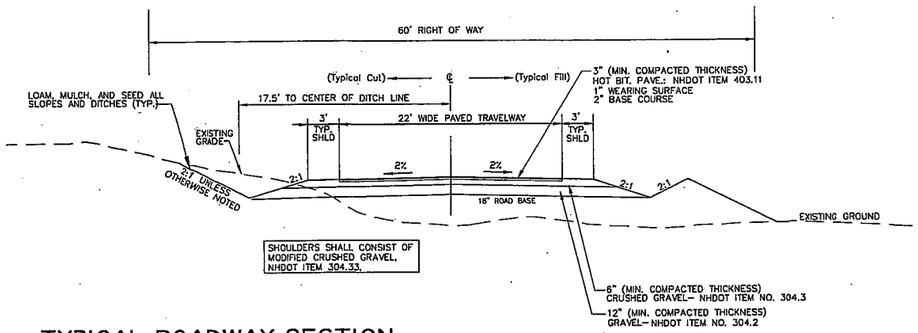
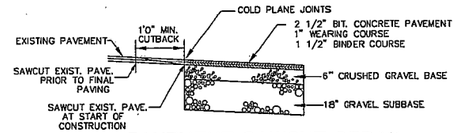
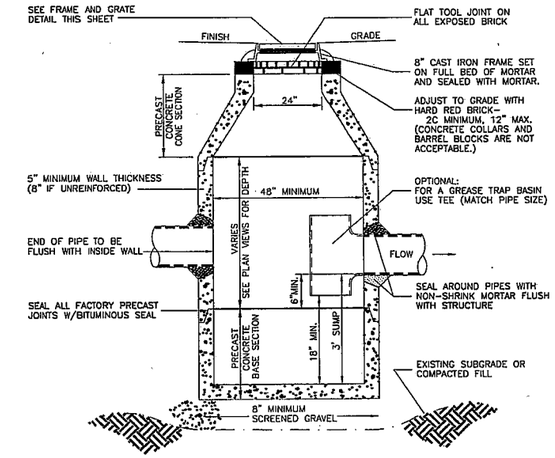


TYPICAL ROADWAY SECTION

NOT TO SCALE



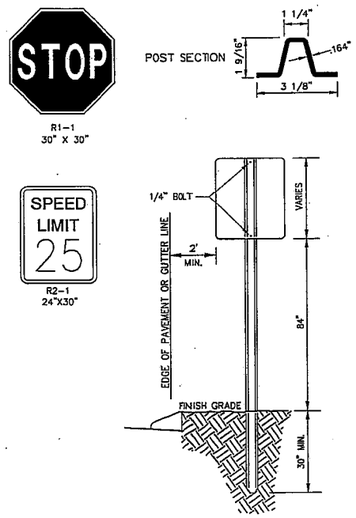
PAVEMENT SAWCUT DETAIL



NOTE: ALL PRECAST SECTIONS SHALL CONFORM TO ASTM C-478

CATCH BASIN

NOT TO SCALE



NOTES:

LENGTH: P-12, 12'-0"; P-14, 14'-0"; P-16, 16'-0".

WEIGHT PER LINEAR FOOT: 2.50 LBS. (MIN.)

HOLES: 3/8" DIA. 1' C-C FULL LENGTH

STEEL: SHALL CONFORM TO ASTM A-499 (GRADE 60) OR ASTM A-576 (GRADE 1070-1080).

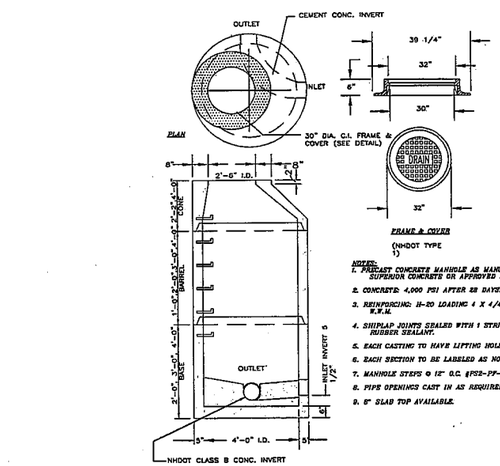
FINISH: SHALL BE PAINTED WITH TWO COATS OF AN APPROVED MEDIUM GREEN, BAKED ON OR AIR DRIED. PAINT OF WEATHER RESISTANT QUALITY. ALL FABRICATION SHALL BE COMPLETE BEFORE PAINTING.

NOTES:

1. POSTS SHALL BE PLUMB; ANY POST BENT OR OTHERWISE DAMAGED SHALL BE REMOVED AND PROPERLY REPLACED. POSTS MAY BE SET OR DRIVEN.
2. WHEN POSTS ARE SET, HOLES SHALL BE DUG TO THE PROPER DEPTH AFTER INSERTING POSTS, THE HOLES SHALL BE BACKFILLED WITH SUITABLE MATERIAL IN LAYERS NO TO EXCEED 6" DEEP THOROUGHLY COMPACTED, CARE BEING TAKEN TO PRESERVE THE ALIGNMENT OF THE POST.
3. WHEN POSTS ARE DRIVEN, A SUITABLE DRIVING CAP SHALL BE USED AND AFTER DRIVING THE TOP OF THE POST SHALL HAVE SUBSTANTIALLY THE SAME CROSS-SECTIONAL DIMENSION AS THE BODY OF THE POST; BATTERED HEADS WILL NOT BE ACCEPTED.
4. POSTS SHALL NOT BE DRIVEN WITH THE SIGN ATTACHED TO THE POST.
5. SIGNS SHALL BE ERECTED IN CONFORMANCE WITH THE REQUIREMENTS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
6. WHEN SIGN IS IN PLACE NO PART OF POST SHALL EXTEND ABOVE THE SIGN.
7. DIMENSIONS SHOWN ARE NOMINAL
8. ALTERNATE SECTIONS MUST BE APPROVED PRIOR TO USE.

TRAFFIC SIGN POST IN GRADE

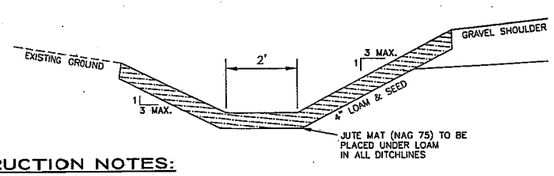
NOT TO SCALE



NOTES:
1. PRECAST CONCRETE MANHOLE AS MANUFACTURED BY SUPERIOR CONCRETE OR APPROVED EQUAL.
2. CONCRETE: 4,000 PSI AFTER 28 DAYS.
3. REINFORCING: H-20 LOADING 4 X 4/4 X 4 W.W.M.
4. SHIPLAP JOINTS SEALED WITH 1 STRIP OF 1" DIA. BUTYL RUBBER SEALANT.
5. EACH CASTING TO HAVE LIFTING HOLES CAST IN.
6. EACH SECTION TO BE LABELED AS NOTED.
7. MANHOLE STEPS @ 12" O.C. #PS2-PF-5L.
8. PIPE OPENINGS CAST IN AS REQUIRED.
9. 8" SLAB TOP AVAILABLE.

DRAIN MANHOLE

NOT TO SCALE



CONSTRUCTION NOTES:

1. THE FOUNDATION AREA OF THE WATERWAY SHALL BE CLEARED AND GRUBBED OF ALL TREES, BRUSH, STUMPS AND OTHER OBJECTIONABLE MATERIAL.
2. THE WATERWAY SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE DESIGN CRITERIA. THE WATERWAY SHALL BE FREE OF IRREGULARITIES WHICH WILL IMPEDE NORMAL FLOW.
3. EARTH FILLS REQUIRED TO MEET SUBGRADE REQUIREMENTS BECAUSE OF OVER EXCAVATION OR TOPOGRAPHY SHALL BE COMPACTED TO THE SAME DENSITY AS THE SURROUNDING SOIL TO PREVENT UNEQUAL SETTLEMENT.
4. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER AS TO MINIMIZE EROSION AND AIR AND WATER POLLUTION.
5. THE WATERWAY SHALL BE STABILIZED USING THE APPROPRIATE "BEST MANAGEMENT PRACTICES" FOR VEGETATIVE MEASURES PRIOR TO DIRECTING STORMWATER TO IT.

