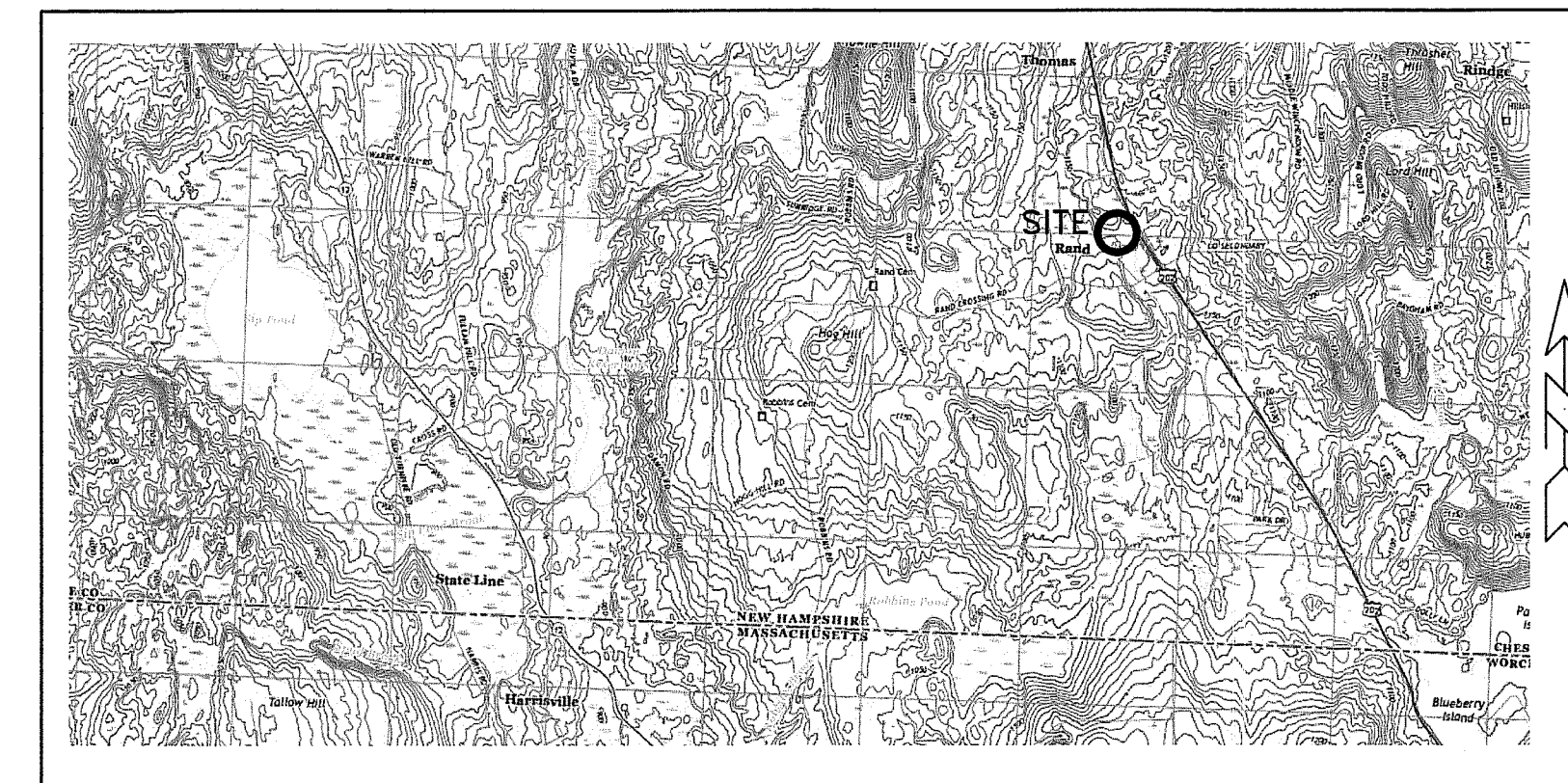


LOCUS TAX-MAP PLAN 1"=4000'



USGS MAP 1"=4000'

# DISCOUNT TIRE & SERVICE SITE PLAN

## ROUTE 202 SOUTH; MAP-2 LOT-44

### RINDGE, NEW HAMPSHIRE 03461

APPLICANT: TYLER DERUOSI; P.O. BOX 124; RINDGE, NH 03461  
 LAND OWNERS: TYLER DERUOSI; P.O. BOX 124; RINDGE, NH 03461  
 ENGINEER/SURVEYOR: GRAZ ENGINEERING LLC; 323 WEST LAKE ROAD; FITZWILLIAM, NH 03447  
 WETLAND SCIENTIST: SHARON MONAHAN; SITE SUCCOR DESIGN, LLC; 3 CENTRAL ST., PETERBOROUGH, NH

#### DRAWING INDEX

- 1) COVER/TITLE SHEET
- 2) EXISTING CONDITIONS & PROPERTY PLAN
- 3) PROPOSED GENERAL SITE PLAN
- 4) ACCESS DRIVE & MINIMUM IMPACT WETLANDS PERMIT PLAN
- 5) SEPTIC SYSTEM DESIGN PLAN
- 6) STORMWATER NOTES & DETAILS SHEET
- 7) BUILDING DETAILS

#### GENERAL PROPERTY DATA

ASSESSORS NO.: MAP-2 LOT-44

LOT ADDRESS: ROUTE 202 SOUTH; RINDGE, NH  
 OWNERS OF RECORD: TYLER DERUOSI  
 P.O. BOX 124; RINDGE, NH 03461  
 LOCUS DEED: BOOK 3051 PAGE 484

PLAN REFERENCES: UNRECORDED RICHARD DREW PLAN  
 DATED SEPTEMBER 20, 2018

PROPOSED NEW BLDG USE: OFFICES - 3,000 S.F.  
 WAREHOUSE/REPAIR SHOP - 15,000 S.F.

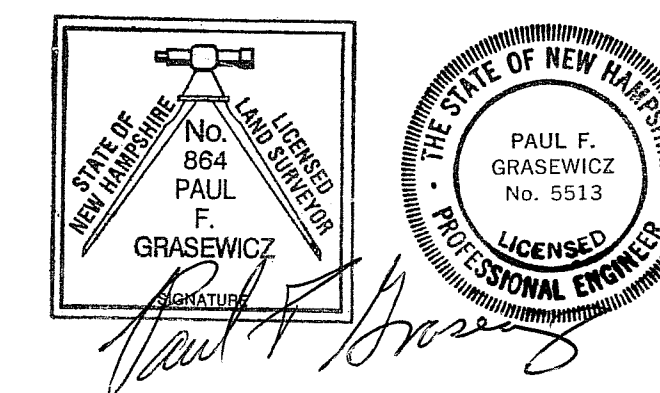
ZONING DISTRICT: BUSINESS LIGHT INDUSTRY

#### DIMENSIONAL REQUIREMENTS:

AREA: 2 ACRES  
 FRONTAGE: 250 FEET

SETBACKS:  
 FRONT YARD: 25 FEET  
 SIDE YARD: 10 FEET  
 REAR YARD: 50 FEET

OTHER: 50' WETLAND SETBACK FOR IMPERVIOUS AREAS, ETC.  
 (SEE RINDGE WETLAND ORDINANCE)



JOB/FILE: 20126

REV. 10/18/21: REV WELL & ABUTTER PER PLANNING DIRECTOR  
 REV. 10/11/21: REVISED SITE PLAN  
 REV. 1/19/21: PER DES-WETLANDS & PLANNING BOARD  
 REV. 1/4/21: 4:1 SLOPE PER NHDOT & ADD SHEET-7  
 REV. 12/28/20: PER PLANNING REVIEW COMMENTS

APPROVED BY THE PLANNING BOARD ON \_\_\_\_\_ AND BY  
 CERTIFIED BY THE CHAIRPERSON \_\_\_\_\_ AND BY  
 THE DIRECTOR OF PLANNING \_\_\_\_\_

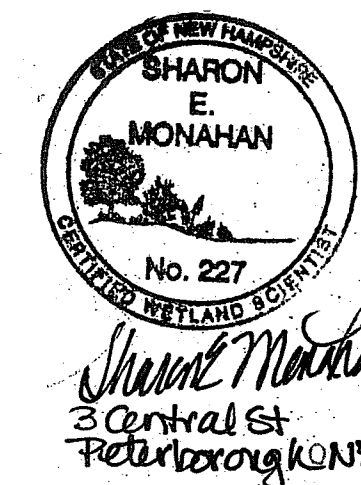
N/F PAULA M. AUCOIN  
 MAP-6 LOT-99-4  
 USE: COMMERCIAL  
 (OFFICE/SELF STORAGE)

N/F HANNAFORD BROS.  
 MAP-6 LOT-99  
 USE: COMMERCIAL  
 (SUPERMARKET)

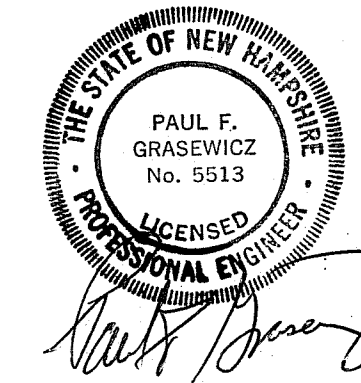
KUCHNR REALTY, LLC  
 MAP-2 LOT-44-1  
 USE: WETLANDS

N/F DERUOSI  
 MAP-2 LOT-44  
 24.911 ACRES  
 USE: UNDEVELOPED

N/F STATE OF NEW HAMPSHIRE  
 RAIL TRAIL BUREAU  
 5 RODS WIDE AT THIS LOCATION  
 USE: BIKE PATH



KUCHNR REALTY, LLC  
 MAP-2 LOT-48  
 USE: UNDEVELOPED



N/F SELECT CONCRETE PUMPHOUSE, INC  
 MAP-2 LOT-41-2  
 USE: UNDEVELOPED

APPROVED BY THE PLANNING BOARD ON \_\_\_\_\_ AND BY  
 CERTIFIED BY THE CHAIRPERSON \_\_\_\_\_ AND BY  
 THE DIRECTOR OF PLANNING \_\_\_\_\_

