GENERAL INFORMATION

OWNER

TAX MAP PARCEL NO. 210-44/ 57 TRINITY CONSERVATION LLC 119 FLAGG ROAD ROCHESTER NH 03839

APPLICANT

TRINITY CONSERVATION LLC 119 FLAGG ROAD ROCHESTER NH 03839

PREPARED FOR

TRINITY CONSERVATION LLC 119 FLAGG ROAD ROCHESTER NH 03839

RESOURCE LIST

PLANNING/ ZONING DEPARTMENT BARRINGTON TOWN HALL 333 CALEF ROAD BARRINGTON, NH 03825 (603) 664-0195 MARICA GASSES DIRECTOR OF PLANNING

BUILDING DEPT

BARRINGTON TOWN HALL 333 CALEF ROAD BARRINGTON, NH O3825 (603) 664-5183 THOMAS ABBOTT CODE ENFORCEMENT OFFICER

HIGHWAY AND PUBLIC WORKS HIGHWAY DEPARTMENT 226 SMOKE STREET BARRINGTON, NH 03835 (603) 664-5379 PETER COOK ROAD AGENT

POLICE DEPARTMENT 774 FRANKLIN PIERCE HIGHWAY BARRINGTON, NH 03835 (603) 664-7679 RICHARD P. CONWAY CHIEF OF POLICE

FIRE DEPARTMENT 774 FRANKLIN PIERCE HIGHWAY BARRINGTON, NH 03835 (603) 664-2241 RICHARD WALKER FIRE CHIEF

PROPERTY ABUTTERS LIST

210-42, 210-43, 210-41, 208-39, 210-48 NO LOT ID PER TOWN

TIMOTHY E. & SUSAN M. ESTES 210-54 366 LOS CERRITOS DR. VALLEJO, CA 94589

MATTHEW & MICHELLE MAGNUSSON 144 GREEN HILL RD. BARRINGTON, NH 03825

PETER & CAROL SCHRIER 138 GREENHILL RD. BARRINGTON, NH 03825

208-40.1, 208-23 ANN MARIE VITTORIO 104 HANSONVILLE ROAD BARRINGTON, NH 03825

PETER J. TESSIER 5 HANSONVILLE RD.

GDNIC, NH 03839 WILLIAM LEVESQUE 209 GREENHILL RD.

BARRINGTON, NH 03825 MARGARETHA VANAALST-BARENDREGT 21/ GREENHILL RD.

BARRINGTON, NH 03825 PROJECT LEASING INC.

PO BOX 381 BARRINGTON, NH 03825 210-4

CELIA BANNENBERG PO BOX 381 BARRINGTON, NH 03825

210-45 GREGORY & SUSAN HALL /4 HANSONVILLE ROAD BARRINGTON, NH 03825

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48 Constitution Drive, Bedford, N.H. 03110

54 HANSONVILLE RD.

LERDY & DEBRAH MYERS 2/8 GREENHILL RD. BARRINGTON, NH 03825

BARRINGTON, NH 03825

KATHLEEN RYAN

EVE & SAMUEL FAULKNER 232 GREEN HILL RD. BARRINGTON, NH 03825

JONATHAN DEWITT PO BOX 398 BARRINGTON, NH 03825

EDWARD & JEAN DOTSON 204 GREENHILL RD. BARRINGTON, NH 03825

LINDA K. & RUSSELL V. BRACKETT 198 GREEN HILL RD. BARRINGTON, NH 03825

219-70 GUILIO & NORMA FRANCESCHINI 188 GREEN HILL RD. BARRINGTON, NH 03825

ELIZABETH DORAN HEALEY 15 CAHOON WAY BARRINGTON, NH 03825

259-/5 DANA L. SR. & RACHEL J. JOY 116 HANSONVILLE RD. ROCHESTER, NH 03839-4930

259-74 ROBIN H. SMITH & HARRY E. PROULX / JESSICA DR.

ROCHESTER, NH 03839-4940 259-73 MICHAEL & DOROTHY GROULX 15 JESSICA DR.

ROCHESTER, NH 03839-4940

ROBERT J. & LINDA D. SKIBICKI 122 FLAGG RD. ROCHESTER, NH 03839-4962

PHILIP L. & GERALDINE A. PARADIS REV. TR. TRUSTEES 118 FLAGG RD. RDCHESTER, NH 03839-4919

CITY OF ROCHESTER 31 WAKEFIELD ST. ROCHESTER, NH 03839

TRINITY CONSERVATION, LLC 119 FLAGG RD. ROCHESTER, NH 03839

JOHN F. & LYDIA G.M.CUPP /O CAH□□N WAY BARRINGTON, NH 03825

261-25 LEO F. & MICHELLE A. BRODEUR 29 SUGAR BROOK ROAD RUCHESTER, NH 0386/

261-24 ELLEN WENTWORTH 31 SUGAR BROOK ROAD ROCHESTER, NH 0386/

SCOTT CAFASSO & AMANDA WOOLLETT 33 SUGAR BROOK ROAD ROCHESTER, NH 0386/

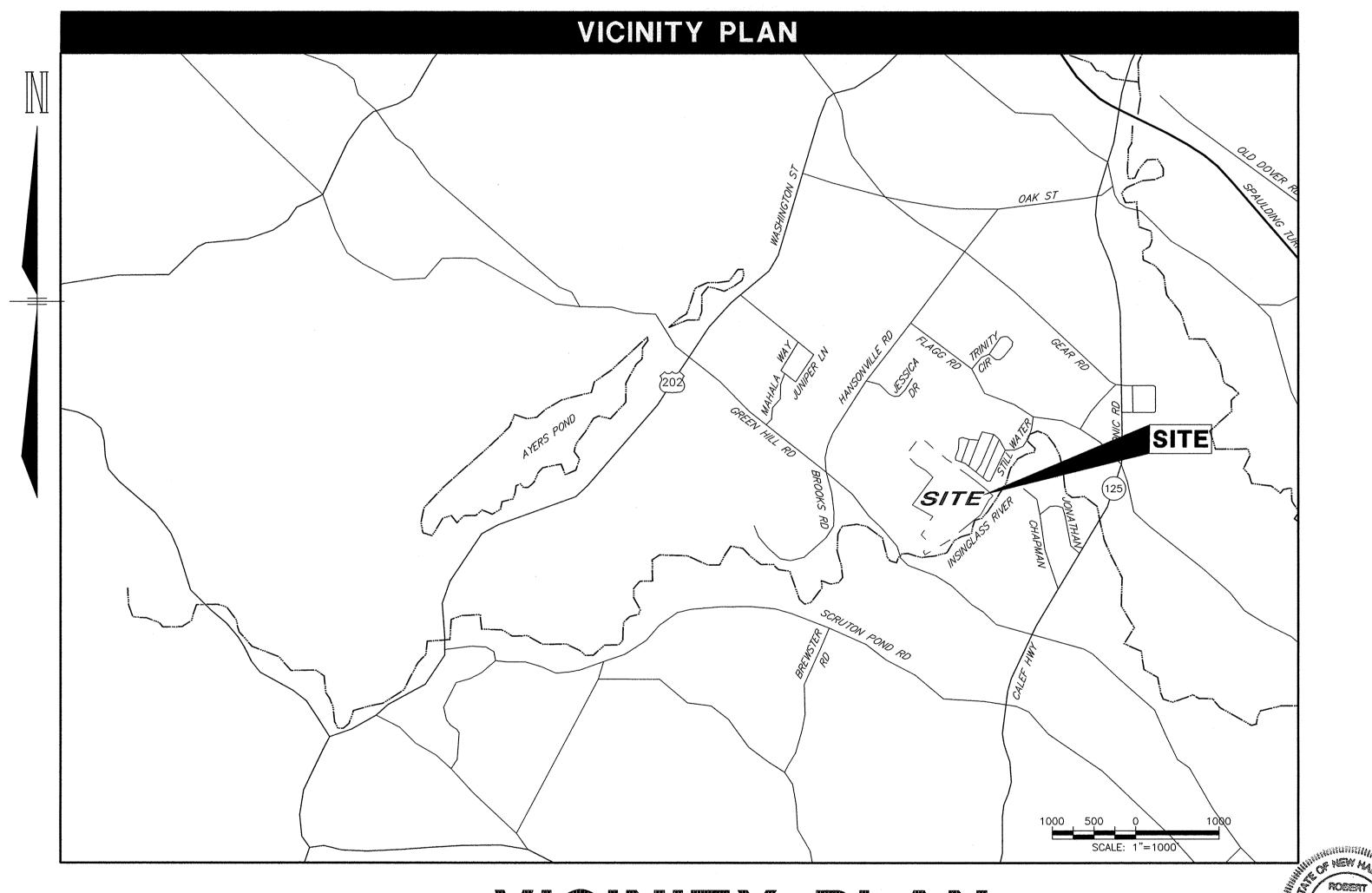
261-22 DEBORAH L. WORTH & CHRISTOPHER P. BAUGHMAN 51 STILLWATER CIRCLE ROCHESTER, NH 03869

261-21 ZVODAR FAMILY TRUST KIMBERLY A. CRAMPSEY, TRUSTEE 29 DIANE MCCAIN DRIVE BRENTWOOD, NH 03833

261-20 RODERICK J. & DONNA J. GADWAY 55 STILLWATER CIRCLE ROCHESTER, NH 03869

TRINITY CONSERVATION LLC EXCAVATION SITE

GREEN HILL ROAD BARRINGTON, NEW HAMPSHIRE



VICINITY PLAN



Civil Engineers Structural Engineers Traffic Engineers Land Surveyors Landscape Architects Scientists

6 5/30/13 REVISE SHEETS 1-9 JH JK 3 1/17/13 PER DUBOIS & KING REVIEW JH JK 1 12/10/12 ADD ABUTTER LIST JH JK DR CK

REV. DATE

DLAVAL NO. 7108

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FUTURE DEVELOPMENT PLAN

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PERMITS / APPROVALS

PENDING

PENDING

APPROVED EXPIRES

NHDES ALT. OF TERRAIN NHDES WETLANDS IMPACT

PROPERTY ABUTTERS LIST (CONTINUED)

261-19 MARGARITA SUE ALVARADO OFFICE OF PUBLIC GUARDIAN 2 PILLSBURY STREET, SUITE 400 CONCORD, NH 03301

JEFFREY SCOTT & HEATHER MARIE ROYAL 59 STILLWATER CIRCLE ROCHESTER, NH 03869

STEPHEN M. & TONYA B. LEONARD 61 STILLWATER CIRCLE ROCHESTER, NH 03869

DWAIN E. & DENISE LOZIER 63 STILLWATER CIRCLE ROCHESTER, NH 03869

THOMAS J. & NATHALIE GEARY 65 STILLWATER CIRCLE ROCHESTER, NH 03869

SITE PLAN

TAX MAP 210 LOT 57

COVER SHEET

GRAVEL EXCAVATION OPERATION GREEN HILL ROAD, BARRINGTON, NH

OWNED BY

TRINITY CONSERVATION, LLC PREPARED FOR

TRINITY CONSERVATION, LLC SCALE: AS NOTED **SEPTEMBER 20. 2012**



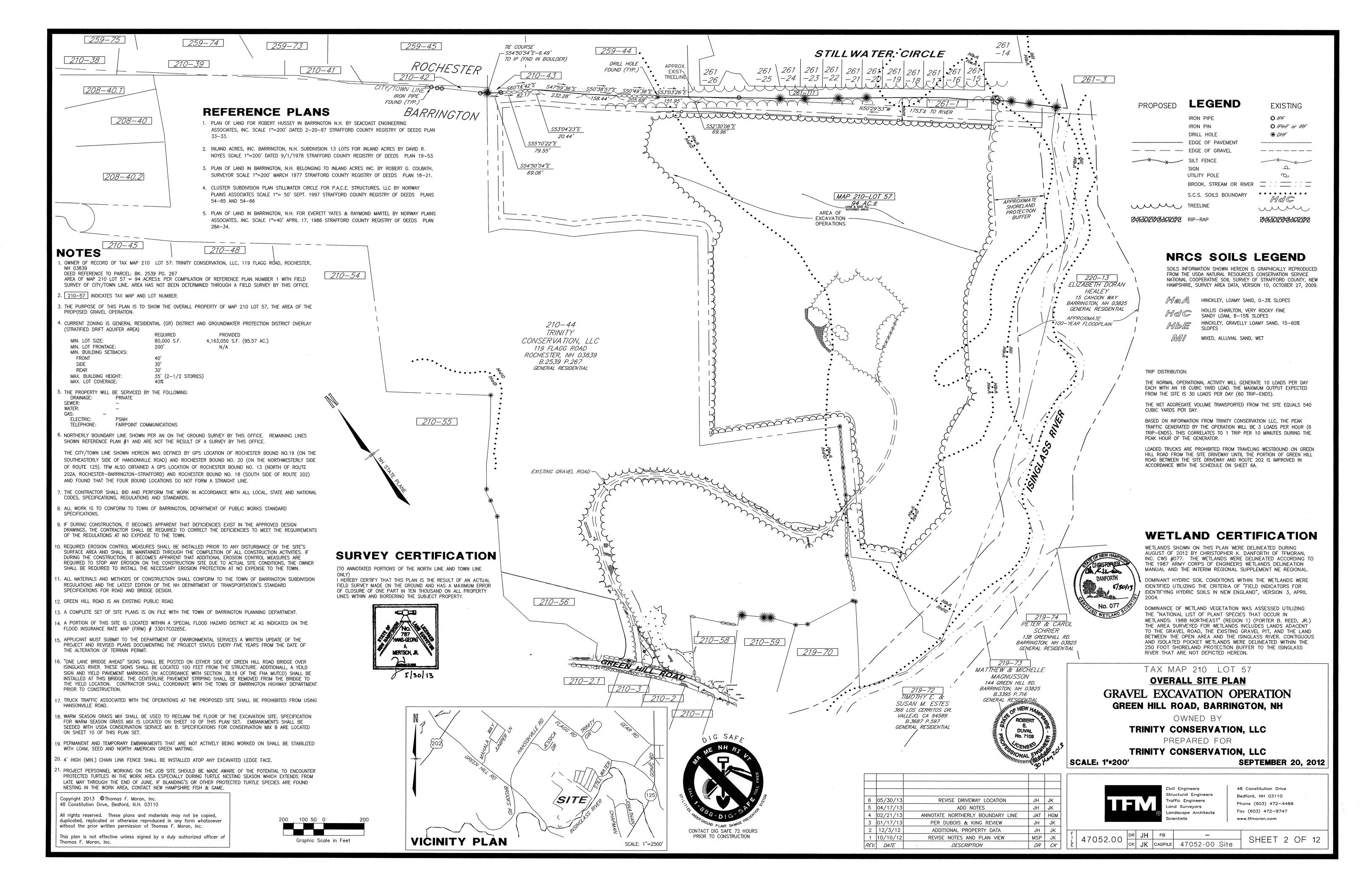
Civil Engineers Structural Engineers Traffic Engineers Land Surveyors Landscape Architects

