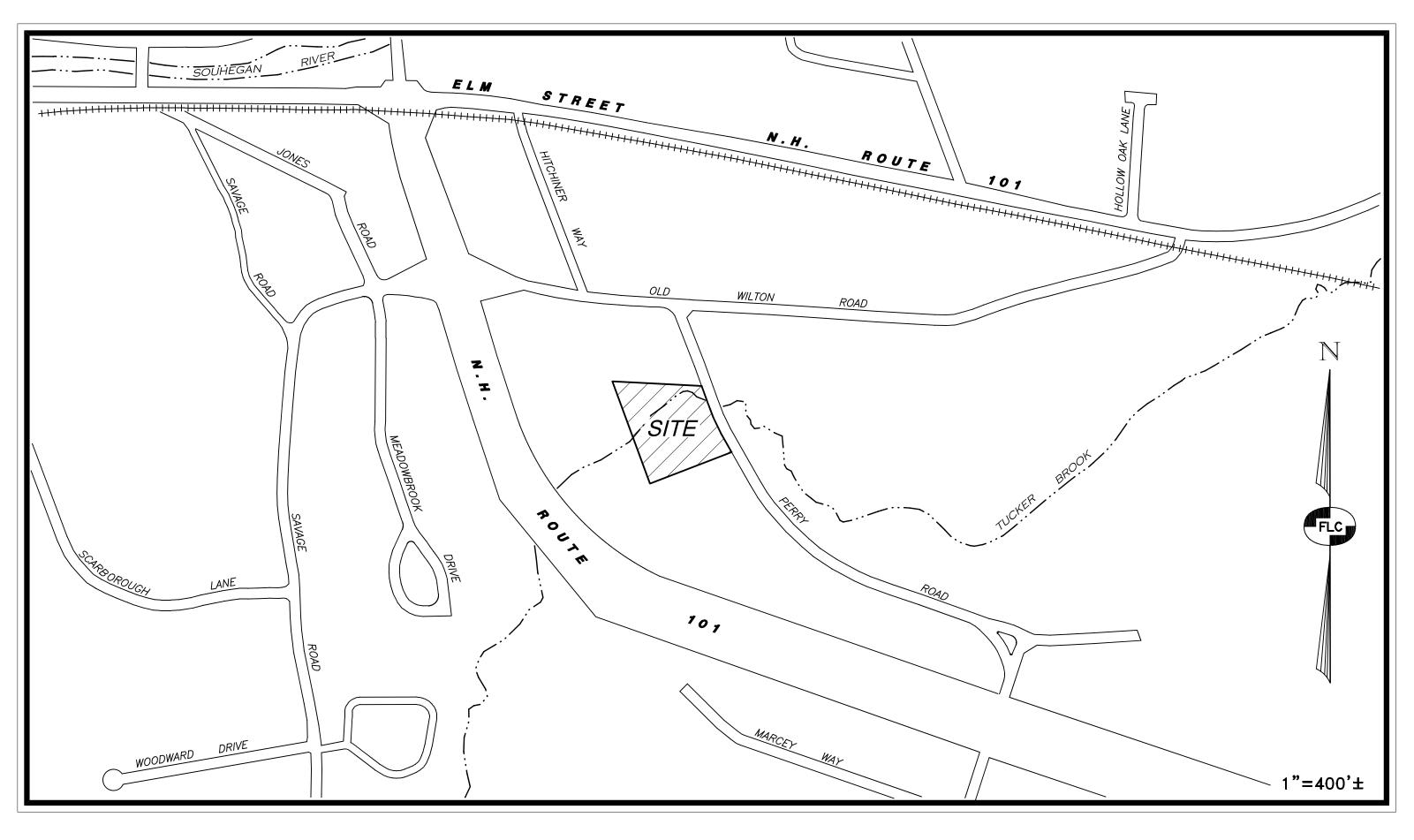
NON-RESIDENTIAL SITE PLAN SET

SELF-STORAGE DEVELOPMENT & BUILDING ADDITION

TAX MAP PARCEL 7-25 - 19 PERRY ROAD

MILFORD, NEW HAMPSHIRE

APRIL 30, 2019 LAST REVISED: MAY 2, 2019



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Signature: ###

PREPARED FOR AND LAND OF: WILLIAM T. MAHAR 19 PERRY ROAD

MILFORD, NH 03055-4308





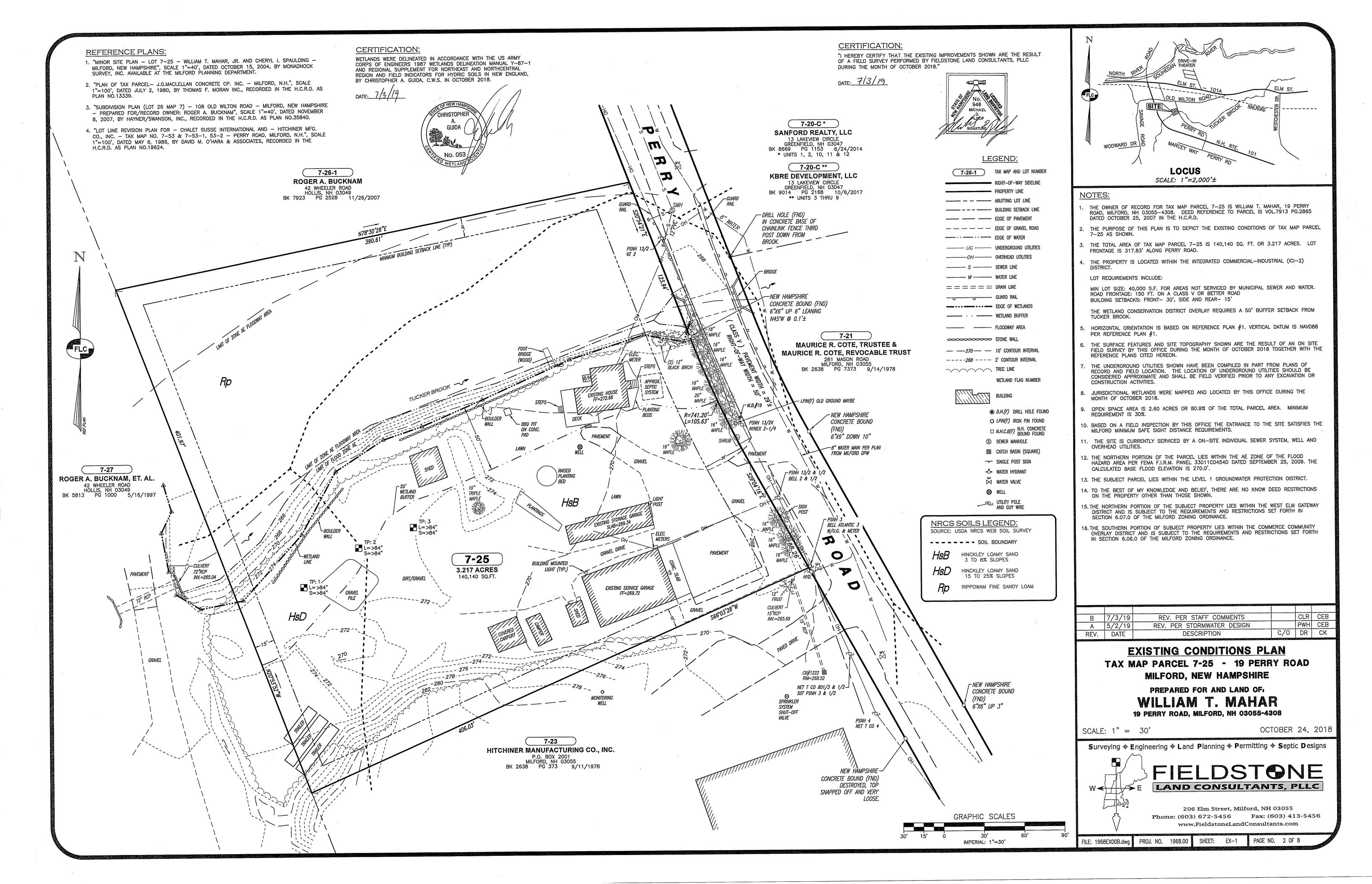
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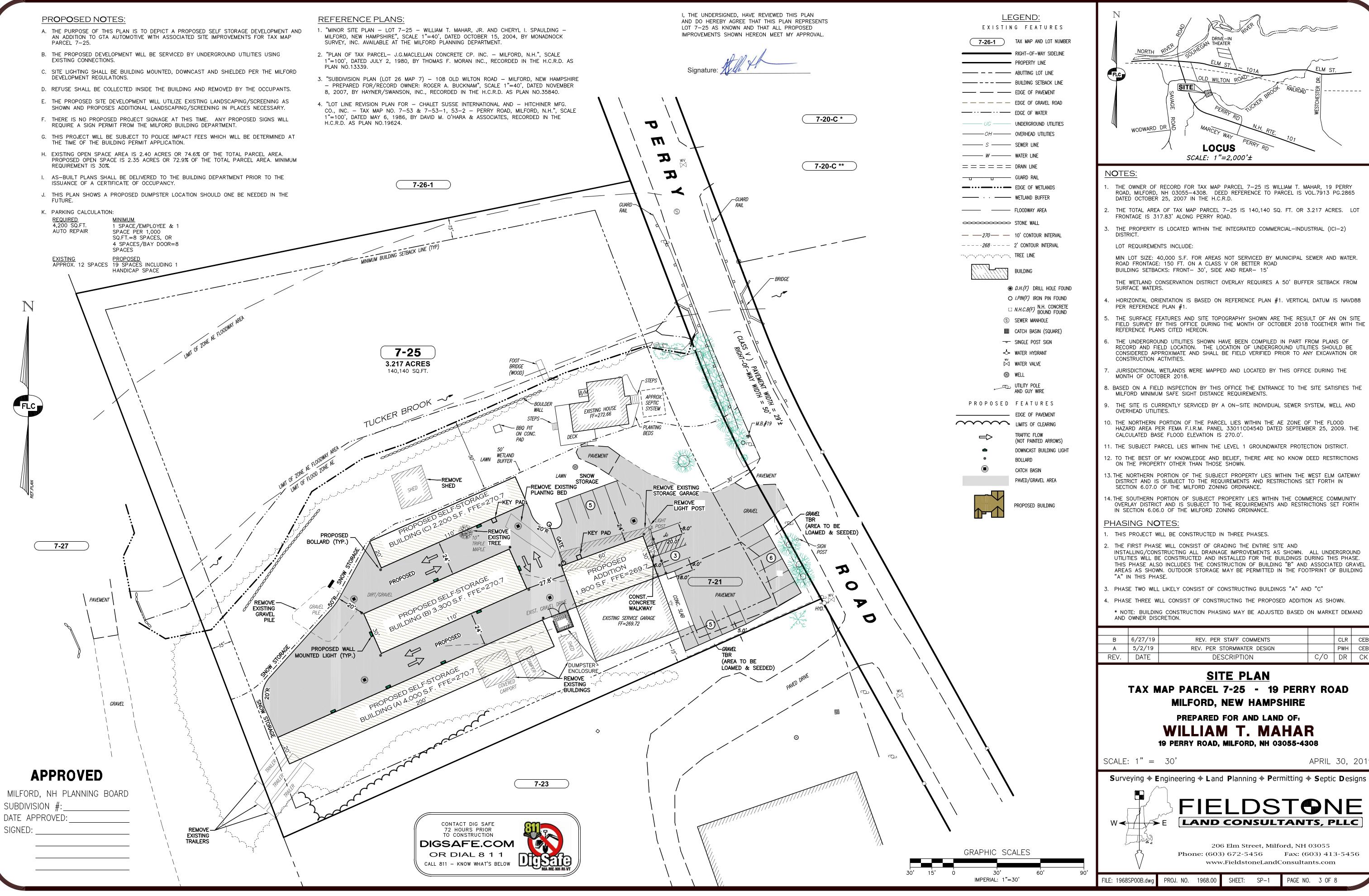
MILFORD, NH PLANNING BOARD
SUBDIVISION #:____

