

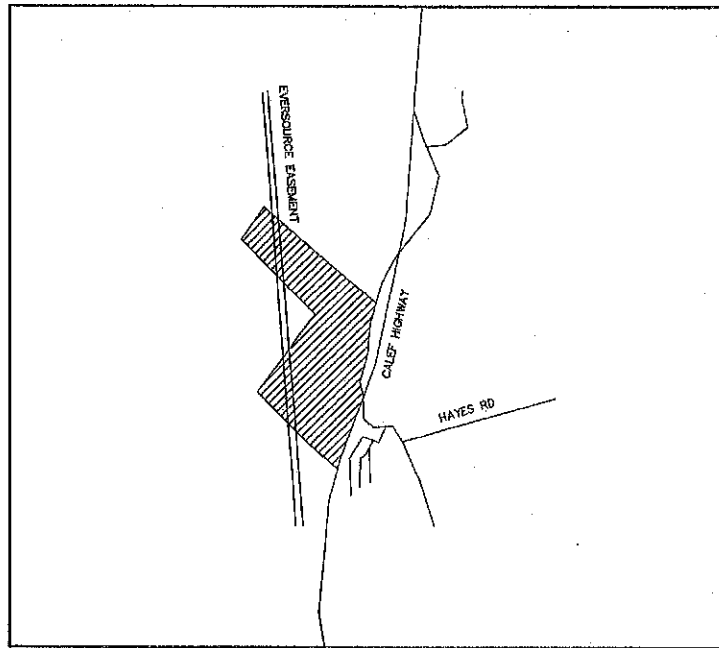
EXCAVATION PROJECT "HARD ROCK EXCAVATION"

TAX MAP 263, LOTS 13.1, 13.2, 18, 19

PIERCE RD & CALEF HIGHWAY, BARRINGTON NH

SHEET INDEX

CS	COVER SHEET
S1 - S3	EXISTING CONDITIONS
C2	OVERALL SITE PLAN
C2-1	SITE PLAN
C3	OVERALL GRADING PLAN
C3-1 - 2	GRADING PLANS
P1-A - B	PHASE 1 - GRADING PLANS
P2	PHASE 2 - GRADING PLAN
P3	PHASE 3 - GRADING PLAN
PP1-PP3	ROAD 'A' - PLAN AND PROFILE
PP4	ROAD 'B' - PLAN AND PROFILE
D1	DETAIL SHEETS
E1	EROSION AND SEDIMENT CONTROL DETAILS



LOCUS MAP
SCALE 1" = 2000'

PERMITS

TYPE OF PERMIT	STATUS	TYPE OF PERMIT	STATUS
NHDES ALTERATION OF TERRAIN PERMIT: NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES - WATER DIVISION 29 HAZEN DRIVE, P.O. BOX 95 CONCORD, NEW HAMPSHIRE 03302-0095 (603) 271-3503 RESPONSIBLE CONSULTANT: JONES & BEACH ENGINEERS, INC.	SUBMITTED: PERMIT NO. DATED: EXPIRATION:	BARRINGTON SITE PLAN APPROVAL: TOWN OF BARRINGTON PLANNING BOARD 333 CALEF HIGHWAY PO BOX 660 BARRINGTON, NEW HAMPSHIRE 03825 (603) 664-6798 RESPONSIBLE CONSULTANT: JONES & BEACH ENGINEERS, INC.	SUBMITTED: PERMIT NO. DATED: EXPIRATION:
NHDOT DRIVEWAY PERMIT: NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION, DISTRICT SIX P.O. BOX 740 DURHAM, NEW HAMPSHIRE 03824 (603) 868-1133 RESPONSIBLE CONSULTANT: JONES & BEACH ENGINEERS, INC.	SUBMITTED: PERMIT NO. DATED: EXPIRATION:		
NHDES WETLAND PERMIT: NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES - WETLANDS BUREAU 29 HAZEN DRIVE, P.O. BOX 95 CONCORD, NEW HAMPSHIRE 03302 (603) 271-2147 RESPONSIBLE CONSULTANT: JONES & BEACH ENGINEERS, INC.	SUBMITTED: PERMIT NO. DATED: EXPIRATION:		

USEPA NPDES PHASE II CONSTRUCTION GENERAL PERMIT, NOTICE OF INTENT (NOI), AND NOTICE OF TERMINATION (NOT) TO BE FILED IN ACCORDANCE WITH FEDERAL AND LOCAL REGULATIONS PRIOR TO AND FOLLOWING CONSTRUCTION:
EPA STORMWATER NOTICE PROCESSING CENTER
MAIL CODE 4203M,
US EPA
1200 PENNSYLVANIA AVENUE, NW
WASHINGTON, DC 20460
RESPONSIBLE CONSULTANT:
JONES & BEACH ENGINEERS, INC.

APPLICANT / DEVELOPER
HARD ROCK DEVELOPMENT, LLC
PO BOX 23760
SEABROOK, NH 03874
(603) 418-1518
CONTACT: ARLEIGH GREENE

OWNER OF RECORD
LOTS 13.2, 18
LIBERTY INTL TRUCK OF BARRINGTON
1400 S. WILLOW ST.
MANCHESTER, NH 03103
(603) 246-5453

ELECTRIC
EVERSOURCE
74 OLD DOVER ROAD
ROCHESTER, NH 03867
(603) 332-4227

CIVIL ENGINEER
JONES & BEACH ENGINEERS, INC.
85 PORTSMOUTH AVENUE
PO BOX 219
STRATHAM, NH 03885
(603) 772-4748
CONTACT: BARRY GIER
EMAIL: BGIER@JONESANDBEACH.COM

LOTS 13.1, 19
TOWN OF BARRINGTON
PO BOX 660
333 CALEF HIGHWAY
BARRINGTON, NH 03825
(603) 664-5798

TELEPHONE
FAIRPOINT COMMUNICATIONS
100 TRI CITY ROAD
SOMERWORTH, NH 03878
ATTN: DAVE KESTNER
(603) 743-1114

SURVEYOR
DOUCET SURVEY INC.
102 KENT PL
NEWMARKET, NH 03857
(603) 659-6560

WETLAND CONSULTANT
JONES & BEACH ENGINEERS, INC.
85 PORTSMOUTH AVE
PO BOX 219
STRATHAM, NH 03885
(603) 772-4746
CONTACT: CHRIS ALBERT, CWS

CABLE TV
METROCAST CABLEVISION
21 JARVIS AVE.
ROCHESTER, NH 03868
(603) 335-4106

PROJECT PARCEL TOWN OF BARRINGTON TAX MAP 263, LOTS 13.1, 13.2, 18, 19
OWNERS LOTS 13.2 & 18 LIBERTY INTERNATIONAL TRUCK OF BARRINGTON 1400 S. WILLOW STREET MANCHESTER, NH 03101 BK 3977, PG 861 (LOT 18) BK 4455, PG 687 (LOT 13.2)
TOWN OF BARRINGTON P.O. BOX 660 (CALEF HIGHWAY) BARRINGTON, NH 03825 BK 1602, PG 0658 (LOT 13.1) BK 4455, PG 685 (LOT 19)
APPLICANT/DEVELOPER HARD ROCK DEVELOPMENT, LLC PO BOX 23760 SEABROOK, NH 03874
TOTAL PROJECT AREA 6,031,696 ± SQ. FT. 138.24 ACRES

LAND USE OFFICE
MAY 09 2018
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APPROVED - TOWN, STATE
PLANNING BOARD

DATE: _____

F:\CADD\MASTER STANDARD\DWG\LAYOUTS.dwg 2/16/2017 12:26:50 PM EST

Design: BWG	Draft: GDR	Date: 05/07/2018
Checked: BWG	Scale: AS NOTED	Project No.: 17082
Drawing Name: 17082-PLAN.dwg		

THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM JONES & BEACH ENGINEERS, INC. (JBE). ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO JBE.



REV.	DATE	REVISION	BY
0	05/07/18	ISSUED FOR REVIEW	BWG

Designed and Produced In NH

J/B Jones & Beach Engineers, Inc.

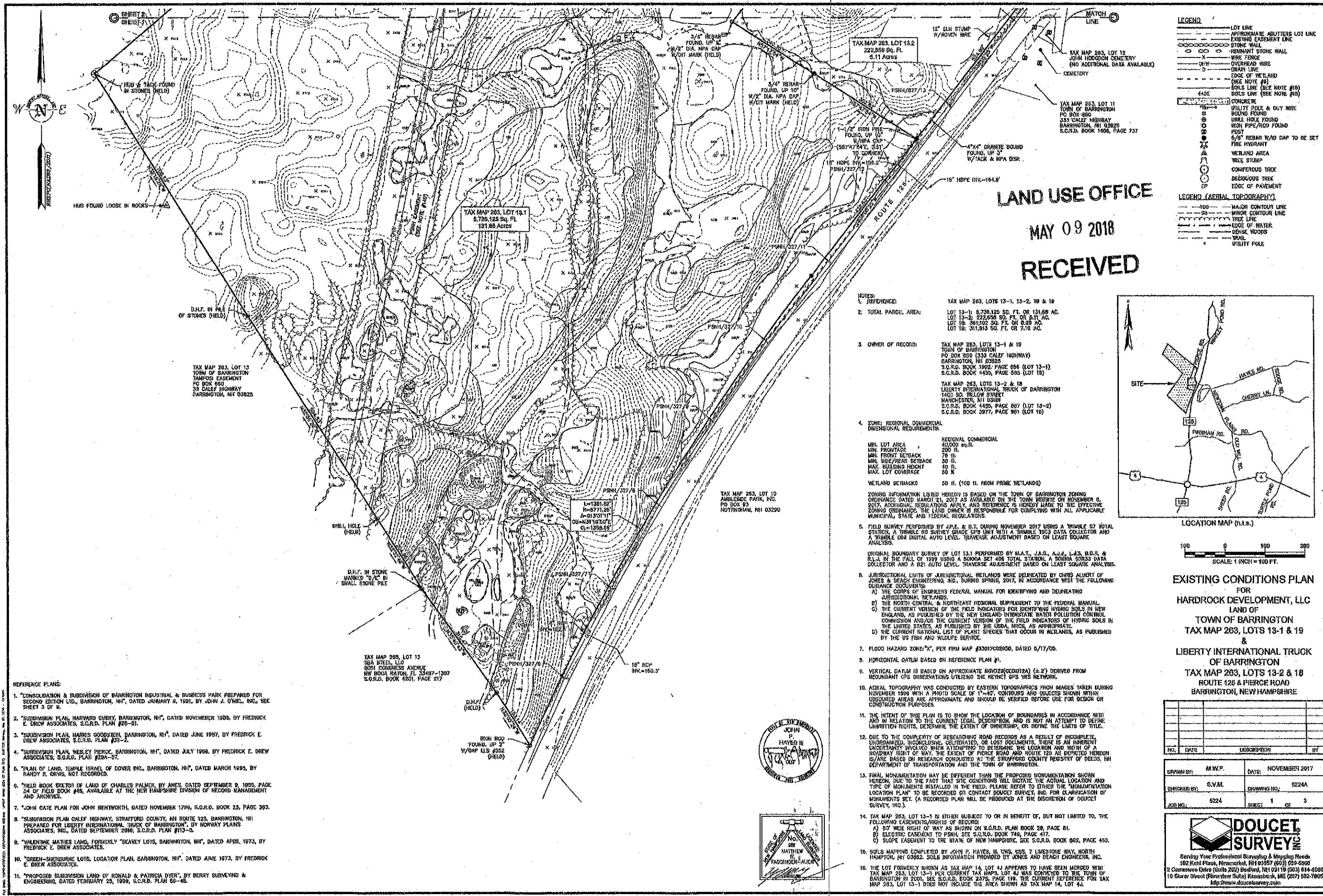
Civil Engineering Services

95 Portsmouth Ave. PO Box 219 Stratham, NH 03885 603-772-4748 FAX: 603-772-0227 E-MAIL: JBE@JONESANDBEACH.COM

Plan Name:	COVER SHEET
Project:	HARD ROCK EXCAVATION PIERCE RD & CALEF HIGHWAY, BARRINGTON, NH
Owner of Record:	LIBERTY INTL TRUCK OF BARRINGTON TOWN OF BARRINGTON

DRAWING No.	CS
SHEET 1 OF 16	JBE PROJECT NO. 17082

HARD ROCK EXCAVATION, BARRINGTON, NH
JOB # 17082 REVISION 0, 05/07/18



- LEGEND**
- LOT LINE
 - - - - - APPROXIMATE ADJUTERS LOT LINE
 - EXISTING EASEMENT LINE
 - STONE WALL
 - REINFORCED STONE WALL
 - WIRE FENCE
 - OVERHEAD WIRE
 - DRAIN LINE
 - EDGE OF WETLAND (SEE NOTE #3)
 - SOILS LINE (SEE NOTE #18)
 - SOILS LINE (SEE NOTE #18)
 - CONCRETE UTILITY POLE & GUY WIRE
 - SOUND FOUND
 - DRILL HOLE FOUND
 - IRON PIPE/ROD FOUND
 - POST
 - 5/8" REBAR W/NO CAP TO BE SET
 - FIRE HYDRANT
 - WETLAND AREA
 - TREE STUMP
 - CONIFEROUS TREE
 - DECIDUOUS TREE
 - EDGE OF PAVEMENT
- LEGEND (AERIAL TOPOGRAPHY)**
- MAJOR CONTOUR LINE
 - MINOR CONTOUR LINE
 - TREE LINE
 - EDGE OF WATER
 - DENSE WOODS
 - TRAIL
 - UTILITY POLE

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TAX MAP 263, LOT 13
 TOWN OF BARRINGTON
 TAMPOSI EASEMENT
 PO BOX 660
 333 CALEF HIGHWAY
 BARRINGTON, NH 03825

TAX MAP 263, LOT 13.1
 8,730,125 SQ. FT.
 191.85 ACRES

NOTES:

1. REFERENCE: TAX MAP 263, LOTS 13-1, 13-2, 18 & 19
 LOT 13-1: 8,730,125 SQ. FT. OR 191.85 AC.
 LOT 13-2: 222,858 SQ. FT. OR 5.11 AC.
 LOT 18: 361,102 SQ. FT. OR 8.29 AC.
 LOT 19: 311,813 SQ. FT. OR 7.10 AC.

2. TOTAL PARCEL AREA:
 TAX MAP 263, LOTS 13-1 & 19
 TOWN OF BARRINGTON
 PO BOX 660 (333 CALEF HIGHWAY)
 BARRINGTON, NH 03825
 S.C.R.D. BOOK 1902, PAGE 656 (LOT 13-1)
 S.C.R.D. BOOK 1458, PAGE 695 (LOT 19)

3. OWNER OF RECORD:
 TAX MAP 263, LOTS 13-2 & 18
 LIBERTY INTERNATIONAL TRUCK OF BARRINGTON
 1400 SO. YELLOW STREET
 MANCHESTER, NH 03101
 S.C.R.D. BOOK 1458, PAGE 697 (LOT 13-2)
 S.C.R.D. BOOK 3977, PAGE 901 (LOT 18)

4. ZONE: REGIONAL COMMERCIAL
 DIMENSIONAL REQUIREMENTS:
 MIN. LOT AREA: 40,000 SQ. FT.
 MIN. FRONTAGE: 200 FT.
 MIN. FRONT SETBACK: 75 FT.
 MIN. SIDE/REAR SETBACK: 30 FT.
 MAX. BUILDING HEIGHT: 40 FT.
 MAX. LOT COVERAGE: 50 %

WETLAND SETBACKS: 50 FT. (100 FT. FROM PRIME WETLANDS)

ZONING INFORMATION LISTED HEREON IS BASED ON THE TOWN OF BARRINGTON ZONING ORDINANCE DATED MARCH 21, 2017 AS AVAILABLE ON THE TOWN WEBSITE ON NOVEMBER 8, 2017. ADDITIONAL REGULATIONS APPLY, AND REFERENCE IS HEREBY MADE TO THE EFFECTIVE ZONING ORDINANCE. THE LAND OWNER IS RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE MUNICIPAL, STATE AND FEDERAL REGULATIONS.

5. FIELD SURVEY PERFORMED BY J.P.E. & B.T. DURING NOVEMBER 2017 USING A TRIMBLE S7 TOTAL STATION, A TRIMBLE R6 SURVEY GRADE GPS UNIT WITH A TRIMBLE R203 DATA COLLECTOR AND A TRIMBLE DMI DIGITAL AUTO LEVEL. TRAVERSE ADJUSTMENT BASED ON LEAST SQUARE ANALYSIS.

ORIGINAL BOUNDARY SURVEY OF LOT 13.1 PERFORMED BY M.A.T., J.A.B., A.M.V., L.J.S. D.S.R. & R.L.A. IN THE FALL OF 1999 USING A SOKKIA SET 400 TOTAL STATION, A SOKKIA SDR33 DATA COLLECTOR AND A B21 AUTO LEVEL. TRAVERSE ADJUSTMENT BASED ON LEAST SQUARE ANALYSIS.

