

# BROX INDUSTRIES, INC. BARRINGTON QUARRY SITE PLAN APPLICATION OCTOBER 12, 2020



**LOCUS PLAN**  
SCALE 1 : 24,000

**SHEET INDEX**


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- SHEET 4 - GRADING PLAN - PROPOSED PERMIT
- SHEET 5 - PROPOSED CHANGE 100 SC**
- SHEET 6 - SURVEY PLAN
- SHEET 7 - DETAIL SHEET



PREPARED BY:  
RESPEC  
NORTH AMERICAN RESERVE DIVISION  
67 WATER STREET, SUITE 108  
LACONIA, NH 03246  
www.respec.com

REVISION	BY	DATE	DESCRIPTION

**GRAPHIC SCALE**



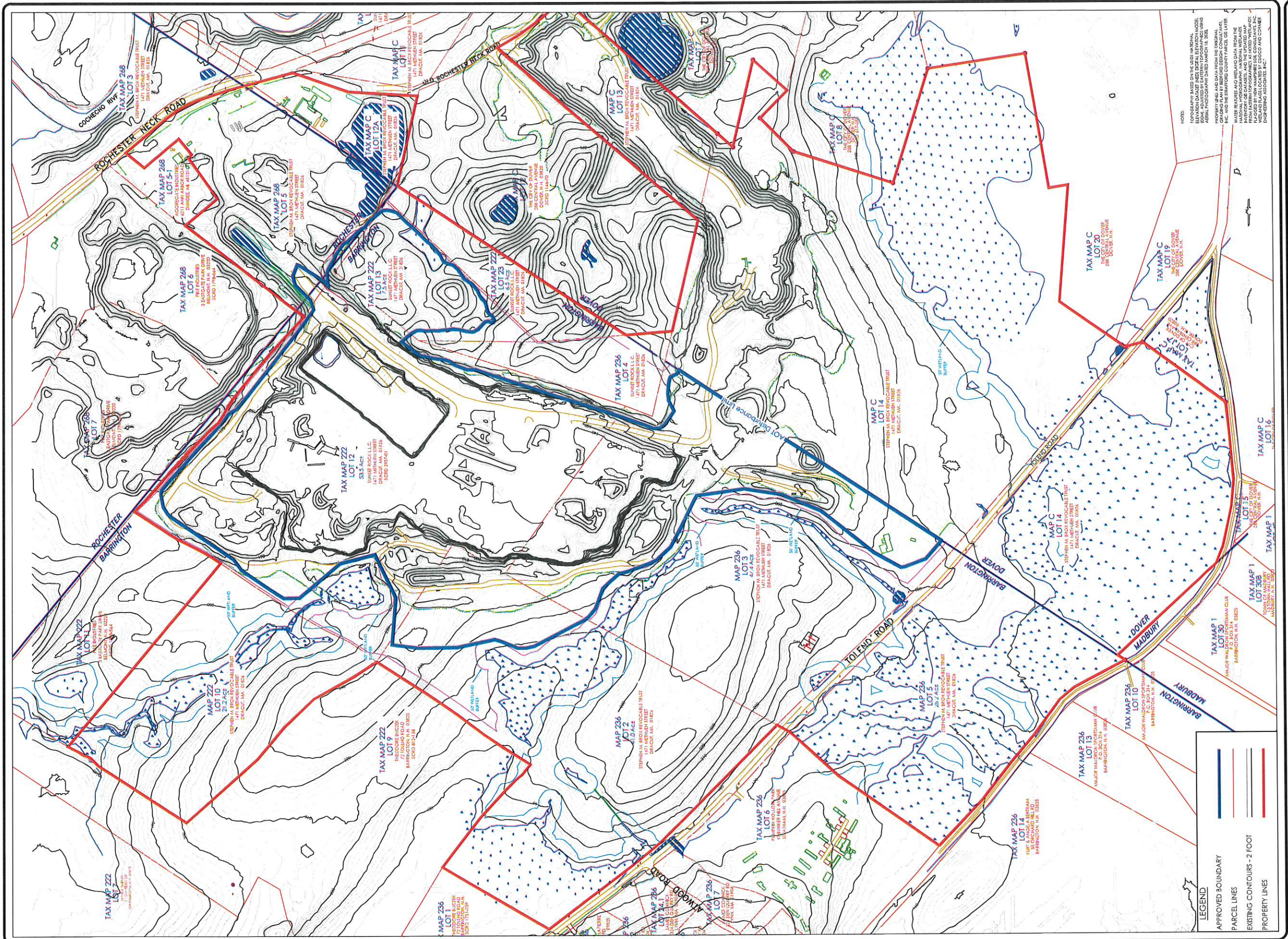
1 inch = 2000 ft.

