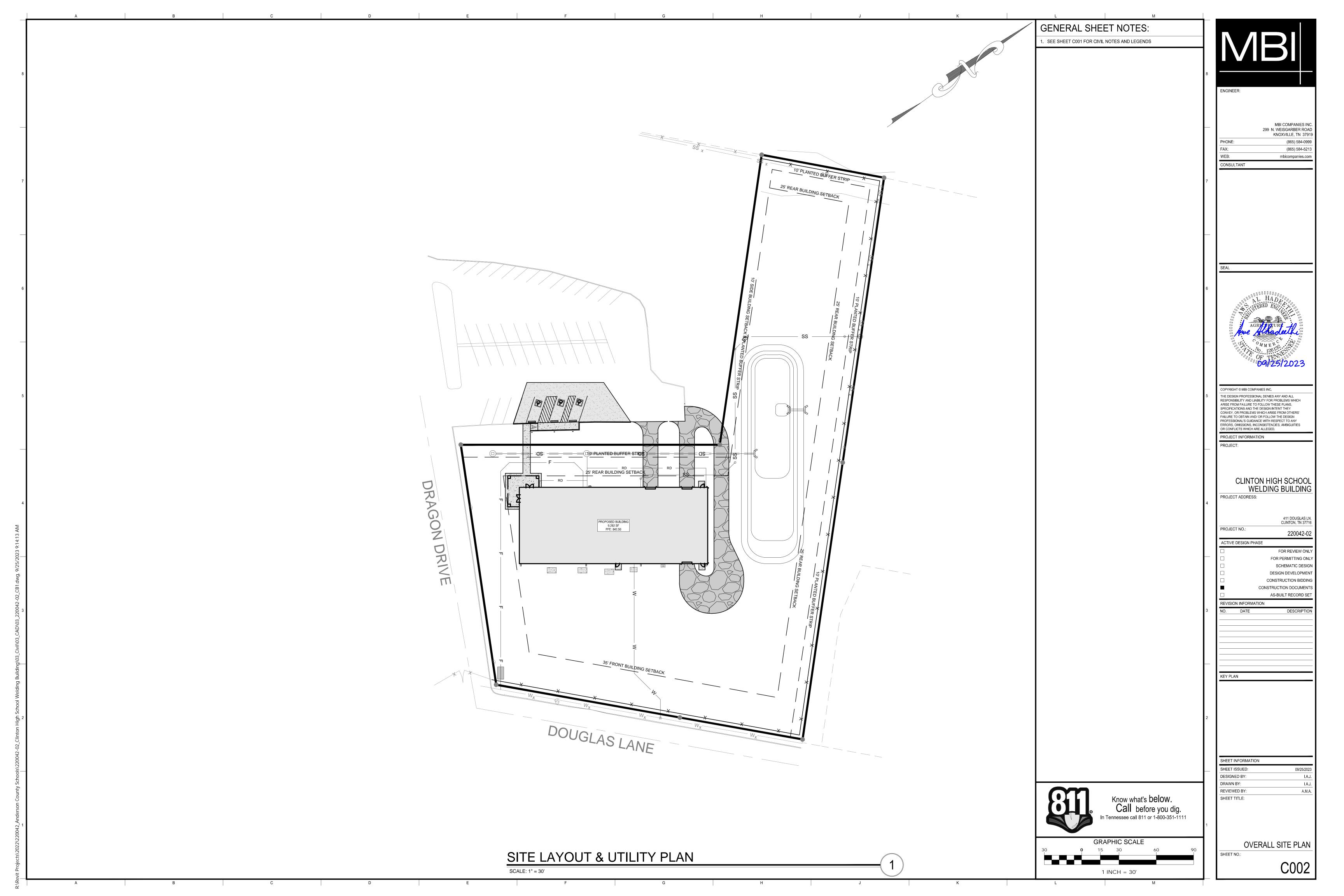
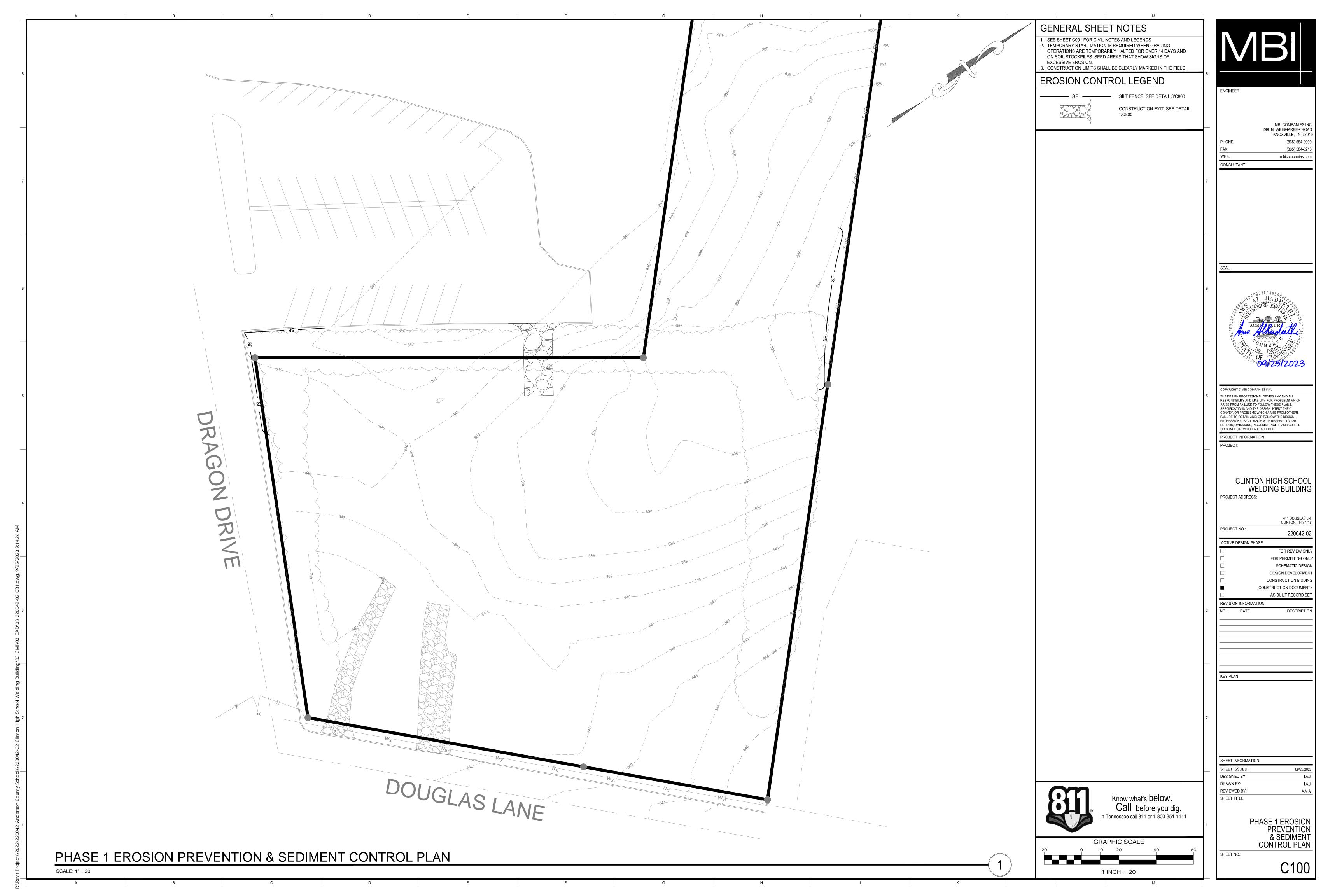
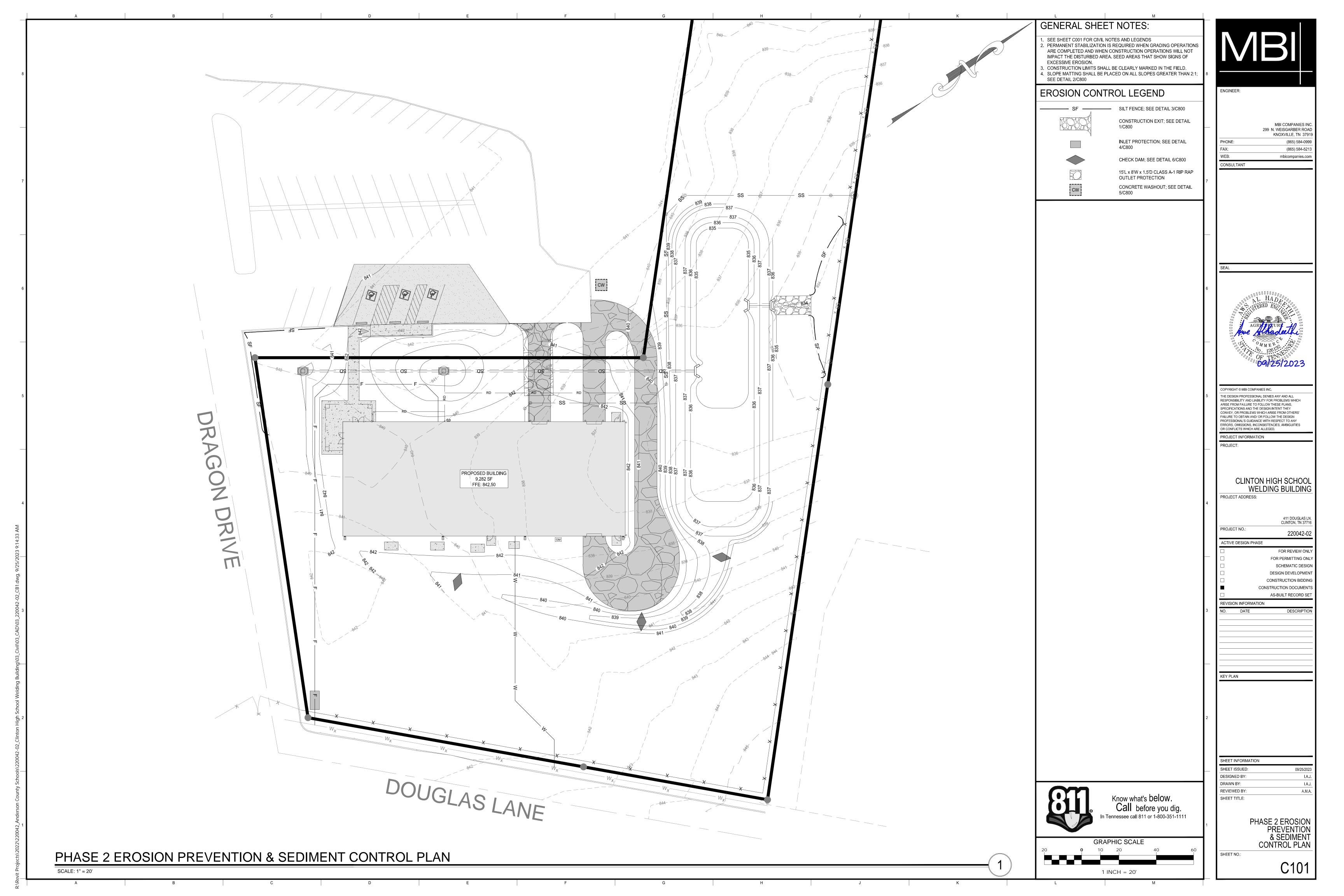
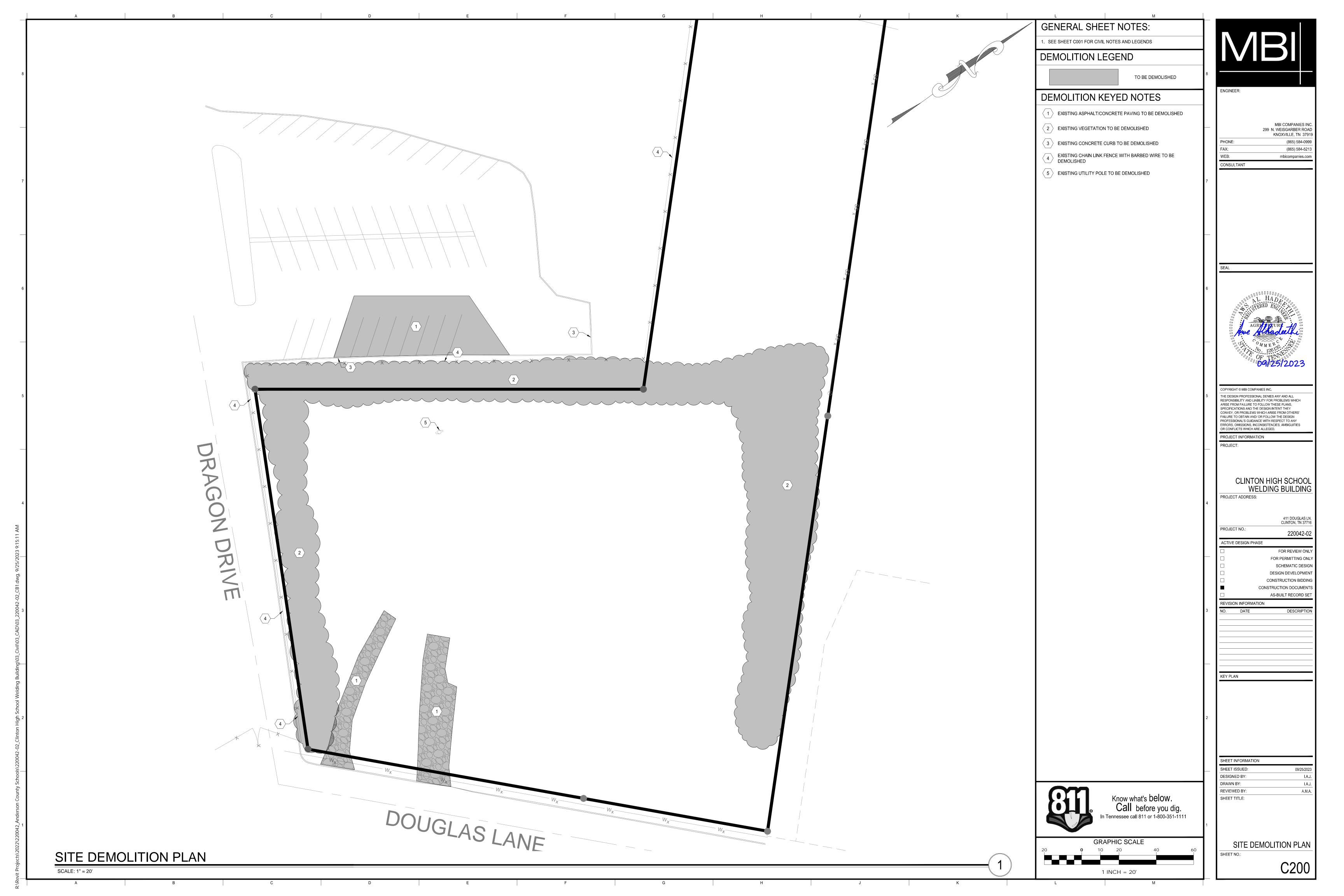
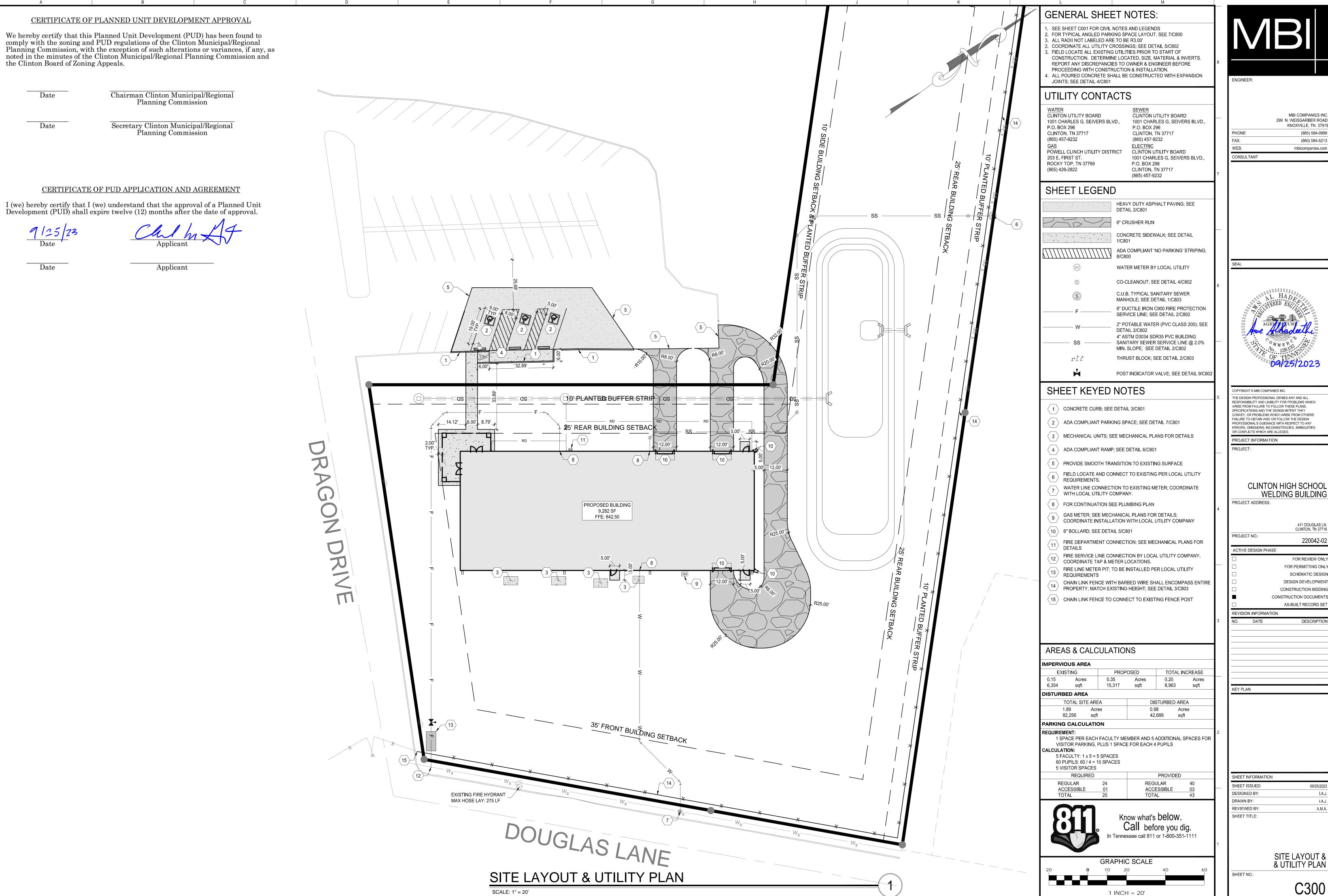
GENERAL NOTES EROSION CONTROL NOTES **ABBREVIATIONS** LEGEND EXISTING PROPOSED PROPERTY INFORMATION COMPLY WITH ALL PERTINENT PROVISIONS OF THE "MANUAL OF ACCIDENT PREVENTION IN CONSTRUCTION" ISSUED UNLESS SHOWN OTHERWISE, ALL DISTURBED AREAS NOT ULTIMATELY RECEIVING A HARD SURFACE SHALL HAVE A NOTE: ALL ABBREVIATIONS MAY NOT APPLY TO THIS PROJECT BY A.G.C. OF AMERICA, INC. AND THE SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION ISSUED BY THE U.S. MINIMUM DEPTH OF 5" OF TOPSOIL AND BE STABILIZED WITH GRASS. DEPARTMENT OF LABOR, 29 CFR 1926 OSHA. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL APPLICABLE PERMITS AND COMPLYING WITH ALL APPLICABLE **OWNER** —— —— —— P/E —— EASEMENT — — — — C/E — LOCAL, STATE AND FEDERAL REGULATIONS RELATED TO SITE GRADING, EROSION AND SEDIMENTATION CONTROL, AND THE APPROPRIATE TRAFFIC CONTROL SIGNS AS DEFINED BY THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES DR. TIM PARROT, DIRECTOR OF SCHOOLS AMERICAN ASSOCIATION OF STATE HIGHWAY & TRANSPORTATION OFFICIALS STORMWATER RUNOFF. F.H.W.A., 2009", SHALL BE INSTALLED AT THE INCEPTION OF CONSTRUCTION AND SHALL BE PROPERLY MAINTAINED ADDRESS: 100 N MAIN ST. AMERICANS WITH DISABILITIES ACT NO LAND DISTURBANCE IS PERMISSIBLE UNTIL THE CONTRACTOR HAS SUBMITTED A SIGNED NOTICE OF INTENT AND AND/OR OPERATED DURING THE TIME SUCH SPECIAL CONDITIONS EXIST. THEY SHALL REMAIN IN PLACE ONLY AS CLINTON, TN 37716 PROPERTY LINE RECEIVED A NOTICE OF COVERAGE FROM THE TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION LONG AS THEY ARE NEEDED AND SHALL BE REMOVED IMMEDIATELY AFTER NEED. APPROX. OR ~ APPROXIMATE (TDEC). COORDINATE WITH OWNER TO ENSURE THAT ALL NECESSARY PERMITS HAVE BEEN RECEIVED PRIOR TO LAND **PROPERTY DATA** NOTHING IN THE GENERAL NOTES OR SPECIAL PROVISIONS SHALL RELIEVE THE CONTRACTOR FROM THEIR MAJOR CONTOUR AMERICAN SOCIETY OF CIVIL ENGINEERS ASCF DISTURBANCE. RESPONSIBILITIES TOWARD THE SAFETY AND CONVENIENCE OF THE GENERAL PUBLIC. A NOTICE WILL BE POSTED BY NEAR THE CONSTRUCTION ENTRANCE BEFORE WORK BEGINS CONTAINING: MINOR CONTOUR ADDRESS: 411 DOUGLAS LN. VERIFY THE LOCATIONS OF ALL PROPOSED ITEMS PRIOR TO COMMENCING CONSTRUCTION. NOTIFY A/E ASTM AMERICAN SOCIETY FOR TESTING AND MATERIALS A. A COPY OF THE NOC WITH THE TRACKING NUMBER ASSIGNED BY TDEC. CLINTON, TN 37716 IMMEDIATELY OF ANY DISCREPANCIES BEFORE STARTING WORK. COMMENCEMENT OF CONSTRUCTION AFTER SUCH ENGINEER: AMERICAN WATER WORKS ASSOCIATION SANITARY SEWER B. THE NAME, COMPANY NAME, TELEPHONE NUMBER, EMAIL AND ADDRESS OF THE PROJECT SITE OPERATOR DISCOVERY SHALL BE AT THE CONTRACTOR'S RISK. INCLUDING A LOCAL CONTACT PERSON. ANY AREA THAT IS DISTURBED OUTSIDE THE LIMITS OF CONSTRUCTION DURING THE LIFE OF THE PROJECT SHALL BE GAS PIPING BACK OF CURB C. A PROJECT DESCRIPTION PARCEL ID: 008.00 REPAIRED BY THE CONTRACTOR AT THEIR EXPENSE. BUILDING FURNISH, ERECT AND MAINTAIN EROSION AND SEDIMENTATION CONTROL MEASURES IN CONFORMITY WITH THE WATER LINE ZONING: BOULEVARD TENNESSEE EROSION AND SEDIMENT CONTROL HANDBOOK, FOURTH EDITION, AS PREPARED BY TDEC. SEE PLAN AND DEMOLITION NOTES BENCHMARK OVERHEAD UTILITIES DETAILS FOR SPECIFIC EROSION AND SEDIMENTATION CONTROL MEASURES. **VERTICAL DATUM: NAVD 88** MBI COMPANIES IN DO ALL DEMOLITION WORK REQUIRED TO REMOVE EXISTING MASONRY WALLS. PAVING, FOUNDATIONS, CONCRETE **BOTTOM OF WALL** EROSION AND SEDIMENTATION CONTROL MEASURES SHOWN ON THIS PLAN ARE A MINIMUM REQUIREMENT. MAINTAIN, 299 N. WEISGARBER ROAD ELECTRIC (UNDERGROUND) SLABS, EXISTING UNDERGROUND PIPING, CONDUIT, BUILDING FINISHES, DOORS, WINDOWS AS SHOWN ON THE MODIFY AND ADD EROSION AND SEDIMENTATION CONTROL MEASURES DURING CONSTRUCTION AS NECESSARY TO KNOXVILLE, TN 3791 SETBACKS: 30' FRONT CURVE DELTA ANGLE DRAWINGS AND ANY OTHER NECESSARY ITEMS TO INSTALL THE PROPOSED WORK. PREVENT SEDIMENT FROM LEAVING THE SITE. TELEPHONE/COMM 25' REAR (865) 584-09 CONTRACTORS SUBMITTING PROPOSALS SHALL DETERMINE THE QUANTITIES OF DEMOLITION WORK REQUIRED BY CATCH BASIN ENVIRONMENTAL PERMIT REQUIREMENTS: SHOW COMPLIANCE WITH ALL REQUIREMENTS OF THE GENERAL NPDES 10' SIDE CUBIC FEET PER SECOND FIELD INVESTIGATION OF THE BUILDING AND SITE. SD x STORM SEWER (865) 584-521 PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES CURRENTLY ADOPTED BY TDEC SUBMIT A DEMOLITION SCHEDULE TO THE PROJECT MANAGER PRIOR TO EXECUTION OF THE WORK. INDICATE CONSTRUCTION GENERAL PERMIT (CGP). PROVIDE ENGINEER AND TDEC WITH COPIES OF ALL REQUIRED PAPERWORK. PERFORM AND PROVIDE ALL mbicompanies.co ROOF DRAINS **CURB INLET** PROPOSED METHODS AND SEQUENCE OF OPERATIONS. INCLUDE PROPOSAL FOR CONTROL OF DUST AND NOISE, MAINTENANCE. INSPECTIONS, RECORD KEEPING, AND REPORTING. ONSULTANT CENTERLINE AND COORDINATION FOR SHUT-OFF, CAPPING, AND CONTINUATION OF UTILITY SERVICES. FIRE SUPPRESSION LINE INSPECTIONS WILL BE PERFORMED BY PERSONNEL CERTIFIED IN THE TDEC LEVEL 1 EROSION CONTROL COURSE. CORRUGATED METAL PIPE MAINTAIN TEMPORARY BARRICADES FOR PROTECTION OF JOB PERSONNEL AND THE PUBLIC. REMOVE BARRICADES PROOF OF INSPECTOR'S CERTIFICATION SHALL BE KEPT ON FILE AT THE JOBSITE ALONG WITH ALL INSPECTION REPORTS CONCRETE MASONRY UN FORCE MAIN WHEN NO LONGER REQUIRED AND OTHER REQUIRED PAPERWORK IDENTIFIED IN THE CGP. MAINTENANCE REPAIR NEEDS IDENTIFIED BY INSPECTIONS CLINTON UTILITIES BOARD CONDUCT OPERATIONS IN SUCH A MANNER AS TO MINIMIZE INTERFERENCE WITH USE OF PUBLIC WAYS AND SILT FENCE SHALL BE ADDRESSED WITHIN 7 DAYS OR BEFORE THE NEXT RAIN EVENT. DOCUMENT WHEN MAINTENANCE ITEMS ARE ADJACENT USED FACILITIES. DO NOT CLOSE, BLOCK OR OTHERWISE OBSTRUCT USE OF PUBLIC WAYS OR FACILITIES CLEANOUT COMPLETED ON THE INSPECTION REPORT. WITHOUT WRITTEN CONSENT OF AUTHORITIES HAVING JURISDICTION. PROVIDE ALTERNATIVE ROUTES TO CLOSED CONCRETE REINFORCED SILT FENCE MAINTAIN A RAIN GAUGE AND RAINFALL RECORDS ON SITE AS REQUIRED BY TDEC. CONTINUOUS OR OBSTRUCTED FACILITIES AS REQUIRED BY LOCAL REGULATIONS. **EROSION AND SEDIMENTATION CONTROL IMPLEMENTATION:** CONSTRUCTION LIMITS EXISTING UTILITIES