6. JURISDICTIONAL LIMITS OF JURISDICTIONAL WETLANDS WERE DELINEATED BY CHRIS ALBERT OF JONES & BEACH ENGINEERING, INC., DURHAM SPRING, 2017, IN ACCORDANCE WITH THE FOLLOWING GUIDANCE DOCUMENTS:
 A) THE CORPUS OF ENGINEERS FEDERAL MANUAL FOR IDENTIFYING AND DELINEATING JURISDICTIONAL WETLANDS.
 B) THE NORTH CENTRAL & NORTHEAST REGIONAL SUPPLEMENT TO THE FEDERAL MANUAL.
 C) THE CURRENT VERSION OF THE FIELD INDICATORS FOR IDENTIFYING HYDRIC SOILS IN NEW ENGLAND, AS PUBLISHED BY THE NEW ENGLAND INTERSTATE WATER POLLUTION CONTROL COMMISSION AND/OR THE CURRENT VERSION OF THE FIELD INDICATORS OF HYDRIC SOILS IN THE UNITED STATES AS PUBLISHED BY THE USDA, NRCS, AS APPROPRIATE.
 D) THE CURRENT NATIONAL LIST OF PLANT SPECIES THAT OCCUR IN WETLANDS, AS PUBLISHED BY THE US FISH AND WILDLIFE SERVICE.

7. FLOOD HAZARD ZONE "X", PER FIRM MAP #33017C028050, DATED 6/17/09.

8. HORIZONTAL DATUM BASED ON REFERENCE PLAN #1.

9. VERTICAL DATUM IS BASED ON APPROXIMATE NAVD83(000012A) (±.2') DERIVED FROM REDUNDANT GPS OBSERVATIONS UTILIZING THE KEYNET GPS VRS NETWORK.

10. AERIAL TOPOGRAPHY WAS CONDUCTED BY EASTERN TOPOGRAPHICS FROM IMAGES TAKEN DURING NOVEMBER 1999 WITH A PHOTO SCALE OF 1"=40'. CONTOURS AND OBJECTS SHOWN WITHIN OBTAINED AREAS ARE APPROXIMATE AND SHOULD BE VERIFIED BEFORE USE FOR DESIGN OR CONSTRUCTION PURPOSES.

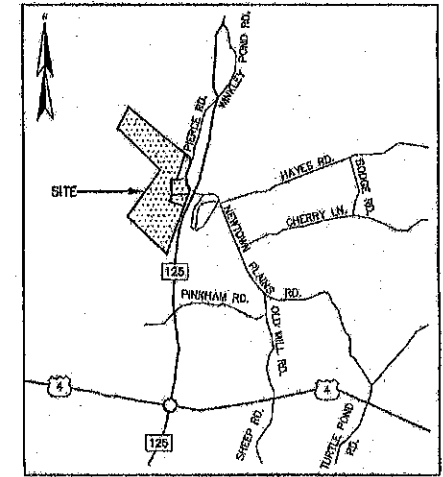
11. THE INTENT OF THIS PLAN IS TO SHOW THE LOCATION OF BOUNDARIES IN ACCORDANCE WITH AND IN RELATION TO THE CURRENT LEGAL DESCRIPTION, AND IS NOT AN ATTEMPT TO DEFINE UNWRITTEN RIGHTS, DETERMINE THE EXTENT OF OWNERSHIP, OR DEFINE THE LIMITS OF TITLE.

12. DUE TO THE COMPLEXITY OF RESEARCHING ROAD RECORDS AS A RESULT OF INCOMPLETE, UNORGANIZED, INCONCLUSIVE, OBTAINED, OR LOST DOCUMENTS, THERE IS AN INHERENT UNCERTAINTY INVOLVED WHEN ATTEMPTING TO DETERMINE THE LOCATION AND WIDTH OF A HIGHWAY RIGHT OF WAY. THE EXTENT OF PIERCE ROAD AND ROUTE 125 AS DEPICTED HEREON IS/ARE BASED ON RESEARCH CONDUCTED AT THE STRAFFORD COUNTY REGISTRY OF DEEDS, NH DEPARTMENT OF TRANSPORTATION AND THE TOWN OF BARRINGTON.

13. FINAL MONUMENTATION MAY BE DIFFERENT THAN THE PROPOSED MONUMENTATION SHOWN HEREON, DUE TO THE FACT THAT SITE CONDITIONS WILL DICTATE THE ACTUAL LOCATION AND TYPE OF MONUMENTS INSTALLED IN THE FIELD. PLEASE REFER TO EITHER THE "MONUMENTATION LOCATION PLAN" TO BE RECORDED OR CONTACT DOUCET SURVEY, INC. FOR CLARIFICATION OF MONUMENTS SET. (A RECORDED PLAN WILL BE PRODUCED AT THE DISCRETION OF DOUCET SURVEY, INC.)

14. TAX MAP 263, LOT 13-1 IS EITHER SUBJECT TO OR IN BENEFIT OF, BUT NOT LIMITED TO, THE FOLLOWING EASEMENTS/RIGHTS OF RECORD:
 A) 50' WIDE RIGHT OF WAY AS SHOWN ON S.C.R.D. PLAN BOOK 28, PAGE 81.
 B) ELEGIRIC EASEMENT TO PSNH, SEE S.C.R.D. BOOK 748, PAGE 417.
 C) SLOPE EASEMENT TO THE STATE OF NEW HAMPSHIRE, SEE S.C.R.D. BOOK 862, PAGE 410.

- REFERENCE PLANS:**
1. "CONSOLIDATION & SUBDIVISION OF BARRINGTON INDUSTRIAL & BUSINESS PARK PREPARED FOR SECOND EDITION LTD., BARRINGTON, NH", DATED JANUARY 8, 1991, BY JOHN J. O'NEIL, INC., SEE SHEET 3 OF 9.
 2. "SUBDIVISION PLAN, HARVARD EMERY, BARRINGTON, NH", DATED NOVEMBER 1905, BY FREDRICK E. DREW ASSOCIATES, S.C.R.D. PLAN #28-01.
 3. "SUBDIVISION PLAN, HARRIS GOODSTEIN, BARRINGTON, NH", DATED JUNE 1997, BY FREDRICK E. DREW ASSOCIATES, S.C.R.D. PLAN #32-2.
 4. "SUBDIVISION PLAN, WESLEY PIERCE, BARRINGTON, NH", DATED JULY 1966, BY FREDRICK E. DREW ASSOCIATES, S.C.R.D. PLAN #20A-57.
 5. "PLAN OF LAND, TEMPLE ISRAEL OF DOVER INC., BARRINGTON, NH", DATED MARCH 1995, BY RANDY R. ORVIS, NOT RECORDED.
 6. "FIELD BOOK SKETCH OF LAND OF CHARLES PALMER, BY AMES, DATED SEPTEMBER 9, 1905, PAGE 54 OF FIELD BOOK #45, AVAILABLE AT THE NEW HAMPSHIRE DIVISION OF RECORD MANAGEMENT AND ARCHIVES.
 7. "JOHN CAZE PLAN FOR JOHN WENTWORTH, DATED NOVEMBER 1799, S.C.R.D. BOOK 25, PAGE 363.
 8. "SUBDIVISION PLAN CALEF HIGHWAY, STRAFFORD COUNTY, NH ROUTE 125, BARRINGTON, NH PREPARED FOR LIBERTY INTERNATIONAL TRUCK OF BARRINGTON, BY NORWAY PLANS ASSOCIATES, INC., DATED SEPTEMBER 2010, S.C.R.D. PLAN #13-5.
 9. "VALENTINE MATIES LAND, FORMERLY 'SEAVEY LOTS, BARRINGTON, NH', DATED APRIL 1973, BY FREDRICK E. DREW ASSOCIATES.
 10. "GREEN-SHERBURNE LOTS, LOCATION PLAN, BARRINGTON, NH", DATED JUNE 1973, BY FREDRICK E. DREW ASSOCIATES.
 11. "PROPOSED SUBDIVISION LAND OF RONALD & PATRICIA DYER", BY DEERY SURVEYING & ENGINEERING, DATED FEBRUARY 25, 1989, S.C.R.D. PLAN 66-46.



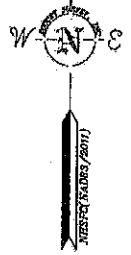
SCALE: 1 INCH = 100 FT.

EXISTING CONDITIONS PLAN
 FOR
HARDROCK DEVELOPMENT, LLC
 LAND OF
TOWN OF BARRINGTON
 TAX MAP 263, LOTS 13-1 & 19
 &
LIBERTY INTERNATIONAL TRUCK
 OF BARRINGTON
 TAX MAP 263, LOTS 13-2 & 18
 ROUTE 125 & PIERCE ROAD
 BARRINGTON, NEW HAMPSHIRE

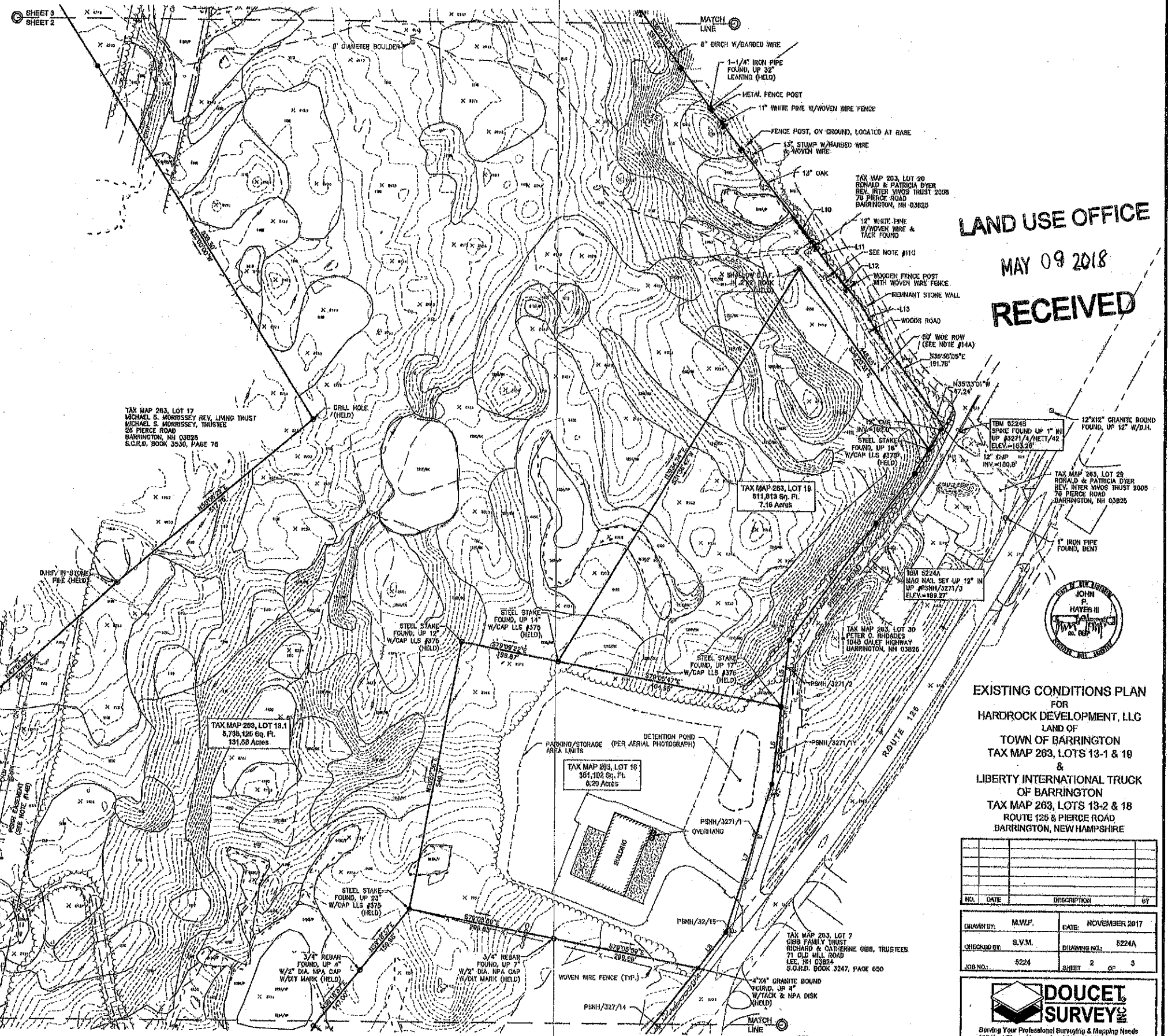
NO.	DATE	DESCRIPTION	BY

DOUCET SURVEY, INC.
 Serving Your Professional Surveying & Mapping Needs
 102 Kent Place, Henniker, NH 03957 (603) 258-6585
 2 Commerce Drive (Suite 202) Bedford, NH 03110 (603) 814-4060
 10 Storer Street (over the Safeway) Kennebunk, ME (207) 592-7005
 info@www.doucetsurvey.com





- LEGEND**
- LOT LINE
 - - - - - APPROXIMATE ADJUTERS LOT LINE
 - EXISTING EASEMENT LINE
 - STONE WALL
 - REMNANT STONE WALL
 - WIRE FENCE
 - OVERHEAD WIRE
 - DRAIN LINE
 - EDGE OF WETLAND (SEE NOTE #6)
 - SOILS LINE (SEE NOTE #10)
 - SOILS LINE (SEE NOTE #10)
 - CONCRETE
 - UTILITY POLE & GUY WIRE
 - BOUND FOUND
 - DRILL HOLE FOUND
 - IRON PIPE/ROD FOUND
 - POST
 - 8/16" REBAR W/D GAP TO BE SET
 - FIRE HYDRANT
 - WETLAND AREA
 - TREE STUMP
 - CONIFEROUS TREE
 - DECIDUOUS TREE
 - EDGE OF PAVEMENT
- LEGEND (AERIAL TOPOGRAPHY)**
- MAJOR CONTOUR LINE
 - MINOR CONTOUR LINE
 - TREE LINE
 - EDGE OF WATER
 - DENSE WOODS
 - TRAIL
 - UTILITY POLE



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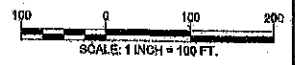
EXISTING CONDITIONS PLAN
FOR
HARDROCK DEVELOPMENT, LLC
LAND OF
TOWN OF BARRINGTON
TAX MAP 263, LOTS 13-1 & 19
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ROUTE 125 & PIERCE ROAD
BARRINGTON, NEW HAMPSHIRE

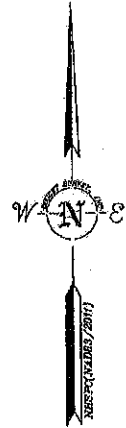
NO.	DATE	DESCRIPTION	BY

DRAWN BY:	M.W.F.	DATE:	NOVEMBER 2017
CHECKED BY:	S.V.M.	DRAWING NO.:	5224A
JOB NO.:	5224	SHEET	2 OF 3

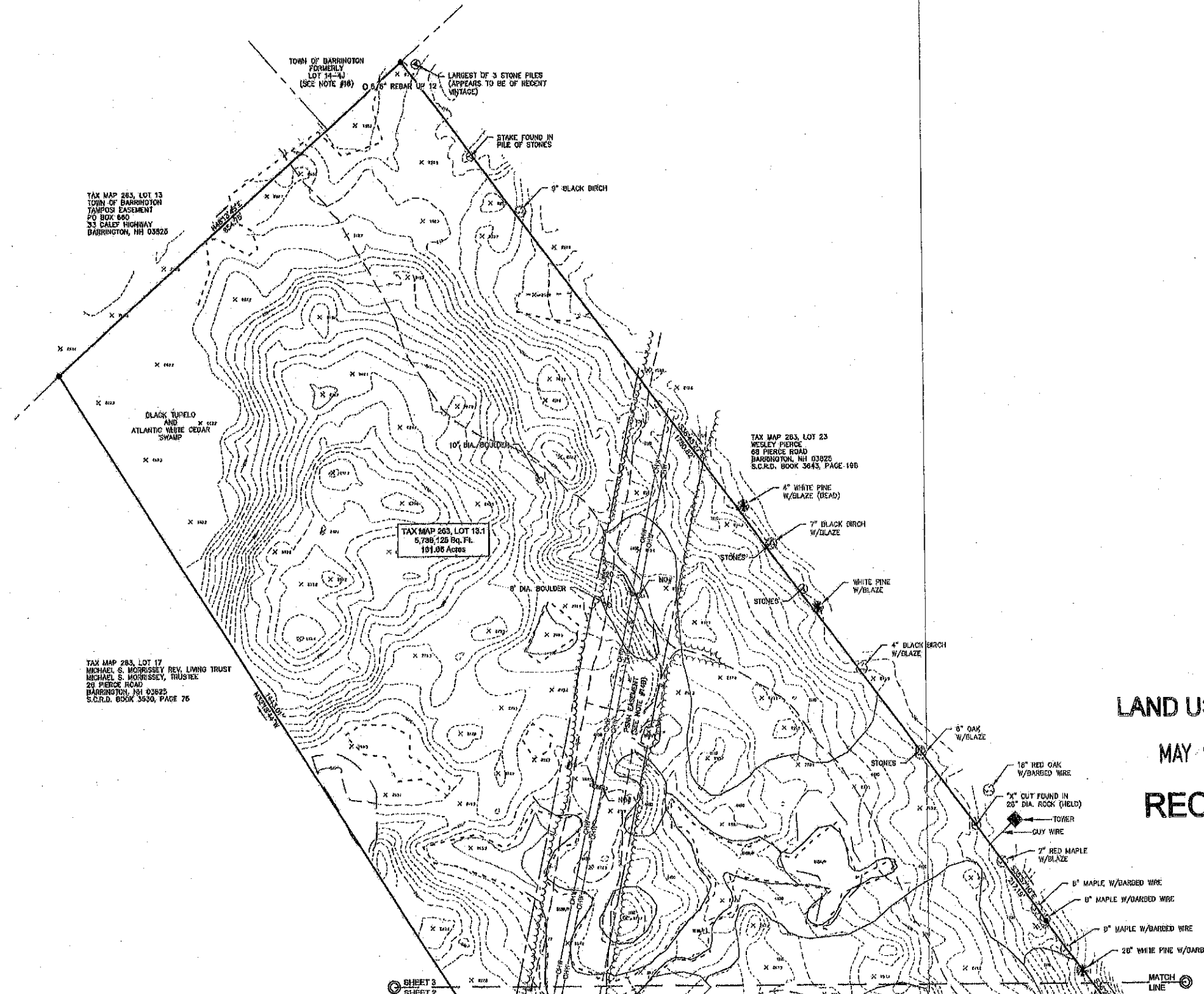


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2 Commerce Drive (Suite 202) Bedford, NH 03110 (603) 814-0800
10 Storier Street (Fifth Street) Keene, NH 03501 (603) 352-7005
http://www.doucetsurvey.com





