SITE DEVELOPMENT PLANS

FOR

B&M 35 HANOVER, LLC

29 WINTER STREET, PEMBROKE, MASSACHUSETTS

LOCUS MAP



SHEET INDEX

EBI CONSULTING DRAWINGS					
SHEET NO.	SHEET TITLE				
C-1	COVER SHEET				
C-2	GENERAL NOTES SHEET				
C-3	ABBREVIATIONS & LEGEND SHEET				
C-4	DEMOLITION PLAN				
C-5	SITE PLAN				
C-6	GRADING & DRAINAGE PLAN				
C-7	UTILITY PLAN				
C-8	SEPTIC SYSTEM PLAN & DETAILS				
C-9	SEPTIC SYSTEM NOTES SHEET				
C-10	EROSION CONTROL PLAN				
C-11	EROSION NOTES & DETAILS SHEET				
C-12	DETAIL SHEET				
C-13	DETAIL SHEET				

REFERENCE DRAWINGS

SHEET NO.	SHEET TITLE
L100	Landscape Plan
	Existing Conditions Plan

PEMBROKE PLANNING BO	ARD
THIS PLAN DOES NOT NECESSARILY INDICATE COMPLIANCE WITH THE PEMBROKE ZONING BYLAW	
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SIGNATURE	DATE

SIGNATURE	DATE
SIGNATURE	DATE

PEMBROKE TOWN CLERK

TOWN CLERK, TOWN OF PEMBROKE:

PREPARED BY:



PROPERTY INFORMATION

OWNER

B&M 35 HANOVER, LLC 29 Winter Street

Pembroke, MA 02359 Tel: (781) 826-0222 Fax: (781) 826-2941

APPLICANT

B&M 35 HANOVER, LLC 29 Winter Street Pembroke, MA 02359 Tel: (781) 826-0222 Fax: (781) 826-2941

ASSESSOR'S INFORMATION

Map G14, Lot 54

PROJECT TEAM

CIVIL ENGINEER EBI CONSULTING

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SURVEYOR

SOURCE: MASSGIS

GRADY CONSULTING, LLC. 71 EVERGREEN STREET, SUITE 1 KINGSTON, MA 02364 Tel: (781)585-2300

LANDSCAPE ARCHITECT J MILLER LANDSCAPE ARCHITECTURE 2095 VT ROUTE 18 WATERFORD, VT 05819 TEL: (802) 535 - 8586

GEOTECHNICAL ENGINEER CHARLES H. GROSS, PE, LLC 223 LIBERTY CIRCLE HANSON, MA 02341 TEL: (617) 909 - 5180

SUBMISSION INFO

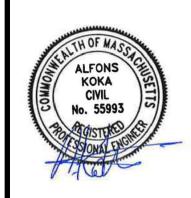
ISSUED FOR: LOCAL APPROVALS DATE ISSUED: JANUARY 18, 2023

WAIVER REQUESTS

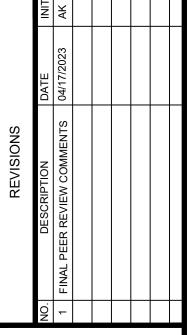
- 4.22 A TRAFFIC IMPACT STUDY SHALL BE PREPARED
- 5.1.2 A THREE (3) FOOT WIDE LANDSCAPING STRIP SHALL BE PROVIDED ALONG THE FOUNDATION WALLS TO SOFTEN THE APPEARANCE FOR ALL RESIDENTIAL BUILDING(S)
- 5.6.2 CURBING SHALL NOT BE BITUMINOUS CONCRETE.
- 5.9.9 A MINIMUM OF 50% OF THE BUILDING'S STREET SIDE FACADE SHALL CONTAIN WINDOWS. THE WINDOWS SHALL BE DIVIDED BY MUNTINS AND FRAMED WITH A CASING TRIM; AWNINGS SHOULD BE DESIGNED AS AN INTEGRAL PART OF THE BUILDING FACADE; METAL AWNINGS ARE NOT ALLOWED.

DEVELOPMENT IMPACT STATEMENT

EBI



PERMIT





GENERAL NOTES

REGULATION SHALL GOVERN.

NOTE: CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH THE NOTES AND SPECIFICATIONS CONTAINED HEREIN. CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL SUBCONTRACTORS FULLY AND COMPLETELY CONFORM TO AND COMPLY WITH THESE REQUIREMENTS.

- CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, COUNTY, LOCAL AND OSHA CODES, MANDATED REGULATIONS AND REQUIREMENTS. THE MOST STRINGENT
- 2. CONTRACTOR SHALL KEEP AN ACCURATE SET OF 'AS-BUILT' PLANS
- . ALL ACCESSIBLE PARKING SPACES SHALL BE CONSTRUCTED TO MEET, AT A MINIMUM, THE MORE STRINGENT OF THE REQUIREMENTS OF THE "AMERICANS WITH DISABILITIES ACT" (ADA) CODE OR THE REQUIREMENTS OF THE JURISDICTION WHERE THE PROJECT SHALL BE CONSTRUCTED.
- I. PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED THE COMMENTS TO ALL PLANS AND OTHER DOCUMENTS REVIEWED AND APPROVED BY THE PERMITTING AUTHORITIES AND CONFIRMED THAT ALL NECESSARY OR REQUIRED PERMITS HAVE BEEN OBTAINED. CONTRACTOR SHALL HAVE COPIES OF ALL PERMITS AND APPROVALS ON SITE AT ALL TIMES.
- THE OWNER/CONTRACTOR SHALL BE FAMILIAR WITH AND RESPONSIBLE FOR THE PROCUREMENT OF ANY AND ALL CERTIFICATIONS REQUIRED FOR THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS, SPECIFICATIONS AND CONDITIONS OF APPROVAL, AND ALL APPLICABLE REQUIREMENTS, RULES, REGULATIONS, STATUTORY REQUIREMENTS, CODES, LAWS AND STANDARDS OF ALL GOVERNMENTAL ENTITIES WITH JURISDICTION OVER THIS PROJECT.
- THE GEOTECHNICAL REPORT AND RECOMMENDATIONS INCLUDED IN SAID REPORT ARE A PART OF THE CONSTRUCTION DOCUMENTS AND, IN CASE OF CONFLICT OR DISCREPANCY, THE MORE STRINGENT REQUIREMENTS CONTAINED IN THE PLANS AND THE GEOTECHNICAL REPORT SHALL TAKE PRECEDENCE UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER, IN WRITING, OF ANY SUCH CONFLICT, DISCREPANCY OR AMBIGUITY BETWEEN THE GEOTECHNICAL REPORTS AND PLANS AND SPECIFICATIONS PRIOR TO PROCEEDING WITH ANY FURTHER WORK.
- THESE PLANS ARE BASED ON INFORMATION PROVIDED TO THE ENGINEER BY THE OWNER AND OTHERS PRIOR TO THE TIME OF PLAN PREPARATION. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND NOTIFY THE ENGINEER, IN WRITING, IF ACTUAL SITE CONDITIONS DIFFER FROM THOSE SHOWN ON THE PLAN, OR IF THE PROPOSED WORK CONFLICTS WITH ANY OTHER SITE FEATURES.
- ALL DIMENSIONS SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER, IN WRITING, IF ANY CONFLICTS, DISCREPANCIES, OR AMBIGUITIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR WORK WHICH HAS TO BE REDONE OR REPAIRED DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS PRIOR TO CONTRACTOR GIVING ENGINEER WRITTEN NOTIFICATION OF SAME AND ENGINEER. THEREAFTER, PROVIDING CONTRACTOR WITH WRITTEN AUTHORIZATION TO PROCEED WITH SUCH ADDITIONAL WORK
- 10. CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF ENTRY/EXIT POINTS. ELEVATIONS. PRECISE BUILDING DIMENSIONS, AND EXACT BUILDING UTILITY LOCATIONS.
- 1. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE THE BUILDING LAYOUT BY CAREFUL REVIEW OF THE ENTIRE SITE PLAN AND THE LATEST ARCHITECTURAL PLANS (INCLUDING, BUT NOT LIMITED TO, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND FIRE SUPPRESSION PLAN, WHERE APPLICABLE). CONTRACTOR SHALL IMMEDIATELY NOTIFY OWNER, ARCHITECT AND SITE ENGINEER, IN WRITING, OF ANY CONFLICTS, DISCREPANCIES OR AMBIGUITIES WHICH EXIST.
- 12. DEBRIS SHALL NOT BE BURIED ON THE SUBJECT SITE AND ALL UNSUITABLE EXCAVATED MATERIAL AND DEBRIS (SOLID WASTE) SHALL BE DISPOSED OF IN ACCORDANCE WITH THE REQUIREMENTS OF ANY AND ALL GOVERNMENTAL AUTHORITIES WHICH HAVE JURISDICTION OVER THIS PROJECT OR OVER CONTRACTOR.
- 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING WHEN SHORING IS REQUIRED AND FOR INSTALLING ALL SHORING REQUIRED DURING EXCAVATION (TO BE PERFORMED IN ACCORDANCE WITH CURRENT OSHA STANDARDS) AND ANY ADDITIONAL PRECAUTIONS TO BE TAKEN TO ASSURE THE STABILITY OF ADJACENT, NEARBY AND CONTIGUOUS STRUCTURES AND PROPERTIES.
- 14. THE CONTRACTOR SHALL EXERCISE EXTREME CARE WHEN PERFORMING ANY WORK ACTIVITIES ADJACENT TO PAVEMENT, STRUCTURES, ETC. WHICH ARE TO REMAIN EITHER FOR AN INITIAL PHASE OF THE PROJECT OR AS PART OF THE FINAL CONDITION. CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING ALL APPROPRIATE MEASURES REQUIRED TO ENSURE THE STRUCTURAL STABILITY OF SIDEWALKS AND PAVEMENT, UTILITIES, BUILDINGS, AND INFRASTRUCTURE WHICH ARE TO REMAIN, AND TO PROVIDE A SAFE WORK AREA FOR THIRD PARTIES, PEDESTRIANS AND ANYONE INVOLVED WITH THE PROJECT.
- 15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE DONE TO ANY NEW OR EXISTING CONSTRUCTION OR PROPERTY DURING THE COURSE OF CONSTRUCTION, INCLUDING BUT NOT LIMITED TO DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURB, ETC. AND SHALL BEAR ALL COSTS ASSOCIATED WITH SAME TO INCLUDE, BUT NOT BE LIMITED TO, REDESIGN, RE-SURVEY, RE-PERMITTING AND CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND SHALL REPLACE ALL SIGNAL INTERCONNECTION CABLE, WIRING CONDUITS, AND ANY UNDERGROUND ACCESSORY EQUIPMENT DAMAGED DURING CONSTRUCTION AND SHALL BEAR ALL COSTS ASSOCIATED WITH SAME. THE REPAIR OF ANY SUCH NEW OR EXISTING CONSTRUCTION OR PROPERTY SHALL RESTORE SUCH CONSTRUCTION OR PROPERTY TO A CONDITION EQUIVALENT TO OR BETTER THAN THE CONDITIONS PRIOR TO COMMENCEMENT OF THE CONSTRUCTION, AND IN CONFORMANCE WITH APPLICABLE CODES, LAWS RULES, REGULATIONS, STATUTORY REQUIREMENTS AND STATUTES. CONTRACTOR SHALL BEAR ALL COSTS ASSOCIATED WITH SAME. CONTRACTOR IS RESPONSIBLE TO DOCUMENT ALL EXISTING DAMAGE AND TO NOTIFY THE OWNER AND THE CONSTRUCTION MANAGER PRIOR TO THE START OF CONSTRUCTION.
- 16. ALL CONCRETE SHALL BE AIR ENTRAINED AND HAVE THE MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS UNLESS OTHERWISE NOTED ON THE PLANS, DETAILS AND/OR GEOTECHNICAL REPORT.
- 17. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION METHODS, MEANS, TECHNIQUES OR PROCEDURES, GENERALLY OR FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES OR PROCEDURES FOR COMPLETION OF THE WORK DEPICTED BOTH ON THESE PLANS, AND FOR ANY CONFLICTS/SCOPE REVISIONS WHICH RESULT FROM SAME. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE METHODS/MEANS FOR COMPLETION OF THE WORK PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- 18. THE ENGINEER OF RECORD SHALL NOT BE RESPONSIBLE FOR JOB SITE SAFETY. THE ENGINEER OF RECORD HAS NOT BEEN RETAINED TO PERFORM OR BE RESPONSIBLE FOR JOB SITE SAFETY, SAME BEING WHOLLY OUTSIDE OF ENGINEER'S SERVICES AS RELATED TO THE PROJECT. THE ENGINEER OF RECORD SHALL NOT BE RESPONSIBLE TO IDENTIFY OR REPORT ANY JOB SITE SAFETY ISSUES. AT ANY TIME.
- 19. THE ENGINEER WILL REVIEW THE CONTRACTOR SUBMITTALS, SUCH AS SHOP DRAWINGS, PRODUCT DATA, SAMPLES, AND OTHER DATA, WHICH THE CONTRACTOR SHALL BE REQUIRED TO SUBMIT. THIS REVIEW IS FOR THE LIMITED PURPOSE OF CHECKING FOR CONFORMANCE WITH THE DESIGN INTENT AND THE INFORMATION SHOWN IN THE CONSTRUCTION CONTRACT DOCUMENTS. CONSTRUCTION MEANS AND/OR METHODS AND/OR TECHNIQUES OR PROCEDURES, COORDINATION OF THE WORK WITH OTHER TRADES, AND CONSTRUCTION SAFETY PRECAUTIONS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE ENGINEER HAS NO RESPONSIBILITY OR LIABILITY FOR SAME HEREUNDER. THE ENGINEERS SHOP DRAWING REVIEW WILL BE CONDUCTED WITH REASONABLE PROMPTNESS WHILE ALLOWING SUFFICIENT TIME TO PERMIT ADEQUATE REVIEW. REVIEW OF A SPECIFIC ITEM SHALL NOT INDICATE THAT THE ENGINEER HAS REVIEWED THE ENTIRE ASSEMBLY OF WHICH THE ITEM IS A COMPONENT. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS NOT PROMPTLY AND IMMEDIATELY BROUGHT TO ITS ATTENTION, IN WRITING, BY THE CONTRACTOR. THE ENGINEER WILL NOT BE REQUIRED TO REVIEW PARTIAL SUBMISSIONS OR THOSE FOR WHICH SUBMISSIONS OF CORRELATED ITEMS HAVE NOT BEEN RECEIVED.
- 20. IF THE CONTRACTOR DEVIATES FROM THE PLANS AND SPECIFICATIONS, INCLUDING THE NOTES CONTAINED HEREIN, WITHOUT FIRST OBTAINING THE PRIOR WRITTEN AUTHORIZATION OF THE ENGINEER FOR SUCH DEVIATIONS, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE PAYMENT OF ALL COSTS INCURRED IN CORRECTING ANY WORK DONE WHICH DEVIATES FROM THE PLANS, ALL FINES AND/OR PENALTIES ASSESSED WITH RESPECT THERETO AND ALL COMPENSATORY OR PUNITIVE DAMAGES RESULTING THEREFROM AND, FURTHER, SHALL DEFEND, INDEMNIFY AND HOLD HARMLESS THE ENGINEER, TO THE FULLEST EXTENT PERMITTED UNDER THE LAW, FOR AND FROM ALL FEES, ATTORNEYS' FEES, DAMAGES, COSTS, JUDGMENTS, PENALTIES AND THE LIKE RELATED TO SAME.
- 21. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND PROTECTION OF TRAFFIC PLAN FOR ALL WORK THAT AFFECTS PUBLIC TRAVEL EITHER IN THE R.O.W. OR ON SITE. THE COST FOR THIS ITEM SHALL BE INCLUDED IN THE CONTRACTOR'S PRICE.
- 22. ALL SIGNING AND PAVEMENT STRIPING SHALL CONFORM TO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES OR LOCALLY APPROVED SUPPLEMENT.
- 23. ENGINEER IS NOT RESPONSIBLE FOR ANY INJURY OR DAMAGES RESULTING FROM CONTRACTOR'S FAILURE TO BUILD OR CONSTRUCT IN STRICT ACCORDANCE WITH THE APPROVED PLANS. IF CONTRACTOR AND/OR OWNER FAIL TO BUILD OR CONSTRUCT IN STRICT ACCORDANCE WITH APPROVED PLANS, THEY AGREE TO JOINTLY AND SEVERALLY INDEMNIFY AND HOLD ENGINEER HARMLESS FOR ALL INJURIES AND DAMAGES THAT ENGINEER SUFFERS AND COSTS THAT ENGINEER INCURS.
- 24. OWNER SHALL MAINTAIN AND PRESERVE ALL PHYSICAL SITE FEATURES AND DESIGN FEATURES DEPICTED ON THE PLANS AND RELATED DOCUMENTS, IN STRICT ACCORDANCE WITH THE APPROVED PLAN(S) AND DESIGN AND, FURTHER ENGINEER SHALL NOT BE RESPONSIBLE FOR ANY FAILURE TO SO MAINTAIN OR PRESERVE SITE AND/OR DESIGN FEATURES. IF OWNER FAILS TO MAINTAIN AND/OR PRESERVE ALL PHYSICAL SITE FEATURES AND/OR DESIGN FEATURES DEPICTED ON THE PLANS AND RELATED DOCUMENTS, OWNER AGREES TO INDEMNIFY AND HOLD ENGINEER HARMLESS FOR ALL INJURIES AND DAMAGES THAT ENGINEER SUFFERS AND COSTS THAT ENGINEER INCURS AS A RESULT OF SAID FAILURE.
- 25. ALL DIMENSIONS SHALL BE TO FACE OF CURB, EDGE OF PAVEMENT, OR EDGE OF BUILDING, UNLESS NOTED OTHERWISE.
- 26. ALL CONSTRUCTION AND MATERIALS SHALL COMPLY WITH AND CONFORM TO APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS, LAWS, ORDINANCES, RULES AND CODES, AND ALL APPLICABLE OSHA REQUIREMENTS.
- 27. CONTRACTOR AND OWNER SHALL INSTALL ALL ELEMENTS AND COMPONENTS IN STRICT COMPLIANCE WITH AND ACCORDANCE WITH MANUFACTURER'S STANDARDS AND RECOMMENDED INSTALLATION CRITERIA AND SPECIFICATIONS. IF CONTRACTOR AND/OR OWNER FAIL TO DO SO, THEY AGREE TO JOINTLY AND SEVERALLY INDEMNIFY AND HOLD ENGINEER HARMLESS FOR ALL INJURIES AND DAMAGES THAT ENGINEER SUFFERS AND COSTS THAT ENGINEER INCURS AS A RESULT OF SAID FAILURE.
- 28. CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN ON-SITE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IN COMPLIANCE WITH EPA REQUIREMENTS FOR SITES WHERE ONE (1) ACRE OR MORE (UNLESS THE LOCAL JURISDICTION REQUIRES FEWER) IS DISTURBED BY CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL ACTIVITIES, INCLUDING THOSE OF SUBCONTRACTORS, ARE IN COMPLIANCE WITH THE SWPPP, INCLUDING BUT NOT LIMITED TO LOGGING ACTIVITIES (MINIMUM ONCE PER WEEK AND AFTER RAINFALL EVENTS) AND CORRECTIVE MEASURES. AS APPROPRIATE.
- 29. AS CONTAINED IN THESE DRAWINGS AND ASSOCIATED APPLICATION DOCUMENTS PREPARED BY THE SIGNATORY PROFESSIONAL ENGINEER, THE USE OF THE WORDS CERTIFY OR CERTIFICATION CONSTITUTES AN EXPRESSION OF "PROFESSIONAL OPINION" REGARDING THE INFORMATION WHICH IS THE SUBJECT OF THE UNDERSIGNED PROFESSIONAL'S KNOWLEDGE OR BELIEF AND IN ACCORDANCE WITH COMMON ACCEPTED PROCEDURE CONSISTENT WITH THE APPLICABLE STANDARDS OF PRACTICE, AND DOES NOT CONSTITUTE A WARRANTY OR GUARANTEE, EITHER EXPRESSED OR IMPLIED.