48 Constitution Drive Bedford, NH 03110 Fax (603) 472-9747 www.tfmoran.com

DR JH FB
CK JK CADFILE SHEET 1 OF 12 47052-00 Site.dwg

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OPERATION & MAINTENANCE NOTES: . THE OPERATION IS PROPOSED TO BE RUN YEAR-ROUND, EXCLUDING MAJOR HOLIDAYS AND AS ONE STAGGERED ROW OF SUPPLEMENTAL EVERGREEN TREES OTHERWISE INDICATED IN THIS LETTER. NORMAL BUSINESS HOURS ARE PROPOSED TO BE TO MATCH EXISITNG , 5' HIGH (MIN) SPACED 10' ON CENTER MONDAY THROUGH FRIDAY FROM 8:00AM TO 5:00 PM, WHERE THE BUSINESS WILL BE OPEN TO (ON AVERAGE) THE PUBLIC. ROUTINE MAINTENANCE MAY BE PERFORMED ON THE GROUNDS ON SATURDAY FROM 8:00 AM TO 5:00 PM; HOWEVER THE BUSINESS WILL BE CLOSED TO THE PUBLIC ON SATURDAY. ROUTINE MAINTENANCE SHALL CONSIST OF CLEANING EQUIPMENT, RECLAMATION, INSPECTION AND MAINTENANCE OF STORM WATER TREATMENT AND CONVEYANCE PRACTICES, MAINTENANCE OF THE ACCESS ROADWAY AND RELATED ACTIVITIES. DRAWING AND/OR SPECIFICATION, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY FOR CLARIFICATIONS. BLASTING IS LIMITED TO ONE DAY PER TWO MONTHS. OPERATOR IS REQUIRED TO PROVIDE 48 HOURS NOTICE TO ABUTTERS IN ADVANCE OF BLASTING OPERATIONS. . THE USE OF ACOUSTICAL WALLS SHALL BE IMPLEMENTED DURING ANY CRUSHING, SOUND PROPOSED 6' TALL LEVELS SHALL BE RECORDED AT ALL PROPERTY LINES DURING CRUSHING OR USE OF MATERIALS PROCESSING EQUIPMENT. CRUSHING OR PROCESSING SHALL TEMPORARILY CEASE AND DESIST IF SOUND LEVELS EXCEED 75 DECIBELS AT THE PROPERTY LINE UNTIL ADDITIONAL SOUND MITIGATION PRACTICES ARE EMPLOYED. AND/OR LOCAL REGULATIONS. 4. BLASTING SHALL CONFORM TO THE NH DEPARTMENT OF SAFETY RULES ESTABLISHED PER SAF-C 1600. THE BLASTING CONTRACTOR WILL MONITOR GROUND VIBRATIONS PRODUCED BY EACH BLAST AND WILL PRODUCE PRINTED SEISMOGRAMS OF VIBRATIONS THAT ARE RECORDED IN UNITS OF PARTICLE VELOCITY IN INCHES/SECONDS, THESE PRINTED MEASUREMENTS WILL BE RETAINED BY THE BLASTING CONTRACTOR FOR A PERIOD THROUGH THE NEXT COMPLETED COMPLIANCE HEARING BEFORE THE PLANNING BOARD AND WILL BE AVAILABLE TO TOWN AND STATE OFFICIALS UPON REQUEST.. BLASTING SHALL TEMPORARILY CEASE IF VIBRATION LEVELS EXCEED A PEAK OF 0.15 INCHES/SECOND ALONG THE CITY OF ROCHESTER PROPERTY LINE UNTIL ADDITIONAL VIBRATION MITIGATION PRACTICES ARE EMPLOYED. 8. IF CONDITIONS AT THE SITE ARE DIFFERENT THAN SHOWN ON THE PLANS, THE ENGINEER SHALL BE NOTIFIED 5. DUST CONTROL WILL BE IMPLEMENTED AS NEEDED ONCE SITE GRADING HAS BEGUN AND DURING WINDY CONDITIONS (FORECASTED OR ACTUAL WIND CONDITIONS OF 20 MPH OR GREATER) WHILE SITE GRADING IS OCCURRING. SPRAYING OF POTABLE WATER AT A RATE OF 300 GALLONS PER ACRE OR LESS WILL BE PERFORMED BY A MOBILE PRESSURE—TYPE DISTRIBUTOR TRUCK NO MORE THAN THREE TIMES A DAY DURING THE MONTHS OF MAY THRU SEPTEMBER AND ONCE PER DAY DURING THE MONTHS OF OCTOBER THRU APRIL OR WHENEVER THE DRYNESS OF THE SOIL WARRANTS IT. APPROXIMA'TE 5. OPERATOR SHALL FOLLOW INSTALLATION AND MAINTENANCE SCHEDULE DETAILED IN THE PROTECTION STORMWATER POLLUTION PREVENTION PLAN (SWPPP) DURING EXCAVATION ACTIVITIES, AND SHALL PREPARE AND POSSESS ON SITE AN OPERATIONS PLAN INCLUDING BUT NOT LIMITED SPILL MAP 210-LOT 57 PREVENTION, CONTROL AND COUNTERMEASURES TO CONTROL THE USE AND STORAGE OF REGULATED SUBSTANCES. COPIES OF THE SWPPP INSPECTION AND MAINTENANCE LOGS SHALL BE KEPT ONSITE AT ALL TIMES. THESE LOGS SHALL BE AVAILABLE UPON REQUEST BY THE IRLAC FOR A QUARTERLY REVIEW. THE ISINGLASS RIVER LOCAL ADVISORY COMMITTEE SHALL BE NOTIFIED OF AND ALLOWED TO ATTEND ANY SWPPP INSPECTION. **BLASTING BMP's** IDENTIFY DRINKING WATER WELLS LOCATED WITHIN 2000 FEET OF THE PROPOSED BLASTING ACTIVITIES. DEVELOP A GROUNDWATER QUALITY SAMPLING PROGRAM TO MONITOR FOR NITRATE AND NITRITE EITHER IN THE DRINKING WATER SUPPLY WELLS OR IN OTHER WELLS THAT ARE REPRESENTATIVE OF THE DRINKING WATER SUPPLY WELLS IN THE AREA. THE PLAN MUST INCLUDE PRE AND POST BLAST WATER QUALITY MONITORING AND BE APPROVED BY NHDES PRIOR TO INITIATING BLASTING. THE GROUNDWATER SAMPLING PROGRAM MUST BE IMPLEMENTED ONCE 2) THE FOLLOWING BEST MANAGEMENT PROCEDURES FOR BLASTING SHALL BE COMPLIED WITH:) LOADING PRACTICES. THE FOLLOWING BLASTHOLE LOADING PRACTICES TO MINIMIZE ÈNVIRONMENTAL EFFECTS SHALL BE FOLLOWED: (A) DRILLING LOGS SHALL BE MAINTAINED BY THE DRILLER AND COMMUNICATED DIRECTLY TO HE BLASTER. THE LOGS SHALL INDICATE DEPTHS AND LENGTHS OF VOIDS, CAVITIES, AND FAULT ZONES OR OTHER WEAK ZONES ENCOUNTERED AS WELL AS GROUNDWATER CONDITIONS. (B) EXPLOSIVE PRODUCTS SHALL BE MANAGED ON—SITE SO THAT THEY ARE EITHER USED IN THE BOREHOLE, RETURNED TO THE DELIVERY VEHICLE, OR PLACED IN SECURE CONTAINERS FOR (C) SPILLAGE AROUND THE BOREHOLE SHALL EITHER BE PLACED IN THE BOREHOLE OR CLEANED IP AND RETURNED TO AN APPROPRIATE VEHICLE FOR HANDLING OR PLACEMENT IN SECURED CONTAINERS FOR OFF-SITE DISPOSAL. 1.5:1 LEDGE, (D) LOADED EXPLOSIVES SHALL BE DETONATED AS SOON AS POSSIBLE AND SHALL NOT BE LEFT FACE THE BLASTHOLES OVERNIGHT, UNLESS WEATHER OR OTHER SAFETY CONCERNS REASONABLY SEE NOTE DICTATE THAT DETONATION SHOULD BE POSTPONED. (E) LOADING EQUIPMENT SHALL BE CLEANED IN AN AREA WHERE WASTEWATER CAN BE #20 ON PROPERLY CONTAINED AND HANDLED IN A MANNER THAT PREVENTS RELEASE OF CONTAMINANTS SHEET 2 (F) EXPLOSIVES SHALL BE LOADED TO MAINTAIN GOOD CONTINUITY IN THE COLUMN LOAD TO PROMOTE COMPLETE DETONATION. INDUSTRY ACCEPTED LOADING PRACTICES FOR PRIMING, STEMMING, DECKING AND COLUMN RISE NEED TO BE ATTENDED TO. (2) EXPLOSIVE SELECTION. THE FOLLOWING BMPS SHALL BE FOLLOWED TO REDUCE THE OTENTIAL FOR GROUNDWATER CONTAMINATION WHEN EXPLOSIVES ARE USED: (A) EXPLOSIVE PRODUCTS SHALL BE SELECTED THAT ARE APPROPRIATE FOR SITE CONDITIONS AND SAFE BLAST EXECUTION. (B) EXPLOSIVE PRODUCTS SHALL BE SELECTED THAT HAVE THE APPROPRIATE WATER RESISTANCE FOR THE SITE CONDITIONS PRESENT TO MINIMIZE THE POTENTIAL FOR HAZARDOUS EFFECT OF THE PRODUCT UPON GROUNDWATER. PREVENTION OF MISFIRES. APPROPRIATE PRACTICES SHALL BE DEVELOPED AND IMPLEMENTE O PREVENT MISFIRES. (4) MUCK PILE MANAGEMENT. MUCK PILES (THE BLASTED PIECES OF ROCK) AND ROCK PILES SHALL BE MANAGED IN A MANNER TO REDUCE THE POTENTIAL FOR CONTAMINATION BY IMPLEMENTING THE FOLLOWING MEASURES: (A) REMOVE THE MUCK PILE FROM THE BLAST AREA AS SOON AS REASONABLY POSSIBLE. B) MANAGE THE INTERACTION OF BLASTED ROCK PILES AND STORMWATER TO PREVENT CONTAMINATION OF WATER SUPPLY WELLS OR SURFACE WATER. SEDIMENT (5) SPILL PREVENTION MEASURES AND SPILL MITIGATION. SPILL PREVENTION AND SPILL FOREBAY 2 MITIGATION MEASURES SHALL BE IMPLEMENTED TO PREVENT THE RELEASE OF FUEL AND OTHER DEEP RELATED SUBSTANCES TO THE ENVIRONMENT. THE MEASURES SHALL INCLUDE AT A MINIMUM: SEE DETAIL (A) THE FUEL STORAGE REQUIREMENTS SHALL INCLUDE: STORAGE OF REGULATED SUBSTANCES ON AN IMPERVIOUS SURFACE; SECURE STORAGE AREAS AGAINST UNAUTHORIZED ENTRY; LABEL REGULATED CONTAINERS CLEARLY AND VISIBLY; INSPECT STORAGE AREAS WEEKLY: 5. COVER REGULATED CONTAINERS IN OUTSIDE STORAGE AREAS: B. WHEREVER POSSIBLE, KEEP REGULATED CONTAINERS THAT ARE STORED OUTSIDE MORE THAN -MOBILE 50 FEET FROM SURFACE WATER AND STORM DRAINS, 75 FEET FROM PRIVATE WELLS, AND 400 . SECONDARY CONTAINMENT IS REQUIRED FOR CONTAINERS CONTAINING REGULATED SUBSTANCES **TEMPORARY** STORED OUTSIDE, EXCEPT FOR ON PREMISE USE HEATING FUEL TANKS, OR ABOVEGROUND OR BLAST PLAN SEDIMENTATION UNDERGROUND STORAGE TANKS OTHERWISE REGULATED. B) THE FUEL HANDLING REQUIREMENTS SHALL INCLUDE: MAINTENANCE 3:1 SLOPE (TYP. (SPECIFICATIONS PROVIDED BY MAINE DRILLING & BLASTING) . EXCEPT WHEN IN USE, KEEP CONTAINERS CONTAINING REGULATED SUBSTANCES CLOSED AND PAD PATTERN (BURDEN & SPACING): 9'X 9' 2. PLACE DRIP PANS UNDER SPIGOTS, VALVES, AND PUMPS; BOREHOLE SIZE: 4" 3. HAVE SPILL CONTROL AND CONTAINMENT EQUIPMENT READILY AVAILABLE IN ALL WORK AREAS; AVG. HOLE DEPTH (CUT + SUB DRILL): 40' 4. USE FUNNELS AND DRIP PANS WHEN TRANSFERRING REGULATED SUBSTANCES: AND EXPLOSIVE TYPE: BULK EMULSION 5. PERFORM TRANSFERS OF REGULATED SUBSTANCES OVER AN IMPERVIOUS SURFACE. EXPLOSIVES LOAD: 34' Lumm. (C) THE TRAINING OF ON—SITE EMPLOYEES AND THE ON—SITE POSTING OF RELEASE RESPONSE STEMMING LOAD: 5'-8' INFORMATION DESCRIBING WHAT TO DO IN THE EVENT OF A SPILL OF REGULATED SUBSTANCES. YARDS/BOREHOLE (MINUS SUB DRILL): 111,CU/YD. TOTAL YARDS (INCLUDING SUB DRILL): 120 CU/YD. (D) FUELING AND MAINTENANCE OF EXCAVATION, EARTHMOVING AND OTHER CONSTRUCTION RELATED EQUIPMENT WILL COMPLY WITH THE REGULATIONS OF THE NEW HAMPSHIRE DEPARTMENT MAX POUNDS PER BOREHOLE: 235 24 LBS. OF ENVIRONMENTAL SERVICES [NOTE THESE REQUIREMENTS ARE SUMMARIZED IN POWDER FACTOR: 1.96 LBS. /YD. STUMP GRINDINGS BERM WD-DWGB-22-6 BEST MANAGEMENT PRACTICES FOR FUELING AND MAINTENANCE OF EXCAVATION AND SILT SOCK AND OF AND EARTHMOVING EQUIPMENT" OR ITS SUCCESSOR DOCUMENT. (SEE EROSION CONTROL . HTTP://DES.NH.GOV/ORGANIZATION/COMMISSIONER/PIP/FACTSHEETS/DWGB/DOCUMENTS/DWGB-22-6.PDF) MEASURES AS NEEDED! PHASING NOTE PLANNING BOARD APPROVAL BLOCK THE GRAVEL EXCAVATION OPERATION WILL BE PERFORMED SO AS TO ONLY DISTURB 10 ACRES AT A TIME. THE AREA COMPLETED WILL BE STABILIZED WITH GRASS PRIOR TO CLEARING, GRUBBING AND EXCAVATING OWNERS SIGNATURE THE NEXT PHASE AREA. AREAS SHOWN ARE AN EXAMPLE OF POSSIBLE PHASING, BUT THE OPERATOR MAY VARY PHASING SEQUENCE (WHILE ONLY DISTURBING 10 ACRES AT ANY GIVEN TIME). OWNER OR REPRESENTATIVE SCALE: 1'=100' DATE THE OPERATOR SHALL UPGRADE THE ENTRANCE DRIVEWAY AS SHOWN PRIOR TO BEGINNING THE GRAVEL EXCAVATION OPERATION, THEN BEGIN THE OPERATION IN THE EXISTING OPEN AREA (PHASE 1). A 200-SEDIMENTATION BASIN OR OTHER DRAINAGE SYSTEM SHALL BE PROVIDED TO TREAT RUNOFF PRIOR TO L-195. *1-190*− Copyright 2013 ©Thomas F. Moran, Inc. 48 Constitution Drive, Bedford, N.H. 03110 6 05/30/13 REVISE NOTES PER PLANNER All rights reserved. These plans and materials may not be copied, 100 50 25 0 100 duplicated, replicated or otherwise reproduced in any form whatsoever 5 04/08/13 REVISE NOTES without the prior written permission of Thomas F. Moran, Inc. 4 02/15/13 PER DUBOIS & KING REVIEW PER DUBOIS & KING REVIEW This plan is not effective unless signed by a duly authorized officer of 3 01/17/13 JH JK CONTACT DIG SAFE 72 HOURS Graphic Scale in Feet Thomas F. Moran, Inc. PRIOR TO CONSTRUCTION REV. DATE DESCRIPTION DR CK