- LEGEND**
- LOT LINE
 - APPROXIMATE ABUTTERS LOT LINE
 - EXISTING EASEMENT LINE
 - STONE WALL
 - REMNANT STONE WALL
 - WIRE FENCE
 - OVERHEAD WIRE
 - DRAIN LINE
 - EDGE OF WETLAND (SEE NOTE #8)
 - SOILS LINE (SEE NOTE #16)
 - SOILS LINE (SEE NOTE #15)
 - CONCRETE
 - UTILITY POLE & GUY WIRE BOUND FOUND
 - DRILL HOLE FOUND
 - IRON PIPE/ROD FOUND
 - POST
 - 5/8" REBAR W/D CAP TO BE SET
 - FIRE HYDRANT
 - WETLAND AREA
 - TREE STUMP
 - CONIFEROUS TREE
 - DECIDUOUS TREE
 - EDGE OF PAVEMENT
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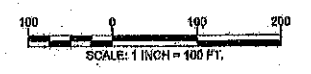
TAX MAP 263, LOT 13
TOWN OF BARRINGTON
TAMPOS EASEMENT
PO BOX 690
33 CALEY HIGHWAY
BARRINGTON, NH 03826

TAX MAP 263, LOT 17
MICHAEL S. MORRISSEY REV. LIVING TRUST
MICHAEL S. MORRISSEY, TRUSTEE
29 PIERCE ROAD
BARRINGTON, NH 03825
S.C.R.D. 050X 3530, PAGE 76

TAX MAP 263, LOT 18-1
5,786 ± 22 SQ. FT.
101.00 ACRES

TAX MAP 263, LOT 23
WESLEY PIERCE
88 PIERCE ROAD
BARRINGTON, NH 03825
S.C.R.D. BOOK 3643, PAGE 160

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EXISTING CONDITIONS PLAN
FOR
HARDROCK DEVELOPMENT, LLC
LAND OF
TOWN OF BARRINGTON
TAX MAP 263, LOTS 13-1 & 19
&
LIBERTY INTERNATIONAL TRUCK
OF BARRINGTON
TAX MAP 263, LOTS 13-2 & 18
ROUTE 125 & PIERCE ROAD
BARRINGTON, NEW HAMPSHIRE

NO.	DATE	DESCRIPTION	BY

DRAWN BY: M.W.F. DATE: NOVEMBER 2017
CHECKED BY: B.V.M. DRAWING NO.: 5224A
JOB NO.: 5224 SHEET 3 OF 3

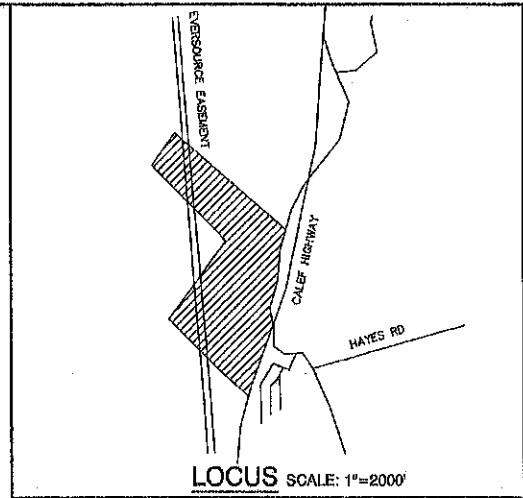
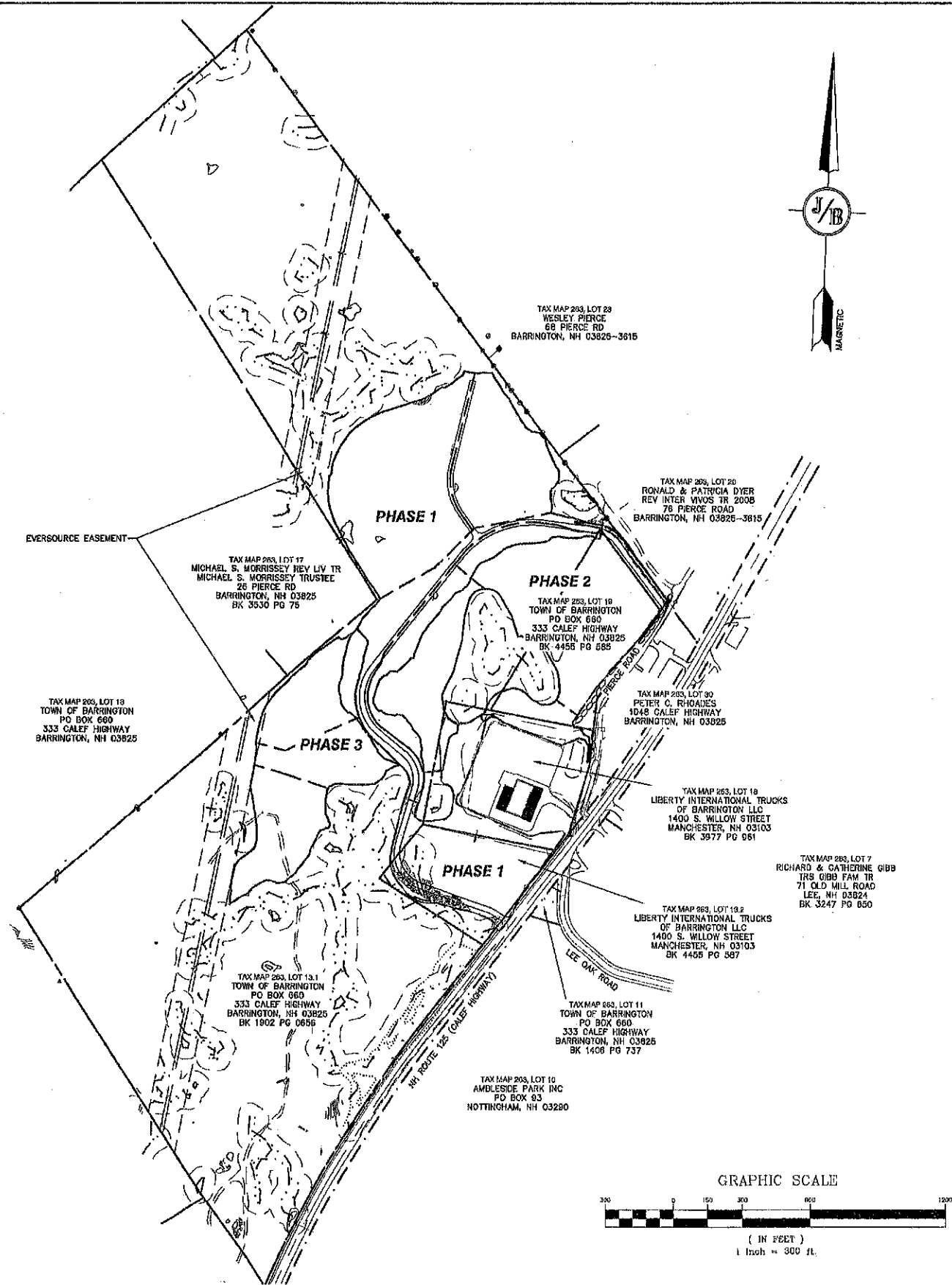
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2 Commerce Drive (Suite 202) Bedford, NH 03110 (603) 614-4060
10 Stoner Street (Granville Suite) Keene, NH 03426 (603) 652-7005
<http://www.doucetsurvey.com>

SHEET 3
OF SHEET 2

MATCH
LINE

SITE NOTES:

1. THE INTENT OF THIS PLAN IS TO DEPICT THE OVERALL SITE PLAN FOR THE PROPOSED EXCAVATION PROJECT LOCATED ON BARRINGTON TAX MAP 263, LOTS 13.1, 13.2, 18, & 19.
2. ZONING DISTRICT: REGIONAL COMMERCIAL
LOT AREA MINIMUM = 40,000 SF
LOT FRONTAGE MINIMUM = 200'
BUILDING SETBACKS (MINIMUM):
FRONT SETBACK = 75'
SIDE SETBACK = 30'
REAR SETBACK = 30'
WETLAND SETBACK = 60'
MAX. BUILDING HEIGHT = 40'
MAX. SEALED SURFACE = 80%
3. NHDES ALTERATION OF TERRAIN PERMIT NO. . DATED
NHDES WETLANDS BUREAU PERMIT NO. . DATED
NHDOT DRIVEWAY PERMIT NO. . DATED
4. THIS PLAN SET HAS BEEN PREPARED BY JONES & BEACH ENGINEERS, INC. FOR MUNICIPAL AND STATE APPROVALS AND FOR CONSTRUCTION BASED ON DATA OBTAINED FROM ON-SITE FIELD SURVEY AND EXISTING MUNICIPAL RECORDS. THROUGHOUT THE CONSTRUCTION PROCESS, THE CONTRACTOR SHALL INFORM THE ENGINEER IMMEDIATELY OF ANY FIELD DISCREPANCY FROM DATA AS SHOWN ON THE DESIGN PLANS, INCLUDING ANY UNFORESEEN CONDITIONS, SUBSURFACE OR OTHERWISE, FOR EVALUATION AND RECOMMENDATIONS. ANY CONTRADICTION BETWEEN ITEMS ON THIS PLAN/PLAN SET, OR BETWEEN THE PLANS AND ON-SITE CONDITIONS, MUST BE RESOLVED BEFORE RELATED CONSTRUCTION HAS BEEN INITIATED. CONTRACTOR TO ALWAYS CONTACT DIG SAFE PRIOR TO DIGGING ONSITE OR OFFSITE TO ENSURE SAFETY AND OBEY THE LAW.
5. ALL CONSTRUCTION SHALL CONFORM TO TOWN STANDARDS AND REGULATIONS, AND NHDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, WHICHEVER IS MORE STRINGENT.
6. SUBJECT PROPERTY IS LOCATED WITHIN FEDERALLY DESIGNATED 100-YEAR FLOOD HAZARD ZONE 'X' (AREA OF MINIMAL FLOOD HAZARD), REFERENCE FEMA COMMUNITY PANEL NO. 33017 C 0295 D, DATED MAY 17, 2006.
7. LANDOWNERS ARE RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL WETLAND REGULATIONS, INCLUDING PERMITTING REQUIRED UNDER THESE REGULATIONS.
8. ALL CONSTRUCTION ACTIVITIES SHALL BE PERFORMED IN ACCORDANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN (S.W.P.P.P.). THIS DOCUMENT IS TO BE KEPT ONSITE AT ALL TIMES AND UPDATED AS REQUIRED.
9. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER, ARCHITECT AND/OR OWNER, IN ORDER TO OBTAIN AND/OR PAY ALL THE NECESSARY LOCAL PERMITS, FEES AND BONDS.
10. ALL CONSTRUCTION ACTIVITIES SHALL CONFORM TO LABOR OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) RULES AND REGULATIONS.
11. IF, DURING CONSTRUCTION, IT BECOMES APPARENT THAT DEFICIENCIES EXIST IN THE APPROVED DESIGN DRAWINGS, THE OWNER SHALL BE REQUIRED TO CORRECT THE DEFICIENCIES TO MEET THE REQUIREMENTS OF THE REGULATIONS AT NO EXPENSE TO THE TOWN.
12. 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 PROTECTION AT NO EXPENSE TO THE TOWN.
13. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL CONFORM TO TOWN REGULATIONS AND THE LATEST EDITION OF THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
14. IN ACCORDANCE WITH TOWN REGULATIONS AND RSA 676:13, ALL IMPROVEMENTS SPECIFIED ON THESE SITE PLANS SHALL BE CONSTRUCTED, COMPLETED, INSPECTED AND APPROVED BY THE TOWN OF BARRINGTON PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
15. IN ACCORDANCE WITH BARRINGTON SITE PLAN REVIEW REGULATIONS AND RSA 676:12, ALL OFF-SITE IMPROVEMENTS SPECIFIED ON THESE SITE PLANS SHALL BE CONSTRUCTED, COMPLETED, INSPECTED AND APPROVED BY THE TOWN OF BARRINGTON (AND/OR THE NHDOT, IF APPLICABLE) PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
16. THE FOLLOWING WAIVERS TO THE BARRINGTON SITE PLAN REGULATIONS WERE GRANTED BY THE BARRINGTON PLANNING BOARD FOR THIS PROJECT: - NONE
17. NO VARIANCES REQUIRED.



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PROJECT PARCEL TOWN OF BARRINGTON TAX MAP 263, LOTS 13.1, 13.2, 18, 19
OWNERS LOTS 13.2 & 18 LIBERTY INTERNATIONAL TRUCK OF BARRINGTON 1400 S. WILLOW STREET MANCHESTER, NH 03101 BK 3977, PG 901 (LOT 18) BK 4455, PG 687 (LOT 13.2)
TOWN OF BARRINGTON P.O. BOX 660 (CALEF HIGHWAY) BARRINGTON, NH 03825 BK 1902, PG 0850 (LOT 13.1) BK 4455, PG 585 (LOT 18)
APPLICANT/DEVELOPER HARD ROCK DEVELOPMENT, LLC PO BOX 28760 SEABROOK, NH 03874
TOTAL PROJECT AREA 6,831,688 ± SQ. FT. 152.24 ACRES

Design: BWG | Draft: GDH | Date: 05/07/2018
Checked: BWG | Scale: AS SHOWN | Project No.: 17082
Drawing Name: 17082-PLAN.dwg
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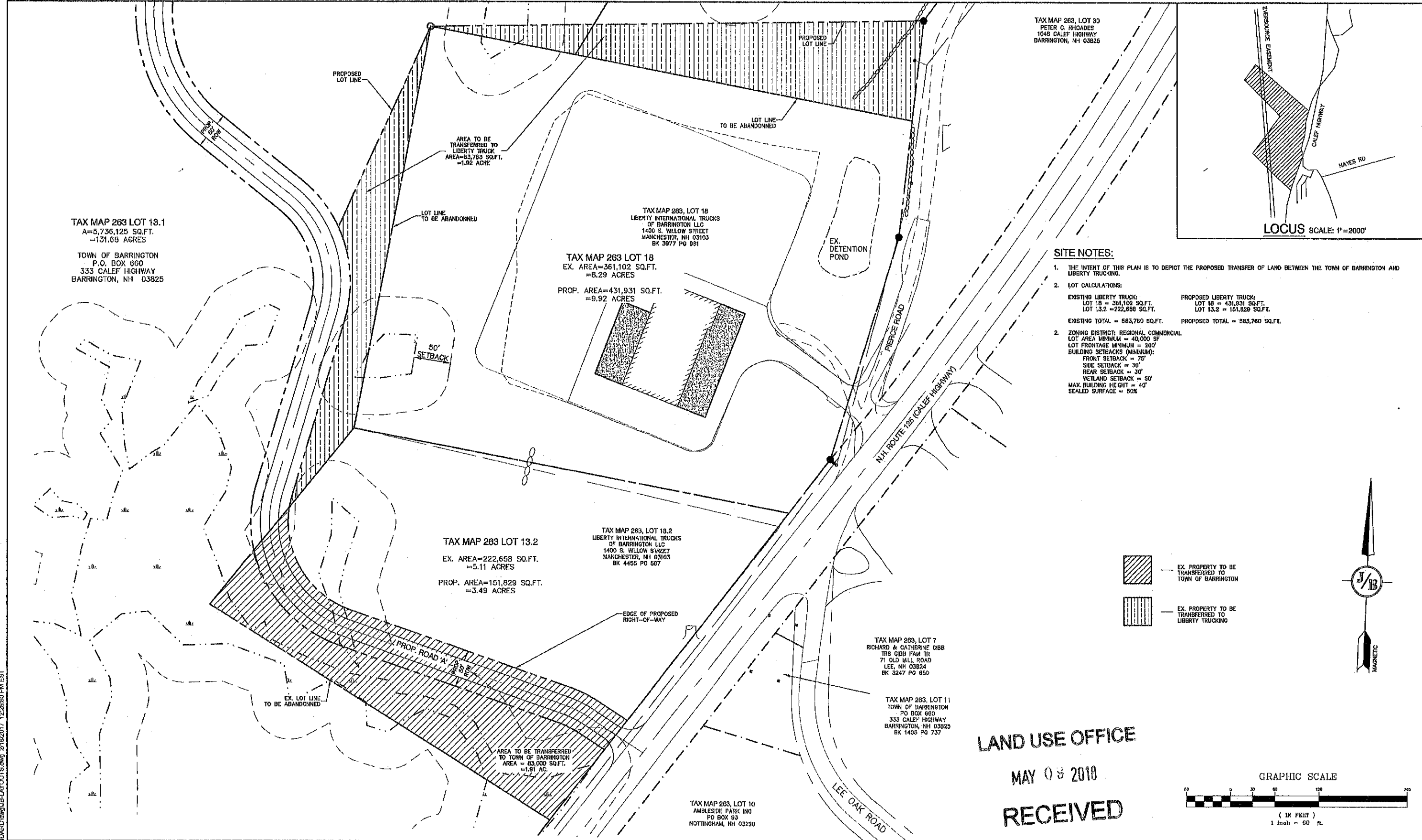


