

Site Plans

Proposed Self-Storage Facility

State Road Whately, MA Map 5 Parcel 29

AS PREPARED FOR

**Todd Cellura
Sovereign Builders**

**135 Southampton Rd
Westhampton, MA 01027**



BY



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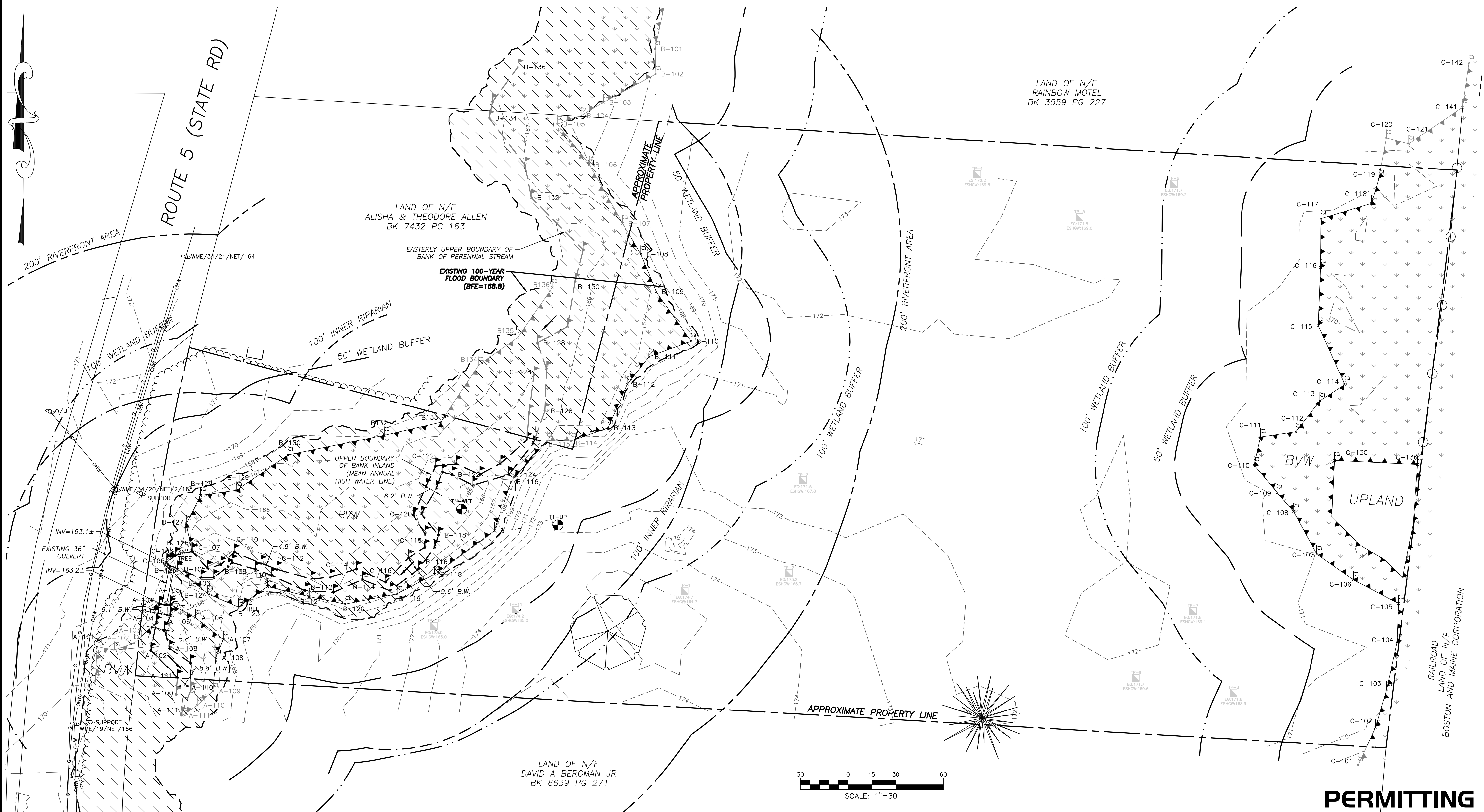
NOTES

1. THE RECORD OWNER OF THE SUBJECT PARCEL IS SHARYN HOLICH. SEE HAMPDEN COUNTY REGISTRY OF DEEDS BOOK 6989 PAGE 191.
2. THE PROPERTY LINES SHOWN HEREON ARE BASED UPON A PROPERTY BOUNDARY PLAN PREPARED BY HAROLD L. EATON AND ASSOCIATES, INC. TITLED "PLAN OF LAND IN WHATLEY MASSACHUSETTS PREPARED FOR PETER W. ROGALESKI" DATED FEBRUARY 12, 1988 RECORDED IN THE HAMPSHIRE COUNTY REGISTRY OF DEEDS PLAN BOOK 68 PAGE 31.
3. THE EXISTING BUILDING(S) SHOWN HEREON ARE BASED ON AN APPROXIMATE MEASUREMENT OF THE OUTSIDE PERIMETER OF THE EXISTING STRUCTURES. THE ACTUAL LOCATION OF THE EXISTING BUILDING WALLS AND CORNERS SHOULD BE VERIFIED IN THE FIELD PRIOR TO ANY CONSTRUCTION WORK THAT WOULD ABUT OR TAKE PLACE ADJACENT TO THE EXISTING BUILDING(S). IF THE PLAN HEREON IS USED FOR CONSTRUCTION LAYOUT PURPOSES, THE PARTIES CONDUCTING LAYOUT SHALL CONTACT R. LEVESQUE ASSOCIATES INC. PRIOR TO SAID LAYOUT TO DETERMINE PROPER CONTROL. PLEASE NOTE WHILE THE BUILDING(S) ARE SHOWN TO BE SQUARE, IT SHOULD NOT BE ASSUMED THAT THE WALLS ARE SQUARE OR PLUMB. R. LEVESQUE ASSOCIATES TAKES NO RESPONSIBILITY FOR THIRD PARTY LAYOUT OF THE PLAN SHOWN HEREON.
4. THIS PLAN HAS BEEN PREPARED FOR SITE PLANNING PURPOSES AND SHALL NOT BE USED FOR THE CONVEYANCE OF LAND OR FOR ANY OTHER USE.
5. SUBJECT PARCEL CONTAINS 5.486 ACRES PER A PLAN RECORDED IN THE HAMPSHIRE COUNTY REGISTRY OF DEEDS PLAN BOOK 68 PAGE 31.
6. THE SUBJECT PROPERTIES SHOWN HEREON MAY BE SUBJECT TO RIGHTS AND EASEMENTS AS CONTAINED IN THE VARIOUS DEEDS OF RECORD DESCRIBING SAID PROPERTIES. THE LOCATION AND EXTENT OF ANY SUCH RIGHTS AND EASEMENTS IS NOT THE SUBJECT OF THIS PLAN.

7. WETLAND RESOURCE AREAS HAVE BEEN DELINEATED BY R LEVESQUE ASSOCIATES, INC. IN AUGUST 2020 AND DETERMINED BY THE WHATLEY CONSERVATION COMMISSION ON DECEMBER 28, 2020.
8. THE EXISTING CONDITIONS INFORMATION SHOWN IS BASED UPON A TOPOGRAPHIC SURVEY PERFORMED BY R LEVESQUE ASSOCIATES, INC. IN OCTOBER 2020.
9. THE UNDERGROUND UTILITIES SHOWN HEREON HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION. R LEVESQUE ASSOCIATES, INC. MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN HEREON COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. R LEVESQUE ASSOCIATES, INC. FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN HERE ARE IN THE EXACT LOCATION INDICATED, ALTHOUGH THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM AVAILABLE INFORMATION.
10. ADJACENT PROPERTY LINES AND ABUTTERS SHOWN HEREON ARE REFERENCED FROM THE TOWN OF WHATLEY GIS.
11. SUBJECT PARCEL IS ZONED COMMERCIAL ACCORDING TO THE WHATLEY ZONING MAP.
12. A PORTION OF THE SUBJECT PARCEL ADJACENT TO THE STREAM IS LOCATED WITHIN A SPECIAL FLOOD ZONE AREA ACCORDING TO FLOOD INSURANCE RATE MAP NUMBER 2501320007C - EFFECTIVE DATE: 9/14/1979. A 100-YEAR FLOOD ELEVATION HAS NOT BEEN PROVIDED BY FEMA. A FLOODPLAIN ANALYSIS BY RLA HAS DETERMINED THE 100-YEAR BASE FLOOD ELEVATION FOR THE SITE TO BE 168.8 (NAVD88) UNDER EXISTING CONDITIONS. SEE FLOODPLAIN ANALYSIS MEMO BY RLA FOR ADDITIONAL DETAIL.
13. THE SUBJECT PROPERTY IS NOT LOCATED WITHIN NATURAL HERITAGE & ENDANGERED SPECIES PROGRAM (NHESP) JURISDICTION.
14. BANKFULL WIDTH (B.W.) MEASUREMENTS ARE SHOWN AT 6 LOCATIONS REPRESENTATIVE OF CONDITIONS WHERE THE STRUCTURE WILL BE LOCATED. THE AVERAGE BANKFULL WIDTH OF THE STREAM IS 7.2'.

SYMBOL & LINE LEGEND

	IRON PIPE FOUND
	UTILITY POLE
	EXISTING HYDRANT
	SOIL BORING LOCATION
	WETLAND FLAG LOCATION
	M.A.H.W. STREAM FLAG LOCATION
	TREE LINE
	EXISTING CONTOUR
	WETLAND BOUNDARY
	FENCE LINE
	EXISTING OVERHEAD WIRES



EXISTING CONDITIONS PLAN

State Road
Whatley, MA
Map 5 Parcel 29



PREPARED FOR:
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Westhampton, MA 01027

ISSUANCE DATE:	February 23, 2021
REVISIONS:	DATE:
A. BLSF ADDED	4/29/21
B. BANKFULL WIDTH ADDED	7/27/21

DRAFTED BY: R.N. & C.K.
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SCALE: AS NOTED
RLA PROJ. NUMBER: 200912

DRAWING#	REV.
EX-1	B

PERMITTING

S:\Projects\2020\200912 - Cellura - State Road, Whatley\Civil 3D\200912 - EXIST.dwg

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SYMBOL & LINE LEGEND

Table with 2 columns: Symbol and Description. Includes symbols for iron pipe found, concrete bound found, computed point, existing sign, existing mailbox, utility pole, guy anchor, existing electric manhole, etc.

ABBREVIATIONS

Table with 2 columns: Abbreviation and Full Name. Includes A.F.F. - ABOVE FINISHED FLOOR, A.F.S. - ABOVE FINISHED SLAB, APPROX. - APPROXIMATE, BLDG. - BUILDING, etc.

EROSION & SEDIMENT CONTROL NOTES

- MANAGEMENT STRATEGIES
1. CONSTRUCTION TRAFFIC SHALL BE LIMITED TO THE CONSTRUCTION ENTRANCE.
2. CONSTRUCTION SEQUENCE SHALL BE PHASED TO AVOID LEAVING LARGE AREAS EXPOSED FOR LONG PERIODS OF TIME.

- VEGETATIVE CONTROL PRACTICES
1. TOPSOIL STOCKPILING: TOPSOIL SHALL BE STRIPPED FROM AREAS TO BE DISTURBED AND STOCKPILED FOR LATER USE.
2. TEMPORARY SEEDING: THE TEMPORARY SEDIMENT BASIN, TOPSOIL STOCKPILE AND ROUGH GRADED AREAS SHALL BE SEEDED WITH WINTER RYE AT A RATE OF 30 LBS. PER ACRE

NONSTRUCTURAL CONTROL PRACTICES
1. SCARIFICATION: EXPOSED SLOPES EXCEEDING 4:1 SHALL BE SCARIFIED AT RIGHT ANGLES TO THE SLOPE...

- STRUCTURAL CONTROL PRACTICES
1. RIP-RAP OUTLET PROTECTION: RIP-RAP SHALL BE PROVIDED AT ALL PIPE OUTLETS. MATERIAL SHALL BE HARD, DURABLE FIELD OR QUARRY STONE WHICH IS ANGULAR AND RESISTS BREAKING DOWN WHEN EXPOSED TO WATER OR WEATHERING.

SILT FENCE INSTALLATION NOTES

- 1. THIS SEDIMENT BARRIER UTILIZES MIRAFI ENVIROFENCE (100X) OR EQUAL. IT IS DESIGNED FOR SITUATIONS IN WHICH ONLY SHEET OR OVERLAND FLOWS ARE EXPECTED.
2. THE HEIGHT OF THE BARRIER SHALL NOT EXCEED 36 INCHES (HIGHER BARRIERS MAY IMPOUND VOLUMES OF WATER SUFFICIENT TO CAUSE FAILURE OF THE STRUCTURE).

HAY BALE INSTALLATION & MAINTENANCE (AS REQ'D)

- 1. HAY BALES SHALL BE PLACED IN A SINGLE ROW, LENGTHWISE ON THE CONTOUR, WITH ENDS OF ADJACENT BALES TIGHTLY ABUTTING ONE ANOTHER.
2. ALL BALES SHALL BE EITHER WIRE BOUND OR STRING TIES. BALES SHALL BE INSTALLED SO THAT BINDINGS ARE ORIENTED AROUND THE SIDES RATHER THAN ALONG THE TOPS AND BOTTOMS OF THE BALES TO PREVENT DETERIORATION OF THE BINDINGS.

SITE PREP

- 1. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATION, INCLUDING BUT NOT LIMITED TO, ALL UTILITIES, STORM DRAINAGE, SIGNS, TRAFFIC SIGNALS & POLES, ETC. AS REQUIRED.
2. CONTRACTOR SHALL ERCT AND MAINTAIN SAFETY BARRICADES AND POST PROPER NOTICES PRIOR TO THE COMMENCEMENT OF WORK.

LANDSCAPE NOTES

- 1. THE CONTRACTOR SHALL VERIFY FINAL SELECTION OF PLANT MATERIALS WITH THE LANDSCAPE ARCHITECT AND OWNER PRIOR TO INSTALLATION.
2. NO PLANT MATERIAL WILL BE ACCEPTED WHICH DISPLAYS MAJOR IRREGULARITIES OR DAMAGE. THE OWNER/LANDSCAPE ARCHITECT RETAINS THE RIGHT TO REJECT ANY PLANT MATERIAL DEEMED UNFIT.

Table with 4 columns: NAME OF SEED, % BY WEIGHT IN MIXTURE, MIN. % PURITY, MIN. GERMINATION. Lists seeds like POS PRETENSES, BARON BLUEGRASS, FESTUCA RUBRA, etc.



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NOTES, SYMBOL & LINE LEGEND AND ABBREVIATIONS State Road Whately, MA Map 5 Parcel 29



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Table with 2 columns: ISSUANCE DATE, REVISIONS. Includes ISSUANCE DATE: February 23, 2021.

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Table with 2 columns: SCALE, RLA PROJ. NUMBER, DRAWING#, REV. Includes SCALE: AS NOTED, RLA PROJ. NUMBER: 200912.

PERMITTING C-1

GENERAL CONSTRUCTION NOTES

- 1. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR OR HIS AUTHORIZED REPRESENTATIVE SHALL CONVENE A PRE-CONSTRUCTION CONFERENCE BETWEEN THE CITY/TOWN REPRESENTATIVES, CONSULTING ENGINEER/LANDSCAPE ARCHITECT, UTILITY COMPANY REPRESENTATIVES, AND ANY OTHER AFFECTED PARTIES.
2. THE OWNER, R LEVESQUE ASSOCIATES, INC., AND PAUL S. SMITH LAND SURVEYING AND/OR THEIR REPRESENTATIVES, IN PREPARING THESE PLANS HAVE ATTEMPTED TO LOCATE ALL EXISTING UTILITIES IN THE PROJECT AREA. HOWEVER, THERE MAY BE UTILITIES THAT WERE NOT OR COULD NOT BE LOCATED. UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE IN APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL CALL ALL APPROPRIATE UTILITY COMPANIES FOR LOCATIONS OF THEIR UTILITIES AT LEAST 48 HOURS BEFORE COMMENCING EXCAVATION. IN THE EVENT THAT A UTILITY IS SITUATED SUCH THAT CONSTRUCTION CANNOT PROCEED AS SHOWN ON THE PLANS, THE PROJECT ENGINEER/LANDSCAPE ARCHITECT AND OWNER SHALL BE NOTIFIED IMMEDIATELY.
3. THE SITE CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH OCCUR DUE TO HIS FAILURE TO LOCATE AND PRESERVE ANY AND ALL UTILITIES.
4. ALL FILL WORK REQUIRED TO BRING THE PROPOSED ROADWAY UP TO SUB-GRADE LEVEL SHALL CONFORM TO MHD SPECIFICATIONS SECTION 150.
5. CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND BE CONSTRUCTED TO SAME.
6. ALL WORK IN THE CITY/TOWN RIGHT-OF-WAY AND EASEMENTS SHALL BE IN ACCORDANCE WITH THE CITY/TOWN SPECIFICATIONS AND MASSACHUSETTS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
7. THE CONTRACTOR SHALL GIVE THE CITY/TOWN A MINIMUM OF 48 HOURS NOTICE BEFORE BEGINNING EACH PHASE OF CONSTRUCTION.
8. CONTRACTOR IS RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY EXISTING IMPROVEMENTS DURING CONSTRUCTION, SUCH AS, BUT NOT LIMITED TO, DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURB, ETC. REPAIRS SHALL BE EQUAL TO OR BETTER THAN EXISTING CONDITIONS.
9. ALL WORK SHALL BE PERFORMED IN CONFORMANCE WITH THE CONDITIONS OF APPROVAL OUTLINED IN ALL STATE AND LOCAL PERMITS. COPIES OF THE CONDITIONS ARE INCLUDED WITHIN THE PROJECTS TECHNICAL SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING THIS INFORMATION PRIOR TO CONSTRUCTION AND CONFORMING TO THE CONDITIONS AS REQUIRED DURING CONSTRUCTION.
10. THE CONTRACTOR SHALL MAINTAIN THE JOB CLEAR OF TRASH AND DEBRIS. THE WORK AREAS ARE TO BE PICKED UP AT THE END OF EACH WORK DAY.
11. ANY TEMPORARY FACILITIES FOR THE STORAGE OR PROTECTION OF TOOLS, EQUIPMENT OR MATERIALS SHALL CONFORM TO LOCAL REGULATIONS AND SHALL BE THE GENERAL CONTRACTORS RESPONSIBILITY. THESE DOCUMENTS DO NOT INCLUDE THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY, SAFETY, CARE OF ADJACENT PROPERTIES DURING CONSTRUCTION, AND COMPLIANCE WITH STATE AND FEDERAL REGULATIONS REGARDING SAFETY SHALL BE THE GENERAL CONTRACTORS RESPONSIBILITY.
12. THE GENERAL CONTRACTOR AND HIS SUBCONTRACTORS SHALL VISIT THE SITE AND BECOME FAMILIAR WITH ALL CONDITIONS PRIOR TO SUBMITTING HIS PROPOSAL. NO EXTRAS DUE TO UNFAMILIARITY WITH THE EXISTING SITE OR WORKING CONDITIONS WILL BE ALLOWED.
13. CONTRACTOR SHALL BE REQUIRED TO PERFORM FINAL CLEANUP CONSISTING OF CLEANING THE PROPOSED DRAINAGE AND SEWER SYSTEMS OF ALL DEBRIS PRIOR TO THE ACCEPTANCE BY THE OWNER. ADDITIONALLY, THE PROPOSED ROADWAY SHALL BE CLEANED AND SWEEPED BY THE CONTRACTOR PRIOR TO ACCEPTANCE.
14. ALL EXCAVATION SHALL COMPLY WITH OSHA'S LATEST STANDARDS. ALL REQUIREMENTS OF OSHA'S EXCAVATION STANDARDS SHALL BE PROVIDED BY THE CONTRACTOR INCLUDING, BUT NOT LIMITED TO, THE PROVISION FOR A COMPETENT PERSON ON SITE MANAGER AND ANY REQUIRED DOCUMENTATION THAT MAY REQUIRE CERTIFICATION BY A PROFESSIONAL ENGINEER. THE OWNER, THROUGH ITS ENGINEER, SHALL EXPRESSLY NOT PROVIDE ANY OF THE ABOVE REQUIREMENTS DESIGNATED BY OSHA'S EXCAVATION STANDARD.
15. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE COST OF LAYING OUT ALL ITEMS OF THE WORK BASED ON CERTAIN HORIZONTAL CONTROL AND BENCHMARK SUPPLIED BY THE SURVEYOR OF RECORD. ANY DISCREPANCIES SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER.
16. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR, EQUIPMENT, PERMITS AND APPURTENANCES NECESSARY TO PROVIDE A COMPLETE PROJECT AS INDICATED ON THE PLANS AND IN THESE SPECIFICATIONS.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR A THOROUGH SITE EXAMINATION IN ORDER TO PREPARE SITE FOR CONSTRUCTION.
18. ANY AND ALL DEMOLISHED TREES, STRUCTURES AND OTHER RUBBLE MATERIAL PERTAINING TO THIS PROJECT SHALL BE DISPOSED OF BY THE CONTRACTOR OFF-SITE AT HIS EXPENSE IN ACCORDANCE WITH ALL OF THE CITY/TOWN ORDINANCES AND ALL APPLICABLE STATE AND FEDERAL ENVIRONMENTAL REGULATIONS.
19. ALL PAVEMENT DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED IN ACCORDANCE WITH THE SPECIFICATIONS AND AS SHOWN ON THE DRAWINGS.
20. ALL STREET EXCAVATIONS SHALL BE COMPLETELY CLOSED AT THE END OF EACH WORKING DAY BY BACKFILLING OR COVERING WITH STEEL PLATES.
21. ALL MATERIALS AND METHODS ARE TO COMPLY WITH THE CITY/TOWN DPW STANDARDS OR MASSACHUSETTS DEPARTMENT OF TRANSPORTATION (MASSDOT) (WHERE APPLICABLE), UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
22. PERMITS WILL BE REQUIRED BY CONTRACTOR WHEN WORKING WITHIN OR OCCUPYING PUBLIC WAY. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED WORK PERMITS AND MAINTAINING A COPY OF ALL PERMITS IN A THREE RING BINDER OR PROJECT BOOK AND ON-SITE AT ALL TIMES.
23. BACKFILL WILL BE PLACED IN SUCCESSIVE LAYERS NOT MORE THAN TWELVE INCHES IN THICKNESS AND SHALL BE COMPACTED TO 95% OF MAXIMUM DRY DENSITY DETERMINED BY STANDARD PROCTOR TEST (ASTM 698) FOR ALL APPLICABLE TYPES OF BACKFILL MATERIAL. NO FROZEN MATERIAL SHALL BE USED AS BACKFILL. IF, IN THE OPINION OF THE ENGINEER OR THE DPW, THE EXCAVATED MATERIAL IS UNSUITABLE, THE ENTIRE MATERIAL FOR BACKFILLING SHALL CONSIST OF APPROVED GRAVEL OR APPROVED BORROW, AS DIRECTED. AFTER THOROUGH TAMPING AROUND AND BENEATH THE UTILITY, A SIX-INCH LAYER OF BACKFILL WILL BE THOROUGHLY COMPACTED AS FOLLOWS: IF DRY, SHALL BE MOISTENED AND THEN COMPACTED WITH MECHANICAL TAMPERS OR BY HAND TAMPERS HAVING A TAMPING FACE NOT EXCEEDING 25 SQUARE INCHES IN AREA. THE FINAL TWELVE INCHES OF FILLING WILL, IN ALL CASES, CONSIST OF APPROVED GRAVEL THOROUGHLY TAMPED.
24. CONTRACTOR SHALL PROVIDE FIELD COMPACTION VERIFICATION UTILIZING ASTM D5195-02, STANDARD TEST METHOD FOR DENSITY OF SOIL & ROCK IN-PLACE AT DEPTHS BELOW THE SURFACE BY NUCLEAR METHODS.
25. CONTRACTOR SHALL PROVIDE FIELD COMPACTION RESULTS TO ENGINEER WITHIN 24-HOURS PRIOR TO PLACEMENT OF INFRASTRUCTURE OR BITUMINOUS BINDER.
26. ALL FILL TO BRING PROPOSED ROADWAY UP TO THE SUB-GRADE LEVEL SHALL EXTEND PAST THE EDGE OF THE RIGHT-OF-WAY AT A 2:1 SLOPE. THIS IS TO PROVIDE ADEQUATE SUPPORT FOR THE RIGHT-OF-WAY.

LAYOUT NOTES

- 1. ALL CONSTRUCTION IN CITY/TOWN RIGHT-OF-WAYS AND/OR EASEMENTS SHALL BE IN ACCORDANCE WITH THE CITY/TOWN STANDARD SPECIFICATIONS.
2. IN THE EVENT OF DISCREPANCIES BETWEEN LOCAL SPECIFICATIONS AND SITE SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL GOVERN.
3. SITE CONTRACTOR SHALL PROTECT ALL BENCHMARKS AND PROPERTY MONUMENTATION AND SHALL REPLACE OR REPAIR, AT HIS OWN EXPENSE, BENCHMARKS AND MONUMENTATION DISTURBED DURING CONSTRUCTION.
4. ALL STRIPING, PAVEMENT MARKINGS, AND TRAFFIC SIGNAGE SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION, UNLESS OTHERWISE NOTED ON THE PLANS.
5. ALL WORK SHALL COMPLY WITH FEDERAL, STATE AND LOCAL CODES AND ORDINANCES INCLUDING BUT NOT LIMITED TO: AASHTO, OSHA, EPA, DEP, MASSDOT, ETC. THE GENERAL CONTRACTOR SHALL APPLY FOR ALL PERMITS AND SHALL PAY ALL PERMIT RELATED FEES. ALL NECESSARY PERMITS SHALL BE OBTAINED PRIOR TO THE START OF WORK.
6. ALL DIMENSIONS AND CONDITIONS SHOWN ON THE DRAWINGS ARE TO BE VERIFIED BY THE CONTRACTOR. IF FIELD CONDITIONS VARY SIGNIFICANTLY ENOUGH TO REQUIRE A CHANGE TO THE CONTRACT DOCUMENTS, THE PROJECT PROPONENT AND ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
7. THE SITE/GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL CONTACT THE OWNER AND ENGINEER SHOULD HE FIND ANY CONFLICT OR INCONSISTENCY BETWEEN THE WORK SHOWN ON THE DRAWINGS AND NORMAL ACCEPTED CONSTRUCTION PRACTICES, OR HE SHALL ASSUME RESPONSIBILITY FOR ALL CORRECTIONS.
8. ANY CORRECTIONS REQUIRED FOR REVISIONS TO THE CONTRACT DRAWINGS INITIATED BY THE GENERAL CONTRACTOR OR SUBCONTRACTORS WITHOUT PRIOR APPROVAL OF THE OWNER AND OR THE ENGINEER SHALL BE ACCOMPLISHED AT THE CONTRACTORS RISK.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL & LEGAL DISPOSAL OF ALL MATERIAL NECESSARY TO PREPARE THE SITE FOR THE NEW CONSTRUCTION AS SHOWN ON THE SITE DRAWINGS.
10. REPAIR DAMAGED CITY/TOWN ROADS AND CURBS IN ACCORDANCE WITH MASSDOT AND/OR THE CITY/TOWN REGULATIONS.
11. CONTRACTOR SHALL SAWCUT PAVEMENT EDGE WHERE PAVEMENT TO REMAIN IS ADJACENT TO PAVEMENT TO BE REMOVED.
12. CONTRACTOR SHALL PREPARE SITE AS NECESSARY FOR CONSTRUCTION SHOWN ON THE PLANS.

EARTHWORK NOTES

- 1. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
2. ALL CUT OR FILL SLOPES SHALL BE 3:1 OR FLATTER UNLESS OTHERWISE NOTED.
3. STORM PIPE SHALL BE AS NOTED ON PLANS.
4. EXISTING DRAINAGE STRUCTURES TO BE INSPECTED AND REPAIRED AS NEEDED, AND EXISTING PIPES TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS.
5. EXISTING GRADE CONTOUR INTERVALS SHOWN AT 1 FOOT INTERVALS.
6. PROPOSED GRADE CONTOUR INTERVALS SHOWN AT 1 FOOT INTERVALS.
7. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.
8. ALL STORM PIPE ENTERING STRUCTURES SHALL BE SEALED TO ASSURE CONNECTION AT STRUCTURE IS WATERTIGHT.
9. ALL STORM SEWER MANHOLES FRAMES AND GRATES ARE TO BE SET EQUAL TO FINISH GRADES, AND SHALL HAVE TRAFFIC BEARING RING & COVERS (H20).
10. CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.
11. CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS.
12. ALL UNSURFACED AREAS DISTURBED BY GRADING OPERATION SHALL RECEIVE 4 INCHES OF TOPSOIL. CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPES 3H:1V OR STEEPER. CONTRACTOR SHALL GRASS DISTURBED AREAS IN ACCORDANCE WITH THE SPECIFICATIONS UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.
13. CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND BE CONSTRUCTED TO SAME.
14. IF CONTRACTOR RELOCATES OR SETS NEW BENCHMARKS, THE VERTICAL ELEVATIONS OF THE BENCHMARKS SHALL BE SET WITHIN A TOLERANCE OF 0.010 FT.
15. CONTRACTOR SHALL LEAVE GRADE BEHIND CURB IN ALL PLANTER AREAS A MINIMUM OF 4" LOW FOR THE PLACEMENT OF SUITABLE TOPSOIL OR PLANTING MIX.

SITE UTILITY NOTES

- GENERAL:
1. ALL FILL MATERIAL IS TO BE IN PLACE, AND COMPACTED BEFORE INSTALLATION OF PROPOSED UTILITIES.
2. TOPS OF EXISTING MANHOLES SHALL BE SET EQUAL TO FINISH GRADE. IN GRASSED LANDSCAPED AREAS WITH WATER TIGHT LIDS.
3. ALL CONCRETE FOR ENCASEMENTS SHALL HAVE A MINIMUM 28 DAY COMPRESSION STRENGTH AT 3000 P.S.I.
4. DRAWINGS DO NOT PURPORT TO SHOW ALL EXISTING UTILITIES.
5. EXISTING UTILITIES SHALL BE VERIFIED IN FIELD PRIOR TO INSTALLATION OF ANY NEW LINES.
6. SITE/GENERAL CONTRACTOR IS RESPONSIBLE FOR COMPLYING TO THE SPECIFICATIONS OF THE LOCAL AUTHORITIES AT THE TOWN WITH REGARD TO MATERIALS AND INSTALLATION OF THE WATER AND SEWER LINES.
7. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
8. CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES FOR INSTALLATION REQUIREMENTS AND SPECIFICATIONS.
9. CONTRACTOR SHALL COORDINATE INSPECTION OF UTILITY LINES WITH APPROPRIATE AUTHORITIES PRIOR TO BACKFILLING TRENCHES.
10. CONTRACTOR SHALL COMPLY WITH THE LATEST OSHA STANDARDS OR DIRECTIVES OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND MAINTENANCE OF ALL SUPPORT SYSTEMS, SLOPING, BENCHING, AND OTHER MEANS OF PROTECTION.
11. CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES WITH LOCAL COMPANIES TO AVOID CONFLICTS AND TO ASSURE THAT PROPER DEPTHS ARE ACHIEVED. CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITY COMPANIES FOR EXACT LOCATION AND SCHEDULING OF CONNECTIONS TO THEIR FACILITIES.
12. THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY DUE TO THE LACK OF AVAILABLE DOCUMENTATION. ALL UTILITIES, INCLUDING CURB BOXES, MAY NOT BE SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL CALL THE "DIG SAFE CENTER" TO HAVE ALL UTILITIES MARKED ON THE GROUND PRIOR TO THE START OF CONSTRUCTION
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH OCCUR DUE TO HIS FAILURE TO LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
14. DO NOT INTERRUPT EXISTING UTILITIES WITHOUT AUTHORIZATION FROM THE OWNER, OWNERS OF ADJACENT PROPERTIES, AND THE CORRESPONDING UTILITY OWNER. CONTRACTOR SHALL ARRANGE TO SHUT OFF UTILITIES, AS REQUIRED, WITH THE UTILITY OWNERS.
15. COORDINATE UTILITY TERMINATION WITH UTILITY OWNERS.

- SEWER:
1. SANITARY SEWER MAINS AND LATERALS SHALL BE PVC PIPE CONFORMING TO ASTM D 3034-SDR35. THE MINIMUM SIZE FOR SEWER MAINS SHALL BE 8", SEWER LATERALS SHALL BE 4" MIN.
2. ALL SANITARY SEWERS, SEWER FORCE MAINS, AND SEWER LATERALS SHALL BE INSTALLED IN FIRST-CLASS BEDDING AND IN ACCORDANCE WITH THE DEPARTMENT OF PUBLIC WORKS SPECIFICATIONS. SEWERS SHALL BE INSTALLED TO THE LINE AND GRADE INDICATED ON THE PLANS.
3. ONLY PRECAST CONCRETE MANHOLES OF A DESIGN APPROVED BY THE TOWN ENGINEER SHALL BE INSTALLED ON A SANITARY SEWER MAIN.
4. NO GROUNDWATER OR SURFACE WATER SHALL BE DISCHARGED INTO THE SANITARY SEWER.
5. WHERE ROCK IS ENCOUNTERED, IT SHALL BE REMOVED TO A DEPTH OF ONE FOOT BELOW THE FLOWLINE OF THE SEWER AND THE PIPE LAID IN A PROPERLY COMPACTED GRANULAR MATERIAL APPROVED BY THE TOWN ENGINEER.
6. ONLY GRANULAR MATERIAL APPROVED BY THE TOWN ENGINEER SHALL BE USED AS BACKFILL IN ANY TRENCH EXCAVATION.

- WATER:
1. CONTRACTOR SHALL CONTACT THE CITY/TOWN WATER DEPARTMENT FOR SPECIFICATIONS AND MAKE OF VALVES, VALVE BOXES, FIRE HYDRANTS AND ALL OTHER WATER LINE APPURTENANCES.
2. WATER LINE TESTING AND STERILIZATION SHALL BE PERFORMED IN ACCORDANCE WITH LOCAL DPW SPECIFICATIONS AND WATER DISTRIBUTION SYSTEM. CONTRACTOR SHALL COORDINATE TESTING WITH THE TOWN WATER DEPARTMENT.
3. ALL WATER MAIN SHALL BE DUCTILE IRON (D.I.), CLASS 52, AWWA C-151 (ANSI A21.40). D.I. PIPE SHALL BE DOUBLE CEMENT LINED WITH A SEAL COAT CONFORMING TO AWWA C-104 (ANSI A-21.4).
4. JOINTS FOR D.I. PIPE SHALL BE PUSH-ON OR OTHERWISE APPROVED, AWWA C151(ANSI A-21.51) WITH GASKETS CONFORMING TO AWWA C-111 (ANSI A-21.11) MAXIMUM LENGTH OF PIPE TO BE 20 L.F.
5. ALL FITTINGS SHALL BE DUCTILE IRON CLASS 53 WITH PRESSURE RATING OF 350 PSI AND MECHANICAL JOINTS CONFORMING TO AWWA C-151 (ANSI A21.51).
6. RETAINER GLANDS: RETAINER GLANDS SHALL BE DESIGNED TO IMPART MULTIPLE WEDGING ACTION AGAINST THE PIPE, INCREASE ITS RESISTANCE AS THE PRESSURE INCREASES. GLANDS SHALL BE MANUFACTURED OF DUCTILE IRON CONFORMING TO ASTM A536-80. RESTRAINING DEVICES SHALL BE DUCTILE IRON HEAT-TREATED TO A MINIMUM HARDNESS OF 370 BHN. TWIST-OFF NUTS SHALL BE USED TO INSURE PROPER ACTUATING OF THE RETAINER GLAND. DIMENSIONS OF THE GLAND SHALL BE SUCH THAT IT CAN BE USED WITH THE STANDARD MECHANICAL JOINT BELL AND TEE-HEADED BOLTS CONFORMING TO ANSI/AWWA A21.1 AND ANSI/AWWA 153/A21.5. THE RETAINER GLAND SHALL HAVE A WORKING PRESSURE OF 250 PSI WITH A MINIMUM SAFETY FACTOR OF 2:1 AND SHALL BE CERTIFIED BY THE MANUFACTURER TO BE COMPATIBLE WITH THE PIPE CLASS AND PIPE MANUFACTURER FOR ALL SIZES PROVIDED ON THE JOB. THE RETAINER GLAND SHALL BE MEGA-LUG AS MANUFACTURED EBAA IRON, INC., OR APPROVED EQUAL.
7. ALL WATER MAINS, UNLESS OTHERWISE NOTED, SHALL BE INSTALLED WITH A MINIMUM FIVE FEET OF COVER. WHEN CROSSING ABOVE OR BELOW WATER PIPELINES, A MINIMUM VERTICAL SEPARATION OF SIX INCHES SHALL BE PROVIDED. WHEN CROSSING SANITARY SEWERS, A MINIMUM OF 18" SHALL BE PROVIDED.