**TITLE SHEET**

253 ROCHESTER NECK ROAD  
ROCHESTER, NEW HAMPSHIRE  
AOT PERMIT - 0034

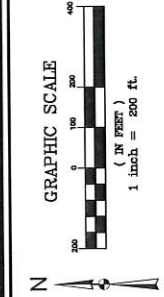
**BROX INDUSTRIES, INC.**  
1471 METHEUN STREET,  
DRACUT, MASSACHUSETTS 01826

SHEET 1 OF 7	FILE BARR-2020.DWG	DATE 10/12/2020
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NOTE:  
ELEVATIONS BASED ON THE USGS NATIONAL  
ELEVATION DATA SET (NED) AND THE  
USGS NATIONAL HYDROGRAPHIC DATA SET  
(NHED). ADJUSTED TO ELEVATION OF GROUND LEVEL  
AS PER PHOTOGRAPHIC AND AERIAL PHOTOGRAPHY  
DATED MARCH 18, 2020.  
WATER FEATURES AND WETLAND DATA FROM THE  
USGS NATIONAL HYDROGRAPHIC DATA SET (NHED) AND  
THE NATIONAL WETLANDS INVENTORY (NWI). THE  
WETLANDS INVENTORY (NWI) DATA IS A  
COMPOSITE OF DATA FROM THE NATIONAL  
WETLANDS INVENTORY (NWI) AND THE  
NATIONAL WETLANDS INVENTORY (NWI).  
WETLANDS FLAGGED BY CHOCO AND CORNER  
DURING SURVEYING.

LEGEND  
APPROVED BOUNDARY  
PARCEL LINES  
EXISTING CONTOURS - 2 FOOT  
PROPERTY LINES



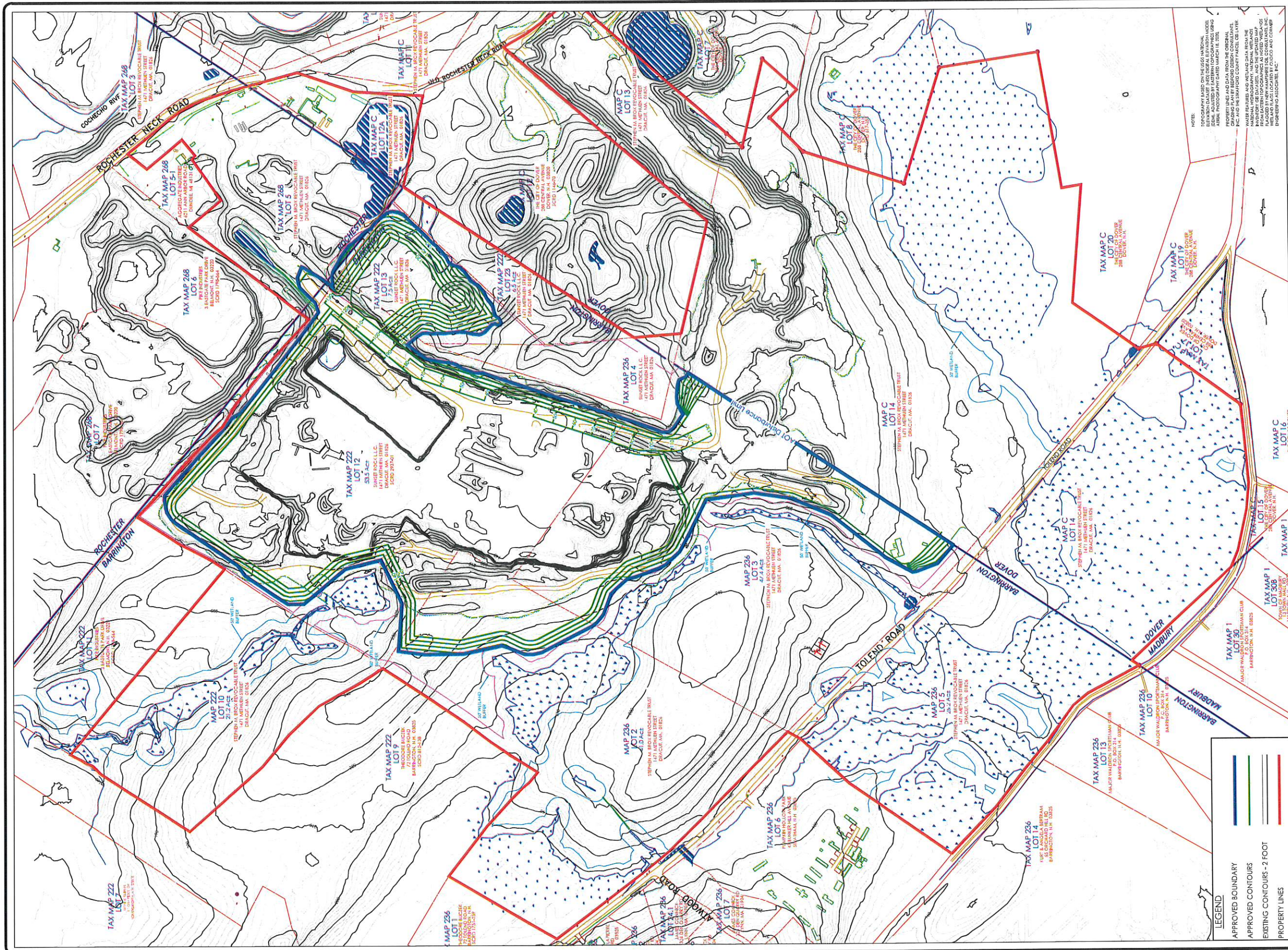
SITE PLAN OVERVIEW  
FOR SITE PLAN APPLICATION  
(TAX MAP 222 LOTS 12 & 13 AND  
TAX MAP 236 LOTS 2, 3 & 4)  
BROX INDUSTRIES, INC.  
TOLEND ROAD  
BARRINGTON, NEW HAMPSHIRE