REV.	DATE	REVISION	BY
0	05/07/18	ISSUED FOR REVIEW	BWG

Designed and Produced in NH
J/B Jones & Beach Engineers, Inc.
Civil Engineering Services
85 Portsmouth Ave. | 603-772-4748
PO Box 219 | Stratham, NH 03885 | FAX: 603-772-0227
E-MAIL: JBE@JONESANDBEACH.COM

Plan Name:	OVERALL SITE PLAN MAP 263, LOTS 13.1, 13.2, 18, & 19
Project:	HARD ROCK EXCAVATION PIERCE RD & CALEF HIGHWAY, BARRINGTON, NH
Owner of Record:	LIBERTY INTL. TRUCK OF BARRINGTON TOWN OF BARRINGTON

DRAWING No.
C2
SHEET 5 OF 19
JBE PROJECT NO. 17082



TAX MAP 263 LOT 13.1
 A=5,736,125 SQ.FT.
 =131.65 ACRES
 TOWN OF BARRINGTON
 P.O. BOX 660
 333 CALEF HIGHWAY
 BARRINGTON, NH 03825

TAX MAP 263, LOT 18
 LIBERTY INTERNATIONAL TRUCKS
 OF BARRINGTON LLC
 1400 S. WILLOW STREET
 MANCHESTER, NH 03103
 BK 3977 PG 081

TAX MAP 263 LOT 18
 EX. AREA=361,102 SQ.FT.
 =8.29 ACRES
 PROP. AREA=431,931 SQ.FT.
 =9.92 ACRES

TAX MAP 263 LOT 13.2
 EX. AREA=222,658 SQ.FT.
 =5.11 ACRES
 PROP. AREA=151,629 SQ.FT.
 =3.49 ACRES

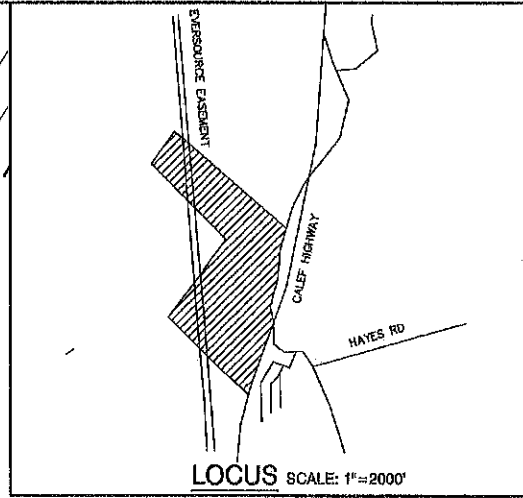
TAX MAP 263, LOT 13.2
 LIBERTY INTERNATIONAL TRUCKS
 OF BARRINGTON LLC
 1400 S. WILLOW STREET
 MANCHESTER, NH 03103
 BK 4455 PG 587

TAX MAP 263, LOT 7
 RICHARD & CATHERINE GIBB
 TRS GIBB FAM TR
 71 OLD MILL ROAD
 LEE, NH 03824
 BK 3247 PG 650

TAX MAP 263, LOT 11
 TOWN OF BARRINGTON
 PO BOX 660
 333 CALEF HIGHWAY
 BARRINGTON, NH 03825
 BK 1408 PG 737

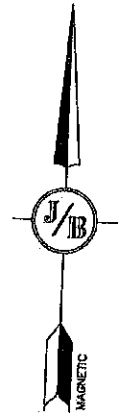
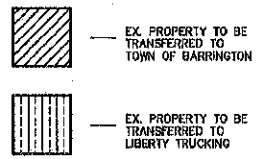
TAX MAP 263, LOT 10
 AMBLESIDE PARK INC
 PO BOX 93
 NOTTINGHAM, NH 03220

TAX MAP 263, LOT 30
 PETER C. RHOADES
 1048 CALEF HIGHWAY
 BARRINGTON, NH 03825

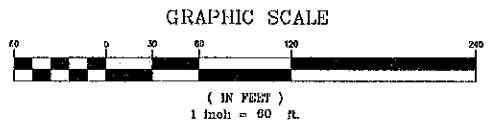


SITE NOTES:

- THE INTENT OF THIS PLAN IS TO DEPICT THE PROPOSED TRANSFER OF LAND BETWEEN THE TOWN OF BARRINGTON AND LIBERTY TRUCKING.
- LOT CALCULATIONS:
 EXISTING LIBERTY TRUCK:
 LOT 18 = 361,102 SQ.FT.
 LOT 13.2 = 222,658 SQ.FT.
 EXISTING TOTAL = 583,760 SQ.FT.
 PROPOSED LIBERTY TRUCK:
 LOT 18 = 431,931 SQ.FT.
 LOT 13.2 = 151,629 SQ.FT.
 PROPOSED TOTAL = 583,560 SQ.FT.
- ZONING DISTRICT: REGIONAL COMMERCIAL
 LOT AREA MINIMUM = 40,000 SF
 LOT FRONTAGE MINIMUM = 200'
 BUILDING SETBACKS (MINIMUM):
 FRONT SETBACK = 75'
 SIDE SETBACK = 30'
 REAR SETBACK = 30'
 WETLAND SETBACK = 50'
 MAX. BUILDING HEIGHT = 40'
 SEALED SURFACE = 50%



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Design: BWG Draft: GDR Date: 05/07/2018
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 Drawing Name: 17082-PLAN.dwg
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 603-772-4746 FAX: 603-772-0227
 E-MAIL: JBE@JONESANDBEACH.COM

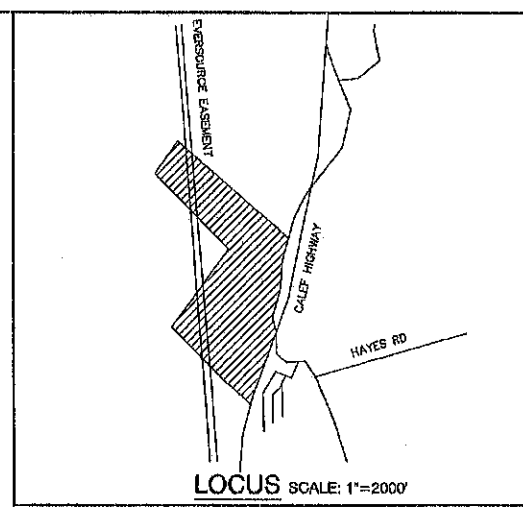
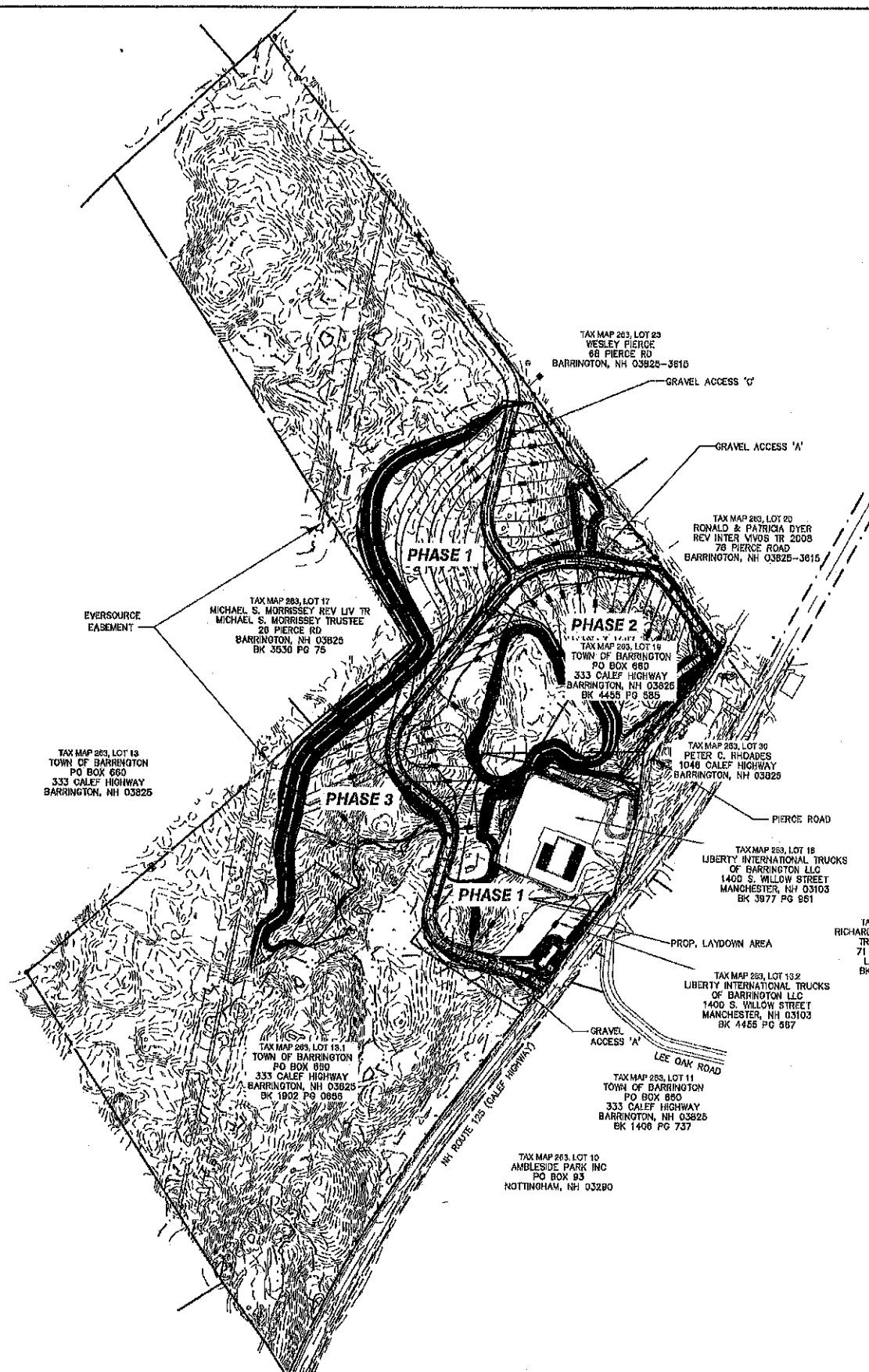
Plan Name:	SITE PLAN MAP 263, LOTS 13.1, 13.2, 18, & 19
Project:	HARD ROCK EXCAVATION PIERCE RD & CALEF HIGHWAY, BARRINGTON, NH
Owner of Record:	LIBERTY INTL TRUCK OF BARRINGTON TOWN OF BARRINGTON

DRAWING No.
C2-1
 SHEET 6 OF 10
 JBE PROJECT NO. 17082

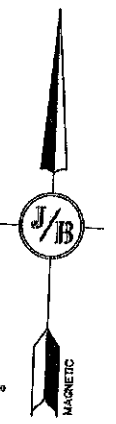
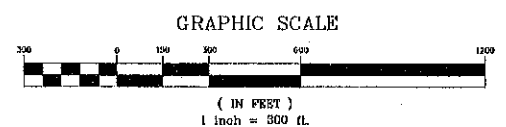
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GRADING AND DRAINAGE NOTES:

- UNDERGROUND FACILITIES, UTILITIES AND STRUCTURES HAVE BEEN PLOTTED FROM FIELD OBSERVATION AND THEIR LOCATION MUST BE CONSIDERED APPROXIMATE ONLY. NEITHER JONES & BEACH ENGINEERS, INC., NOR ANY OF THEIR EMPLOYEES TAKE RESPONSIBILITY FOR THE LOCATION OF ANY UNDERGROUND STRUCTURES AND/OR UTILITIES NOT SHOWN THAT MAY EXIST. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE ALL UNDERGROUND STRUCTURES AND/OR UTILITIES LOCATED PRIOR TO EXCAVATION WORK BY CALLING 888-DIG-SAFE (888-344-7233).
- VERTICAL DATUM: NOVD20. HORIZONTAL DATUM: REF PLAN #1.
- ALL BENCHMARKS AND TOPOGRAPHY SHOULD BE FIELD VERIFIED BY THE CONTRACTOR.
- SITE GRADING SHALL NOT PROCEED UNTIL EROSION CONTROL MEASURES HAVE BEEN INSTALLED. SEE CONSTRUCTION SEQUENCE ON SHEET E1.
- PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR IS REQUIRED TO HAVE THE PROJECT'S LAND SURVEYOR STAKE OR FLAG CLEARING LIMITS. A MINIMUM OF 48 HOURS NOTICE IS REQUIRED.
- ALL SWALES AND DETENTION PONDS ARE TO BE STABILIZED PRIOR TO DIRECTING RUNOFF TO THEM.
- ALL DRAINAGE STRUCTURE INTERIOR DIAMETERS (4' MIN) SHALL BE DETERMINED BY THE MANUFACTURER BASED ON THE PIPE CONFIGURATIONS SHOWN ON THESE PLANS. CATCH BASINS SHALL HAVE 3' DEEP SUMPS WITH GREASE HOODS, UNLESS OTHERWISE NOTED.
- ALL DRAINAGE STRUCTURES AND STORM SEWER PIPES SHALL MEET HEAVY DUTY TRAFFIC H20 LOADING AND SHALL BE INSTALLED ACCORDINGLY.
- IN AREAS WHERE CONSTRUCTION IS PROPOSED ADJACENT TO ADJUTING PROPERTIES, THE CONTRACTOR SHALL INSTALL ORANGE CONSTRUCTION FENCING ALONG PROPERTY LINES IN ALL AREAS WHERE SILT FENCING IS NOT REQUIRED.
- ALL DRAINAGE PIPE SHALL BE NON-PERFORATED ADS N-12 OR APPROVED EQUAL.
- LAND DISTURBING ACTIVITIES SHALL NOT COMMENCE UNTIL APPROVAL TO DO SO HAS BEEN RECEIVED BY ALL GOVERNING AUTHORITIES. THE GENERAL CONTRACTOR SHALL STRICTLY ADHERE TO THE EPA SWPPP DURING CONSTRUCTION OPERATIONS.
- NO LAND CLEARING OR GRADING SHALL BEGIN UNTIL ALL EROSION CONTROL MEASURES HAVE BEEN INSTALLED.
- ALL EXPOSED AREAS SHALL BE SEEDED AS SPECIFIED WITHIN 3 DAYS OF FINAL GRADING.
- SHOULD CONSTRUCTION STOP FOR LONGER THAN 3 DAYS, THE SITE SHALL BE SEEDED AS SPECIFIED.
- MAINTAIN EROSION CONTROL MEASURES AFTER EACH RAIN EVENT OF 0.25" OR GREATER IN A 24 HOUR PERIOD AND AT LEAST ONCE A WEEK.
- THIS PLAN SHALL NOT BE CONSIDERED ALL INCLUSIVE, AS THE GENERAL CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SEDIMENT FROM LEAVING THE SITE.
- CONSTRUCTION VEHICLES SHALL UTILIZE THE STABILIZED CONSTRUCTION ENTRANCE TO THE EXTENT POSSIBLE THROUGHOUT CONSTRUCTION.
- IF INSTALLATION OF STORM DRAINAGE SYSTEM SHOULD BE INTERRUPTED BY WEATHER OR NIGHTFALL, THE PIPE ENDS SHALL BE COVERED WITH FILTER FABRIC.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO TAKE WHATEVER MEANS NECESSARY TO ESTABLISH PERMANENT SOIL STABILIZATION.
- SEDIMENT SHALL BE REMOVED FROM ALL SEDIMENT BASINS BEFORE THEY ARE 25% FULL.
- ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH PROJECT SPECIFICATIONS.
- ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED, IF DEEMED NECESSARY BY ON-SITE INSPECTION BY ENGINEER AND/OR REGULATORY OFFICIALS.
- SEE ALSO EROSION AND SEDIMENT CONTROL SPECIFICATIONS ON SHEET E1.



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Design: BWG Draft: GDR Date: 05/07/2018
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Drawing Name: 17082-PLAN.dwg

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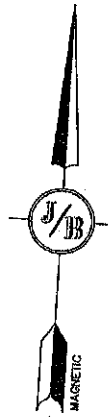
J/B Jones & Beach Engineers, Inc.

85 Portsmouth Ave. Civil Engineering Services 603-772-4746
PO Box 219 Stratham, NH 03885 FAX: 603-772-0227
E-MAIL: JBE@JONESANDBEACH.COM

Plan Name:	OVERALL GRADING AND DRAINAGE PLAN MAP 283, LOTS 13.1, 13.2, 18, & 19
Project:	HARD ROCK EXCAVATION PIERCE RD & CALEF HIGHWAY, BARRINGTON, NH
Owner of Record:	LIBERTY INTL TRUCK OF BARRINGTON TOWN OF BARRINGTON

DRAWING No.
C3
SHEET 7 OF 19
JBE PROJECT NO. 17082

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TAX MAP 263, LOT 19
TOWN OF BARRINGTON
PO BOX 680
333 CALEF HIGHWAY
BARRINGTON, NH 03825

TAX MAP 263, LOT 13.1
TOWN OF BARRINGTON
PO BOX 680
333 CALEF HIGHWAY
BARRINGTON, NH 03825
BK 1502 PG 0056

TAX MAP 263, LOT 18
LIBERTY INTERNATIONAL TRUCKS
OF BARRINGTON LLC
1400 S. WILLOW STREET
MANCHESTER, NH 03103
BK 3077 PG 901

TAX MAP 263, LOT 80
PETER C. BROADBENT
1048 CALEF HIGHWAY
BARRINGTON, NH 03825

TAX MAP 263, LOT 7
RICHARD & CATHERINE GIBB
TR. GIBB FARM TR
71 OLD MILL ROAD
LEE, NH 03824
BK J247 PG 660

TAX MAP 263, LOT 11
TOWN OF BARRINGTON
PO BOX 680
333 CALEF HIGHWAY
BARRINGTON, NH 03825
BK 1406 PG 737

TAX MAP 263, LOT 10
AMELIESE PARK INC
PO BOX 83
NOTTINGHAM, NH 03280

GRADING AND DRAINAGE NOTES:

1. THE INTENT OF THIS PLAN IS TO DEPICT THE COMPLETED GRADING PLAN FOR THE SUBJECT PROPERTY.
2. SEE SHEET C3 FOR ADDITIONAL GRADING AND DRAINAGE NOTES.
3. SEE SHEET P1-A THRU P3 FOR PHASED GRADING AND DRAINAGE PLANS.
4. SEE SHEETS PP1 THRU PP4 FOR ROADWAY PLAN AND PROFILE PLANS.
5. SEE ALSO EROSION AND SEDIMENT CONTROL SPECIFICATIONS ON SHEET E1.