SITE UTILITY NOTES (CONTINUED)

- 8. THE INSTALLED WATER MAIN SHALL BE PRESSURE TESTED, FLUSHED AND DISINFECTED BY CONTRACTOR IN ACCORDANCE WITH AWWA C-600 AND AWWA C-651 OR PER CITY/TOWN WATER DEPARTMENT STANDARDS.
9. DUCTILE IRON PIPES SHALL BE INSTALLED IN ACCORDANCE WITH AWWA C-600.
10. ALL MECHANICAL JOINTS ARE TO BE RESTRAINED. FITTINGS SHALL BE RESTRAINED BY MECHANICAL JOINT RESTRAINTS. THE PIPE CONNECTED TO THE FITTING SHALL BE RESTRAINED PER THE MANUFACTURER'S SCHEDULE.
11. THE CONTRACTOR SHALL MARK THE LOCATION OF THE PROPOSED WATER MAIN AT LEAST 48 HOURS PRIOR TO EXCAVATING. EXCAVATION SHALL NOT PROCEED WITHOUT AUTHORIZATION BY THE ENGINEER.
12. ALL WATER MAINS, HYDRANT BRANCHES, AND SERVICES SHALL HAVE UTILITY WARNING TAPE. THE TAPE SHALL BE BURIED APPROXIMATELY 2 FEET BELOW FINISHED GRADE.
13. BACKFILL SHALL BE COMPACTED TO 95 PERCENT OF THE STANDARD PROCTOR DENSITY AS DETERMINED BY ASTM D698. COMPACTION EQUIPMENT USED MUST BE SPECIFICALLY DESIGNED FOR COMPACTION. TAMPING WITH THE BACK OF THE BACK HOE BUCKET IS UNACCEPTABLE COMPACTION.
14. ALL WATER SERVICES SHALL BE 1" DIA. COPPER TUBING TYPE K, SOFT TEMPER CONFORMING TO ASTM B88 UNLESS OTHERWISE NOTED.
15. DEPRESS WATER MAIN UNDER EXISTING SERVICES AND HYDRANT BRANCHES TO MAINTAIN 5'-0" OF COVER.
16. ALL WATER MAINS SHALL BE LAID PER THE PLANS TO MAINTAIN THE MAXIMUM SEPARATION FROM EXISTING OR PROPOSED SANITARY SEWER. DISTANCE SHALL BE MEASURED EDGE TO EDGE.
17. IDENTIFY EACH PIPE LENGTH & FITTING CLEARLY WITH MANUFACTURE'S NAME & TRADEMARK. NOMINAL PIPE SIZE & MATERIAL DESIGNATION.
18. ALL WATER MAINS & SERVICE PIPES SHALL BE LAID IN A TRENCH SEPARATE FROM ANY OTHER UTILITY (GAS, ELECTRIC, TELEPHONE, ETC.) SHALL BE A MINIMUM NO LESS THAN FIVE (5) FEET FROM ANOTHER UTILITY.
19. ALL MATERIAL SHALL BE IN ACCORDANCE WITH CITY/TOWN WATER DEPARTMENT "RULES & REGULATIONS". ALL WORK TO BE PERFORMED IN ACCORDANCE WITH CITY/TOWN WATER DEPARTMENT "SPECIFICATIONS". CITY/TOWN WATER DEPARTMENT STANDARDS SHALL TAKE PRECEDENCE OVER ANY REQUIREMENTS LISTED ABOVE.

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CONSTRUCTION NOTES State Road Whately, MA Map 5 Parcel 29



PREPARED FOR: Todd Cellura Sovereign Builders 135 Southampton Rd Westhampton, MA 01027

Table with columns: ISSUANCE DATE: February 23, 2021; REVISIONS; DATE.

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SCALE: AS NOTED RLA PROJ. NUMBER: 200912

Table with columns: DRAWING#, REV. C-2 -

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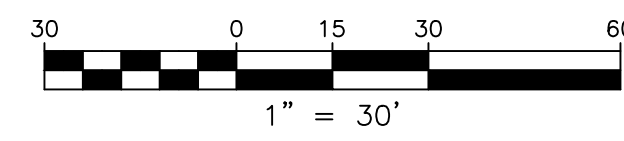
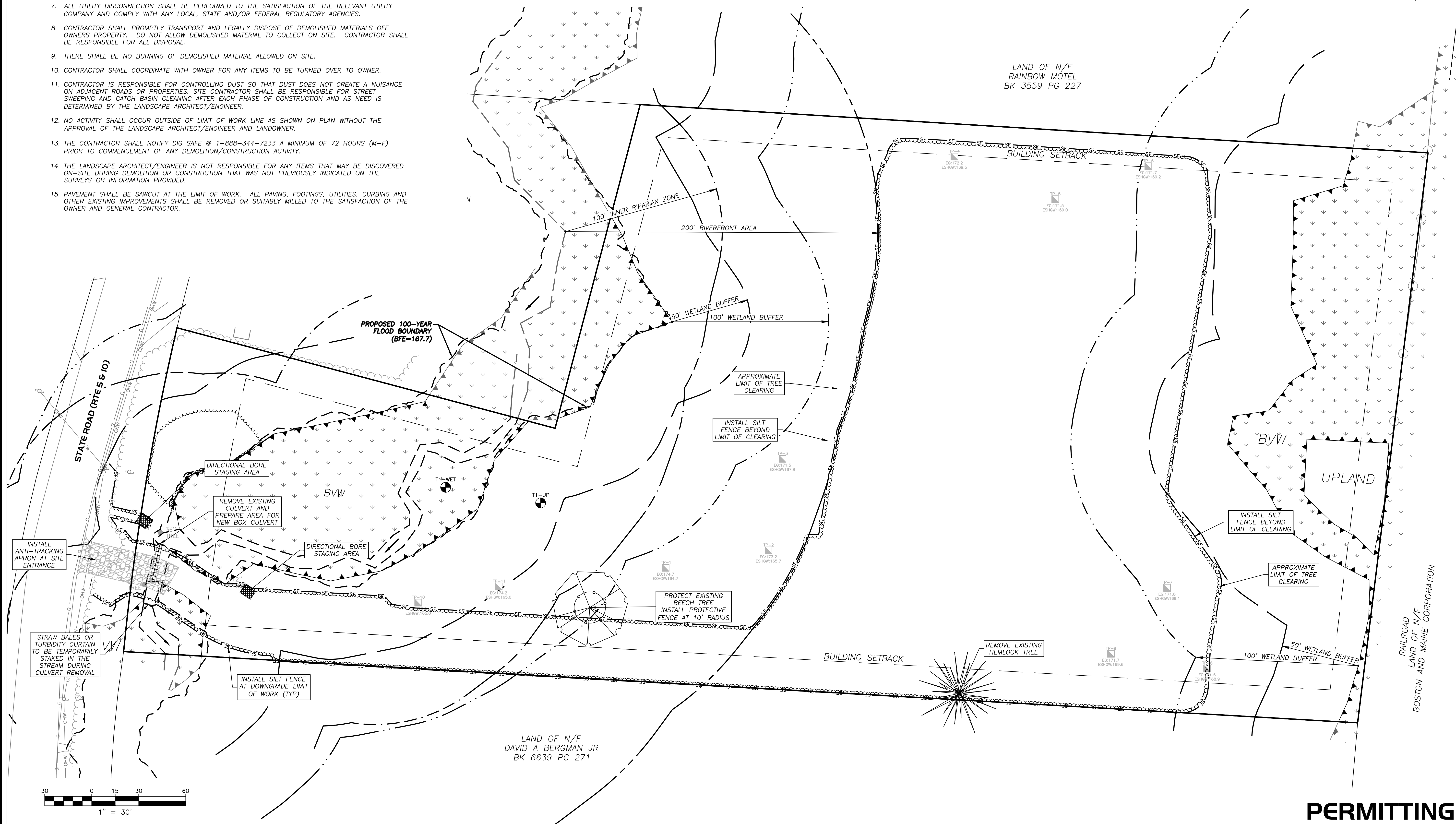
DEMOLITION NOTES

1. THE INFORMATION SHOWN HEREON IS NOT INTENDED TO BE AN EXHAUSTIVE SURVEY OF ALL APPURTENANCES THAT MAY OR MAY NOT BE IN PLACE TO SERVE THE EXISTING ON-SITE STRUCTURES AND USE. SEPTIC SYSTEM COMPONENTS, UNDERGROUND TANKS, AND OTHER SUB-SURFACE STRUCTURES MAY BE IN PLACE AND MAY REQUIRE ATTENTION BEFORE CONSTRUCTION MAY PROCEED.
2. CONTRACTOR SHALL CONDUCT A PRE-DEMOLITION SURVEY TO IDENTIFY ANY AND ALL UTILITIES AND UTILITY COMPONENTS TO BE DISCONTINUED, REMOVED, OR DEMOLISHED IN PLACE AND THE PRESENCE OR ABSENCE OF ANY HAZARDOUS MATERIALS.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION, REMOVAL OR RELOCATION, INCLUDING BUT NOT LIMITED TO: ALL UTILITIES, STORM DRAINAGE, SIGNS, TRAFFIC SIGNALS & POLES, ETC. AS REQUIRED. ALL WORK SHALL BE IN ACCORDANCE WITH GOVERNING AUTHORITIES' SPECIFICATIONS AND SHALL BE APPROVED BY SUCH. ALL COSTS SHALL BE INCLUDED IN BASE BID.
4. CONTRACTOR SHALL ERECT AND MAINTAIN SAFETY BARRICADES AND POST PROPER NOTICES PRIOR TO THE COMMENCEMENT OF WORK.
5. CONTRACTOR SHALL PROTECT EXISTING SITE IMPROVEMENTS, APPURTENANCES AND LANDSCAPING TO REMAIN.
6. CONTRACTOR SHALL MAINTAIN EXISTING UTILITIES TO REMAIN IN SERVICE AND PROTECT THEM FROM DAMAGE DURING DEMOLITION OPERATIONS. ANY DAMAGE TO EXISTING UTILITIES TO REMAIN SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE UTILITY OWNER.
7. ALL UTILITY DISCONNECTION SHALL BE PERFORMED TO THE SATISFACTION OF THE RELEVANT UTILITY COMPANY AND COMPLY WITH ANY LOCAL, STATE AND/OR FEDERAL REGULATORY AGENCIES.
8. CONTRACTOR SHALL PROMPTLY TRANSPORT AND LEGALLY DISPOSE OF DEMOLISHED MATERIALS OFF OWNERS PROPERTY. DO NOT ALLOW DEMOLISHED MATERIAL TO COLLECT ON SITE. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DISPOSAL.
9. THERE SHALL BE NO BURNING OF DEMOLISHED MATERIAL ALLOWED ON SITE.
10. CONTRACTOR SHALL COORDINATE WITH OWNER FOR ANY ITEMS TO BE TURNED OVER TO OWNER.
11. CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST SO THAT DUST DOES NOT CREATE A NUISANCE ON ADJACENT ROADS OR PROPERTIES. SITE CONTRACTOR SHALL BE RESPONSIBLE FOR STREET SWEEPING AND CATCH BASIN CLEANING AFTER EACH PHASE OF CONSTRUCTION AND AS NEED IS DETERMINED BY THE LANDSCAPE ARCHITECT/ENGINEER.
12. NO ACTIVITY SHALL OCCUR OUTSIDE OF LIMIT OF WORK LINE AS SHOWN ON PLAN WITHOUT THE APPROVAL OF THE LANDSCAPE ARCHITECT/ENGINEER AND LANDOWNER.
13. THE CONTRACTOR SHALL NOTIFY DIG SAFE @ 1-888-344-7233 A MINIMUM OF 72 HOURS (M-F) PRIOR TO COMMENCEMENT OF ANY DEMOLITION/CONSTRUCTION ACTIVITY.
14. THE LANDSCAPE ARCHITECT/ENGINEER IS NOT RESPONSIBLE FOR ANY ITEMS THAT MAY BE DISCOVERED ON-SITE DURING DEMOLITION OR CONSTRUCTION THAT WAS NOT PREVIOUSLY INDICATED ON THE SURVEYS OR INFORMATION PROVIDED.
15. PAVEMENT SHALL BE SAWCUT AT THE LIMIT OF WORK. ALL PAVING, FOOTINGS, UTILITIES, CURBING AND OTHER EXISTING IMPROVEMENTS SHALL BE REMOVED OR SUITABLY MILLED TO THE SATISFACTION OF THE OWNER AND GENERAL CONTRACTOR.

CONSTRUCTION SEQUENCE

1. CONTACT THE TOWN OF WHATELY AT LEAST FORTY-EIGHT HOURS PRIOR TO COMMENCEMENT OF ANY DEMOLITION, CONSTRUCTION, OR EARTHWORK ACTIVITY ON THIS PROJECT.
2. CONSTRUCT ANTI-TRACKING PAD AT ENTRANCE AND INSTALL ANY REQUIRED INLET PROTECTION AS DEPICTED ON THE PLAN.
3. INSTALL SILT FENCE AS SHOWN ON THE PLANS.
4. UPON COMPLETION OF EROSION CONTROL MEASURES AND INSPECTION BY THE TOWN CONSERVATION AGENT, CLEARING AND GRUBBING AND EARTHWORK MAY COMMENCE.
5. CLEAR AND GRUB SITE. STOCKPILE ANY CHIPPING OR TOPSOIL MATERIAL TO REMAIN ON SITE FOR LONGER THAN 14 DAYS AND INSTALL SILT FENCE AROUND THE PERIMETER OF THE STOCKPILE.

6. COMMENCE EARTHWORK BY EXCAVATING FOR THE CUT/FILL SLOPES AS SHOWN ON THE PLANS. STABILIZE/SEED ANY SLOPES THAT HAVE ACHIEVED FINAL GRADE.
7. INSTALL UTILITIES AS SHOWN ON PLANS INCLUDING WATER SERVICE, SEWER SERVICE, GAS SERVICE, ELECTRICAL SERVICE AND STORMWATER MANAGEMENT SYSTEM.
8. GRADE THE SITE TO ACCEPT PAVEMENT SECTION MATERIALS.
9. INSTALL PAVEMENT AS SPECIFIED ON THE PLANS.
10. UPON INSTALLATION OF PAVEMENT SURFACE, INSTALL INLET PROTECTION AS REQUIRED ON ANY NEW INLET STRUCTURES.
11. FINAL GRADING AND STABILIZATION OF ANY REMAINING EXPOSED AREAS.
12. AT THE DIRECTION OF THE TOWN OF WHATELY, EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED.



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DEMOLITION & REMOVALS PLAN
 State Road
 Whately, MA
 Map 5 Parcel 29

PERMITTING

PREPARED FOR:
 Todd Cellura
 Sovereign Builders
 135 Southampton Rd
 Westhampton, MA 01027

ISSUANCE DATE: February 23, 2021

REVISIONS:	DATE:
A. BUILDING & STORMWATER	6/16/21
B. DRIVEWAY STORMWATER	6/25/21

DRAFTED BY: R.N. & C.K.

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LAYOUT NOTES

1. SITE CONTRACTOR SHALL REFER TO REMAINING PLAN SET FOR INFORMATION REGARDING SITE LAYOUT.
2. IT SHALL BE THE SITE CONTRACTORS RESPONSIBILITY TO CROSS REFERENCE INFORMATION CONTAINED IN OTHER SHEETS WITH SITE INFORMATION SHOWN HEREON.
3. PRIOR TO SUBMITTING THEIR BID FOR CONSTRUCTION, THE SITE CONTRACTOR SHALL COMMUNICATE ANY DISCREPANCIES BETWEEN THE PROPOSED DESIGN AND THE SAID SPECIFICATIONS WITH THE PROJECT PROPONENT AND LANDSCAPE ARCHITECT/ENGINEER. SHOULD THE SITE CONTRACTOR FAIL TO COMMUNICATE ANY DISCREPANCIES, HE/SHE SHALL BE RESPONSIBLE FOR ANY COSTS RESULTING FROM SAID DISCREPANCY.

SIGNAGE AND PAVEMENT MARKING NOTES

1. STRIPE ALL PARKING AREAS AS SHOWN, INCLUDING PARKING SPACES, STOP BARS, CROSSWALKS, AND ACCESSIBLE ROUTE MARKINGS AND SYMBOLS USING WHITE TRAFFIC PAINT. PAINTED ISLANDS, FIRE LANES, AND TRAVEL WAY CENTERLINES SHALL BE PAINTED USING YELLOW TRAFFIC PAINT. ALL TRAFFIC PAINT SHALL CONFORM TO AASHTO M248 TYPE "N".
2. STOP BARS SHALL BE 12" WIDE (WHITE).
3. ALL PARKING STALL LINES SHALL BE 4" WIDE (WHITE).
4. ALL PAVEMENT MARKINGS AND SIGNS SHALL CONFORM TO "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS", MASSDOT, STATE BUILDING CODE AND ADA REQUIREMENTS, AND AS SHOWN ON THE PLANS & DETAILS.

ACCESSIBILITY NOTES

1. ALL ACCESSIBLE ROUTES, TRANSITIONS, AND ACCESSIBLE PARKING/LOADING AREAS, INCLUDING ALL ENTRANCES TO BUILDING, SHALL ADHERE TO 521 CMR.
2. SHOULD THE ARCHITECT PROVIDE ADDITIONAL ENTRANCES OR MEANS OF EGRESS, ADDITIONAL ACCESSIBLE ROUTES MAY BE REQUIRED.
3. IT IS THE RESPONSIBILITY OF THE ARCHITECT AND CONTRACTOR TO NOTIFY THE ENGINEER AND LANDSCAPE ARCHITECT OF ANY CHANGES TO THE PROPOSED BUILDING THAT WOULD AFFECT THE ACCESSIBILITY REQUIREMENTS OF THE PROPOSED SITE.
4. THE CONTRACTOR SHALL REVIEW IN DETAIL THE REQUIREMENTS OF 521 CMR AND SHALL BE RESPONSIBLE FOR CONFORMANCE WITH SAID REGULATIONS.

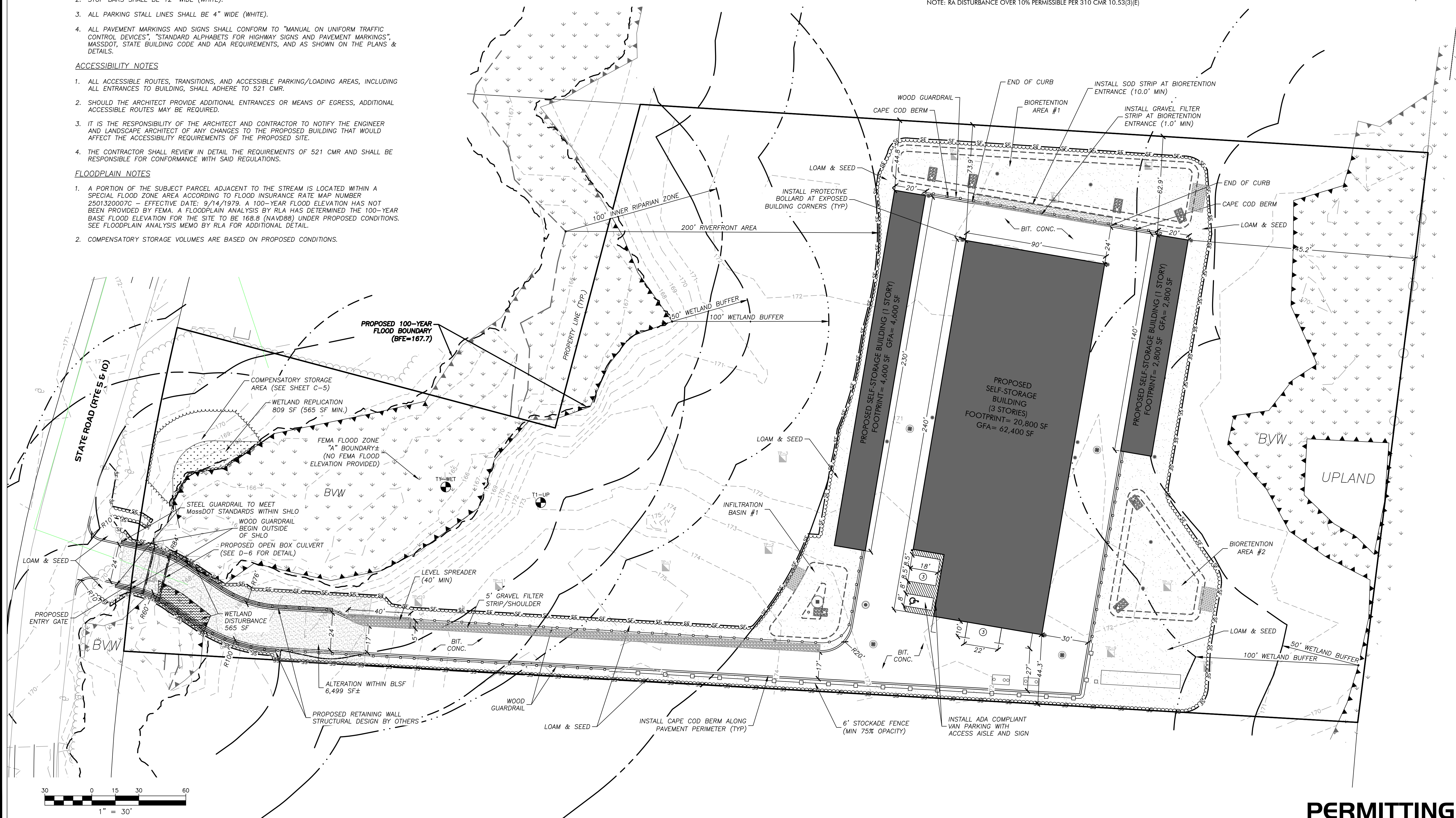
FLOODPLAIN NOTES

1. A PORTION OF THE SUBJECT PARCEL ADJACENT TO THE STREAM IS LOCATED WITHIN A SPECIAL FLOOD ZONE AREA ACCORDING TO FLOOD INSURANCE RATE MAP NUMBER 2501320007C - EFFECTIVE DATE: 9/14/1979. A 100-YEAR FLOOD ELEVATION HAS NOT BEEN PROVIDED BY FEMA. A FLOODPLAIN ANALYSIS BY RLA HAS DETERMINED THE 100-YEAR BASE FLOOD ELEVATION FOR THE SITE TO BE 168.8 (NAVD88) UNDER PROPOSED CONDITIONS. SEE FLOODPLAIN ANALYSIS MEMO BY RLA FOR ADDITIONAL DETAIL.
2. COMPENSATORY STORAGE VOLUMES ARE BASED ON PROPOSED CONDITIONS.

ZONING REVIEW - Commercial (C)		
TYPE (MINIMUM)	REQUIRED	PROPOSED
AREA	60,000 FT ²	NO CHANGE
FRONTAGE	200 FT	NO CHANGE
FRONT YARD	50 FT	>200 FT
SIDE YARD	20 FT	44.3 FT
REAR YARD	20 FT	144.8 FT
BUILDING COVERAGE (MAX)	50%	15%

RIVERFRONT AREA	
RIVERFRONT AREA ON SITE	104,890 SF ±
ALLOWABLE 10% DISTURBANCE OF RA	10,489 SF ±
PROPOSED INNER RIPARIAN DISTURBANCE (0-100)	10,094 SF ±
PROPOSED RIVERFRONT AREA DISTURBANCE (100-200)	6,414 SF ± *
TOTAL PROPOSED RA DISTURBANCE (0-200)	16,508 SF ± *

* EXCLUDES EXEMPTED ACTIVITY (STRUCTURAL STORMWATER MANAGEMENT MEASURES - 310 CMR 10.58 AND COMPENSATORY STORAGE - 310 CMR 10.57)
NOTE: RA DISTURBANCE OVER 10% PERMISSIBLE PER 310 CMR 10.53(3)(E)

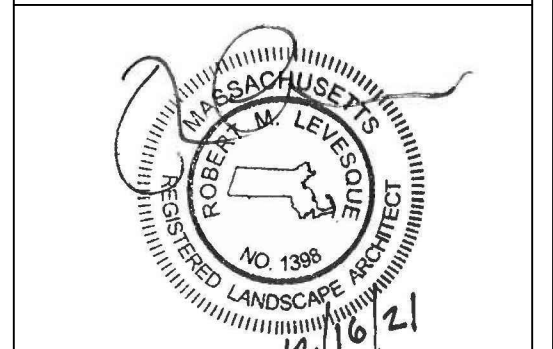


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LAYOUT & MATERIALS PLAN

State Road
 Whately, MA
 Map 5 Parcel 29



PREPARED FOR:
 Todd Cellura
 Sovereign Builders
 135 Southampton Rd
 Westhampton, MA 01027

ISSUANCE DATE:	February 23, 2021
REVISIONS:	DATE:
A. COMP. STOR. GATE & BUFFER	4/29/21
B. BUILDING & STORMWATER	6/16/21
C. DRIVEWAY STORMWATER	6/25/21
D. DOT REVISIONS	8/19/21
E. BUILDING AREA	12/16/21

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SHORT-TERM EROSION CONTROL MAINTENANCE

1. THE CONTRACTOR OR SUBCONTRACTOR WILL BE RESPONSIBLE FOR IMPLEMENTING EACH CONTROL SHOWN ON THE SEDIMENTATION AND EROSION CONTROL PLAN.
2. ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL MEASURES WILL BE INSTALLED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFF-SITE SEDIMENTATION IF DEEMED NECESSARY BY ON-SITE INSPECTION.
3. EFFECTIVE EROSION CONTROL MEASURES SHALL BE INITIATED PRIOR TO THE COMMENCEMENT OF CLEARING, GRADING, EXCAVATION, OR OTHER OPERATIONS THAT WILL DISTURB THE NATURAL PROTECTION.
4. ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND AFTER ANY STORM EVENT GREATER THAN 0.5 INCHES OF PRECIPITATION DURING ANY 24-HOUR PERIOD, AND THE INSPECTION SHALL BE DOCUMENTED IN WRITING. DAMAGED OR INEFFECTIVE DEVICES SHALL BE REPAIRED OR REPLACED, AS NECESSARY.
5. THE CONTRACTOR SHALL TAKE ALL REASONABLE PRECAUTIONS TO AVOID EXCESS EROSION OF THE SITE DUE TO THE CONSTRUCTION OF THIS PROJECT.
6. INSTALL EROSION CONTROL MATS ON ALL SLOPES 3:1 OR GREATER AND MAINTAIN UNTIL STABILIZED.
7. SILT SHALL BE REMOVED FROM BEHIND BARRIERS IF GREATER THAN 6-INCHES DEEP OR AS NEEDED. SEDIMENT THAT IS COLLECTED IN STRUCTURES SHALL BE DISPOSED OF PROPERLY AND COVERED IF STORED ON-SITE.
8. DAMAGED OR DETERIORATED ITEMS WILL BE REPAIRED IMMEDIATELY AFTER IDENTIFICATION.
9. ALL DITCHES SHALL BE STABILIZED AS SOON AS IS PRACTICABLE TO MINIMIZE EROSION.
10. THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES IN A GOOD, WORKING STATE OF REPAIR UNTIL THEIR USE IS NO LONGER WARRANTED. AT THAT TIME, THE EROSION CONTROL DEVICES SHALL BE REMOVED AND DISPOSED OF SO AS TO CAUSE NO OFF-SITE SILTATION.
11. INSPECT AND MAINTAIN CONSTRUCTION ENTRANCE STONE SUCH THAT SEDIMENT DOES NOT TRACK ONTO THE STREET. ANY SEDIMENT TRACKED ONTO THE STREET SHALL BE CLEANED DAILY.
12. AFTER CATCH BASINS HAVE BEEN CONSTRUCTED AND THE SITE HAS BEEN PAVED, THE CONTRACTOR SHALL PROTECT THE INLETS BY CONSTRUCTING INLET PROTECTION AS SHOWN ON THE PLANS. INLET PROTECTION TO REMAIN IN PLACE AND MAINTAINED UNTIL DISTURBED AREAS HAVE BEEN STABILIZED, LOAMED AND SEEDED.
13. EROSION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL ALL DISTURBED EARTH HAS BEEN SUBSTANTIALLY STABILIZED. AFTER REMOVAL OF MEASURES, DISTURBED AREAS SHALL BE REGRADED AND STABILIZED AS NECESSARY.
14. THIS PLAN IS PROVIDED AS A BASIS FOR THE INITIAL SEDIMENTATION AND EROSION CONTROL MEASURES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO UPDATE AND EXPAND THIS PLAN AS SITE CONDITIONS DICTATE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PREVENT THE OCCURRENCE OF SILTATION TO WETLAND RESOURCE AREAS AND THE MOVEMENT OF SEDIMENT BEYOND THE SITE BOUNDARIES.

GRADING & DRAINAGE NOTES

1. SITE CONTRACTOR SHALL REFER TO REMAINING PLAN SET FOR INFORMATION REGARDING GRADING AND DRAINAGE.
2. IT SHALL BE THE SITE CONTRACTORS RESPONSIBILITY TO CROSS REFERENCE INFORMATION CONTAINED IN OTHER SHEETS WITH GRADING AND DRAINAGE INFORMATION SHOWN HEREON.
3. PRIOR TO SUBMITTING A BID FOR CONSTRUCTION, THE SITE CONTRACTOR SHALL COMMUNICATE ANY DISCREPANCIES BETWEEN THE PROPOSED DESIGN AND THE SPECIFICATIONS WITH THE PROJECT PROPONENT AND LANDSCAPE ARCHITECT/ENGINEER. SHOULD THE SITE CONTRACTOR FAIL TO COMMUNICATE ANY DISCREPANCIES, HE/SHE SHALL BE RESPONSIBLE FOR ANY COSTS RESULTING FROM SAID DISCREPANCY.
4. CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT/ENGINEER OF ANY UNEXPECTED CONDITIONS THAT ARE ENCOUNTERED DURING CONSTRUCTION.
5. ONCE DRAINAGE SYSTEM IS INSTALLED AND FUNCTIONING, THE OWNER/SITE CONTRACTOR SHALL COORDINATE WITH R LEVESQUE ASSOCIATES, INC. (RLA) TO CONDUCT A POST-CONSTRUCTION ANALYSIS OF THE DRAINAGE SYSTEM DURING ACTUAL STORM EVENTS TO DETERMINE THE FUNCTIONALITY OF THE INSTALLED DRAINAGE SYSTEM DURING SAID EVENTS. SHOULD THE DRAINAGE SYSTEM NOT FUNCTION AS DESIGNED UNDER REAL WORLD CONDITIONS, RLA WILL RECOMMEND ADJUSTMENTS TO THE DRAINAGE SYSTEM TO BE IMPLEMENTED BY THE OWNER/SITE CONTRACTOR.
6. ALL UTILITY CONSTRUCTION SHALL CONFORM TO THEIR RESPECTIVE TOWN DEPARTMENT SPECIFICATIONS.

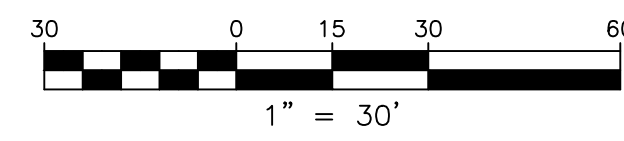
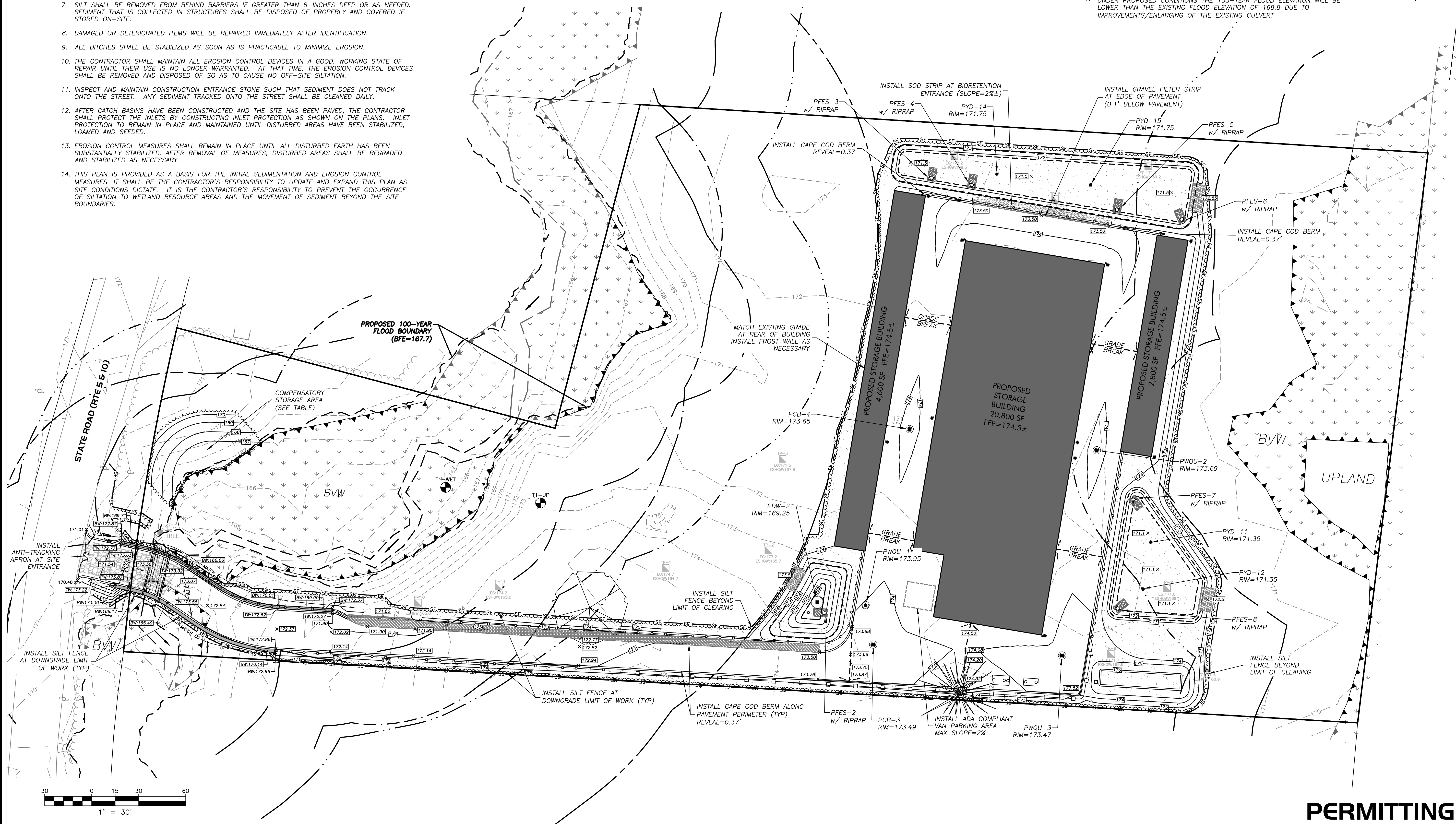
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4. THE CONTRACTOR SHALL REVIEW IN DETAIL THE REQUIREMENTS OF 521 CMR AND SHALL BE RESPONSIBLE FOR CONFORMANCE WITH SAID REGULATIONS.

