



## GENERAL NOTES

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

• THE FOLLOWING DOCUMENTS ARE INCORPORATED BY REFERENCE AS PART OF THIS PLAN:

- "ALTANSPS LAND TITLE SURVEY" PREPARED BY CONTROL POINT ASSOCIATES, INC. REVISION 4 DATED 04/16/19
- "APPROVAL MOT REQUIRED PLAN OF LAND - HOSPITAL DRIVE" PREPARED BY CONTROL POINT ASSOCIATES, INC. DATED: 11/13/19.

PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR MUST VERIFY THAT HESHE HAS THE LATEST EDITION OF THE DOCUMENTS REFERENCED ABOVE. THIS IS CONTRACTORS RESPONSIBILITY.

ALL ACCESSIBLE (AKA ADA) PARKING SPACES MUST BE CONSTRUCTED TO MEET, AT A MINIMUM, THE MORE STRINGENT OF THE REQUIREMENTS OF THE "AMERICANS WITH DISABILITIES ACT (ADA) 2010 AND 42 U.S.C. § 12101 et seq. AND 42 U.S.C. § 4151 et seq.) OR THE REQUIREMENTS OF THE JURISDICTION WHERE THE PROJECT IS TO BE CONSTRUCTED, AND ANY AND ALL AMENDMENTS TO BOTH WHICH ARE IN EFFECT WHEN THESE PLANS ARE COMPLETED.

PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR IS 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 MUST HAVE COPIES OF ALL PERMITS AND APPROVALS ON SITE AT ALL TIMES.

THE OWNER/CONTRACTOR MUST BE FAMILIAR WITH AND RESPONSIBLE FOR THE PROCUREMENT OF ANY AND ALL CERTIFICATIONS REQUIRED FOR THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.

ALL WORK MUST 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 SET FORTH HEREIN ARE A PART OF THE REQUIRED CONSTRUCTION DOCUMENTS AND, IN CASE OF CONFLICT, DISCREPANCY OR AMBIGUITY, THE MORE STRINGENT REQUIREMENTS AND/OR RECOMMENDATIONS CONTAINED IN THE PLANS AND THE GEOTECHNICAL REPORT AND RECOMMENDATIONS SHALL TAKE PRECEDENCE UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS. THE CONTRACTOR MUST 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 BOHLER ENGINEERING BY THE OWNER AND OTHERS PRIOR TO THE TIME OF PLAN PREPARATION. CONTRACTOR MUST FIELD VERIFY EXISTING CONDITIONS AND NOTIFY BOHLER ENGINEERING, IN WRITING, IMMEDIATELY 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 MUST BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR MUST NOTIFY ENGINEER, IN WRITING, IF ANY CONFLICTS, DISCREPANCIES, OR AMBIGUITIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION. NO EXTRA COMPENSATION WILL 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.

CONTRACTOR MUST REFER TO THE ARCHITECTURAL/BUILDING PLANS OF RECORD FOR EXACT LOCATIONS AND DIMENSIONS OF ENTRY/EXIT POINTS, ELEVATIONS, PRECISE BUILDING DIMENSIONS, AND EXACT BUILDING UTILITY LOCATIONS.

PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR MUST 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 MUST IMMEDIATELY NOTIFY OWNER, ARCHITECT AND SITE ENGINEER, IN WRITING, OF ANY CONFLICTS, DISCREPANCIES OR AMBIGUITIES WHICH EXIST.

DEBRIS MUST NOT BE BURIED ON THE SUBJECT SITE AND ALL UNSUITABLE EXCAVATED MATERIAL AND DEBRIS (SOLID WASTE) MUST BE DISPOSED OF IN ACCORDANCE WITH THE REQUIREMENTS OF ANY AND ALL GOVERNMENTAL AUTHORITIES WHICH HAVE JURISDICTION OVER THIS PROJECT OR OVER CONTRACTOR.

THE CONTRACTOR IS 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.

THE CONTRACTOR IS TO 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 IS 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.

THE CONTRACTOR IS 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 IS RESPONSIBLE FOR AND MUST REPLACE ALL SIGNAL, INTERCONNECTION CABLE, WIRING CONDUITS, AND ANY UNDERGROUND ACCESSORY EQUIPMENT DAMAGED DURING CONSTRUCTION AND MUST BEAR ALL COSTS ASSOCIATED WITH SAME. THE REPAIR OF ANY SUCH NEW OR EXISTING CONSTRUCTION OR PROPERTY MUST 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 MUST 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.

ALL CONCRETE MUST BE AIR ENTRAINED AND HAVE THE MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS UNLESS OTHERWISE NOTED ON THE PLANS, DETAILS AND/OR GEOTECHNICAL REPORT.

THE ENGINEER IS NOT 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 IS RESPONSIBLE FOR DETERMINING THE METHODS/MEANS FOR COMPLETION OF THE WORK PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

THE ENGINEER OF RECORD IS NOT 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 IS NOT RESPONSIBLE TO IDENTIFY OR REPORT ANY JOB SITE SAFETY ISSUES, AT ANY TIME.

ALL CONTRACTORS MUST COMPLY WITH THE SPECIFIED STATUTORY WORKERS COMPENSATION INSURANCE, EMPLOYER'S LIABILITY INSURANCE AND LIMITS OF COMMERCIAL GENERAL LIABILITY INSURANCE (CGL). ALL CONTRACTORS MUST HAVE THEIR CGL POLICIES ENDORSED TO NAME BOHLER ENGINEERING, AND ITS PAST, PRESENT AND FUTURE OWNERS, OFFICERS, MEMBERS, PRINCIPALS, MANAGERS, AGENTS, SERVANTS, EMPLOYEES, AFFILIATES, SUBSIDIARIES, AND RELATED ENTITIES, AND ITS SUBCONTRACTORS AND SUBCONSULTANTS AS ADDITIONAL NAMED INSURED AND TO PROVIDE CONTRACTOR LIABILITY COVERAGE SUFFICIENT TO INSURE THIS HOLD HARMLESS AND INDEMNIFY OBLIGATIONS ASSUMED BY THE CONTRACTORS. ALL CONTRACTORS MUST FURNISH BOHLER ENGINEERING WITH CERTIFICATIONS OF INSURANCE AS EVIDENCE OF THE REQUIRED INSURANCE PRIOR TO COMMENCING WORK AND UPON RENEWAL OF EACH POLICY DURING THE ENTIRE PERIOD OF CONSTRUCTION AND FOR ONE YEAR AFTER THE COMPLETION OF CONSTRUCTION. IN ADDITION, ALL CONTRACTORS WILL, TO THE FULLEST EXTENT PERMITTED UNDER THE LAW, INDEMNIFY, DEFEND AND HOLD HARMLESS BOHLER ENGINEERING AND ITS PAST, PRESENT AND FUTURE OWNERS, OFFICERS, DIRECTORS, PARTNERS, SHAREHOLDERS, MEMBERS, PRINCIPALS, COMMISSIONERS, AGENTS, SERVANTS, EMPLOYEES, AFFILIATES, SUBSIDIARIES, AND RELATED ENTITIES, AND ITS SUBCONTRACTORS AND SUBCONSULTANTS FROM AND AGAINST ANY DAMAGES, INJURIES, CLAIMS, ACTIONS, PENALTIES, EXPENSES, PUNITIVE DAMAGES, TORT DAMAGES, STATUTORY CLAIMS, STATUTORY CAUSES OF ACTION, LOSSES, COSTS, CAUSES OF ACTION, LIABILITIES OR COSTS, INCLUDING, BUT NOT LIMITED TO, REASONABLE ATTORNEYS FEES AND DEFENSE COSTS, ARISING OUT OF OR IN ANY WAY CONNECTED WITH OR TO THE PROJECT, INCLUDING ALL CLAIMS BY EMPLOYEES OF THE CONTRACTORS, ALL CLAIMS BY THIRD PARTIES AND ALL CLAIMS RELATED TO THE PROJECT. CONTRACTOR MUST NOTIFY ENGINEER, IN WRITING, AT LEAST THIRTY (30) DAYS PRIOR TO ANY TERMINATION, SUSPENSION OR CHANGE OF HIS INSURANCE HEREUNDER.

BOHLER ENGINEERING WILL REVIEW OR TAKE OTHER APPROPRIATE ACTION ON THE CONTRACTOR SUBMITTALS, SUCH AS SHOP DRAWINGS, PRODUCT DATA, SAMPLES, AND OTHER DATA, WHICH THE CONTRACTOR IS REQUIRED TO SUBMIT, BUT ONLY 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 ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND BOHLER HAS NO RESPONSIBILITY OR LIABILITY FOR SAME. HOWEVER, BOHLER ENGINEERING SHALL BE CONSIDERED TO HAVE CONDUCTED WITH REASONABLE CARE AND DILIGENCE, WHILE ALLOWING SUFFICIENT TIME TO PERMIT ADEQUATE REVIEW. REVIEW OF A SPECIFIC ITEM MUST NOT INDICATE THAT BOHLER ENGINEERING HAS REVIEWED THE ENTIRE ASSEMBLY OF WHICH THE ITEM IS A COMPONENT. BOHLER ENGINEERING WILL NOT BE RESPONSIBLE FOR ANY DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS NOT PROMPTLY AND IMMEDIATELY BROUGHT TO ITS ATTENTION, IN WRITING, BY THE CONTRACTOR. BOHLER ENGINEERING WILL NOT BE REQUIRED TO REVIEW PARTIAL SUBMISSIONS OR THOSE FOR WHICH SUBMISSIONS OF CORRELATED ITEMS HAVE NOT BEEN RECEIVED.

NEITHER THE PROFESSIONAL ACTIVITIES OF BOHLER ENGINEERING, NOR THE PRESENCE OF BOHLER ENGINEERING AND/OR ITS PAST, PRESENT AND FUTURE OWNERS, OFFICERS, DIRECTORS, PARTNERS, SHAREHOLDERS, MEMBERS, PRINCIPALS, COMMISSIONERS, AGENTS, SERVANTS, EMPLOYEES, AFFILIATES, SUBSIDIARIES, AND RELATED ENTITIES, AND ITS SUBCONTRACTORS AND SUBCONSULTANTS AT A CONSTRUCTION PROJECT SITE, SHALL RELIEVE THE GENERAL CONTRACTOR OF ITS OBLIGATIONS, DUTIES AND RESPONSIBILITIES INCLUDING, BUT NOT LIMITED TO, CONSTRUCTION MEANS, METHODS, SEQUENCE, TECHNIQUES OR PROCEDURES NECESSARY FOR PERFORMING, OVERSEEING, SUPERINTENDING AND COORDINATING THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND COMPLIANCE WITH ANY HEALTH OR SAFETY PRECAUTIONS REQUIRED BY ANY REGULATORY AGENCIES WITH JURISDICTION OVER THE PROJECT AND/OR PROPERTY. BOHLER ENGINEERING AND ITS PERSONNEL HAVE NO AUTHORITY TO EXERCISE ANY CONTROL OVER ANY CONSTRUCTION CONTRACTOR OR ITS EMPLOYEES IN CONNECTION WITH THEIR WORK OR ANY HEALTH OR SAFETY PROGRAMS OR PROCEDURES. THE GENERAL CONTRACTOR IS SOLELY RESPONSIBLE FOR JOB SITE SAFETY. BOHLER ENGINEERING SHALL BE INDEMNIFIED BY THE GENERAL CONTRACTOR AND MUST BE NAMED AN ADDITIONAL INSURED UNDER THE GENERAL CONTRACTORS POLICIES OF GENERAL LIABILITY INSURANCE AS DESCRIBED ABOVE IN NOTE 19 FOR JOB SITE SAFETY.

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 IS 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, IN ACCORDANCE WITH PARAGRAPH 19 HEREIN, FOR AND FROM ALL FEES, ATTORNEYS FEES, DAMAGES, COSTS, JUDGMENTS, PENALTIES AND THE LIKE RELATED TO SAME.

CONTRACTOR IS 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 MUST BE INCLUDED IN THE CONTRACTORS PRICE.

ALL SIGNING AND PAVEMENT STRIPING MUST CONFORM TO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES OR LOCALLY APPROVED SUPPLEMENT.

ENGINEER IS NOT RESPONSIBLE FOR ANY INJURY OR DAMAGES RESULTING FROM CONTRACTORS 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.

OWNER MUST MAINTAIN AND PRESERVE ALL PHYSICAL SITE FEATURES AND DESIGN FEATURES DEPICTED ON THE PLANS AND RELATED DOCUMENTS, IN STRICT ACCORDANCE WITH THE APPROVED PLANS) AND DESIGN AND, FURTHER ENGINEER IS NOT 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.

ALL DIMENSIONS MUST BE TO FACE OF CURB, EDGE OF PAVEMENT, OR EDGE OF BUILDING, UNLESS NOTED OTHERWISE.

ALL CONSTRUCTION AND MATERIALS MUST COMPLY WITH AND CONFORM TO APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS, LAWS, ORDINANCES, RULES AND CODES, AND ALL APPLICABLE OSHA REQUIREMENTS.

CONTRACTOR AND OWNER MUST INSTALL ALL ELEMENTS AND COMPONENTS IN STRICT COMPLIANCE WITH AND ACCORDANCE WITH MANUFACTURERS 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.

CONTRACTOR IS 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 IS 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.

AS CONTAINED IN THESE DRAWINGS AND ASSOCIATED APPLICATION DOCUMENTS AS 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 UNDERSIGNING PROFESSIONALS KNOWLEDGE OR BELIEF AND IN ACCORDANCE WITH COMMON ACCEPTED PRACTICE CONSISTENT WITH THE APPLICABLE STANDARDS OF PRACTICE, AND DOES NOT CONSTITUTE A WARRANTY OR GUARANTEE, EITHER EXPRESSED OR IMPLIED.

## GENERAL GRADING & UTILITY PLAN NOTES

1. LOCATIONS OF ALL EXISTING AND PROPOSED SERVICES ARE APPROXIMATE AND MUST BE INDEPENDENTLY CONFIRMED WITH LOCAL UTILITY COMPANIES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION OR EXCAVATION. SANITARY SEWER AND ALL OTHER UTILITY CONNECTION POINTS MUST BE INDEPENDENTLY CONFIRMED BY THE CONTRACTOR IN THE FIELD PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. ALL DISCREPANCIES MUST IMMEDIATELY BE REPORTED, IN WRITING, TO THE ENGINEER. CONSTRUCTION MUST 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 CONSTRUCTION.

2. CONTRACTOR MUST VERTICALLY AND HORIZONTALLY LOCATE ALL UTILITIES AND SERVICES INCLUDING, BUT NOT LIMITED TO, GAS, WATER, ELECTRIC, SANITARY AND STORM SEWER, TELEPHONE, CABLE, FIBER OPTIC CABLE, ETC. WITHIN THE LIMITS OF DISTURBANCE OR WORK SPACE, WHICHEVER IS GREATER. THE CONTRACTOR MUST USE, REFER TO, AND COMPLY WITH THE REQUIREMENTS OF THE APPLICABLE UTILITY NOTIFICATION SYSTEM TO LOCATE ALL THE UNDERGROUND UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ALL DAMAGE TO ANY EXISTING UTILITIES DURING CONSTRUCTION, AT NO COST TO THE OWNER. CONTRACTOR SHALL BEAR ALL COSTS ASSOCIATED WITH DAMAGE TO ANY EXISTING UTILITIES DURING CONSTRUCTION.

3. IT IS THE CONTRACTORS RESPONSIBILITY TO REVIEW ALL CONSTRUCTION CONTRACT DOCUMENTS INCLUDING, BUT NOT LIMITED TO, ALL OF THE DRAWINGS AND SPECIFICATIONS ASSOCIATED WITH THE PROJECT WORK SCOPE AND ALL OTHER UTILITY INFORMATION AND COMMENCEMENT 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 CONTRACTORS SOLE RESPONSIBILITY TO NOTIFY THE PROJECT ENGINEER OF RECORD, IN WRITING, OF SAID CONFLICT AND/OR DISCREPANCY PRIOR TO THE START OF CONSTRUCTION. CONTRACTORS FAILURE TO NOTIFY THE PROJECT ENGINEER SHALL CONSTITUTE CONTRACTORS 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 CODES AND, FURTHER, CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH SAME.