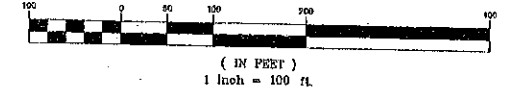
WETLAND IMPACT CALCULATIONS: LAND USE OFFICE

1. PROPOSED WETLAND IMPACT = 1,412 SQ.FT.
2. WETLAND BUFFER IMPACT
 BUFFER IMPACT #1 = 2,754 SQ.FT.
 BUFFER IMPACT #2 = 10,645 SQ.FT.
 BUFFER IMPACT #3 = 7,413 SQ.FT.
 BUFFER IMPACT #4 = 1,012 SQ.FT.
 BUFFER IMPACT #5 = 2,082 SQ.FT.
 BUFFER IMPACT #6 = 1,623 SQ.FT.
 BUFFER IMPACT #7 = 1,603 SQ.FT. (SEE SHEET C3-2)
 TOTAL BUFFER IMPACT = 26,972 SQ.FT. = 0.62 AC.

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GRAPHIC SCALE



Design: BWG Draft: GDR Date: 05/07/2018
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 Drawing Name: 17082-PLAN.dwg
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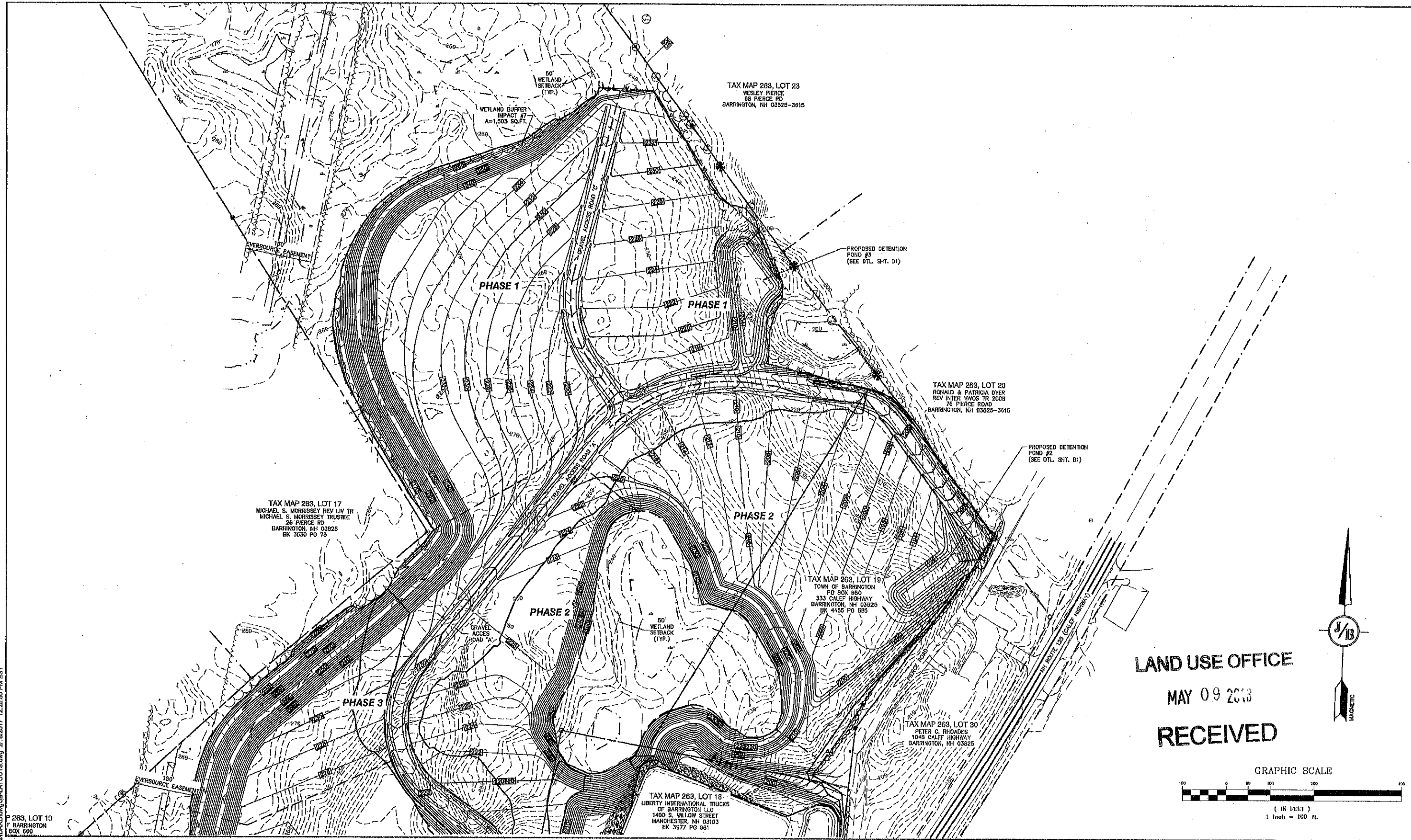
Designed and Produced In NH
J/B Jones & Beach Engineers, Inc.
 Civil Engineering Services
 85 Portsmouth Ave. PO Box 216 Stratham, NH 03886
 603-772-4746 FAX: 603-772-0227
 E-MAIL: JBE@JONESANDBEACH.COM

Plan Name: **GRADING & DRAINAGE PLAN #1**
 MAP 263, LOTS 13.1, 13.2, 18, & 19
 Project: **HARD ROCK EXCAVATION**
PIERCE RD & CALEF HIGHWAY, BARRINGTON, NH
 Owner of Record: **LIBERTY INTL TRUCK OF BARRINGTON**
TOWN OF BARRINGTON

DRAWING No.
C3-1
 SHEET 6 OF 10
 JBE PROJECT NO. 17082

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W:\17082\17082\17082 CALEF HIGHWAY-HARD ROCK EXCAVATION\17082-PLAN.dwg 5/7/2018 11:05:53



Design: BWG Draft: GDR Date: 05/07/2018
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 Drawing Name: 17082-PLAN.dwg
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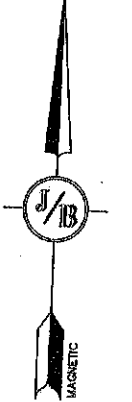
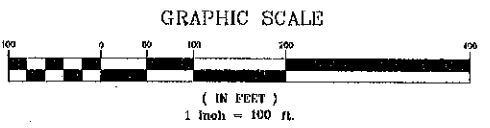
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J/B Jones & Beach Engineers, Inc.
 Civil Engineering Services
 85 Portsmouth Ave. PO Box 219 Strafford, NH 03885
 603-772-4746 FAX: 603-772-0227
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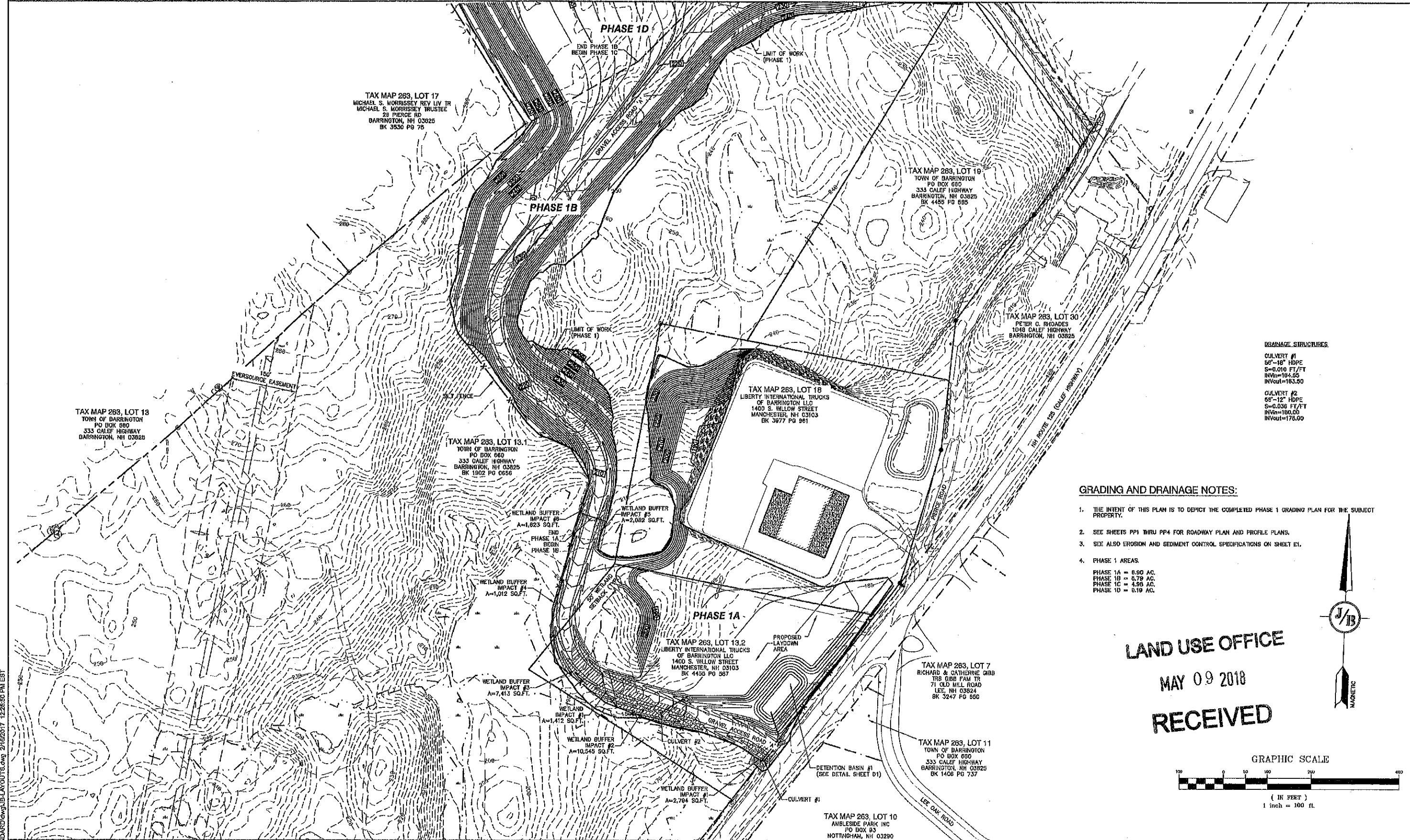
Plan Name: **CONCEPTUAL GRADING PLAN**
 MAP 263, LOTS 13.1, 13.2, 18, & 19
 Project: **HARD ROCK EXCAVATION**
PIERCE RD & CALEF HIGHWAY, BARRINGTON, NH
 Owner of Record: **LIBERTY INTL. TRUCK OF BARRINGTON TOWN OF BARRINGTON**

DRAWING No.
C3-2
 SHEET 0 OF 10
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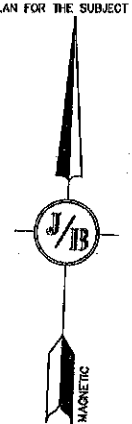
DRAINAGE STRUCTURES

CULVERT #1
56"-16" HDPE
S=0.010 FT/FT
INVin=184.55
INVout=163.50

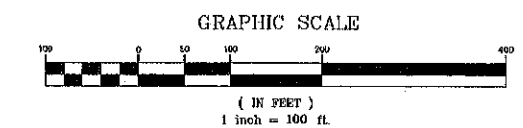
CULVERT #2
56"-12" HDPE
S=0.036 FT/FT
INVin=180.00
INVout=176.00

GRADING AND DRAINAGE NOTES:

1. THE INTENT OF THIS PLAN IS TO DEPICT THE COMPLETED PHASE 1 GRADING PLAN FOR THE SUBJECT PROPERTY.
2. SEE SHEETS PP1 THRU PP4 FOR ROADWAY PLAN AND PROFILE PLANS.
3. SEE ALSO EROSION AND SEDIMENT CONTROL SPECIFICATIONS ON SHEET E1.
4. PHASE 1 AREAS:
PHASE 1A = 6.90 AC.
PHASE 1B = 0.79 AC.
PHASE 1C = 4.93 AC.
PHASE 1D = 0.19 AC.



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Drawing Name: 17082-PLAN.dwg

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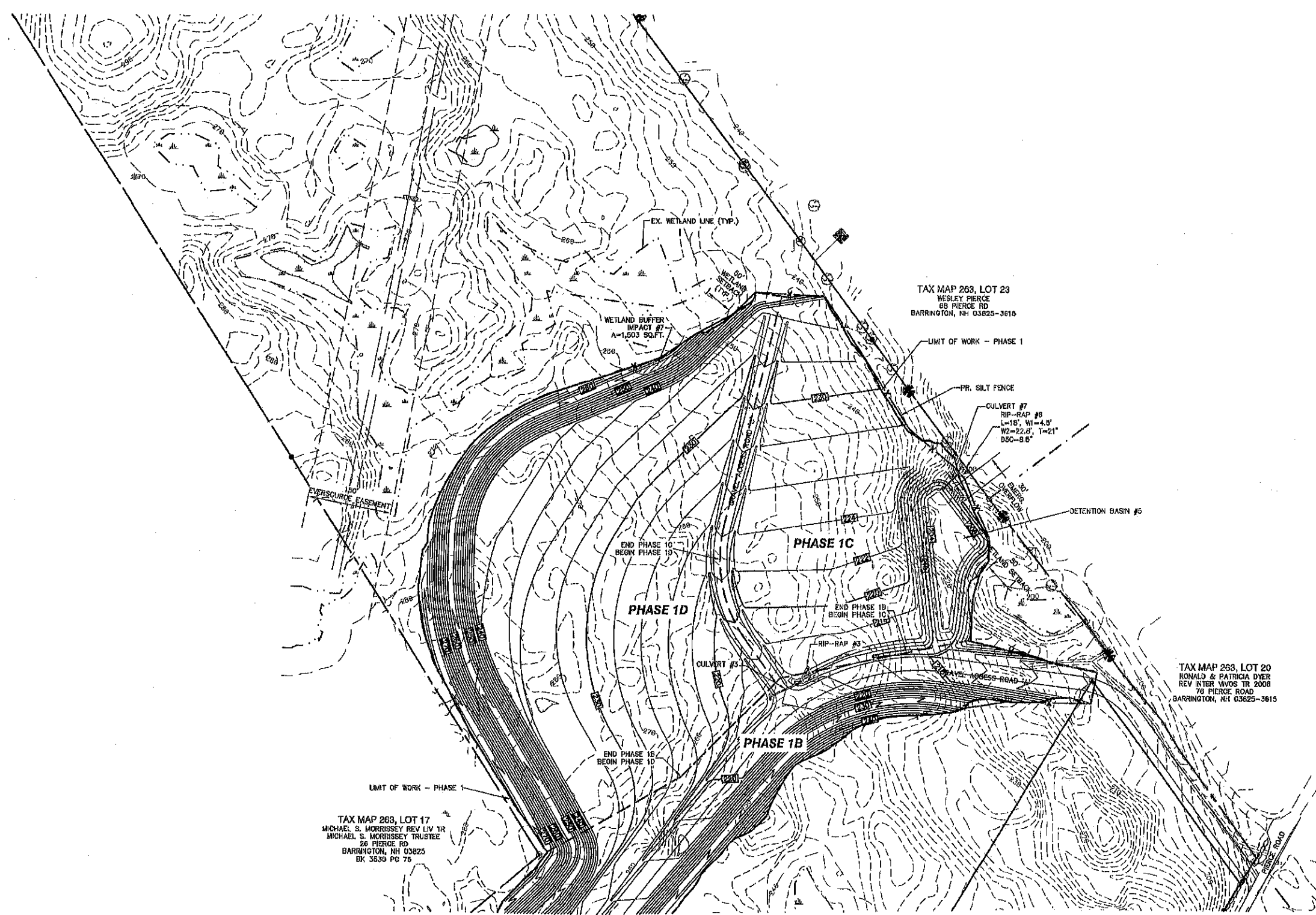
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E-MAIL: JBE@JONESANDBEACH.COM

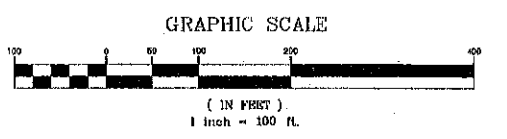
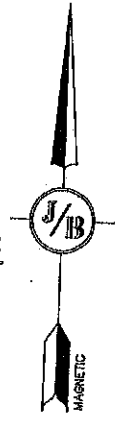
Plan Name:	PHASE 1 GRADING PLAN MAP 263, LOTS 13.1, 13.2, 18, 19
Project:	HARD ROCK EXCAVATION PIERCE RD & CALEF HIGHWAY, BARRINGTON, NH
Owner of Record:	LIBERTY INTL. TRUCK OF BARRINGTON TOWN OF BARRINGTON

DRAWING No.
P1-A
SHEET 10 OF 19
JBE PROJECT NO. 17082



DRAINAGE STRUCTURES
 CULVERT #3
 61'-24" HDPE
 S=0.020 FT/FT
 INV=213.22
 INVout=212.00

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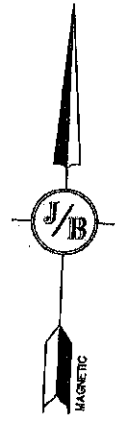
Designed and Produced in NH

J/B Jones & Beach Engineers, Inc.