COMPENSATORY STORAGE CALCULATIONS

BASE FLOOD ELEVATION = 167.7*			
ELEVATION RANGE	PROPOSED BLSF DISPLACEMENT (CY)	COMPENSATORY STORAGE PROVIDED (CY)	Δ (CF)
163-164	0	0	0
164-165	0	+4.7	+4.7
165-166	0	+1.1	+1.1
166-167	-9.1	+9.4	+0.3
167-168	-22.7	+26.3	+3.6
TOTAL	-31.8	+41.5	+9.7

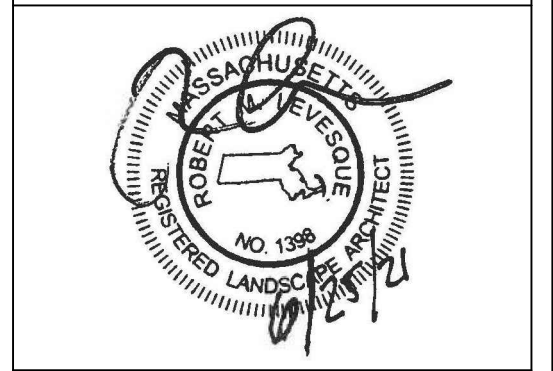
* SEE FLOODPLAIN ANALYSIS PLAN & MEMO FOR DETAILS
 ** UNDER PROPOSED CONDITIONS THE 100-YEAR FLOOD ELEVATION WILL BE LOWER THAN THE EXISTING FLOOD ELEVATION OF 168.8 DUE TO IMPROVEMENTS/ENLARGING OF THE EXISTING CULVERT



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 Westfield, MA 01085
 rland.com

GRADING, EROSION & SEDIMENTATION CONTROL PLAN
 State Road
 Whately, MA
 Map 5 Parcel 29



PREPARED FOR:
 Todd Cellura
 Sovereign Builders
 135 Southampton Rd
 Westhampton, MA 01027

ISSUANCE DATE:	February 23, 2021
REVISIONS:	DATE:
A. COMP. STOR., GATE & BUFFER	4/29/21
B. BUILDING & STORMWATER	6/16/21
C. DRIVEWAY STORMWATER	6/25/21

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SCALE: AS NOTED	
RLA PROJ. NUMBER: 200912	
DRAWING#	REV.
C-5	C

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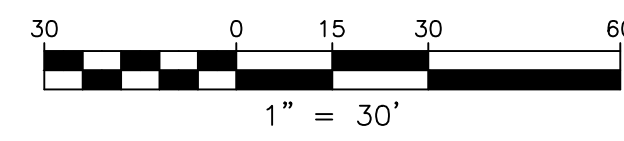
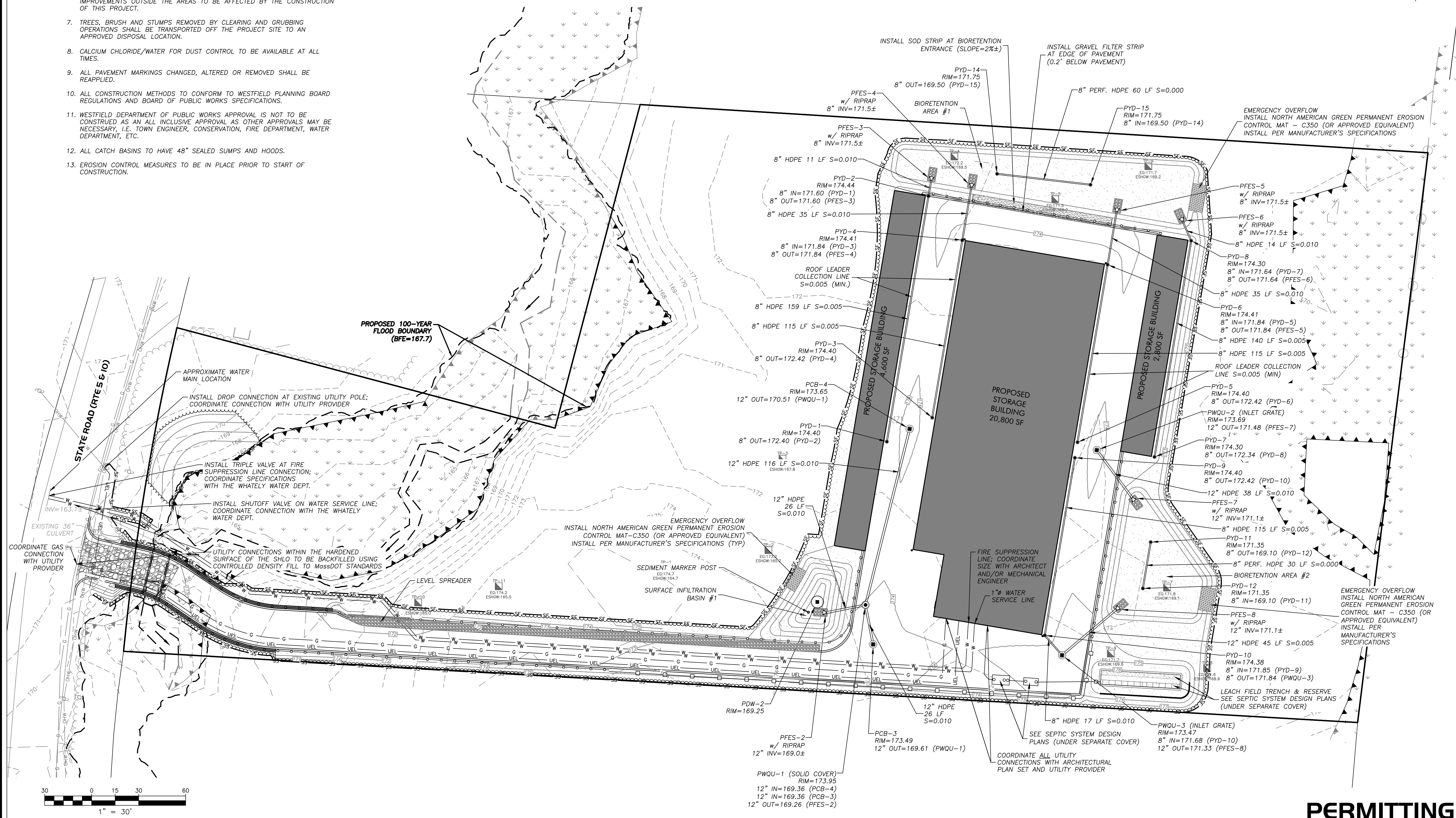
CONSTRUCTION NOTES

- UNDERGROUND UTILITIES SHOWN HEREON ARE BASED UPON SURFACE FEATURES AS LOCATED BY SURVEY AND AVAILABLE RECORD DATA AND ARE APPROXIMATE. ACTUAL FIELD LOCATIONS SHOULD BE VERIFIED WITH THE APPROPRIATE UTILITY COMPANY AND/OR MUNICIPAL DEPARTMENT PRIOR TO CONSTRUCTION.
- CONTRACTOR TO NOTIFY DIG SAFE A MINIMUM OF 72 HOURS PRIOR TO START OF CONSTRUCTION ACCORDING TO MA GENERAL LAWS.
- APPROVED PLANS TO BE ON SITE AT ALL TIMES.
- CHANGES TO THIS PLAN MAY OCCUR AS UNFORESEEN CONDITIONS ARISE. ALL CHANGES TO BE APPROVED BY DESIGN ENGINEER, FIELD INSPECTOR AND CITY/TOWN ENGINEER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND SAFETY OF TRAFFIC ON THE PUBLIC AND PRIVATE WAYS AFFECTED BY THE CONSTRUCTION OF THIS PROJECT.
- CONTRACTOR SHALL PROTECT ALL SLOPES, VEGETATION, PAVING, WALKS, AND IMPROVEMENTS OUTSIDE THE AREAS TO BE AFFECTED BY THE CONSTRUCTION OF THIS PROJECT.
- TREES, BRUSH AND STUMPS REMOVED BY CLEARING AND GRUBBING OPERATIONS SHALL BE TRANSPORTED OFF THE PROJECT SITE TO AN APPROVED DISPOSAL LOCATION.
- CALCIUM CHLORIDE/WATER FOR DUST CONTROL TO BE AVAILABLE AT ALL TIMES.
- ALL PAVEMENT MARKINGS CHANGED, ALTERED OR REMOVED SHALL BE REAPPLIED.
- ALL CONSTRUCTION METHODS TO CONFORM TO WESTFIELD PLANNING BOARD REGULATIONS AND BOARD OF PUBLIC WORKS SPECIFICATIONS.
- WESTFIELD DEPARTMENT OF PUBLIC WORKS APPROVAL IS NOT TO BE CONSTRUED AS AN ALL INCLUSIVE APPROVAL AS OTHER APPROVALS MAY BE NECESSARY, I.E. TOWN ENGINEER, CONSERVATION, FIRE DEPARTMENT, WATER DEPARTMENT, ETC.
- ALL CATCH BASINS TO HAVE 48" SEALED SUMPS AND HOODS.
- EROSION CONTROL MEASURES TO BE IN PLACE PRIOR TO START OF CONSTRUCTION.

UTILITY NOTES

- SITE CONTRACTOR SHALL REFER TO REMAINING PLAN SET FOR INFORMATION REGARDING GRADING AND DRAINAGE.
- IT SHALL BE THE SITE CONTRACTOR'S RESPONSIBILITY TO CROSS REFERENCE INFORMATION CONTAINED IN OTHER SHEETS WITH GRADING AND DRAINAGE INFORMATION SHOWN HEREON.
- PRIOR TO SUBMITTING A BID FOR CONSTRUCTION, THE SITE CONTRACTOR SHALL COMMUNICATE ANY DISCREPANCIES BETWEEN THE PROPOSED DESIGN AND THE SPECIFICATIONS WITH THE PROJECT PROPONENT AND LANDSCAPE ARCHITECT/ENGINEER. SHOULD THE SITE CONTRACTOR FAIL TO COMMUNICATE ANY DISCREPANCIES, HE/SHE SHALL BE RESPONSIBLE FOR ANY COSTS RESULTING FROM SAID DISCREPANCY.
- CONTRACTOR TO VERIFY ALL UTILITY CONNECTIONS AND INVERTS FROM EXISTING/PROPOSED BUILDING TO SERVICES IN THE STREET. IF ANY DISCREPANCIES EXISTS BETWEEN PLAN AND INFORMATION FOUND IN THE FIELD, CONTACT ENGINEER AND LANDSCAPE ARCHITECT IMMEDIATELY.
- SEE ARCHITECTURAL PLANS FOR BUILDING CONNECTIONS OF ALL UTILITIES.
- CONTRACTOR SHALL NOTIFY DESIGNER/ENGINEER OF ANY UNEXPECTED CONDITIONS THAT ARE ENCOUNTERED DURING CONSTRUCTION.
- UTILITY CONNECTIONS (NATURAL GAS, ELECTRICAL, TELECOMMUNICATIONS, ETC) SHOWN HEREON ARE SCHEMATIC IN NATURE TO DEPICT CONNECTION OF SAID UTILITIES TO THE SUBJECT BUILDING(S). THE RESPECTIVE UTILITY PROVIDER SHALL BE RESPONSIBLE FOR THE FINAL DESIGN OF THE RELEVANT UTILITY.

- ONCE DRAINAGE SYSTEM IS INSTALLED AND FUNCTIONING, THE OWNER/SITE CONTRACTOR SHALL COORDINATE WITH R LEVESQUE ASSOCIATES, INC. (RLA) TO CONDUCT A POST-CONSTRUCTION ANALYSIS OF THE DRAINAGE SYSTEM DURING ACTUAL STORM EVENTS TO DETERMINE THE FUNCTIONALITY OF THE INSTALLED DRAINAGE SYSTEM DURING SAID EVENTS. SHOULD THE DRAINAGE SYSTEM NOT FUNCTION AS DESIGNED UNDER REAL WORLD CONDITIONS, RLA WILL RECOMMEND ADJUSTMENTS TO THE DRAINAGE SYSTEM TO BE IMPLEMENTED BY THE OWNER/SITE CONTRACTOR.
- ALL UTILITY CONSTRUCTION SHALL CONFORM TO THEIR RESPECTIVE TOWN DEPARTMENT SPECIFICATIONS.
- MANY STORMWATER CONVEYANCE PIPES ARE DESIGNED WITH MINIMUM COVER. CONTRACTOR TO ENSURE THAT ADEQUATE COVER IS PROVIDED BASED ON PIPE SPECIFICATIONS. IF ANY CONFLICTS ARE FOUND THE CONTRACTOR MUST CONTACT THE ENGINEER IMMEDIATELY FOR RESOLUTION.



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 Civil Engineers - Land Surveyors
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DRAINAGE & UTILITIES PLAN

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 Whately, MA
 Map 5 Parcel 29**

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 135 Southampton Rd
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ISSUANCE DATE: February 23, 2021

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WETLAND REPLICATION NOTES:
SCHEDULE:

1. WETLAND REPLICATION WORK SHALL TAKE PLACE DURING THE GROWING SEASON. ONCE BEGUN, WORK WILL BE COMPLETED WITHIN APPROXIMATELY THREE WEEKS. WETLAND REPLICATION WORK SHALL BE DONE CONCURRENT WITH SITE WORK.
2. THE WESTFIELD CONSERVATION COMMISSION (WCC) SHALL BE CONTACTED 48 HRS IN ADVANCE OF THE START OF WORK AND A PRE-CONSTRUCTION SITE MEETING SHALL BE HELD WITH THE WCC, THE REGISTERED LANDSCAPE ARCHITECT (RLA) OR WETLAND SCIENTIST, AND THE APPLICANT.
3. THE RLA/WETLAND SCIENTIST, OR HIS REPRESENTATIVE, SHALL BE ON SITE AT THE START OF WORK AND CHECK ON THE PROGRESS OF THE PROJECT REGULARLY DURING WORK IN WETLANDS AND AT OTHER CRITICAL POINTS DURING CONSTRUCTION. AT A MINIMUM, THE RLA/WETLAND SCIENTIST SHALL BE PRESENT: AT THE START OF WORK; TO VERIFY SUBGRADES; AT THE BEGINNING OF PLANTING; AND TO VERIFY THAT WORK IS COMPLETE.
4. AN INSPECTION REPORT SHALL BE SUBMITTED TO THE WCC BY THE RLA DURING THE WETLAND CONSTRUCTION PERIOD.

CONSTRUCTION SEQUENCE:

1. THE RLA/WETLAND SCIENTIST SHALL STAKE OUT THE LIMITS OF THE WETLAND REPLICATION AREA BEFORE CONSTRUCTION COMMENCES AND MARK GRADE STAKES FOR CUT TO PROPER DEPTH BELOW PROPOSED FINISH GRADE FOR REPLICATION AREA.
2. INSTALL EROSION CONTROL AND SILTATION BARRIERS AT LOCATIONS SHOWN ON PLAN, PRIOR TO CONSTRUCTION. NO EQUIPMENT TRAFFIC OR OTHER ALTERATION IS PERMITTED BEYOND SEDIMENT BARRIERS OR IN WETLAND AREAS, EXCEPT FOR GRADING AS SHOWN ON THE PLAN. BARRIERS WITHIN THE WETLAND SHALL BE INSTALLED SO AS TO MINIMIZE DISTURBANCE OF THE WETLAND. SILT FENCING SHALL BE TRENCHED IN BY HAND IN WETLAND AREAS. STRAW BALES MAY BE SET DIRECTLY ON THE WETLAND SURFACE WITHOUT TRENCHING, BUT MUST BE WELL STAKED, TIGHTLY BUTTED, AND JOINTS CHINKED WITH LOOSE HAY.
3. CLEAR AND GRUB THE REPLICATION AREA AND REMOVE TOPSOIL FOR STOCKPILING ON ADJACENT LAND AS PER THESE PLANS. EXCAVATE SUBSOIL TO THE DEPTH BELOW THE FINAL GRADE SHOWN ON PLANS TO ALLOW FOR INLAY OF ORGANIC SOIL. DO NOT STOCKPILE TOPSOIL, SUBSOIL, STAMPS OR DEBRIS WITHIN RESOURCE AREAS.
4. EXCAVATION WORK SHALL BE DONE FROM OUTSIDE THE EXISTING WETLAND AND SHALL PROGRESS FROM THE WETLAND EDGE INTO THE UPLAND.
5. THE GROUNDWATER ELEVATION SHALL BE VERIFIED IN THE WETLAND REPLICATION AREA BY THE RLA ONCE THE REPLICATION AREA HAS BEEN EXCAVATED TO SUB-GRADE. IF SEASONAL HIGH GROUNDWATER IS NOT PRESENT AT OR WITHIN SUFFICIENT DEPTH TO SUPPORT WETLAND VEGETATION, MODIFICATIONS TO THE PROPOSED REPLICATION AREA TOPOGRAPHY SHALL BE MADE IN THE FIELD UNDER THE SUPERVISION OF THE RLA/WETLAND SCIENTIST.
6. REPLACE 12 INCHES OF ORGANIC SOIL INLAY TO THE REPLICATION AREA TO ACHIEVE FINAL GRADE. ORGANIC SOIL SHALL BE AN ORGANIC FINE SANDY LOAM APPROVED BY THE RLA/WETLAND SCIENTIST. IT IS ANTICIPATED THAT THE TOPSOIL EXCAVATED FROM THE REPLICATION SITE WILL BE AMENDED FOR THE WETLAND SOIL INLAY.

7. AVOID COMPACTION OF SUBSOILS AND PLACED WETLAND SOILS. EQUIPMENT TRAFFIC IN THE REPLICATION AREA IS TO BE MINIMIZED BY USING TRACK INSTEAD OF WHEEL MACHINES. THERE SHALL BE NO TRAFFIC ON WETLAND SOILS ALREADY PLACED.
8. WETLAND PLANT MIX, AS SPECIFIED ON THE PLANS, SHALL BE OBTAINED FROM A NURSERY IN THE NEW ENGLAND STATES. SEE NOTICE OF INTENT FILING FOR PLANTING REPLICATION AREA PLANTING SCHEDULE.
9. ALL EXPOSED SOIL WITHIN THE RESOURCE AREA(S) SHALL BE SEEDED WITH A WETLAND MIXTURE (SEE SPECIFICATION) AND MULCHED WITH WET MEADOW HAY, SALT HAY OR STRAW TO PREVENT EROSION UNTIL VEGETATION IS ESTABLISHED AND A CERTIFICATE OF COMPLIANCE IS RECEIVED FROM THE LOCAL CONSERVATION COMMISSION.
10. FINAL WETLAND REPLICATION AREA ELEVATIONS SHALL BE CERTIFIED BY THE RLA/WETLAND SCIENTIST.
11. IMPACT TO ADJACENT WETLAND AREAS SHALL BE AT A MINIMUM. STORAGE OF ANY CONSTRUCTION MATERIALS OR MACHINERY IN ADJACENT WETLAND AREAS IS PROHIBITED. USE OF HEAVY MACHINERY IN ADJACENT WETLAND AREAS IS PERMITTED FOR CONSTRUCTION OF THE REPLICATION AREA ONLY WITHIN THE LIMITS OF THE EROSION CONTROL BARRIERS. ANY ADJACENT WETLAND DISTURBED DURING CONSTRUCTION WILL BE REESTABLISHED TO ITS PRE-CONSTRUCTION CONDITION AT THE CONTRACTOR'S EXPENSE.
12. ALL SLOPES AND FILL AREAS IN BUFFER ZONE SHALL BE SEEDED AND MULCHED UPON COMPLETION OF CONSTRUCTION TO PREVENT ANY POSSIBLE IMPACT TO ADJACENT WETLAND.
13. UPON COMPLETION OF THE CONSTRUCTION PHASE OF THE WETLAND REPLICATION, THE CONTRACTOR SHALL CONTACT THE RLA/WETLAND SCIENTIST FOR AN INSPECTION. THE RLA/WETLAND SCIENTIST SHALL NOTIFY THE LOCAL CONSERVATION COMMISSION AS TO THE COMPLETION DATE.

ESTABLISHMENT & MONITORING:

1. AT THE END OF EACH GROWING SEASON, AND UNTIL COMPLIANCE WITH THE PERFORMANCE STANDARDS SET FORTH IN 310 CMR 10.55(4)(B)1-7 IS ACHIEVED, A PROGRESS REPORT SHALL BE SUBMITTED BY A REGISTERED LANDSCAPE ARCHITECT OR WETLAND SCIENTIST, TO THE LOCAL ISSUING AUTHORITY.
2. ALL WORK SHALL COMPLY WITH 310 CMR 10.55 (4)(B)1-7: WITHIN TWO GROWING SEASONS AFTER COMPLETION, AT LEAST 75% OF THE REPLICATION AREA SHALL BE ESTABLISHED WITH INDIGENOUS WETLAND PLANT SPECIES. IF AT THE END OF THE FIRST OR THE SECOND GROWING SEASON (OR BOTH), THE SUCCESS RATE IS NOT EXPECTED TO BE 75%, PLANTING AND/OR RE-SEEDING OF THE REPLICATION AREA SHALL BE UNDERTAKEN. VEGETATION MAY BE CUT OR REMOVED SELECTIVELY TO ELIMINATE NUISANCE OR INVASIVE PLANTS AND ENCOURAGE WETLAND SPECIES.

MAINTENANCE:

1. AFTER SUCCESSFUL ESTABLISHMENT OF WETLAND VEGETATION AND RECEIPT OF A CERTIFICATE OF COMPLIANCE, THE AREA SHALL BE PERMITTED TO GROW WITHOUT DISTURBANCE. NO CONTINUING MAINTENANCE IS REQUIRED, EXCEPT FOR THE POSSIBLE SELECTIVE PRUNING OR REMOVAL OF NUISANCE AND/OR INVASIVE SPECIES THAT MAY HAVE INVADED THE REPLICATION AREA.

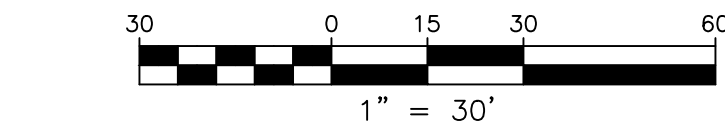
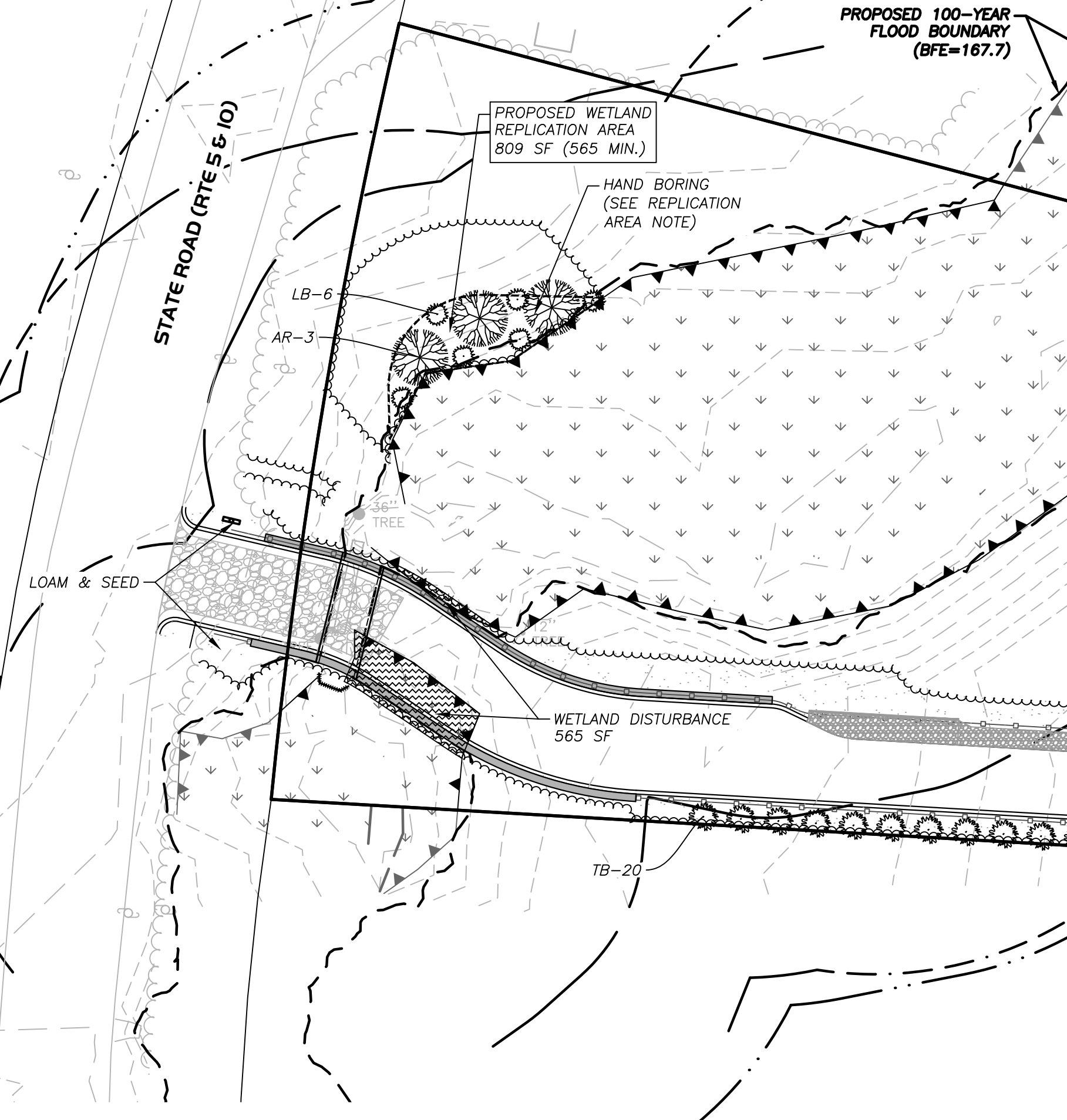
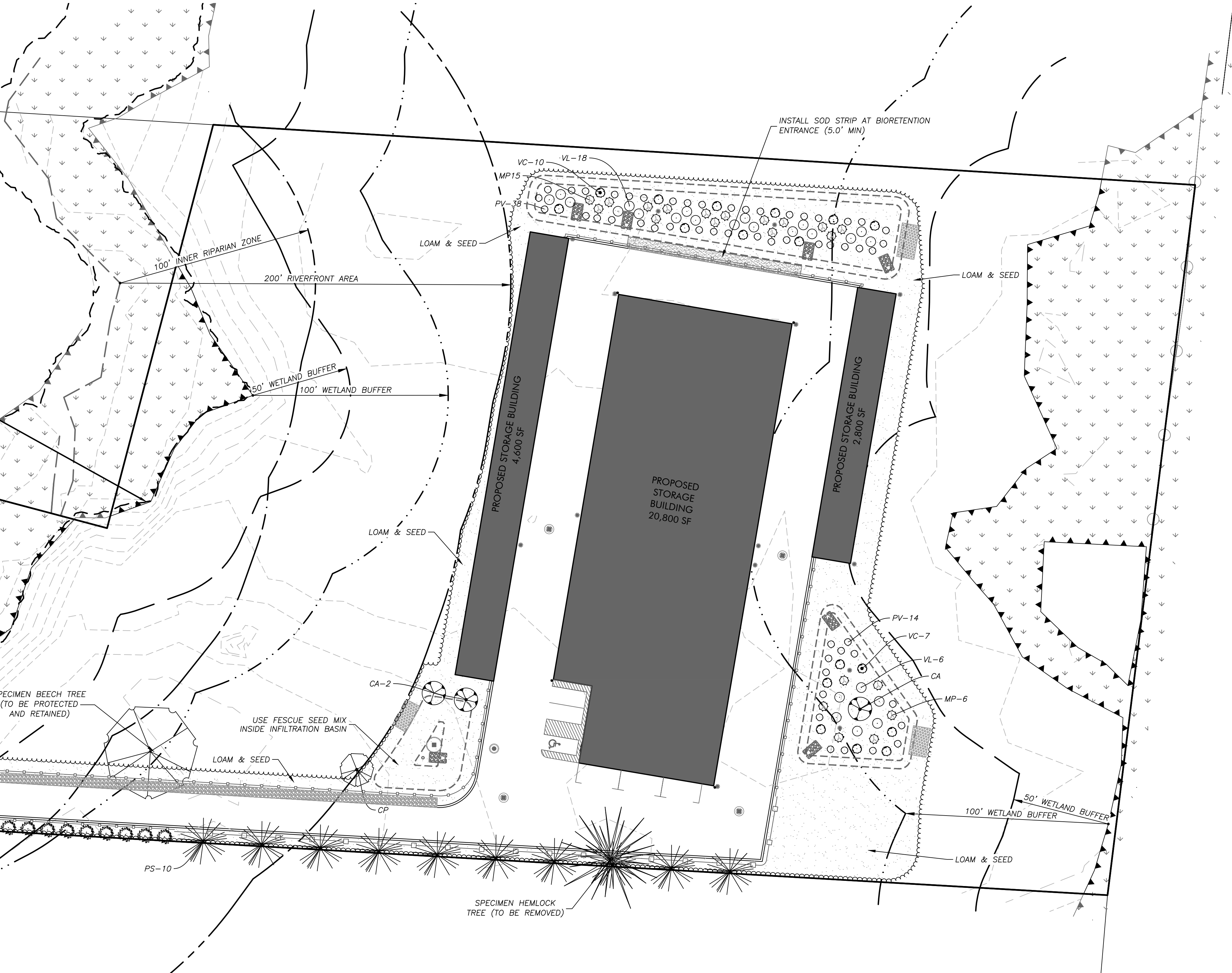
LANDSCAPE NOTES:

1. SITE CONTRACTOR SHALL REFER TO SHEET C-1, C-2, DETAIL SHEETS AND REMAINING PLAN SET FOR INFORMATION REGARDING LANDSCAPING.
2. IT SHALL BE THE SITE CONTRACTOR'S RESPONSIBILITY TO CROSS-REFERENCE INFORMATION CONTAINED IN OTHER SHEETS WITH THE LANDSCAPE INFORMATION SHOWN HEREON.
3. ALL SITE PLANTINGS ARE TO MEET OR EXCEED THE MINIMUM SPECIFICATIONS DETAILED IN THE AFOREMENTIONED NOTES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW THE SPECIFICATIONS FOR EACH INDIVIDUAL PLANTING AND SOURCE IT APPROPRIATELY.
4. PRIOR SUBMITTING THEIR BID FOR CONSTRUCTION, THE SITE CONTRACTOR SHALL COMMUNICATE ANY DISCREPANCIES BETWEEN THE PROPOSED DESIGN AND SAID SPECIFICATIONS WITH THE PROJECT PROPONENT, LANDSCAPE ARCHITECT/ENGINEER, SHOULD THE SITE CONTRACTOR FAIL TO COMMUNICATE ANY DISCREPANCIES, HE/SHE SHALL BE RESPONSIBLE FOR ANY COSTS RESULTING FROM SAID DISCREPANCY.

FROM SAID DISCREPANCY:

5. LANDSCAPE CONTRACTOR SHALL HAVE EXCAVATING CONTRACTOR, "DIGSAFE", AND ANY APPLICABLE NON-[DIGSAFE] MEMBER UTILITIES MARK ALL UNDERGROUND UTILITIES AND PRIOR TO ANY PLANTING, LANDSCAPE CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT AND PROJECT PROPONENT IF ANY CONFLICTS ARISE AND STOP ALL WORK UNTIL CONFLICT IS RESOLVED.
6. DUE TO SEASON PLANTING PROBLEMS AND LACK OF PLANT AVAILABILITY, APPROVED LANDSCAPE PLANS MAY REQUIRE MINOR REVISIONS. ALL PLANTING SUBSTITUTIONS MUST BE APPROVED BY THE TOWN OF WHATELY PLANNING BOARD STAFF.
7. BIORETENTION AREAS TO BE PLANTED PER MASSDEP STANDARDS.
8. EXISTING TREES GREATER THAN OR EQUAL TO 20" DBH AND OUTSIDE OF THE LIMIT OF CLEARING MUST BE PROTECTED IN ACCORDANCE WITH ANSI A300 STANDARDS FOR TREE CARE PRACTICES AND WHATELY CODE 350-12.3.

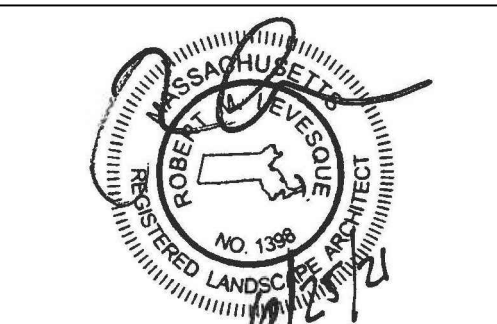
PLANT LIST				
LANDSCAPE PLANTING LIST				
KEY	QTY.	BOTANICAL NAME	COMMON NAME	SIZE/SPACING
AR	3	ACER RUBRUM	RED MAPLE	MIN. 2.5" CAL.
CP	1	CRATEAGUS PUNCTATA	OHIO PIONEER HAWTHORN	MIN. 2.0" CAL.
CA	3	CORNUS AMONUM	SILKY DOGWOOD	3-4' HT.
LB	6	LINDERA BENZOIN	NORTHERN SPICEBUSH	2'-3' HT. (>5 GAL CONTAINER)
MP	21	MYRICA PENNSYLVANICA	BAYBERRY	5 GAL.
PS	10	PINUS STROBUS	EASTERN WHITE PINE	MIN 2.5" CAL
PV	52	PANICUM VIRGATUM	INDIAN GRASS	5 GAL.
TB	20	TAXUS BACCATA 'FASTIGIATA'	IRISH YEW	2'-3' HT. (>5 GAL CONTAINER)
VC	17	VACCINIUM CORYMBOSUM	SMOOTH Highbush Blueberry	2'-3' HT. (>5 GAL CONTAINER)
VL	24	VIBURNUM LENTAGO	NANNYBERRY	5 GAL.
		LOAM AND SEED (MIN 4")		RATE PER SUPPLIER REC.



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SITE LANDSCAPING PLAN
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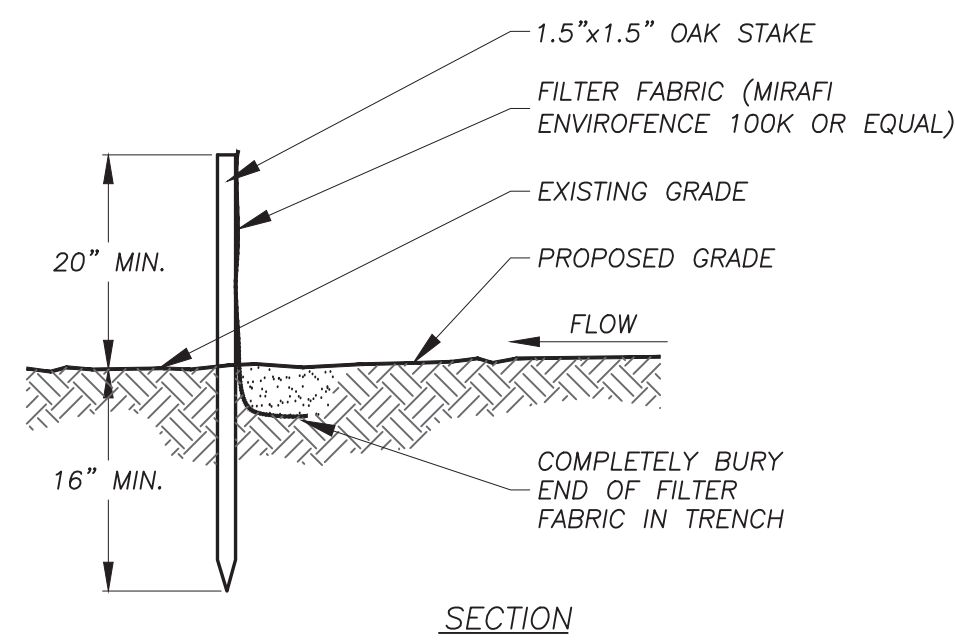
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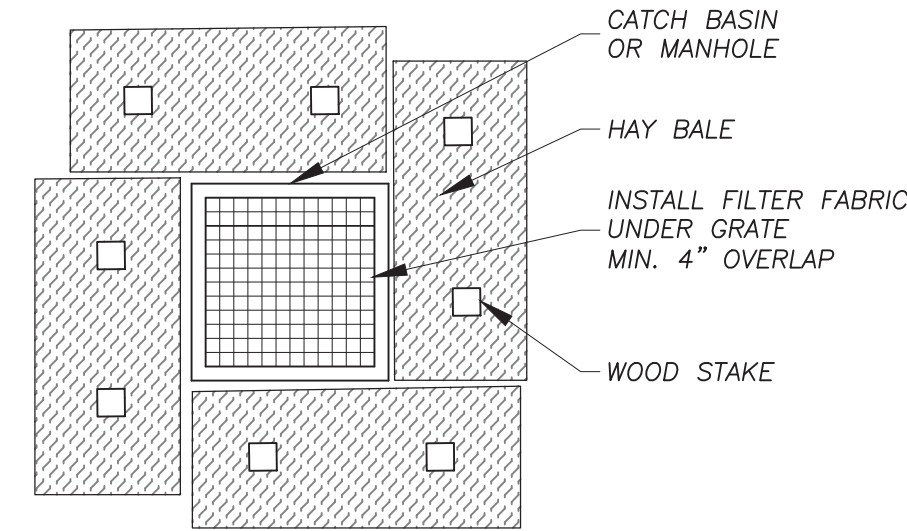
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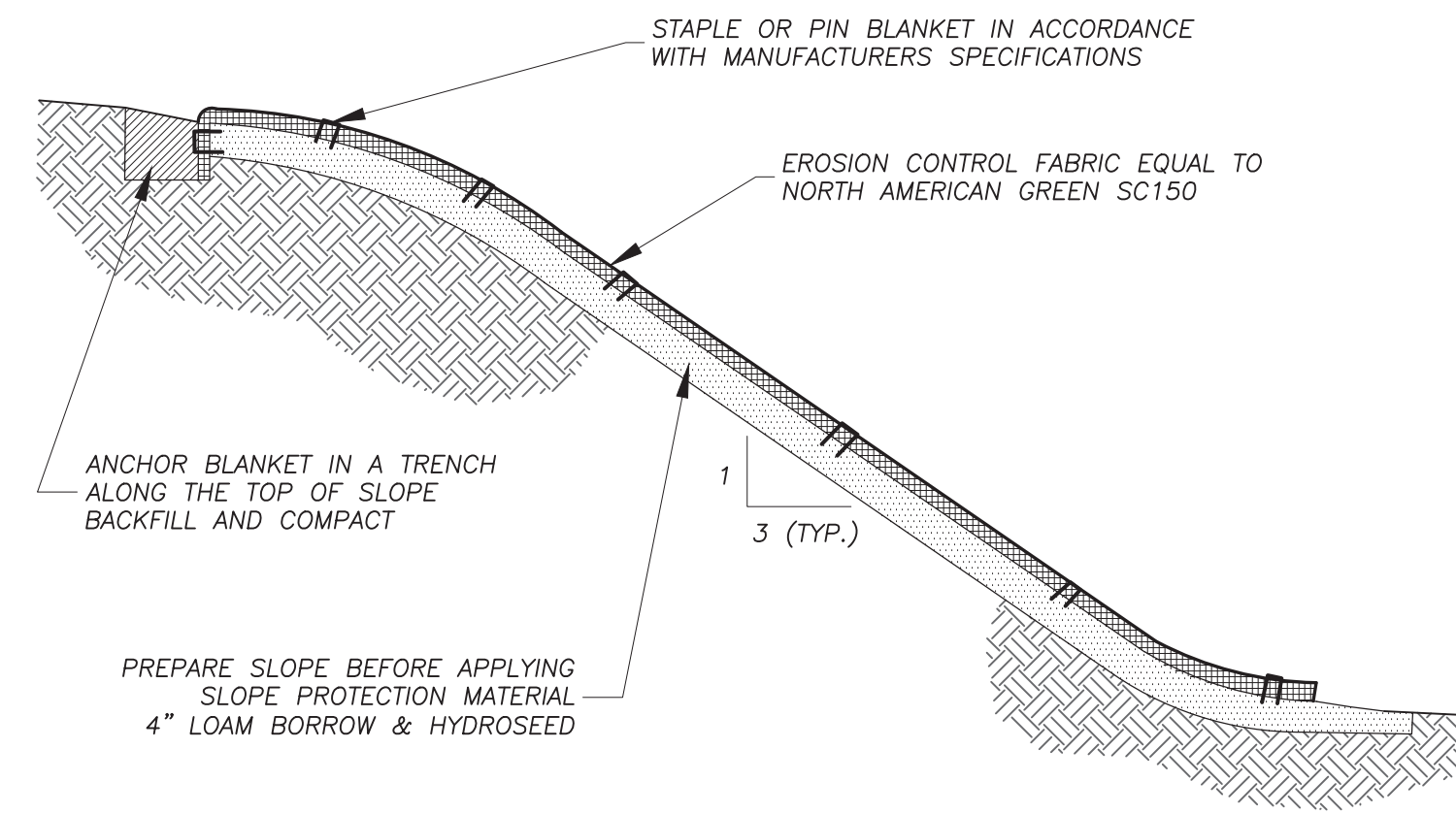


SILT FENCE DETAIL
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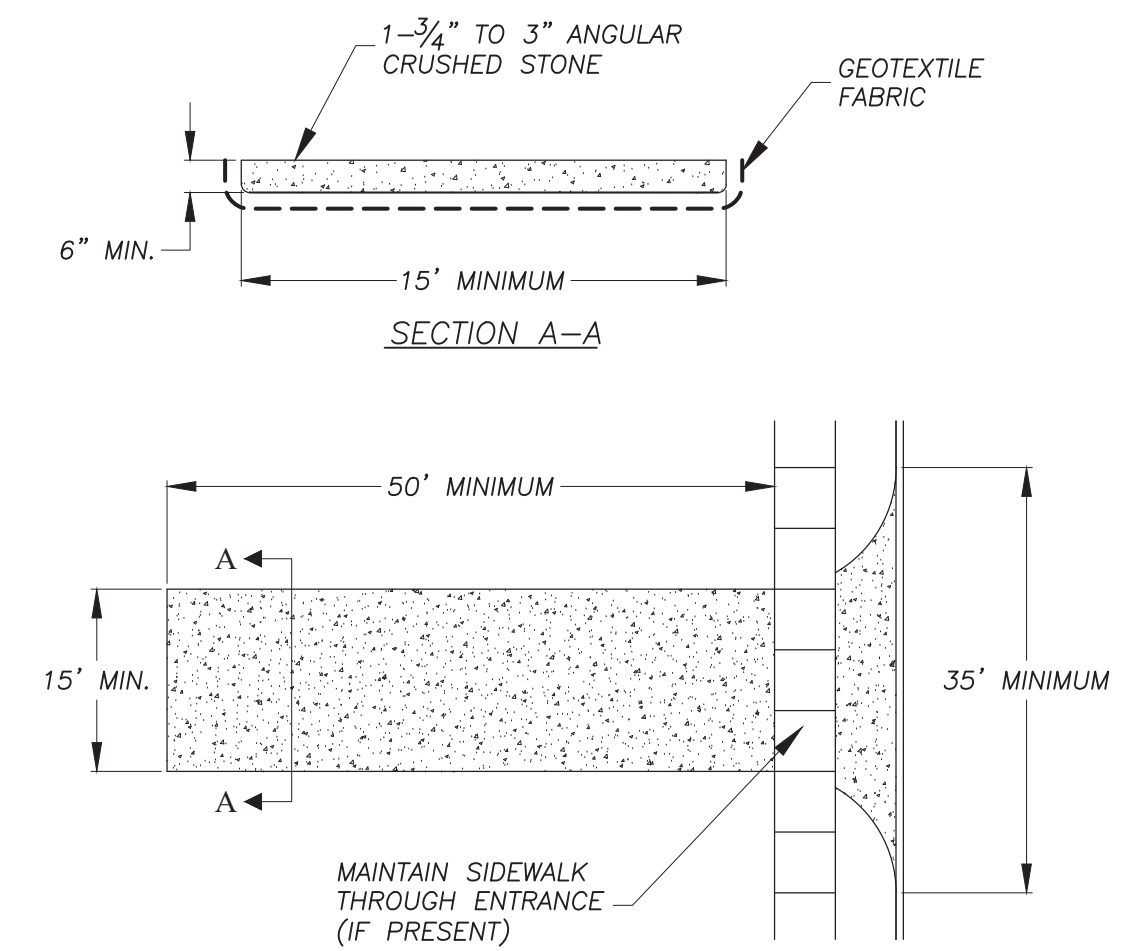


NOTE
 INSTALL BARRIER AT EACH CATCH BASIN AND DRAINAGE BASIN. CATCH BASINS IN PAVEMENT AREAS ARE TO RECEIVE ONLY THE FILTER FABRIC TREATMENT.