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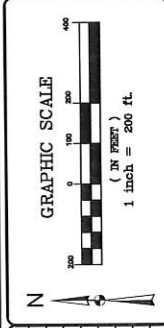


SHEET 2 OF 7  
FILE BARR-2020.DWG  
DATE 10/12/2020



NOTES:  
 TOPOGRAPHY BASED ON THE USGS NATIONAL  
 ELEVATION DATUM (NAD 83) WITH THE  
 DATA PROVIDED BY THE BARRINGTON  
 AERIAL PHOTOGRAPHY DATED MARCH 18, 2019.  
 PROPERTY LINES AND DATA FROM THE ORIGINAL  
 MAPS AND THE BARRINGTON COUNTY FACILITY DELAYER  
 AND THE BARRINGTON COUNTY FACILITY DELAYER  
 WATER FEATURES AND WELAND DATA FROM THE  
 NATIONAL HYDROGRAPHY NATIONAL WELANDS  
 FROM EASTERN TOPOGRAPHICS AS NOTED WELANDS  
 WELAND DATA LOCATED BY THE  
 ENGINEERING ASSOCIATE, INC.

**GRADING PLAN - CURRENT**  
**FOR SITE PLAN APPLICATION**  
 (TAX MAP 222 LOTS 12 & 13 AND  
 TAX MAP 236 LOTS 2, 3 & 4)  
**BROX INDUSTRIES, INC.**  
**TOLEND ROAD**  
**BARRINGTON, NEW HAMPSHIRE**



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SHEET  
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 FILE  
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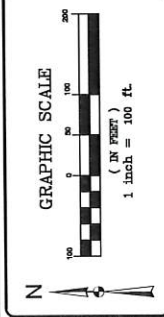




INFORMATION BASED ON THE USGS NATIONAL ELEVATION DATASET (NED) DIGITAL ELEVATION MODEL (DEM) DATA, PHOTOGRAPHY DATED MARCH 16, 2020. HORIZONTAL LINES AND DATA FROM THE ORIGINAL GRADING PLAN BY REDFORD DESIGN CONSULTANTS, INC. AND THE BARRINGTON COUNTY PUBLIC UTILITIES DEPARTMENT OR DATA, AND THE UPDATED AREA FLAGGED BY NEW HAMPSHIRE SOIL CONSULTANTS, INC. AND THE BARRINGTON COUNTY PUBLIC UTILITIES DEPARTMENT.