GENERAL DEMOLITION NOTES

- CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970, AS AMENDED AND ANY MODIFICATIONS, AMENDMENTS OR REVISIONS TO SAME.
- 2. THE ENGINEER G HAS NO CONTRACTUAL, LEGAL, OR OTHER RESPONSIBILITY FOR JOB SITE SAFETY OR JOB SITE SUPERVISION, OR ANYTHING RELATED TO SAME.
- THE DEMOLITION PLAN IS INTENDED TO PROVIDE GENERAL INFORMATION, ONLY, REGARDING ITEMS TO BE DEMOLISHED AND/OR REMOVED. THE CONTRACTOR SHALL ALSO REVIEW THE OTHER SITE PLAN DRAWINGS AND INCLUDE IN DEMOLITION ACTIVITIES ALL INCIDENTAL WORK NECESSARY FOR THE CONSTRUCTION OF THE NEW SITE IMPROVEMENTS.
- CONTRACTOR SHALL RAISE ANY QUESTIONS CONCERNING THE ACCURACY OR INTENT OF THESE PLANS OR SPECIFICATIONS, CONCERNS REGARDING THE APPLICABLE SAFETY STANDARDS, OR THE SAFETY OF THE CONTRACTOR OR THIRD PARTIES IN PERFORMING THE WORK ON THIS PROJECT, WITH THE ENGINEER, IN WRITING, AND RESPONDED TO BY THE ENGINEER, IN WRITING, PRIOR TO THE INITIATION OF ANY SITE ACTIVITY AND ANY DEMOLITION ACTIVITY. ALL DEMOLITION ACTIVITIES SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THESE PLANS AND SPECIFICATIONS AND ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS, RULES, REQUIREMENTS, STATUTES, ORDINANCES AND CODES.
- 5. PRIOR TO STARTING ANY DEMOLITION, CONTRACTOR SHALL BE RESPONSIBLE FOR/TO:
- A. OBTAINING ALL REQUIRED PERMITS AND MAINTAINING THE SAME ON SITE FOR REVIEW BY THE ENGINEER AND OTHER PUBLIC AGENCIES WITH JURISDICTION THROUGHOUT THE DURATION OF THE PROJECT, SITE WORK, AND DEMOLITION WORK
- B. NOTIFYING, AT A MINIMUM, THE MUNICIPAL ENGINEER, DESIGN ENGINEER, AND LOCAL SOIL CONSERVATION DISTRICT, 72 HOURS PRIOR TO THE START OF WORK.
- C. INSTALLING THE REQUIRED SOIL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO SITE DISTURBANCE.
- D. IN ACCORDANCE WITH STATE LAW, THE CONTRACTOR SHALL CALL THE STATE ONE-CALL DAMAGE PROTECTION SYSTEM FOR UTILITY MARKOUT, IN ADVANCE OF ANY EXCAVATION.
- E. LOCATING AND PROTECTING ALL UTILITIES AND SERVICES, INCLUDING BUT NOT LIMITED TO GAS, WATER, ELECTRIC. SANITARY AND STORMWATER, TELEPHONE, CABLE, FIBER OPTIC CABLE, ETC. WITHIN AND ADJACENT TO THE LIMITS OF PROJECT ACTIVITIES. THE CONTRACTOR SHALL USE AND COMPLY WITH THE REQUIREMENTS OF THE APPLICABLE UTILITY NOTIFICATION SYSTEM TO LOCATE ALL THE UNDERGROUND UTILITIES.
- F. PROTECTING AND MAINTAINING IN OPERATION, ALL ACTIVE UTILITIES AND SYSTEMS THAT ARE NOT BEING REMOVED DURING ALL DEMOLITION ACTIVITIES.
- G. ARRANGING FOR AND COORDINATING WITH THE APPLICABLE UTILITY SERVICE PROVIDER(S) FOR THE TEMPORARY OR PERMANENT TERMINATION OF SERVICE REQUIRED BY THE PROJECT PLANS AND SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE THE UTILITY ENGINEER AND OWNER WRITTEN NOTIFICATION THAT THE EXISTING UTILITIES AND SERVICES HAVE BEEN TERMINATED AND ABANDONED IN ACCORDANCE WITH JURISDICTIONAL AND UTILITY COMPANY REQUIREMENTS.
- H. COORDINATION WITH UTILITY COMPANIES REGARDING WORKING "OFF-PEAK" HOURS OR ON WEEKENDS AS MAY BE REQUIRED TO MINIMIZE THE IMPACT ON THE AFFECTED PARTIES. WORK REQUIRED TO BE DONE "OFF-PEAK" IS TO BE DONE AT NO ADDITIONAL COST TO THE OWNER.
- I. IN THE EVENT THE CONTRACTOR DISCOVERS ANY HAZARDOUS MATERIAL, THE REMOVAL OF WHICH IS NOT ADDRESSED IN THE PROJECT PLANS AND SPECIFICATIONS, THE CONTRACTOR SHALL IMMEDIATELY CEASE ALL WORK AND IMMEDIATELY NOTIFY THE OWNER AND ENGINEER OF THE DISCOVERY OF SUCH MATERIALS.
- THE FIRM OR ENGINEER OF RECORD IS NOT RESPONSIBLE FOR JOB SITE SAFETY OR SUPERVISION. CONTRACTOR SHALL PROCEED WITH THE DEMOLITION IN A SYSTEMATIC AND SAFE MANNER, FOLLOWING ALL THE OSHA REQUIREMENTS, TO ENSURE PUBLIC AND CONTRACTOR SAFETY.
- THE CONTRACTOR SHALL PROVIDE ALL "MEANS AND METHODS" NECESSARY TO PREVENT MOVEMENT, SETTLEMENT, OR COLLAPSE OF EXISTING STRUCTURES, AND ANY OTHER IMPROVEMENTS THAT ARE REMAINING ON OR OFF SITE. THE CONTRACTOR IS RESPONSIBLE FOR ALL REPAIRS OF DAMAGE TO ALL ITEMS THAT ARE TO REMAIN. CONTRACTOR SHALL USE NEW MATERIAL FOR ALL REPAIRS. CONTRACTOR'S REPAIR SHALL INCLUDE THE RESTORATION OF ANY ITEMS REPAIRED TO THE PRE-DEMOLITION CONDITION, OR BETTER. CONTRACTOR SHALL PERFORM ALL REPAIRS AT THE CONTRACTOR'S SOLE EXPENSE.
- THE CONTRACTOR SHALL NOT PERFORM ANY EARTH MOVEMENT ACTIVITIES, DEMOLITION OR REMOVAL OF FOUNDATION WALLS, FOOTINGS, OR OTHER MATERIALS WITHIN THE LIMITS OF DISTURBANCE UNLESS SAME IS IN STRICT ACCORDANCE AND CONFORMANCE WITH THE PROJECT PLANS AND SPECIFICATIONS, AND/OR UNDER THE WRITTEN DIRECTION OF THE OWNER'S STRUCTURAL OR GEOTECHNICAL ENGINEER.
- CONTRACTOR SHALL BACKFILL ALL EXCAVATION RESULTING FROM, OR INCIDENTAL TO, DEMOLITION ACTIVITIES. BACKFILL SHALL BE ACCOMPLISHED WITH APPROVED BACKFILL MATERIALS. AND SHALL BE SUFFICIENTLY COMPACTED TO SUPPORT NEW IMPROVEMENTS AND PERFORMED IN COMPLIANCE WITH THE RECOMMENDATIONS AND GUIDANCE IN THE GEOTECHNICAL REPORT. BACKFILLING SHALL OCCUR IMMEDIATELY AFTER DEMOLITION ACTIVITIES, AND SHALL BE DONE SO AS TO PREVENT WATER ENTERING THE EXCAVATION. FINISHED SURFACES SHALL BE GRADED TO PROMOTE POSITIVE DRAINAGE.
- 11. EXPLOSIVES SHALL NOT BE USED WITHOUT PRIOR WRITTEN CONSENT OF BOTH THE OWNER AND ALL APPLICABLE GOVERNMENTAL AUTHORITIES. ALL THE REQUIRED PERMITS AND EXPLOSIVE CONTROL MEASURES THAT ARE REQUIRED BY THE FEDERAL, STATE, AND LOCAL GOVERNMENTS SHALL BE IN PLACE PRIOR TO CONTRACTOR STARTING AN EXPLOSIVE PROGRAM AND/OR ANY DEMOLITION. THE CONTRACTOR IS ALSO RESPONSIBLE FOR ALL INSPECTION AND SEISMIC VIBRATION TESTING THAT IS REQUIRED TO MONITOR THE EFFECTS ON ALL LOCAL STRUCTURES.
- 12. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL AND GENERALLY ACCEPTED SAFE PRACTICES IN CONFORMANCE WITH THE CURRENT FHWA "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), AND THE FEDERAL, STATE, AND LOCAL REGULATIONS WHEN DEMOLITION RELATED ACTIVITIES IMPACT ROADWAYS AND/OR ROADWAY RIGHT-OF-WAY.
- 13. CONTRACTOR SHALL CONDUCT DEMOLITION ACTIVITIES IN SUCH A MANNER TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, SIDEWALKS, WALKWAYS, AND OTHER ADJACENT FACILITIES. STREET CLOSURE PERMITS SHALL BE RECEIVED FROM THE APPROPRIATE GOVERNMENTAL AUTHORITY PRIOR TO THE COMMENCEMENT OF ANY ROAD OPENING OR DEMOLITION ACTIVITIES IN OR ADJACENT TO THE RIGHT-OF-WAY.
- 14. DEMOLITION ACTIVITIES AND EQUIPMENT SHALL NOT USE AREAS OUTSIDE THE DEFINED PROJECT LIMIT LINE, WITHOUT WRITTEN PERMISSION OF THE OWNER AND ALL GOVERNMENTAL AGENCIES WITH JURISDICTION.
- 15. THE CONTRACTOR SHALL USE DUST CONTROL MEASURES TO LIMIT AIRBORNE DUST AND DIRT RISING AND SCATTERING IN THE AIR IN ACCORDANCE WITH FEDERAL, STATE, AND/OR LOCAL STANDARDS. AFTER THE DEMOLITION IS COMPLETE. CONTRACTOR SHALL CLEAN ALL ADJACENT STRUCTURES AND IMPROVEMENTS TO REMOVE ALL DUST AND DEBRIS CAUSED BY THE DEMOLITION OPERATIONS. THE CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL ADJACENT AREAS TO THEIR "PRE-DEMOLITION" CONDITION.
- 16. CONTRACTOR IS RESPONSIBLE TO SAFEGUARD THE SITE AS NECESSARY TO PERFORM THE DEMOLITION IN SUCH A MANNER AS TO PREVENT THE ENTRY OF UNAUTHORIZED PERSONS AT ANY TIME.
- 17. CONTRACTOR IS RESPONSIBLE FOR SITE JOB SAFETY, WHICH SHALL INCLUDE, BUT NOT BE LIMITED TO, THE INSTALLATION AND MAINTENANCE OF BARRIERS, FENCING AND OTHER APPROPRIATE SAFETY ITEMS NECESSARY TO PROTECT THE PUBLIC FROM AREAS OF CONSTRUCTION AND CONSTRUCTION ACTIVITY.
- THIS DEMOLITION PLAN IS INTENDED TO IDENTIFY THOSE EXISTING ITEMS/CONDITIONS WHICH ARE TO BE REMOVED. IT IS NOT INTENDED TO PROVIDE DIRECTION AS TO THE MEANS, METHODS, SEQUENCING, TECHNIQUES AND PROCEDURES TO BE USED TO ACCOMPLISH THAT WORK. ALL MEANS, METHODS, SEQUENCING, TECHNIQUES AND PROCEDURES TO BE USED SHALL BE IN STRICT ACCORDANCE WITH ALL STATE, FEDERAL, LOCAL, AND JURISDICTIONAL REQUIREMENTS. THE CONTRACTOR SHALL COMPLY WITH ALL OSHA AND OTHER SAFETY PRECAUTIONS NECESSARY TO PROVIDE A SAFE WORK
- 19. DEBRIS SHALL NOT BE BURIED ON THE SUBJECT SITE. ALL DEMOLITION WASTES AND DEBRIS (SOLID WASTE) SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL MUNICIPAL, COUNTY, STATE, AND FEDERAL LAWS AND APPLICABLE CODES. THE CONTRACTOR SHALL MAINTAIN RECORDS TO DEMONSTRATE PROPER DISPOSAL ACTIVITIES. TO BE PROMPTLY PROVIDED TO THE OWNER UPON REQUEST.
- CONTRACTOR SHALL MAINTAIN A RECORD SET OF PLANS UPON WHICH IS INDICATED THE LOCATION OF EXISTING UTILITIES THAT ARE CAPPED, ABANDONED IN PLACE, OR RELOCATED DUE TO DEMOLITION ACTIVITIES. THIS RECORD DOCUMENT SHALL BE PREPARED IN A NEAT AND WORKMAN-LIKE MANNER, AND TURNED OVER TO THE OWNER/DEVELOPER UPON COMPLETION OF THE WORK.