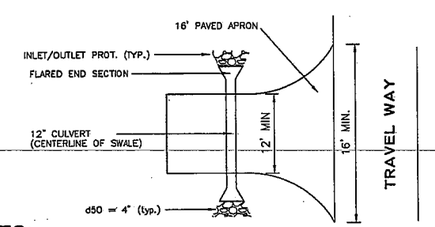
MAINTENANCE:

1. THE WATERWAY SHALL BE INSPECTED PERIODICALLY AND AFTER EVERY MAJOR STORM TO DETERMINE THE CONDITION OF THE SWALE. RILLS AND DAMAGED AREAS SHALL BE PROMPTLY REPAIRED AND RE-VEGETATED AS NECESSARY TO PREVENT FURTHER DETERIORATION.
2. MAINTENANCE OF THE VEGETATION IN THE GRASSED WATERWAY IS EXTREMELY IMPORTANT IN ORDER TO PREVENT RILLING, EROSION AND FAILURE OF THE WATERWAY.
3. MOWING SHOULD BE DONE FREQUENTLY ENOUGH TO KEEP THE VEGETATION IN VIGOROUS CONDITION AND TO CONTROL ENCROACHMENT OF WEEDS AND WOODY VEGETATION, HOWEVER IT SHOULD NOT BE MOWED SO CLOSELY AS TO REDUCE EROSION RESISTANCE IN THE WATERWAY.
4. FERTILIZE ON AN "AS-NEEDED" BASIS TO KEEP THE GRASS HEALTHY.

GRASS LINED ROADSIDE SWALE

NOT TO SCALE

% FINER BY WEIGHT	
STONE SIZE	D 50 = 4"
1"	0-15%
2"	15-30%
3"	30-50%
4"	50-90%
6"	100%



GENERAL NOTES:

1. ALL CULVERTS TO BE CONSTRUCTED WITH A MINIMUM OF 2.0 FT. COVER.
2. FLARED END SECTION TO FIT OVER END OF CULVERT.
3. CULVERT TO EXTEND 3.0 FT. MIN. ON EITHER SIDE OF DRIVEWAY, MEASURED FROM THE EDGE OF PAVEMENT TO END OF CULVERT.
4. CENTERLINE OF CULVERT TO BE ALIGNED WITH CENTERLINE OF SWALE.
5. FINAL DRIVEWAY LOCATION, CULVERT SIZE AND LOCATION WILL BE FIELD DETERMINED.
6. MINIMUM CULVERT SIZE IS 12" DIAMETER.

DRIVEWAY CULVERT DETAIL

NOT TO SCALE

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GENERAL DETAILS

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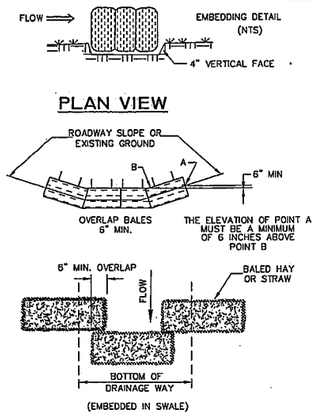


HAY BALE CHECK DAM

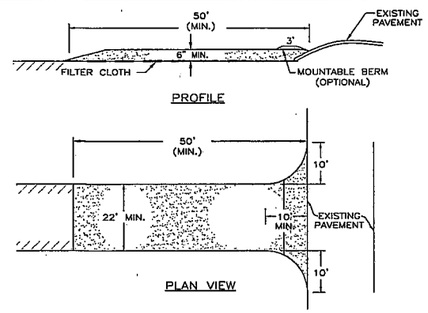
NOT TO SCALE

NOTES:

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 WILL BE MINIMIZED.
3. WHEN HAY BALES ARE USED, THEY ARE TO BE EMBEDDED INTO THE SOIL 4 INCHES. WHEN TIMBERS ARE TO BE USED, THE TIMBER SHALL EXTEND AT LEAST 18 INCHES INTO THE SOIL.
4. HAY OR STRAW BALES SHALL BE ANCHORED INTO THE SOIL USING 2"x2" STAKES DRIVEN THROUGHOUT THE BALES AT LEAST 18 INCHES INTO THE SOIL.
5. SEEDING, FERTILIZING AND MULCHING SHALL CONFORM TO THE RECOMMENDATIONS IN THE APPROPRIATE BMP.
6. STRUCTURES ARE TEMPORARY AND ARE TO BE REMOVED FROM THE CHANNEL WHEN THEIR USEFUL LIFE HAS EXPIRED, WHEN A SOLID STAND OF GRASS HAS GROWN OR THE AFTER ANY STONE HAS STABILIZED

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 STRUCTURES ARE TO BE 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 STRUCTURES. SEDIMENT SHALL BE REMOVED FROM BEHIND STRUCTURES WHEN IT HAS ACCUMULATED TO ONE HALF OF THE ORIGINAL HEIGHT OF THE STRUCTURE.



NOTES:

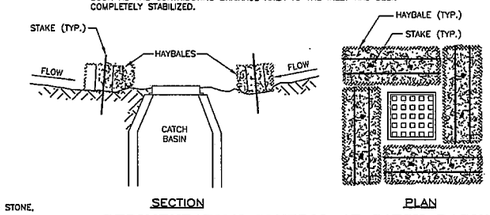
1. STONE FOR A STABILIZED CONSTRUCTION ENTRANCE SHALL BE 1 TO 2 INCH STONE, RECLAIMED STONE, OR RECYCLED CONCRETE EQUIVALENT.
2. THE LENGTH OF THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 50 FEET, EXCEPT FOR A SINGLE RESIDENTIAL LOT WHERE A 30 FOOT MINIMUM WOULD APPLY.
3. THE THICKNESS OF THE STONE 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 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 TOPDRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED PROMPTLY.
8. WHEELS SHALL BE CLEANED TO REMOVE MUD PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.

STABILIZED CONSTRUCTION ENTRANCE DETAIL

NOT TO SCALE

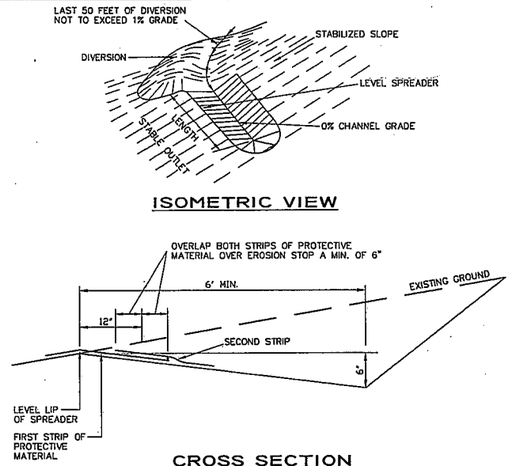
MAINTENANCE NOTES

1. ALL STRUCTURES SHOULD BE INSPECTED AFTER EVERY RAIN STORM AND REPAIRS MADE AS NECESSARY.
2. SEDIMENT SHOULD BE REMOVED FROM THE TRAPPING DEVICES AFTER THE SEDIMENT HAS REACHED A MAXIMUM OF ONE HALF THE DEPTH OF THE TRAP.
3. THE SEDIMENT SHOULD BE DISPOSED OF IN A SUITABLE AREA AND PROTECTED FROM EROSION BY EITHER STRUCTURAL OR VEGETATIVE MEANS.
4. THE TEMPORARY TRAPS SHOULD BE REMOVED AND THE AREA REPAIRED AS SOON AS THE CONTRIBUTING DRAINAGE AREA TO THE INLET HAS BEEN COMPLETELY STABILIZED.