4. THE CONTRACTOR MUST 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 IS RESPONSIBLE TO PROTECT AND MAINTAIN ALL ACTIVE AND INACTIVE SYSTEMS THAT ARE NOT BEING REMOVED/RELOCATED DURING SITE ACTIVITY.

5. THE CONTRACTOR MUST FAMILIARIZE ITSELF WITH THE APPLICABLE UTILITY SERVICE PROVIDER REQUIREMENTS AND IS RESPONSIBLE FOR ALL COORDINATION REGARDING UTILITY DEMOLITION AS IDENTIFIED OR REQUIRED FOR THE PROJECT. THE CONTRACTOR MUST PROVIDE THE OWNER WITH WRITTEN NOTIFICATION THAT THE EXISTING UTILITIES AND SERVICES HAVE BEEN TERMINATED AND ABANDONED IN ACCORDANCE WITH THE JURISDICTION AND UTILITY COMPANY REQUIREMENTS AND ALL OTHER APPLICABLE REQUIREMENTS, RULES, STATUTES, LAWS, ORDINANCES AND CODES.

6. THE CONTRACTOR MUST INSTALL ALL STORM SEWER AND SANITARY SEWER COMPONENTS WHICH FUNCTION BY GRAVITY PRIOR TO THE INSTALLATION OF ALL OTHER UTILITIES.

7. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF SITE PLAN DOCUMENTS AND ARCHITECTURAL DESIGN FOR EXACT BUILDING UTILITY CONNECTION LOCATIONS, GREASE TRAP REQUIREMENTS, AND FLOOR ACCESS, AND INTERIOR GRADING. THE ARCHITECT WILL DETERMINE THE UTILITY SERVICE SIZES. THE CONTRACTOR MUST COORDINATE INSTALLATION OF UTILITIES/SERVICES WITH THE INDIVIDUAL COMPANIES, TO AVOID CONFLICTS AND TO ENSURE THAT PROPER DEPTHS ARE ACHIEVED. THE CONTRACTOR IS 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, IS RESPONSIBLE FOR COORDINATING THE UTILITY INTERCONNECTIONS PRIOR TO CONNECTING TO THE EXISTING UTILITY/SERVICE WHERE A CONFLICT EXISTS BETWEEN THESE SITE PLANS AND THE ARCHITECTURAL PLANS, OR WHERE ARCHITECTURAL PLAN UTILITY CONNECTION POINTS DIFFER, THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE ENGINEER, IN WRITING, AND PRIOR TO CONSTRUCTION, RESOLVE SAME.

8. WATER SERVICE MATERIALS, BURIAL DEPTH, AND COVER REQUIREMENTS MUST BE SPECIFIED BY THE LOCAL UTILITY COMPANY. CONTRACTORS PRICE FOR WATER SERVICE MUST INCLUDE ALL FEES, COSTS AND APPLIANCES REQUIRED BY THE UTILITY TO PROVIDE FULL AND COMPLETE WORKING SERVICE. CONTRACTOR MUST CONTACT THE APPLICABLE MUNICIPALITY TO CONFIRM THE PROPER 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 MUST BE INSTALLED IN ACCORDANCE WITH THE UTILITY/SERVICE PROVIDER INSTALLATION SPECIFICATIONS AND STANDARDS.

10. SITE GRADING MUST 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 IS RESPONSIBLE FOR REMOVING AND REPLACING UNSUITABLE MATERIALS WITH SUITABLE MATERIALS AS SPECIFIED IN THE GEOTECHNICAL REPORT. ALL EXCAVATED OR FILLED AREAS MUST BE COMPACTED AS OUTLINED IN THE GEOTECHNICAL REPORT. MOISTURE CONTENT AT THE TIME OF PLACEMENT MUST 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 MUST BE FREE OF ORGANICS AND OTHER UNSUITABLE MATERIALS. SHOULD SUBBASE BE DETERMINED UNSUITABLE BY OWNER/DEVELOPER, OR OWNER/DEVELOPERS REPRESENTATIVE, SUBBASE IS TO BE REMOVED AND FILLED WITH APPROVED FILL MATERIAL COMPACTED AS OUTLINED BY THE GEOTECHNICAL REPORT. EARTHWORK ACTIVITIES INCLUDING, BUT NOT LIMITED TO, EXCAVATION, BACKFILL, AND COMPACTING MUST COMPLY WITH THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT AND ALL APPLICABLE REQUIREMENTS, RULES, STATUTES, LAWS, ORDINANCES AND CODES. EARTHWORK ACTIVITIES MUST COMPLY WITH THE STANDARD STATE DOT SPECIFICATIONS FOR ROADWAY CONSTRUCTION (LATEST EDITION) AND ANY AMENDMENTS OR REVISIONS THEREO.

11. ALL FILL, COMPACTION AND BACKFILL MATERIALS REQUIRED FOR UTILITY INSTALLATION MUST BE AS PER THE RECOMMENDATIONS PROVIDED IN THE GEOTECHNICAL REPORT AND MUST BE COORDINATED WITH THE APPLICABLE UTILITY COMPANY SPECIFICATIONS, WHEN THE PROJECT DOES NOT HAVE GEOTECHNICAL RECOMMENDATIONS, FILL AND COMPACTION MUST, 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 IS FULLY RESPONSIBLE FOR EARTHWORK BACKFILL.

12. THE CONTRACTOR MUST 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 IS 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 MUST BE SAW CUT IN STRAIGHT LINES, AND EXCEPT FOR EDGE OF BUTT JOINTS, MUST EXTEND TO THE FULL DEPTH OF THE EXISTING PAVEMENT. ALL DEBRIS FROM REMOVAL OPERATIONS MUST BE REMOVED FROM THE SITE AT THE TIME OF EXCAVATION. STOCKPILING OF DEBRIS WILL NOT BE PERMITTED.

14. THE TOPS OF EXISTING MANHOLES, INLET STRUCTURES, AND SANITARY CLEAUNOUT TOPS MUST BE ADJUSTED, AS NECESSARY, TO MATCH PROPOSED GRADES IN ACCORDANCE WITH ALL APPLICABLE STANDARDS, REQUIREMENTS, RULES, STATUTES, LAWS, ORDINANCES AND CODES.

15. DURING THE INSTALLATION OF SANITARY SEWER, STORM SEWER, AND ALL UTILITIES, THE CONTRACTOR MUST MAINTAIN A CONTEMPORANEOUS AND THOROUGH RECORD OF CONSTRUCTION TO INCLUDE THE EXACT LOCATIONS OF ALL UNDERGROUND STRUCTURES. THE CONTRACTOR MUST CAREFULLY NOTE ANY INSTALLATIONS THAT DEVIATE FROM THE INFORMATION CONTAINED IN THE UTILITY PLAN. THIS RECORD MUST BE KEPT ON A CLEAN COPY OF THE DRAINAGE OR UTILITY PLAN, WHICH CONTRACTOR MUST PROMPTLY PROVIDE TO THE OWNER AT THE COMPLETION OF WORK.

16. WHEN THE SITE IMPROVEMENT PLANS INVOLVE MULTIPLE BUILDINGS, SOME OF WHICH MAY BE BUILT AT A LATER DATE, THE CONTRACTOR MUST EXTEND ALL LINES, INCLUDING BUT NOT LIMITED TO STORM SEWER, SANITARY SEWER, UTILITIES, AND IRRIGATION LINE, TO A POINT AT LEAST FIVE (5) FEET BEYOND THE PAVED AREAS FOR WHICH THE CONTRACTOR IS RESPONSIBLE. CONTRACTOR MUST CAP ENDS AS APPROPRIATE, MARK LOCATIONS WITH A 2X4, AND MUST NOTE THE LOCATION OF ALL OF THE ABOVE ON A CLEAN COPY OF THE DRAINAGE OR UTILITY PLAN, WHICH CONTRACTOR MUST PROMPTLY PROVIDE TO THE OWNER UPON COMPLETION OF THE WORK.

17. THE CONTRACTOR IS FULLY RESPONSIBLE FOR VERIFICATION OF EXISTING TOPOGRAPHIC INFORMATION AND UTILITY INVERT ELEVATIONS PRIOR TO COMMENCING ANY CONSTRUCTION. CONTRACTOR MUST CONFIRM AND ENSURE 0.75% MINIMUM SLOPE AGAINST ALL ISLANDS, CUTTERS, AND CURBS; 1.0% ON ALL CONCRETE SURFACES; AND 1.5% MINIMUM ON ASPHALT (EXCEPT FOR DRIVEWAYS). EXCAVATIONS ARE NOT IDENTIFIED ON THESE PLANS, TO PREVENT PONDING, CONTRACTOR MUST IMMEDIATELY IDENTIFY, IN WRITING TO THE ENGINEER, ANY DISCREPANCIES THAT MAY OR COULD AFFECT THE PUBLIC SAFETY, HEALTH OR GENERAL WELFARE, OR PROJECT COST. IF CONTRACTOR PROCEEDS WITH CONSTRUCTION WITHOUT PROVIDING PROPER NOTIFICATION, MUST BE AT THE CONTRACTORS OWN RISK AND, FURTHER, CONTRACTOR SHALL INDEMNIFY, DEFEND AND HOLD HARMLESS THE DESIGN ENGINEER FOR ANY DAMAGES, COSTS, INJURIES, ATTORNEYS FEES AND THE LIKE WHICH RESULT FROM SAME.

18. PROPOSED TOP OF CURB ELEVATIONS ARE GENERALLY 1' ABOVE EXISTING LOCAL ASPHALT GRADE UNLESS OTHERWISE NOTED. FIELD ADJUST TO CREATE A MINIMUM OF .07% GUTTER GRADE ALONG CURB FACE. IT IS CONTRACTORS OBLIGATION TO ENSURE THAT DESIGN ENGINEER APPROVES FINAL CURBING CUT SHEETS PRIOR TO INSTALLATION OF SAME.

19. REFER TO THIS SHEET FOR ADDITIONAL NOTES.

20. IN THE EVENT OF DISCREPANCIES AND/OR CONFLICTS BETWEEN PLANS OR RELATIVE TO OTHER PLANS, THE SITE PLAN WILL TAKE PRECEDENCE AND CONTROL. CONTRACTOR MUST IMMEDIATELY NOTIFY THE DESIGN ENGINEER, IN WRITING, OF ANY DISCREPANCIES AND/OR CONFLICTS.

21. CONTRACTOR IS REQUIRED TO SECURE ALL NECESSARY AND/OR REQUIRED PERMITS AND APPROVALS FOR ALL OFF SITE MATERIAL SOURCES AND DISPOSAL FACILITIES. CONTRACTOR MUST SUPPLY A COPY OF APPROVALS TO ENGINEER AND OWNER PRIOR TO INITIATING ANY WORK.

22. 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. CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING AND REMEDYING ANY DEFICIENCIES IDENTIFIED BY THE CONTRACTOR BASED ON FINAL STRUCTURAL DESIGN SHOP DRAWINGS PREPARED BY THE APPROPRIATE PROFESSIONAL LICENSED IN THE STATE WHERE THE CONSTRUCTION OCCURS.

23. STORM DRAINAGE PIPE UNLESS INDICATED OTHERWISE, ALL STORM SEWER PIPE MUST BE REINFORCED CONCRETE PIPE (RCP) CLASS III WITH SILT TIGHT JOINTS. WHEN HIGH-DENSITY POLYETHYLENE (HDPE) PIPE IS CALLED FOR ON THE PLANS, IT MUST COMPLY WITH THE FOLLOWING: HDPE PIPE SHALL BE 15' MINIMUM INTERIOR WITH ANGULAR CORNECTIONS WITH GASKET FOR SILT TIGHT JOINT. PVC PIPE FOR ROOF DRAIN CONNECTION MUST BE SDR 26 OR SCHEDULE 40 UNLESS INDICATED OTHERWISE.

24. UNLESS INDICATED OTHERWISE ON THE DRAWINGS, SANITARY SEWER PIPE SHALL BE AS FOLLOWS:

- FOR PIPES LESS THAN 12 FT. DEPTH, POLYVINYL CHLORIDE (PVC) SDR 35 PER ASTM D3034
- FOR PIPE WITHIN 10 FT. OF BUILDING, PIPE MATERIAL SHALL COMPLY WITH APPLICABLE BUILDING AND PLUMBING CODES. CONTRACTOR TO VERIFY WITH LOCAL OFFICIALS.

25. STORM AND SANITARY SEWER PIPE LENGTHS INDICATED ARE NOMINAL AND MEASURED CENTER OF INLET AND/OR MANHOLES STRUCTURE TO CENTER OF STRUCTURE.

26. STORMWATER ROOF DRAIN LOCATIONS ARE BASED ON PRELIMINARY ARCHITECTURAL PLANS. CONTRACTOR IS RESPONSIBLE TO AND FOR VERIFYING LOCATIONS OF SAME BASED ON FINAL ARCHITECTURAL PLANS.

27. SEWERS CROSSING STREAMS AND/OR LOCATION WITHIN 10 FEET OF THE STREAM EMBANKMENT, OR WHERE SITE CONDITIONS SO INDICATE, MUST BE CONSTRUCTED OF STEEL, REINFORCED CONCRETE, DUCTILE IRON OR OTHER SUITABLE MATERIAL. SEWERS CONVEYING SANITARY FLOW COMBINED SANITARY AND STORMWATER FLOW OR INDUSTRIAL FLOW MUST BE SEPARATED FROM WATER MAINS BY A DISTANCE OF AT LEAST 10 FEET. IF SUCH LATERAL SEPARATION IS NOT POSSIBLE, THE PIPES MUST 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 MUST 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 SHOULD 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 MUST BE PROVIDED.

28. WATER MAIN PIPING MUST BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS AND SPECIFICATIONS OF THE LOCAL WATER PURVEYOR. WATER MAIN PIPING MUST BE ZINC COATED CLASS 52 DUCTILE IRON PIPE IN ACCORDANCE WITH THE CITY OF WORCESTER STANDARDS AND SPECIFICATIONS. ALL PIPE AND APPURTENANCES MUST COMPLY WITH THE APPLICABLE AWWA STANDARDS IN EFFECT AT THE TIME OF APPLICATION.

29. CONTRACTOR MUST ENSURE THAT ALL UTILITY TRENCHES LOCATED IN EXISTING PAVED ROADWAYS INCLUDING SEWER, WATER AND STORM SYSTEMS, MUST BE PREPARED IN ACCORDANCE WITH REFERENCED MUNICIPAL COUNTY AND/OR TOWN DETAILS AS APPLICABLE. CONTRACTOR MUST COORDINATE INSPECTION AND APPROVAL OF COMPLETED WORK WITH THE AGENCY WITH JURISDICTION OVER SAME.

30. LOCATION OF PROPOSED UTILITY POLE RELOCATION IS AT THE SOLE DISCRETION OF UTILITY COMPANY.

31. CONSULTANT IS NEITHER LIABLE NOR RESPONSIBLE FOR ANY SUBSURFACE CONDITIONS AND FURTHER, SHALL HAVE NO LIABILITY FOR ANY HAZARDOUS MATERIALS, HAZARDOUS SUBSTANCES, OR POLLUTANTS ON, ABOUT OR UNDER THE PROPERTY.

32. ALL SEWER, WATER, DRAIN & MATERIALS SHALL COMPLY WITH THE MOST RECENT CITY OF WORCESTER DEPARTMENT OF PUBLIC WORKS & PARKS STANDARD SPECIFICATIONS & DETAILS.