SHEET 5 OF 7  
 FILE BARR-2020.DWG  
 DATE 10/12/2020

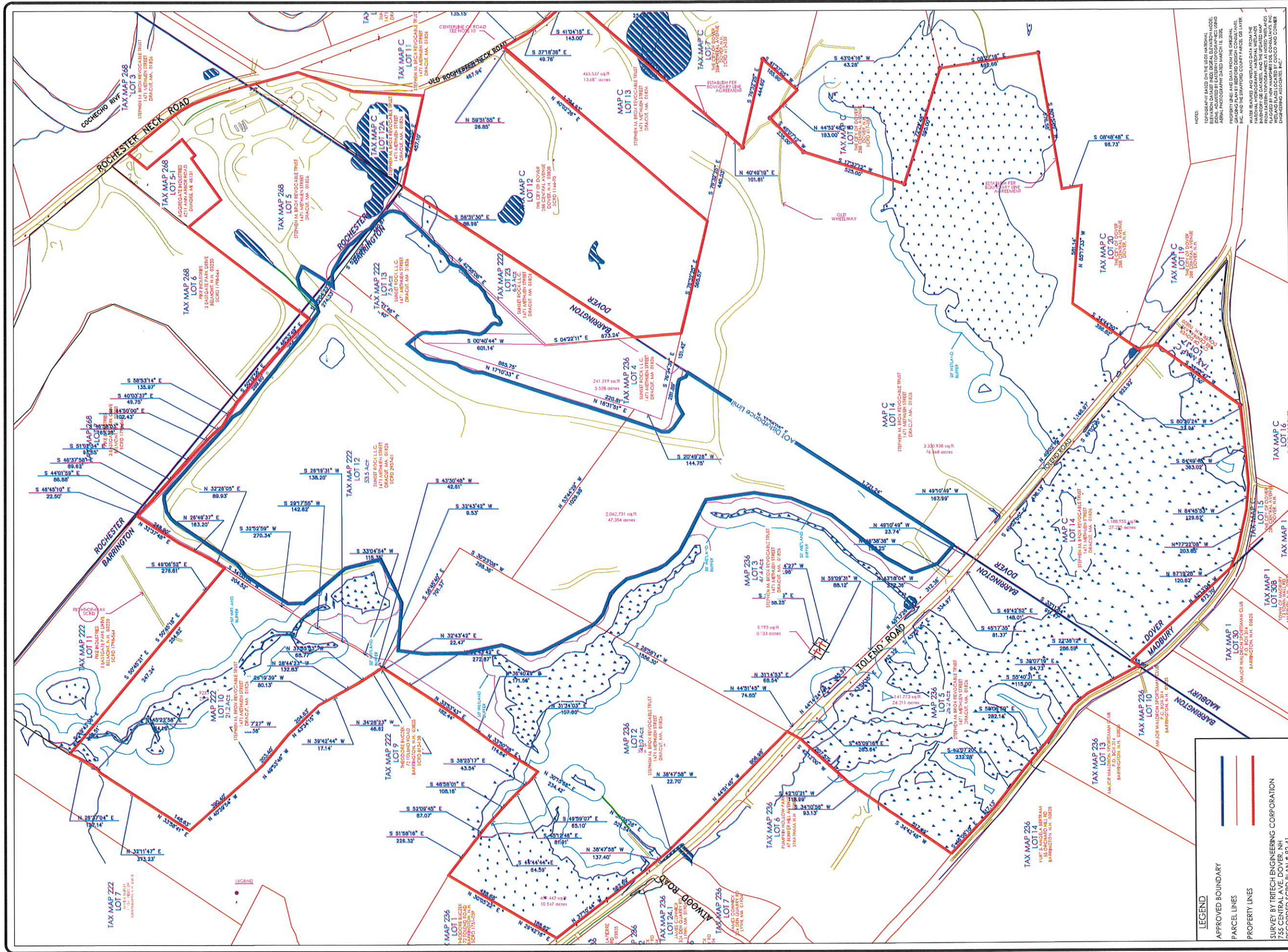
**PROPOSED CHANGES FOR SITE PLAN APPLICATION (TAX MAP 222 LOTS 12 & 13 AND TAX MAP 236 LOTS 2, 3 & 4)**  
 BROX INDUSTRIES, INC.  
 TOLEND ROAD  
 BARRINGTON, NEW HAMPSHIRE



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**SURVEY PLAN**  
FOR SITE PLAN APPLICATION  
(TAX MAP 222 LOTS 12 & 13 AND  
TAX MAP 236 LOTS 2, 3 & 4)