GRADING & UTILITY PLAN NOTES

- 2. CONTRACTOR SHALL VERTICALLY AND HORIZONTALLY LOCATE ALL UTILITIES AND SERVICES INCLUDING, BUT NOT LIMITED TO, GAS, WATER, ELECTRIC, SANITARY SEWER AND STORMWATER, TELEPHONE, CABLE, FIBER OPTIC CABLE, ETC. WITHIN THE LIMITS OF DISTURBANCE OR WORK SPACE, WHICHEVER IS GREATER. THE CONTRACTOR SHALL USE, REFER TO, AND COMPLY WITH THE REQUIREMENTS OF THE APPLICABLE UTILITY NOTIFICATION SYSTEM TO LOCATE ALL THE UNDERGROUND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ALL DAMAGE TO ANY EXISTING UTILITIES DURING CONSTRUCTION, AT NO COST TO THE OWNER.
- CODES AND, FURTHER, CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH SAME.
- ALL ACTIVE AND INACTIVE SYSTEMS THAT ARE NOT BEING REMOVED/RELOCATED DURING SITE ACTIVITY.
- THE CONTRACTOR SHALL FAMILIARIZE ITSELF WITH THE APPLICABLE UTILITY SERVICE PROVIDER REQUIREMENTS AND SHALL BE RESPONSIBLE FOR ALL COORDINATION REGARDING UTILITY DEMOLITION AS IDENTIFIED OR REQUIRED FOR THE PROJECT. TH TERMINATED AND ARANDONED IN ACCORDANCE WITH THE JURISDICTION AND UTILITY COMPANY REQUIREMENTS AND ALL OTHER APPLICABLE REQUIREMENTS RULES STATUTES LAWS ORDINANCES AND CODES
- 6. THE CONTRACTOR SHALL INSTALL ALL STORM SEWER AND SANITARY SEWER COMPONENTS WHICH FUNCTION BY GRAVITY PRIOR TO THE INSTALLATION OF ALL OTHER UTILITIES
- 7. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF SITE PLAN DOCUMENTS AND ARCHITECTURAL DESIGN FOR EXACT BUILDING UTILITY CONNECTION LOCATIONS, GREASE TRAP REQUIREMENTS/DETAILS, DOOR ACCESS, AND EXTERIOR GRADING. THE ARCHITECT WILL DETERMINE THE UTILITY SERVICE SIZES. THE CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES/SERVICES WITH THE INDIVIDUAL COMPANIES. TO AVOID CONFLICTS AND TO ENSURE THAT PROPER DEPTHS ARE ACHIEVED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT INSTALLATION OF ALL IMPROVEMENTS COMPLIES WITH ALL UTILITY REQUIREMENTS WITH JURISDICTION AND/OR CONTROL OF THE SITE, AND ALL OTHER APPLICABLE REQUIREMENTS, RULES, STATUTES, LAWS, ORDINANCES AND CODES AND FURTHER SHALL BE RESPONSIBLE FOR COORDINATING THE UTILITY TIF-INS/CONNECTIONS PRIOR TO CONNECTING TO THE EXISTING UTILITY/SERVICE. WHERE A CONFLICT(S) EXISTS BETWEEN THESE SITE PLANS AND THE ARCHITECTURAL PLANS, OR WHERE ARCHITECTURAL PLAN UTILITY CONNECTION POINTS DIFFER, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER, IN WRITING AND PRIOR TO CONSTRUCTION, RESOLVE SAME.
- 8. WATER LINE MATERIALS, BURIAL DEPTH, AND COVER REQUIREMENTS SHALL BE SPECIFIED BY THE LOCAL UTILITY COMPANY. CONTRACTOR'S PRICE FOR WATER LINE SHALL INCLUDE ALL FEES, COSTS AND APPURTENANCES REQUIRED BY THE UTILITY TO PROVIDE FULL AND COMPLETE WORKING SERVICE. CONTRACTOR SHALL CONTACT THE APPLICABLE MUNICIPALITY TO CONFIRM THE PROPER
- 10. SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL REPORT REFERENCED IN THIS PLAN SET. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REPLACING UNSUITABLE MATERIALS WITH SUITABLE MATERIALS AS SPECIFIED IN THE GEOTECHNICAL REPORT. ALL EXCAVATED OR FILLED AREAS SHALL BE COMPACTED AS OUTLINED IN THE GEOTECHNICAL REPORT. MOISTURE CONTENT AT TIME OF PLACEMENT SHALL BE SUBMITTED IN A COMPACTION REPORT PREPARED BY A QUALIFIED GEOTECHNICAL ENGINEER, REGISTERED WITH THE STATE WHERE THE WORK IS PERFORMED. VERIFYING THAT ALL FILLED AREAS AND SUBGRADE AREAS WITHIN THE BUILDING PAD AREA AND AREAS TO BE PAVED HAVE BEEN COMPACTED IN ACCORDANCE WITH THESE PLANS. SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL REPORT AND ALL APPLICABLE REQUIREMENTS. RULES, STATUTES, LAWS, ORDINANCES AND CODES. SUBBASE MATERIAL FOR SIDEWALKS, CURB, OR ASPHALT SHALL BE FREE OF ORGANICS AND OTHER UNSUITABLE MATERIALS. SHOULD SUBBASE BE DEEMED UNSUITABLE BY OWNER/DEVELOPER. OR OWNER/DEVELOPER'S REPRESENTATIVE. SUBBASE SHALL BE REMOVED AND FILLED WITH APPROVED FILL MATERIAL COMPACTED AS DIRECTED BY THE GEOTECHNICAL REPORT. EARTHWORK ACTIVITIES INCLUDING. BUT NOT LIMITED TO EXCAVATION BACKELL AND COMPACTING SHALL COMPLY WITH THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT AND ALL APPLICABLE REQUIREMENTS. RULES. STATUTES. LAWS. ORDINANCES AND CODES. EARTHWORK ACTIVITIES SHALL COMPLY WITH THE STANDARD STATE DOT SPECIFICATIONS FOR ROADWAY CONSTRUCTION (LATEST EDITION) AND ANY AMENDMENTS OR REVISIONS
- 11. ALL FILL COMPACTION, AND BACKFILL MATERIALS REQUIRED FOR UTILITY INSTALLATION. SHALL BE PER THE RECOMMENDATIONS PROVIDED IN THE GEOTECHNICAL REPORT AND SHALL BE COORDINATED WITH THE APPLICABLE UTILITY COMPANY SPECIFICATIONS. WHEN THE PROJECT DOES NOT HAVE GEOTECHNICAL RECOMMENDATIONS. FILL AND COMPACTION SHALL, AT A MINIMUM, COMPLY WITH THE STATE DOT REQUIREMENTS AND SPECIFICATIONS AND CONSULTANT SHALL HAVE NO LIABILITY OR RESPONSIBILITY FOR OR AS RELATED TO FILL, COMPACTION AND BACKFILL. FURTHER, CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR EARTHWORK BALANCE.
- 12. THE CONTRACTOR SHALL COMPLY, TO THE FULLEST EXTENT, WITH THE LATEST OSHA STANDARDS AND REGULATIONS, AND/OR ANY OTHER AGENCY WITH JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR SHALL RESPONSIBLE FOR DETERMINING THE "MEANS AND METHODS" REQUIRED TO MEET THE INTENT AND PERFORMANCE CRITERIA OF OSHA, AS WELL AS ANY OTHER ENTITY THAT HAS JURISDICTION FOR EXCAVATION AND/OR TRENCHING PROCEDURES AND CONSULTANT SHALL HAVE NO RESPONSIBILITY FOR OR AS RELATED FOR OR AS RELATED TO EXCAVATION AND TRENCHING PROCEDURES.
- 13. PAVEMENT SHALL BE SAW CUT IN STRAIGHT LINES. AND EXCEPT FOR EDGE OF BUTT JOINTS. SHALL EXTEND TO THE FULL DEPTH OF THE PAVEMENT. ALL DEBRIS FROM REMOVAL OPERATIONS SHALL BE REMOVED FROM THE SITE AT THE TIME OF EXCAVATIO STOCKPILING OF DEBRIS SHALL NOT BE PERMITTED.
- 15. DURING THE INSTALLATION OF ALL UTILITIES, THE CONTRACTOR SHALL MAINTAIN A CONTEMPORANEOUS AND THOROUGH RECORD OF COMPLETION OF WORK
- 16. WHEN THE SITE IMPROVEMENT PLANS INVOLVE MULTIPLE BUILDINGS. SOME OF WHICH MAY BE BUILT AT A LATER DATE. THE CONTRACTOR SHALL EXTEND ALL LINES, INCLUDING BUT NOT LIMITED TO STORMWATER, SANITARY SEWER, UTILITIES, AND IRRIGATION LINE, TO A POINT AT LEAST FIVE (5) FEET REYOND THE PAVED AREAS FOR WHICH THE CONTRACTOR SHALL BE RESPONSIBLE. CONTRACTOR SHALL CAP ENDS AS APPROPRIATE, MARK LOCATIONS WITH A 2X4, AND SHALL NOTE THE LOCATION OF ALL OF THE ABOVE ON A CLEAN COPY OF THE
- ANY DAMAGES, COSTS, INJURIES, ATTORNEY'S FEES AND THE LIKE WHICH RESULT FROM SAME.
- 18. PROPOSED TOP OF CURB ELEVATIONS ARE GENERALLY 6" ABOVE EXISTING LOCAL ASPHALT GRADE UNLESS OTHERWISE NOTED. FIELD ADJUST TO CREATE A MINIMUM OF .075% GUTTER GRADE ALONG CURB FACE. IT SHALL BE THE CONTRACTOR'S OBLIGATION TO ENSURE THAT DESIGN ENGINEER APPROVES FINAL CURBING CUT SHEETS PRIOR TO INSTALLATION OF SAME.
- 19. IN THE EVENT OF DISCREPANCIES AND/OR CONFLICTS BETWEEN PLANS OR RELATIVE TO OTHER PLANS, THE SITE PLAN SHALL TAKE PRECEDENCE AND CONTROL. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DESIGN ENGINEER, IN WRITING, OF ANY DISCREPANCIES
- 20. CONTRACTOR SHALL BE REQUIRED TO SECURE ALL NECESSARY AND/OR REQUIRED PERMITS AND APPROVALS FOR ALL OFF SITE
- 22. STORM DRAINAGE PIPE: UNLESS INDICATED OTHERWISE, ALL STORM SEWER PIPE SHALL BE REINFORCED CONCRETE PIPE (RCP) CLASS III WITH SILT TIGHT JOINTS. WHEN HIGH-DENSITY POLYETHYLENE PIPE (HDPE) IS CALLED FOR ON THE PLANS, IT SHALL CONFORM TO AASHTO M294 AND TYPE S (SMOOTH INTERIOR WITH ANGULAR CORRUGATIONS) WITH GASKET FOR SILT TIGHT JOINT. PVC PIPE FOR ROOF DRAIN CONNECTION SHALL BE SDR 26 OR SCHEDULE 40 UNLESS INDICATED OTHERWISE.
- 23. ALL PIPING MATERIAL SHALL BE AS INDICATED ON THE SEPTIC SYSTEM PLAN AND DETAIL SHEET.
- 24. STORM AND SANITARY SEWER PIPE LENGTHS INDICATED ARE NOMINAL AND MEASURED CENTER OF INLET AND/OR MANHOLES STRUCTURE TO CENTER OF STRUCTURE.
- 25. STORMWATER ROOF DRAIN LOCATIONS ARE BASED ON PRELIMINARY ARCHITECTURAL PLANS. CONTRACTOR SHALL BE RESPONSIBLE TO AND FOR VERIFYING LOCATIONS OF SAME BASED ON FINAL ARCHITECTURAL PLANS.
- INDICATE, SHALL BE CONSTRUCTED OF STEEL, REINFORCED CONCRETE, DUCTILE IRON OR OTHER SUITABLE MATERIAL. SEWERS CONVEYING SANITARY FLOW COMBINED SANITARY AND STORMWATER FLOW OR INDUSTRIAL FLOW SHALL BE SEPARATED FROM WATER MAINS BY A DISTANCE OF AT LEAST 10 FEET HORIZONTALLY. IF SUCH LATERAL SEPARATION IS NOT POSSIBLE THE PIPES SHALL BE IN SEPARATE TRENCHES WITH THE SEWER AT LEAST 18 INCHES BELOW THE BOTTOM OF THE WATER MAIN OR SUCH OTHER SEPARATION AS APPROVED BY THE GOVERNMENT AGENCY WITH JURISDICTION OVER SAME WHERE APPROPRIATE SEPARATION FROM A WATER MAIN IS NOT POSSIBLE, THE SEWER SHALL BE ENCASED IN CONCRETE, OR CONSTRUCTED OF DUCTILE IRON PIPE USING MECHANICAL OR SLIP-ON JOINTS FOR A DISTANCE OF AT LEAST 10 FEET ON EITHER SIDE OF THE CROSSING. IN ADDITION, ONE FULL LENGTH OF SEWER PIPE SHALL BE LOCATED SO BOTH JOINTS WILL BE AS FAR FROM THE WATER LINE AS POSSIBLE. WHERE A WATER MAIN CROSSES UNDER A SEWER, ADEQUATE STRUCTURAL SUPPORT FOR THE SEWER SHALL BE PROVIDED.
- 27. WATER MAIN PIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS AND SPECIFICATIONS OF THE LOCAL WATER COMPANY. IN THE ABSENCE OF SUCH REQUIREMENTS, WATER MAIN PIPING SHALL BE CEMENT-LINED DUCTILE IRON (DIP) MINIMUM CLASS 52 THICKNESS. ALL PIPE AND APPURTENANCES SHALL COMPLY WITH THE APPLICABLE AWWA STANDARDS IN EFFECT AT THE TIME OF APPLICATION.
- JURISDICTION OVER SAME
- 29. CONSULTANT IS NEITHER LIABLE NOR RESPONSIBLE FOR ANY SUBSURFACE CONDITIONS AND FURTHER, SHALL HAVE NO LIABILITY FOR

- LOCATIONS OF ALL EXISTING AND PROPOSED SERVICES ARE APPROXIMATE AND SHALL BE INDEPENDENTLY CONFIRMED WITH LOCAL UTILITY COMPANIES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION OR EXCAVATION. SANITARY SEWER AND ALL OTHER UTILITY SERVICE CONNECTION POINTS SHALL BE INDEPENDENTLY CONFIRMED BY THE CONTRACTOR IN THE FIELD PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, ALL DISCREPANCIES SHALL IMMEDIATELY BE REPORTED. IN WRITING, TO THE ENGINEER. CONSTRUCTION SHALL COMMENCE BEGINNING AT THE LOWEST INVERT (POINT OF CONNECTION) AND PROGRESS UP GRADIENT. PROPOSED INTERFACE POINTS (CROSSINGS) WITH EXISTING UNDERGROUND UTILITIES SHALL BE FIELD VERIFIED BY TEST PIT PRIOR TO COMMENCEMENT OF
- CONTRACTOR SHALL BEAR ALL COSTS ASSOCIATED WITH DAMAGE TO ANY EXISTING UTILITIES DURING CONSTRUCTION.
- 3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL CONSTRUCTION CONTRACT DOCUMENTS INCLUDING, BUT NOT LIMITED TO, ALL OF THE DRAWINGS AND SPECIFICATIONS ASSOCIATED WITH THE PROJECT WORK SCOPE PRIOR TO THE INITIATION AND COMMENCEMEN OF CONSTRUCTION. SHOULD THE CONTRACTOR FIND A CONFLICT AND/OR DISCREPANCY BETWEEN THE DOCUMENTS RELATIVE TO THE SPECIFICATIONS OR THE RELATIVE OR APPLICABLE CODES, REGULATIONS, LAWS, RULES, STATUTES AND/OR ORDINANCES, IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO NOTIFY THE PROJECT ENGINEER OF RECORD, IN WRITING, OF SAID CONFLICT AND/OR DISCREPANCY PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR'S FAILURE TO NOTIFY THE PROJECT ENGINEER SHALL CONSTITUTE CONTRACTOR'S FULL AND COMPLETE ACCEPTANCE OF ALL RESPONSIBILITY TO COMPLETE THE SCOPE OF WORK AS DEFINED BY THE DRAWINGS AND IN FULL COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS, LAWS, STATUTES, ORDINANCES AND
- THE CONTRACTOR SHALL LOCATE AND CLEARLY AND UNAMBIGUOUSLY DEFINE VERTICALLY AND HORIZONTALLY ALL ACTIVE AND INACTIVE UTILITY AND/OR SERVICE SYSTEMS THAT ARE TO BE REMOVED. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT AND MAINTAIN
- CONTRACTOR SHALL PROVIDE THE OWNER WITH WRITTEN NOTIFICATION THAT THE EXISTING UTILITIES AND SERVICES HAVE BEEN

- WATER METER AND VAULT, PRIOR TO COMMENCING CONSTRUCTION
- 9. ALL NEW UTILITIES/SERVICES, INCLUDING ELECTRIC, TELEPHONE, CABLE TV, ETC. ARE TO BE INSTALLED UNDERGROUND. ALL NEW UTILITIES/SERVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE UTILITY/SERVICE PROVIDER INSTALLATION SPECIFICATIONS AND

- 14. THE TOPS OF EXISTING MANHOLES, INLET STRUCTURES, AND SANITARY CLEANOUT TOPS SHALL BE ADJUSTED, AS NECESSARY, TO MATCH PROPOSED GRADES IN ACCORDANCE WITH ALL APPLICABLE STANDARDS, REQUIREMENTS, RULES, STATUTES, LAWS, ORDINANCES AND
- CONSTRUCTION TO IDENTIFY THE AS-INSTALLED LOCATIONS OF ALL UNDERGROUND INFRASTRUCTURE. THE CONTRACTOR SHALL CAREFULLY NOTE ANY INSTALLATIONS THAT DEVIATE FROM THE INFORMATION CONTAINED IN THE UTILITY PLAN. THIS RECORD SHALL BE KEPT ON A CLEAN COPY OF THE DRAINAGE OR UTILITY PLAN. WHICH CONTRACTOR SHALL PROMPTLY PROVIDE TO THE OWNER AT THE
- DRAINAGE OR UTILITY PLAN, WHICH CONTRACTOR SHALL PROMPTLY PROVIDE TO THE OWNER UPON COMPLETION OF THE WORK.
- 17. THE CONTRACTOR SHALL FULLY RESPONSIBLE FOR VERIFICATION OF EXISTING TOPOGRAPHIC INFORMATION AND UTILITY INVERT ELEVATIONS PRIOR TO COMMENCING ANY CONSTRUCTION. CONTRACTOR SHALL CONFIRM AND ENSURE 0.75% MINIMUM SLOPE AGAINST ALL ISLANDS, GUTTERS, AND CURBS: 1.0% ON ALL CONCRETE SURFACES; AND 1.5% MINIMUM ON ASPHALT (EXCEPT WHERE ADA REQUIREMENTS OR EXISTING TOPOGRAPHY LIMIT GRADES), TO PREVENT PONDING. CONTRACTOR SHALL IMMEDIATELY IDENTIFY IN WRITING TO THE ENGINEER, ANY DISCREPANCIES THAT MAY OR COULD AFFECT THE PUBLIC SAFETY, HEALTH OR GENERAL WELFARE, OR PROJECT COST. JE CONTRACTOR PROCEEDS WITH CONSTRUCTION WITHOUT PROVIDING PROPER NOTIFICATION SHALL BE AT. THE CONTRACTOR'S OWN RISK AND, FURTHER, CONTRACTOR SHALL INDEMNIFY, DEFEND AND HOLD HARMLESS THE DESIGN ENGINEER FOR
- MATERIAL SOURCES AND DISPOSAL FACILITIES. CONTRACTOR SHALL SUPPLY A COPY OF APPROVALS TO ENGINEER AND OWNER PRIOR
- 21. WHERE RETAINING WALLS (WHETHER OR NOT THEY MEET THE JURISDICTIONAL DEFINITION) ARE IDENTIFIED ON PLANS, ELEVATIONS IDENTIFIED ARE FOR THE EXPOSED PORTION OF THE WALL. WALL FOOTINGS/FOUNDATION ELEVATIONS ARE NOT IDENTIFIED HEREIN AND ARE TO BE SET/DETERMINED BY THE CONTRACTOR BASED ON FINAL STRUCTURAL DESIGN SHOP DRAWINGS PREPARED BY THE APPROPRIATE PROFESSIONAL LICENSED IN THE STATE WHERE THE CONSTRUCTION OCCURS

- 26. SEWERS CROSSING STREAMS AND/OR LOCATION WITHIN 10 FEET OF THE STREAM EMBANKMENT, OR WHERE SITE CONDITIONS SO
- 28. CONTRACTOR SHALL ENSURE THAT ALL UTILITY TRENCHES LOCATED IN EXISTING PAVED ROADWAYS AND PARKING LOTS INCLUDING WATER AND ELECTRICAL CONDUITS, SHALL BE REPAIRED IN ACCORDANCE WITH REFERENCED MUNICIPAL, COUNTY AND/OR DOT DETAILS AS APPLICABLE. CONTRACTOR SHALL COORDINATE INSPECTION AND APPROVAL OF COMPLETED WORK WITH THE AGENCY WITH
- ANY HAZARDOUS MATERIALS, HAZARDOUS SUBSTANCES, OR POLLUTANTS ON, ABOUT OR UNDER THE PROPERTY.