INDICATED TO REMAIN SHALL BE KEPT IN SERVICE AND PROTECTED FROM DAMAGE DURING STAKE THE DISTURBED AREA LIMITS AND UNDISTURBED AREAS IN THE FIELD BEFORE BEGINNING WORK DEGREES DEMOLITION OPERATIONS INSTALL CONSTRUCTION EXIT SETBACK DOUBLE CATCH BASIN DO NOT INTERRUPT EXISTING UTILITIES USED OR OCCUPIED FACILITIES UNLESS AUTHORIZED IN WRITING BY TEMPORARY EROSION AND SEDIMENTATION CONTROL: PROVIDE MEASURES TO PREVENT SOIL EROSION AND DIAMETER AUTHORITIES HAVING JURISDICTION IF INTERRUPTION IS ALLOWED, PROVIDE ALTERNATIVE TEMPORARY SERVICES EXISTING TO BE REMOVED DISCHARGE OF SOIL-BEARING WATER RUNOFF AND AIRBORNE DUST TO UNDISTURBED AREAS AND TO ADJACENT DUCTILE IRON PIPE ACCEPTABLE TO GOVERNING AUTHORITIES. PROPERTIES AND WALKWAYS. ACCORDING TO THE SITE EROSION AND SEDIMENTATION CONTROL DRAWINGS AS DRAINAGE SWALE DRAWING LOCATE, IDENTIFY, SHUT OFF, CAP AND DISCONNECT UTILITIES AT PROPERTY LINE OR VALVE AS REQUIRED. WELL AS THE CGP. PROVIDE BY-PASS CONNECTIONS AS REQUIRED TO MAINTAIN SERVICES TO ADJACENT PROPERTIES AND FACILITIES. CHECK DAM BEGIN SITE GRADING EAST PROVIDE A MINIMUM OF 72 HOURS ADVANCE NOTICE TO PROPERTY OWNERS IF SHUT-DOWN OF SERVICES IS VERIFY THAT FLOWS OF WATER REDIRECTED FROM CONSTRUCTION AREAS OR GENERATED BY REQUIRED DURING THE CHANGE-OVER. DIVERSION DITCH —**→** TD — CONSTRUCTION ACTIVITY DO NOT ENTER OR CROSS TREE- OR PLANT- PROTECTION ZONES. COORDINATE WITH ALL UTILITY COMPANIES 48 HOURS PRIOR TO ANY DEMOLITION WORK. EACH FACE INSPECT, REPAIR, AND MAINTAIN EROSION AND SEDIMENTATION CONTROL MEASURES DURING TUBES AND WATTLES **-) -) -)** EXISTING IRON PIPE REMOVE DEBRIS, RUBBISH, AND OTHER SUBSTANCES FROM SITE. LEGALLY TRANSPORT AND DISPOSE OF SUCH CONSTRUCTION UNTIL PERMANENT VEGETATION HAS BEEN ESTABLISHED EL. OR ELE MATERIALS OFF-SITE. ELEVATION CURBLINE CLEAN, REPAIR, AND RESTORE ADJOINING PROPERTIES AND ROADS AFFECTED BY EROSION AND EDGE OF PAVEMENT BURYING OR BURNING OF MATERIALS ON THE PROJECT SITE IS FORBIDDEN. SEDIMENTATION FROM THE PROJECT SITE DURING THE COURSE OF THE PROJECT. OBTAIN PERMISSION AND **ENVIRONMENTAL PROTECTION AGENCY** AVAILABILITY FOR DEMOLITION MUST BE CONFIRMED BY OWNER JUST PRIOR TO DEMOLITION. CURBLINE APPROPRIATE PERMITS TO ACCESS AREAS OUTSIDE THIS SITE. THE USE OF EXPLOSIVES IS STRICTLY PROHIBITED. ET CETERA AFTER FINAL STABILIZATION OF THE SITE, REMOVE EROSION AND SEDIMENTATION CONTROLS AND RESTORE AND BUILDING **FACH WAY** HISTORIC ARTIFACTS, INCLUDING CORNERSTONES, THEIR CONTENTS, COMMEMORATIVE PLAQUES AND TABLETS. STABILIZE AREAS DISTURBED DURING REMOVAL. ANTIQUES, AND OTHER ITEMS OF SIGNIFICANCE SHALL REMAIN THE PROPERTY OF THE OWNER. NOTIFY OWNERS EX. OR EXIST. EXISTING STORMWATER CONTROL: COMPLY WITH REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION, PROVIDE FENCE REPRESENTATIVE IF SUCH ARTICLES ARE ENCOUNTERED. OBTAIN APPROVAL REGARDING METHOD OF REMOVAL. BARRIERS IN AND AROUND EXCAVATIONS AND SUBGRADE CONSTRUCTION TO PREVENT FLOODING BY RUNOFF OF FACE OF CURB SALVAGE SUCH ARTICLES AND TURN OVER TO OWNER. VEGETATION STORMWATER FROM HEAVY RAINS. IF HAZARDOUS MATERIALS ARE ENCOUNTERED, COMPLY WITH APPLICABLE REGULATIONS IN HANDLING, REMOVING, FINISHED FLOOR ELEVATION PROJECT MANAGER OR ENGINEER MAY DIRECT CONTRACTOR TO LIMIT SURFACE AREA OF ERODIBLE EARTH AND PROTECTING AGAINST EXPOSURE OR ENVIRONMENTAL POLLUTION. FINISHED SEWER MANHOLE MATERIAL EXPOSED BY CLEARING AND GRUBBING, EXCAVATION, BORROW AND EMBANKMENT FIRE PROTECTION REGRADE ALL AREAS WHERE DEMOLITION HAS OCCURRED. PROVIDE SMOOTH TRANSITION BETWEEN EXISTING AND OPERATIONS AND MAY DIRECT CONTRACTOR TO PROVIDE IMMEDIATE PERMANENT OR TEMPORARY POLLUTION FEET NEW GRADING, THERE SHALL NOT BE ANY VOIDS, PITS, OR MOUNDING OF EARTHWORK. **GREASE TRAP** PROVIDE PERMANENT EROSION CONTROL MEASURES AT EARLIEST PRACTICAL TIME TO MINIMIZE GENERAL CONTRACTOR STORM MANHOLE REQUIREMENT FOR TEMPORARY EROSION CONTROLS. PERMANENTLY SEED AND MULCH CUT SLOPES AS SITE NOTES GRATE INLET **GALLONS PER MINUTE** JUNCTION BOX WHERE PROPOSED PAVEMENT ABUTS EXISTING PAVEMENT, THE EXISTING PAVEMENT SHALL BE CUT IN A NEAT MAINTAIN TEMPORARY EROSION CONTROL SYSTEMS INSTALLED BY CONTRACTOR AS DIRECTED BY GAS VALVE STRAIGHT LINE THROUGH PAVEMENT AND BASE. PROVIDE A SMOOTH TRANSITION. PROJECT MANAGER OR ENGINEER TO CONTROL SILTATION AT ALL TIMES THROUGHOUT WORK. PROVIDE CATCH BASIN INSTALL EXPANSION JOINT MATERIAL BETWEEN NEW AND EXISTING CONCRETE AND/OR ASPHALT MAINTENANCE OR ADDITIONAL WORK DIRECTED BY ENGINEER WITHIN 48 HOURS OF NOTIFICATION BY ENGINEER. MAINTAIN AND PROTECT EXISTING PAVEMENT OR GRAVEL SURFACES WHICH ARE TO REMAIN. CONTRACTOR SHALL EROSION CONTROL SHALL BE MAINTAINED UNTIL PAVING IS COMPLETED AND LAWNS HAVE BEEN ESTABLISHED. HIGH DENSITY POLYETHYLENE **CURB INLET** REPLACE DAMAGED AREAS, MATCHING DEPTH, MATERIAL AND GRADE OF EXISTING SURFACES. PROTECT ADJACENT PROPERTIES AND WATER RESOURCES FROM EROSION AND SEDIMENT DAMAGE THROUGHOUT THE HIGH POINT DIMENSIONS SHOWN ARE TO FACE OF CURB, CENTER OF COLUMN, EDGE OF BUILDING EXTERIOR OR CENTER OF LIFE OF THE PROJECT UNTIL A NOTICE OF TERMINATION IS FILED WITH TDEC. CONTRACTOR COORDINATE WITH THE 0 HP HDPE HIGH PERFORMANCE HIGH DENSITY POLYETHYLENE THROATED INLET OPYRIGHT © MBI COMPANIES INC PAINTED STRIPES ENGINEER AND OWNER FOR APPROVAL TO FILE A NOTICE OF TERMINATION AT THE APPROPRIATE TIME. HIGHWAY SIDEWALK AND PAVING JOINTS ARE SHOWN FOR REFERENCE ONLY. REVIEW JOINT LAYOUT WITH ALL STABILIZATION MEASURES WILL BE INITIATED AS SOON AS POSSIBLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION THE DESIGN PROFESSIONAL DENIES ANY AND ALL CLEAN OUT SPECIFICATIONS AND DETAILS BEFORE POURING CONCRETE. RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. TEMPORARY OR PERMANENT SOIL STABILIZATION AT THE INSIDE DIAMETER OR INLINE DRAIN ARISE FROM FAILURE TO FOLLOW THESE PLANS CONSTRUCTION SITE (OR PHASE OF THE PROJECT) MUST BE COMPLETED NO LATER THAN 14 DAYS AFTER THE INCH(ES) SPECIFICATIONS AND THE DESIGN INTENT THEY HEADWALL SURVEY NOTES CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. SLOPES CONVEY, OR PROBLEMS WHICH ARISE FROM OTHERS INVERT FAILURE TO OBTAIN AND/ OR FOLLOW THE DESIGN STEEPER THAN 3:1 SHALL BE STABILIZED NOT LATER THAN 7 DAYS AFTER CONSTRUCTION