SEDIMENTATION CONTROL AT CATCH BASINS

NOT TO SCALE



NOTES:

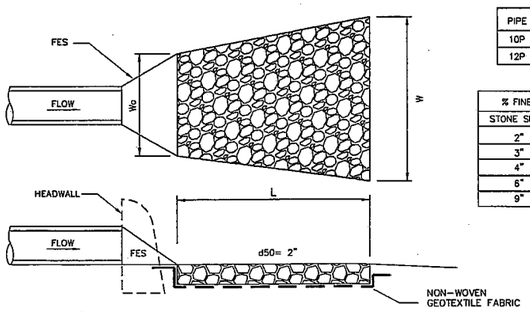
1. CONSTRUCT THE LEVEL SPREADER LIP ON A ZERO PERCENT GRADE TO INSURE UNIFORM SPREADING OF RUNOFF.
2. LEVEL SPREADER SHALL BE CONSTRUCTED ON UNDISTURBED SOIL, NOT ON FILL.
3. AN EROSION STOP SHALL BE PLACED VERTICALLY A MINIMUM OF SIX INCHES DEEP IN A SLIT TRENCH ONE FOOT BACK FROM THE LEVEL LIP AND PARALLEL TO THE LIP. THE EROSION STOP SHALL EXTEND THE ENTIRE LENGTH OF THE LEVEL LIP.
4. THE ENTIRE LEVEL LIP AREA SHALL BE PROTECTED BY PLACING TWO STRIPS OF JUTE OR U EXCELSIOR MATTING ALONG THE LIP. EACH STRIP SHALL OVERLAP THE EROSION STOP BY AT LEAST SIX INCHES.
5. THE ENTRANCE CHANNEL TO THE LEVEL SPREADER SHALL NOT EXCEED A ONE PERCENT GRADE FOR AT LEAST 50 FEET BEFORE ENTERING THE LEVEL SPREADER.
6. THE FLOW FROM THE LEVEL SPREADER SHALL OUTLET ONTO STABILIZED AREAS. WATER SHOULD NOT BE ALLOWED TO RE-CONCENTRATE BELOW THE SPREADER.
7. PERIODIC INSPECTION AND REQUIRED MAINTENANCE SHALL BE PERFORMED.

MAINTENANCE

THE LEVEL SPREADER SHOULD BE CHECKED PERIODICALLY AND AFTER EVERY MAJOR STORM TO DETERMINE IF THE LIP HAS BEEN DAMAGED AND TO DETERMINE THAT THE MAJOR DESIGN CONDITIONS HAVE NOT CHANGED. ANY DETRIMENTAL SEDIMENT ACCUMULATION SHOULD BE REMOVED. IF RILLING HAS TAKEN PLACE ON THE LIP, THEN THE DAMAGE SHOULD BE REPAIRED AND RE-VEGETATED. THE VEGETATION SHOULD BE MOWED ON OCCASION TO CONTROL WEEDS AND THE ENCROACHMENT OF WOODY VEGETATION. CLIPPINGS SHOULD BE REMOVED AND DISPOSED OF OUTSIDE THE SPREADER AREA AND AWAY FROM THE OUTLET AREA. FERTILIZATION SHOULD BE DONE AS NECESSARY TO KEEP THE VEGETATION HEALTHY AND DENSE.

LEVEL SPREADER

NOT TO SCALE



PIPE	SIZE (INCHES)	L (FT)	Wo (FT)	W (FT)	D(50)	Min. Depth
10P	24	15	6	21	2"	18"
12P	15	10	3	14	2"	12"

% FINER BY WEIGHT	
STONE SIZE	D_{50} = 2"
2"	0-15%
3"	15-30%
4"	30-50%
6"	50-90%
9"	100%

% FINER BY WEIGHT	
STONE SIZE	CLASS C
3/4"	0-10%
1-1/2"	0-30%
4"	50-90%
12"	100%

* FIFTY PERCENT BY WEIGHT OF THE RIPRAP MIXTURE SHALL BE SMALLER THAN THE MEDIAN SIZED STONE DESIGNATED AS d50. THE LARGEST STONE IN THE MIXTURE SHALL BE 1.5 TIMES THE d50 SIZE.

NOTES:

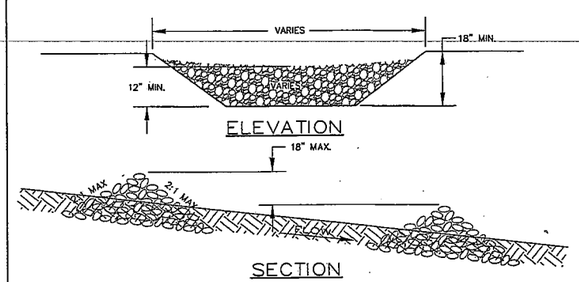
1. THE INLET/OUTLET APRON SHALL BE PREPARED TO THE LINES AND GRADES SHOWN ON THE PLANS.
2. THE RIP-RAP SHALL CONFORM TO THE SPECIFIED GRADATION (d50=2").
3. GEOTEXTILE FABRICS SHALL BE PROTECTED FROM PUNCTURE OR TEARING DURING THE PLACEMENT OF THE ROCK RIP-RAP. DAMAGED AREAS IN THE FABRIC SHALL BE REPAIRED 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 (ALL SIDES).
4. RIP-RAP MAY BE PLACED BY EQUIPMENT (AS TO PREVENT SEGREGATION OF THE STONE SIZES) AND SHALL BE CONSTRUCTED TO THE FULL LAYER THICKNESS IN ONE OPERATION.

MAINTENANCE:

1. THE OUTLET PROTECTION SHALL BE CHECKED AT LEAST BI-ANNUALLY AND AFTER EVERY SIGNIFICANT RAIN EVENT. IF THE RIPRAP HAS BEEN DISPLACED, UNDERMINED OR DAMAGED, IT SHALL BE REPAIRED OR REPLACED IMMEDIATELY.
2. THE CHANNEL IMMEDIATELY BELOW THE OUTLET SHOULD BE CHECKED TO SEE THAT EROSION IS NOT OCCURRING.
3. THE DOWNSTREAM CHANNEL SHOULD BE KEPT CLEAR OF OBSTRUCTIONS SUCH AS FALLEN TREES, DEBRIS AND SEDIMENT THAT COULD CHANGE THE FLOW PATTERNS AND/OR TAILWATER DEPTHS ON THE PIPES.
4. ALL REPAIRS MUST BE CARRIED OUT IMMEDIATELY TO AVOID DAMAGE TO THE OUTLET PROTECTION APRON.

PIPE OUTLET PROTECTION APRON

NOT TO SCALE

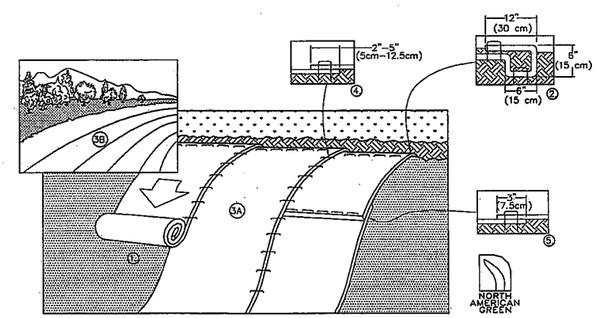


TEMPORARY STONE CHECK DAM

NOT TO SCALE

NOTES:

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 WILL BE MINIMIZED.
3. WHEN HAY BALES ARE USED, THEY ARE TO BE EMBEDDED INTO THE SOIL 4 INCHES. WHEN TIMBERS ARE TO BE USED, THE TIMBER SHALL EXTEND AT LEAST 18 INCHES INTO THE SOIL.
4. HAY OR STRAW BALES SHALL BE ANCHORED INTO THE SOIL USING 2"x2" STAKES DRIVEN THROUGHOUT THE BALES AT LEAST 18 INCHES INTO THE SOIL.
5. SEEDING, FERTILIZING AND MULCHING SHALL CONFORM TO THE RECOMMENDATIONS IN THE APPROPRIATE BMP.
6. STRUCTURES ARE TEMPORARY AND ARE TO BE REMOVED FROM THE CHANNEL WHEN THEIR USEFUL LIFE HAS EXPIRED, WHEN A SOLID STAND OF GRASS HAS GROWN AND STABILIZED.