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ADA INSTRUCTIONS TO CONTRACTOR:

CONTRACTORS SHALL EXERCISE APPROPRIATE CARE AND PRECISION IN CONSTRUCTION OF ADA (ACCESSIBLE) ACCESSIBLE COMPONENTS AND ACCESS ROUTES FOR THE SITE. THESE COMPONENTS, AS CONSTRUCTED, SHALL COMPLY WITH ALL APPLICABLE STATE AND LOCAL ACCESSIBILITY LAWS AND REGULATIONS AND THE CURRENT ADA AND/OR STATE ARCHITECTURAL ACCESS BOARD STANDARDS AND REGULATIONS' BARRIER FREE ACCESS AND ANY MODIFICATIONS. REVISIONS OR UPDATES TO SAME. FINISHED SURFACES ALONG THE ACCESSIBLE ROLITE OF TRAVELEROM PARKING SPACE PUBLIC TRANSPORTATION PEDESTRIAN ACCESS INTER-BUILDING ACCESS TO POINTS OF ACCESSIBLE BUILDING ENTRANCE/EXIT, SHALL COMPLY WITH THESE ADA AND/OR ARCHITECTURAL ACCESS BOARD CODE REQUIREMENTS. THESE INCLUDE, BUT ARE <u>NOT</u> LIMITED TO THE FOLLOWING:

- PARKING SPACES AND PARKING AISLES SLOPE SHALL NOT EXCEED 1:50 (1/4" PER FOOT OR NOMINALLY 2.0%) IN ANY DIRECTION.
- CURB RAMPS SLOPE SHALL NOT EXCEED 1:12 (8.3%) FOR A MAXIMUM OF SIX (6) FEET.

A117.1-2003 AND OTHER REFERENCED INCORPORATED BY CODE.)

 LANDINGS - SHALL BE PROVIDED AT EACH END OF RAMPS, SHALL PROVIDE POSITIVE DRAINAGE, AND SHALL NOT EXCEED 1:50 (1/4" PER FOOT OR NOMINALLY 2.0%) IN ANY DIRECTION. • PATH OF TRAVEL ALONG ACCESSIBLE ROUTE - SHALL PROVIDE A 36-INCH OR GREATER UNOBSTRUCTED WIDTH OF TRAVEL (CAR OVERHANGS AND/OR HANDRAILS CANNOT REDUCE THIS MINIMUM WIDTH). THE SLOPE SHALL BE NO GREATER THAN 1:20 (5.0%) IN THE DIRECTION OF

TRAVEL. AND SHALL NOT EXCEED 1:50 (1/4" PER FOOT OR NOMINALLY 2.0%) IN CROSS SLOPE. WHERE PATH OF TRAVEL WILL BE GREATER

THAN 1:20 (5.0%), ADA RAMP SHALL BE ADHERED TO. A MAXIMUM SLOPE OF 1:12 (8.3%), FOR A MAXIMUM RISE OF 2.5 FEET, SHALL BE

PROVIDED. THE RAMP SHALL HAVE ADA HAND RAILS AND "LEVEL" LANDINGS ON EACH END THAT ARE CROSS SLOPED NO MORE THAN 1:50 IN

- ANY DIRECTION (1/4" PER FOOT OR NOMINALLY 2.0%) FOR POSITIVE DRAINAGE. . DOORWAYS - SHALL HAVE A "LEVEL" LANDING AREA ON THE EXTERIOR SIDE OF THE DOOR THAT IS SLOPED AWAY FROM THE DOOR NO MORE THAN 1:50 (1/4" PER FOOT OR NOMINALLY 2.0%) FOR POSITIVE DRAINAGE. THIS LANDING AREA SHALL BE NO LESS THAN 60 INCHES (5 FEET) LONG, EXCEPT WHERE OTHERWISE PERMITTED BY ADA STANDARDS FOR ALTERNATIVE DOORWAY OPENING CONDITIONS. (SEE ICC/ANSI
- WHEN THE PROPOSED CONSTRUCTION INVOLVES RECONSTRUCTION, MODIFICATION, REVISION OR EXTENSION OF OR TO ADA COMPONENTS FROM EXISTING DOORWAYS OR SURFACES, CONTRACTOR SHALL VERIFY EXISTING ELEVATIONS SHOWN ON THE PLAN. NOTE THAT TABLE 405.2 OF THE DEPARTMENT OF JUSTICE'S ADA STANDARDS FOR ACCESSIBLE DESIGN ALLOWS FOR STEEPER RAMP SLOPES, IN RARE CIRCUMSTANCES. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DESIGN ENGINEER OF ANY DISCREPANCIES AND/OR FIELD CONDITIONS THAT DIFFER IN ANY WAY OR ANY RESPECT FROM WHAT IS SHOWN ON THE PLANS. IN WRITING, BEFORE COMMENCEMENT OF WORK. CONSTRUCTED IMPROVEMENTS SHALL FALL WITHIN THE MAXIMUM AND MINIMUM LIMITATIONS IMPOSED BY THE BARRIER FREE REGULATIONS AND THE ADA REQUIREMENTS.
- THE CONTRACTOR SHALL VERIFY THE SLOPES OF CONTRACTOR'S FORMS PRIOR TO POURING CONCRETE. IF ANY NON-CONFORMANCE IS OBSERVED OR EXISTS CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER PRIOR TO POURING CONCRETE, CONTRACTOR IS RESPONSIBLE FOR ALL COSTS TO REMOVE. REPAIR AND REPLACE NON-CONFORMING CONCRETE

IT IS STRONGLY RECOMMENDED THAT THE CONTRACTOR REVIEW THE INTENDED CONSTRUCTION WITH THE LOCAL BUILDING CODE PRIOR TO COMMENCEMENT OF CONSTRUCTION.

REFER TO ABBREVIATIONS & LEGEND

SHEET FOR ABBREVIATIONS & LEGEND

REFER TO SITE PLAN FOR ZONING

ANALYSIS TABLE

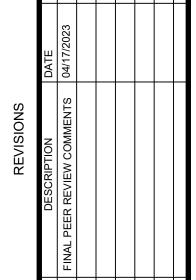
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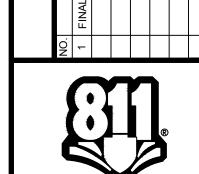
DETAILS SHEET FOR TYPICAL

EROSION NOTES AND DETAILS



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Know what's **below.**

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HEET NO.

ABBREVIATIONS

ВС	BOTTOM CURB	PROP.	PROPOSED
TC	TOP CURB	TBR/R	TO BE REMOVED AND REPLACED
вос	BACK OF CURB	TBR	TO BE REMOVED
BW	BOTTOM OF WALL GRADE	TPF	TREE PROTECTION FENCE
TW	TOP OF WALL	BLDG.	BUILDING
EXIST.	EXISTING	SF	SQUARE FEET
BM.	BENCHMARK	SMH	SEWER MANHOLE
EOP	EDGE OF PAVEMENT	DMH	DRAIN MANHOLE
φ	CENTERLINE	STM.	STORM
FF	FINISHED FLOOR	SAN.	SANITARY
V.I.F.	VERIFY IN FIELD	CONC.	CONCRETE
GC	GENERAL CONTRACTOR	ARCH.	ARCHITECTURAL
HP	HIGH POINT	DEP.	DEPRESSED
LP	LOW POINT	R	RADIUS
TYP.	TYPICAL	MIN.	MINIMUM
INT.	INTERSECTION	MAX.	MAXIMUM
PC.	POINT OF CURVATURE	No. / #	NUMBER
PT.	POINT OF TANGENCY	W.	WIDE
PI.	POINT OF INTERSECTION	DEC.	DECORATIVE
PVI.	POINT OF VERTICAL INTERSECTION	ELEV.	ELEVATION
STA.	STATION	UNG.	UNDERGROUND
GRT	GRATE	R.O.W.	RIGHT OF WAY
INV.	INVERT	LF	LINEAR FOOT
DIP	DUCTILE IRON PIPE	LOD	LIMIT OF DISTURBANCE
PVC	POLYVINYL CHLORIDE PIPE	LOW	LIMIT OF WORK
HDPE	HIGH DENSITY POLYETHYLENE PIPE	L.S.A.	LANDSCAPED AREA
RCP	REINFORCED CONCRETE PIPE	±	PLUS OR MINUS
S	SLOPE	0	DEGREE
ME	MEET EXISTING	Ø / DIA.	DIAMETER
M&P	MAINTAIN & PROTECT		
	1	_1	1

LEGEND

OFNEDAL	
GENERAL	PROPERTY LINE
	EASEMENT
	— INTERNAL LOT LINE
11	- WETLAND LINE
BLSF	BORDERING LAND SUBJECT TO FLOODING
200' RA	200' RIVERFRONT AREA
100' RA	— 100' RIVERFRONT AREA
	100' WETLAND BUFFER ZONE
4	BORING LOCATION
#1	
TP	MONITORING WELL
=	TEST PIT LOCATION
<i>₩F#5</i>	WETLAND FLAG
,, c	
SITE	BUILDING SETBACK
	BUILDING SETBACK SAWCUT LINE
CC/AC	CONC. CURB/ASPHALT CURB
MCC	MONOLITHIC CONC. CURB
SGC	■ SLOPED GRANITE CURB
VGC	
TC	
ССВ	TRANSITION CURB
EOP	CAPE COD BERM
	EDGE OF PAVEMENT BUILDING ENTRANCE
ENT/EXT (4)	STANDARD STALL COUNT
50	TOTAL PARKING COUNT
Ġ,	ACCESSIBLE PARKING
&.	VAN ACCESSIBLE PARKING
VAN	STOP BAR
stop A	PAVEMENT MARKING ARROW
U	
-	TRAFFIC SIGN
•	BOLLARD PEDESTRIAN LIGHT POLE
© □	PARKING LOT LIGHT POLE
ø	UTILITY POLE
OH	— OVERHEAD WIRE
EROSION CO	NITROI
<u>LINOSION CC</u>	DIVITOL
→SF	EROSION CONTROL BARRIER
	STABILIZED CONSTRUCTION EXIT
	INLET PROTECTION
RADING	
	SPOT SHOT
53.52	
BC=53.82	TOP OF CURB/ BOTTOM OF CURB
50	PROP. CONTOUR
5%	SLOPE
RIDGE	RIDGE LINE
<u> </u>	
GGGG	GAS LINE
	TELEPHONE CONDUIT ELEC. CONDUIT
	WATER LINE
	DRAINAGE LINE
S S S	SEWER LINE
스	TAPPING TEE
4	BEND W/ THRUSTBLOCK
	GATE VALVE HYDRANT
**************************************	· · · <u>- · · · · · · · · · · · · · · · ·</u>

SQUARE CATCH BASIN

ROUND CATCH BASIN

CURB INLET

DRAIN MANHOLE

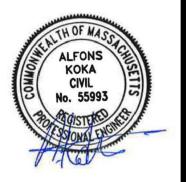
SEWER MANHOLE

TRENCH DRAIN

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REVISIONS	DESCRIPTION	FINAL PEER REVIEW COMMENTS				
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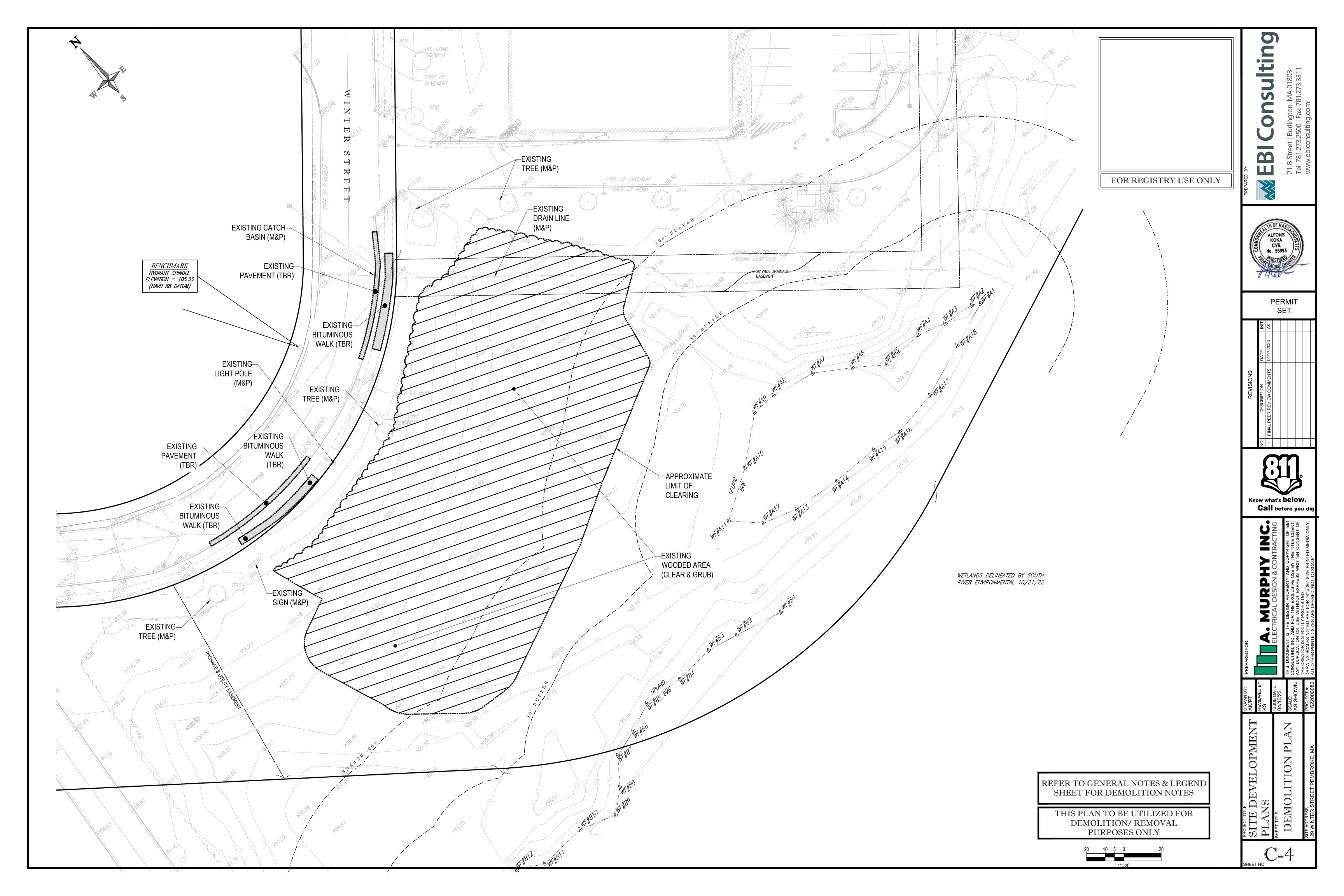
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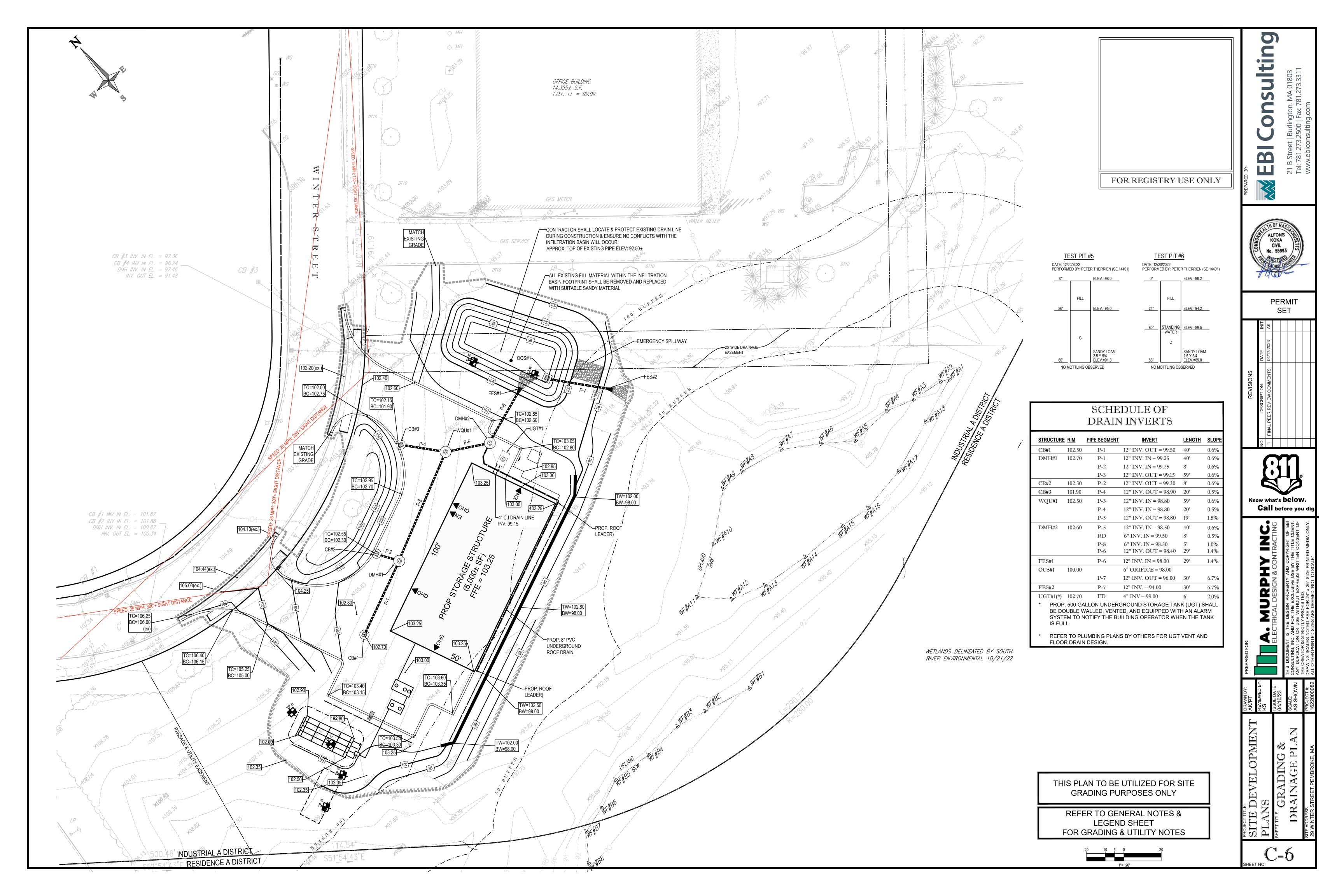
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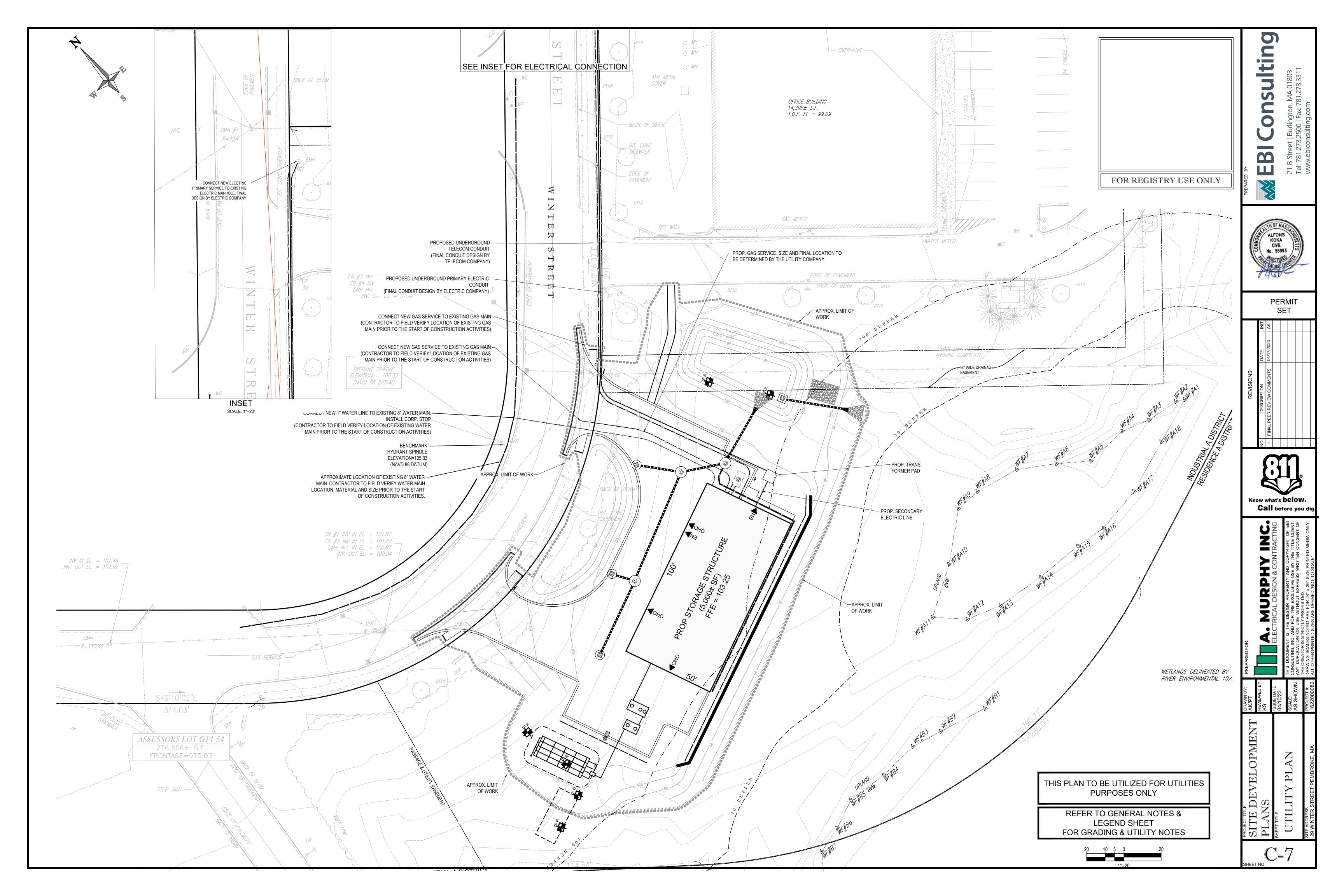
REFER TO SITE PLAN FOR ZONING ANALYSIS TABLE

