

EARTH EXCAVATION PLANS

APPLICATION EARTH EXCAVATION PERMIT FOR QUARRY ROAD, BOLTON, CT

FOR TOWN OF BOLTON
SPECIAL PERMIT
APRIL 7, 2008
(REVISED NOVEMBER 18, 2010)



SITE DISTANCES

SCALE 1" = 200'
* SITE DISTANCE FIELD VERIFIED
BY URS CORP ON 4/17/2007.

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OWNER:

MILTON R. HATHAWAY &
ROSEMARY J. HATHAWAY, TRUSTEES
40 QUARRY ROAD
BOLTON, CONNECTICUT

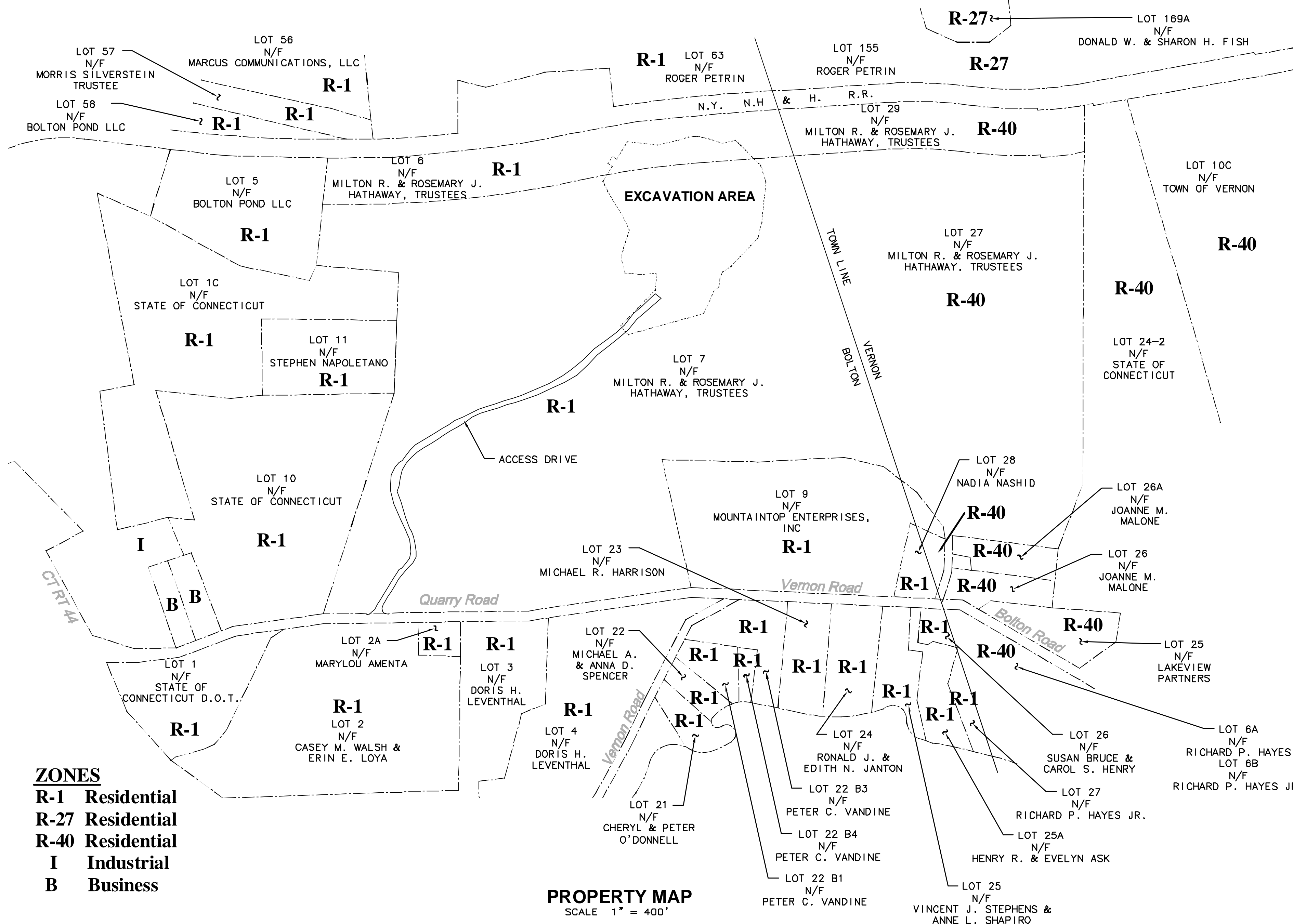
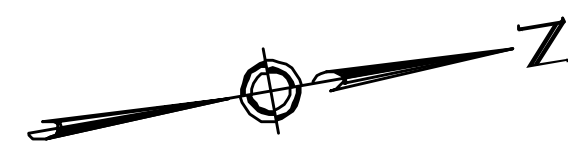
APPLICANT:

HATHAWAY SAND & GRAVEL, LLC
10 QUARRY ROAD
BOLTON, CONNECTICUT

Bolton PZC
Special Permit / Site Plan
Approved November 12, 2008
5-Year Date for Completion
of Improvements:
September 16, 2015
Chairman/Secretary Date Signed

ENGINEER:

URS
URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882



GENERAL NOTES

- UNDERGROUND UTILITY, STRUCTURE AND FACILITY LOCATIONS DEPICTED ON THE CONTRACT DRAWINGS HAVE BEEN COMPILED, IN PART, FROM RECORD MAPPING AND OTHER DATA SUPPLIED BY RESPECTIVE UTILITY COMPANIES, AND/OR OTHER SOURCES. THESE LOCATIONS MUST BE CONSIDERED APPROXIMATE IN NATURE. ADDITIONALLY, OTHER UTILITY AND UNDERGROUND FEATURES, WHICH ARE UNKNOWN TO URS CORPORATION AES, MAY EXIST ON THE SITE. THE PRESENCE, SIZE AND LOCATION OF ALL UNDERGROUND FEATURES MUST BE DETERMINED AND VERIFIED IN THE FIELD BY THE APPROPRIATE AUTHORITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REQUEST MARK OUT OF UTILITY LOCATION FROM CALL BEFORE YOU DIG (1-800-922-4455) AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION OPERATION.
- AS CONSTRUCTION IS COMPLETED, THE CONTRACTOR SHALL REMOVE ALL EXCESS MATERIAL, DEBRIS, ETC. AND RESTORE AND/OR REPAIR ANY DAMAGE TO LANDSCAPING.
- ANY PIPE LENGTHS SHOWN ARE MEASURED FROM CENTER TO CENTER OF STRUCTURES.
- AREAS OUTSIDE THE PROJECT LIMIT LINE DISTURBED BY CONSTRUCTION SHALL BE RETURNED TO THEIR ORIGINAL CONDITION OR BETTER AND SHALL BE GRADED TO MEET PROPOSED CONSTRUCTION AS DIRECTED BY THE OWNER'S REPRESENTATIVE. COST FOR THIS WORK SHALL BE BORNE BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL PROCURE ALL THE NECESSARY PERMITS AND LICENSES. AT THE TIME REQUIRED, PAY ALL CHARGES AND FEES, AND GIVE NOTICES NECESSARY AND DUE IN CONNECTION WITH THE LAWFUL EXECUTION OF THE WORK AT NO ADDITIONAL COST TO THE OWNER.
- EXCAVATION OF ANY TYPE SHALL BE ACCOMPLISHED IN SUCH A MANNER THAT UNDERGROUND UTILITIES OR STRUCTURES ARE NOT DAMAGED. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY FOR ANY DAMAGE INCURRED DURING EXCAVATION OPERATIONS. ALL EXCAVATION SHALL BE IN CONFORMANCE WITH THE LATEST OSHA REQUIREMENTS.
- ALL ACCESS DRIVES, DRAINAGE SYSTEMS, AND VEGETATION DISTURBED BY THE CONSTRUCTION IN OR OUTSIDE THE PROJECT LIMIT LINE SHALL BE RETURNED TO THEIR ORIGINAL CONDITION OR BETTER AND SHALL BE GRADED TO MEET PROPOSED CONSTRUCTION AS DIRECTED BY THE OWNER'S REPRESENTATIVE AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL SUFFICIENTLY COVER ALL DISTURBED AREAS AT THE END OF EACH WORK DAY TO AVOID ANY RISK OF INJURY TO PEDESTRIAN OR VEHICULAR TRAFFIC. THE CONTRACTOR SHALL INSTALL TEMPORARY SUPPORT SYSTEMS OVER TRENCH EXCAVATIONS THAT ARE TAMPER RESISTANT AND SAFE FOR VEHICULAR AND PEDESTRIAN TRAFFIC. THE CONTRACTOR SHALL INSTALL BARRICADES TO PROTECT AGAINST PEDESTRIAN ACCESS. THE CONTRACTOR SHALL OBTAIN APPROVAL OF THE TEMPORARY SAFETY MEASURES BY THE OWNER'S REPRESENTATIVE. ALL MAINTENANCE AND PROTECTION OF BOTH PEDESTRIAN AND VEHICULAR TRAFFIC ARE INCLUDED IN THE LUMP SUM BID PRICE FOR THIS PROJECT.
- THE STANDARD SPECIFICATIONS (FOR SITE WORK) SHALL MEAN THE STATE OF CONNECTICUT, DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, AND INCIDENTAL CONSTRUCTION, FORM 816 2004, INCLUDING ALL SUPPLEMENTS THERETO.
- ALL DISTURBED AREAS, NOT PROVIDED WITH SPECIFIC SURFACE IMPROVEMENTS (PAVEMENT MILLINGS, RIP RAP SWALE, ETC.) SHALL BE MULCHED.
- LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES INSTALLED OR FOUND DURING CONSTRUCTION SHALL BE INDICATED BY THE CONTRACTOR ON RECORD DRAWINGS, MEASURED FROM PERMANENT SURFACE FEATURES.
- WHEN EXCAVATING CLOSE TO TREES TO REMAIN, USE ONLY HAND TOOLS. CARE SHALL BE TAKEN TO ENSURE THAT TREE ROOTS ARE NOT DAMAGED IN ANY WAY. THE OWNER'S REPRESENTATIVE SHALL BE NOTIFIED IMMEDIATELY WHENEVER TREE ROOTS ARE ENCOUNTERED. FURTHER EXCAVATING AT THAT LOCATION SHALL BE AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
- THE CONTRACTOR SHALL PERFORM ALL OPERATIONS OF DEMOLITION AND REMOVAL AS MAY BE REQUIRED FOR HIS WORK.
- THE CONTRACTOR SHALL COMPLETE ALL WORK SO THAT ANY MATERIALS WHICH ARE TO REMAIN IN PLACE OR WHICH ARE TO REMAIN THE PROPERTY OF THE OWNER, WILL NOT BE DAMAGED. IF THE CONTRACTOR DAMAGES ANY MATERIALS WHICH ARE TO REMAIN OR WHICH ARE TO REMAIN THE PROPERTY OF THE OWNER, THE DAMAGED MATERIALS SHALL BE REPLACED TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE AT THE EXPENSE OF THE CONTRACTOR.
- THE OWNER'S REPRESENTATIVE SHALL APPROVE THE LOCATION(S) OF ALL STORED MATERIALS ON SITE.
- AFTER THE CONSTRUCTION HAS BEEN COMPLETED, THE CONTRACTOR SHALL REMOVE ALL EXCESS MATERIAL, DEBRIS, ETC. AND RESTORE OR REPAIR ANY DAMAGE TO LANDSCAPING AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
- PROTECT EXISTING TREES OR SHRUBS TO REMAIN NEAR CONSTRUCTION OPERATIONS BY BOXING OR FENCING IN ACCORDANCE WITH THE CTDEP "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" REVISED 2002.
- SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL CONFORM TO THE CTDEP "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" REVISED 2002.
- THE PROJECT LIMIT LINE FOR THIS PROJECT IS AS SHOWN ON THE CONTRACT DRAWINGS UNLESS OTHERWISE DIRECTED BY THE OWNER'S REPRESENTATIVE.
- EXISTING PROPERTY LINES, STREET LINES AND RIGHT-OF-WAY LINES WHERE SHOWN ARE APPROXIMATE AND INTENDED FOR GENERAL INFORMATION ONLY.
- ALL PROPOSED WORK MAY BE VARIED IN THE FIELD BY THE OWNER'S REPRESENTATIVE TO MEET EXISTING CONDITIONS.
- CONNECTICUT DEPARTMENT OF TRANSPORTATION (CTDOT) STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, AND INCIDENTAL CONSTRUCTION, FORM 816 IS AVAILABLE FOR VIEWING ON THE CTDOT WEBSITE WWW.CT.GOV/DOT/SITE UNDER THE "PUBLICATIONS" TAB.

LEGEND

DESCRIPTIONS	EXISTING	PROPOSED
PROJECT LIMIT LINE		
STORM SEWER		
CATCH BASIN		
OUTLET STRUCTURE		
SEDIMENTATION BARRIER SILT FENCE/HAYBALES		
SEDIMENTATION CONTROL INLET PROTECTION		
SEDIMENTATION CONTROL CONSTRUCTION ENTRANCE		

WETLAND INFORMATION

WETLAND IMPACT: 0 SF
WETLAND BUFFER IMPACT: 0 SF

EARTH EXCAVATION

200,000 CY

EARTH EXCAVATION NOTES

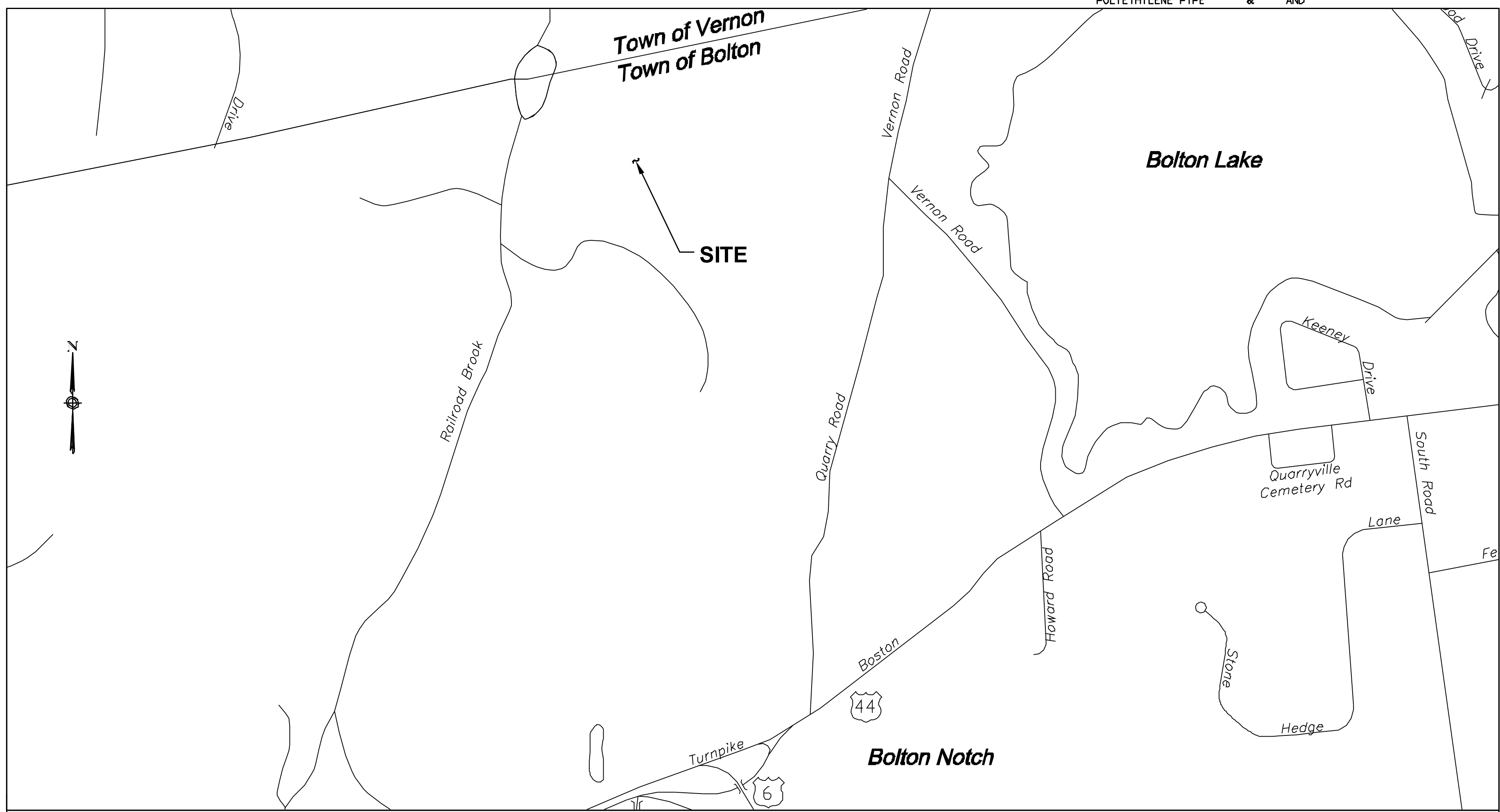
- TOTAL AREA OF EXCAVATION = 12 ACRES (6 ACRES PREVIOUSLY APPROVED AND 6 ACRES SUBJECT TO THIS APPLICATION). NO MORE THAN 2 ACRES OF LAND, AS STAKED OUT BY A SURVEYOR, SHALL BE EXCAVATED INITIALLY AND NO MORE THAN 2 ACRES OF LAND AS STAKED OUT BY A SURVEYOR, SHALL HAVE EXPOSED OR UNSTABLE SOIL CONDITIONS AT ANY TIME EXCEPT THAT AN ADDITIONAL 2 ACRES MAY BE USED AS A WORK AREA, ALL OTHER AREAS SHOULD HAVE NATURAL VEGETATION PRESERVED. HAVE A GOOD COVER OF TEMPORARY OR PERMANENT VEGETATION ESTABLISHED OR BE HEAVILY MULCHED. THE PROPOSED 6 ACRE SITE MAY BE LOGGED AT ONE TIME IF THE STUMPS REMAIN.
- THE SITE OWNER SHALL SECURE THE SERVICES OF A CERTIFIED PROFESSIONAL SOIL EROSION AND SEDIMENTATION CONTROL SPECIALIST OR PROFESSIONAL ENGINEER OR CERTIFIED SOIL SCIENTIST WHO SHALL VERIFY IN THE FIELD THAT THE CONTROLS REQUIRED BY THIS PLAN ARE PROPERLY INSTALLED. THIS SPECIALIST SHALL MAKE INSPECTION OF SUCH FACILITIES NOT LESS FREQUENTLY THAN MONTHLY AND WITHIN 24 HOURS OF A RAINFALL EXCEEDING 1 INCH IN 24 HOURS. TO DETERMINE THE APPLICABLE RAINFALL, THE APPLICANT SHALL ESTABLISH A RAINFALL MONITORING DEVICE TO DETERMINE WHEN A THRESHOLD STORM OCCURS. THE APPLICANT OR HIS AGENT SHALL NOTIFY THE ZONING ENFORCEMENT OFFICER OF SUCH A DOCUMENTED EVENT WITHIN 24 HOURS OF THE STORM (OR, IF ON A WEEKEND, BY THE FOLLOWING MONDAY). THIS SPECIALIST SHALL PREPARE A WRITTEN REPORT TO THE OWNER OR HIS AGENT AND THE TOWN PLANNING AND ZONING COMMISSION NOT LESS FREQUENTLY THAN MONTHLY CONTAINING OBSERVATIONS, MAINTENANCE AND CORRECTIVE ACTIVITIES UNDERTAKEN. AN APPROVED CHECKLIST MAY BE USED TO DOCUMENT THE INSPECTION FINDINGS.
- SOIL CLASSIFICATIONS BOUNDARY LINES SHOWN HEREON ARE AS ENLARGED FROM USDA SOIL SURVEY, TOLLAND COUNTY DOWNLOADED FROM THE NRCS WEBSITE, JANUARY 2007.
- NO TOPSOIL IS TO BE REMOVED FROM SITE.
- TRUCKS USED FOR GRAVEL REMOVAL SHALL BE TRI-AXLE OR 20 YARD CAPACITY.
- NO FUEL STORAGE SHALL BE ALLOWED WITHIN THE EXCAVATED AREA.
- SITE IS TO BE USED FOR AGRICULTURAL PURPOSES UPON COMPLETION OF THE EXCAVATION.
- SILT FENCE SEDIMENT BARRIERS SHALL BE PLACED DOWNHILL OF THE CUT FACE AND EXTEND LATERALLY BEYOND THE LIMITS OF THE CUT FACE SO THAT THERE IS NO MORE THAN ONE ACRE OF LAND BETWEEN THE CUT FACE AND THE SILT FENCE.
- THE ONLY MATERIAL PROCESSING ON SITE SHALL BE THE SCREENING OF EXCAVATED SOIL WITH A RUBBERIZED MOBILE SCREENING UNIT AS PROPOSED BY THE APPLICANT (OR EQUIVALENT) LOCATED IN THE EXCAVATION AREA OR IN THE IMMEDIATE ADJACENT WORK AREA. OPERATION OF THE RUBBERIZED MOBILE SCREENING UNIT SHALL NOT TAKE PLACE WITHIN THE 300' SETBACK FROM PROPERTY LINES.
- STUMPS SHALL BE WINDROWED OR HANDLED AND DISPOSED OF IN COMPLIANCE WITH THE STATE OF CONNECTICUT REGULATIONS.
- THE ACCESS ROAD IS TO BE STABILIZED IMMEDIATELY AFTER ITS CONSTRUCTION. THE ACCESS ROAD SHALL BE COMPLETED WITH STABLE SOIL EROSION AND SEDIMENTATION CONTROLS BEFORE ANY EXCAVATION WORK COMMENCES.
- NO EXPLOSIVES SHALL BE USED ON THE SITE EXCEPT FOR THE CONSTRUCTION OF THE ACCESS ROAD. SHOULD ANY BLASTING BE REQUIRED TO MOVE OR BREAK UP LARGE GLACIAL BOULDERS, THE APPLICANT SHALL NOTIFY THE ZONING ENFORCEMENT OFFICER WITHIN 48 HOURS OF THE INTENDED BLASTING ACTIVITY. BLASTING SHALL BE CONDUCTED BY INDIVIDUALS WITH A PERMIT TO BLAST IN THE TOWN OF BOLTON.
- NO WATER SHALL BE PUMPED FROM WITHIN THE EXCAVATED AREA TO ANY LOCATION BEYOND THE ACTIVE EXCAVATION AREA.
- QUARRY ROAD AND THE PAVED ENTRANCE SECTION OF THE ACCESS ROAD WITHIN 100 FEET OF QUARRY ROAD SHALL BE SWEEP CLEAN AT THE END OF EACH WORK DAY OR AS OTHERWISE APPROVED BY THE ZONING ENFORCEMENT OFFICER TO REMOVE ANY ACCUMULATED SURFACE MATERIALS.
- THE ACCESS ROAD SHALL BE COMPACTED AND STABILIZED WITH PAVEMENT MILLINGS TO MINIMIZE THE PRODUCTION OF DUST AT ALL TIMES. ALL ROAD SURFACE MATERIALS SHALL BE MAINTAINED AND ADDITIONAL MATERIALS ADDED TO MINIMIZE DUST PRODUCTION AND TO MINIMIZE THE NEED TO ADD WATER TO THE SURFACE. IF DUST IS STILL BEING PRODUCED, WATER SHALL BE ADDED TO THE ACCESS ROAD AND EXPOSED SURFACES.
- SILT FENCE SHALL BE USED TO SET THE LIMITS OF DISTURBANCE FOR CONSTRUCTION EQUIPMENT. LIMITS WILL BE INSPECTED IN THE FIELD AT THE PRE-CONSTRUCTION MEETING AND INSPECTED DURING EACH INSPECTION OF THE SOIL EROSION AND SEDIMENTATION CONTROLS. ANY BREAKS IN THE SILT FENCE SHALL BE REPAIRED WITHIN 48 HOURS.
- A THERE SHALL BE A PRE-CONSTRUCTION MEETING HELD ON-SITE WITH THE TOWN STAFF (TOWN ENGINEER, DIRECTOR OF COMMUNITY DEVELOPMENT, BOLTON WETLANDS AGENT, AND BOLTON ZONING ENFORCEMENT OFFICER). THE APPLICANT, THE CONTRACTOR (SITE AND HAULING CONTRACTOR/FOREMAN) AND THE CONTRACTOR'S PROFESSIONAL SOIL EROSION AND SEDIMENTATION CONTROL SPECIALIST, AND APPLICANT'S ENGINEER/SURVEYOR (IF OTHER THAN SPECIALIST). THE PURPOSE OF THE PRE-CONSTRUCTION MEETING IS TO ENSURE THAT ALL PARTIES ARE COGNIZANT OF THE PLAN AND APPROVAL REQUIREMENTS. THE PARTICIPANTS SHALL CONFIRM THE ADEQUACY OF THE LIMITS OF CONSTRUCTION ARE MARKED IN THE FIELD AS DEFINED IN THE PLANS; THE 300-FOOT LIMITS ARE STAKED/FLAGGED; AND APPLICANT SHALL PROVIDE ENGINEER'S CERTIFICATION THAT THE EROSION AND SEDIMENTATION CONTROL MEASURES HAVE BEEN INSTALLED IN ACCORDANCE WITH THE CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL. THE PRE-CONSTRUCTION MEETING WILL FURTHER DISCUSS THE SOIL EROSION AND SEDIMENTATION CONTROL PLANS, INSPECTIONS, REPORTS AND MAINTENANCE.

EARTH EXCAVATION NOTES (CONTINUED)

- A SIMILAR PRE-CONSTRUCTION MEETING SHALL BE HELD AT THE COMMENCEMENT OF EACH 2-ACRE SECTION, AND ATTENDED BY THE SAME PARTIES AS IN THE INITIAL PRE-CONSTRUCTION MEETING. THE ENGINEER'S CERTIFICATION OF EROSION CONTROLS AS DESCRIBED ABOVE SHALL BE APPLICABLE TO EACH SECTION.
- CONSTRUCTION, INCLUDING CLEARING OF VEGETATION, SHALL NOT COMMENCE UNTIL SUCH TIME AS THE PRE-CONSTRUCTION MEETING HAS BEEN HELD. THE ONLY EXCEPTION BEING ANY MINOR DISTURBANCE/VEGETATION REMOVAL NECESSARY TO INSTALL EROSION AND SEDIMENTATION CONTROL MEASURES, AND TO FLAG SETBACKS AND CONSTRUCTION LIMITS.
- A MONTHLY REPORT TO THE ZONING ENFORCEMENT OFFICER BY THE APPLICANT'S ENGINEER SHALL INCLUDE A CERTIFICATION OF THE COMPLIANCE OF THE EROSION CONTROLS; A CERTIFICATION BY THE ENGINEER/SURVEYOR VERIFYING THAT THE SEDIMENTATION POND MEETS THE DESIGN PARAMETERS AS CONTAINED IN THE PLANS; AND A REPORT OF THE NUMBER OF TRUCKS ENTERING AND EXITING THE SITE FOR THE FOREGOING MONTH; TOGETHER WITH AN ESTIMATE OF THE MATERIAL REMOVED FOR THAT MONTH AND CUMULATIVE TO THE EFFECTIVE DATE OF THE SPECIAL PERMIT. THE SAME REPORT SHALL ALSO BE SUBMITTED TO THE TOWN ENGINEER FOR HIS REVIEW.
- EACH SECTION SHALL BE COMPLETED ACCORDING TO PLAN, INCLUDING THE SEGMENT OF THE PROPOSED ACCESS ROAD LOCATED IN THAT SECTION. BEFORE THE APPLICANT IS AUTHORIZED TO COMMENCE TO THE NEXT SECTION, HE SHALL PRESENT TO THE TOWN AN AS-BUILT PLAN ENCOMPASSING THE RESTORED AREA, STAGING AREA, AND THE SECTION OF COMPLETED ROAD. THE ACTIVE CONSTRUCTION AREA NEED NOT BE INCLUDED IN THE AS-BUILT PLAN. THIS AS-BUILT PLAN WILL NOTE ANY DEVIATIONS FROM THE APPROVED PLAN. CONSTRUCTION SHALL NOT COMMENCE ON THE NEXT SECTION UNTIL A PRE-CONSTRUCTION MEETING HAS BEEN HELD, AND THE TOWN ENGINEER HAS DETERMINED THAT THE PRIOR SECTION HAS BEEN COMPLETED SUBSTANTIALLY ACCORDING TO THE APPROVED PLANS AND THE SITE HAS BEEN RESTORED OR STABILIZED IN THE MANNER SET DOWN IN SHEETS C-12 AND C-14, AS AMENDED BY THE SPECIAL PERMIT APPROVAL.
- NO TRUCK SHALL TRAVEL ON QUARRY ROAD WHEN THERE IS ANY ICE OR SNOW ON THE TRAVEL PORTION OF THE ROAD. THE SITE OWNER SHALL BE RESPONSIBLE FOR ENSURING THAT EACH TRUCK DRIVER IS INFORMED OF THE LIMITING ROAD CONDITIONS AND HOURS OF OPERATION AND THE SITE OWNER SHALL BE RESPONSIBLE FOR COMPLIANCE WITH THESE REQUIREMENTS BY ALL TRUCK DRIVERS.
- THE HOURS OF OPERATION AND TRUCKING SHALL BE LIMITED TO THE HOURS BETWEEN 8:30 AM AND 4:00 PM, MONDAY THROUGH FRIDAY WITH NO OPERATIONS OR TRUCKING ON SATURDAYS, SUNDAYS AND STATE HOLIDAYS. NO TRUCKS SHALL ENTER OR LEAVE THE EXCAVATION SITE BEFORE 8:30 AM OR AFTER 4:00 PM. NO TRUCKS SHALL STAND OR IDLE ON QUARRY ROAD AT ANY TIME. THE MAXIMUM RATE OF LOADED TRUCKS LEAVING THE SITE SHALL NOT EXCEED TEN TRUCKS PER HOUR. WEEKLY THE SITE OWNER SHALL FILE A LOG WITH THE ZONING ENFORCEMENT OFFICER STATING THE DATE AND TIME AND WEIGHT OF EACH LOADED TRUCK LEAVING THE SITE.
- THE CONTRACTOR SHALL COMPLY WITH THE CONTRACT DOCUMENTS AND SPECIAL PERMIT CONDITIONS OF APPROVAL, AS INSPECTED BY ENGINEER OF RECORD.
- ALL TRUCKS ENTERING/EXITING THE SITE SHALL BE FROM/TO ROUTE 44 AND QUARRY ROAD SOUTH OF THE SITE ENTRANCE.
- ALL EQUIPMENT AND MACHINERY SHALL BE MAINTAINED IN GOOD REPAIR AND OPERATION IN SUCH A MANNER AS TO MINIMIZE NOISE, VIBRATION, SMOKE, DUST, UNSIGHTLY CONDITIONS AND ANY OTHER NUISANCE.
- ANY TRUCKLOAD OF EARTH MATERIAL WHICH IS TO TRAVEL ON A PUBLIC STREET SHALL BE COVERED WITH A TARPULIN OR OTHER SUITABLE MATERIAL. ALL COMMERCIAL HAULERS SHALL UTILIZE VEHICLES CLEARLY MARKED WITH THE HAULER'S NAME AND AN IDENTIFICATION NUMBER. VEHICLES WITH A HAULING CAPACITY OF LESS THAN 8 CUBIC YARDS SHALL BE EXEMPT FROM THE ABOVE MARKING/IDENTIFICATION REQUIREMENTS, BUT NOT FROM THE ABOVE MENTIONED SPILLAGE PREVENTION REQUIREMENTS.
- ALL WORK SHALL BE COMPLETED WITHIN TWO YEARS OF DATE OF SPECIAL PERMIT APPROVAL.
- CONTRACTOR SHALL MAINTAIN (2) 100' ROLLS OF SILT FENCE ON-SITE FOR EMERGENCY USE.
- THE ONLY EXCAVATION TO TAKE PLACE UNDER THIS PERMIT SHALL BE STRICTLY IN ACCORDANCE WITH THE APPROVED PLANS, AND THE VOLUME SHALL NOT EXCEED 200,000 CY OF EXCAVATED MATERIAL.

STANDARD ABBREVIATIONS

ADS	AT	DWG	DRAWING	PEP	PEDESTRIAN
ASTM	ADVANCED DRAINAGE SYSTEMS, INC., 58 WYOMING STREET, LUDLOW, MA 01058	E	EAST / ELECTRIC	PI	POINT OF INTERSECTION
B	AMERICAN SOCIETY FOR TESTING AND MATERIALS	ELEG	ELECTRIC	PI S	PINUS STROBUS
BC	BARE GROUND	EL/ELEV	ELEVATION	POT	POINT OF TANGENCY
BM	BENCH MARK	EX/EXIST	EXISTING	PRC	POINT OF REVERSE CURVATURE
BIT	BITUMINOUS	GW	GROUNDWATER	PT	POINT OF TANGENCY
BOT	BOTTOM	HOR	HORIZONTAL	PVC	POLYVINYL CHLORIDE
BSS	BOTTOM OF SOIL BORING	IN	INCHES	R/RAD	RADIUS
BR	BEDROCK	INC	INCORPORATED	REINF	REINFORCED
CB	CATCH BASIN	INV	INVERT	REV	REVISION
C / C/L	CENTER LINE	L	LENGTH OF CURVE	ROW	RIGHT OF WAY
OLF	CHAIN LINK FENCE	LT	LEFT	RY	RIGHT
CONV/CT	CONNECTICUT	LOC	LOCATION	SCH	SCHEDULE
CTDEP	CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION	LP	LIGHT POLE	SF	SQUARE FEET
CTDOT	CONNECTICUT DEPARTMENT OF TRANSPORTATION	MAX	MAXIMUM	S	SOUTH
CONC	CONCRETE	MIN	MINIMUM	STA	STATION
CD	CORRUGATED POLYETHYLENE PIPE	MSC	MISCELLANEOUS	STD	STANDARD
CP	CUBIC YARDS	NA	NOT APPLICABLE	STRM	STORM
CY	CUBIC YARDS	NIC	NOT IN CONTRACT	SL	STREET LINE
DIA	DIAMETER	N	NORTH	T	TANGENT LENGTH
DOT	DEPARTMENT OF TRANSPORTATION	NRCS	NATURAL RESOURCE CONSERVATION SERVICE	TF	TOP OF FRAME
		NTS	NOT TO SCALE	TYP	TYPICAL
		PC	POINT OF CURVATURE	USA	UNITED STATES OF AMERICA
		PCC	POINT OF COMPOUND CURVATURE	USDA	UNITED STATES DEPARTMENT OF AGRICULTURE
		PCPP	PERFORATED CORRUGATED POLYETHYLENE PIPE	VERT	VERTICAL
				YR	YEAR
				&	AND



KEY MAP

1"=500'



Bolton PZC
Special Permit / Site Plan
Approved November 12, 2008

5-Year Date for Completion
of Improvements:
September 16, 2015

Chairman/Secretary _____ Date Signed _____

THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE, DISCLOSURE OTHER THAN THAT WHICH RELATES TO HATHAWAY SAND AND GRAVEL, LLC IS STRICTLY PROHIBITED.

REVISIONS

NUMBER	DATE	REMARKS
1	4/7/08	REVISED SURVEY
2	7/9/08	PNZ COMMENTS
3	8/20/08	PNZ COMMENTS
4	11/18/10	PNZ CONDITIONS

**HATHAWAY
SAND & GRAVEL, LLC
EARTH EXCAVATION
PLANS**
TOWN OF
BOLTON, CONNECTICUT

PROJECT NO: 36928477.00

DRAWN BY: KMM

CHECKED BY: RGT

DATE: JANUARY 19, 2007

CADD FILE: C1.DWG

**LEGEND, NOTES,
STANDARD ABBREV.,
KEY MAP &
MISC. TABLES**

C1

SHEET 2 OF 31



Town of Bolton

222 BOLTON CENTER ROAD • BOLTON, CT 06043

LAND USE DEPARTMENT
(860) 649-8066

By Certified Mail

November 17, 2008

Mr. Milton Hathaway
Hathaway Sand & Gravel, LLC
10 Quarry Rd., Suite C
Bolton, CT 06043

Re: Hathaway Sand & Gravel: Application for Special Permit under Section 12, 40 Quarry Rd.

Dear Mr. Hathaway:

Please be advised that the Bolton Planning & Zoning Commission, at a Special Meeting held on November 12, 2008 voted unanimously to approve an application of Hathaway Sand & Gravel, LLC for a Special Permit to excavate 200,000 cubic yards of sand and gravel from property located at 40 Quarry Road, Bolton, Milton R. and Rosemary J. Hathaway, owners, in accordance with plans listed in Appendix "A" as modified to reflect the incorporation of these conditions, and with Exhibits listed in Appendix "B" appended hereto, and a part hereof; and in accordance with testimony received during a Public Hearing held on July 16, 2008, August 13, 2008, August 20, 2008, September 10, 2008, and September 17, 2008, and closed on September 17, 2008.

On September 17, 2008, the Commission concluded from the evidence in the record that there was a reasonable likelihood of the Applicant's conduct as set forth in this application causing unreasonable pollution, impairment, or destruction in the public trust in the air, water, or other natural resources of the state. Accordingly, the Commission hereby finds that required feasible and prudent alternatives will be adequately addressed through conditions imposed herein and the applicant's implementation and adherence thereto. (See section 22a-19(b) of the Connecticut General Statutes).

The Commission further found that the application complies with the following criteria, standards, and requirements of the Bolton Zoning Regulations, as follows, provided the applicant implements and adheres to the conditions contained herein:

- Section 12D. Criteria for Evaluating a Special Permit for Excavation

1

- Section 12E. Required Standards for a Special Permit for Excavation Operations
- Section 16A.2. Site Plan Review, as modified by a vote of the Commission held on November 12, 2008, to waive certain requirements of this section as authorized by Section 16A.2.p
- Section 16A.3. Criteria for Review of Site Plans;
- Section 16B.3.c. Special Permit Application
- Section 16B.4. Special Permit General Standards

This approval is also subject to the reasonable & prudent conditions and modifications of the plans and application, as follows:

- The Special Permit shall become effective upon the filing of the mylars in the Office of the Town Clerk. Such plans shall be filed within 90 days of this approval, unless the Commission extends such deadline for filing in accordance with Section 16B.5.b. of the Bolton Zoning Regulations.
- The Special Permit, with conditions, shall be filed in the Office of the Town Clerk no later than the filing of the mylar plans.
- No later than the date established for the filing of the mylar plans for this application, the applicant shall submit to the Town the following performance guarantees:
 - An Irrevocable Letter of Credit in the amount of \$65,000 to ensure repairs to Quarry Road occasioned by the traffic generated by this application, and extending from the intersection of Route 44 and the access drive to 40 Quarry Road, as well as 10 feet north of the 40 Quarry Road access. This bond shall remain in full force and effect until the Special Permit has expired, or until any damaged road sections are repaired, whichever is later.
 - Performance guarantees to the Town totaling \$135,182 to ensure general erosion control during the course of construction. 85% of that amount (\$114,905) shall be in the form of an Irrevocable Letter of Credit and the balance (\$20,277) shall be in the form of a Passbook Savings Account deposited with the Town of Bolton.
 - An Irrevocable Letter of Credit in the amount of \$40,000 to guarantee the regrading of the site to maximum 3:1 slopes and final restoration in the event that the applicant fails to complete the project as set down in the plans listed in Appendix "A".
 - An Irrevocable Letter of Credit in the amount of \$356,350 to guarantee site restoration and reforestation.
 - No such Letter of Credit or other performance guarantee shall terminate until released by vote of the Commission upon satisfactory completion and acceptance by the Commission of all work as guaranteed. All Letters of Credit shall be in a form acceptable to the Director of Finance.
- This approval is subject to the modification of the plans to reflect the following conditions of approval:

2

- The preconstruction meeting shall not commence until the mylars of the approved plans and Special Permit are filed in the Office of the Town Clerk; the bonds are submitted; the erosion control measures relating to the section about to commence are installed; the limits of construction are marked in the field as set down in the plans listed in Appendix "A"; and the 300-foot limits are staked / flagged in the field. The applicant shall provide his engineer's certification that the Erosion and Sedimentation control measures have been installed in accordance with the Connecticut Guidelines for Soil Erosion and Sediment Control.
- The preconstruction meeting shall be held on-site, and shall be attended by the applicant; the site and hauling contractor / foreman; Town Engineer; Applicant's engineer / surveyor; Director of Community Development; Bolton Wetlands Agent; and Bolton Zoning Enforcement Officer. The purpose of the preconstruction meeting is to ensure that all parties are cognizant of the plan and approval requirements. The participants shall confirm the adequacy of the final three measures listed in Condition # 4a, above. This preconstruction meeting shall be held at the commencement of each 2-acre section attended by the same parties as in the initial preconstruction meeting. The Engineer's Certification of erosion controls as set down in 4a, above, shall be applicable to each section.
- Construction, including the clearing of vegetation, shall not commence until such time as the preconstruction meeting has been held, the only exception being any minor disturbance / vegetation removal necessary to install erosion & sedimentation control measures, and to flag setbacks and construction limits.
- The applicant shall at all times maintain a sediment basin within each section designed with a minimum freeboard of two (2) feet in the event of 100-year storm. The plans shall be amended if necessary to reflect this requirement. The minimum depth of basin shall be increased from 5 feet to 7 feet on sheet 8.0; from 3 feet to 5 feet on Sheet 8.1; from 3 feet to 5 feet on Sheet 8.2; and from 3 feet to 5 feet on drawing C8.3. The notes and plan details shall be amended to reflect these changes. The applicant's engineer / surveyor shall confirm on a monthly basis that the pond meets the standards set down in the approved plans, and as modified to meet the minimum depth and freeboard standards set down herein. The monthly report shall include this verification.
- Construction Note #2, sheet C-1 shall be modified to reflect that inspection of erosion control measures by one of the certified professionals listed shall occur no less frequently than monthly, but also within 24 hours of a rainfall exceeding 1 inch in 24 hours. To determine the applicable rainfall, the applicant shall establish a rainfall monitoring device to determine when a threshold storm occurs. The applicant or his agent shall notify the Zoning Enforcement Officer of such a documented event within 24 hours of the storm (or, from a weekend, by the following Monday).