INLET PROTECTION - HAY BALES
 NO SCALE

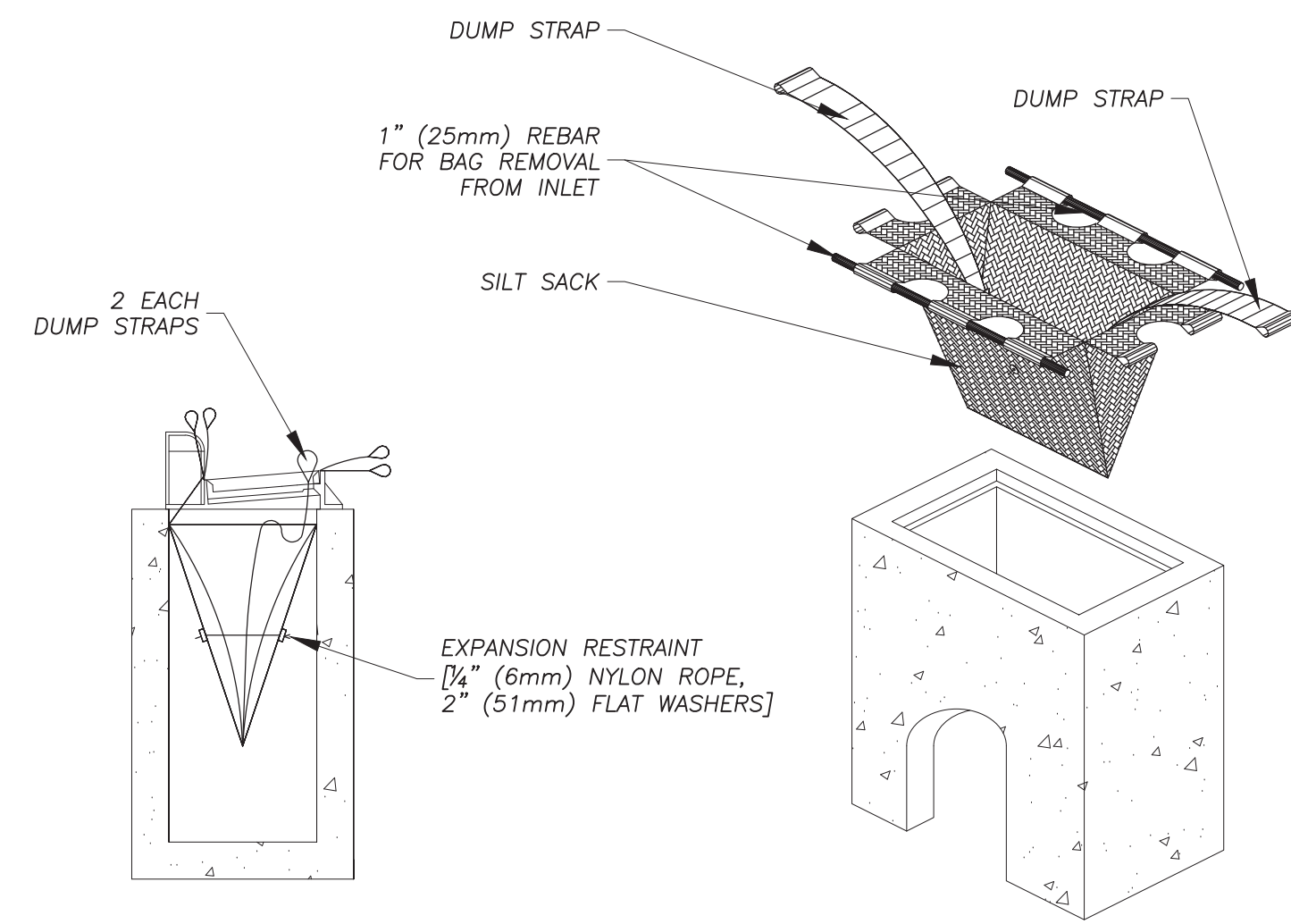


SLOPE PROTECTION MATERIAL INSTALLATION (AS REQ'D)
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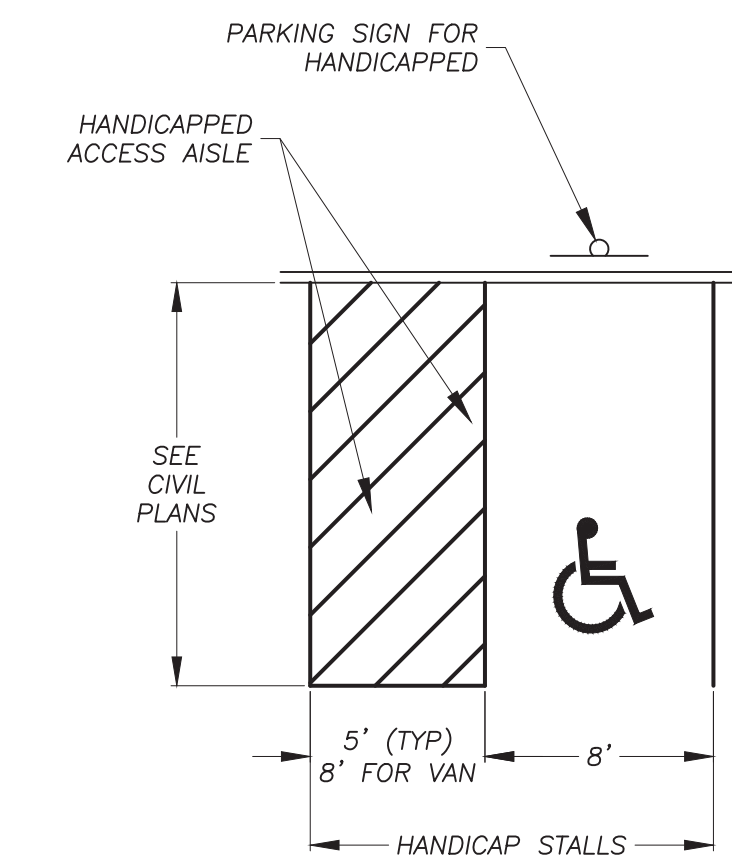


- NOTES**
- EACH SITE ENTRANCE IS TO HAVE A TEMPORARY CONSTRUCTION ENTRANCE.
 - STONE IS TO BE 1-3/4" TO 3" ANGULAR CRUSHED STONE.
 - PLACE GEOTEXTILE OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
 - ANY SEDIMENT TRACKED INTO THE ROADWAY NEEDS TO BE CLEANED IMMEDIATELY.
 - ADDITIONAL STONE IS TO BE ADDED TO THE PAD AS NEEDED TO MAINTAIN THE ORIGINAL DEPTH.
 - ANY SIDEWALK DAMAGED DURING CONSTRUCTION MUST BE REPLACED AT THE CONTRACTORS/DEVELOPERS EXPENSE.
 - SIDEWALK MUST REMAIN PASSABLE, IF THE SIDEWALK BECOMES UNSAFE OR IMPASSABLE, A TEMPORARY SIDEWALK/ SIDEWALK DETOUR MUST BE PROVIDED.

ANTI-TRACKING APRON (AS REQ'D)
 NO SCALE

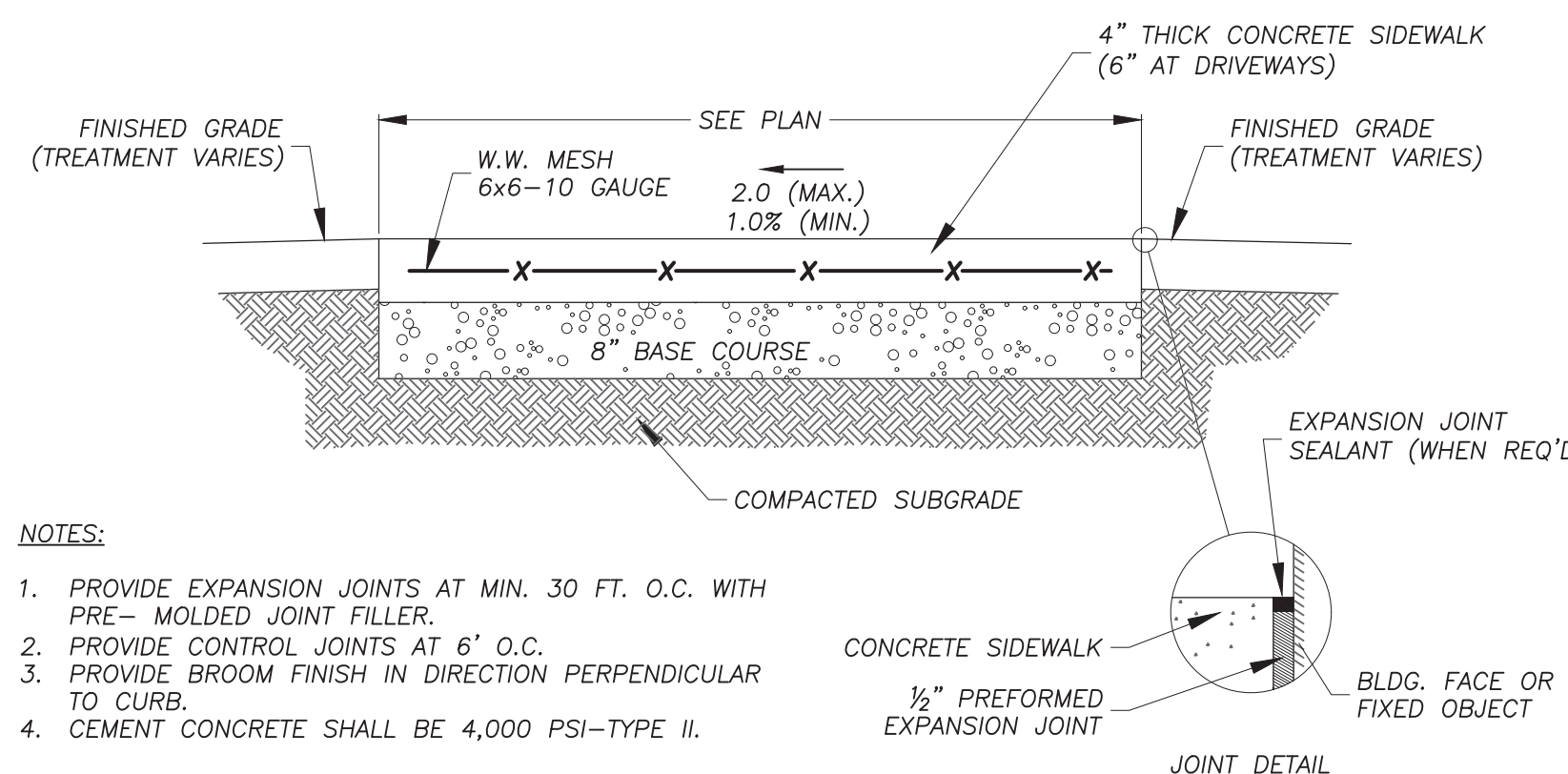


INLET PROTECTION - SEDIMENT FILTER SACK
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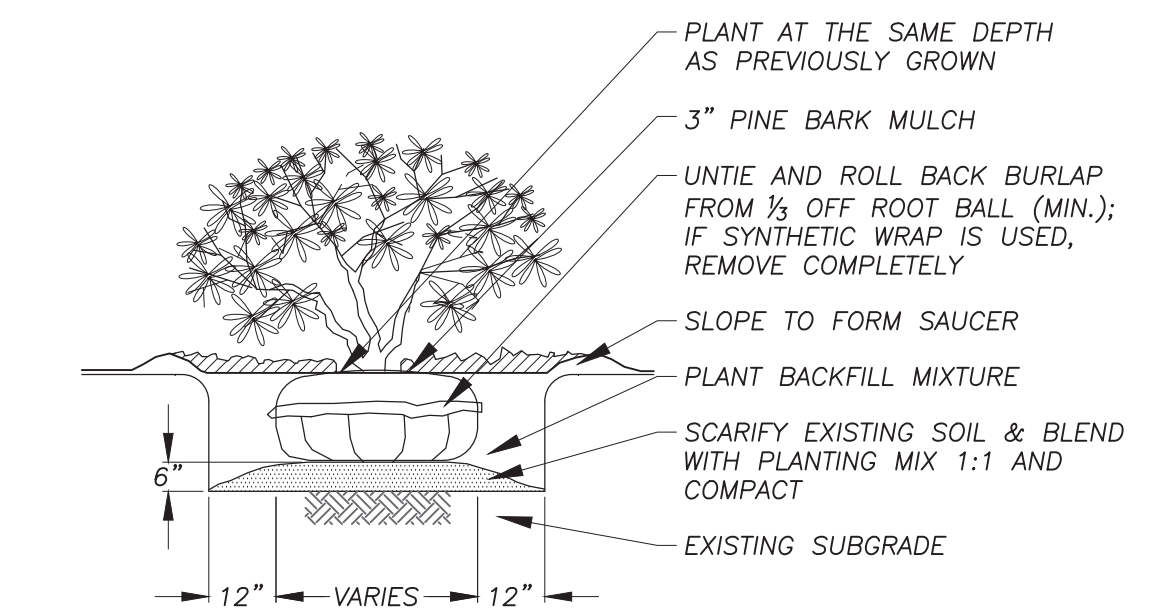
- NOTES**
- ALL DIMENSIONS TO CENTER OF 4" PAVEMENT STRIPING.
 - ALL STRIPING SHALL BE 4" SOLID WHITE PAVEMENT MARKING PAINT UNLESS OTHERWISE NOTED.
 - CONTRACTOR TO ENSURE HANDICAP ACCESSIBLE PARKING SPACE SHALL HAVE A SLOPE OF 2% OR LESS IN ALL DIRECTIONS.
 - SEE 449 S21 CMR 23.00 FOR REQUIRED NUMBER AND PROPORTION OF VAN ACCESSIBLE SPACES.

HANDICAP PARKING STALL
 NO SCALE

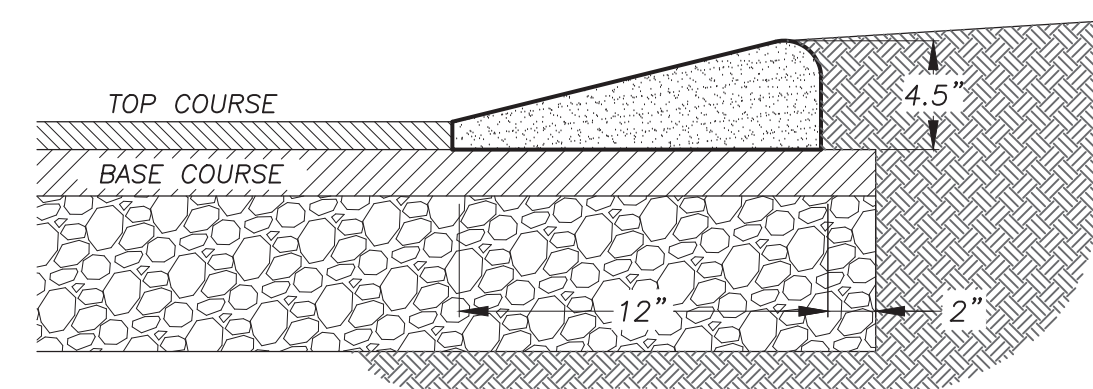


- NOTES**
- PROVIDE EXPANSION JOINTS AT MIN. 30 FT. O.C. WITH PRE-MOLDED JOINT FILLER.
 - PROVIDE CONTROL JOINTS AT 6' O.C.
 - PROVIDE BROOM FINISH IN DIRECTION PERPENDICULAR TO CURB.
 - CEMENT CONCRETE SHALL BE 4,000 PSI-TYPE II.

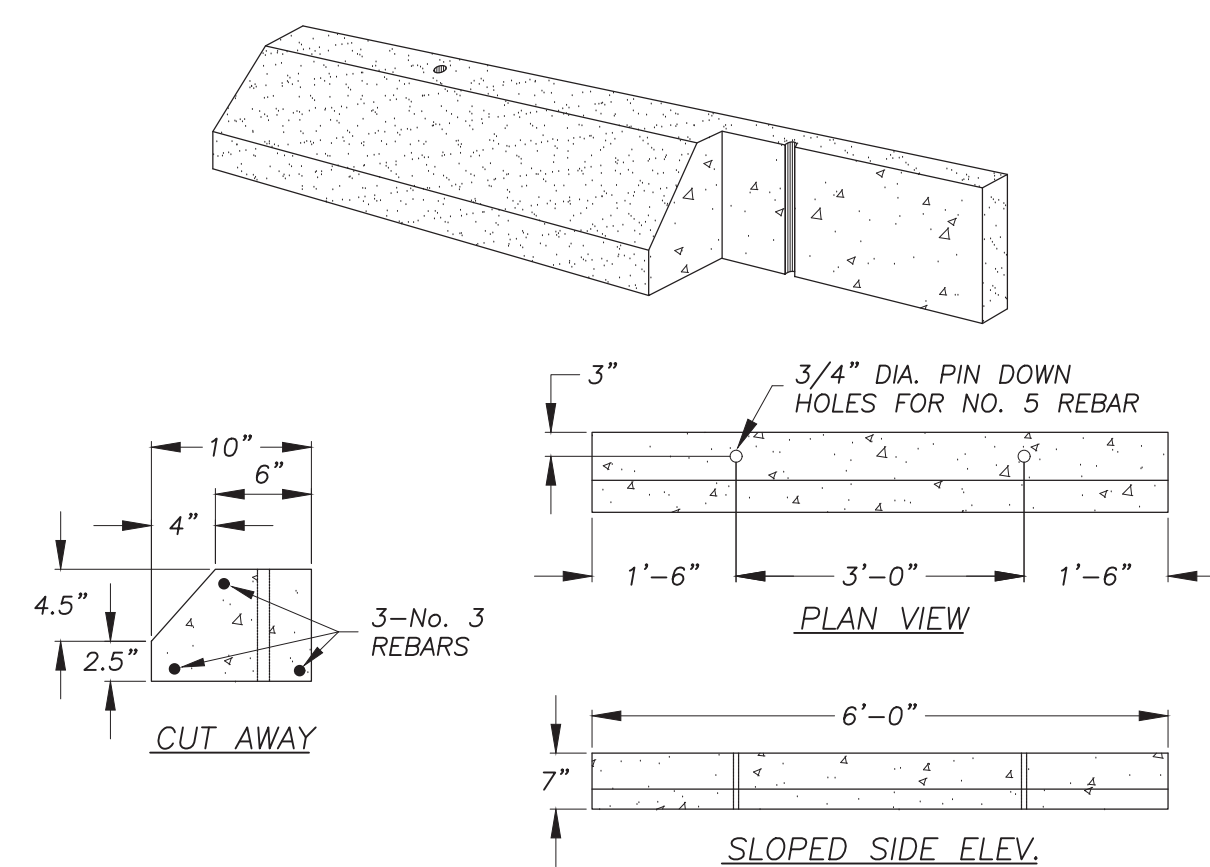
REINFORCED CONCRETE SIDEWALK SECTION
 NO SCALE



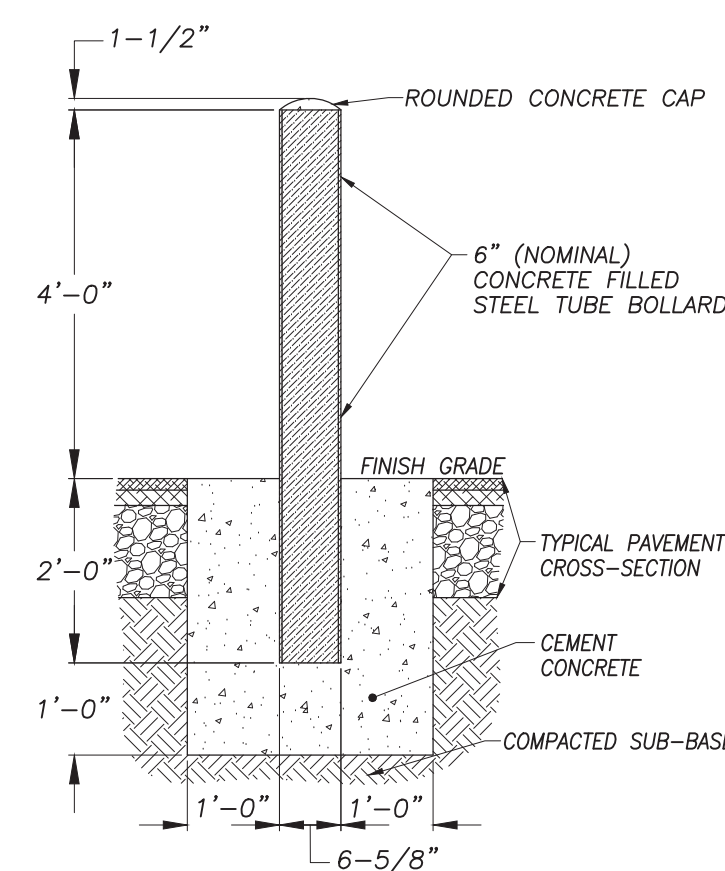
SHRUB PLANTING DETAIL
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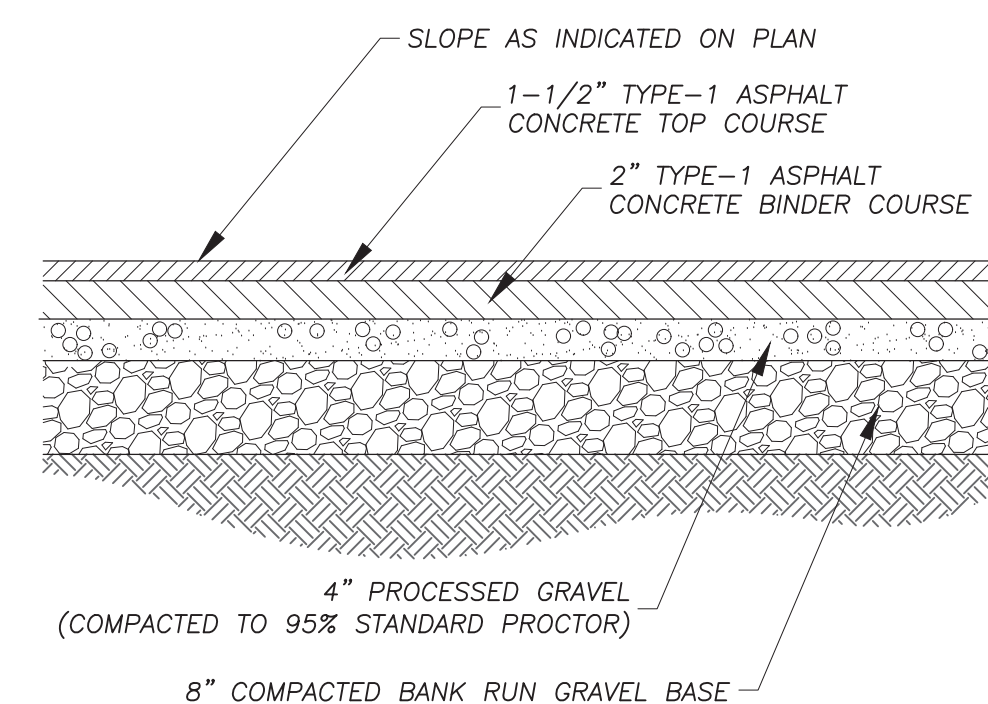
BITUMINOUS CONCRETE BERM (CAPE COD)
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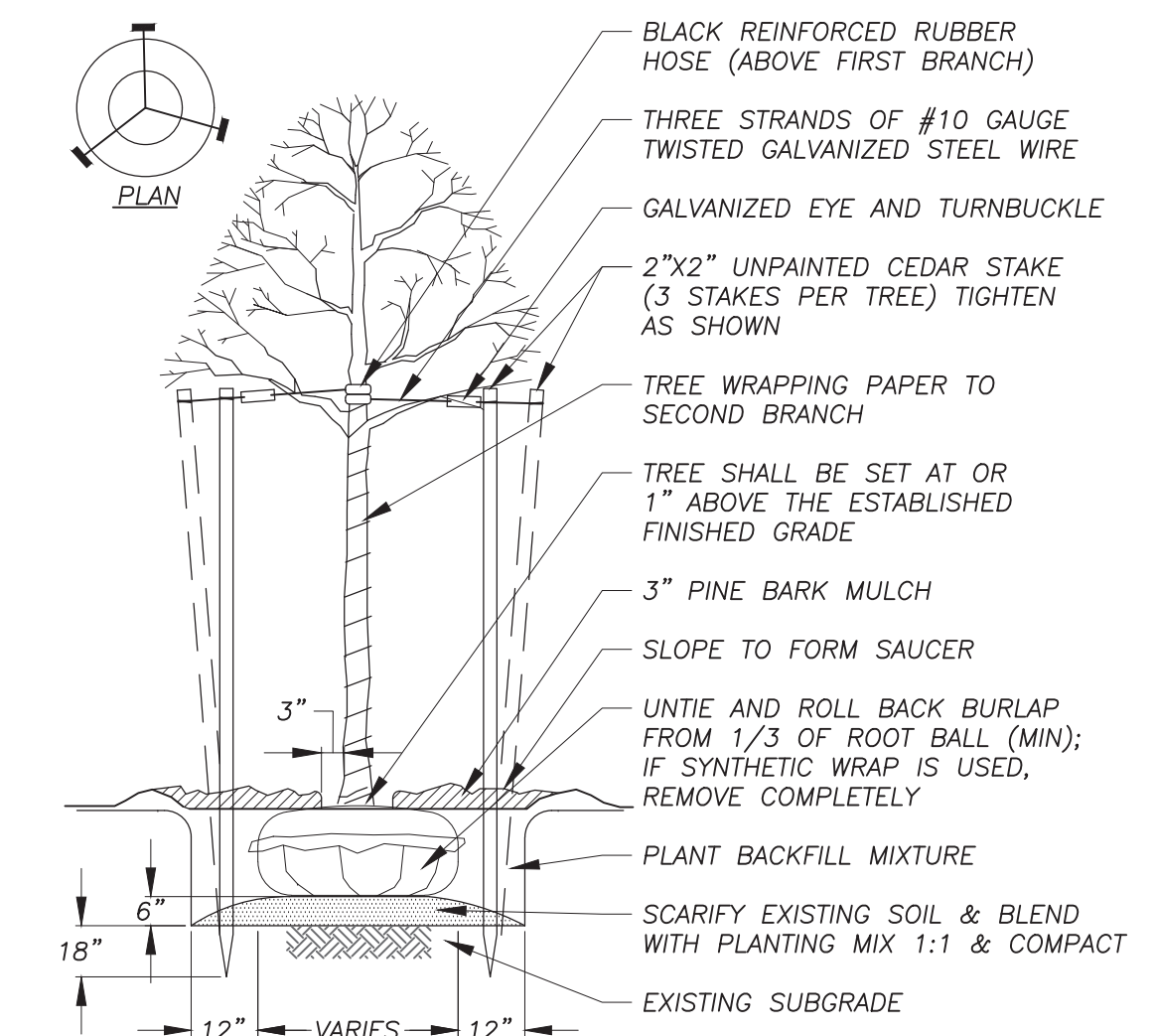
6' STANDARD SINGLE SIDE WHEEL STOP
 NO SCALE