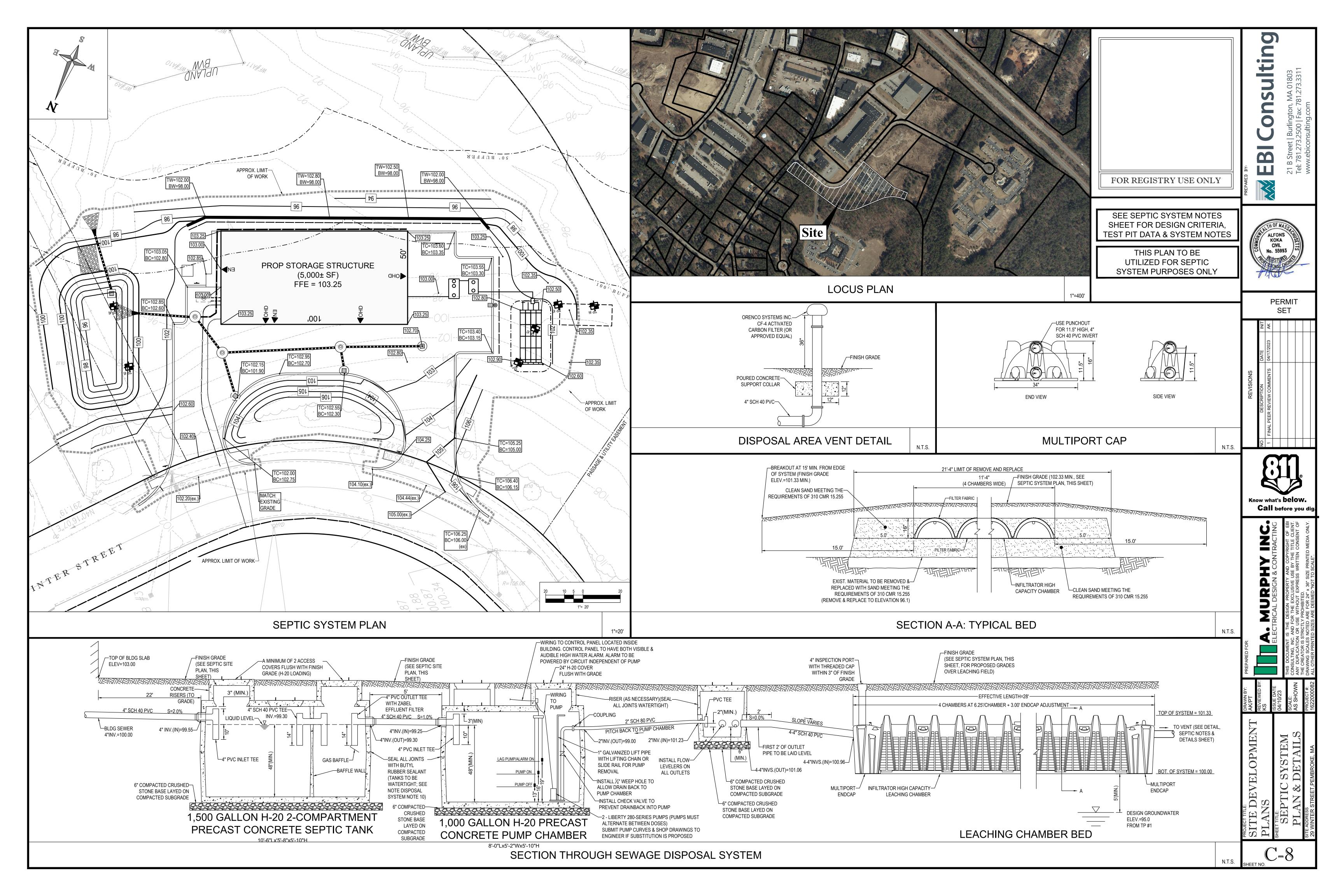
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ZONING ANALYSIS TABLE		S49'43'53"E 424.66' 0710 0710 0710 0710 0710 0710	FOR REGISTRY USE ONLY	PREPARED BY: EBICONSULTING 21 B Street Burlington, MA 01803 Tel: 781.273.2500 Fax: 781.273.3311 www.ebiconsulting.com
N/A - NOT APPLICABLE (1) - EXISTING OFFICE BUILDING IS ALLOWED BY RIGHT UNDER THE INDUSTRIAL A ZONING DISTRICT. PROPOSED STORAGE STRUCTURE WILL PROVIDE AN ANCILLARY SERVICE TO THE EXISTING OFFICE USE (2) - PARKING CRITERIA CALCULATION PROVIDED FOR THE PROPOSED STORAGE STRUCTURE ONLY. NO CHANGES ARE BEING PROPOSED FOR THE EXISTING BUILDING AND THE EXISTING PARKING AREA.	WINTE	OFFICE BUILDING 14,395± S.F. T.O.F. EL = 99.09	ASSESSORS PARCEL G13 #189 OAK STREET N/F UHS OF WESTWOOD PEMBI DEED BOOK 19824 PAGE	PERMIT SET
	PROP. ADA RAMP PROP. 'STOP" SIGN PROP. 'STOP" BAR APPROXIMATE— SAWCUT LINE PROP. ADA RAMP	APPROXIMATE SAWCUT LINE PROP. 4' WIDE BIT. CONC. WALK APPROX. LIMIT OF WORK WORK APPROX. LOCATION OF PROP. TREE LINE PROP. SYSTEM SYSTEM SYSTEM SYSTEM APPROX. LOCATION OF PROP. TREE LINE		REVISIONS NO. DESCRIPTION DA 1 FINAL PEER REVIEW COMMENTS 04/
APPROXIMATE SAW	PROP. ADA RAMP R=40' R=40' R=35	PROP. ACCESSIBLE PARKING SIGN PROP. PAINTED ADA ACCESSIBLE AISLE PROPOSED 5' WIDE BIT. CONC. WALK APPROX. LIMIT OF WORK PROPOSED 4' HIGH FALL PROTECTION FENCE RIVE WE RIVE WE RIVE WE RIVE WE RIVE RIVE WE RIVE R	TLANDS DELINEATED BY SOUTH VER ENVIRONMENTAL 10/21/22	PARED FOR: A. MURRPHY INC. ELECTRICAL DESIGN & CONTRACTING S DOCUMENT IS THE DESIGN PROPERTY AND COPYRIGHT OF EBI ISULTING, INC. AND FOR THE EXCLUSIVE USE BY THE TITLE CLIENT. **DUPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT OF CREATOR IS STRICTLY PROHIBITED. WING SCALES NOTED ARE FOR 24" × 36" SIZE PRINTED MEDIA ONLY. **GENTAL OF THE DESIGN PROPERTY AND COPYRIGHT OF EBI **ANOTHER PRINTED SIZES ARE DEEMED "NOT TO SCALE". **EXAMINED SIZES ARE DEEMED "NOT TO SCALE".
ASSESSORS LOT G14-54 276,606± S.F. FRONTAGE=975.03	PROP.D LIGHT POLE— PROP.D LIGHT POLE— PROP. WOOL GUARDE WORK 20' REAR YARD	PROPOSED RETAINING WALL	THIS PLAN TO BE UTILIZED FOR SITE LAYOUT PURPOSES ONLY	PROJECT TITLE: SITE DEVELOPMENT AK/PT AK/PT AK/PT SITE ADDRESS SHEET TITLE: SITE ADDRESS STEET, PEMBROKE, MA 1622000082 ALI 103 104 105 104 105 105 105 105 105 105 105 105 105 105







WITNESSE					 R THERRIEN ULLITY
0"		ELEV.=103.2			ELEV.=100.3
	FILL			FILL	
64"		ELEV.=97.9	50"		ELEV.=96.1
65"	PERC SHELF	ELEV.=97.8			
98"	STANDING WATER	ELEV.=95.0	72"	STANDING WATER	ELEV.=94.3
	С			С	
124"		LOAMY FINE SAND 2.5 Y 6/3 ELEV.=92.9	126"		LOAMY FINE SAND 2.5 Y 6/3 ELEV.=89.8
	ST PIT #	<u>3</u>		ST PIT #	<u>4</u>
WITNESSE					R THERRIEN ULLITY
		ELEV.=99.0	0"		ELEV.=99.0
3"	A	SANDY LOAM 10 YR 3/3 ELEV.=98.8	4"	A	SANDY LOAM 10 YR 3/3 ELEV.=98.7
28"	PERC SHELF	ELEV.=96.7			
72"	STANDING	ELEV.=93.0	70"	STANDING	ELEV.=93.2

OAMY MEDIUM SAND

TEST PIT #2

LOAMY MEDIUM SAND

TEST PIT #1

DESIGN CALCULATIONS

DESIGN DATA:

TYPE OF ESTABLISHMENT: WAREHOUSE

- DESIGN FLOW REQUIREMENTS: 15 GPD/PERSON
- DESIGN FLOW: 15 GPD/PERSON x 5 EMPLOYEES = 75 GPD -->200 GPD
- SOIL TYPE; CLASS; DESIGN PERCOLATION RATE: SANDY LOAM; CLASS II; 20 MPI LONG TERM ACCEPTANCE RATE: 0.53 GPD/SF
- EFFECTIVE LEACHING AREA*: 4.73 SF/LF *EFFECTIVE LEACHING AREA PER MASS DEP APPROVAL LETTER FOR INFILTRATOR HIGH CAPACITY LEACHING CHAMBERS

SEPTIC TANK CAPACITY:

- REQUIRED FIRST COMPARTMENT VOLUME: 200 GPD x 2 DAYS = 400 GALLONS -->1,000 GAL. FIRST
- REQUIRED SECOND COMPARTMENT VOLUME: 200 GPD x 1 DAY = 200 GALLONS -->500 GAL.
- SECOND COMPARTMENT PROPOSED SEPTIC TANK: 2- COMPARTMENT, 1,500 GALLON PRECAST CONCRETE SEPTIC TANK (1,000 GALLON FIRST COMPARTMENT; 500 GALLON SECOND COMPARTMENT

LEACHING AREA SIZING REQUIREMENTS:

- REQUIRED LEACHING AREA = 200 GPD / 0.53 GPD/SF = 377.4 SF
- REQUIRED SYSTEM LENGTH = 377.4 SF / 4.73 SF/LF(EFF. LEACHING AREA) = 79.8 LF NUMBER OF CHAMBERS: 79.8 LF / 6.25 LF/CHAMBER = 12.8 CHAMBERS --> 16 INFILTRATOR HIGH

CAPACITY LEACHING CHAMBERS (4x4)

- PUMP SIZING REQUIREMENTS:
- DESIRED DOSE RATE: 220 GPD / 4 DOSES/DAY = 55 GAL/DOSE PUMP CHAMBER INCREMENTAL VOLUME: 1,000 GAL / 48"(BELOW INVERT) = 20.83 GAL/IN.
- DRAIN BACK VOLUME: 24' OF 2" SCH 80 PIPE = 4± GAL.
- RESIDUAL VOLUME: 13"(PUMP OFF) x 20.83 GAL/IN = 271 GAL.
- PUMP CYCLE: [55 GAL(DOSE) + 4 GAL (DRAINBACK)] / 20.83 GAL/IN = 2.8" --> 3"PER CYCLE (62 GAL.) PUMP ON VOLUME: (16")20.83 GAL./IN = 333 GAL.
- ALARM VOLUME: 19" x 20.83 GAL/IN = 396 GAL
- RESERVE VOLUME: 1,000 GAL(FULL) 396 GAL(ALARM) = 604 GAL > 200 GAL.
- VERTICAL HEAD: 101.23(DBOX INVERT) 96.33(SHUTOFF ELEV) = 4.90'
- FRICTION HEAD @ 60 GPM: [20' + 40'/EQUIVALENT LENGTH OF FITTINGS)] x 0.0594 = 3.34' TOTAL HEAD: 4.90 + 4.17 = 9.07'
- PUMP MODEL: 2 LIBERTY 280-SERIES PUMPS (PUMPS MUST ALTERNATE BETWEEN DOSES) (CONTRACTOR TO SUBMIT PUMP CURVES TO ENGINEER IF ALTERNATIVE IS PROPOSED)

BUOYANCY CALCULATIONS:

- SEPTIC TANK BUOYANCY (ASSUME TANK IS EMPTY AND FULLY INUNDATED):
- DISPLACEMENT VOLUME: 10.50'x5.67'x5.83' = 347.1 CF DISPLACEMENT WEIGHT: 347.1 CF x 62.4 LB/CF = 21,659 LBS

DOSE TIME: 62 GAL/DOSE / 58 GAL/MIN = 1.1± MIN. PER DOSE

- WEIGHT OF 1,500 GAL H-20 2C SEPTIC TANK FROM SHEA CONCRETE: 14,395 LBS
- WEIGHT OF SOIL OVER TANK: [10.50x5.67x1.7'(SOIL DEPTH)] x [100 LB/CF) = 10,121 LBS BALLAST WEIGHT REQUIRED: 21,659 LBS - 14,395 LBS - 10,121 LBS = -2,857 LBS --> NO BALLAST REQUIRED

