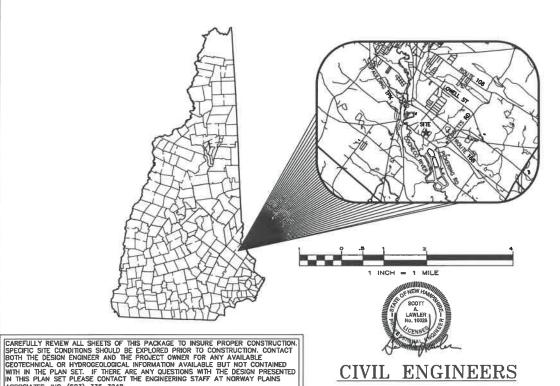


BUILDING EXPANSION SITE PLAN

FOR

Jaeger USA, INC.

TAX MAP 141 LOT 29 104 PICKERING ROAD ROCHESTER, N.H. **JUNE 2017**



NADEAU PICKERING ROAD

> OVERALL SITE 1" = 100'

OWNER

JAEGER USA, INC. 104 PICKERING ROAD ROCHESTER, NH 03867-4604 (603) 332-5816



NATIONAL POLLUTANT DISCHARGE SLIMMATION SYSTEM (NEDES):
NPDES PERMITS ARE ONLY REQUIRED FOR PROJECTS MEETING THE DISTURBED
CRITERIA BELOW AND HAVING A POINT SOURCE STORMWATER DISCHARGE FROM
SITE TO AN ADJACENT WEILAND OR WATER BODY (I.E. CULVERT, SWALE, ETC.
OUTLETING TO A WEILAND, CREEK, STREAM OR RIVER.)

NPDES PERMITS CONSIST OF A NOTICE OF INTENT (NOI) FILED WITH THE ENVIRONMENTAL PROTECTION AGENCY AT LEAST 14 DAYS PRIOR TO CONSTRUCTION COMMENCING AND A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) BEING PREPARED, KEPT ON SITE AND FOLLOWED BY THE CONTRACTOR.

FINAL APPROVAL BY ROCHESTER PLANNING BOARD

COVER OVERALL SITE PLAN AS SHOW AS SHOW UTILITIES DETAILS TEMPORARY EROSION CONTROL DETAILS

NORWAY PLAINS ASSOCIATES, INC.