3

- Each section shall be completed according to plan, including the segment of the proposed access road located in that section. Before the applicant is authorized to commence to the next section, he shall present to the Town an as-built plan encompassing the restored area, staging area, and the section of completed road. The active construction area need not be included in the as-built plan. This as-built plan will note any deviations from the approved plan. Construction shall not commence on the next section until a preconstruction meeting has been held, and the Town Engineer has determined that the prior section has been completed substantially according to the approved plans and the site has been restored or stabilized in the manner set down in sheets C-12 and C-14, as amended by this approval.
- The applicant shall revise the plans to depict the stabilization of the area immediately below the outfall from the north detention pond extending to Railroad Brook along an existing dirt trail, by utilizing water bars or other form of diversion to divert runoff at intervals to the adjoining vegetated area, and by loaming, seeding, and mulching all such exposed areas in accordance with the measures outlined in notes 10, 11, and 12 of Map C12, Soil Erosion and Sedimentation Control Details and Notes. In amending the plans, the applicant's surveyor shall field verify the topography to the accuracy of a T-2 standard extending from the terminus of the rip-rap outfall to Railroad Brook. Should the gradient between these points increase by more than 1.5% over the topography depicted in the plans listed in Appendix "A", the applicant shall apply to the Planning & Zoning Commission for a modification to this Special Permit, which modification will require a Public Hearing. The applicant shall plant indigenous wetland shrubs as directed by the Bolton Wetlands Agent in the area immediately proximate to Railroad Brook. The applicant may retain a trail through this area provided it is not co-located with the path of the storm water discharge, and the applicant shall make it sinuous so as to avoid collection of runoff, and shall stabilize the trail with wood chips. In either event, the plan shall also be subject to the approval of the Town Engineer, who shall submit a letter confirming his approval to the Commission. Such approval by the Town Engineer, and by the Commission, if necessary, and the work on the outfall area extending to the Brook shall precede the completion of the detention pond outfall and discharge. The Commission will yield to the Inland Wetland Commission in its judgment as to whether such activities located within the upland review area require a wetlands permit, or are considered as off-right maintenance operations.
- Sheet C-1, Note 17, and sheet C-12 shall be amended to reflect that repairs to E&S measures shall be conducted within 48 hours, and not 1 week.
- Note 13 on Sheet C-1 shall be amended to indicate that should any blasting be required to move or break up large glacial boulders, the applicant shall notify the Zoning Enforcement Officer within 48 hours of

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Bolton PZC
Special Permit / Site Plan
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of Improvements:
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Chairman/Secretary Date Signed

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REVISIONS

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2	7/9/08	PNZ COMMENTS
3	8/20/08	PNZ COMMENTS
4	11/18/10	PNZ CONDITIONS

HATHAWAY
SAND & GRAVEL, LLC
EARTH EXCAVATION
PLANS
TOWN OF
BOLTON, CONNECTICUT

PROJECT NO: 36928477.00

DRAWN BY: KMM

CHECKED BY: RGT

DATE: JANUARY 19, 2007

CADD FILE: C1-1.DWG

SPECIAL PERMIT
APPROVAL LETTER

C1.1

SHEET 3 OF 31

the intended blasting activity which shall be conducted by individuals with a permit to blast in the Town of Bolton.

- Note 10, Sheet C-1 shall be amended to reflect that the operation of the rubberized mobile screening unit shall not take place within the 300' setback from property lines.
- Note 20, Sheet C-1 shall be amended by adding the following language: "No trucks shall enter or leave the excavation site before 8:30 AM or after 4:00 PM. No trucks shall stand or idle on Quarry Road at any time."
- No later than the date for filing of the final mylar plans, the applicant shall present to the Commission a detailed reforestation plan acceptable to the Commission, prepared by a licensed or accredited commercial forester, which plan shall include a diverse planting plan consisting of species generally indigenous to this site and area.
- The plans shall be amended to reflect that the monthly report to the Zoning Enforcement Officer by the applicant's engineer shall include a certification of the compliance of the erosion controls; a certification by the surveyor that the sedimentation pond meets the design parameters as contained in the plans as modified by this approval, including the compliance with the freeboard requirements set down herein; and a report of the number of trucks entering and exiting the site for the foregoing month, together with an estimate of the material removed for that month and cumulative to the effective date of the Special Permit. This same report shall also be submitted to the Town Engineer for his review.

This Special Permit shall not become effective until the passage of the appeal period, the filing of the mylar plans in the office of the Town Clerk, and the submission of the performance guarantees listed above.

Should you have any questions concerning this Permit, please feel free to contact me at 860-649-8066, x114.

Very truly yours,

John D. Pagini, AICP
Interim Director of Community Development

Cc: Ann M. Catino, Halloran & Sage, LLP
Robert Tedeschi, PE, URS
Kevin McCutchan, EIT, URS
Peter Van Dine (Intervener)
Pat Dobransky (Intervener)

5

Stanley Falkenstein, Esq. (Atty. For Interveners)
PZC
Rodney Darles, Chairman, Conservation Commission
Gwen E. Marston, Chairman, Bolton, Inland Wetlands Commission
Joyce Stille, Administrative Officer
Joe Dillon, Town Engineer
James Rupert, ZEO
Cathy Gudeahn, Land Use Secretary
Barbara Kelly, Wetlands Agent
Gerry McCall, Director of Finance
Leonard Tundermann, AICP, Town Planner, Town of Vernon
Craig W. Perry, Wetlands Enforcement Officer, Town of Vernon



Town of Bolton

222 BOLTON CENTER ROAD • BOLTON, CT 06043

By Certified Mail

March 14, 2011

Mr. Milton Hathaway
Hathaway Sand and Gravel, LLC
40 Quarry Road
Bolton, CT 06043

Re: Minor amendments to the Special Permit of Hathaway Sand and Gravel, LLC concerning conditions of approval relative to the effective date of the Special Permit; recording of the Special Permit; performance guarantees, and the reforestation plan

Dear Mr. Hathaway:

Please be advised that at a Special Meeting of the Bolton Planning & Zoning Commission held on March 9, 2011, the Commission voted 6-0-1 to approve the following modifications to the conditions of approval relative to the effective date of the Special Permit; recording of the Special Permit; performance guarantees, and the reforestation plan, as follows:

- Condition #1 is amended to read as follows:

The Special Permit shall become effective upon the recording of the Special Permit and the filing of the mylars in the Office of the Town Clerk. The mylars shall be filed by March 15, 2011.

- Condition # 2 is amended to read as follows:

The Special Permit, with conditions, shall be filed in the Office of the Town Clerk prior to the issuance of the Zoning Permit, but in any event no later than June 29, 2011.

- Condition #3 is amended to read as follows:

Prior to the issuance of a Zoning Permit for this application, the applicant shall submit to the Town the following performance guarantees (the remaining wording of the condition remains the same):

- Condition #4.m is amended to read as follows:

Prior to the issuance of a Zoning Permit, the applicant shall present to the Commission a detailed reforestation plan acceptable to the Commission, prepared by a licensed or accredited commercial

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forester, which plan shall include a diverse planting plan consisting of species generally indigenous to this site and area.

- All other conditions of approval shall remain in effect except as expressly modified by this action. Should you have any questions concerning this action, please feel free to contact me at 860-649-8066, ext. 114.

Very truly yours,

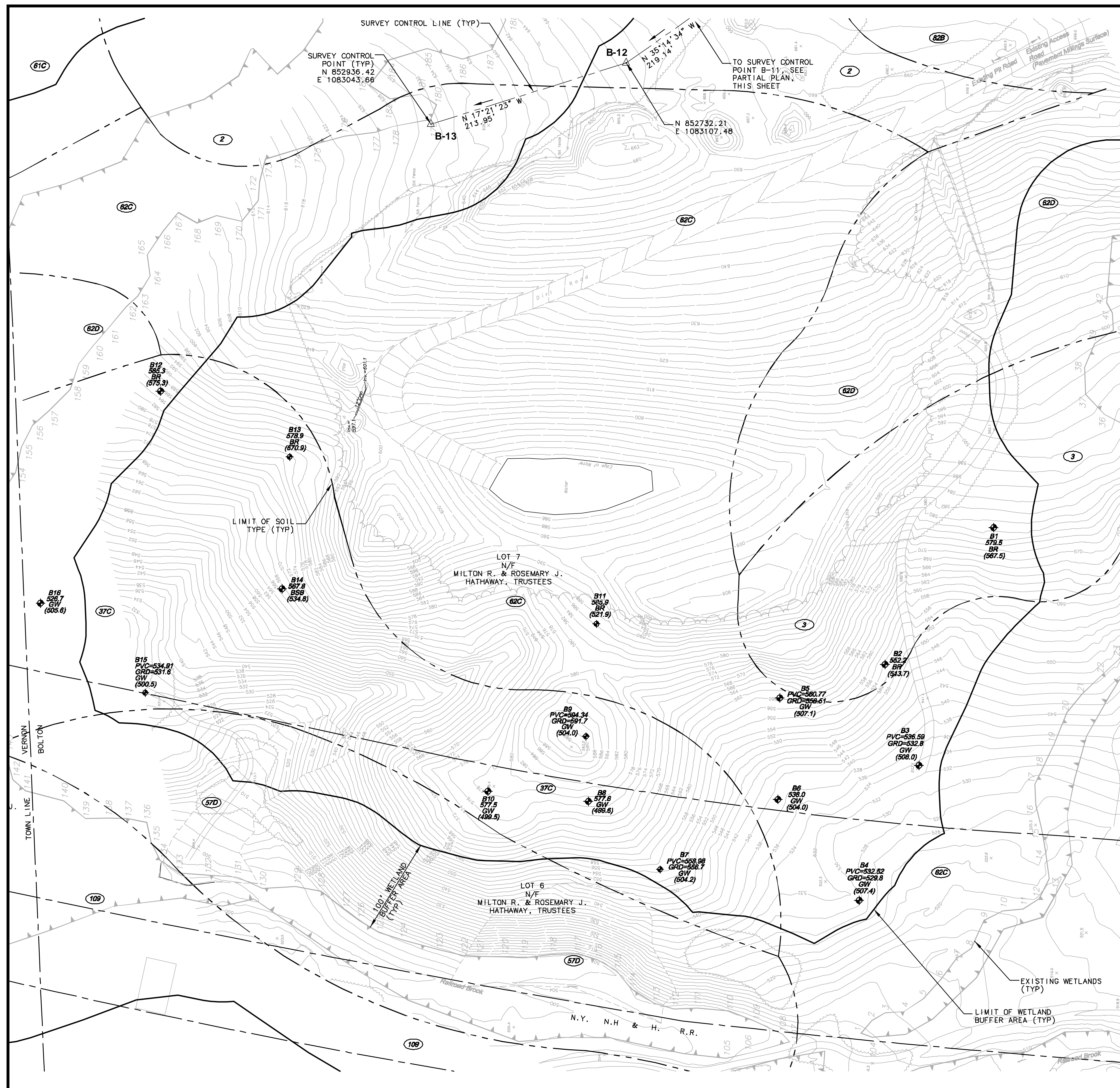
John D. Pagini, AICP

Director of Community Development

Cc:

Joyce Stille
Joe Dillon
Lance Diawick
Barbara Kelly
Kevin McCutchan, URS Corp.
Peter Van Dine

File: Special Permit, Hathaway Sand and Gravel; Modifications



EXISTING CONDITIONS PLAN NOTES

1. THE EXISTING CONDITIONS PLAN IS BASED ON AN AERIAL TOPOGRAPHIC MAPPING BY AXIS GEOSPATIAL, LLC. DATE OF FLIGHT IS APRIL 20, 2008. THE TOPOGRAPHIC MAPPING MEETS T-3 STANDARDS. THE EXISTING CONDITIONS WERE REVISED PER "TOPOGRAPHIC SURVEY, EXISTING SAND & GRAVEL EXCAVATION AREA, QUARRY ROAD, BOLTON, CONNECTICUT" PREPARED FOR HATHAWAY SAND GRAVEL, LLC BY URS CORPORATION AES DATED FEBRUARY 2008.
2. ALL ELEVATIONS SHOWN ARE BASED ON THE NGVD OF 1929.
3. GEOTECHNICAL DATA SHOWN ON THE PLAN REFERENCES REPORT DONE BY URS CORPORATION, AES, DATED JANUARY 2007.
4. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
5. BASE INFORMATION HAS BEEN PREPARED BY URS CORPORATION, AES AND AXIS GEOSPATIAL, LLC IN ACCORDANCE WITH THE REGULATIONS OF CONNECTICUT STATE AGENCIES, SECTIONS 20-300b-1 THRU 20-300b-20, AND THE "STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON SEPTEMBER 26, 1996. THE TYPE OF SURVEY IS A T-2 & T3 TOPOGRAPHIC SURVEY. THE HORIZONTAL AND VERTICAL ACCURACY CONFORMS TO CLASS A-2 & V-2 ACCURACY.
6. PROPERTY LINES HAVE BEEN COMPILED BY URS CORPORATION, AES FROM ACCESSOR MAPPING, AND SHALL BE CONSIDERED APPROXIMATE BY NATURE.



Bolton PZC
Special Permit / Site Plan
Approved November 12, 2008
5-Year Date for Completion
of Improvements:
September 16, 2015

Chairman/Secretary _____ Date Signed _____

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REVISIONS

NUMBER	DATE	REMARKS
1	4/7/08	REVISED SURVEY
2	7/9/08	PNZ COMMENTS
3	8/20/08	PNZ COMMENTS
4	11/18/10	PNZ CONDITIONS

HATHAWAY SAND & GRAVEL, LLC
EARTH EXCAVATION PLANS
TOWN OF BOLTON, CONNECTICUT

PROJECT NO: 36928477.00

DRAWN BY: KMM

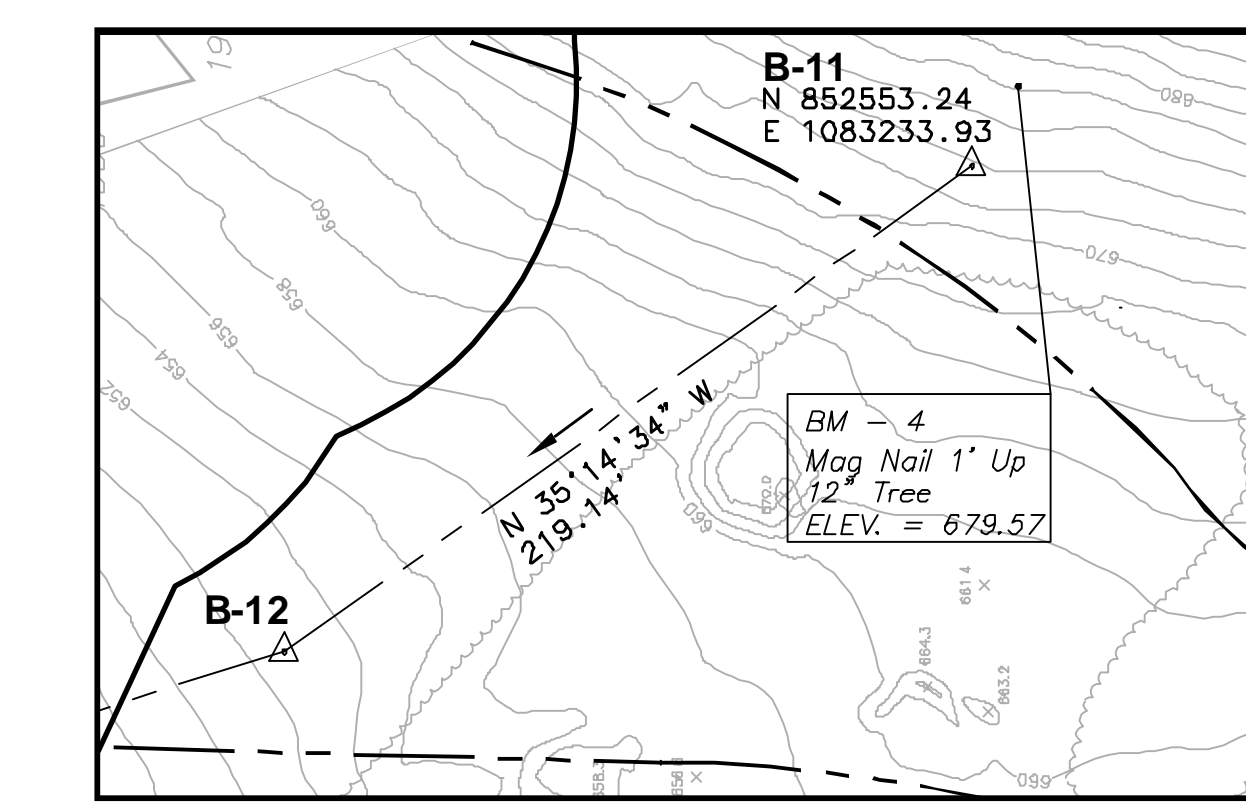
CHECKED BY: RGT

DATE: JANUARY 19, 2007

CADD FILE: C2.DWG

EXISTING CONDITIONS PLAN

C2
SHEET 4 OF 31



PARTIAL PLAN

SITE USDA NRCS SOIL DATA

- (2) - RIDGEBURY FINE SANDY LOAM
- (3) - RIDGEBURY, LEICESTER, AND WHITMAN SOILS, EXTREMELY STONY
- (37C) - MANCHESTER GRAVELLY SANDY LOAM, 3 TO 15 PERCENT SLOPES
- (57D) - GLOUCESTER GRAVELLY SANDY LOAM, 15 TO 25 PERCENT SLOPES
- (61C) - CANTON AND CHARLTON SOILS, 8 TO 15 PERCENT SLOPES, VERY STONY
- (62C) - CANTON AND CHARLTON SOILS, 3 TO 15 PERCENT SLOPES, EXTREMELY STONY
- (62D) - CANTON AND CHARLTON SOILS, 15 TO 35 PERCENT SLOPES, EXTREMELY STONY
- (82B) - BROADBROOK SILT LOAM, 3 TO 8 PERCENT SLOPES
- (10B) - FLUVAQUENTS - UDIFLUENTS COMPLEX, FREQUENTLY FLOODED

SITE CROSS SECTIONS PLAN

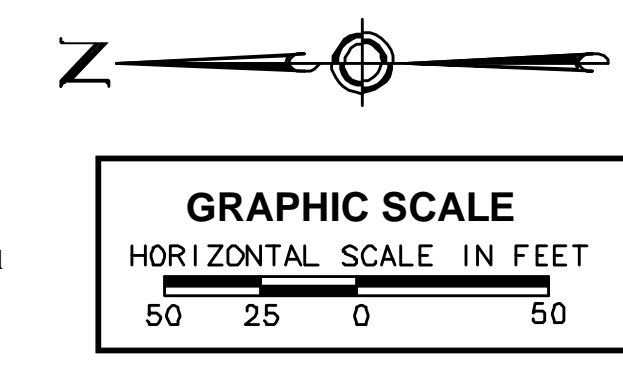
LEGEND

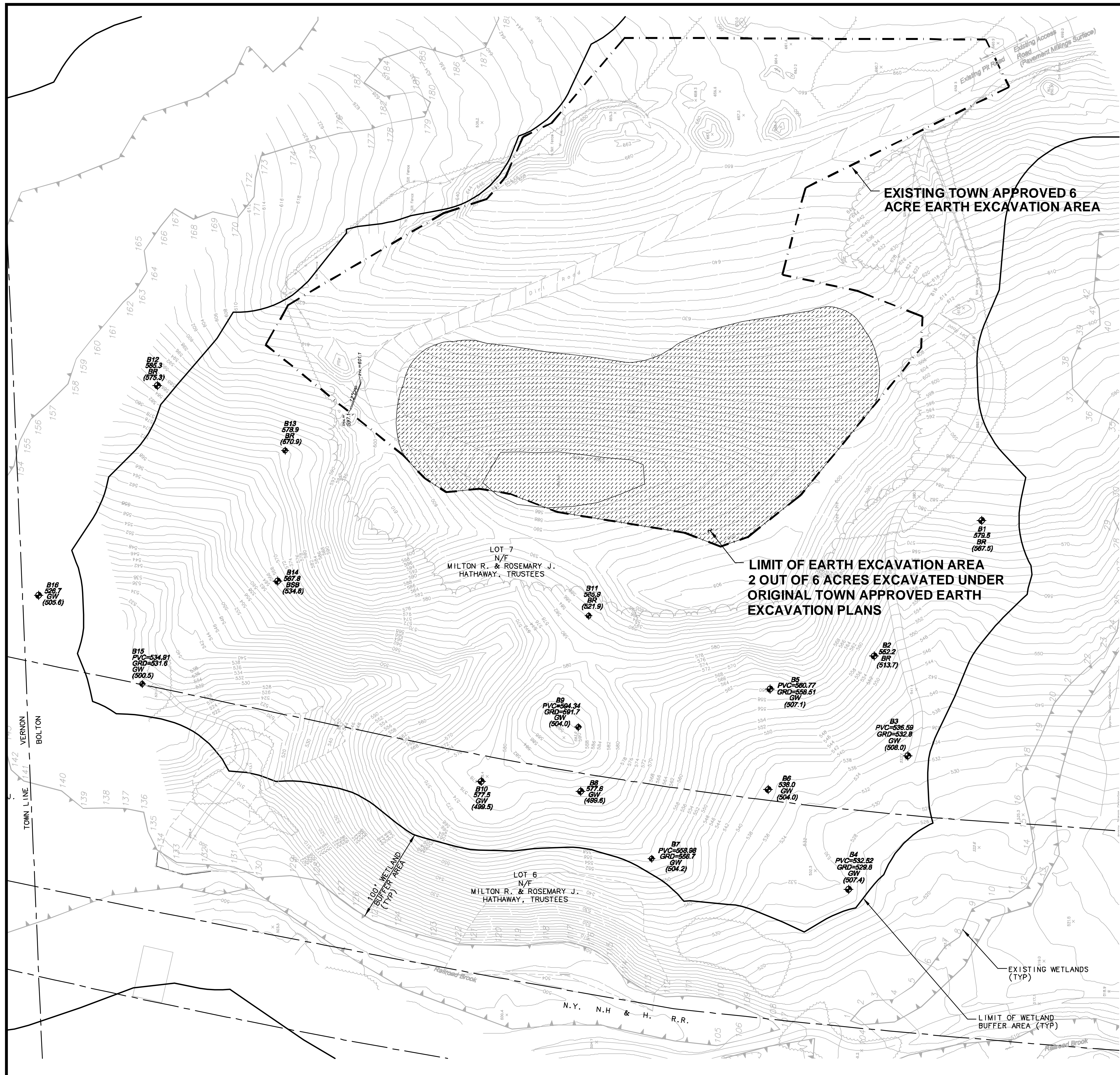
- B11 585.9 BR (521.9) - BORING NUMBER, EXISTING GRADE ELEVATION, LIMITING FACTOR DESCRIPTION, LIMITING FACTOR ELEVATION, BORING LOCATION
- B4 PVC=532.52 GRD=529.8 GW (507.4) - BORING NUMBER, TOP OF PVC MONITORING WELL ELEVATION, EXISTING GRADE ELEVATION, LIMITING FACTOR DESCRIPTION, LIMITING FACTOR ELEVATION, BORING LOCATION

LIMITING FACTORS

- BR = BEDROCK ELEVATION + 4'
- GW = GROUNDWATER ELEVATION + 2'
- BSB = BOTTOM OF SOIL BORING

I, John P. Janni a Connecticut Certified Soil Scientist, certify that the wetland soils shown on this map reflect the wetland delineation flagging that I have marked in the field. Identification of non-wetland soils was taken from USDA Soil Conservation Service Maps.





PLAN NOTES

- SEE ADDITIONAL CIVIL GENERAL NOTES AND EARTH EXCAVATION NOTES, SHEET C1.

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 URS CORPORATION AES
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 ROCKY HILL, CT 06067
 1-(860)-529-8882

Bolton PZC
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 TOWN OF BOLTON, CONNECTICUT

PROJECT NO: 36928477.00

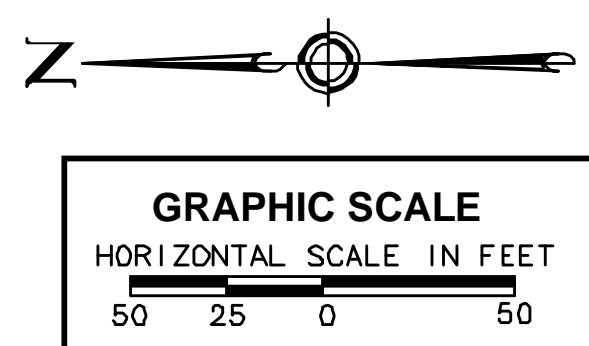
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CHECKED BY: RGT

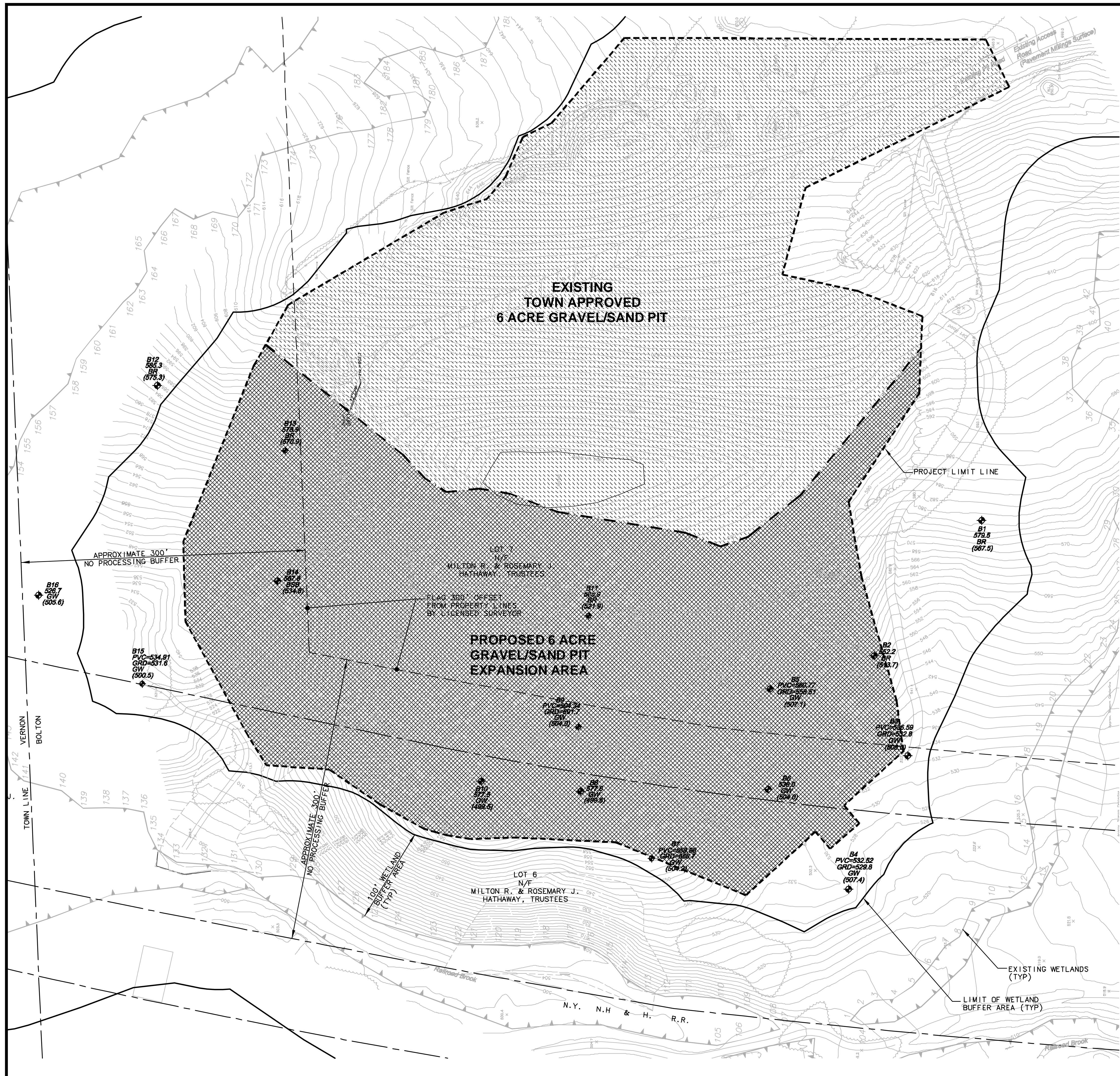
DATE: JANUARY 19, 2007

CADD FILE: C2-1.DWG

EXISTING TOWN APPROVED GRAVEL/SAND PIT



C2.2



PLAN NOTES

- SEE ADDITIONAL CIVIL GENERAL NOTES AND EARTH EXCAVATION NOTES, SHEET C1.

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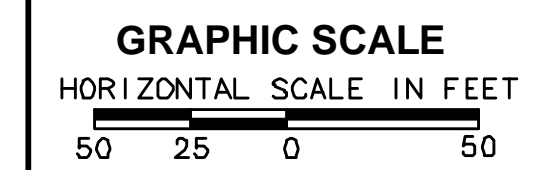
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CHECKED BY: RGT

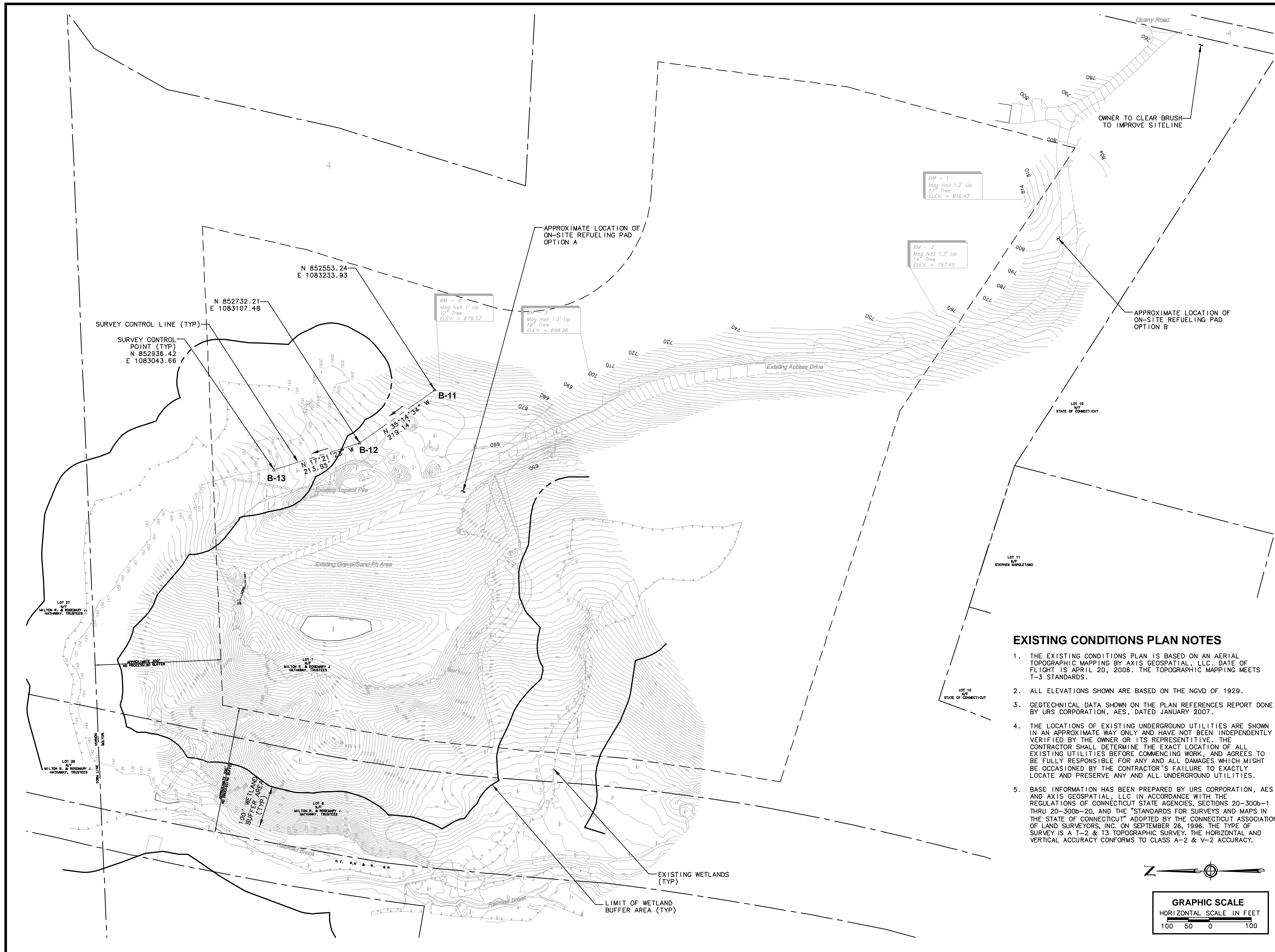
DATE: JANUARY 19, 2007

CADD FILE: C2-2.DWG

TOWN APPROVED GRAVEL/SAND PIT & GRAVEL/SAND PIT EXPANSION AREA



C2.3



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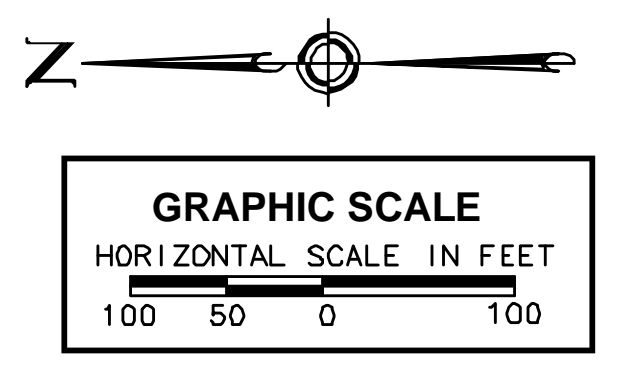
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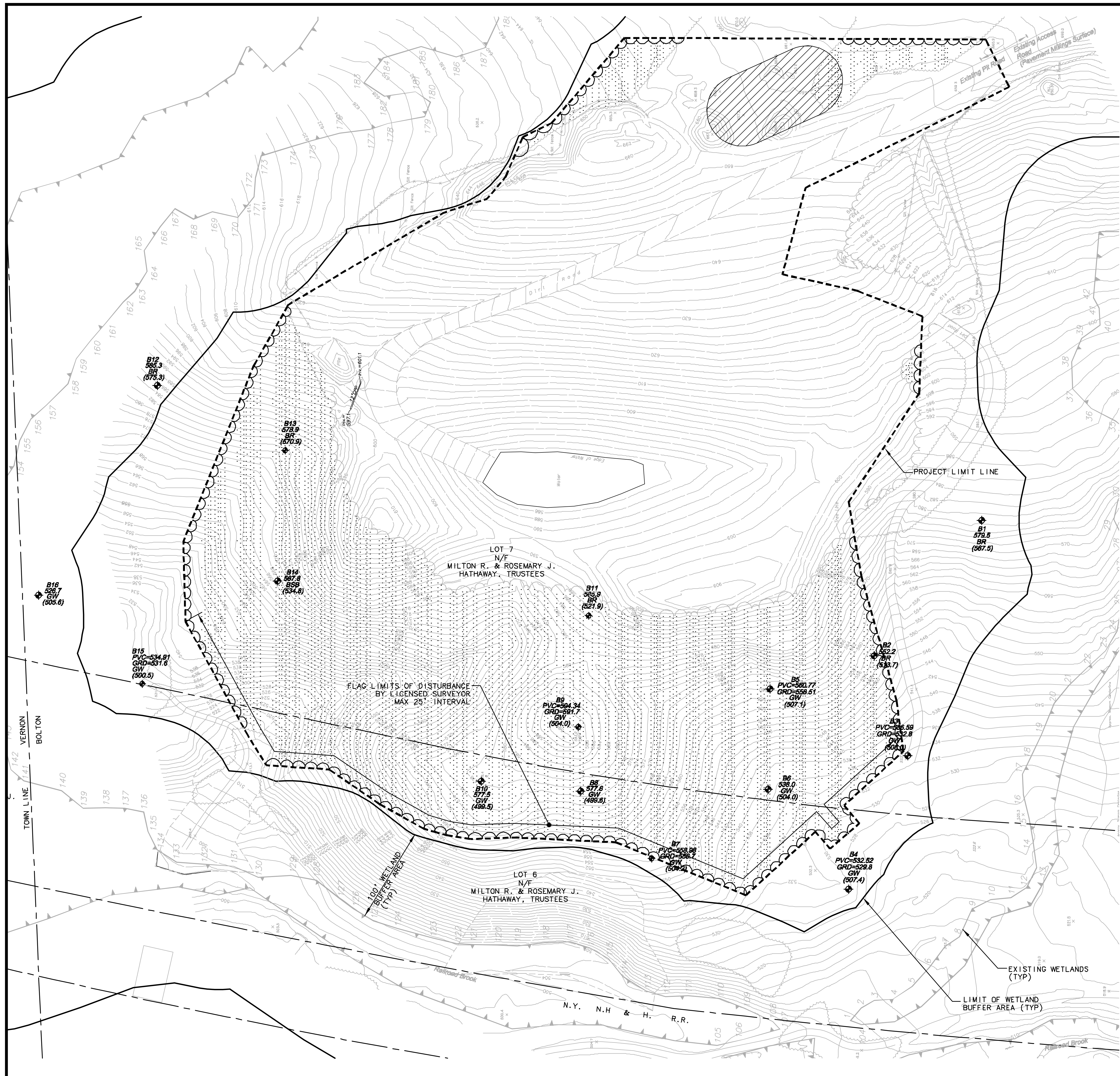
**OVERALL EXISTING
 CONDITIONS
 PLAN**

C2.4
 SHEET 8 OF 31

EXISTING CONDITIONS PLAN NOTES

1. THE EXISTING CONDITIONS PLAN IS BASED ON AN AERIAL TOPOGRAPHIC MAPPING BY AXIS GEOSPATIAL, LLC. DATE OF FLIGHT IS APRIL 20, 2006. THE TOPOGRAPHIC MAPPING MEETS T-3 STANDARDS.
2. ALL ELEVATIONS SHOWN ARE BASED ON THE NGVD OF 1929.
3. GEOTECHNICAL DATA SHOWN ON THE PLAN REFERENCES REPORT DONE BY URS CORPORATION, AES, DATED JANUARY 2007.
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5. BASE INFORMATION HAS BEEN PREPARED BY URS CORPORATION, AES AND AXIS GEOSPATIAL, LLC IN ACCORDANCE WITH THE REGULATIONS OF CONNECTICUT STATE AGENCIES, SECTIONS 20-300b-1 THRU 20-300b-20, AND THE "STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON SEPTEMBER 26, 1996. THE TYPE OF SURVEY IS A T-2 & T3 TOPOGRAPHIC SURVEY. THE HORIZONTAL AND VERTICAL ACCURACY CONFORMS TO CLASS A-2 & V-2 ACCURACY.





SITE DEMOLITION PLAN NOTES

1. CONTRACTOR TO PROTECT TREES TO REMAIN PRIOR TO ANY DEMOLITION/SALVAGE WORK. CONTRACTOR SHALL COORDINATE WITH RESTORATION PLAN.
2. THE CONTRACTOR SHALL TAKE EXTREME CARE TO PROTECT ALL EXISTING STRUCTURES, SURFACE IMPROVEMENTS, LANDSCAPING, ETC. OUTSIDE THE PROJECT LIMIT LINE AND SHALL RESTORE ANY DAMAGE TO THESE ITEMS TO PRE-DAMAGED CONDITION OR BETTER.
3. THE CONTRACTOR SHALL "CALL BEFORE YOU DIG" (1-800-922-4455) AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION OPERATION.
4. SEE ADDITIONAL CIVIL GENERAL NOTES AND EARTH EXCAVATION NOTES, SHEET C1.
5. PROTECTION OF EXISTING TREES SHALL CONFORM TO THE CTDEP "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL," REVISED 2002.