BUSINESS-LIGHT INDUSTRY  
 RESIDENTIAL-AGRICULTURAL DISTRICT

BUSINESS-LIGHT INDUSTRY  
 RESIDENTIAL-AGRICULTURAL DISTRICT

BUSINESS-LIGHT INDUSTRY  
 RESIDENTIAL-AGRICULTURAL DISTRICT

N/F MACDONALD  
 MAP-2 LOT-41-3-1  
 USE: RESIDENTIAL

N/F ELLIS  
 MAP-2 LOT-41-3-2  
 USE: RESIDENTIAL

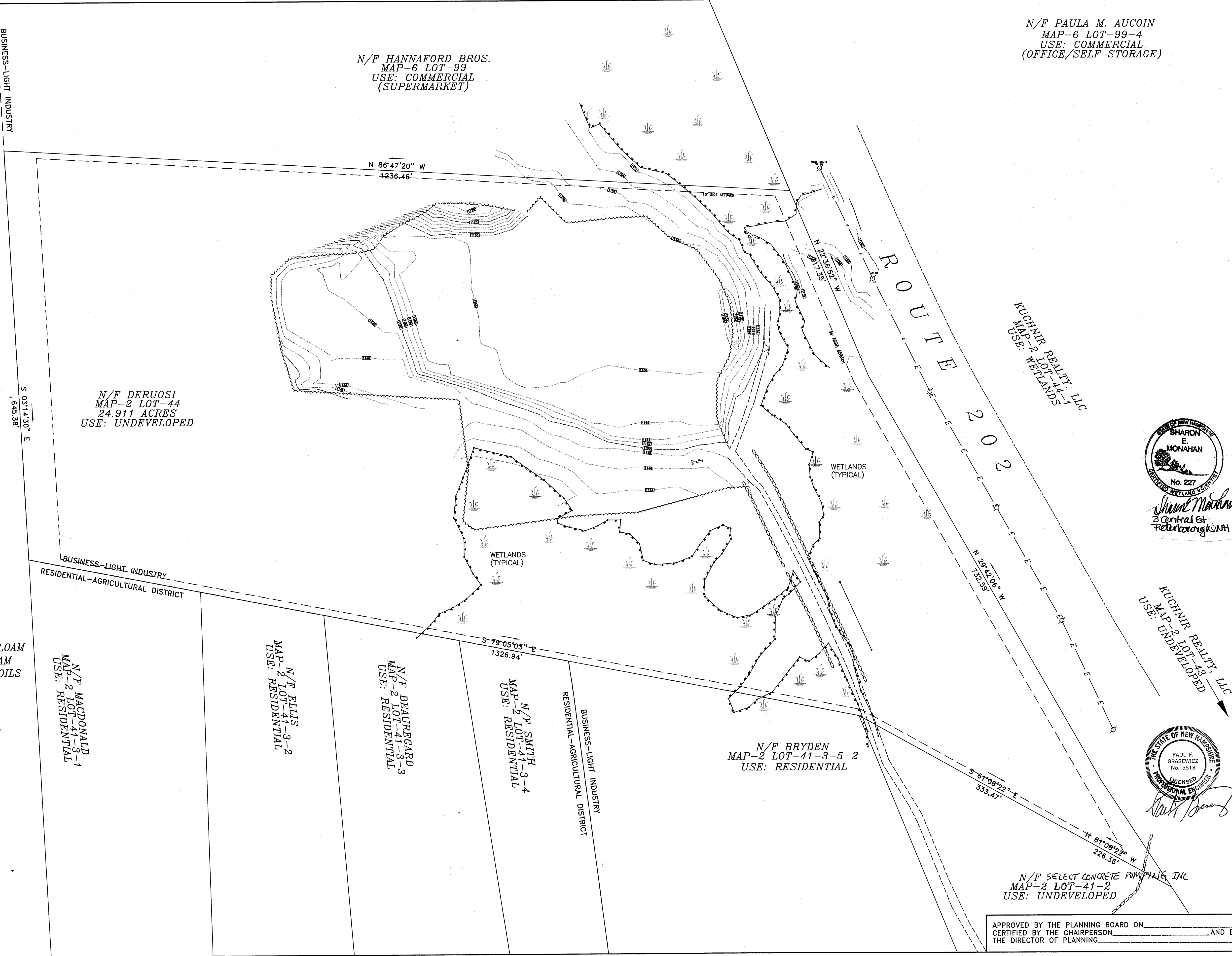
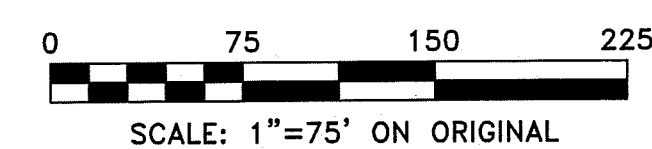
N/F BEAUREGARD  
 MAP-2 LOT-41-3-3  
 USE: RESIDENTIAL

N/F SMITH  
 MAP-2 LOT-41-3-4  
 USE: RESIDENTIAL

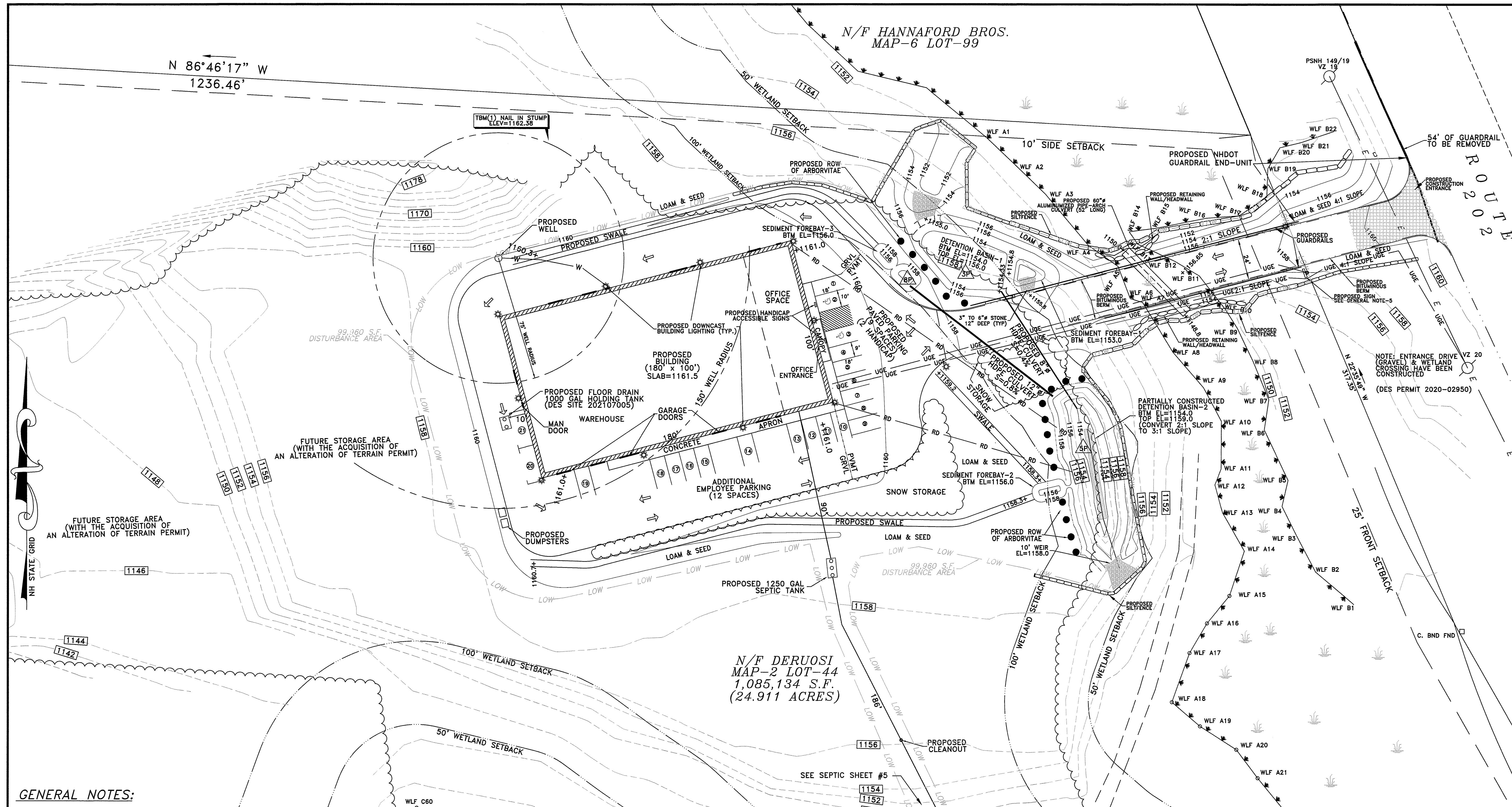
N/F BRYDEN  
 MAP-2 LOT-41-3-5-2  
 USE: RESIDENTIAL

**SOIL MAP LEGEND:**

- 14B: SHEEPSHOT SANDY LOAM
- 77C: MARLOW FINE SANDY LOAM
- 143C: MONADNOCK FINE SANDY LOAM
- 169B: SUNAPEE FINE SANDY LOAM
- 347B: LYME AND MOOSILAUKE SOILS
- 395: CHOCORUA MUCKY PEAT







N 86°46'17" W  
1236.46'

N/F HANNAFORD BROS.  
MAP-6 LOT-99

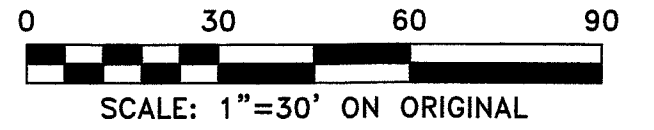
N/F DERUOSI  
MAP-2 LOT-44  
1,085,134 S.F.  
(24.911 ACRES)

|                |   |                         |           |
|----------------|---|-------------------------|-----------|
| SHEET          |   | 3 OF 7                  |           |
| PREPARED BY:   |   | GRAZ Engineering, LLC   |           |
| PREPARED FOR:  |   | DISCOUNT TIRE & SERVICE |           |
| SCALE AS NOTED |   | DATE 11/19/20           |           |
| NO.            | REVISIONS                                 | DES                     | TWF       |
| 5              | REV. WELL & ABUTTER PER PLANNING DIRECTOR | PGF                     | 10/18/21  |
| 4              | REVISED SITE PLAN                         | TWF                     | 10/17/21  |
| 3              | REV. PER DES-WETLANDS & PLANNING BOARD    | CHK                     | 1/19/21   |
| 2              | 4:1 SLOPE PER NHDOT & ADDED SHEET-7       | APPD                    | 1/14/2021 |

**GENERAL NOTES:**

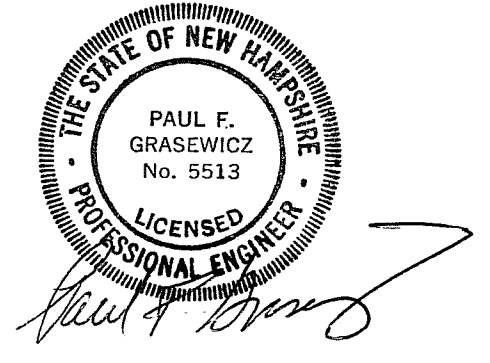
1. THE PURPOSE OF THIS PLAN IS TO SHOW THE PROPOSED BUILDING AND ASSOCIATED DRAINAGE, GRADING, UTILITIES, ETC INVOLVED IN THE COMPLETION OF THE PROJECT. SITE PLAN APPROVAL HAD BEEN GRANTED FOR A SMALLER STRUCTURE AND SITE DISTURBANCE OF LESS THAN 100,000 S.F., WHICH HAS BEEN EXCEEDED DURING CONSTRUCTION. THIS SITE PLAN IS FOR THE WORK BEING DONE INSIDE OF THE 100,000 S.F. LIMIT-OF-WORK AREA SHOWN HEREON. AN ALTERATION OF TERRAIN PERMIT MUST BE OBTAINED PRIOR TO ANY WORK OUTSIDE OF THIS AREA.
2. CONTOURS ARE BASED OFF OF GPS/TOTAL STATION SURVEY ON-SITE AND LIDAR 2-FT CONTOURS FROM GIS OFFSITE. ELEVATION DATUM BASED ON NGS OPUS POST-PROCESSED GPS/GNSS DATA.
3. FIELD SURVEY PERFORMED BY GRAZ ENGINEERING TOTAL STATION & R-T-K GPS/GNSS.
4. NO ADDITIONAL ALTERATION (OR CUTTING) OUTSIDE OF THE LIMIT-OF-WORK AREA SHALL BE PERFORMED WITHOUT AN ALTERATION OF TERRAIN PERMIT.
5. PROPOSED SIGN TO COMPLY WITH ALL APPLICABLE RULES/REGULATIONS IN THE TOWN OF RINDGE SIGN ORDINANCE.
6. NO SITE LIGHTS ARE PROPOSED OTHER THAN THE DOWNCAST WALL MOUNT AREA LIGHTS AROUND THE BUILDING AT THE LOCATIONS SHOWN & AT THE ENTRANCE SIGN.
7. FOR FURTHER DETAIL ABOUT DRAINAGE ON-SITE, SEE STORMWATER REPORT.
8. A DRIVEWAY PERMIT HAS BEEN OBTAINED FROM NHDOT FOR AN ACCESS DRIVE OFF OF ROUTE 202.
9. THERE ARE 21 PROPOSED PARKING SPACES, INCLUDING 2 HANDICAP & VAN ACCESSIBLE PROPOSED TO ACCOMMODATE POTENTIAL CUSTOMERS AND A MAXIMUM OF 20 EMPLOYEES.