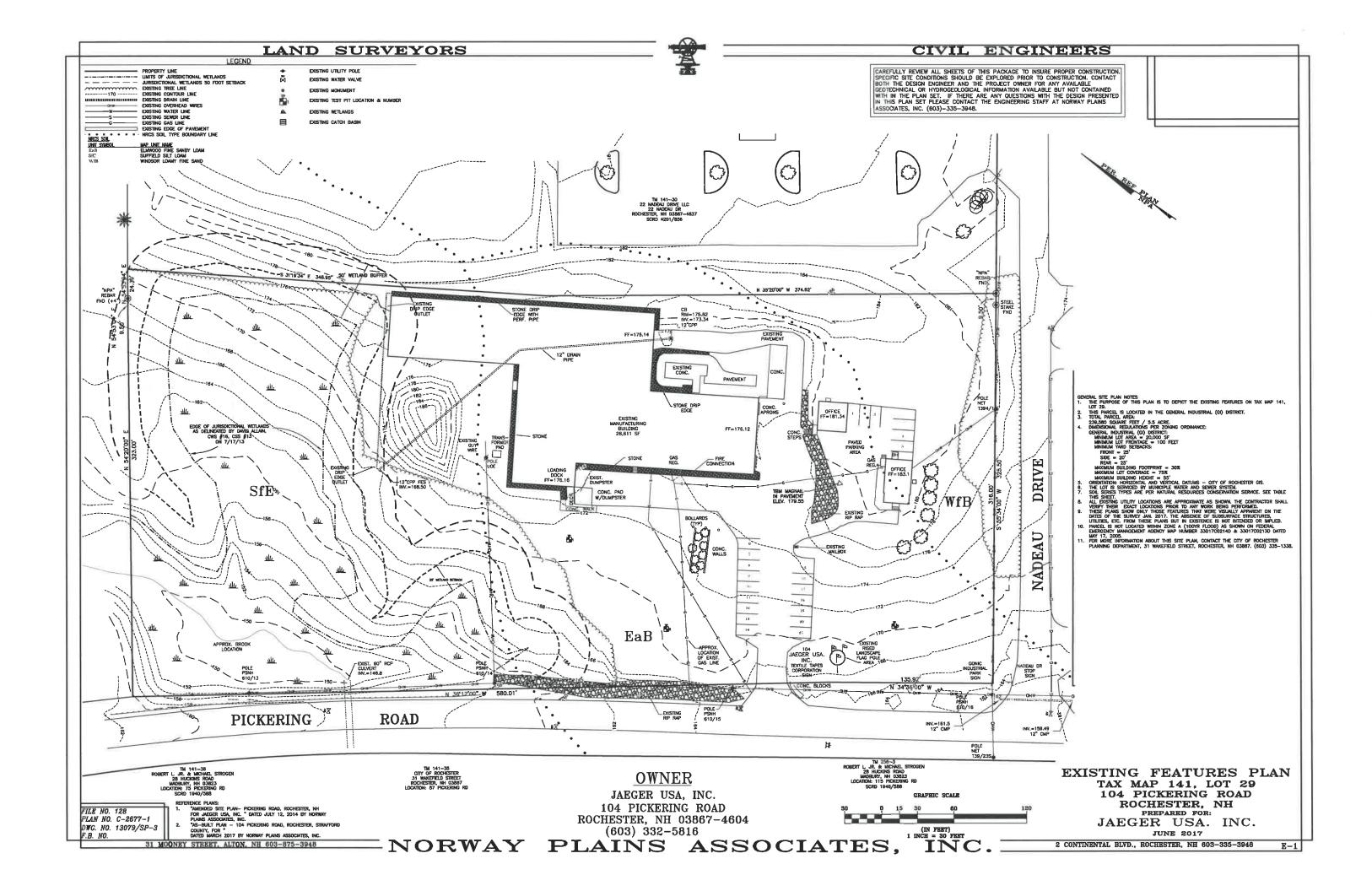
2 CONTINENTAL BOULEVARD

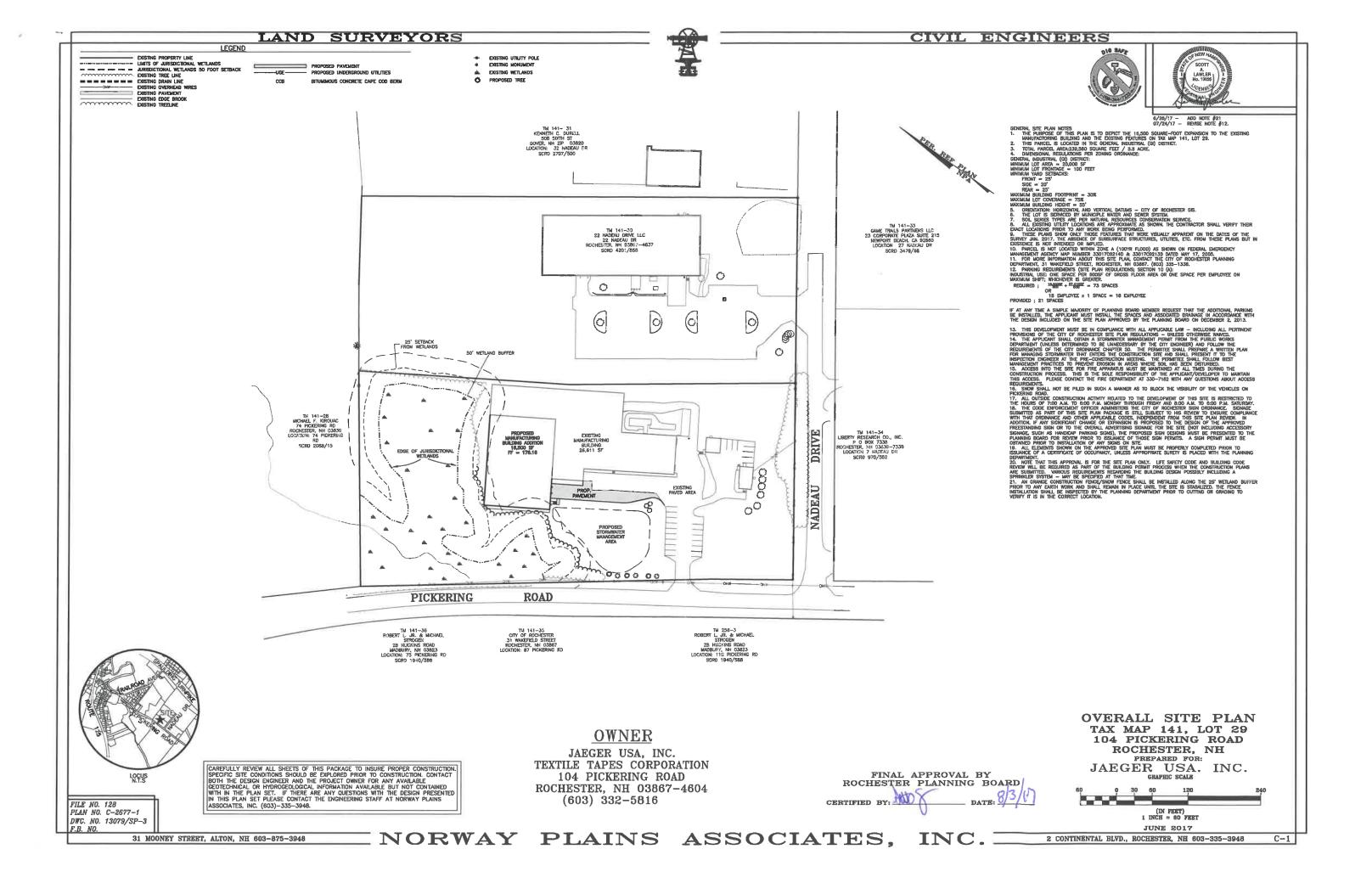
ROCHESTER, NEW HAMPSHIRE 03867

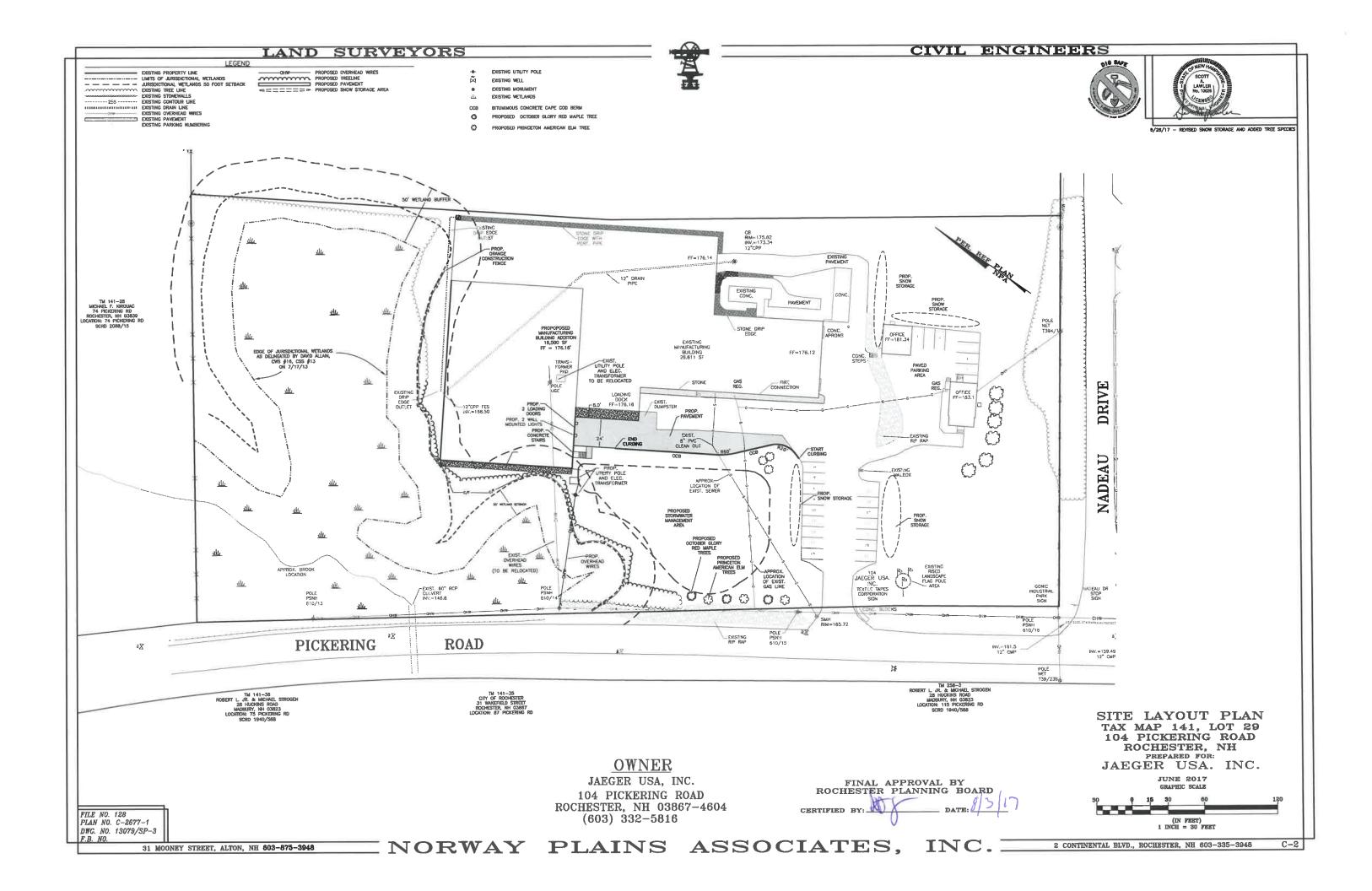
(603) 335-3948

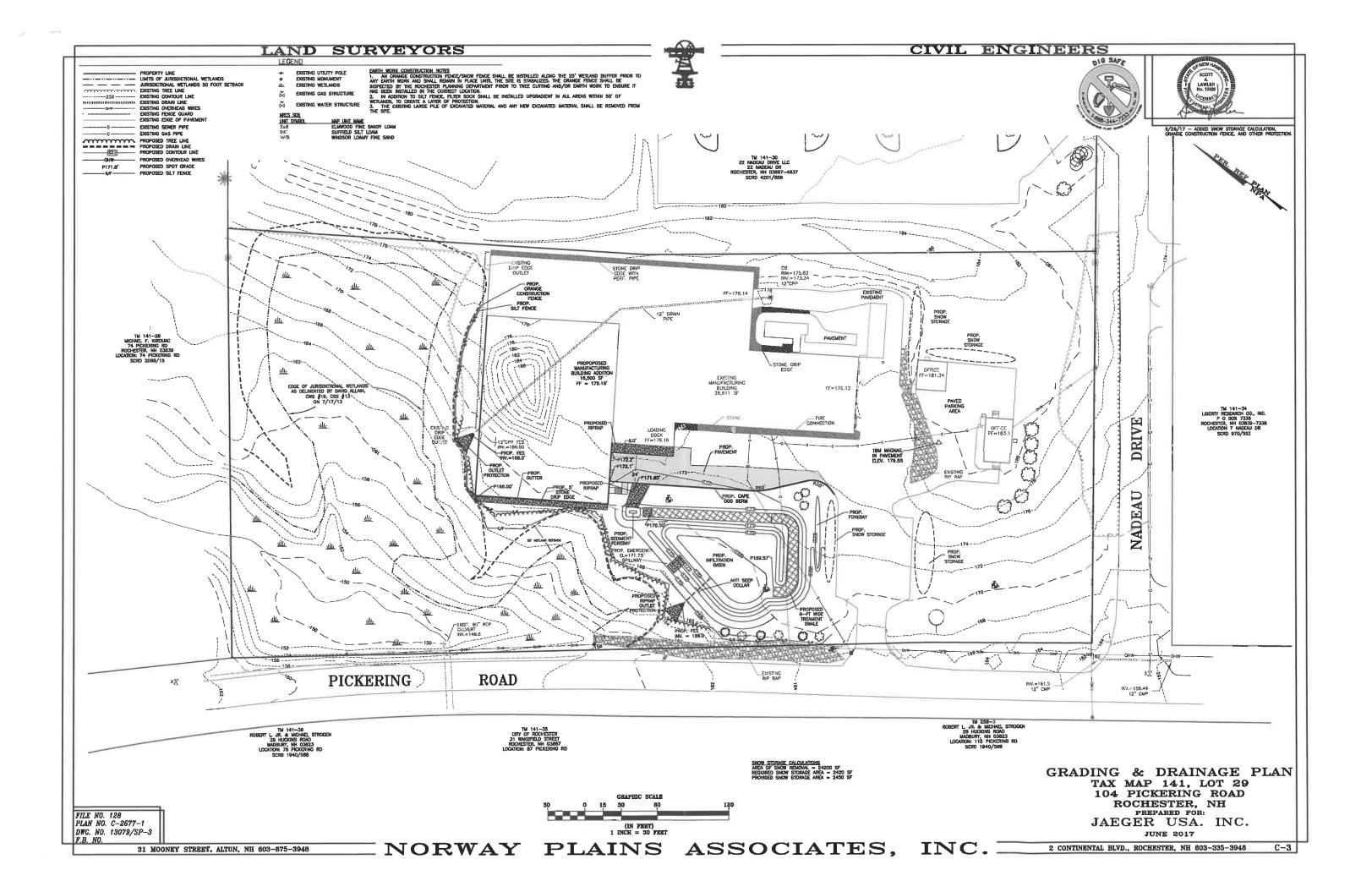
FILE NO. 128 PLAN NO. C-2677-1

DWC. NO. 13079/SP-3

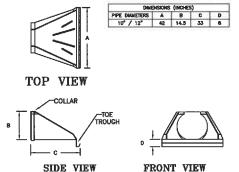




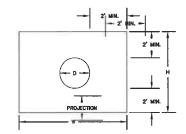




LAND SURVEYORS



HDPE FLAIRED END SECTION DETAIL NOT TO SCALE



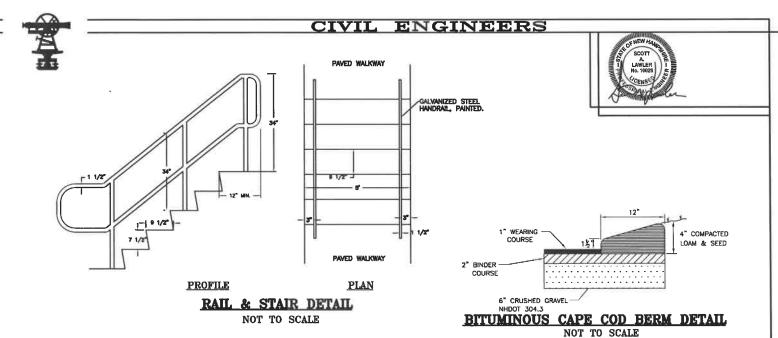
ANTI-SEEP COLLAR DETAIL

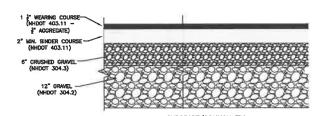
NOT TO SCALE

RS SHALL BE MADE PLASTIC IF BEING USED WITH PLASTIC PIPE. ANTI-SEEP COLLARS SHALL BE GALVINIZED SHEET SED WITH CORRUGATED METAL PIPE AND SHALL BE POURED CONCRETE IF BEING USED WITH REINFORCED CONCRETE