PUMP CHAMBER BUOYANCY(ASSUME TANK IS EMPTY AND FULLY INUNDATED):

- DISPLACEMENT VOLUME: 8.00'x5.17'x5.83'= 241.1 CF
- DISPLACEMENT WEIGHT: 241.1 CF x 62.4 LB/CF = 15,045 LBS WEIGHT OF 1,000 GAL H-20 PUMP CHAMBER FROM SHEA CONCRETE: 9,785 LBS
- WEIGHT OF SOIL OVER TANK: [8.00'x5.17'x2.00'(SOIL DEPTH)] x [100 LB/CF) = 8,272 LBS BALLAST WEIGHT REQUIRED: 15,045 LBS - 9,785 LBS - 8,272 LBS = -3,012 LBS --> NO BALLAST

DISTRIBUTION BOX BUOYANCY (ASSUME TANK IS EMPTY AND FULLY INUNDATED):

- DISPLACEMENT VOLUME: 2.75'x1.92'x1.71'= 9.0 CF DISPLACEMENT WEIGHT: 9.0 CF x 62.4 LB/CF = 562 LBS
- WEIGHT OF 6 OUTLET DISTRIBUTION BAFFLE BOX FROM SHEA CONCRETE: 734 LBS
- WEIGHT OF SOIL OVER BOX: [2.75'x1.92'x1.3'(SOIL DEPTH)] x [100 LB/CF) = 686 LBS BALLAST WEIGHT REQUIRED: 734 LBS - 562 LBS - 686 LBS = -514 LBS --> NO BALLAST
 - REQUIRED

DISPOSAL SYSTEM NOTES

NOTE: CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH THE NOTES AND SPECIFICATIONS CONTAINED HEREIN. CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL SUBCONTRACTORS FULLY AND COMPLETELY CONFORM TO AND COMPLY WITH THESE

- 1. ALL ELEVATIONS ARE REFERENCED TO THE BENCHMARKS AND DATUM NOTED ON SHEET C-7.
- 2. ALL CONSTRUCTION METHODS, MATERIALS AND DISPOSAL SYSTEM COMPONONENTS MUST BE IN CONFORMANCE WITH TITLE 5 OF THE MASSACHUSETTS STATE SANITARY CODE AND ANY REGULATIONS ESTABLISHED BY THE LOCAL BOARD OF HEALTH.
- 3. PERCOLATION TESTS AND TEST PIT LOGS ARE ONLY INDICATIVE OF THE CONDITIONS OBSERVED AT THEIR LOCATION. THE CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER AND LOCAL BOARD OF HEALTH IF SOIL CONDITIONS WITHIN THE LEACHING AREA VARY FROM THOSE NOTED ON THIS PLAN.
- 4. PRIOR TO PACEMENT OF ANY FILL, SAND, OR LEACHING COMPONENTS, THE BASE OF THE EXCAVATION MUST BE INSPECTED AND APPROVED BY THE LOCAL BOARD OF HEALTH AND THE DESIGN ENGINEER.
- 5. EXCAVATE ANY UNSUITABLE MATERIAL BELOW THE BASE OF, AND FIVE FEET AROUND THE LEACHING AREA TO THE TOP OF THE MOST RESTRICTIVE LAYER (APPROXIMATELY ELEVATION 96.1) OR AS DIRECTED BY THE LOCAL BOARD OF HEALTH AND/OR THE DESIGN ENGINEER.
- 6. ALL FILL MATERIAL SHALL BE CLEAN GRANULAR MATERIAL AND SHALL BE FREE FROM IRONS, CLAY, AND FINES. FILL MATERIAL SHALL COMPLY WITH THE REQUIREMENTS OF TITLE 5 AND BE APPROVED BY THE LOCAL BOARD OF HEALTH AND DESIGN ENGINEER.
- 7. ALL FINISH GRADES SHALL COMPLY WITH THOSE SHOWN ON THE PLAN, AND IN NO CASE MAY BE LESS THAN 12" ABOVE THE TOP OF THE LEACHING SYSTEM.
- 8. BACKFILL OF THE LEACHING FIELD AND ALL SYSTEM COMPONENTS SHALL NOT OCCUR UNTIL THE SYSTEM HAS BEEN INSPECTED BY A REPRESENTATIVE OF THE LOCAL BOARD OF HEALTH AND THE DESIGN ENGINEER.
- 9. ALL PIPING OUTSIDE OF THE DISPOSAL AREA SHALL BE WATER TIGHT.
- 10. PRIOR TO BACKFILL, ALL SYSTEM TANKS SHALL BE TESTED FOR LEAKAGE USING THE 24 HOUR STATIC WATER LEVEL TEST (FILLED TANKS MUST RETAIN AT LEAST 99% OF THE DESIGN TANK VOLUME OVER A 24 HOUR PERIOD).
- 11. NO GARBAGE GRINDERS/DISPOSALS SHALL BE ALLOWED TO DISCHARGE INTO THIS SYSTEM.
- 12. DESIGN ENGINEER ASSUMES NO LIABILITY FOR DAMAGES AS A RESULT OF FAULTY CONSTRUCTION OR ANY DEVIATION FROM ALIGNMENT AND GRADE AS SPECIFIED HEREIN WITHOUT PRIOR NOTIFICATION AND APPROVAL OF THE DESIGN ENGINEER.
- 13. SYSTEM INSTALLER TO FIELD VERIFY LOCATION AND ELEVATIONS OF ALL EXISTING PIPES AND CONNECTIONS PRIOR TO PLACEMENT OF NEW SYSTEM COMPONENTS. REPORT ANY DISCREPANCIES TO THE DESIGN ENGINEER.
- 14. THE CONTRACTOR SHALL CONTACT DIGSAFE AT 811 AND OBTAIN A TICKET AT LEAST 3 BUSINESS DAYS PRIOR TO EXCAVATION.
- 15. THE PROPOSED LEACHING SYSTEM CONSISTS OF A 11'-4"x28'-0" LEACHING BED UTILIZING INFILTRATOR HIGH CAPACITY LEACHING CHAMBERS WITH ENDCAPS. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ON ANY ALTERNATIVE PRIOR TO CONSTRUCTION.
- 16. CONSTRUCTION AND OPERATION OF TREATMENT SYSTEM SHALL MEET MASSACHUSETTS DEP GENERAL USE CERTIFICATION FOR: INFILTRATOR WATER TECHNOLOGIES, LLC (DEP TRANSMITTAL NUMBER X259183, DATED 02/19/2015 AND LAST MODIFIED 06/12/2015).
- 17. CONTRACTOR TO PLACE MAGNETIC TRACE TAPE OVER ALL SEPTIC SYSTEMS COMPONENTS INCLUDING BUILDING SEWER, SEPTIC TANK, PUMP CHAMBER, DISTRIBUTION BOX, LEACHING FIELD, AND ALL SYSTEM PIPING.
- 18. THERE ARE NO KNOWN SURFACE AND SUBSURFACE DRAINS OR CATCH BASINS THAT EXIST WITHIN 100 FEET OF THE SEPTIC SYSTEM COMPONENTS OR AS REQUIRED BY THE LOCAL
- 19. THE SITE DOES NOT FALL WITHIN A DEP APPROVED "ZONE II AQUIFER PROTECTION
- 20. NO PORTION OF THE SUBJECT PARCEL IS LOCATED WITHIN ANY SPECIAL FLOOD HAZARD AREAS AS SHOWN ON THE FEMA FLOOD MAP COMMUNITY PANEL NO. 25023C0207K DATED

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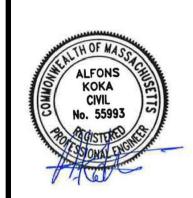
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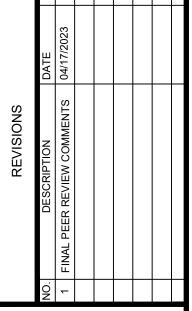
FOR REGISTRY USE ONLY

REFER TO SEPTIC SYSTEM PLAN & DETAILS FOR SEPTIC SYSTEM **COMPLEMENT LAYOUT & DETAILS**

THIS PLAN TO BE UTILIZED FOR SEPTIC SYSTEM DESIGN INFORMATION ONLY



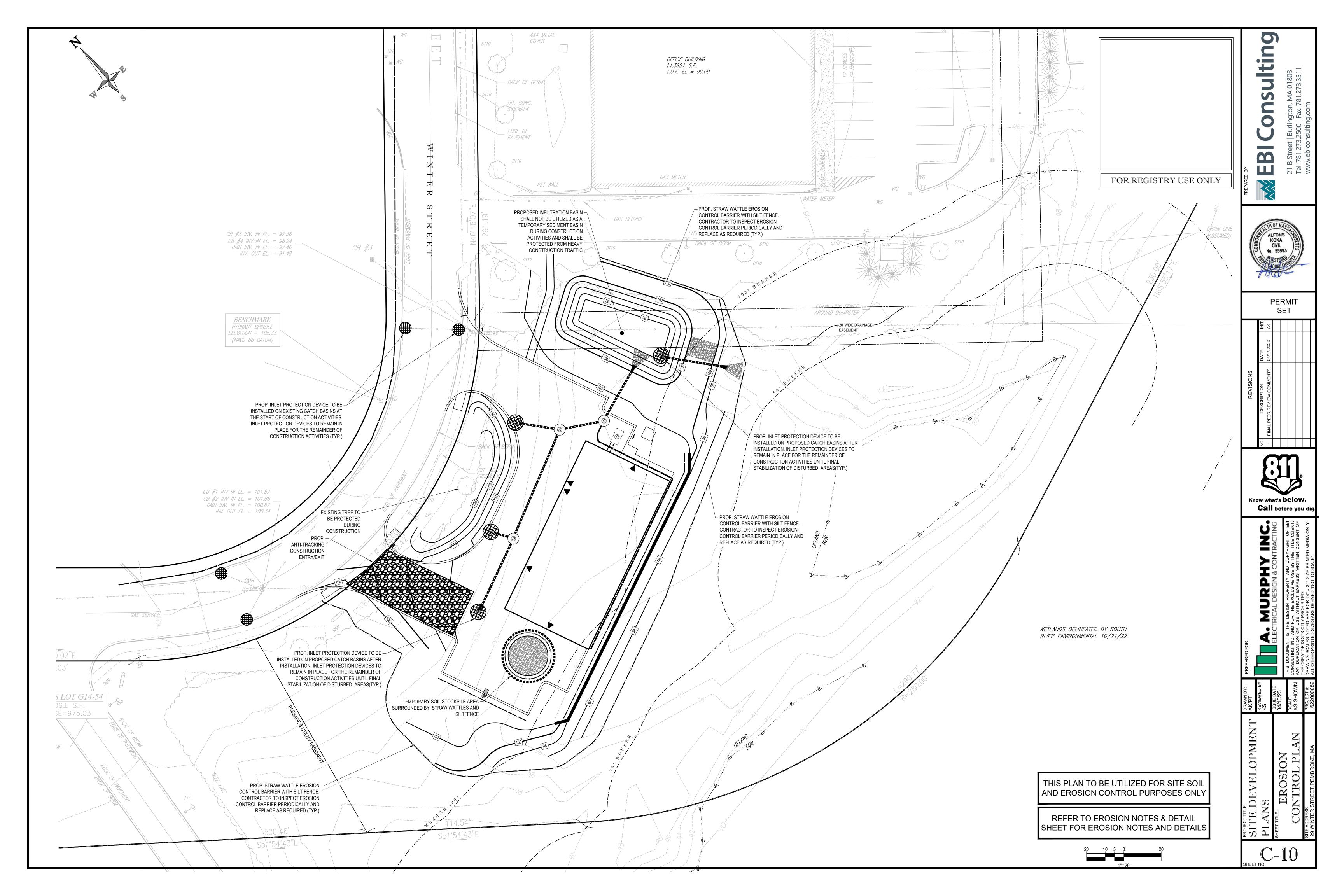
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DEVELOPMENT



EROSION & SEDIMENT CONTROL NOTES ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE DONE AS SET FORTH IN THE MOST CURRENT STATE SEDIMENT AND EROSION CONTROL MANUAL.

- THOSE AREAS UNDERGOING ACTUAL CONSTRUCTION WILL BE LEFT IN AN UNTREATED OR UNVEGETATED CONDITION FOR A MINIMUM TIME. AREAS SHALL BE PERMANENTLY STABILIZED WITHIN 15 DAYS OF FINAL GRADING AND TEMPORARILY STABILIZED WITHIN 30 DAYS OF INITIAL DISTURBANCE OF THE SOIL. IF THE DISTURBANCE IS WITHIN 100 FEET OF A STREAM OR POND, THE AREA SHALL BE STABILIZED WITHIN 7 DAYS OR PRIOR TO ANY STORM EVENT (THIS WOULD INCLUDE WETLANDS).
- SEDIMENT BARRIERS (SILT FENCE, STRAW BARRIERS, ETC.) SHOULD BE INSTALLED PRIOR TO ANY SOIL DISTURBANCE OF THE CONTRIBUTING DRAINAGE AREA ABOVE THEM. MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL AREAS WITH SLOPES GREATER THAN 15% AFTER OCTOBER 1ST THE SAME APPLIES FOR ALL SLOPES GREATER THAN 8%.
- INSTALL SILTATION BARRIER AT TOE OF SLOPE TO FILTER SILT FROM RUNOFF. SEE SILTATION BARRIER DETAILS FOR PROPER INSTALLATION. SILTATION BARRIER WILL REMAIN IN PLACE PER NOTE #5.
- ALL EROSION CONTROL STRUCTURES WILL BE INSPECTED, REPLACED AND/OR REPAIRED EVERY 7 DAYS AND IMMEDIATELY FOLLOWING ANY SIGNIFICANT RAINFALL OR SNOW MELT OR WHEN NO LONGER SERVICEABLE DUE TO SEDIMENT ACCUMULATION OR DECOMPOSITION. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY SHALL BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE HALF THE HEIGHT OF THE BARRIER. SEDIMENT CONTROL DEVICES SHALL REMAIN IN PLACE AND BE MAINTAINED BY THE CONTRACTOR UNTIL AREAS UPSLOPE ARE STABILIZED BY TURF
- NO SLOPES, EITHER PERMANENT OR TEMPORARY, SHALL BE STEEPER THAN TWO TO ONE (2:1).
- IF FINAL SEEDING OF THE DISTURBED AREAS IS NOT COMPLETED 45 DAYS PRIOR TO THE FIRST KILLING FROST, USE TEMPORARY MULCH (DORMANT SEEDING MAY BE ATTEMPTED AS WELL) TO PROTECT THE SITE AND DELAY SEEDING UNTIL THE NEXT RECOMMENDED SEEDING PERIOD.
- TEMPORARY SEEDING OF DISTURBED AREAS THAT HAVE NOT BEEN FINAL GRADED SHALL BE COMPLETED 45 DAYS PRIOR TO THE FIRST KILLING FROST TO PROTECT FROM SPRING RUNOFF PROBLEMS.
- DURING THE CONSTRUCTION PHASE, INTERCEPTED SEDIMENT WILL BE RETURNED TO THE SITE AND REGRADED ONTO OPEN AREAS.
- REVEGETATION MEASURES WILL COMMENCE UPON COMPLETION OF CONSTRUCTION EXCEPT AS NOTED ABOVE. ALL DISTURBED AREAS NOT OTHERWISE STABILIZED WILL BE GRADED, SMOOTHED, AND PREPARED FOR FINAL SEEDING AS FOLLOWS:
- SIX INCHES OF LOAM WILL BE SPREAD OVER DISTURBED AREAS AND SMOOTHED TO A UNIFORM SURFACE.
- APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST. IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL FERTILIZER MAY BE APPLIED AT THE RATE OF 800 LB PER ACRE OR 18.4 LB PER 1.000 SF USING 10-20-20 OR EQUIVALENT, APPLY GROUND LIMESTONE (EQUIVALENT TO 50% CALCIUM PLUS MAGNESIUM OXIDE) AT A RATE OF 3 TONS PER ACRE (138 LB PER1,000 SF).
- FOLLOWING SEED BED PREPARATION, DITCHES AND BACK SLOPES WILL BE SEEDED TO A MIXTURE OF 47% CREEPING RED FESCUE, 5% REDTOP, AND 48% TALL FESCUE. THE LAWN AREAS WILL BE SEEDED TO A PREMIUM TURF MIXTURE OF 44% KENTUCKY BLUE-GRASS, 44% CREEPING RED FESCUE, AND 12% PERENNIAL RYEGRASS: SEEDING RATE IS 1.03 LBS PER 1,000 SF LAWN QUALITY SOD MAY BE SUBSTITUTED FOR SEED.
- STRAW MULCH AT THE RATE OF 70-90 LBS PER 1,000 SF. A HYDRO-APPLICATION OF WOOD OR PAPER FIBER SHALL BE APPLIED FOLLOWING SEEDING. A SUITABLE BINDER SUCH AS CURASOL OR RMB PLUS WILL BE USED ON STRAW MULCH FOR WIND CONTROL.
- ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED ONCE THE SITE IS STABILIZED.
- 12. WETLANDS WILL BE PROTECTED W/strawBALES AND/OR SILT FENCE INSTALLED AT THE EDGE OF THE WETLAND OR THE BOUNDARY OF WETLAND DISTURBANCE.
- 13. ALL AREAS WITHIN 100 FEET OF A FLAGGED WETLAND OR STREAM SHALL HAVE AN EXPOSURE WINDOW OF NOT MORE THAN 7 DAYS.
- ALL AREAS WITHIN 100 FEET OF A FLAGGED WETLAND OR STREAM SHALL FOLLOW APPROPRIATE EROSION CONTROL MEASURES PRIOR TO EACH STORM IF NOT BEING ACTIVELY WORKED.