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HATHAWAY SAND & GRAVEL, LLC
EARTH EXCAVATION PLANS
 TOWN OF BOLTON, CONNECTICUT

PROJECT NO: 36928477.00

DRAWN BY: KMM

CHECKED BY: RGT

DATE: JANUARY 19, 2007

CADD FILE: C3.DWG

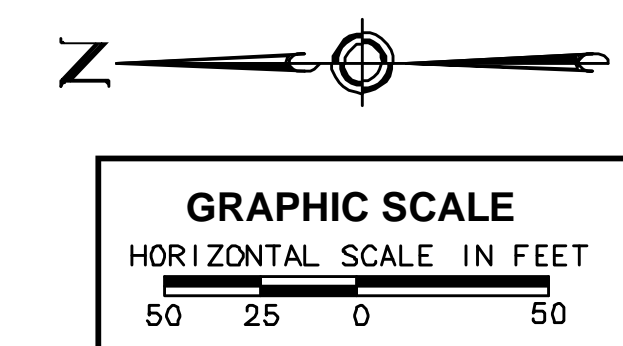
SITE DEMOLITION PLAN

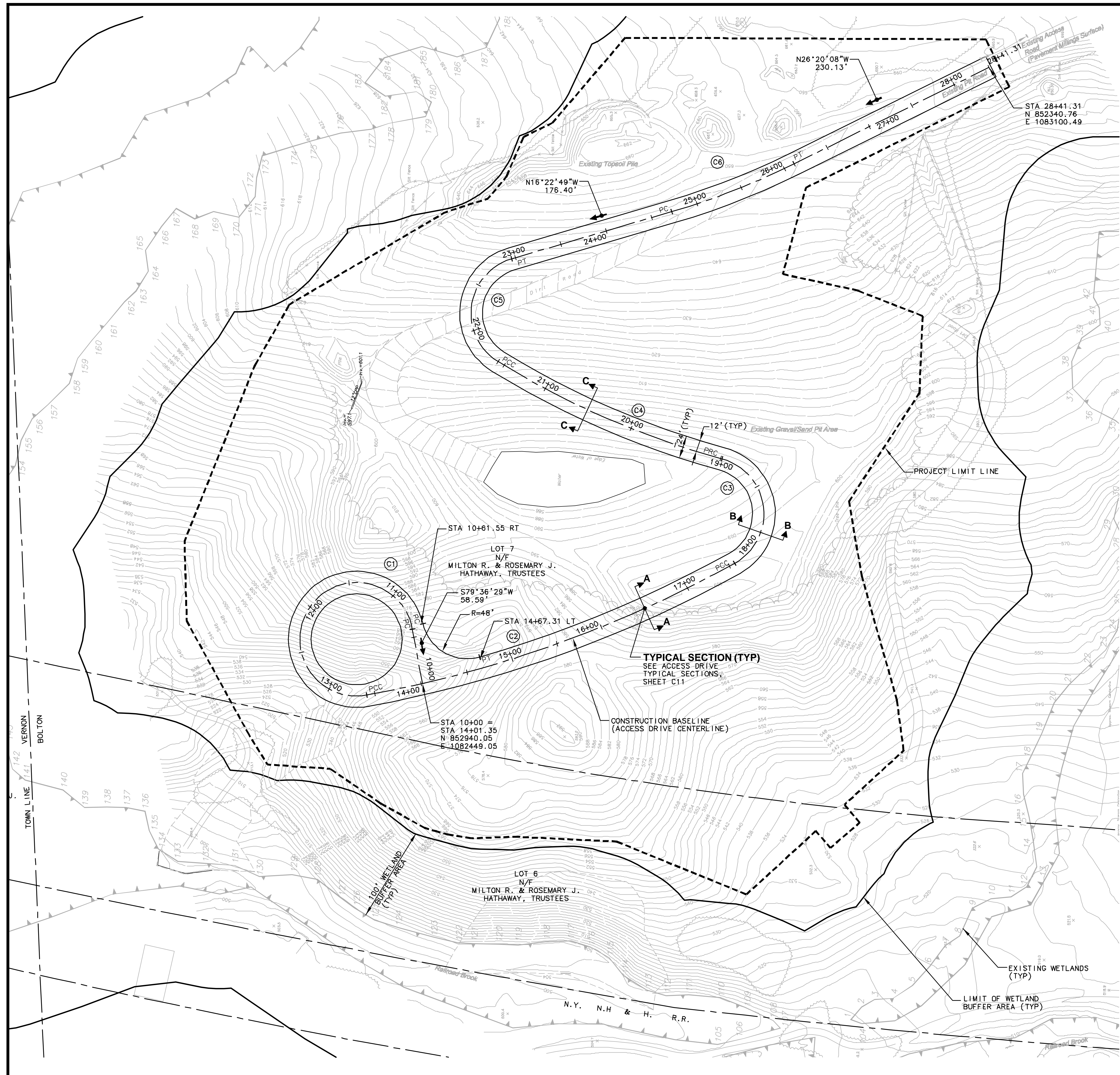
C3

SHEET 9 OF 31

SITE DEMOLITION PLAN LEGEND

- PROJECT LIMIT LINE
- ~~~ LIMIT OF TREE REMOVAL
- [Dotted Pattern] REMOVE TREES, BRUSH, ETC. (STUMPS TO REMAIN UNTIL EXCAVATION STAGE)
- [Hatched Pattern] WINDROWED STUMP AREA





SITE LAYOUT PLAN NOTES

1. THE CONTRACTOR SHALL "CALL BEFORE YOU DIG" (1-800-922-4455) AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION OPERATION.
2. SEE ADDITIONAL CIVIL GENERAL NOTES AND EARTH EXCAVATION NOTES, SHEET C1.

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 500 ENTERPRISE DRIVE
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Bolton PZC
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REVISIONS

NUMBER	DATE	REMARKS
1	4/7/08	REVISED SURVEY
2	7/9/08	PNZ COMMENTS
3	8/20/08	PNZ COMMENTS
4	11/18/10	PNZ CONDITIONS

HATHAWAY SAND & GRAVEL, LLC
 EARTH EXCAVATION PLANS
 TOWN OF BOLTON, CONNECTICUT

PROJECT NO: 36928477.00

DRAWN BY: KMM

CHECKED BY: RGT

DATE: JANUARY 19, 2007

CADD FILE: C4.DWG

SITE LAYOUT PLAN

C4

SHEET 10 OF 31

CURVE DATA

C1	
P.C.	STA 10+58.59 N 852950.62 E 1082506.67
C	N 853009.64 E 1082495.85
P.C.C.	STA 13+41.33 N 852998.82 E 1082436.83
R	60.00'
L	282.74'
T	60.00'
Δ	270°00'00"

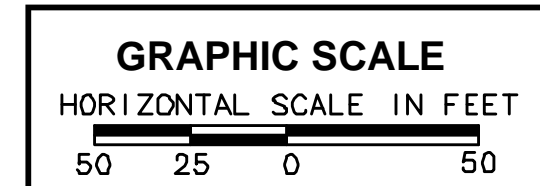
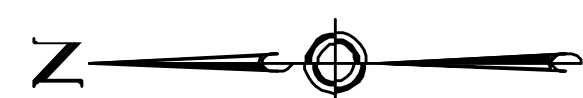
C2	
P.C.C.	STA 13+41.33 N 852998.82 E 1082436.83
P.I.	N 852792.90 E 1082474.60
P.C.C.	STA 17+56.33 N 852609.87 E 1082576.22
R	1275.00'
L	415.00'
T	209.35'
Δ	18°38'57"

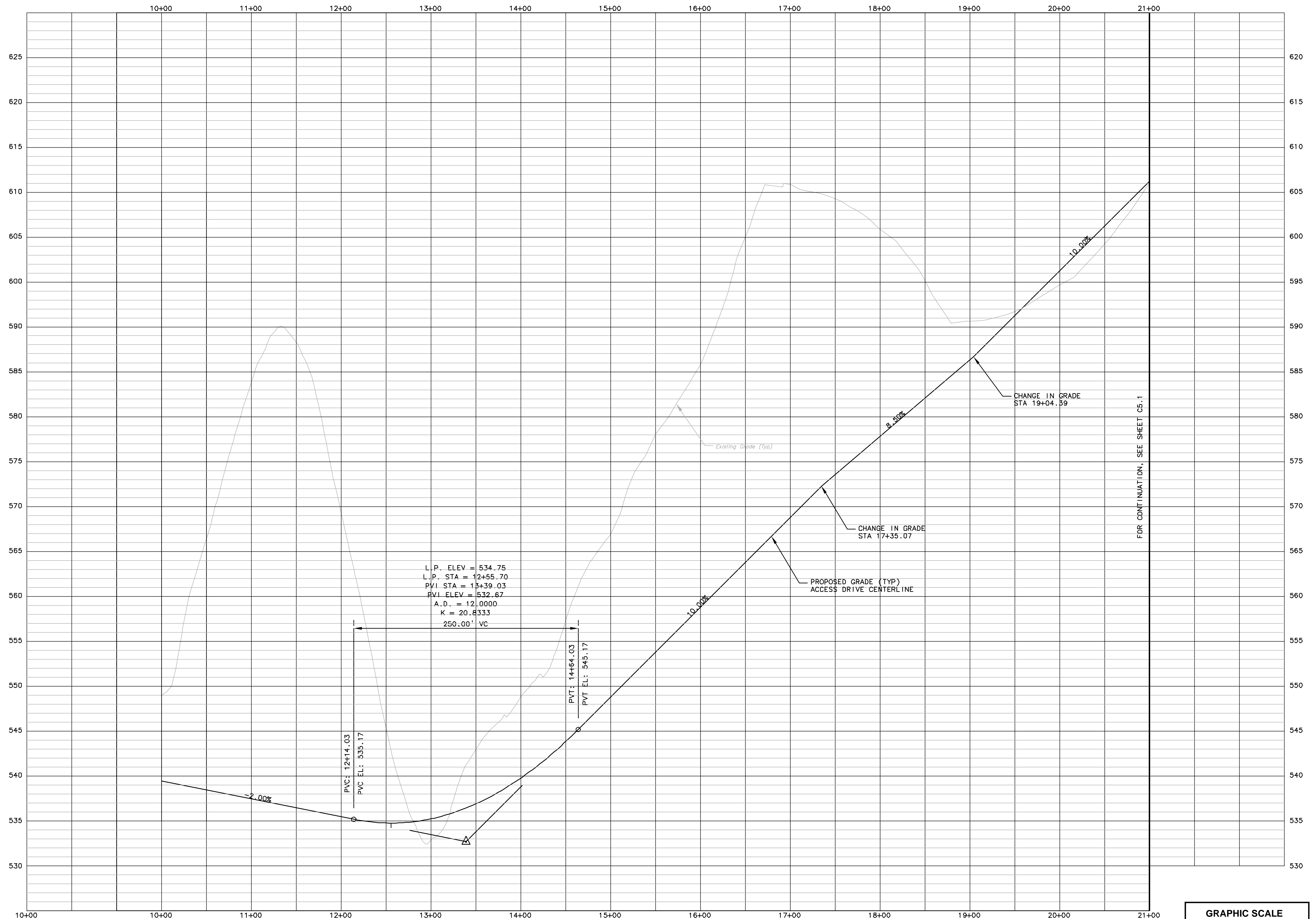
C3	
P.C.C.	STA 17+56.33 N 852609.87 E 1082576.22
P.I.	N 852481.19 E 1082647.67
P.R.C.	STA 18+98.38 N 852623.15 E 1082686.55
R	60.00'
L	142.05'
T	147.19'
Δ	135°38'38"

C4	
P.R.C.	STA 18+98.38 N 852623.15 E 1082686.55
P.I.	N 852748.99 E 1082721.01
P.C.C.	STA 21+57.57 N 852860.08 E 1082789.45
R	910.00'
L	259.19'
T	130.48'
Δ	16°19'09"

C5	
P.C.C.	STA 21+57.57 N 852860.08 E 1082789.45
P.I.	N 852974.78 E 1082860.11
P.T.	STA 22+95.78 N 852845.53 E 1082898.10
R	60.00'
L	138.21'
T	134.72'
Δ	131°59'07"

C6	
P.C.	STA 24+72.18 N 852676.29 E 1082947.84
P.I.	N 852609.45 E 1082967.49
P.T.	STA 26+11.18 N 852547.00 E 1082998.40
R	800.00'
L	139.00'
T	69.88'
Δ	09°57'19"



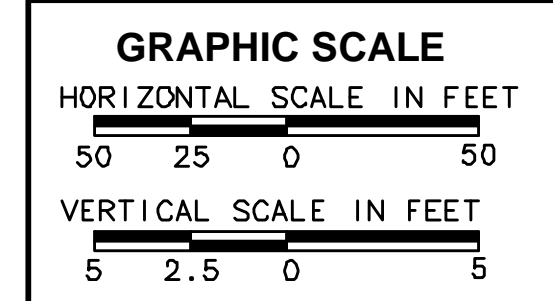


L.P. ELEV = 534.75
 L.P. STA = 12+55.70
 PVI STA = 13+39.03
 PVI ELEV = 532.67
 A.D. = 12.0000
 K = 20.8333
 250.00' VC

PVC: 12+14.03
 PVC EL: 535.17

PVT: 14+64.03
 PVT EL: 545.17

FOR CONTINUATION, SEE SHEET C5.1



URS
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 500 ENTERPRISE DRIVE
 ROCKY HILL, CT 06067
 1-(860)-529-8882

Bolton PZC
 Special Permit / Site Plan
 Approved November 12, 2008
 5-Year Date for Completion
 of Improvements:
 September 16, 2015

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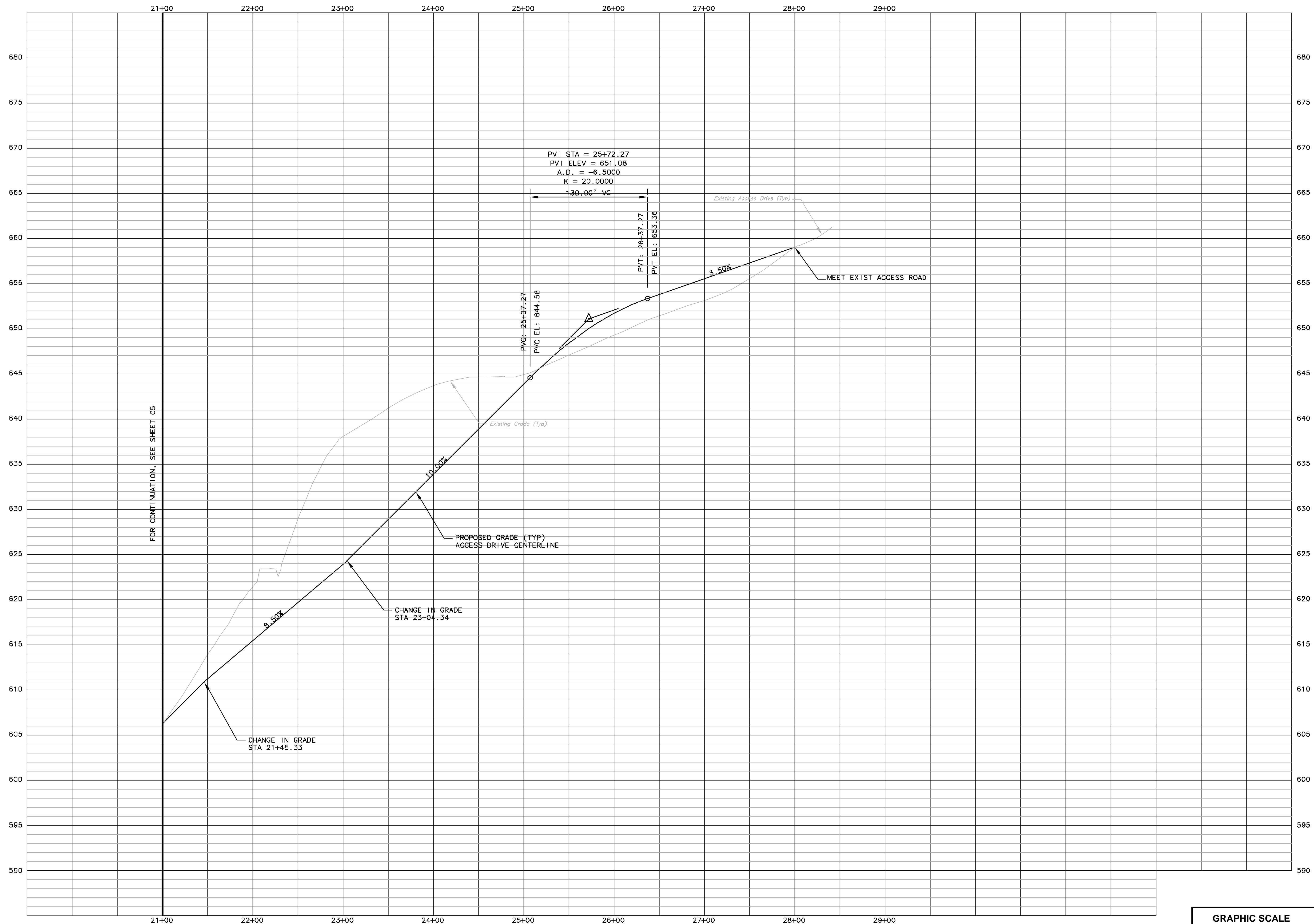
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 EARTH EXCAVATION PLANS
 TOWN OF BOLTON, CONNECTICUT

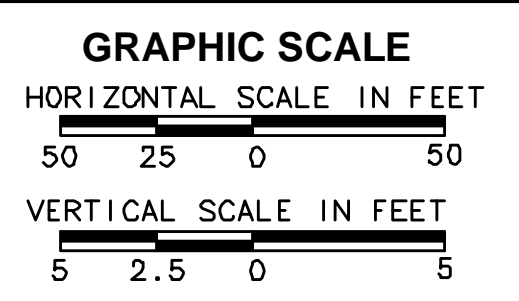
PROJECT NO: 36928477.00
 DRAWN BY: KMM
 CHECKED BY: RGT
 DATE: JANUARY 19, 2007
 CADD FILE: C5.DWG

ACCESS DRIVE CENTERLINE PROFILE

C5
 SHEET 11 OF 31



FOR CONTINUATION, SEE SHEET C5



URS
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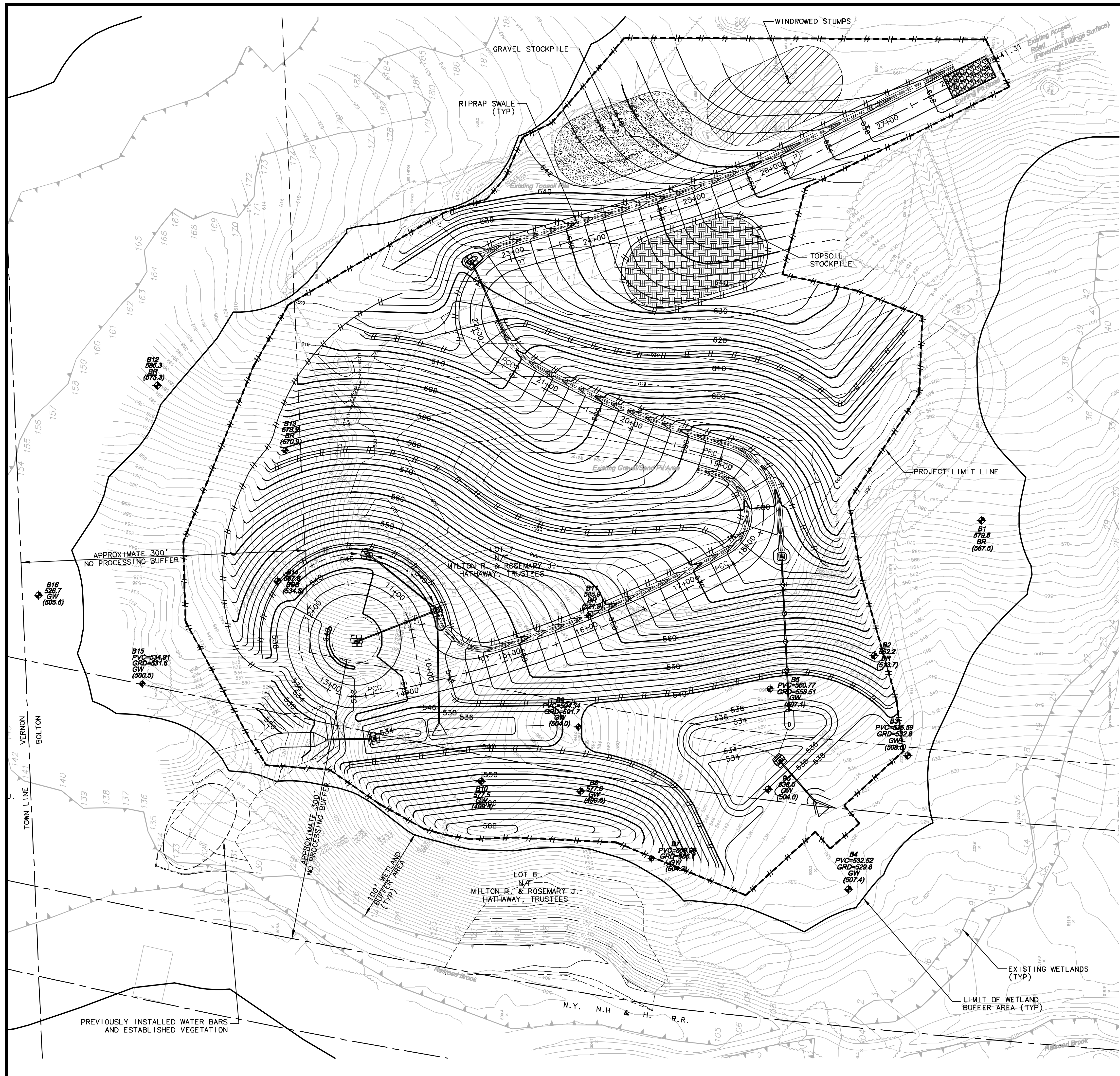
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DATE: JANUARY 19, 2007

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ACCESS DRIVE CENTERLINE PROFILE

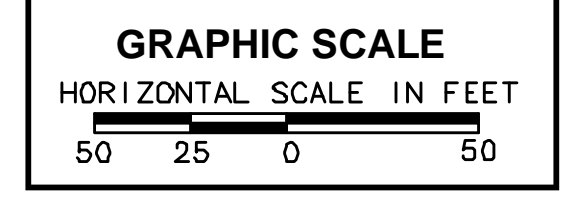
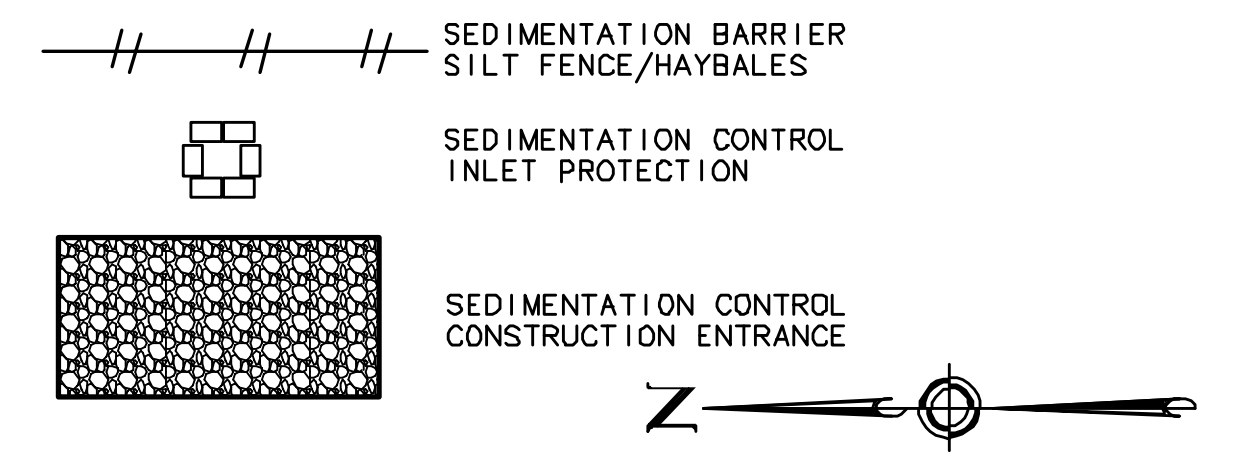
C5.1



SITE GRADING & SOIL EROSION & SEDIMENTATION CONTROL PLAN NOTES

- IMPLEMENTATION OF ALL SEDIMENTATION AND EROSION CONTROL MEASURES SHALL CONFORM TO THE CONTRACT DRAWINGS AND SPECIFICATIONS OR TO THE CTDEP "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL," REVISED 2002, WHICHEVER IS MORE STRINGENT.
- CONSTRUCTION ENTRANCES, PERIMETER SEDIMENTATION BARRIERS AND PROTECTION AT EXISTING INLETS SHALL BE INSTALLED PRIOR TO ANY EXCAVATION (INCLUDING THE REMOVAL OF STUMPS).
- IT IS THE INTENT OF THESE PLANS TO SHOW THE INITIAL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES REQUIRED. ACTUAL LOCATIONS OF CONTROLS MAY CHANGE AS CONSTRUCTION PROCEEDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADDITIONAL CONTROL MEASURES AS REQUIRED OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
- AREAS DISTURBED BY CONSTRUCTION WHICH WILL NOT BE COVERED BY PAVEMENT MILLINGS, RIP RAP, STORM STRUCTURES, ETC. SHALL BE PROVIDED WITH A PERMANENT OR TEMPORARY VEGETATIVE COVER OR MULCHED. THE COVER SHALL BE PROVIDED WITHIN A REASONABLE TIME PERIOD, AS DETERMINED BY THE OWNER'S REPRESENTATIVE.
- IF AREAS HAVE NOT RECEIVED A VEGETATIVE COVER WITHIN THE ALLOWABLE TIME, THEN THE AREAS SHALL BE PROTECTED WITH A MULCH OF HAY OR JUTE MESH. THESE MEASURES SHALL BE APPLIED IN CONFORMANCE WITH THE AFOREMENTIONED GUIDELINES.
- SEDIMENT AND DEBRIS TRAPPED BY SEDIMENT BARRIERS SHALL BE REMOVED AND DISPOSED OF AS DIRECTED BY THE OWNER'S REPRESENTATIVE WHEN IT REACHES ONE HALF THE HEIGHT OF THE BARRIER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION, INSPECTION, MAINTENANCE AND REMOVAL OF ALL SEDIMENTATION AND EROSION CONTROL MEASURES. ALL MEASURES SHALL BE INSPECTED BY THE CONTRACTOR WEEKLY DURING DRY WEATHER, AFTER EACH RUNOFF PRODUCING STORM, AND AT LEAST ONCE A DAY DURING PERIODS OF PROLONGED RAINFALL. REPAIR OR REPLACEMENT OF DAMAGED SEDIMENTATION OR EROSION CONTROL MEASURES SHALL BE DONE IMMEDIATELY. SEDIMENTATION AND EROSION CONTROL MEASURES SHALL BE REMOVED AFTER UPLAND AREAS BECOME STABLE.
- PROVISIONS SHALL BE MADE TO SAFELY CONDUCT SURFACE RUNOFF TO PROTECTED STORM DRAINS OR PROTECTED OUTLETS TO ENSURE THAT SURFACE RUNOFF WILL NOT DAMAGE SLOPES OR OTHER GRADED AREAS.
- SEDIMENTATION BARRIERS SHALL BE INSTALLED AS CONSTRUCTION PROCEEDS AT TOES OF SLOPES, ACROSS SWALES AND ACROSS OPEN GRADED SURFACES, ALL AS NECESSARY TO CONTAIN SEDIMENTATION TRANSPORT.
- SIDE SLOPES OF STOCKPILED MATERIALS SHALL NOT EXCEED TWO HORIZONTAL TO ONE VERTICAL.
- ALL EROSION CONTROLS MUST REMAIN IN PLACE UNTIL AUTHORIZED TO REMOVE BY THE OWNER'S REPRESENTATIVE.
- FOR ADDITIONAL SOIL EROSION & SEDIMENTATION CONTROL INFORMATION, NARRATIVE AND DETAILS, SEE SHEET C12.
- THE CONTRACTOR SHALL MAKE THE NECESSARY REPAIRS, INSTALL NEW MEASURES AND PROVIDE MAINTENANCE ON THE EXISTING SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AS INDICATED IN THE MONTHLY SOIL EROSION AND SEDIMENTATION CONTROL INSPECTIONS PERFORMED BY A PROFESSIONAL ENGINEER OR CERTIFIED SOIL EROSION AND SEDIMENTATION CONTROL SPECIALISTS. THE CONTRACTOR COMPLETE THE NECESSARY REPAIRS, INSTALL NEW MEASURES AND PERFORM MAINTENANCE ON THE EXISTING SOIL EROSION AND SEDIMENTATION CONTROL MEASURES PRIOR TO THE NEXT SCHEDULED MONTHLY INSPECTION.
- SEE ADDITIONAL CIVIL GENERAL NOTES AND EARTH EXCAVATION NOTES, SHEET C1.
- SEE SITE EXCAVATION & STAGING PLANS, SHEETS C8.1, C8.2 AND C8.3.