## CITY OF WORCESTER NOTES:

1. ALL TREE AND STUMP REMOVAL SHALL BE IN ACCORDANCE WITH THE ASIAN LONGHORNED BEETLE PROGRAM REQUIREMENTS AND ALL NEW TREE AND SHRUB PLANTINGS SHALL BE ASIAN LONGHORNED BEETLE AND EMERALD ASH BORER RESISTANT.
2. THE APPLICANT WILL PROVIDE AT NO COST TO THE CITY, ALL FACILITIES SHOWN ON THE PLAN INCLUDING BUT NOT LIMITED TO ROADWAYS, CURBS, BOUNDS, DRAINAGE SYSTEMS, SANITARY SEWER SYSTEMS, UTILITIES, STREET LIGHTS, AND EARTHWORKS, EXCEPT AS OTHERWISE NOTED ON THE PLAN.
3. PRIOR TO AND CONTINUING DURING ALL CONSTRUCTION ACTIVITIES, APPROPRIATE SOIL EROSION AND SEDIMENTATION CONTROL MEASURES INCLUDING HAY BALES AND SILT FENCES, SHALL BE INSTALLED AND MAINTAINED SUBJECT TO THE OVERSIGHT AND DIRECTION OF THE COMMISSIONER OF INSPECTIONAL SERVICES.
4. A PRE-CONSTRUCTION CONFERENCE WITH THE CITY OF WORCESTER'S DEPARTMENT OF PUBLIC WORKS & PARKS' DIVISION OF ENGINEERING SHALL BE HELD PRIOR TO ANY CONSTRUCTION.
5. ALL WORK SHALL CONFORM TO THE CITY OF WORCESTER'S SUBDIVISION RULES AND REGULATIONS, ZONING ORDINANCE, PLANNING BOARD DECISION AND CONDITIONS OF APPROVAL, AND TO THE STANDARDS CONTAINED IN THE CITY OF WORCESTER, DEPARTMENT OF PUBLIC WORKS & PARKS, ENGINEERING DIVISION, CONSTRUCTION MANAGEMENT SECTION, STANDARD SPECIFICATIONS & DETAILS, MOST RECENT EDITION.

## GENERAL DEMOLITION NOTES

1. THIS PLAN REFERENCES DOCUMENTS AND INFORMATION BY:

- "ALTANSPS LAND TITLE SURVEY" PREPARED BY CONTROL POINT ASSOCIATES, INC. REVISION 4 DATED 04/16/19

2. CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970, (29 U.S.C. 651 et seq.), AS AMENDED AND ANY MODIFICATIONS, AMENDMENTS OR REVISIONS TO SAME.

3. BOHLER ENGINEERING HAS NO CONTRACTUAL, LEGAL, OR OTHER RESPONSIBILITY FOR JOB SITE SAFETY OR JOB SITE SUPERVISION, OR ANYTHING RELATED TO SAME.

4. THE DEMOLITION PLAN IS INTENDED TO PROVIDE GENERAL INFORMATION ONLY, REGARDING ITEMS TO BE DEMOLISHED AND/OR REMOVED. THE CONTRACTOR MUST ALSO REVIEW THE OTHER SITE PLAN DRAWINGS AND INCLUDE IN DEMOLITION ACTIVITIES ALL INCIDENTAL WORK NECESSARY FOR THE CONSTRUCTION OF THE NEW SITE IMPROVEMENTS.

5. CONTRACTOR MUST RAISE ANY QUESTIONS CONCERNING THE ACCURACY OR INTENT OF THESE PLANS OR SPECIFICATIONS, CONCERNING REGARDING THE APPLICABLE SAFETY STANDARDS, OR THE SAFETY OF THE CONTRACTOR OR THIRD PARTIES IN PERFORMING THE WORK ON THIS PROJECT, WITH BOHLER ENGINEERING, IN WRITING, AND RESPONDED TO BY BOHLER, IN WRITING, PRIOR TO THE INITIATION OF ANY SITE ACTIVITY AND ANY DEMOLITION ACTIVITY. ALL DEMOLITION ACTIVITIES MUST 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.

6. PRIOR TO STARTING ANY DEMOLITION, CONTRACTOR IS 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 MUST 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 STORM SEWER, TELEPHONE, CABLE, FIBER OPTIC CABLE, ETC. WITHIN AND ADJACENT TO THE LIMITS OF PROJECT ACTIVITIES. THE CONTRACTOR MUST USE AND COMPLY WITH THE REQUIREMENTS OF THE APPLICABLE UTILITY NOTIFICATION SYSTEM TO LOCATE ALL THE UNDERGROUND UTILITIES.

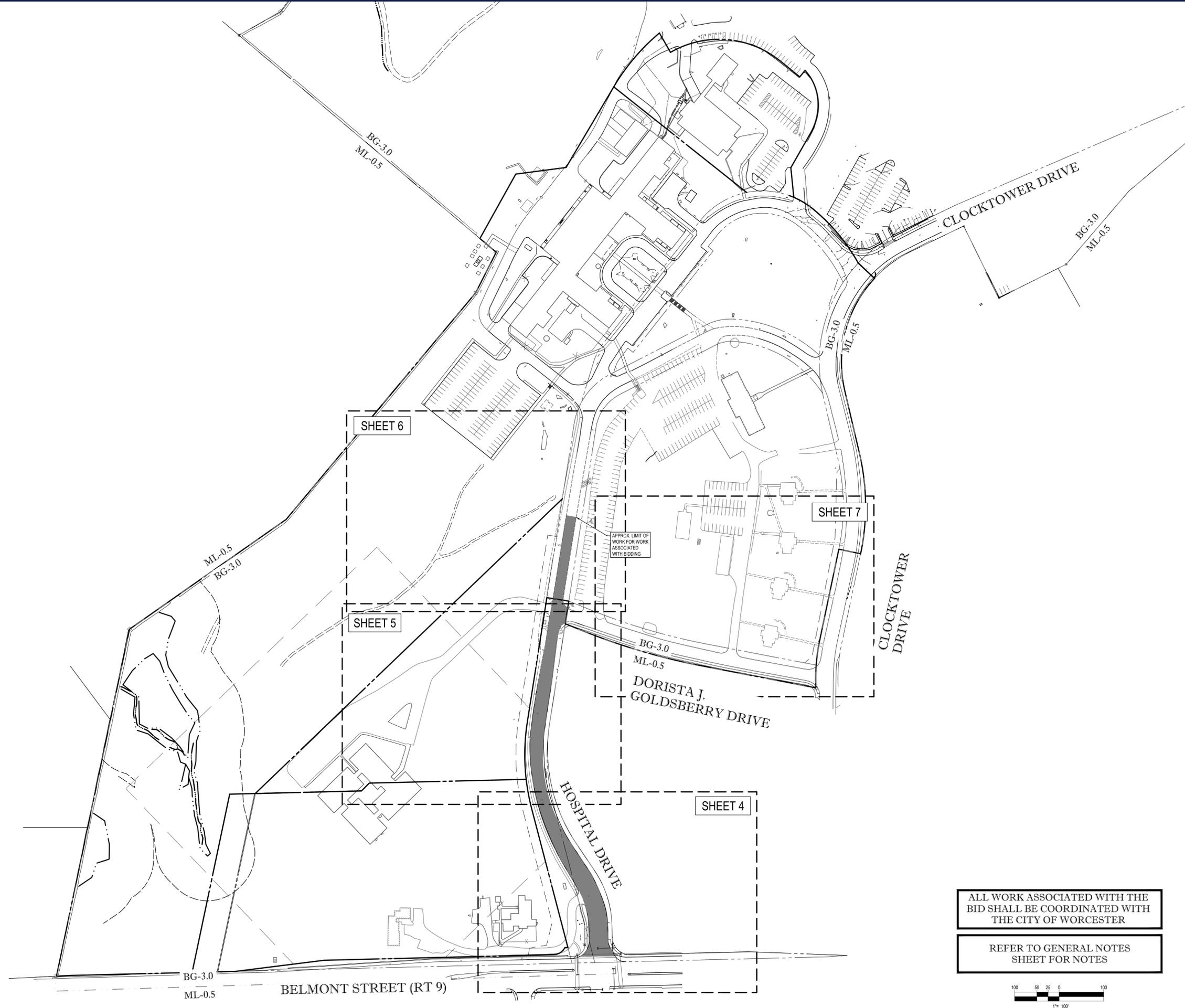
F. PROTECTING AND MAINTAINING IN OPERATION, ALL ACTIVE UTILITIES AND SYSTEMS THAT ARE NOT BEING REMOVED DURING ALL DEMOLITION ACTIVITIES.

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 MUST 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. COORDINATING 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.

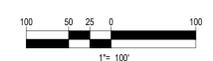
I. IN THE EVENT THE CONTRACTOR DISCOVERS ANY HAZARDOUS MATERIAL, THE REMOVAL OF WHICH IS NOT ADDRESSED IN THE PROJECT PLANS AND SPECIFICATIONS, THE CONTRACTOR MUST IMMEDIATELY CEASE ALL WORK AND IMMEDIATELY NOTIFY THE OWNER AND ENGINEER OF THE DISCOVERY OF SUCH MATERIALS.

7. THE FIRM OR ENGINEER OF RECORD IS NOT RESPONSIBLE FOR JOB SITE SAFETY OR SUPERVISION. CONTRACTOR MUST PROCEED WITH THE DEMOLITION IN A SYSTEMATIC AND SAFE MANNER, FOLLOWING ALL THE OSHA REQUIREMENTS, TO ENSURE PUBLIC AND CONTRACTOR SAFETY.



ALL WORK ASSOCIATED WITH THE BID SHALL BE COORDINATED WITH THE CITY OF WORCESTER

REFER TO GENERAL NOTES SHEET FOR NOTES



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 PROGRAM MANAGEMENT  
 LANDSCAPE ARCHITECTURE  
 SUSTAINABLE DESIGN  
 PERMITTING SERVICES  
 TRANSPORTATION SERVICES

**REVISIONS**

| REV | DATE       | COMMENT     | DRAWN BY | CHECKED BY |
|-----|------------|-------------|----------|------------|
| 1   | 09/03/2020 | ADDENDUM #1 | CMC      | NEM        |
| 2   | 09/18/2020 | ADDENDUM #2 | CMC      | NEM        |

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PROJECT No.: W161181  
 DRAWN BY: AJS / CMC  
 CHECKED BY: JAK / NEM  
 DATE: 09/03/2020  
 CAD I.D.: W161181S57

PROJECT:

**PHASE 1 BID DOCUMENTS**  
 FOR  
**HOSPITAL DRIVE SUBDIVISION**  
 LOCATION OF SITE  
 305 BELMONT STREET  
 WORCESTER COUNTY,  
 CITY OF WORCESTER,  
 MASSACHUSETTS  
 MAP #57, BLOCK #4, LOT B1-01,  
 LOT B1-02, AND LOT B1-04

**BOHLER**  
 352 TURNPIKE ROAD  
 SOUTHBOROUGH, MA 01772  
 Phone: (508) 480-9900  
 Fax: (508) 480-9080  
[www.BohlerEngineering.com](http://www.BohlerEngineering.com)

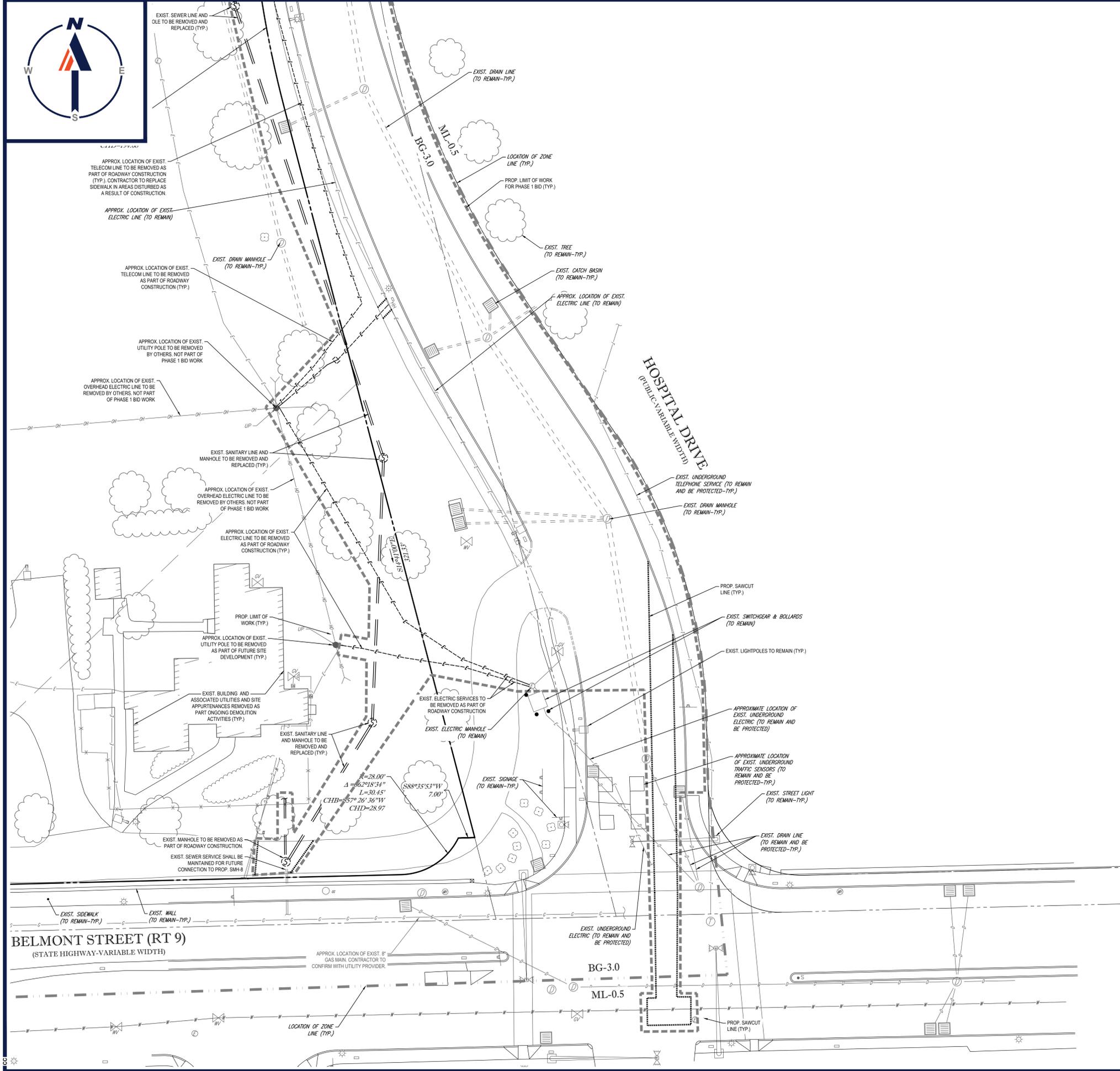
**J.A. KUCICH**  
 PROFESSIONAL ENGINEER  
 MASSACHUSETTS LICENSE No. 41533  
 NEW HAMPSHIRE LICENSE No. 15472  
 CONNECTICUT LICENSE No. 26177  
 RHODE ISLAND LICENSE No. 2476  
 MARYLAND LICENSE No. 22453

SHEET TITLE:  
**EXISTING CONDITIONS INDEX PLAN**

SHEET NUMBER:  
**3**

REV2 - 09/18/2020

P:\161181\DRAWINGS\PLAN SETS\CIVIL - REVY (BID PH1)\W161181S57 - LAYOUT - BIDSETPH\_03.DWG INDEX



APPROX. LOCATION OF EXIST. TELECOM LINE TO BE REMOVED AS PART OF ROADWAY CONSTRUCTION (TYP.). CONTRACTOR TO REPLACE SIDEWALK IN AREAS DISTURBED AS A RESULT OF CONSTRUCTION.

APPROX. LOCATION OF EXIST. ELECTRIC LINE (TO REMAIN)

APPROX. LOCATION OF EXIST. TELECOM LINE TO BE REMOVED AS PART OF ROADWAY CONSTRUCTION (TYP.)

APPROX. LOCATION OF EXIST. UTILITY POLE TO BE REMOVED BY OTHERS. NOT PART OF PHASE 1 BID WORK

APPROX. LOCATION OF EXIST. OVERHEAD ELECTRIC LINE TO BE REMOVED BY OTHERS. NOT PART OF PHASE 1 BID WORK

APPROX. LOCATION OF EXIST. OVERHEAD ELECTRIC LINE TO BE REMOVED BY OTHERS. NOT PART OF PHASE 1 BID WORK

APPROX. LOCATION OF EXIST. ELECTRIC LINE TO BE REMOVED AS PART OF ROADWAY CONSTRUCTION (TYP.)

APPROX. LOCATION OF EXIST. UTILITY POLE TO BE REMOVED AS PART OF FUTURE SITE DEVELOPMENT (TYP.)

EXIST. BUILDING AND ASSOCIATED UTILITIES AND SITE APPURTENANCES REMOVED AS PART ONGOING DEMOLITION ACTIVITIES (TYP.)