NOTES:

1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" (15cm) DEEP X 6" (15cm) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30cm) PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30cm) APART ACROSS THE WIDTH OF THE BLANKET.
3. ROLL THE BLANKETS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2"-5" (5cm-12.5cm) OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.
5. CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5cm) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30cm) APART ACROSS ENTIRE BLANKET WIDTH. NOTE:

*IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15cm) MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.

SLOPE INSTALLATION

NOT TO SCALE

LAND USE OFFICE

DEC 11 2013

RECEIVED

EROSION CONTROL DETAILS

RAMSDELL WOODS SUBDIVISION
TAX MAP 233 LOT 29 & 30

RAMSDELL LANE, BARRINGTON, NEW HAMPSHIRE

PREPARED FOR:
TUCK REALTY CORP.
34 RAEDER DRIVE
STRATHAM, NH 03885

OWNER OF RECORD:
GARY & GEORGE RAMSDELL
27 RAMSDELL LANE
BARRINGTON, NH 03825

PREPARED BY:
BROWN ENGINEERING & SURVEYING LLC
683 FIRST NH TURNPIKE (RTE 4)
NORTHWOOD, NH 03261
Tel: (603) 677-7004
Tel: (603) 677-7014
www.brownengineeringllc.com

civil engineers, surveyors
construction managers

DECEMBER 11, 2013

SCALE: AS NOTED

REV.	DATE	DESCRIPTION	BY

JOB NO: 4714-03
SHEET 18 OF 20

TEST PIT #1
0–6" TOPSOIL 10YR 3/3 DARK BROWN
6"– 26" LOAMY SAND GRANULAR/FRIABLE 5YR 5/8 YELLOWSH RED
26"–62" SILT LOAM GRANULAR/FIRM IN PLACE 2.5Y 5/3 LIGHT OLIVE BROWN
ESHWT = 26"
ROOTS TO 26"
NO WATER
NO LEDGE
BOULDERS 12"–
PERC RATE = 6 MIN./INCH
DATE:9–18–13

TEST PIT #2
0–6" TOPSOIL 10YR 3/3 DARK BROWN
6"– 24" LOAMY SAND GRANULAR/FRIABLE 5YR 5/8 YELLOWSH RED
24"–60" SILT LOAM GRANULAR/FIRM IN PLACE 2.5Y 5/3 LIGHT OLIVE BROWN
ESHWT = 24"
ROOTS TO 24"
NO WATER
NO LEDGE
PERC RATE = 6 MIN./INCH
DATE:9–18–13

TEST PIT #3
0–6" TOPSOIL 10YR 3/3 DARK BROWN
6"– 24" FINE SANDY LOAM GRANULAR/FRIABLE 7.5YR 5/6 STRONG BROWN
26"–54" SILT LOAM GRANULAR/FIRM IN PLACE 2.5Y 5/3 LIGHT OLIVE BROWN
ESHWT = 24"
ROOTS TO 24"
NO WATER
NO LEDGE
BOULDERS 12"–24"
PERC RATE = 6 MIN./INCH
DATE:9–18–13

TEST PIT #4
0–6" TOPSOIL 10YR 3/3 DARK BROWN
6"– 26" FINE SANDY LOAM GRANULAR/FRIABLE 7.5YR 5/8 STRONG BROWN
26"–54" SILT LOAM GRANULAR/FIRM IN PLACE 2.5Y 5/3 LIGHT OLIVE BROWN
ESHWT = 26"
ROOTS TO 30"
NO WATER
NO LEDGE
BOULDERS 12"–
PERC RATE = 6 MIN./INCH
DATE:9–18–13

TEST PIT #5
0–6" TOPSOIL 10YR 3/3 DARK BROWN
6"– 28" FINE SANDY LOAM GRANULAR/FRIABLE 7.5YR 5/6 STRONG BROWN
28"–54" SILT LOAM GRANULAR/FIRM IN PLACE 2.5Y 5/3 LIGHT OLIVE BROWN
ESHWT = 28"
ROOTS TO 28"
NO WATER
NO LEDGE
PERC RATE = 6 MIN./INCH
DATE:9–18–13

TEST PIT #6
0–6" TOPSOIL 10YR 3/3 DARK BROWN
6"– 27" FINE SANDY LOAM GRANULAR/FRIABLE 7.5YR 5/8 STRONG BROWN
27"–54" SILT LOAM GRANULAR/FIRM IN PLACE 2.5Y 5/3 LIGHT OLIVE BROWN
ESHWT = 27"
ROOTS TO 27"
NO WATER
NO LEDGE
PERC RATE = 6 MIN./INCH
DATE:9–18–13

TEST PIT #7
0–6" TOPSOIL 10YR 3/3 DARK BROWN
6"– 22" FINE SANDY LOAM GRANULAR/FRIABLE 7.5YR 5/8 STRONG BROWN
26"–50" SILT LOAM GRANULAR/FIRM IN PLACE 2.5Y 5/3 LIGHT OLIVE BROWN
ESHWT = 22"
ROOTS TO 26"
NO WATER
NO LEDGE
PERC RATE = 6 MIN./INCH
DATE:9–18–13

TEST PIT #8
0–6" TOPSOIL 10YR 3/3 DARK BROWN
6"– 20" FINE SANDY LOAM GRANULAR/FRIABLE 7.5YR 5/8 STRONG BROWN
20"–50" SILT LOAM GRANULAR/FIRM IN PLACE 2.5Y 5/3 LIGHT OLIVE BROWN
ESHWT = 20"
ROOTS TO 26"
NO WATER
NO LEDGE
PERC RATE = 6 MIN./INCH
DATE:9–18–13

TEST PIT #9
0–6" TOPSOIL 10YR 3/3 DARK BROWN
6"– 19" FINE SANDY LOAM GRANULAR/FRIABLE 7.5YR 5/8 STRONG BROWN
19"–50" SILT LOAM GRANULAR/FIRM IN PLACE 2.5Y 5/3 LIGHT OLIVE BROWN
ESHWT = 19"
ROOTS TO 20"
NO WATER
NO LEDGE
PERC RATE = 12 MIN./INCH
DATE:9–18–13

TEST PIT #10
0–6" TOPSOIL 10YR 3/3 DARK BROWN
6"– 19" FINE SANDY LOAM GRANULAR/FRIABLE 7.5YR 5/8 STRONG BROWN
19"–50" SILT LOAM GRANULAR/FIRM IN PLACE 2.5Y 5/3 LIGHT OLIVE BROWN
ESHWT = 19"
ROOTS TO 20"
NO WATER
NO LEDGE
PERC RATE = 12 MIN./INCH
DATE:9–18–13

TEST PIT #11
0–6" TOPSOIL 10YR 3/3 DARK BROWN
6"– 20" FINE SANDY LOAM GRANULAR/FRIABLE 7.5YR 5/8 STRONG BROWN
20"–40" SILT LOAM GRANULAR/FIRM IN PLACE 2.5Y 5/3 LIGHT OLIVE BROWN
ESHWT = 20"
ROOTS TO 22"
NO WATER
NO LEDGE
REFUSAL AT 40"
PERC RATE = 10 MIN./INCH
DATE:9–18–13

TEST PIT #12
0–6" TOPSOIL 10YR 3/3 DARK BROWN
6"– 27" FINE SANDY LOAMY GRANULAR/FRIABLE 7.5YR 5/8 STRONG BROWN
27"–48" SILT LOAM GRANULAR/FIRM IN PLACE 2.5Y 5/3 LIGHT OLIVE BROWN
ESHWT = 27"
ROOTS TO 27"
NO WATER
NO LEDGE
PERC RATE = 10 MIN./INCH
DATE:9–18–13