**BROX INDUSTRIES, INC.**  
TOLEND ROAD  
BARRINGTON, NEW HAMPSHIRE

**GRAPHIC SCALE**  
( IN FEET )  
1 inch = 200 ft

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**SHEET**  
6 OF 7

**FILE**  
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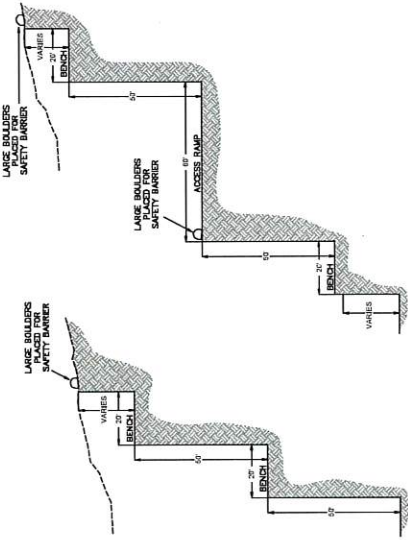
**DATE**  
10/12/2020

**PROJECT NOTES**

1. THE INTENT OF THIS PLAN IS TO SHOW THE PROPOSED EXPANSION TO AN EXISTING EXCAVATION OPERATION.
2. SURVEY BY TRITECH ENGINEERING CORPORATION, 755 CENTRAL AVE. DOVER, NH, RECORDED SORD PLAN # 92-41.
3. ZONING DISTRICT - GENERAL RESIDENTIAL.
4. THE SUBJECT PARCELS ARE NOT LOCATED WITHIN THE 100 YEAR FLOOD ZONE, DETERMINED BY FIRM MAP STAFFORD COUNTY, NH, PANEL 302 OF 405, MAP NUMBER 33017003020, MAY 2005.
5. WETLANDS FLAGGED BY NEW HAMPSHIRE SOIL CONSULTANTS, INC. WETLAND FLAGS LOCATED BY CLEGG AND CORNER ENGINEERING ASSOCIATES, INC.
6. TOPOGRAPHIC MAPPING BY EASTERN TOPOGRAPHICS ON MARCH 18, 2020.
7. EXISTING CONTOURS SHOWN ARE ON A 2 FOOT INTERVAL. PROPOSED CONTOURS ARE ON A 10 FOOT INTERVAL.
8. THE EXCAVATION OPERATION HAS BEEN APPROVED FOR THE ALTERATION OF TERRAIN UNDER PERMIT WFB-1321 DATED 3/29/06 AND PERMIT WFB-1301-A DATED 9/20/06. THE CURRENT PERMIT IS AOT-0034.
9. THE CURRENT AND FUTURE OPERATIONS OF THE SITE SHALL BE IN ACCORDANCE WITH THE "OPERATIONAL PLAN, BROX INDUSTRIES, INC., ROCHESTER NECK ROAD, ROCHESTER, NH DATED JUNE 19, 2009, REVISED ON SEPTEMBER 24, 2009, DEVELOPED BY NORTH AMERICAN RESERVE, LLC FOR BROX INDUSTRIES, INC.
10. AN ANNUAL REPORT SHALL BE SUBMITTED TO THE BARRINGTON PLANNING BOARD, PRIOR TO FEBRUARY 20TH, COMMENCING THE DATE AND RESULTS OF ANY ON SITE ASHA INSPECTION OCCURRING DURING THE PREVIOUS CALENDAR YEAR.

**DESIGN STANDARDS**

1. THE SMALLEST PRACTICAL AREA OF LAND SHALL BE EXPOSED AT ANY ONE TIME.
2. ALL EXISTING BROOKS, SURFACE WATERS, AND WETLAND AREAS WILL BE PROTECTED FROM SEDIMENT BY THE CONSTRUCTION AND MAINTENANCE OF HAY BALE BARRIERS AND/OR SILT FENCE AS APPROPRIATE.
3. EXCAVATION WILL BE PERFORMED TO CREATE 30" HIGHWALLS WITH 20" SAFETY BENCHES (TYPICAL). THE ACCESS RAMP WILL BE 60" WIDE WITH A MAXIMUM GRADE OF 10%. THE PROPOSED FINAL FLOOR ELEVATION IS 30'MSL. THE FIGURES BELOW SHOW THE TYPICAL SECTIONS. WHERE ENCOUNTERED, SAND WILL BE EXCAVATED AT 20% SLOPES.