EXIST. SANITARY LINE AND MANHOLE TO BE REMOVED AND REPLACED (TYP.)

EXIST. MANHOLE TO BE REMOVED AS PART OF ROADWAY CONSTRUCTION. EXIST. SEWER SERVICE SHALL BE MAINTAINED FOR FUTURE CONNECTION TO PROP. SMH-4

EXIST. ELECTRIC SERVICES TO BE REMOVED AS PART OF ROADWAY CONSTRUCTION

EXIST. ELECTRIC MANHOLE (TO REMAIN)

EXIST. SIGNAGE (TO REMAIN-TYP.)

EXIST. UNDERGROUND TELEPHONE SERVICE (TO REMAIN AND BE PROTECTED-TYP.)

EXIST. DRAIN MANHOLE (TO REMAIN-TYP.)

PROP. SAWCUT LINE (TYP.)

EXIST. SWITCHGEAR & BOLLARDS (TO REMAIN)

EXIST. LIGHTPOLES TO REMAIN (TYP.)

APPROXIMATE LOCATION OF EXIST. UNDERGROUND ELECTRIC (TO REMAIN AND BE PROTECTED)

APPROXIMATE LOCATION OF EXIST. UNDERGROUND TRAFFIC SENSORS (TO REMAIN AND BE PROTECTED-TYP.)

EXIST. STREET LIGHT (TO REMAIN-TYP.)

EXIST. DRAIN LINE (TO REMAIN AND BE PROTECTED-TYP.)

EXIST. UNDERGROUND ELECTRIC (TO REMAIN AND BE PROTECTED)

BG-3.0  
ML-0.5

PROP. SAWCUT LINE (TYP.)

APPROX. LOCATION OF EXIST. 6" GAS MAIN. CONTRACTOR TO CONFIRM WITH UTILITY PROVIDER.

LOCATION OF ZONE LINE (TYP.)

BELMONT STREET (RT 9)  
(STATE HIGHWAY-VARIABLE WIDTH)

EXIST. SIDEWALK (TO REMAIN-TYP.)

EXIST. WALL (TO REMAIN-TYP.)

P:\161181\DRAWINGS\PLAN SET\CDRAWL - REVY (BID PH1)\161181SSST - LAYOUT: BIDSETPH\_04-EXIST. COND. A

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TRANSPORTATION SERVICES

**REVISIONS**

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| 1   | 09/03/2020 | ADDENDUM #1 | CMC      | NEM        |
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PROJECT No.: W161181  
DRAWN BY: AJS / CMC  
DATE: 09/03/2020  
CAD I.D.: W161181SS7

**PHASE 1 BID DOCUMENTS**

FOR  
**HOSPITAL DRIVE SUBDIVISION**

LOCATION OF SITE  
305 BELMONT STREET  
WORCESTER COUNTY,  
CITY OF WORCESTER,  
MASSACHUSETTS  
MAP #57, BLOCK #4, LOT B1-01,  
LOT B1-02, AND LOT B1-04

**BOHLER**

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CONNECTICUT LICENSE No. 26177  
RHODE ISLAND LICENSE No. 24716  
MORRIS LICENSE No. 22553

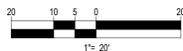
SHEET TITLE:  
**EXISTING CONDITIONS & DEMO PLAN "A"**

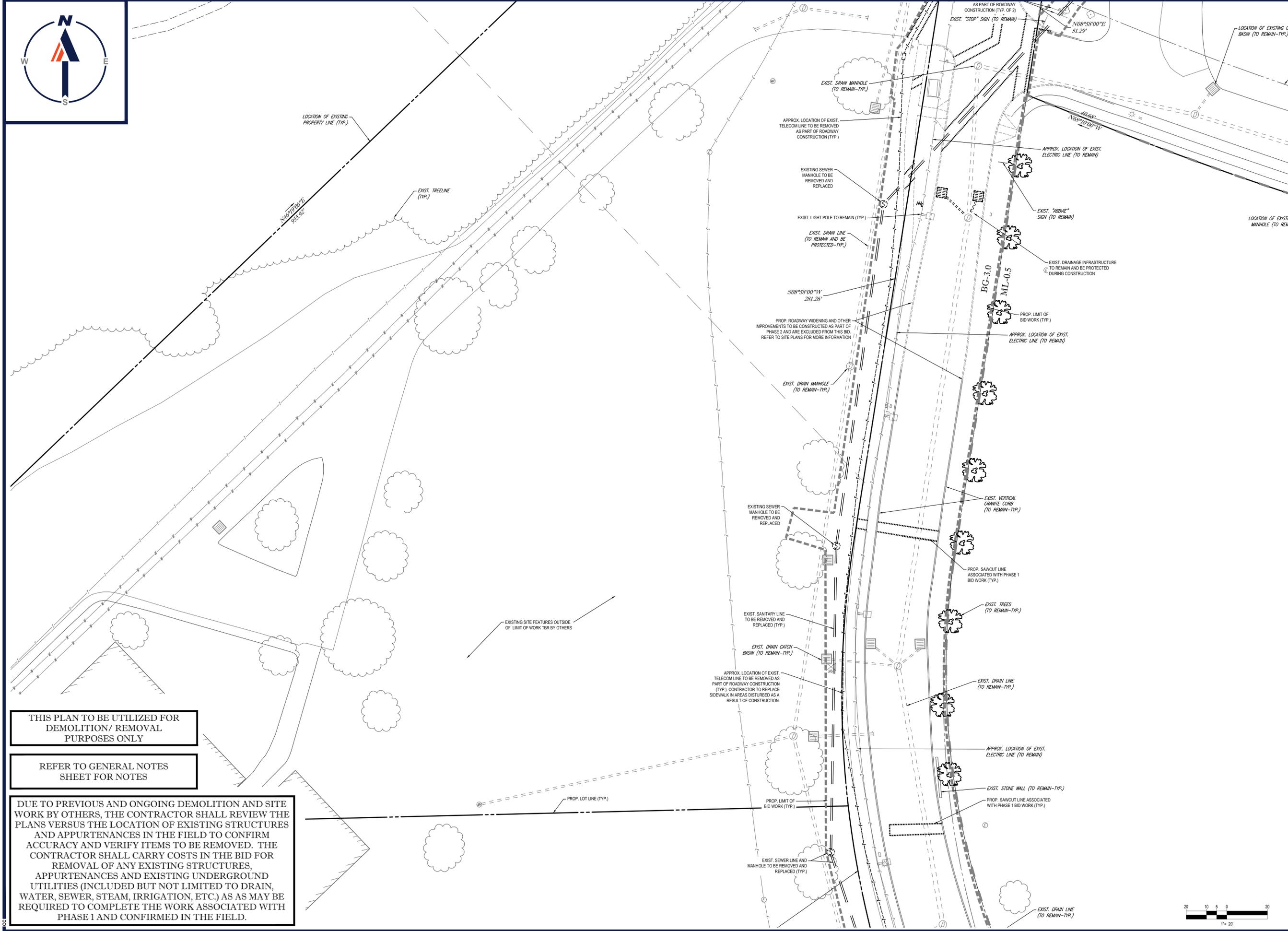
SHEET NUMBER:  
**4**

THIS PLAN TO BE UTILIZED FOR DEMOLITION/ REMOVAL PURPOSES ONLY

REFER TO GENERAL NOTES SHEET FOR NOTES

DUE TO PREVIOUS AND ONGOING DEMOLITION AND SITE WORK BY OTHERS, THE CONTRACTOR SHALL REVIEW THE PLANS VERSUS THE LOCATION OF EXISTING STRUCTURES AND APPURTENANCES IN THE FIELD TO CONFIRM ACCURACY AND VERIFY ITEMS TO BE REMOVED. THE CONTRACTOR SHALL CARRY COSTS IN THE BID FOR REMOVAL OF ANY EXISTING STRUCTURES, APPURTENANCES AND EXISTING UNDERGROUND UTILITIES (INCLUDED BUT NOT LIMITED TO DRAIN, WATER, SEWER, STEAM, IRRIGATION, ETC.) AS AS MAY BE REQUIRED TO COMPLETE THE WORK ASSOCIATED WITH PHASE 1 AND CONFIRMED IN THE FIELD.





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PROJECT No.: W161181  
DRAWN BY: AJS / CMC  
CHECKED BY: JAK / NEM  
DATE: 09/03/2020  
CAD I.D.: W161181S57

PROJECT:  
**PHASE 1 BID DOCUMENTS**  
FOR  
**HOSPITAL DRIVE SUBDIVISION**  
LOCATION OF SITE  
305 BELMONT STREET  
WORCESTER COUNTY,  
CITY OF WORCESTER,  
MASSACHUSETTS  
MAP #57, BLOCK #4, LOT B1-01,  
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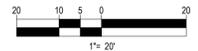
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CONNECTICUT LICENSE No. 26177  
RHODE ISLAND LICENSE No. 24716  
MORIE LICENSE No. 22453

SHEET TITLE:  
**EXISTING CONDITIONS & DEMO PLAN "B"**

SHEET NUMBER:  
**5**

P:\161181\DRAWINGS\PLAN SETS\CIVIL - REVY (BID PH1)\W161181S57 - LAYOUT: BIDSETPH\_06-EXIST. CONC. B

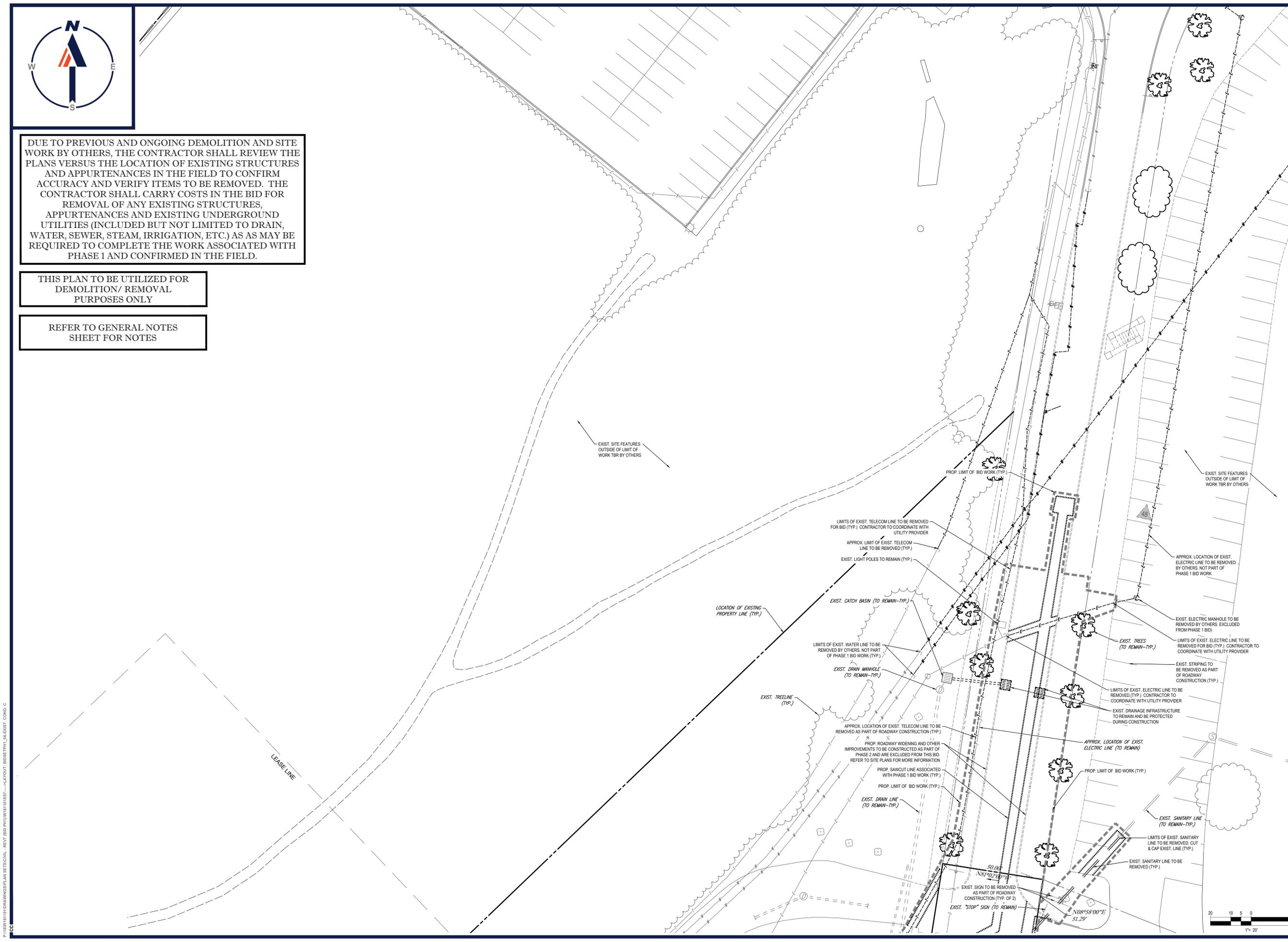




DUE TO PREVIOUS AND ONGOING DEMOLITION AND SITE WORK BY OTHERS, THE CONTRACTOR SHALL REVIEW THE PLANS VERSUS THE LOCATION OF EXISTING STRUCTURES AND APPURTENANCES IN THE FIELD TO CONFIRM ACCURACY AND VERIFY ITEMS TO BE REMOVED. THE CONTRACTOR SHALL CARRY COSTS IN THE BID FOR REMOVAL OF ANY EXISTING STRUCTURES, APPURTENANCES AND EXISTING UNDERGROUND UTILITIES (INCLUDED BUT NOT LIMITED TO DRAIN, WATER, SEWER, STEAM, IRRIGATION, ETC.) AS AS MAY BE REQUIRED TO COMPLETE THE WORK ASSOCIATED WITH PHASE 1 AND CONFIRMED IN THE FIELD.

THIS PLAN TO BE UTILIZED FOR DEMOLITION/ REMOVAL PURPOSES ONLY

REFER TO GENERAL NOTES SHEET FOR NOTES



**BOHLER**  
 SITE CIVIL AND CONSULTING ENGINEERING  
 PROGRAM MANAGEMENT  
 LANDSCAPE ARCHITECTURE  
 SUSTAINABLE DESIGN  
 PERMITTING SERVICES  
 TRANSPORTATION SERVICES

**REVISIONS**

| REV | DATE       | COMMENT     | DRAWN BY | CHECKED BY |
|-----|------------|-------------|----------|------------|
| 1   | 09/03/2020 | ADDENDUM #1 | CMC      | MEM        |
| 2   | 09/18/2020 | ADDENDUM #2 | CMC      | MEM        |

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**BID DRAWING**

THIS DRAWING IS INTENDED FOR MUNICIPAL AND/OR AGENCY REVIEW AND APPROVAL. IT IS NOT INTENDED AS A CONSTRUCTION DOCUMENT UNLESS INDICATED OTHERWISE.