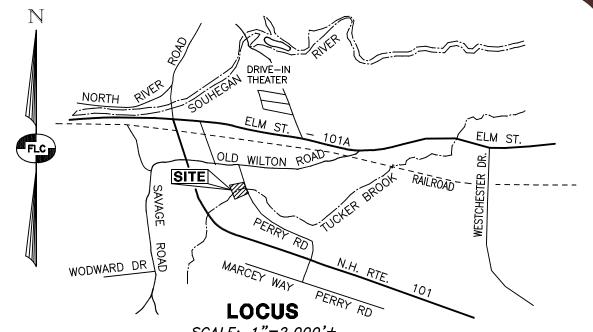
DATE APPROVED:___

SIGNED:____

В	6/20/19	REV. PER STAFF COMMENTS				CLR	CEB
Α	5/2/19	REV. PER STORMWATER DESIGN				PWH	CEB
REV.	DATE	DESCRIPTION			C/0	DR	CK
FILE: 1968CV00B.dwa		PROJ. NO. 1968.00	SHEET: CV-	-1 PAGE N	NO. 1 (OF 8	







- THE OWNER OF RECORD FOR TAX MAP PARCEL 7-25 IS WILLIAM T. MAHAR, 19 PERRY ROAD, MILFORD, NH 03055-4308. DEED REFERENCE TO PARCEL IS VOL.7913 PG.2865
- THE TOTAL AREA OF TAX MAP PARCEL 7-25 IS 140,140 SQ. FT. OR 3.217 ACRES. LOT
- THE PROPERTY IS LOCATED WITHIN THE INTEGRATED COMMERCIAL-INDUSTRIAL (ICI-2)

MIN LOT SIZE: 40,000 S.F. FOR AREAS NOT SERVICED BY MUNICIPAL SEWER AND WATER. ROAD FRONTAGE: 150 FT. ON A CLASS V OR BETTER ROAD BUILDING SETBACKS: FRONT- 30', SIDE AND REAR- 15'

- HORIZONTAL ORIENTATION IS BASED ON REFERENCE PLAN #1. VERTICAL DATUM IS NAVD88
- FIELD SURVEY BY THIS OFFICE DURING THE MONTH OF OCTOBER 2018 TOGETHER WITH THE
- RECORD AND FIELD LOCATION. THE LOCATION OF UNDERGROUND UTILITIES SHOULD BE CONSIDERED APPROXIMATE AND SHALL BE FIELD VERIFIED PRIOR TO ANY EXCAVATION OR
- JURISDICTIONAL WETLANDS WERE MAPPED AND LOCATED BY THIS OFFICE DURING THE
- 8. BASED ON A FIELD INSPECTION BY THIS OFFICE THE ENTRANCE TO THE SITE SATISFIES THE
- THE SITE IS CURRENTLY SERVICED BY A ON-SITE INDIVIDUAL SEWER SYSTEM, WELL AND
- 10. THE NORTHERN PORTION OF THE PARCEL LIES WITHIN THE AE ZONE OF THE FLOOD HAZARD AREA PER FEMA F.I.R.M. PANEL 33011C0454D DATED SEPTEMBER 25, 2009. THE CALCULATED BASE FLOOD ELEVATION IS 270.0'.
- 11. THE SUBJECT PARCEL LIES WITHIN THE LEVEL 1 GROUNDWATER PROTECTION DISTRICT.
- ON THE PROPERTY OTHER THAN THOSE SHOWN.
- 13. THE NORTHERN PORTION OF THE SUBJECT PROPERTY LIES WITHIN THE WEST ELM GATEWAY DISTRICT AND IS SUBJECT TO THE REQUIREMENTS AND RESTRICTIONS SET FORTH IN SECTION 6.07.0 OF THE MILFORD ZONING ORDINANCE.
- 14. THE SOUTHERN PORTION OF SUBJECT PROPERTY LIES WITHIN THE COMMERCE COMMUNITY OVERLAY DISTRICT AND IS SUBJECT TO THE REQUIREMENTS AND RESTRICTIONS SET FORTH
- 1. THIS PROJECT WILL BE CONSTRUCTED IN THREE PHASES.
- THE FIRST PHASE WILL CONSIST OF GRADING THE ENTIRE SITE AND INSTALLING/CONSTRUCTING ALL DRAINAGE IMPROVEMENTS AS SHOWN. ALL UNDERGROUND UTILITIES WILL BE CONSTRUCTED AND INSTALLED FOR THE BUILDINGS DURING THIS PHASE. THIS PHASE ALSO INCLUDES THE CONSTRUCTION OF BUILDING "B" AND ASSOCIATED GRAVEL AREAS AS SHOWN. OUTDOOR STORAGE MAY BE PERMITTED IN THE FOOTPRINT OF BUILDING
- 3. PHASE TWO WILL LIKELY CONSIST OF CONSTRUCTING BUILDINGS "A" AND "C"
- 4. PHASE THREE WILL CONSIST OF CONSTRUCTING THE PROPOSED ADDITION AS SHOWN.
- * NOTE: BUILDING CONSTRUCTION PHASING MAY BE ADJUSTED BASED ON MARKET DEMAND

В	6/27/19	REV. PER STAFF COMMENTS		CLR	CEB
Α	5/2/19	REV. PER STORMWATER DESIGN		PWH	CEB
REV.	DATE	DESCRIPTION	C/0	DR	CK

SITE PLAN

TAX MAP PARCEL 7-25 - 19 PERRY ROAD MILFORD, NEW HAMPSHIRE

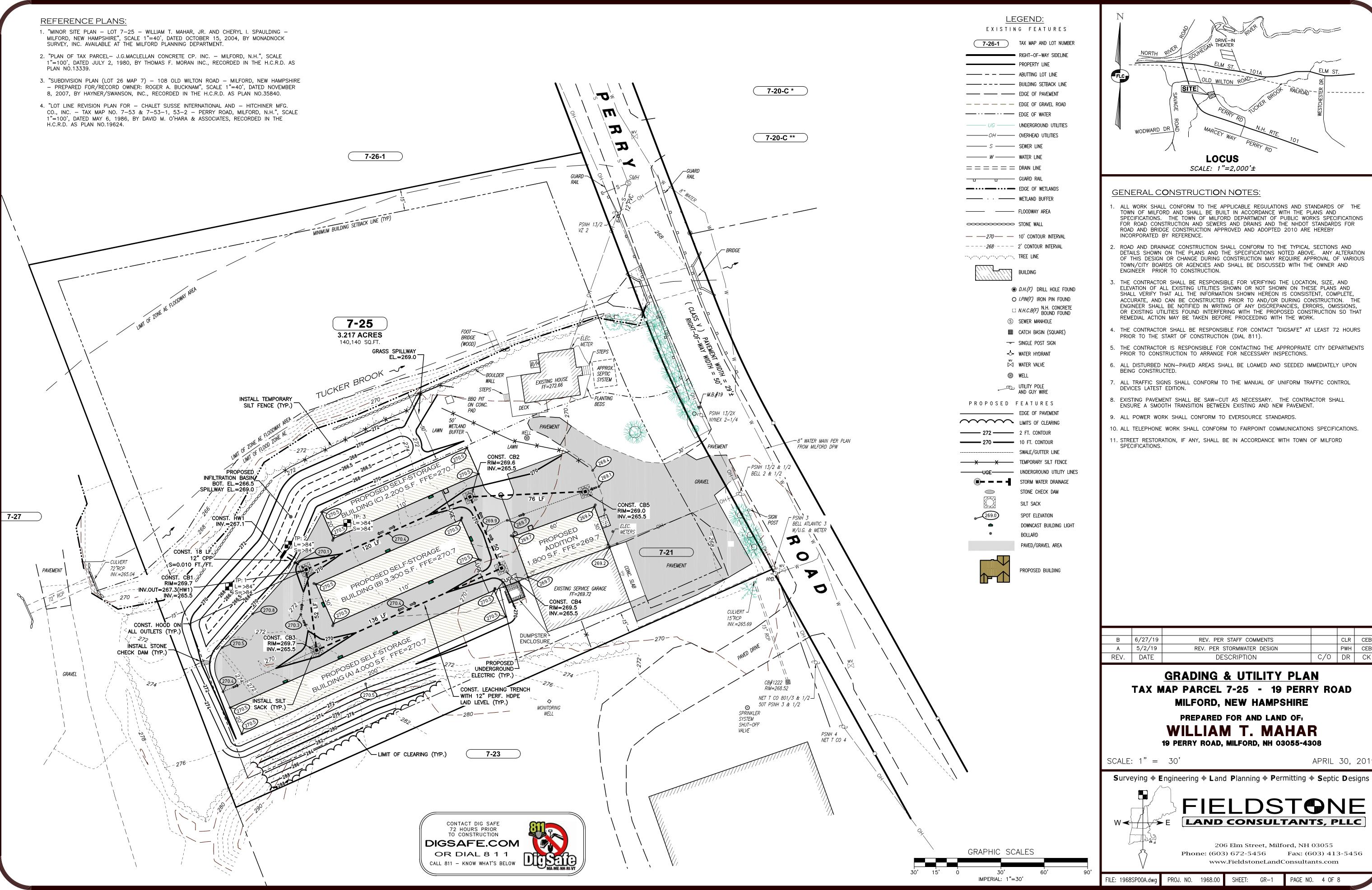
PREPARED FOR AND LAND OF: **WILLIAM T. MAHAR**