85 Portsmouth Ave. Civil Engineering Services 603-772-4746
 PO Box 219 Stratham, NH 03885 FAX: 603-772-0227
 E-MAIL: JBE@JONESANDBEACH.COM

Plan Name: **PHASE 1 GRADING PLAN**
 MAP 263, LOTS 13.1, 13.2, 18, 19
 Project: **HARD ROCK EXCAVATION**
PIERCE RD & CALEF HIGHWAY, BARRINGTON, NH
 Owner of Record: **LIBERTY INTL TRUCK OF BARRINGTON**
TOWN OF BARRINGTON

DRAWING No.
P1-B
 SHEET 11 OF 19
 JBE PROJECT NO. 17082



TAX MAP 263, LOT 17
MICHAEL S. MORRISSEY REV LIV TR
MICHAEL S. MORRISSEY TRUSTEE
26 PIERCE RD
BARRINGTON, NH 03825
BK 3530 PG 76

TAX MAP 263, LOT 13
TOWN OF BARRINGTON
PO BOX 660
333 CALEF HIGHWAY
BARRINGTON, NH 03826

TAX MAP 263, LOT 13.1
TOWN OF BARRINGTON
PO BOX 660
333 CALEF HIGHWAY
BARRINGTON, NH 03826
BK 1802 PG 0556

TAX MAP 263, LOT 18
LIBERTY INTERNATIONAL TRUCKS
OF BARRINGTON LLC
1400 S. WILLOW STREET
MANCHESTER, NH 03103
BK 3977 PG 961

TAX MAP 263, LOT 13.2
LIBERTY INTERNATIONAL TRUCKS
OF BARRINGTON LLC
1400 S. WILLOW STREET
MANCHESTER, NH 03103
BK 4450 PG 687

TAX MAP 263, LOT 19
TOWN OF BARRINGTON
PO BOX 680
333 CALEF HIGHWAY
BARRINGTON, NH 03826
BK 4455 PG 685

TAX MAP 263, LOT 30
PETER C. RHOADES
1040 CALEF HIGHWAY
BARRINGTON, NH 03826

TAX MAP 263, LOT 7
RICHARD & CATHERINE GIBB
TRS GIBB FAM TR
71 OLD MILL ROAD
LEE, NH 03824
BK 3247 PG 660

TAX MAP 263, LOT 11
TOWN OF BARRINGTON
PO BOX 680
333 CALEF HIGHWAY
BARRINGTON, NH 03826
BK 1406 PG 737

TAX MAP 263, LOT 10
AMBLESIDE PARK INC
PO BOX 93
NOTTINGHAM, NH 03260

PHASE 1D

PHASE 2B

PHASE 2A

PHASE 2C

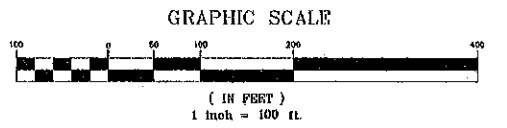
PHASE 1

DRAINAGE STRUCTURES
CULVERT #1
61'-18" HDPE
S=0.010 FT/FT
INlet=182.00
INlet=182.00

GRADING AND DRAINAGE NOTES:

1. THE INTENT OF THIS PLAN IS TO DEPICT THE COMPLETED PHASE 2 GRADING PLAN FOR THE SUBJECT PROPERTY.
2. SEE SHEETS PP1 THRU PP4 FOR ROADWAY PLAN AND PROFILE PLANS.
3. SEE ALSO EROSION AND SEDIMENT CONTROL SPECIFICATIONS ON SHEET E1.
4. PHASE 2 AREAS.
PHASE 2A = 5.20 AC.
PHASE 2B = 0.60 AC.
PHASE 2C = 1.41 AC.

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Design: BWG Draft: GDR Date: 05/07/2018
Checked: BWG Scale: AS SHOWN Project No.: 17082
Drawing Name: 17082-PLAN.dwg
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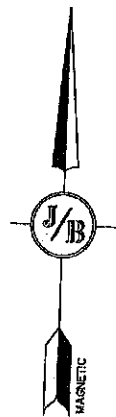
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J/B Jones & Beach Engineers, Inc.
Civil Engineering Services
85 Portsmouth Ave. PO Box 219 Stratham, NH 03885
603-772-4740 FAX: 603-772-0227 E-MAIL: JBE@JONESANDBEACH.COM

Plan Name: **PHASE 2 GRADING PLAN**
MAP 263, LOTS 13.1, 13.2, 18, 19
Project: **HARD ROCK EXCAVATION**
PIERCE RD & CALEF HIGHWAY, BARRINGTON, NH
Owner of Record: **LIBERTY INTL. TRUCK OF BARRINGTON**
TOWN OF BARRINGTON

DRAWING No. **P2**
SHEET 12 OF 19
JBE PROJECT NO. 17082



TAX MAP 263, LOT 17
MICHAEL S. MORRISSEY REV LIV TR
MICHAEL S. MORRISSEY TRUSTEE
26 PIERCE RD
BARRINGTON, NH 03825
BK 3530 PG 76

TAX MAP 263, LOT 19
TOWN OF BARRINGTON
PO BOX 650
333 CALEF HIGHWAY
BARRINGTON, NH 03825
BK 4455 PG 585

TAX MAP 263, LOT 30
PETER C. RHOADES
1048 CALEF HIGHWAY
BARRINGTON, NH 03825

TAX MAP 263, LOT 13
TOWN OF BARRINGTON
PO BOX 650
333 CALEF HIGHWAY
BARRINGTON, NH 03825

TAX MAP 263, LOT 13.1
TOWN OF BARRINGTON
PO BOX 650
333 CALEF HIGHWAY
BARRINGTON, NH 03825
BK 1902 PG 0655

TAX MAP 263, LOT 18
LIBERTY INTERNATIONAL TRUCKS
OF BARRINGTON LLC
1400 S. WILLOW STREET
MANCHESTER, NH 03103
BK 3977 PG 861

TAX MAP 263, LOT 13.2
LIBERTY INTERNATIONAL TRUCKS
OF BARRINGTON LLC
1400 S. WILLOW STREET
MANCHESTER, NH 03103
BK 4455 PG 587

TAX MAP 263, LOT 7
RICHARD & CATHERINE GIBB
TRUSTEES
71 OLD MILL ROAD
LEE, NH 03824
BK 3247 PG 650

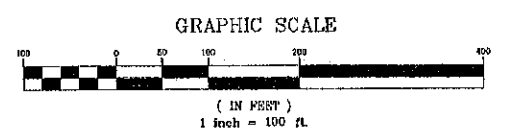
TAX MAP 263, LOT 11
TOWN OF BARRINGTON
PO BOX 650
333 CALEF HIGHWAY
BARRINGTON, NH 03825
BK 1408 PG 737

TAX MAP 263, LOT 10
AMBLESIDE PARK INC
PO BOX 83
NOTTINGHAM, NH 03280

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GRADING AND DRAINAGE NOTES:

1. THE INTENT OF THIS PLAN IS TO DEPICT THE COMPLETED PHASE 3 GRADING PLAN FOR THE SUBJECT PROPERTY.
2. SEE SHEETS PP1 THRU PP4 FOR ROADWAY PLAN AND PROFILE PLANS.
3. SEE ALSO EROSION AND SEDIMENT CONTROL SPECIFICATIONS ON SHEET E1.
4. PHASE 3 AREAS:
PHASE 3A = 3.31 AC.
PHASE 3B = 2.51 AC.
PHASE 3C = 3.36 AC.



Design: BWG Draft: GDR Date: 05/07/2018
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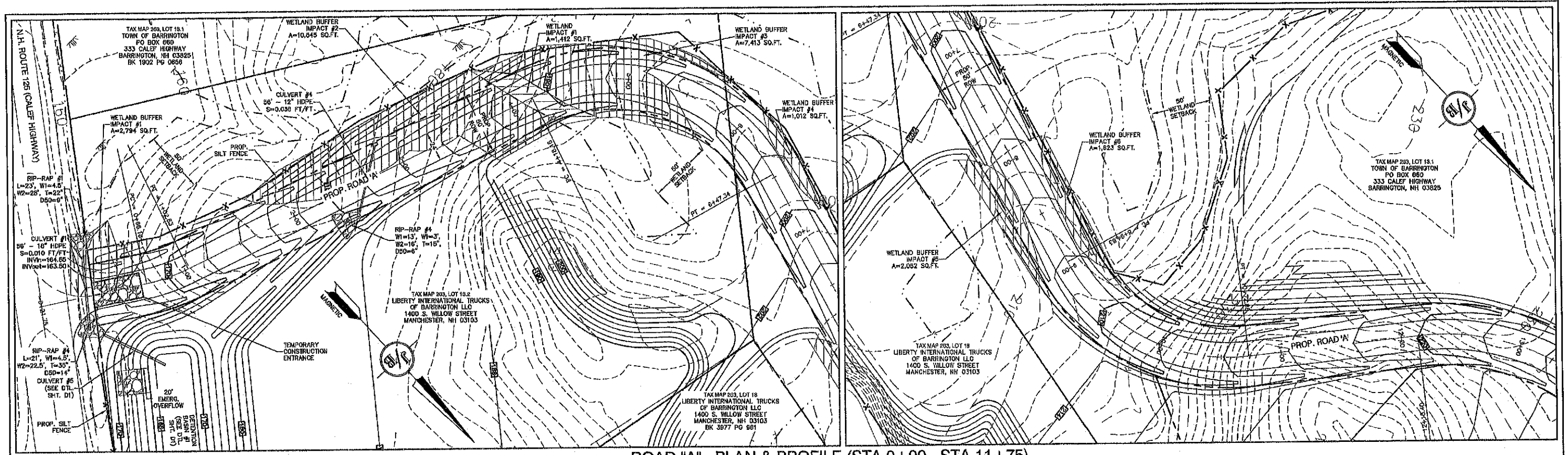
Designed and Produced in NH

J/B Jones & Beach Engineers, Inc.

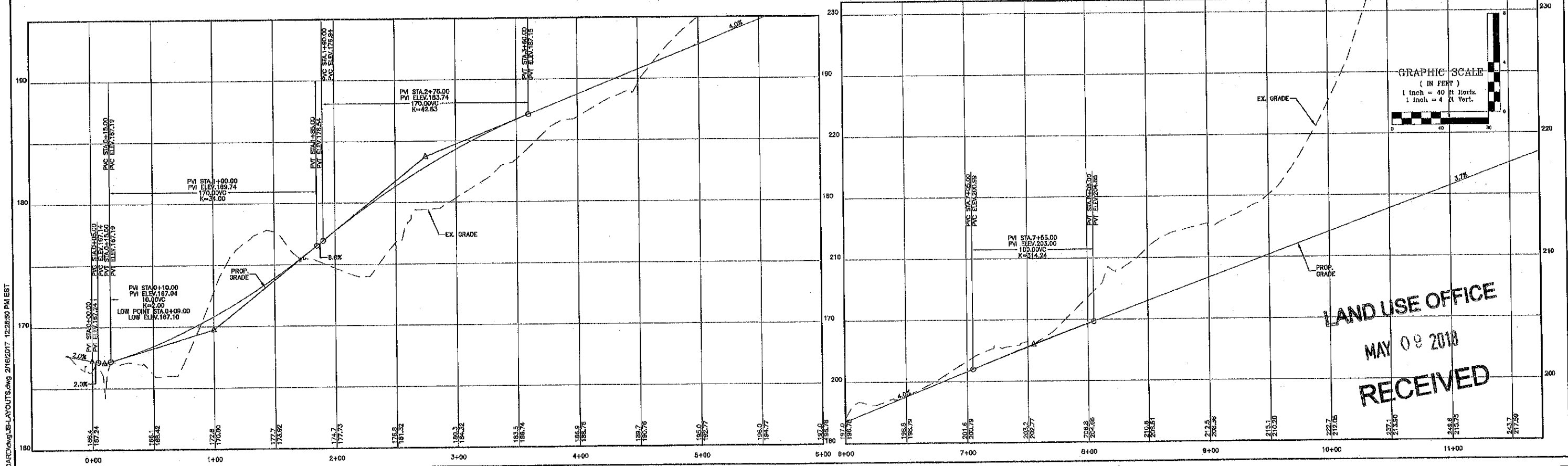
85 Portsmouth Ave. Civil Engineering Services 603-772-4749
PO Box 219 Stratham, NH 03885 FAX: 603-772-0227
E-MAIL: JBE@JONESANDBEACH.COM

Plan Name: **PHASE 3 - GRADING PLAN**
MAP 263, LOTS 13.1, 13.2, 18, & 19
Project: **HARD ROCK EXCAVATION**
PIERCE RD & CALEF HIGHWAY, BARRINGTON, NH
Owner of Record: **LIBERTY INTL TRUCK OF BARRINGTON**
TOWN OF BARRINGTON

DRAWING No.
P3
SHEET 13 OF 19
JBE PROJECT NO. 17082



ROAD "A" - PLAN & PROFILE (STA 0+00 - STA 11+75)



Design: BWG Draft: GDR Date: 06/07/2018
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 Drawing Name: 17082-PLAN.dwg
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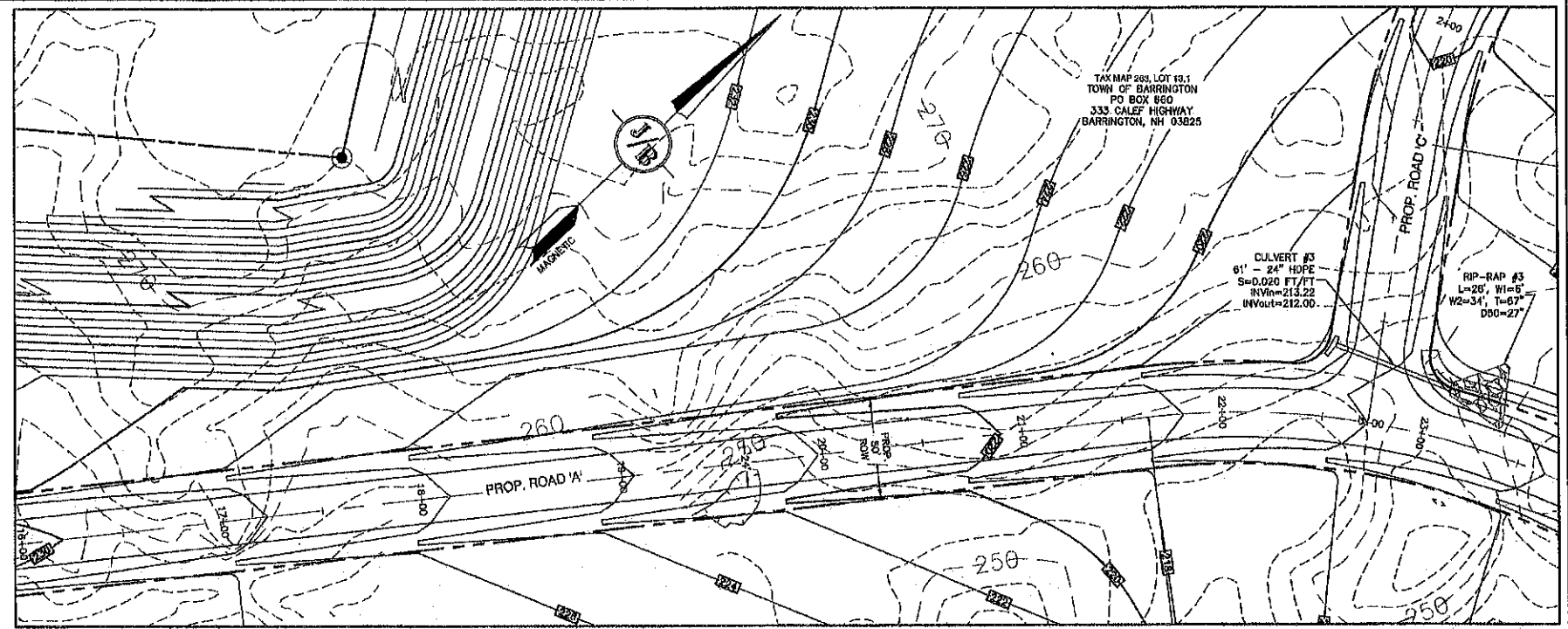
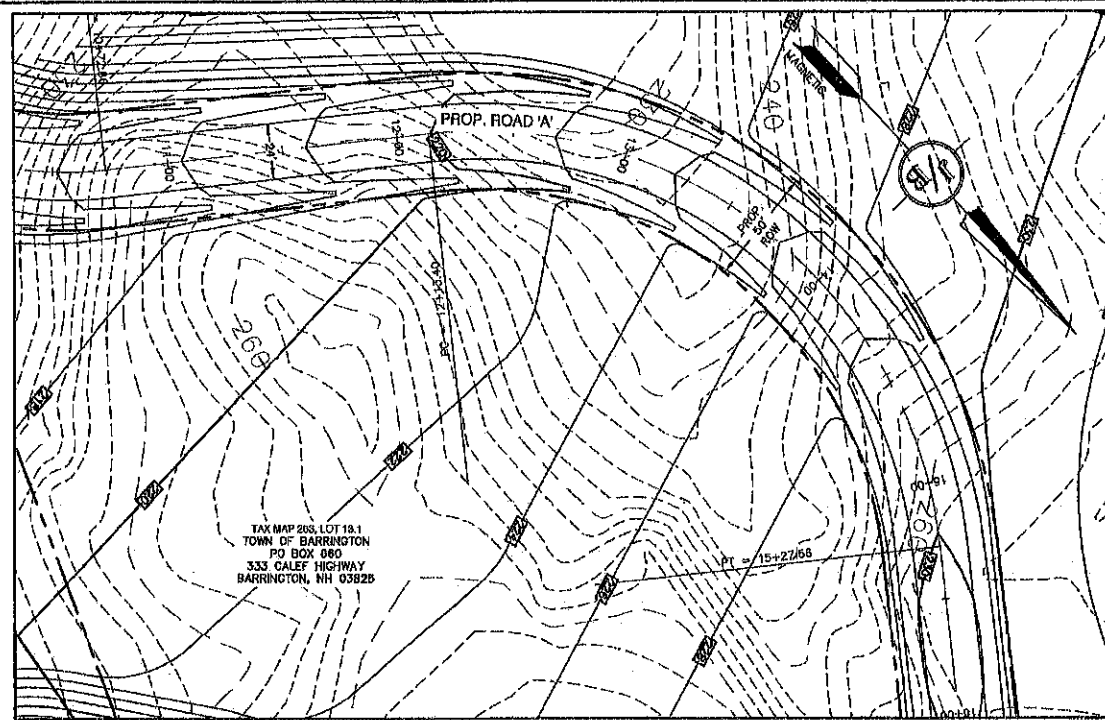
Designed and Produced in NH