- ON-SITE REFUELING SHALL BE PERFORMED ON A SPILL CONTAINMENT PAD, SEE SHEET C2.4 FOR LOCATION. THE CONTRACTOR SHALL CONSTRUCT A 10'X10' CONCRETE PAD, FOR ON-SITE REFUELING, PITCHED (MINIMUM 2%) TOWARDS A 1' WIDE BY 6" DEEP INTEGRAL CONCRETE TRENCH LOCATED ON THREE SIDES OF THE CONCRETE PAD. INSTALL 6" DEEP OF 3/4" CRUSHED STONE, ON TOP OF A SUITABLE LINER, OVER THE CONCRETE PAD AND TRENCH. PITCH THE CONCRETE TRENCH TO A LOW SPOT AT ONE CORNER OF THE CONCRETE PAD AND INTO A 10 GALLON BUCKET. IF SPILL OCCURS, THE CONTRACTOR SHALL DISPOSE OF THE CONTAMINATED STONE AND MATERIAL IN ACCORDANCE WITH CTDEP STANDARDS.
- CONTRACTOR SHALL PROVIDE A SPILL KIT AND ABSORPTION BLANKETS READILY AVAILABLE FOR USE IF FUEL SPILL OCCURS.
- CONTRACTOR SHALL NOTIFY CTDEP OF ANY FUEL SPILL ON-SITE AND SHALL FOLLOW CTDEP PROCEDURES FOR CLEANING UP SPILLS.

SITE GRADING & SOIL EROSION & SEDIMENTATION CONTROL LEGEND



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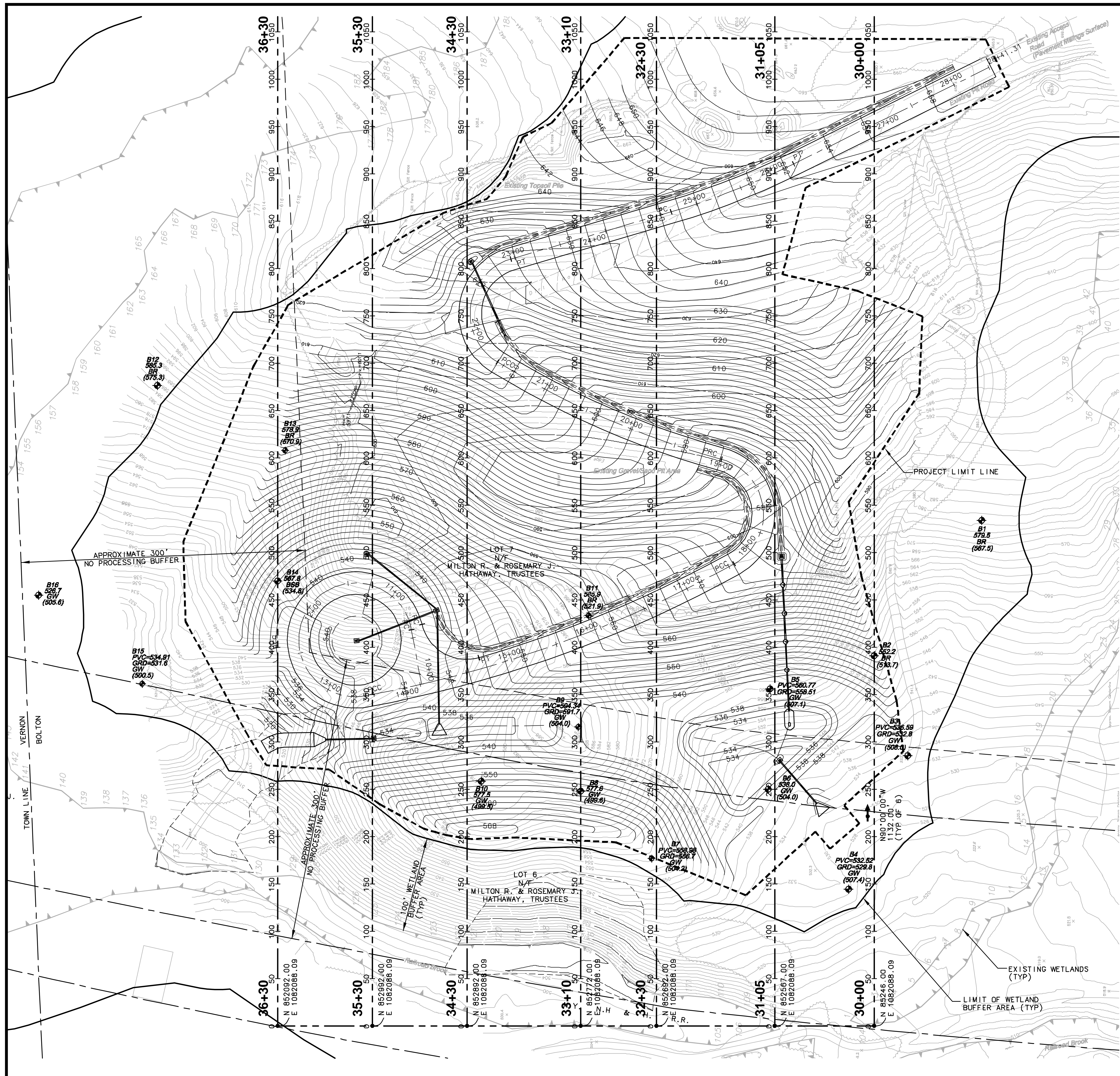
REVISIONS

NUMBER	DATE	REMARKS
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HATHAWAY SAND & GRAVEL, LLC
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 TOWN OF BOLTON, CONNECTICUT

PROJECT NO: 36928477.00
 DRAWN BY: KMM
 CHECKED BY: RGT
 DATE: JANUARY 19, 2007
 CADD FILE: C6.DWG

SITE GRADING & SOIL EROSION & SEDIMENTATION CONTROL PLAN



SITE CROSS SECTION LOCATION PLAN NOTES

1. SEE SHEET C7.1 AND C7.2 FOR SITE CROSS SECTIONS.

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PROJECT NO: 36928477.00

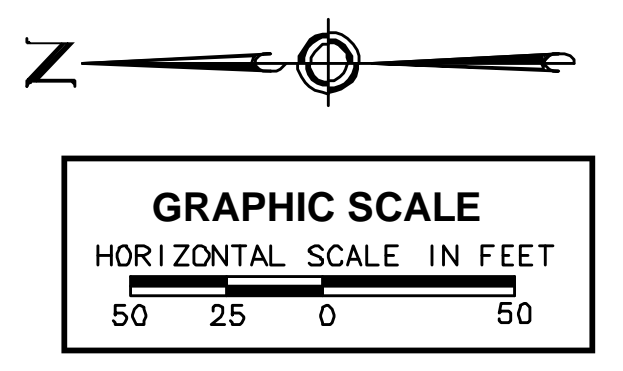
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DATE: JANUARY 19, 2007

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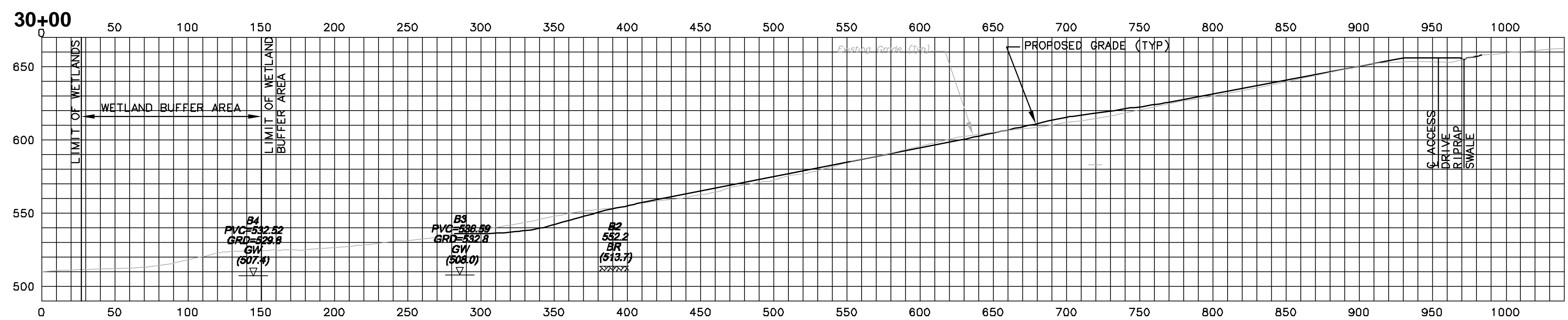
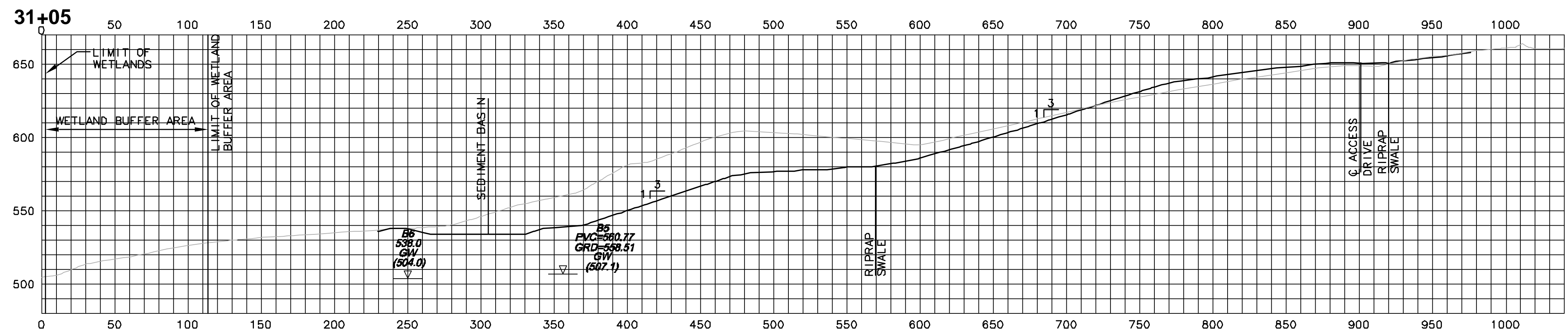
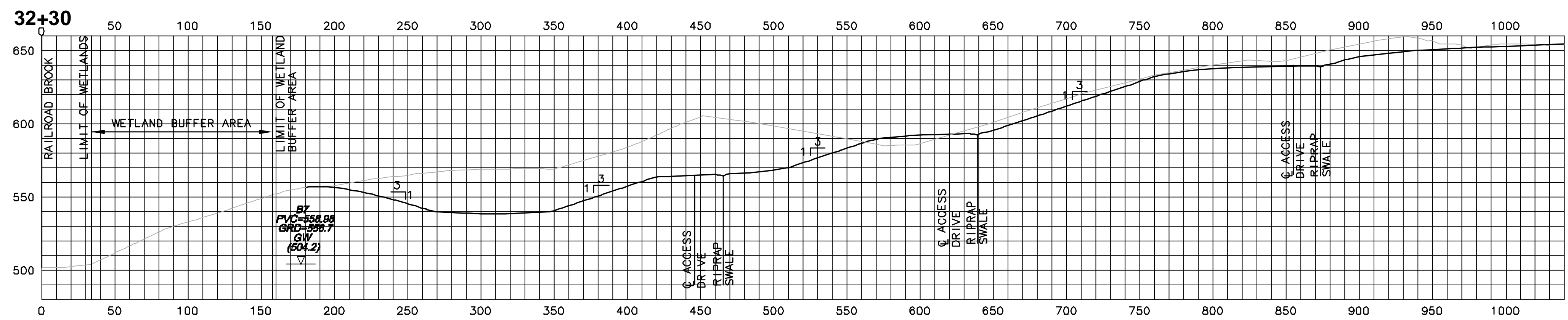
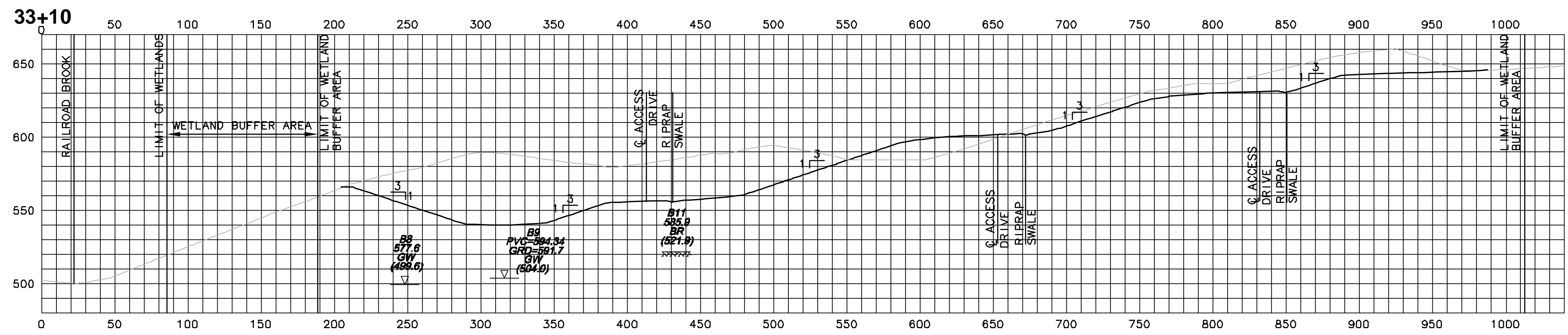
SITE CROSS SECTION LOCATION PLAN



C7

**SITE CROSS SECTION PLAN
NOTES**

1. SEE SHEET C7 SITE CROSS SECTIONS LOCATIONS.



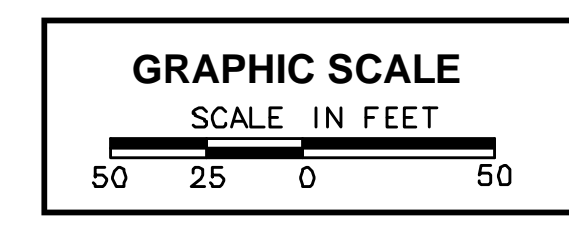
**SITE CROSS SECTIONS PLAN
LEGEND**

- B11 585.9 (521.9) BORING NUMBER
- EXISTING GRADE ELEVATION
- LIMITING FACTOR DESCRIPTION
- LIMITING FACTOR ELEVATION
- ◆ BORING LOCATION

- B4 PVC-532.52 GRD=529.8 GW (507.4) BORING NUMBER
- TOP OF PVC MONITORING WELL ELEVATION
- EXISTING GRADE ELEVATION
- LIMITING FACTOR DESCRIPTION
- LIMITING FACTOR ELEVATION
- ◆ BORING LOCATION

LIMITING FACTORS

- BR = BEDROCK ELEVATION + 4'
- GW = GROUNDWATER ELEVATION + 2'
- BSB = BOTTOM OF SOIL BORING



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EARTH EXCAVATION
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TOWN OF
BOLTON, CONNECTICUT

PROJECT NO: 36928477.00

DRAWN BY: KMM

CHECKED BY: RGT

DATE: JANUARY 19, 2007

CADD FILE: C7-1.DWG

**SITE
CROSS SECTION
PLAN**

**SITE CROSS SECTION PLAN
NOTES**

1. SEE SHEET C7 SITE CROSS SECTIONS LOCATIONS.

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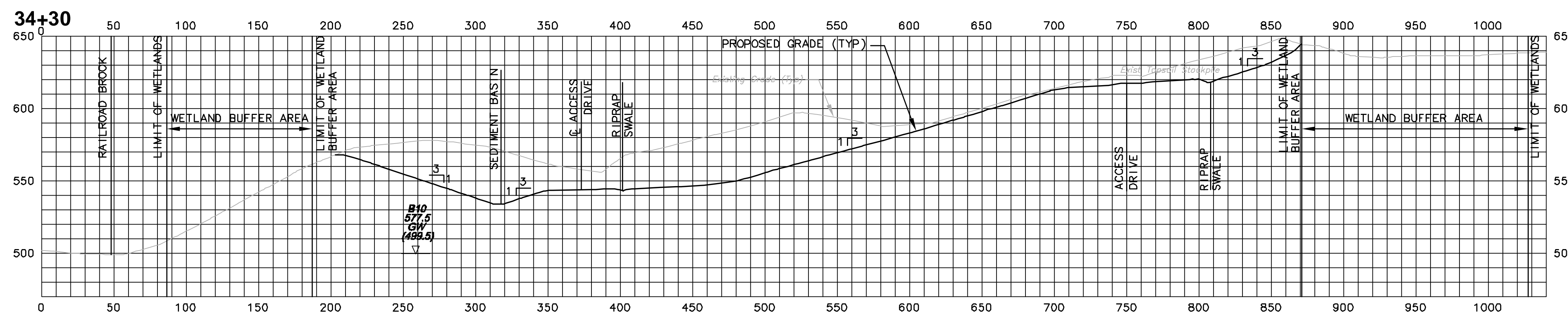
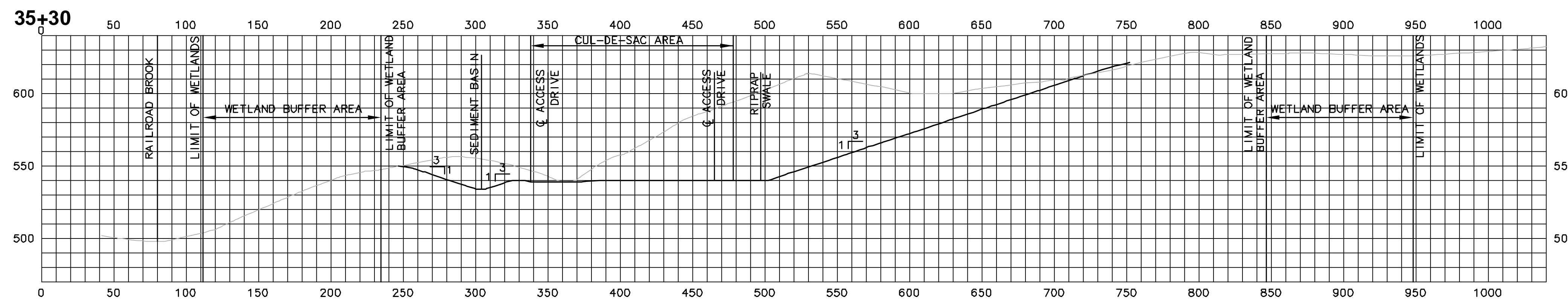
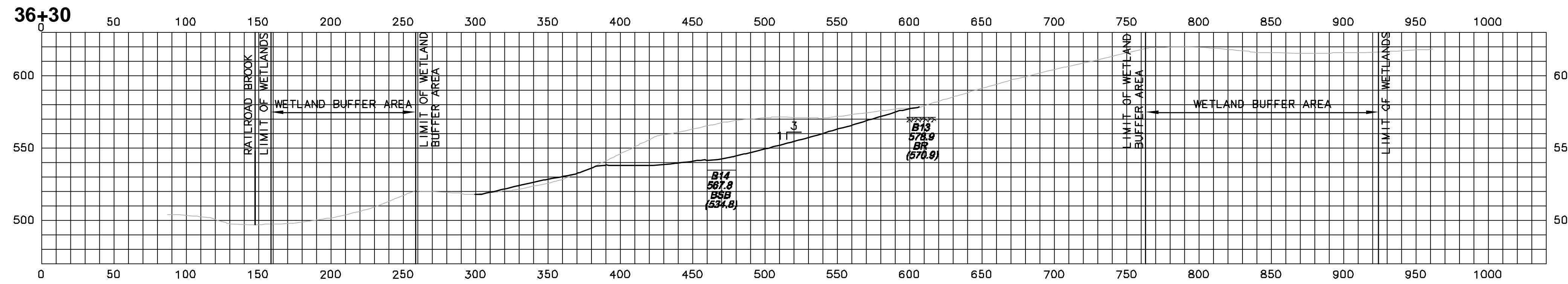
DATE: JANUARY 19, 2007

CADD FILE: C7-2.DWG

**SITE
CROSS SECTION
PLAN**

C7.2

SHEET 16 OF 31



**SITE CROSS SECTIONS PLAN
LEGEND**

B11
585.9
BR
(521.9)

— BORING NUMBER
— EXISTING GRADE ELEVATION
— LIMITING FACTOR DESCRIPTION
— LIMITING FACTOR ELEVATION
— BORING LOCATION

B4
PVC=532.52
GRD=529.8
GW
(507.4)

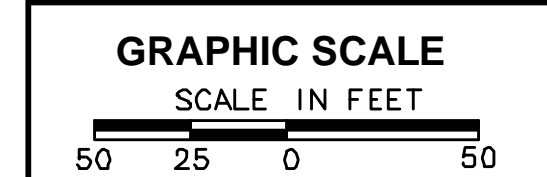
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— TOP OF PVC MONITORING WELL ELEVATION
— EXISTING GRADE ELEVATION
— LIMITING FACTOR DESCRIPTION
— LIMITING FACTOR ELEVATION
— BORING LOCATION

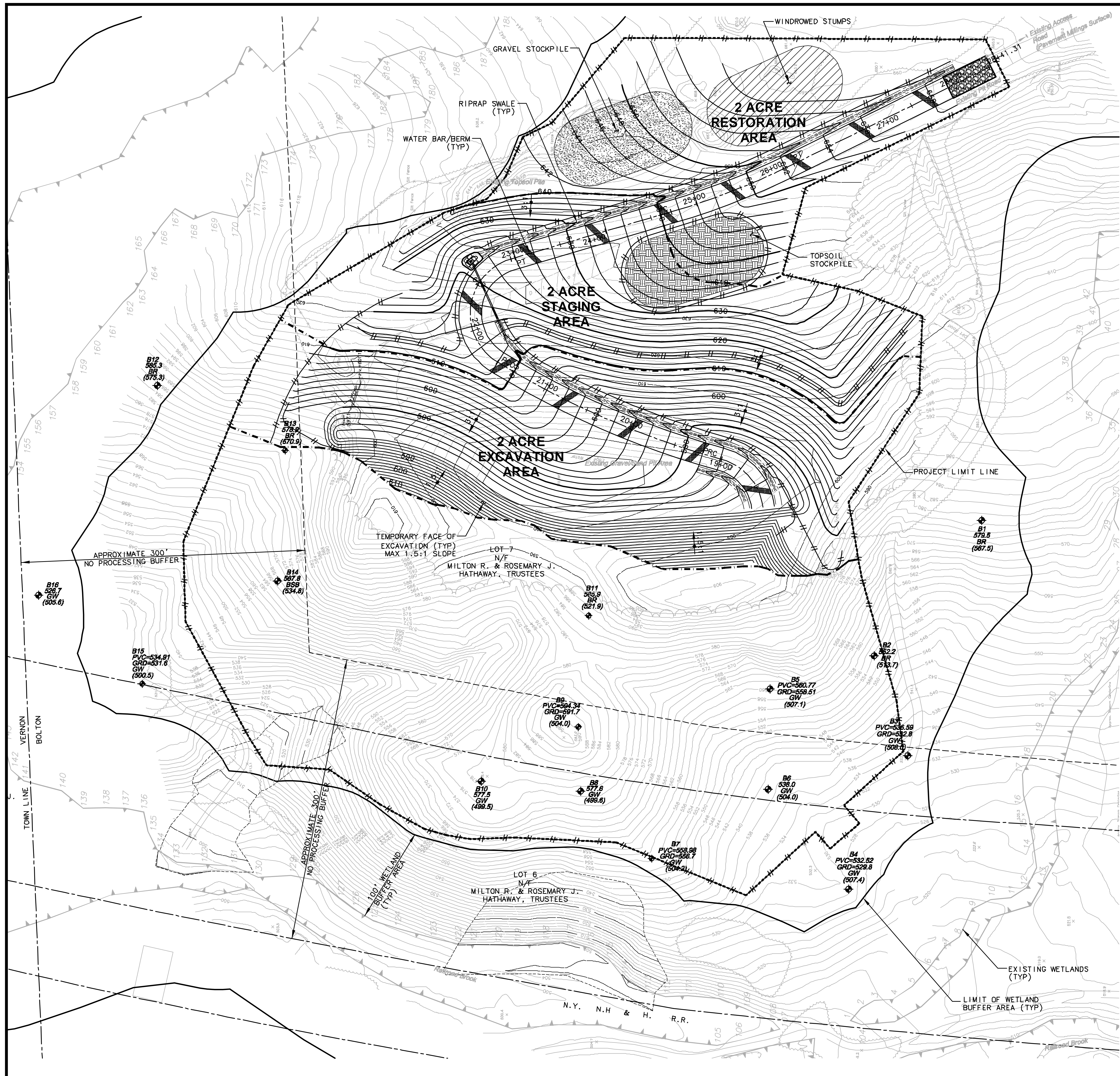
LIMITING FACTORS

BR = BEDROCK ELEVATION + 4'

GW = GROUNDWATER ELEVATION + 2'

BSB = BOTTOM OF SOIL BORING





SITE EXCAVATION AND STAGING PLAN NOTES

1. THE CONTRACTOR SHALL "CALL BEFORE YOU DIG" (1-800-922-4455) AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION OPERATION.
2. SEE ADDITIONAL CIVIL GENERAL NOTES AND EARTH EXCAVATION NOTES, SHEET C1.
3. FOR ADDITIONAL SITE GRADING & SOIL EROSION & SEDIMENTATION CONTROL MEASURES, SEE SHEET C6.
4. SEE SHEETS C8, C8.2 AND C8.3 FOR ADDITIONAL SITE EXCAVATION AND STAGING AREAS.
5. PROPOSED AREA OF EXCAVATION = 6 ACRES. NO MORE THAN 2 ACRES OF LAND, AS STAKED OUT BY A SURVEYOR, SHALL BE EXCAVATED INITIALLY AND NO MORE THAN 2 ACRES OF LAND AS STAKED OUT BY A SURVEYOR, SHALL HAVE EXPOSED OR UNSUITABLE SOIL CONDITIONS AT ANY TIME EXCEPT THAT AN ADJOINING TWO ACRES MAY BE USED AS A WORK AREA. ALL OTHER AREAS SHOULD HAVE NATURAL VEGETATION PRESERVED, HAVE A GOOD COVER OF TEMPORARY OR PERMANENT VEGETATION ESTABLISHED OR BE HEAVILY MULCHED. THE ENTIRE PROPOSED 6 ACRE SITE MAY BE LOGGED AT ONCE IF THE STUMPS REMAIN.
6. CONTRACTOR SHALL RESTORE ALL AREAS BEYOND 2 ACRES OF EXCAVATION AND 2 ACRES OF WORK AREA TO FINISHED GRADE (INCLUDING MULCH, PLANTINGS, ACCESS DRIVE, RIP RAP SWALE, DRAINAGE, ETC.) THE CONTRACTOR SHALL OBTAIN THE SERVICES OF A LICENSED SURVEYOR, AS SELECTED BY THE OWNER, FOR THE LAYOUT OF ALL PROPOSED WORK (INCLUDING ACCESS DRIVE, FINISHED GRADE, RIP RAP SWALES, DRAINAGE, PROJECT LIMITS, EXCAVATION LIMITS, ETC.)
7. EXISTING SEDIMENT TRAP LOCATED TO THE SOUTH AND WEST OF THE EXISTING ROADWAY TO REMAIN UNTIL EXCAVATION EXTENDS BELOW THE ELEVATION OF EXISTING SEDIMENT TRAP. AT ALL TIMES, CONTRACTOR SHALL MAINTAIN A LOW POINT, TEMPORARY SEDIMENT BASIN, IN THE CENTER OF THE EXCAVATION AREA AND BERMS ALONG THE EDGES TO PREVENT WASHOUTS FROM SURFACE RUNOFF COLLECTING AND DISCHARGING DOWNSTREAM. THE TEMPORARY SEDIMENT BASIN SHALL HAVE A MINIMUM VOLUME OF 50,000 CUBIC FEET PLUS MAINTAIN A MINIMUM FREEBOARD OF 2 FEET. FOR STAGE I MINIMUM DIMENSIONS OF THE TEMPORARY SEDIMENT BASIN ARE 500' LONG, AND 7' DEEP, 9' BOTTOM WIDTH. BOTTOM OF THE TEMPORARY SEDIMENT BASIN SHALL BE KEPT FREE OF SEDIMENT TO ALLOW FOR INFILTRATION.
8. CONTRACTOR SHALL INSTALL AND MAINTAIN WATER BARS/BERMS ALONG PORTIONS OF ACCESS DRIVE THAT ARE NOT STABILIZED WITH FINAL COURSE OF SURFACE MATERIAL. WATER BARS/BERMS SHALL BE SPACED A MAXIMUM OF 75' ALONG ACCESS DRIVE. SEE DETAIL, SHEET C12.1.

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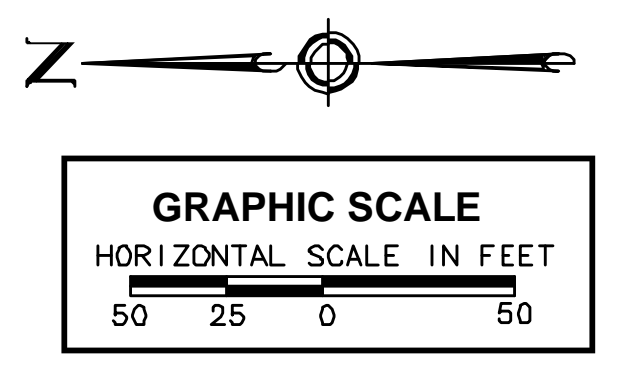
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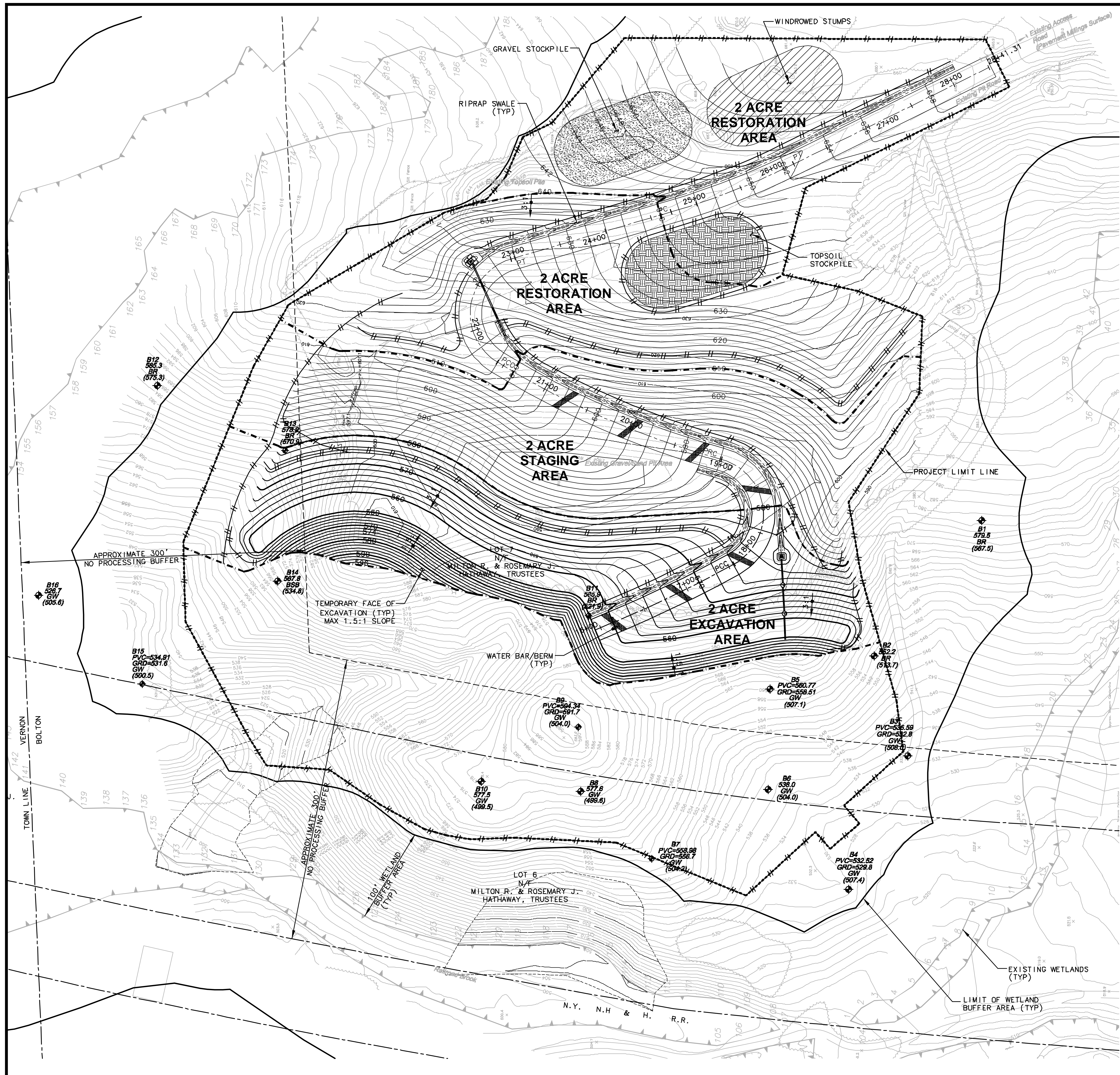
DATE: JANUARY 19, 2007

CADD FILE: C8.DWG

SITE EXCAVATION AND STAGING PLAN
 I



C8



SITE EXCAVATION AND STAGING PLAN NOTES

1. THE CONTRACTOR SHALL "CALL BEFORE YOU DIG" (1-800-922-4455) AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION OPERATION.
2. SEE ADDITIONAL CIVIL GENERAL NOTES AND EARTH EXCAVATION NOTES, SHEET C1.
3. FOR ADDITIONAL SITE GRADING & SOIL EROSION & SEDIMENTATION CONTROL MEASURES, SEE SHEET C6.
4. SEE SHEETS C8, C8.2 AND C8.3 FOR ADDITIONAL SITE EXCAVATION AND STAGING AREAS.
5. AT ALL TIMES, CONTRACTOR SHALL MAINTAIN A LOW POINT, TEMPORARY SEDIMENT BASIN, IN THE CENTER OF THE EXCAVATION AREA AND BERMS ALONG THE EDGES TO PREVENT WASHOUTS FROM SURFACE RUNOFF COLLECTING AND DISCHARGING DOWNSTREAM. THE TEMPORARY SEDIMENT BASIN SHALL HAVE A MINIMUM VOLUME OF 50,000 CUBIC FEET PLUS MAINTAIN A MINIMUM FREEBOARD OF 2 FEET. FOR STAGE II MINIMUM DIMENSIONS OF THE TEMPORARY SEDIMENT BASIN ARE 650' LONG, AND 5' DEEP, 20' BOTTOM WIDTH. BOTTOM OF THE TEMPORARY SEDIMENT BASIN SHALL BE KEPT FREE OF SEDIMENT TO ALLOW FOR INFILTRATION.

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 500 ENTERPRISE DRIVE
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Bolton PZC
 Special Permit / Site Plan
 Approved November 12, 2008
 5-Year Date for Completion
 of Improvements:
 September 16, 2015

Chairman/Secretary _____ Date Signed _____

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NUMBER	DATE	REMARKS