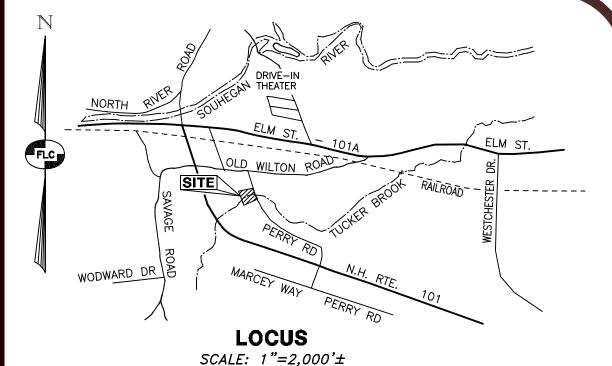


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GENERAL CONSTRUCTION NOTES:

- ALL WORK SHALL CONFORM TO THE APPLICABLE REGULATIONS AND STANDARDS OF THE TOWN OF MILFORD AND SHALL BE BUILT IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. THE TOWN OF MILFORD DEPARTMENT OF PUBLIC WORKS SPECIFICATIONS FOR ROAD CONSTRUCTION AND SEWERS AND DRAINS AND THE NHDOT STANDARDS FOR ROAD AND BRIDGE CONSTRUCTION APPROVED AND ADOPTED 2010 ARE HEREBY INCORPORATED BY REFERENCE.
- . ROAD AND DRAINAGE CONSTRUCTION SHALL CONFORM TO THE TYPICAL SECTIONS AND DETAILS SHOWN ON THE PLANS AND THE SPECIFICATIONS NOTED ABOVE. ANY ALTERATION OF THIS DESIGN OR CHANGE DURING CONSTRUCTION MAY REQUIRE APPROVAL OF VARIOUS TOWN/CITY BOARDS OR AGENCIES AND SHALL BE DISCUSSED WITH THE OWNER AND ENGINEER PRIOR TO CONSTRUCTION.
- . THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, SIZE, AND ELEVATION OF ALL EXISTING UTILITIES SHOWN OR NOT SHOWN ON THESE PLANS AND SHALL VERIFY THAT ALL THE INFORMATION SHOWN HEREON IS CONSISTENT, COMPLETE, ACCURATE, AND CAN BE CONSTRUCTED PRIOR TO AND/OR DURING CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY DISCREPANCIES, ERRORS, OMISSIONS, OR EXISTING UTILITIES FOUND INTERFERING WITH THE PROPOSED CONSTRUCTION SO THAT REMEDIAL ACTION MAY BE TAKEN BEFORE PROCEEDING WITH THE WORK.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACT "DIGSAFE" AT LEAST 72 HOURS PRIOR TO THE START OF CONSTRUCTION (DIAL 811).
- 5. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE APPROPRIATE CITY DEPARTMENTS PRIOR TO CONSTRUCTION TO ARRANGE FOR NECESSARY INSPECTIONS.
- 6. ALL DISTURBED NON-PAVED AREAS SHALL BE LOAMED AND SEEDED IMMEDIATELY UPON
- 7. ALL TRAFFIC SIGNS SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES LATEST EDITION.
- 8. EXISTING PAVEMENT SHALL BE SAW-CUT AS NECESSARY. THE CONTRACTOR SHALL ENSURE A SMOOTH TRANSITION BETWEEN EXISTING AND NEW PAVEMENT.
- 9. ALL POWER WORK SHALL CONFORM TO EVERSOURCE STANDARDS.
- 10. ALL TELEPHONE WORK SHALL CONFORM TO FAIRPOINT COMMUNICATIONS SPECIFICATIONS.
- 11. STREET RESTORATION, IF ANY, SHALL BE IN ACCORDANCE WITH TOWN OF MILFORD

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REV.	DATE	DESCRIPTION	C/0	DR	CK

GRADING & UTILITY PLAN TAX MAP PARCEL 7-25 - 19 PERRY ROAD MILFORD, NEW HAMPSHIRE PREPARED FOR AND LAND OF:

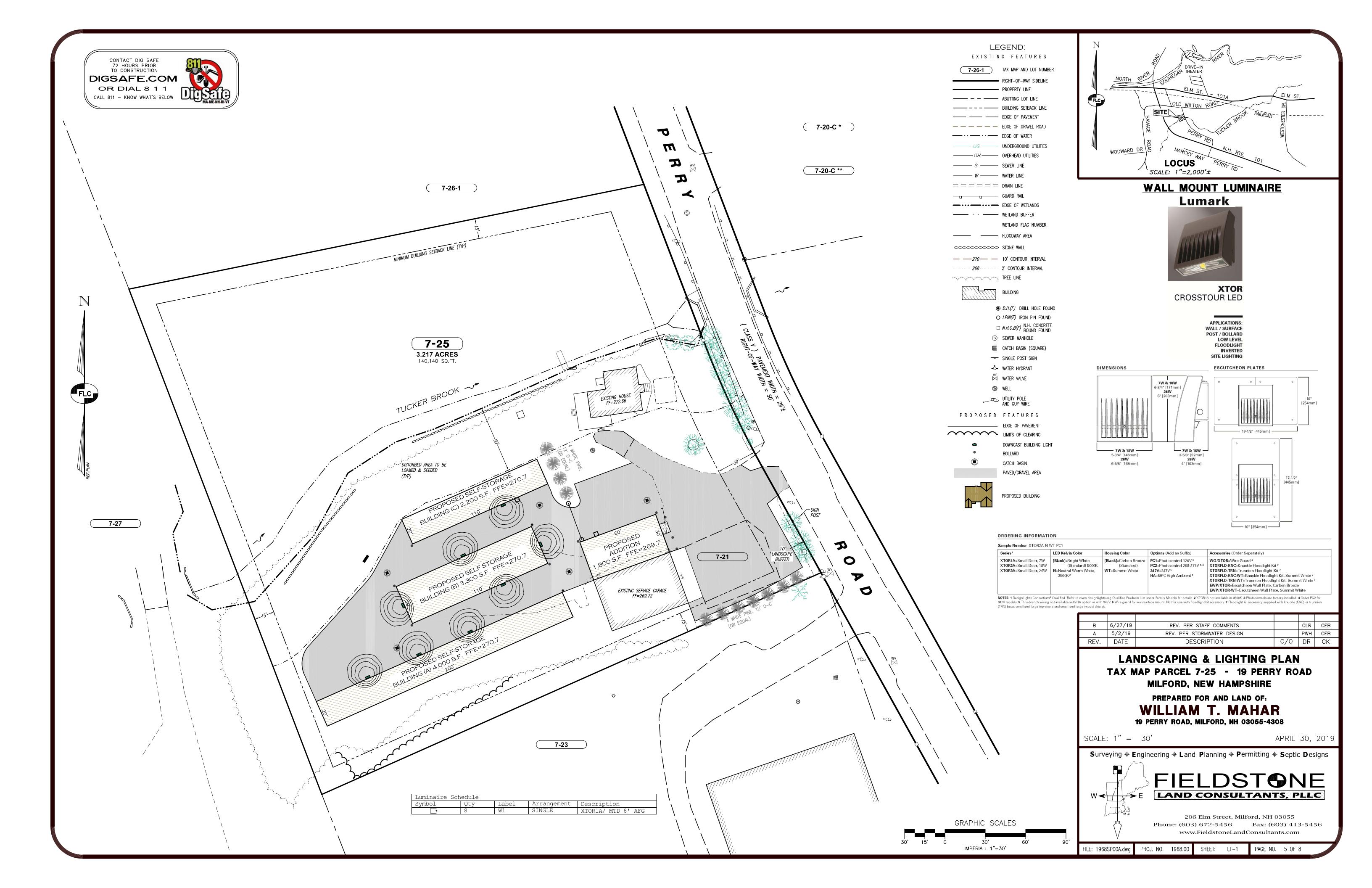
WILLIAM T. MAHAR 19 PERRY ROAD, MILFORD, NH 03055-4308

APRIL 30, 2019

FIELDSTONE LAND CONSULTANTS, PLLC

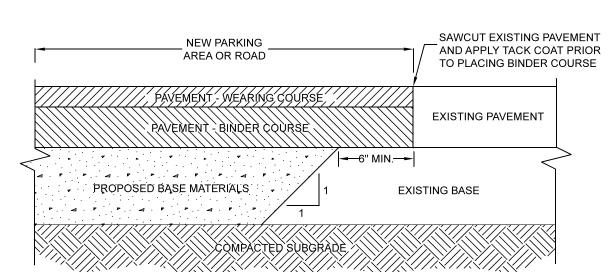
> 206 Elm Street, Milford, NH 03055 Phone: (603) 672-5456 Fax: (603) 413-5456 www. Fields to ne Land Consultants. com