ACTIVITY ON THE SLOPE HAS IRON PIN FOUND BOUNDARY AND TOPOGRAPHIC INFORMATION WAS PREPARED BY MCGREW ENGINEERING & SURVEYING, $XXX.XX \times$ SPOT GRADE XXX.XX -PROFESSIONAL'S GUIDANCE WITH RESPECT TO ANY TEMPORARILY OR PERMANENTLY CEASED. PERMANENT STABILIZATION WITH PERENNIAL VEGETATION OR OTHER ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES 353 CULLOM ST., CLINTON, TN 37716. SURVEY RECEIVED 07/17/2023. PERMANENTLY STABLE. NON-ERODING SURFACE SHALL REPLACE ANY TEMPORARY MEASURES AS SOON AS OR CONFLICTS WHICH ARE ALLEGED COORDINATES ARE IN FEET AND REFERENCE TO **TENNESSEE STATE PLANE SYSTEM OF 1983**. JUNCTION BOX OUTFALL **→**OUT PRACTICABLE. UNPACKED GRAVEL CONTAINING FINES OR CRUSHER RUNS WILL NOT BE CONSIDERED A NON-ERODING BEARINGS SHOWN ARE BASED ON MAGNETIC NORTH. PROJECT INFORMATION SURFACE LENGTH THE VERTICAL DATUM IS BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) RIPRAP OUTLET PROTECTION ALL WATER DISCHARGED FROM EXCAVATIONS AND TEMPORARY SEDIMENT PONDS SHALL BE FILTERED USING FIELD VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. EXISTING UTILITIES SHOWN ON POUNDS SEDIMENT CONTROLS ACCEPTABLE TO TDEC AS WELL AS THE LOCAL AUTHORITY HAVING JURISDICTION. DRAWINGS ARE APPROXIMATE IN DEPTH AND LOCATION. REPAIR EXISTING UTILITIES DAMAGED DURING LINEAR FEET TEMP. CONSTRUCTION EXIT UNLESS OTHERWISE NOTED, RIP-RAP SHALL BE T.D.O.T. MACHINED CLASS A-1 WITH A MEDIAN RIP-RAP SIZE D50 OF 6", CONSTRUCTION AT NO COST TO THE OWNER. 9" THICK AND SHALL BE UNDERLAIN WITH A NON-WOVEN GEOTEXTILE FABRIC. . CONCRETE WASHOUT AREA SHALL BE IN CONFORMANCE WITH STANDARDS OF TDEC, AS WELL AS THE LOCAL MANHOLE PERMITTING AUTHORITY HAVING JURISDICTION. THRUST BLOCK FIELD VERIFY CRITICAL GRADES AT CONNECTION POINTS SUCH AS ENTRANCES PRIOR TO CONSTRUCTION AND AT THE END OF THE PROJECT, DURING FINAL SITE STABILIZATION, DEWATER TEMPORARY SEDIMENT PONDS AND TRAPS | MUTCD CLINTON HIGH SCHOOL MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES NOTIFY PROJECT MANAGER OR ENGINEER OF ANY DISCREPANCIES. IN CONFORMANCE WITH STANDARDS OF TDEC, AS WELL AS THE LOCAL PERMITTING AUTHORITY HAVING JURISDICTION. WELDING BUILDING WATER VALVE THE MINIMUM SLOPE FOR PARKING, SIDEWALKS, AND LANDSCAPED AREAS IS 1%. FIELD VERIFY MINIMUM SLOPE IS REMOVE ALL TEMPORARY EROSION CONTROLS AT THE END OF THE PROJECT AND COORDINATE WITH OWNER TO FILE PROJECT ADDRESS: NOTICE OF TERMINATION, AT THE APPROPRIATE TIME, WITH AUTHORITY HAVING JURISDICTION. NOT APPLICABLE WATER METER MAXIMUM SLOPE IN HANDICAP PARKING AREAS IS 2%. MAXIMUM LONGITUDINAL SIDEWALK SLOPE IS 5%. SLOPE CONTRACTOR COORDINATE WITH ENGINEER AT BEGINNING OF LAND DISTURBANCE TO DETERMINE WHETHER OR NOT NATIONAL FIRE PROTECTION AGENCY NFPA SIDEWALKS AWAY FROM BUILDING AT 1½% CROSS SLOPE UNLESS OTHERWISE NOTED. SIDEWALK CROSS SLOPE AN INITIAL SITE ASSESSMENT INSPECTION BY THE ENGINEER IS REQUIRED. IF REQUIRED, THE SITE ASSESSMENT NOT IN CONTRACT POST INDICATOR VALVE CANNOT EXCEED 2% IN ANY CASE. INSPECTION BY THE ENGINEER MUST BE PERFORMED WITHIN 1 MONTH OF STARTING CONSTRUCTION. ALLOW NEW IRON PIN UNLESS OTHERWISE NOTED, ELEVATIONS SHOWN REPRESENT FINISHED GRADES. ADJUST FOR PAVEMENT ENGINEER A MINIMUM OF 1 WEEK NOTICE IN SCHEDULING SITE ASSESSMENT INSPECTIONS. NO. OR # NUMBER FIRE HYDRANT THICKNESS, TOPSOIL, ETC. NOTICE OF INTENT ADJUST DRAINAGE STRUCTURE TOPS AS NECESSARY TO MATCH FINAL GRADES. NPDES NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM FIRE DEPARTMENT CONNECTION 220042-02 UTILITY NOTES NO SLOPE SHALL BE STEEPER THAN 2(H):1(V) NOT TO SCALE ALL EARTHWORK SHALL MEET THE FOLLOWING REQUIREMENTS AT A MINIMUM: COORDINATE WITH EXISTING UTILITIES AND STORM SEWER INSTALLATION TO AVOID CONFLICTS. UTILITY **ACTIVE DESIGN PHASE** IRRIGATION VALVE INSTALLATION AND MATERIAL SHALL MEET THE REQUIREMENTS OF **CLINTON UTILITY BOARD & POWELL** FOLLOW RECOMMENDATIONS OF THE PROJECT SUBSURFACE INVESTIGATION REPORT. REPORT ANY FOR REVIEW ONL CLINCH UTILITY DISTRICT AND ALL APPLICABLE CODES. COORDINATE WITH CLINTON UTILITY BOARD & CONTRADICTIONS TO THE PROJECT MANAGER. SOIL EXCAVATION SHALL BE CONSIDERED AS OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION GAS VALVE FOR PERMITTING ONL UNCLASSIFIED. POWELL CLINCH UTILITY DISTRICT PRIOR TO CONSTRUCTION TO DETERMINE MATERIAL, INSTALLATION OBTAIN CERTIFICATION FROM A TESTING LAB, SIGNED AND SEALED BY AN ENGINEER, STATING THAT TESTING AND INSPECTION REQUIREMENTS. VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO SCHEMATIC DESIG POST INDICATOR VALVE GAS METER ALL EARTHWORK IS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND SUBSURFACE CONSTRUCTION. POINT OF BEGINNING (ALIGNMENT) **DESIGN DEVELOPMEN** PAVEMENT REPAIR AND TRAFFIC CONTROL SHALL MEET THE REQUIREMENTS OF THE AGENCY HAVING INVESTIGATION REPORT AND SOILS ARE CAPABLE OF SUPPORTING THE STRUCTURE AND UTILITY POLE POINT OF ENDING (ALIGNMENT) CONSTRUCTION BIDDING JURISDICTION. IMPROVEMENTS. POWER/UTILITY POLE SUBMIT SOIL SAMPLES FOR TESTING AS REQUIRED BY THE PROJECT GEOTECHNICAL ENGINEER. COORDINATE LOCATION OF GAS LINE TO AVOID CONFLICTS WITH OTHER UTILITIES. CONNECTION TO EXISTING GAS CONSTRUCTION DOCUMENT ELECTRICAL VAULT POUNDS PER SQUARE INCH SOIL FOR COMPACTED BACKFILL AND ENGINEERED FILL SHALL CONSIST OF CLEAN GRANULAR SERVICE SHALL MEET THE REQUIREMENTS OF **POWELL CLINCH UTILITY DISTRICT.** CONTACT **POWELL** POLYVINYL CHLORIDE AS-BUILT RECORD SE SOILS, CLAY SOILS, OR SHALE SOILS HAVING A PLASTICITY INDEX OF LESS THAN 35 AND A MINIMUM CLINCH UTILITY DISTRICT AND COORDINATE INSTALLATION. PAVEMENT ELECTRIC METER REVISION INFORMATION DENSITY OF 90 POUNDS PER CUBIC FOOT WHEN COMPACTED TO ONE HUNDRED PERCENT (100%) GAS METER AND SUPPLY LINE SHALL BE SIZED AND INSTALLED BY **POWELL CLINCH UTILITY DISTRICT** FOR OF ITS MAXIMUM DRY DENSITY PER STANDARD PROCTOR TEST. (ASTM D698) MATERIAL SHALL BE THE LOADS SHOWN ON THE PLUMBING DRAWINGS. PROVIDE 4" SLEEVE UNDER PAVED AREAS. ELECTRICAL BOX 1 YEAR STORM PEAK FLOW FREE OF VEGETATION, ROOTS, ROCKS LARGER THAN 2" IN ANY DIMENSION, DEBRIS AND OTHER IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ANY AND ALL PERMITS AND LICENSES REQUIRED TO 10 YEAR STORM PEAK FLOW WORK IN THE PUBLIC R.O.W. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TAP FEES AND COORDINATION DELETERIOUS MATERIALS. RESIDUAL SOIL EXCAVATED AT THE SITE MAY BE USED FOR BACKFILL IF IT **GUY WIRE** QUALIFYING LOCAL PROGRAM WITH **CLINTON UTILITY BOARD** TO ESTABLISH WATER AND SEWER SERVICE. MEETS THE SPECIFICATION REQUIREMENTS. THE MOISTURE CONTENT OF THE FILL SOILS SHOULD BE MAINTAINED WITHIN +3 AND -3 PERCENTAGE POINTS OF OPTIMUM MOISTURE CONTENT PROVIDE 10' MIN. HORIZONTAL SEPARATION BETWEEN WATER AND SEWER LINES. WHERE CROSSINGS OCCUR, LIGHT STANDARD PROVIDE 18" MIN SEPARATION BETWEEN WATER AND SEWER LINES. PROVIDE 6" MIN. CLEARANCE BETWEEN STORM DETERMINED FROM THE STANDARD PROCTOR COMPACTION TEST. REINFORCED CONCRETE PIPE SEWERS AND OTHER UTILITIES. UNLESS OTHERWISE NOTED PROVIDE 3' MINIMUM COVER FOR ALL UTILITIES. ALL FILL IN AREAS TO BE OCCUPIED BY THE BUILDING(S) AND PAVING, INCLUDING AN AREA 10 FEET TELEPHONE PEDESTAL PROVIDE #57 STONE BEDDING AND BACKFILL TO SUBGRADE FOR ALL UTILITIES LOCATED IN PAVED AREAS. OUTSIDE THE PERIMETERS THEREOF, SHALL BE CONTROLLED (ENGINEERED) FILL AND THE REFERENCE ADJUST ALL EXISTING UTILITY STRUCTURES, WHETHER SPECIFICALLY INDICATED ON THE DRAWINGS OR NOT, TO COMPACTION SHALL BE TESTED BY A LICENSED AND QUALIFIED GEOTECHNICAL ENGINEER. BOLLARD REQUIRED MATCH FINAL GRADES. ADJUSTMENTS SHALL MEET THE REQUIREMENTS OF **CLINTON UTILITY BOARD &** CONTROLLED FILL IN AREAS OF BUILDINGS SHALL BE COMPACTED IN MAXIMUM 4" LIFTS TO AT REVISION POWELL CLINCH UTILITY DISTRICT. LEAST 98% OF MAXIMUM DRY DENSITY WITHIN 3% OF OPTIMUM MOISTURE CONTENT IN SLOPE DRAIN R.O.W. RIGHT-OF-WAY ACCORDANCE WITH ASTM SPECIFICATION D-698 (STANDARD PROCTOR). FILL IN AREAS OF ASPHALT COORDINATE WITH CLINTON UTILITY BOARD & POWELL CLINCH UTILITY DISTRICT TO REMOVE OR PAVING SHALL BE COMPACTED IN MAXIMUM 6" LIFTS TO AT LEAST 98% OF MAXIMUM DRY DENSITY ABANDON EXISTING UTILITIES, WHETHER SPECIFICALLY INDICATED ON THE DRAWINGS OR NOT, THAT ARE LOCATED SLOPE MATTING SOUTH WITHIN THE PROJECT LIMITS AND NO LONGER IN USE. WITHIN 3% OF OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM SPECIFICATION D-698. SANITARY UNLESS OTHERWISE NOTED, ALL SANITARY SEWER PIPE AND FITTINGS SHALL BE PVC MEETING THE TEMPORARY STABILIZATION THE UPPER 12 INCHES OF FILL BENEATH PAVEMENTS AND UPPER 24 INCHES BENEATH FOOTINGS SCHEDULE REQUIREMENTS OF ASTM D 3034. USE SDR 35 UNLESS OTHERWISE SPECIFIED. FITTINGS SHALL MEET THE AND GRADE SLABS SHALL BE COMPACTED TO 100%. PROVIDE 95% COMPACTION IN ALL OTHER STORM DRAIN REQUIREMENTS OF ASTM D 3311 AND ASTM D 2665. PIPE SHALL HAVE AN INTEGRAL BELL END WITH GASKET SEAL PERMANENT STABILIZATION STANDARD DIMENSION RATIO WHICH HAS BEEN REINFORCED WITH A STEEL RING, BAND, OR OTHER RIGID MATERIAL THAT PERMANENTLY LOCKS AFTER STRIPPING TOPSOIL, ALL FILL AREAS SHALL BE PROOFROLLED AND MONITORED BY THE THE GASKET IN PLACE. THE JOINT SHALL MEET THE REQUIREMENTS OF ASTM D 3212. GASKETS SHALL BE OF A CONCRETE WASHOUT SPECIAL POLLUTION ABATEMENT PERMIT LOCK-IN TYPE GASKET, REIBER TYPE OR APPROVED SUBSTITUTE, MEETING THE REQUIREMENTS OF ASTM F-477. FILL OUTSIDE OF BUILDING AND PAVEMENT SHALL BE PLACED IN 8" LIFTS IN THE PRESENCE OF A SQUARE FILTER RING UNLESS OTHERWISE NOTED, MINIMUM SLOPE SHALL BE 2.0% FOR 4" LINE AND 1.0% FOR 6" LINES. REPRESENTATIVE OF THE SOIL TESTING LAB, COMPACTED TO SPECIFIED REQUIREMENTS, AND STREET . UNLESS OTHERWISE NOTED, ALL WATER LINES SHALL BE AWWA C900 PVC (CLASS 200) WITH BELL END FOR TESTED EVERY 900 SF FOR EACH LAYER OF FILL. REMEDY ANY INADEQUATELY PLACED FILL TO MEET STATION BENCHMARK PUSH-ON TYPE JOINTS. JOINTS SHALL CONSIST OF COMPACT PATTERN DUCTILE IRON FITTINGS MEETING THE PROJECT SPECIFICATIONS. SANITARY SEWER ALL LANDSCAPED AND GRASS AREAS SHALL HAVE A MINIMUM OF 5" OF CLEAN TOPSOIL. REQUIREMENTS OF AWWA C 153 WITH RUBBER GASKETS MEETING THE REQUIREMENTS OF AWWA C 111. SANITARY SEWER FORCE MAIN CONTROL POINT TOLERANCES FOR SURFACES: HARDSCAPE: ± 0.025' INSTALLATION SHALL COMPLY WITH UL 1285. STORM WATER POLLUTION PREVENTION PLAN ALL FIRE WATER LINES SHALL BE CLASS 350 DUCTILE IRON WITH PUSH-ON TYPE JOINTS. PIPE SHALL COMPLY WITH LANDSCAPE/GRASSED AREAS: ± 0.1' AWWA C151 AND CEMENT - MORTAR LINING SHALL COMPLY WITH AWWA C104. INSTALLATION SHALL COMPLY WITH ALL OFFSITE BORROW AND SPOIL SITES, IF REQUIRED, SHALL BE PROPERLY PERMITTED. SHEET INFORMATION AWWA C600. TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION FIRE LINE SIZE SHALL BE VERIFIED BY SPRINKLER CONTRACTOR. CERTIFIED CALCULATIONS SHALL BE SUBMITTED T.D.O.T. TENNESSEE DEPARTMENT OF TRANSPORTATION SHEET ISSUED: 09/25/202 DRAINAGE NOTES TO THE OWNER. SEE THE FIRE PROTECTION PLAN FOR FURTHER REQUIREMENTS. ALL FIRE PROTECTION PIPING DESIGNED BY FIELD VERIFY CRITICAL GRADES AT CONNECTION POINTS PRIOR TO CONSTRUCTION OR FABRICATION OF PRECAST STARTING FROM THE POINT OF SERVICE MUST BE INSTALLED BY A TENNESSEE REGISTERED SPRINKLER TOP OF CASTING CONTRACTOR. TOP OF CURB ELEVATION UNLESS OTHERWISE NOTED, HDPE SHALL BE HANCOR, LANE HDPE, OR ADS N-12 SMOOTH INTERIOR WALL HDPE PIPE. ALL WATER LINE MATERIALS SHALL BE LEAD FREE REVIEWED BY TOP OF PAVEMENT ELEVATION PROVIDE #57 STONE BEDDING AND BACKFILL TO PAVEMENT SUBGRADE OR 12" ABOVE PIPE IN GRASS AREAS. ALL PIPE TOP OF WALL AND FITTINGS SHALL MEET THE REQUIREMENTS OF AASHTO M252, TYPE S (4"-10") OR AASHTO M294, TYPE S (12"-48"). TYPICAL GASKET SHALL MEET THE REQUIREMENTS OF ASTM F477, INSTALLATION SHALL BE IN ACCORDANCE WITH ASTM D2321 JOINTS SHALL BE SILT TIGHT AND NON-RATED WATERTIGHT GASKETS SHALL BE COVERED WITH A REMOVABLE WRAP VERTICAL BY THE MANUFACTURER TO ENSURE THAT THE GASKET IS FREE FROM DEBRIS. UNLESS OTHERWISE NOTED, RCP SHALL BE CLASS III CONFORMING TO ASTM C-76 (LATEST REVISION): "STANDARD SPECIFICATION FOR REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE". ROOF LEADERS SHALL BE ASTM D3034 SDR 35 PVC WITH GASKET JOINTS. UNLESS OTHERWISE NOTED ON THE PLANS, WATER SURFACE 4" SHALL BE LAID AT A 2% MINIMUM SLOPE AND 6" SHALL BE LAID AT 1% MINIMUM SLOPE. & LEGEND WATER VALVE COORDINATE WITH GOVERNING AGENCY FOR ALL REQUIRED MATERIAL APPROVALS, INSPECTIONS AND TESTING. Call before you dig. W.W.F WELDED WIRE FABRIC W.W.M. SHEET NO .: WELDED WIRE MESH Tennessee call 811 or 1-800-351-1111 YARD DRAIN