10. STATE SEPTIC APPROVAL IS REQUIRED FOR THE PROPOSED SEPTIC SYSTEM (SEE SHEET 5)
11. PAVEMENT PAINT & MARKINGS SHALL BE IN ACCORDANCE WITH ALL NH SPECIFICATIONS.
12. HANDICAP MARKINGS, SIGNS & ACCESS SHALL COMPLY WITH ADA STANDARDS.
13. ALL ELECTRICAL WORK SHALL CONFORM TO CODE & RINDGE REGULATIONS.
14. THE CONTRACTOR SHALL NOTIFY DIG-SAFE 72 HOURS IN ADVANCE OF SITE EXCAVATION.
15. THE SITE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ANY CONDITIONS THAT MAY BE ISSUED BY THE RINDGE PLANNING BOARD, CONSERVATION COMMISSION, ZBA & NHDOT.
16. THE OWNER(S) IS RESPONSIBLE FOR INSPECTION AND MAINTENANCE OF THE STORMWATER MANAGEMENT SYSTEM. REFER TO THE SITE STORMWATER INSPECTION AND MAINTENANCE MANUAL.
17. APPROPRIATE MEASURES SHALL BE TAKEN TO ENSURE THAT THERE IS NO EROSION OR OFF-SITE SEDIMENT TRANSPORT DURING (AND AFTER) CONSTRUCTION.
18. BECAUSE THE INITIAL 100,000 S.F. LIMIT-OF-WORK WAS EXCEEDED, AN ALTERATION OF TERRAIN PERMIT MUST BE OBTAINED PRIOR TO ANY WORK BEYOND THE 100,000 S.F. AREA.
19. A FIRE WATER SUPPLY IS LOCATED AT 234 MIDDLE WINCHENDON ROAD, A 1.7 MILE & 3 MINUTE DRIVE AWAY. THERE IS A FIRE WATER SUPPLY PROPOSED ON DALE FARM ROAD TO BE CONSTRUCTED IN THE NEAR FUTURE FOR A RESIDENTIAL DEVELOPMENT A HALF MILE AWAY FROM THIS SITE.
20. THE PROPOSED STORAGE AREA IS TO BE A VEHICLE STORAGE/STAGING AREA AND A LOCATION FOR CUSTOMERS TO PICK UP OR DROP OFF VEHICLES TO BE REPAIRED.



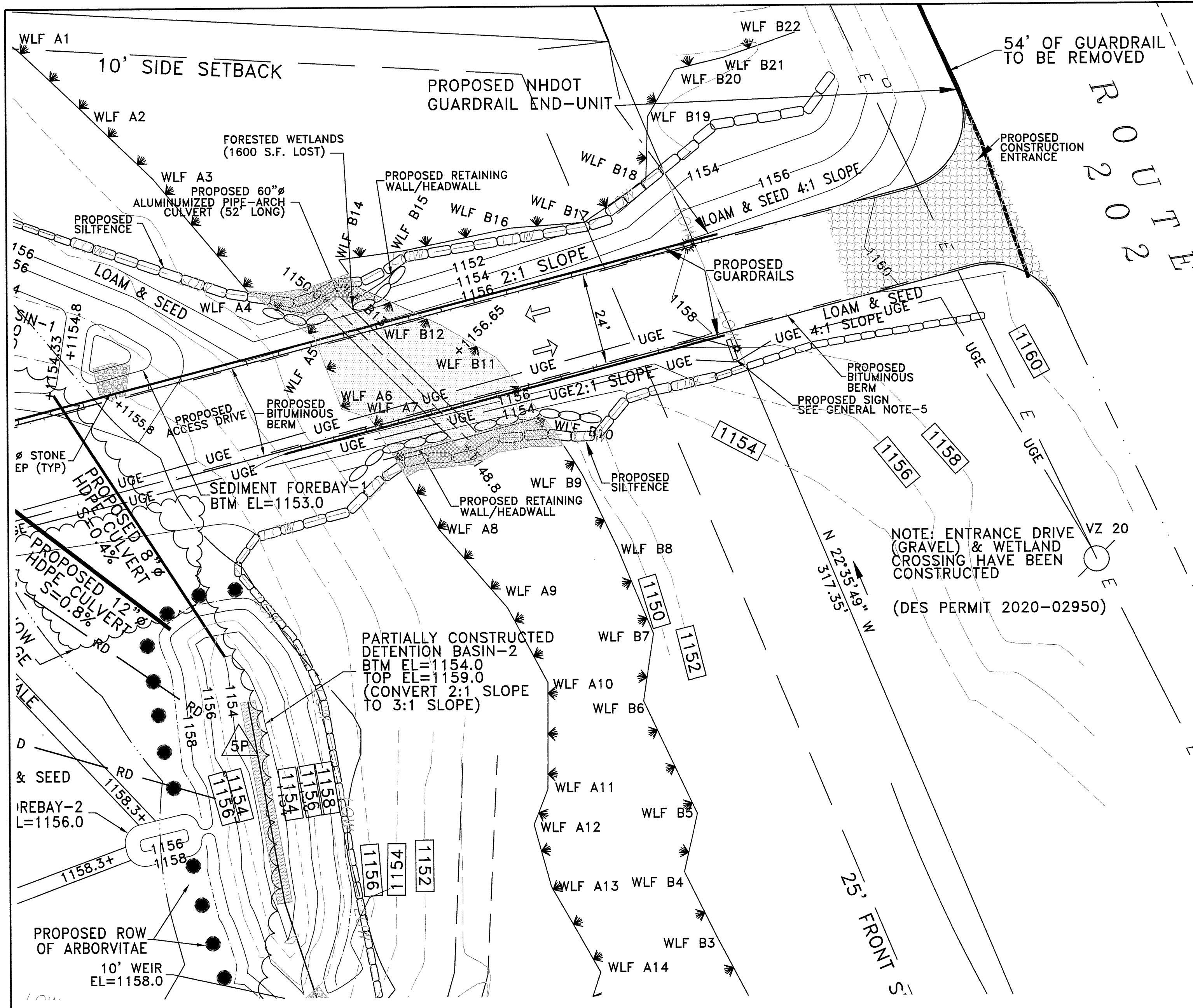
- N/F
- UP
- IPF
- 1101
- 1105
- LOW
- W
- UGE
- E
- RD
- EXISTING TREELINE
- NOW OR FORMER (OWNER) UTILITY POLE
- PIN/PIPE FOUND
- EXISTING GRADE CONTOUR
- PROPOSED GRADE CONTOUR
- LIMIT OF WORK
- WATER LINE
- UNDERGROUND ELECTRIC
- ABOVE GROUND ELECTRIC
- ROOF DRAIN
- WETLANDS

**LEGEND**

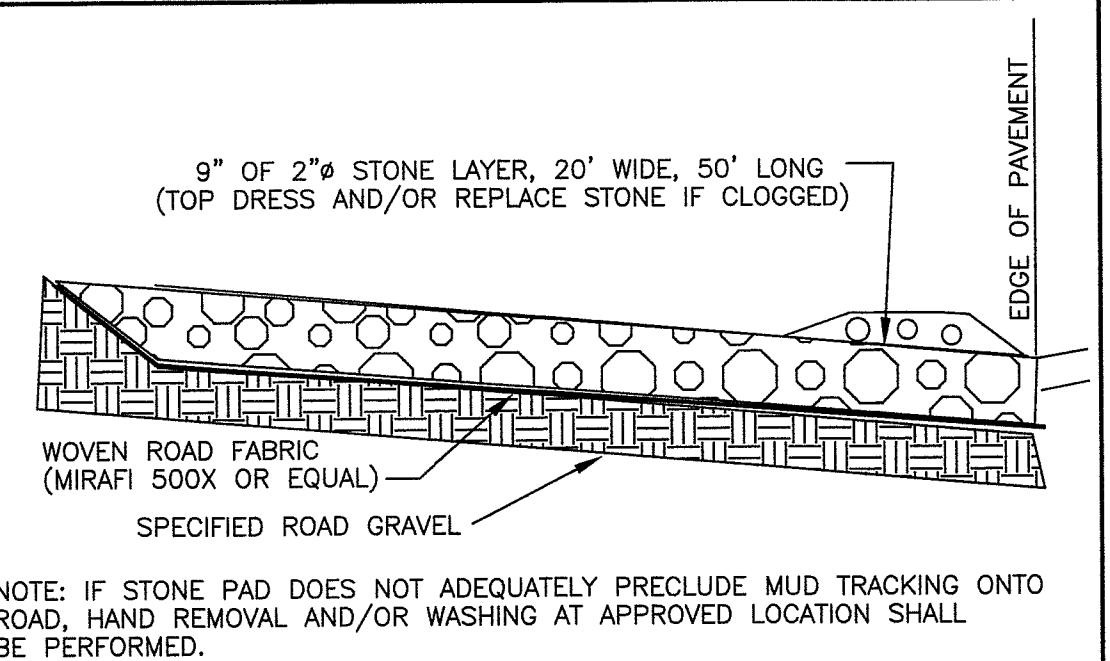


APPROVED BY THE PLANNING BOARD ON \_\_\_\_\_ AND BY  
CERTIFIED BY THE CHAIRPERSON \_\_\_\_\_  
THE DIRECTOR OF PLANNING \_\_\_\_\_

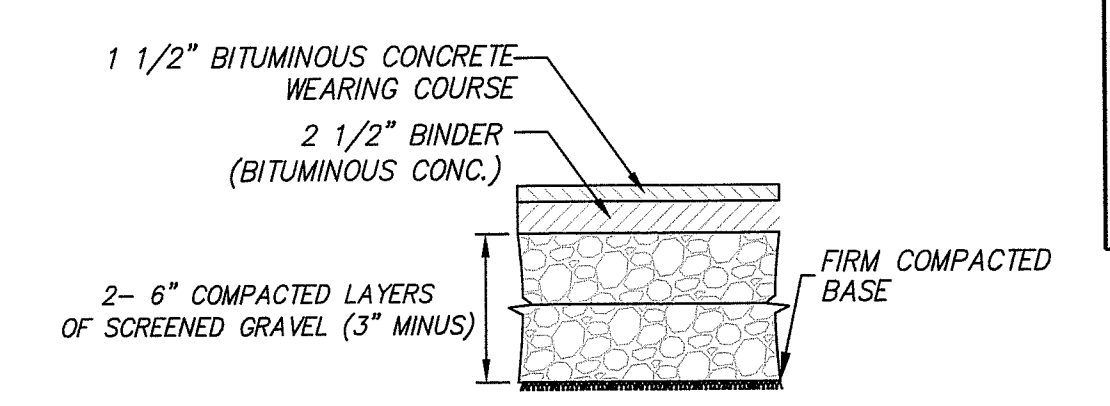




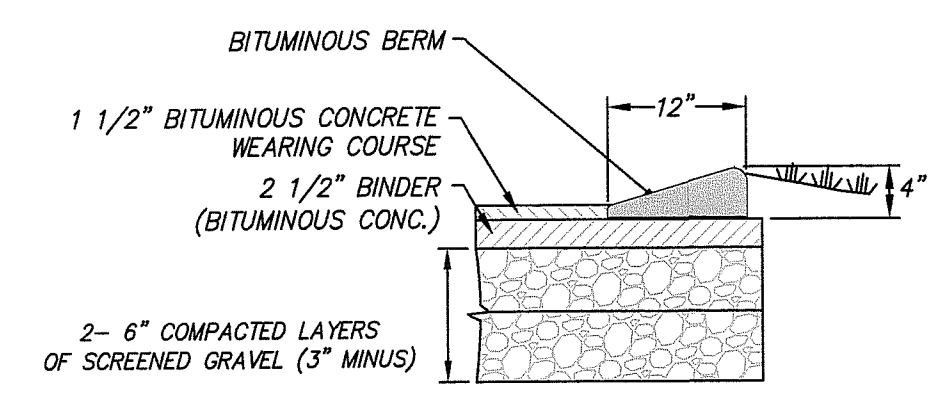
PROPOSED WETLAND CROSSING PLAN



CONSTRUCTION ENTRANCE DETAIL NTS



ON SITE VEHICULAR BITUMINOUS PAVEMENT DETAIL



BITUMINOUS BERM

- EXISTING TREELINE
- NOW OR FORMER (OWNER)
- UTILITY POLE
- PIN/PIPE FOUND
- EXISTING GRADE CONTOUR
- WATER LINE
- UNDERGROUND ELECTRIC
- ABOVE GROUND ELECTRIC
- TEMPORARY IMPACTS
- PERMANENT IMPACTS