STEEL BOLLARD DETAIL
 NO SCALE



BITUMINOUS CONCRETE PAVING DETAIL
 NO SCALE



TREE PLANTING DETAIL
 NO SCALE



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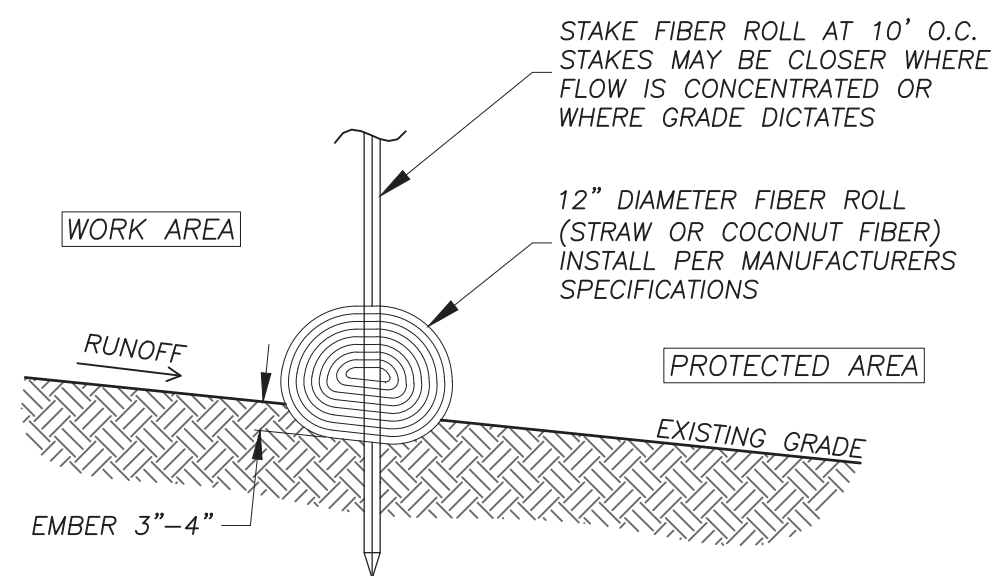
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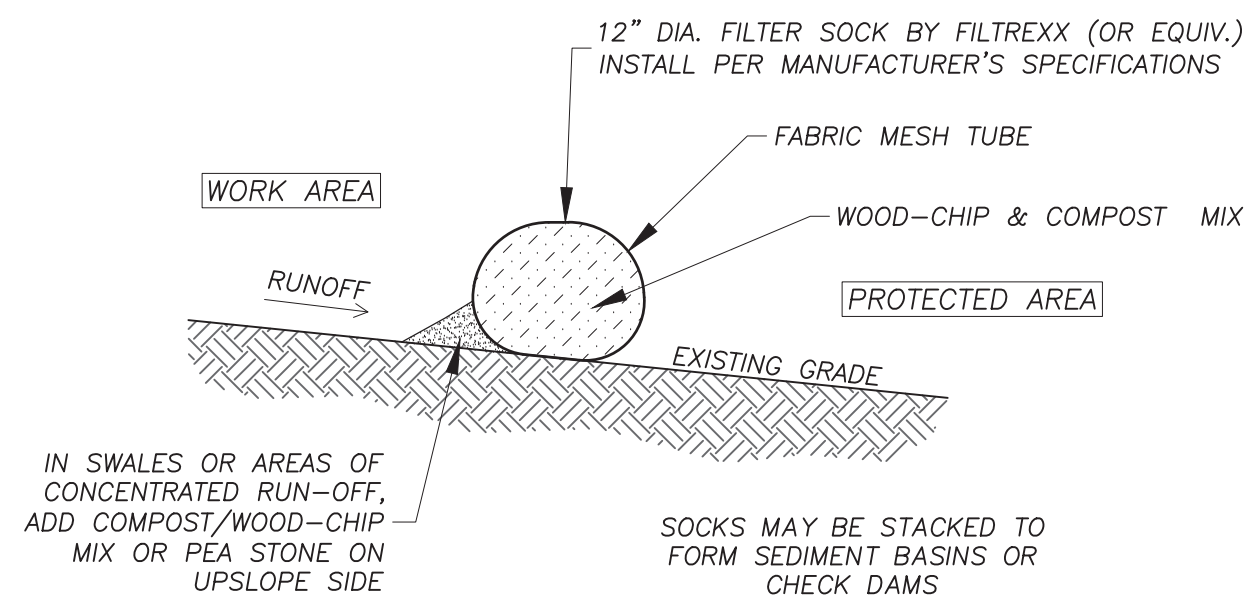
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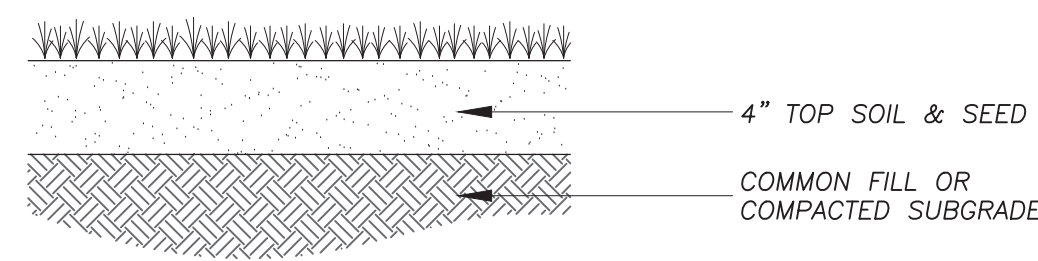
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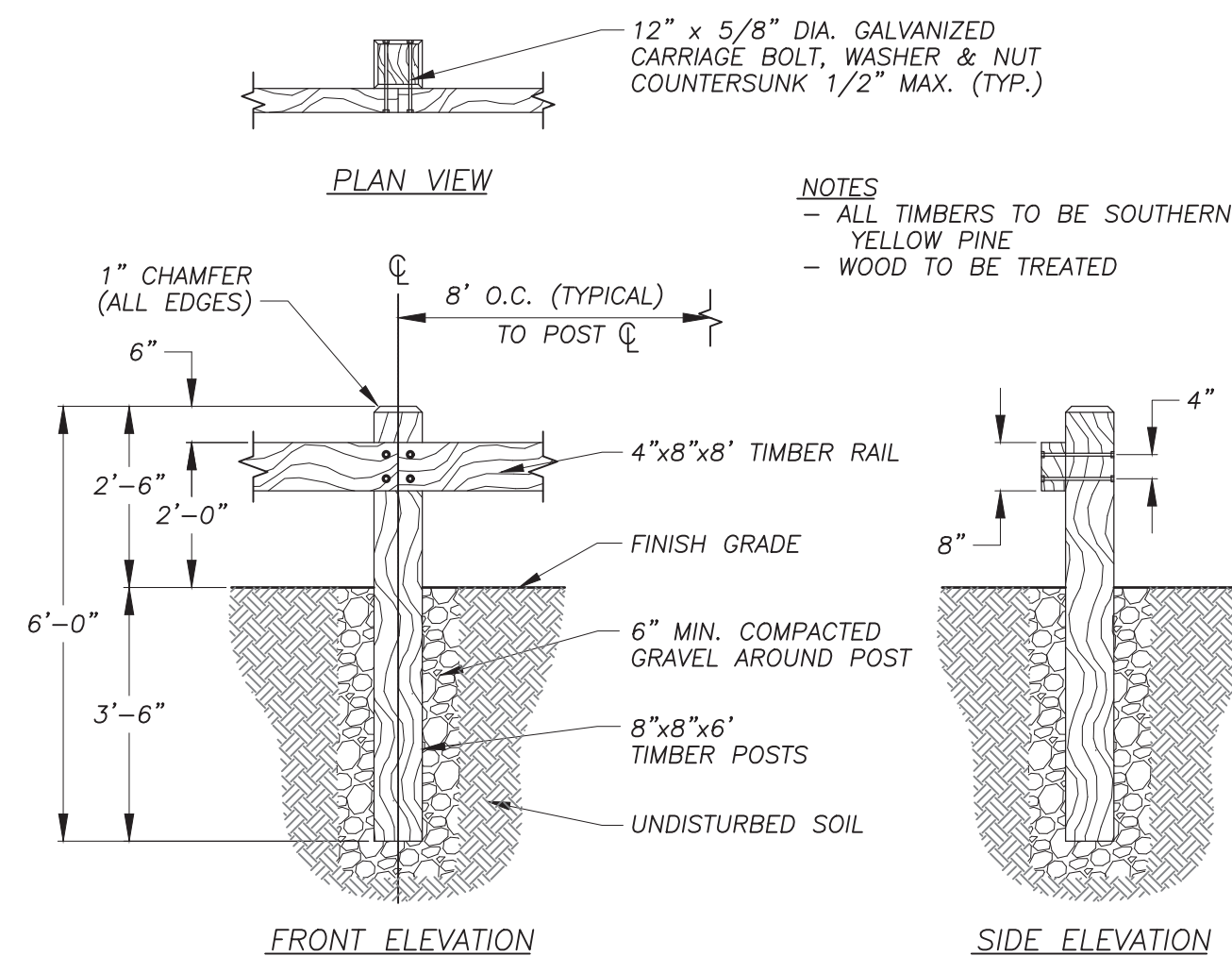
12" FIBER ROLL INSTALLATION
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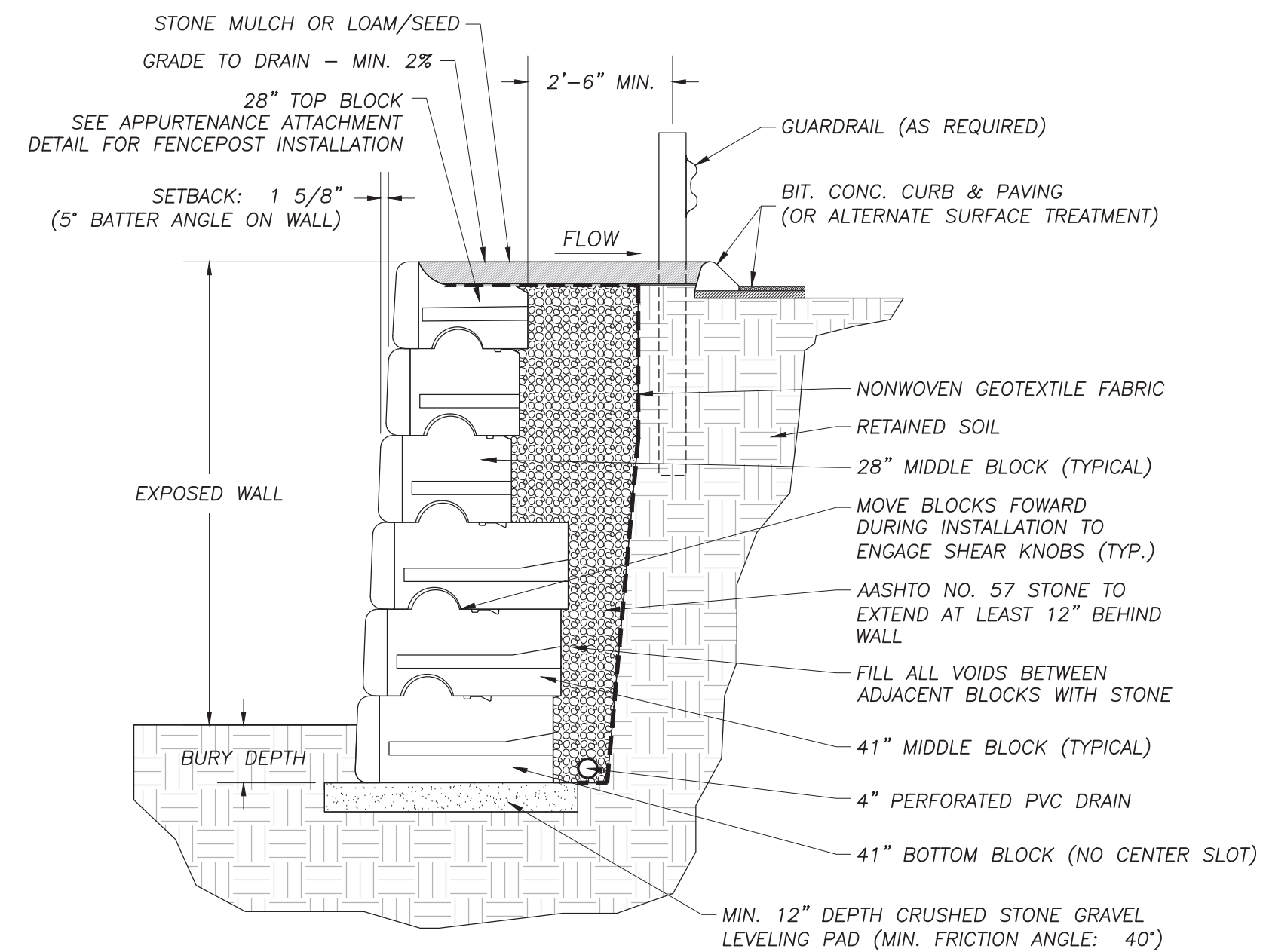
EROSION CONTROL LOG
NO SCALE



GRASSED AREA REPAIR
NO SCALE

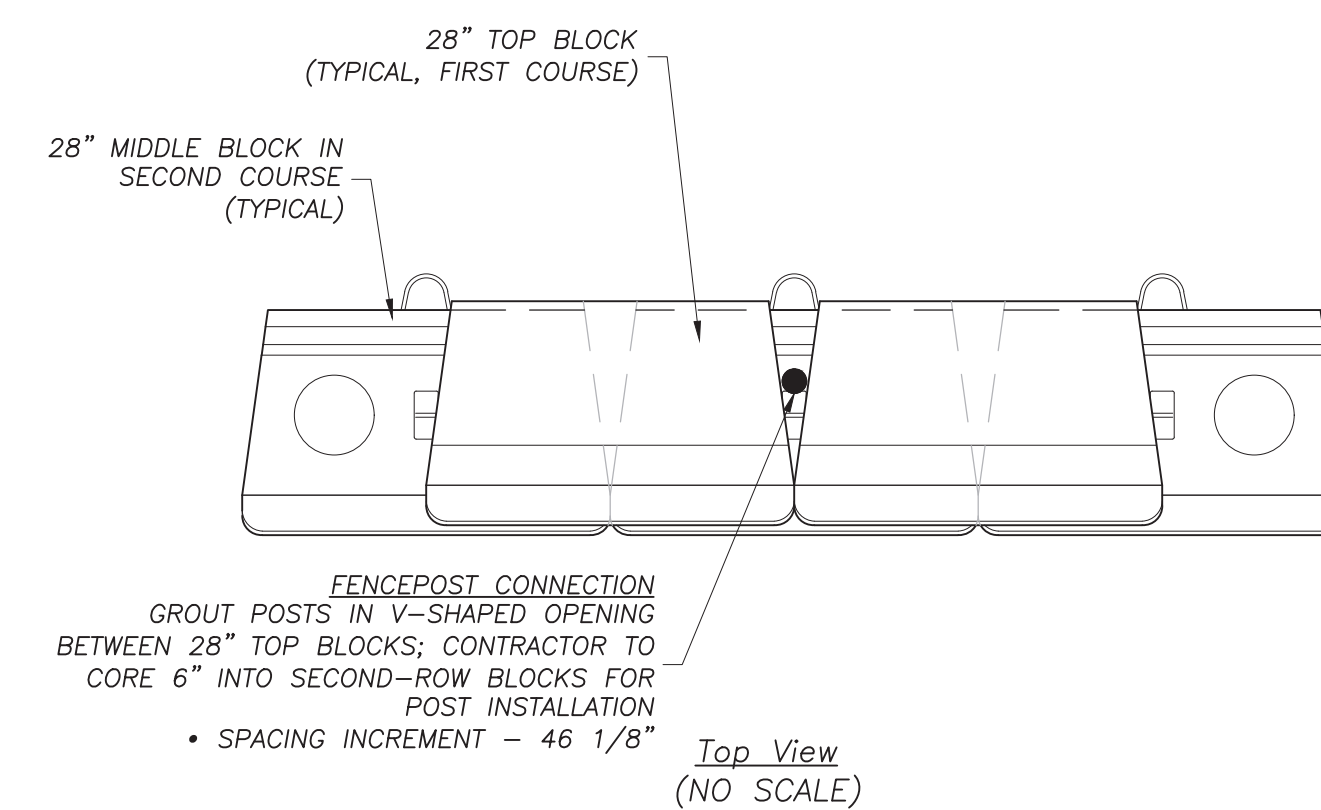
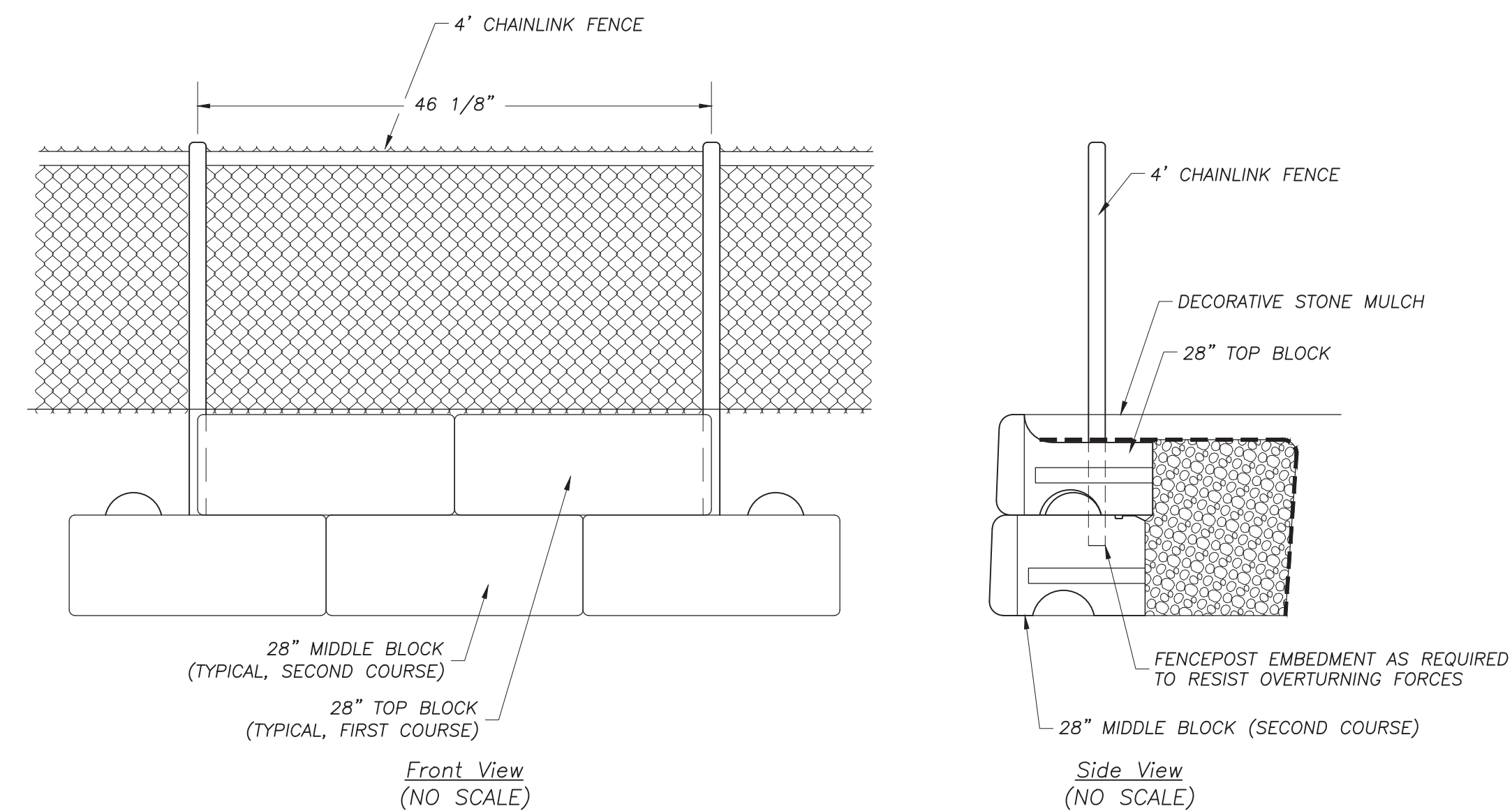


WOOD GUARDRAIL
NO SCALE



- NOTES:**
1. THIS DETAIL HAS BEEN PROVIDED FOR REFERENCE PURPOSES ONLY. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL PROVIDE FULL CONSTRUCTION DETAILS AND WALL PROFILE STAMPED BY A PROFESSIONAL STRUCTURAL ENGINEER FOR TOWN/RLA APPROVAL.
 2. THE INFORMATION SHOWN HEREON IS INTENDED TO CONVEY INFORMATION RELATED TO THE ANTICIPATED GRAVITY RETAINING WALL CONSTRUCTION UTILIZING THE SPECIFIED PRODUCT FOR BIDDING PURPOSES. GEGRID REINFORCEMENTS, CONCRETE FOOTINGS, AND OTHER SEVERE-DUTY ELEMENTS MAY BE REQUIRED DUE TO EXISTING SOILS, LOADING, WALL HEIGHT, ETC. AT THE PROPOSED SITE.
 3. FINAL WALL DETAILS MUST ADDRESS BOTH INTERNAL AND EXTERNAL DRAINAGE, DRAINAGE CONNECTIONS, AND ANY NECESSARY ACCOMMODATION FOR UTILITY CROSSINGS.
 4. FINAL WALL DESIGN AND INSTALLATION SHALL CONFORM, AT A MINIMUM, TO THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT AS REQUIRED BY STRUCTURAL ENGINEER.
- DETAIL & PRODUCT SOURCE:**
REDI-ROCK INTERNATIONAL
www.redi-rock.com

TYPICAL SECTION - SEGMENTAL PRECAST CONCRETE RETAINING WALL
NO SCALE - FOR REFERENCE PURPOSES ONLY (STRUCTURAL ENGINEER REVIEW REQ.)



- NOTES:**
- THIS DETAIL HAS BEEN PROVIDED TO COMMUNICATE TYPICAL FENCEPOST ATTACHMENT TO THE PROPOSED SEGMENTAL CONCRETE RETAINING WALL. ANY CHANGES RELATIVE TO THE LOCATION AND/OR METHOD OF SECURING FENCEPOSTS DUE TO FINAL WALL DESIGN BY STRUCTURAL ENGINEER OR PROPOSED WALL PRODUCT SUBSTITUTION MAY REQUIRE, AT THE DISCRETION OF THE TOWN OR RLA, ADDITIONAL STRUCTURAL ENGINEERING ANALYSIS (TO BE PROVIDED BY CONTRACTOR).
- DETAIL SOURCE:**
REDI-ROCK INTERNATIONAL
www.redi-rock.com

TYPICAL FENCEPOST TO RETAINING WALL ATTACHMENT
NO SCALE - FOR REFERENCE PURPOSES ONLY (STRUCTURAL ENGINEER REVIEW REQ.)

RLA

R LEVESQUE ASSOCIATES INC.

Landscape Architects
Civil Engineers - Land Surveyors
Environmental Consultants

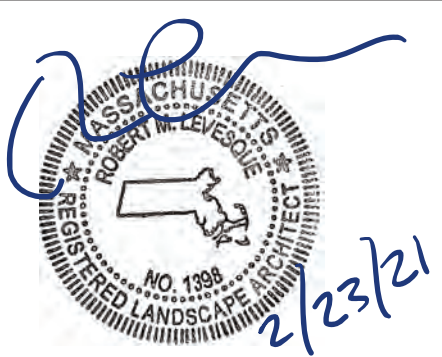
ph: 413.568.0985 fax: 413.568.0986

40 School Street
Westfield, MA 01085

rlaland.com

DETAILS

State Road
Whately, MA
Map 5 Parcel 29



PREPARED FOR:

Todd Cellura
Sovereign Builders

135 Southampton Rd
Westhampton, MA 01027

ISSUANCE DATE: February 23, 2021

REVISIONS: DATE:

DRAFTED BY: R.N. & C.K.

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SCALE: AS NOTED

RLA PROJ. NUMBER: 200912

DRAWING# REV.

D-2

PERMITTING

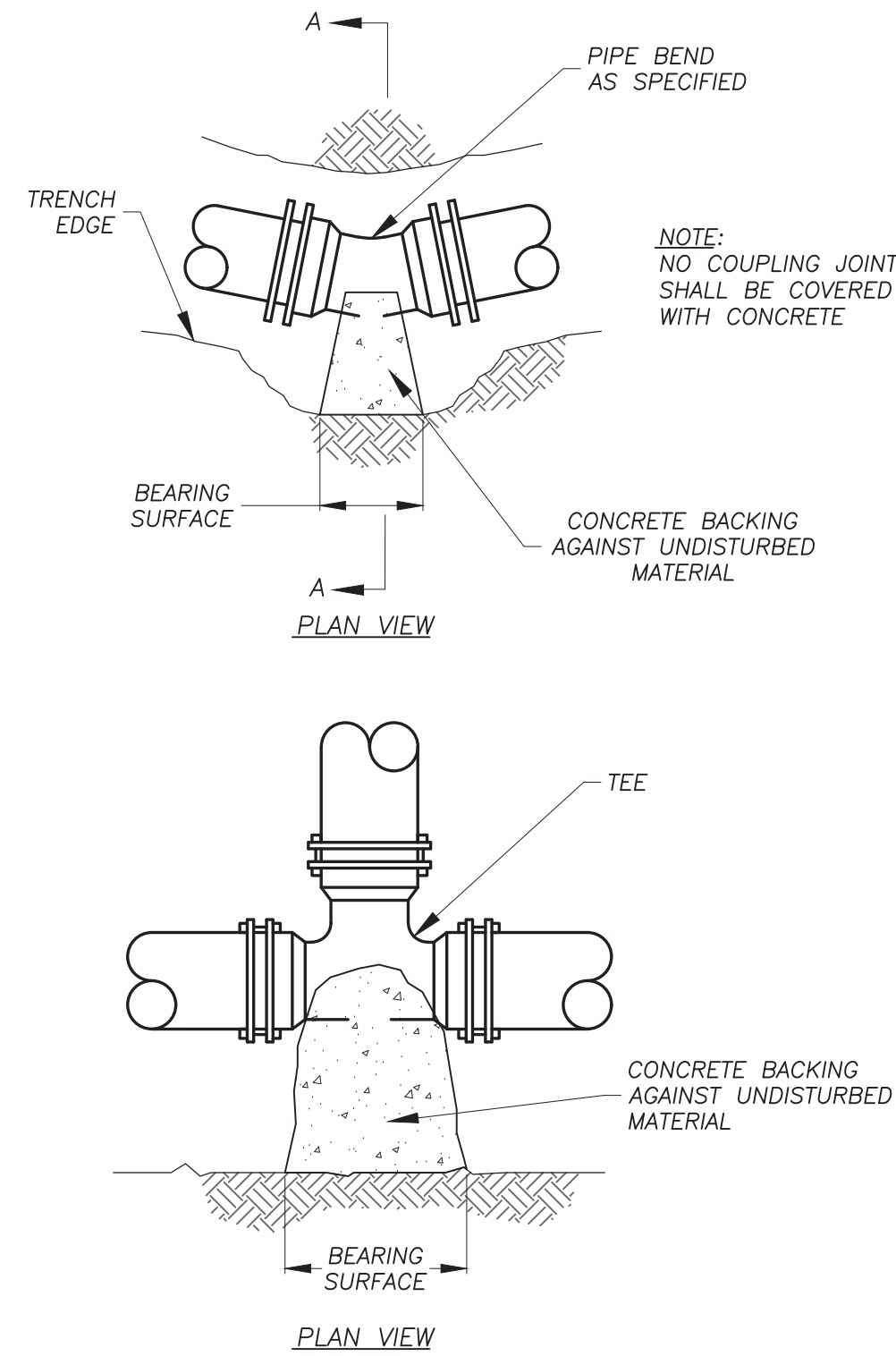
PIPE RESTRAINT SCHEDULE FOR GROUND BURIED PRESSURE PIPES									
DEFLECT. ANGLE PIPE	LENGTH OF RESTRAINT REQ'D (FEET)								
	2 1/2"	3 3/4"	4 5/8"	6 1/2"	7 7/8"	9 1/4"	11 1/4"	14 1/4"	18 1/4"
6"	3	6	11	16	23	29	37	2.0	5.0
8"	4	8	15	22	31	41	50	3	9.0
10"	5	11	18	28	38	49	61	4.0	14.0
12"	6	13	22	33	45	59	73	6.0	20.0
14"	7	14	25	37	52	68	84	8.0	28.0
16"	8	16	28	42	59	77	95	11.0	36.0
18"	8	18	31	47	66	86	107	14.0	46.0
20"	9	20	35	53	73	95	118	17.0	57.0
24"	11	23	40	61	85	111	138	24.0	81.0
30"	13	29	50	75	105	136	170	37.0	127.0
36"	15	34	59	88	123	160	199	54.0	183.0
42"	17	39	67	101	141	184	223	73.0	250.0
48"	19	43	75	113	157	206	255	96.0	326.0

- THIS TABLE IS BASED ON A TEST PRESSURE OF 180 PSI (OPERATING PRESSURE + WATER HAMMER). FOR OTHER TEST PRESSURES, ALL VALUES TO BE INCREASED OR DECREASED PROPORTIONALLY.
- IN EACH DIRECTION FROM POINT OF DEFLECTION EXCEPT FOR TEE AT WHICH ONLY THE BRANCH IN THE DIRECTION OF THE TEE STEM.
- IF TIE RODS ARE USED, USE 4 RODS MINIMUM AND ADD 1/2" TO BAR DIA AS CORROSION ALLOWANCE.

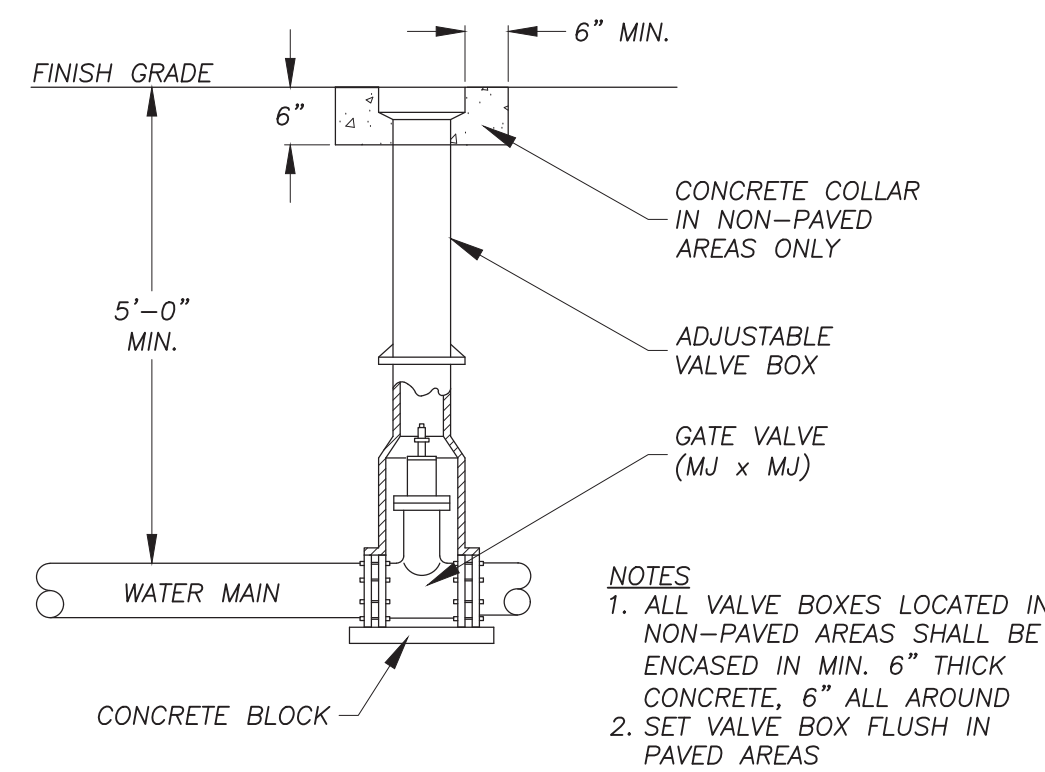
PIPE SIZE (INCHES)	MINIMUM AREA OF BEARING FACE OF CONCRETE THRUST BLOCKS IN SQUARE FEET		
	SOIL BEARING 1,000 LBS./SQ. FT.	2,000 LBS./SQ. FT.	4,000 LBS./SQ. FT.
DEAD END, TEE OR HYDRANT			
4 OR LESS	6	3	2
6	11	6	3
8	20	10	5
12	34	17	9
16	60	30	15
1/4 BEND - 90°			
4	8	4	2
6	16	8	4
8	28	14	7
12	56	28	14
16	100	50	25
1/8 BEND - 45°			
4	4	2	1
6	9	4	2
8	14	7	4
12	32	16	8
16	60	30	15
1/16 BEND - 22 1/2° OR LESS			
4	2	1	1
6	4	2	1
8	8	4	2
12	15	8	4
16	30	15	8

NOTES: THRUST BLOCKS

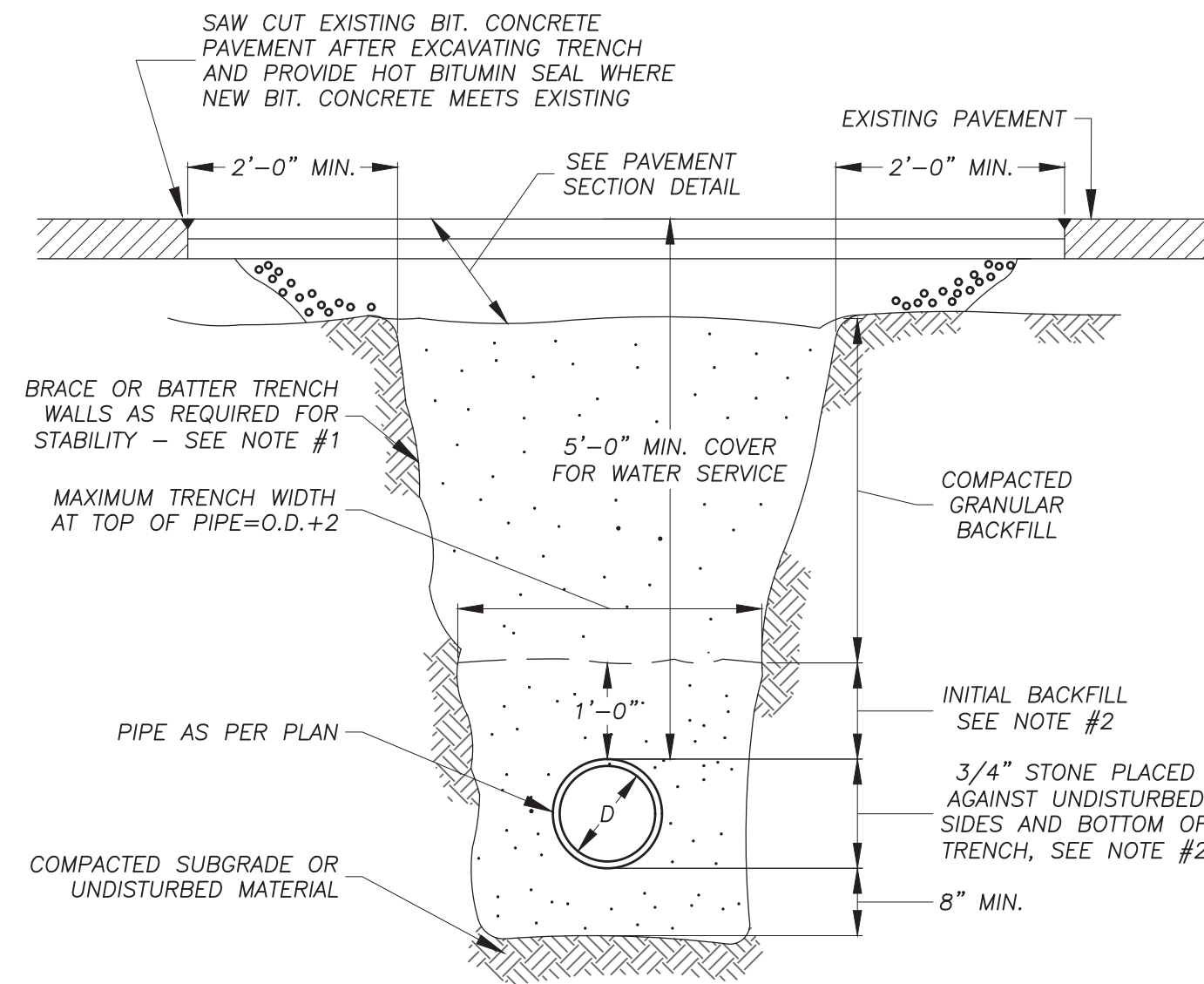
- FIGURES BASED ON 300 PSI OPERATING PLUS SURGE PRESSURE
- CONCRETE SHALL NOT BE DUMPED OVER THE FITTING, THE BLOCK MUST BE FORMED
- RETAINING RODS OR RESTRAINED JOINT PIPE AS APPROVED BY THE ENGINEER MAY BE USED IN PLACE OF THRUST BLOCKS
- PLACE 15 LB ROOF FELT BETWEEN PIPE AND CONCRETE
- CONCRETE SHALL NOT COVER PIPE JOINTS
- ALL BENDS, TEES, HYDRANTS AND DEAD ENDS SHALL BE BRACED WITH CONCRETE THRUST BLOCKS OR SUITABLE RESTRAINING DEVICES
- BEARING AREA IS AREA OF CONCRETE IN CONTACT WITH WALL OF TRENCH = H x L
- HEIGHT (H) AND LENGTH (L) AS REQUIRED TO OBTAIN AREA IN TABLE. LENGTH TO BE 2 TIMES HEIGHT
- ESTIMATED SOIL BEARING LOAD IS 2000 LBS



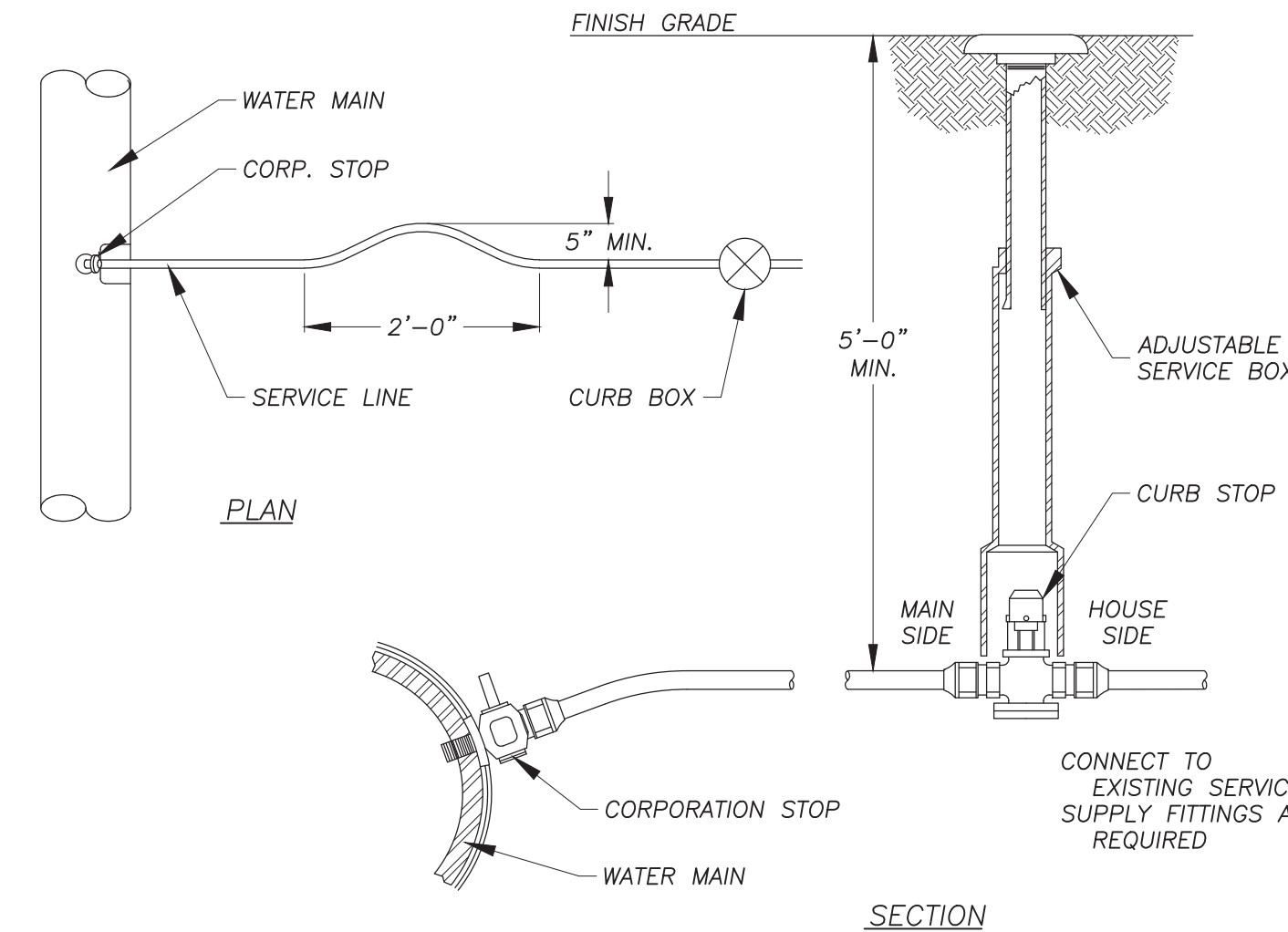
WATER MAIN · HORIZONTAL THRUST BLOCK DETAILS
NO SCALE