NOTES

- 1. THE PURPOSE OF THIS PLAN IS TO SHOW PHASE1 (10 AC.) EXCAVATION OF THE SITE.
- 2. TOPOGRAPHY SHOWN IS A COMPILATION OF GROUND SURVEY BY THIS OFFICE AND INFORMATION TAKEN FROM THE REFERENCE PLAN. GROUND SURVEY DATUM IS NAD 88 COORS.
- WRITTEN DIMENSIONS HAVE PRECEDENCE OVER SCALED DIMENSIONS. THE CONTRACTOR SHALL USE CAUTION WHEN SCALING REPRODUCED PLANS. IN CASE OF CONFLICT BETWEEN THIS PLAN SET AND ANY OTHER
- 4. THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION AND FOR CONDITIONS AT THE SITE, THESE PLANS, PREPARED BY TFMORAN, INC., DO NOT EXTEND TO OR INCLUDE SYSTEMS PERTAINING TO THE SAFETY OF THE CONSTRUCTION CONTRACTOR OR THEIR EMPLOYEES. AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE SEAL OF THE SURVEYOR OR ENGINEER HEREON DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEMS THAT MAY NOW OR HEREAFTER BE INCORPORATED INTO THESE PLANS. THE CONSTRUCTION CONTRACTOR SHALL PREPARE OR OBTAIN THE APPROPRIATE SAFETY SYSTEMS WHICH MAY BE REQUIRED BY THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)
- 5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE HIMSELF WITH THE SITE AND ALL EXISTING CONDITIONS SURROUNDING IT AND THEREON. THE CONTRACTOR SHALL ADVISE THE APPROPRIATE AUTHORITY OF HIS INTENTIONS AT LEAST 48 HOURS IN ADVANCE.
- 6. THE CONTRACTOR SHALL MAINTAIN EMERGENCY ACCESS TO ALL AREAS AFFECTED BY HIS WORK AT ALL TIMES.
- 7. IN THE EVENT OF A CONFLICT BETWEEN PLANS, SPECIFICATIONS, AND DETAILS, THE ENGINEER SHALL BE
- NOTIFIED IMMEDIATELY FOR CLARIFICATION AND NOTIFICATION SHALL BE GIVEN TO THE TOWN.
- PRIOR TO PROCEEDING WITH THE AFFECTED WORK. 9. THESE PLANS WERE PREPARED UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER. TEMORAN
- INC. ASSUMES NO LIABILITY AS A RESULT OF ANY CHANGES OR NON-CONFORMANCE WITH THESE PLANS EXCEPT UPON THE WRITTEN APPROVAL OF THE ENGINEER OF RECORD.
- 10. TEMORAN INC. ASSUMES NO LIABILITY FOR WORK PERFORMED WITHOUT AN ACCEPTABLE PROGRAM OF TESTING AND INSPECTION AS APPROVED BY THE ENGINEER OF RECORD.
- WARM SEASON GRASS MIX SHALL BE USED TO RECLAIM THE FLOOR OF THE EXCAVATION SITE. SPECIFICATION FOR WARM SEASON GRASS MIX IS LOCATED ON SHEET 10 OF THIS PLAN SET. EMBANKMENTS SHALL BE SEEDED WITH USDA CONSERVATION SERVICE MIX B. SPECIFICATIONS FOR CONSERVATION MIX B ARE LOCATED ON SHEET 10 OF THIS PLAN SET. NOTICE SHALL BE GIVEN TO THE TOWN ENGINEER.
- 12. PERMANENT AND TEMPORARY EMBANKMENTS THAT ARE NOT ACTIVELY BEING WORKED ON SHALL BE STABILIZED WITH LOAM, SEED AND NORTH AMERICAN GREEN MATTING.
- 13. OPERATOR/EXCAVATOR SHALL OBSERVE WATER LEVEL IN MONITORING WELLS IN MARCH, APRIL AND OCTOBER ANNUALLY. FINAL GRADES SHALL BE AJUSTED AS NECESSARY TO PROVIDE 4 FEET (MIN.) SEPARATION ABOVE
- 14. WHERE LEDGE IS ENCOUNTERED AT DESIGN FINISH GRADE OPERATOR SHALL OVERBLAST AND BACKFILL TO DEISGN FINISH GRADES USING OVERBURDEN AND/OR OTHER MATERIAL DETERMINED BY ENGINEER. NOTICE SHALL BE GIVEN TO TOWN ENGINEER.
- 15. NO OUTSIDE MATERIAL SHALL BE INTRODUCED TO THE SITE WITHOUT PRIOR APPROVAL BY THE OPERATOR'S ENVIRONMENTAL CONSULTANT AND NOTIFICATION PROVIDED TO THE TOWN OF BARRINGTON LAND USE OFFICE.
- 16. OPERATOR SHALL PROVIDE A COPY OF THE NHDES APPROVED GROUND WATER QUALITY SAMPLING PROGRAM
- PRIOR TO COMMENSMENT OF BLASETING.
- 17. TRUCKS ARE PROHIBITED FROM STACKING PRIOR TO 7:45 A.M.
- ALL TRUCKS OR TRACTOR TRAILORS WITH A GROSS VEHICLE WEIGHT EXCEEDING 26,100 LBS SHALL ACCESS AND EXIT THE SITE FROM THE EASTERLY PORTION OF GREEN HILL ROAD.
- 19. ALL LOADED TRUCKS ENTERING AND EXITING THE SITE SHALL BE WEIGHED BY A CERTIFIED SCALE AND ALL MATERIALS ARE TO BE SOLD BY WEIGHT/VOLUME.



WETLAND CERTIFICATION

WETLANDS SHOWN ON THIS PLAN WERE DELINEATED DURING AUGUST OF 2012 BY CHRISTOPHER K. DANFORTH OF TFMORAN. INC. CWS #077. THE WETLANDS WERE DELINEATED ACCORDING TO THE 1987 ARMY CORPS OF ENGINEERS WETLANDS DELINEATION MANUAL AND THE INTERIM REGIONAL SUPPLEMENT NE REGIONAL

DOMINANT HYDRIC SOIL CONDITIONS WITHIN THE WETLANDS WERE IDENTIFIED UTILIZING, THE CRITERIA OF "FIELD INDICATORS FOR IDENTIFYING HYDRIC SOILS IN NEW ENGLAND", VERSION 3, APRIL

DOMINANCE OF WETLAND VEGETATION WAS ASSESSED UTILIZING THE "NATIONAL LIST OF PLANT SPECIES THAT OCCUR IN WETLANDS: 1988 NORTHEAST" (REGION 1) (PORTER B. REED. JR.) THE AREA SURVEYED FOR WETLANDS INCLUDES LANDS ADACENT TO THE GRAVEL ROAD, THE EXISTING GRAVEL PIT, AND THE LAND BETWEEN THE OPEN AREA AND THE ISINGLASS RIVER. CONTIGUOUS AND ISOLATED POCKET WETLANDS WERE DELINEATED WITHIN THE 250 FOOT SHORELAND PROTECTION BUFFER TO THE ISINGLASS RIVER THAT ARE NOT DEPICTED HEREON.

TAX MAP 210 LOT 57

PHASE 1 GRADING PLAN GRAVEL EXCAVATION OPERATION GREEN HILL ROAD, BARRINGTON, NH

OWNED BY

TRINITY CONSERVATION, LLC PREPARED FOR

TRINITY CONSERVATION, LLC

SEPTEMBER 20, 2012

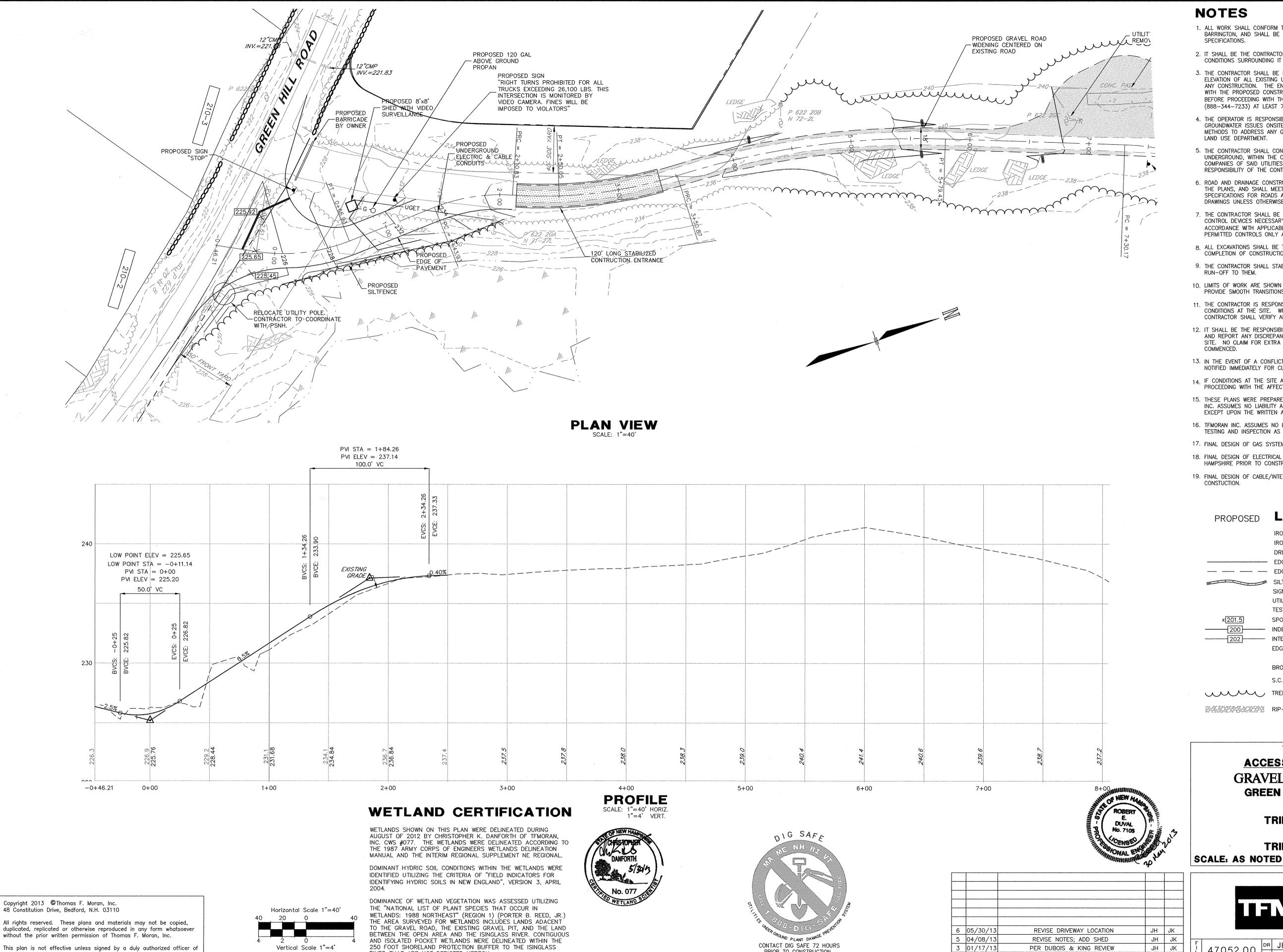


Structural Engineer Traffic Engineers Land Surveyors Landscape Architects

48 Constitution Drive Bedford, NH 03110 Phone (603) 472-4488 Fax (603) 472-9747 www.tfmoran.com

SHEET 3 OF 12

DR JH FB CK JK CADFILE 47052-00 Site



RIVER THAT ARE NOT DEPICTED HEREON.