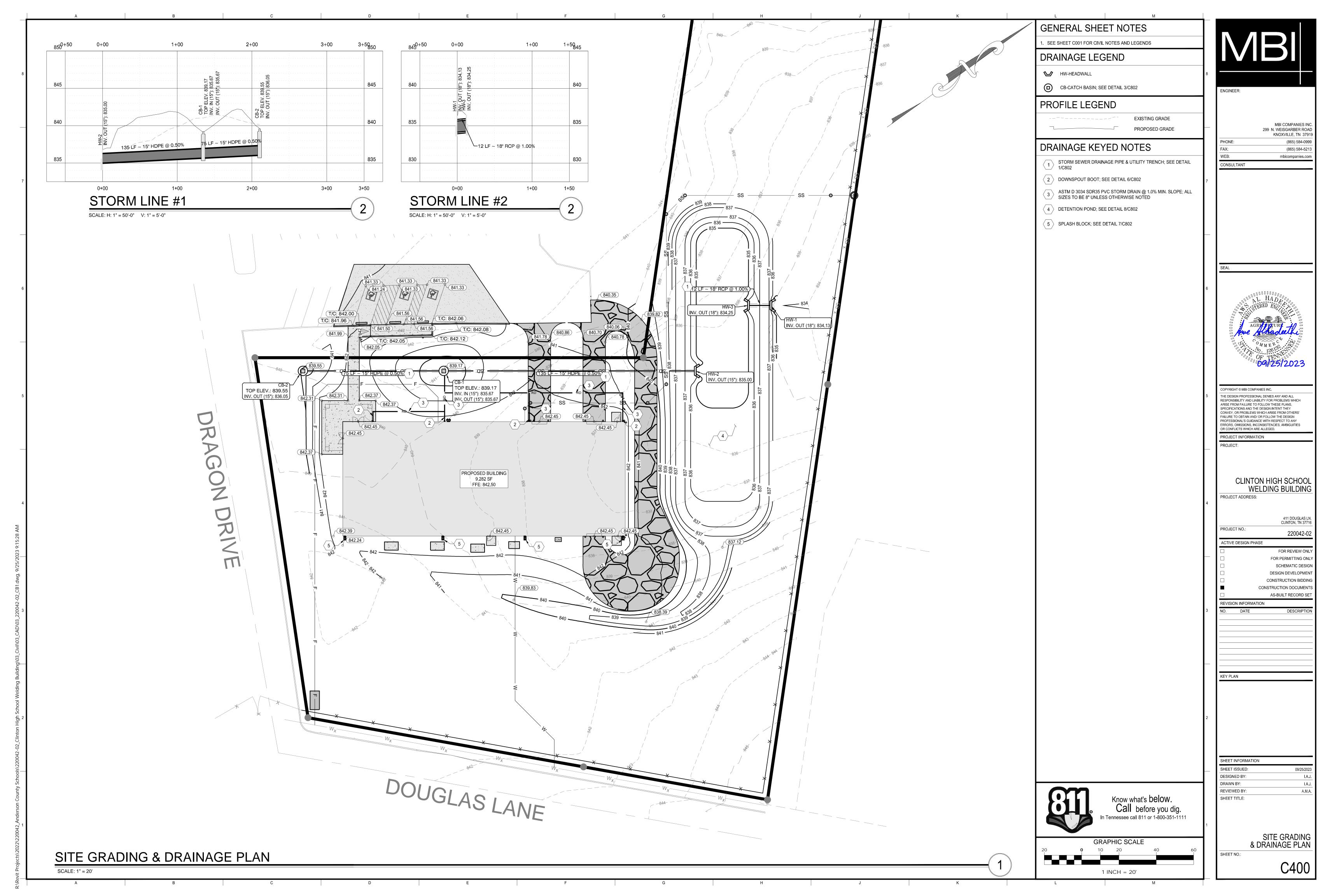


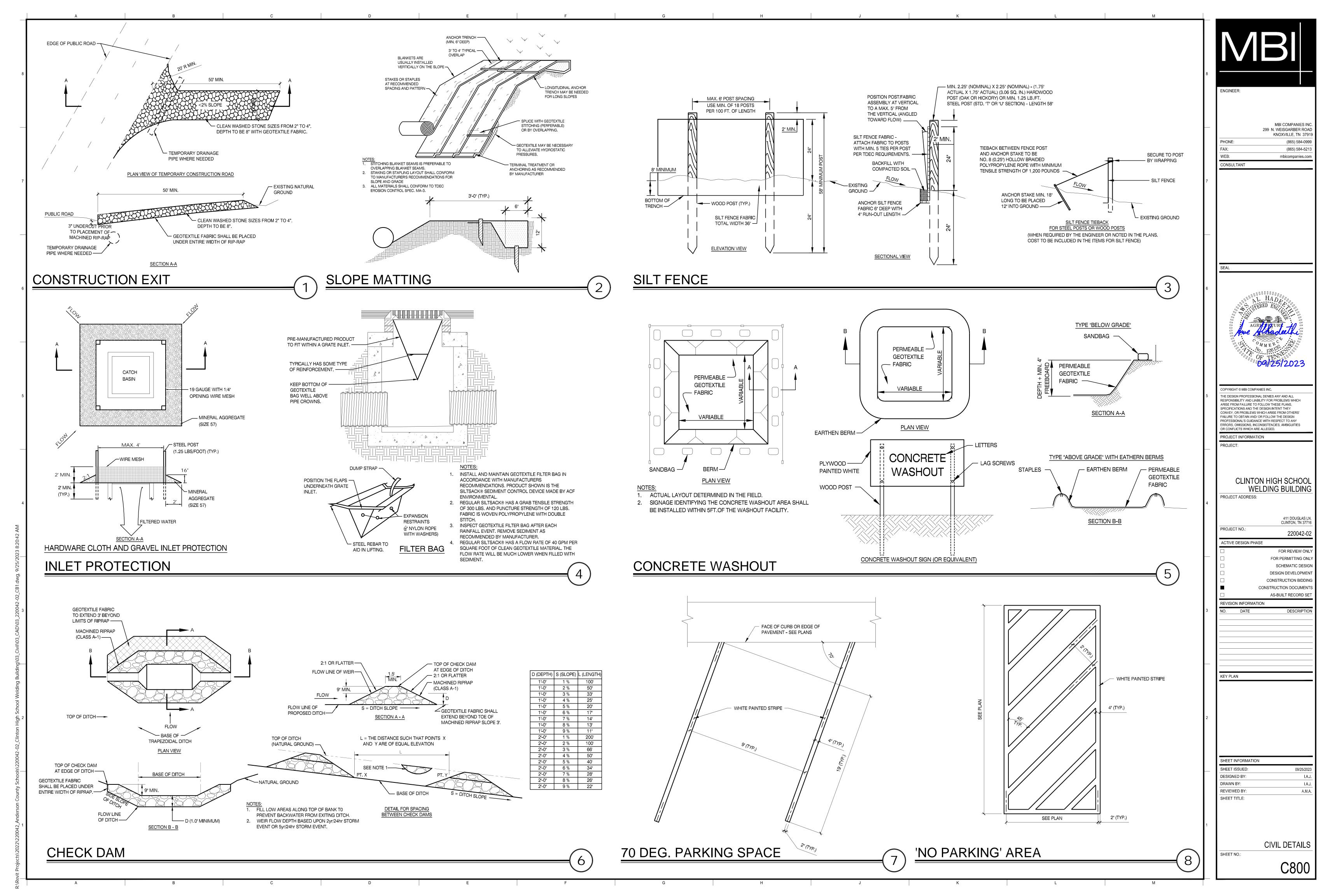


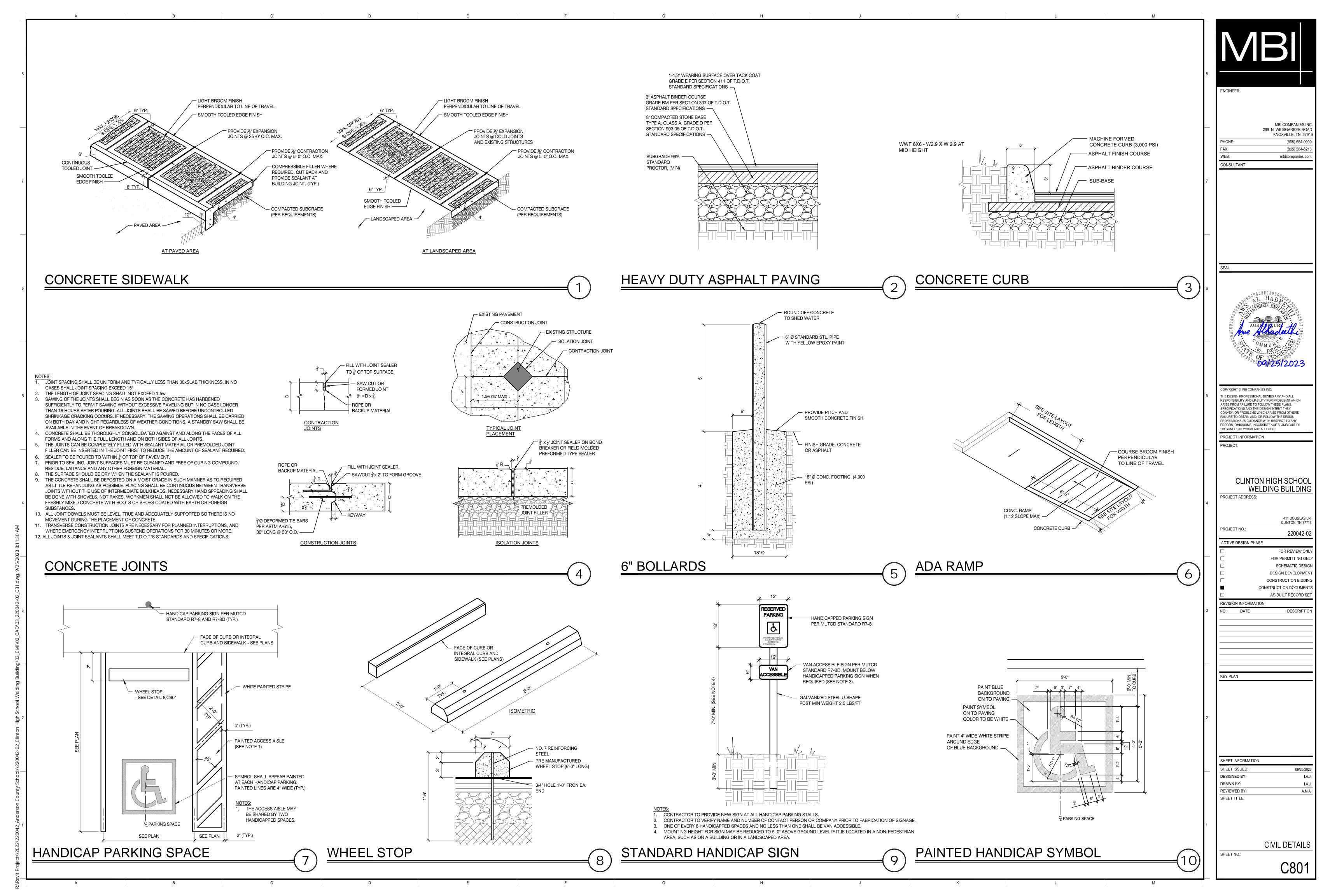
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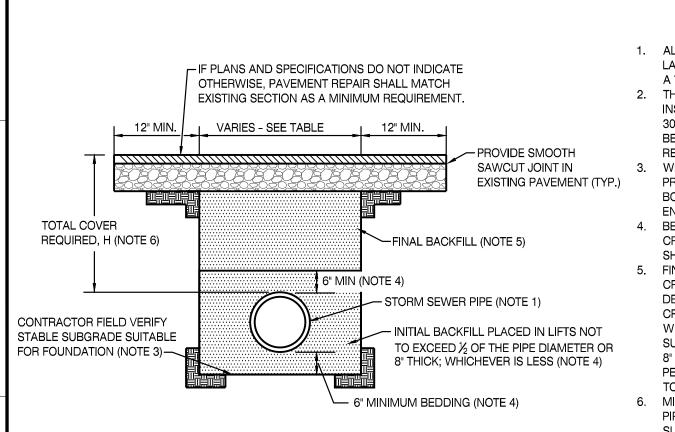
09/25/2023

SITE LAYOUT & & UTILITY PLAN









1. ALL HDPE PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, LATEST ED., AND ALL CMP SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM

2. THIS DETAIL ADDRESSES A TRENCH TYPE INSTALLATION. FOR EMBANKMENT OR OTHER INSTALLATIONS, FOR CMP SEE AASHTO SECTION 27, FOR HDPE SEE AASHTO SECTION 30. THIS DETAIL DOES NOT ADDRESS OSHA TRENCH SAFETY REQUIREMENTS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO MEET ALL HEALTH AND SAFETY ISSUES REGARDING TRENCH SAFETY. 3. WHERE THE TRENCH BOTTOM IS UNSUITABLE FOR FOUNDATION IN THE OPINION OF THE

PROJECT GEOTECHNICAL ENGINEER, THE CONTRACTOR SHALL STABILIZE THE TRENCH BOTTOM ACCORDING TO THE RECOMMENDATIONS OF THE PROJECT GEOTECHNICAL 4. BEDDING AND INITIAL BACKFILL TO 6" ABOVE THE CROWN OF THE PIPE SHALL BE #57 CRUSHED STONE. ELIMINATE VOIDS BY KNIFING UNDER AND AROUND PIPE WITH

SHOVEL OR OTHER MEANS AT THE DISCRETION OF THE CONTRACTOR. 5. FINAL BACKFILL FOR ALL PIPES LOCATED IN PAVED AREAS SHALL BE COMPACTED #57 CRUSHED STONE MEETING THE REQUIREMENTS OF THE TENNESSEE STATE DEPARTMENT OF TRANSPORTATION. FOR GRASS OR LANDSCAPED AREAS, PROVIDE #57 CRUSHED STONE INITIAL BACKFILL TO 6" ABOVE CROWN OF PIPE AND COVER GRAVEL WITH A NONWOVEN GEOTEXTILE TO PREVENT MIGRATION OF FINES. FINAL BACKFILL TO SURFACE SHALL BE SOIL FREE OF FOREIGN DEBRIS. SOIL BACKFILL SHALL BE PLACED IN 8" LOOSE LIFTS AND BE COMPACTED TO 90% STANDARD DENSITY PER AASHTO T-99 OR PER PROJECT SPECIFICATIONS, WHICHEVER IS MORE STRINGENT. TOP 6" SHALL BE TOPSOIL FROM SITE STRIPPING OPERATIONS LOOSELY PLACED.

MINIMUM COVER, H, IS 24" UP TO 48" DIAMETER PIPE. H IS 36" FOR 54" TO 60" DIAMETER PIPE. H IS MEASURED FROM TOP OF PIPE TO TOP OF FLEXIBLE PAVEMENT OR GROUND SURFACE IN GRASS OR LANDSCAPE AREAS WHERE APPLICABLE. FOR RCP AND CONCRETE PIPE, H IS 12" MINIMUM.

* SYMBOL SHALL BE PERMANENTLY CAST INTO GRATE

WATERWAYS

12" MIN.	VARIES - SEE TABLE	12" MIN.
		PROVIDE SMOO SAWCUT JOINT EXISTING PAVEMENT (TYP
IF PLANS DO NOT INDICATE OTHERWISE PROVIDE 36" MIN. COVER.		門市 FINAL BACKFILL (NOTE 5)
	6" MIN (NC	APPROVED WARNING TAPE 24" ABOVE PIPE (PVC ONLY) ITE 4)
		PRIVATE SITE WATER OR SANITARY SEWER LINE
CONTRACTOR FIELD VERIFY STABLE SUBGRADE SUITABLE FOR FOUNDATION (NOTE 3)		INITIAL BACKFILL PLACED IN LIFTS NOT TO EXCEED 8" THICK (NOTE 4).