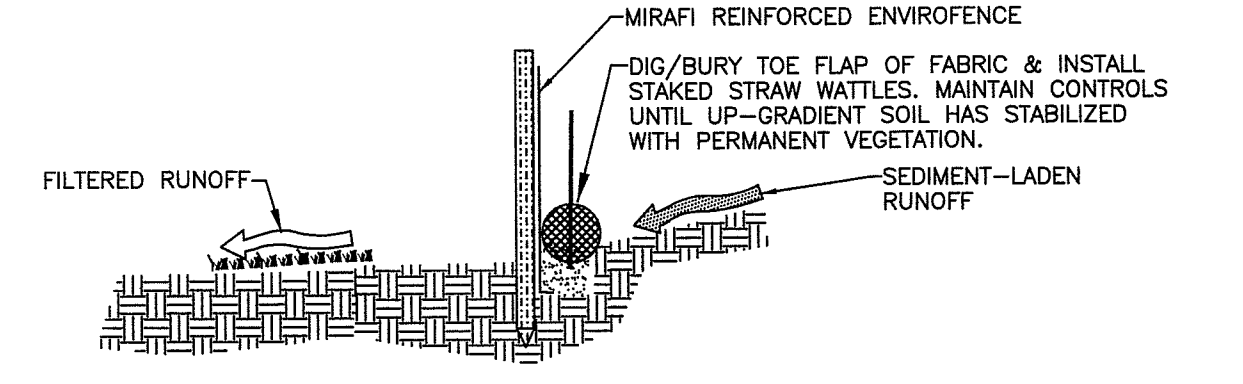
LEGEND



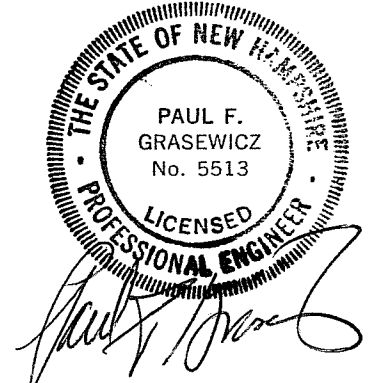
VICINITY LOCUS NTS

NOTES:

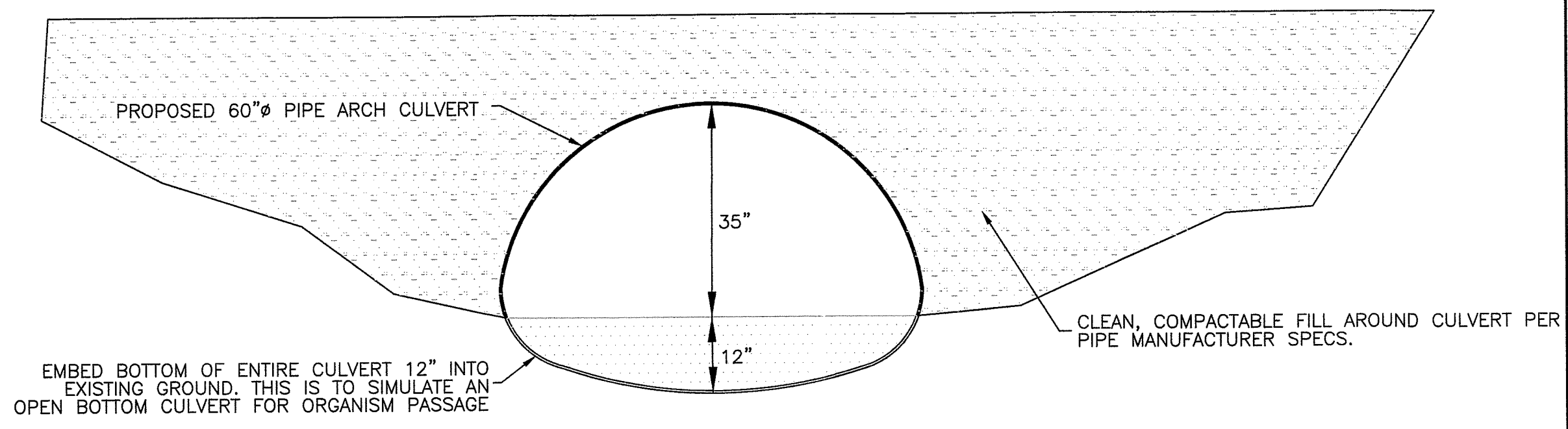
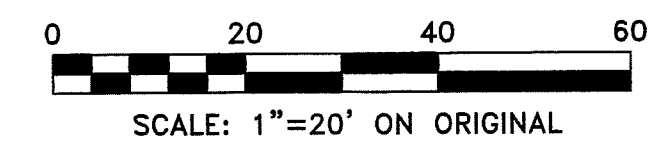
1. THE PURPOSE OF THIS PLAN IS TO DEPICT THE DESIGN OF A WETLAND CROSSING DRIVEWAY TO ACCESS A COMMERCIAL PROPERTY OFF OF ROUTE 202 JUST SOUTH OF HANNAFORDS IN RINDGE, NH. THIS PROJECT QUALIFIES AS A MINIMUM IMPACT PROJECT DUE TO THE LIMITED ALTERATION OF ONLY 1,600 S.F. OF FORESTED WETLANDS.
2. CONTOURS ARE BASED OFF OF GPS/TOTAL STATION SURVEY ON-SITE AND LIDAR 2-FT CONTOURS FROM GIS OFFSITE. ELEVATION DATUM BASED ON NGS OPUS POST-PROCESSED GPS/GNSS DATA.
3. FIELD SURVEY PERFORMED BY GRAZ ENGINEERING TOTAL STATION & R-T-K GPS/GNSS.
4. NO ADDITIONAL ALTERATION (OR CUTTING) MAY BE PERFORMED ON-SITE WITHOUT FURTHER APPLICATIONS OR PERMITS.
5. PESTICIDE USE, IF NECESSARY, SHALL BE APPLIED ONLY BY A LICENSED APPLICATOR.
6. DISTURBED WETLANDS HAVE A WATERSHED OF 0.04 SQUARE MILES AND HAS AN APPROXIMATE 100-YEAR PEAK FLOOD FLOW RATE OF 17.1 CFS.
7. PROPOSED CULVERT TO HAVE A MAXIMUM DISCHARGE CAPACITY OF 108 CFS.
8. WETLANDS DELINEATED BY SHARON MONAHAN - WETLAND SCIENTIST.
9. SEE NHDOT ACCESS/DRIVEWAY PERMIT #04-387-0046.
10. A SPECIAL EXCEPTION WAS GRANTED BY THE RINDGE ZBA ON 11/24/20 FOR THE DREDGING/FILLING OF WETLANDS PER THE RINDGE WETLAND ORDINANCE.



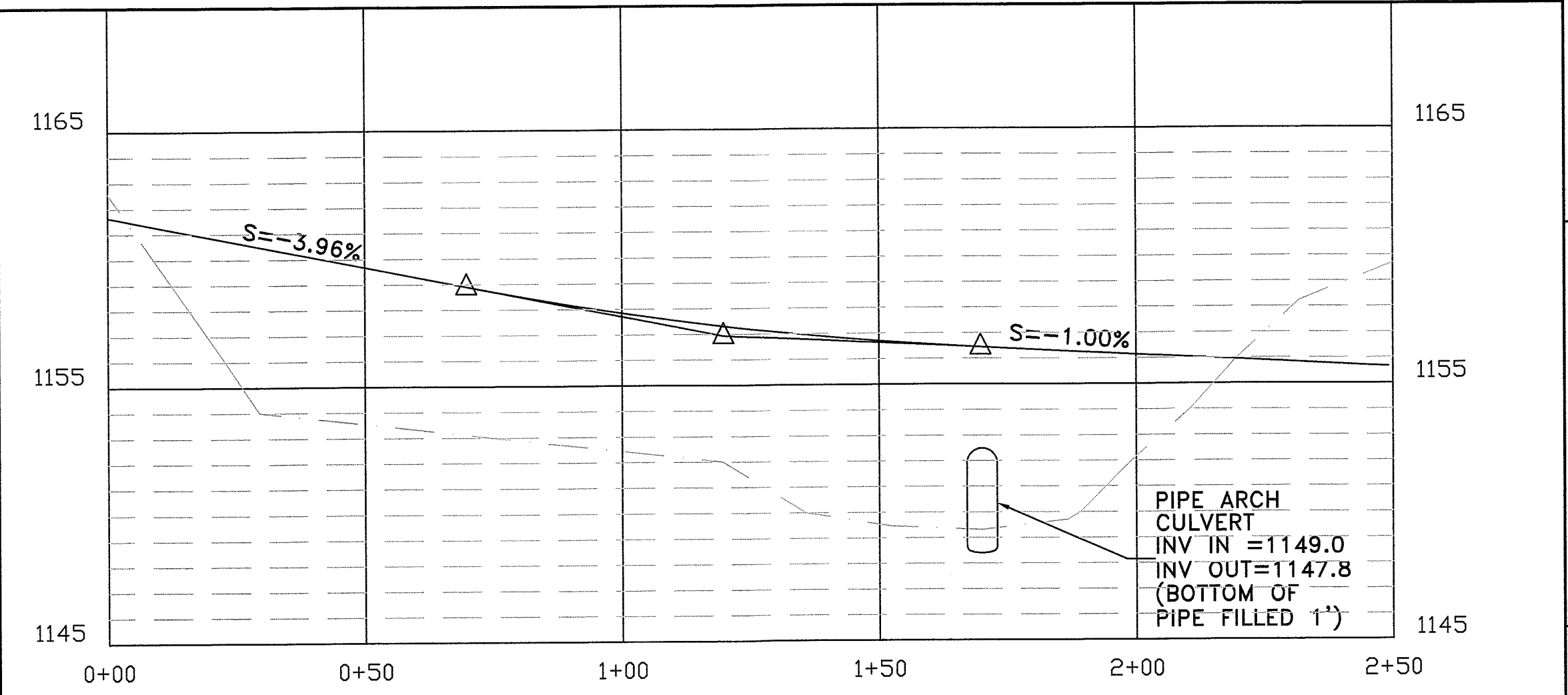
SILT FENCE DETAIL NTS



APPROVED BY THE PLANNING BOARD ON \_\_\_\_\_ AND BY THE DIRECTOR OF PLANNING \_\_\_\_\_



PIPE ARCH DETAIL NTS



CROSSING PROFILE: 1/2"=2.5' VERTICAL, 1"=25' HORIZONTAL

JOB NO. 20126

REV. 10/18/21: REVISED WELL & ABUTTER PER PLANNING DIRECTOR  
 REV. 10/11/21: REVISED SITE PLAN  
 REV. 1/19/21: PER DES-WETLANDS & PLANNING BOARD  
 REVISED TO 4:1 SIDESLOPE IN R-O-W PER NHDOT- 1-4-20 BY PFG  
 REVISED PER PLANNING DIRECTOR COMMENTS - 12-28-20 BY TWF