PRIOR TO CONSTRUCTION

REV. DATE

DESCRIPTION

NOTES

- 1. ALL WORK SHALL CONFORM TO THE APPLICABLE REGULATIONS AND STANDARDS OF THE TOWN OF BARRINGTON, AND SHALL BE BUILT IN A WORKMANLIKE MANNER IN ACCORDANCE WITH THE PLANS AND
- 2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE HIMSELF WITH THE SITE AND ALL EXISTING CONDITIONS SURROUNDING IT AND THEREON.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AND DETERMINING THE LOCATION. SIZE AND ELEVATION OF ALL EXISTING UTILITIES, SHOWN OR NOT SHOWN ON THESE PLANS. PRIOR TO THE START OF ANY CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY UTILITIES FOUND INTERFERING WITH THE PROPOSED CONSTRUCTION AND APPROPRIATE REMEDIAL ACTION BE AGREED TO BY THE ENGINEER BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT "DIGSAFE" (888-344-7233) AT LEAST 72 HOURS BEFORE DIGGING.
- 4. THE OPERATOR IS RESPONSIBLE FOR CONTACTING A GEOTECHNICAL ENGINEER TO EVALUATE ANY GROUNDWATER ISSUES ONSITE. THE GEOTECHNICAL ENGINEER IS RESPONSIBLE FOR DETERMINING THE METHODS TO ADDRESS ANY GROUNDWATER ISSUES. NOTICE OF ANY ISSUES SHALL BE GIVEN TO THE TOWN LAND USE DEPARTMENT.
- 5. THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES OWNING UTILITIES, EITHER OVERHEAD OR UNDERGROUND, WITHIN THE CONSTRUCTION AREA AND SHALL COORDINATE AS NECESSARY WITH THE UTILITY COMPANIES OF SAID UTILITIES. THE PROTECTION OR RELOCATION OF UTILITIES IS ULTIMATELY THE RESPONSIBILITY OF THE CONTRACTOR.
- 6. ROAD AND DRAINAGE CONSTRUCTION SHALL CONFORM TO THE TYPICAL SECTIONS AND DETAILS SHOWN ON THE PLANS, AND SHALL MEET LOCAL STANDARDS AND THE REQUIREMENTS OF THE LATEST NHDOT STANDARD SPECIFICATIONS FOR ROADS AND BRIDGE CONSTRUCTION AND THE N.H.D.O.T. STANDARD STRUCTURE DRAWINGS UNLESS OTHERWISE NOTED.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING ALL EROSION AND SEDIMENT CONTROL DEVICES NECESSARY TO CONTROL EROSION THROUGHOUT THE DURATION OF THE PROJECT IN ACCORDANCE WITH APPLICABLE NHDES/EPA STANDARDS. THE DETAILS PROVIDED REPRESENT MINIMUM PERMITTED CONTROLS ONLY AND SHALL BE SUPPLEMENTED BY THE CONTRACTOR AS NECESSARY.
- 8. ALL EXCAVATIONS SHALL BE THOROUGHLY SECURED ON A DAILY BASIS BY THE CONTRACTOR AT THE COMPLETION OF CONSTRUCTION OPERATIONS IN THE IMMEDIATE AREA.
- 9. THE CONTRACTOR SHALL STABILIZE ALL DITCHES, SWALES, AND PONDS PRIOR TO DIRECTING STORM WATER
- 10. LIMITS OF WORK ARE SHOWN AS APPROXIMATE. THE CONTRACTOR SHALL COORDINATE ALL WORK TO PROVIDE SMOOTH TRANSITIONS. THIS INCLUDES GRADING, PAVEMENT, CURBING, SIDEWALKS AND ALIGNMENTS.
- 11. THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION AND FOR THE CONDITIONS AT THE SITE. WRITTEN DIMENSIONS HAVE PRECEDENCE OVER SCALED DIMENSIONS. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND REPORT DISCREPANCIES TO THE ENGINEER.
- 12. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CHECK THE ACCURACY OF THE TOPOGRAPHY AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO ANY EARTHWORK BEING PERFORMED ON THE SITE. NO CLAIM FOR EXTRA WORK WILL BE CONSIDERED FOR PAYMENT AFTER EARTHWORK HAS
- 13. IN THE EVENT OF A CONFLICT BETWEEN PLANS, SPECIFICATIONS, AND DETAILS, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY FOR CLARIFICATION.
- 14. IF CONDITIONS AT THE SITE ARE DIFFERENT THAN SHOWN THE ENGINEER SHALL BE NOTIFIED PRIOR TO PROCEEDING WITH THE AFFECTED WORK.
- 15. THESE PLANS WERE PREPARED UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER. TFMORAN INC. ASSUMES NO LIABILITY AS A RESULT OF ANY CHANGES OR NON-CONFORMANCE WITH THESE PLANS EXCEPT UPON THE WRITTEN APPROVAL OF THE ENGINEER OF RECORD.
- 16. TFMORAN INC. ASSUMES NO LIABILITY FOR WORK PERFORMED WITHOUT AN ACCEPTABLE PROGRAM OF TESTING AND INSPECTION AS APPROVED BY THE ENGINEER OF RECORD.
- 17. FINAL DESIGN OF GAS SYSTEM SHALL BE DETERMINED BY GAS COMPANY PRIOR TO CONSTRUCTION.
- 18. FINAL DESIGN OF ELECTRICAL CONDUIT SHALL BE DETERMINED BY PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE PRIOR TO CONSTRUCTION.
- 19. FINAL DESIGN OF CABLE/INTERNET CONDUIT SHALL BE DETERMINED BY METROCAST CABLEVISION PRIOR TO

PROPOSED	LEGEND	EXISTING
	IRON PIPE	O IPF
	IRON PIN	O IPINF or IRF
	DRILL HOLE	OHF
	EDGE OF PAVEMENT	$a_{11} + c_{12} + c_{13} + c$
	EDGE OF GRAVEL	decompleted fractionary exercises observable commonths controlled with the
	SILT SOCK/STUMP GRINDING	GS_BERM
	SIGN	ana Davis
	UTILITY POLE	TP (C)
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x201.5	SPOT GRADE	×200.5
200 202	INDEX CONTOUR	
	INTERMEDIATE CONTOUR	. Al
	EDGE OF WETLAND	Mr. H. M. Mr. Mr.
	BROOK, STREAM OR RIVER	
	S.C.S. SOILS BOUNDARY	Malc
	TREELINE	
6488686	RIP-RAP	\$482588600

TAX MAP 210 LOT 57

ACCESS ROADWAY PLAN & PROFILE GRAVEL EXCAVATION OPERATION GREEN HILL ROAD, BARRINGTON, NH

OWNED BY

TRINITY CONSERVATION, LLC

PREPARED FOR

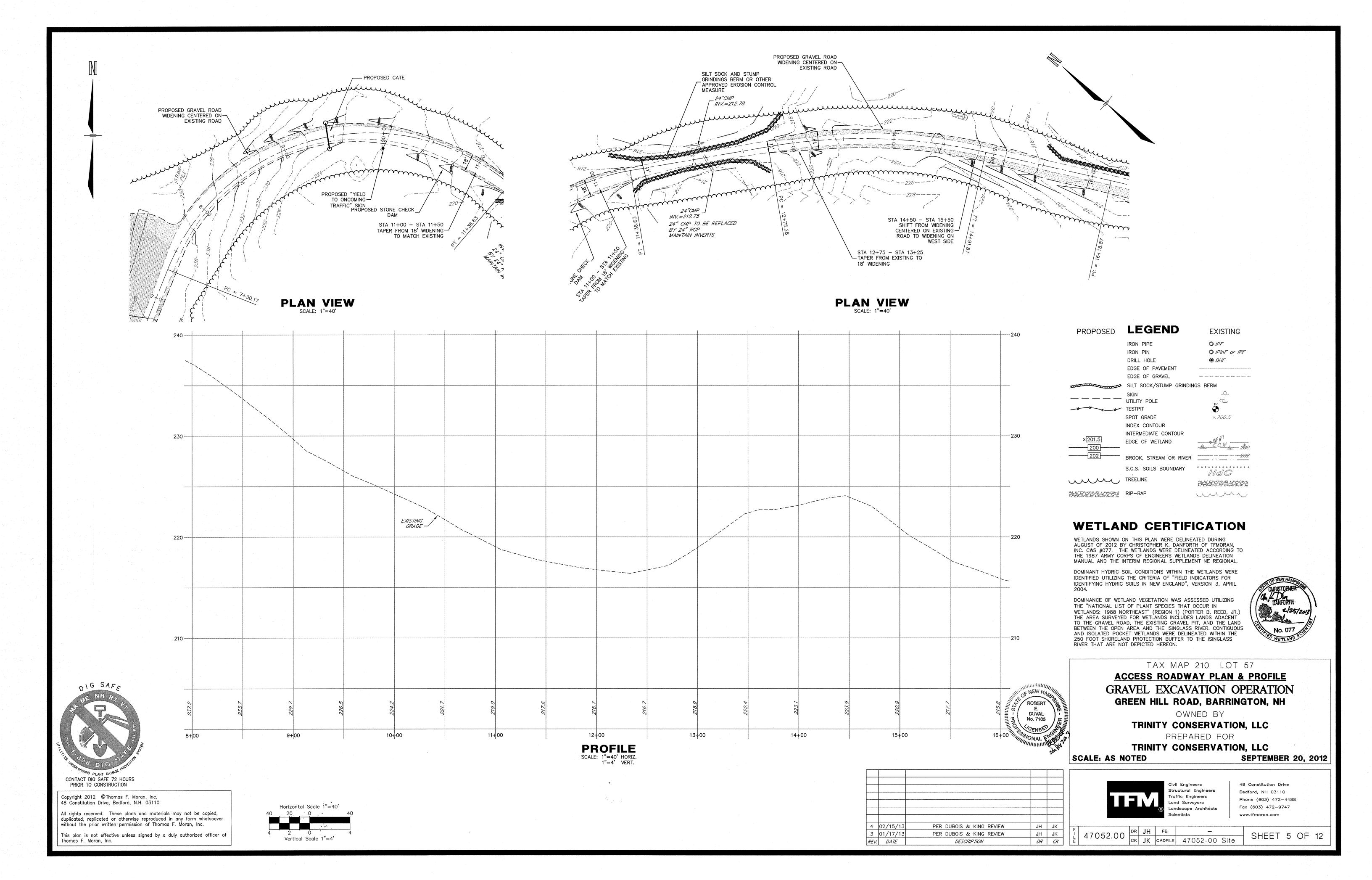
TRINITY CONSERVATION, LLC

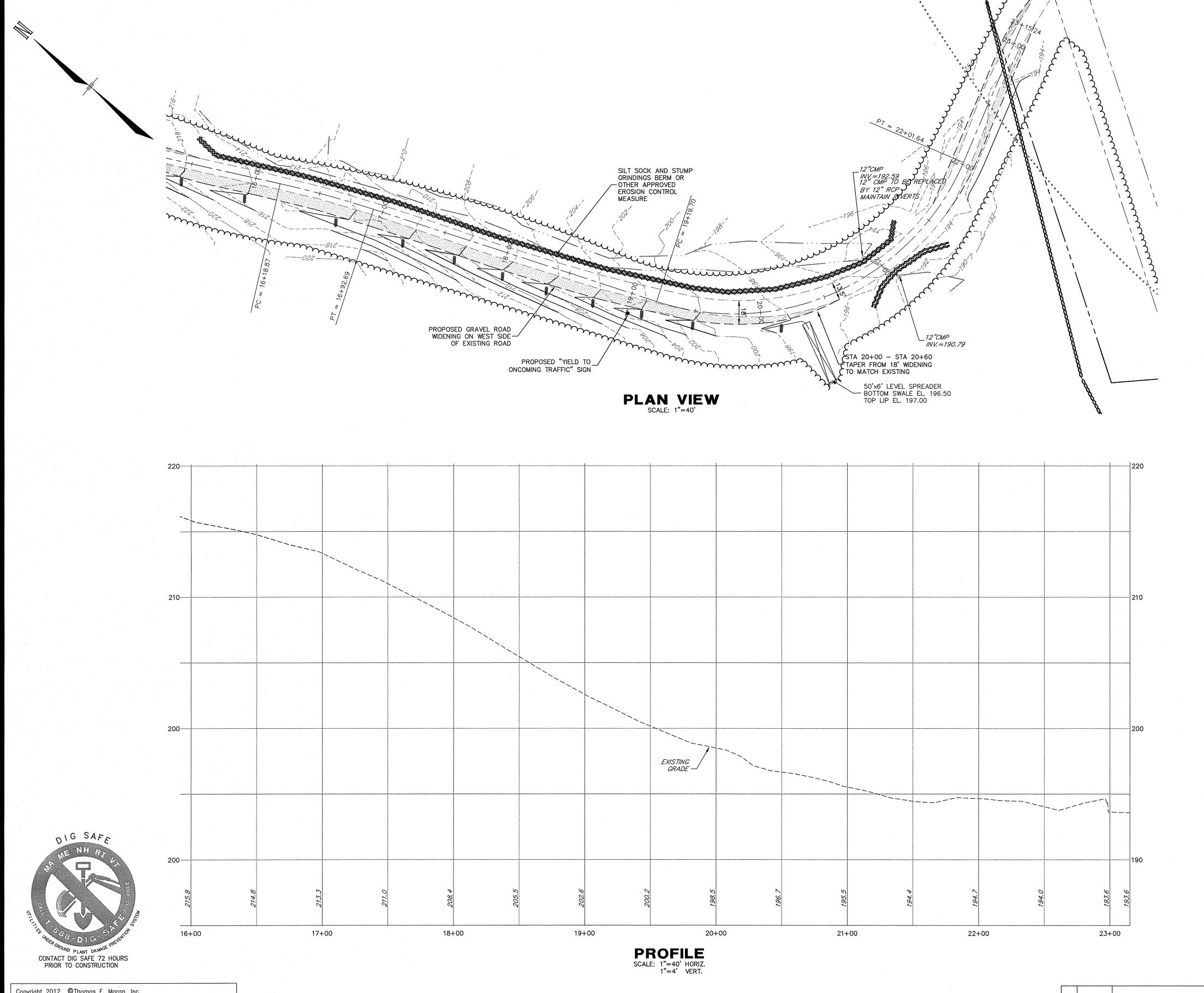
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SHEET 4 OF 12





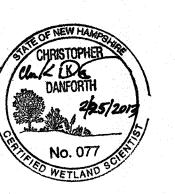
LEGEND EXISTING IRON PIPE \bigcirc IPF IRON PIN O IPinF or IRF DRILL HOLE OHF ----- EDGE OF PAVEMENT — — — EDGE OF GRAVEL SILT SOCK/STUMP GRINDINGS BERM SIGN UTILITY POLE **TESTPIT** SPOT GRADE ×200.5 200 INDEX CONTOUR EDGE OF WETLAND BROOK, STREAM OR RIVER S.C.S. SOILS BOUNDARY Hd© TREELINE 学体系を受験を対象 RIP-RAP 3488434848

WETLAND CERTIFICATION

WETLANDS SHOWN ON THIS PLAN WERE DELINEATED DURING AUGUST OF 2012 BY CHRISTOPHER K. DANFORTH OF TEMORAN, INC. CWS #077. THE WETLANDS WERE DELINEATED ACCORDING TO THE 1987 ARMY CORPS OF ENGINEERS WETLANDS DELINEATION MANUAL AND THE INTERIM REGIONAL SUPPLEMENT NE REGIONAL.