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2	7/9/08	PNZ COMMENTS
3	8/20/08	PNZ COMMENTS
4	11/18/10	PNZ CONDITIONS

HATHAWAY SAND & GRAVEL, LLC
EARTH EXCAVATION PLANS
 TOWN OF BOLTON, CONNECTICUT

PROJECT NO: 36928477.00

DRAWN BY: KMM

CHECKED BY: RGT

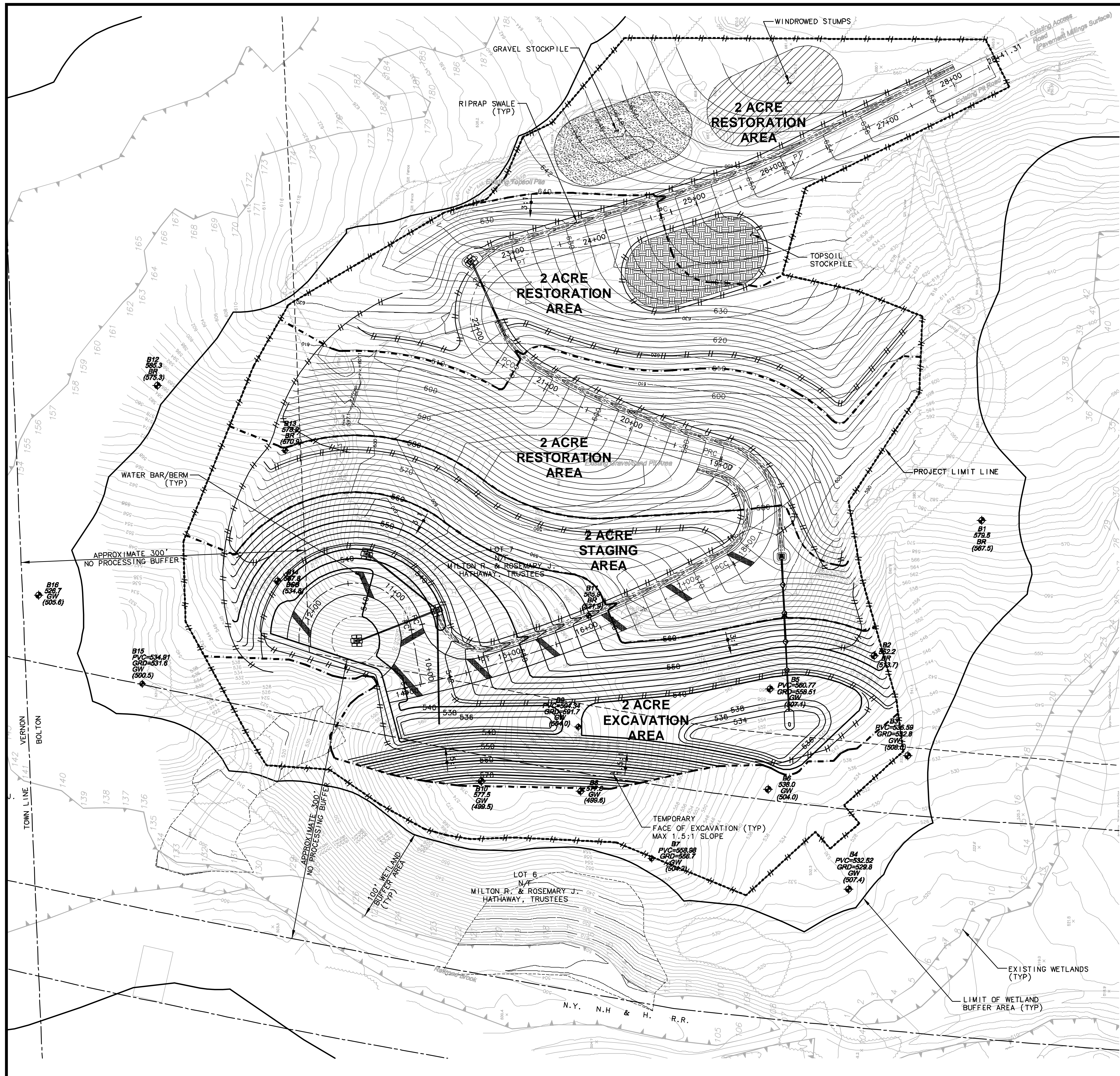
DATE: JANUARY 19, 2007

CADD FILE: C8-1.DWG

SITE EXCAVATION AND STAGING PLAN II

C8.1

SHEET 18 OF 31



SITE EXCAVATION AND STAGING PLAN NOTES

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2. SEE ADDITIONAL CIVIL GENERAL NOTES AND EARTH EXCAVATION NOTES, SHEET C1.
3. FOR ADDITIONAL SITE GRADING & SOIL EROSION & SEDIMENTATION CONTROL MEASURES, SEE SHEET C6.
4. SEE SHEETS C8, C8.2 AND C8.3 FOR ADDITIONAL SITE EXCAVATION AND STAGING AREAS.
5. AT ALL TIMES, CONTRACTOR SHALL MAINTAIN A LOW POINT, TEMPORARY SEDIMENT BASIN, IN THE CENTER OF THE EXCAVATION AREA AND BERMS ALONG THE EDGES TO PREVENT WASHOUTS FROM SURFACE RUNOFF COLLECTING AND DISCHARGING DOWNSTREAM. THE TEMPORARY SEDIMENT BASIN SHALL HAVE A MINIMUM VOLUME OF 50,000 CUBIC FEET PLUS MAINTAIN A MINIMUM FREEBOARD OF 2 FEET. FOR STAGE 111 MINIMUM DIMENSIONS OF THE TEMPORARY SEDIMENT BASIN ARE 650' LONG, AND 5' DEEP (AT DEEPEST POINT), 20' BOTTOM WIDTH. BOTTOM OF THE TEMPORARY SEDIMENT BASIN SHALL BE KEPT FREE OF SEDIMENT TO ALLOW FOR INFILTRATION.

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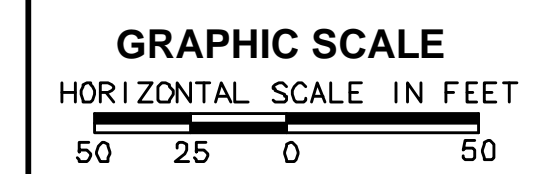
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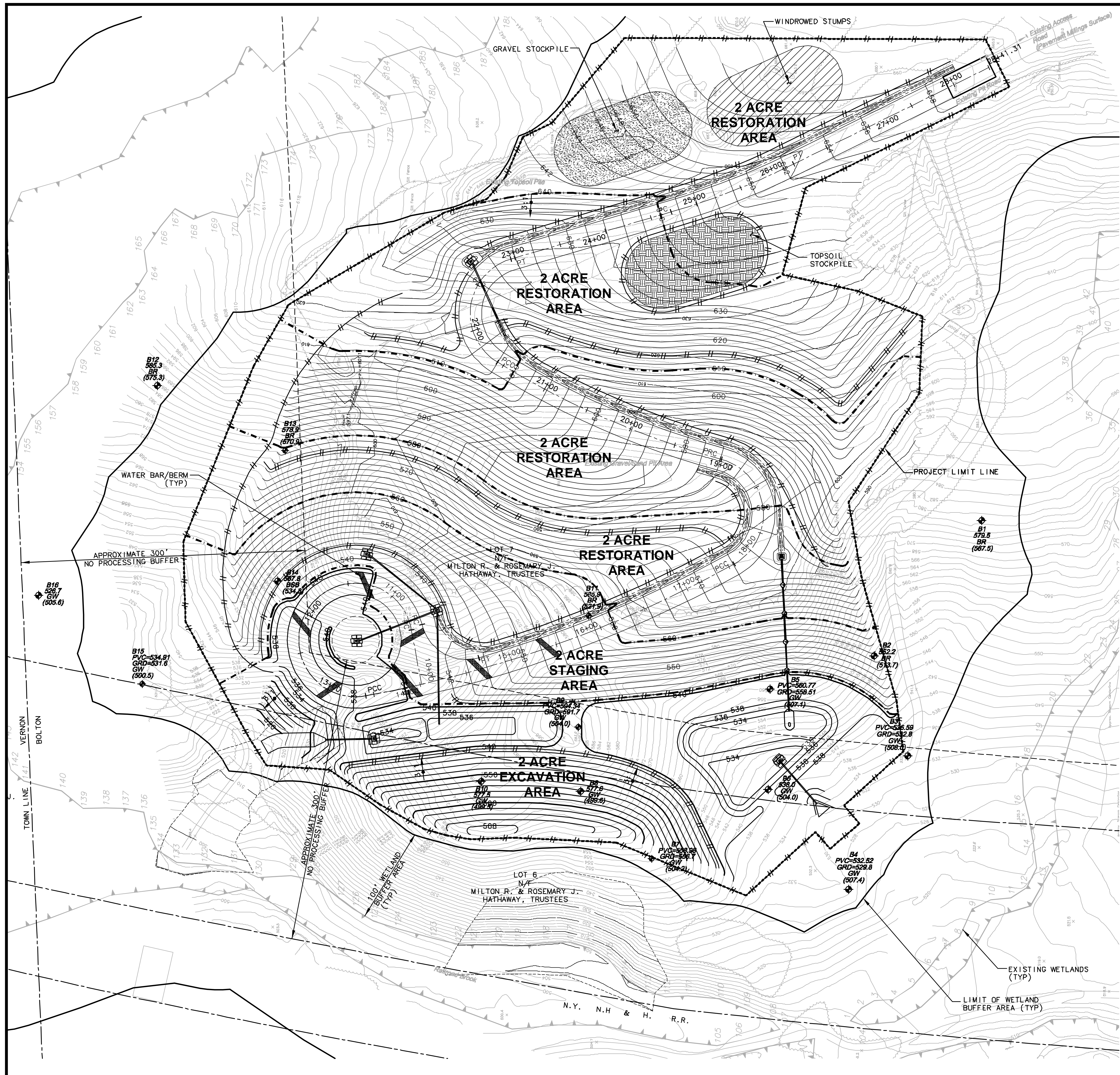
DATE: JANUARY 19, 2007

CADD FILE: C8-2.DWG

SITE EXCAVATION AND STAGING PLAN III



C8.2



SITE EXCAVATION AND STAGING PLAN NOTES

1. THE CONTRACTOR SHALL "CALL BEFORE YOU DIG" (1-800-922-4455) AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION OPERATION.
2. SEE ADDITIONAL CIVIL GENERAL NOTES AND EARTH EXCAVATION NOTES, SHEET C1.
3. FOR ADDITIONAL SITE GRADING & SOIL EROSION & SEDIMENTATION CONTROL MEASURES, SEE SHEET C6.
4. SEE SHEETS C8, C8.2 AND C8.3 FOR ADDITIONAL SITE EXCAVATION AND STAGING AREAS.
5. UNTIL THE TWO DETENTION BASINS, OUTLETS STRUCTURES AND PIPING, EMERGENCY SPILLWAYS, ETC ARE CONSTRUCTED: AT ALL TIMES, CONTRACTOR SHALL MAINTAIN A LOW POINT, TEMPORARY SEDIMENT BASIN, IN THE CENTER OF THE EXCAVATION AREA AND BERMS ALONG THE EDGES TO PREVENT WASHOUTS FROM SURFACE RUNOFF COLLECTING AND DISCHARGING DOWNSTREAM. THE TEMPORARY SEDIMENT BASIN SHALL HAVE A MINIMUM VOLUME OF 50,000 CUBIC FEET PLUS MAINTAIN A MINIMUM FREEBOARD OF 2 FEET; FOR STAGE IV MINIMUM DIMENSIONS OF THE TEMPORARY SEDIMENT BASIN ARE 650' LONG, AND 5' DEEP (AT DEEPEST POINT); 20' BOTTOM WIDTH. BOTTOM OF THE TEMPORARY SEDIMENT BASIN SHALL BE KEPT FREE OF SEDIMENT TO ALLOW FOR INFILTRATION.

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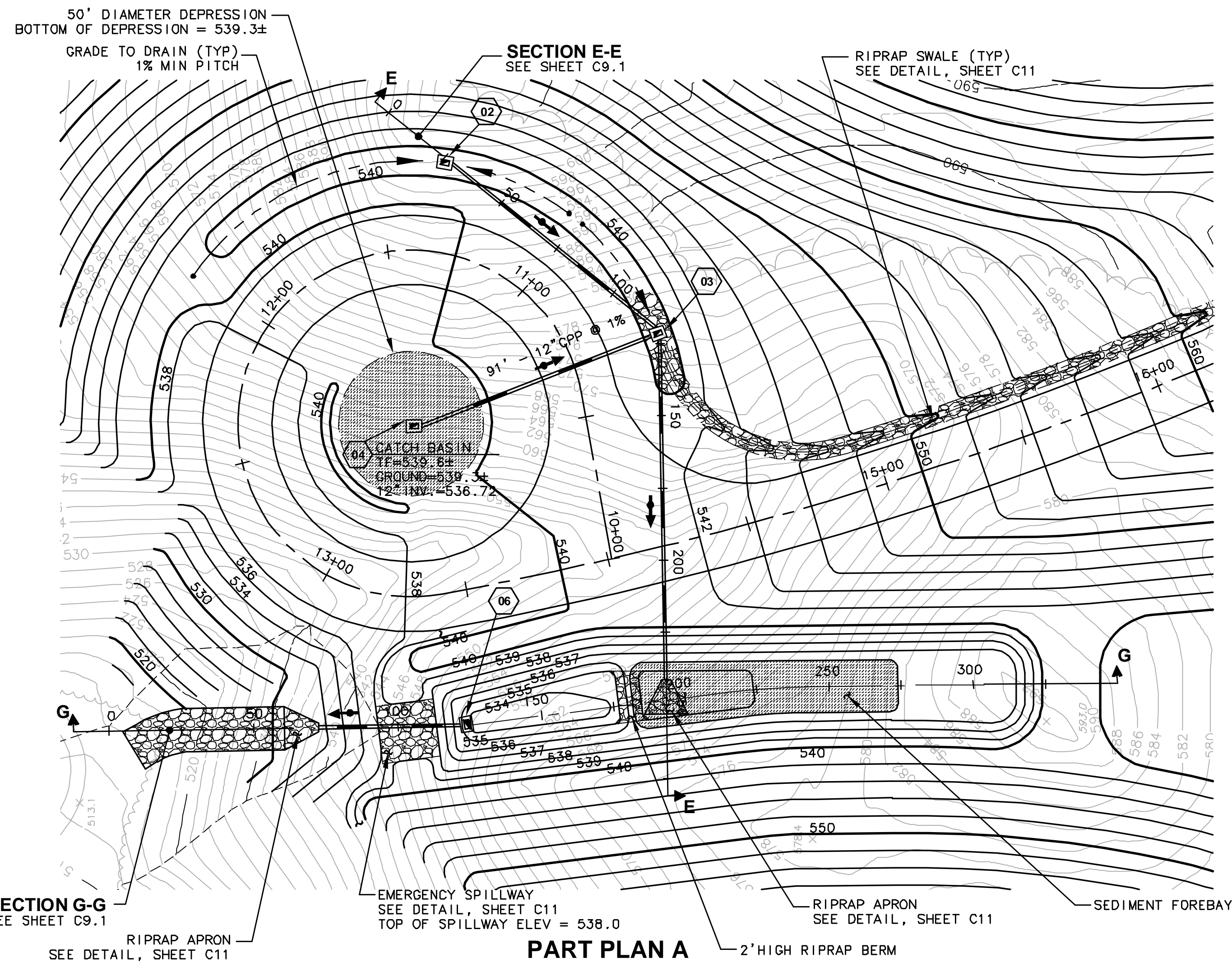
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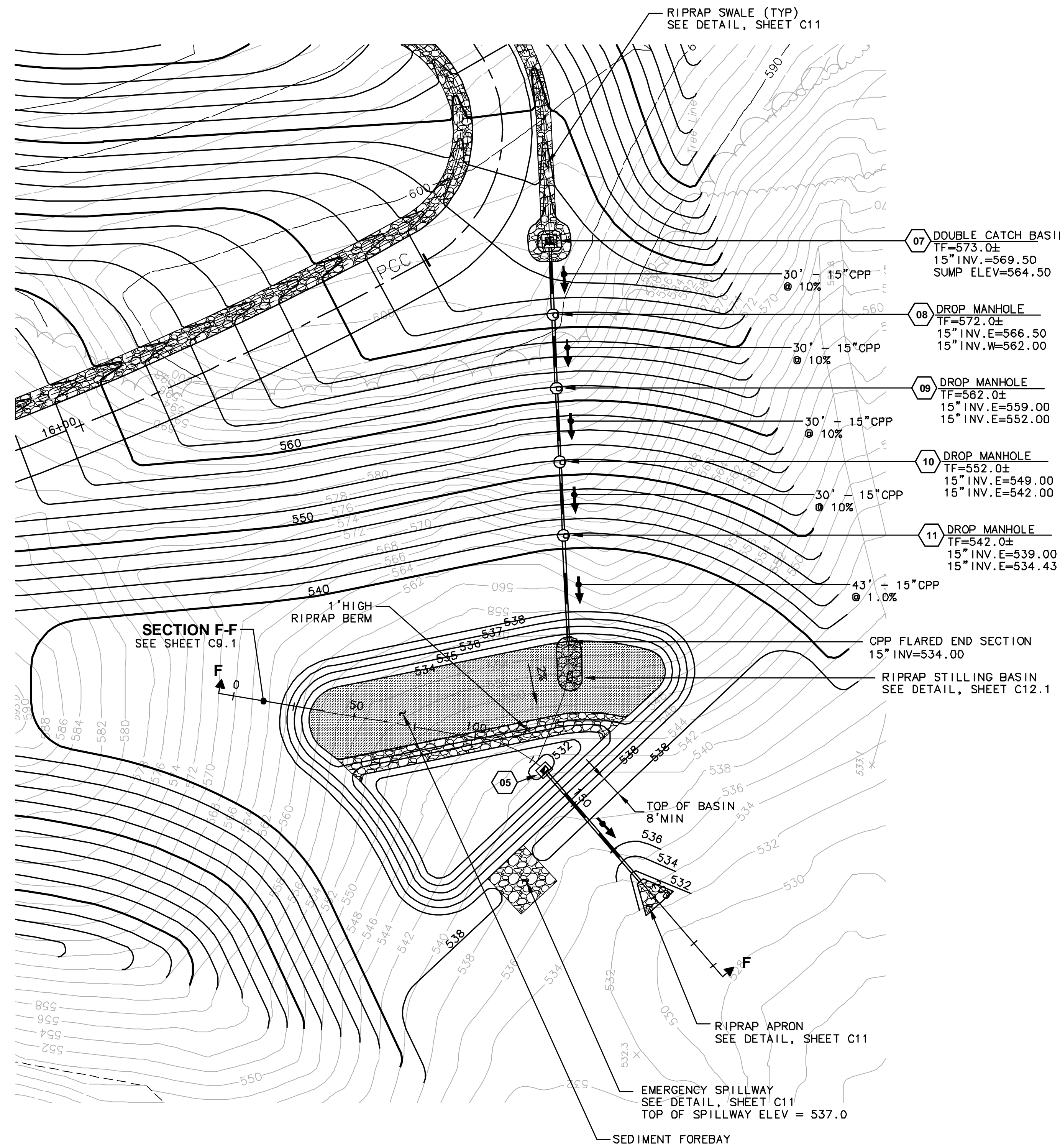
SITE EXCAVATION AND STAGING PLAN IV

C8.3

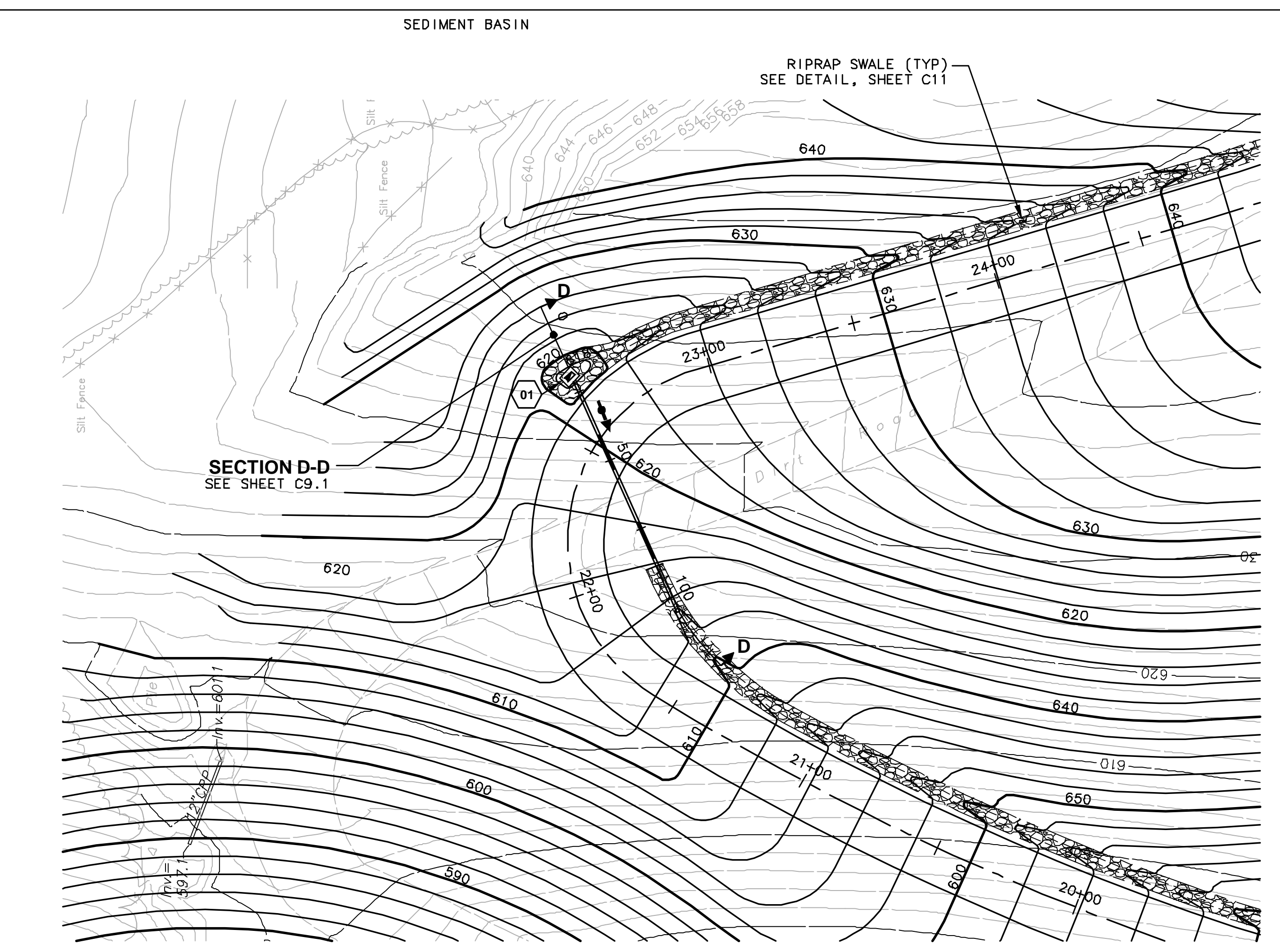
SHEET 20 OF 31



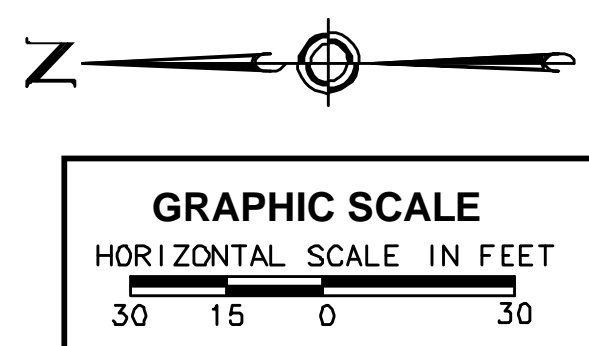
PART PLAN A



PART PLAN B



PART PLAN C



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DATE: JANUARY 19, 2007

CADD FILE: C9.DWG

DETAILED PART PLANS

C9

SHEET 21 OF 31

**DETAILED PART PLANS
CROSS SECTION NOTES**

1. SEE SHEET C9 DETAILED PART PLANS.

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SAND & GRAVEL, LLC
EARTH EXCAVATION
PLANS**
TOWN OF
BOLTON, CONNECTICUT

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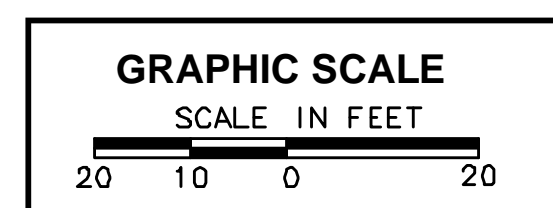
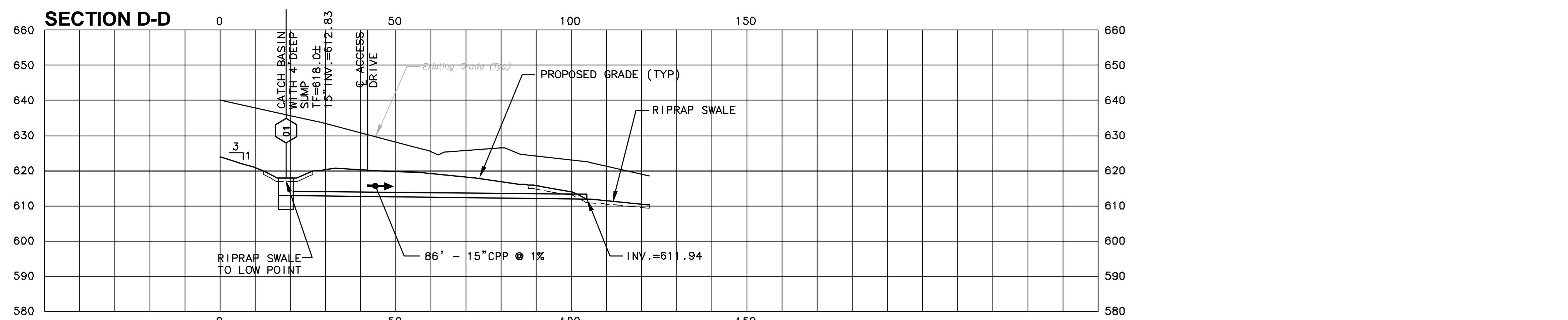
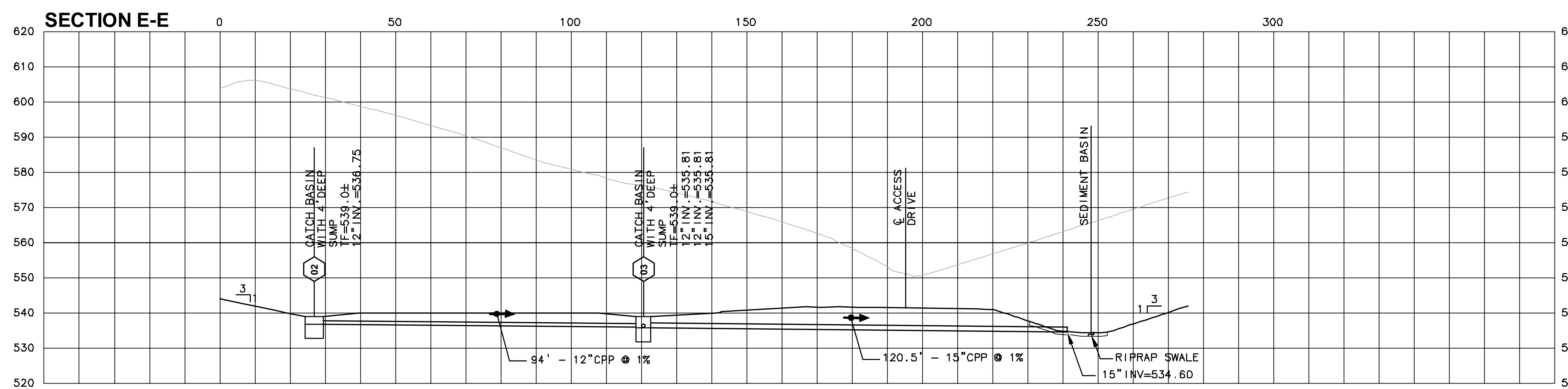
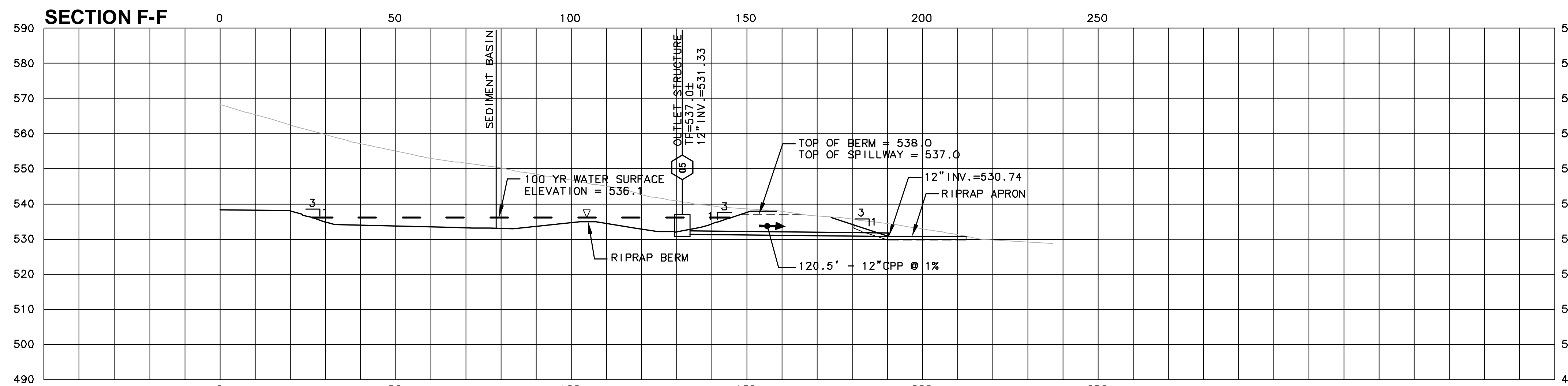
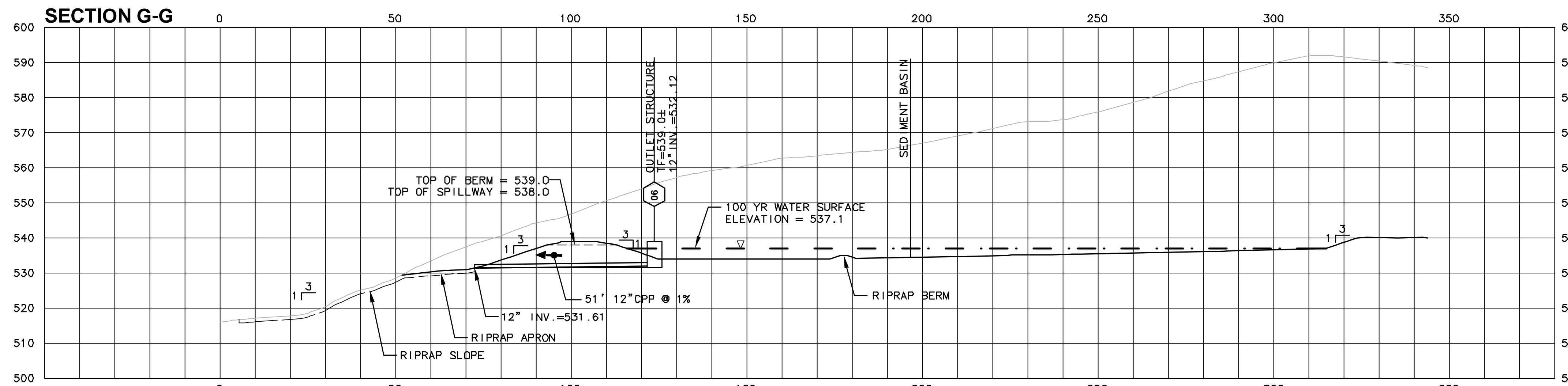
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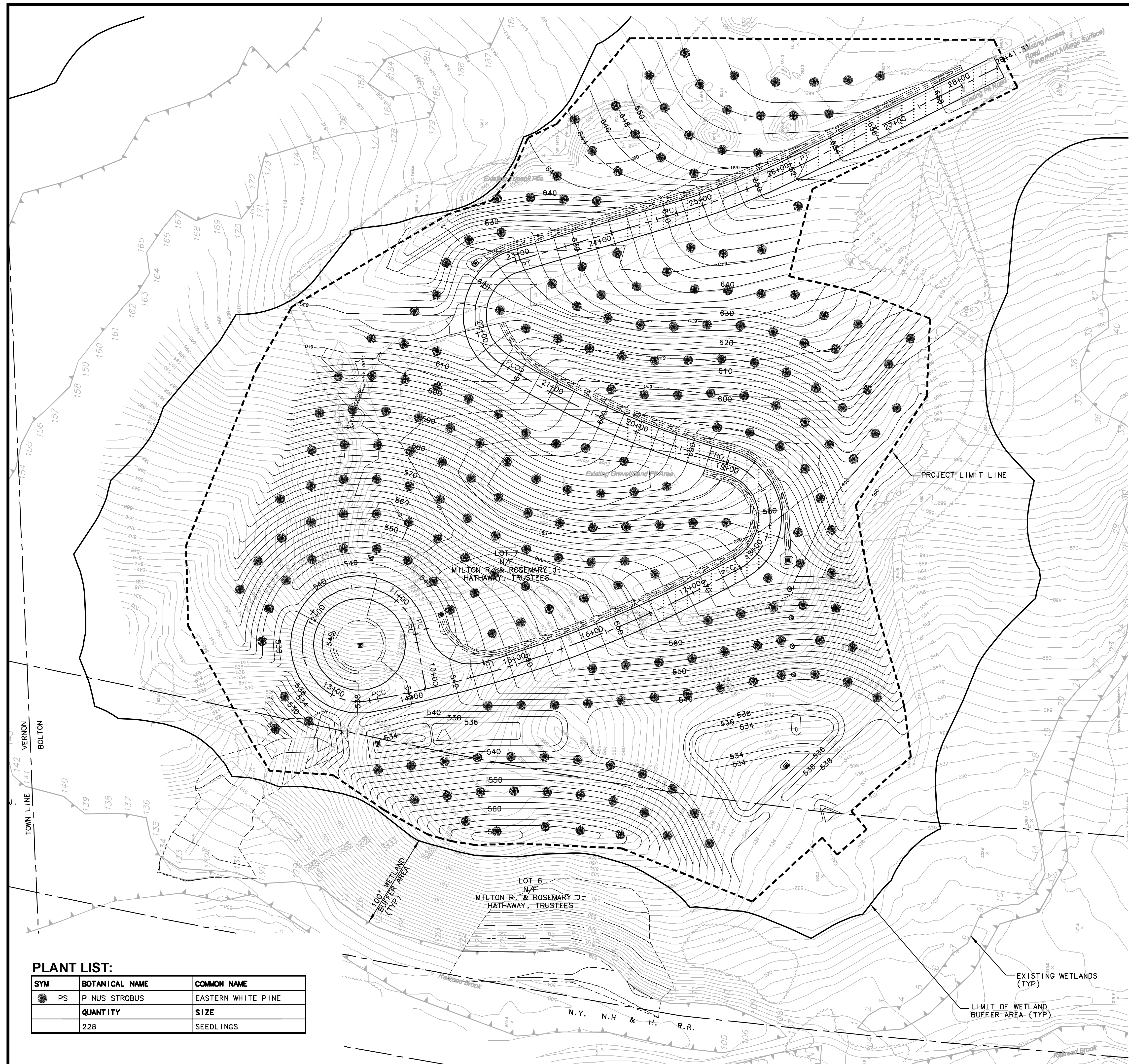
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**DETAILED
PART PLANS
CROSS SECTIONS**

C9.1

SHEET 22 OF 31





PLANT LIST:

SYM	BOTANICAL NAME	COMMON NAME
PS	PINUS STROBUS	EASTERN WHITE PINE
	QUANTITY	SIZE
	228	SEEDLINGS

SITE RESTORATION PLAN NOTES

1. ANY AREAS DISTURBED BY CONSTRUCTION ACTIVITIES AND NOT PROVIDED WITH A SPECIFIC SITE IMPROVEMENT (PAVING MILLINGS, RIP RAP, PLANTINGS, ETC.) SHALL HAVE MULCH. FOR ADDITIONAL INFORMATION SEE SHEET C12.
2. ALL PLANTING MATERIAL TO BE NURSERY GROWN STOCK SUBJECT TO APPLICABLE A.A.N. STANDARDS.
3. THE CONTRACTOR SHALL SUPPLY ALL PLANTS IN QUANTITIES SUFFICIENT TO COMPLETE THE WORK SHOWN ON THE DRAWINGS AND LISTED IN THE PLANT LIST. IN THE EVENT OF A DISCREPANCY BETWEEN THE QUANTITIES SHOWN IN THE PLANT LIST AND THOSE REQUIRED BY THE DRAWINGS, THE LARGER NUMBER SHALL APPLY.
4. ALL PLANTS SHALL BE APPROVED PRIOR TO THE INSTALLATION AND SHALL BE LOCATED ON SITE BY THE CONTRACTOR, FOR APPROVAL OF THE OWNER.
5. PRECISE LOCATION OF ITEMS NOT DIMENSIONED ON THE PLAN ARE TO BE FIELD STAKED BY THE CONTRACTOR AND SHALL BE SUBJECT TO THE REQUIREMENTS SPECIFIED IN THE PREVIOUS NOTE.
6. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGED VEGETATION AND SHALL REPLACE OR REPAIR ANY DAMAGED VEGETATION AT HIS OWN EXPENSE.
7. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES IN THE FIELD. WHERE PLANT MATERIAL MAY INTERFERE WITH UTILITIES, THE CONTRACTOR SHALL NOTIFY THE OWNER TO COORDINATE THEIR INSTALLATION.
8. PLANTINGS INSTALLED IN THE DRY SUMMER MONTHS AND/OR LAWN SEEDED OUT OF SPRING OR FALL PERIODS, IF ALLOWED BY THE OWNER, WILL REQUIRE AGGRESSIVE IRRIGATION PROGRAMS AT THE CONTRACTOR'S EXPENSE, UNLESS OTHERWISE DIRECTED BY THE OWNER.
9. SUBSTITUTIONS PERMITTED ONLY UPON WRITTEN APPROVAL BY THE OWNER'S REPRESENTATIVE.
10. PLANT TAGS TO REMAIN ON ALL PLANT MATERIAL UNTIL 60 DAYS AFTER FINAL ACCEPTANCE.
11. CONTRACTOR TO GUARANTEE ALL PLANT MATERIAL UNTIL 60 DAYS AFTER FINAL ACCEPTANCE.
12. TREE PLANTING SHALL CONFORM TO THE REQUIREMENTS OUTLINED IN THE CTDEP "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL", REVISED 2002.
13. SOIL EROSION AND SEDIMENTATION MEASURES SHALL REMAIN IN PLACE UNTIL ALL DISTURBED AREAS HAVE BEEN STABILIZED. ONCE THE DISTURBED AREAS HAVE BEEN STABILIZED, THE CONTRACTOR SHALL REMOVE THE EROSION CONTROL MEASURES AND DISPOSE OF LEGALLY OFFSITE.
14. THE CONTRACTOR SHALL REMOVE ACCUMULATED SEDIMENT FROM THE RIPRAP SWALES, ACCESS DRIVE, DRAINAGE STRUCTURES AND PIPING AND SEDIMENT BASINS AND RESTORE AREAS WITH THE APPROPRIATE RIPRAP, PAVEMENT MILLINGS, TURF ESTABLISHMENT, ETC. PRIOR TO DEMOBILIZING FROM THE SITE.
15. INSTALL SEEDLINGS IN ACCORDANCE WITH THE "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL", DATED 2002 BY THE CTDEP, FIG.LP.7.

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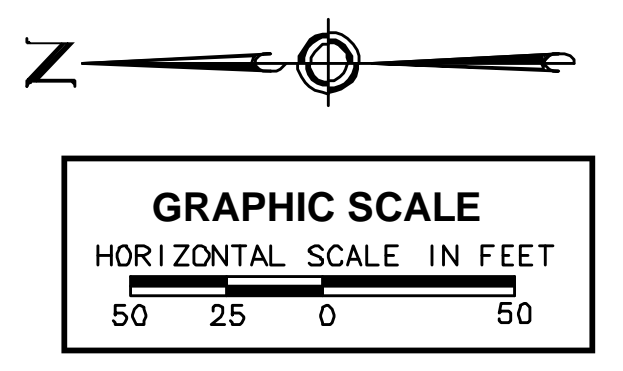
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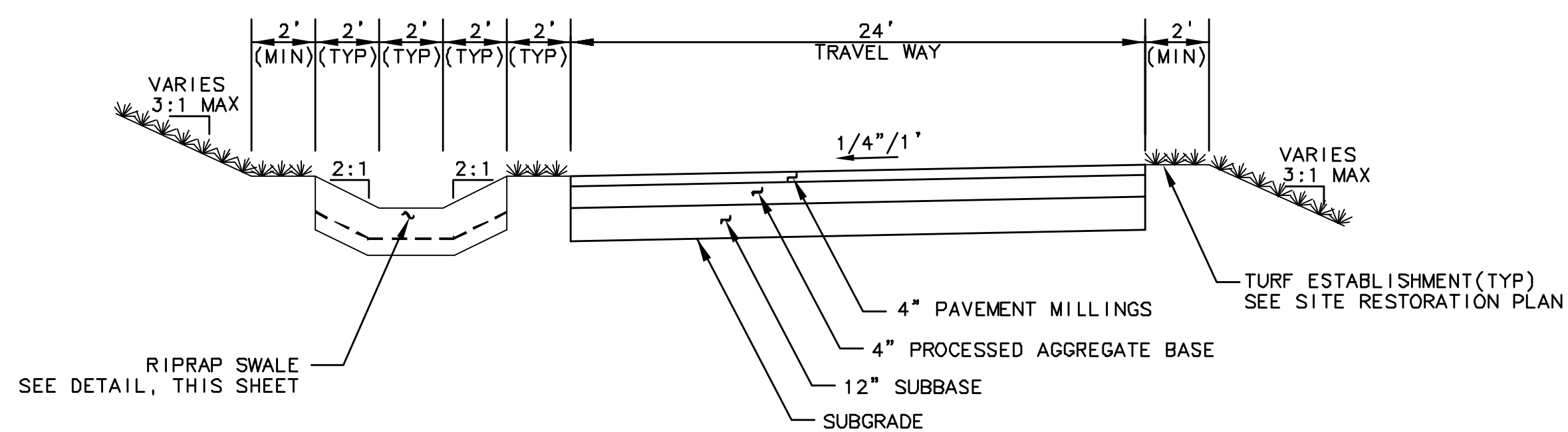
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SITE RESTORATION PLAN & DETAILS

C10

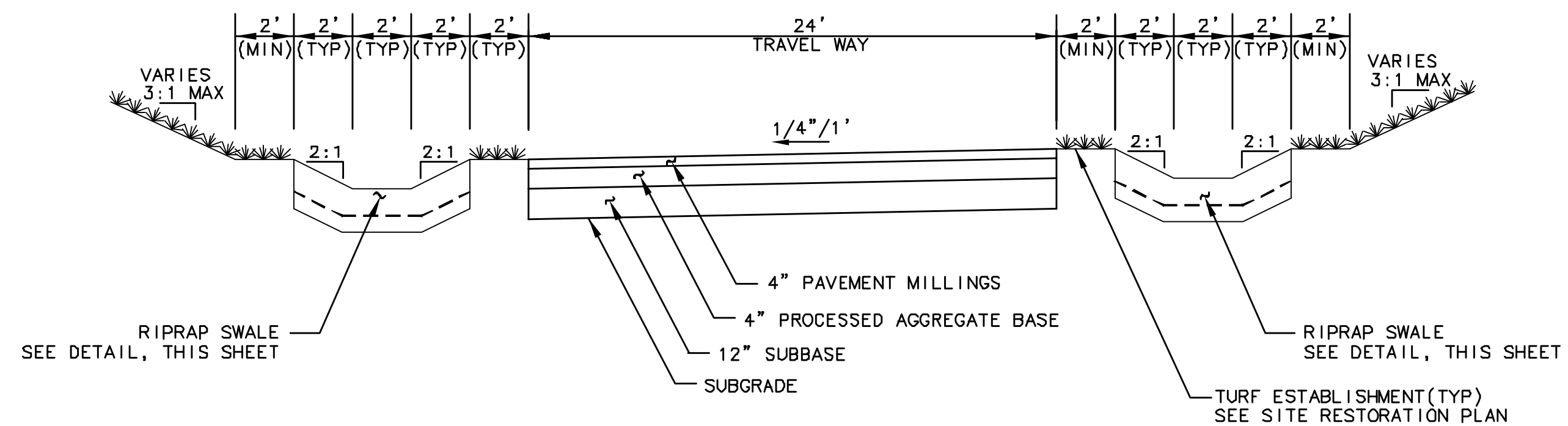
SHEET 23 OF 31





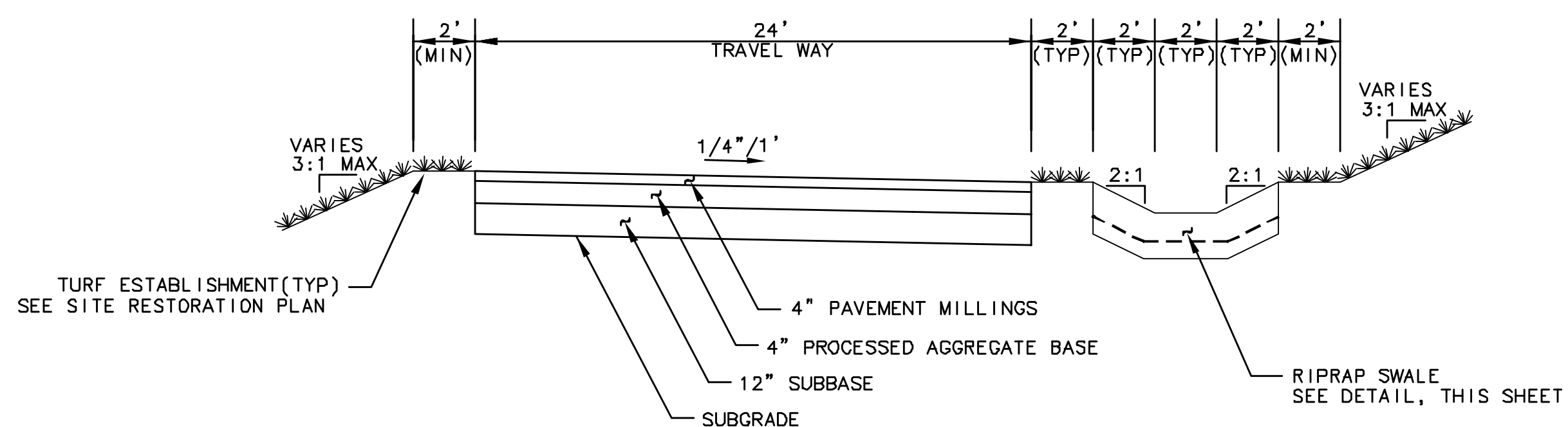
TYPICAL SECTION A-A

STATION 14+30 TO 17+80
STATION 22+00 TO 28+08
(NTS)



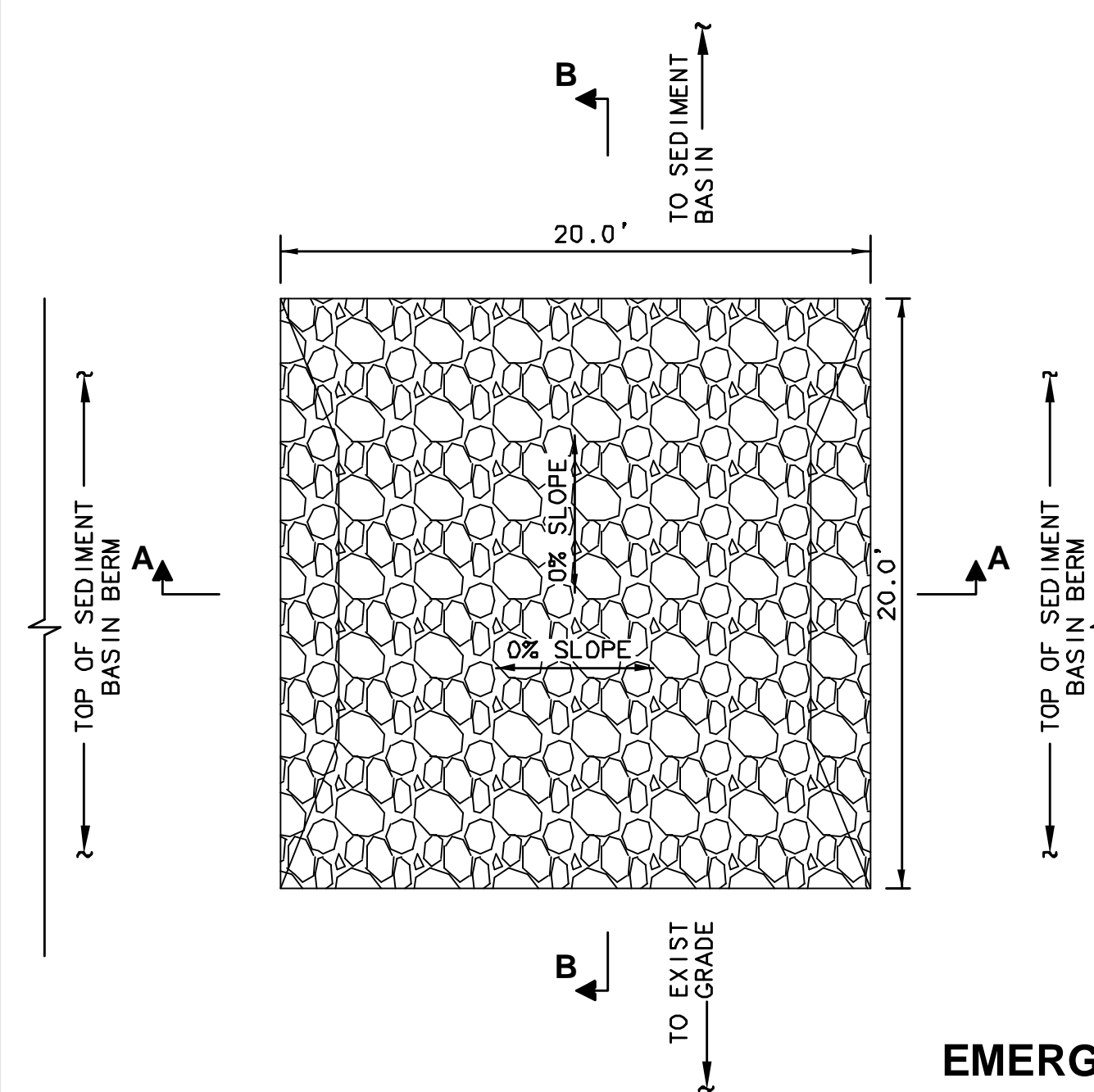
TYPICAL SECTION B-B

STATION 17+80 TO 19+35
(NTS)

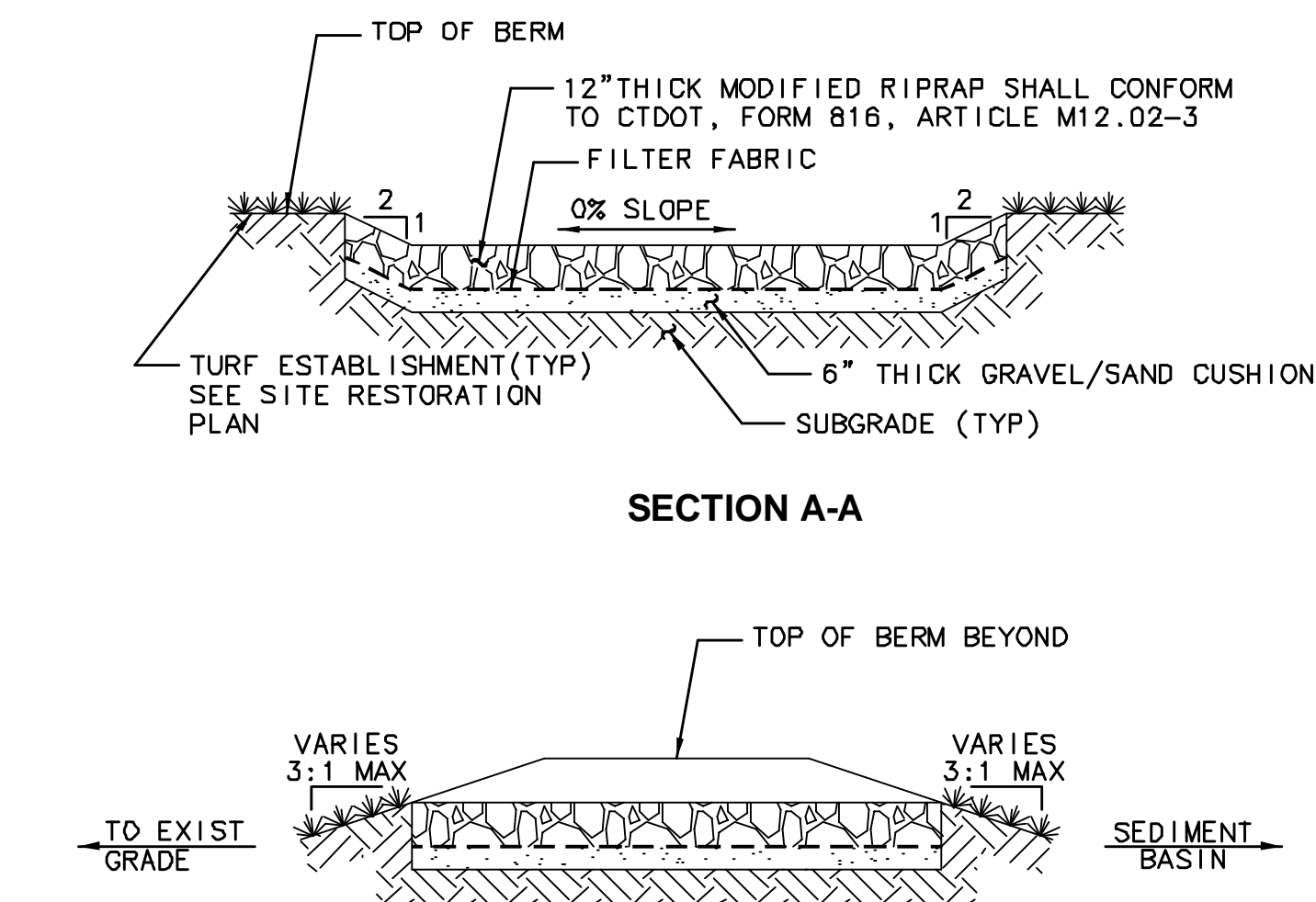


TYPICAL SECTION C-C

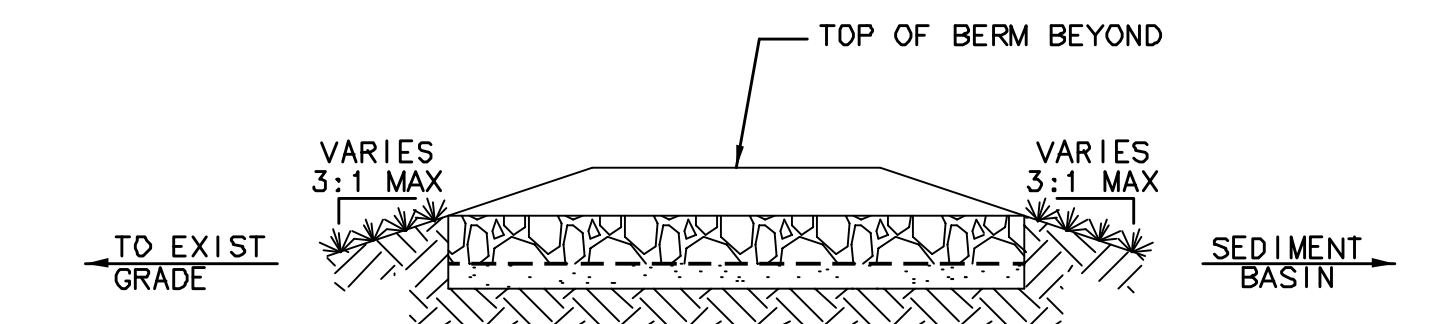
STATION 19+35 TO 22+00
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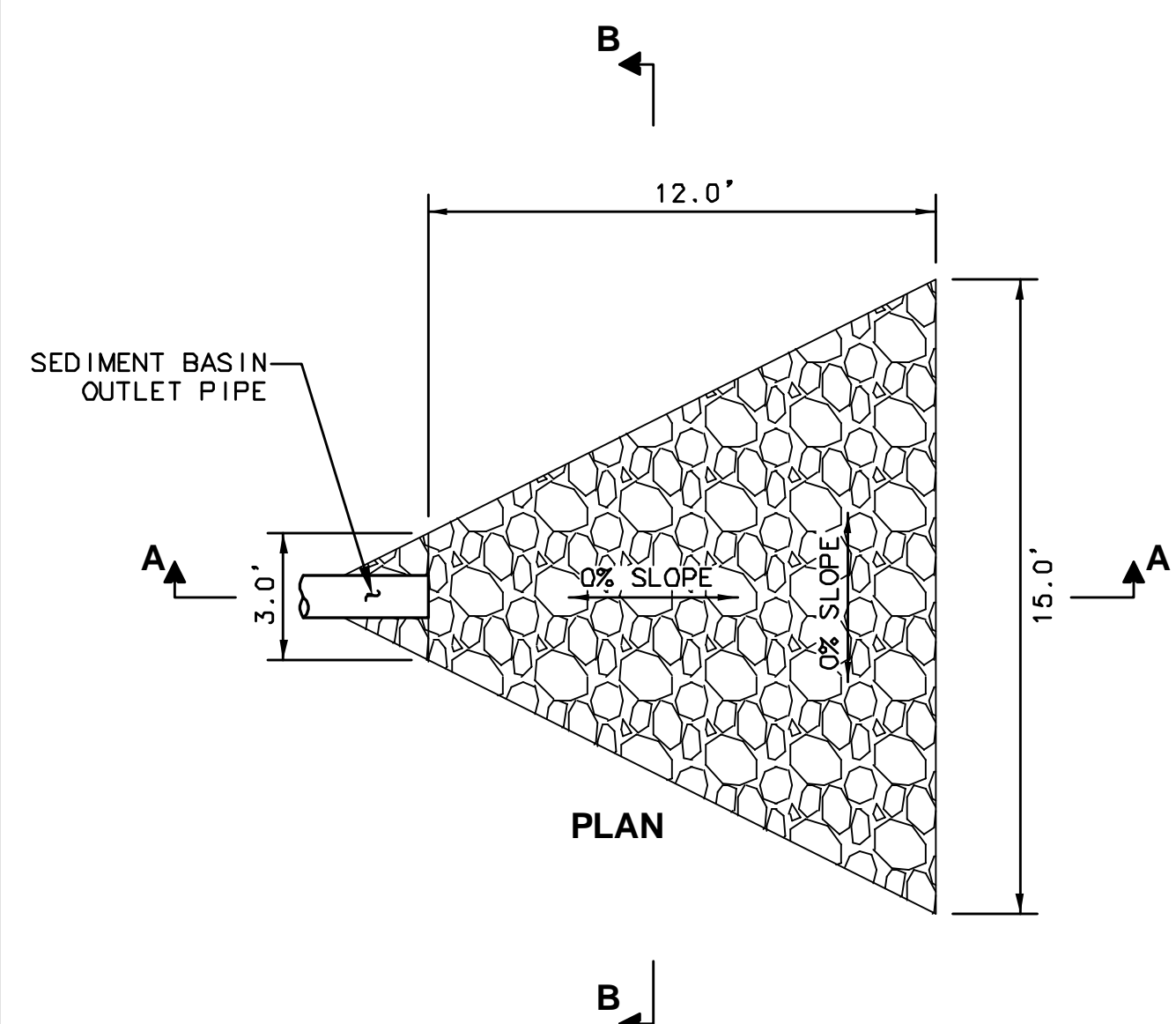
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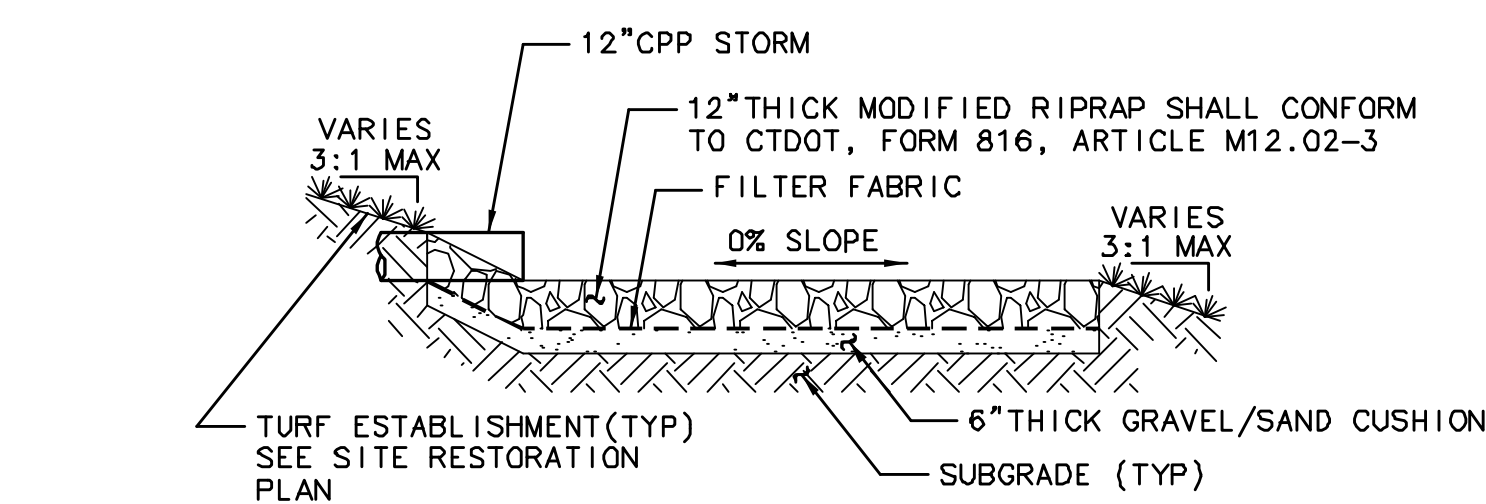