PROJECT No.: W161181  
 DRAWN BY: AJS / CMC  
 CHECKED BY: JAK / NEM  
 DATE: 09/03/2020  
 CAD I.D.: W161181SS7

**PHASE 1 BID DOCUMENTS**

FOR  
**HOSPITAL DRIVE SUBDIVISION**

LOCATION OF SITE  
 305 BELMONT STREET  
 WORCESTER COUNTY,  
 CITY OF WORCESTER,  
 MASSACHUSETTS  
 MAP #57, BLOCK #4, LOT B1-01,  
 LOT B1-02, AND LOT B1-04

**BOHLER**

352 TURNPIKE ROAD  
 SOUTHBOROUGH, MA 01772  
 Phone: (508) 480-9900  
 Fax: (508) 480-9080  
[www.BohlerEngineering.com](http://www.BohlerEngineering.com)

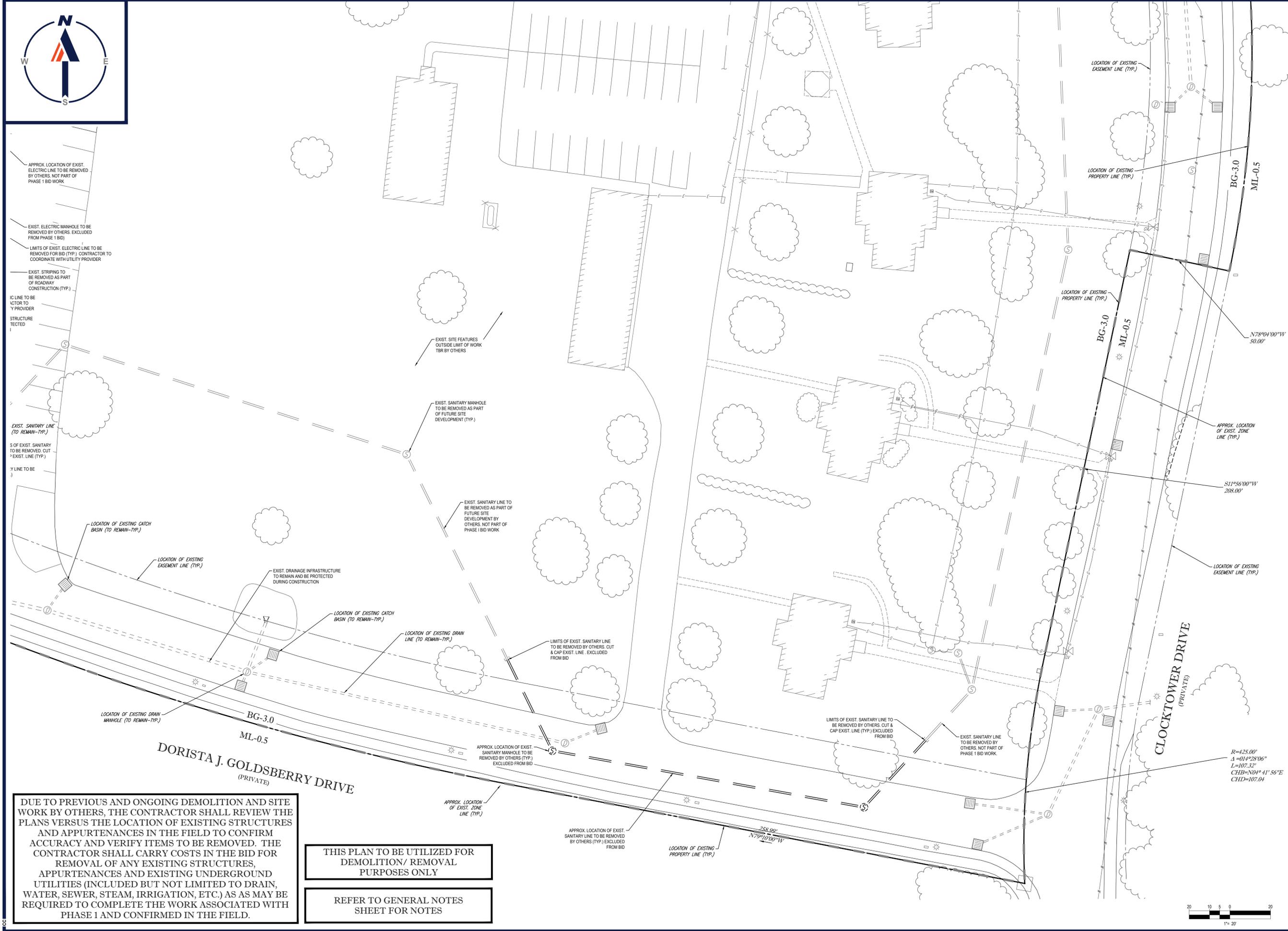
**J.A. KUCICH**  
 PROFESSIONAL ENGINEER  
 MASSACHUSETTS LICENSE No. 41537  
 NEW HAMPSHIRE LICENSE No. 15472  
 CONNECTICUT LICENSE No. 26177  
 RHODE ISLAND LICENSE No. 24716  
 MARYLAND LICENSE No. 22453

SHEET TITLE:  
**EXISTING CONDITIONS & DEMO PLAN "C"**

SHEET NUMBER:  
**6**

REV2 - 09/18/2020

P:\161181\DRAWINGS\PLAN SETS\CIVIL - REVY (BID PH1)\W161181SS7 - LAYOUT - BIDSETPH\_06-EXIST\_C.DWG



APPROX. LOCATION OF EXIST. ELECTRIC LINE TO BE REMOVED BY OTHERS, NOT PART OF PHASE 1 BID WORK

EXIST. ELECTRIC MANHOLE TO BE REMOVED BY OTHERS, EXCLUDED FROM PHASE 1 BID

LIMITS OF EXIST. ELECTRIC LINE TO BE REMOVED FOR BID (TYP.) CONTRACTOR TO COORDINATE WITH UTILITY PROVIDER

EXIST. STRIPING TO BE REMOVED AS PART OF ROADWAY CONSTRUCTION (TYP.)

UTILITY LINE TO BE REMOVED BY UTILITY PROVIDER

EXIST. SANITARY LINE (TO REMAIN-TYP.)

LIMITS OF EXIST. SANITARY LINE TO BE REMOVED, CUT & CAP EXIST. LINE (TYP.)

UTILITY LINE TO BE REMOVED BY UTILITY PROVIDER

LOCATION OF EXISTING CATCH BASIN (TO REMAIN-TYP.)

LOCATION OF EXISTING EASEMENT LINE (TYP.)

EXIST. DRAINAGE INFRASTRUCTURE TO REMAIN AND BE PROTECTED DURING CONSTRUCTION

LOCATION OF EXISTING CATCH BASIN (TO REMAIN-TYP.)

LOCATION OF EXISTING DRAIN LINE (TO REMAIN-TYP.)

LIMITS OF EXIST. SANITARY LINE TO BE REMOVED BY OTHERS, CUT & CAP EXIST. LINE, EXCLUDED FROM BID

APPROX. LOCATION OF EXIST. SANITARY MANHOLE TO BE REMOVED BY OTHERS (TYP.) EXCLUDED FROM BID

APPROX. LOCATION OF EXIST. SANITARY LINE TO BE REMOVED BY OTHERS (TYP.) EXCLUDED FROM BID

EXIST. SITE FEATURES OUTSIDE LIMIT OF WORK TBR BY OTHERS

EXIST. SANITARY MANHOLE TO BE REMOVED AS PART OF FUTURE SITE DEVELOPMENT (TYP.)

EXIST. SANITARY LINE TO BE REMOVED AS PART OF FUTURE SITE DEVELOPMENT BY OTHERS, NOT PART OF PHASE 1 BID WORK

EXIST. SANITARY LINE TO BE REMOVED BY OTHERS, CUT & CAP EXIST. LINE, EXCLUDED FROM BID

LIMITS OF EXIST. SANITARY LINE TO BE REMOVED BY OTHERS, CUT & CAP EXIST. LINE, EXCLUDED FROM BID

EXIST. SANITARY LINE TO BE REMOVED BY OTHERS, NOT PART OF PHASE 1 BID WORK

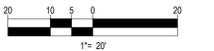
LIMITS OF EXIST. SANITARY LINE TO BE REMOVED BY OTHERS, CUT & CAP EXIST. LINE (TYP.) EXCLUDED FROM BID

EXIST. SANITARY LINE TO BE REMOVED BY OTHERS, NOT PART OF PHASE 1 BID WORK

**DUE TO PREVIOUS AND ONGOING DEMOLITION AND SITE WORK BY OTHERS, THE CONTRACTOR SHALL REVIEW THE PLANS VERSUS THE LOCATION OF EXISTING STRUCTURES AND APPURTENANCES IN THE FIELD TO CONFIRM ACCURACY AND VERIFY ITEMS TO BE REMOVED. THE CONTRACTOR SHALL CARRY COSTS IN THE BID FOR REMOVAL OF ANY EXISTING STRUCTURES, APPURTENANCES AND EXISTING UNDERGROUND UTILITIES (INCLUDED BUT NOT LIMITED TO DRAIN, WATER, SEWER, STEAM, IRRIGATION, ETC.) AS AS MAY BE REQUIRED TO COMPLETE THE WORK ASSOCIATED WITH PHASE 1 AND CONFIRMED IN THE FIELD.**

**THIS PLAN TO BE UTILIZED FOR DEMOLITION/ REMOVAL PURPOSES ONLY**

**REFER TO GENERAL NOTES SHEET FOR NOTES**



**BOHLER**  
 SITE CIVIL AND CONSULTING ENGINEERING  
 PROGRAM MANAGEMENT  
 LANDSCAPE ARCHITECTURE  
 SUSTAINABLE DESIGN  
 PERMITTING SERVICES  
 TRANSPORTATION SERVICES

**REVISIONS**

| REV | DATE       | COMMENT     | DRAWN BY | CHECKED BY |
|-----|------------|-------------|----------|------------|
| 1   | 09/03/2020 | ADDENDUM #1 | CMC      | CMC        |
| 2   | 09/18/2020 | ADDENDUM #2 | CMC      | MEM        |

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**BID DRAWING**

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PROJECT No.: W161181  
 DRAWN BY: AJS / CMC  
 CHECKED BY: JAK / MEM  
 DATE: 09/03/2020  
 CAD I.D.: W161181S57

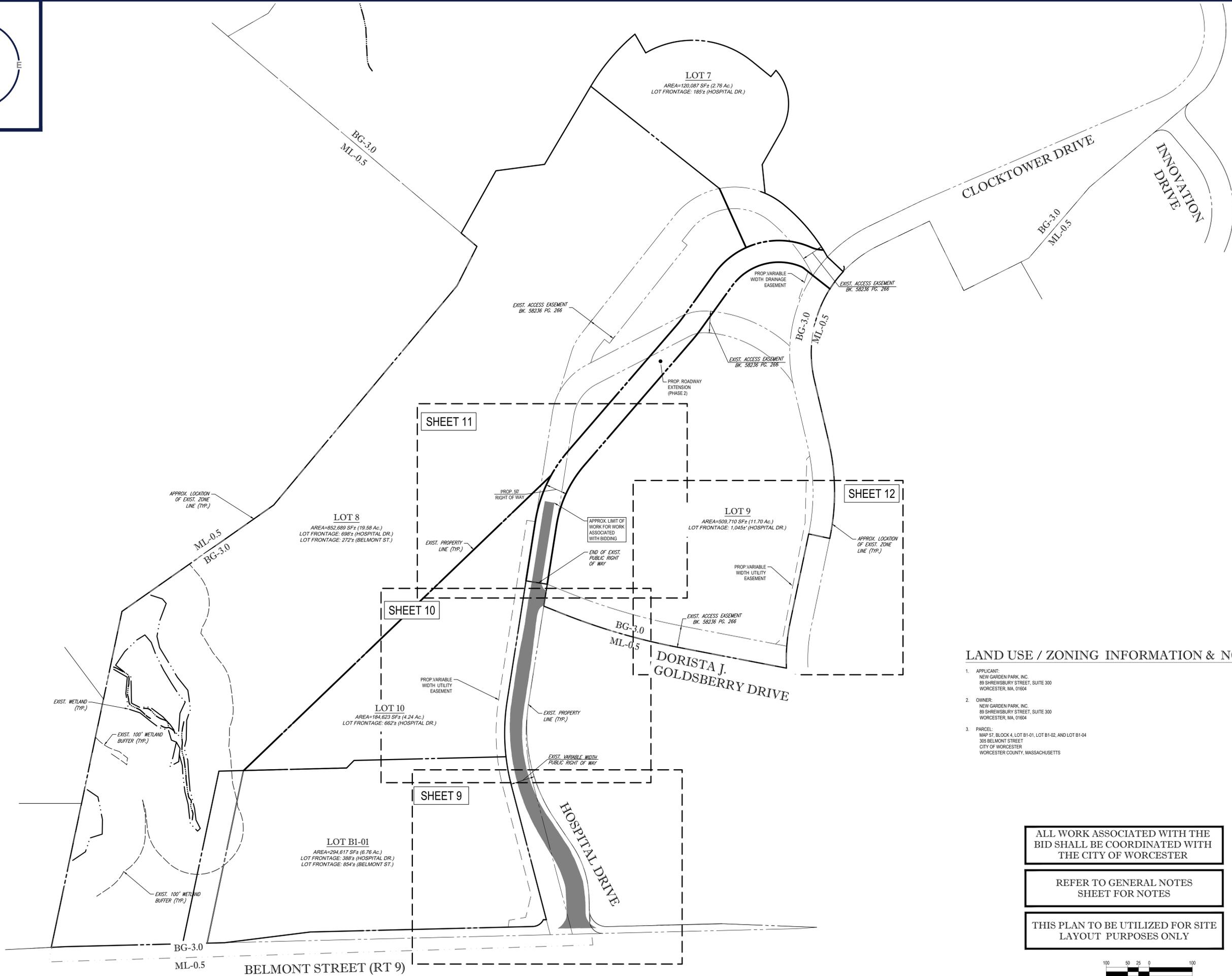
PROJECT:  
**PHASE 1 BID DOCUMENTS**  
 FOR  
**HOSPITAL DRIVE SUBDIVISION**  
 LOCATION OF SITE  
 305 BELMONT STREET  
 WORCESTER COUNTY,  
 CITY OF WORCESTER,  
 MASSACHUSETTS  
 MAP #57, BLOCK #4, LOT B1-01,  
 LOT B1-02, AND LOT B1-04

**BOHLER**  
 352 TURNPIKE ROAD  
 SOUTHBOROUGH, MA 01772  
 Phone: (508) 480-9900  
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 www.BohlerEngineering.com

**J.A. KUCICH**  
 PROFESSIONAL ENGINEER  
 MASSACHUSETTS LICENSE No. 41532  
 NEW HAMPSHIRE LICENSE No. 15472  
 CONNECTICUT LICENSE No. 26177  
 RHODE ISLAND LICENSE No. 24716  
 MARYLAND LICENSE No. 22453

SHEET TITLE:  
**EXISTING CONDITIONS & DEMO PLAN "D"**

SHEET NUMBER:  
**7**



SHEET 11

SHEET 12

SHEET 10

SHEET 9

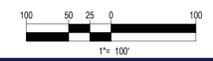
**LAND USE / ZONING INFORMATION & NOTES**

1. APPLICANT:  
NEW GARDEN PARK, INC.  
89 SHREWSBURY STREET, SUITE 300  
WORCESTER, MA, 01604
2. OWNER:  
NEW GARDEN PARK, INC.  
89 SHREWSBURY STREET, SUITE 300  
WORCESTER, MA, 01604
3. PARCEL:  
MAP 57, BLOCK 4, LOT B1-01, LOT B1-02, AND LOT B1-04  
305 BELMONT STREET  
CITY OF WORCESTER  
WORCESTER COUNTY, MASSACHUSETTS

ALL WORK ASSOCIATED WITH THE BID SHALL BE COORDINATED WITH THE CITY OF WORCESTER

REFER TO GENERAL NOTES SHEET FOR NOTES

THIS PLAN TO BE UTILIZED FOR SITE LAYOUT PURPOSES ONLY



**BOHLER**  
SITE CIVIL AND CONSULTING ENGINEERING  
PROGRAM MANAGEMENT  
LANDSCAPE ARCHITECTURE  
SUSTAINABLE DESIGN  
PERMITTING SERVICES  
TRANSPORTATION SERVICES

**REVISIONS**

| REV | DATE       | COMMENT     | DRAWN BY | CHECKED BY |
|-----|------------|-------------|----------|------------|
| 1   | 09/03/2020 | ADDENDUM #1 | CMC      | MEM        |
| 2   | 09/18/2020 | ADDENDUM #2 | CMC      | MEM        |

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PROJECT No.: W161181  
DRAWN BY: AJS / CMC  
CHECKED BY: JAK / NEM  
DATE: 09/03/2020  
CAD I.D.: W161181S57

**PROJECT:**

**PHASE 1 BID DOCUMENTS**  
FOR  
**HOSPITAL DRIVE SUBDIVISION**  
LOCATION OF SITE  
305 BELMONT STREET  
WORCESTER COUNTY,  
CITY OF WORCESTER,  
MASSACHUSETTS  
MAP #57, BLOCK #4, LOT B1-01,  
LOT B1-02, AND LOT B1-04