DOMINANT HYDRIC SOIL CONDITIONS WITHIN THE WETLANDS WERE IDENTIFIED UTILIZING THE CRITERIA OF "FIELD INDICATORS FOR IDENTIFYING HYDRIC SOILS IN NEW ENGLAND", VERSION 3, APRIL

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TAX MAP 210 LOT 57

ACCESS ROADWAY PLAN & PROFILE GRAVEL EXCAVATION OPERATION GREEN HILL ROAD, BARRINGTON, NH

OWNED BY

TRINITY CONSERVATION, LLC PREPARED FOR

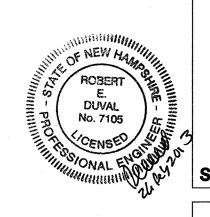
TRINITY CONSERVATION, LLC SCALE: AS NOTED SEPTEMBER 20, 2012



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DR JH FB

SHEET 6 OF 12 CK JK CADFILE 47052-00 Site



JH JK

DR CK

PER DUBOIS & KING REVIEW

PER DUBOIS & KING REVIEW

DESCRIPTION

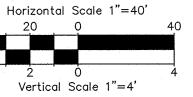
4 02/15/13 3 01/17/13

REV. DATE

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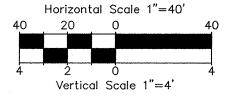
1 maring 100000 7 - - 222 - - - 224 - - - -GREEN HILL ROAD 769 605 -- = = -212 ر مصصح · Comments SEE NOTE 1 301' SIGHT LINE OFF PAVEMENT E. G. DIG SAFF -2+00 -1+000+00 1+00 2+00 *3+00*

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UND PLANT DAMAGE CONTACT DIG SAFE 72 HOURS PRIOR TO CONSTRUCTION

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PROFILE SCALE: 1"=40' HORIZ. 1"=4' VERT.

6 05/30/1 REVISE DRIVEWAY LOCATION 5 04/11/13 ADD VERTICAL CURVE JH JK 4 02/15/13 PER DUBOIS & KING REVIEW JH JK REV. DATE **DESCRIPTION** DR CK

GREEN HILL ROAD DEVELOPER AGREEMENT

THE DEVELOPER HAS AGREED WITH THE PLANNING BOARD TO CERTAIN IMPROVEMENTS TO GREEN HILL ROAD WHICH ARE REQUIRED TO BE COMPLETED AT THE EXPENSE OF THE DEVELOPER PRIOR TO THE COMMENCING OF COMMERCIAL SITE OPERATION. THE DEVELOPER WILL MEET WITH THE BOARD OF SELECTMEN TO FINALIZE THE SCHEDULE OF IMPROVEMENTS TO GREEN HILL ROAD, INCLUDING ANY BONDING NECESSARY:

SECTION 1: NH ROUTE 125 TO #61 GREEN HILL ROAD

APPROXIMATE LENGTH: 1400' CONSTRUCT FULL BOX TO TOWN SPECIFICATIONS (4" PAVED, 6" CRUSHED GRAVEL, 12" BANK RUN) CONSTRUCT WOVEN GEOTEXTILE UNDERLAYMENT CLEAN/REGRADE DITCHES (ALONG NORTH SIDE)

REPLACE EXISTING DRIVEWAY CULVERTS REQUIRED SHOULDER WIDTH (FULL BOX RECONSTRUCTION) = 2 FEET (P COOK)

SECTION 2: #61 GREEN HILL ROAD TO #144 GREEN HILL ROAD APPROXIMATE LENGTH: 1700' SHIM EXISTING PAVEMENT

CONSTRUCT 1 1/2" WEARING COURSE OVERLAY

SECTION 3: #144 GREEN HILL ROAD TO SEAVEY BRIDGE ROAD. APPROXIMATE LENGTH: 1200' CUT / REMOVE EXISTING PAVEMENT APPROX 19' SOUTH OF CENTERLINE (REMOVING OUTERMOST 3') CONSTRUCT UNDERDRAIN AND REPLACE GRAVELS AND BASE COURSE PAVEMENT ON 3'SECTION CONSTRUCT 1 1/2" WEARING COURSE OVERLAY OVER FULL WIDTH CLEAN/REGRADE DITCHES (ALONG SOUTH SIDE)

ANALYZE EXISTING CULVERT TO DETERMINE NEED FOR REPLACEMENT SECTION 4A: SEAVEY BRIDGE ROAD TO SITE DRIVEWAY APPROXIMATE LENGTH: 1000'

SHIM EXISTING PAVEMENT CONSTRUCT 1 1/2" WEARING COURSE OVERLAY

GREEN HILL ROAD WESTBOUND IMPROVEMENT SCHEDULE

SECTION 4B: SITE DRIVEWAY TO BROOKS ROAD APPROXIMATE LENGTH: 2200' SHIM EXISTING PAVEMENT CONSTRUCT 1 1/2" WEARING COURSE OVERLAY

SECTION 5: BROOKS ROAD TO #336 GREENHILL ROAD APPROXIMATE LENGTH: 500' GRIND/ RECLAIM EXISTING PAVEMENT (4" DEPTH) CONSTRUCT 4" BITUMINOUS PAVEMENT (BINDER PLUS WEARING COURSE) REPLACE EXISTING ROAD CULVERT (ROW WIDTH = 66 FEET)

SECTION 6: #336 GREENHILL ROAD TO #348 GREENHILL ROAD APPROXIMATE LENGTH: 400' SHIM EXISTING PAVEMENT

SECTION 7: #348 GREENHILL ROAD TO MAHALA DRIVE APPROXIMATE LENGTH: 1300' GRIND/ RECLAIM EXISTING PAVEMENT (4" DEPTH) CONSTRUCT 4" BITUMINOUS PAVEMENT (BINDER PLUS WEARING COURSE) CLEAN/ REGRADE DITCH (SOUTH SIDE)

SECTION 8: MAHALA DRIVE TO #513 GREEN HILL ROAD APPROXIMATE LENGTH: 3500' SHIM EXISTING PAVEMENT CONSTRUCT 1 1/2" WEARING COURSE OVERLAY CLEAN/REGRADE DITCHES (NORTH AND SOUTH)

CONSTRUCT 1 1/2" WEARING COURSE OVERLAY

SECTION 9: #513 GREEN HILL ROAD TO US202 APPROXIMATE LENGTH: 350' WIDEN ROAD / CONSTRUCT 2 1/2" BINDER COURSE PAVEMENT ALONG SOUTHERN EDGE (2' WIDENING) SHIM EXISTING PAVEMENT CONSTRUCT 1 1/2" WEARING COURSE OVERLAY EXTEND EXISTING 15" RCP AND PROVIDE MRM HEADWALL (SOUTH) CONSTRUCT STONE INLET SEDIMENT BASIN (SOUTH)

NOTE

. SIGHT DISTANCE HAS BEEN EVALUATED IN ACCORDANCE WITH AASHTO CRITERIA. CRIITICAL SIGHT LINE IS FOR A LEFT-TURNING VEHICLE, LOOKING RIGHT.

> **LEGEND** EXISTING O IPF IRON PIPE O IPINF or IRF IRON PIN DRILL HOLE O DHF EDGE OF PAVEMENT 200 EDGE OF GRAVEL 202 SIGN CO UTILITY POLE SPOT GRADE ×200.5 INDEX CONTOUR INTERMEDIATE CONTOUR signature automotio successive eventiques avaitables environes

> > TAX MAP 210 LOT 57

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48 Constitution Drive

SIGHTLINE PLAN & PROFILE

TREELINE

GRAVEL EXCAVATION OPERATION GREEN HILL ROAD, BARRINGTON, NH

OWNED BY

TRINITY CONSERVATION, LLC PREPARED FOR

TRINITY CONSERVATION, LLC

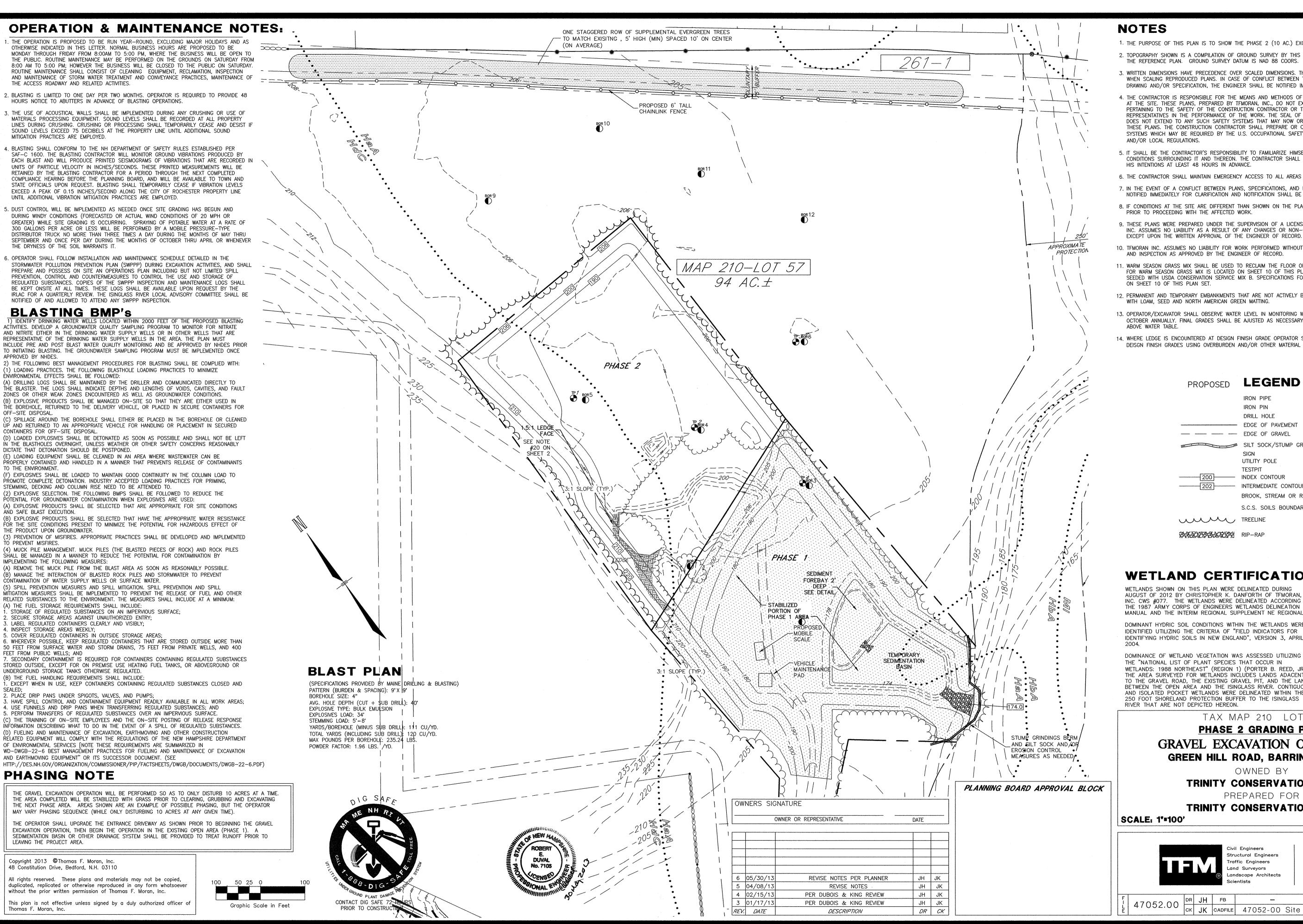
JANUARY 30, 2013 SCALE: AS NOTED



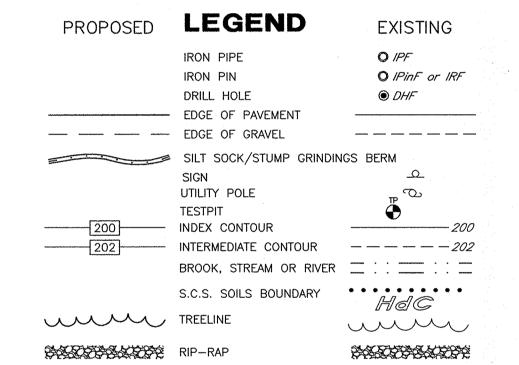
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DR JH FB SHEET 6A OF 12 CK JK CADFILE 47052-00 Site



- 1. THE PURPOSE OF THIS PLAN IS TO SHOW THE PHASE 2 (10 AC.) EXCAVATION OF THE SITE.
- 2. TOPOGRAPHY SHOWN IS A COMPILATION OF GROUND SURVEY BY THIS OFFICE AND INFORMATION TAKEN FROM THE REFERENCE PLAN. GROUND SURVEY DATUM IS NAD 88 COORS.
- 3. WRITTEN DIMENSIONS HAVE PRECEDENCE OVER SCALED DIMENSIONS. THE CONTRACTOR SHALL USE CAUTION WHEN SCALING REPRODUCED PLANS. IN CASE OF CONFLICT BETWEEN THIS PLAN SET AND ANY OTHER DRAWING AND/OR SPECIFICATION, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY FOR CLARIFICATIONS.
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- 5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE HIMSELF WITH THE SITE AND ALL EXISTING CONDITIONS SURROUNDING IT AND THEREON. THE CONTRACTOR SHALL ADVISE THE APPROPRIATE AUTHORITY OF HIS INTENTIONS AT LEAST 48 HOURS IN ADVANCE.
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- 12. PERMANENT AND TEMPORARY EMBANKMENTS THAT ARE NOT ACTIVELY BEING WORKED ON SHALL BE STABILIZED WITH LOAM, SEED AND NORTH AMERICAN GREEN MATTING.
- 13. OPERATOR/EXCAVATOR SHALL OBSERVE WATER LEVEL IN MONITORING WELLS DURING MARCH, APRIL, AND OCTOBER ANNUALLY. FINAL GRADES SHALL BE AJUSTED AS NECESSARY TO PROVIDE 4 FEET (MIN.) SEPARATION
- 14. WHERE LEDGE IS ENCOUNTERED AT DESIGN FINISH GRADE OPERATOR SHALL OVERBLAST AND BACKFILL TO DEISGN FINISH GRADES USING OVERBURDEN AND/OR OTHER MATERIAL DETERMINED BY ENGINEER.