ACCESS DRIVE & MINIMUM IMPACT WETLANDS PERMIT PLAN

MAP-2 LOT-44  
 ROUTE 202 SOUTH; RINDGE, NH 03461

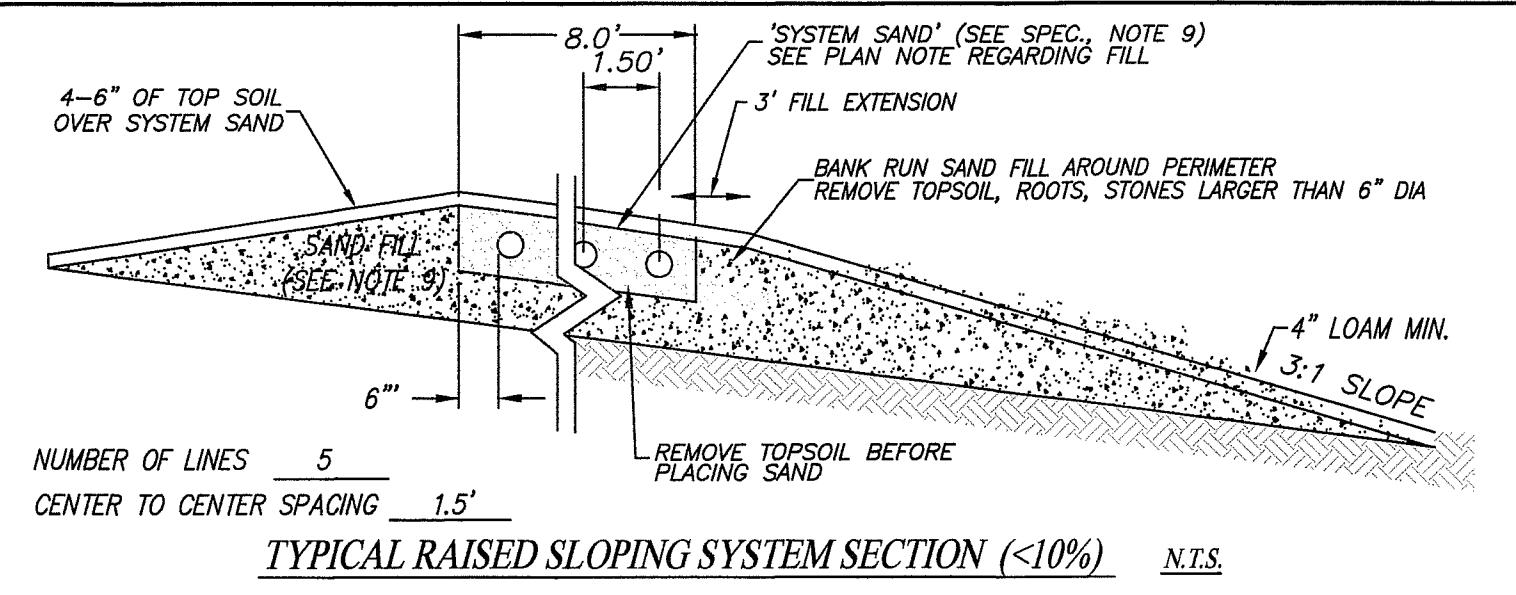
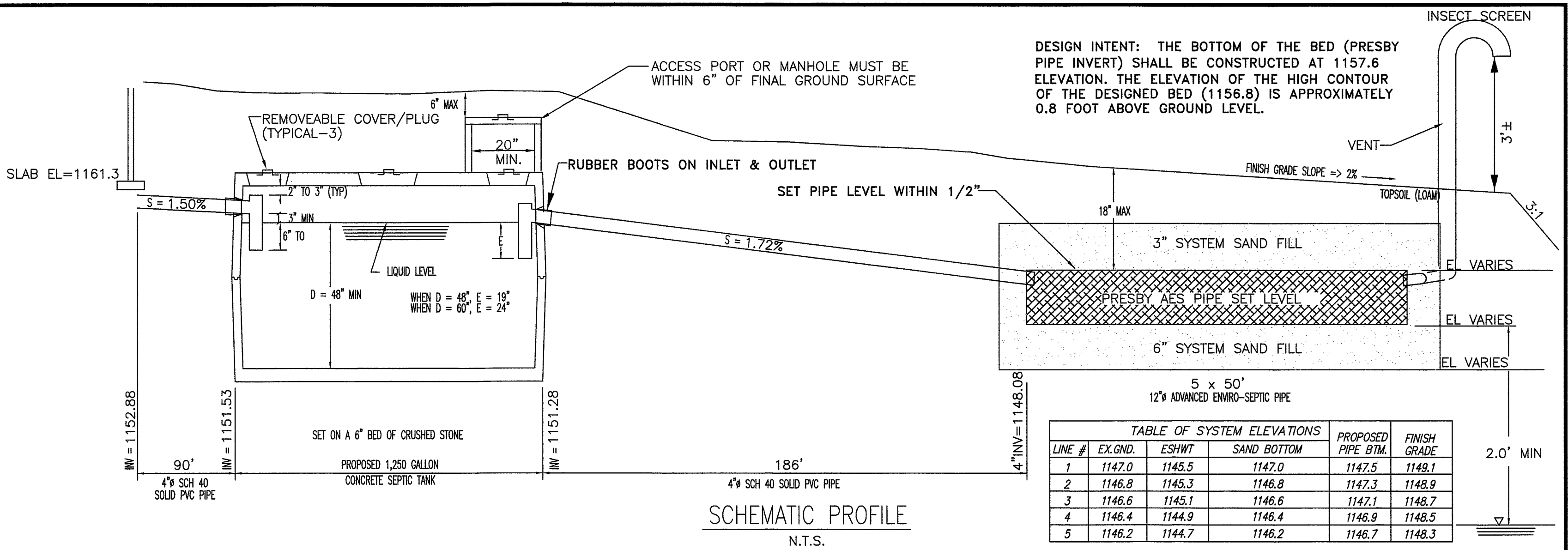
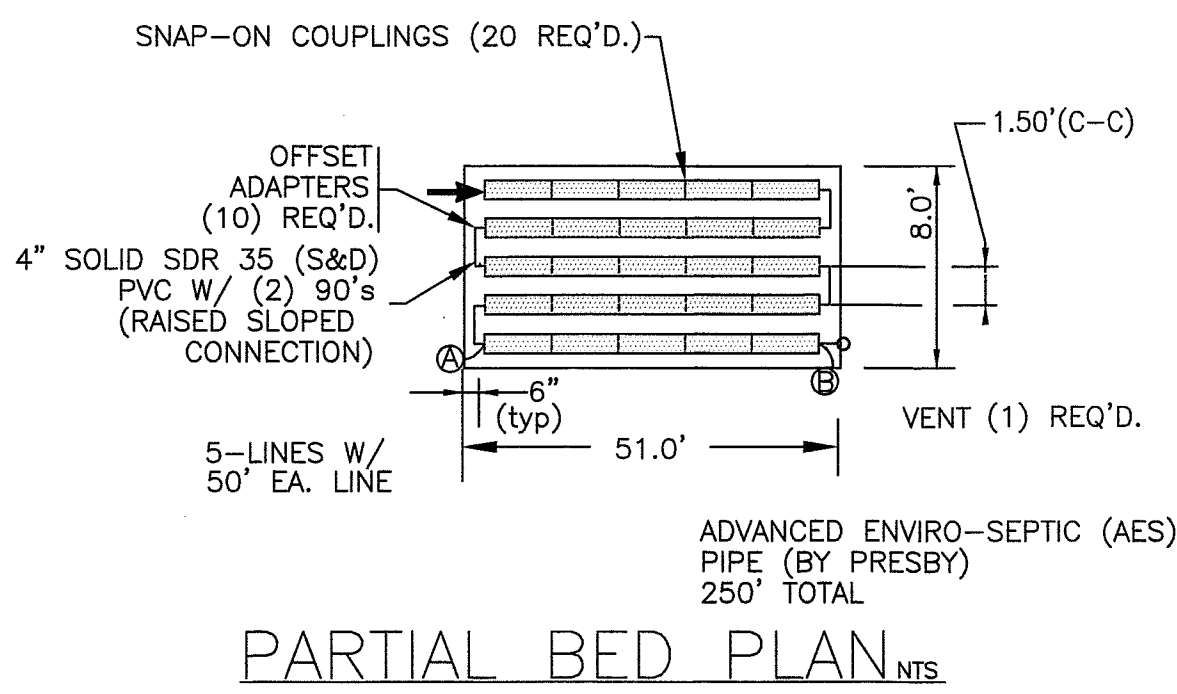
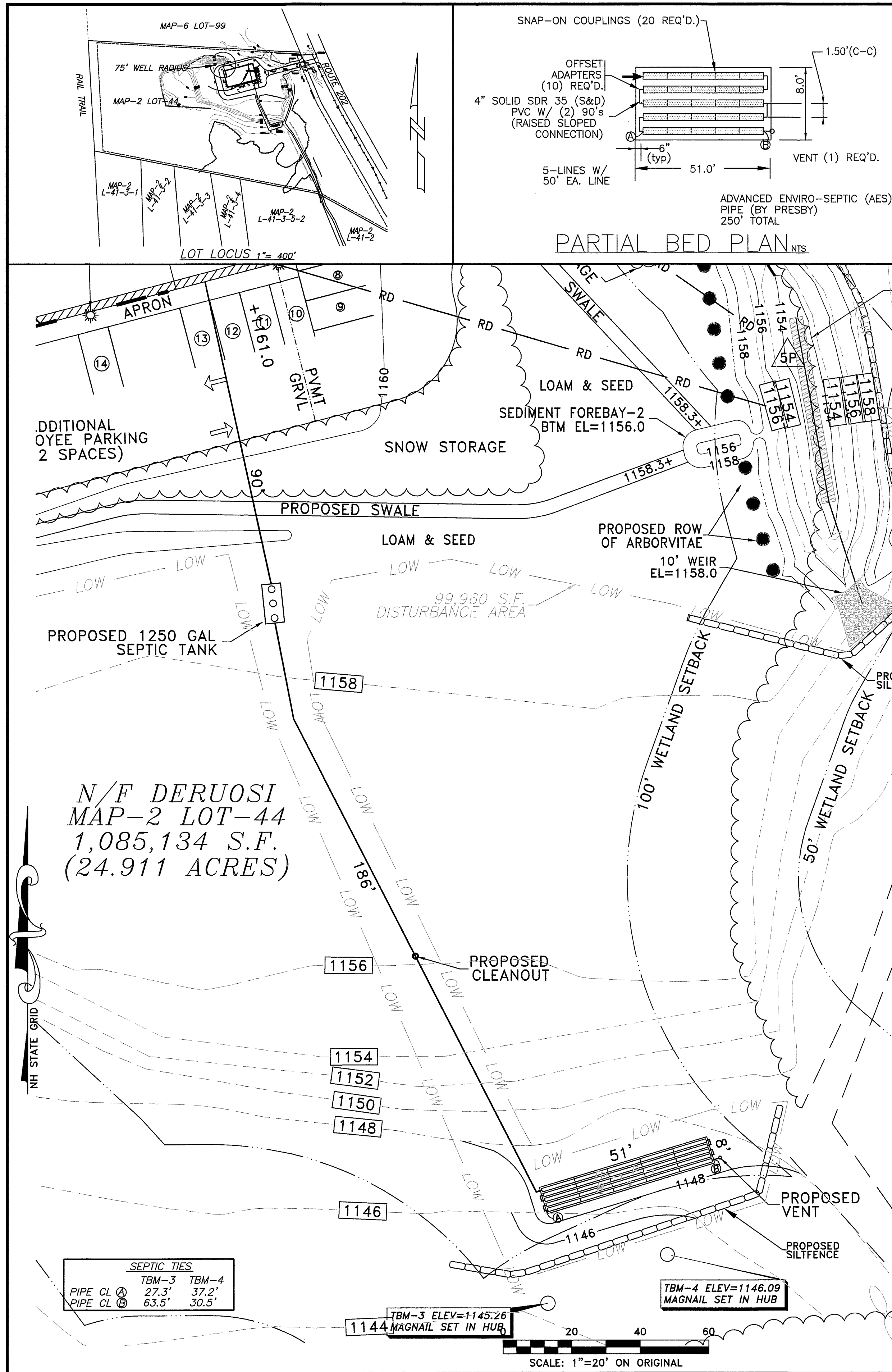
OWNER: TYLER S. DERUOSI  
 P.O. BOX 124  
 RINDGE, NH 03461