ENSURE ITS APPROPRIATENESS AND TO GET APPROVAL FOR ITS

COLLAR DIMENSION TABLE





PARKING LOT CROSS-SECTIONS

NOT TO SCALE



XTOR CROSSTOUR MAXX LED BY LUMARK WALL MOUNTED FIXTURE

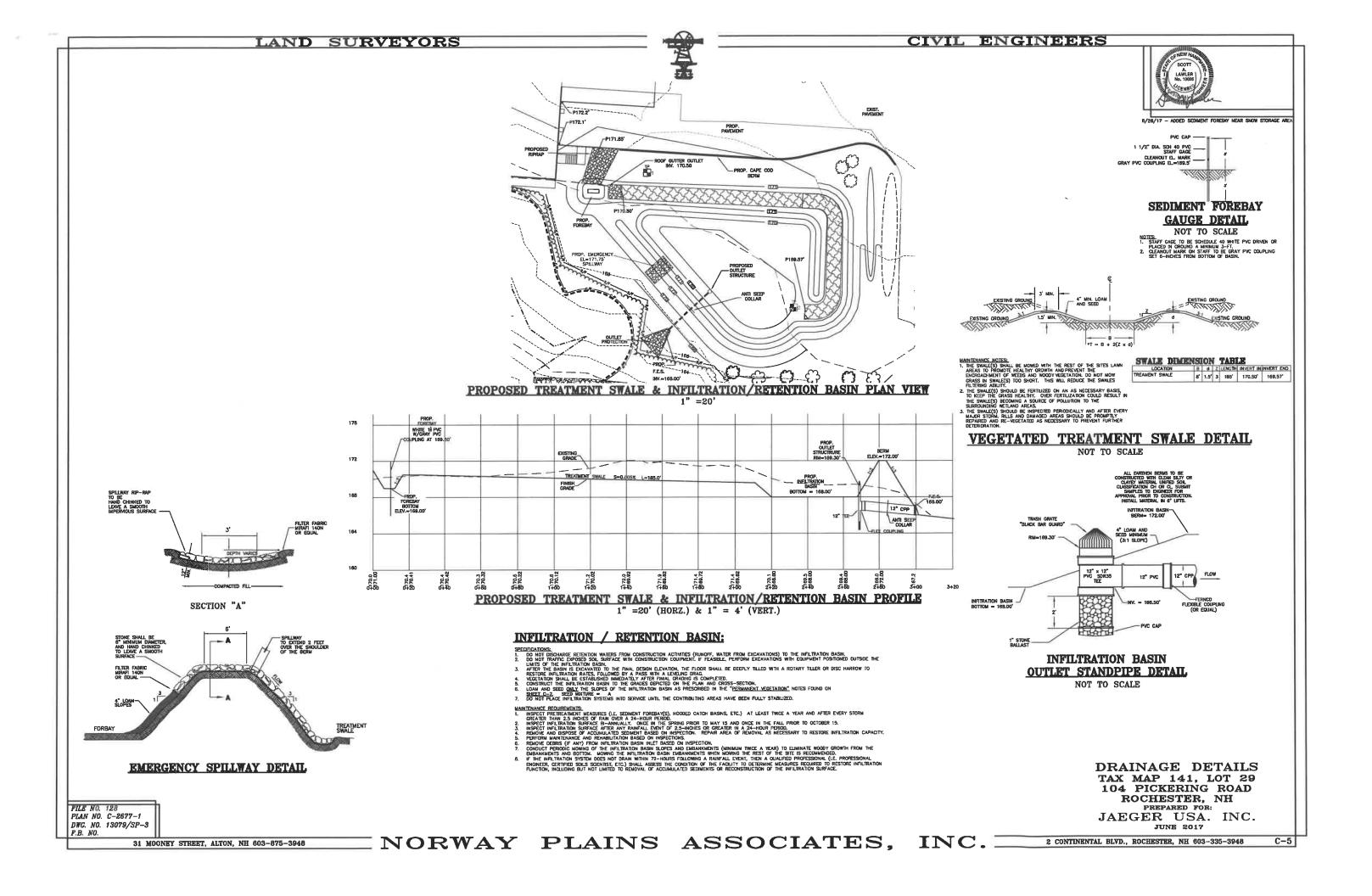
DRAINAGE PIPE TRENCH INSTALLATION DETAIL NOT TO SCALE

(WHICHEVER IS GREATER)

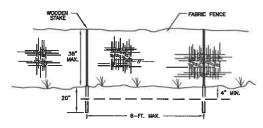
CONSTRUCTION & UTILITIES **DETAILS** TAX MAP 141, LOT 29 104 PICKERING ROAD ROCHESTER, NH

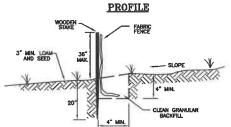
PREPARED FOR: JAEGER USA. INC.

JUNE 2017



LAND SURVEYORS





CROSS-SECTION

MAINTENANCE REQUIREMENTS: 1. FENCES SHALL BE INSPECTED AND MAINTAINED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALLS;

SEDMENT DEPOSITION SHALL BE REMOVED, AT A MINIMUM, WHEN DEPOSITION ACCUMULATES TO ONE-HALF THE HEIGHT OF THE FENCE, AND MOVED TO AN APPROPRIATE LOCATION SO THE SEDIMENT IS NOT READILY TRANSPORTED BACK TOWARD THE SLT

- PENCE, AND MOVED IT OAN APPRICHABLE LOCATION SO THE SEDIMENT IS NOT READLY TRANSPORTED BACK TOWARD THE SET PENCE. TRANSSCRIPT OF AN EXPERIMENT STATE OF THE FORCE ANY SIGNS OF ENGINEER OF THE PROPERTY OF THE PENCE. THE PROPERTY OF THE PENCE OF THE PROPERTY OF THE DID OF THE PENCE VOLUMES OF WATER BEAND THAT AS SEDIMENT BEARDERS SHALL BE REPLACED WITH A TEMPORARY OF THE DID OF THE EXPECTED USABLE LIFE AND THE BARRER STALL IS RECESSARY. THE FARSE SHALL BE REPLACED PROMPLY. ANY SEDIMENT DEPOSITS REDAMINION IN PLACE AFTER THE SLIT PENCE IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE PROPARED AND SEEDED.

 IF THERE IS ENDENCE OF END FLOW ON PROPERTY INSTALLED BRARRIERS, EXTEND BARRIERS UPHALL OR CONSIDER REPLACING THEM WITH OTHER MEASURES, SLICH AS TEMPORARY TOWNS ON SECOND THAT AS TOWN OF THE PENCE IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE PREPARED AND SEEDED.

 IF THERE IS ENDENCE OF END FLOW ON PROPERTY INSTALLED BRARRIERS, EXTEND BARRIERS UPHALL OR CONSIDER REPLACING THEM WITH OTHER MEASURES, SLICH AS TEMPORARY TOWNS ON SECOND. ON LONGER CONSTRUCTION PROJECTS, SLIT FENCE SHALL BE REPAIRED PROMODILLY AS REQUIRED TO MAINTAIN STRETCHENESS.

PROBLEMENT OF MATTER SEASON OF MATTER ENGANCE OF MATTER SEASON WILL OCCUR ONLY IN THE FORM OF SHEET EROSON AND THERE IS NO CONCINCIANTIAN OF WAITER IN A CHANGEL OF DIMINAGE WAY ASSON THE FENCE. SCOMENT BARGERS SHALL BE WESTALLED PRIOR CONCINCIANTIAN OF WAITER IN A CHANGEL OF DIMINAGE WAY ASSON THE FENCE. SHALL BE LESS THAN 1 ACRE PER 100 LINEAR FEET OF FENCE.

THE MAXIMUM CONTRIBUTING DRAWAGE AREA ASSON. THE FENCE SHALL BE LESS THAN 1 ACRE PER 100 LINEAR FEET OF FENCE.

THE MAXIMUM LEGIST OF SCOPE ASSON THE FENCE SHALL BE LESS THAN 1 ACRE PER 100 LINEAR FEET OF FENCE.

THE MAXIMUM SLOPE ASSON THE FENCE SHALL BE 212.

THE FENCE SHALL BE RESIDED FELLOWING THE FENCE SHALL BE LOO FEET.

E THE FAGRIC SHALL BE EMBEDDED A MINIMUM OF 4 INCHES IN DEPTH AND INCHES IN WIDTH IN A TRENCH EXCAVATED INTO THE FORDING ON F STEE CONDITIONS INCLUDED, COT THE PRESENCE OF HEAVY ROOTS, THE BASE OF THE FAGRIC SHALL BE EMBEDDED WITH A MINIMUM THOMESS OF B INCHES OF 3/4-HICH STONE;

C. HE SOLL SHALL BE COMPARED OVER THE EMBEDDED TARRIC;

D. SUPPORT FORS SHALL BE SEED AND ANCHORED ACCORDING TO THE MANUACTURER'S INSTRUCTIONS WITH MAXIMUM POST CALL BE ADMINISHED BY THE PERSON OF THE MANUACTURER'S INSTRUCTIONS WITH MAXIMUM POST CALL BOOK OF THE PERSON OF TH

- ANDIMINIS ESCENDED OF THE FENCE SHALL BE OVERLAPPED BY A MINIMUM OF 8 INCHES (24 NICHES IS PREFERRED), FOLDED AND STAPLED TO A SUPPORT POST. IF METAL POSTS ARE USED, FABRIC SHALL BE WIRE-TIED DREECTLY TO THE POSTS WITH MREE DIAGONAL TES.

- THESE DAGONAL TIES.

 THOMS DAGONAL TIES.

 THE PROMISH SHALL BUT BE STAPLED OR NALED TO TREES.

 FILTER FABRIC SHALL BE A PERFLOUS SHEET OF PROPULER, INVON, POLYESTER OR ETHYLENE YARM AND SHALL BE CERTIFIED THE MANUFACTURE OR SUPPLIED.

 FILTER FABRIC SHALL CONTAIN ULTIMANULT BAY PRINTED SHAD STABLIZEES TO PRODUCE A MINIMUM OF 8 MONTHS OF THE THE FABRIC SHALL CONTAIN ULTIMANULT BAY PRINTED SHAD SHADED SHALL BE SHAPENHET.

 THE FABRIC SHALL CONTAIN ULTIMANULT BAY PRINTED SHAD STABLIZEES TO PRODUCE A MINIMUM OF 8 MONTHS OF 8 MINIMUM SHADE PRINTED SHALL BE EITHER A—BOY DAMERTE WOOD OR 13.39 POUNDS FOR LINEAR FOOT STEEL WITH A MINIMUM STHO OF 5 FEET. STEEL POSTS SHALL HAVE, PROJECTIONS FOR FASTENING WIRE TO THEM, POSTS SHALL BE PLACED ON THE NO.
- OF THE FABRIC.
 SIT FIRES SHALL NOT EXCEED 36 INCHES AS HIGHER FENCES MAY IMPOUND VOLUMES OF WATER SUFFICIENT TO
 STALL BE FABRICASED IN A CONTINUOUS ROLL OUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF
 WITH A FER FABRICASED IN A CONTINUOUS ROLL OUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF
 WITH A FER FABRICASED IN A CONTINUOUS ROLL OUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF
 WITH A FER FABRICASED IN A CONTINUOUS ROLL OUT TO THE LENGTH ONLY AT SUPPORT POST, WITH A MINIMUM

- INTS WINEN JOINTS ARE NECESSARY, FILTER WATER STATEMENT OF THE WINES WINES WINES AND SECURETY SEALED.