TYPICAL WALL SECTION

TYPICAL RAMP SECTION

**OPERATIONAL SEQUENCE**

1. PREPARE CONSTRUCTION ENTRANCE PER DETAIL.
2. CUT AND CLEAR TREES. ALL CONSTRUCTION VEHICLES MUST EXIT THE SITE VIA THE CONSTRUCTION ENTRANCE TO AVOID TRACKING SEDIMENT OFF-SITE.
3. CONSTRUCT TEMPORARY EROSION CONTROL DEVICES AND BERM AS NECESSARY. SILT FENCE CONSTRUCTION SHALL INCLUDE ONLY THOSE LENGTHS REQUIRED FOR CURRENT ACTIVE AREAS AND THOSE AREAS TO BE STRIPPED. ALL EROSION CONTROL MEASURES SHALL CONFORM TO THE "STORM WATER MANAGEMENT AND DESIGN MANUAL AND DESIGN SPECIFICATIONS HANDBOOK FOR URBAN AND DEVELOPING AREAS IN NH" PREPARED FOR THE NH DEPARTMENT OF ENVIRONMENTAL SERVICES, 1992.
4. GRUB AND DISPOSE OF DEBRIS. STUMP AND BRUSH MANAGEMENT AND DISPOSAL SHALL BE IN ACCORDANCE WITH NHDES TECHNICAL BULLETIN SM-7-1999.
5. STOCKPILE AND STABILIZE TOPSOIL AND INSTALL ASSOCIATED EROSION CONTROL DEVICES AS NECESSARY. MULCH STOCKPILES IF THEY ARE TO REMAIN LONGER THAN 14 DAYS.
6. CONSTRUCT ACCESS AND HALL ROAD(S), THEN STABILIZE ALL EXPOSED SLOPES.
7. BEGIN TEMPORARY AND PERMANENT SEEDING AND MULCHING TO STABILIZE DISTURBED AREAS OUTSIDE OF EXCAVATION AREA(S).
8. DURING OPERATIONS, PERIODICALLY MONITOR THE DRAINAGE PATHS ON SITE AND MODIFY POTENTIAL TROUBLE SPOTS. PREVENT STANDING WATER IN TRAVEL AREAS, IF POSSIBLE.
9. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED AND REPAIRED AT THE END OF EACH WORKING DAY AND IN ADDITION, AFTER EACH STORM EVENT.
10. SEDIMENT CONTROL DEVICES SHALL BE PERIODICALLY CLEANED TO REMOVE SEDIMENT DEPOSITS, MAINTAINED IN WORKABLE CONDITION, AND THE DEVICES REPLACED AS NECESSARY.
11. APPLY ADDITIONAL MULCH AND SEED TO AREAS MOST SUSCEPTIBLE TO EROSION AND REPAIR ANY ERODED AREAS. THIS INCLUDES LARGE AREAS SUSCEPTIBLE TO WINDS.
12. ALL SILT FENCES SHALL HAVE SEDIMENT REMOVED WHEN THE SEDIMENT BUILDUP REACHES HALF THE HEIGHT OF THE BARRIER. SEDIMENT REMOVED SHALL BE STORED ON-SITE FOR LATER INCORPORATION INTO SITE SLOPES. A SILT FENCE SHALL BE CONSTRUCTED DOWNSLOPE AND ADJACENT TO THE STORAGE PILES(S) AND THE PILE THIN LOADED AND SEEDED.
13. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL REGULATIONS.
14. SITE RECLAMATION SHALL COMPLY WITH THE RECLAMATION STANDARDS CONTAINED IN STATE OF NH RSA, 155-E:6 AND 155-E:5-G. RECLAMATION WILL TAKE PLACE AS SOON AS THE SNOW MELTS IN THE SPRING UNTIL MAY 15. IF NECESSARY, THE DESIGN SEEDING RATES AND MULCHING RATES SHALL BE IN ACCORDANCE WITH NHDES TECHNICAL NOTE PA-RH-21, "VEGETATING NEW HAMPSHIRE SAND AND GRAVEL PITS".
15. MINIMUM SITE RECLAMATION SHALL INCLUDE LOAM AND SEEDING AS SPECIFIED ON THIS SHEET. SITE STABILITY IS OBTAINED AT 85% TURF ESTABLISHMENT.
16. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED AFTER FINAL SITE STABILIZATION. TRAPPED SEDIMENT AND OTHER DISTURBED SOIL AREAS RESULTING FROM THE REMOVAL OF TEMPORARY MEASURES SHALL BE STABILIZED.
17. DUST CONTROL WILL UTILIZE WATER TO KEEP AIRBORN PARTICULATES TO A MINIMUM OR MULCH IN NON-TRAVEL AND WORKING AREAS.