J/B Jones & Beach Engineers, Inc.
Civil Engineering Services

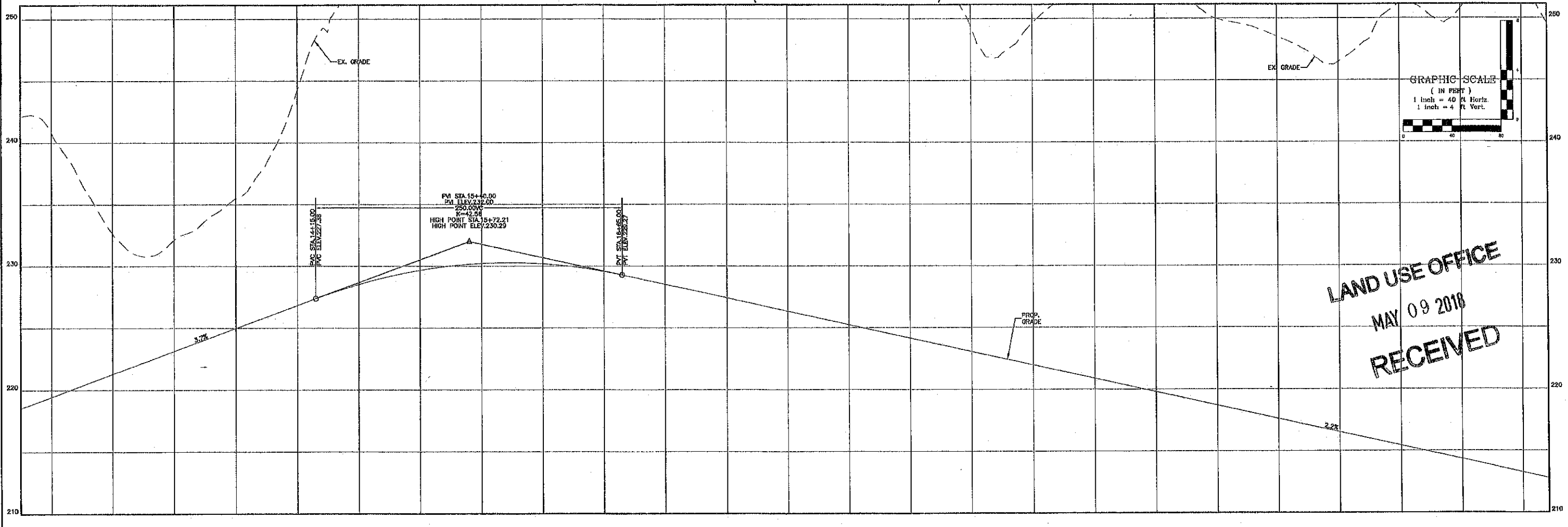
85 Portsmouth Ave. 603-772-4746
 PO Box 219 FAX: 603-772-0227
 Stratham, NH 03885 E-MAIL: JBE@JONESANDBEACH.COM

Plan Name: **CONCEPTUAL GRADING PLAN**
 MAP 253, LOTS 13.1, 13.2, 13, & 19
 Project: **HARD ROCK EXCAVATION**
 PIERCE RD & CALEF HIGHWAY, BARRINGTON, NH
 Owner of Record: **LIBERTY INTL TRUCK OF BARRINGTON**
 TOWN OF BARRINGTON

DRAWING No.
PP1
 SHEET 14 OF 19
 JBE PROJECT NO. 17082



ROAD 'A' - PLAN & PROFILE (STA 11+75 - STA 24+00)



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Design: BWG Draft: GDR Date: 06/07/2018
 Checked: BWG Scale: AS SHOWN Project No.: 17082
 Drawing Name: 17082-PLAN.dwg
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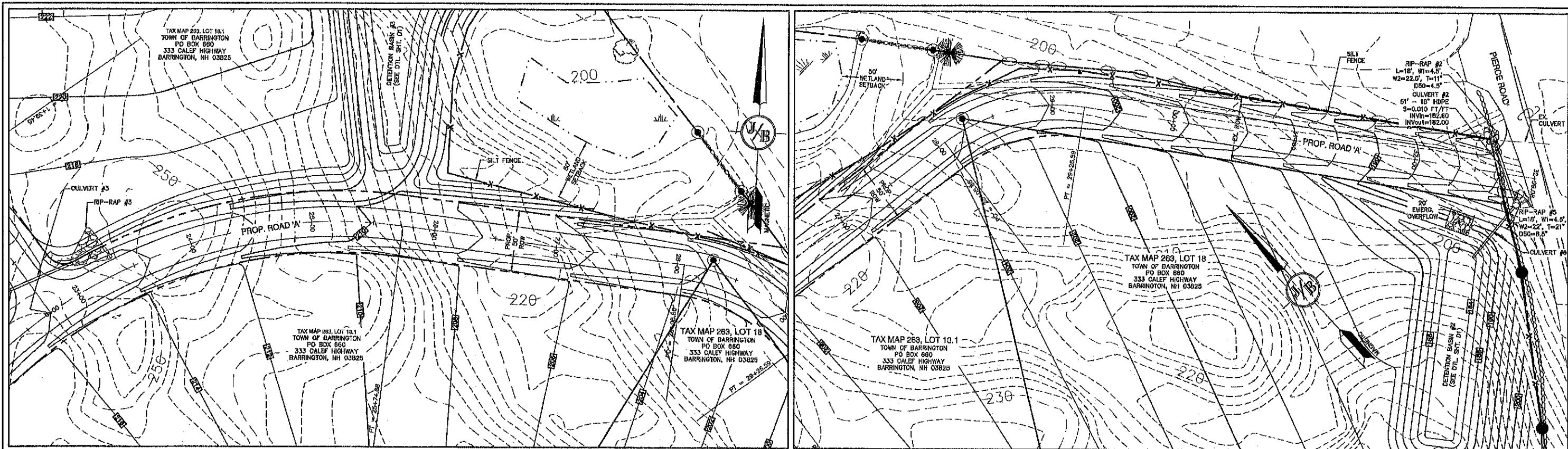
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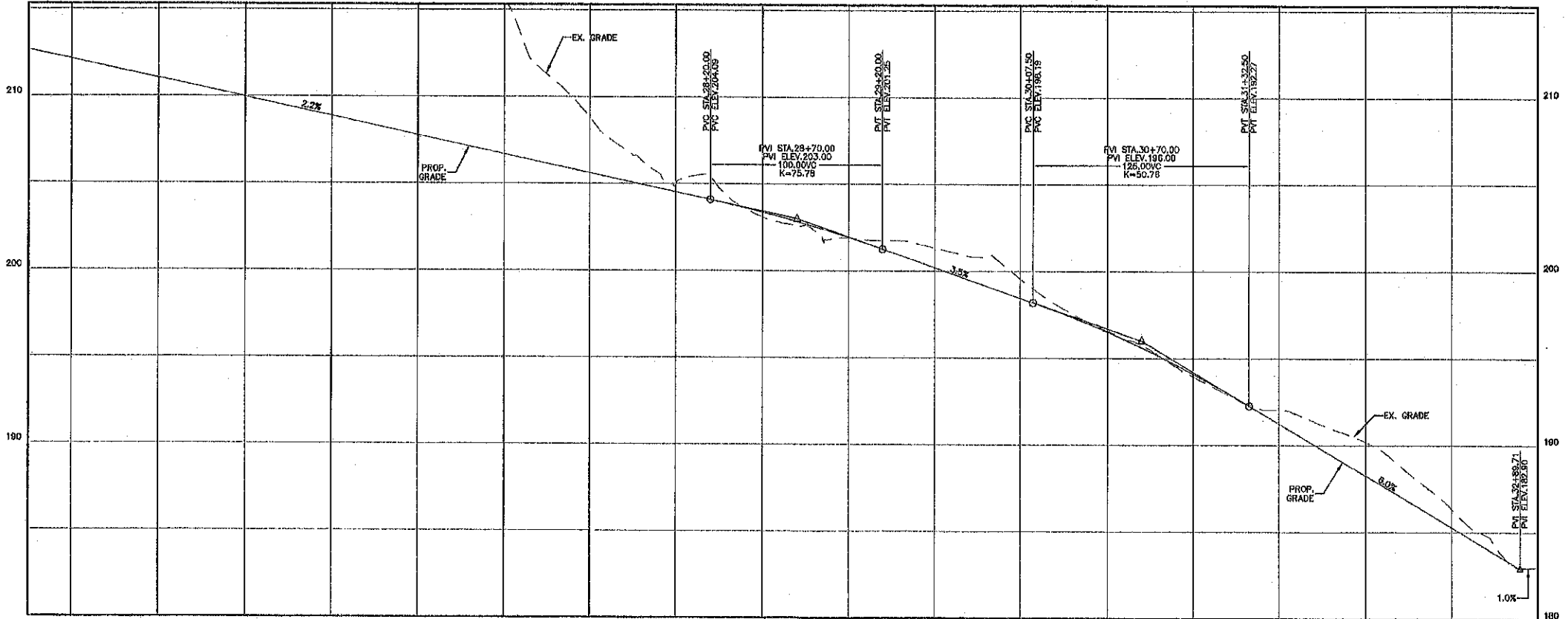
85 Portsmouth Ave. 603-772-4746
 PO Box 219 FAX: 603-772-0227
 Stratham, NH 03885 E-MAIL: JBE@JONESANDBEACH.COM

Plan Name: **PLAN AND PROFILE - ROAD 'A'**
 MAP 283, LOT 13.1, 13.2, 18, & 19
 Project: **HARD ROCK EXCAVATION
 PIERCE RD & CALEF HIGHWAY, BARRINGTON, NH**
 Owner of Record: **LIBERTY INTL TRUCK OF BARRINGTON
 TOWN OF BARRINGTON**

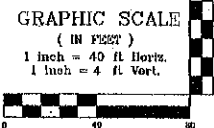
DRAWING No.
PP2
 SHEET 16 OF 19
 JBE PROJECT NO. 17082



ROAD 'A' - PLAN & PROFILE (STA 24+50 - STA 32+99.08)



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Drawing Name: 17082-PLAN.dwg
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PO Box 219 | FAX: 603-772-0227
Stratham, NH 03885 | E-MAIL: JBE@JONESANDBEACH.COM

Plan Name: **PLAN AND PROFILE - ROAD 'A'**
MAP 263, LOT 19.1, 19.2, 18, & 19

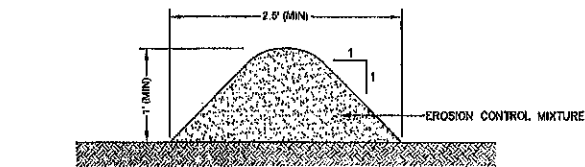
Project: **HARD ROCK EXCAVATION
PIERCE RD & CALEF HIGHWAY, BARRINGTON, NH**

Owner of Record: **LIBERTY INTL TRUCK OF BARRINGTON
TOWN OF BARRINGTON**

DRAWING No.
PP3
SHEET 16 OF 19
JBE PROJECT NO. 17082

TEMPORARY EROSION CONTROL NOTES

- THE SMALLEST PRACTICAL AREA OF LAND SHALL BE EXPOSED AT ANY ONE TIME. CONTRACTOR SHALL LIMIT THE AREA OF EXPOSED SOIL TO THE MINIMAL PRACTICABLE PRIOR TO STABILIZING.
- EROSION, SEDIMENT AND DETENTION MEASURES SHALL BE INSTALLED AS SHOWN ON THE PLANS AND AT LOCATIONS AS REQUIRED, DIRECTED BY THE ENGINEER.
- ALL DISTURBED AREAS (INCLUDING POND AREAS BELOW THE PROPOSED WATERLINE) SHALL BE RETURNED TO PROPOSED GRADES AND ELEVATIONS. DISTURBED AREAS SHALL BE LOAMED WITH A MINIMUM OF 6" OF SCREENED ORGANIC LOAM AND SEEDED WITH SEED MIXTURE "C" AT A RATE NOT LESS THAN 1.10 POUNDS OF SEED PER 1,000 S.F. OF AREA (48 LBS. / ACRE).
- SILT FENCES AND OTHER BARRIERS SHALL BE INSPECTED EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF A RAINFALL OF 0.25" OR GREATER. ALL DAMAGED AREAS SHALL BE REPAIRED, AND SEDIMENT DEPOSITS SHALL PERIODICALLY BE REMOVED AND DISPOSED OF.
- AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED, THE TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED AND THE AREA DISTURBED BY THE REMOVAL SMOOTHED AND RE-VEGETATED.
- AREAS MUST BE SEEDED AND MULCHED OR OTHERWISE PERMANENTLY STABILIZED WITHIN 3 DAYS OF FINAL GRADING, OR TEMPORARILY STABILIZED WITHIN 14 DAYS OF THE INITIAL DISTURBANCE OF SOIL. ALL AREAS SHALL BE STABILIZED WITHIN 45 DAYS OF INITIAL DISTURBANCE TO THE EXTENT PRACTICABLE.
- ALL PROPOSED VEGETATED AREAS THAT DO NOT EXHIBIT A MINIMUM OF 85 PERCENT VEGETATIVE GROWTH BY OCTOBER 15, OR WHICH ARE DISTURBED AFTER OCTOBER 15, SHALL BE STABILIZED BY SEEDING AND INSTALLING NORTH AMERICAN GREEN STY5 EROSION CONTROL BLANKETS (OR AN EQUIVALENT APPROVED IN WRITING BY THE ENGINEER) ON SLOPES GREATER THAN 3:1, AND SEEDING AND PLACING 3 TO 4 TONS OF MULCH PER ACRE, SECURED WITH ANCHORED NETTING, ELSEWHERE. THE INSTALLATION OF EROSION CONTROL BLANKETS OR MULCH AND NETTING SHALL NOT OCCUR OVER ACCUMULATED SNOW OR ON FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SPRING MELT EVENTS.
- ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85 PERCENT VEGETATIVE GROWTH BY OCTOBER 15, OR WHICH ARE DISTURBED AFTER OCTOBER 15, SHALL BE STABILIZED TEMPORARILY WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS.
- AFTER NOVEMBER 15th, INCOMPLETE ROAD OR PARKING SURFACES, WHERE WORK HAS STOPPED FOR THE WINTER SEASON, SHALL BE PROTECTED WITH A MINIMUM OF 3" OF CRUSHED GRAVEL PER NHDOT ITEM 304.3.
- AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:
 - BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED;
 - A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED;
 - A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH STONE OR RIPRAP HAS BEEN INSTALLED; OR
 - EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.
- FUGITIVE DUST CONTROL IS REQUIRED TO BE CONTROLLED IN ACCORDANCE WITH ENV-A 1000, AND THE PROJECT IS TO MEET THE REQUIREMENTS AND INTENT OF RSA 430:53 AND AGR 3500 RELATIVE TO INVASIVE SPECIES.
- PRIOR TO CONSTRUCTION, A PHASING PLAN THAT DELINEATES EACH PHASE OF THE PROJECT SHALL BE SUBMITTED. ALL TEMPORARY SEDIMENT BASINS THAT WILL BE NEEDED FOR DEWATERING WORK AREAS SHALL BE LOCATED AND IDENTIFIED ON THIS PLAN.
- IN ORDER TO ENSURE THE STABILITY OF THE SITE AND EFFECTIVE IMPLEMENTATION OF THE SEDIMENT AND EROSION CONTROL MEASURES SPECIFIED IN THE PLANS FOR THE DURATION OF CONSTRUCTION, THE CONTRACTOR SHALL BE IN STRICT COMPLIANCE WITH THE FOLLOWING INSPECTION AND MAINTENANCE REQUIREMENTS IN ADDITION TO THOSE CALLED FOR IN THE SHEET:
 - A CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL OR A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW HAMPSHIRE ("MONITOR") SHALL BE EMPLOYED TO INSPECT THE SITE FROM THE START OF ALTERATION OF TERRAIN ACTIVITIES UNTIL THE SITE IS IN FULL COMPLIANCE WITH THE SITE SPECIFIC PERMIT ("PERMIT").
 - DURING THIS PERIOD, THE MONITOR SHALL INSPECT THE SUBJECT SITE AT LEAST ONCE A WEEK, AND IF POSSIBLE, DURING ANY 1/2 INCH OR GREATER RAIN EVENT (I.E. 1/2 INCH OF PRECIPITATION OR MORE WITHIN A 24 HOUR PERIOD). IF UNABLE TO BE PRESENT DURING SUCH A STORM, THE MONITOR SHALL INSPECT THE SITE WITHIN 24 HOURS OF THIS EVENT.
 - THE MONITOR SHALL PROVIDE TECHNICAL ASSISTANCE AND RECOMMENDATIONS TO THE CONTRACTOR ON THE APPROPRIATE BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROLS REQUIRED TO MEET THE REQUIREMENTS OF RSA 485 A:17 AND ALL APPLICABLE DES PERMIT CONDITIONS.