 MANIFACTURED S.LT FENCE STSTEM WITH INTEGRAL POSITS MAY BE USED.

 ST SPACING SALL NOT EXCEED B FEET.

 THERMONISM SHALL BE ENCAVATED APPROXIMATELY 4 INCHES WIDE AND 4 INCHES DEEP ALONG THE LINE OF POSITS AND UP

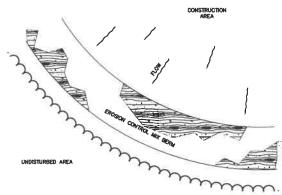
 THERMONISM SHALL BE ENCAVATED APPROXIMATELY 4 INCHES WIDE AND 4 INCHES DEEP ALONG THE LINE OF POSITS AND UP
- A TRENCH SMALL BE EXCAVATED APPROXIMATELY 4 NOVES WER AND 4 NOVES DEEP ALONG THE LINE OF POSTS AND UP
 GRADERT FROM THE BARREET.
 THE STANDARD STRENGTH OF FLITER FABRIC SHALL BE STAFLED OR WRED TO THE POST, AND 8 INCHES OF THE FABRIC SHALL BE
 EXTRIDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE,
 THE TRENCH SHALL BE BACKFILLED AND THE SOLL COMPACTED OVER THE FLITER FABRIC.
 SLICEN METHOD USES AN IMPLEMENT TOWED BEHND A TRACTOR TO "PLOY" OR SLICE THE SLIT FERCE MATERIAL INTO THE SOLL
 BE SLICING BHOOD WISHAS AN IMPLEMENT TOWED BEHND A TRACTOR TO "PLOY" OR SLICE THE SLIT FERCE MATERIAL INTO THE SOLL
 BE SLICING BHOOD WISHAS AND INSOLPHING THE SOLL OPERATED TO SEPACES THE SOLL, MAINTAINING THE SOLL SPROTLE
 AND SCHOOL STALL BE INSTALLED WITH "SURES" OR "L-HOOKS" TO REDUCE THE DETERMINATION THE SOLL SPROTLE
 AND THE STANDARD SHALL BE INSTALLED WITH "SURES" OR "L-HOOKS" TO REDUCE THE DRAWAGE AREA THAT ANY SEGMENT WILL
 BEGINNING AND CHARLED WITH "SURES" OR "L-HOOKS" TO REDUCE THE DRAWAGE AREA THAT ANY SEGMENT WILL
 BEGINNING.

- INFORMS.

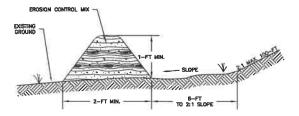
 THE ENDS OF THE FENCE SHALL BE TURNED UPHILL
 SILT FENCES PLACED AT THE TOC OF A SLOPE SHALL BE SET AT LEAST 6 FEET FROM THE TOE M ALLOW SPACE FOR SHALLOW
 PROMOR AND TO ALLOW FOR MAINTENANCE ACCESS WITHOUT DISTURBING THE SLOPE.
 SILT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEPUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREAS HAVE
 BEEN PERMANENTLY STRBULZED.

SILTATION CONTROL FENCE DETAIL

NOT TO SCALE



EROSION CONTROL MIX BERM CROSS-SECTION



EROSION CONTROL MIX BERM CROSS-SECTION

NITH MANCE RECUREMENTS:

ENDSON CONTROL MIX BERMS SHOULD BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROCONCED RAINFALL.

ENDSON CONTROL MIX BERMS SHOULD BE REPAIRED IMMEDIATELY IF THERE ARE ANY SIGNS OF EROSON OR SEDMENTATION BELOW THEN.

- or sedimentation below them.

 If there are scass of breaching of the Barrier, or impounding of large volumes of water behad them, the erosion control was been should be replaced with other measures to intercept and trap sediment (such as a diversion begon directing runger to a divendent trap or
- BASIN). SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. SEDIMENT DEPOSITS MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE THRO (1/3) OF THE HEIGHT OF THE BARGER.
- PEDIATI OF THE BANGER.

 BROSEN CONTROL MIX BERMS SHOULD BE RESHAPED OR REAPPLED AS NEEDED.

 ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE BARRIER IS NO LONGER REQUIRED SHOULD BE DRESSED TO CONFORM TO THE EMSTING GRADE, PREPARED AND SEZIED.

WOOD AND BARK CHIPS, GROUND CONSTRUCTION DEBRIS OR REPROCESSED WOOD PRODUCTS WILL NOT BE ACCEPTABLE AS THE ORGANIC COMPONENT OF THE MIX.

COMPOSITION OF THE EROSION CONTROL MIX SHOULD BE AS FOLLOWS:

 EROSION CONTROL MIX SHALL BE A WELL CRADED MIXTURE OF PARTICLE SIZES FREE OF REPUSE,
 PHYSICAL CONTAMINATIS, MATERIAL TOXIC TO PLANT GROWTH AND MAY NOT CONTAIN ROCKS LESS THAN 4-NICHES IN DIAMETER;

- B. ORGANIC MATTER = 25-65% DRY WEIGHT BASIS
- C. PARTICLES PASSING BY WEIGHT:

SCREEN: PASSING BY WEIGHT: 3-INCH 100% 1-INCH 90-100% 5/4-INCH 70-100% 1/4-INCH 30-75%

- E THE ORGANIC PORTION NEEDS TO BE EIRROUS AND FLONCATED
- F. THE MIX SHOULD CONTAIN NO SILTS, CLAYS OR FINE SANDS.
- C. SOLUBLE SALTS CONTENT < 4.0 mmhos/cm
- H. pH OF THE MIX SHOULD BE BETWEEN 5.0 AND 8.0
- 5. THE BARRIER MUST BE PLACED ALONG A RELATIVELY LEVEL CONTOUR.

 5. IT MAY BE NECESSARY TO CUIT TALL GRASSES AND WOODY VEGETATION TO AVOID CREATING VOIDS AND BRODGES IN THE BARRIER THAT WOULD MANBLE FREST ON WASH UNDER THE BARRIER THROUGH THE GRASS BLADES OR PLANT STEMS.

 THE BARRIER MUST BE A MINIMUM OF 12-INCHES TALL AS MEASURED ON THE UPHILL SIDE OF THE BARRIER.

 8. THE BARRIER MUST BE A MINIMUM OF 2-FT WIDE.

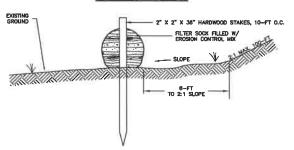
EROSION CONTROL MIX BERM DETAIL NOT TO SCALE



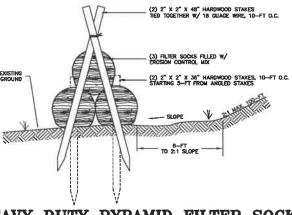
CIVIL ENGINEERS



FILTER SOCK CONNECTION PLAN VIEW



FILTER SOCK CROSS-SECTION



HEAVY DUTY PYRAMID FILTER SOCK CROSS-SECTION

- CONTINUOUS CONTAINED BERN (FILTER SOCK ALTERNATIVE):

 1. AN ALTERNATIVE PRODUCT, THE CONTINUOUS CONTAINED BERN (OR "FILTER SOCK") CAN BE AN EFFECTIVE SEDIMENT BARRIER AS IT ADOS CONTAINED AT ABULTY TO A BERN OF EROSION CONTROL MIX.

 2. IN THE EVENT THAT USE OF CONTINUOUS CONTAINED BERN IS DESIRED, THE PRODUCT SELECTED SHOULD BE REVEWED AND APPROVED BY THE DESIGN ENGINEER.

 3. INSTALLATION OF CONTINUOUS CONTAINED BERNS SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE MANUFACTURED.

<u>Maintenance requirements:</u> 1. Filter Sock maintenance shall follow the same schedule as erosion control MIX Berms.

CONSTRUCTION SPECIFICATIONS:

1. COMPOSITION OF THE EROSION CONTROL MIX SHALL BITHER BE THE SAME AS EROSION CONTROL MIX BERM MATERIAL OR AS SPECIFIED BY THE FILTER SOCK MANUFACTURER.

2. THE BARRIER MUST BE PLACED ALONG A RELATIVELY LEVEL CONTOUR.

3. IT MAY BE INCESSARY TO CUT ITALL GRASSES AND WOODY VEGETATION TO AVOID CREATING VOIDS AND BROCKS IN THE BARRIER THAT WOULD ENABLE FINES TO WASH UNDER THE BARRIER THROUGH THE GRASS BLADES OR PLANT STEMS.

4. FILTER SOCK DIAMETER (HEIGHT) SHALL BE PER THE MANUFACTURER RECOMMENDATION FOR THE AREA OF INSTALLATION.

CONTINUOUS CONTAINED BERM "FILTER SOCK" DETAIL

NOT TO SCALE

TEMPORARY VEGETATION:

- SPECIFICATIONS. SIE PREPARATION: 1. INSTALL NEEDED EROSION AND SEDIMENT CONTROL MEASURES SUCH AS SILTATION BARRIERS, DIVERSIONS, AND

- INSTALL NEEDED EROSION AND SEDIMENT CURTIFICA MEASURES SOURCE STATES.

 GRADE AS NEEDED FOR THE ACCESS OF EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH
 APPLICATION, AND MULCH ANCHORING.

 RUNOFF SHALL BE DIVERTED FROM THE SEEDBED AREA.

 ON SLOPE'S 1-1 OR STEEPER, THE FINAL PREPARATION SHALL INCLUDE CREATING HORIZONTAL GROOVES
 PERFENDICULAR O THE DIRECTION OF THE SLOPE TO CATCH SEED AND REDUCE RUNOFF.

- SEDIED PERPANATION:

 SEDIED PERPANATION:

 UNITED BY SHALL BE REMOVED SO AS NOT TO INTERFERE WITH THE SEEDING AREA.

 WHERE THE SOIL HAS BEEN COMPACTED BY CONSTRUCTION OPERATIONS, LOOSEN SOIL TO A DEPTH OF 2

 HIGHES BEFORE APPLYING FERTILIZER. HUE AND SEED.