SECTION A-A



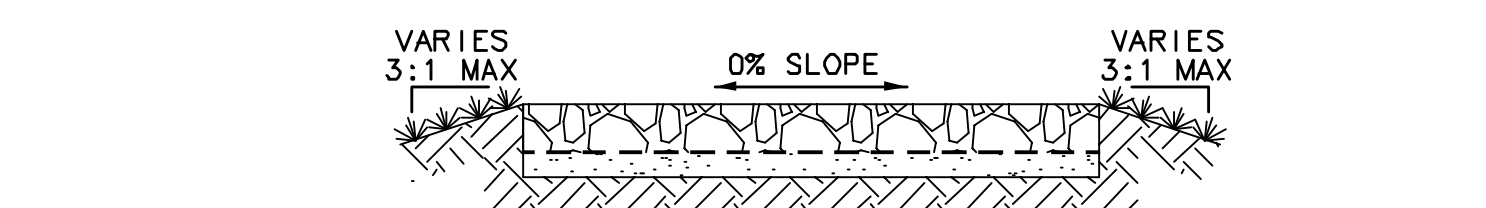
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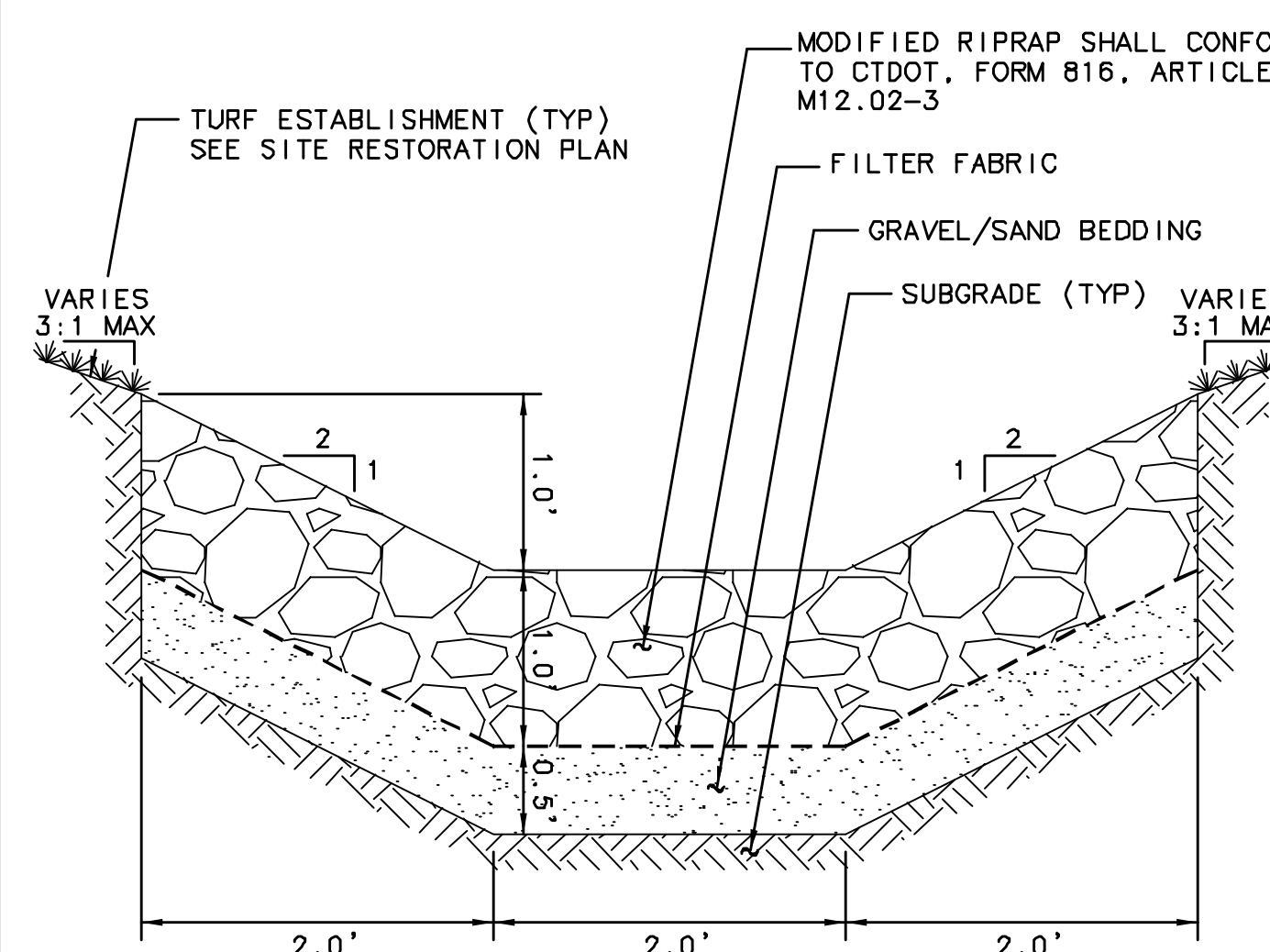
RIPRAP APRON



SECTION A-A

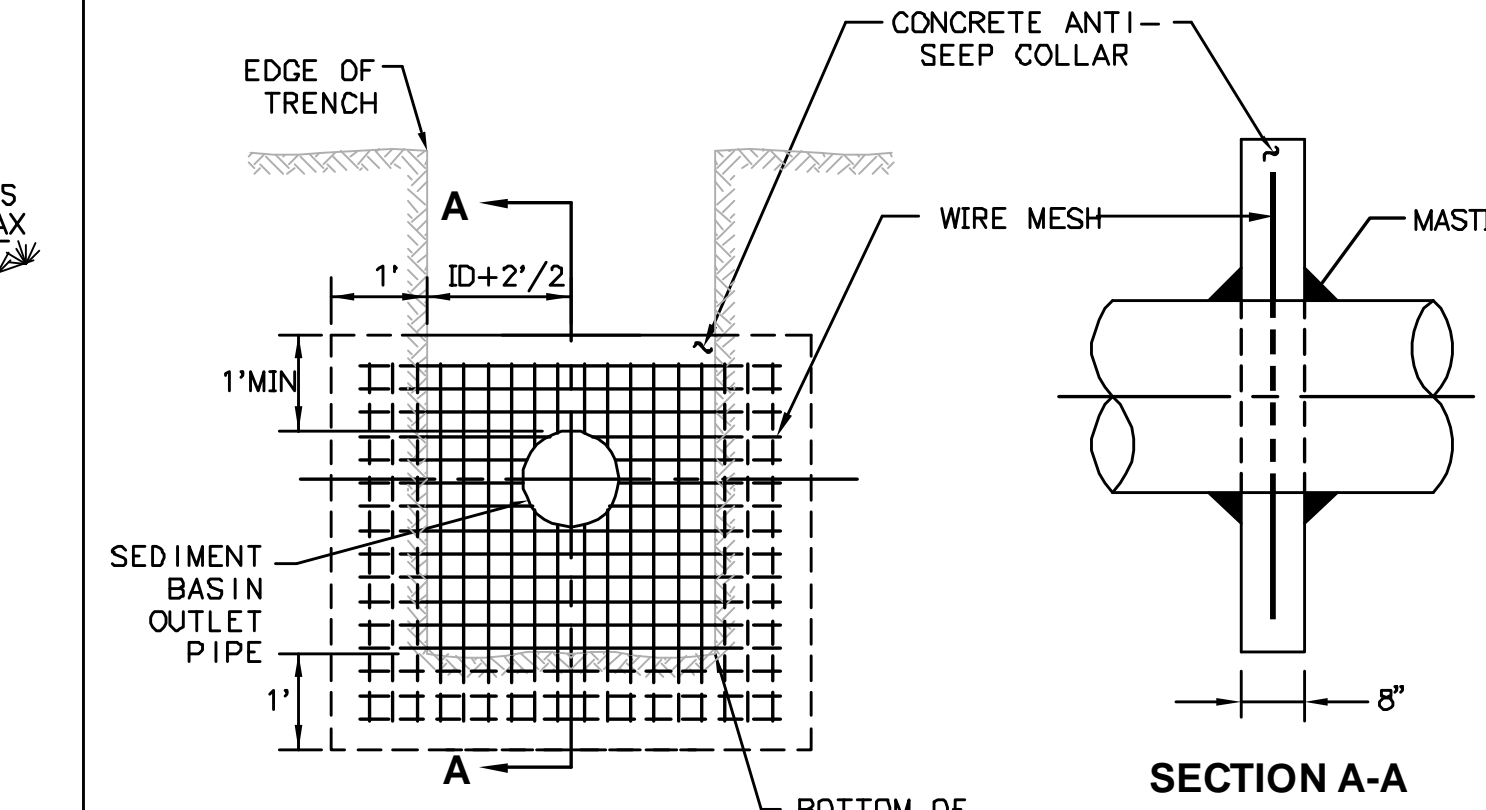


SECTION B-B



RIPRAP SWALE

(NTS)



ANTI-SEEP COLLAR

(NTS)

NOTES

1. CONCRETE SHALL BE AIR ENTRAINED, CLASS A - 4000 PSI. CEMENT CONCRETE
2. CONCRETE COVER FOR REINFORCING WIRE MESH SHALL BE 3".
3. COLLAR SHOULD BE A MINIMUM OF 2' FROM ANY PIPE JOINT.
4. INSTALL COLLAR AT ALL SEDIMENT BASIN OUTLET PIPE JOINTS.

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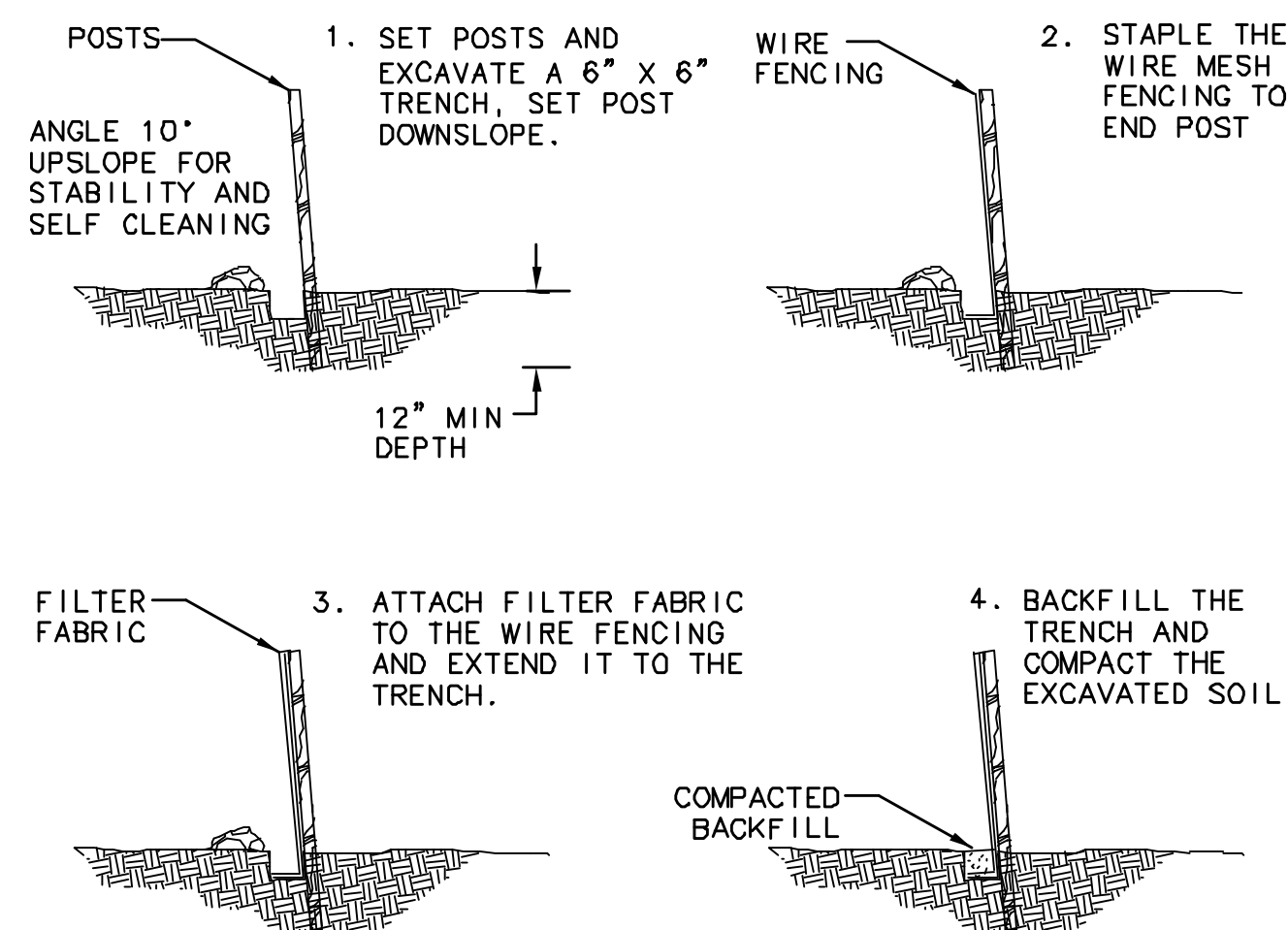
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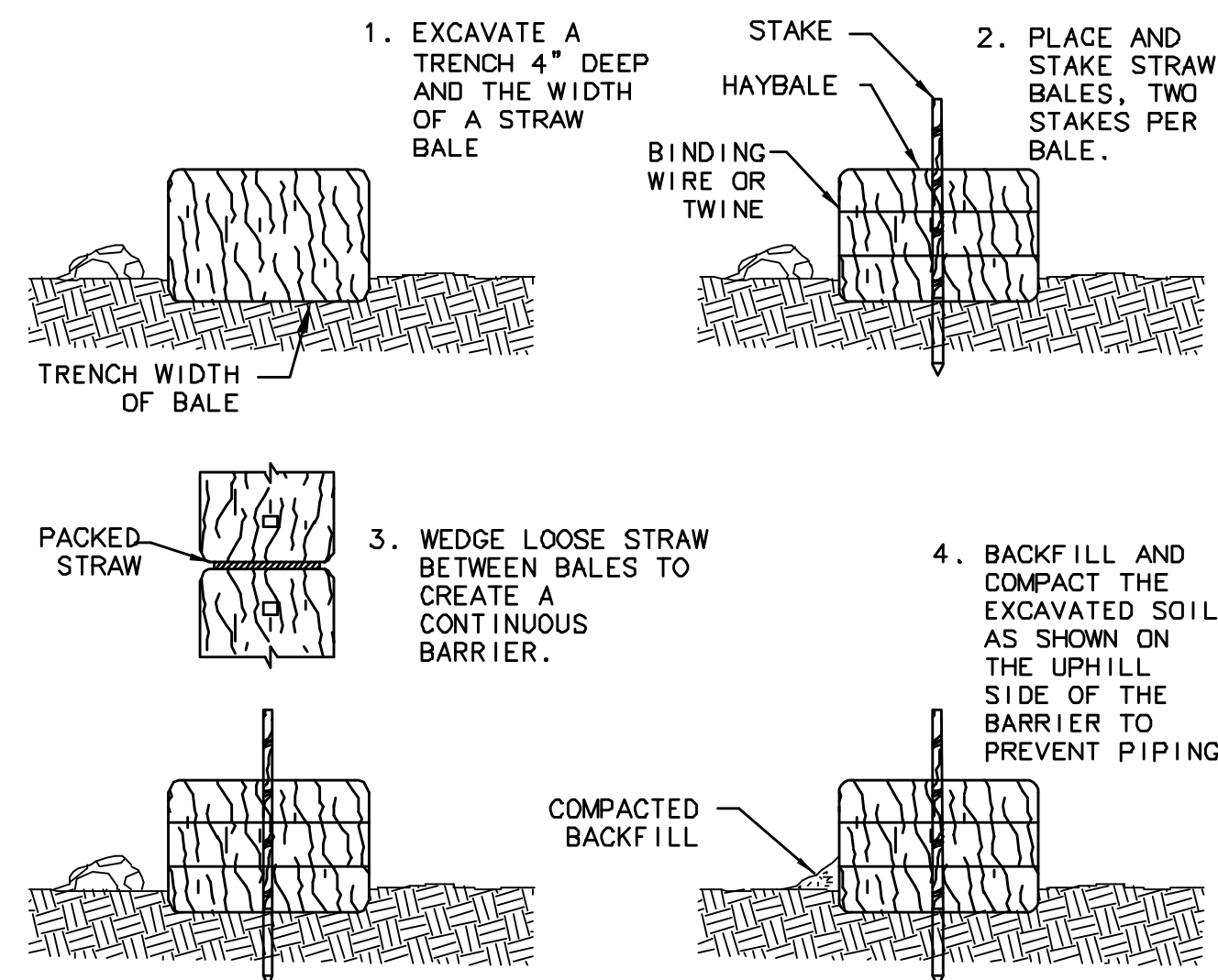
SITE SURFACE DETAILS

C11

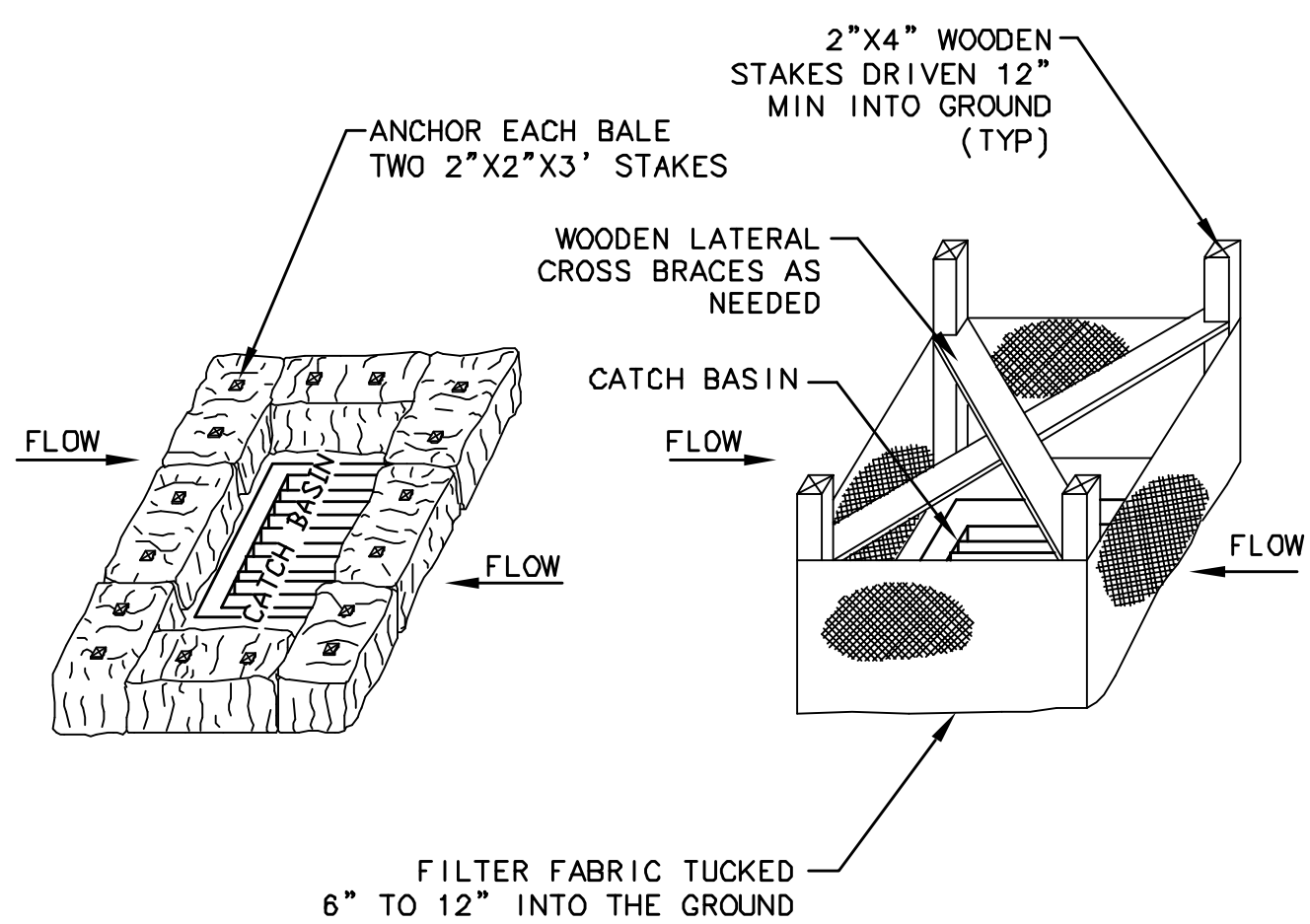
SHEET 24 OF 31



**SEDIMENTATION BARRIER
SILT FENCE**
NTS

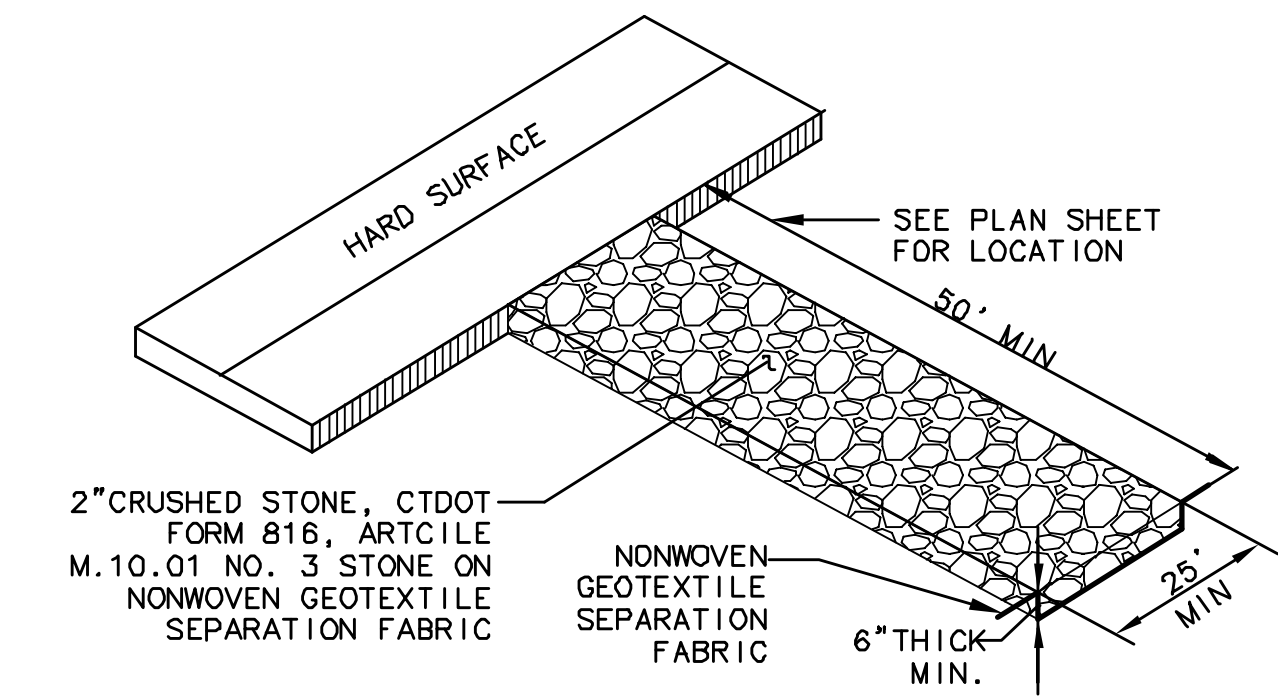


**SEDIMENTATION BARRIER
HAY BALE**
NTS



HAY BALE INSTALLATION SILT FENCE INSTALLATION

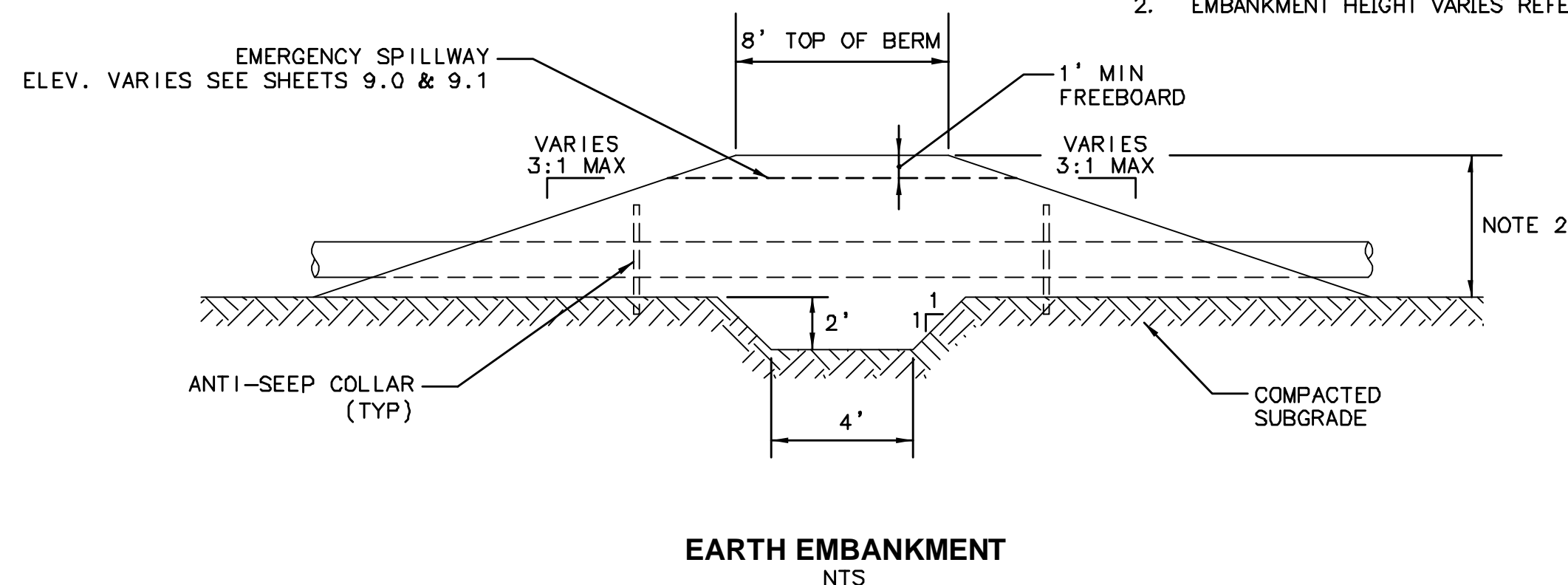
**SEDIMENTATION CONTROL
INLET PROTECTION**
NTS



**SEDIMENTATION CONTROL
CONSTRUCTION ENTRANCE**
NTS

NOTES

- THE FILL MATERIAL FOR EMBANKMENT SHALL BE CLEAN SOIL, FREE OF ROOTS, WOODY VEGETATION, STUMPS, SOD, OVERSIZED STONES, ROCKS OR OTHER ORGANIC OR UNSUITABLE MATERIAL. FILL MATERIAL SHOULD CONTAIN NO STONES LARGER THAN 6" AND AT LEAST 15% PASSING THE #200 SIEVE AND NOT MORE THAN 50% PASSING THE #200 SIEVE.
- EMBANKMENT HEIGHT VARIES REFER TO SHEETS 9.0 & 9.1



EARTH EMBANKMENT
NTS

PROJECT PURPOSE AND DESCRIPTION

THE PROPOSED PROJECT CONSISTS OF THE EARTH EXCAVATION OF A 12 ACRE SITE ON A 194± ACRE PARCEL LOCATED ON QUARRY ROAD IN BOLTON, CT FOR THE REMOVAL OF SAND AND GRAVEL. THE EXISTING PARCEL IS CURRENTLY OWNED BY MILTON AND ROSEMARY HATHAWAY AND HAS BEEN PREVIOUSLY APPROVED, BY THE TOWN OF BOLTON PLANNING AND ZONING, FOR A SIX ACRE GRAVEL/SAND PIT. CURRENTLY, 2 ACRES OF THE APPROVED SIX ACRE PIT AREA HAVE BEEN EXCAVATED.

TWELVE TEST PITS WERE PERFORMED BY THE CURRENT GRAVEL/SAND PIT CONTRACTOR AND A GEOTECHNICAL REPORT WAS GENERATED BY URS CORPORATION AES BASED ON THESE TEST PITS TO DETERMINE WHICH AREAS CONTAINED SAND AND GRAVEL SUITABLE FOR REMOVAL WITHIN THE TOWN APPROVED SIX ACRE PIT AREA. THE TEST PITS AND GEOTECHNICAL ANALYSIS INDICATED THAT THE REMAINING FOUR ACRES TO THE EAST OF THE EXISTING 2 ACRE PIT AREA ARE NOT SUITABLE FOR THE REMOVAL OF SAND AND GRAVEL. AS A RESULT OF THIS FIELD INVESTIGATION AND GEOTECHNICAL REPORT, 16 NEW BORINGS WERE DRILLED IN THE WOODED AREA TO THE WEST OF THE EXISTING 2 ACRE SAND AND GRAVEL PIT. A GEOTECHNICAL ANALYSIS OF THE BORING DATA INDICATED THAT THE SAND AND GRAVEL EXISTS TO THE EAST OF THE CURRENT 2 ACRE PIT LOCATION. THESE DRAWINGS DESCRIBE THE CLEARING, SOIL EROSION AND SEDIMENT CONTROLS, GRADING, PHASING AND RESTORATION, ETC. OF THE ADJOINING SIX ACRE PARCEL FOR THE EXTRACTION OF SAND AND GRAVEL AND THE RESTORATION OF THE ORIGINAL TOWN APPROVE 6 ACRE GRAVEL/SAND PIT AREA.

THE PROPOSED GRAVEL/SAND PIT INCLUDES A PERMANENT ACCESS ROAD INTO THE PIT, DRAINAGE AND STORMWATER MANAGEMENT SYSTEMS, GRADING, SOIL EROSION AND SEDIMENTATION CONTROL, EXCAVATION AND STAGING, AND RESTORATION PLANS. IT IS ANTICIPATED THAT THE PROPOSED PIT WILL BE CONSTRUCTED WITH NO MORE THAN 2 ACRES OF LAND, AS STAKED OUT BY A SURVEYOR, EXCAVATED INITIALLY AND NO MORE THAN 2 ACRES OF LAND AS STAKED OUT BY A SURVEYOR, HAVING EXPOSED OR UNSTABLE SOIL CONDITIONS AT ANY TIME EXCEPT THAT AN ADJOINING 2 ACRES MAY BE USED AS A WORK AREA. ALL OTHER AREAS SHOULD HAVE NATURAL VEGETATION PRESERVED, HAVE A GOOD COVER OF TEMPORARY OR PERMANENT VEGETATION ESTABLISHED OR BE HEAVILY MULCHED. THE PROPOSED 6 ACRE SITE MAY BE LOGGED AT ONE TIME IF THE STUMPS REMAIN. THE EXCAVATION AREAS PROPOSED GRADING FUNCTIONS AS AN EROSION CONTROL MEASURE AND WILL COLLECT RAINFALL RUNOFF AND TRAP SEDIMENT INTO THE PROPOSED PIT AREA. RUNOFF COLLECTED IN THE PIT AREA WILL INFILTRATE THROUGH THE EXPOSED SAND AND GRAVEL LAYERS AND INTO THE GROUND.

RAINFALL RUNOFF WILL BE COLLECTED IN RIP RAP LINED DRAINAGE SWALES ADJACENT TO THE PROPOSED ACCESS ROAD. ONCE IN THE DRAINAGE SWALE, RUNOFF WILL BE COLLECTED IN DRAINAGE STRUCTURES AND CONVEYED IN STORM SEWERS INTO THE PROPOSED SEDIMENT BASINS LOCATED ON THE WESTERN EDGE OF THE PROJECT AREA. THE SEDIMENT BASINS WILL LIMIT THE STORMWATER DISCHARGE OFF-SITE TO PRE-DEVELOPMENT LEVELS FOR THE 2, 10, 50 AND 100 YEAR STORM EVENTS.

ALL SOIL EROSION AND SEDIMENTATION CONTROLS SHALL CONFORM TO THE STANDARDS OUTLINED IN THE CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION (CTDEP), "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL", LATEST REVISIONS.

AREA OF DISTURBANCE

IT IS PROPOSED THAT APPROXIMATELY 6 ACRES OF THE EXISTING TOWN APPROVED GRAVEL/SAND PIT WILL BE DISTURBED AND 6 ACRES OF THE PROPOSED GRAVEL/SAND PIT EXPANSION AREA WILL BE DISTURBED. NO MORE THAN 2 ACRES OF LAND, AS STAKED OUT BY A SURVEYOR, SHALL BE EXCAVATED INITIALLY AND NO MORE THAN 2 ACRES OF LAND AS STAKED OUT BY A SURVEYOR, SHALL HAVE EXPOSED OR UNSTABLE SOIL CONDITIONS AT ANY TIME EXCEPT THAT AN ADJOINING 2 ACRES MAY BE USED AS A WORK AREA.

CONSTRUCTION SEQUENCE

- FLAG LIMITS OF CONSTRUCTION NECESSARY TO FACILITATE THE PRECONSTRUCTION MEETING.
- HOLD PRECONSTRUCTION MEETING. (REMEMBER TO CALL BEFORE YOU DIG 1-800-922-4455)
- FLAG REMAINDER OF LIMITS OF CONSTRUCTION AND TREE PROTECTION ZONES.
- INSTALL CONSTRUCTION ENTRANCE, PERIMETER EROSION AND SEDIMENT CONTROLS AND TREE PROTECTION DEVICES IN ACCORDANCE WITH THE EROSION AND SEDIMENTATION CONTROL PLAN.
- CUT TREES WITHIN THE DEFINED CLEARING LIMITS AND REMOVE CUT WOOD, CHIP BRUSH AND SLASH, REMOVE CHIPS OFFSITE.
- STRIP AND STOCKPILE ALL TOPSOIL THAT IS WITHIN THE INITIAL 2 ACRE EXCAVATION AREA. STOCKPILE TOPSOIL IN ACCORDANCE WITH THE CONNECTICUT EROSION AND SEDIMENT CONTROL MANUAL STOCKPILE MANAGEMENT GUIDELINES. REMOVE AND WINDROW STUMPS WITHIN THE INITIAL 2 ACRE EXCAVATION AND STAGING AREA. THE REMOVED STUMPS SHALL BE WINDROWED IN ACCORDANCE WITH THE STATE OF CONNECTICUT GUIDELINES.
- REMOVE VEGETATION FROM PROPOSED DISTURBED AREA; ALL STUMPS AND DEBRIS SHOULD BE WINDROWED WHERE SHOWN ON PLAN.
- STRIP TOPSOIL TO ITS FULL DEPTH REGARDLESS OF VARIATION IN DEPTH IN ALL CUT AREAS AND AS DIRECTED. EFFORTS SHOULD BE MADE TO AVOID MIXTURE OF SUBSOIL TO TOPSOIL PILE. STOCK PILE IN AREAS FREE OF GRAVEL MINING OPERATIONS. IMMEDIATELY SEED TOPSOIL PILES WITH APPROXIMATE RYEGRASS, RATE: 5 POUNDS PER 1,000 SQUARE FEET AND RING LOWER LEVELS WITH SILT FENCE.
- WORK AREAS ARE LIMITED TO THOSE SHOWN ON THE PLAN. WORK AREAS SHOULD BE KEPT TO A MAXIMUM 600 FEET OF CUT FACE DISTURBANCE AT ANY TIME. CARE SHOULD BE TAKEN TO PERMANENTLY SEED AND STABILIZE AREAS AS SOON AS PRACTICABLE. MAXIMUM ANGLE OF THE CUT FACE SHALL NOT EXCEED 1 1/2' TO 1' (1 1/2' HORIZONTALLY TO 1' VERTICALLY).