TEST PIT #13
0–6" TOPSOIL 10YR 3/3 DARK BROWN
6"– 24" FINE SANDY LOAM GRANULAR/FRIABLE 7.5YR 5/8 STRONG BROWN
24"–48" SILT LOAM GRANULAR/FIRM IN PLACE 2.5Y 5/3 LIGHT OLIVE BROWN
ESHWT = 24"
ROOTS TO 22"
WATER SEEPING AT 15"
NO LEDGE
PERC RATE = 8 MIN./INCH
DATE:9–18–13

TEST PIT #14
0–6" TOPSOIL 10YR 3/3 DARK BROWN
6"– 26" LOAMY SAND GRANULAR/FRIABLE 7.5YR 5/8 STRONG BROWN
26"–50" SILT LOAM GRANULAR/FIRM IN PLACE 2.5Y 5/3 LIGHT OLIVE BROWN
ESHWT = 26"
ROOTS TO 22"
WATER SEEPING AT 24"
NO LEDGE
OERC RATE = 8 MIN./INCH
DATE:9–18–13

TEST PIT #15
0–6" TOPSOIL 10YR 3/3 DARK BROWN
6"– 28" FINE SANDY LOAM GRANULAR/FRIABLE 7.5YR 5/6 STRONG BROWN
28"–50" SILT LOAM GRANULAR/FIRM IN PLACE 2.5Y 5/3 LIGHT OLIVE BROWN
ESHWT = 28"
ROOTS TO 28"
NO WATER
NO LEDGE
PERC RATE = 8 MIN./INCH
DATE:9–18–13

TEST PIT #16
0–6" TOPSOIL 10YR 3/3 DARK BROWN
6"– 28" FINE SANDY LOAM GRANULAR/FRIABLE 7.5YR 5/8 STRONG BROWN
28"–48" SILT LOAM GRANULAR/FIRM IN PLACE 2.5Y 5/3 LIGHT OLIVE BROWN
ESHWT = 28"
ROOTS TO 28"
NO WATER
NO LEDGE
PERC RATE = 8 MIN./INCH
DATE:9–18–13

TEST PIT #17
0–6" TOPSOIL 10YR 3/3 DARK BROWN
6"– 28" FINE SANDY LOAM GRANULAR/FRIABLE 7.5YR 5/8 STRONG BROWN
28"–50" SILT LOAM GRANULAR/FIRM IN PLACE 2.5Y 5/3 LIGHT OLIVE BROWN
ESHWT = 28"
ROOTS TO 28"
NO WATER
NO LEDGE
BOULDERS
PERC RATE = 8 MIN./INCH
DATE:9–18–13

TEST PIT #18
0–6" TOPSOIL 10YR 3/3 DARK BROWN
6"– 24" LOAMY SAND GRANULAR/FRIABLE 7.5YR 5/8 STRONG BROWN
24"–50" SILT LOAM GRANULAR/FIRM IN PLACE 2.5Y 5/3 LIGHT OLIVE BROWN
ESHWT = 24"
ROOTS TO 24"
NO WATER
NO LEDGE
BOULDERS
PERC RATE = 8 MIN./INCH
DATE:9–18–13

TEST PIT #19
0–6" TOPSOIL 10YR 3/3 DARK BROWN
6"– 26" FINE SANDY LOAM GRANULAR/FRIABLE 7.5YR 5/8 STRONG BROWN
26"–62" SILT LOAM GRANULAR/FIRM IN PLACE 2.5Y 5/3 LIGHT OLIVE BROWN
ESHWT = 26"
ROOTS TO 26"
NO WATER
NO LEDGE
PERC RATE = 8 MIN./INCH
DATE:9–18–13

TEST PIT #20
0–6" TOPSOIL 10YR 3/3 DARK BROWN
6"– 30" FINE SANDY LOAM GRANULAR/FRIABLE 7.5YR 5/8 STRONG BROWN
30"–48" SILT LOAM GRANULAR/FIRM IN PLACE 2.5Y 5/3 LIGHT OLIVE BROWN
ESHWT = 30"
ROOTS TO 30"
NO WATER
NO LEDGE
PERC RATE = 8 MIN./INCH
DATE:9–18–13

TEST PIT #21
0–6" TOPSOIL 10YR 3/3 DARK BROWN
6"– 24" FINE SANDY LOAM GRANULAR/FRIABLE 7.5YR 5/8 STRONG BROWN
24"–48" SILT LOAM GRANULAR/FIRM IN PLACE 2.5Y 5/3 LIGHT OLIVE BROWN
ESHWT = 24"
ROOTS TO 24"
NO WATER
NO LEDGE
PERC RATE = 8 MIN./INCH
DATE:9–18–13

TEST PIT #22
0–6" TOPSOIL 10YR 3/3 DARK BROWN
6"– 30" FINE SANDY LOAM GRANULAR/FRIABLE 7.5YR 5/8 STRONG BROWN
30"–48" SILT LOAM GRANULAR/FIRM IN PLACE 2.5Y 5/3 LIGHT OLIVE BROWN
ESHWT = 30"
ROOTS TO 30"
NO WATER
NO LEDGE
PERC RATE = 8 MIN./INCH
DATE:9–18–13

TEST PIT #23
0–6" TOPSOIL 10YR 3/3 DARK BROWN
6"– 39" FINE SANDY LOAM GRANULAR/FRIABLE 7.5YR 5/8 STRONG BROWN
39"–48" SILT LOAM GRANULAR/FIRM IN PLACE 2.5Y 5/3 LIGHT OLIVE BROWN
ESHWT = 39"
ROOTS TO 39"
NO WATER
NO LEDGE
PERC RATE = 8 MIN./INCH
DATE:9–18–13

TEST PIT #24
0–6" TOPSOIL 10YR 3/3 DARK BROWN
6"– 27" FINE SANDY LOAM GRANULAR/FRIABLE 7.5YR 5/8 STRONG BROWN
27"–50" SILT LOAM GRANULAR/FIRM IN PLACE 2.5Y 5/3 LIGHT OLIVE BROWN
ESHWT = 27"
ROOTS TO 27"
NO WATER
NO LEDGE
PERC RATE = 8 MIN./INCH
DATE:9–18–13

TEST PIT #25
0–6" TOPSOIL 10YR 3/3 DARK BROWN
6"– 30" FINE SANDY LOAM GRANULAR/FRIABLE 10YR 5/8 YELLOWSH BROWN
30"–48" SILT LOAM GRANULAR/FIRM IN PLACE 2.5Y 5/3 LIGHT OLIVE BROWN
ESHWT = 30"
ROOTS TO 30"
NO WATER
NO LEDGE
PERC RATE = 8 MIN./INCH
DATE:9–18–13

TEST PIT #26
0–6" TOPSOIL 10YR 3/3 DARK BROWN
6"– 24" FINE LOAMY SAND GRANULAR/FRIABLE 10YR 5/8 YELLOWSH BROWN
24"–50" SILT LOAM GRANULAR/FIRM IN PLACE 2.5Y 5/3 LIGHT OLIVE BROWN
ESHWT = 24"
ROOTS TO 24"
NO WATER
NO LEDGE
PERC RATE = 8 MIN./INCH
DATE:9–18–13

TEST PIT #27
0–6" TOPSOIL 10YR 3/3 DARK BROWN
6"– 27" FINE SANDY LOAM GRANULAR/FRIABLE 7.5YR 5/6 STRONG BROWN
27"–50" SILT LOAM GRANULAR/FIRM IN PLACE 2.5Y 5/3 LIGHT OLIVE BROWN
ESHWT = 27"
ROOTS TO 27"
NO WATER
NO LEDGE
PERC RATE = 8 MIN./INCH
DATE:9–18–13

TEST PIT #28
0–6" TOPSOIL 10YR 3/3 DARK BROWN
6"– 24" FINE SANDY LOAM GRANULAR/FRIABLE 7.5YR 5/6 STRONG BROWN
24"–50" SILT LOAM GRANULAR/FIRM IN PLACE 2.5Y 5/3 LIGHT OLIVE BROWN
ESHWT = 24"
ROOTS TO 24"
NO WATER
NO LEDGE
PERC RATE = 8 MIN./INCH
DATE:9–18–13