**LOAM AND SEEDING SPECIFICATIONS**

LOAM: ALL AREAS TO BE SEEDD SHALL BE RELOADED WITH A MINIMUM OF 4" OF LOAM SUFFICIENT TO GROW PROPER VEGETATION. STONES LARGER THAN 4" AND DEBRIS THAT WILL INTERFERE WITH SEEDING AND FUTURE MAINTENANCE SHALL BE REMOVED. SEEDING SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS TO REPAIR SEEDS. THE SEEDS SHOULD BE LEFT IN A REASONABLY FIRM AND SMOOTH CONDITION. THE LAST TILLAGE OPERATION SHOULD BE PERFORMED ACROSS THE SLOPE WHENEVER POSSIBLE.

- SEEDING:
- TALL FESCUE ..... 20.0 LBS PER ACRE
  - REDTOP ..... 2.0 LBS PER ACRE
  - BROODFOOT TREFOIL \* ..... 8.0 LBS PER ACRE
- \* THESE LEGUMES MUST BE INOCULATED AT TIME OF SEEDING. F SEEDING WITH HYDRIDESER. USE AT THE RECOMMENDED RATE OF INOCULANT.

ALL AREAS SHALL BE MULCHED AT THE RATE OF 500-700 LBS PER ACRE USING CLEAN, WEED FREE MULCH.

IF ANY AREA FAILS TO PROVIDE VEGETATIVE COVER, REPEAT THE SEEDING PROCESS. 85% VEGETATIVE COVER IS REQUIRED FOR SITE STABILITY.

SEEDING SHOULD BE PERFORMED BETWEEN SNOWMELT AND MAY 15 OR BETWEEN AUGUST 15 AND SEPTEMBER 1.

LIME AND FERTILIZERS: IN LIEU OF A SOIL TEST, LIME AT THE RATE OF 2 TONS PER ACRE. FERTILIZE WITH 500 LBS. PER ACRE OF 10-20-20 FERTILIZER.



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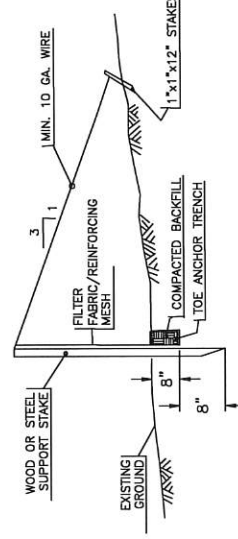
REVISION	BY	DATE	DESCRIPTION



GRAPHIC SCALE  
NOTES ARE  
NOT TO SCALE

DETAIL SHEET  
FOR SITE PLAN APPLICATION  
(TAX MAP 222 LOTS 12 & 13 AND  
TAX MAP 236 LOTS 2, 3 & 4)  
BROX INDUSTRIES, INC.  
TOLEND ROAD  
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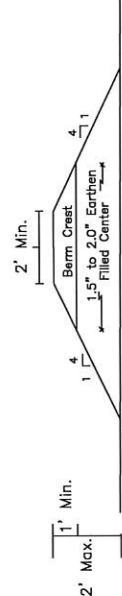
SHEET  
7 OF 7  
FILE  
BARR-2020.DWG  
DATE  
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**CONSTRUCTION DETAILS**

1. THE GEOTEXTILE FABRIC SHALL MEET THE DESIGN CRITERIA FOR SILT FENCES.
2. THE FABRIC SHALL BE EMBEDDED A MINIMUM OF 8 INCHES INTO THE GROUND AND THE SOIL COMPACTED OVER THE EMBEDDED FABRIC.
3. WOVEN WIRE FENCE SHALL BE FASTENED SECURELY TO THE FENCE POSTS WITH WIRE TIES OR STAPLES.
4. FILTER CLOTH SHALL BE FASTENED SECURELY TO THE WOVEN WIRE FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP, MID-SECTION, AND BOTTOM.
5. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6 INCHES.
6. FENCE POSTS SHALL BE A MINIMUM OF 36 INCHES LONG AND DRIVEN A MINIMUM OF 18 INCHES INTO THE GROUND. WOOD POSTS SHALL BE OF SOUND QUALITY HARDWOOD AND SHALL HAVE A MINIMUM CROSS SECTIONAL AREA OF 1 SQUARE INCH.
7. SPACING OF SUPPORT STAKES: 8 FEET.
8. EXTEND THE ENDS OF THE FENCE UPSLOPE SO THAT THE BOTTOM OF THE FENCE SHALL END AT LEAST AT THE TOP OF FENCE ELEVATION.
9. MAINTENANCE SHALL BE PERFORMED AS NEEDED TO PREVENT BULGES IN THE SILT FENCE DUE TO DEPOSITION OF SEDIMENT.
10. 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.