FILE: 1968SP00A.dwg PROJ. NO. 1968.00 SHEET: GR-1 PAGE NO. 4 OF 8



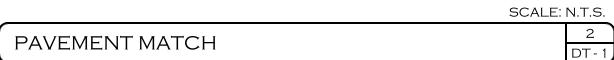
- 1. ALL CONSTRUCTION SHALL CONFORM TO THE APPLICABLE REQUIREMENTS AND SPECIFICATIONS OF THE
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, SIZE, AND ELEVATION OF ALL EXISTING UTILITIES SHOWN OR NOT SHOWN ON THESE PLANS AND SHALL VERIFY THAT ALL THE INFORMATION SHOWN HEREON IS CONSISTENT, COMPLETE, ACCURATE, AND CAN BE CONSTRUCTED PRIOR TO AND/OR DURING CONSTRUCTION. FIELDSTONE LAND CONSULTANTS, PLLC, AS THE DESIGN ENGINEER, SHALL BE NOTIFIED IN WRITING OF ANY DISCREPANCIES, ERRORS, OMISSIONS, OR EXISTING UTILITIES FOUND INTERFERING WITH THE PROPOSED CONSTRUCTION SO THAT REMEDIAL ACTION MAY BE TAKEN BEFORE PROCEEDING WITH THE WORK.
- 3. THE CONTRACTOR SHALL CONTACT "DIGSAFE" 72 HOURS PRIOR TO THE START OF CONSTRUCTION (1-800-255-4977 IN NH, 1-888-344-7233 IN MA).
- 4. COMPLIANCE WITH ALL APPLICABLE REGULATIONS AND SPECIAL CONDITIONS OF TOWN/CITY AGENCIES, SUCH AS THE PLANNING BOARD, ZONING BOARD, CONSERVATION COMMISSION, AND OTHERS, IS MANDATORY AND IS THE RESPONSIBILITY OF THE OWNER.
- 5. ANY ALTERATION OF THIS DESIGN OR CHANGE DURING CONSTRUCTION MAY REQUIRE APPROVAL OF VARIOUS TOWN/CITY BOARDS OR AGENCIES AND SHALL BE DISCUSSED WITH THE OWNER AND FIELDSTONE LAND CONSULTANTS, PLLC PRIOR TO CONSTRUCTION.
- 6. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE APPROPRIATE TOWN DEPARTMENTS PRIOR TO CONSTRUCTION TO ARRANGE FOR NECESSARY INSPECTIONS.
- 7. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ACCURATE AS-BUILT INFORMATION OF ALL WORK, ESPECIALLY UNDERGROUND CONSTRUCTION OF UTILITY LINES, SERVICES, CONNECTIONS, ETC. AND APPROPRIATE TIES TO ABOVE GROUND PERMANENT STRUCTURES, FIELD SURVEY COORDINATES, OR SOME OTHER METHOD OF ESTABLISHING THE AS-BUILT CONDITION OF ALL CONSTRUCTION.

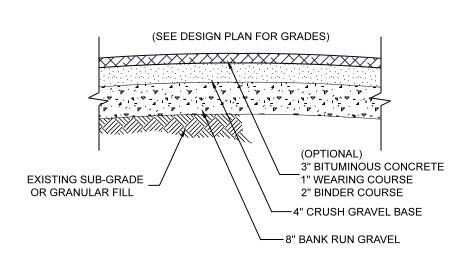




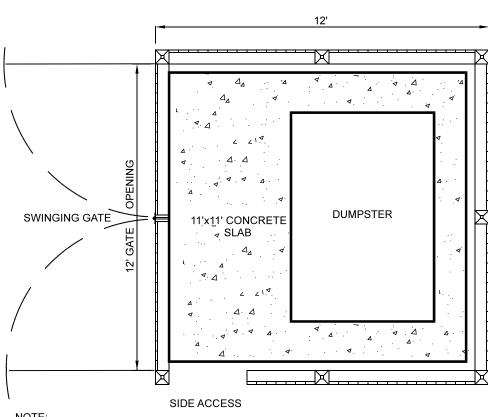
SEE ROADWAY OR PARKING LOT SECTION FOR MATERIALS AND ASSOCIATED DEPTHS.

2. INFRARED JOINT AFTER PLACING PAVEMENT.



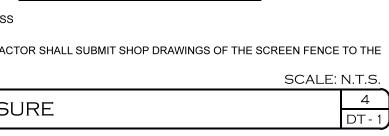


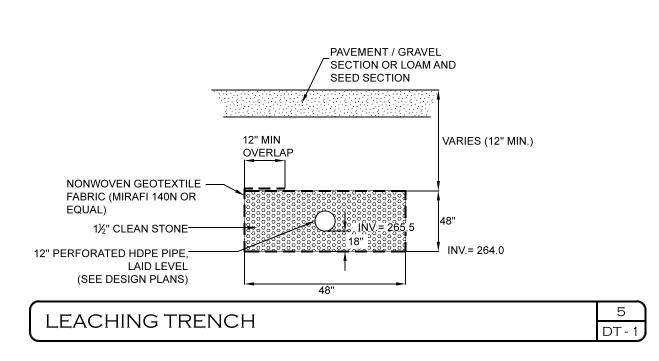
PAVED AREAS/INTERIOR AISLE SECTION

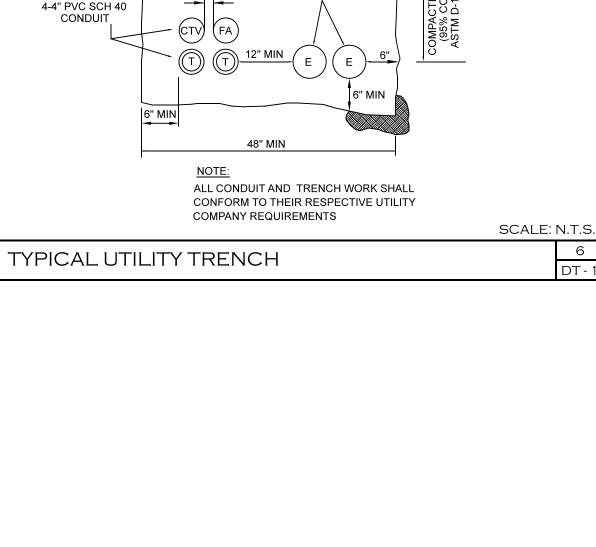


PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF THE SCREEN FENCE TO THE ENGINEER FOR APPROVAL.

DUMPSTER ENCLOSURE



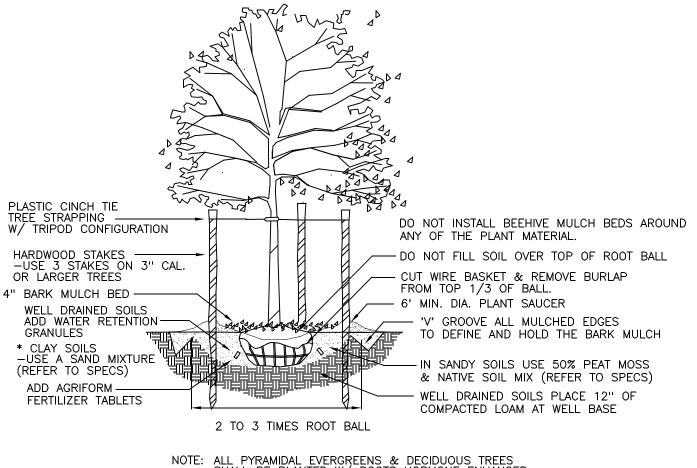




SUITABLE MATERIAL—

2-5" PVC SCH 40

ELECTRIC CONDUIT



NOTE: ALL PYRAMIDAL EVERGREENS & DECIDUOUS TREES SHALL BE PLANTED W/ ROOTS HORMONE ENHANCER.

SCALE: N.T.S DECIDUOUS TREE PLANTING DETAIL



- 1. TEMPORARY PROTECTION OF DISTURBED AREAS SHALL BE IMPLEMENTED WHERE A TEMPRORARY STAND OF GRASS OR SMALL GRAINS WILL NORMALLY PRODUCE SUFFICIENT COVER TO RETARD EROSION AND REDUCE SEDIMENT.
- 2. USE OF TEMPORARY SEEDING SHALL BE IMPLEMENTED WHEN A DISTURBED AREA OR MATERIAL STOCKPILE WILL BE INACTIVE FOR A PROLONGED PERIOD
- 3. ALL ESSENTIAL GRADING SUCH AS DIVERSIONS. DAMS, DITCHES, AND DRAINS NEEDED TO PREVENT GULLYING AND REDUCE SILTATION SHALL BE COMPLETED PRIOR TO SEEDING.
- 4. PREPARE SEEDBED BY REMOVEING ALL STONES, TRASH AND STUMPING DEBRIS THAT WILL INTERFERE WITH SEEDING AREA. WHERE FEASIBLE, TILL THE SOIL TO A DEPTH OF ABOUT 3 INCHES TO PREPARE SEEDBED AND MIX FERTILIZER INTO THE SOIL. THE SEEDBED SHOULD BE LEFT IN A FIRM AND SMOOTH CONDITION. THE LAST TILLAGE OPERATIONS SHOULD BE PERFORMED ACROSS THE SLOPE.
- 5. A MINIMUM OF 300 POUNDS PER ACRE (7 LBS. PER 1,000 SQ.FT.) OF 10-10-10 FERTILIZER, OR ITS EQUIVALENT, SHALL BE UNIFORMLY SPREAD OVER THE AREA PRIOR TO BEING INCORPORATED INTO THE SOIL.
- 6. THE SEED SHALL BE SPREAD UNIFORMLY OVER THE AREA. AFTER SEEDING, THE SOIL SHOULD BE FIRMED BY ROLLING OR PACKING. WHERE ROLLING OR PACKING IS NOT FEASIBLE, THE SEED SHALL BE COVERED LIGHTLY BY RAKING, DISKING, OR DRAGGING.
- 7. HAY OR STRAW MULCH MAY BE NECCESSARY TO PROMOTE SEED GERMINATION IN DRY AND/OR INFERTILE CONDITIONS.
- 8. PLANT SELECTION AND APPLICATION RATES:

SPECIES RATE 1 RATE 2 REMARKS (LBS/AC.) (LBS/1,000 S.F.) WINTER RYE 112 FALL, 8/15 TO 9/15 PLANT 1.0 INCH DEEP 2.0 SPRING PRIOR TO 5/15PLANT 1.0 INCH DEEP QUICK, SHORT DURATION ANNUAL GOOD APPEARANCEEARLY SPRING RYEGRASS & FALLPLANT 0.25 INCH DEEP PERENNIAL LASTS LONGER THAN ANNUAL LATE SPRING & FALL MULCHING RYEGRASS WILL ALLOW USE ALL

SEEDING FOR TEMPORARY PROTECTION OF DISTURBED AREAS

REV. PER STAFF COMMENTS CLR CEB REV. DATE DESCRIPTION

SEASONPLANT 0.5 INCH DEEP

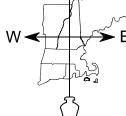
CONSTRUCTION DETAILS TAX MAP PARCEL 7-25 - 19 PERRY ROAD MILFORD, NEW HAMPSHIRE PREPARED FOR AND LAND OF:

WILLIAM T. MAHAR 19 PERRY ROAD, MILFORD, NH 03055-4308

SCALE: AS SHOWN

APRIL 30, 2019

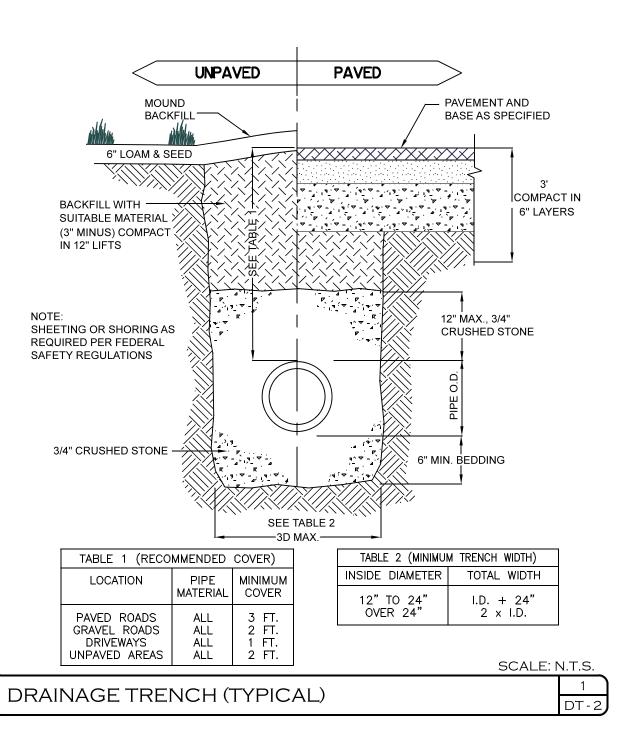
Surveying ϕ Engineering ϕ Land Planning ϕ Permitting ϕ Septic Designs FIELDSTONE



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REMOVE ALL ORGANIC MATERIAL FROM AREA BELOW PROPOSED INFILTRATION BASINS AND TO EXPOSE UNDERLYING SOILS.

DO NOT TRAFFIC EXPOSED SOIL SURFACE WITH CONSTRUCTION EQUIPMENT. IF FEASIBLE, PERFORM EXCAVATIONS WITH

FILL BELOW THE BASIN AND/OR LEACHING TRENCHES SHALL CONFORM TO THE SPECIFICATIONS FOR NHDOT ITEM 209.1,

THE BASIN FLOOR OF THE INFILTRATION BASINS SHALL BE PREPARED USING ONE OF THE FOLLOWING METHODS

ONCE EXCAVATED AND PRIOR TO FILLING, THE UNDERLYING SOILS SHALL BE DEEPLY TILLED WITH A ROTARY TILLER OR DISC

1) A FILTER MEDIA 36" DEEP CONSISTING 50% TO 55% BY VOLUME SAND ALSO IDENTIFIED AS ASTM C-33 CONCRETE SAND, 20%

TO 30% BY VOLUME OF LOAMY SAND TOPSOIL WITH 15% TO 25% FINES PASSING THE NUMBER 200 SIEVE, AND 20% TO 30% BY

VOLUME MODERATELY FINE SHREDDED BARK OR WOOD FIBER MULCH WITH LESS THAN 5% PASSING THE NUMBER 200 SIEVE.

- FILTER MEDIA SHALL BE TESTED BY THE ENGINEER PRIOR TO USE FOR THE BASIN BOTTOM TO ENSURE A MAX. EXFILTRATION

DO NOT PLACE INFILTRATION BASINS/TRENCHES INTO SERVICE UNTIL ALL CONTRIBUTING AREAS HAVE BEEN FULLY

2) A FILTER MEDIA 36" DEEP CONSISTING 20% TO 30% BY VOLUME OF MODERATELY FINE SHREDDED BARK OR WOOD FIBER MULCH THAT HAS NO MORE THAN 5% FINES PASSING THE NUMBER 200 SIEVE, WITH 70 TO 80% BY VOLUME LOAMY COARSE

CARE SHALL BE TAKEN TO PROTECT THE UNDERLYING SOILS FROM CONSTRUCTION TRAFFIC AND THE DISCHARGE OF

EQUIPMENT POSITIONED OUTSIDE THE LIMITS OF THE INFILTRATION SYSTEM.

HARROW TO RESTORE INFILTRATION RATES, FOLLOWED BY A PASS WITH LEVELING DRAG.

SAND USED IN THE MIXTURE MEETING THE FOLLOWING SIEVE ANALYSIS SPECIFICATION: - FROM 85 TO 100 PERCENT BY WEIGHT SHALL PASS THE NUMBER 10 SIEVE; - FROM 70 TO 100 PERCENT BY WEIGHT SHALL PASS THE NUMBER 20 SIEVE; - FROM 15 TO 40 PERCENT BY WEIGHT SHALL PASS THE NUMBER 60 SIEVE; AND

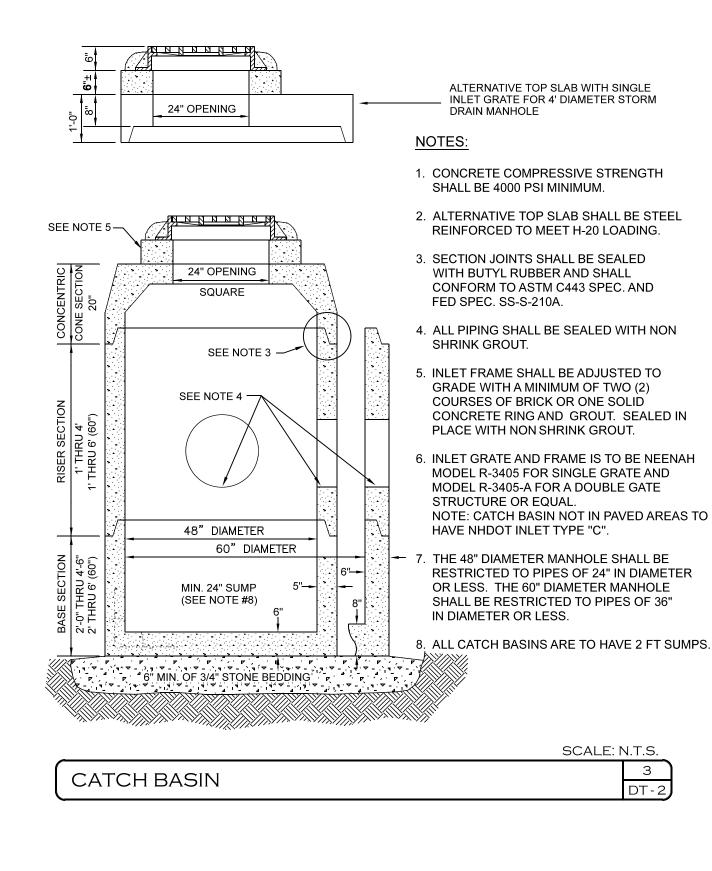
INFILTRATION BASIN CONSTRUCTION NOTES

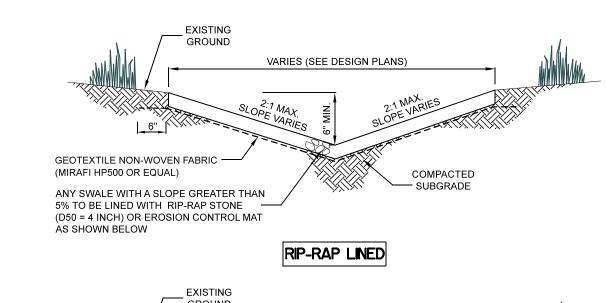
- FROM 8 TO 15 PERCENT BY WEIGHT SHALL PASS THE NUMBER 200 SIEVE:

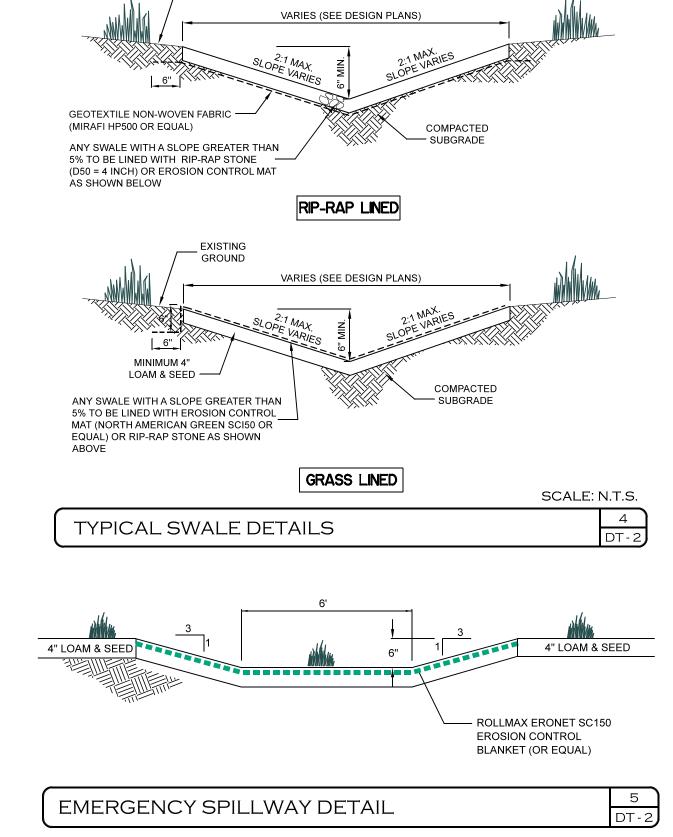
- FILTER SHALL NOT BE COVERED BY GRASS.