TEST PIT #29
0–6" TOPSOIL 10YR 3/3 DARK BROWN
6"– 27" FINE LOAMY SAND GRANULAR/FRIABLE 7.5YR 5/6 STRONG BROWN
27"–50" SILT LOAM GRANULAR/FIRM IN PLACE 2.5Y 5/3 LIGHT OLIVE BROWN
ESHWT = 27"
ROOTS TO 27"
NO WATER
NO LEDGE
PERC RATE = 8 MIN./INCH
DATE:9–18–13

TEST PIT #30
0–6" TOPSOIL 10YR 3/3 DARK BROWN
6"– 36" FINE SANDY LOAM GRANULAR/FRIABLE 7.5YR 5/6 STRONG BROWN
36"–48" SILT LOAM GRANULAR/FIRM IN PLACE 2.5Y 5/3 LIGHT OLIVE BROWN
ESHWT = 36"
ROOTS TO 36"
NO WATER
NO LEDGE
PERC RATE = 8 MIN./INCH
DATE:9–18–13

TEST PIT #31
0–6" TOPSOIL 10YR 3/3 DARK BROWN
6"– 24" FINE SANDY LOAM GRANULAR/FRIABLE 7.5YR 5/8 STRONG BROWN
24"–48" SILT LOAM GRANULAR/FIRM IN PLACE 2.5Y 5/3 LIGHT OLIVE BROWN
ESHWT = 24"
ROOTS TO 24"
NO WATER
NO LEDGE
PERC RATE = 6 MIN./INCH
DATE:9–18–13

TEST PIT #32
0–6" TOPSOIL 10YR 3/3 DARK BROWN
6"– 26" FINE SANDY LOAM GRANULAR/FRIABLE 7.5YR 5/8 STRONG BROWN
26"–60" SILT LOAM GRANULAR/FIRM IN PLACE 2.5Y 5/3 LIGHT OLIVE BROWN
ESHWT = 26"
ROOTS TO 26"
NO WATER
NO LEDGE
PERC RATE = 8 MIN./INCH
DATE:9–18–13

TEST PIT #33
0–6" TOPSOIL 10YR 3/3 DARK BROWN
6"– 19" FINE SANDY LOAM GRANULAR/FRIABLE 7.5YR 5/8 STRONG BROWN
19"–42" SILTY SAND GRANULAR/FIRM IN PLACE 2.5Y 5/3 LIGHT OLIVE BROWN
ESHWT = 19"
ROOTS TO 19"
NO WATER
NO LEDGE
OERC RATE = 10 MIN./INCH
DATE:9–18–13

TEST PIT #34
0–6" TOPSOIL 10YR 3/3 DARK BROWN
6"– 34" FINE SANDY LOAM GRANULAR/FRIABLE 7.5YR 5/8 STRONG BROWN
34"–58" SILTY SAND GRANULAR/FIRM IN PLACE 2.5Y 5/3 LIGHT OLIVE BROWN
ESHWT = 34"
ROOTS TO 34"
NO WATER
NO LEDGE
PERC RATE = 10 MIN./INCH
DATE:9–18–13

TEST PIT #35
0–6" TOPSOIL 10YR 3/3 DARK BROWN
6"– 30" FINE SANDY LOAM GRANULAR/FRIABLE 7.5YR 5/8 STRONG BROWN
30"–48" SILT LOAM GRANULAR/FIRM IN PLACE 2.5Y 5/3 LIGHT OLIVE BROWN
ESHWT = 30"
ROOTS TO 30"
NO WATER
PERC RATE = 8 MIN./INCH
DATE:9–18–13

TEST PIT #36
0–6" TOPSOIL 10YR 3/3 DARK BROWN
6"– 23" FINE SANDY LOAM GRANULAR/FRIABLE 7.5YR 5/8 STRONG BROWN
23"–42" SILT LOAM GRANULAR/FIRM IN PLACE 2.5Y 5/3 LIGHT OLIVE BROWN
ESHWT = 23"
ROOTS TO 23"
NO WATER
NO LEDGE
BOULDERS
OERC RATE = 8 MIN./INCH
DATE:9–18–13

TEST PIT #37
0–6" TOPSOIL 10YR 3/3 DARK BROWN
6"– 27" FINE SANDY LOAM GRANULAR/FRIABLE 7.5YR 5/8 STRONG BROWN
27"–50" SILT LOAM GRANULAR/FIRM IN PLACE 2.5Y 5/3 LIGHT OLIVE BROWN
ESHWT = 27"
ROOTS TO 27"
NO WATER
NO LEDGE
PERC RATE = 8 MIN./INCH
DATE:9–18–13

TEST PIT #38
0–6" TOPSOIL 10YR 3/3 DARK BROWN
6"– 18" FINE LOAMY SAND GRANULAR/FRIABLE 7.5YR 5/8 STRONG BROWN
18"–48" SILT LOAM GRANULAR/FIRM IN PLACE 2.5Y 5/3 LIGHT OLIVE BROWN
ESHWT = 18"
ROOTS TO 18"
NO WATER
NO LEDGE
PERC RATE = 8 MIN./INCH
DATE:9–18–13

TEST PIT #50
0–6" TOPSOIL 10YR 3/3 DARK BROWN
6"– 28" FINE LOAMY SAND GRANULAR/FRIABLE 7.5YR 5/8 STRONG BROWN
28"–52" SILT LOAM GRANULAR/FIRM IN PLACE 2.5Y 5/3 LIGHT OLIVE BROWN
ESHWT = 28"
ROOTS TO 28"
NO WATER
NO LEDGE
PERC RATE = 8 MIN./INCH
DATE:12–10–13

TEST PIT #51
0–6" TOPSOIL 10YR 3/3 DARK BROWN
6"– 30" FINE LOAMY SAND GRANULAR/FRIABLE 7.5YR 5/8 STRONG BROWN
30"–54" SILT LOAM GRANULAR/FIRM IN PLACE 2.5Y 5/3 LIGHT OLIVE BROWN
ESHWT = 30"
ROOTS TO 30"
NO WATER
NO LEDGE
PERC RATE = 8 MIN./INCH
DATE:12–10–13

TEST PIT #52
0–6" TOPSOIL 10YR 3/3 DARK BROWN
6"– 30" FINE LOAMY SAND GRANULAR/FRIABLE 7.5YR 5/8 STRONG BROWN
30"–54" SILT LOAM GRANULAR/FIRM IN PLACE 2.5Y 5/3 LIGHT OLIVE BROWN
ESHWT = 30"
ROOTS TO 30"
NO WATER
NO LEDGE
PERC RATE = 8 MIN./INCH
DATE:12–10–13

TEST PIT #53
0–6" TOPSOIL 10YR 3/3 DARK BROWN
6"– 30" FINE LOAMY SAND GRANULAR/FRIABLE 7.5YR 5/8 STRONG BROWN
30"–54" SILT LOAM GRANULAR/FIRM IN PLACE 2.5Y 5/3 LIGHT OLIVE BROWN
ESHWT = 30"
ROOTS TO 30"
NO WATER
NO LEDGE
PERC RATE = 8 MIN./INCH
DATE:12–10–13

TEST PIT #54
0–6" TOPSOIL 10YR 3/3 DARK BROWN
6"– 30" FINE LOAMY SAND GRANULAR/FRIABLE 7.5YR 5/8 STRONG BROWN
30"–52" SILT LOAM GRANULAR/FIRM IN PLACE 2.5Y 5/3 LIGHT OLIVE BROWN
ESHWT = 30"
ROOTS TO 30"
NO WATER
NO LEDGE (BOULDERS)
PERC RATE = 8 MIN./INCH
DATE: 12–10–13