NO. 12 COATED COPF TRACING WIRE (PVC C		6" MINIMUM BEDDING (NOTE 4)

ALL PRIVATE SITE UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE PLUMBING CODE, LOCAL UTILITY REQUIREMENTS, AND THE LOCAL AGENCY HAVING JURISDICTION OVER BUILDING CONSTRUCTION.

2. THIS DETAIL ADDRESSES A TRENCH TYPE INSTALLATION, THIS DETAIL DOES NOT ADDRESS OSHA TRENCH SAFETY REQUIREMENTS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO MEET ALL HEALTH AND SAFETY ISSUES REGARDING TRENCH SAFETY.

3. WHERE THE TRENCH BOTTOM IS UNSUITABLE FOR FOUNDATION IN THE OPINION OF THE PROJECT GEOTECHNICAL ENGINEER, THE CONTRACTOR SHALL STABILIZE THE TRENCH BOTTOM ACCORDING TO THE RECOMMENDATIONS OF THE PROJECT GEOTECHNICAL

4. BEDDING AND INITIAL BACKFILL TO 6" ABOVE THE CROWN OF THE PIPE SHALL BE #57 CRUSHED STONE. ELIMINATE VOIDS BY KNIFING UNDER AND AROUND PIPE WITH SHOVEL OR OTHER MEANS AT THE DISCRETION OF THE CONTRACTOR.

5. FINAL BACKFILL FOR ALL PIPES LOCATED IN PAVED AREAS SHALL BE COMPACTED #57 CRUSHED STONE MEETING THE REQUIREMENTS OF THE STATE'S DEPARTMENT OF TRANSPORTATION 6. FOR GRASS OR LANDSCAPED AREAS, PROVIDE #57 CRUSHED STONE INITIAL BACKFILL TO 6" ABOVE CROWN OF PIPE AND COVER GRAVEL WITH A NONWOVEN GEOTEXTILE TO

7. IF PLANS AND SPECIFICATIONS DO NOT INDICATE OTHERWISE, PAVEMENT REPAIR SHALL

MATCH EXISTING SECTION AS A MINIMUM REQUIREMENT.

PREVENT MIGRATION OF FINES. FINAL BACKFILL TO SURFACE SHALL BE SOIL FREE OF FOREIGN DEBRIS. SOIL BACKFILL SHALL BE PLACED IN 8" LOOSE LIFTS AND BE COMPACTED TO 90% STANDARD DENSITY PER AASHTO T-99 OR PER PROJECT SPECIFICATIONS, WHICHEVER IS MORE STRINGENT. TOP 6" SHALL BE TOPSOIL FROM SITE STRIPPING OPERATIONS LOOSELY PLACED.

MINIMUM TRENC	H WIDTHS
PIPE DIA. (IN.)	MIN. WIDTH (IN.)
< 4	18
4	21
6	23
8	26

STORM SEWER TRENCH



ALUMINIZED CMP, HDPE AND PVC

PIPE DIA (IN)

10

12

18

24

42

48

RCP AND CONCRETE

WIDTH (IN)

PIPE DIA (IN)

MINIMUM

WIDTH (IN)

21

23

28

30

39

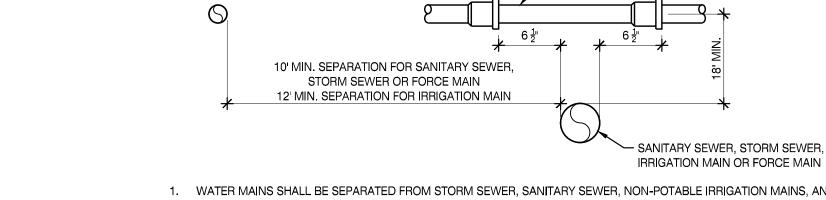
48

56

64

72

80



PIPE SEPARATION

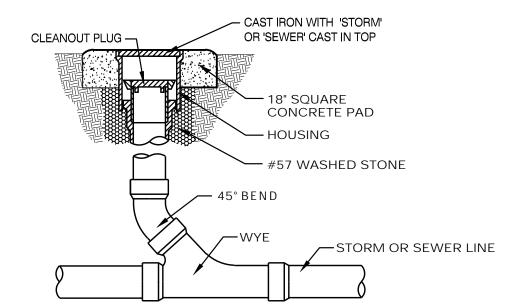
1. WATER MAINS SHALL BE SEPARATED FROM STORM SEWER, SANITARY SEWER, NON-POTABLE IRRIGATION MAINS, AND FORCE MAINS BY A MINIMUM CLEAR VERTICAL DISTANCE OF 18" MEASURED BETWEEN THE BOTTOM OF THE UPPER PIPE AND THE TOP OF THE LOWER PIPE. THE 18" MINIMUM VERTICAL SEPARATION DISTANCE DOES NOT APPLY TO SEPARATION OF SEWER LATERALS AND POTABLE WATER MAIN PIPELINE INSTALLATIONS. ALSO, WATER MAINS SHALL BE SEPARATED FROM STORM SEWER, SANITARY SEWER AND FORCE MAINS BY 10' AND FROM IRRIGATION MAINS BY 12' MEASURED HORIZONTALLY BETWEEN OUTSIDE OF PIPES.