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RIVER THAT ARE NOT DEPICTED HEREON. TAX MAP 210 LOT 57

PHASE 2 GRADING PLAN

GRAVEL EXCAVATION OPERATION GREEN HILL ROAD, BARRINGTON, NH

OWNED BY

TRINITY CONSERVATION, LLC PREPARED FOR

TRINITY CONSERVATION. LLC

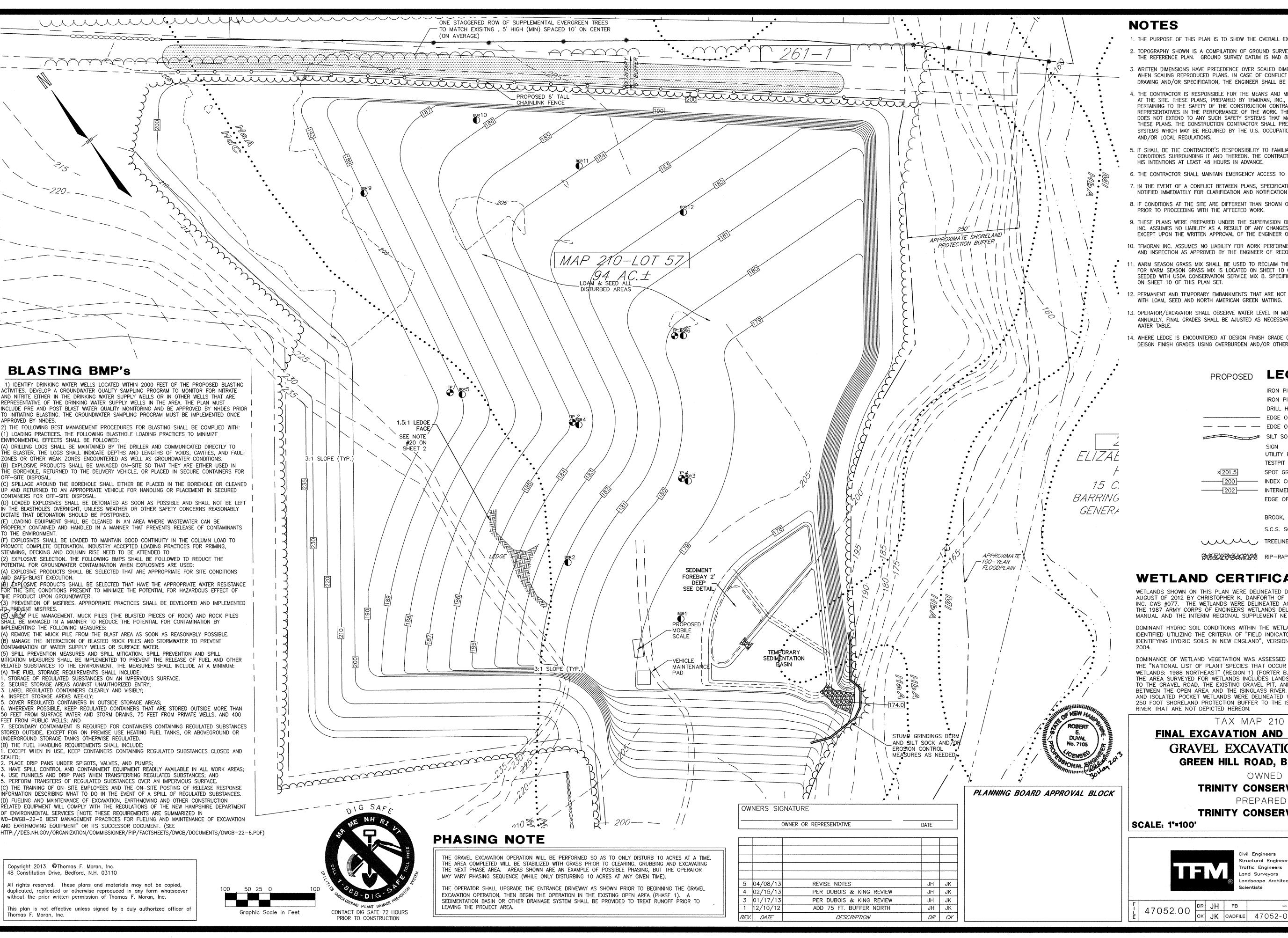
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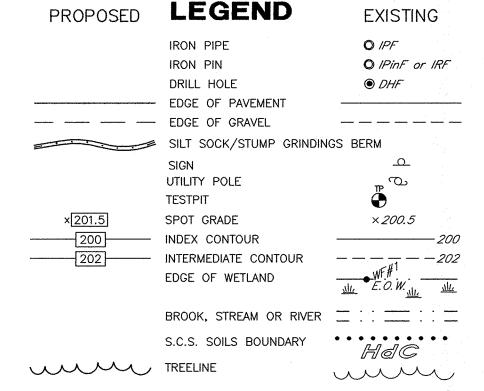
CK JK CADFILE 47052-00 Site

SHEET 7 OF 12



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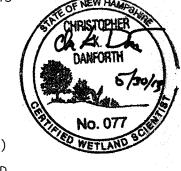


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TAX MAP 210 LOT 57

FINAL EXCAVATION AND RESTORATION PLAN GRAVEL EXCAVATION OPERATION GREEN HILL ROAD, BARRINGTON, NH

OWNED BY

TRINITY CONSERVATION, LLC PREPARED FOR

TRINITY CONSERVATION, LLC

SEPTEMBER 20, 2012

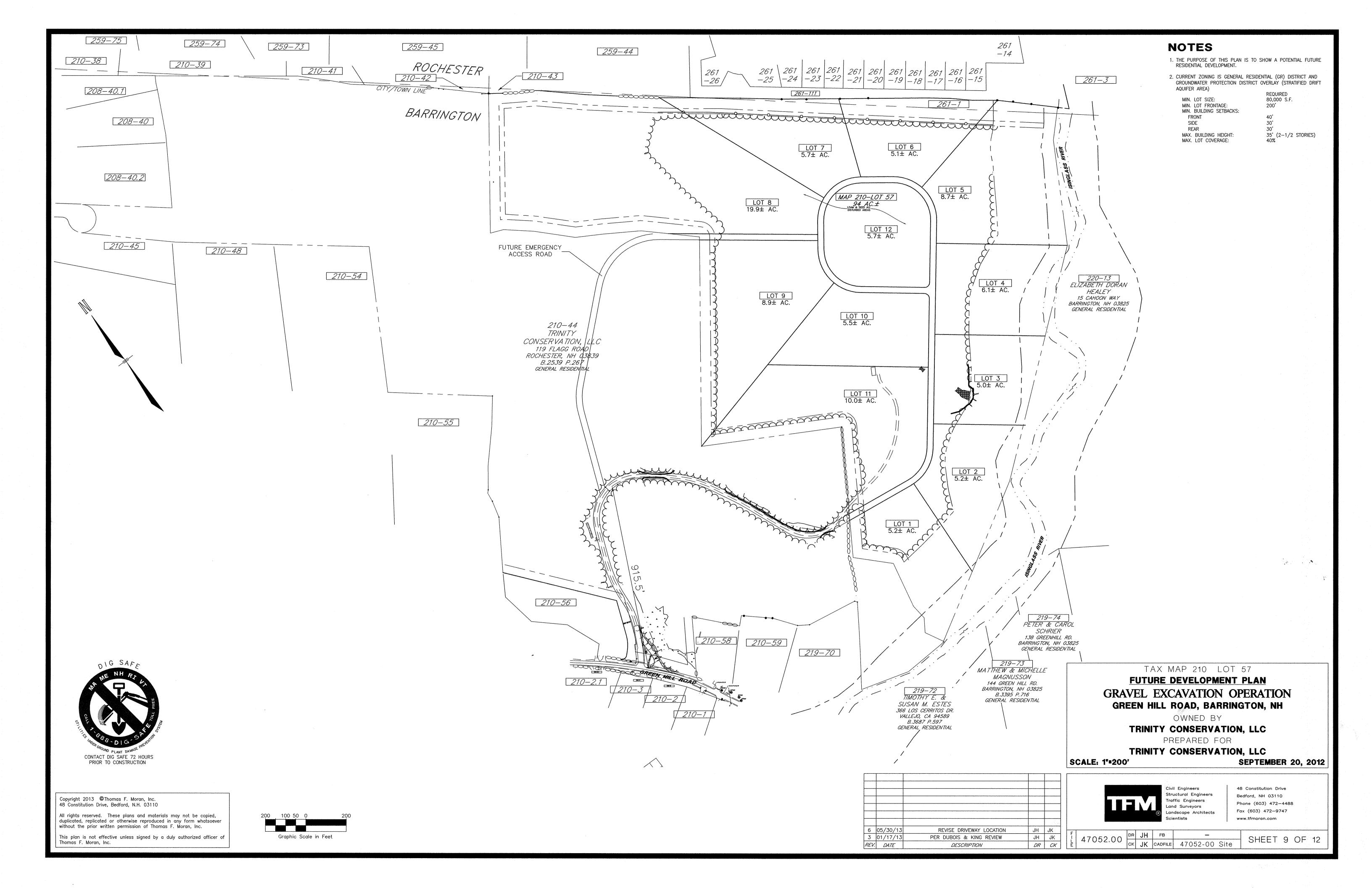


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SHEET 8 OF 12



CONSTRUCTION SEQUENCE NOTES

- ALL PROPERTY CORNERS SHALL BE STAKED OR CLEARLY MARKED WITH GRADE STAKES OR FLAGGING BY A LAND SURVEYOR, PROPERTY LINES AND BUFFERS NEAR THE OPERATION SHALL BE CLEARLY MARKED AT REASONABLE INTERVALSTO PREVENT ENCROACHMENT ON ABUTTING PROPERTIES.
- WHERE NECESSARY FOR EXCAVATION CUT AND CLEAR TREES, DISPOSE OF ALL DEBRIS. STUMPS ARE TO BE BURIED IN THE EMBANKMENT IN THE STUMP DISPOSAL AREA.
- CONSTRUCT TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES.
- EXCAVATE MATERIAL. NO MORE THAN 10 ACRES OF AREA MAY BE EXPOSED AT ANY ONE TIME.
- BEGIN PERMANENTAND TEMPORARY SEEDING AND MULCHING. ALL CUT SLOPES SHALL BE SEEDED AND MULCHED IMMEDIATELY AFTER THE EXCAVATION IS COMLETED.
- DAILY, OR AS REQUIRED CONSTRUCT TEMPORARY BERMS, BASINS, DITCHES, SILT FENCES, SEDIMENET TRAPS, ETC.MULCH AND SEED AS REQUIRED.
- INSPECT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES.
- 8. COMPLETE PERMANENT SEEDING, LANDSCAPING AND OTHER RESORATION MEASURES.
- 9. REMOVE TEMPORARY EROSION CONTROL MEASURES.
- 10. FUGITIVE DUST SHALL BE CONTROLLED IN ACCORDANCE WITH NHDES REGULATIONS.

GENERAL NOTES

- 1. ALL IN PAVEMENT MANHOLES SHALL HAVE RIMS SET TO FINISH GRADE REGARDLESS OF ANY ELEVATIONS OTHERWISE
- 2. WHERE DEPTH OF COVER IS LESS THAN 3 FEET CLASS V REINFORCED CONCRETE PIPE SHALL BE USED.
- 3. THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES OWNING UTILITIES, EITHER OVERHEAD OR UNDERGROUND, WITHIN THE CONSTRUCTION AREA AND SHALL COORDINATE AS NECESSARY WITH THE UTILITY COMPANIES OF SAID UTILITIES. THE PROTECTION OR RELOCATION OF UTILITIES IS ULTIMATELY THE RESPONSIBILITY OF THE CONTRACTOR.
- 4. THE CONTRACTOR SHALL MAINTAIN EMERGENCY ACCESS TO ALL AREAS AFFECTED BY HIS WORK AT ALL TIMES.
- 5. ALL EXCAVATIONS SHALL BE THOROUGHLY SECURED ON A DAILY BASIS BY THE CONTRACTOR AT THE COMPLETION OF CONSTRUCTION OPERATIONS IN THE IMMEDIATE AREA.
- 6. EROSION CONTROL SYSTEMS SHALL BE INSTALLED AND MAINTAINED FOR THE DURATION OF THE PROJECT IN ACCORDANCE WITH APPLICABLE NHDES STANDARDS. THESE DETAILS SERVE AS A GUIDE ONLY.
- 7. REFER TO THE TOWN STANDARD DETAILS, LATEST REVISION, FOR ADDITIONAL INFORMATION AND CRITERIA.
- 8. THE CONTRACTOR SHALL STABILIZE ALL DITCHES, SWALES, AND PONDS PRIOR TO DIRECTING FLOW TO THEM.
- 9. THE SMALLEST PRACTICAL AREA SHALL BE DISTURBED DURING CONSTRUCTION, BUT IN NO CASE SHALL EXCEED 10 ACRES AT ANY ONE TIME BEFORE DISTURBED AREAS ARE STABILIZED.

EROSION CONTROL NOTES

- DURING CONSTRUCTION AND THEREAFTER, EROSION CONTROL MEASURES ARE TO BE IMPLEMENTED AS NOTED: 1. INSTALLATION OF SILTATION FENCES AND OTHER EROSION CONTROL MEASURES SHALL BE COMPLETED PRIOR TO THE START OF SITE WORK IN ANY GIVEN AREA, PREFABRICATED SILTATION FENCES SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
- 2. SILTATION FENCES AND OTHER EROSION CONTROL MEASURES SHALL BE KEPT CLEAN DURING CONSTRUCTION AND REMOVED WHEN ALL SLOPES HAVE A VEGETATIVE COVER OF GREATER THAN 85%. EROSION CONTROL MEASURES SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EVERY RAINFALL.
- 3. EXISTING VEGETATION IS TO REMAIN UNDISTURBED WHEREVER POSSIBLE
- 4. THE AREA OF LAND EXPOSED AND THE TIME OF EXPOSURE SHALL BE MINIMIZED. ALL DISTURBED AREAS SHALL BE STABILIZED WITHIN 72 HOURS AFTER FINAL GRADING.
- 5. ALL DISTURBED AREAS SHALL HAVE A MINIMUM OF 4" OF LOAM. ACCEPTABLE SEED MIXES ARE AS FOLLOWS:

EMBANKMENTS: USE USDA SOIL CONSERVATION SERVICE "B" MIXTURE, TO BE SPREAD UNIFORMLY BY HYDRO SEEDING.