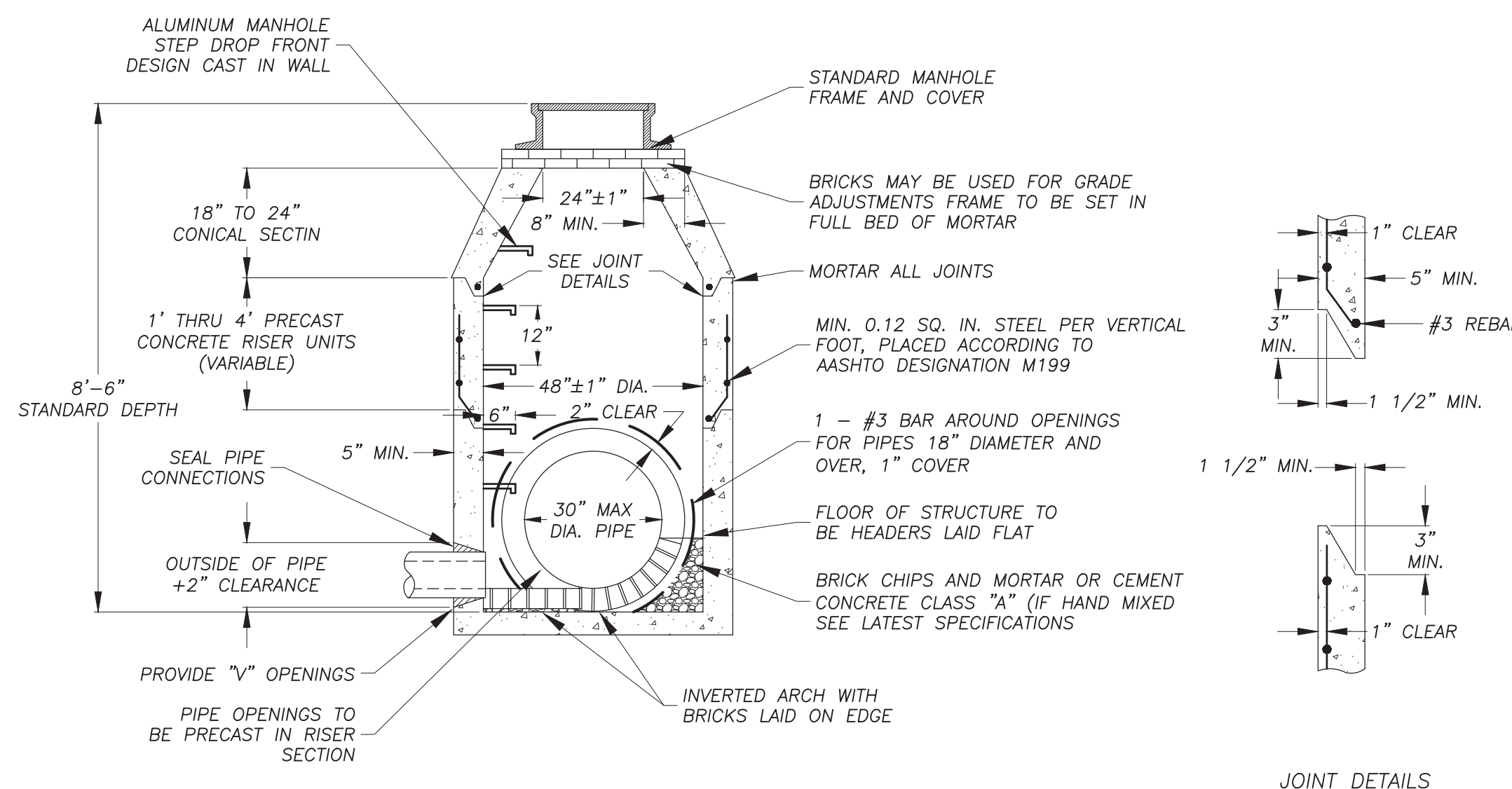
TYPICAL BURIED VALVE
NO SCALE



PIPE TRENCH DETAIL (STANDARD)
NO SCALE



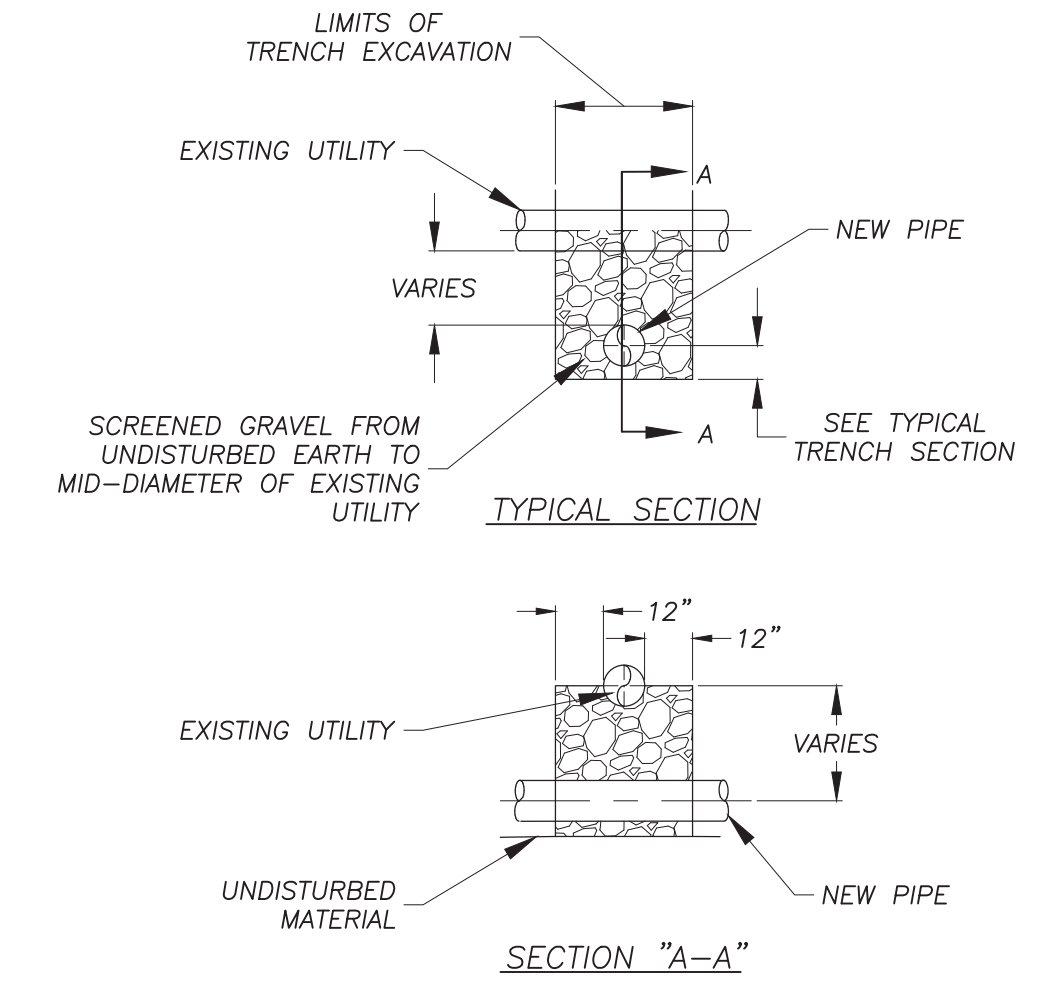
TYPICAL WATER SERVICE CONNECTION
NO SCALE



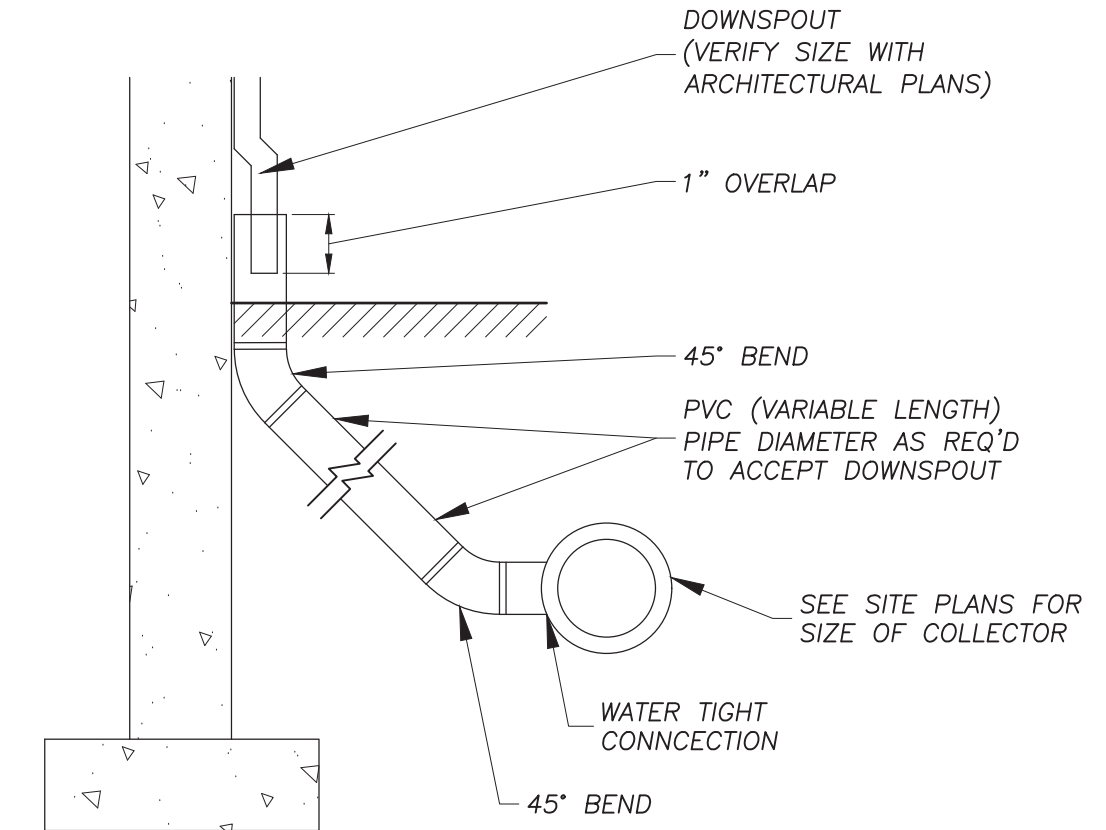
PRECAST CONCRETE MANHOLE
NO SCALE

TRENCH NOTES

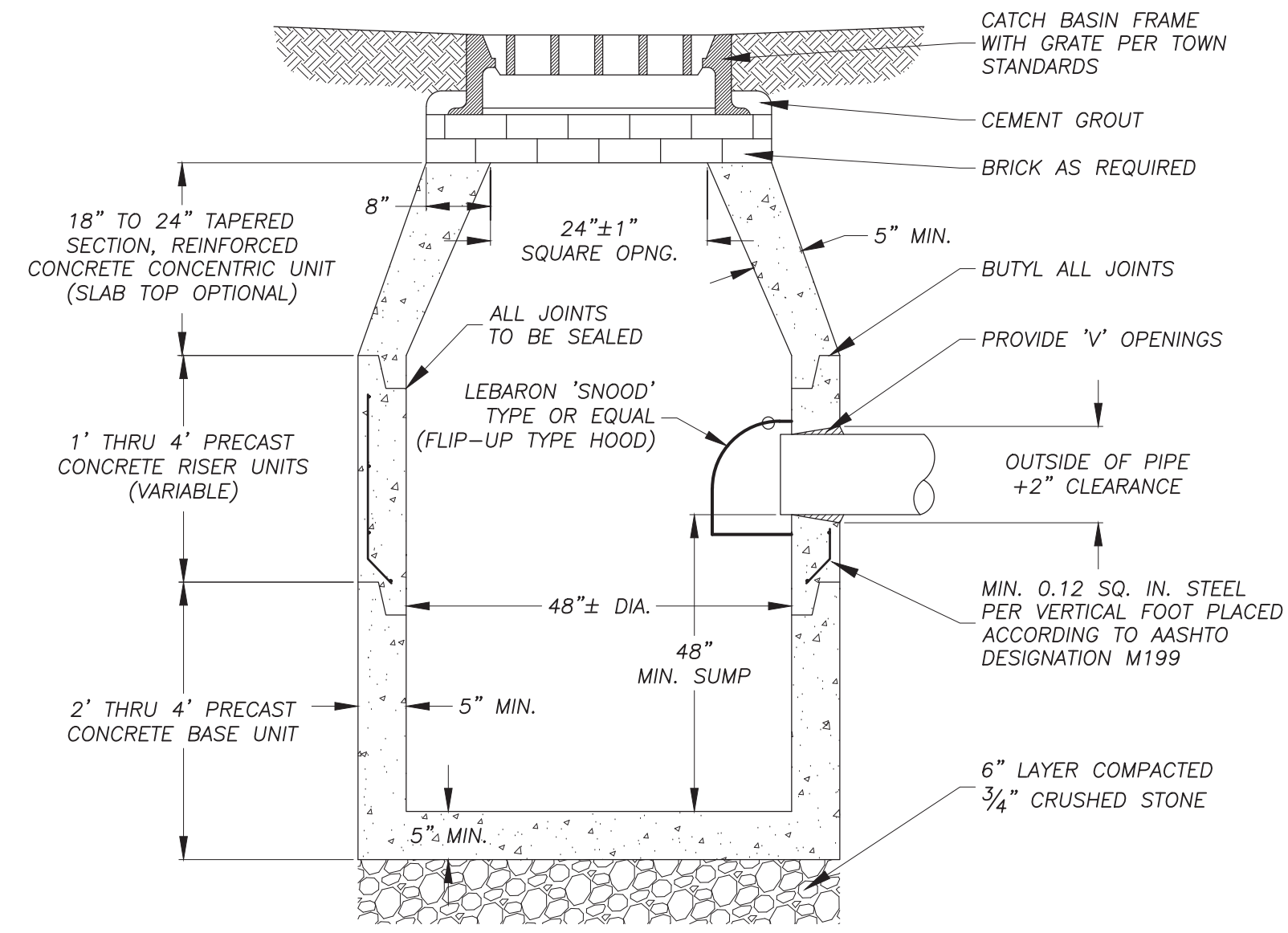
- SHEETING, WHEN REQUIRED TO BE CUT OFF AT LEAST 5 FT. BELOW STREET AND A MINIMUM OF 1 FT. ABOVE TOP OF PIPE. WOOD SHEETING DRIVEN BELOW MID-DIAMETER OF THE PIPE SHALL BE LEFT IN PLACE. STEEL SHEETING DRIVEN BELOW MID-DIAMETER MAY BE WITHDRAWN IF APPROVED IN WRITING BY THE ENGINEER. FOR P.V.C. PIPE, ALL SHEETING DRIVEN BELOW MID-DIAMETER SHALL BE LEFT IN PLACE.
- SELECTED COMMON FILL, HAND PLACED, FROM MID-DIAMETER OF PIPE TO 12" ABOVE, TOP OF PIPE.
- TRENCHES LOCATED ON THE ROAD SHOULDER SHALL BE TREATED THE SAME AS STREET EXCEPT FOR PAVING.
- PROVIDE AT LEAST ONE IMPERVIOUS DAM IN GRAVEL BEDDING BETWEEN EACH MANHOLE WHERE DIRECTED, OR EVERY 300 FT., WHICHEVER IS LESS.
- COMPACT ALL BACKFILL MATERIAL WITH VIBRATORY PLATE EQUIPMENT (MINIMUM TWO PASSES) TO A MINIMUM DENSITY OF 95 PERCENT OF THE STANDARD PROCTOR DENSITY AS DETERMINED BY ASTM D698.
- PLACE BACKFILL MATERIALS IN MAXIMUM ONE FOOT LIFTS.



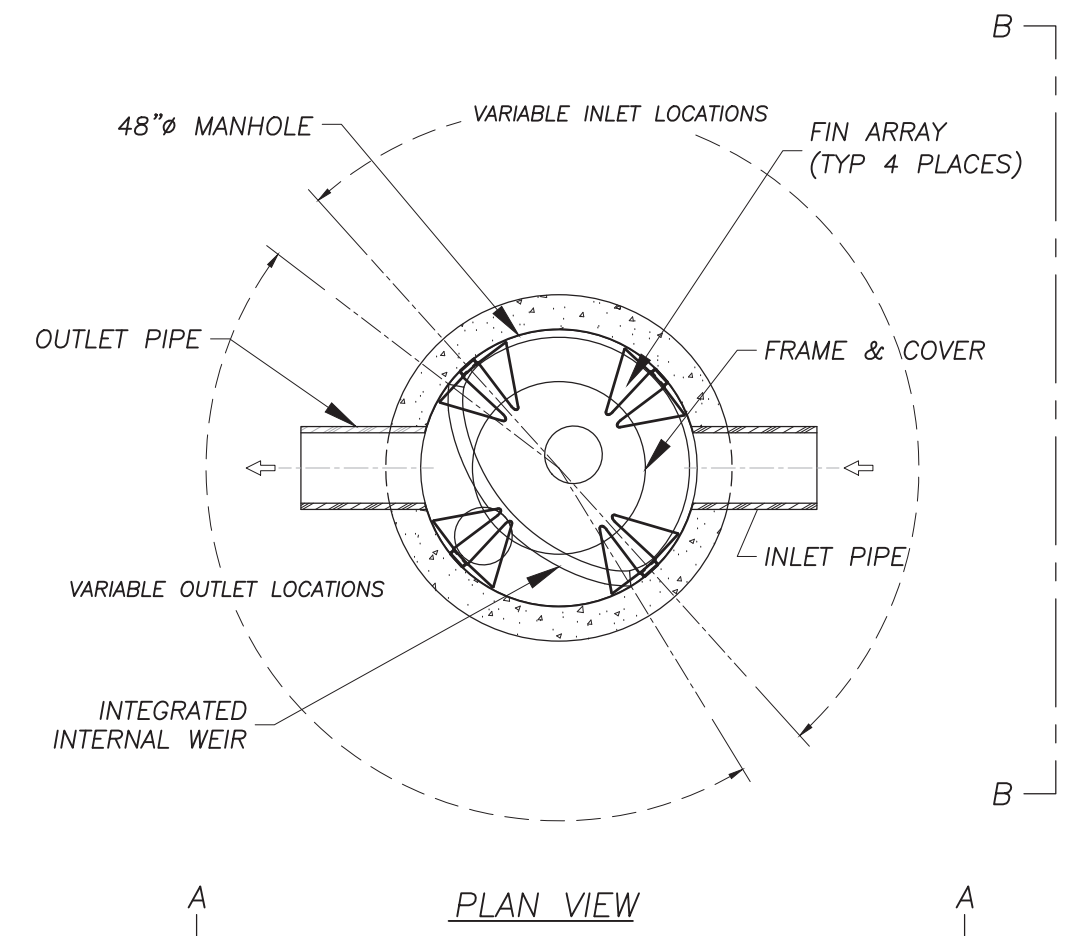
UTILITY CROSSING DETAIL
NO SCALE



DOWNSPOUT COLLECTOR DETAIL
NO SCALE

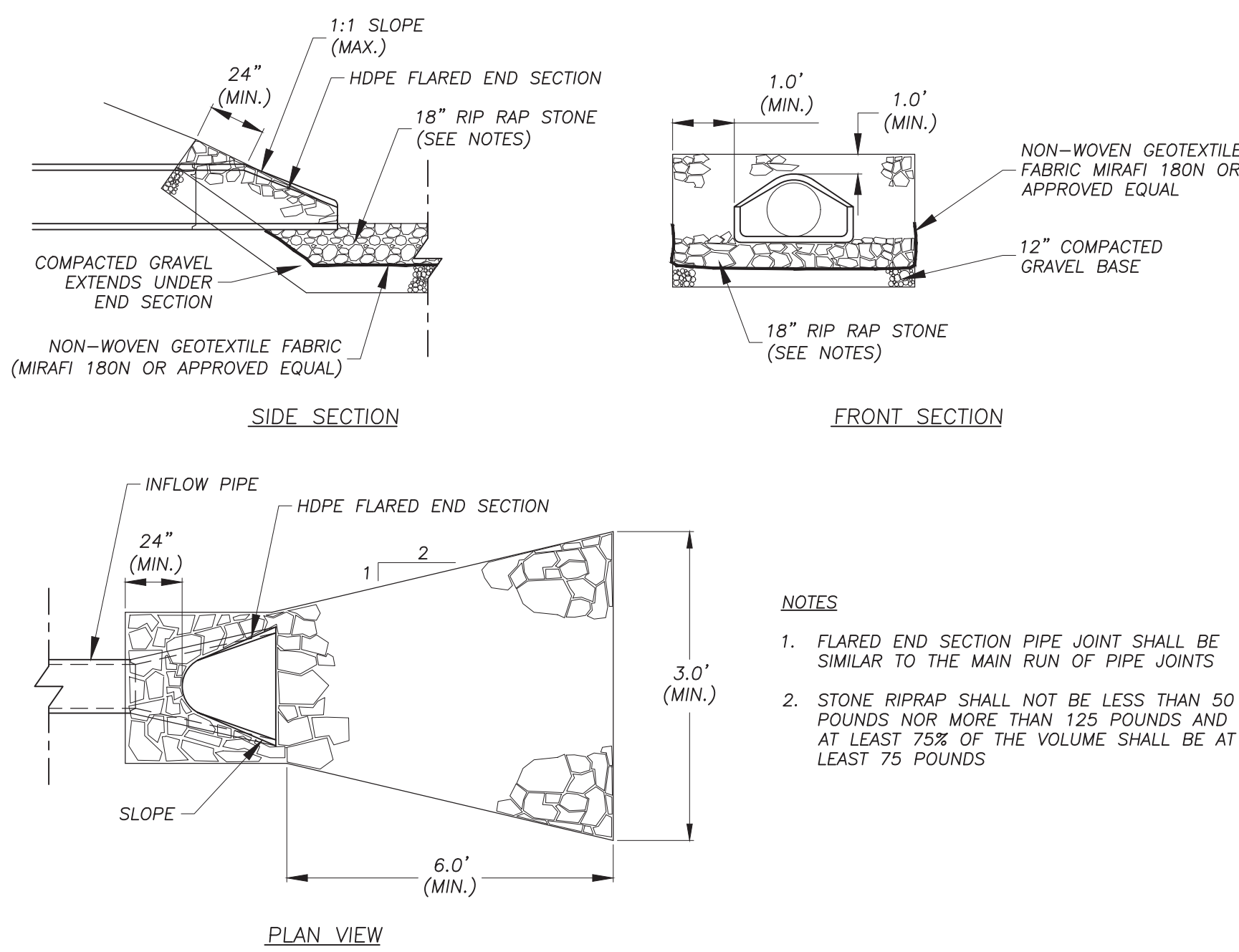
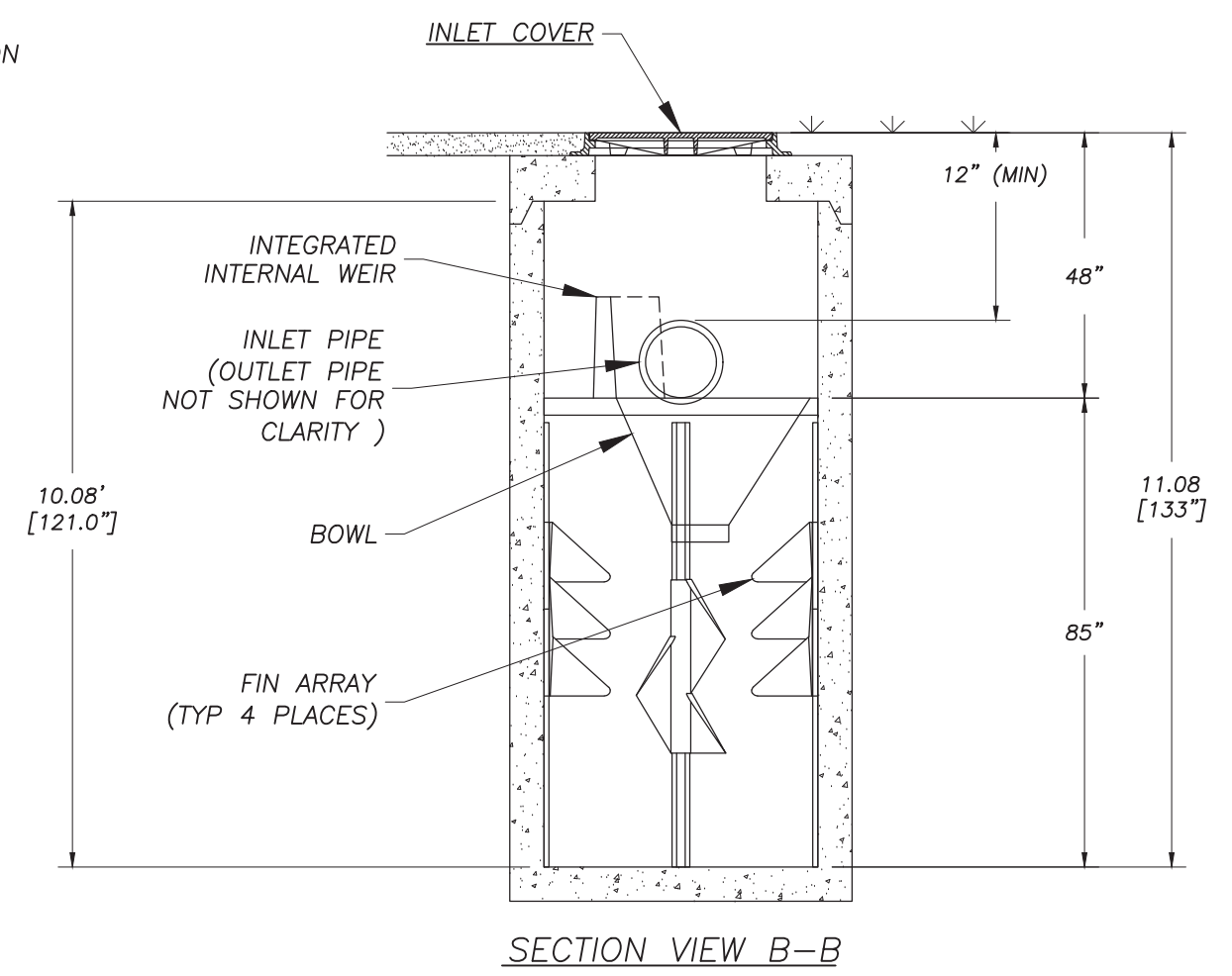
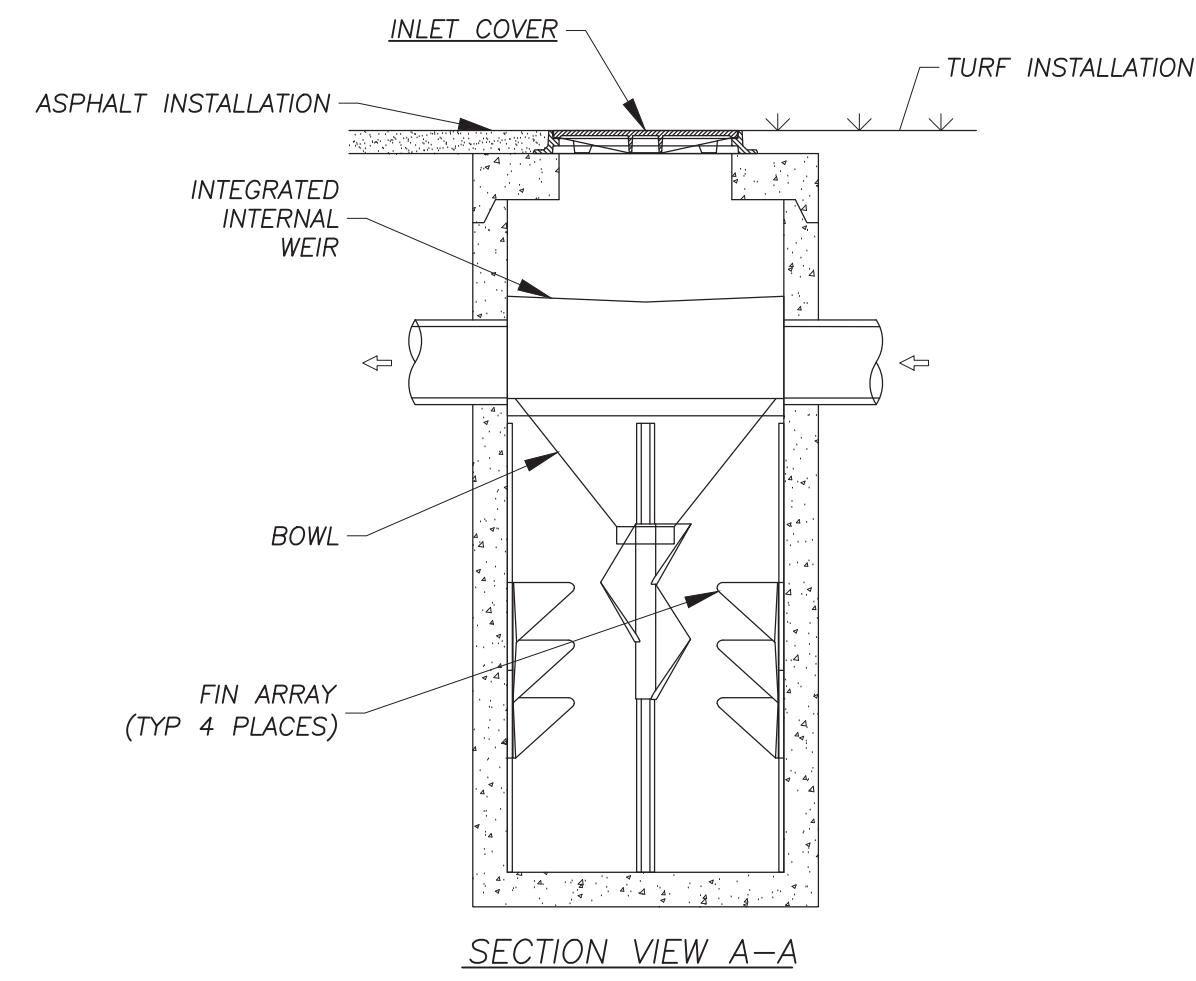


STANDARD PRECAST CONCRETE CATCH BASIN
NO SCALE

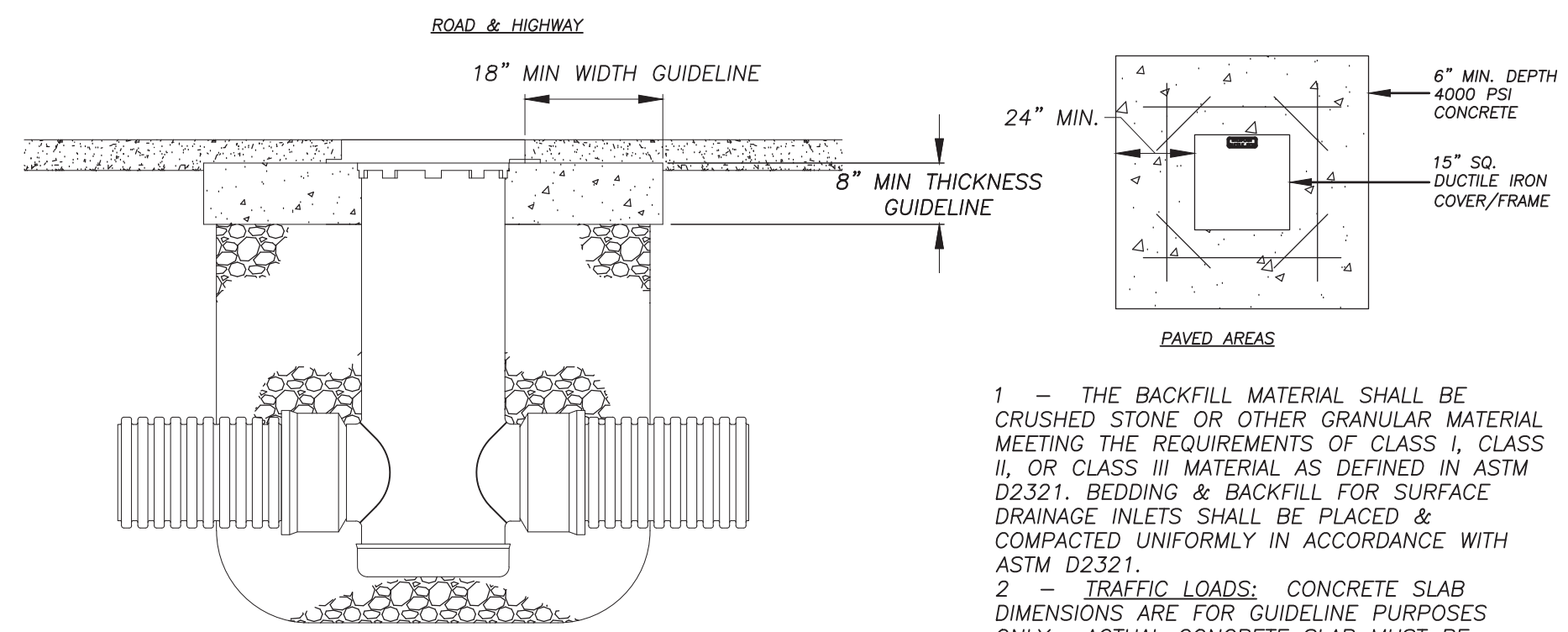


Water Quality Flow Rate Calculation:
 $Q = \text{peak flow rate associated with water quality event (c.f.s.)} = (qu) (A) (WQV)$
 where:
 $qu = \text{unit peak discharge (cm/in) - value taken from table based on } t_c (t_c = 0.100 \text{ hr}) = 752 \text{ cm/in}$
 $A = \text{impervious surface drainage area (sq. mi.)} = 0.00155 \text{ sq. mi.}$
 $WQV = \text{water quality volume in watershed inches} = 0.5 \text{ inch}$
 $Q_{0.5} = (752 \text{ cm/in}) (0.00155 \text{ sq. mi.}) (0.5 \text{ inch}) = 0.58 \text{ c.f.s.}$
 *Barracuda S4 Water Quality Unit is capable of treating up to 1.08 cfs.

WATER QUALITY UNIT - BARRACUDA S4 (PWQU-1)
NO SCALE

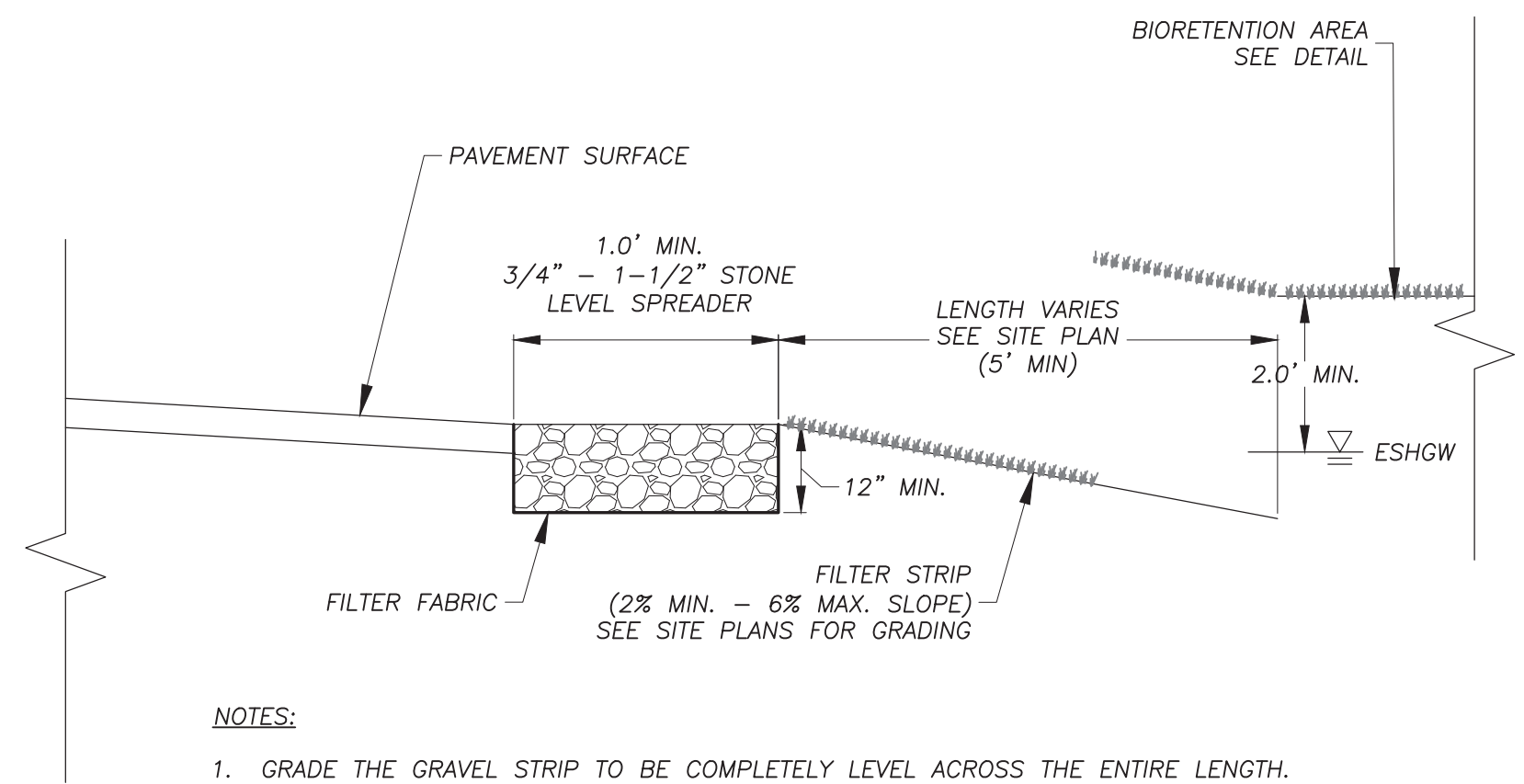


STANDARD RIP RAP PIPE OUTLET
NO SCALE



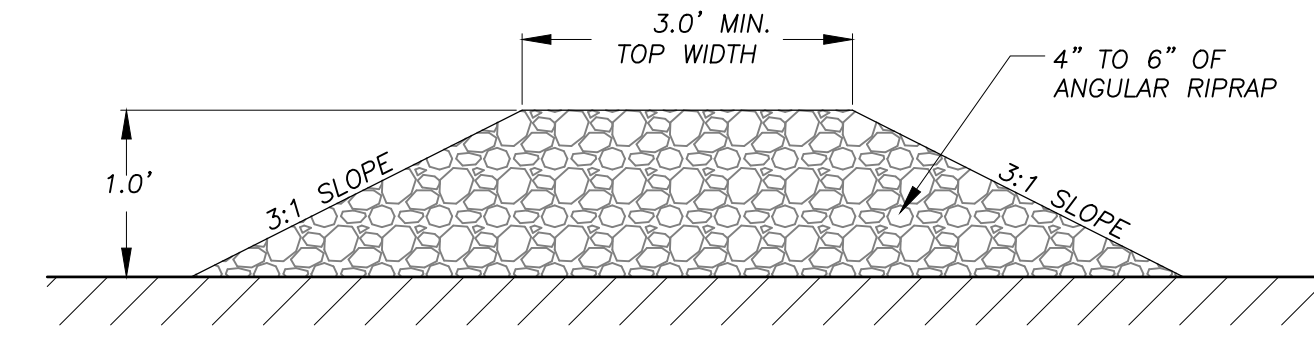
NYLOPLAST MH W/ CONC. COLLAR
NO SCALE

1 - THE BACKFILL MATERIAL SHALL BE CRUSHED STONE OR OTHER GRANULAR MATERIAL MEETING THE REQUIREMENTS OF CLASS I, CLASS II, OR CLASS III MATERIAL AS DEFINED IN ASTM D2321. BEDDING & BACKFILL FOR SURFACE DRAINAGE INLETS SHALL BE PLACED & COMPACTED UNIFORMLY IN ACCORDANCE WITH ASTM D2321.
 2 - TRAFFIC LOADS: CONCRETE SLAB DIMENSIONS ARE FOR GUIDELINE PURPOSES ONLY. ACTUAL CONCRETE SLAB MUST BE DESIGNED TAKING INTO CONSIDERATION LOCAL SOIL CONDITIONS, TRAFFIC LOADING, & OTHER APPLICABLE DESIGN FACTORS.