STABILIZED.

SEDIMENT LADEN RUNOFF

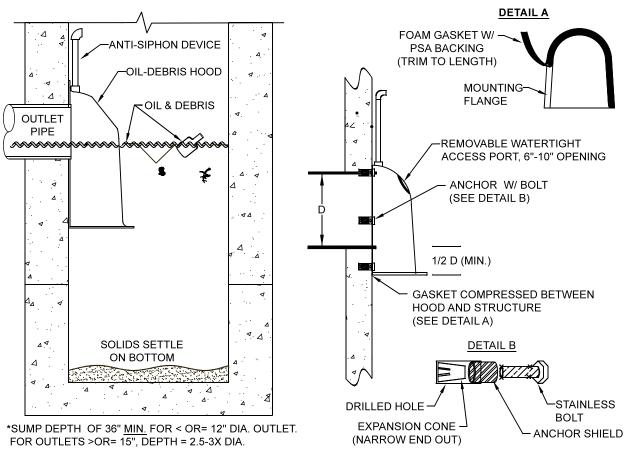












STRUCTURE OUTLET HOLE SIZE HOOD SIZE 11.9" O.D. OR LESS 12 F or R 12.0"-17.9" O.D. 18 F or R 18.0"-23.9" O.D. 24 F or R 24.0"-29.9" O.D. 30 F or R 30.0"-47.9" O.D. 48 F 48.0"-95.9" O.D.

DISTANCE OF 1/2 OUTLET PIPE DIAMETER (MIN.) BELOW THE PIPE INVERT. MINUMUM DISTANCE FOR PIPES <12" I.D. IS 6".

<u>ISTALLATION NOTE:</u>
OSITION HOOD SUCH THAT BOTTOM FLANGE IS A

F: FLAT WALL STRUCTURE R: ROUND WALL STRUCTURE

INSTALLATION DETAIL)

HOODS OR EQUAL, TO BE INSTALLED ON ALL CATCH BASINS.

1. ALL HOODS SHALL BE EQUIPPED WITH A WATERTIGHT ACCESS PORT, A MOUNTING FLANGE, AND AN ANTI-SIPHON VENT AS DRAWN. (SEE CONFIGURATION DETAIL)

2. THE SIZE AND POSITION OF THE HOOD SHALL BE DETERMINED BY OUTLET PIPE SIZE AS PER MANUFACTURER'S RECOMMENDATION.

3. THE BOTTOM OF THE HOOD SHALL EXTEND DOWNWARD A DISTANCE EQUAL TO 1/2 THE OUTLET PIPE DIAMETER WITH A MINIMUM DISTANCE OF 6" FOR PIPES <12" I.D.

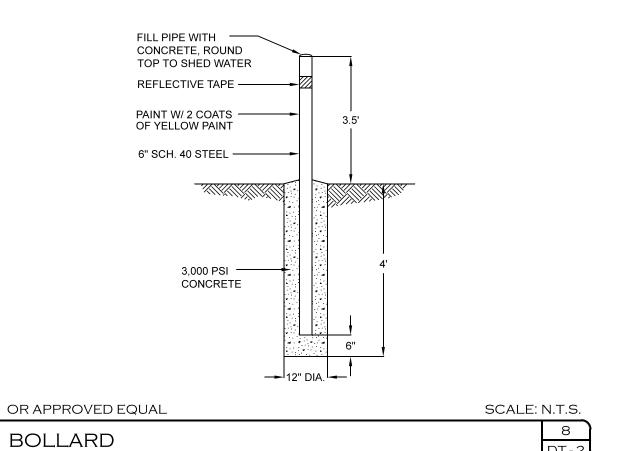
4. THE ANTI-SIPHON VENT SHALL EXTEND ABOVE HOOD BY MINIMUM OF 3" AND A MAXIMUM OF 12" ACCORDING TO STRUCTURE CONFIGURATION.

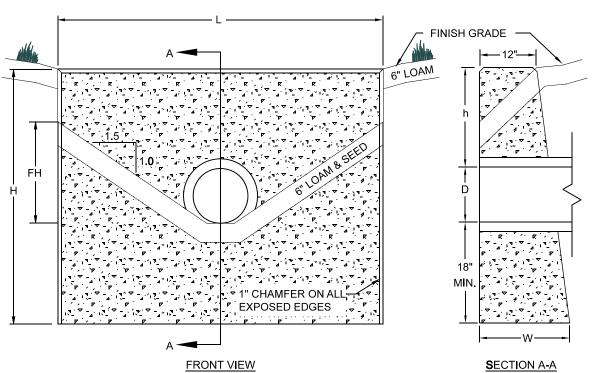
5. THE SURFACE OF THE STRUCTURE WHERE THE HOOD IS MOUNTED SHALL BE FINISHED SMOOTH AND FREE OF LOOSE MATERIAL AND THE PIPE SHALL BE TRIMMED FLUSH TO WALL.

6. THE HOOD SHALL BE SECURELY ATTACHED TO STRUCTURE WALL WITH 3/8' STAINLESS STEEL BOLTS AND OIL-RESISTANT GASKET AS SUPPLIED BY MANUFACTURER. (SEE

7. ALL HOODS AND TRAPS FOR CATCH BASINS AND WATER QUALITY STRUCTURES SHALL BE AS MANUFACTURED BY BEST MANAGEMENT PRODUCTS, INC., LYME, CT OR EQUAL.







D-2

HEADWALL HEADWALL FILL CULVERT TOP HEADWALL DIAM. HEIGHT HEIGHT HEIGHT BOTTOM LENGTH WIDTH W INCHE**S** FEET & INCHES 1'-7" 6'-0" 1'-**6**" 2'-**0**.75" 4'-3" 7'-0" 4'**-6**" 1'-1**0**" 2'-1.5**0**" 1'**-6**" 2'-3**.00**" 3**0** 11'-**0**" 2'-1**0**" 1'-6" 2'-4.5**0**" 13'-**0**" 6'-0" 3'-4" 1'-6" 2'-6.00" 3**6** 2'-**9**.75" 1'-**9**"

HEADWALL SHALL BE STEEL REINFORCED AND CONFORM TO NHDOT STANDARD PLAN HW-2, LAST REVISED JUNE 16, 2010.

HEADWALL - PRECAST CONCRETE



CONSTRUCTION DETAILS TAX MAP PARCEL 7-25 - 19 PERRY ROAD MILFORD, NEW HAMPSHIRE

PREPARED FOR AND LAND OF: **WILLIAM T. MAHAR**

19 PERRY ROAD, MILFORD, NH 03055-4308

SCALE: AS SHOWN

APRIL 30, 2019

SCALE: N.T.S.

Surveying ϕ Engineering ϕ Land Planning ϕ Permitting ϕ Septic Designs



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- INSTALL STONE CHECK DAMS AND SILTATION CONTROL FENCES IN LOCATIONS SHOWN ON PLANS. <u>EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO</u> ANY EARTH MOVING OPERATION.
- 2. INSTALL STABILIZED CONSTRUCTION ENTRANCE(S).
- 3. CUT AND CLEAR TREES; DISPOSE OF DEBRIS. STUMPS ARE TO BE BURIED ON SITE AT THE LOCATIONS SHOWN. STUMPS SHALL BE COMPACTED AND ALL VOIDS FILLED WITH SUITABLE MATERIAL. COVER WITH 4" OF LOAM AND SEED PER THE EROSION CONTROL NOTES.
- 4. REMOVE TOPSOIL AND STOCKPILE AWAY FROM ANY WETLAND. STABILIZE STOCKPILE IMMEDIATELY BY SEEDING. PLACE SILT FENCE AROUND THE DOWN SLOPE SIDE OF EARTH
- 5. ROUGH GRADE SITE CONSTRUCT DRAINAGE BASINS, CATCH BASINS AND DRAINAGE SWALES DURING INITIAL PORTION OF CONSTRUCTION. STABILIZE IMMEDIATELY PER THE CONSTRUCTION AND EROSION CONTROL DETAILS. DO NOT DIRECT STORM WATER RUNOFF TO THESE STRUCTURES UNTIL A HEALTHY VEGETATIVE COVER IS ESTABLISHED.
- 6. CONSTRUCT STORAGE BUILDINGS, PAVED AREAS AND ASSOCIATED SITE IMPROVEMENTS AS SHOWN. ALL CUT AND FILL SLOPES SHALL BE STABILIZED UPON COMPLETION OF ROUGH GRADING PER THE THE EROSION CONTROL NOTES.
- PLACE STONE CHECK DAMS AROUND INLETS AROUND ALL STRUCTURES UNTIL AREAS ARE STABLE AND ALL NON-PAVED DISTURBED AREAS HAVE A HEALTHY VEGETATIVE COVER. SILT SACKS MAY BE UTILIZED IN PLACE OF STONE CHECK DAMS ON CATCH BASINS.
- 8. INSPECT AND MAINTAIN EROSION CONTROL MEASURES ON A WEEKLY BASIS AND AFTER EVERY 0.25" OR GREATER RAINFALL.
- 9. DAILY, OR AS REQUIRED, CONSTRUCT TEMPORARY BERMS, CULVERTS, DITCHES, SILTATION FENCES, SEDIMENT TRAPS, ETC. MULCH AND SEED AS REQUIRED.
- 10. FINISH GRADING AND PREPARE FOR LOAMING. ALL DISTURBED AREAS SHALL BE STABILIZED WITHIN 72 HOURS AFTER FINAL GRADING.
- 11. FINISH CONSTRUCTING STORAGE BUILDINGS AND PAVED AREAS. PERMANENT SEEDING SHALL BE PERFORMED UPON COMPLETION OF DRIVE AND PARKING AREA PAVING (SEE EROSION
- 12. COMPLETE PERMANENT SEEDING AND LANDSCAPING.
- 13. TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED WHEN ALL DISTURBED AREAS HAVE BEEN STABILIZED.
- 14. STORMWATER FLOWS ARE NOT TO BE DIRECTED INTO THE STORMWATER BASINS UNTIL THE CONTRIBUTING AREAS HAVE BEEN FULLY STABILIZED.
- 15. ALL STRUCTURES SHALL BE CLEANED OF SEDIMENTS ONCE CONSTRUCTION IS COMPLETE.