NOTES:

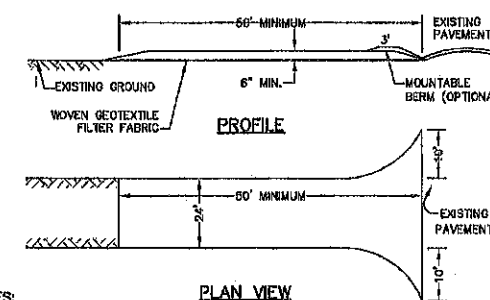
- ORGANIC FILTER BERMS MAY BE UTILIZED IN LIEU OF SILT FENCE, UNLESS OTHERWISE SPECIFIED.
- THE EROSION CONTROL MIX USED IN THE FILTER BERMS SHALL BE A WELL-GRADED MIXTURE OF PARTICLE SIZES, MAY CONTAIN ROCKS LESS THAN 4" IN DIAMETER, STUMP GRINDINGS, SHREDDED OR COMPOSTED BARK, OR ACCEPTABLE MANUFACTURED PRODUCTS, AND SHALL BE FREE OF REFUSE, PHYSICAL CONTAMINANTS, AND MATERIAL TOXIC TO PLANT GROWTH AND SHALL MEET THE FOLLOWING STANDARDS:
 - THE ORGANIC CONTENT SHALL BE 80-100% OF DRY WEIGHT.
 - PARTICLE SIZE BY WEIGHT SHALL BE 100% PASSING A 6" SCREEN, AND 70-80% PASSING A 0.75" SCREEN.
 - THE ORGANIC PORTION SHALL BE FIBROUS AND ELONGATED.
 - LARGE PORTIONS OF SILTS, CLAYS, OR FINE SANDS SHALL NOT BE INCLUDED IN THE MIXTURE.
 - SOLUBLE SALTS CONTENT SHALL BE >0.0mmhos/cm.
 - THE PH SHALL BE BETWEEN 5.0 AND 8.0.
- ORGANIC FILTER BERMS SHALL BE INSTALLED ALONG A RELATIVELY LEVEL CONTOUR. IT MAY BE NECESSARY TO CUT TALL GRASSES OR WOODY VEGETATION TO AVOID CREATING VOIDS AND BRIDGES THAT WOULD ENABLE FINES TO WASH UNDER THE BERM.
- ON SLOPES LESS THAN 6%, OR AT THE BOTTOM OF SLOPES STEEPER THAN 3:1, UP TO 20' LONG, THE BERM SHALL BE A MINIMUM OF 12" HIGH (AS MEASURED ON THE UPHILL SIDE), AND A MINIMUM OF 36" WIDE. ON LONGER OR STEEPER SLOPES, THE BERM SHALL BE WIDER TO ACCOMMODATE THE POTENTIAL ADDITIONAL RUNOFF.
- FROZEN GROUND, OUTCROPS OF BEDROCK, AND VERY ROOTED FORESTED AREAS PRESENT THE MOST PRACTICAL AND EFFECTIVE LOCATIONS FOR ORGANIC FILTER BERMS. OTHER BMP'S SHOULD BE USED AT LOW POINTS OF CONCENTRATED RUNOFF, BELOW CULVERT OUTLET APRONS, AROUND CATCH BASINS, AND AT THE BOTTOM OF STEEP PERIMETER SLOPES THAT HAVE A LARGE CONTRIBUTING AREA.
- SEDIMENT SHALL BE REMOVED FROM BEHIND THE STRUCTURES WHEN IT HAS ACCUMULATED TO ONE HALF THE ORIGINAL HEIGHT OF THE STRUCTURE.
- STRUCTURES MAY BE LEFT IN PLACE ONCE THE SITE IS STABILIZED.

ORGANIC FILTER BERM

NOT TO SCALE

SEEDING SPECIFICATIONS

- GRADING AND SHAPING**
 - SLOPES SHALL NOT BE STEEPER THAN 2:1 WITHOUT APPROPRIATE EROSION CONTROL MEASURES AS SPECIFIED ON THE PLANS (3:1 SLOPES OR FLATTER ARE PREFERRED).
 - WHERE MOWING WILL BE DONE, 3:1 SLOPES OR FLATTER ARE RECOMMENDED.
- SEEDBED PREPARATION**
 - SURFACE AND SEEPAGE WATER SHOULD BE DRAINED OR DIVERTED FROM THE SITE TO PREVENT DROWNING OR WINTER KILLING OF THE PLANTS.
 - STONES LARGER THAN 4 INCHES AND TRASH SHOULD BE REMOVED BECAUSE THEY INTERFERE WITH SEEDING AND FUTURE MAINTENANCE OF THE AREA. WHERE FEASIBLE, THE SOIL SHOULD BE TILLED TO A DEPTH OF ABOUT 4 INCHES TO PREPARE A SEEDBED AND FERTILIZER AND LIME MIXED 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.
- ESTABLISHING A STAND**
 - LIME AND FERTILIZER SHOULD BE APPLIED PRIOR TO OR AT THE TIME OF SEEDING AND INCORPORATED INTO THE SOIL. TYPES AND AMOUNTS OF LIME AND FERTILIZER SHOULD BE BASED ON AN EVALUATION OF SOIL TESTS. WHEN A SOIL TEST IS NOT AVAILABLE, THE FOLLOWING MINIMUM AMOUNTS SHOULD BE APPLIED:
 - AGRICULTURAL LIVESTONE, 2 TONS PER ACRE OR 100 LBS. PER 1,000 SQ.FT.
 - NITROGEN(N), 50 LBS. PER ACRE OR 1.1 LBS. PER 1,000 SQ.FT.
 - PHOSPHATE(P2O5), 100 LBS. PER ACRE OR 2.2 LBS. PER 1,000 SQ.FT.
 - POTASH(K2O), 100 LBS. PER ACRE OR 2.2 LBS. PER 1,000 SQ.FT.
 (NOTE: THIS IS THE EQUIVALENT OF 500 LBS. OF 10-20-20 FERTILIZER OR 1,000 LBS. PER ACRE OF 8-10-10.)
 - SEED SHOULD BE SPREAD UNIFORMLY BY THE METHOD MOST APPROPRIATE FOR THE SITE. METHODS INCLUDE BROADCASTING, DRILLING AND HYDROSEEDING. WHERE BROADCASTING IS USED, COVER SEED WITH 25 INCH OF SOIL OR LESS, BY CULTIPACKING OR RAKING.
 - REFER TO THE "SEEDING GUIDE" AND "SEEDING RATES" TABLES ON THIS SHEET FOR APPROPRIATE SEED MIXTURES AND RATES OF SEEDING. ALL LEGUMES (CROWN VETCH, BIRD'S FOOT, TREFOL AND FLATPEA) MUST BE INOCULATED WITH THEIR SPECIFIC INOCULANT PRIOR TO THEIR INTRODUCTION TO THE SITE.
 - WHEN SEEDING AREAS ARE MULCHED, PLANTINGS MAY BE MADE FROM EARLY SPRING TO EARLY OCTOBER. WHEN SEEDING AREAS ARE NOT MULCHED, PLANTINGS SHOULD BE MADE FROM EARLY SPRING TO MAY 20th OR FROM AUGUST 10th TO SEPTEMBER 1st.
- MULCH**
 - HAY, STRAW, OR OTHER MULCH, WHEN NEEDED, SHOULD BE APPLIED IMMEDIATELY AFTER SEEDING.
 - MULCH WILL BE HELD IN PLACE USING APPROPRIATE TECHNIQUES FROM THE BEST MANAGEMENT PRACTICE FOR MULCHING. HAY OR STRAW MULCH SHALL BE PLACED AT A RATE OF 90 LBS PER 1000 S.F.
- MAINTENANCE TO ESTABLISH A STAND**
 - PLANTED AREAS SHOULD BE PROTECTED FROM DAMAGE BY FIRE, GRAZING, TRAFFIC, AND DENSE WEED GROWTH.
 - 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 FULLY ESTABLISHED.
 - IN WATERWAYS, CHANNELS, OR SWALES WHERE UNIFORM FLOW CONDITIONS ARE ANTICIPATED, ANNUAL MOWING MAY BE NECESSARY TO CONTROL GROWTH OF WOODY VEGETATION.

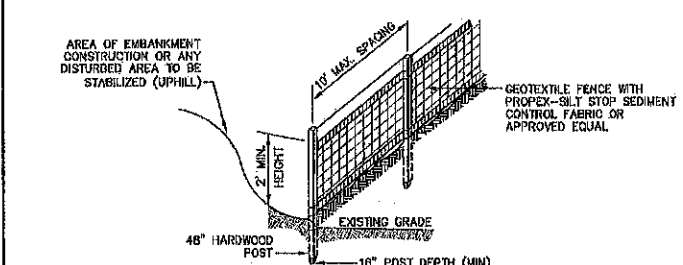


NOTES:

- STONE FOR STABILIZED CONSTRUCTION ENTRANCE SHALL BE 1 TO 2 INCH STONE, RECLAIMED STONE, OR RECYCLED CONCRETE EQUIVALENT.
- THE LENGTH OF THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 60 FEET, EXCEPT FOR A SINGLE RESIDENTIAL LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY.
- THICKNESS OF THE STONE FOR THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 6 INCHES.
- THE WIDTH OF THE ENTRANCE SHALL NOT BE LESS THAN THE FULL WIDTH OF THE ENTRANCE WHERE INGRESS OR EGRESS OCCURS. ON 10 FEET, WHICHEVER IS GREATER.
- GEOTEXTILE FILTER FABRIC SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING THE STONE. FILTER FABRIC IS NOT REQUIRED FOR A SINGLE FAMILY RESIDENTIAL LOT.
- ALL SURFACE WATER THAT IS FLOWING TO OR DIVERTED TOWARD THE CONSTRUCTION ENTRANCE SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A STONE BEAM WITH 6:1 SLOPES THAT CAN BE CROSSED BY VEHICLES MAY BE SUBSTITUTED FOR THE PIPE.
- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO THE PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, WASHED, OR TRACKED ONTO THE PUBLIC RIGHT-OF-WAY MUST BE REMOVED PROMPTLY.

STABILIZED CONSTRUCTION ENTRANCE

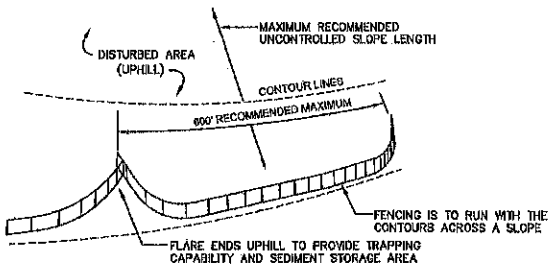
NOT TO SCALE



- CONSTRUCTION SPECIFICATIONS:**
- WOVEN FABRIC FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. FILTER CLOTH SHALL BE FASTENED TO WOVEN WIRE EVERY 24" AT TOP, MID AND BOTTOM AND EMBEDDED IN THE GROUND A MINIMUM OF 6" AND THEN COVERED WITH SOIL.
 - THE FENCE POSTS SHALL BE A MINIMUM OF 48" LONG, SPACED A MAXIMUM 10' APART, AND DRIVEN A MINIMUM OF 18" INTO THE GROUND.
 - WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THE ENDS OF THE FABRIC SHALL BE OVERLAPPED 6", FOLDED AND STAPLED TO PREVENT SEDIMENT FROM BY-PASSING.
 - MAINTENANCE SHALL BE PERFORMED AS NEEDED AND SEDIMENT REMOVED AND PROPERLY DISPOSED OF WHEN IT IS 6" DEEP OR VISIBLE 'BULGES' DEVELOP IN THE SILT FENCE.
 - PLACE THE ENDS OF THE SILT FENCE UP CONTOUR TO PROVIDE FOR SEDIMENT STORAGE.

SILT FENCE

NOT TO SCALE



- SILT FENCES SHALL BE REMOVED WHEN NO LONGER NEEDED AND THE SEDIMENT COLLECTED SHALL BE DISPOSED AS DIRECTED BY THE ENGINEER. THE AREA DISTURBED BY THE REMOVAL SHALL BE SMOOTHED AND REVEGETATED.
- MAINTENANCE:**
- SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS THAT ARE REQUIRED SHALL BE DONE IMMEDIATELY.
 - IF THE FABRIC ON A SILT FENCE SHOULD DECOMPOSE OR BECOME INEFFECTIVE DURING THE EXPECTED LIFE OF THE FENCE, THE FABRIC SHALL BE REPLACED PROMPTLY.
 - SEDIMENT DEPOSITS SHOULD BE INSPECTED AFTER EVERY STORM EVENT. THE DEPOSITS SHOULD BE REMOVED WHEN THEY REACH APPROXIMATELY ONE HALF THE HEIGHT OF THE BARRIER.
 - SEDIMENT DEPOSITS THAT ARE REMOVED, OR LEFT IN PLACE AFTER THE FABRIC HAS BEEN REMOVED, SHALL BE GRADED TO CONFORM WITH THE EXISTING TOPOGRAPHY AND VEGETATED.

USE	SEEDING MIXTURE 1/	DROUGHTY	WELL DRAINED	MODERATELY WELL DRAINED	POORLY DRAINED
STEEP CUTS AND FILLS, DORROW AND DISPOSAL AREAS	A	FAIR	GOOD	GOOD	FAIR
	B	POOR	GOOD	FAIR	FAIR
	C	POOR	GOOD	EXCELLENT	GOOD
WATERWAYS, EMERGENCY SPILLWAYS, AND OTHER CHANGELS WITH FLOWING WATER	A	GOOD	GOOD	GOOD	FAIR
	B	GOOD	EXCELLENT	EXCELLENT	FAIR
	C	GOOD	EXCELLENT	EXCELLENT	FAIR
LIGHTLY USED PARKING LOTS, ODD AREAS, UNUSED LANDS, AND LOW INTENSITY USE RECREATION SITES	A	GOOD	GOOD	GOOD	FAIR
	B	GOOD	GOOD	FAIR	POOR
	C	GOOD	EXCELLENT	EXCELLENT	FAIR
PLAY AREAS AND ATHLETIC FIELDS (TOPSOIL IS ESSENTIAL FOR GOOD TURF)	E	FAIR	EXCELLENT	EXCELLENT	ZZ
	F	FAIR	EXCELLENT	EXCELLENT	ZZ
GRAVEL PIT, SEE NH-FM-24 IN APPENDIX FOR RECOMMENDATION REGARDING RECLAMATION OF SAND AND GRAVEL PITS.					
1/ REFER TO SEEDING MIXTURES AND RATES IN TABLE BELOW.					
ZZ POORLY DRAINED SOILS ARE NOT DESIRABLE FOR USE AS PLAYING AREA AND ATHLETIC FIELDS.					
NOTE: TEMPORARY SEED MIX FOR STABILIZATION OF TURF SHALL BE WINTER RYE OR OATS AT A RATE OF 2.8 LBS. PER 1000 S.F. AND SHALL BE PLACED PRIOR TO OCTOBER 15th. IF PERMANENT SEEDING NOT YET COMPLETE.					

SEEDING GUIDE

MIXTURE	POUNDS PER ACRE	POUNDS PER 1,000 SQ. FT.
A. TALL FESCUE	20	0.45
CREeping RED FESCUE	20	0.45
RED TOP	2	0.05
TOTAL	42	0.95
B. TALL FESCUE	15	0.35
CREeping RED FESCUE	10	0.25
CROWN VETCH OR FLAT PEA	30	0.75
TOTAL	40 OR 55	0.95 OR 1.35
C. TALL FESCUE	20	0.45
CREeping RED FESCUE	20	0.45
BIRD'S FOOT TREFOL	8	0.20
TOTAL	48	1.10
D. TALL FESCUE	20	0.45
FLAT PEA	30	0.75
TOTAL	50	1.20
E. CREeping RED FESCUE 1/2	50	1.15
KENTUCKY BLUEGRASS 1/2	50	1.15
TOTAL	100	2.30
F. TALL FESCUE 1	150	3.60

SEEDING RATES

Design: BWG | Draft: GDR | Date: 06/07/2018
 Checked: BWG | Scale: AS NOTED | Project No.: 17082
 Drawing Name: 17082-PLAN.dwg

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REV.	DATE	REVISION	BY
0	06/07/18	ISSUED FOR REVIEW	BWG

Designed and Produced in NH

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Plan Name: **EROSION AND SEDIMENT CONTROL DETAILS**

Project: **HARD ROCK EXCAVATION PIERCE RD & CALEF HIGHWAY, BARRINGTON, NH**

Owner of Record: **LIBERTY INTL. TRUCK OF BARRINGTON TOWN OF BARRINGTON**

DRAWING No. **E1**

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