**BOHLER**  
352 TURNPIKE ROAD  
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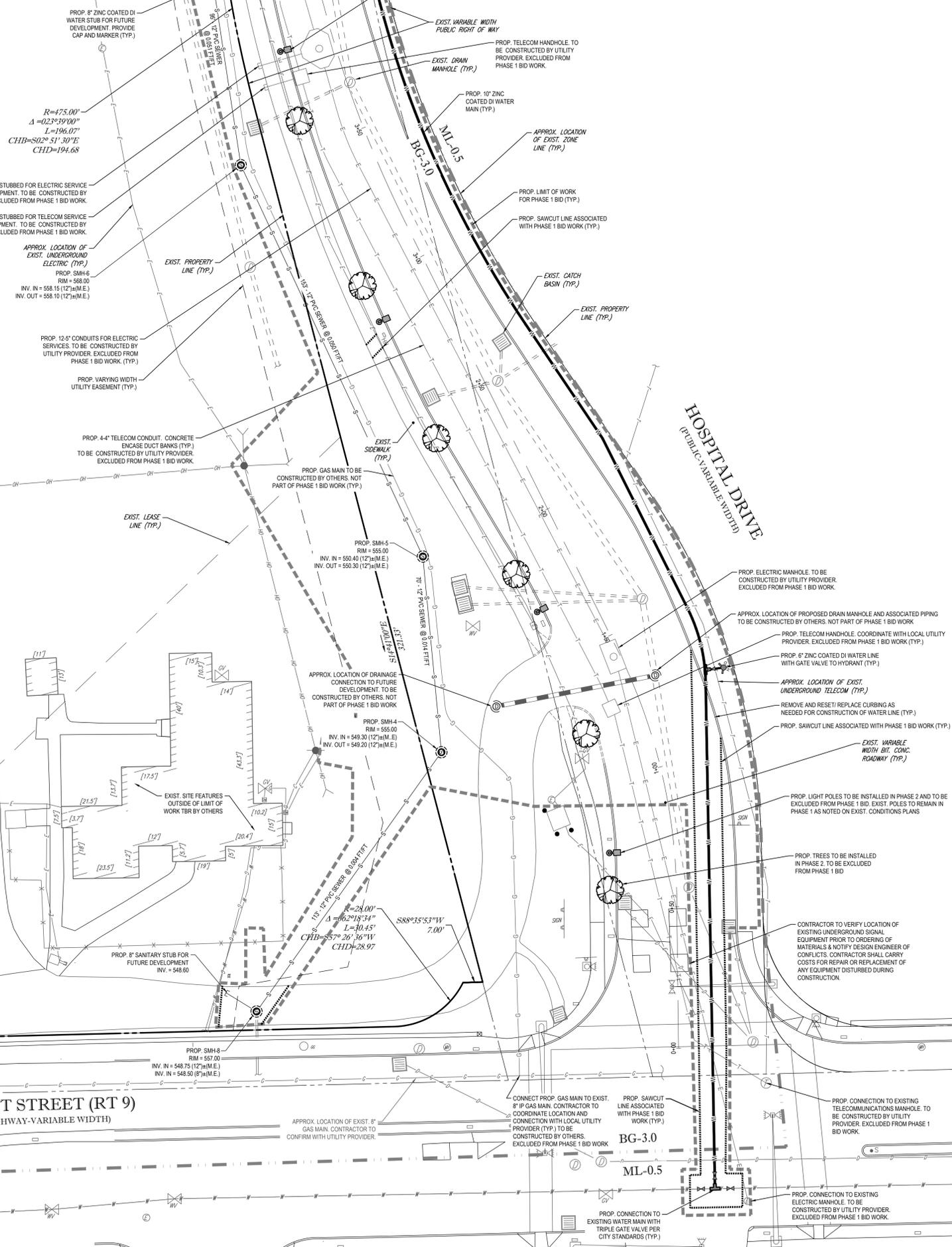
**J.A. KUCICH**  
PROFESSIONAL ENGINEER  
MASSACHUSETTS LICENSE No. 41534  
NEW HAMPSHIRE LICENSE No. 15476  
CONNECTICUT LICENSE No. 26177  
RHODE ISLAND LICENSE No. 24716  
MORIE LICENSE No. 22453

SHEET TITLE:  
**OVERALL SITE INDEX PLAN**

SHEET NUMBER:  
**8**

REV2 - 09/18/2020

P:\0161181\DRAWINGS\PLAN SETS\DWG - REVY (BID PH1)\W161181S57 - LAYOUT - BIDSEPH1\_08-SITE INDEX



P:\161181\DRAWINGS\PLAN SETS\DWG - REV (BID PH) \161181SSST - LAYOUT: BIDSEPH, 09-SITE A

**BOHLER**  
 SITE CIVIL AND CONSULTING ENGINEERING  
 PROGRAM MANAGEMENT  
 LANDSCAPE ARCHITECTURE  
 SUSTAINABLE DESIGN  
 PERMITTING SERVICES  
 TRANSPORTATION SERVICES

**REVISIONS**

| REV | DATE       | COMMENT     | DRAWN BY | CHECKED BY |
|-----|------------|-------------|----------|------------|
| 1   | 09/03/2020 | ADDENDUM #1 | CNC      | MEM        |
| 2   | 09/18/2020 | ADDENDUM #2 | CNC      | MEM        |

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PROJECT No.: W161181  
 DRAWN BY: AJS / CMC  
 CHECKED BY: JAK / NEM  
 DATE: 09/03/2020  
 CAD ID: W161181SSST

**PHASE 1 BID DOCUMENTS**

FOR  
**HOSPITAL DRIVE SUBDIVISION**  
 LOCATION OF SITE  
 305 BELMONT STREET  
 WORCESTER COUNTY,  
 MASSACHUSETTS  
 MAP #57, BLOCK #4, LOT B1-01,  
 LOT B1-02, AND LOT B1-04

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**J.A. KUCICH**  
 PROFESSIONAL ENGINEER  
 MASSACHUSETTS LICENSE No. 41530  
 NEW HAMPSHIRE LICENSE No. 15470  
 CONNECTICUT LICENSE No. 26179  
 RHODE ISLAND LICENSE No. 20716  
 MARYLAND LICENSE No. 22553

SHEET TITLE:  
**SITE & UTILITY PLAN "A"**  
 SHEET NUMBER:  
**9**

REV2 - 09/18/2020

CONTRACTOR IS RESPONSIBLE FOR COORDINATING DISCONTINUANCE OF TEMPORARY SEWER BYPASS WITH THE CITY OF WORCESTER AND WBDC.

PROPOSED ELECTRIC, TELECOM AND GAS INFRASTRUCTURE TO BE CONSTRUCTED BY LOCAL UTILITY PROVIDERS AND ARE SHOWN FOR INFORMATIONAL PURPOSES. ALL WORK ASSOCIATED WITH THE BID SHALL BE COORDINATED WITH WORK BEING PERFORMED BY OTHERS

PATCHING OF PAVEMENT WITHIN HOSPITAL DRIVE SHALL BE DONE IN ACCORDANCE WITH CITY OF WORCESTER SPECIFICATIONS AND SHALL BE COORDINATED WITH THE CITY OF WORCESTER AND ALL UTILITY COMPANIES

THE CONTRACTOR SHOULD USE TREE SAVING PRACTICES TO THE MAXIMUM EXTENT PLAUSIBLE TO SAVE ALL EXISTING TREES. CONTRACTOR TO NOTIFY DESIGN ENGINEER WITH ANY CONFLICTS

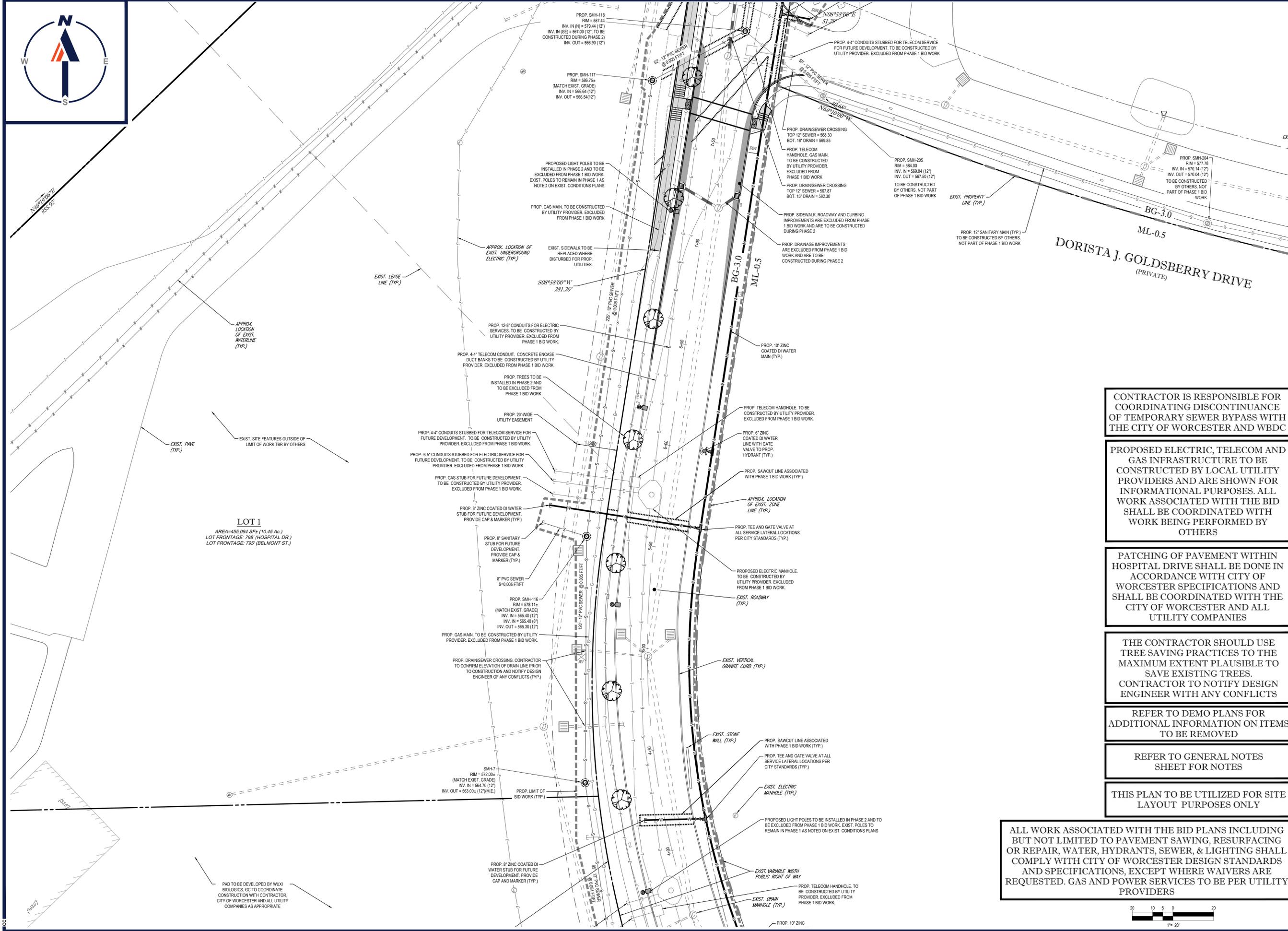
REFER TO DEMO PLANS FOR ADDITIONAL INFORMATION ON ITEMS TO BE REMOVED

REFER TO GENERAL NOTES SHEET FOR NOTES

THIS PLAN TO BE UTILIZED FOR SITE LAYOUT PURPOSES ONLY

ALL WORK ASSOCIATED WITH THE BID PLANS INCLUDING BUT NOT LIMITED TO PAVEMENT SAWING, RESURFACING OR REPAIR, WATER, HYDRANTS, SEWER, & LIGHTING SHALL COMPLY WITH CITY OF WORCESTER DESIGN STANDARDS AND SPECIFICATIONS, EXCEPT WHERE WAIVERS ARE REQUESTED. GAS AND POWER SERVICES TO BE PER UTILITY PROVIDERS





**LOT 1**  
 AREA=455,064 SF± (10.45 Ac.)  
 LOT FRONTAGE: 798' (HOSPITAL DR.)  
 LOT FRONTAGE: 795' (BELMONT ST.)

PAD TO BE DEVELOPED BY WUXI BIOLOGICS, GC TO COORDINATE CONSTRUCTION WITH CONTRACTOR, CITY OF WORCESTER AND ALL UTILITY COMPANIES AS APPROPRIATE

**BOHLER**  
 SITE CIVIL AND CONSULTING ENGINEERING  
 PROGRAM MANAGEMENT  
 LANDSCAPE ARCHITECTURE  
 SUSTAINABLE DESIGN  
 PERMITTING SERVICES  
 TRANSPORTATION SERVICES

**REVISIONS**

| REV | DATE       | COMMENT     | DRAWN BY | CHECKED BY |
|-----|------------|-------------|----------|------------|
| 1   | 09/03/2020 | ADDENDUM #1 | CMC      | MEM        |
| 2   | 09/18/2020 | ADDENDUM #2 | CMC      | MEM        |

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PROJECT No.: W161181  
 DRAWN BY: AJS / CMC  
 CHECKED BY: JAK / NEM  
 DATE: 09/03/2020  
 CAD ID: W161181S57

**PHASE 1 BID DOCUMENTS**

FOR  
**HOSPITAL DRIVE SUBDIVISION**

LOCATION OF SITE  
 305 BELMONT STREET  
 WORCESTER COUNTY,  
 CITY OF WORCESTER,  
 MASSACHUSETTS  
 MAP #57, BLOCK #4, LOT B1-01,  
 LOT B1-02, AND LOT B1-04

**BOHLER**

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 www.BohlerEngineering.com

**J.A. KUCICH**  
 PROFESSIONAL ENGINEER  
 MASSACHUSETTS LICENSE No. 41530  
 NEW HAMPSHIRE LICENSE No. 15470  
 CONNECTICUT LICENSE No. 26127  
 RHODE ISLAND LICENSE No. 24716  
 MARYLAND LICENSE No. 22453

SHEET TITLE:  
**SITE & UTILITY PLAN "B"**

SHEET NUMBER:  
**10**

REV 2 - 09/18/2020

CONTRACTOR IS RESPONSIBLE FOR COORDINATING DISCONTINUANCE OF TEMPORARY SEWER BYPASS WITH THE CITY OF WORCESTER AND WBDC

PROPOSED ELECTRIC, TELECOM AND GAS INFRASTRUCTURE TO BE CONSTRUCTED BY LOCAL UTILITY PROVIDERS AND ARE SHOWN FOR INFORMATIONAL PURPOSES. ALL WORK ASSOCIATED WITH THE BID SHALL BE COORDINATED WITH WORK BEING PERFORMED BY OTHERS

PATCHING OF PAVEMENT WITHIN HOSPITAL DRIVE SHALL BE DONE IN ACCORDANCE WITH CITY OF WORCESTER SPECIFICATIONS AND SHALL BE COORDINATED WITH THE CITY OF WORCESTER AND ALL UTILITY COMPANIES

THE CONTRACTOR SHOULD USE TREE SAVING PRACTICES TO THE MAXIMUM EXTENT PLAUSIBLE TO SAVE EXISTING TREES. CONTRACTOR TO NOTIFY DESIGN ENGINEER WITH ANY CONFLICTS