CONSTRUCTION SEQUENCE NOTES

EROSION CONTROL (GENERAL CONSTRUCTION)

- 1. PRIOR TO STARTING ANY WORK ON THE SITE THE CONTRACTOR SHALL NOTIFY APPROPRIATE
- EROSION CONTROL MEASURES SHALL BE INSTALLED PER PLANS AND DETAILS. PERIMETER CONTROLS SHALL BE IN PLACE PRIOR TO COMMENCEMENT OF EARTH DISTURBING ACTIVITIES
- 3. EXISTING VEGETATION IS TO REMAIN UNDISTURBED WHEN POSSIBLE
- 4. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE KEPT CLEAN DURING CONSTRUCTION. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSPECTED AT LEAST ONCE A WEEK AND AFTER EVERY 0.25-INCH OR GREATER RAINFALL. SEDIMENTS SHALL BE DISPOSED OF IN AN UPLAND AREA THAT WILL NOT CONTRIBUTE TO SEDIMENT OFF-SITE AND BE PERMANENTLY
- 5. THE SMALLEST PRACTICAL AREA SHALL BE DISTURBED DURING CONSTRUCTION.
- THE LAND AREA EXPOSED SHALL BE KEPT TO THE SHORTEST PRACTICAL PERIOD OF TIME. ALL NON-ACTIVE DISTURBED AREAS SHALL BE STABILIZED WITHIN 30 DAYS OF THE DISTURBANCE. ALL DISTURBED AREAS SHALL BE STABILIZED WITHIN 72 HOURS OF FINAL GRADING.
- 7. DITCHES, SWALES AND DRAINAGE BASINS SHALL BE CONSTRUCTED DURING THE INITIAL PHASE OF CONSTRUCTION AND STABILIZED PRIOR TO DIRECTING RUNOFF TO THEM.
- 8. AN AREA SHALL BE CONSIDERED STABILIZED IF ONE OF THE FOLLOWING HAS OCCURED:
 - BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED:
 - . A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED; A MINIMUM OF 3-INCHES OF NON-EROSIVE MATERIAL, SUCH AS STONE OR RIPRAP, HAS BEEN INSTALLED: OR
 - D. EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.
- EROSION CONTROL BLANKETS SHALL BE INSTALLED ON ALL SLOPES THAT ARE STEEPER THAN 3:1 (HORIZONTAL / VERTICAL). UNLESS OTHERWISE SPECIFIED THE CONTRACTOR SHALL USE NORTH AMERICAN GREEN SC150, OR APPROVED EQUAL
- 10. ALL AREAS RECIEVING EROSION CONTROL STONE OR RIPRAP SHALL HAVE A GEOTEXTILE MATERIAL INSTALLED BELOW THE STONE (SEE APPROPRIATE DETAILS).
- 11. ALL DISTURBED AREAS TO TURF FINSHED SHALL BE COVERED WITH A MINIMUM THICKNESS OF 4 INCHES OF COMPACTED LOAM. LOAM SHALL BE COVERED WITH THE APPROPRIATE SEED MIXTURE AS INDICATED BELOW:

PERMANENT SEED (LAWN AREAS)

POUNDS / 1,000 SQUARE FEET

CREEPING RED FESCUE 0.92 LBS PERENNIAL RYEGRASS 1.15 LBS KENTUCKY BLUEGRASS 0.58 LBS 0.12 LBS

APPLICATION RATE TOTALS 2.8 LBS PER 1,000 SF

12. APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS. IF SOIL TESTING IS NOT FEASIBLE (CRITICAL TIME FRAMES OR VARIABLE SITES) THEN APPLY FERTILIZER AT A RATE OF 11 POUNDS PER 1,000 SF AND LIMESTONE AT A RATE OF 90 POUNDS PER 1,000 SF. FERTILIZER SHALL BE LOW PHOSPHATE (LESS THAN 2% PHOSPHORUS).

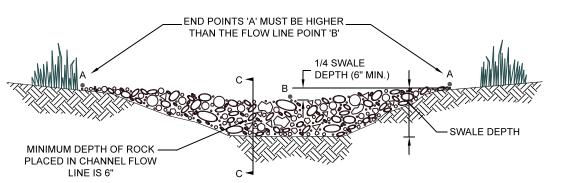
CAUTION SHOULD BE TAKE WHEN THE PROPERTY IS LOCATED WITHIN 250 FEET OF A WATER BODY. IN THIS CASE ALL FERTILIZERS SHALL BE RESTRICTED TO A LOW PHOSPHATE, SLOW RELEASE NITROGEN FERTILIZER. SLOW RELEASE FERTILIZERS MUST BE AT LEAST 50% SLOW RELEASE NITROGEN COMPONENT. NO FERTILIZER EXCEPT LIMESTONE SHALL BE APPLIED WITHIN 25 FEET OF THE SURFACE WATER. THESE ARE REGULATED LIMITATIONS.

- 13. PERMANENT OR TEMPORARY COVER MUST BE IN PLACE BEFORE THE GROWING SEASON ENDS (SEE WINTER CONSTRUCTION NOTES). NO DISTURBED AREAS SHALL BE LEFT EXPOSED DURING THE
- 14. A VIGOROUS DUST CONTROL PROGRAM SHALL BE APPLIED BY THE SITE CONTRACTOR. DUST SHALL BE MANAGED THROUGH THE USE OF WATER AND/OR CALCIUM CHLORIDE.
- 15. IN NO WAY ARE THE MEASURES INDICATED ON THE PLANS OR IN THESE NOTES TO BE CONSIDERED ALL INCLUSIVE. THE CONTRACTOR SHALL USE JUDGEMENT TO INSTALL ADDITIONAL EROSION CONTROL MEASURES AS SITE CONDITIONS, WEATHER OR CONSTRUCTION METHODS WARRANT.
- 16. FOLLOWING PERMANENT STABILIZATION, TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED AND ACCUMULATED SEDIMENTATION IS TO BE DISPOSED OF IN AN APPROVED LOCATION, OUTSIDE OF JURISDICTIONAL WETLANDS.

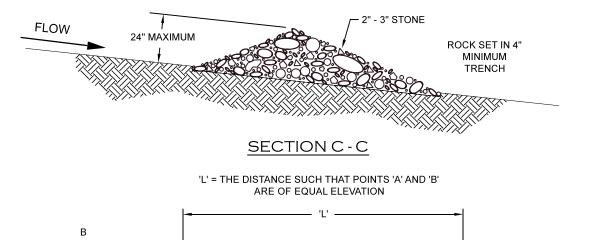
EROSION CONTROL (WINTER CONSTRUCTION)

- 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. STABILIZATION METHODS SHALL INCLUDE SEEDING AND INSTALLING EROSION CONTROL BLANKETS 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 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 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 INCHES OF CRUSHED GRAVEL OR PROPERLY INSTALLED EROSION CONTROL BLANKETS COVERED WITH HAY OTHER STABILIZATION OPTIONS ARE TO BE APPROVED BY THE APPROPRIATE AGENCIES AND THE DESIGN ENGINEER. IF CONSTRUCTION IS TO CONTINUE THROUGH THE WINTER MONTHS THEN THE ROAD SHOULD BE CLEARED OF ACCUMULATED SNOW AFTER EACH STORM EVENT





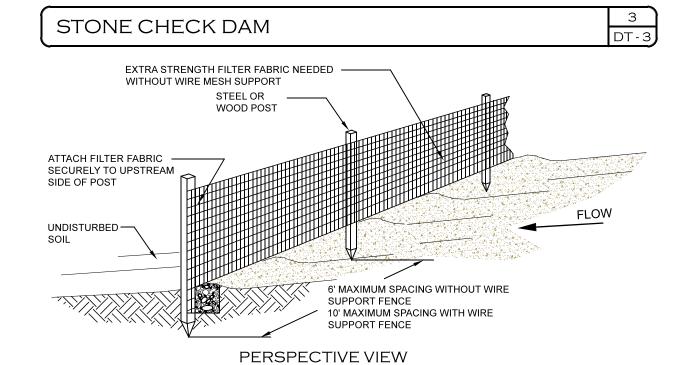
VIEW LOOKING UPSTREAM

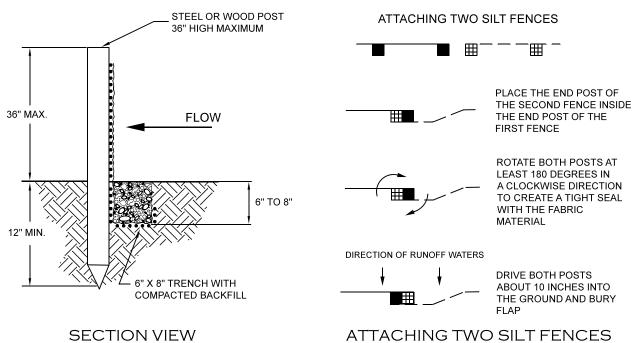


PROFILE - CHECK DAM SPACING

1. STONE CHECK DAMS SHOULD BE INSTALLED BEFORE RUNOFF IS DIRECTED TO THE SWALE OR

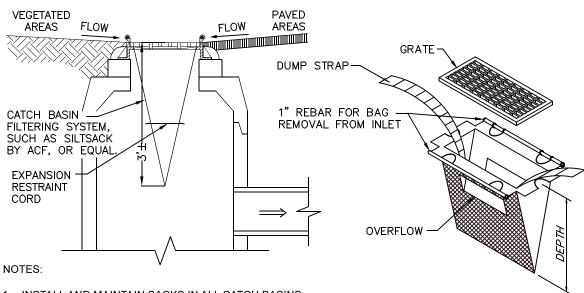
- 2. THE MAXIMUM CONTRIBUTING DRAINAGE AREA TO THE CHECK DAM SHOULD BE LESS THAN ONE ACRE.
- 3. STONE CHECK DAMS SHOULD NOT BE USED IN A FLOWING STREAM.
- 4. STONE CHECK DAMS SHOULD BE CONSTRUCTED OF WELL-GRADED ANGULAR 2 TO 3 INCH STONE. THE INSTALLATION OF 3/4-INCH STONE ON THE UPGRADIENT FACE IS RECOMMENDED FOR BETTER
- WHEN INSTALLING STONE CHECK DAMS THE CONTRACTOR SHALL KEY THE STONE INTO THE CHANNEL BANKS AND EXTEND THE STONE BEYOND THE ABUTMENTS A MINIMUM OF 18-INCHES TO PREVENT
- 6. STONE CHECK DAMS SHOULD BE REMOVED ONCE THE SWALE OR DITCH HAS BEEN STABILIZED UNLESS OTHERWISE SPECIFIED.