 SIF APPLICABLE, FERTILIZER AND ORGANIC SOIL AMENIMENTS SHALL BE APPLIED DURING THE GROWING
- F APPLIANCE, FAMILIES AND A STATE OF THE APPLIED AT THE FORMATION OF THE APPLIANCE OF THE APPLIANCE AND FERTILIZER ACCORDING TO SOIL ITEST RECOMMENDATIONS. FERTILIZER SMALL BE RESTRICTED TO LINE, WOOD ASH OR LOW PHOSPHATE AND S.OW ROLEASE MITROGEN VAREITES, LINESS AS SOIL ITEST WARRANTS DHEAVERS. IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL FERTILIZER AND LIMESTONE MAY BE APPLIED AT THE FOLLOWING RATES:

LIMESTONE APPLICATION RATE = 3 TONS/ACRE (138 LB./1,000-SF)*
*EQUIVALENT TO 50% CALCIUM PLUS MAGNESIUM OXIDE

SEEDING: 1. APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL CULTIPACKER TYPE SEEDER OR HYDRO SEEDER (SLURRY INCLIDING SEED AND FERRILIZER). NORMAL SEEDING DEPTH IS FROM 1/4 TO 1/2 INCH. HYDROSEEDING THAT INCLIDES MULCH MAY BE LIFT ON SOIL SURFACE. SEEDING RATES MUST BE INCREASED BY 10% WHEN HYDROSEEDING SHALL TYPICALLY OCCUR PRIOR TO SEPTEMBER 15. 2. TEMPORARY SEED SHALL TYPICALLY OCCUR PRIOR TO SEPTEMBER 15. 3. AREAS SEEDED BETWEEN MAY 15 AND AUGUST 15 SHALL BE COVERED WITH HAY OR STRAW MULCH, ACCORDING TO HE TEMPORARY AND PERMANENT MULCHING PRACTICE DESCRIBED IN THE MISSIN, VOL. 3. 4. VECTARED GROWTH COVERING AT LEAST 63% OF THE DISTURBED AREA SHALL BE GAVENED FROM TO OCTOBER 15. IT THIS CONDITION IS NOT ACHIEVED, IMPLEMENT OTHER TEMPORARY STABILIZATION MEASURES FOR OVER MATER PROTECTION.

- AINTENANCE REQUIREMENTS:

 1. TEMPORARY SEEDING SHALL BE INSPECTED WEEKLY AFTER ANY RAINFALL EXCEEDING 1/2 INCH IN 24 HOURS ON ACTIVE CONSTRUCTION SITES. TEMPORARY SEEDING SHALL BE INSPECTED JUST PRIOR TO SEPTEMBER 15, TO ASCERTAIN WHETHER ADDITIONAL SEEDING IS REQUIRED TO PROVIDE STABILIZATION OVER THE WINTER
- PERIOD.

 BASED ON INSPECTION, AREAS SHALL BE RESEDED TO ACHIEVE FULL STABILIZATION OF EXPOSED SOILS. IF IT IS TOO LATE IN THE PLANTING SEASON TO APPLY ADDITIONAL SEED, THEN OTHER TEMPORARY STABILIZATION MEASURES SHALL BE IMPLIENTED.

 IF ANY EMDENCE OF EROSION OR SEDIMENTATION IS APPARENT, REPAIRS SHALL BE MADE AND AREAS SHALL BE RESEEDED, WITH OTHER TEMPORARY MEASURES (I.E. MULCH, ETC.) USED TO PROVIDE EROSION PROTECTION DURING THE PERIOD OF VECTATION ESTABLISHMENT.

TEMPORARY EROSION DETAILS TAX MAP 141, LOT 29 104 PICKERING ROAD ROCHESTER, NH PREPARED FOR: JAEGER USA. INC.

JUNE 2017

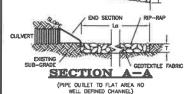
FILE NO. 128 PLAN NO. C-2677-1 DWG. NO. 13079/SP-3 SECTION A-A

(PIPE OUTLET TO WELL DEFINED CHANNEL)

RIP-RAP GRADATION



APRON DIMENSION TABLE OUTLET PROT. | PIPE OUTLET | Wo | W | Lo | T | d50 | OUTLET PROW | D45N | 12" CPP | 3" | 15" | 12" | 9" | 3"



NOTES:

ALL PIPE CULVERTS SHALL HAVE END SECTIONS OR HEADWALLS. END SECTION MATERIAL AND MANUFACTURER SHALL MATCH
THAT OF THE PIPE CULVERT.

THE LARGEST RIP-RAP SIZE DETERMINED DURING HYDROLOGIC ANALYSIS HAS BEEN USED FOR ALL OUTLETS FOR ECONOMY AND
SMIPLICITY.

APRON LENGTHS, WIDTHS AND THICKNESSES HAVE BEEN ROUNDED UP TO WHOLE NUMBERS FOR EASE OF CONSTRUCTION.

<u>Construction specifications:</u>
1. Prepare the sub-grade for the filter material, geotextile fabric, and rip-rap to the grades shown on the

GEDTEXTILE FABRIC

- EREPARE THE SUB-ORADE FOR THE FILTER MAILEDAY, USUFFICIAL TRADES.

 MINIMUM 5° SAND/GRAVEL BEDDING OR GEOTEXTILE FABRIC REQUIRED UNDER ALL ROCK RIP-RAP.

 HIS ROCK OR GRAVEL USED FOR FILTER OR RIP-RAP SHALL CONFORM TO THE SPECIFED CRADATION.

 HE ROCK OR GRAVEL USED FOR FILTER OR RIP-RAP SHALL CONFORM TO THE SPECIFED CRADATION.

 REACH THE FABRIC SHALL BE PERFARED BY PLACING A PIECE OF FABRIC OVER THE DAMAGED AVEA OR BY COMPLETE REPLACEMENT OF THE FABRIC SHALL BE REPARADE BY PLACEMENT OF PIECE OF FABRIC SHALL BE A REPLACEMENT OF THE FABRIC SHALL BE REPARADE OF PLACE OF FABRIC SHALL BE A REPLACEMENT OF THE FABRIC SHALL BE A PIECE OF FABRIC MINIMUM OF 12 INCHES.

 MINIMUM OF 12 INCHES.

 STORE FOR THE REPRAP MAY BE PLACED BY EQUIPMENT AND SHALL BE CONSTRUCTED TO THE FULL LAYER THICKNESS IN ONE OPERATION AND IN SUCH A MANNER AS TO PREVENT SEGREGATION OF THE STONE SIZES.

 6. RIP-RAP SIZE CHOSEN FOR THE WORST CASE OF ALL OUTLETS. ALL RIP-RAP USED FOR PIPE OUTLET PROTECTION WILL HAVE THE SAME GRADATION AND THICKNESS.

MAINTENANCE NOTES:

OUTLETS SHALL BE INSPECTED AND CLEANED ANNUALLY AND AFTER ANY MAJOR STORM EVENT. ANY EROSION OR DAMAGE TO THE REP-RAP SHALL BE REPAIRED IMMEDIATELY.

THE CHARNEL IMMEDIATELY DOWNSTREAM FROM COUNTEY SHOULD BE CHECKED TO SEE THAT NO EROSION IS OCCURRING. THE CHARNEL IMMEDIATELY DOWNSTREAM FROM LEAR OF GESTRUCTIONS SUCH AS FALLEN TREES, DEBRIS, AND SEDIMENT THAT COULD CHARGE FLOW PATERNS AND COUNTY THAT THAT AND ADDITIONAL DAMAGE TO THE COUNTY THE DUTLET PROTECTION APRON.

PIPE OUTLET PROTECTION DETAIL

DUST CONTROL PRACTICES:

- APPLY DUST CONTROL MEASURES AS NECESSARY TO MAINTAIN CONTROL OF DUST ON SITE. WATER APPLICATION:
- IER APPLICATION: MOSTEN EXPOSED SOIL SURFACES PERIODICALLY WITH ADEQUATE WATER TO CONTROL DUST. AVIDE EXCESSIVE APPLICATION OF WATER THAT WOULD RESULT IN MOBILIZING SEDIMENT AND SUBSEQUENT DEPOSITION IN NATURAL WATERBOOKS.
- "DEPOSITION IN NATURAL WATERBOOKES.

 SIONE APPLICATION:
 A) COVER SURFACE WITH CRUSHED OR COARSE GRAVEL.
 B) IN AREAS NEAR WATERWAYS USE ONLY CHEMICALLY STABILIZED OR WASHED AGGREGATE.
 REFER TO "NEW HAMPSHIRE STORMWATER MANAGEMENT MANUAL, VOLUME 3 CONSTRUCTION PHASE EROSION AND SEDIMENT CONTROLS, DECEMBER 2008" FOR OTHER ALLOWABLE DUST CONTROL PRACTICES (I.E. COMMERCIAL TACKFIERS OR CHEMICAL TREATMENTS SUCH AS CALCIUM CHLORIDE, ETC.)

STOCKPILE PRACTICES:

- LOCATE STOCKPLES A MINIMUM OF 50-FT. AWAY FROM CONCENTRATED FLOWS OF STORMWATER, DRAINAGE COURSES OR INLETS.

 PROTECT ALL STOOKPLES FROM STORMMATER RUN-ON USING TEMPORARY PERIMETER MEASURES SUCH AS DIVERSIONS, BERNIS, SANDEAGS OR OTHER APPROVED PRACTICES.

 STOCKPLES SHALL BE SURROUNDED BY SEDMENT BEARBIERS AS DESCRIBED ON THE PLANS AND IN NHSMM VOL. 3. TO PREVENT MIGRATION OF MATERIAL BEYOND THE IMMEDIATE CONFINES OF THE STOCKPLE.

 MIPLIENT WHO EROSON CONTROL PRACTICES AS APPROPRIATE ON ALL STOCKPILED MATERIAL.

 PLACE BAGGED MATERIALS ON PALLETS OR UNDERCOVER.

PROTECTION OF INACTIVE STOCKPILES.

8. INACTIVE SIGN STOCKPILES THAT BE COVERED WITH ANCHORED TARPS OR PROTECTED WITH SOIL STABILIZATION MEASURES (TEMPORARY SEED AND MULCH OR OTHER TEMPORARY STABILIZATION PRACTICE) AND TEMPORARY PERMETER SEDMENT BARRERS (I.E. SLT FENCE, ETC.) AT ALL TIMES.