TALL FESCUE 0.36 LBS / 1000 SF CREEPING RED FESCUE 0.25 LBS / 1000 SF CROWN VETCH 0.35 LBS/ 1000 SF RYE GRASS (PERENNIAL) 0.11 LBS/ 1000 SF

TOTAL 1.05 LBS/ 1000 SF

EXCAVATION SITE FLOOR: WARM SEASON GRASSES

SWITCHGRASS OR COASTAL PANICGRASS 5 LBS/ AC BIG BLUESTEM 7 LBS/ AC LITTLE BLUESTEM 6 LBS/ AC INDIANGRASS 7 LBS/ AC SIDEOATS GRAMA 2 LBS/ AC DEERTONGUE 8 LBS/ AC SAND BLUEGRASS 2 LBS/ AC

TOTAL 37 LBS/AC

- A. PLACING LOAM ON SITE a. ALL SUBGRADE ELEVATIONS SHOULD BE UNIFORMLY GRADED TO RECEIVE LOAM AND SHALL BE INSPECTED AND APPROVED BY THE GENERAL CONTRACTOR PRIOR TO PLACEMENT OF LOAM.
- b. PLACE LOAM TO FORM A MINIMUM DEPTH OF 4" WHEN ROLLED, UNLESS OTHERWISE INDICATED. c. ALL DEPRESSIONS EXPOSED DURING THE ROLLING SHALL BE FILLED WITH ADDITIONAL LOAM.
- AFTER FINISH GRADING AND JUST BEFORE SEEDING, THE AREAS TO BE SEEDED SHALL BE LOOSENED TO PROVIDE A ROUGH, FIRM BUT FINELY PULVERIZED SEEDBED. THE INTENT IS A TEXTURE CAPABLE OF RETAINING WATER, SEED AND FERTILIZER WHILE REMAINING STABLE AND ALLOWING SEED TIME TO GERMINATE, SEED SHALL BE APPLIED TO THE CONDITIONED SEEDBED NOT MORE THAN 48 HOURS AFTER THE SEEDBED HAS BEEN PREPARED.
- 6. LIME AND FERTILIZER SHALL BE INCORPORATED INTO THE SOIL PRIOR TO OR AT THE TIME OF AT THE TIME OF SEEDING, A MINIMUM OF 2 TONS PER ACRE OF AGRICULTURAL LIMESTONE AND 500 LBS. PER ACRE OF 10-20-20 FERTILIZER SHALL BE APPLIED. SEEDING PRACTICES SHALL COMPLY WITH LOCAL USDA SOIL CONSERVATION SERVICES RECOMMENDATIONS.
- 7. HAY MULCH OR JUTE MATTING SHALL BE USED WHERE INDICATED ON THE PLANS. A MINIMUM OF 1.5 TONS OF MULCH PER ACRE SHALL BE APPLIED. MULCH SHALL BE ANCHORED IN PLACE WHERE NECESSARY. JUTE MATTING SHALL BE LAID IN THE DIRECTION OF RUNOFF FLOW AND APPLIED IN ACCORDANCE WITH MANUFACTURER'S
- 8. PERMANENT OR TEMPORARY COVER MUST BE IN PLACE BEFORE THE GROWING SEASON ENDS. WHEN SEEDED AREAS ARE MULCHED, PLANTINGS MAY BE MADE FROM EARLY SPRING TO EARLY OCTOBER. WHEN SEEDED AREAS AREA NOT MULCHED, PLANTINGS SHOULD BE MADE FROM EARLY SPRING TO MAY 20 OR FROM AUGUST 15 TO SEPTEMBER 15. NO DISTURBED AREA SHALL BE LEFT EXPOSED DURING WINTER MONTHS.
- 9. WATER SHALL BE USED FOR DUST CONTROL IN APPROPRIATE AREAS.

WINTER CONSTRUCTION

- IN ADDITION TO THE OTHER NOTES CONTAINED ON THIS PLAN. THE FOLLOWING MUST BE IMPLEMENTED:
- 1. WINTER EXCAVATION AND EARTHWORK SHALL BE COMPLETED AS SUCH THAT NO MORE THAN 1 ACRE OF THE SITE IS WITHOUT STABILIZATION AT ANY ONE TIME.
- 2. AN AREA WITHIN 100 FEET OF A PROTECTED NATURAL RESOURCE MUST BE PROTECTED WITH A DOUBLE ROW OF SEDIMENT BARRIER.
- 3. TEMPORARY MULCH MUST BE APPLIED WITHIN 7 DAYS OF SOIL EXPOSURE OR PRIOR TO ANY STORM
- EVENT, BUT AFTER EVERY WORKDAY IN AREAS WITHIN 100 FEET FROM A PROTECTED NATURAL RESOURCE. 4. AREAS THAT HAVE BEEN BROUGHT TO FINAL GRADE MUST BE PERMANENTLY MULCHED THE SAME DAY.
- 5. IN THE EVENT OF A SNOWFALL GREATER THAN 1 INCH (FRESH OR CUMULATIVE), THE SNOW SHALL BE REMOVED FROM THE AREAS DUE TO BE SEEDED AND MULCHED.
- 6. LOAM SHALL BE FREE OF FROZEN CLUMPS BEFORE IT IS APPLIED.
- 7. A DITCH THAT WILL BE CONSTRUCTED DURING THE WINTER MUST BE STABILIZED WITH RIPRAP.

OVERWINTER STABILIZATION

- 1 PERMANENT STABILIZATION CONSISTS OF AT LEAST 85% VEGETATION, PAVEMENT/GRAVEL BASE OR RIPRAP.
- 2. DO NOT EXPOSE SLOPES OR LEAVE SLOPES EXPOSED OVER THE WINTER OR FOR ANY OTHER EXTENDED TIME OF WORK SUSPENSION UNLESS FULLY PROTECTED WITH MULCH.
- 3. APPLY HAY MULCH AT TWICE THE STANDARD RATE (150 LBS. PER 1,000 SF). THE MULCH MUST BE THICK ENOUGH SUCH THAT THE GROUND SURFACE WILL NOT BE VISIBLE AND MUST BE ANCHORED.
- 4. USE MULCH AND MULCH NETTING OR AN EROSION CONTROL MULCH BLANKET OR MIX FOR ALL SLOPES GREATER THAN 8% OR OTHER AREAS EXPOSED TO DIRECT WIND.
- 5. INSTALL AN EROSION CONTROL BLANKET IN ALL DRAINAGE WAYS (BOTTOM AND SIDES) WITH A SLOPE GREATER THAN 3%.
- 6. SEE THE VEGETATION MEASURES FOR MORE INFORMATION ON SEEDING DATES AND TYPES.

RECLAMATION NOTES

RECLAMATION NOTES

- ALL LOAM AND TOPSOIL TO BE STRIPPED AND STOCKPILED AND RESPREAD TO A MINIMUM DEPTH OF 4
- INCHES IN THE COMPETED PIT EXCEPT FOR EXPOSED ROCK LEDGE ALL AREAS WHICH HAVE BEEN AFFECTED BY THE EXCAVATION OR OTHERWISE STRIPPED OF VEGETATION SHALL BE SPREAD WITH TOPSOILS OR STRIPPIINGS IF ANY BUT IN ANY CASE. COVERED BY SOIL CAPABLE OF SUSTAINING VEGETATION, AND SHALL BE PLANTED WITH SEEDLINGS OR GRASS SUITABLE TO PREVENT EROSION.
- ALL EARTH AND VEGETATIVE DEBRIS RESULTING FROM THE EXCAVATION SHALL BE REMOVED OR
- OTHERWISE LAWFULLY DISPOSED OF. ALL SLOPES, EXCEPT EXPOSED LEDGE SHALL NOT BE LEFT STEEPER THAN 2:1.
 - DIVERT SURFACE AND SEEPAGE WATER FROM AREA TO BE SEEDED.
 - REMOVE LARGE STONES AND TRASH LOAM, FERTILIZER, SEED AND MULCH ARE TO BE APPLIED TO ALL SLOPES AS SOON AS POSSIBLE AFTER EXCAVATION. OTHER AREAS TO BE SEEDED BETWEEN APRIL 15 AND OCTOBER 15. THE FOLLOWING APPLICATION APPLY
 - APPLY LIME AND FERTILIZER AS A MINIMUM APPLY THE FOLLOWING AMOUNTS PER 1000
 - d. SEED- EMBANKMENTS: USE USDA SOIL CONSERVATION SERVICE "B" MIXTURE, TO BE SPREAD UNIFORMLY BY HYDRO SEEDING.

TALL FESCUE 0.36 LBS/ 1000 SF CREEPING RED FESCUE 0.25 LBS / 1000 SE CROWN VETCH 0.35 LBS/ 1000 SF RYE GRASS (PERENNIAL) 0.11 LBS/ 1000 SF

TOTAL 1.05 LBS/ 1000 SF

SEED- EXCAVATION SITE FLOOR: WARM SEASON GRASSES

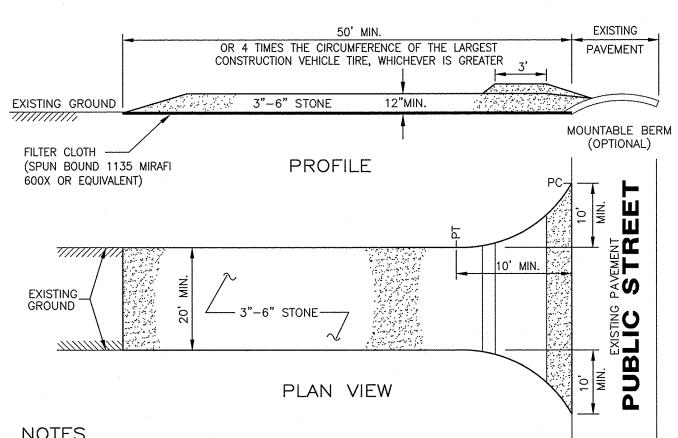
SWITCHGRASS OR COASTAL PANICGRASS 5 LBS/ AC BIG BLUESTEM 7 LBS/ AC LITTLE BLUESTEM 6 LBS/ AC INDIANGRASS 7 LBS / AC SIDEOATS GRAMA 2 LBS/ AC DEERTONGUE 8 LBS/ AC SAND BLUEGRASS 2 LBS/ AC 37 LBS/ AC

MULCH- 70-90 LBS / 1000 SF OF PAPER MACHE BY MACHINE METHOD ANCHOR TO SLOPES ÚSING SYNTHETIC EMULSIONS, ON SLOPES FLATTER THAN 2:1, HAY OR STRAW MAY BE USED AT THE RATE OF 70-90 LBS/1000 SF.

ANGRAHANAN YAKANAN ANARANAN BULUNAN ANARAN ANARAN KUMUN KANALAN KUMUN KUMUN KANALAN KANAN ANARAN KANAN ANARAN 4" LOAM (ITEM 641) SEED (ITEM 644) -LIMESTONE (ITEM 642) FERTILIZER (ITEM 643.11) MULCH (ITEM 645.111)

LOAM & SEED

NOT TO SCALE



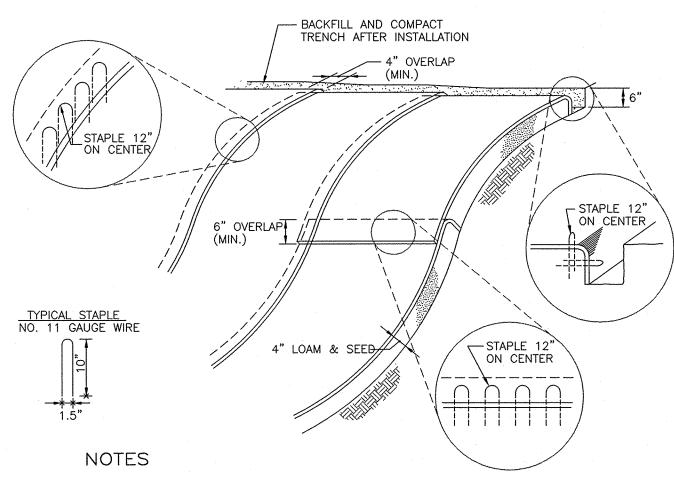
NOTES

- 1. FILTER CLOTH WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE SURFACE.
- 2. WATER ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
- 3. MAINTENANCE THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY
- 4. WASHING WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- 5. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN STORM EVENT.

USDA - SCS STABILIZED CONSTRUCTION ENTRANCE

SEE PLAN FOR PROPOSED LOCATION

NOT TO SCALE

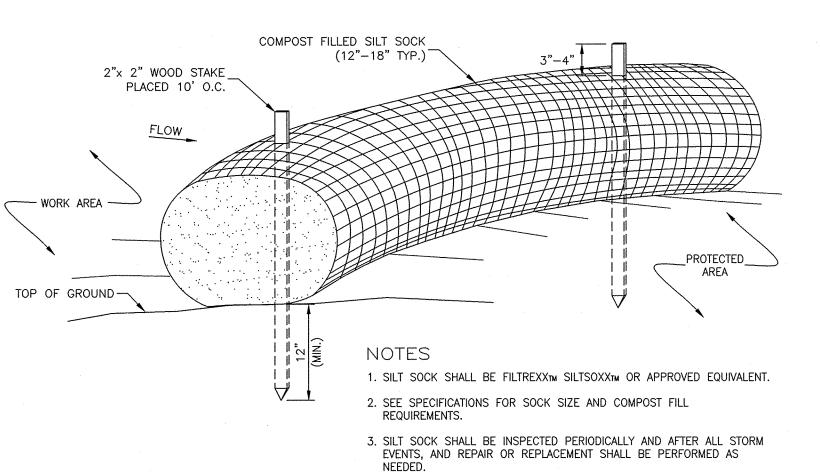


- 1. BEGIN AT THE TOP OF BLANKET INSTALLATION AREA BY ANCHORING BLANKET IN A 6" DEEP TRENCH, BACKFILL AND COMPACT TRENCH AFTER STAPLING.
- 2. ROLL THE BLANKET DOWN THE SWALE IN THE DIRECTION OF THE WATER FLOW.
- 3. THE EDGES OF BLANKETS MUST BE STAPLED WITH APPROX. 4 INCH OVERLAP WHERE 2 OR MORE STRIP WIDTHS ARE REQUIRED.
- 4. WHEN BLANKETS MUST BE SPLICED DOWN THE SWALE, PLACE BLANKET END OVER END WITH 6 INCH (MIN.) OVERLAP AND ANCHOR DOWN SLOPE BLANKET IN A 6 INCH DEEP TRENCH.
- 5. BLANKET SHALL BE NORTH AMERICAN GREEN SC-150 OR APPROVED EQUAL.