- REMOVE FROM THE SURFACE ALL STONES TWO INCHES OR LARGER IN ANY DIMENSION. REMOVE ALL OTHER DEBRIS, SUCH AS WIRE, CABLE, TREE ROOTS, CLOUDS, LUMPS OR OTHER UNSUITABLE MATERIAL. INSPECT SEEDBED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE RETILLED AND FIRMED. ALL DISTURBED AREAS SHALL BE RESTORED WITH GRASS. LIMESTONE SHALL BE APPLIED TO THE AREA TO BE SEED AT THE MINIMUM RATE OF TWO TONS PER ACRE AND 10-10-10 FERTILIZER OR EQUIVALENT SHALL BE ADDED AT THE RATE OF 300 POUNDS PER ACRE. A MINIMUM DEPTH OF 4 INCHES OF MULCH AND/OR TOPSOIL SHALL BE SPREAD OVER THE AREA TO BE ESTABLISHED WITH VEGETATION. THE ZONING ENFORCEMENT OFFICER MAY APPROVE DIFFERENT APPLICATION RATES AS PROPOSED BY A SUITABLE AGENCY SUCH AS THE SOIL CONSERVATION SERVICE. ALL SEEDING AREAS SHALL BE MAINTAINED TO ENSURE PROPER GROWTH AND TO MINIMIZE EROSION. ON 3 TO 1 SLOPES, SEED MIXTURE CONSISTING OF 15 POUNDS CROWN VETCH AND 10 POUNDS PERENNIAL RYEGRASS MAY BE SUBSTITUTED. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY FOLLOWING FINISHED GRADING. IF FINAL GRADING IS TO BE DELAYED FOR MORE THAN 30 DAYS AFTER LAND DISTURBANCE, TEMPORARY SOIL STABILIZATION MEASURES SHALL BE APPLIED IMMEDIATELY. APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL SEEDER, CULTIPACKER TYPE SEEDER OR HYDROSEEDER (SLURRY INCLUDING SEED AND FERTILIZER). NORMAL SEEDING DEPTH IS FROM 1/4 TO 1/2 INCH. HYDROSEEDINGS WHICH ARE MULCHED MAY BE LEFT ON SOIL SURFACE. WHERE FEASIBLE, EXCEPT WHERE EITHER A CULTIPACKER TYPE SEEDER OR HYDROSEEDER IS USED, THE SEEDBED SHOULD BE FIRMED FOLLOWING OPERATIONS WITH A ROLLER, OR LIGHT DRAG. SEEDING OPERATIONS SHOULD BE ON CONTOUR.

CONSTRUCTION SEQUENCE (CONTINUED)

PERMANENT SEEDING	SEEDING DATES
KENTUCKY BLUEGRASS	20 LBS/ACRE 4/1 TO 6/15, 8/15 TO 10/1
CREeping RED FESCUE	20 LBS/ACRE 4/1 TO 6/15, 8/15 TO 10/1
PERENNIAL RYEGRASS	5 LBS/ACRE 4/1 TO 6/15, 8/15 TO 10/1
TEMPORARY SEEDING	SEEDING DATES
WINTER RYE	120 LBS/ACRE 4/15 TO 7/1, 8/15 TO 10/15
ANNUAL RYEGRASS	40 LBS/ACRE 3/1 TO 6/15, 8/1 TO 10/15

- MULCH (ALL SLOPES 3% OR GREATER); USE STRAW OR HAY (70-90 LBS/1000 SF) FREE OF WEEDS OR COARSE MATTER. MULCH MUST BE INSPECTED PERIODICALLY; IN PARTICULAR, AFTER RAINSTORMS TO CHECK FOR HILL EROSION. WHERE EROSION IS SEVERE, ADDITIONAL MULCH SHALL BE APPLIED. GRASSES SHALL NOT BE CONSIDERED ESTABLISHED UNTIL A GROUND COVER IS ACHIEVED WHICH IS MATURE ENOUGH TO CONTROL SOIL EROSION AND TO SURVIVE SEVERE WEATHER CONDITIONS.
- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE PERFORMED IN ACCORDANCE WITH THE "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" BY THE CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION IN COOPERATION WITH THE CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION DATED 2002. ALL DISTURBED AREAS SHALL BE KEPT TO A MINIMUM. FINAL GRADING AND RESTORATION SHALL BE ACCOMPLISHED AS SOON AS PRACTICABLE. EROSION AND SEDIMENT CONTROL STRUCTURES SHALL BE INSTALLED PRIOR TO SITE WORK. EROSION AND SEDIMENT CONTROL MEASURES SHALL CONSIST OF NON-WOVEN FILTER FABRIC MATERIAL AND STAKED HAY BALES PURSUANT TO SOIL SEDIMENT CONTROL GUIDELINES. ALL MATERIALS SHALL BE NEW AND FREE FROM DEFECTS THAT WOULD COMPROMISE THE EFFECTIVENESS OF THE CONTROL MEASURES. LOCATION OF EROSION AND SEDIMENT CONTROL STRUCTURES ARE INDICATED ON SITEPLAN. (SEE LEGEND FOR CONTROL STRUCTURE SYMBOL.) ALL STRUCTURES ARE TO BE LOCATED DOWNGRADE FROM DISTURBED AREAS. ALL CONTROL STRUCTURES SHALL BE MAINTAINED THROUGHOUT OPERATION OF GRAVEL/SAND EXCAVATION OPERATIONS UNTIL STABILIZATION HAS BEEN OBTAINED. REPAIRS TO E&S MEASURES SHALL BE CONDUCTED WITHIN 48 HOURS.
- DURING DRY WEATHER CONDITIONS, DISTURBED AREAS SHALL BE PROTECTED AGAINST WIND EROSION. DUSTY AREAS ARE TO BE SPRAYED WITH WATER AND/OR CALCIUM CHLORIDE TO PREVENT WIND-BORNE PARTICLES.
- THE PROPOSED EARTH EXCAVATION OPERATION CONSISTS OF APPROXIMATELY 6 ACRES. THE GRAVEL OPERATION IS TO BE PRECEDED BY THE INSTALLATION OF THE CONSTRUCTION ENTRANCE AND THE PAVEMENT MILLINGS SURFACE ACCESS ROAD TO THE FIRST PHASE LOCATION AS SHOWN AND DETAILED ON THE PLANS. THEN STUMPING AND REMOVAL OF TOPSOIL WILL BEGIN. ONCE THE TOPSOIL IS REMOVED, THE TOPSOIL PILE WILL BE STABILIZED AND TEMPORARILY SEEDDED. THE REMOVAL OF MATERIAL CAN NOW BEGIN. IT WILL BE THE RESPONSIBILITY OF THE OPERATOR OF THE GRAVEL OPERATION TO KEEP ALL WORKING SLOPES AT A MINIMUM OR ONE VERTICAL TO ONE AND ONE-HALF HORIZONTAL AT THE END OF EACH DAY. AT THE COMPLETION OF EACH SECTION, THE SECTION WILL THEN BE LOAMED WITH 4" MINIMUM MULCH AND/OR TOPSOIL AND THEN CULTIVATED OR SEEDDED. ALL SLOPES GREATER THAN 3% WILL BE MULCHED AND NO FINAL GRADE SLOPES WILL BE GREATER THAN 1 VERTICAL TO 3 HORIZONTAL. THE START OF THIS GRAVEL/SAND EXCAVATION OPERATION WILL BEGIN FOLLOWING APPROVALS.
- DURING GRAVEL REMOVAL OPERATIONS IT SHALL BE THE RESPONSIBILITY OF THE OWNER, TO ASSUME RESPONSIBILITY OF IMPLEMENTING THIS EROSION AND SEDIMENT CONTROL PLAN. THIS RESPONSIBILITY INCLUDES INSTALLATION AND MAINTENANCE OF CONTROL MEASURES, INFORMING ALL PARTIES ENGAGED ON THE CONSTRUCTION SITE OF THE REQUIREMENTS AND OBJECTIVES OF THE PLAN, NOTIFYING THE ZONING COMMISSION OF ANY TRANSFER OF THIS RESPONSIBILITY AND FOR CONVEYING A COPY OF THE EROSION AND SEDIMENT CONTROL PLAN IF AND WHEN THE TITLE OF THE LAND IS TRANSFERRED. THIS PLAN REPRESENTS SITE DEVELOPMENT AS A SEQUENTIAL INTEGRATED ACTIVITY. UNIQUE CONDITIONS MAY ARISE WITHIN SPECIAL AREAS OR PARCELS DURING CONSTRUCTION. ANY NEW ACTIN AS REQUIRED TO MEET THESE CONDITIONS SHALL BE PRESERVED TO THE APPROPRIATE REGULATORY AGENCIES THROUGH THEIR SPECIFIC PERMIT PROCESSES.
- WHEN ALL OTHER WORK HAS BEEN COMPLETED, REPAIR ALL PAVEMENT MILLINGS ACCESS ROAD AREAS. INSPECT DRAINAGE SYSTEM AND STORMWATER MANAGEMENT AREAS AND CLEAN AS NEEDED.
- AFTER THE SITE IS STABILIZED, REMOVE TEMPORARY EROSION AND SEDIMENTATION CONTROL DEVICES (E.G. SILT FENCE, HAYBALES, INLET PROTECTION, ETC.)

SCHEDULE

THE PROJECT IS SCHEDULED TO BEGIN IN THE SUMMER OF 2008.

SEDIMENT BASIN MAINTENANCE

- ONCE CONSTRUCTION HAS BEEN COMPLETED, THE OWNER SHALL IMPLEMENT THE FOLLOWING OPERATIONAL AND MAINTENANCE PLAN FOR THE PROPOSED SEDIMENT BASINS.
- IN THE FIRST YEAR FOLLOWING CONSTRUCTION, THE OWNER SHALL INSPECT THE DETENTION BASIN AT LEAST ONCE PER WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH RAINFALL AMOUNT OF 0.5 INCHES OR GREATER TO DETERMINE MAINTENANCE NEEDS AND EXCESSIVE SCOUR AT THE OUTLETS.
- CLEAN TRASH RACKS AS NEEDED.
- REPAIR SCOUR AT THE OUTLETS. IF EROSION IS SEVERE OR A REPETITIVE NATURE THE OWNER SHALL OBTAIN THE SERVICES OF A PROFESSIONAL ENGINEER TO REDESIGN THE OUTLET PROTECTION.
- AFTER THE FIRST YEAR, INSPECT THE BASIN EVERY 3 MONTHS OR AFTER A MAJOR STORM EVENT, WHICH EVER COMES FIRST AND CLEAN TRASH RACKS IF NEEDED.
- REMOVE ACCUMULATED SEDIMENT IF THE SEDIMENT INTERFERES WITH THE NEEDED DETENTION CAPACITY OR OPERATION OF THE OUTLET CONTROL STRUCTURE.



Bolton PZC
Special Permit / Site Plan
Approved November 12, 2008
5-Year Date for Completion
of Improvements:
September 16, 2015

Chairman/Secretary Date Signed

THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE, DISCLOSURE OTHER THAN THAT WHICH RELATES TO HATHAWAY SAND AND GRAVEL, LLC IS STRICTLY PROHIBITED.

REVISIONS

NUMBER	DATE	REMARKS
1	4/7/08	REVISED SURVEY
2	7/9/08	PNZ COMMENTS
3	8/20/08	PNZ COMMENTS
4	11/18/10	PNZ CONDITIONS

**HATHAWAY
SAND & GRAVEL, LLC
EARTH EXCAVATION
PLANS**
TOWN OF
BOLTON, CONNECTICUT

PROJECT NO: 36928477.00

DRAWN BY: KMM

CHECKED BY: RGT

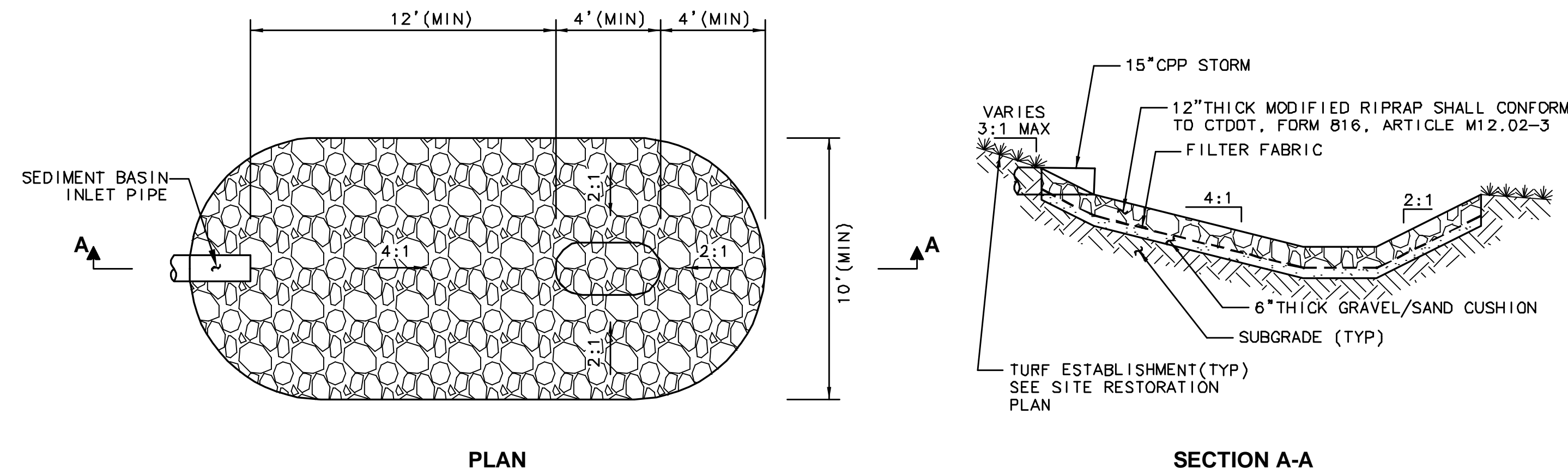
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**SOIL EROSION &
SEDIMENTATION
CONTROL DETAILS
& NOTES**

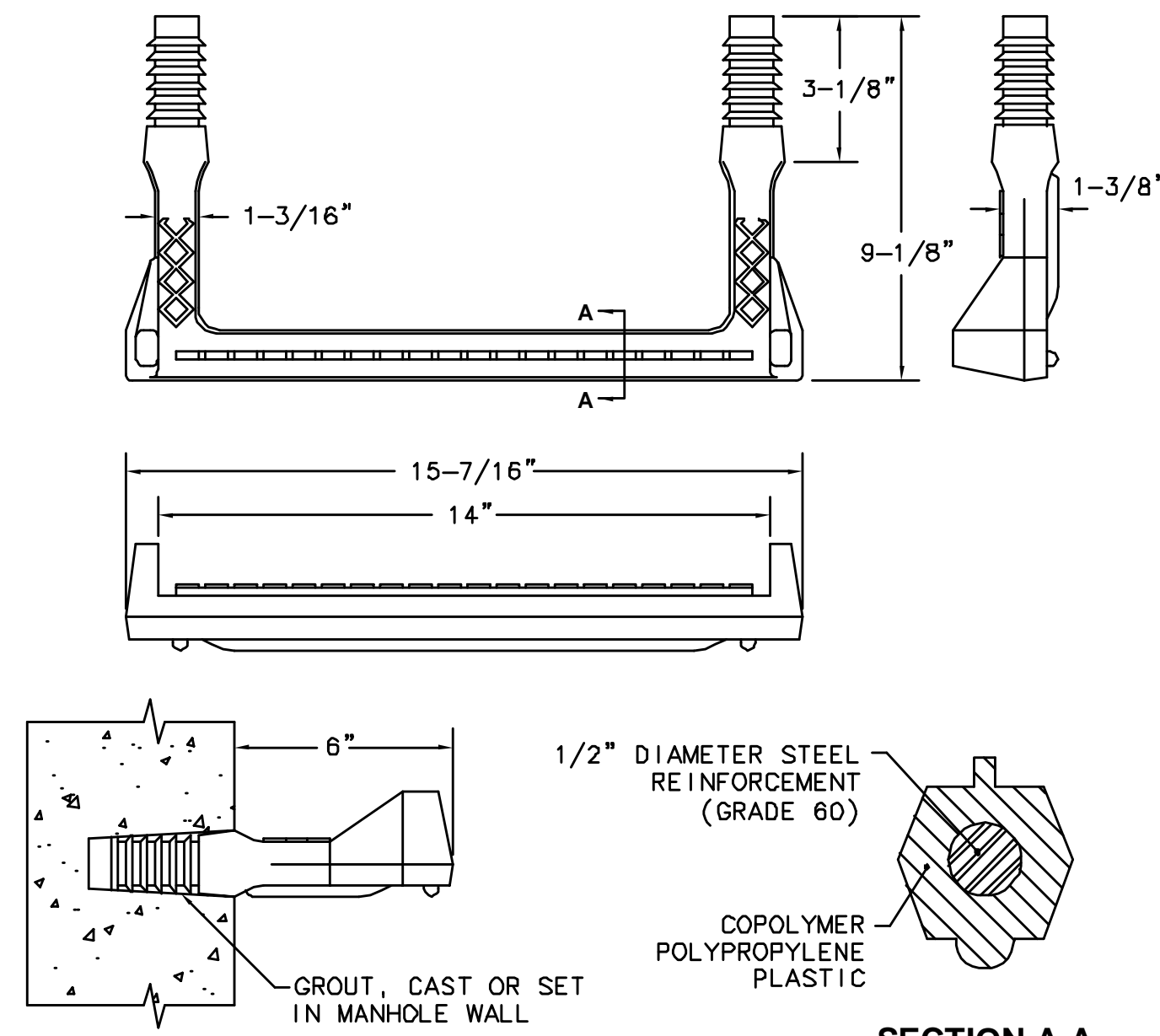
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SHEET 25 OF 31



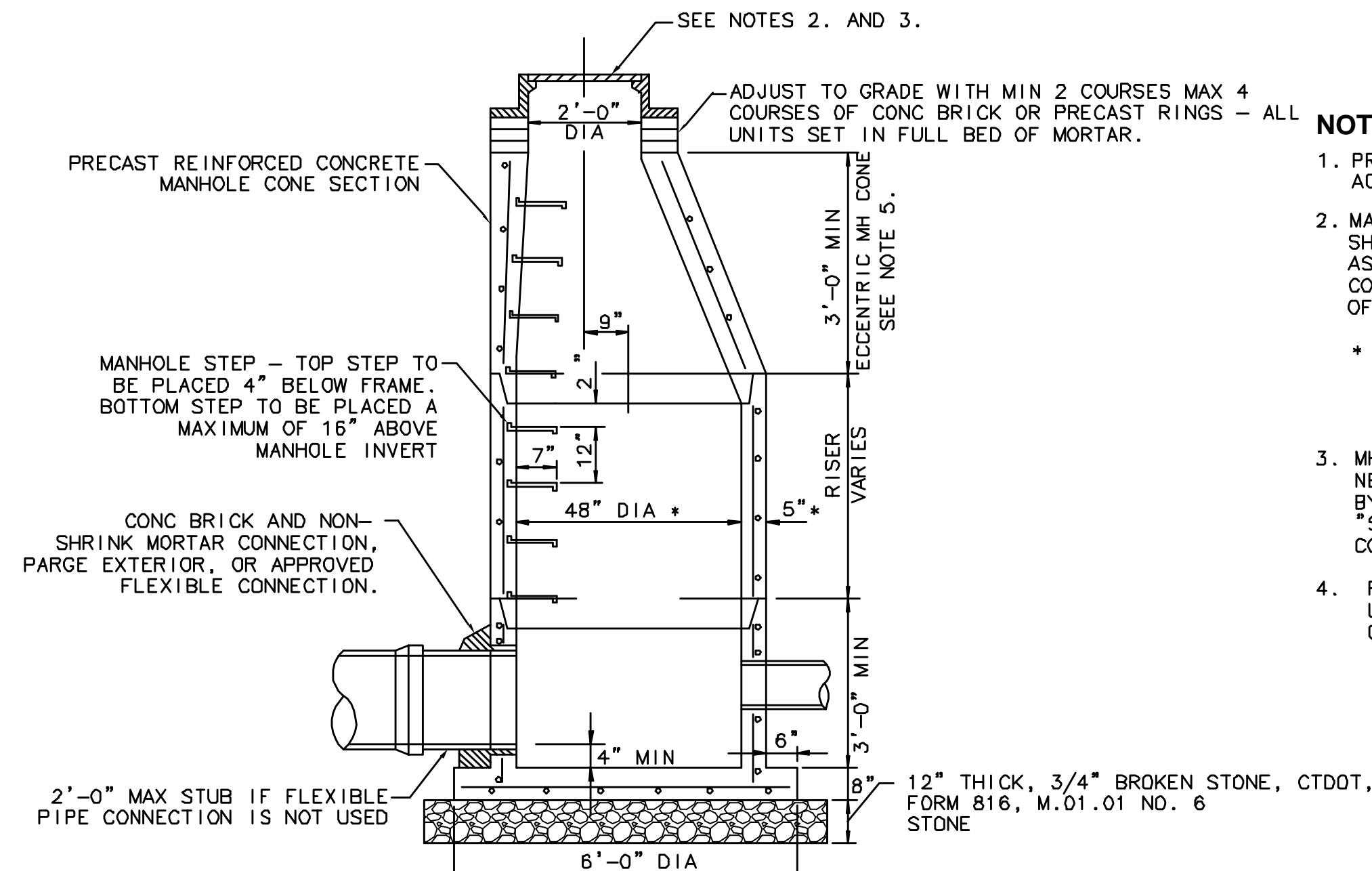
RIPRAP STILLING BASIN

NTS



COPOLYMER POLYPROPYLENE PLASTIC STEEL REINFORCED MANHOLE STEP

NTS



STORM SEWER MANHOLE

NTS

NOTES:

1. PRECAST MANHOLE SHALL BE IN ACCORDANCE WITH ASTM C-478
2. MANHOLE FRAMES & COVERS SHALL BE GRAY CAST IRON, ASTM A48, CLASS 35B COMPLYING WITH REQUIREMENTS OF FS RR-F-621
3. MH FRAME AND COVER SHALL BE NENAH R-1642-1 UNLESS OTHERWISE DIRECTED BY THE OWNER'S REPRESENTATIVE. THE WORDS "STORM SEWER" SHALL BE CAST INTO THE COVER.
4. FOR TOP SECTION LESS THAN 3'-0" USE RISER AND FLAT SLAB MH TOP CAPABLE OF WITHSTANDING H2O LOADING

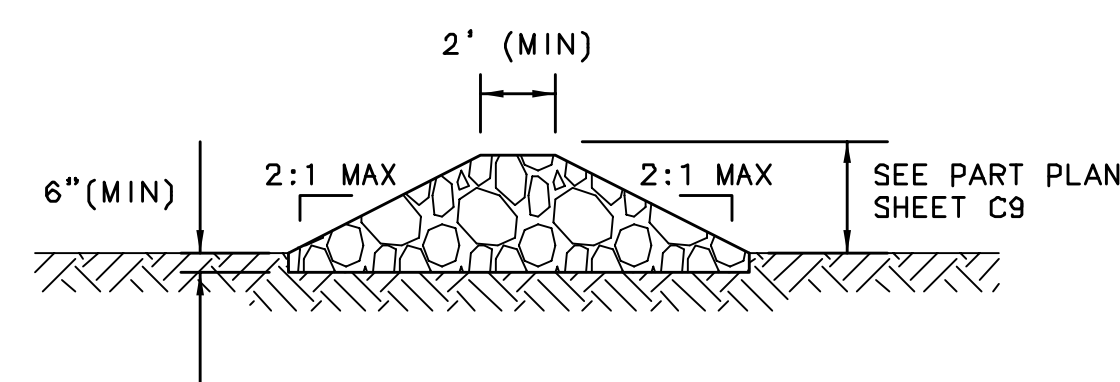
Bolton PZC
Special Permit / Site Plan
Approved November 12, 2008
5-Year Date for Completion
of Improvements:
September 16, 2015

Chairman/Secretary Date Signed

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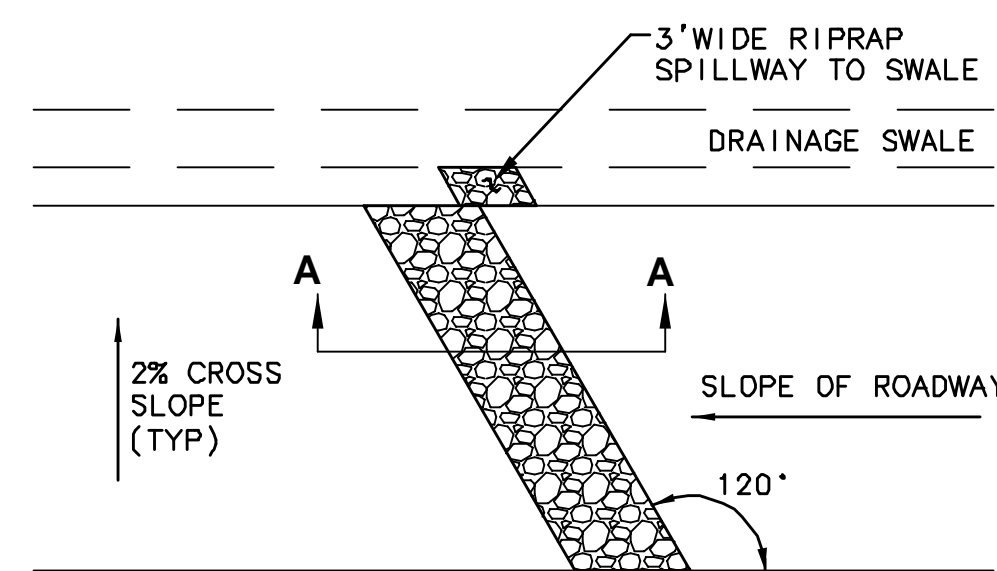
REVISIONS

NUMBER	DATE	REMARKS
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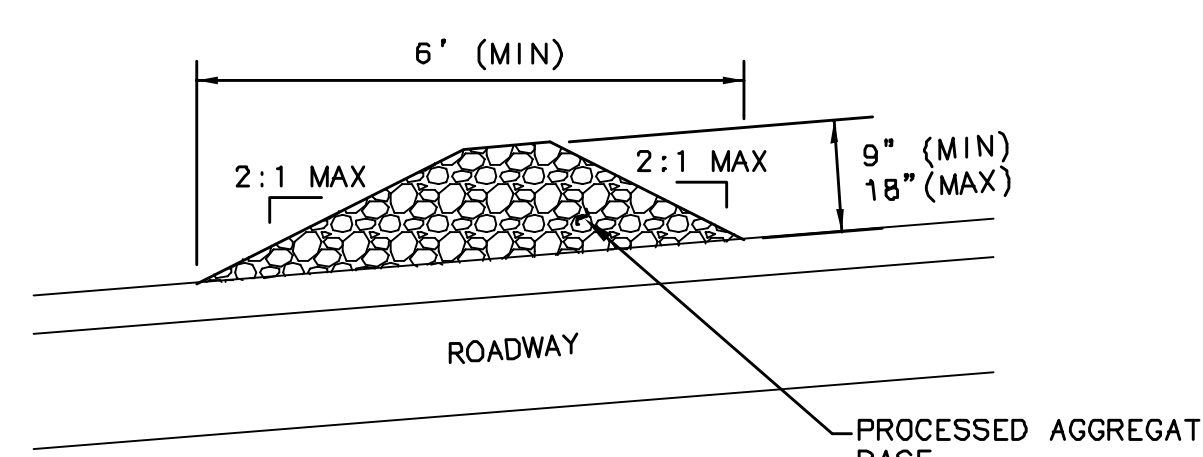


RIPRAP BERM

NTS



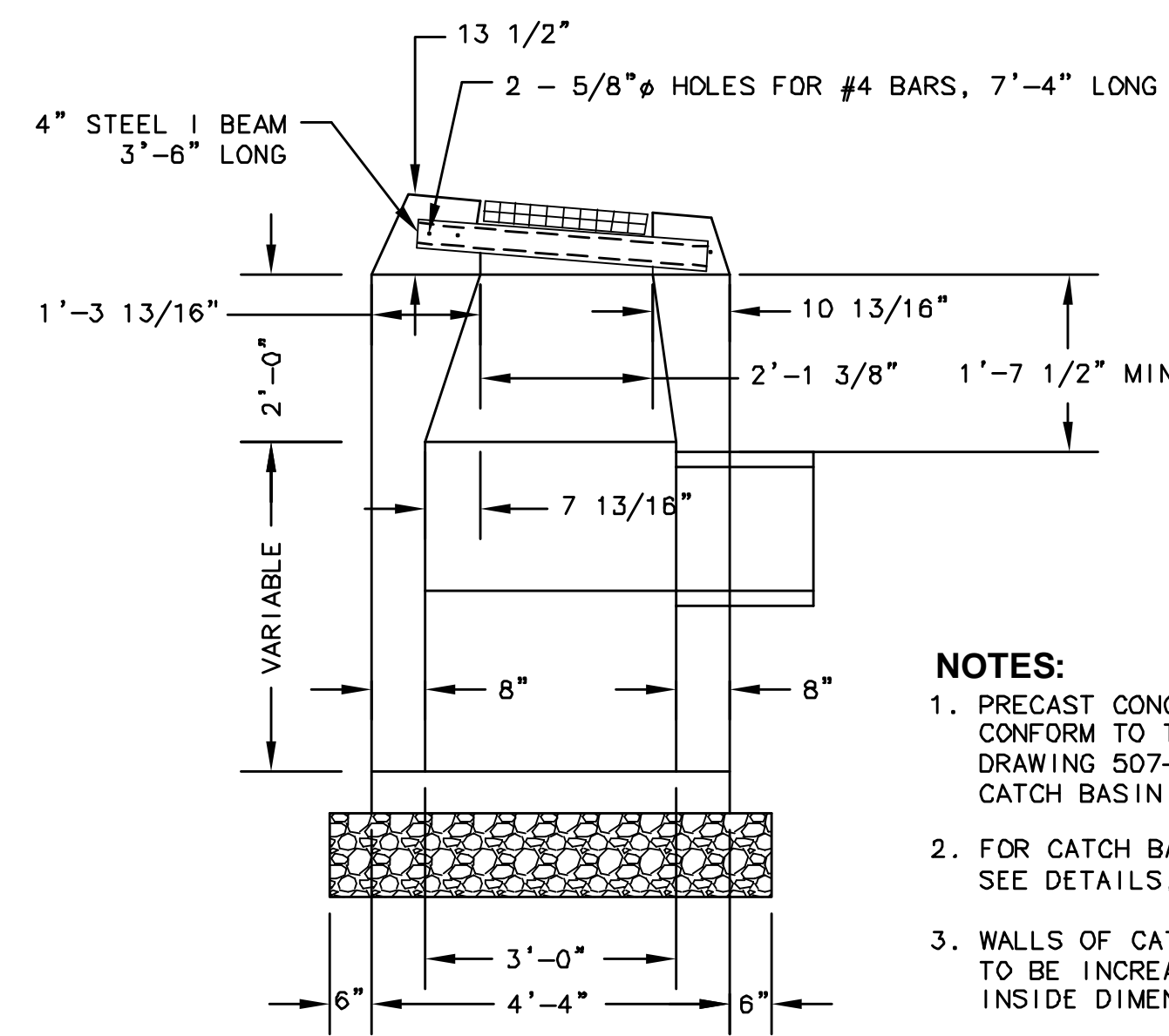
PLAN



SECTION A-A

WATER BAR/BERM

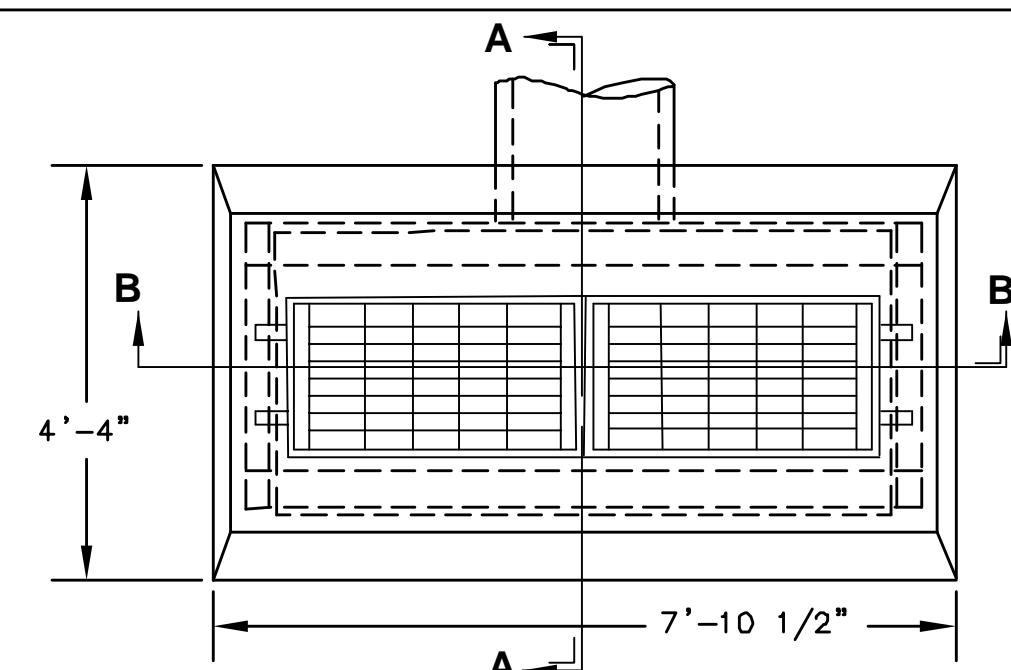
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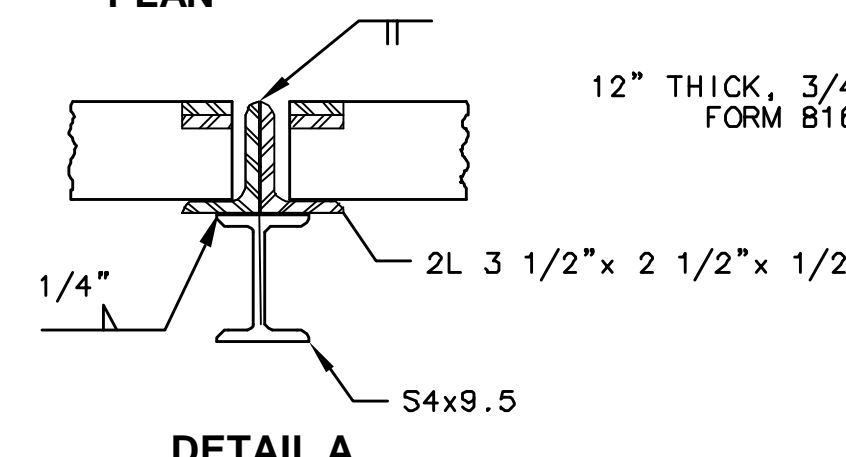
SECTION A-A

NOTES:

1. PRECAST CONCRETE UNITS SHALL CONFORM TO THE CTDOT STANDARD DRAWING 507-H "PRECAST CONCRETE CATCH BASIN TYPE 'C'."
2. FOR CATCH BASIN FRAMES AND GRATES SEE DETAILS, SHEET C13.
3. WALLS OF CATCH BASINS OVER 10 FT. DEEP TO BE INCREASED TO 12" THICKNESS. INSIDE DIMENSIONS TO REMAIN THE SAME.
4. INSTALL CATCH BASIN ON 12" THICK, 3/4" BROKEN STONE, CTDOT FORM 816 M.01.01, No. 6 STONE.



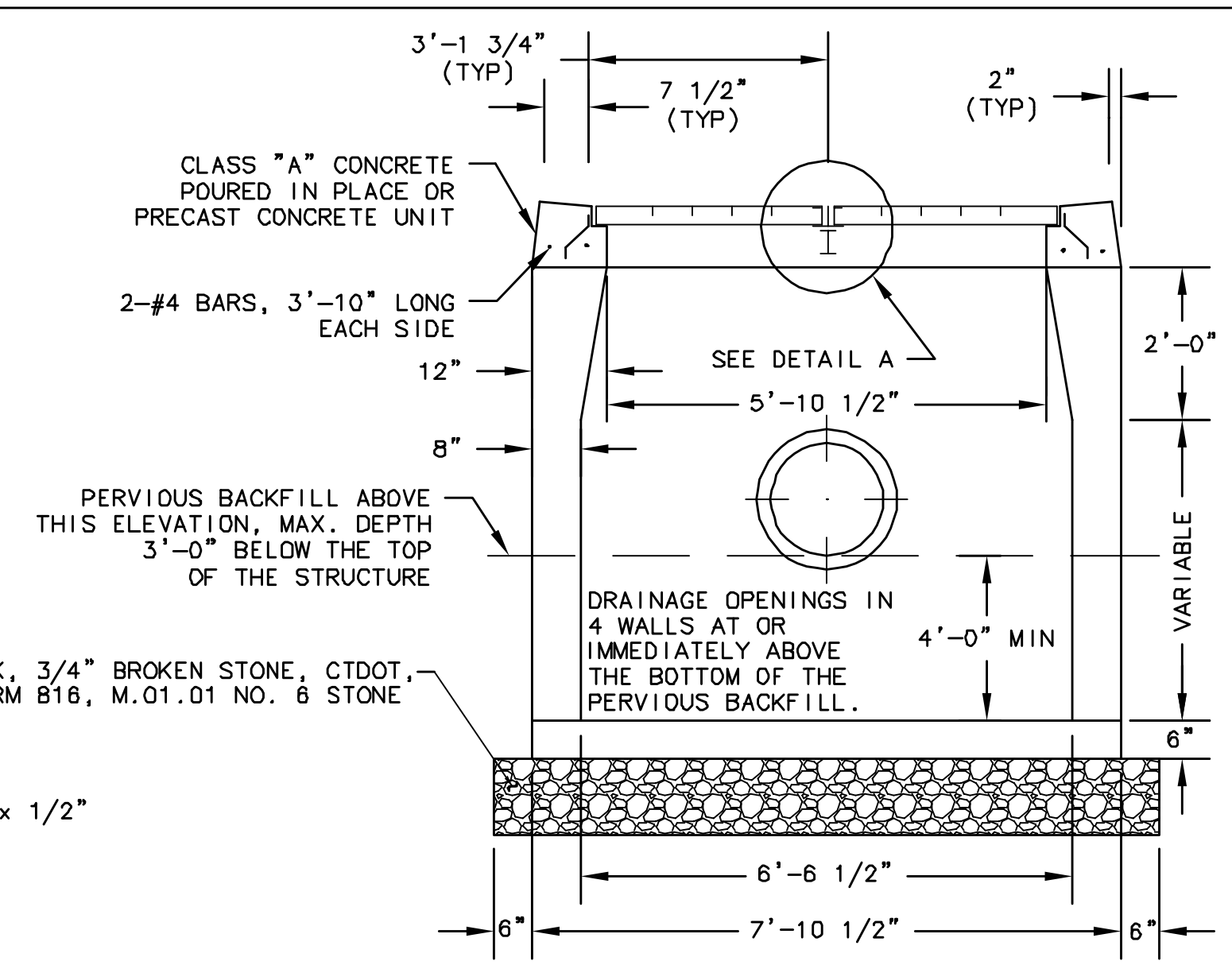
PLAN



DETAIL A

TYPE "C-L" CATCH BASIN DOUBLE GRATE TYPE II

NTS



SECTION B-B

HATHAWAY
SAND & GRAVEL, LLC
EARTH EXCAVATION
PLANS
TOWN OF
BOLTON, CONNECTICUT

PROJECT NO: 36928477.00

DRAWN BY: KMM

CHECKED BY: RGT

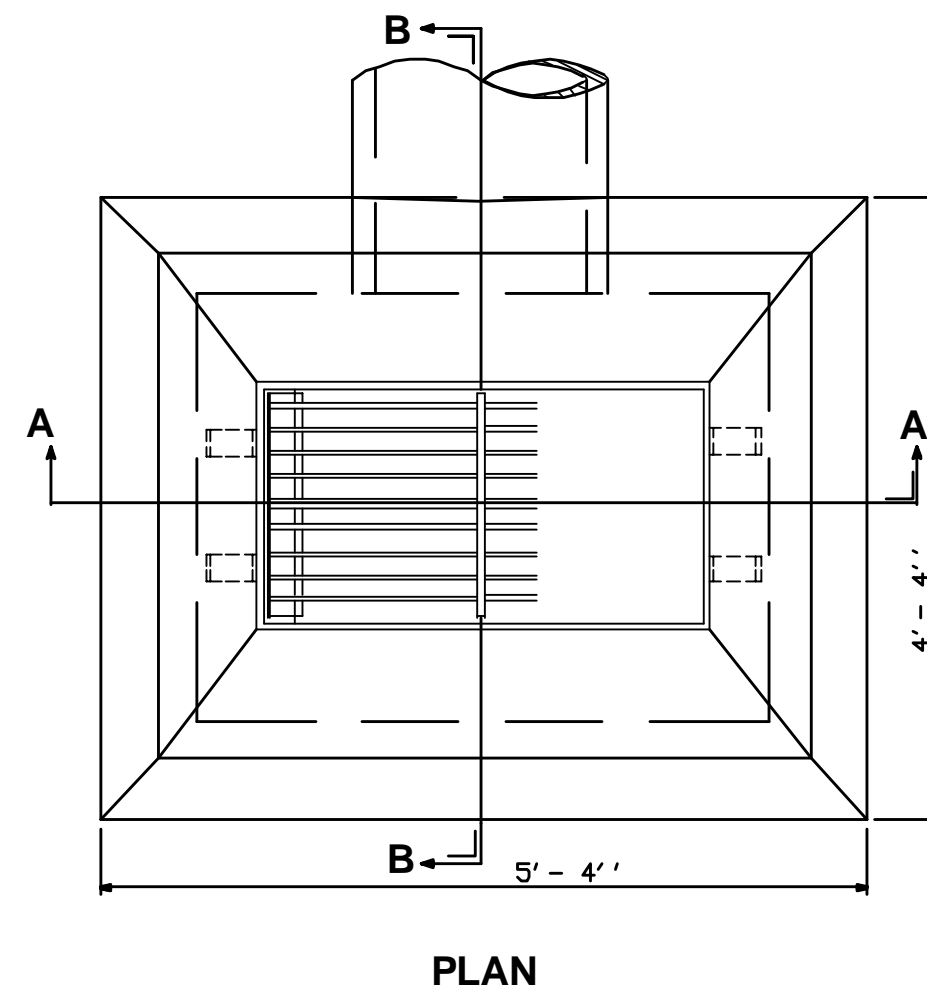
DATE: JANUARY 19, 2007

CADD FILE: C12.DWG

SITE UTILITY AND DRAINAGE DETAILS

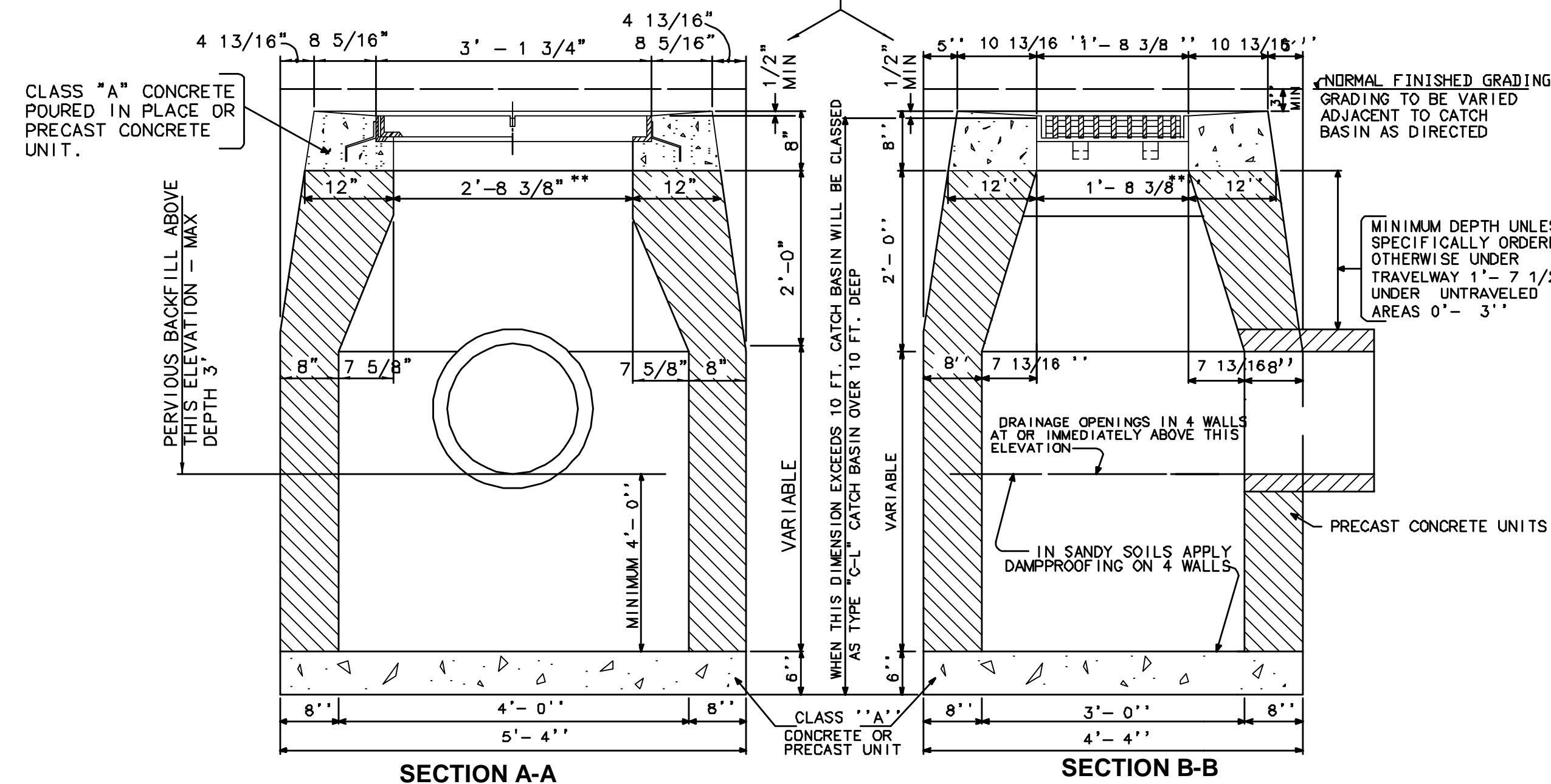
C12.1

- NOTE:**
1. PRECAST CONCRETE UNITS SHALL CONFORM TO THE CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD DRAWING 507-H "PRECAST CONCRETE CATCH BASIN TYPE 'C' OR 'C-L'."
 2. CATCH BASIN FRAMES AND GRATES SHALL CONFORM TO THE CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD DRAWING 507K "CATCH BASIN FRAMES AND GRATES."
 3. WALLS OF CATCH BASINS OVER 10 FT. DEEP TO BE INCREASED TO 12" THICKNESS. INSIDE DIMENSIONS TO REMAIN THE SAME.



PLAN

THIS DIMENSION MAY BE INCREASED TO 1 1/2" AT THE DIRECTION OF THE ENGINEER

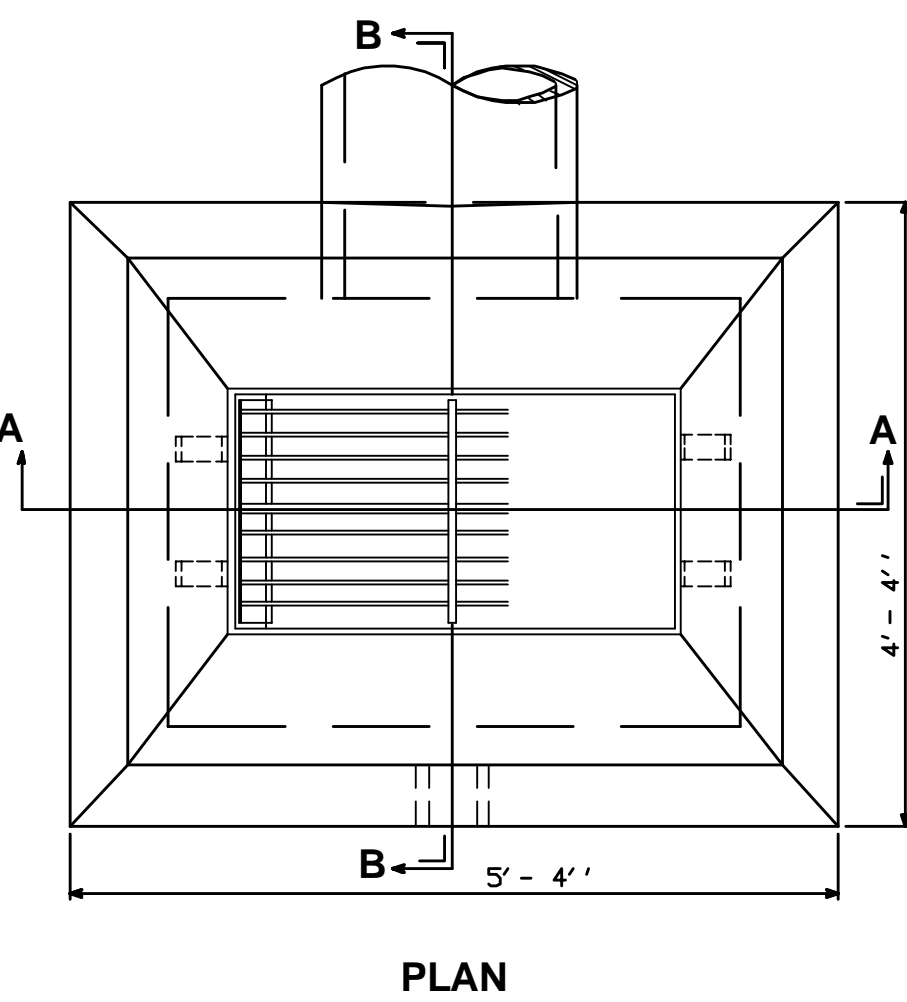


SECTION A-A

SECTION B-B

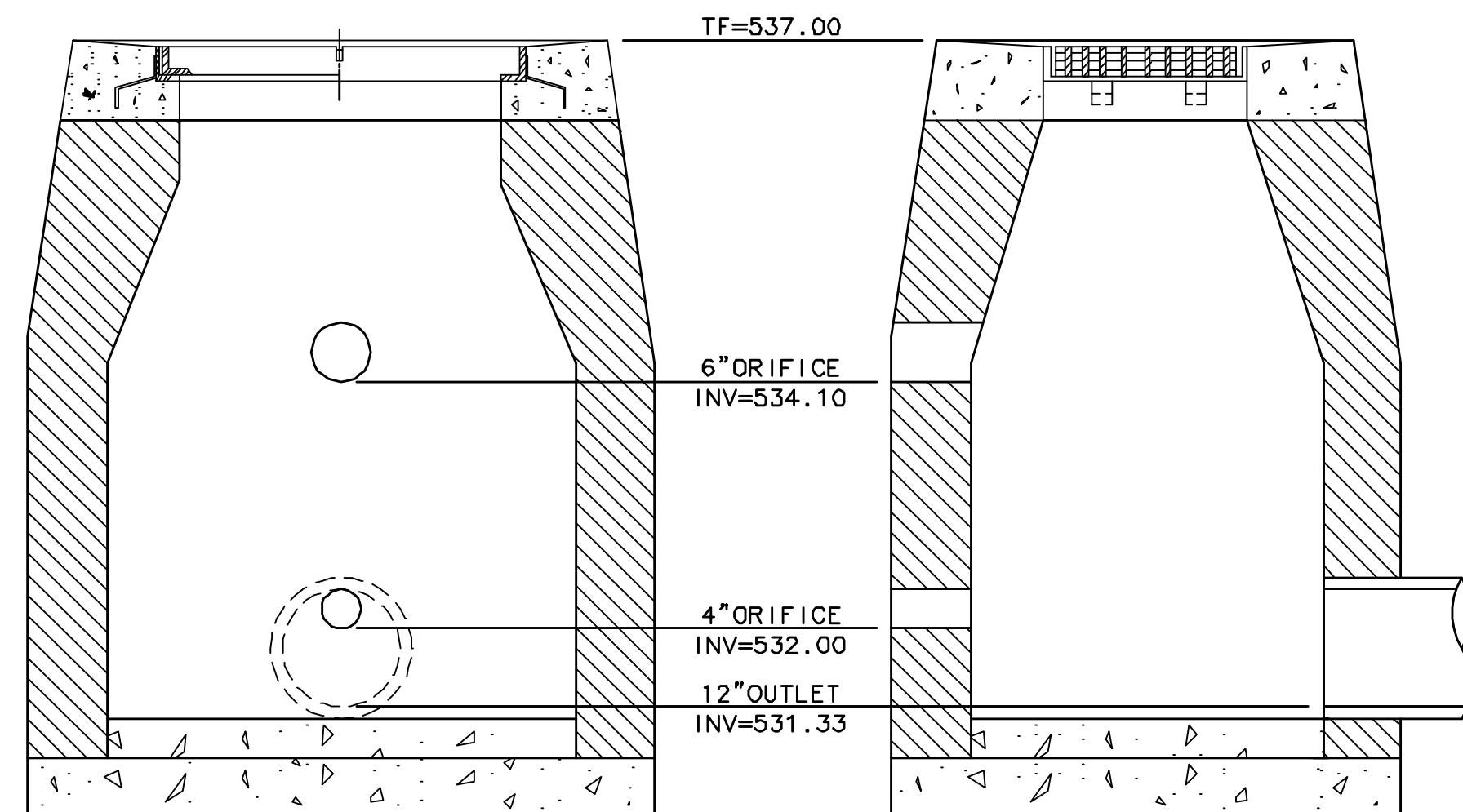
TYPE "C-L" CATCH BASIN

NTS



PLAN

- NOTE:**
1. OUTLET STRUCTURE SHALL CONFORM TO STANDARDS OF TYPE "C-L" CATCH BASIN.
 2. ALL DRIFICES SHALL BE CORE-BORED INTO CONC WALL OF OUTLET STRUCTURE.

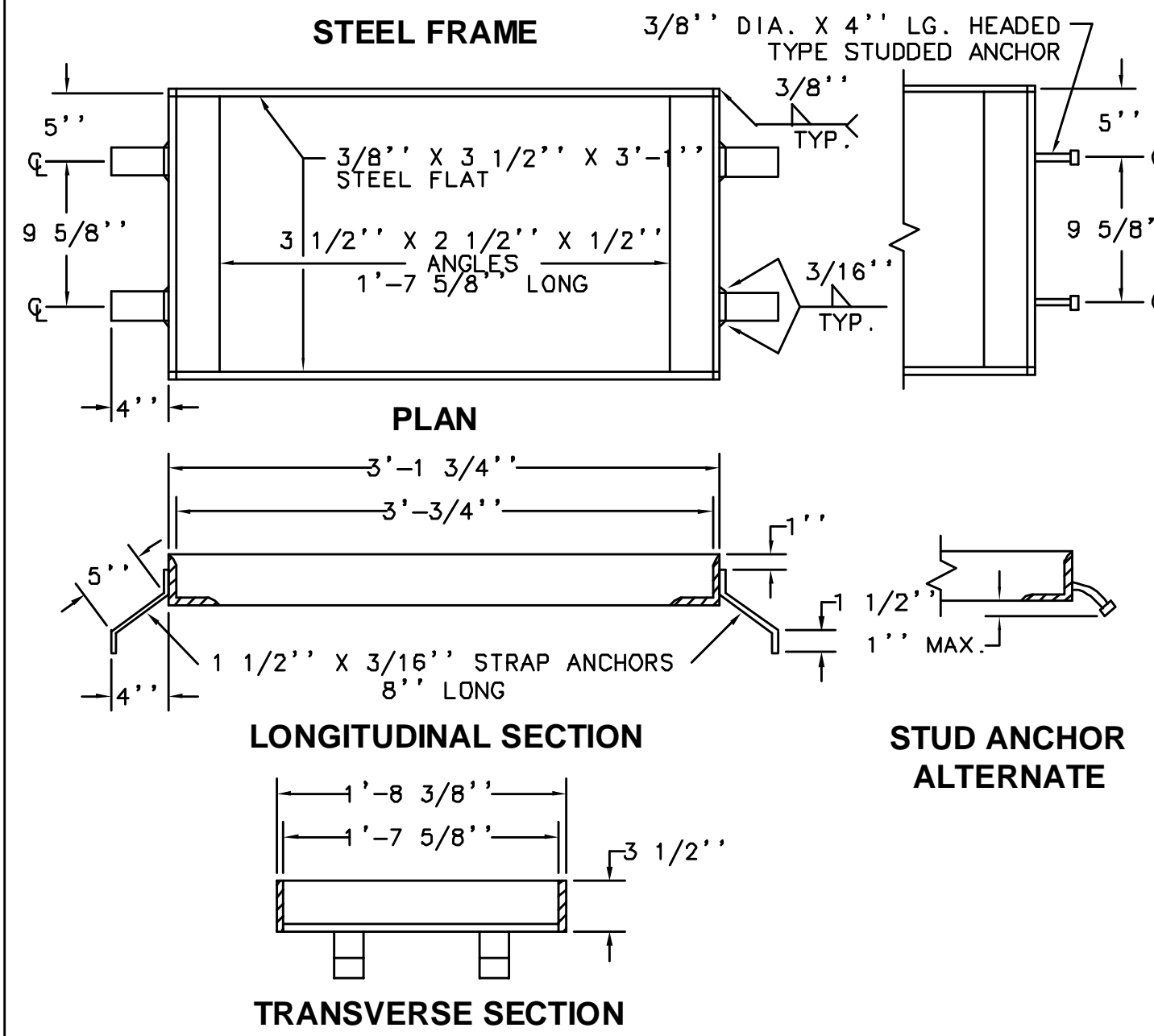


SECTION A-A

SECTION B-B

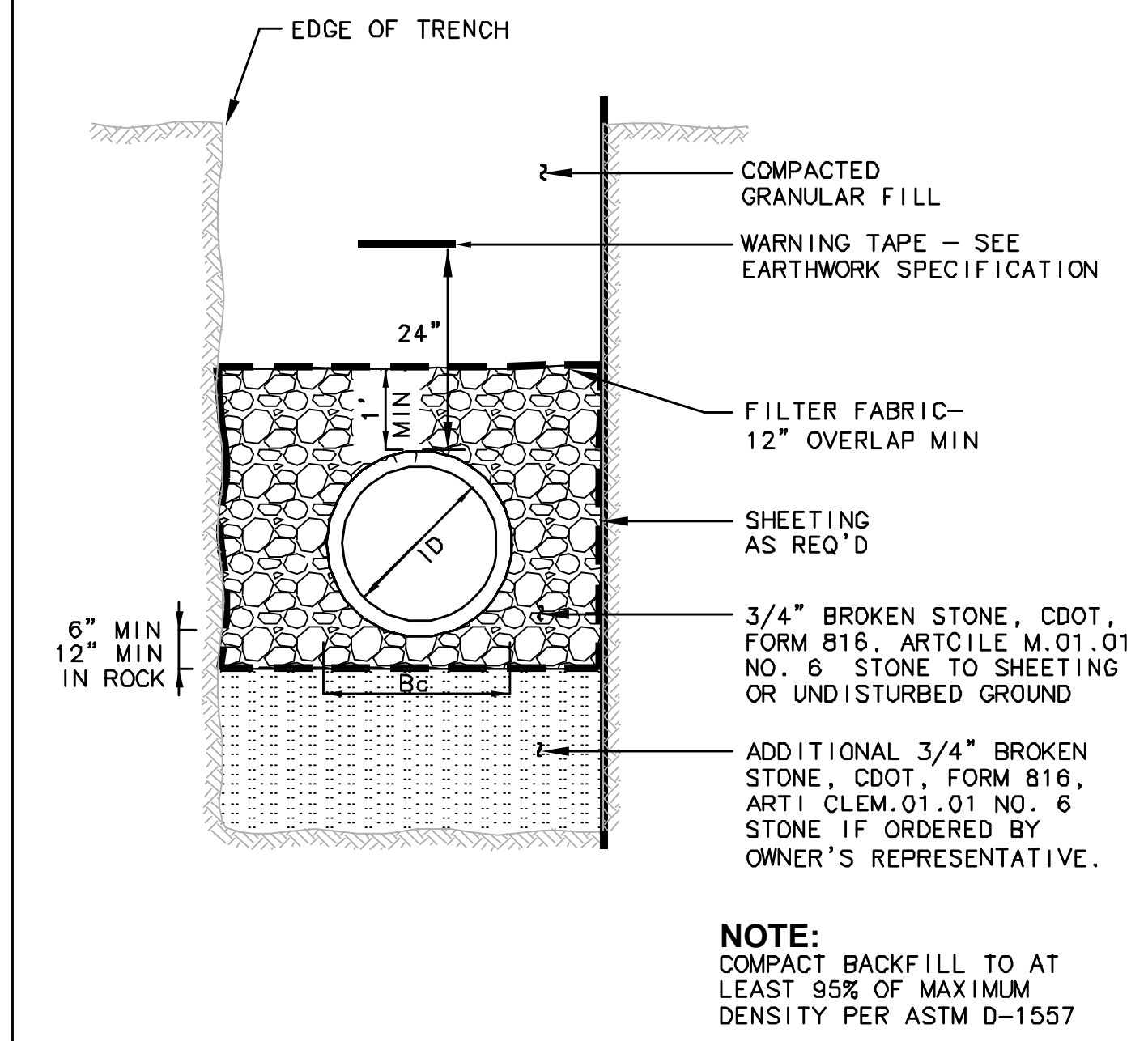
SEDIMENT BASIN OUTLET STRUCTURE

NTS



TYPE "C-L" CATCH BASIN FRAME

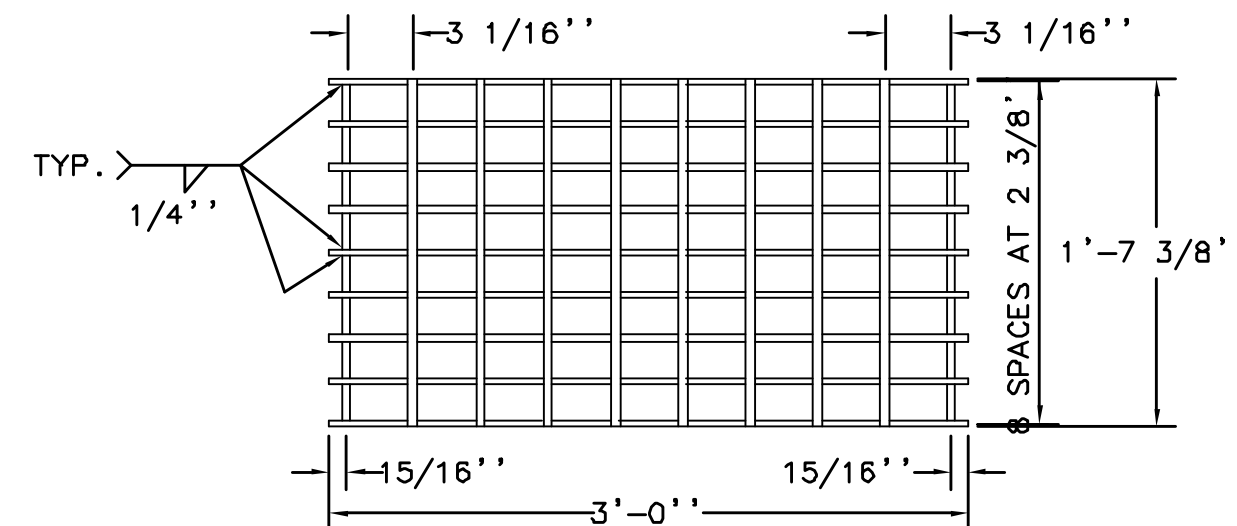
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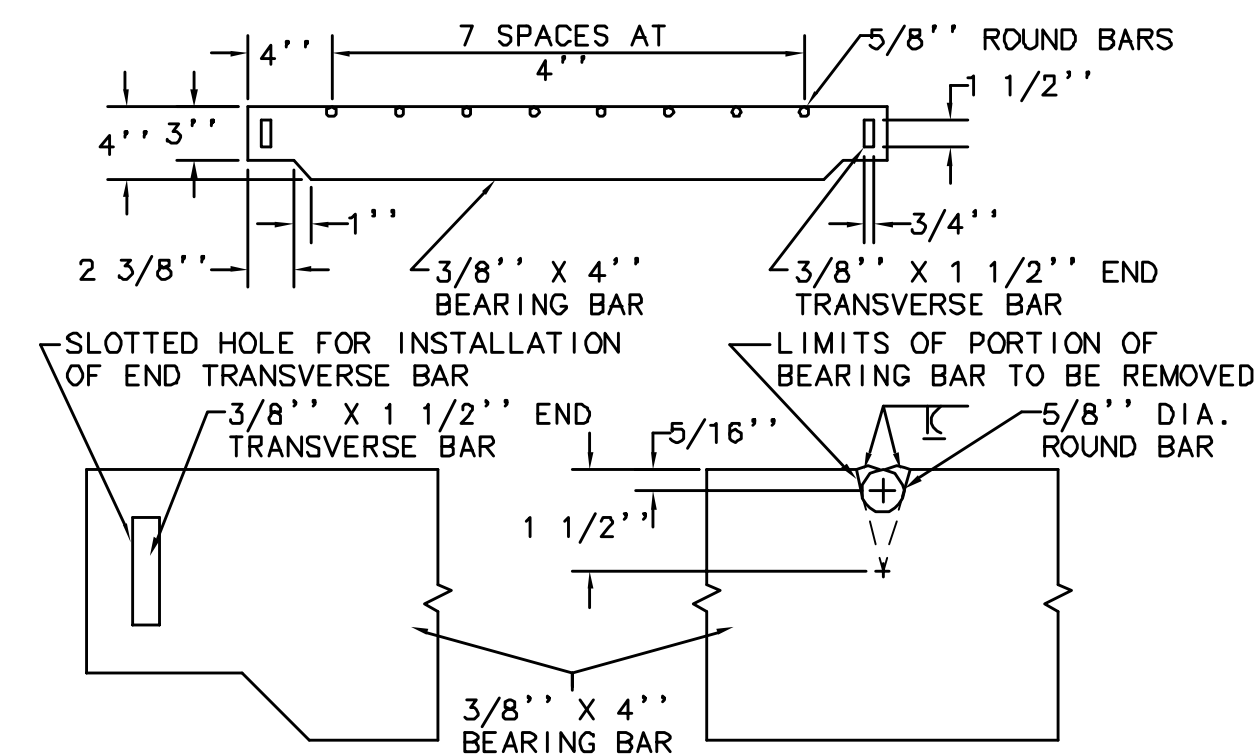
CPP STORM SEWER TRENCH SECTION

NTS

- NOTE:**
- COMPACT BACKFILL TO AT LEAST 95% OF MAXIMUM DENSITY PER ASTM D-1557



TYPE A



TYPE "C-L" CATCH BASIN GRATE

NTS

- NOTES:**
1. CATCH BASIN GRATE SHALL CONFORM TO CONNECTICUT D.O.T. STANDARD DRAWING #507K TYPE-A.
 2. STEEL FRAMES AND GRATES SHALL BE GALVANIZED IN ACCORDANCE WITH M.06.03 2 OF D.O.T. FORM 814A.
 3. ALL BARS SHALL BE WELDED AT ALL INTERSECTIONS.
 4. ALL METAL UNITS SUBJECT TO MANUFACTURING TOLERANCES.
 5. ONLY LOW HYDROGEN ELECTRODES SHALL BE USED.
 6. DIMENSIONAL TOLERANCES MAY BE ±1/16".
 7. WELDING WILL BE PERFORMED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION.

URS
URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

Bolton PZC
Special Permit / Site Plan
Approved November 12, 2008
5-Year Date for Completion
of Improvements:
September 16, 2015

Chairman/Secretary Date Signed

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REVISIONS

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HATHAWAY
SAND & GRAVEL, LLC
EARTH EXCAVATION
PLANS
TOWN OF
BOLTON, CONNECTICUT

PROJECT NO: 36928477.00

DRAWN BY: KMM

CHECKED BY: RGT

DATE: JANUARY 19, 2007

CADD FILE: C13.DWG

**SITE UTILITY
& DETENTION BASIN
DETAILS**

C13

SHEET 27 OF 31

SITE GRADING & SOIL EROSION & SEDIMENTATION CONTROL PLAN NOTES

1. IMPLEMENTATION OF ALL SEDIMENTATION AND EROSION CONTROL MEASURES SHALL CONFORM TO THE CONTRACT DRAWINGS AND SPECIFICATIONS OR TO THE CTDEP "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL," REVISED 2002, WHICHEVER IS MORE STRINGENT.
2. CONSTRUCTION ENTRANCES, PERIMETER SEDIMENTATION BARRIERS AND PROTECTION AT EXISTING INLETS SHALL BE INSTALLED PRIOR TO ANY EXCAVATION (INCLUDING THE REMOVAL OF STUMPS).
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15. SEE SITE EXCAVATION & STAGING PLANS, SHEETS CB, CB.1, CB.2 AND CB.3.

URS
URS CORPORATION AES
 500 ENTERPRISE DRIVE
 ROCKY HILL, CT 06067
 1-(860)-529-8882

Bolton PZC
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HATHAWAY
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 EARTH EXCAVATION
 PLANS
 TOWN OF
 BOLTON, CONNECTICUT

PROJECT NO: 36928477.00

DRAWN BY: KMM

CHECKED BY: RGT

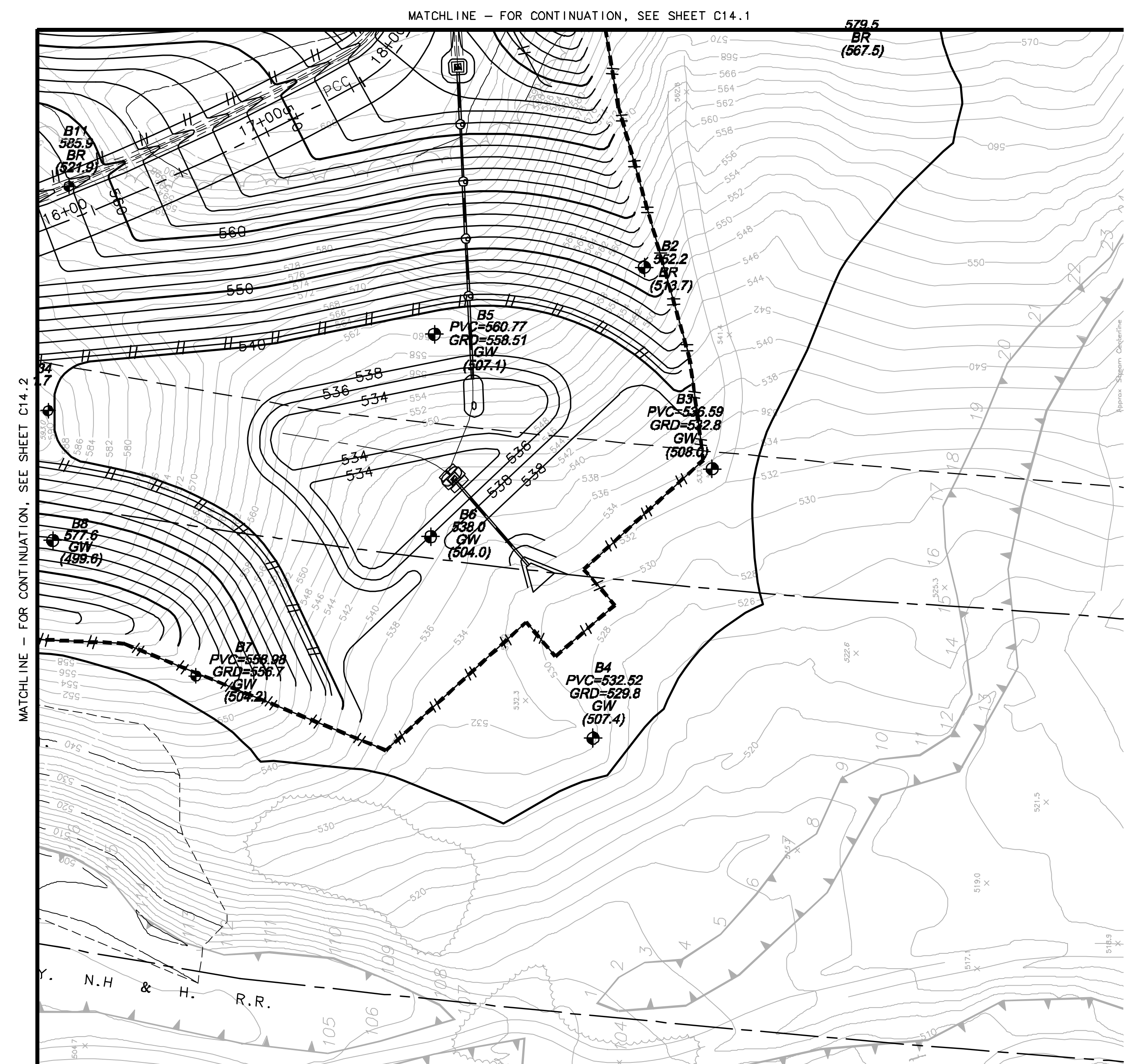
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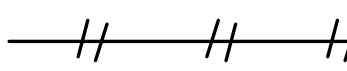
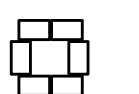
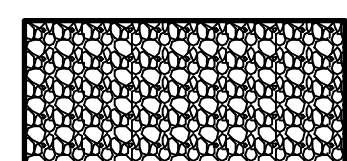
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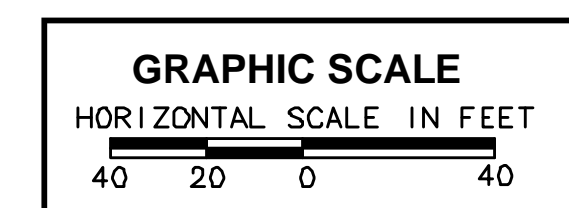
**SITE GRADING
 PART PLAN I**

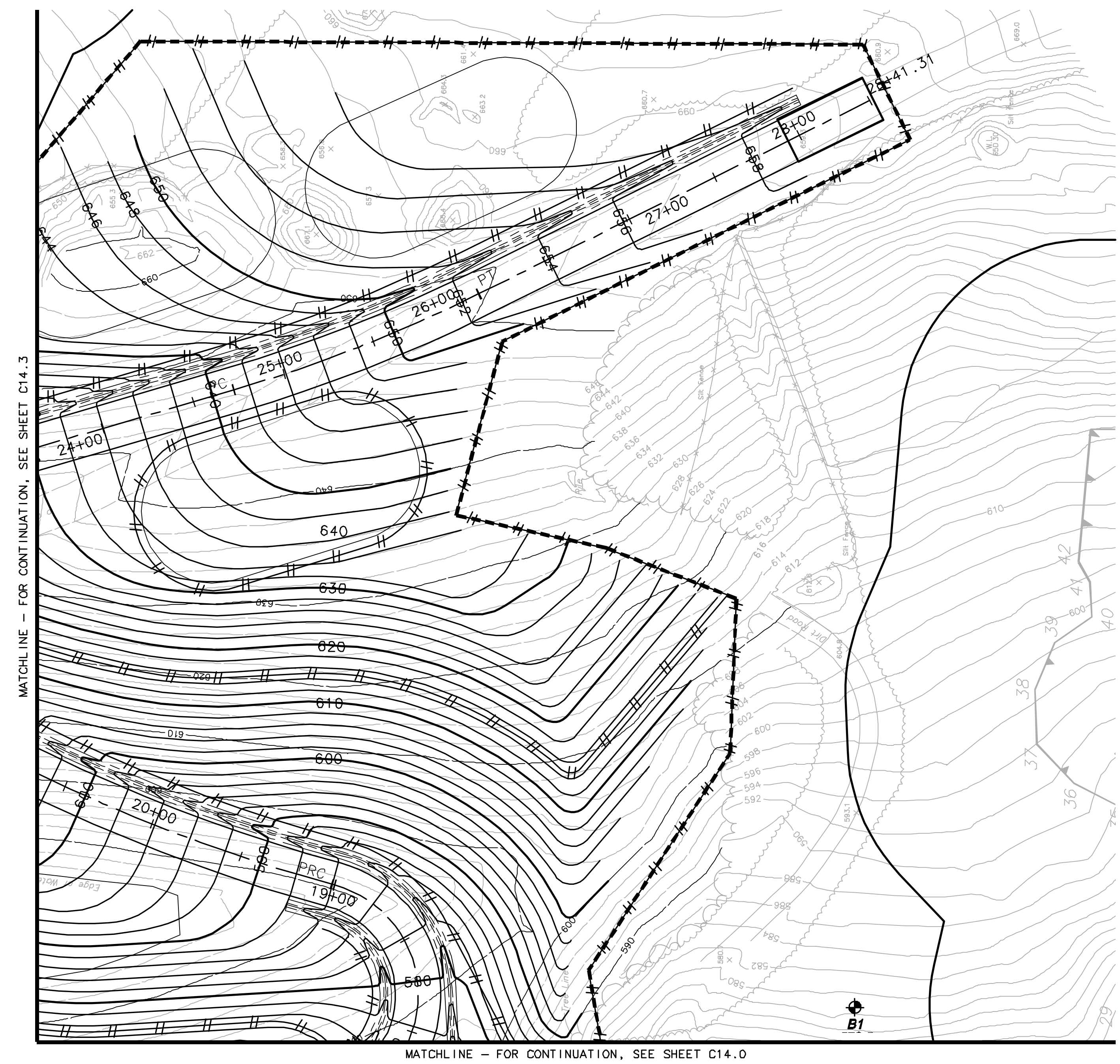
C14.0

SHEET 28 OF 31



-  SEDIMENTATION BARRIER
SILT FENCE/HAYBALES
-  SEDIMENTATION CONTROL
INLET PROTECTION
-  SEDIMENTATION CONTROL
CONSTRUCTION ENTRANCE



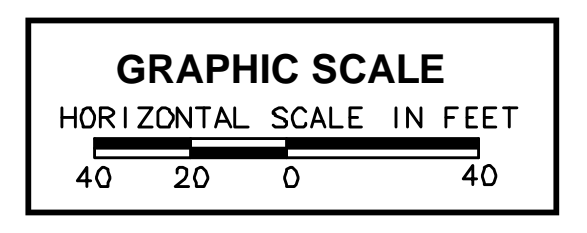
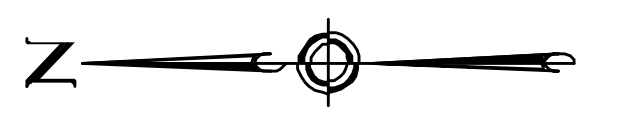


SITE GRADING & SOIL EROSION & SEDIMENTATION CONTROL PLAN NOTES

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SITE GRADING & SOIL EROSION & SEDIMENTATION CONTROL LEGEND

- SEDIMENTATION BARRIER
SILT FENCE/HAYBALES
- SEDIMENTATION CONTROL
INLET PROTECTION
- SEDIMENTATION CONTROL
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EARTH EXCAVATION PLANS
 TOWN OF BOLTON, CONNECTICUT

PROJECT NO: 36928477.00

DRAWN BY: KMM

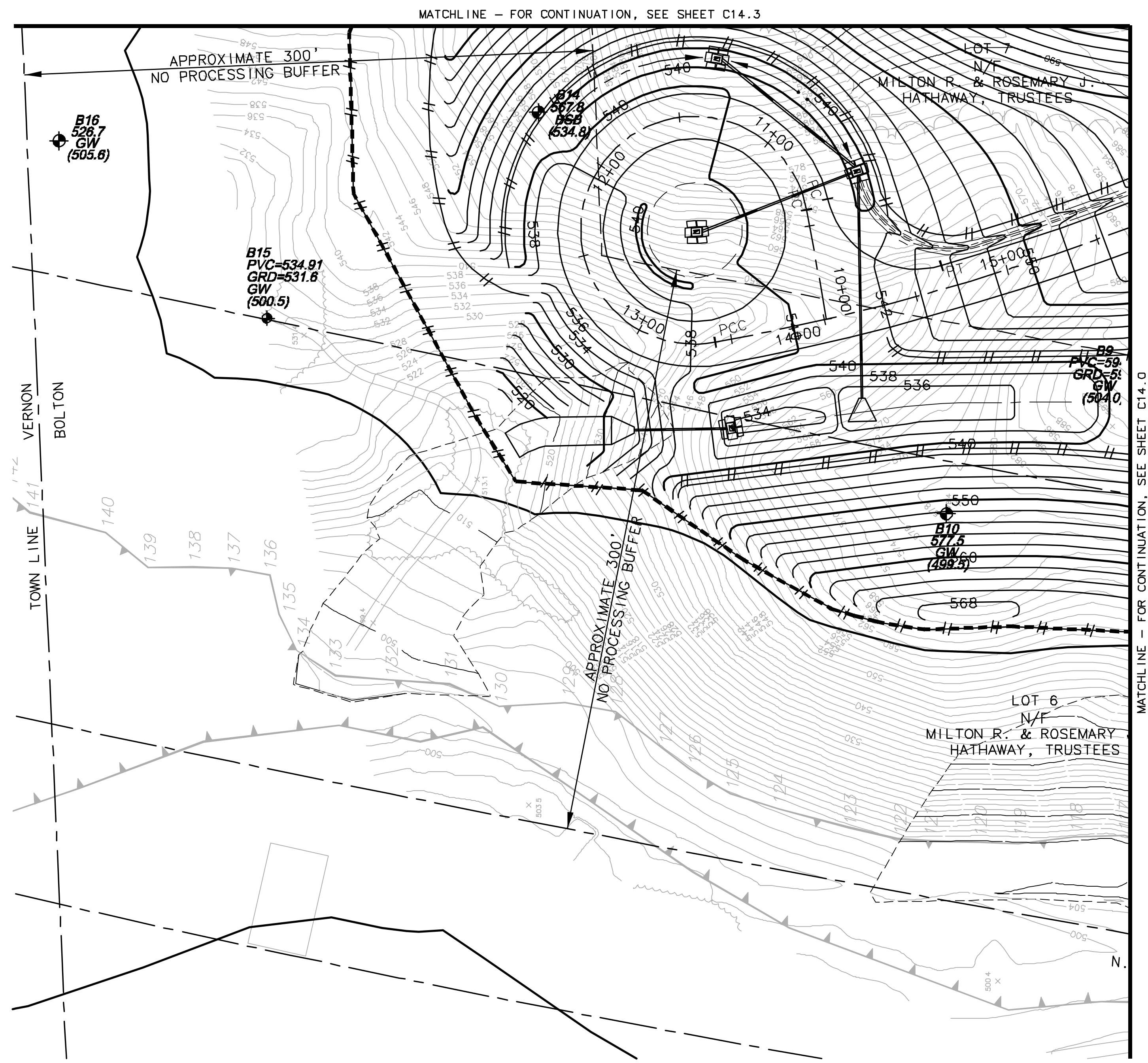
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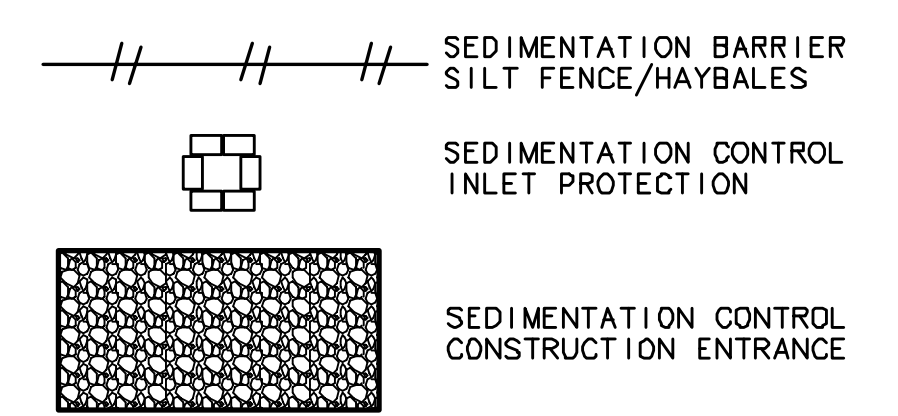
SITE GRADING PART PLAN II

C14.1



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SITE GRADING & SOIL EROSION & SEDIMENTATION CONTROL LEGEND



Bolton PZC
Special Permit / Site Plan
Approved November 12, 2008
5-Year Date for Completion
of Improvements:
September 16, 2015

Chairman/Secretary _____ Date Signed _____

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HATHAWAY
SAND & GRAVEL, LLC
EARTH EXCAVATION
PLANS
TOWN OF
BOLTON, CONNECTICUT

PROJECT NO: 36928477.00

DRAWN BY: KMM

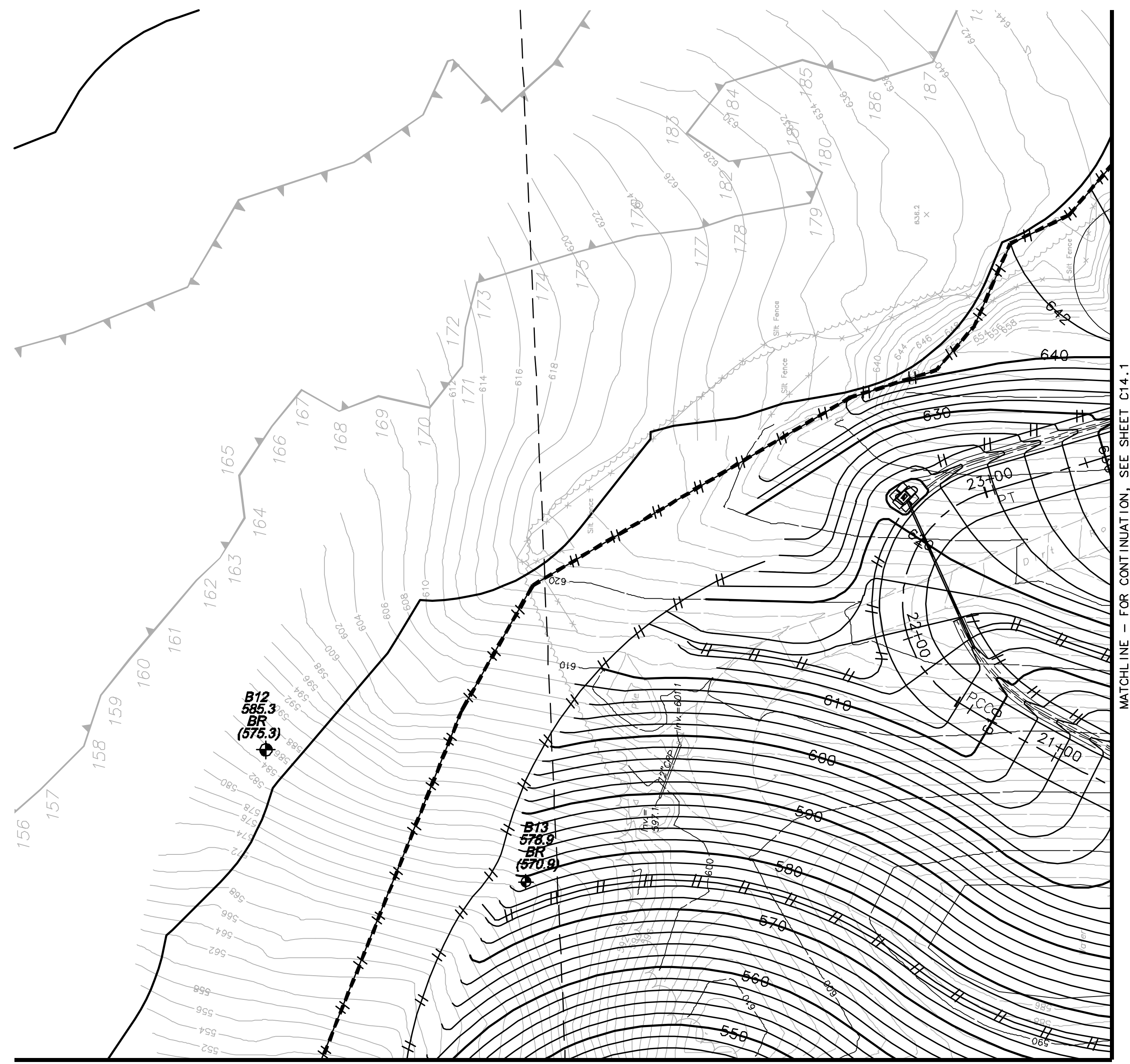
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DATE: JANUARY 19, 2007

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**SITE GRADING
PART PLAN III**

C14.2



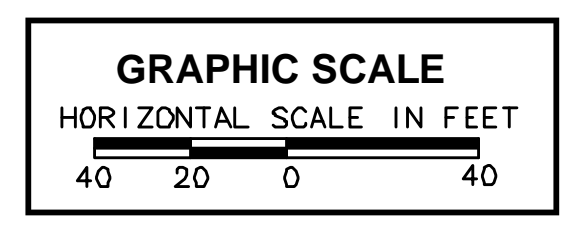
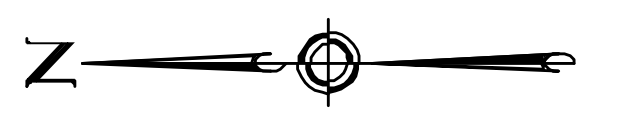
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DRAWN BY: CJC

CHECKED BY: CJC

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CADD FILE: C6.DWG

**SITE GRADING
PART PLAN IV**

C14.3
SHEET 31 OF 31