1. INACTIVE STOCKPILES OF CONCRETE RUBBLE, ASPHALT CONCRETE RUBBLE, ADDRESSATE MATERIALS, AND SMILAR MATERIALS SHALL BE PROTECTED WITH TEMPORARY SEDMENT PERMETER BARRERS (I.E. SLIT FENCE, ETC.) AT ALL TIMES.

1. PIT HE MATERIALS SHALL BE PROTECTED WITH TEMPORARY SEDMENT PERMETER SHARERS (I.E. SLIT FENCE, ETC.) AT ALL TIMES.

FILE NO. 128

F.B. NO.

PLAN NO. C-2677-1 DWG. NO. 13079/SP-3

NOTECTION OF ACTIVE STOCKPILES.

ALL STOCKPILES SHALL BE SUPROLINDED WITH TEMPORARY LINEAR SEDMENT BARRIERS (I.E. SLT FENCE, ETC.)
PRIOR TO THE ONIST OF PRECEDITATION. PERIMETER BARRIERS SHALL BE MAINTAINED AT ALL TIMES, AND
ADJUSTED AS NEEDED TO ACCOMMODATE THE DELIVERY AND REMOVAL OF MATERIAL FROM THE STOCKPILE.
THE INTEGRITY OF THE BARRIER SHALL BE INSPECTED AT THE ZIM OF EACH WORKING DAY.
WHEN A STORM IS PREDICTED, STOCKPILES SHALL BE PROTECTED WITH AN AMERICANED PROTECTIVE COVERING.

PERMANENT VEGETATION:

SITE PREPARATION:

1. INSTALL NEEDED EROSION AND SEDIMENT CONTROL MEASURES SUCH AS SILTATION BARRIERS, DIVERSIONS, AND SEDIMENT TRAPS.

2. GRADE AS NEEDED FOR THE ACCESS OF EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING.

3. RUNGEF SHALL BE DIVERTED FROM THE SEEDBED AREA.

4. ON SLOPES 411 OR SIEDPER. THE FIRMAL PREPARATION SHALL INCLUDE CREATING HORIZONTAL GROOVES PERPENDICULAR TO THE DIRECTION OF THE SLOPE TO CATCH SEED AND REDUCE RUNGEY.

A SITE IS DEBELD.

SERBED PREPARATION:

1. WORK LIME AND FREIDLIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 NCHES WITH A DISC, SPRING TOOTH HARROW OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OPERATION SHALL BE ON THE CENERAL CONTOUR CONTINUE TILLAGE LINTLA HARROWING OPERATION SHALL BE ON THE CENERAL CONTOUR CONTINUE TILLAGE LINTLAGE HARROWING OPERATION SHALL BE ON LINE OF THE SEDIEBOUR MERCEVER FEASIBLE BUT CARY AND SLIT SOILS SHALL BE ROLLED TO FIRM THE SEDDED WHEREVER FEASIBLE BUT CARY AND SLIT SOILS SHALL BE ROLLED TO FIRM THE SEDDED WHEREVER FEASIBLE BUT CARY AND SLIT SOILS SHALL STONES ZINCHES OR LARGER IN ANY DIMENSION. REMOVE ALL OTHER DEBISS, SUICH AS WIRE CASEL, TIER FRONT, CONSCIUNCE COOS, LIMPS, TRASH ON OTHER LINESUTABLE MATERIAL.

3. INSPECT SECREDIAL STEPPING SECONS, FIRMS THE SOIL COMPACTED; THE NESSEL SECONS SECONS

IF APPLICABLE, FERRILIZER AND OKGANIC SUIL AMERIMMENTS STRALE DE OFFICIAL OF GROWNS SEASON,
APPLY LIMESTONE AND FERRILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS. FERTILIZER
SHALL BE RESTRICTED TO LIME, WOOD ASH OR LOW PHOSPHATE AND SLOW RELEASE
NITROGEN VARIETES, UNLESS A SOIL TEST WARRANTS OTHERWISE, IF SOIL TESTING IS NOT
FEASIBLE ON SMALL OR VARABLE STEES, OR WHÉRE THING IS CRITICAL FERTILIZER AND
LIMESTONE MAY BE APPLIED AT THE FOLLOWING RATES:

LIMESTONE APPLICATION RATE == 3 TONS/ACRE (138 LB./1,000-SF)** "EQUIVALENT TO 50% CALCIUM PLUS MAGNESIUM OXDE

USED, THE SEEDBED SHALL BE FIRMED FOLLOWING SEIZING OPERATIONS WITH A KULLEN, VA.

SPRING SEEDING USUALLY, GIVES THE BEST RESULTS FOR ALL SEED MIXES OR WITH LEGUMES,
PERMANENT SEEDING SHALL BE COMPILETED 45 DAYS PRIOR TO PREST KILLING FROST. WHEN
CROWN VETCH IS SEEDBED IN LATE SUMMER AT LEAST 358 OF THE SEED SHALL BE HARD
SEED (USECARFIED). IT SEEDING CANNOT BE DONE WITHIN THE SPECIPIED SEEDING DATES,
MULCH ACCORDING TO THE "EMPORARY" AND PERMANENT MULCHINIO" PRACTICE DESCRIBED IN
ALLICH SEEDED BETWEEN MAY 15 AND AUGUST 15 SHALL BE COMPETO WITH HAY OR STRAW
MULCH, ACCORDING TO THE "TEMPORARY AND PERMANENT MULCHINIO" PRACTICE DESCRIBED
IN THE NIFSSA, VOL 3.

5. VEGETATED GROWTH COVERING AT LEAST 55% OF THE DISTURBED AREA SHALL BE ACHIEVED
PRIOR TO COTOSIEN IS. IF THIS CONDITION IN SOOT ACHIEVED, IMPLEMENT OTHER TEMPORARY
STABILIZATION MEASURES FOR OVER WINTER PROTECTION.

HYDROSEEDING:

1. WHEN HYDROSEEDING (HYDRAULIC APPLICATION), PREPARE THE SEEDBED AS SPECIFIED ABOVE OR BY HAND RAKING TO LOOSEN AND SMOOTH THE SOIL AND REMOVE SUFFACE STONES LARGER THAM 2 INCHES IN DIAMETER.

2. SLOPES BUST BE NO STEEPER THAN 2:1 (2 FEET HORIZCONTALLY BY 1 FOOT VERTICALLY.

3. LINE AND FERTILIZER MAY BE APPLIED SINULTANEDUSLY WITH THE SEED. THE USE OF FIBER MUICH ON CRITICAL AREAS IS NOT RECOMMENDED (UNLESS IT IS USED TO HOLD STRAW OR HAY). BETTIED PROTECTION IS CANDED BY USING STRAW MUICH AND HOLDING IT WITH ADDITION OF THE PROTECTION IS CANDED BY USING STRAW MUICH AND HOLDING IT WITH ADDITION OF THE SEED.

- MAINTENANCE GEOLIFICATIONS:

 1. PERMANENT SEEDED AREAS SHALL BE INSPECTED AT LEAST MONTHLY DURING THE COURSE OF CONSTRUCTION. INSPECTION, MAINTENANCE AND CORRECTIVE ACTIONS SHALL CONTINUE UNTIL THE OWNER ASSUMES PERHANENT OPERATION OF THE SITE.

 SEEDED AREAS SHALL BE MOWED AS REQUIRED TO MAINTAIN A HEALTHY STAMD OF VEGETATION, MOWING HEIGHT AND FREQUENCY DEPEND OF TYPE OF GRASS COVER.

 1. BASED ON INSPECTION, AREAS SHALL BE RESEDED TO ACHIEVE FULL STABILIZATION OF EXPOSED SOILS.

 AT A MINIMUM B53C OF THE SOIL SURFACE SHALL BE COVERED BY VEGETATION, BE AND AREAS SHALL BE RESEDED. WITHOUT SHALL BE MADE AND AREAS SHALL BE RESEDED. WITHOUT SHALL BE MADE AND AREAS SHALL BE RESEDED. WITHOUT SHALL BE MADE AND AREAS SHALL BE RESECED. WHITH OTHER TEMPORARY MEASURES (I.E. MULCH, ETC.) AND AREAS SHALL BE RESEEDED, WITH OTHER TEMPORARY MEASURES (I.E. MULCH, ETC.) USED TO PROVIDE EROSION PROTECTION DURING THE PERIOD OF VEGETATION ESTABLISHMEN

PERMANENT VEGETATION SEEDING RECOMMENDATIONS

USE	MIXTURE	SPECIES	LBS./ACRE	LBS./ 1,000~SF	
STEEP CUTS AND FILLS, BORROW AND DISPOSAL AREAS	LIS. BORROW OD DISPOSAL REPORT OF TOTAL REPORT		20 20 2 42	0.45 0.45 0.05 0.95 0.45 0.45 0.05 0.95 0.45 0.45 0.45 0.95	
WATERWAYS, EMERGENCY SPILLWAYS, AND OTHER CHANNELS WITH FLOWING WATER			2 42 20		
LICHTLY USED A TALL FESCUE CREPING RED FESC COLD STEAR, AND LOW RED FESC CREPING RED FESC C		CREEPING RED FESCUE REDTOP			
PLAY AREAS AND ATHLETIC FIELDS (TOPSOIL ESSENTIAL FOR GOOD TURF)	F	CREEPING RED FESCUE KENTUCKY BLUEGRASS TOTAL	50 50 100	1.15 1.15 2.30	

NEW HAMPSHIRE STORMWATER MANAGEMENT MANUAL, VOLUME 3, TABLES 4-2 AND 4-3
MINNICK, E.L. AND H.T. MARSHALL, (AUGUST 1992)



CONSTRUCTION PHASING:

STABILIZATION:
A SITE IS DEEDED STABILIZED WHEN IT IS IN A CONDITION IN WHICH THE SOIL ON SITE WILL NOT EXPERIENCE ACCELERATED OR UNNATURAL EROSION UNDER THE CONDITIONS OF A 10-YEAR STORM EVENT, SUCH AS BUT NOT LIMITED TO:

CONDITIONS OF A THEAT WILL NOT BE PAVED.

3) A MIRRAM OF STATE WILL NOT BE PAVED.

3) A MIRRAM OF STATE OF A WILL NOT BE PAVED.