BLANKET SLOPE PROTECTION

FOR EROSION CONTROL

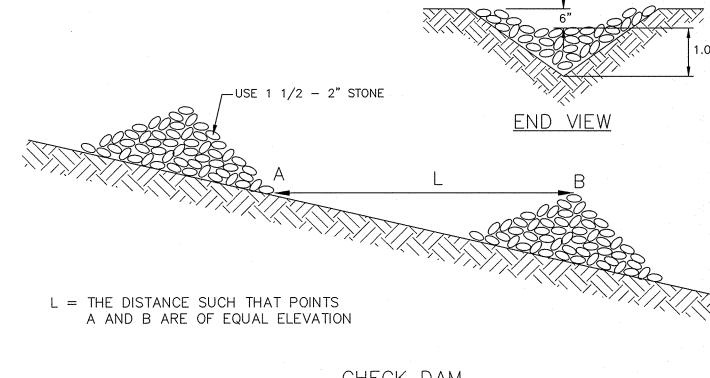
NOT TO SCALE



SILT SOCK

NOT TO SCALE

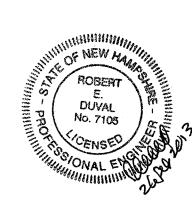
4. COMPOST MATERIAL SHALL BE DISPERSED ON SITE, AS DETERMINED BY



CHECK DAM

STONE CHECK DAM

NOT TO SCALE



TAX MAP 210 LOT 57 DETAIL SHEET

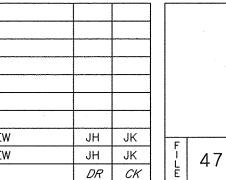
GRAVEL EXCAVATION OPERATION GREEN HILL ROAD, BARRINGTON, NH

> TRINITY CONSERVATION, LLC PREPARED FOR

OWNED BY

TRINITY CONSERVATION, LLC

SCALE: AS NOTED **SEPTEMBER 20, 2012**



Civil Engineers Structural Engineers Traffic Engineers Land Surveyors Landscape Architects Scientists

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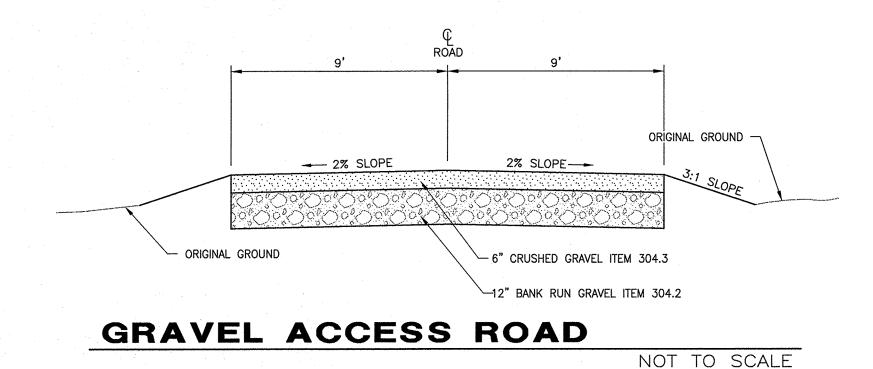
SHEET 10 OF 12

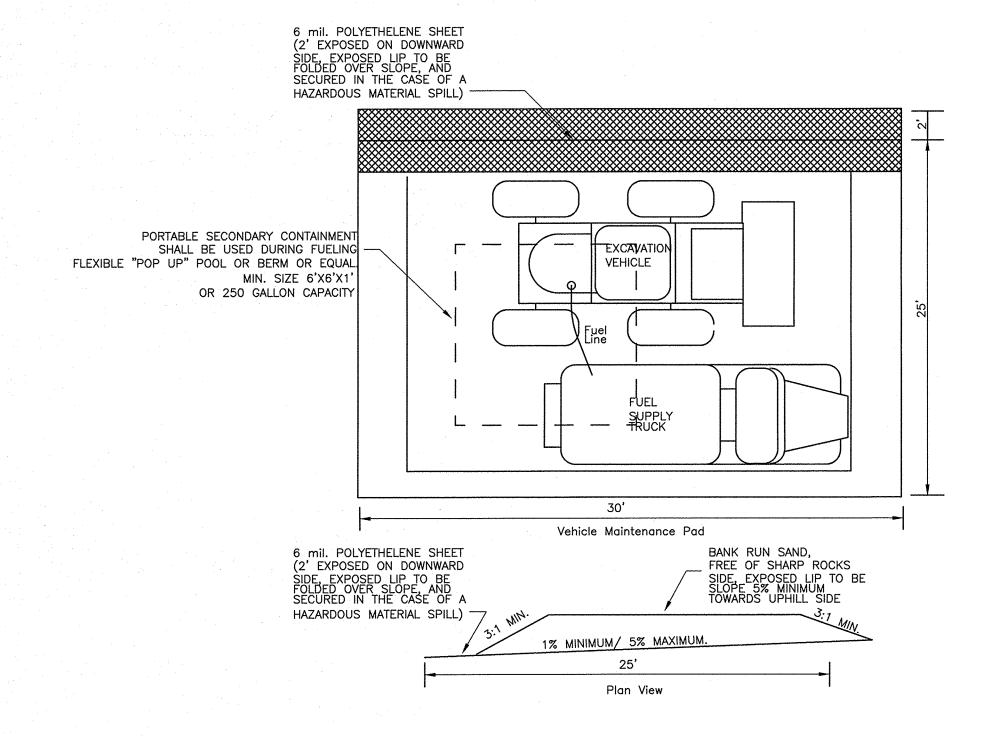
DR JH FB —
CK JK CADFILE 47052-00 Details

4 02/15/13 PER DUBOIS & KING REVIEW 3 01/17/13 PER DUBOIS & KING REVIEW DESCRIPTION REV. DATE

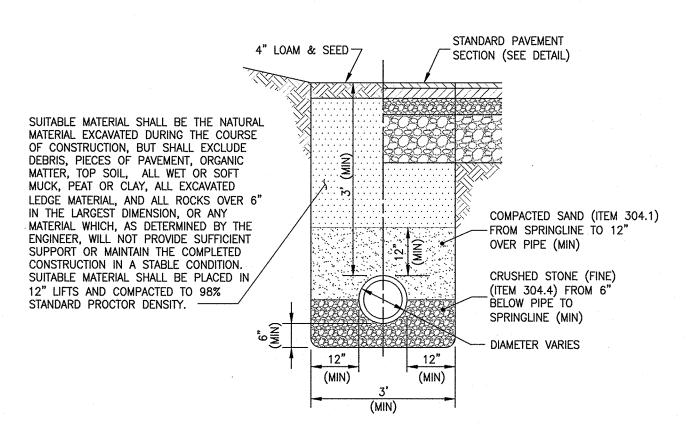
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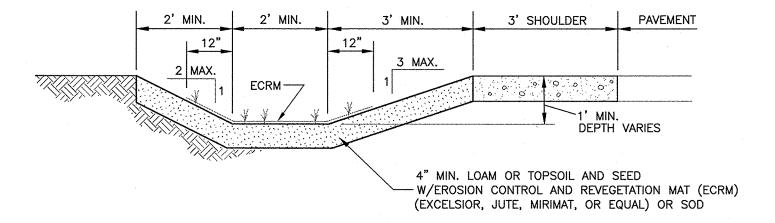


TEMPORARY VEHICLE MAINTENANCE PAD NOT TO SCALE



STORM DRAIN TRENCH

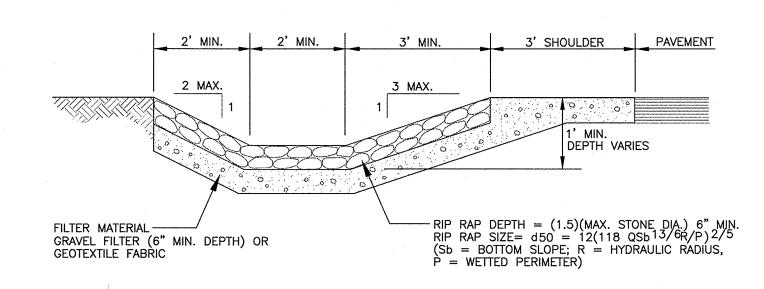
NOT TO SCALE



GRASS LINED SWALE

FOR USE WHERE VELOCITIES ARE 3 CFS OR LESS NOT TO SCALE

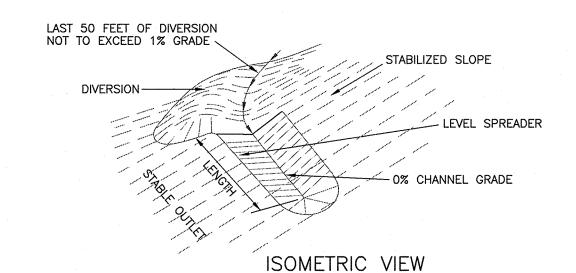
RIP-RAP GRADATION					GRAVEL FILTER GRADATION		
	% FINER BY WEIGHT						
STONE SIZE	D ₅₀ = 6"	$D_{50} = 9$ "	D 50 = 12'	$D_{50} = 18"$	$D_{50} = 24$ "		% PASSING
2"	0-15%	0%			-	SIEVE SIZE	BY WEIGHT
4"	20-35%	10-20%	0-10%	_		31/2"	100
6"	35-50%	25-35%	10-25%	0-10%		3"	85-100
8"	50-65%	30-50%	20-30%	10-20%	0-10%	1 ½" 3 _{4"}	60-90
10"	60-80%	40-60%	30-40%	15-30%	5-15%		40-70
12"	75-100%				_	38'	20-50
15"	_	70-100%	45-60%	25-40%	20-30%	NO. 4	10-40
20"		-	70-100%	40-60%	30-45%	NO. 200	0-8
30"		. <u>-</u>	-	70-100%	50-70%		
40	. —		_		70-100%		

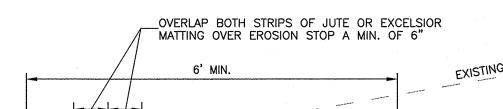


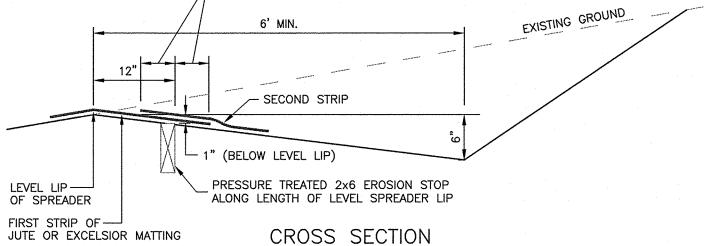
RIP RAP SWALE

FOR USE WHERE VELOCITIES EXCEED 3 FPS

NOT TO SCALE

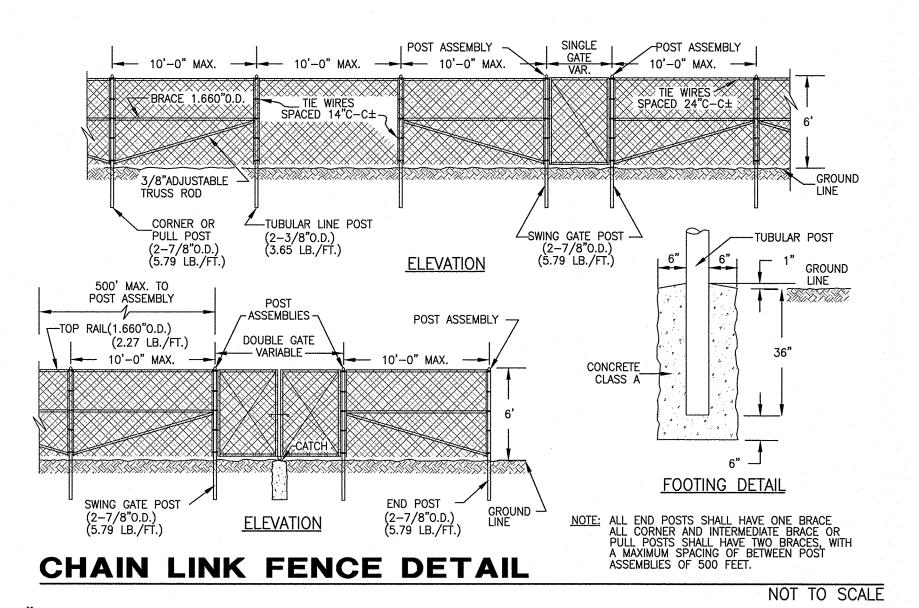






LEVEL SPREADER

NOT TO SCALE





TAX MAP 210 LOT 57 **DETAIL SHEET**

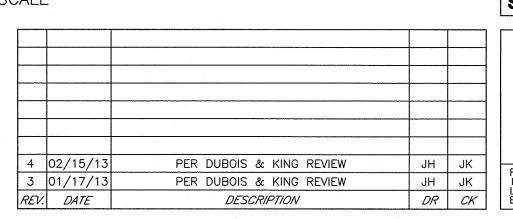
GRAVEL EXCAVATION OPERATION

GREEN HILL ROAD, BARRINGTON, NH OWNED BY

TRINITY CONSERVATION, LLC PREPARED FOR

TRINITY CONSERVATION, LLC

SCALE: AS NOTED **SEPTEMBER 20, 2012**





Civil Engineers Structural Engineers Traffic Engineers Land Surveyors Landscape Architects

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 DR
 JH
 FB
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 CK
 JK
 CADFILE
 47052-00
 Details
 SHEET 11 OF 12

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