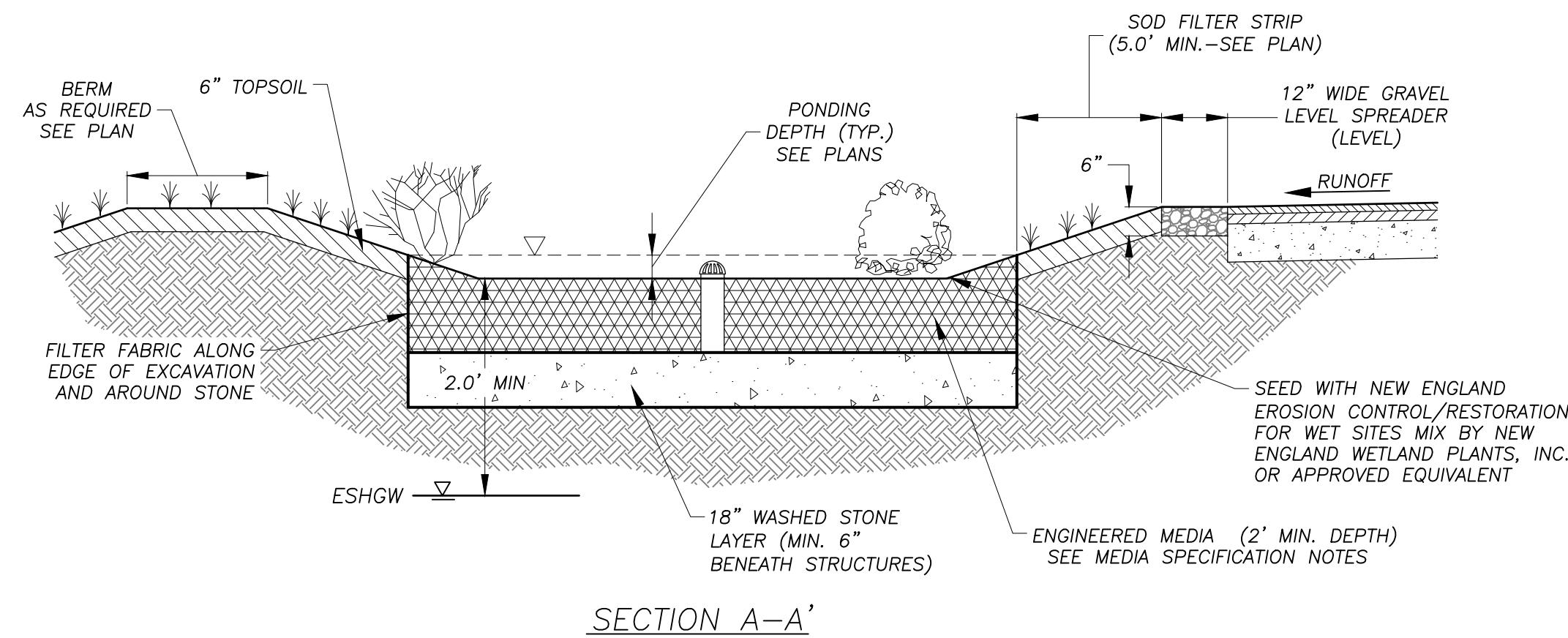


GRASS & GRAVEL FILTER STRIP
NO SCALE

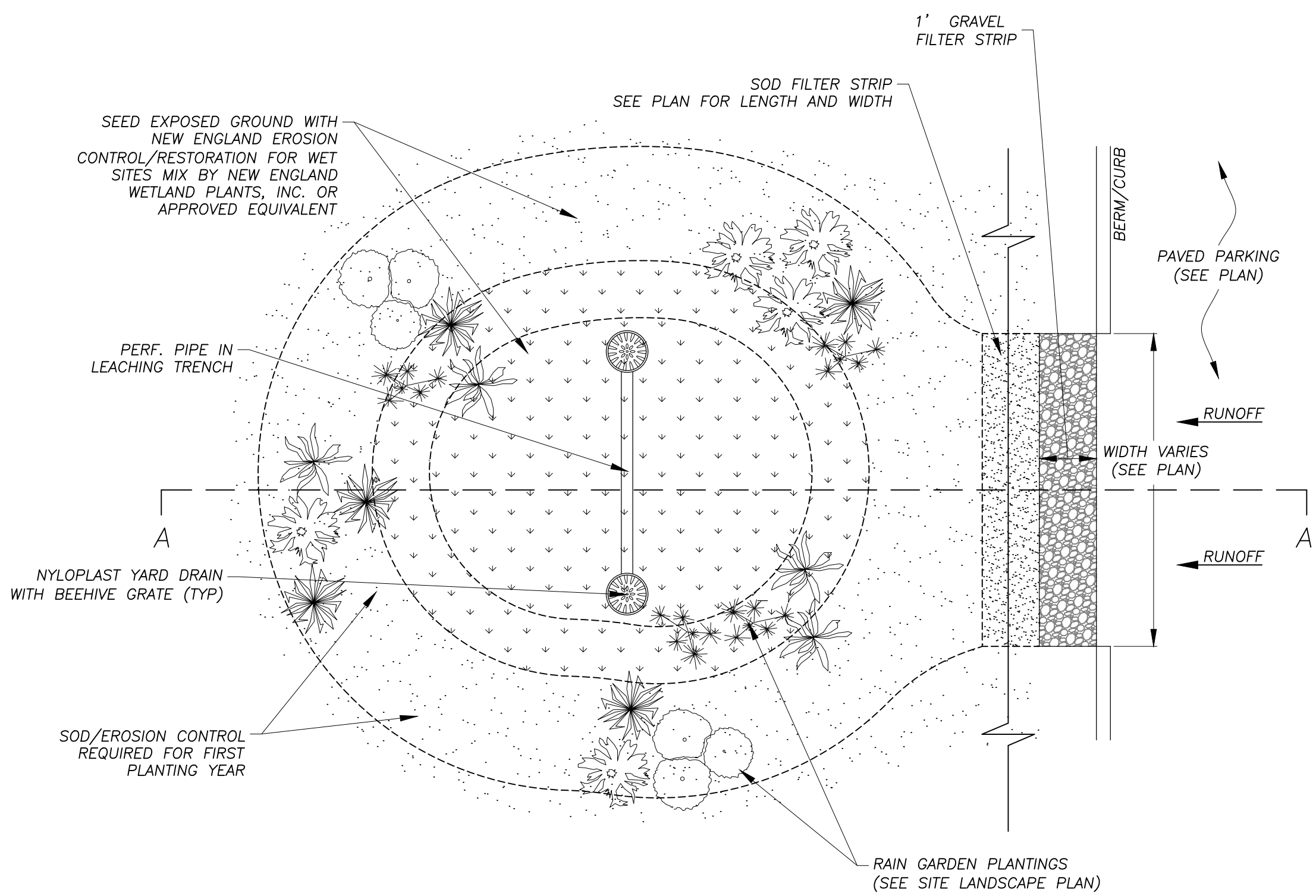
NOTES:
 1. GRADE THE GRAVEL STRIP TO BE COMPLETELY LEVEL ACROSS THE ENTIRE LENGTH.
 2. FILTER STRIP TO PLANTED WITH SOD.



SEDIMENT FOREBAY RIPRAP WEIR
NO SCALE



SECTION A-A'

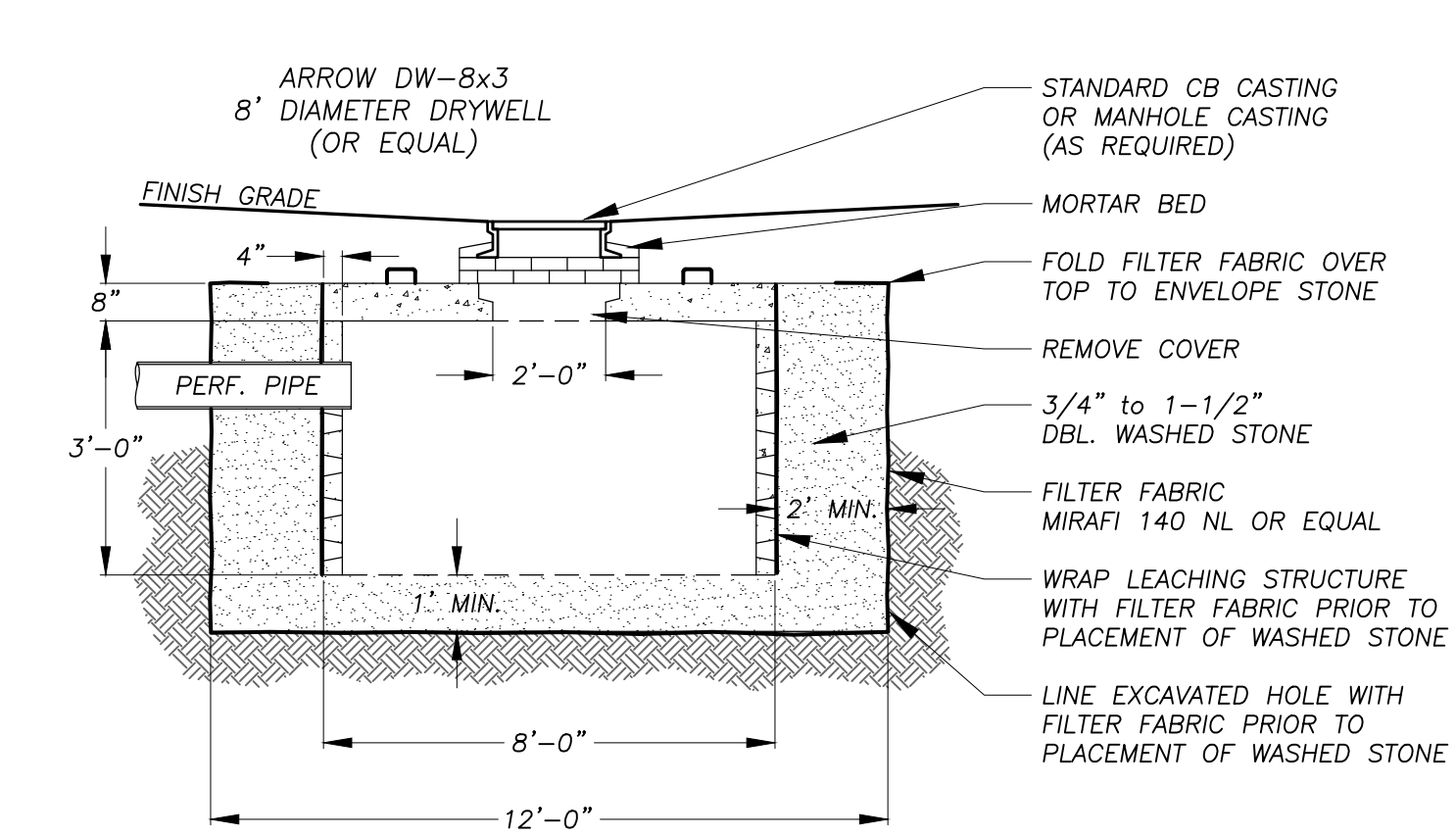


BIORETENTION AREA #1
NO SCALE

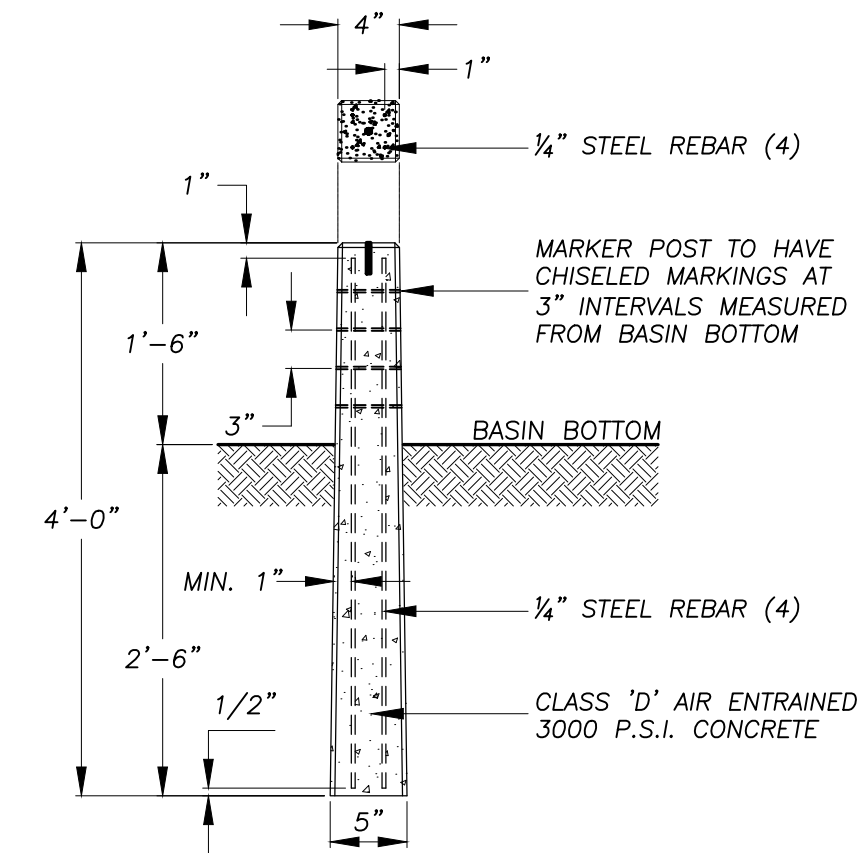
RAIN GARDEN/BIORETENTIONS BASIN NOTES

- DO NOT DISCHARGE SEDIMENT-LADEN WATERS FROM CONSTRUCTION ACTIVITIES (RUNOFF, WATER FROM EXCAVATIONS, ETC.) TO THE RAIN GARDEN/BIORETENTION BASIN AREAS DURING ANY STAGE OF CONSTRUCTION.
- DO NOT TRAFFIC EXPOSED SOIL SURFACE WITH HEAVY CONSTRUCTION EQUIPMENT. PERFORM EXCAVATIONS WITH LIGHT EARTH-MOVING EQUIPMENT POSITIONED OUTSIDE THE LIMITS OF THE INFILTRATION COMPONENTS OF THE SYSTEM IF FEASIBLE.
- IF RAIN GARDEN/BIORETENTION BASIN AREAS ARE EXPOSED DURING CONSTRUCTION AND DO RECEIVE SEDIMENT DEPOSITS, BASIN BOTTOM MUST BE OVER EXCAVATED 6-8" INTO NATIVE MATERIAL TO REMOVE SEDIMENT DEPOSITS.
- ALL DRAINAGE AREAS TO A RAIN GARDEN/BIORETENTION BASIN FACILITY ARE TO BE STABILIZED PRIOR TO INSTALLATION OF AMENDED SOILS. SEED MIX, MULCH OR PLANTINGS.
- AMENDED SOIL WILL ONLY BE PERMITTED WITH A VALID SOIL ANALYSIS REPORT
- FOR BIORETENTION BASIN, WRAP PERFORATED UNDERDRAIN WITH FILTER FABRIC PRIOR TO BACKFILLING.
- UNDERDRAIN PIPE SHOULD HAVE 3/8" PERFORATIONS SPACED AT 6" CENTERS, MIN. 4 HOLES PER ROW. MAXIMUM SPACING OF UNDERDRAIN PIPE IS 10 FEET ON CENTER.
- FILTER MEDIA FOR RAIN GARDENS AND BIORETENTION BASINS SHALL BE AS FOLLOWS:

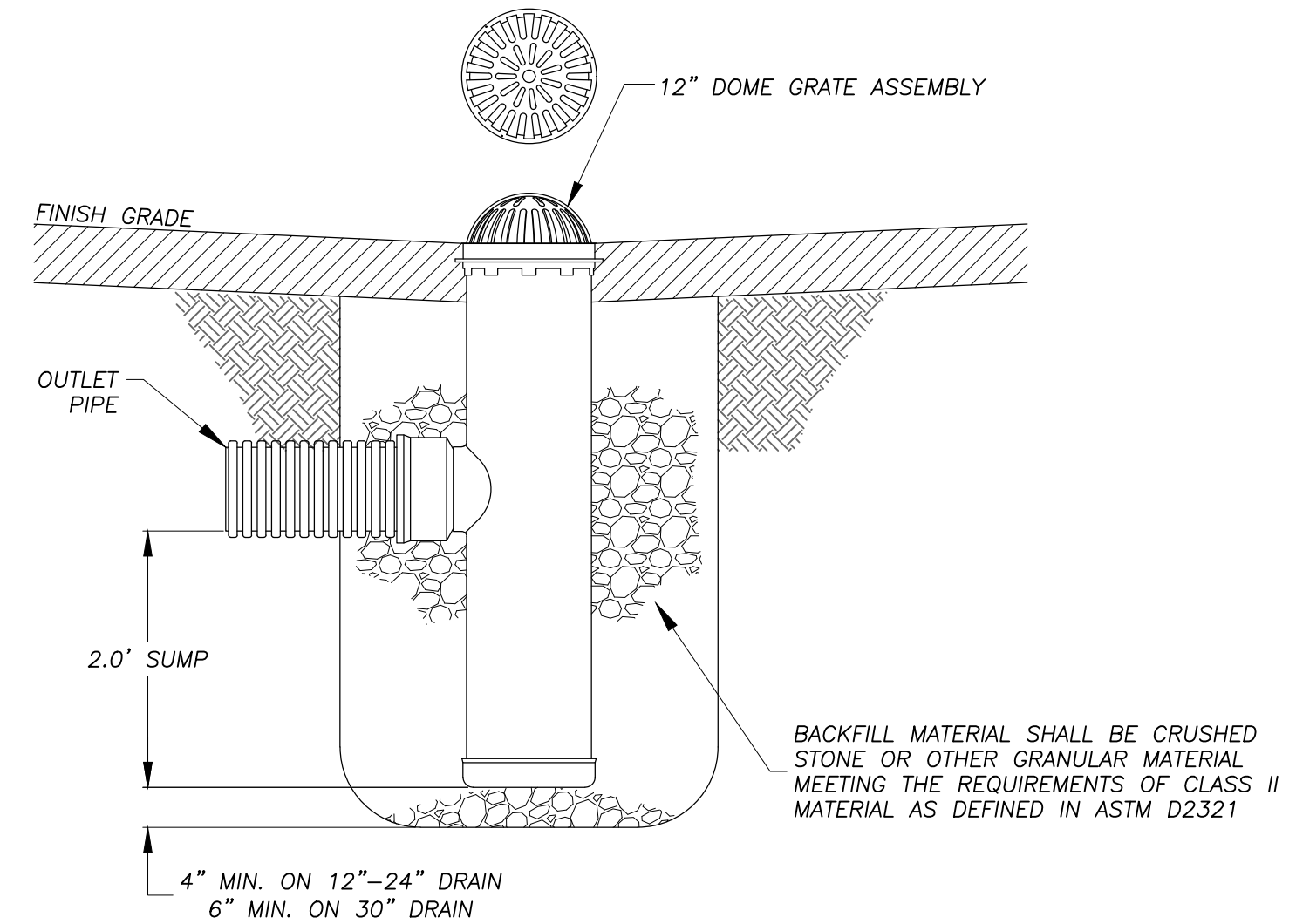
SIEVE NO.	PERCENT BY WEIGHT PASSING STANDARD SIEVE INDICATED
10	85-100
20	70-100
60	15-40
200	8-15



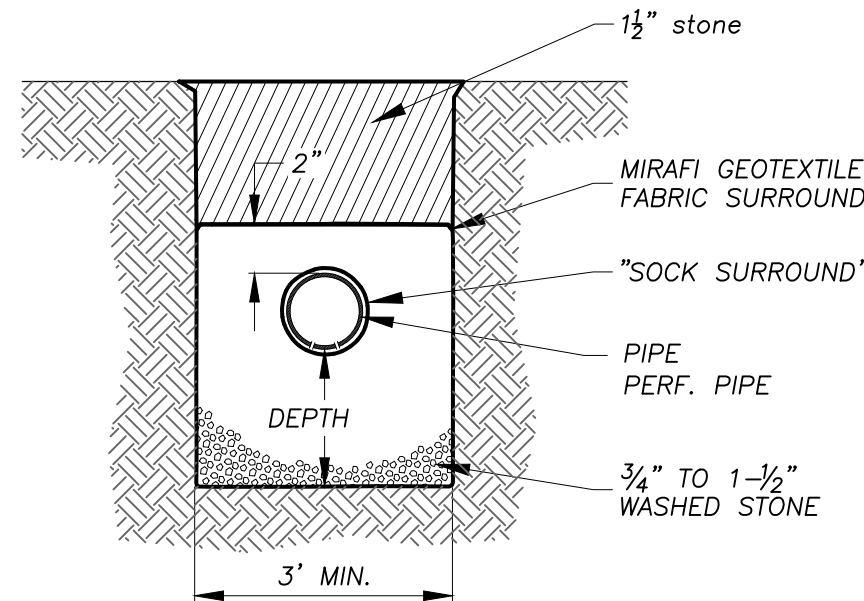
PRECAST CONCRETE DRYWELL DETAIL
NO SCALE



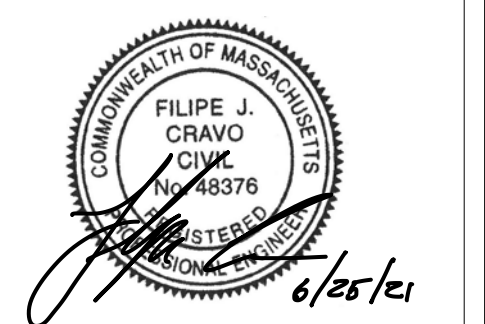
SEDIMENT MARKER POST
NO SCALE



ADS NYLOPLAST YARD DRAIN BASIN
NO SCALE



LEACHING TRENCH DETAIL
NO SCALE



PREPARED FOR:
Todd Cellura
Sovereign Builders
135 Southampton Rd
Westhampton, MA 01027

ISSUANCE DATE:	February 23, 2021
REVISIONS:	DATE:
A. BUILDING & STORMWATER	6/16/21
B. DRIVEWAY STORMWATER	6/25/21

DRAFTED BY: R.N. & C.K.

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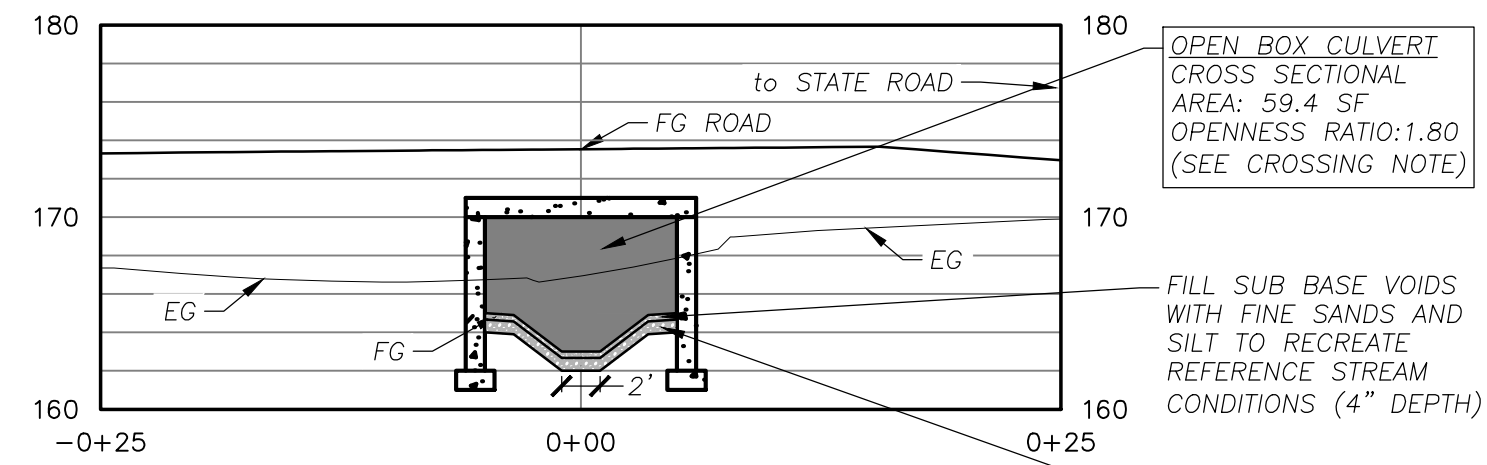
SCALE: AS NOTED

RLA PROJ. NUMBER: 200912

DRAWING#	REV.
D-5	B

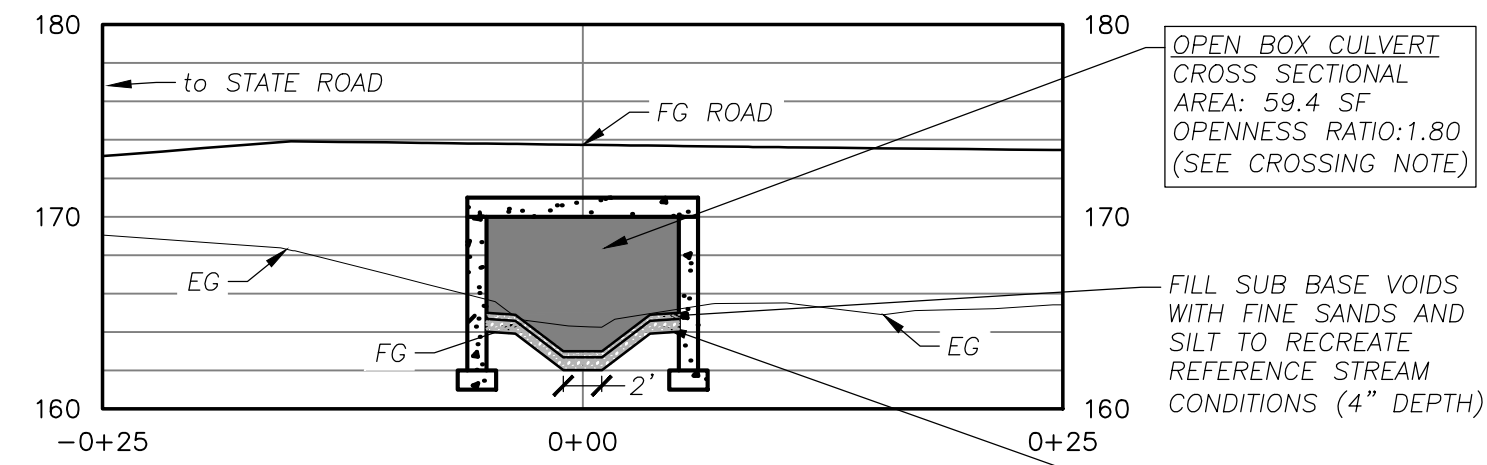
PERMITTING

NOTE
CULVERT/BRIDGE CROSS-SECTION SHOWN SCHEMATICALLY TO DETERMINE OPENNESS RATIO AND ASSOCIATED PERMITTING REQUIREMENTS. FINAL CULVERT DIMENSIONS SHALL BE BY STRUCTURAL ENGINEER. FINAL CULVERT DESIGN TO MAINTAIN OPENNESS RATIO AS SHOWN ON DESIGN PLANS. CULVERT CONSTRUCTION TO COMPLY WITH ALL APPLICABLE RULES AND REGULATIONS.



PROFILE ALONG UPSTREAM (NORTH) SIDE OF CULVERT

HORIZONTAL 1" = 10'
VERTICAL 1" = 10'



PROFILE ALONG UPSTREAM (SOUTH) SIDE OF CULVERT

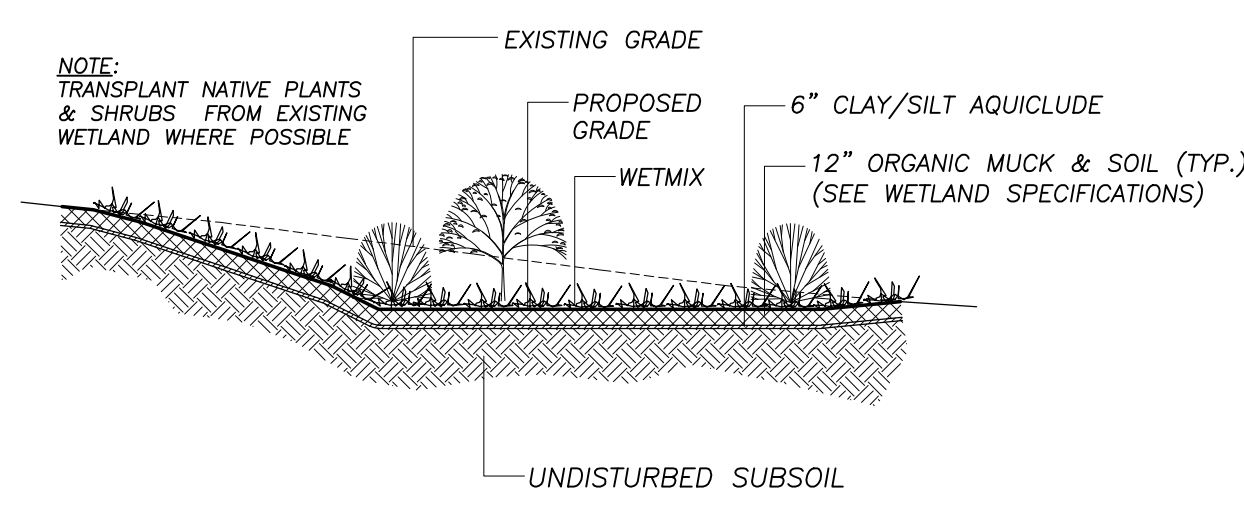
HORIZONTAL 1" = 10'
VERTICAL 1" = 10'

NOTE
BANKS WITHIN PROPOSED CULVERT TO BE CONSTRUCTED TO MAINTAIN A CONTINUOUS THALWEG THROUGH THE ENTIRE LENGTH OF CROSSING.

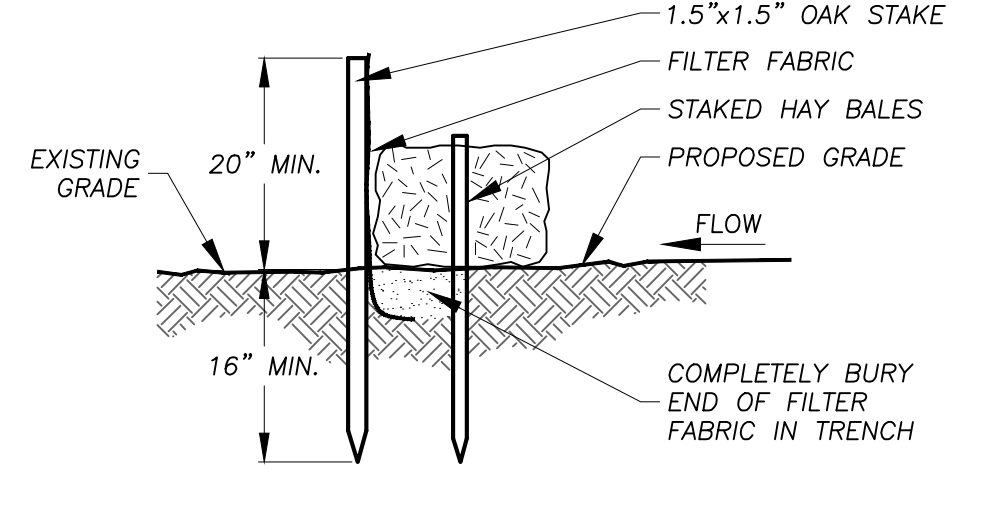
CULVERT CONSTRUCTION SCHEDULE:

1. CULVERT/BRIDGE CROSSING DESIGN TO BE PROVIDED BY MANUFACTURER/STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION AND SHALL ACCOMMODATE H-20 LOADING FOR EMERGENCY VEHICLES. OWNER TO OBTAIN BUILDING PERMIT PRIOR TO CONSTRUCTION.
2. NOTIFY THE CONSERVATION COMMISSION A MINIMUM OF ONE (1) WEEK PRIOR TO THE START OF ACTIVITIES ON THE SITE.
3. INSTALL THE DEP SIGN FOR THE SITE AS REQUIRED BY THE WETLANDS PROTECTION ACT.
4. INSTALL EROSION/SEDIMENTATION CONTROLS (ESC) AS INDICATED ON THE PROJECT PLAN(S). ADDITIONAL ESC SHALL BE STOCKPILED ON SITE FOR FUTURE USE IF NECESSARY. AN ADEQUATE AMOUNT ON ESC SHALL BE ON-SITE FOR ROUTINE REPAIRS OF ANY DAMAGED CONTROLS.
5. NOTIFY THE CONSERVATION COMMISSION WHEN THE ESC HAVE BEEN INSTALLED.
6. CLEAR AND GRUB AS INDICATED ON THE PROJECT PLAN(S).
7. ROUGH GRADE DRIVEWAY LOCATION FOR ACCESS TO STREAM CROSSING LOCATION. TEMPORARY BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED TO REDUCE AND CONTROL ANY EXPOSED SOILS. THE PROJECT SHALL BE CONDUCTED TO MINIMIZE SOIL DISTURBANCE AT ANY ONE TIME.
8. IN ORDER TO MINIMIZE THE AMOUNT OF DISTURBANCE, WORK SHALL ONLY TAKE PLACE DURING LOW-FLOW, NON-STORM EVENT STREAM FLOWS. THE CULVERT INSTALLATION SHALL TAKE PLACE IN AS SHORT A TIME PERIOD AS POSSIBLE, DURING A PERIOD OF EXTENDED FORECASTED DRY WEATHER.
9. INSTALL FOOTINGS FOR PROPOSED OPEN BOTTOM BOX CULVERT/BRIDGE. IF DEWATERING IS REQUIRED IT SHALL BE CONDUCTED USING BEST MANAGEMENT PRACTICES, PREVENTING SEDIMENT MIGRATION BEYOND THE AREA OF WORK.
10. STABILIZE ANY EXPOSED SOILS ON THE INTERIOR SIDE OF THE FOOTINGS, CLOSEST TO THE STREAM CHANNEL PRIOR TO SETTING THE OPEN BOTTOM BOX CULVERT.
11. SET THE BOX CULVERT/BRIDGE USING THE APPROPRIATE EQUIPMENT. ADDITIONAL DETAIL ON THE PROCESS SHALL BE OBTAINED FROM THE MANUFACTURER OF THE CULVERT.
12. EXPOSED SOILS SHALL BE STABILIZED USING A RESTORATION SEED MIX, MULCH, EROSION CONTROL BLANKETS, OR A COMBINATION OF THESE AS NECESSARY. FINAL SURFACE CONDITIONS OF THE DRIVEWAY SHALL BE ESTABLISHED.
13. UPON ACHIEVING 70% STABILIZATION OF PERMANENT VEGETATIVE COVER, OVER 90% OF THE AREA, THE CONSERVATION COMMISSION SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO THE EROSION CONTROLS BEING REMOVED. EROSION CONTROLS SHALL NOT BE REMOVED UNTIL REMOVAL IS APPROVED BY THE CONSERVATION COMMISSION.
14. BANKFULL WIDTH MEASUREMENTS ARE SHOWN ON EX-1 (NOTE 14)

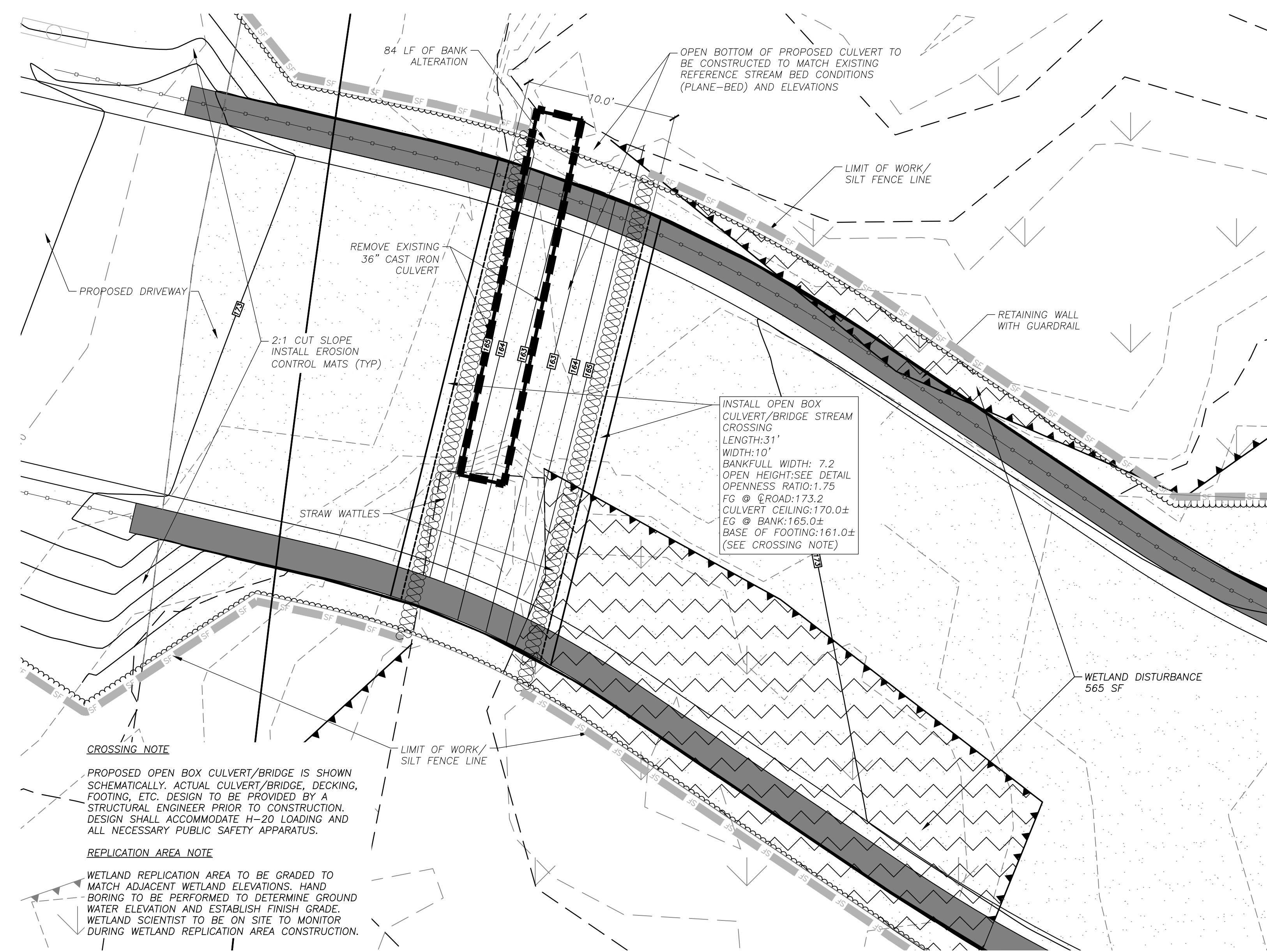
SEED WETLAND REPLICATION AREA WITH "NEW ENGLAND WETMIX" BY NEW ENGLAND WETLAND PLANTS, INC., OR EQUAL APPROVED BY LANDSCAPE ARCHITECT/WETLAND SCIENTIST. SEED MIXTURE TO BE APPLIED AT A RATE OF 1.0 LB/2,500 S.F.