TEST PIT #55
0–6" TOPSOIL 10YR 3/3 DARK BROWN
6"– 30" FINE LOAMY SAND GRANULAR/FRIABLE 7.5YR 5/8 STRONG BROWN
30"–52" SILT LOAM GRANULAR/FIRM IN PLACE 2.5Y 5/3 LIGHT OLIVE BROWN
ESHWT = 30"
ROOTS TO 30"
NO WATER
NO LEDGE
PERC RATE = 8 MIN./INCH
DATE:12–10–13

TEST PIT #56
0–6" TOPSOIL 10YR 3/3 DARK BROWN
6"– 36" FINE LOAMY SAND GRANULAR/FRIABLE 7.5YR 5/8 STRONG BROWN
36"–60" SILT LOAM GRANULAR/FIRM IN PLACE 2.5Y 5/3 LIGHT OLIVE BROWN
ESHWT = 36"
ROOTS TO 36"
NO WATER
NO LEDGE (BOULDERS)
PERC RATE = 8 MIN./INCH
DATE:12–10–13

TEST PIT #57
0–6" TOPSOIL 10YR 3/3 DARK BROWN
6"– 36" FINE LOAMY SAND GRANULAR/FRIABLE 7.5YR 5/8 STRONG BROWN
36"–54" SILT LOAM GRANULAR/FIRM IN PLACE 2.5Y 5/3 LIGHT OLIVE BROWN
ESHWT = 36"
ROOTS TO 36"
NO WATER
NO LEDGE
PERC RATE = 8 MIN./INCH
DATE:12–10–13

TEST PIT #58
0–6" TOPSOIL 10YR 3/3 DARK BROWN
6"– 30" FINE LOAMY SAND GRANULAR/FRIABLE 7.5YR 5/8 STRONG BROWN
30"–54" SILT LOAM GRANULAR/FIRM IN PLACE 2.5Y 5/3 LIGHT OLIVE BROWN
ESHWT = 30"
ROOTS TO 30"
NO WATER
NO LEDGE
PERC RATE = 8 MIN./INCH
DATE:12–10–13

New Hampshire Designer of Subsurface Disposal Systems
Department of Environmental Services

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TEST PIT LOGS

RAMSDELL WOODS SUBDIVISION
TAX MAP 233 LOT 29 & 30

RAMSDELL LANE, BARRINGTON, NEW HAMPSHIRE

PREPARED FOR:
TUCK REALTY CORP.
34 RAEDER DRIVE
STRATHAM, NH 03885

OWNER OF RECORD:
GARY & GEORGE RAMSDELL
27 RAMSDELL LANE
BARRINGTON, NH 03825

PREPARED BY:

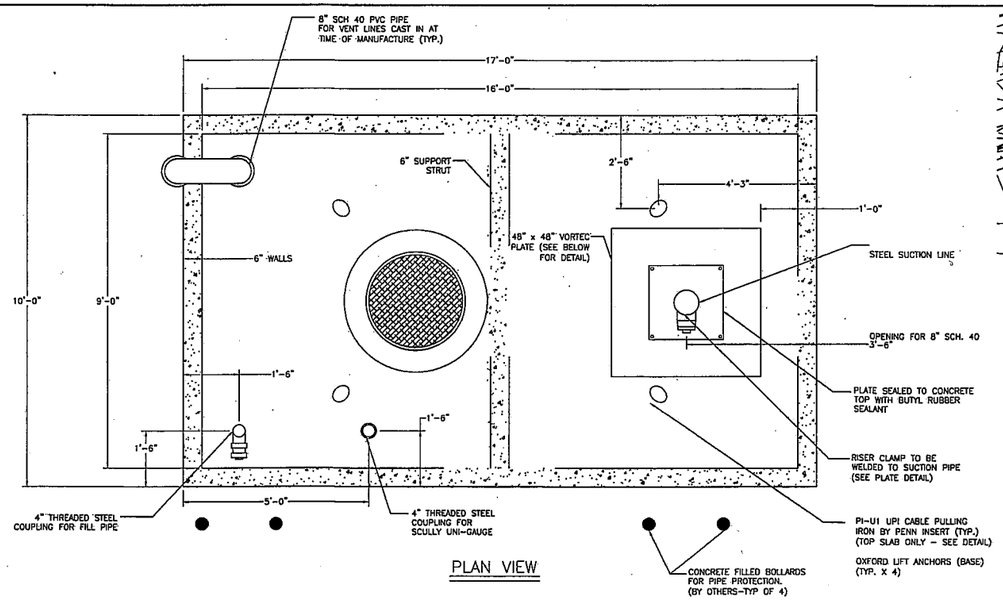
BROWN ENGINEERING & SURVEYING LLC
683 FIRST NH TURNPIKE (RTE 4)
NORTHWOOD, NH 03261
Tel: (603) 677–7004
Tel: (603) 677–7014
www.brownengineeringllc.com
civil engineers, surveyors
construction managers

DECEMBER 11, 2013

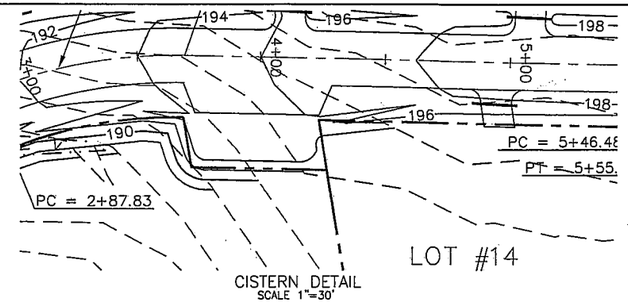
SCALE: AS NOTED

REV.	DATE	DESCRIPTION	BY

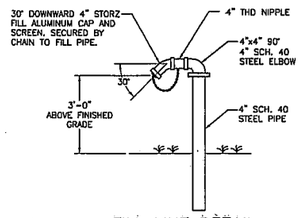
JOB NO: 4714–03
SHEET 19 OF 20



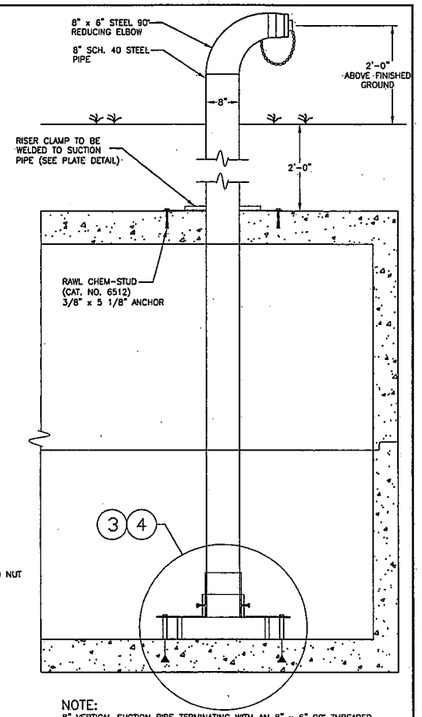
PLAN VIEW



CISTERN DETAIL
SCALE 1"=30'

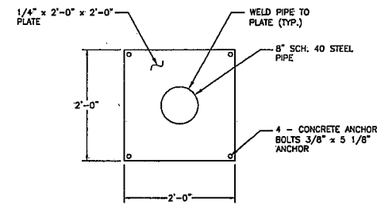


FILL LINE DETAIL
(NOT TO SCALE)

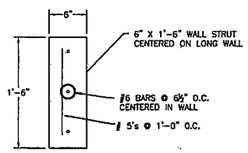


NOTE:
8" VERTICAL SUCTION PIPE TERMINATING WITH AN 8" x 6" 90° THREADED REDUCING ELBOW AND A 6" NST OR 4 ½" NST NOZZLE AND CAP. THE SUCTION PIPE CONNECTION SHOULD BE 20" - 24" ABOVE THE LEVEL OF THE ROAD OR SHOULDER WHERE THE VEHICLE WHEELS WILL BE LOCATED WHEN CISTERN IS IN USE.