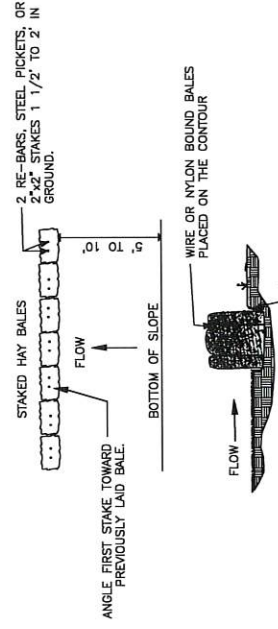
**FILTER FABRIC FENCE**



**CONSTRUCTION DETAILS**

1. THE BERM WILL BE CONSTRUCTED DURING THE INITIAL PHASE OF TREE REMOVAL AND GRUBBING TO PREVENT ANY POTENTIAL STORMWATER RUN-OFF FROM EXITING THE SITE.
2. THE BERM SHOULD BE CHECKED PERIODICALLY AND AFTER EVERY MAJOR STORM TO INSURE THAT IT IS WORKING PROPERLY AND IS NOT DAMAGED. DAMAGE TO THE STRUCTURE SHOULD BE REPAIRED IMMEDIATELY.
3. BERMS SHALL BE SEEDD AND MULCHED.

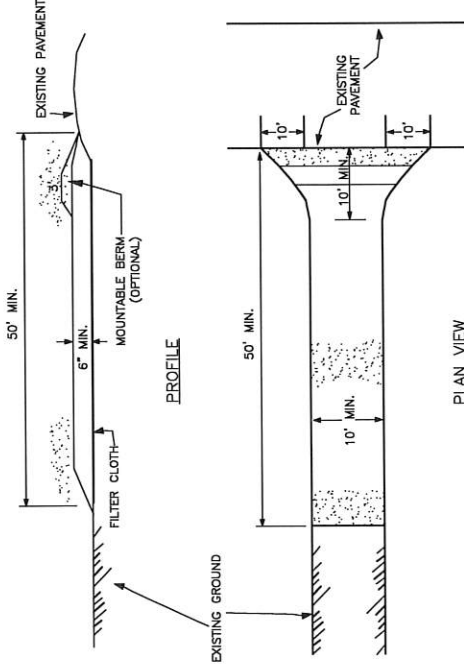
**EARTHEN BERM DETAIL**



**CONSTRUCTION DETAILS**

1. BALES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
2. EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF FOUR INCHES.
3. BALES SHALL BE SECURELY ANCHORED IN PLACE BY STAKES OR RE-BARS DRIVEN THROUGH THE BALES. THE FIRST STAKE IN EACH BALE SHALL BE ANGLED TOWARD PREVIOUSLY LAD BALE TO FORCE BALES TOGETHER.
4. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
5. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

**HAY BALE BARRIER**



**CONSTRUCTION DETAILS**

1. STONE FOR A STABILIZED CONSTRUCTION ENTRANCE SHALL BE 1 TO 2 INCH STONE, RECLAIMED STONE, OR RECYCLED CONCRETE EQUIVALENT.
2. THE LENGTH OF THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 50 FEET, EXCEPT FOR A SINGLE RESIDENTIAL LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY.
3. THE THICKNESS OF THE STONE FOR THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 6 INCHES.
4. THE WIDTH OF THE ENTRANCE SHALL NOT BE LESS THAN THE FULL WIDTH OF THE ENTRANCE WHERE INGRESS OR EGRESS OCCURS OR 10 FEET, WHICHEVER 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 TRUCKS OR EQUIPMENT FROM ENTERING THE RESIDENTIAL LOT. THE ENTRANCE SHALL BE MAINTAINED WITH CONDITIONAL 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**