LOCATION PROTECT AREA	MULCH STRAW	RATE (1000 SF) 100 POUNDS
WINDY AREA	SHREDDED OR CHOPPED CORNSTALKS STRAW (ANCHORED)*	185-275 POUNDS 100 POUNDS
MODERATE TO HIGH VELOCITY AREAS OR STEED SLODES	JUTE MESH OR EXCELSIOR MAT	AS REQUIRED

GREATER THAN 3:1

 st A HYDRO-APPLICATION OF WOOD, OR PAPER FIBER MAY BE APPLIED FOLLOWING SEEDING. A SUITABLE BINDER SUCH AS CURASOL OR RMB PLUS SHALL BE USED ON STRAW MULCH FOR WIND CONTROL.

MULCH ANCHORING

ANCHOR MULCH WITH PEG AND TWINE (1 SQ. YD/BLOCK); MULCH NETTING (AS PER MANUFACTURER); WOOD CELLULOSE FIBER (750 LBS/ACRE); CHEMICAL TACK (AS PER MANUFACTURER'S SPECIFICATIONS); USE OF A SERRATED STRAIGHT DISK. WETTING FOR SMALL AREAS AND ROAD DITCHES MAY BE PERMITTED.

EROSION CONTROL NOTES DURING WINTER CONSTRUCTION

- WINTER CONSTRUCTION PERIOD: NOVEMBER 1 THROUGH APRIL 15.
- WINTER EXCAVATION AND EARTHWORK SHALL BE DONE SUCH THAT NO MORE THAN 1 ACRE OF THE SITE IS WITHOUT STABILIZATION AT ANY ONE TIME.
- EXPOSED AREA SHOULD BE LIMITED TO THAT WHICH CAN BE MULCHED IN ONE DAY PRIOR TO ANY SNOW EVENT
- CONTINUATION OF EARTHWORK OPERATION ON ADDITIONAL AREAS SHALL NOT BEGIN UNTIL THE EXPOSED SOIL SURFACE ON THE AREA BEING WORKED HAS BEEN STABILIZED SUCH THAT NO LARGER AREA OF THE SITE IS WITHOUT EROSION CONTROL PROTECTION AS LISTED IN ITEM 2 ABOVE.
- AN AREA SHALL BE CONSIDERED TO HAVE BEEN STABILIZED WHEN EXPOSED SURFACES HAVE BEEN EITHER MULCHED WITH STRAW OR straw AT A RATE OF 100 LB. PER 1,000 SQUARE FEET (WITH OR WITHOUT SEEDING) OR DORMANT SEEDED, MULCHED AND ADEQUATELY ANCHORED BY AN APPROVED ANCHORING TECHNIQUE.
- BETWEEN THE DATES OF OCTOBER 15 AND APRIL 1ST, LOAM OR SEED WILL NOT BE REQUIRED. DURING PERIODS OF ABOVE FREEZING FEMPERATURES THE SLOPES SHALL BE FINE GRADED AND EITHER PROTECTED WITH MULCH OR TEMPORARILY SEEDED AND MULCHED UNTIL SUCH TIME AS THE FINAL TREATMENT CAN BE APPLIED. IF THE DATE IS AFTER NOVEMBER 1ST AND IF THE EXPOSED AREA HAS BEEN LOAMED, FINAL GRADED AND IS SMOOTH, THEN THE AREA MAY BE DORMANT SEEDED AT A RATE OF 200 - 300% HIGHER THAN SPECIFIED FOR PERMANENT SEED AND THEN MULCHED. IF CONSTRUCTION CONTINUES DURING FREEZING WEATHER, ALL EXPOSED AREAS SHALL BI CONTINUOUSLY GRADED BEFORE FREEZING AND THE SURFACE TEMPORARILY PROTECTED FROM EROSION BY THE APPLICATION OF MULCH. SLOPES SHALL NOT BE LEFT UNEXPOSED OVER THE WINTER OR ANY OTHER EXTENDED TIME OF WORK SUSPENSION UNLESS TREATED IN THE ABOVE MANNER. UNTIL SUCH TIME AS WEATHER CONDITIONS ALLOW DITCHES TO BE FINISHED WITH THE PERMANENT SURFACE TREATMENT, EROSION SHALL BE CONTROLLED BY THE INSTALLATION OF BALES OF straw OR STONE CHECK DAMS IN ACCORDANCE WITH THE STANDARD DETAILS.
- MULCHING REQUIREMENTS:
- BETWEEN THE DATES OF NOVEMBER 1ST AND APRIL 15TH ALL MULCH SHALL BE ANCHORED BY EITHER PEG LINE, MULCH NETTING OR
- MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL DRAINAGE WAYS WITH A SLOPE GREATER THAN 3% FOR SLOPE EXPOSED TO DIRECT WINDS AND FOR ALL OTHER SLOPES GREATER THAN 8%.
- MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL AREAS WITH SLOPES GREATER THAN 15% AFTER OCTOBER 1ST THE SAME APPLIES FOR ALL SLOPES GREATER THAN 8%.
- AFTER NOVEMBER 1ST THE CONTRACTOR SHALL APPLY DORMANT SEEDING OR MULCH AND ANCHORING ON ALL BARE EARTH AT THE END
- DURING THE WINTER CONSTRUCTION PERIOD ALL SNOW SHALL BE REMOVED FROM AREAS OF SEEDING AND MULCHING PRIOR TO
- 10. STOCKPILING OF MATERIALS (DIRT, WOOD, CONSTRUCTION MATERIALS, ETC.) SHALL REMAIN COVERED AT ALL TIMES TO MINIMIZE ANY DUST PROBLEMS THAT MAY OCCUR WITH ADJACENT PROPERTIES AND TO PROVIDE MAXIMUM PROTECTION AGAINST EROSION RUNOFF
- 11. EXISTING CATCH BASIN STRUCTURES SHALL BE PROTECTED UNTIL SUCH TIME AS THEY ARE REMOVED.

CONSTRUCTION SEQUENCE

THE FOLLOWING CONSTRUCTION SEQUENCE IS RECOMMENDED:

-INSTALLATION OF STABILIZED CONSTRUCTION ENTRANCE/EXIT (AS SHOWN)

-INSTALLATION OF EROSION CONTROL BARRIER (STRAW BALES AND SILT FENCE) (AS SHOWN)

-INSTALLATION OF INLET PROTECTION IN STREET (AS SHOWN)

-DEMOLITION OF EXISTING SITE PAVEMENT AND AMENITIES (SEE DEMOLITION PLAN)

-CLEARING AND GRUBBING (SEE DEMOLITION PLAN)

-EARTHWORK AND EXCAVATION/FILLING AS NECESSARY

-CONSTRUCTION OF UTILITIES (EXCLUDING SANITARY)

-STABILIZE PERMANENT LAWN AREAS AND SLOPES WITH TEMPORARY SEEDING -INSTALLATION OF INLET PROTECTION OF ON-SITE UTILITIES (AS SHOWN)

-CONSTRUCTION OF BUILDINGS

-CONSTRUCTION OF SEPTIC SYSTEM

-CONSTRUCTION OF ALL CURBING AND LANDSCAPE ISLANDS AS INDICATED ON THE PLANS

-SPREAD TOPSOIL ON SLOPED AREAS AND SEED AND MULCH

-FINAL GRADING OF ALL SLOPED AREAS

-PLACE 6" TOPSOIL ON SLOPES AFTER FINAL GRADING COMPLETED. FERTILIZE, SEED, AND MULCH SEED MIXTURE TO BE INSTALLED AS REQUIRED.

-PAVE PARKING LOT AND BERM

ELEVATION

2"-3" CLEAN ANGULAR— CRUSHED STONE

(6" MIN. THICKNESS)

EXISTING GROUND-

PROFILE VIEW

CONSTRUCTION)

ACCESS

DRIVE

PLAN VIEW

CHART 1

GRADE TO DRAIN-

PUBLIC ROADWAY

SEE EROSION CONTROL PLAN FOR-

SITE SPECIFIC CONSTRUCTION PERIOD

TORMWATER MANAGEMENT REQUIREMENTS

PERCENT SLOPE OF ROADWAY

2% TO 5%

AWAY FROM

-LANDSCAPING PER LANDSCAPING PLAN

-REMOVE EROSION CONTROLS AS DISTURBED AREAS BECOME STABILIZED TO 70% STABILIZATION OR GREATER.

- AREA OF SITE CONSTRUCTION

TRUNK, WHICHEVER IS GREATER

CONSTRUCTION EQUIPMENT

REMAIN UNDISTURBED DURING

' WOOD & WIRE SNOW

FENCE WITH STEEL

STAKES 18' O.C.

"L" = 50' MIN. (SEE CHART 1)

PUBLIC RIGHT-OF-WAY/

PITCH TO DRAIN AWAY FROM-

"L" = 50' MIN. (SEE CHART 1)

PROVIDE CORNER ROUNDINGS-

(AS APPLICABLE FOR SITE

SPECIFIC CONDITIONS)

CONSTRUCTION—V

FENCE / GATES

(AS APPLICABLE)

LENGTH OF STONE REQUIRED

ENTIRE ENTRANCE STABILIZED WITH FABC BASE COURSE (1

STABILIZED CONSTRUCTION EXIT

FINE GRAINED SOILS

COARSE GRAINED SOILS

(1) AS PRESCRIBED BY LOCAL ORDINANCE OR OTHER GOVERNING AUTHORITY.

AREA WITHIN PROTECTION ZONE/TREE DRIP LINE

FENCE TO FOLLOW TREE DRIP LINE OR 6' FROM

- WOOD & WIRE SNOW FENCE USED AS TREE GUARD TO PREVENT DAMAGE FROM

- TREE DRIP LINE/TREE PROTECTION ZONE

AREA WITHIN TREE PROTECTION ZONE TO

- 4' WOOD & WIRE SNOW FENCE WITH STEEL STAKES 18" O.C.

PUBLIC R.O.W.

(OR SHOULDER)

MAINTENANCE NOTES:

INSPECT STABILIZED

RAIN STORM EVENT.

CONSTRUCTION ENTRANCE

ANTI-TRACKING PAD AND

SEDIMENT DISPOSAL AREA

WEEKLY OR AFTER EVERY MAJOR

WASH WATER (IF USED) SHALL B

DIRECTED TOWARD A SEDIMENT

TRAP, SUFFICIENTLY SIZED FOR

SPECIFIC SITE CONDITIONS.

EXCESSIVELY MUD-CLOGGED

STONE SHALL BE REMOVED AND

N.T.S.

FABRIC UNDER STONE

(MIRAFI 140N, OR EQUAL)

PROTECTED AREA WORK AREA — LOOSE COMPOST BACKFILL **ANCHOR** — STRAW - EFFECTIVE HEIGHT OF (SEE NOTE 1) WATTLE SEDIMENT CONTROL 12" MIN - 2:1 MAXIMUM GRADE FOR SIDE Section View STAKING DEPTH SLOPE LOOSE COMPOST DIRECTION OF FLOW SIZE BASED ON LENGTH OF BACKFILL

Plan View

24" - 19" MIN

– 12" MIN OVERLAP

AREA

CONSTRUCTION NOTES

- 1. ANCHOR TO BE A 2" X 2" X 36" HARD WOOD STAKE, OR APPROVED EQUAL.
- 2. COMPOST FOR SILT SOCK FILL MATERIAL TO BE PROVIDED BY THE MANUFACTURER IN CONJUNCTION WITH THE ENGINEER TO PROVIDE THE REQUIRED REMOVAL OF SEDIMENT OR OTHER POLLUTANTS FROM RUNOFF.
- 3. COMPOST MATERIAL SHALL BE DISPERSED ON SITE, AS DETERMINED BY THE
- LOCAL CONSERVATION AGENT OR THE DESIGN ENGINEER. 4. SILT SOCK SHALL BE INSPECTED AT LEAST ONCE EVERY SEVEN DAYS OR PER

LOCAL AND STATE REQUIREMENTS. REPAIR OR REPLACEMENT SHALL BE

5. METHOD OF INSTALLATION SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS.

PERFORMED PROMPTLY, AS NEEDED.





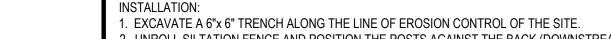
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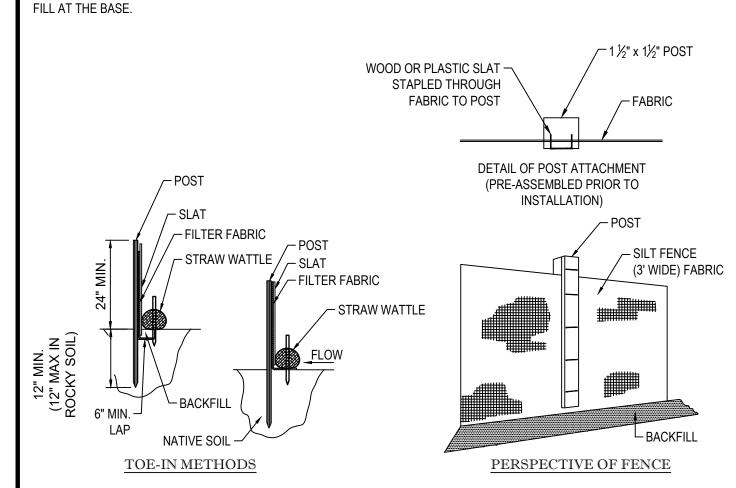
STRAW BALE DETAIL



2. UNROLL SILTATION FENCE AND POSITION THE POSTS AGAINST THE BACK (DOWNSTREAM) WALL OF THE TRENCH (NET SIDE AWAY FROM FLOW DIRECTION).

N.T.S.

3. DRIVE THE POST INTO THE GROUND UNTIL THE NETTING IS LAYING ACROSS THE TRENCH BOTTOM. 4. LAY THE TOE-IN FLAP OF THE FABRIC ONTO THE UNDISTURBED BOTTOM OF THE TRENCH, BACKFILL THE TRENCH AND TAMP THE SOIL. TOE-IN CAN ALSO BE ACCOMPLISHED BY LAYING FABRIC FLAP ON UNDISTURBED GROUND AND PILING & TAMP- ING



TREE PROTECTION DURING CONSTRUCTION N.T.S.

ANCHOR

1:3 MAXIMUM SLOPE

LOOPS SIZED FOR 1" REBAR.

LIFT FILTER BAG FROM INLET

USING REBAR FOR HANDLES.

OVERFLOW HOLES~

GEOTEXTILE BAG-

1/4" BRIGHTLY COLORED NYLON-

ROPE EXPANSION RESTRAINT

LOOPS SIZED FOR 1" REBAR. USE $\overline{}$

FILTER SACK AT A SEDIMENT

COLLECTION LOCATION.

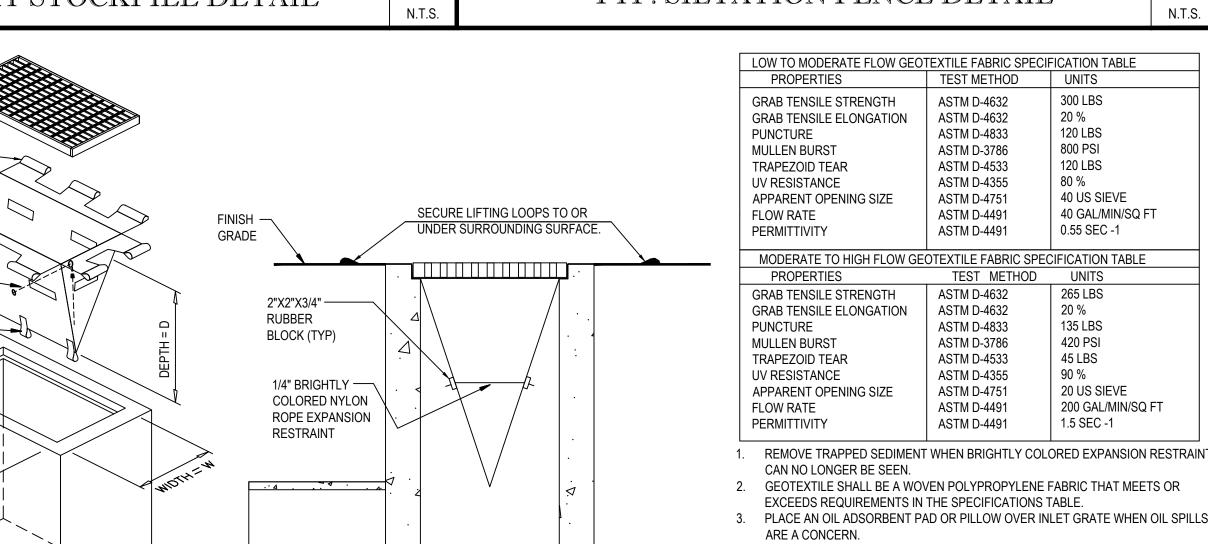
REBAR FOR A HANDLE TO EMPTY

(SEE NOTE 1)

TEMPORARY STOCKPILE DETAIL

CONSTRUCT SILT FENCE AND STRAW WATLE AROUND PERIMETER OF STOCKPILE

TYP. SILTATION FENCE DETAIL



SECTION VIEW

PROFILE VIEW OF

INSTALLED FILTER SACK

FILTER SACKS (GRATED INLETS)

GEOTEXTILE SHALL BE A WOVEN POLYPROPYLENE FABRIC THAT MEETS OR EXCEEDS REQUIREMENTS IN THE SPECIFICATIONS TABLE.