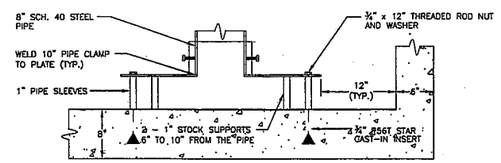
SUCTION ASSEMBLY DETAIL
SCALE: 1/2 = 1'-0"



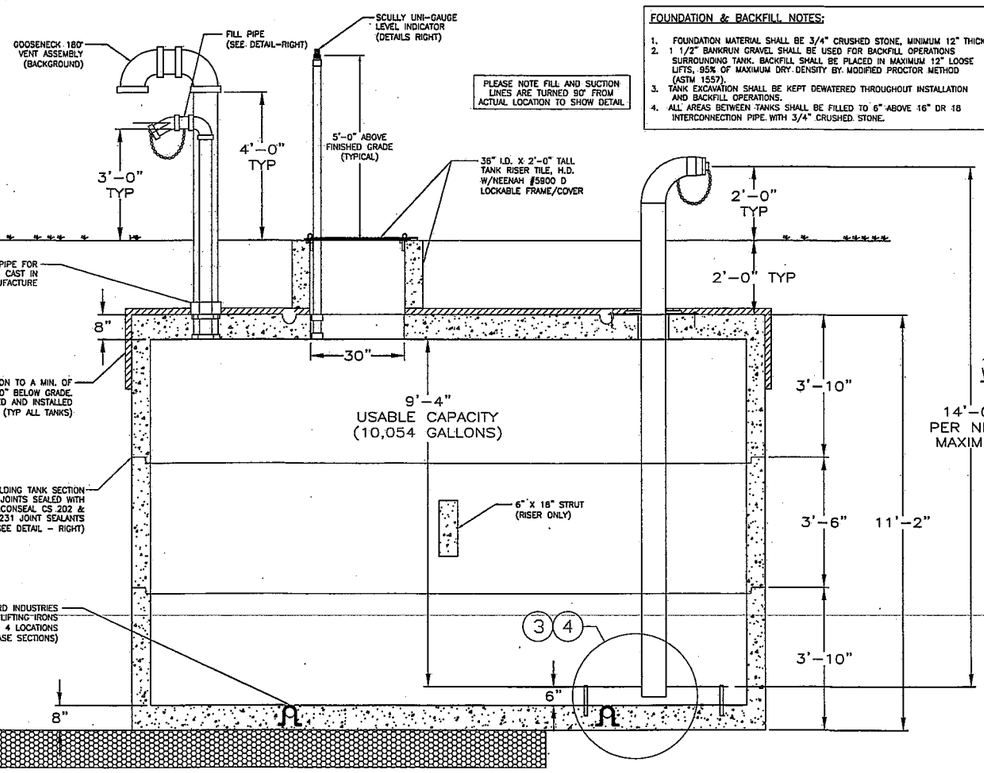
RISER CLAMP PLATE DETAIL
SCALE: 1 1/2" = 1'-0"



STRUT REINFORCING



ANTIVORTEX PLATE
SCALE: 3/4" = 1'-0"

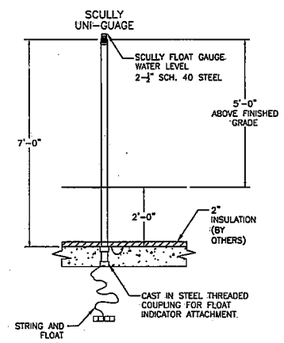


PLEASE NOTE FILL AND SUCTION LINES ARE TURNED 90° FROM ACTUAL LOCATION TO SHOW DETAIL

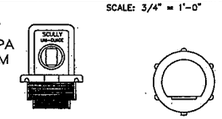
FOUNDATION & BACKFILL NOTES:

1. FOUNDATION MATERIAL SHALL BE 3/4" CRUSHED STONE, MINIMUM 12" THICK.
2. 1 1/2" BANKRUN GRAVEL SHALL BE USED FOR BACKFILL OPERATIONS SURROUNDING TANK. BACKFILL SHALL BE PLACED IN MAXIMUM 12" LOOSE LIFTS, 95% OF MAXIMUM DRY DENSITY BY MODIFIED PROCTOR METHOD (ASTM 1557).
3. TANK EXCAVATION SHALL BE KEPT DEWATERED THROUGHOUT INSTALLATION AND BACKFILL OPERATIONS.
4. ALL AREAS BETWEEN TANKS SHALL BE FILLED TO 6" ABOVE 16" OR 18 INTERCONNECTION PIPE WITH 3/4" CRUSHED STONE.

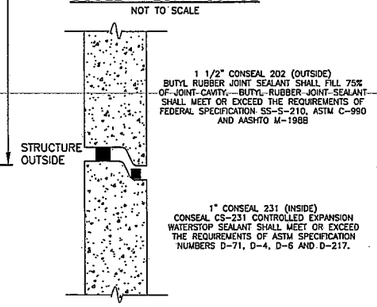
PLAN VIEW



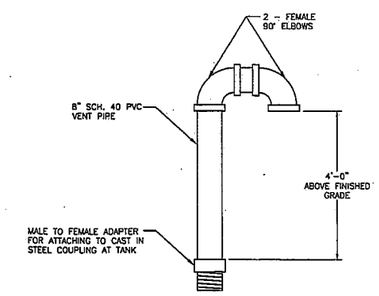
WATER LEVEL FLOAT INDICATOR DETAIL
SCALE: 3/4" = 1'-0"



SCULLY FLOAT GUAGE
NOT TO SCALE

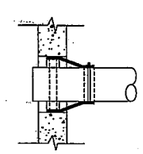


CONSEAL JOINT SEALANTS
NOT TO SCALE



NOTE:
THE BUG SCREEN TO BE PLACED IN THE VENT PIPE. THE FULL INSIDE DIAMETER OF PIPE IS NEEDED.

VENT PIPE DETAIL
SCALE: 1/2" = 1'-0"



FLEXIBLE SLEEVE. PIPE CONNECTION RUBBER ELEMENT SHALL MEET OR EXCEED ALL REQUIREMENTS OF ASTM C-923 FOR "RESILIENT CONNECTORS BETWEEN CONCRETE MANHOLE STRUCTURES & PIPES".

INTERNAL EXPANSION BAND AND EXTERNAL PIPE CLAMP SHALL BE CONSTRUCTED OF SERIES 304 AND SERIES 305 NON-MAGNETIC STAINLESS STEEL

FLEXIBLE SLEEVE PIPE CONNECTIONS

NOTES:
1. CONCRETE: 5,000 PSI @ 28 DAYS. CEMENT TO BE TYPE III PER ASTM C-150.
2. REINFORCING TO BE PER ASTM A-615, GRADE 60 DEFORMED BILLET STEEL WITH 1" MINIMUM COVER UNLESS NOTED OTHERWISE.
3. REINFORCED TO MEET OR EXCEED REQUIREMENTS OF AASHTO HS20-44. COVER: 1' - 5'.
4. ALL SECTION JOINTS SEALED WITH BUTYL RUBBER JOINT SEALANT PER ASTM C-990 & AASHTO M-198.
5. EXTERIOR TO BE ASPHALT COATED WITH SEABOARD LN-12 ASPHALT GILSONITE PAINT THAT MEETS THE REQUIREMENTS OF FEDERAL SPECIFICATION TT-C-494, TYPES I, II & III.
6. PENN INSERT AND OXFORD LIFTING ANCHORS PROVIDED FOR LIFTING, HANDLING AND SETTING PURPOSES AND SHALL BE LOCATED AS SHOWN ON THE DRAWING.
7. HEAVIEST SECTION TO WEIGH: 30,416#.

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DETAIL PROVIDED BY:
MICHIE CORPORATION, INC.
11 BUXTON INDUSTRIAL DRIVE-PO BOX 870
HENNIKER, NH 03242
PHONE: 603-428-3218
FAX: 603-428-7426

CISTERN DETAILS

RAMSDELL WOODS SUBDIVISION
TAX MAP 233 LOT 29 & 30
RAMSDELL LANE, BARRINGTON, NEW HAMPSHIRE

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