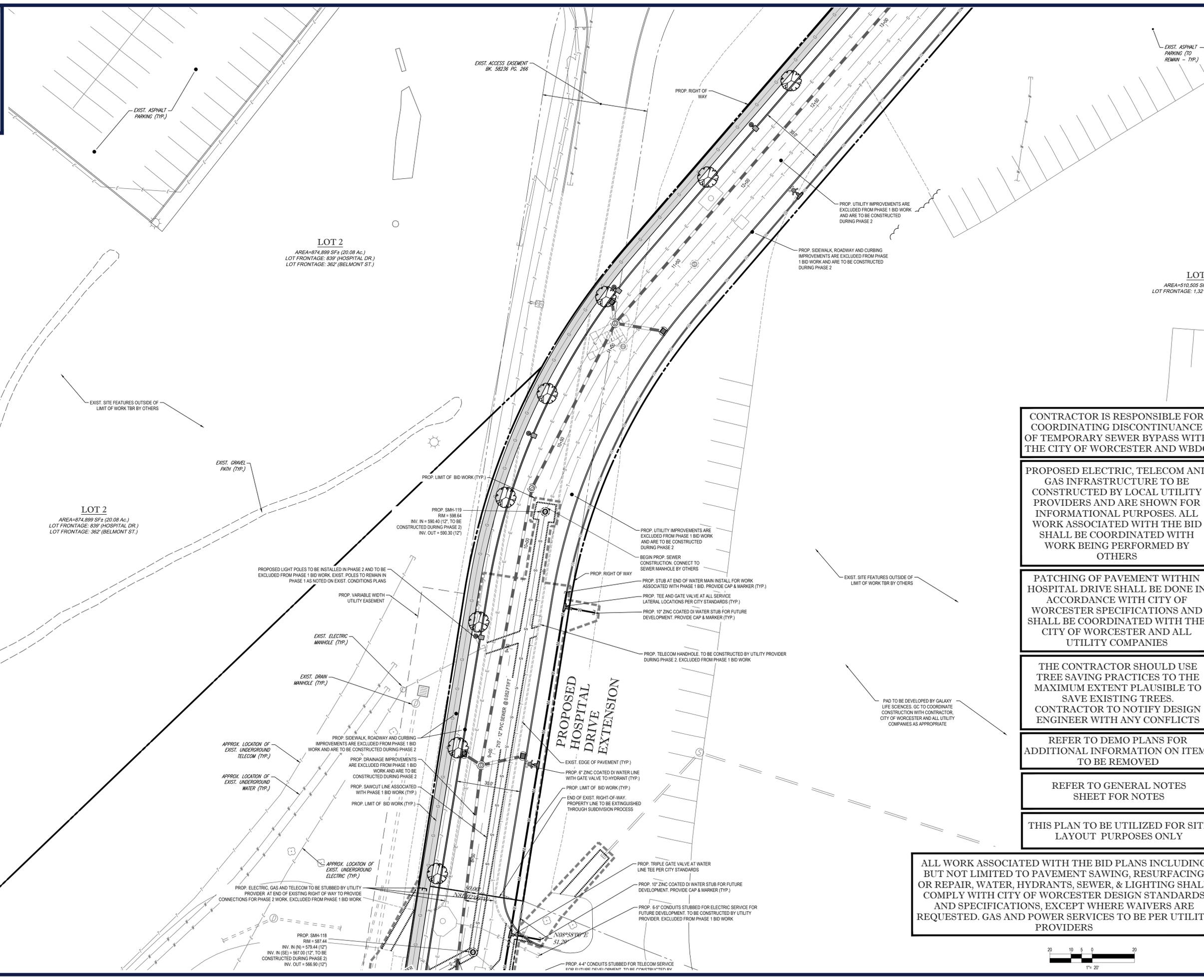
REFER TO DEMO PLANS FOR ADDITIONAL INFORMATION ON ITEMS TO BE REMOVED

REFER TO GENERAL NOTES SHEET FOR NOTES

THIS PLAN TO BE UTILIZED FOR SITE LAYOUT PURPOSES ONLY

ALL WORK ASSOCIATED WITH THE BID PLANS INCLUDING BUT NOT LIMITED TO PAVEMENT SAWING, RESURFACING OR REPAIR, WATER, HYDRANTS, SEWER, & LIGHTING SHALL COMPLY WITH CITY OF WORCESTER DESIGN STANDARDS AND SPECIFICATIONS, EXCEPT WHERE WAIVERS ARE REQUESTED. GAS AND POWER SERVICES TO BE PER UTILITY PROVIDERS





**LOT 2**  
 AREA=874,899 SF± (20.08 Ac.)  
 LOT FRONTAGE: 839' (HOSPITAL DR.)  
 LOT FRONTAGE: 362' (BELMONT ST.)

**LOT 2**  
 AREA=874,899 SF± (20.08 Ac.)  
 LOT FRONTAGE: 839' (HOSPITAL DR.)  
 LOT FRONTAGE: 362' (BELMONT ST.)

**LOT 3**  
 AREA=510,505 SF± (11.66 Ac.)  
 LOT FRONTAGE: 1,321' (HOSPITAL DR.)

**BOHLER**  
 SITE CIVIL AND CONSULTING ENGINEERING  
 PROGRAM MANAGEMENT  
 LANDSCAPE ARCHITECTURE  
 SUSTAINABLE DESIGN  
 PERMITTING SERVICES  
 TRANSPORTATION SERVICES

**REVISIONS**

| REV | DATE       | COMMENT     | DRAWN BY | CHECKED BY |
|-----|------------|-------------|----------|------------|
| 1   | 09/03/2020 | ADDENDUM #1 | CMC      | MEM        |
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**BID DRAWING**

PROPOSED ELECTRIC, TELECOM AND GAS INFRASTRUCTURE TO BE CONSTRUCTED BY LOCAL UTILITY PROVIDERS AND ARE SHOWN FOR INFORMATIONAL PURPOSES. ALL WORK ASSOCIATED WITH THE BID SHALL BE COORDINATED WITH WORK BEING PERFORMED BY OTHERS

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PROJECT No.: W161181  
 DRAWN BY: AJS / CMC  
 CHECKED BY: JAK / MEM  
 DATE: 09/03/2020  
 CAD I.D.: W161181S57

PROJECT:

**PHASE 1 BID DOCUMENTS**

FOR

**HOSPITAL DRIVE SUBDIVISION**

LOCATION OF SITE  
 305 BELMONT STREET  
 WORCESTER COUNTY,  
 CITY OF WORCESTER,  
 MASSACHUSETTS  
 MAP #57, BLOCK #4, LOT B1-01,  
 LOT B1-02, AND LOT B1-04

PATCHING OF PAVEMENT WITHIN HOSPITAL DRIVE SHALL BE DONE IN ACCORDANCE WITH CITY OF WORCESTER SPECIFICATIONS AND SHALL BE COORDINATED WITH THE CITY OF WORCESTER AND ALL UTILITY COMPANIES

THE CONTRACTOR SHOULD USE TREE SAVING PRACTICES TO THE MAXIMUM EXTENT PLAUSIBLE TO SAVE EXISTING TREES. CONTRACTOR TO NOTIFY DESIGN ENGINEER WITH ANY CONFLICTS

**BOHLER**

352 TURNPIKE ROAD  
 SOUTHBOROUGH, MA 01772  
 Phone: (508) 480-9900  
 Fax: (508) 480-9080  
 www.BohlerEngineering.com

REFER TO DEMO PLANS FOR ADDITIONAL INFORMATION ON ITEMS TO BE REMOVED

REFER TO GENERAL NOTES SHEET FOR NOTES

**J.A. KUCICH**

PROFESSIONAL ENGINEER  
 MASSACHUSETTS LICENSE No. 41537  
 NEW HAMPSHIRE LICENSE No. 15477  
 CONNECTICUT LICENSE No. 20177  
 RHODE ISLAND LICENSE No. 2476  
 MARYLAND LICENSE No. 22553

THIS PLAN TO BE UTILIZED FOR SITE LAYOUT PURPOSES ONLY

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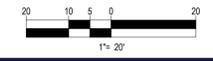
SHEET TITLE:

**SITE & UTILITY PLAN "C"**

SHEET NUMBER:

**11**

REV2 - 09/18/2020



P:\161181\DRAWINGS\PLAN SET\352\DWG - REV (BID PH1)\W161181S57 - LAYOUT - BIDSEPH1 - 11-SITE.C



UTILITY IMPROVEMENTS ARE FROM PHASE 1 BID WORK TO BE CONSTRUCTED SEE 2

SEWER CONNECTION CONNECT TO HOLE BY OTHERS

INSTALL END OF WATER MAIN INSTALL FOR WORK PROVIDED WITH PHASE 1 BID. PROVIDE CAP & MARKER (TYP.)

INSTALL GATE VALVE AT ALL SERVICE LOCATIONS PER CITY STANDARDS (TYP.)

INSTALL JINC COATED DI WATER STUB FOR FUTURE DEVELOPMENT. PROVIDE CAP & MARKER (TYP.)

SCUM HANDHOLE. TO BE CONSTRUCTED BY UTILITY PROVIDER PHASE 2. EXCLUDED FROM PHASE 1 BID WORK

PAD TO BE DEVELOPED BY GALAXY LIFE SCIENCES. GC TO COORDINATE CONSTRUCTION WITH CONTRACTOR, CITY OF WORCESTER AND ALL UTILITY COMPANIES AS APPROPRIATE

GATE VALVE AT WATER CITY STANDARDS

JINC COATED DI WATER STUB FOR FUTURE DEVELOPMENT. PROVIDE CAP & MARKER (TYP.)

CONDUITS STUBBED FOR ELECTRIC SERVICE FOR DEVELOPMENT. TO BE CONSTRUCTED BY UTILITY EXCLUDED FROM PHASE 1 BID WORK

LIMIT OF WORK BY OTHERS

EXIST. PROPERTY LINE (TYP.)

PROP. 12" SANITARY MAIN (TYP.) TO BE CONSTRUCTED BY OTHERS. NOT PART OF PHASE 1 BID WORK

PROP. SMH-204  
RIM = 577.78  
INV. IN = 570.14 (12")  
INV. OUT = 570.04 (12")  
TO BE CONSTRUCTED BY OTHERS. NOT PART OF PHASE 1 BID WORK

EXIST. ROADWAY (TYP.)

PROP. 12" SANITARY MAIN (TYP.) TO BE CONSTRUCTED BY OTHERS. NOT PART OF PHASE 1 BID WORK

PROP. SMH-202  
RIM = 584.45  
INV. IN = 576.45 (12")  
INV. OUT = 576.35 (12")  
TO BE CONSTRUCTED BY OTHERS. NOT PART OF PHASE 1 BID WORK

CUT AND CAP EXIST. SEWER. REFER TO EXISTING CONDITIONS AND DEMO PLAN. TO BE CONSTRUCTED BY OTHERS. NOT PART OF PHASE 1 BID WORK

PROP. SMH-203  
RIM = 585.00  
INV. IN = 575.50 (12")  
INV. OUT = 575.40 (12")  
TO BE CONSTRUCTED BY OTHERS. NOT PART OF PHASE 1 BID WORK

12" ED ART BRK

P:\161181\DRAWINGS\PLAN SETS\CIVIL - REVY (BID PH1)\161181SST - LAYOUT - BIDSEPH1\_12-SITE.DWG

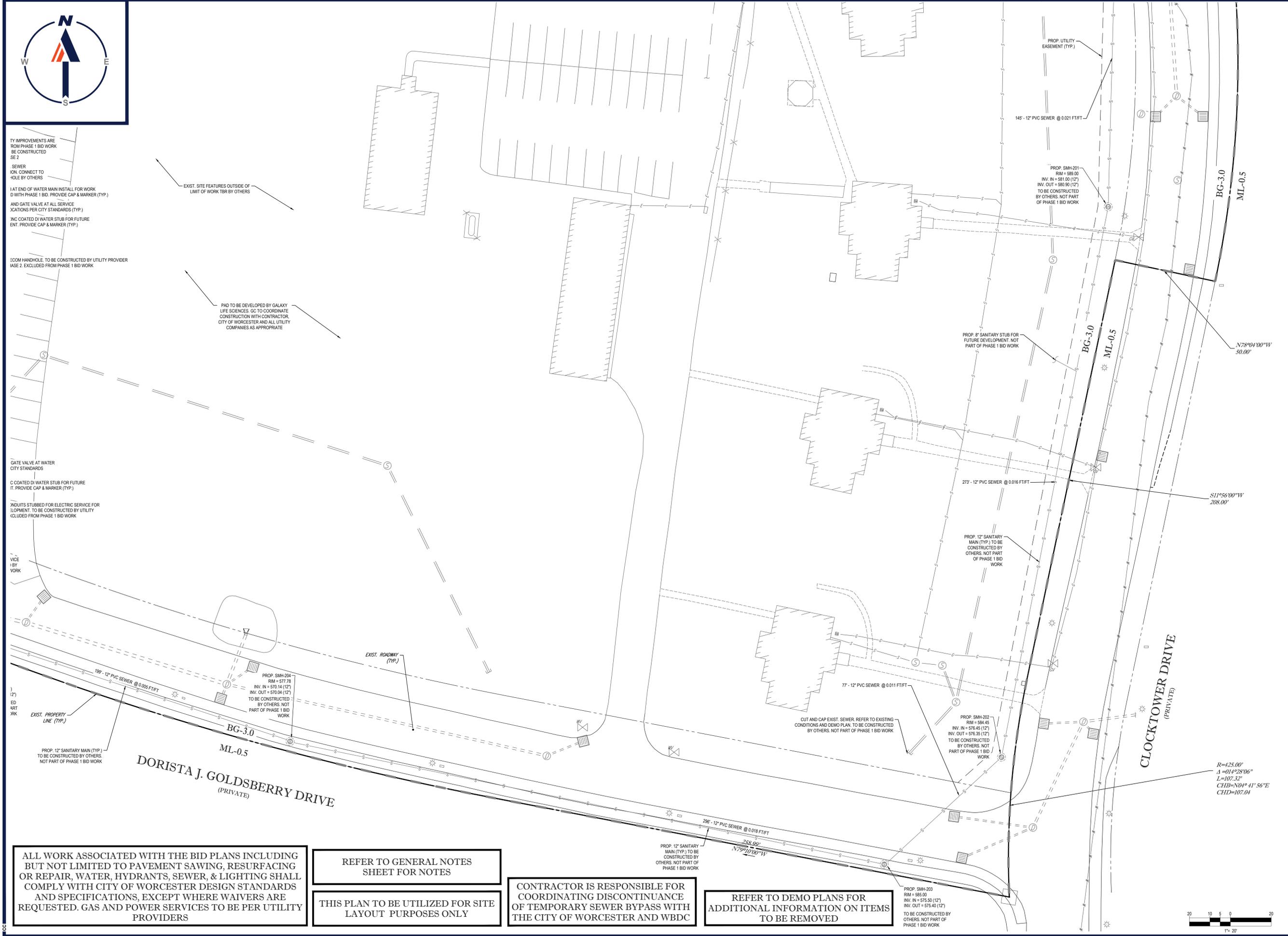
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REFER TO GENERAL NOTES SHEET FOR NOTES

THIS PLAN TO BE UTILIZED FOR SITE LAYOUT PURPOSES ONLY

CONTRACTOR IS RESPONSIBLE FOR COORDINATING DISCONTINUANCE OF TEMPORARY SEWER BYPASS WITH THE CITY OF WORCESTER AND WBDC

REFER TO DEMO PLANS FOR ADDITIONAL INFORMATION ON ITEMS TO BE REMOVED



**BOHLER**  
SITE CIVIL AND CONSULTING ENGINEERING  
PROGRAM MANAGEMENT  
LANDSCAPE ARCHITECTURE  
SUSTAINABLE DESIGN  
PERMITTING SERVICES  
TRANSPORTATION SERVICES

**REVISIONS**

| REV | DATE       | COMMENT     | DRAWN BY | CHECKED BY |
|-----|------------|-------------|----------|------------|
| 1   | 09/03/2020 | ADDENDUM #1 | CMC      | MEM        |
| 2   | 09/18/2020 | ADDENDUM #2 | CMC      | MEM        |

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PROJECT No.: W161181  
DRAWN BY: AJS / CMC  
CHECKED BY: JAK / NEM  
DATE: 09/03/2020  
CAD LD.: W161181SST

**PROJECT:**

**PHASE 1 BID DOCUMENTS**  
FOR  
**HOSPITAL DRIVE SUBDIVISION**  
LOCATION OF SITE  
305 BELMONT STREET  
WORCESTER COUNTY,  
CITY OF WORCESTER,  
MASSACHUSETTS  
MAP #57, BLOCK #4, LOT B1-01,  
LOT B1-02, AND LOT B1-04

**BOHLER**  
352 TURNPIKE ROAD  
SOUTHBOROUGH, MA 01772  
Phone: (508) 480-9900  
Fax: (508) 480-9080  
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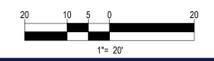
**J.A. KUCICH**  
PROFESSIONAL ENGINEER  
MASSACHUSETTS LICENSE No. 41533  
NEW HAMPSHIRE LICENSE No. 15476  
CONNECTICUT LICENSE No. 20127  
RHODE ISLAND LICENSE No. 2416  
MORRIS LICENSE No. 22453