- 1. SILT FENCES SHOULD NOT BE USED ACROSS STREAMS, CHANNELS, SWALES, DITCHES OR OTHER DRAINAGE WAYS.
- SILT FENCE SHOULD BE INSTALLED FOLLOWING THE CONTOUR OF THE LAND AS CLOSELY AS POSSIBLE AND THE ENDS OF THE SILT FENCE SHOULD BE FLARED UPSLOPE.
- 3. IF THE SITE CONDITIONS INCLUDE FROZEN GROUND, LEDGE OR THE PRESENCE OF HEAVY ROOTS THE BASE OF THE FABRIC SHOULD BE EMBEDDED WITH A MINIMUM THICKNESS OF 8 INCHES OF 3/4-INCH
- 4. SILT FENCES PLACED AT THE TOE OF SLOPES SHOULD BE INSTALLED AT LEAST 6 FEET FROM THE TOE TO ALLOW SPACE FOR SHALLOW PONDING AND ACCESS FOR MAINTENANCE.
- THE MAXIMUM SLOPE ABOVE THE FENCE SHOULD BE 2:1 AND THE MAXIMUM LENGTH OF SLOPE ABOVE THE FENCE SHOULD BE 100 FEET.
- REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE TO SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
- 7. SILT FENCES SHOULD BE REMOVED WHEN THE UPSLOPE AREAS HAVE BEEN PERMANENTLY

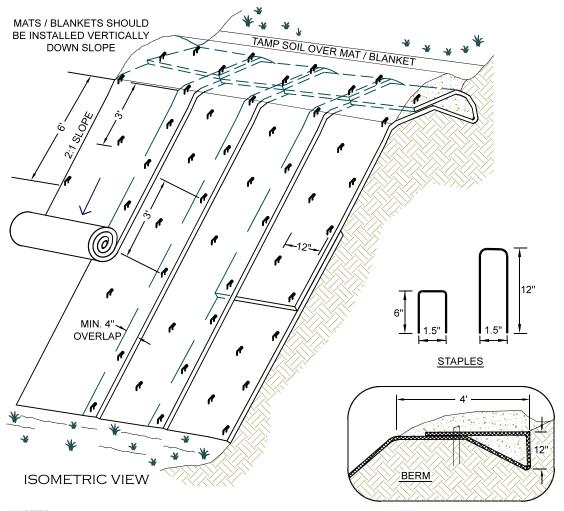
SILT FENCE



- 1. INSTALL AND MAINTAIN SACKS IN ALL CATCH BASINS.
- 2. TO INSTALL SACK, REMOVE CATCH BASIN GRATE AND PLACE SACK IN OPENING. HOLD OUT APPROXIMATELY SIX INCHES OF THE SACK OUTSIDE THE FRAME FOR THE LIFTING STRAPS. REPLACE THE GRATE TO HOLD THE
- 3. THE SACK SHOULD BE INSPECTED AFTER EVERY STORM, OR ONCE EVERY TWO WEEKS, WHICH EVER OCCURS FIRST
- 4. THE RESTRAINT CORD SHOULD BE VISIBLE AT ALL TIMES. IF THE CORD IS COVERED WITH SEDIMENT, THE SACK SHOULD BE EMPTIED. EMPTY THE SACK AWAY FROM THE CATCH BASIN TO PREVENT SEDIMENT FROM RE-ENTERING THE CATCH BASIN. EMPTY THE SACK PER THE MANUFACTURES RECOMMENDATIONS.
- 5. REPLACE THE SACK IN THE CATCH BASIN AFTER THE SACK HAS BEEN EMPTIED. ONCE CONSTRUCTION IS COMPLETE AND ALL DISTURBED AREAS HAVE BEEN STABILIZED BY PAVING OR A HEALTHY VEGETATIVE COVER, REMOVE THE SACK FROM THE CATCH BASINS.

SCALE: N.T.S.

SILT SACK SEDIMENT FILTER



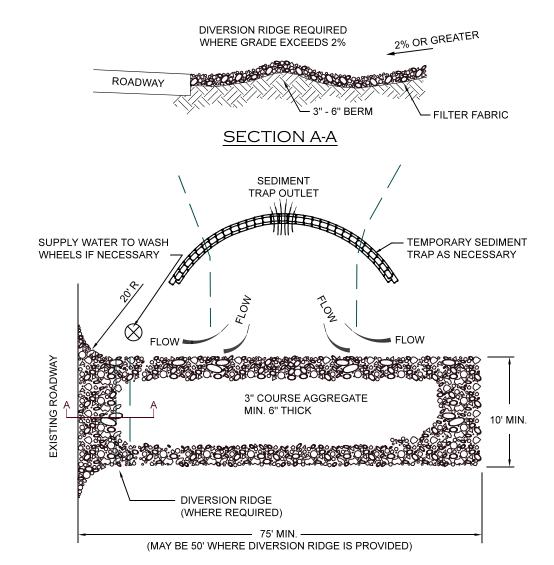
NOTES

- 1. DIMENSIONS GIVEN IN THIS DETAIL ARE EXAMPLES: DEVICE SHOULD BE INSTALLED PER MANUFACTURER'S
- 2. INSTALL STRAW/COCONUT FIBER EROSION CONTROL MAT SUCH AS NORTH AMERICAN GREEN SC150 OR EQUAL ON ALL SLOPES EXCEEDING 3' HORZ: 1' VERT.
- 3. THE EROSION CONTROL MATERIAL(S) SHALL BE ANCHORED WITH "U" SHAPED 11 GAUGE WIRE STAPLES OR WOODEN STAKES WITH A MINIMUM TOP WIDTH OF 1 INCH AND LENGTH OF 7 INCH.
- 4. SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS AND GRASS. MATS / BLANKETS SHALL HAVE GOOD SOIL CONTACT.
- 5. APPLY LIME, FERTILIZER AND PERMANENT SEEDING BEFORE PLACING BLANKETS.
- 6. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET AS SHOWN. ROLL THE BLANKETS DOWN THE SLOPE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES OR STAKES IN APPROPRIATE LOCATIONS. <u>REFER TO MANUFACTURERS STAPLE GUIDE FOR CORRECT STAPLE</u>
- 7. LAY BLANKETS LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT
- 8. IN LOOSE SOIL CONDITIONS THE USE OF STAPLES OR STAKE LENGTHS GREATER THAN 6 INCHES MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.
- 9. THE CONTRACTOR SHALL MAINTAIN THE BLANKET UNTIL ALL WORK ON THE CONTRACT HAS BEEN COMPLETED AND ACCEPTED. MAINTENANCE SHALL CONSIST OF THE REPAIR OF AREAS WHERE DAMAGED BY ANY CAUSE. ALL DAMAGED AREAS SHALL BE REPAIRED TO REESTABLISH THE CONDITIONS AND GRADE OF THE SOIL PRIOR TO APPLICATION OF THE COVERING AND SHALL BE REFERTILIZED, RESEEDED AND REMULCHED AS DIRECTED

SCALE: N.T.S.

EROSION BLANKETS - SLOPE INSTALLATION





PLAN VIEW

- 1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO
- 2. THE MINIMUM STONE USED SHOULD BE 3-INCH CRUSHED STONE.
- 3. THE MINIMUM LENGTH OF THE PAD SHOULD BE 75 FEET, EXCEPT THAT THE MINIMUM LENTH MAY BE REDUCED TO 50 FEET IF A 3-INCH TO 6-INCH HIGH BERM IS INSTALLED AT THE ENTRANCE OF THE PROJCT SITE.
- 4. THE PAD SHOULD EXTEND THE FULL WIDTH OF THE CONSTRUCTION ACCESS ROAD OR 10 FEET, WHICHEVER IS GREATER.
- 5. THE PAD SHOULD SLOPE AWAY FROM THE EXISTING ROADWAY.
- 6. THE PAD SHOULD BE AT LEAST 6-INCHES THICK.
- 7. THE GEOTEXTILE FILTER FABRIC SHOULD BE PLACED BETWEEN THE STONE PAD AND THE EARTH SURFACE BELOW THE PAD.
- 8. THE PAD SHALL BE MAINTAINED OR REPLACED WHEN MUD AND SOIL PARTICLES CLOG THE VOIDS IN THE STONE SUCH THAT MUD AND SOIL PARTICLES ARE TRACKED OFF-SITE
- 9. NATURAL DRAINAGE THAT CROSSES THE LOCATION OF THE STONE PAD SHOULD BE INTERCEPTED AND PIPED BENEATH THE PAD, AS NECESSARY, WITH SUITABLE OUTLET
- 10. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC
- 11. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT

SCALE: N.T.S.

GRAVEL CONSTRUCTION EXIT



REV. PER STAFF COMMENTS CEB REV. DATE DESCRIPTION

EROSION CONTROL DETAILS TAX MAP PARCEL 7-25 - 19 PERRY ROAD MILFORD, NEW HAMPSHIRE PREPARED FOR AND LAND OF:

WILLIAM T. MAHAR 19 PERRY ROAD, MILFORD, NH 03055-4308

SCALE: AS SHOWN

Surveying ϕ Engineering ϕ Land Planning ϕ Permitting ϕ Septic Designs

APRIL 30, 2019



206 Elm Street, Milford, NH 03055 Phone: (603) 672-5456 Fax: (603) 413-5456 www. Fields to ne Land Consultants. com

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EROSION CONTROL NOTES