4) A MIRRAM OF STATE OF A WILL NOT BE STATED COMPANY OF A CERTIFIED COMPOST BLANKET HAS BEEN INSTALLED, OF:

5) EROSON CONTROL BLANKET HAVE BEEN INSTALLED.

c) EROSON CONTROL BLANKETS HAVE BEEN INSTALLED.
A) IN AREAS TO BE PAYED.
DIASE COURSE GRAVELS HAVE BEEN INSTALLED.
DIASE COURSE GRAVELS HAVE BEEN INSTALLED.
ACK AREAS OF EMPED OF DISTURBED SOIL SHALL BE TEMPORARILY STABILIZED AS ACK AREAS OF EMPED OF DISTURBED SOIL SHALL BE TEMPORARILY STABILIZED AS ACK AREAS OF EMPED OF THE DISTURBED OF THE TIME IS SPECIFIED BY LOCAL AUTHORIES, THE CONSTRUCTION SEQUENCE APPROVED AS PART OF THE ISSUED PERMIT OR AN INDEPENDENT MONITOR.

INDEPENDENT MONITOR

PERMANENT TABLIZATION:

ALL AREAS OF EXPOSED OR DISTURBED SOIL SHALL BE PERMANENTLY STABILIZED

AS SOON AS PRACTICABLE BUT NO LATER THAN 3 DAYS FOLLOWING FINAL GRADING.

AS SOUND AS PRACTICABLE BUT NO LATER THAN 3 DAYS FOLLOWING FINAL GRADING
MAXIMUM AREA OF DISTURBANCE:
THE SMALLEST PRACTICAL AREA SHALL BE DISTURBED DURING CONSTRUCTION, BUT
IN NO CASE EXCEED 5 ACRES AT ANY ONE TIME BEFORE DISTURBED AREA ARE
STABILIZED.
ONLY DISTURBED CLEAR AREA OF CAMES.

THE SMALLEST PRACTICAL AREA SHALL BE DISTURBED DURING CONSTRUCTION, BUT IN NO CASE EXCEDE D ACRES AT ANY ONE TIME BEFORE DISTURBED AREA ARE STABULZDURS, CLEAR, OR CRADE AREAS NECTOR BE DISTURBED.

5. STABULZDURS, CLEAR, OR CRADE AREAS NECTOR BE DISTURBED.

6. ALL GROUND STABUL SHOULD SHALL BE CONSTRUCTION.

A) I TAD GO DITHERWISE DELINEATE AREAS NOT TO BE DISTURBED.

B) EXCLUDE VEHICLES AND CONSTRUCTION EQUIPMENT FROM THESE AREAS TO PRESERVE NATURAL VEGETATION.

1. ALL GRADED OR DISTURBED AREAS INCLUDING SLOPES SHALL BE PROTECTED DURING CLEARING AND CONSTRUCTION IN ACCORDANCE WITH THE APPROVED CRADING AND DEPICTED ON SHEEL C.-S.

ALL GRADED OR DISTURBED AREAS INCLUDING SLOPES SHALL BE PROTECTED DURING CLEARING AND CONSTRUCTION OF SHEEL C.-S.

ALL GRADED OR DISTURBED ON SHEEL C.-S.

ALL GRADED OR DEPICTED ON SHEEL C.-S.

ALL GRADED OR DEPICTED ON SHEEL C.-S.

3. TOPSOIL REQUIRED FOR THE STABLISHEN TO PY CEGTATION SHALL BE STOCKPILED BY THE AMOUNT INCESSARY TO COMPLETE FINSHED GRADING AND BE PROTECTED FROM EROSION.

4. STOCKPILES, BECOME AREAS AND SPOILS SHALL BE STABLIZED AS DESCRIBED FROM EROSION.

5. SLOCKPILES, BECOME BEACHES.

5. SLOCKPILES, BECOME BEACHES.

5. SLOCKPILES, BECOME BEACHES.

5. SLOCKPILES, BECOME BEACHES.

6. AREAS TO BE FILLED SHALL BE CLEARED, GRUBBED AND STRIPPED OF TOPSOIL TO REMOVE THESE, VECTATION, ROOTS AND/OR OTHER RELATED DAMAGE.

6. AREAS TO BE FILLED SHALL BE CLEARED, GRUBBED AND STRIPPED OF TOPSOIL TO REMOVE THESE, VECTATION, ROOTS AND/OR OTHER RELATED DAMAGE.

7. AREAS SHALL BE SCARFIED TO A NINMUM DEPTH OF 3-MALES PRIDE TO SHALL BE CLEARED. STRUBBED FROM EREAL MATERIALS.

7. AREAS SHALL BE SCARFIED TO A NINMUM DEPTH OF 3-MALES PRIDE TO SHALL BE CLEARED. STRUBBED FROM TO SECURITION.

6. AREAS TO BE FILLED SHALL BE CLEARED, GRUBBED AND STRUCTURES, SIE UTILITIES, CONDUITS AND OTHER TREATED COMPACTOR AND STRUCTURES. SIE UTILITIES, CONDUITS AND OTHER TREATED CREATED OF TOPSOIL TO A NINMUM DEPTH OF 3-MALES PRIDE TO SECURICE OR OTHER RELATED DAMAGE.

8. ALL FILLS SHALL BE COMPACTED IN A

IN CENERAL, FILLS SHALL BE COMPACTED IN LAYERS RANGING FROM 6 TO 24 INDICES IN THICKNESS. THE CONTRACTOR SHALL REVIEW THE PROJECT FOR SPECIFIC QUIDANCE.

ANY AND ALL FILL MATERIAL SHALL BE FREE OF BRUSH, RUBBER, ROCKS (LARGER HARL), AND LEFT BEING INSTRUCTION, LOSS, STUMPS, BUILDING HARL 3/4 AND ALL FILL MATERIAL SHALL BE FREE OF BRUSH, RUBBER, ROCKS (LARGER HARL), AND CHEMPER BEING INSTRUCTION, LOSS, STUMPS, BUILDING HARL 3/4 AND CHEMPER BEING HARL 3/4 AND CHEMPER HARL SHALL BE FREE OF BRUSH, LOSS, STUMPS, BUILDING INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY LIFTS.

AND CHEMPER HARL OR SOFT, MUCKY OR HOGHLY COMPRESSIBLE (LE. CLAY, SILT) MATERIALS ARE SUSCEPTIBLE TO ACCELERATED SETTLEMENT AND POTENTIAL ACCELERATED PROSON. WORK IN AREAS OF THESE MATERIALS SHALL BE PERFORMED UNDER THE DIRECTION OF A REMETSIONAL ENGINEER. LOSS, NOT ROLLED ON COMPACTED, OR BLADE SMOOTHED. A BUILDOZER MAY RAN UP AND DOWN THE FILL SLOPE SO THE DOZER TREADS (LOLAT TRACKS) GREATE GROOVES PERFERDIDLIAR TO THE SLOPE. IF THE SOL IS NOT TOO MOST, EXCESSIVE COMPACTED, OR ALL SLOPES SOL HIRS DIRECTION OF MOST PROFESSIVE COMPACTION WILL NOT OCCUR. SEE "SUBFACE" ROUGHESHING". IN THE NI-SMM, VOL.3.

ROLLED OF THE SURFACE OF ALL SLOPES SUBHING THE CORPORATION ESTABLISHMENT, AND PROPORTIAL TO THE SURFACE OF ALL SLOPES SUBHING THE CORPOR TRUCTON. THE SURFACE OF THE LEBENCH OF CUT-FILL SLOPES TO LIMIT SHEET AND RILL BERGATE TO REDUCE THE LEBENCH OF CUT-FILL SLOPES TO LIMIT SHEET AND RILL BERGATE TO REDUCE THE LEBENCH OF CUT-FILL SLOPES TO LIMIT SHEET AND RILL BERGATE TO REDUCE FROM ENTIRE SHEET AND RILL BERGATE TO REDUCE THE LEBENCH OF CUT-FILL SLOPES TO LIMIT SHEET AND RILL BERGATE TO REDUCE OF LEBENCH OF CUT-FILL SLOPES TO LIMIT SHEET AND RILL BERGATE OF REDUCE (PREPERREDLY THE DESION ENGINEER) TO DETERMINE IF

A <u>PROFESSIONAL ENGINEER</u> (PREFERABLY THE DESIGN ENGINEER) TO DETERMINE IF THE PROPOSED DESIGN SHALL BE REVISED TO PROPERLY MANAGE THE CONDITION. THE PROPOSED DESIGN SHALL BE REVISED TO PROPERLY MANAGE THE CONDITION. STABILIZE ALL GRADED AREAS (AS ABOVE), WITH VECTATION, CRUSHED STONE, COMPOST BLANKET, OR OTHER GROUND COKER AS SOON AS GRADING IS COMPLETE OR IF WORK IS INTERRUPTED FOR 21 WORKING DAYS OR MORE. USE MULCH OR OTHER APPROVED METHODS TO STABILIZE AREAS TEMPORARILY WHERE FINAL GRADING MUST BE DELAYED.

ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY FOLLOWING

FINISHED GRADING.
THE PROJECT SHALL BE CONSTRUCTED TO MEET ALL REQUIREMENTS AND INTENT OF
RSA 430:53 AND CHAPTER ARG 3800 RELATIVE TO INVASIVE SPECIES.

ABOVE NOTES EXCERPTED, ADAPTED AND REFERENCED FROM "NEW HAMPSHIRE STORMWATER MANAGEMENT MANUAL, VOLUME 3 CONSTRUCTION PHASE EROSION AND SEDIMENT CONTROLS, DECEMBER 2008" (NHSMM, VOL. 3)

PROJECT SPECIFIC INFILTRATION/RETENTION

IN FILE TO THE CONTRAL CONSTRUCTION DALESME NOTE PRICE TO COMMENCING CONSTRUCTION IN ACCORDANCE WITH THE FOLLOWING PHASING. THE "CRUENCE CONSTRUCTION IN ACCORDANCE WITH THE FOLLOWING PHASING," NOTES APPLY TO THE OVERALL CONSTRUCTION AND SHALL BE ADMERED TO.

INSTALL ALL TEMPORARY SEGMENT CONTROL BRASINGS (LE. SILT FENCE, EROSION CONTROL MIX BERM, STOME CHECK DAMS, ETC.) AROUND THE COUTER PREMIETER OF THE CONSTRUCTION SITE AS DEPICTED ON SHEET C.—3, PRICE TO EXACT HOMING OPERATIONS.