2. ALL CROSSINGS WITH VERTICAL CLEARANCE LESS THAN 18" SHALL REQUIRE SUBMISSION AND APPROVAL OF A DEVIATION. IF A DEVIATION IS SUBMITTED, THE FOLLOWING MINIMUM STIPULATIONS APPLY: THE CROSSING SHALL BE MADE USING THICKNESS CLASS 200 AWWA C-900 DR14, PVC (CLASS 235 AWWA C-905, DR 18, PVC FOR PIPES GREATER THAN 12" IN DIAMETER) OR DUCTILE IRON, PRESSURE CLASS 250 PIPE FOR A HORIZONTAL DISTANCE OF 10' ON EACH SIDE OF THE CROSSING. WATER MAIN CONCRETE ENCASEMENT SHALL ONLY BE MADE AFTER WRITTEN APPROVAL OF THE WATER DIRECTOR OR HIS DESIGNEE.

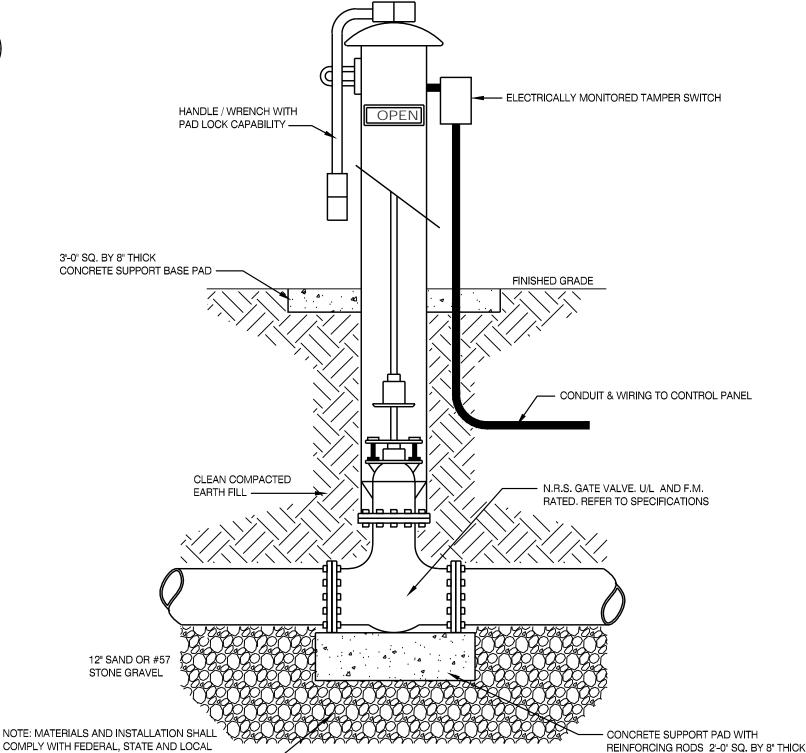
3. 18" CLEAR DISTANCE SHALL NOT BE REDUCED IN CASES WHERE WATER CROSSES UNDER SEWER LINE. 4. WATER MAINS, SANITARY SEWER, STORM SEWER, AND NON-POTABLE IRRIGATION MAINS SHALL BE IN SEPARATE

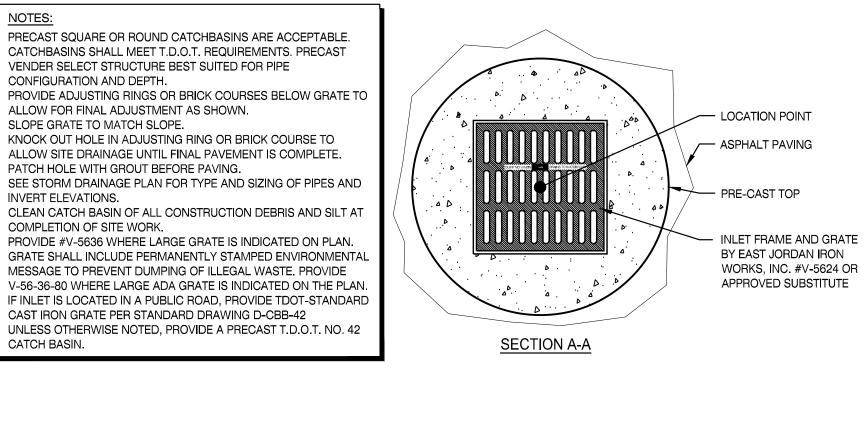
5. WATER MAINS CROSSING ANY TYPE OF SANITARY SEWER, INCLUDING FORCE MAIN, OR STORM SEWER SHALL HAVE THE ONE FULL LENGTH OF WATER MAIN CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THAT THE WATER JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE, ALTERNATIVELY, AT SUCH CROSSINGS, THE PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST 3' FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS, STORM SEWERS, STORMWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER.

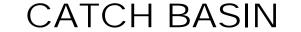
10" STONE SHALL BE UTILIZED FOR SEPARATION BETWEEN GRAVITY SANITARY SEWER LINES AND STORMWATER LINES.



STORM/SEWER CLEANOUT







DOWNSPOUT BOOT

TYPICAL PIPE

SLOPE TO INVERT -

- AS REQUIRED -

INLET FRAME AND GRATE

WORKS, INC. #V-5624 OR

APPROVED SUBSTITUTE

(SEE DRAINAGE PLAN)

BRICK OR PRECAST

ADJUSTING RINGS

PRECAST TOP -

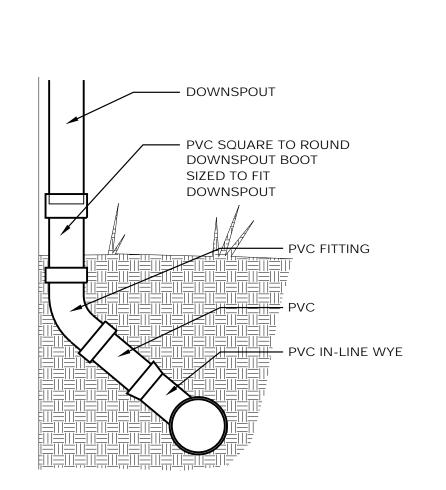
GROUT SOLID

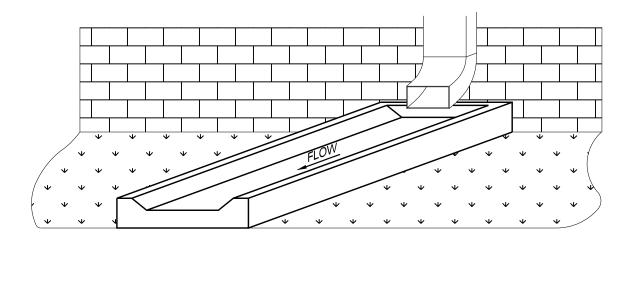
AROUND PIPE -

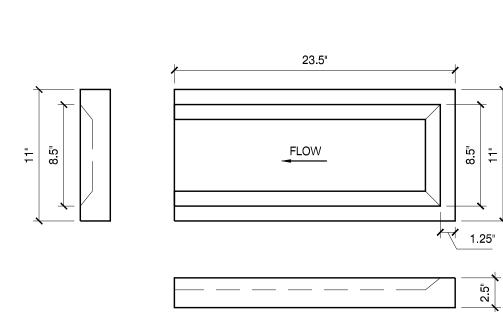
INV. (SEE

DRAINAGE PLAN)

BY EAST JORDAN IRON



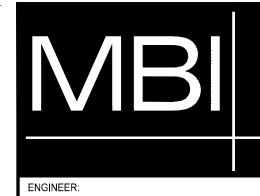




DRAINAGE SPLASH BLOCK







ONSULTANT

MBI COMPANIES INC 299 N. WEISGARBER ROAD KNOXVILLE, TN 37919 (865) 584-0999 (865) 584-521 mbicompanies.co

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OR CONFLICTS WHICH ARE ALLEGED PROJECT INFORMATION

PROJECT ADDRESS

ACTIVE DESIGN PHASE

CLINTON HIGH SCHOOL WELDING BUILDING

220042-02

FOR REVIEW ONL FOR PERMITTING ON SCHEMATIC DESIG **DESIGN DEVELOPMEN**

CONSTRUCTION DOCUMENT AS-BUILT RECORD SE REVISION INFORMATION

KEY PLAN

SHEET INFORMATION SHEET ISSUED: 09/25/202 **DESIGNED BY:** REVIEWED BY:

CIVIL DETAILS

C802

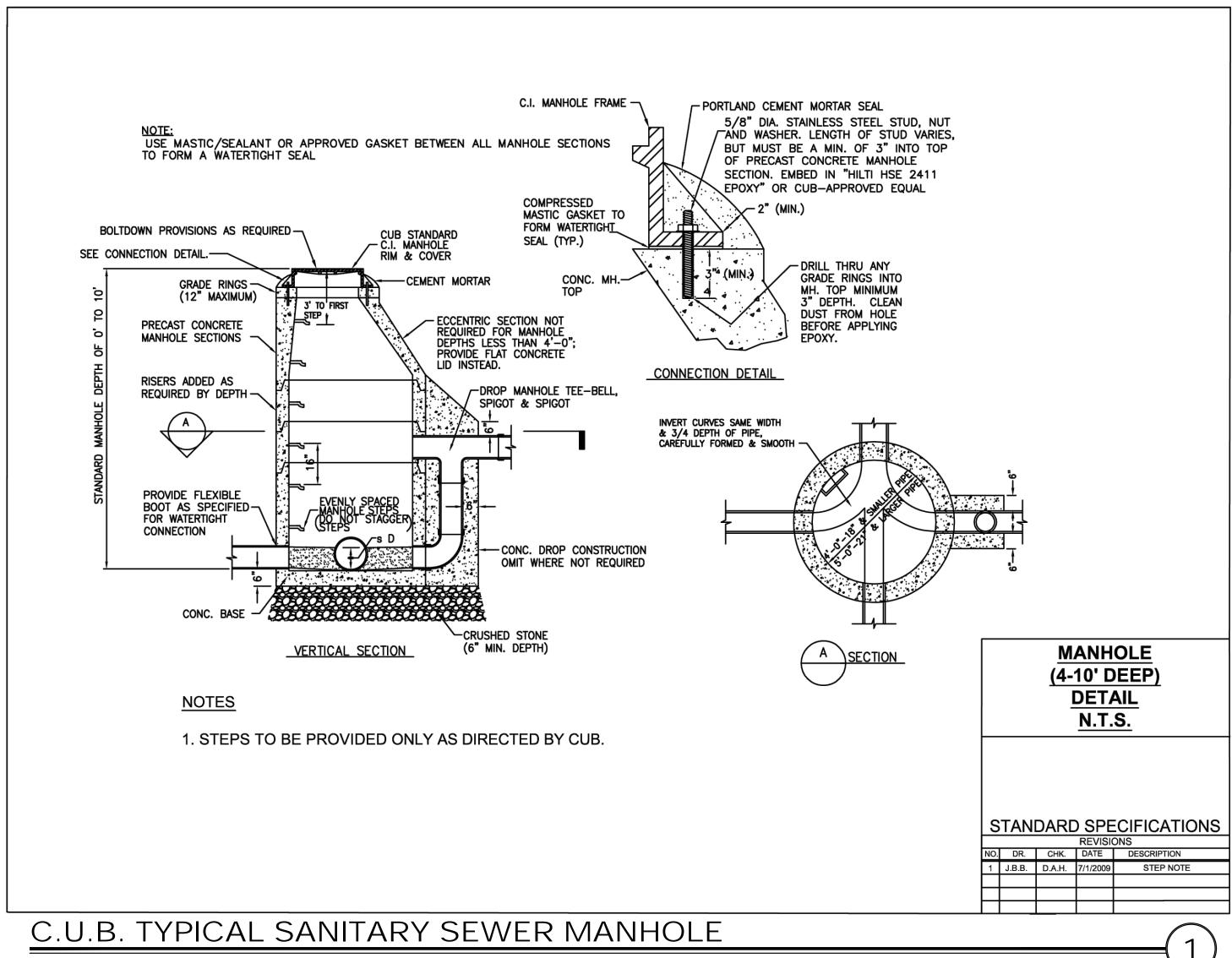
- ASPHALT PAVING

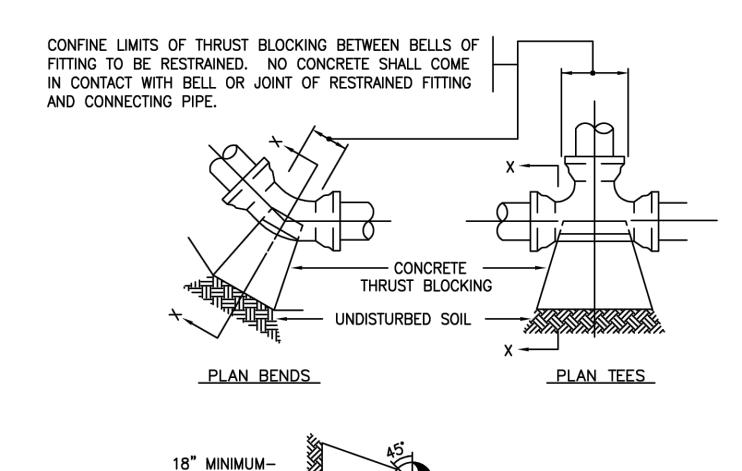
TYPICAL PIPE

18" RCP OUTLET PIPE

TOP OF BERM ELEV. 937.00 COMPACT SOIL FILL IN BERM TO A MIN. OF 95% MAXIMUM DENSITY IN ACCORDANCE - PRECAST HEADWALL WITH ASTM D 1557 OR PER PROJECT SPECIFICATIONS WHICHEVER IS MORE STRINGENT

DETENTION POND





10" & SMALLER UNDISTURBED SOIL SECTION X-X

BENDS & TEES

WRAP ALL FITTINGS TO BE RESTRAINED WITH PLASTIC BEFORE POURING CONCRETE

MINIMUM CONCRETE THRUST BLOCK SIZE IN CONTACT WITH THE BEARING SOIL IN SQUARE FEET.