NOVEMBER 19, 2020 (SHT 4 OF 7)

GRAZ Engineering, LLC

323 WEST LAKE ROAD; FITZWILLIAM, NH 03447; (603) 585-6959  
 WWW.GRAZENGINEERING.COM





**DESIGN CRITERIA**

- Estimated Hydraulic Loading  
 3,000 S.F. Office Space - 150 GPD  
 18 Warehouse Employees - 180 GPD  
 = 330 GPD Total  
 Garbage disposal shall not be allowed with this system.
- Septic tank size = 1,250 gallons.
- Leaching Area Design Criteria  
 Percolation Rate = 20  
 Required linear feet of AES-septic pipe:  
 71 L.F. per 100 GPD = 3.30 x 71 = 235 L.F. (min)  
 Pipe provided: 250'

**RAISED SLOPED CONNECTION SYSTEM** N.T.S.

- NOTES**
- This ISDS design is for new construction.
  - Underground utility data is plotted from visible field locations and available records. The locations are approximate only and verification must be made in the field and Dig-Safe notified.
  - All work shall be performed by a State Licensed Installer and construction shall conform to the State of New Hampshire requirements as established in Chapter Env-Wq 1000. Installation of the leaching system (EDA) shall conform to the Advanced Enviro-Septic Design and Installation Handbook.
  - The contractor shall install the system exactly as shown on this plan. If changes are necessary, the contractor must contact the Engineer in advance. All costs associated with arbitrary changes due to unauthorized field changes shall be borne by the contractor.
  - Heavy machinery shall not be permitted to pass over the leaching area.
  - All piping shall be polyvinyl chloride (PVC) pipe per ASTM D1785 for sch.40 and ASTM D3034 for SDR 35 where indicated on the profile, unless otherwise noted. S&D pipe shall be SDR 35 PVC.
  - Septic tanks shall be 1,250 gallon reinforced concrete tanks of H-10 load design (min.) and watertight.
  - A distribution box (D-box) is not required.
  - All topsoil, roots and impervious material, if any, must be excavated and removed below and 5' beyond the soil absorption system area (and the 3:1 fill slope). The natural soil shall be hand raked. Special 'SYSTEM SAND' shall be used 3" above, 6" below, between, & 6" beyond sides of the AES PIPE. 'SYSTEM SAND' shall be used for all fill around the ADVANCED Enviro-Septic pipe as specified herein. This sand shall contain no stones larger than 3/4" and meet the following gradation:  
 0%-35% RETAINED ON #10 SIEVE; 40%-90% RETAINED ON #35 SIEVE; 2% MAX TOTAL PASSING A #200.
  - For proper performance, septic tank should be inspected at least once a year and pumped when the combined thickness of the sludge (bottom) and scum (surface) equals 1/3 or more of the tank depth.
  - Should system replacement be required, the system must be replaced in the same location as shown herein.
  - Seal all openings, pipe penetrations and joints with non-shrink grout to preclude exfiltration.
  - Wetlands delineated by Sharon Monahan, CWS#227.
- NOTE: THIS SEPTIC PLAN IS A REVISION TO APPROVED #CA2021051828**

**SOIL TEST DATA**

**DEEP HOLE TESTS** PERFORMED BY: PAUL F. GASEWICZ, P.E. (#1143) PAUL F. GASEWICZ, P.E.  
 DATE: AUGUST 31, 2021 AUGUST 31, 2021

**PERC TESTS** PERFORMED BY: PAUL F. GASEWICZ, P.E. (#1143) PAUL F. GASEWICZ, P.E.  
 DATE: AUGUST 31, 2021 AUGUST 31, 2021

**NRCS SOILS: MONADNOCK FINE SANDY LOAM (143C)**

| PERC TEST NUMBER | DEPTH | PERC RATE | NOTES |
|------------------|-------|-----------|-------|
| P-1              | 17"   | 20 MPI    | TP-1  |

**LOCUS** N.T.S.  
 DIRECTIONS: SITE IS THE FIRST LOT SOUTH OF HANNAFORDS

**LEGEND**

|     |                    |       |                         |
|-----|--------------------|-------|-------------------------|
| 242 | EXISTING CONTOUR   | x98.3 | EXISTING SPOT ELEVATION |
| 242 | PROPOSED CONTOUR   | W     | WATER SERVICE           |
| TP  | DEEP HOLE TEST PIT | FD    | FOOTING DRAIN           |
| PT  | PERCOLATION TEST   | +99.7 | PROPOSED SPOT ELEVATION |

APPROVED BY THE PLANNING BOARD ON \_\_\_\_\_ AND BY THE DIRECTOR OF PLANNING \_\_\_\_\_

| NO. | DESCRIPTION                            | DATE     | BY  |
|-----|--|----------|-----|
| 6   | REV WELL & ABUTTER PER PLANNER         | 10/18/21 | PFG |
| 5   | REVISED SITE PLAN                      | 10/11/21 | PFG |
| 4   | MOVED SEPTIC / ADDED TBM POINTS        | 9/24/21  | TNR |
| 3   | ADDED NEW TIES/ TBM POINTS             | 5/5/21   | TWF |
| 2   | ADDED SHEET-7                          | 1/4/21   | PFG |
| 1   | REVISED PER PLANNING DIRECTOR COMMENTS | 12/28/20 | PFG |

**DESIGNED BY** PFG  
**DATE** 11/19/20  
**SCALE** AS NOTED  
**JOB NUMBER** 20126

**SEPTIC SYSTEM DESIGN PLAN**  
 MAP-2 LOT-44; ROUTE 202 SOUTH; RINDGE, NH 03461

PREPARED FOR:  
**TYLER S. DERUOSI**  
 P.O. BOX 124; RINDGE, NH 03461

**GRAZ Engineering, LLC**  
 323 WEST LAKE ROAD; FITZWILLIAM, NH 03447; (603) 585-6959

SEPTIC SHEET 1 OF 1  
 SITE SET SHT 5 OF 7



**EROSION CONTROL NOTES**

- INSTALL THE EROSION CONTROL (SILT FENCING AND HAY BALES AS SHOWN ON PLANS), PRIOR TO ANY ADDITIONAL EXCAVATION OR ALTERATIONS ON SITE. INSPECT WEEKLY & AFTER EVERY 1/2 INCH OF RAINFALL.
- CONSTRUCT COBBLE STONE STABILIZED ENTRANCE APRON (50' LONG X 20' WIDE PER DETAIL (INCLUDING CULVERT AND GRAVEL)).
- THE CONSTRUCTION SEQUENCING SHALL BE AS FOLLOWS:
  - INSTALL PERIMETER EROSION CONTROLS.
  - CONSTRUCT WATER QUALITY SWALES AND DETENTION BASINS.
  - STABILIZE SLOPES IN WATER QUALITY SWALE AND DETENTION BASINS. ALL ELEMENTS TO RECEIVE RUNOFF SHALL BE FIRST STABILIZED PRIOR TO DIRECTING WATER TO THEM. UTILIZE NORTH AMERICAN GREEN'S C350 EROSION CONTROL/TURF REINFORCEMENT MAT. USE LOAM SEED & MULCH IN BASINS IF IN GROWING SEASON.
  - REMOVE TREES, STRIP, AND STOCKPILE SOILS. IF STOCK PILE IS LEFT FOR MORE THAN 21 CALENDAR DAYS, IT SHALL BE COVERED WITH A TEMPORARY VEGETATIVE COVER (RYEGRASS OR APPROVED EQUAL).
  - MAKE CUTS AND FILLS AND SIDE SLOPES AND CONSTRUCT TEMPORARY WATER BARS AS NEEDED.
  - LOAM SIDE SLOPES & SEED/MULCH WITHIN 72 HOURS OF FINAL GRADE.
  - INSTALL PERMANENT DRAINAGE STRUCTURES, SUB DRAINS, AND SWALES/ CHECK DAMS.
- SLOPE SEEDING SHALL BE STANDARD NHDOT SLOPE SEED TYPE-44 MIX. SEED APPLICATION SHALL CONTAIN STABILIZING STRAW MULCH. SEEDING DATES SHALL CONFORM WITH STANDARD SPRING OR FALL PLANTING SEASON. TEMPORARY SEEDING SHALL BE AN ANNUAL RYEGRASS (OR RYEGRASS BLEND) SUITABLE FOR THE LOCALE.
- STAKED & ENTRENCHED HAY BALES SHALL BE PLACED AROUND CATCH BASIN AND DRAINAGE OUTFALLS. INSPECT AND REPAIR EROSION CONTROLS AND CONCENTRATED FLOW AREAS AT LEAST WEEKLY AND FOLLOWING EACH RAINFALL (1/2" OR MORE), OR FOLLOWING SNOW MELTS. REMOVE SEDIMENT FROM CATCH BASIN SUMPS AND CHECK DAMS. SEE I & M MANUAL.
- ADDITIONAL HAY BALE DAMS SHALL BE INSTALLED IN AREAS OF CONCENTRATED RUNOFF AND GEOTEXTILES AND RIP-RAP ADDED AS NECESSARY TO REDUCE FLOW ENERGY AND PRECLUDE SOIL EROSION.
- SEDIMENT TRAPS/BASINS SHOULD BE USED AS NECESSARY TO CONTAIN RUNOFF UNTIL BASINS/PONDS ARE STABILIZED. ONCE PERMANENT SWALES AND BASINS ARE CONSTRUCTED, A LAYER OF MIRAFI 140N (OR EQUAL) FABRIC SHOULD BE INSTALLED TO AID IN THE BASIN CLEANING DURING THE UNSTABILIZED SITE CONDITIONS, AUGMENTED WITH FILTERS PER DETAIL WHEN APPROPRIATE.
- THE SMALLEST PRACTICAL AREA SHALL BE DISTURBED AT ANY ONE TIME DURING CONSTRUCTION. STABILIZATION SHALL MEAN:
  - BASE COURSE GRAVEL IN PLACE,
  - A MINIMUM OF 85% OF SURFACE VEGETATION IS ESTABLISHED,
  - A MINIMUM OF 3" OF STONE OR RIP-RAP INSTALLED,
  - EROSION CONTROL BLANKET/MATTING HAS BEEN PROPERLY INSTALLED. BARE EARTH WHICH CANNOT BE READILY STABILIZED WITH PERMANENT OR TEMPORARY SEED MIX DUE TO CONSTRUCTION TIMING OUTSIDE OF PLANTING SEASONS, SHALL BE STABILIZED WITH NORTH AMERICAN GREEN'S S150BN EROSION CONTROL/TURF REINFORCEMENT MAT.
- THE SITE CONTRACTOR SHALL MAKE DAILY INSPECTIONS OF SITE STABILIZATION MEASURES AND MAKE ADJUSTMENTS AND REPAIRS WHERE NECESSARY.
- ALL DISTURBED AREAS SHALL BE STABILIZED WITHIN 45 DAYS OF INITIAL DISTURBANCE. ALL ROADWAYS/ PARKING AREAS SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE. LOT DISTURBANCE, OTHER THAN THAT SHOWN ON THE APPROVED PLANS, SHALL NOT OCCUR UNTIL AFTER THE ROADWAY AND ASSOCIATED DRAINAGE HAVE BEEN COMPLETED AND STABILIZED.
- WINTER CONSTRUCTION NOTES:
  - ALL PROPOSED VEGETATED AREAS WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATED GROWTH BY OCTOBER 15th, OR WHICH ARE DISTURBED AFTER OCTOBER 15th, SHALL BE STABILIZED BY SEEDING AND INSTALLING EROSION CONTROL BLANKETS ON SLOPES STEEPER 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% VEGETATED GROWTH BY OCTOBER 15th, OR WHICH ARE DISTURBED AFTER OCTOBER 15th, SHALL BE STABILIZED TEMPORARILY WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS; AND,
  - AFTER OCTOBER 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/SPEC. 304.3.