INSTALL ORANGE SNOW FROME AROUND THE PEREMITER OF THE INFILTATION BRASINS AND THE PENCE SHALL REMAIN IN PLACE UNTIL CONSTRUCTION OF CLEAR, GROUP AND STIP THE STIE. STILLINGS, BRUSH AND OTHER GROAMIC WASTE SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH STATE AND LOCAL REQULATIONS.

STOCKPILE STRIPPED TOPSOIL AND CUT MATERIAL TO BE REUSED ON SITE IN AN APPROPRIATE LOCATION IN ACCORDANCE WITH THE "SOIL STOCKPILE STRIPPED TOPSOIL AND CUT MATERIAL TO BE REUSED ON SITE IN AN APPROPRIATE LOCATION IN ACCORDANCE WITH THE "SOIL STOCKPILE STRIPPED TOPSOIL AND CUT MATERIAL TO BE REUSED ON SITE IN AN APPROPRIATE LOCATION IN ACCORDANCE WITH THE "SOIL STOCKPILE PRACTICES." AMAITANT THE STOCKPILES AS DIRECTED IN THE "SOIL STOCKPILE PRACTICES." MAINTAIN THE STOCKPILES AS DIRECTED IN THE "SOIL STOCKPILE PRACTICES."

PERFORM THE NECESSARY CUT'S AND PLLY TO CONSTRUCT THE INFILITATION/RETENTION BASIN DETAILS SHOWN ON A SHEET L.—4. AND IN THE INFILITATION/RETENTION BASIN DETAILS SHOWN ON A SHEET L.—5.

INFILITRATION/RETENTION BASIN AS DEPICIED ON SHEET C=4, AND IN ACCORDANCE WITH THE INFILITRATION/RETENTION BASIN DETAILS SHOWN ON SHEET C=5.

CONSTRUCT GRASS TREATMENT SWALE AND SEDIMENT FOREBAY AS SHOWN ON SHEET C=5, AND C-4. INFILING SHOWN OF THE SHOWN ON THE SHOWN ON SHEET C=5.

CONSTRUCT THE GRAVEL WETLANDS BASIN, SEDIMENT FOREBAY AND OUTLET PROTECTION. LOAM SEED AND MILLOH THE SDE SLOPES OF THE BASIN AS DIRECTED IN THE INFILITRATION BASIN DETAILS.

9. ALL DITCHES/SWALES/AND BASINS SHALL BE STABILIZED PROR TO DIRECTION GRAVED SHAPE SHALL BE STABILIZED PROR TO THE INFIDIT SHALL SHAPE SHALL BE STABILIZED PROR TO THE INFIDIT SHAPE SHAP

THE PARKING AREAS SHALL BE STABILIZED (CONSTRUCTED TO GRAVEL BASE COURSE) WITHIN 3 DAYS OF ACHIEVING FINISHED SUBGRADE ELEVATIONS.

BASE COURSE, WITHIN 3 DAYS OF ACHEVING FINISHED SUBGRADE ELEVATIONS.

IS. INSTALL PAVENENT SURFACES AS SOON AS POSSIBLE AFTER THE INSTALLATION OF THE GRAVEL BASE AND CRUSHED GRAVEL, IN ORDER TO LIMIT THE SOLE ROSSON AND POLLUTION OF THE GRAVEL MATERIALS WITH GROAN CHERRIALS, IN IN OCKS. SHALL AREAS TO BE PAVED BE LEFT 11.

ALL DISTURBED, AREAS SHALL BE STABILIZED AS SOON AS POSSIBLE. IN NO CASE SHALL ANY DISTURBED AREA BE LEFT UN-STABILIZED TOR LONGER THAN 21 DAYS. IF INCESSARY TEMPORARY STABILIZATION MEASURES AS DISCUSSED IN THE "GRAVERAL CONSTRUCTION PHASING NOTES" AND INTSAM, VOL. 3 SHOULD BE EMPLOYED.

NOTES* AND INISMA, VOL. 3 SHOULD BE EMPLOYED,
MAINTENANCE AND INSPECTION:
B DURING GONSTRUCTION ALL TEMPORARY AND PERMANENT SEDIMENT,
EROSION CONTROL AND STORMWATER MANAGEMENT PRACTICES SHOULD BE
INSPECTED MERCH, APTER EVERY 1/2 INCH OF RANNALL, AND ANNUALLY,
EROSION CONTROL AND STORMWATER MANAGEMENT PRACTICES MEEN I,
EROSION CONTROL AND STORMWATER MANAGEMENT PRACTICES MEEN II
EROSION CONTROL EROSION ER

PRACTICE.

O. ALL DAMAGED TEMPORARY AND PERMANENT SEDIMENT, EROSION CONTROL

AND STORMWATER MANAGEMENT PRACTICES SHOULD BE REPAIRED OR

AND STORMWATER MANAGOMENT PRACTICES SHOULD BE REPARED OR AND STORMWATER MANAGOMENT PRACTICES SHOULD BE REPARED OR STORMWATER MANAGOMENT PRACTICES SHOULD BE REPARED OR STORMWATER SHOULD SHOULD



WINTER STABILIZATION & CONSTRUCTION PRACTICES:

MANTENANCE REQUIREMENTS:

1. MANTENANCE MEASURES SHALL BE PERFORMED THROUGHOUT CONSTRUCTION, INCLUDING OVER THE WINTER PERIOD. AFTER EACH RAINFALL, SHOWSTORM, OR PERIOD OF THAMMIC AND RUNOFF, THE STE CONTRACTOR SHALL CONDUCT INSPECTION OF ALL INSTALLED ENGINE CONTROL PRACTICES AND PERFORM REPAIRS AS NEEDED TO INSURE THEIR CONTROL PUNCTION.

2. FOR THE OWNER OF THE WINTER SEASON, THE CONTRACTOR SHALL CONDUCT AN INSPECTION IN THE SPRING TO ASCENTANT THE CONDITION OF THE VEGETATION AND REPAIR ANY DAMAGED AREAS OR BARE SPOTS AND RESSED AS REQUIRED TO ACHEVE AN ESTABLISHED VEGETATIVE OVER (AT LEAST 85% OF AREA VEGETATED WITH HEALTHY, VICOROUS GROWTH.)

LEAST 85% OF AREA VEGETATED WITH HEALTHY, WIGOROUS GROWTH.)

SECRIFICATIONS.
THE FOLLOWING STABILIZATION TECHNIQUES SHALL BE EMPLOYED DURING THE PERIOD FROM OCTOBER 15 THROUGH MAY 15.

THE AREA OF EMPOSED, UNSTABILIZED SOIL SHALL BE LIMITED TO 1_ACRE AND SHALL BE PROTECTED AGAINST ENDSIGN BY THE METHODS DISCUSSED AND SHALL BE PROTECTED AGAINST ENDSIGN BY THE METHODS DISCUSSED THAN OS PRINCING MELT EVENT.

2. STABILIZATION AS FOLLOWS THAN 15 PLAN SET, PRIOR TO DAYY THAN OF SPRING MELT EVENT.

2. STABILIZATION AS FOLLOWS THAI 15 RHAL OR THAT OTHERWISE WILL EXIST FOR MORE THAN 3 DAYS.

A. ALL PROPOSED VEGETATED AREAS HAVING A SLOPE OF LESS THAN 15% WHICH DO NOT EXHIBIT A MINIMUM 85% VEGETATIVE GROWTH BY OR ARE DISTURBED AFTER OCTOBER 15, SHALL BE SEEDED AND COVERED WITH ANCHORED INSTITUCE, OR 2 INCHES OF EROSON CONTROL MIX (REFER TO HISMM, VOL. 3 FOR SECONDATION OF ROPE OF GREATER THAN 15% WHICH DO NOT EXHIBIT A MINIMUM AS STABLED AND COVERED WITH ANCHORED INSTITUCE, OR 2 INCHES OF EROSON CONTROL MIX (REFER TO HISMM, VOL. 3 FOR SECONDATION OF SECONDATION OF

GLINING 13 STALL NUT EXCEED 2 INCHES IN THICKNESS OR THEY MAY OVERHEAT.

ALL STONE COVERED SLOPES MUST BE CONSTRUCTED AND STABILIZED BY OCTUBER 15.

3. ALL STONE COVERED SLOPES MUST BE CONSTRUCTED AND STABILIZED BY OCTOBER 100. OF ANCHORED HAY MUSCH OR EROSION CONTROL MIX SHALL NOT OCCUR OVER SHOW OF GREATER HIAM I INCH IN DEPTH.

5. ALL MULCH APPLIED DURING WHITER SHALL BE ANCHORED (I.E. MC) WHITEN ANCHORED CONTROL MIX SHALL BE ANCHORED (I.E. MC).

5. WITHIN 24 NOOD CELLULOSS BRACKINGS SHALL BE MULCHED HIM 25 MC ANCHORED (I.E. MC).

6. WITHIN 24 NOODS OF STOCKPHILD SHA MARKEN SHALL BE MULCHED HIM 25 MC ANCHORED WIX MARKEN CONTROL MIX MILLCH SHALL BE RESTRABLISHED PROR TO ANY RAIN OR SHOWALL NO SOL STOCKPHILS SHALL BE RESTRABLISHED PROR TO ANY RAIN OR SHOWALL NO SOL STOCKPHILD WITH MULCH! WITHIN 100-FT OF ANY WEILAND OR OTHER WATER RESOURCE AREA.

SOIL STOCKPILE SHALL BE PLACED (EVEN COVERED WITH MULCH) WITHIN 100-FT OF ANY WELLAND OR OTHER WATER RESOURCE AREA.

7. FROZEN MATERIAL (I.E. FROST LAYER REMOVED DURING WITTER CONSTRUCTION) SHALL BE STOCKPILED SEPARATIELY AND IN A LOCATION AWAY FROM HATY AREA NEEDING PROTECTION. FROZEN MATERIAL SIGNAL STATEMENT OF THE STATEMENT

SEVE.

1. SEDIMENT BARRIERS THAT ARE INSTALLED DIRING FROZED CONDITIONS SHALL CONSTS OF EROSON CONTROL MIX BEIMS, OR CONTINUOUS CONTINUED BEIMS. SILL FENDES AND HAY BALE SHALL NOT BE INSTALLED WHEN FROZEN CONDITIONS PREVENT PROPER EMBEDMENT OF THESE BARRIERS.

PERMANENT EROSION DETAILS TAX MAP 141, LOT 29 104 PICKERING ROAD ROCHESTER, NH PREPARED FOR: JAEGER USA. INC. JUNE 2017