PIPE		BEND)S		STD.
SIZE	11-1/4*	22-1/2*	45°	90°	TEE
4	1.0	1.0	1.5	2.5	2.0
6	1.5	2.0	3.0	5.5	4.0
8	1.5	2.5	5.0	10.0	7.0
10	2.0	4.0	7.5	14.5	10.0
12	3.0	6.0	11.5	21.5	14.5
14	4.0	7.5	15.0	28.0	19.5
16	5.0	10.0	20.0	35.0	25.5
18	6.5	12.5	24.56	35.0*	32.0
20	8.5	16.5	32.6	35.0*	35.0*
24	10.0	20.0	35.0*	35.0*	35.0*
30	18.0	34.5	35.0*	35.0*	35.0*
36	25.0	35.0*	35.0*	35.0*	35.0*
42	32.5	35.0*	35.0*	35.0*	35.0*

BLOCKING SCHEDULE BASED ON 200 PSI WATER PRESSURE, 2,000 PSF SOIL BEARING PRESSURE & 1.25 SAFETY FACTOR.

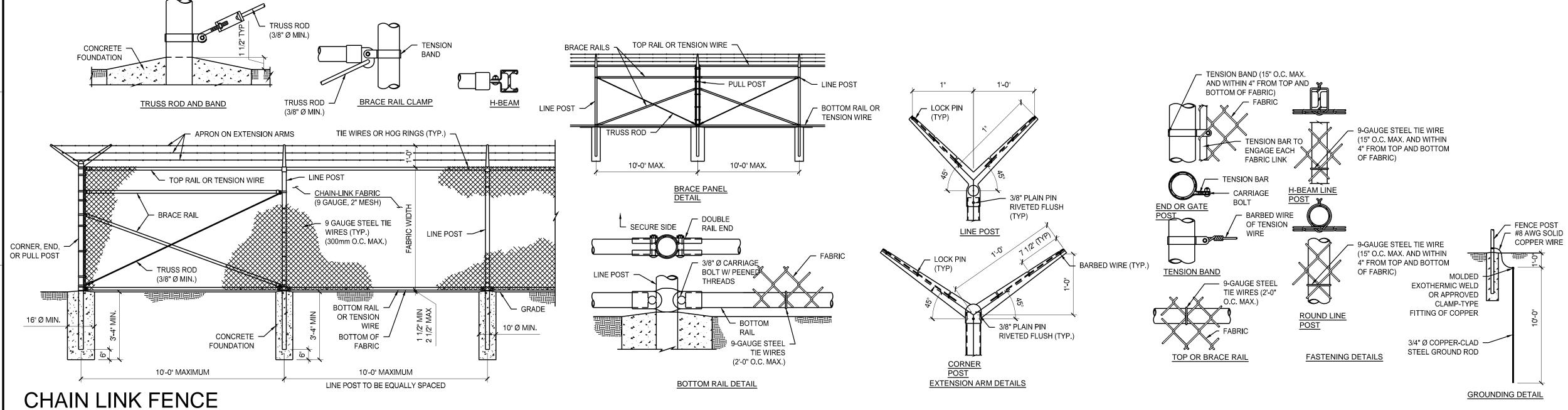
* INDICATES FITTINGS REQUIRING RESTRAINED JOINTS IN ADDITION TO CONC. THRUST BLOCKING.

> THRUST BLOCKING **DETAIL**

STANDARD SPECIFICATIONS

NO. DR. CHK. DATE DESCRIPTION 1 J.B.B. D.A.H. 7/1/2009 ADDED NOTE

C.U.B. TYPICAL THRUST BLOCK



	STEEL PC	OST SCHEDULE	
	MINIMUM OUTSIDE DIMENSIONS (NOMINAL)		
USE AND SECTION	FABRIC WIDTH 72" OR LESS	FABRIC WIDTH 84" TO 96"	FABRIC WIDTH 108" AND OVER
CORNER END & PULL POSTS TUBULAR - ROUND TUBULAR - SQUARE C-SECTION (ROLL-FORMED)	2.375" O.D. 2.00" SQ. 3.50" X 3.50"	2.875" O.D. 2.50" SQ. 3.50" X 3.50"	4.00" O.D. 3.00" SQ.
LINE POSTS TUBULAR - ROUND H-SECTION C-SECTION	1.90" O.D. 2.25" X 1.70" 1.875" X 1.625"	2.375" O.D. 2.25" X 1.70" 2.25" X 1.70"	2.875" O.D. 2.25" X 1.70"
HGPLL-FORMED) BOTTOM & BRACE RAILS FUBULAR - ROUND FUBULAR - SQUARE H-SECTION C-SECTION ROLL-FORMED)	1.66" O.D. 1.50" SQ. 1.625" X 1.50" 1.625" X 1.25"		1

- DETAILS SHOWN ARE TO CLARIFY REQUIREMENTS AND ARE NOT INTENDED TO LIMIT OTHER TYPES OF FENCE SECTIONS AND METHODS OF INSTALLATION THAT COMPLY WITH THE SPECIFICATIONS.
- WIRE TIES, RAILS, POSTS, AND BRACES SHALL BE CONSTRUCTED ON THE SECURE SIDE OF THE FENCE ALIGNMENT. CHAIN-LINK FABRIC SHALL BE PLACED ON THE SIDE OPPOSITE THE SECURE AREA. C-SECTION POSTS SHALL BE INSTALLED SO THAT THE VOID INSIDE THE POST IS COMPLETELY FILLED WITH
- CONCRETE UP TO THE TOP OF THE FOUNDATION. BOTTOM RAIL SHALL BE ATTACHED TO DOUBLE RAIL ENDS USING 3/8" CARRIAGE BOLTS AS SHOWN.
- PROVIDE BRACE PANEL WHENEVER STRAIGHT RUNS EXCEED 500 FEET.

LEGEND: TYPE FE5 - CHAIN-LINK FENCE WITHOUT BARBED-WIRE APRON

TYPE FE6 - CHAIN-LINK FENCE W/BARBED-WIRE ON SINGLE OUTRIGGER TYPE FE7 - CHAIN-LINK FENCE W/BARBED-WIRE ON DOUBLE OUTRIGGER TYPE FE8 - CHAIN-LINK FENCE W/BARBED-WIRE AND BARBED-TAPE ON DOUBLE OUTRIGGER TR - FENCE WITH TOP RAIL AND TENSION WIRE AT BOTTOM TBR - FENCE WITH TOP AND BOTTOM RAILS

TWB - TENSION WIRE TOP AND BOTTOM
TWBR - FENCE WITH TOP TENSION WIRE AND BOTTOM RAIL

FINAL NUMBER IS FABRIC WIDTH IN INCHES.

EXAMPLES: FE6-TR-72 - CHAIN-LINK SECURITY FENCE WITH BARBED-WIRE ON SINGLE OUTRIGGER, TOP RAIL, AND 72 INCH FE5-TWB-84 - CHAIN-LINK SECURITY FENCE WITH NO APRON, TOP AND BOTTOM TENSION WIRE, AND 84 INCH

SHEET ISSUED:	09/25/2023
DESIGNED BY:	I.A.J.
DRAWN BY:	I.A.J.
REVIEWED BY:	A.M.A.
SHEET TITLE:	

CIVIL DETAILS

OR CONFLICTS WHICH ARE ALLEGED. PROJECT INFORMATION

ENGINEER:

CONSULTANT

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CLINTON HIGH SCHOOL

WELDING BUILDING

411 DOUGLAS LN CLINTON, TN 3771

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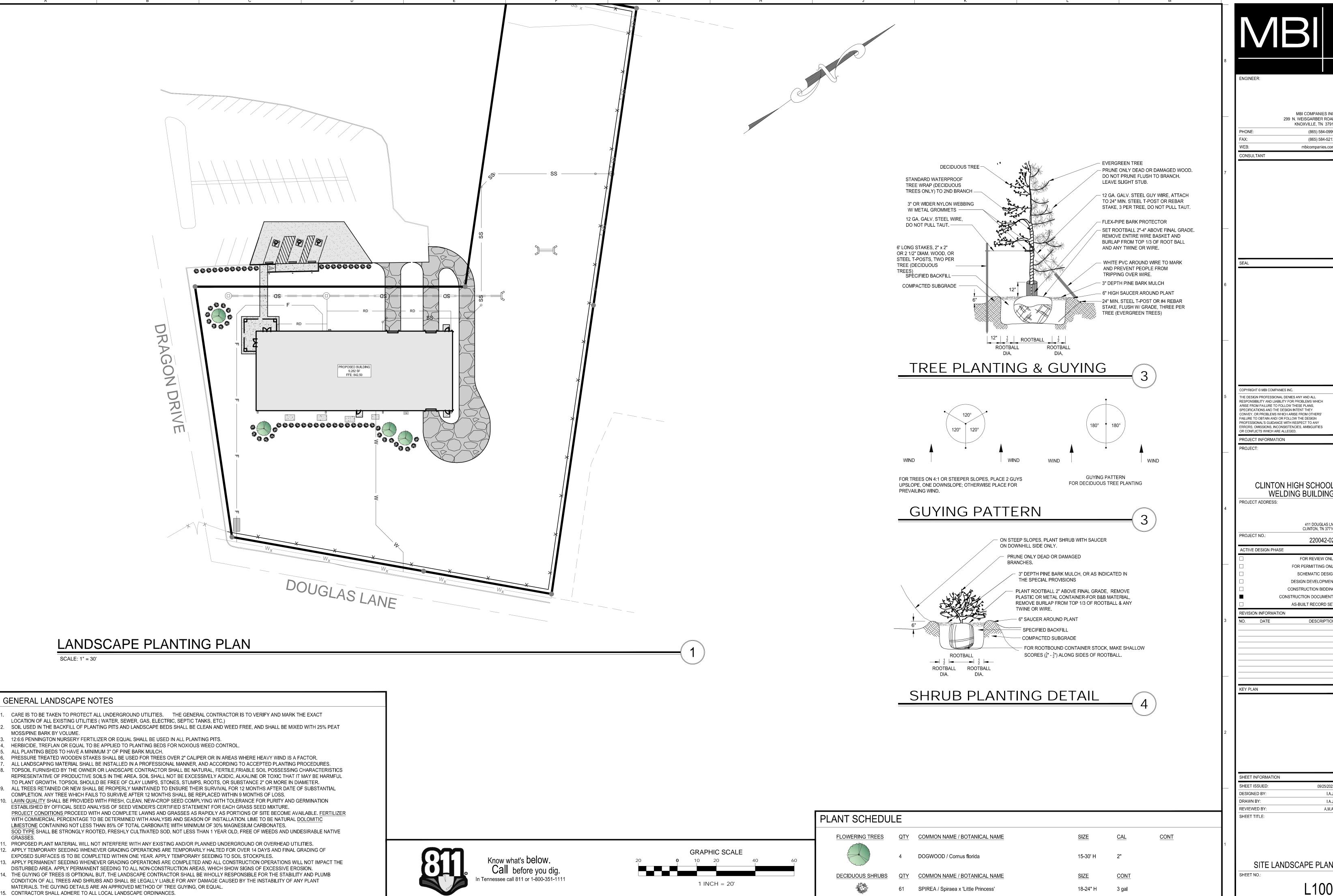
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SHEET INFORMATION SHEET ISSUED: 09/25/2023 DESIGNED BY: DRAWN BY:

SITE LANDSCAPE PLAN

WELDING BUILDING

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