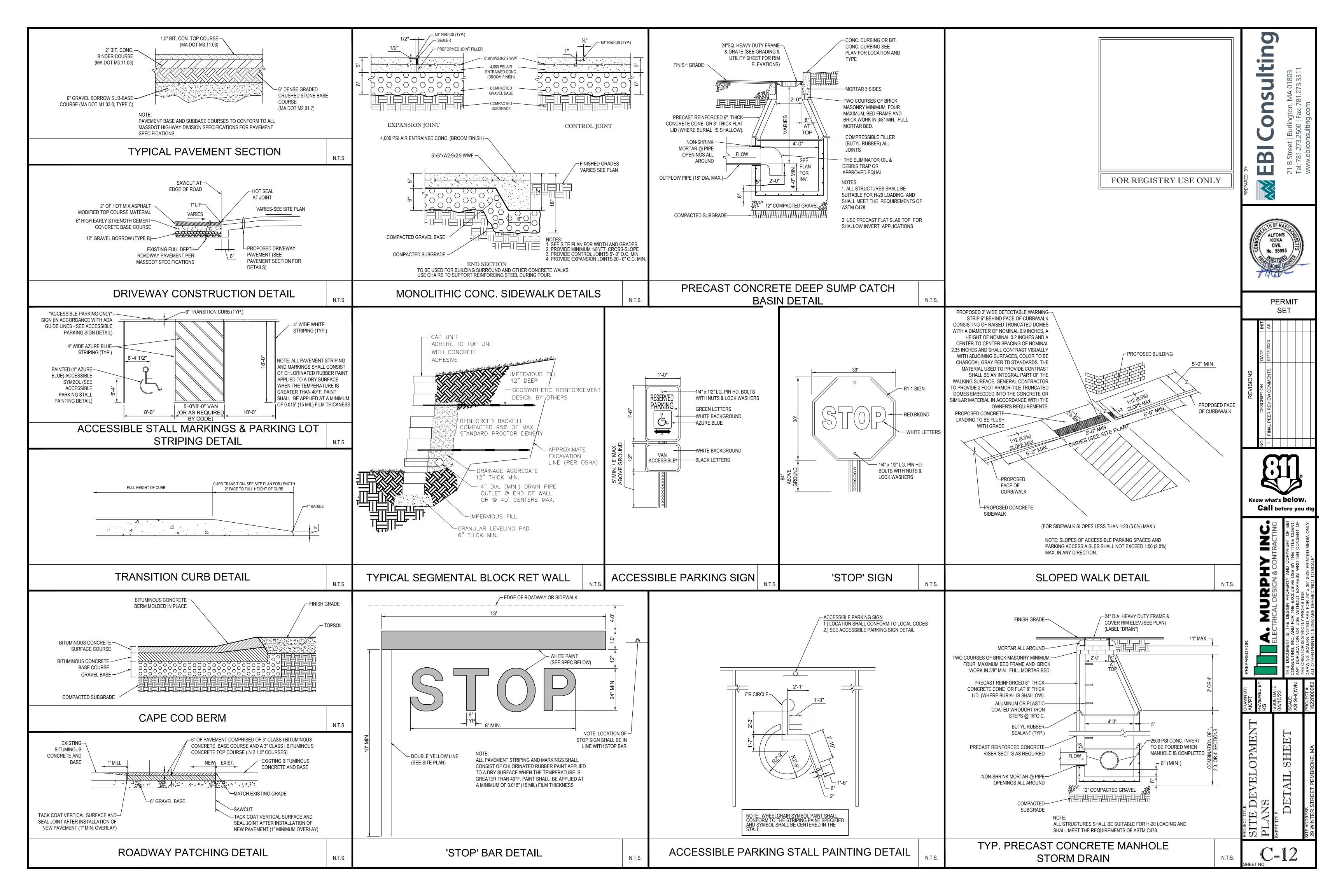
INSPECT PER REGULATORY REQUIREMENTS.

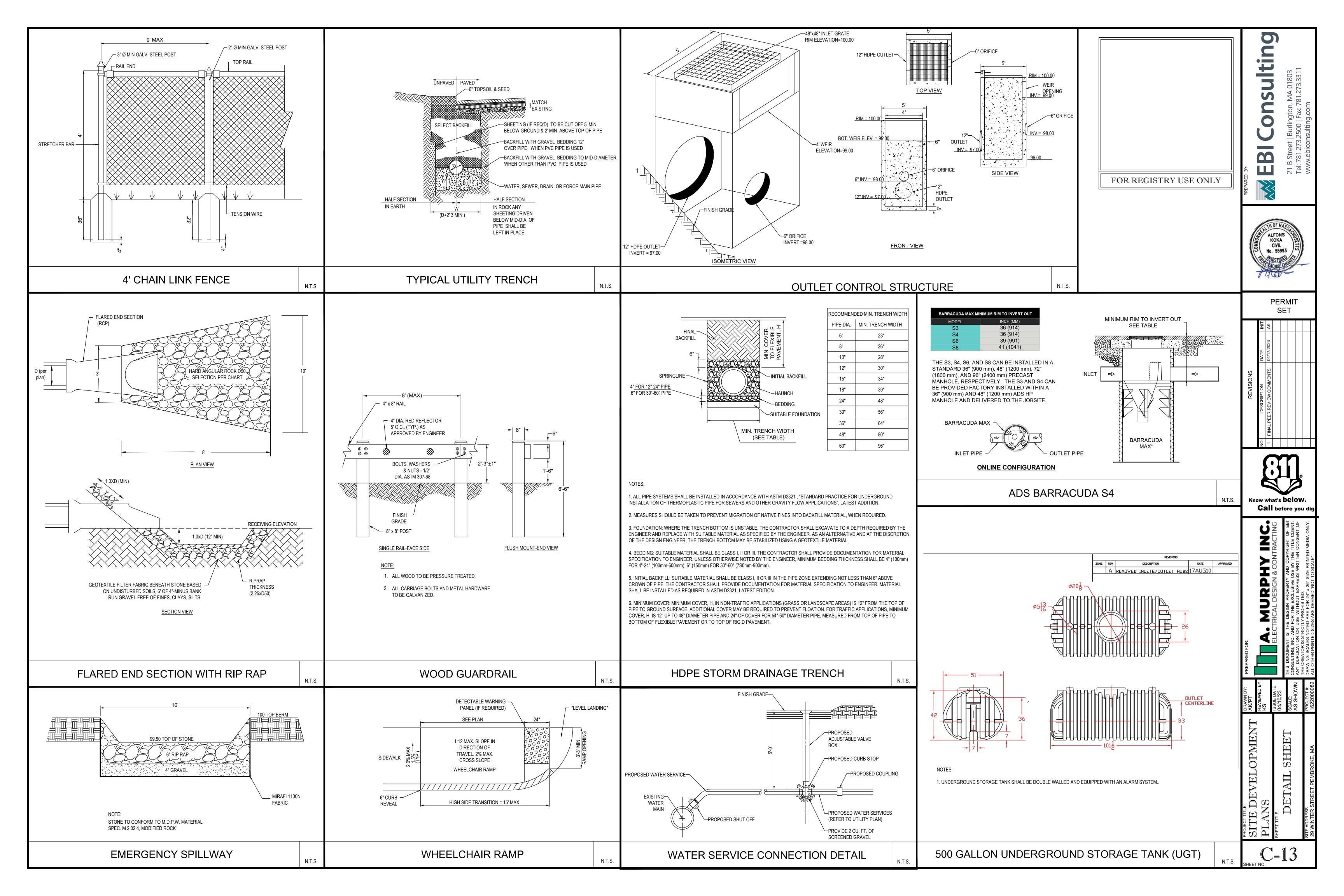
THE WIDTH, "W", OF THE FILTER SACK SHALL MATCH THE INSIDE WIDTH OF THI GRATED INLET BOX. THE DEPTH, "D", OF THE FILTER SACK SHALL BE BETWEEN 18 INCHES AND 36

THE LENGTH, "L", OF THE FILTER SACK SHALL MATCH THE INSIDE LENGTH OF TH

8. TO BE USED IN EXISTING RIGHT OF WAY. DO NOT USE IN PAVED AREAS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS

N.T.S.





PLANTING PLAN NOTES

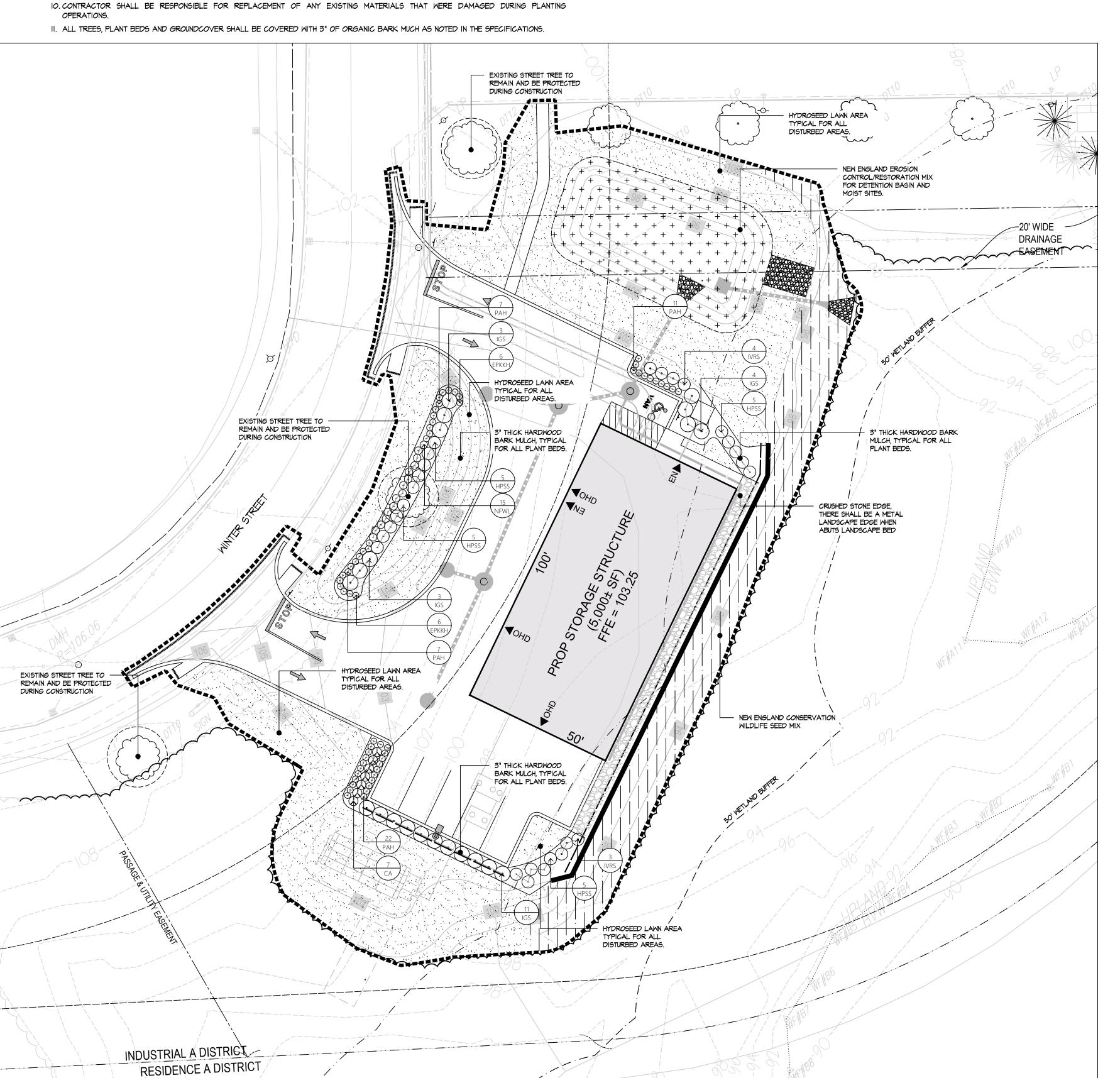
- I. THE EXISTING CONDITIONS BACKGROUND WAS AN ELECTRONIC CAD FILE AS SUPPLIED BY EBI CONSULTING ON 01/04/2023.
- 2. ALL OF THE PROPOSED PLANT MATERIAL SHALL BE INSTALLED AS SHOWN ON THE CONTRACT DOCUMENTS AND SPECIFICATIONS.
- 3. IT IS THE LANDSCAPE CONTRACTOR RESPONSIBILITY TO COORDINATE ALL ELEMENTS WITH THE GENERAL CONTRACTOR AND IF NECESSARY
- OTHER SUB CONTRACTORS AS REQUIRED TO SUCCESSFULLY PLANT ALL OF THE PROPOSED MATERIAL.
- THAT ARISE DURING THIS TIME SHALL BE BROUGHT TO THE DESIGN TEAMS ATTENTION IMMEDIATELY.
- 5. THE PLANT MATERIAL INSTALLATION SHALL HAPPEN BEFORE THE ROUGH GRADING HAS BEEN APPROVED BY THE LANDSCAPE ARCHITECT OR OWNERS REPRESENTATIVE.
- 6. ALL PLANT MATERIAL SHALL CONFORM TO THE GUIDELINES ESTABLISHED BY THE CURRENT AMERICAN STANDARD FOR NURSERY STOCK, PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMAN. ALL TREES AND SHRUBS OF THE SAME SPECIES AND SIZE SHALL HAVE MATCHING HEIGHT AND FORM UNLESS OTHERWISE NOTED ON THE PLANS AND BE APPROVED BY LANDSCAPE ARCHITECT OR OWNERS
- CONTRACT DOCUMENTS. DISCREPANCIES IN QUANTITIES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT IMMEDIATELY SO I AM ABLE TO RESOLVE THE ISSUE IN A TIMELY MANNER.

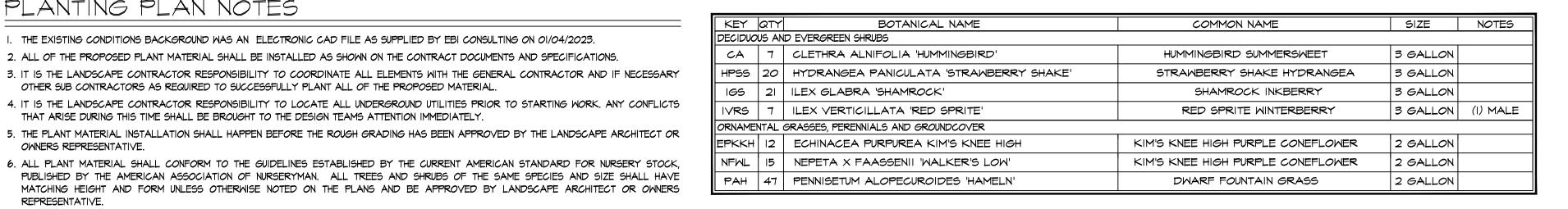
7. THE LANDSCAPE CONTRACTOR SHALL SUPPLY ALL PLANT MATERIAL IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTINGS SHOWN IN THE

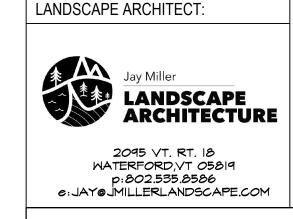
8. ALL PROPOSED TREES, SHRUBS AND ORNAMENTAL GRASSES SHALL BE STAKED PRIOR TO EXCAVATING OF THE PLANTING AREAS. ADDITIONALLY, THE CONTRACTOR SHALL PAINT ON THE GROUND THE EXTENDS OF THE PROPOSED PLANT BEDS AND ALSO SHOW THE AREAS OF THE GROUND COVER AND PERENNIALS. THE FINAL LAYOUT TO BE APPROVED BY LANDSCAPE ARCHITECT OR OWNERS REPRESENTATIVE.

9. THE CONTRACTOR SHALL FURNISH PLANT MATERIAL FREE OF PESTS OR PLANT DISEASES. PRESELECTED OR TAGGED ANY MATERIAL SHALL

BE INSPECTED BY THE LANDSCAPE ARCHITECT AND CERTIFIED PEST AND DISEASE FREE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO WARRANTY ALL PLANT MATERIAL FOR (I) ONE FULL YEAR FROM THE TIME OF FINAL ACCEPTANCE OF THE PLANTING.







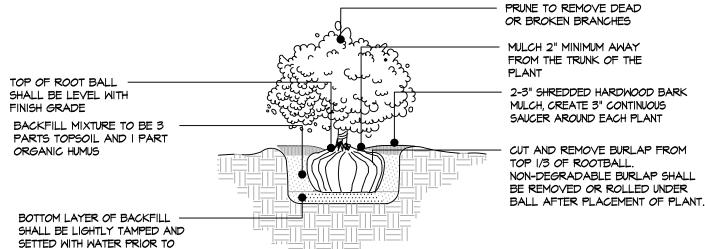
PLACEMENT OF PLANT

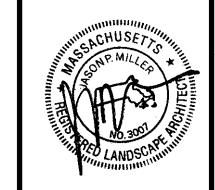


THE SPECIFICATIONS

COMPACTED SOILS.

-SCARIFY AND LOOSEN ANY



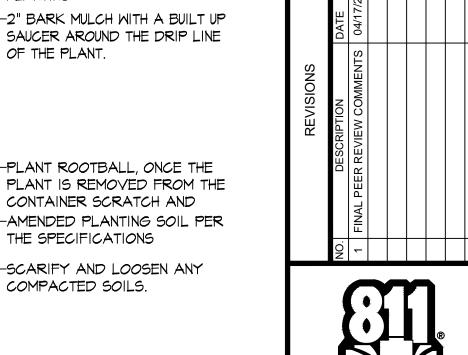


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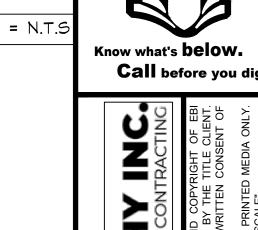
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SHRUB PLANTING SCALE = N.T.S -PERENNIAL OR GROUNDCOVER PLANTING -2" BARK MULCH WITH A BUILT UP SAUCER AROUND THE DRIP LINE OF THE PLANT. -PLANT ROOTBALL, ONCE THE PLANT IS REMOVED FROM THE CONTAINER SCRATCH AND



SCALE = N.T.S ORNAMENTAL GRASSES AND PERENNIALS PLANTING -LAWN, EITHER SEED OR SOD, REFER TO PLANTING PLAN FOR LOCATIONS -AMENDED TOPSOIL PER SPECIFICATIONS -SCARIFY AND LOOSEN SUBGRADE BEFORE PLACING THE AMENDED -UNDISTURBED OR COMPACTED SUBGRADE

SCALE = N.T.S LOAM AND SEED



DEVELOPMENT