**MISCELLANEOUS NOTES:**

- THE CONTRACTOR (DURING CONSTRUCTION) AND OWNERS SHALL MANAGE SITE OPERATIONS TO PRECLUDE THE INTRODUCTION OF ANY INVASIVE/ALIEN SPECIES AND SHALL COMPLY WITH THE INTENT OF RSA 430:53 AND AGR-3800.
- THE SITE CONTRACTOR SHALL TAKE ANY REQUIRED PRECAUTIONS AND PROCEDURES TO PRECLUDE FUGITIVE DUST FROM BECOMING AIR-BORNE AND SHALL BE CONTROLLED IN ACCORDANCE WITH ENV-A 1000.

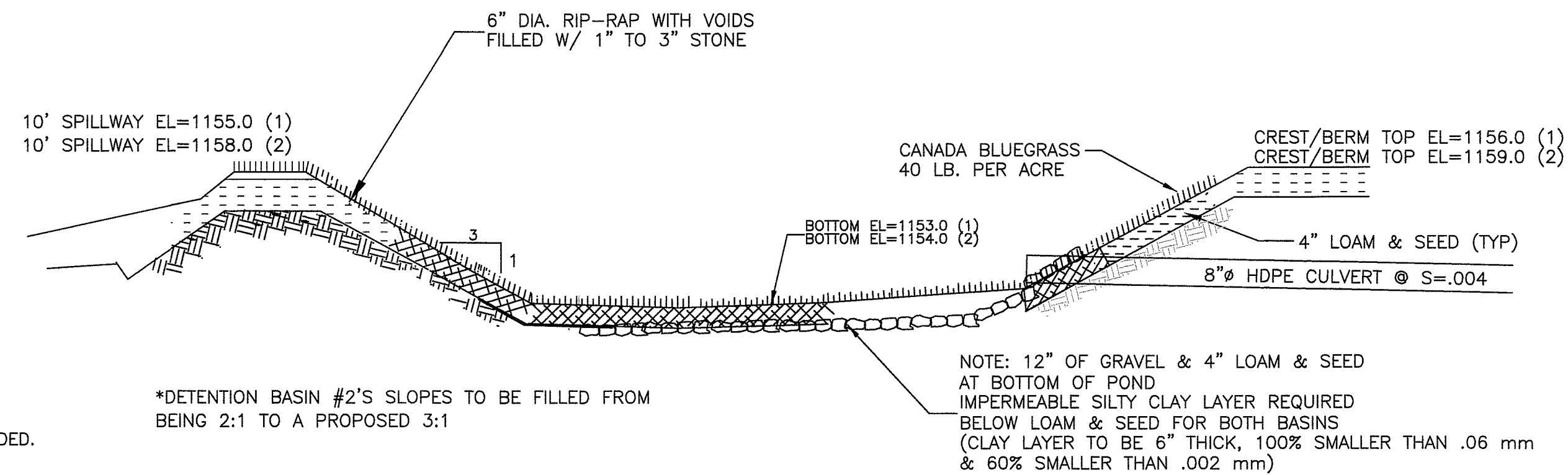
**STORMWATER SYSTEM OPERATION & MAINTENANCE:**

- RESPONSIBILITY- THE APPLICANTS SHALL BE RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF THE STORMWATER SYSTEM.

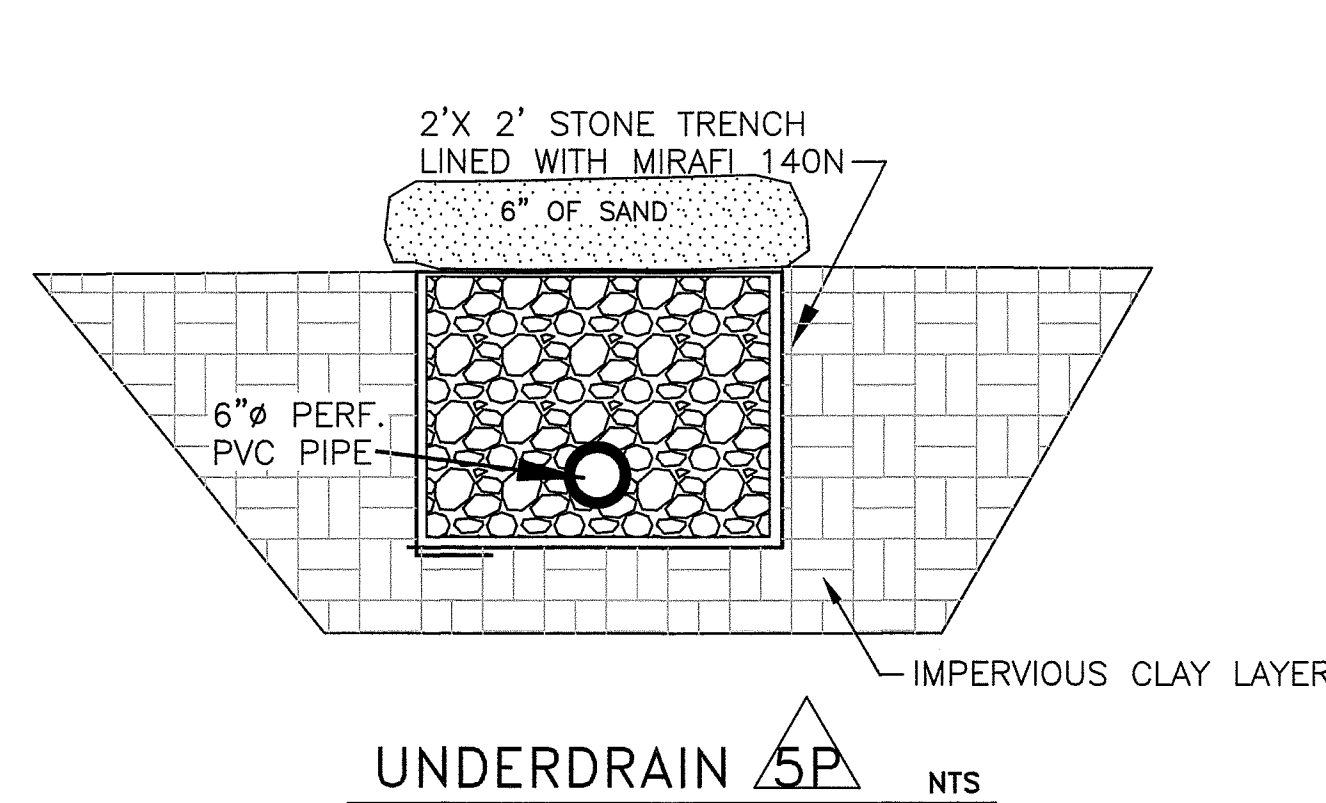
**Wetland Crossing Construction Sequencing**

Below is a list of the proposed construction sequencing for the project from pre-construction to completion of the project.

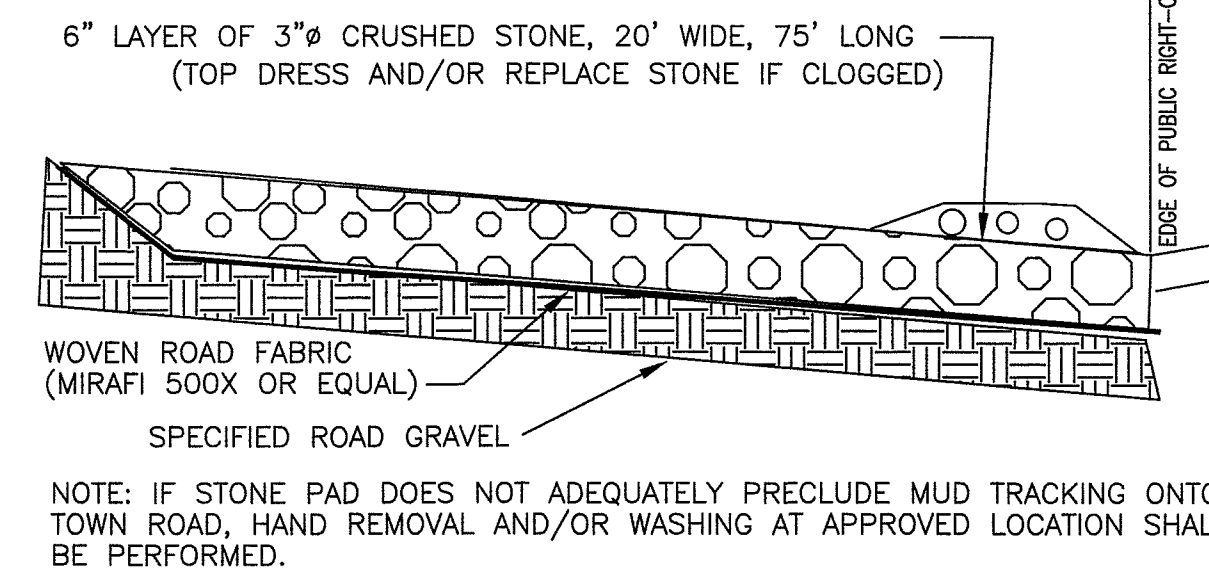
- Erosion controls shall be installed per the plan.
- Any shrubs/trees that need removal shall be cut down/removed.
- Excavate out wetland soil, stockpile said soil & install erosion control around stockpile.
- Install metal pipe arch culvert & embed bottom of culvert with stockpiled wetland soil to simulate an open bottom culvert for organism passage.
- Construct headwalls & begin backfill of the crossing. Construct sediment forebays and detention ponds for wetland crossing drainage.
- Bring fill to near finish grade & add gravel for temporary access into the site. Install temporary earthen berms on both sides of the access drive to divert water toward the sediment basins until pavement & curbing is complete.
- Upon completion of site development, install permanent paved driveway and bituminous berms.
- Once site is stabilized, remove all erosion controls.