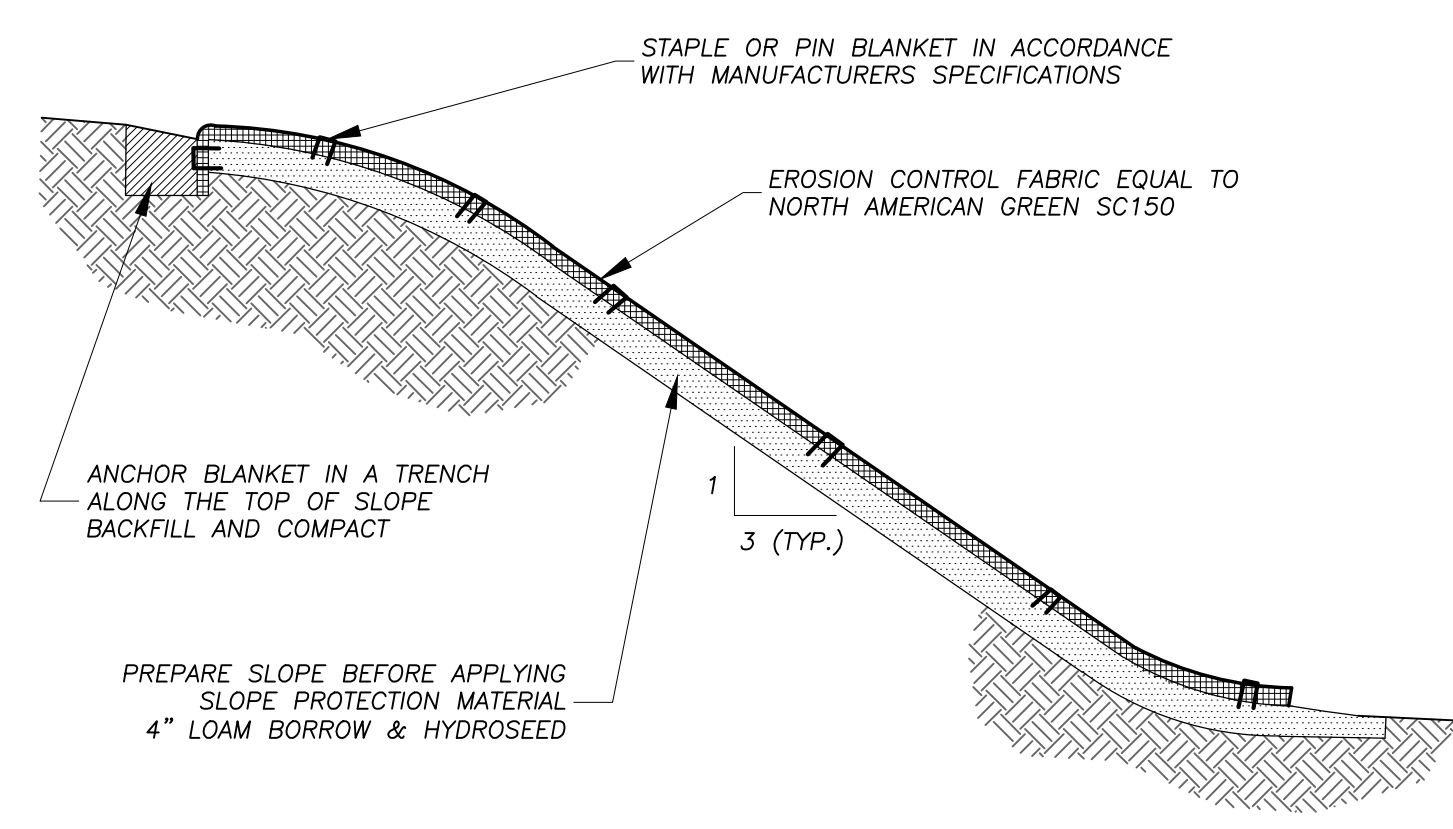
TYPICAL WETLAND REPLICATION AREA - CROSS SECTION
NO SCALE



EROSION CONTROL - DOUBLE BARRIER
NO SCALE



PLAN VIEW - STREAM CROSSING
1" = 5'



SLOPE PROTECTION MATERIAL INSTALLATION (AS REQ'D)
NO SCALE

INVASIVE PLANT NOTE:
PRIOR TO CONSTRUCTION, CONTRACTOR SHALL ENSURE THAT ANY ACCUMULATED SOIL ON EARTHMOVING EQUIPMENT HAS BEEN REMOVED TO LIMIT THE RISK OF INVASIVE PLANT INTRODUCTION TO THE CONSTRUCTION SITE. CONTRACTOR SHALL CONTROL EXISTING INVASIVE PLANT SPECIES WITHIN THE LIMIT OF WORK AND WITHIN CONSERVATION JURISDICTION AFTER COORDINATION WITH THE WETLAND SCIENTIST TO IDENTIFY SAID SPECIES. CONTROL EFFORTS SHALL BE IN ACCORDANCE WITH WETLAND SCIENTIST'S RECOMMENDATIONS AND ANY APPLICABLE LOCAL, STATE, OR FEDERAL REGULATIONS.

S:\Projects\2020\200912 - Cellura - State Road, Whately\Civil 3D\200912 - SITE.dwg

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Civil Engineers - Land Surveyors
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rlaland.com

DETAILS
State Road
Whately, MA
Map 5 Parcel 29

MASSACHUSETTS REGISTERED LANDSCAPE ARCHITECT
NO. 1298
NOVEMBER 1998

PREPARED FOR:
Todd Cellura
Sovereign Builders
135 Southampton Rd
Westhampton, MA 01027

ISSUANCE DATE: February 23, 2021

REVISIONS:	DATE:
A. COMP STOR, GATE & BUFFER	4/29/21
B. THALWEG & STREAM BED	7/27/21

DRAFTED BY: R.N. & C.K.

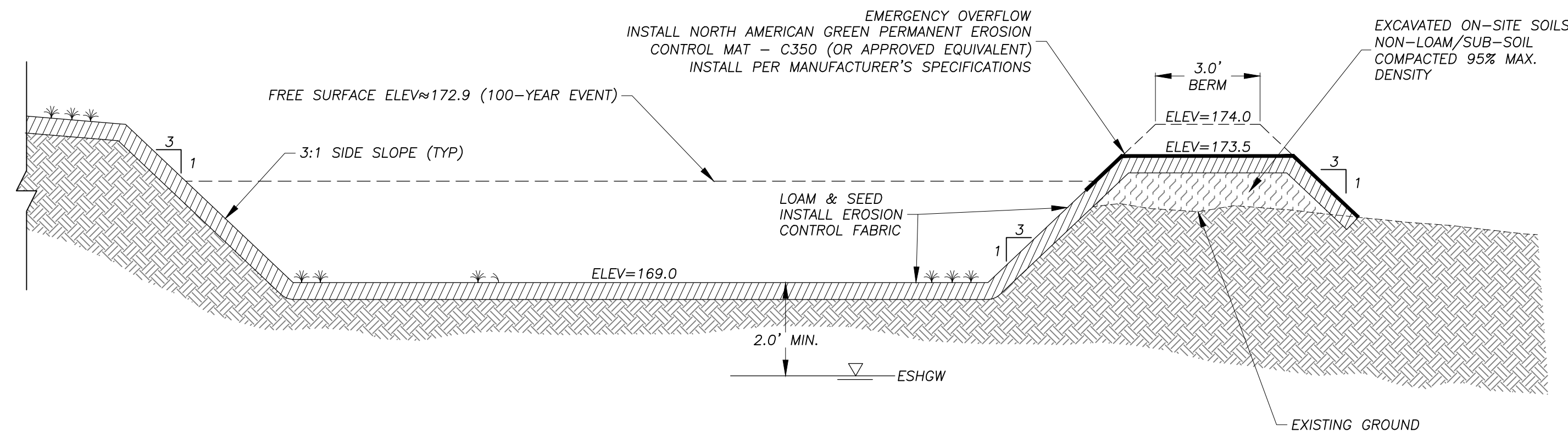
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SCALE: AS NOTED

RLA PROJ. NUMBER: 200912

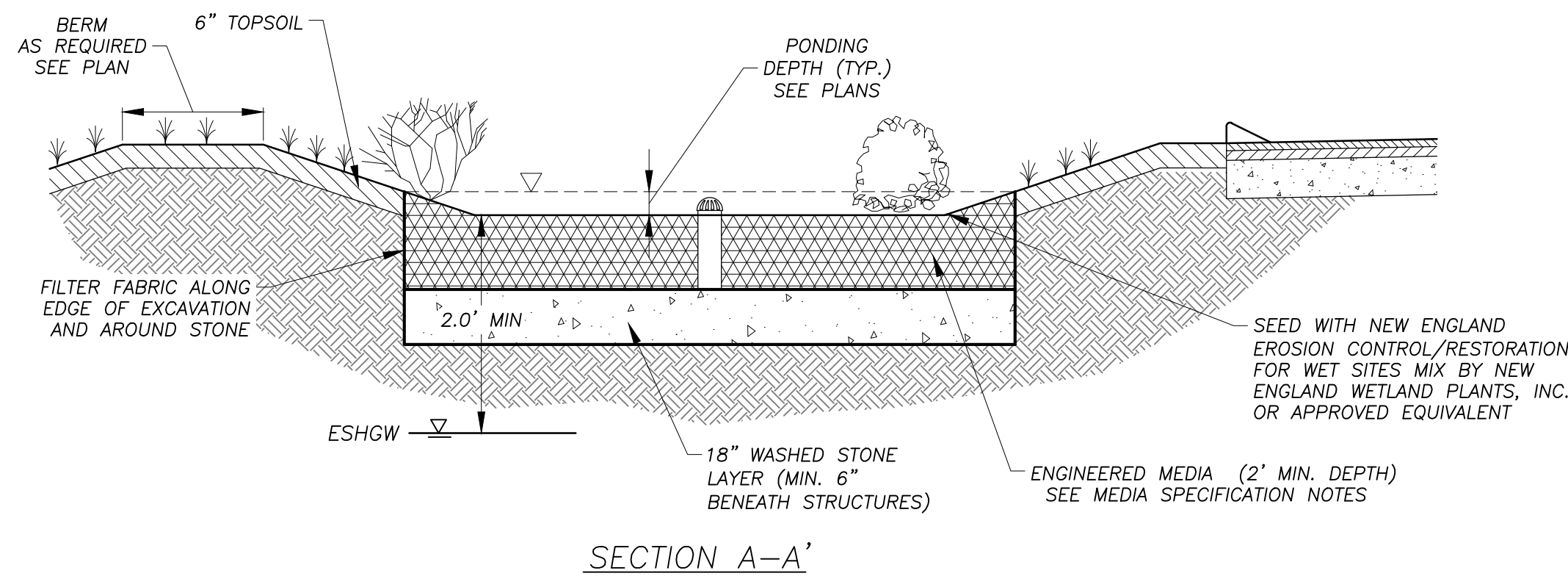
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PERMITTING



SURFACE INFILTRATION BASIN #1

NO SCALE



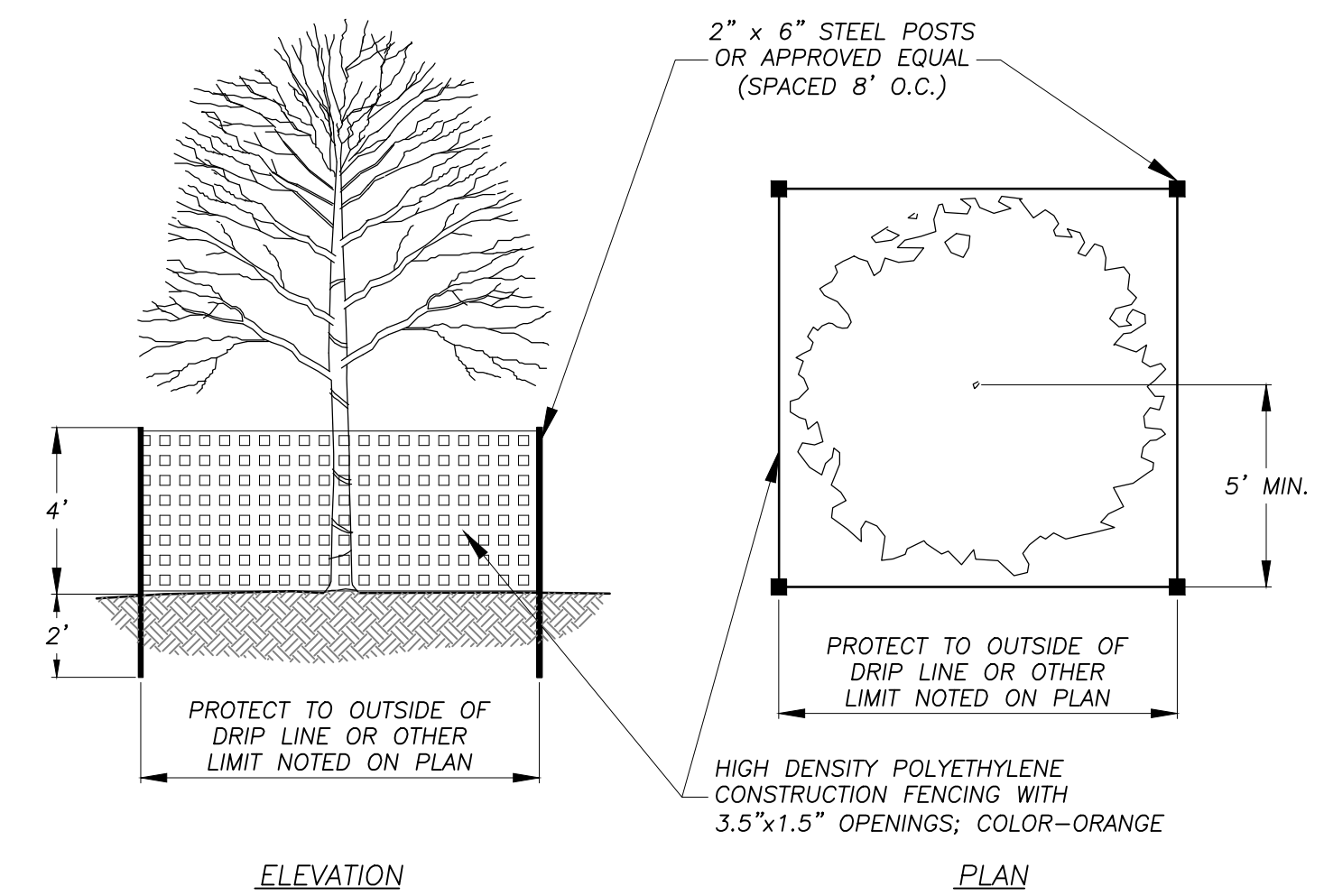
RAIN GARDEN/BIORETENTATION BASIN NOTES

- DO NOT DISCHARGE SEDIMENT-LADEN WATERS FROM CONSTRUCTION ACTIVITIES (RUNOFF, WATER FROM EXCAVATIONS, ETC.) TO THE RAIN GARDEN/BIORETENTION BASIN AREAS DURING ANY STAGE OF CONSTRUCTION.
- DO NOT TRAFFIC EXPOSED SOIL SURFACE WITH HEAVY CONSTRUCTION EQUIPMENT. PERFORM EXCAVATIONS WITH LIGHT EARTH-MOVING EQUIPMENT POSITIONED OUTSIDE THE LIMITS OF THE INFILTRATION COMPONENTS OF THE SYSTEM IF FEASIBLE.
- IF RAIN GARDEN/BIORETENTION BASIN AREAS ARE EXPOSED DURING CONSTRUCTION AND DO RECEIVE SEDIMENT DEPOSITS, BASIN BOTTOM MUST BE OVER EXCAVATED 6-8" INTO NATIVE MATERIAL TO REMOVE SEDIMENT DEPOSITS.
- ALL DRAINAGE AREAS TO A RAIN GARDEN/BIORETENTION BASIN FACILITY ARE TO BE STABILIZED PRIOR TO INSTALLATION OF AMENDED SOILS. SEED MIX, MULCH OR PLANTINGS.
- AMENDED SOIL WILL ONLY BE PERMITTED WITH A VALID SOIL ANALYSIS REPORT
- FOR BIORETENTION BASIN, WRAP PERFORATED UNDERDRAIN WITH FILTER FABRIC PRIOR TO BACKFILLING.
- UNDERDRAIN PIPE SHOULD HAVE 3/8" PERFORATIONS SPACED AT 6" CENTERS, MIN. 4 HOLES PER ROW. MAXIMUM SPACING OF UNDERDRAIN PIPE IS 10 FEET ON CENTER.
- FILTER MEDIA FOR RAIN GARDENS AND BIORETENTION BASINS SHALL BE AS FOLLOWS:

SIEVE NO.	PERCENT BY WEIGHT PASSING STANDARD SIEVE INDICATED
10	85-100
20	70-100
60	15-40
200	8-15

INFILTRATION BASIN NOTES

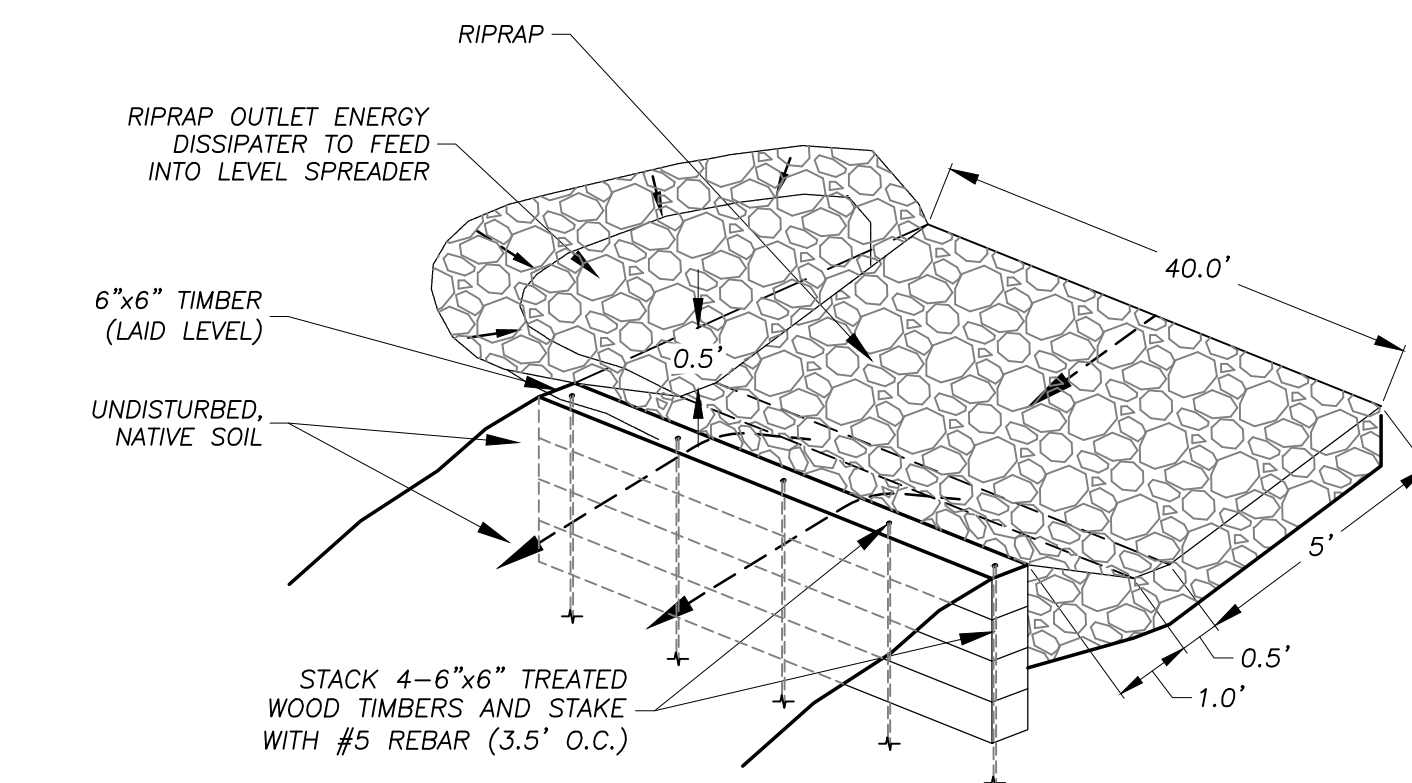
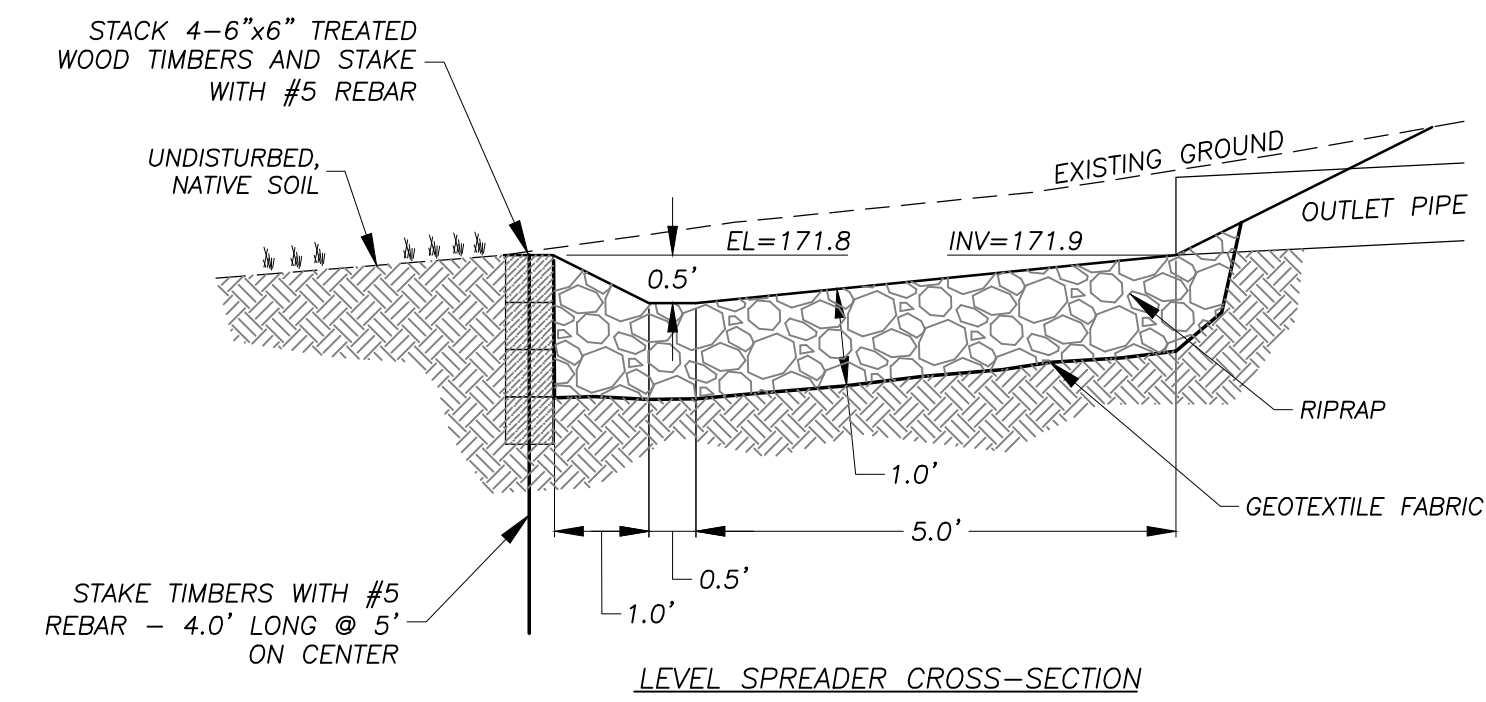
- INFILTRATION BASIN BOTTOM TO BE LOCATED A MINIMUM OF 3.0' ABOVE ESTIMATED SEASONAL HIGH GROUNDWATER (ESHGW).
- IMMEDIATELY AFTER CONSTRUCTING THE BASIN, STABILIZE THE BOTTOM AND SIDE SLOPES WITH WATER-TOLERANT GRASS.
- DURING BASIN EXCAVATION, USE NATIVE SOILS THAT WERE EXCAVATED FROM THE A OR B HORIZONS AND MIX WITH COMPOST, PROPERLY AGED TO KILL ANY SEED STOCK. SCARIFY THE NATIVE MATERIALS AND USE THE COMPOST MATERIAL TO SHAPE THE BASIN. MIX INTO THE PARENT MATERIAL TO A DEPTH OF 12 INCHES.
- DO NOT DISCHARGE SEDIMENT-LADEN WATERS FROM CONSTRUCTION ACTIVITIES (RUNOFF, WATER FROM EXCAVATIONS, ETC.) TO THE INFILTRATION BASIN AREAS DURING ANY STAGE OF CONSTRUCTION.
- DO NOT TRAFFIC EXPOSED SOIL SURFACE WITH HEAVY CONSTRUCTION EQUIPMENT. PERFORM EXCAVATIONS WITH LIGHT EARTH-MOVING EQUIPMENT POSITIONED OUTSIDE THE LIMITS OF THE INFILTRATION COMPONENTS OF THE SYSTEM IF FEASIBLE.
- IF INFILTRATION BASIN AREAS ARE EXPOSED DURING CONSTRUCTION AND DO RECEIVE SEDIMENT DEPOSITS, BASIN BOTTOM MUST BE OVER EXCAVATED 6-8" INTO NATIVE MATERIAL TO REMOVE SEDIMENT DEPOSITS.
- ALL DRAINAGE AREAS TO AN INFILTRATION BASIN FACILITY ARE TO BE STABILIZED PRIOR TO INSTALLATION OF TOPSOIL/COMPOST MIX AND SEED MIX.
- INFILTRATION BASIN BOTTOMS AND EMBANKMENTS TO BE SEED AS NOTED ON PLANS. NO TREES OR SHRUBS TO BE PLANTED WITHIN INFILTRATION BASINS OR EMBANKMENTS. DO NOT USE SOD.



TREE PROTECTION DETAIL

NO SCALE

LEVEL SPREADER CROSS-SECTION

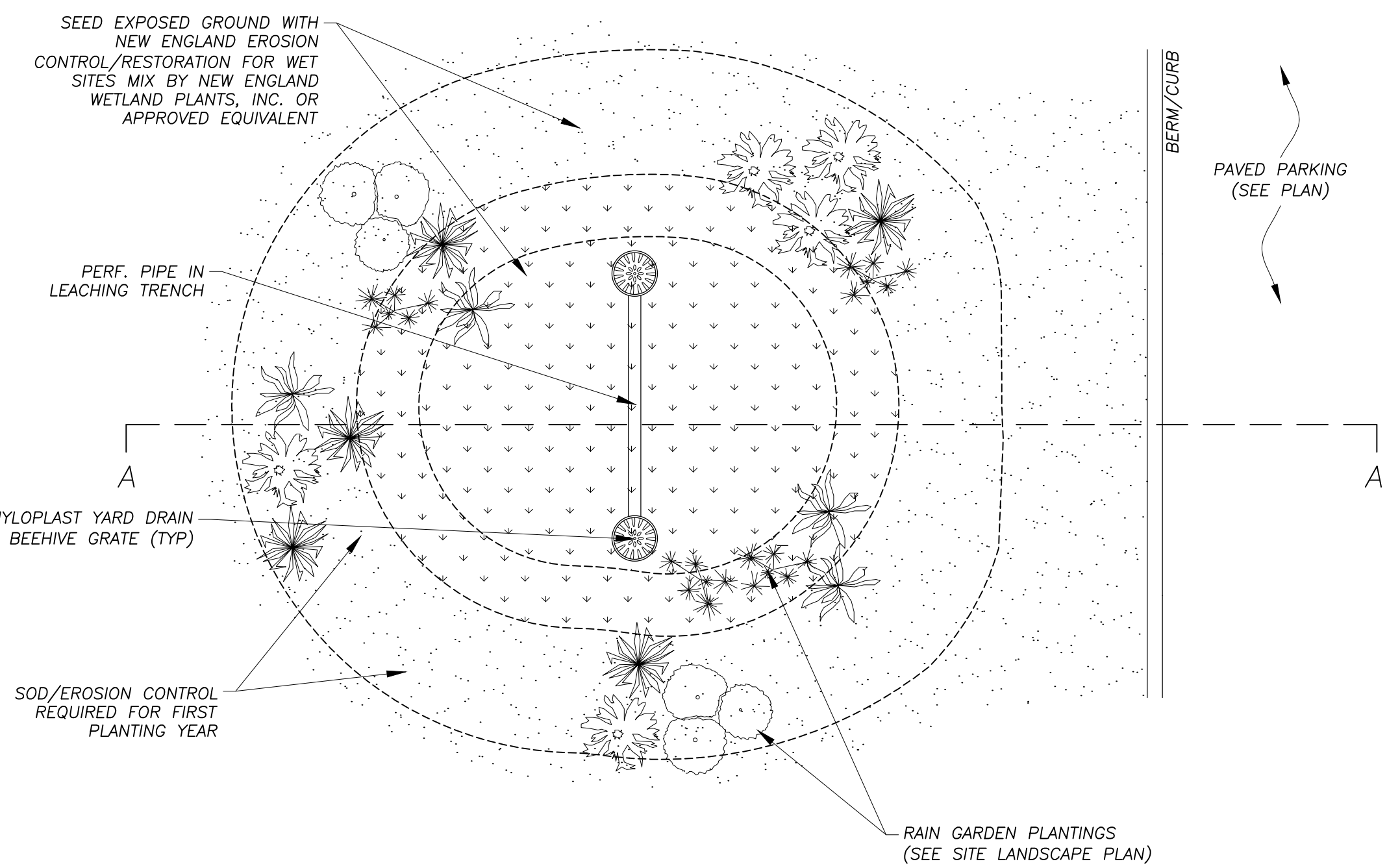


NOTES

- LEVEL SPREADER SHALL BE INSTALLED WITH A LEVEL INSTRUMENT. CONSTRUCT LEVEL UP TO 0% GRADE TO ENSURE UNIFORM SHEET FLOW. LEVEL SPREADER SHALL BE CONSTRUCTED ON UNDISTURBED SOIL.
- CONSTRUCTION OF LEVEL SPREADER SHALL BE FROM UPHILL SIDE ONLY. LEVEL LIP AND AREA BELOW SPREADER SHALL BE AT EXISTING GRADES AND UNDISTURBED BY EARTHWORK OR EQUIPMENT.
- CONSTRUCT SPREADER WITH LIP AT EXISTING GRADE AS SPECIFIED.
- DOWNGRADE RECEIVING AREA MUST BE NATURALLY WELL VEGETATED.

LEVEL SPREADER DETAIL

NO SCALE



BIORETENTION AREA #2

NO SCALE

RLA
R LEVESQUE ASSOCIATES INC.
 Landscape Architects
 Civil Engineers - Land Surveyors
 Environmental Consultants
 ph: 413.568.0985 fax: 413.568.0986
 40 School Street
 Westfield, MA 01085
 rland.com

DETAILS
 State Road
 Whately, MA
 Map 5 Parcel 29

PREPARED FOR:
 Todd Cellura
 Sovereign Builders
 135 Southampton Rd
 Westhampton, MA 01027

ISSUANCE DATE:	DATE:
June 16, 2021	6/25/21
REVISIONS:	
A. DRIVEWAY STORMWATER	

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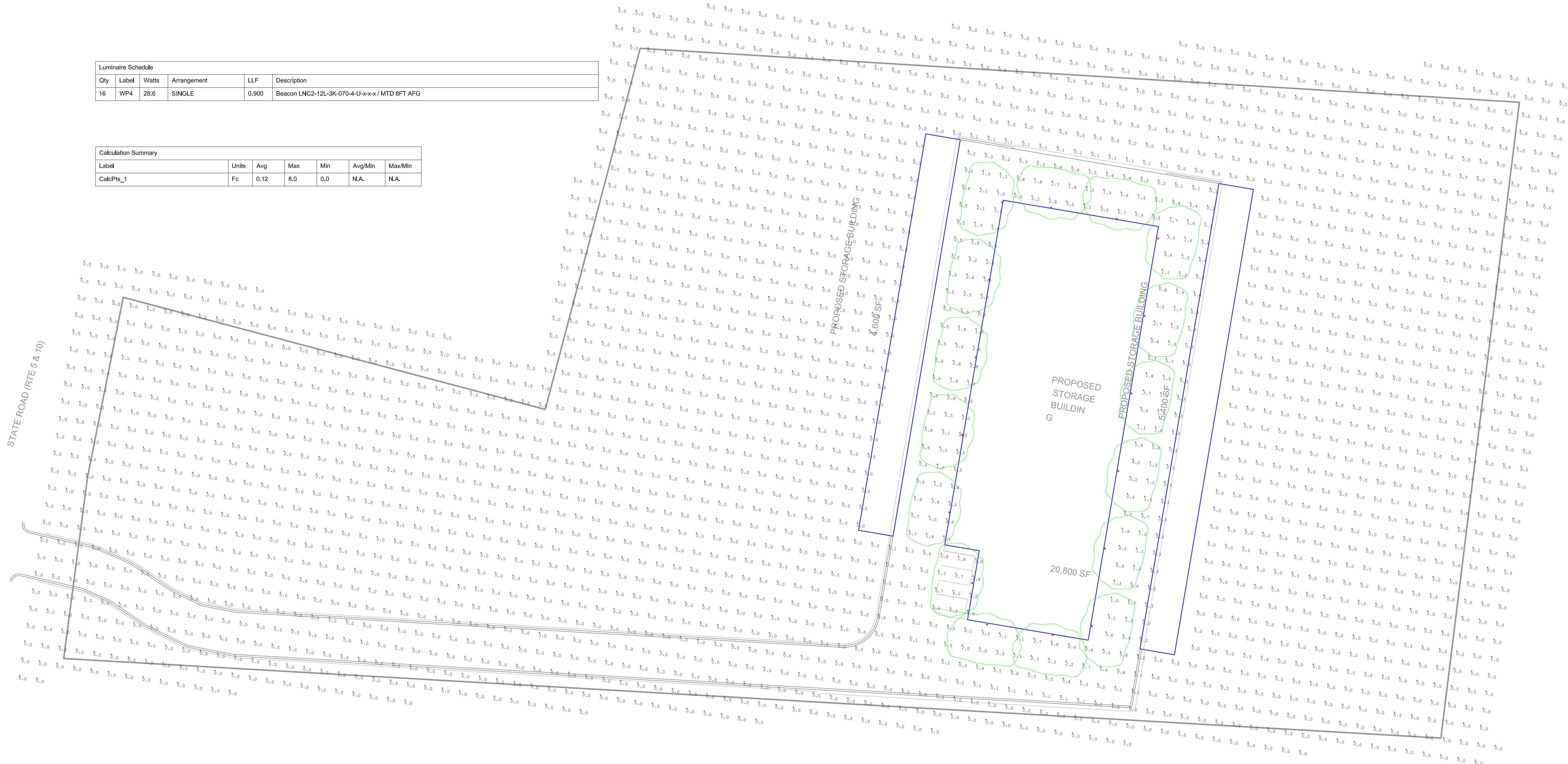
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PERMITTING

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Luminaire Schedule					
Qty	Label	Watts	Arrangement	LLF	Description
16	WP4	28.6	SINGLE	0.900	Beacon LNC2-12L-3K-070-4-U-xx-x / MTD 8FT AFG

Calculation Summary						
Label	Units	Avg	Max	Min	Avg/Min	Max/Min
CalcPts_1	Fc	0.12	8.0	0.0	N.A.	N.A.



Project: Self Storage Whately MA	
Contact: Liza Tuttle Specification Sales (860) 751-4388 ltuttle@illuminate.com	Detail: Photometric Calculation Date: 2/9/2021 Revision:---- Scale: 1" = 30'-0" Drawn By: AJ5
 44 Sixth Road Woburn, MA 01801 (781) 935-8500 333 Pleasant Valley Road South Windsor, CT 06074 (860) 282-0597	
Drawing Number: L-1	
Sheet 1 of 1	