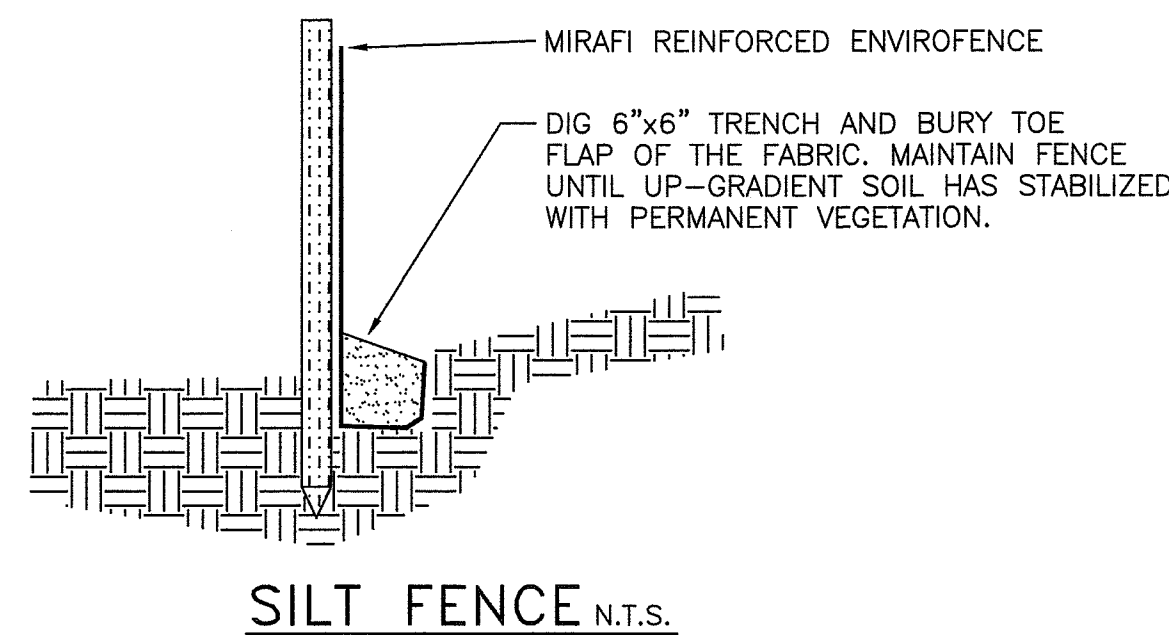
**TYPICAL BASIN CROSS SECTION NTS**



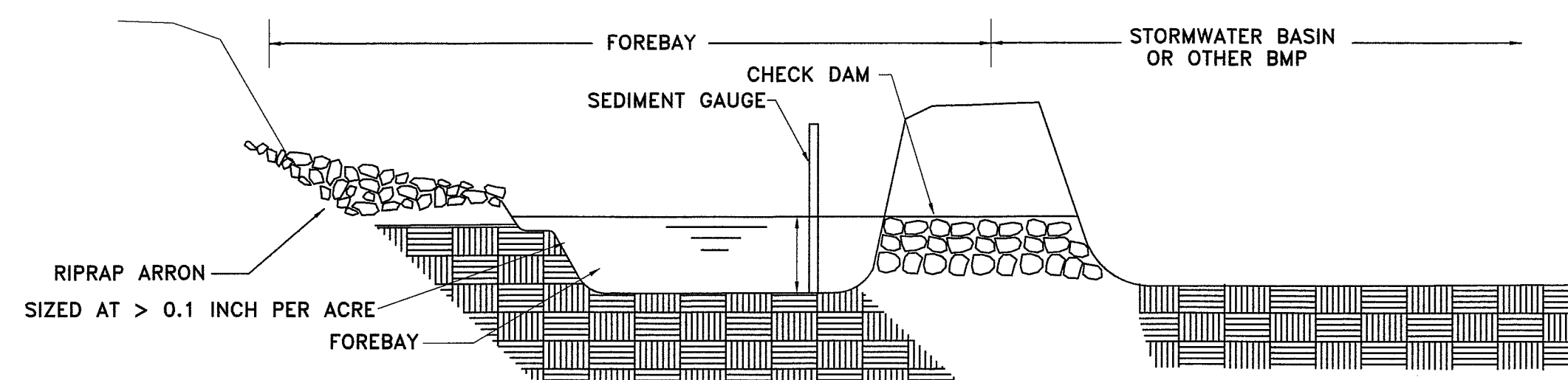
**UNDERDRAIN 5P NTS**



**CONSTRUCTION ENTRANCE DETAIL NTS**



**SILT FENCE N.T.S.**



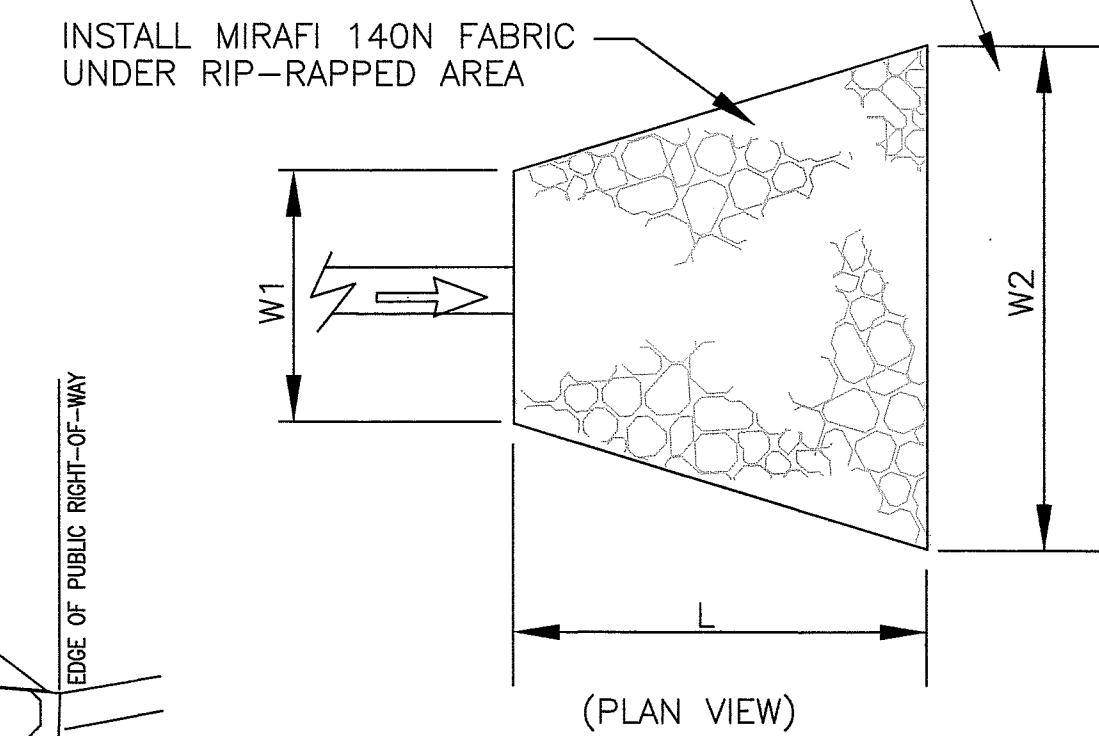
|      | BOTTOM | BERM   | WEIR   |
|------|--------|--------|--------|
| FB 1 | 1153.0 | 1156.0 | 1154.8 |
| FB 2 | 1156.0 | 1159.0 | 1158.1 |
| FB 3 | 1156.0 | 1158.0 | 1157.5 |

**SEDIMENT FOREBAY (TYP) NTS**

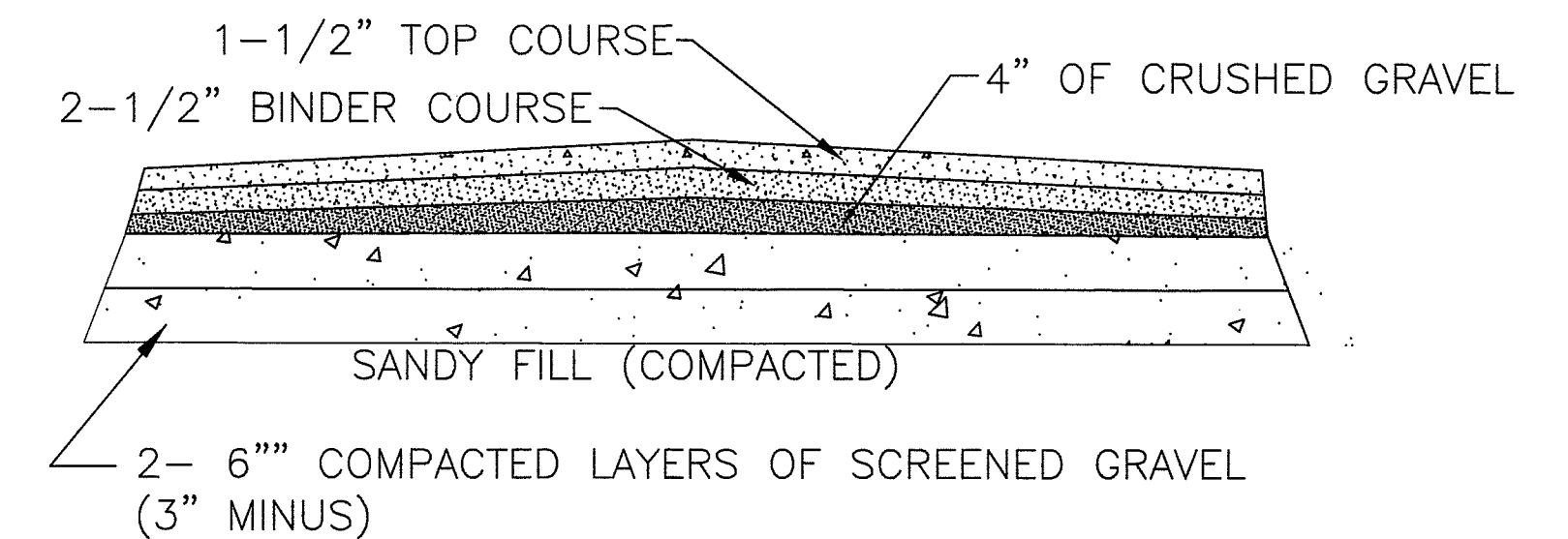
| 50 YR FLOW                 | W1       | W2   | L     | S   |      |
|----------------------------|----------|------|-------|-----|------|
| 10' WEIR FROM DET. BASIN 1 | 0.29 CFS | 10'  | 20'   | 10' | 6" Ø |
| 10' WEIR FROM DET. BASIN 2 | 1.32 CFS | 4.5' | 11.5' | 10' | 6" Ø |

TEMPORARY HAYBALES DURING CONSTRUCTION

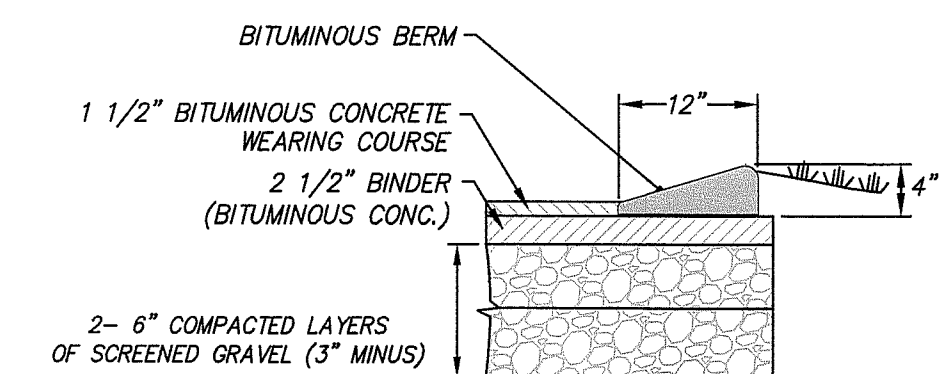
RIP RAP ALONG SWALE CORNERS SHALL BE 6" Ø IN ORDER TO SLOW FLOW TO REDUCE EROSION



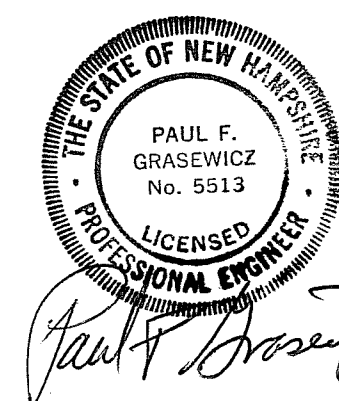
**RIP-RAP APRON DETAIL NTS**



**PAVED DRIVE CROSS-SECTION NTS**



**BITUMINOUS BERM**



APPROVED BY THE PLANNING BOARD ON \_\_\_\_\_ AND BY THE DIRECTOR OF PLANNING \_\_\_\_\_

PREPARED BY: **GRAZ Engineering, LLC**

PREPARED FOR: **DISCOUNT TIRE & SERVICE**

SCALE AS NOTED

DATE 11/19/20

| NO. | REVISIONS                                 | DATE     | BY  | DES      | CHK | APPD |
|-----|---|----------|-----|----------|-----|------|
| 5   | REV. WELL & ABUTTER PER PLANNING DIRECTOR | 10/18/21 | PTG | 10/18/21 | TWF |      |
| 4   | REVISED SITE PLAN                         | 10/17/21 | PTG | 10/17/21 | DRN |      |
| 3   | REV. PER DES-WETLANDS & PLANNING BOARD    | 1/19/21  | PTG | 1/19/21  | CHK |      |
| 2   | 4:1 SLOPE PER NHDOT & ADDED SHEET-7       | 1/4/2021 | PTG | 1/4/2021 |     |      |
| 1   | REVISED PER PLANNING DIRECTOR COMMENTS    | 12/28/20 | TWF | 12/28/20 |     |      |

STORMWATER NOTES & DETAILS SHEET

SHEET 6 OF 7