**SHEET TITLE:**

**SITE & UTILITY PLAN "D"**

**SHEET NUMBER:**  
**12**

REV 2 - 09/18/2020





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 SITE CIVIL AND CONSULTING ENGINEERING  
 PROGRAM MANAGEMENT  
 LANDSCAPE ARCHITECTURE  
 SUSTAINABLE DESIGN  
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 TRANSPORTATION SERVICES

**REVISIONS**

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|-----|------------|-------------|----------|------------|
| 1   | 09/03/2020 | ADDENDUM #1 | CMC      | CMC        |
| 2   | 09/18/2020 | ADDENDUM #2 | CMC      | NEM        |

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PROJECT No.: W161181  
 DRAWN BY: AJS / CMC  
 CHECKED BY: JAK / NEM  
 DATE: 09/03/2020  
 CAD ID: W161181SS7 - EROS

PROJECT:

**PHASE 1 BID DOCUMENTS**  
 FOR  
**HOSPITAL DRIVE SUBDIVISION**  
 LOCATION OF SITE  
 305 BELMONT STREET  
 WORCESTER COUNTY,  
 CITY OF WORCESTER,  
 MASSACHUSETTS  
 MAP #57, BLOCK #4, LOT B1-01,  
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 NEW HAMPSHIRE LICENSE No. 15417  
 CONNECTICUT LICENSE No. 20177  
 RHODE ISLAND LICENSE No. 26716  
 MARYLAND LICENSE No. 22553

CONTRACTOR SHALL INSTALL INLET PROTECTION AT ALL EXISTING DRAIN INLETS AS APPLICABLE

EROSION CONTROL BARRIER SHALL BE SET ALONG LIMIT OF WORK AND ARE OFFSET FOR CLARITY PURPOSES

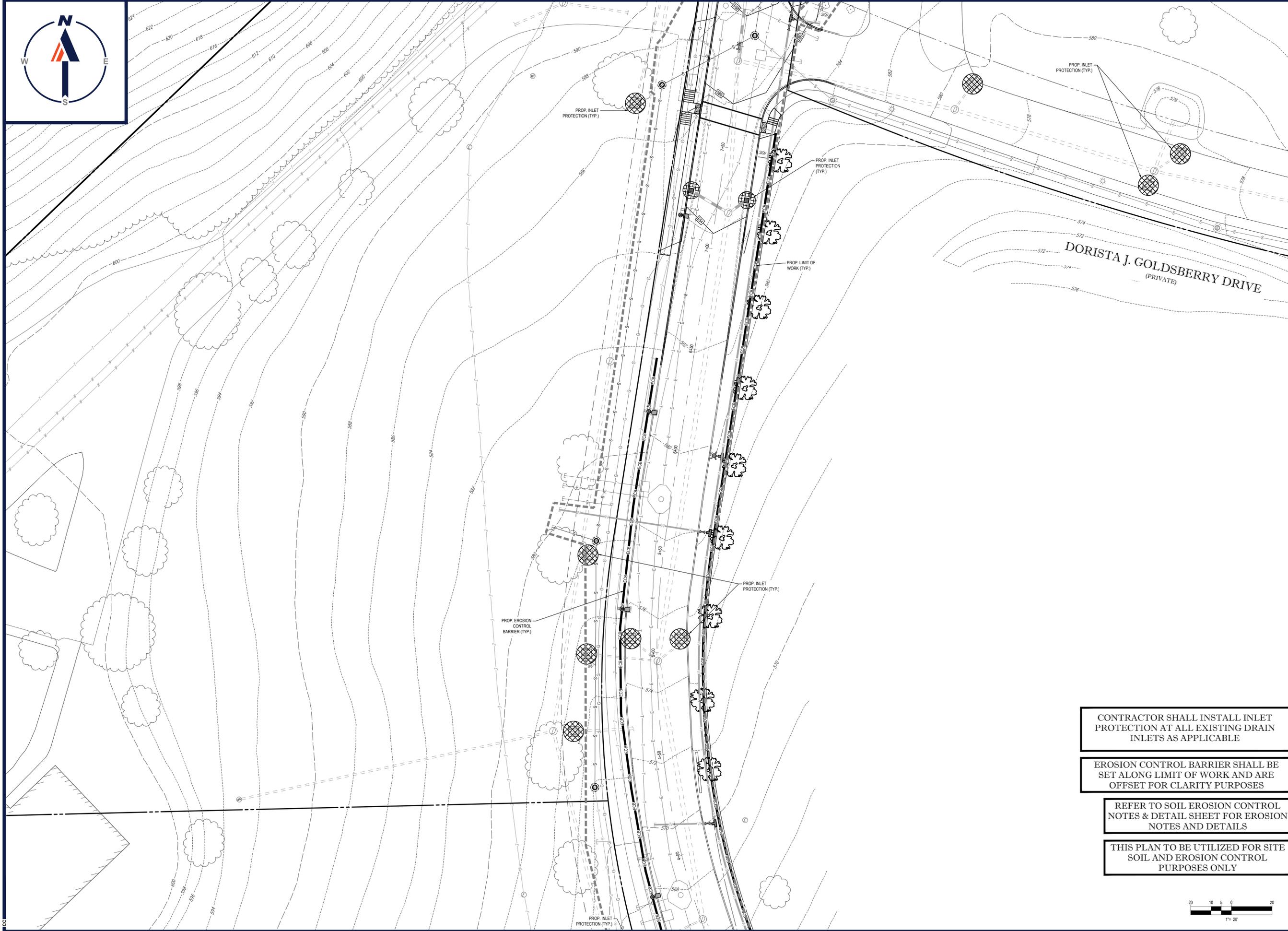
REFER TO SOIL EROSION CONTROL NOTES & DETAIL SHEET FOR EROSION NOTES AND DETAILS

THIS PLAN TO BE UTILIZED FOR SITE SOIL AND EROSION CONTROL PURPOSES ONLY

SHEET TITLE:  
**EROSION AND SEDIMENT CONTROL PLAN A**

SHEET NUMBER:  
**13**





**BOHLER**  
 SITE CIVIL AND CONSULTING ENGINEERING  
 PROGRAM MANAGEMENT  
 LANDSCAPE ARCHITECTURE  
 SUSTAINABLE DESIGN  
 PERMITTING SERVICES  
 TRANSPORTATION SERVICES

**REVISIONS**

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| 1   | 09/03/2020 | ADDENDUM #1 | CMC      | NEM        |
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|              |                   |
|--------------|-------------------|
| PROJECT No.: | W161181           |
| DRAWN BY:    | AJS / CMC         |
| CHECKED BY:  | JAK / NEM         |
| DATE:        | 09/03/2020        |
| CAD ID:      | W161181SS7 - EROS |

PROJECT:  
**PHASE 1 BID DOCUMENTS**  
 FOR  
**HOSPITAL DRIVE SUBDIVISION**  
 LOCATION OF SITE  
 305 BELMONT STREET  
 WORCESTER COUNTY,  
 CITY OF WORCESTER,  
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 MAP #57, BLOCK #4, LOT B1-01,  
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SHEET TITLE:  
**EROSION AND SEDIMENT CONTROL PLAN B**

SHEET NUMBER:  
**14**

REV 2 - 09/18/2020



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**REVISIONS**

| REV | DATE       | COMMENT     | CHECKED BY |
|-----|------------|-------------|------------|
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**PHASE 1 BID DOCUMENTS**

FOR

**HOSPITAL DRIVE SUBDIVISION**

LOCATION OF SITE  
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 MAP #57, BLOCK #4, LOT B1-01,  
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 NEW HAMPSHIRE LICENSE No. 15472  
 CONNECTICUT LICENSE No. 20177  
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 MARYLAND LICENSE No. 22553

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SHEET TITLE:  
**EROSION AND SEDIMENT CONTROL PLAN C**

SHEET NUMBER:  
**15**



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 PROGRAM MANAGEMENT  
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**PHASE 1 BID DOCUMENTS**

FOR

**HOSPITAL DRIVE SUBDIVISION**

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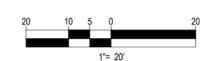
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THIS PLAN TO BE UTILIZED FOR SITE SOIL AND EROSION CONTROL PURPOSES ONLY



SHEET TITLE:  
**EROSION AND SEDIMENT CONTROL PLAN D**

SHEET NUMBER:  
**16**

REV2 - 09/18/2020

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## 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. STRAW WATTLES TO BE REPLACED EVERY 6 MONTHS.
- 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 #6.
- 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 MUST 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 AS 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 PER 1,000 SF).
  - FOLLOWING SEED BED PREPARATION, DITCHES AND BACK SLOPES WILL BE SEED TO A MIXTURE OF 47% CREEPING RED FESCUE, 5% REDTOP, AND 48% TALL FESCUE. THE LAWN AREAS WILL BE SEED TO A PREMIUM TURF MIXTURE OF 44% KENTUCKY BLUEGRASS, 44% CREEPING RED FESCUE, AND 12% PERENNIAL RYEGRASS. SEEDING RATE IS 1.03 LBS PER 1,000 SF LAWN QUALITY SOO 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.
- WETLANDS WILL BE PROTECTED WITHIN WALES AND/OR SILT FENCE INSTALLED AT THE EDGE OF THE WETLAND OR THE BOUNDARY OF WETLAND DISTURBANCE.
- 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   | MULCH   | RATE (1000 SF) |
|--|---|----------------|
| WINDY AREA   | SHREDDED OR CHOPPED CORNSTALKS (ANCHORED)                   | 185-275 POUNDS |
| MODERATE TO HIGH VELOCITY AREAS OR STEEP SLOPES GREATER THAN 3:1 | JUTE MESH OR EXCELSIOR MAT                                  | AS REQUIRED    |
| GREATER THAN 3:1   | (REFER TO GEOTECHNICAL REPORT FOR FINAL DESIGN REQUIREMENT) |                |

\*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 (1/2" SO, 1/2" 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, NETTING FOR SMALL AREAS AND ROAD DITCHES MAY BE PERMITTED.

## EROSION CONTROL NOTES DURING WINTER CONSTRUCTION

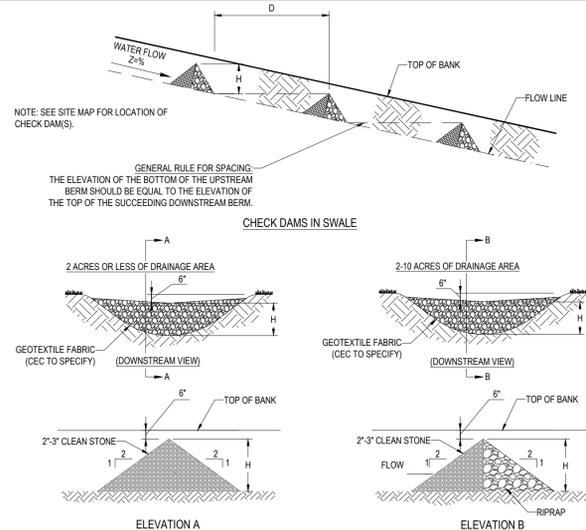
- WINTER CONSTRUCTION PERIOD: NOVEMBER 1 THROUGH APRIL 15.
- EXPOSED AREA SHOULD BE LIMITED TO THAT WHICH CAN BE MULCHED IN ONE DAY PRIOR TO ANY SNOW EVENT.
- CONTINUATION OF EARTHWORK OPERATION ON ADDITIONAL AREAS SHALL NOT BEGIN UNTIL THE EXPOSED SOIL SURFACE ON THE AREA BEING WORKED HAS BEEN STABILIZED 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 MULCH AT A RATE OF 100 LB PER 1,000 SQUARE FEET (WITH OR WITHOUT SEEDING) OR DORMANT SEED, MULCHED AND ADEQUATELY ANCHORED BY AN APPROVED ANCHORING TECHNIQUE.
- BETWEEN THE DATES OF OCTOBER 1ST AND APRIL 15TH, LOAM OR SEED WILL NOT BE REQUIRED. DURING PERIODS OF ABOVE FREEZING TEMPERATURES THE SLOPES SHALL BE FINE GRADED AND EITHER PROTECTED WITH MULCH OR TEMPORARILY SEED 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 SEED 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 BE 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 WOOD CELLULOSE FIBER.
  - 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 OF EACH WORKING DAY.
- DURING THE WINTER CONSTRUCTION PERIOD ALL SNOW SHALL BE REMOVED FROM AREAS OF SEEDING AND MULCHING PRIOR TO PLACEMENT.
- STOCKPILING OF MATERIALS (DIRT, WOOD, CONSTRUCTION MATERIALS, ETC.) MUST REMAIN COVERED AT ALL TIMES TO MINIMIZE ANY DUST PROBLEMS THAT MAY OCCUR WITH ADJACENT PROPERTIES AND TO PROVIDE MAXIMUM PROTECTION AGAINST EROSION RUNOFF.
- EXISTING CATCH BASIN STRUCTURES SHALL BE PROTECTED UNTIL SUCH TIME AS THEY ARE REMOVED.

## CONSTRUCTION SEQUENCE

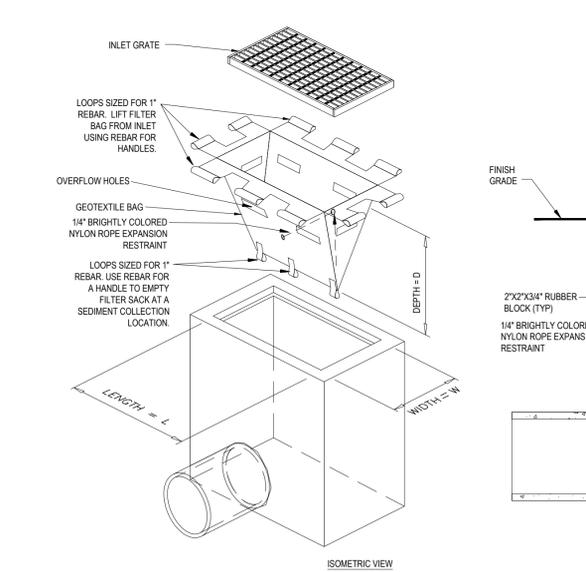
- THE FOLLOWING CONSTRUCTION SEQUENCE IS RECOMMENDED:
- INSTALLATION OF STABILIZED CONSTRUCTION ENTRANCE/EXIT (AS SHOWN)
  - INSTALLATION OF EROSION CONTROL BARRIER (STRAW WATTLES AND SILT FENCE) (AS SHOWN)
  - DEMOLITION OF EXISTING SITE STRUCTURES (SEE DEMOLITION PLAN)
  - DEMOLITION OF EXISTING SITE PAVEMENT AND AMENITIES
  - CLEARING AND GRUBBING
  - INSTALLATION OF TEMPORARY SWALES AND SEDIMENT BASINS
  - EARTHWORK AND EXCAVATION/FILLING AS NECESSARY
  - CONSTRUCTION OF UTILITIES
  - STABILIZE PERMANENT LAWN AREAS AND SLOPES WITH TEMPORARY SEEDING
  - INSTALLATION OF INLET PROTECTION OF ON-SITE UTILITIES (AS SHOWN)
  - CONSTRUCTION OF BUILDINGS
  - CONSTRUCTION OF ALL CURBING AND ROADWAYS
  - 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.
  - REMOVAL OF THE TEMPORARY SEDIMENT BASINS
  - LANDSCAPING PER LANDSCAPING PLAN
  - REMOVE EROSION CONTROL AS DISTURBED AREAS BECOME STABILIZED TO 70% STABILIZATION OR GREATER. REFER TO ORDER OF CONDITIONS ISSUED BY CITY OF FRAMINGHAM CONSERVATION COMMISSION.

## CITY OF WORCESTER NOTES:

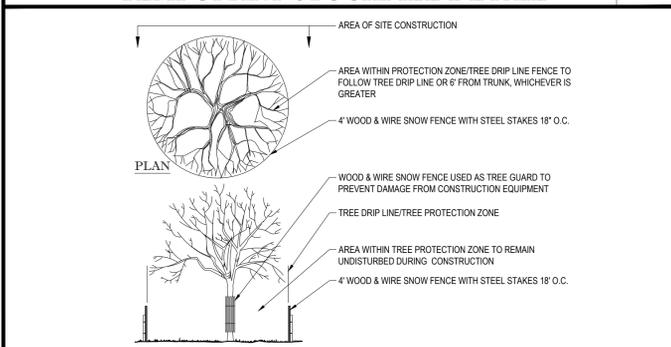
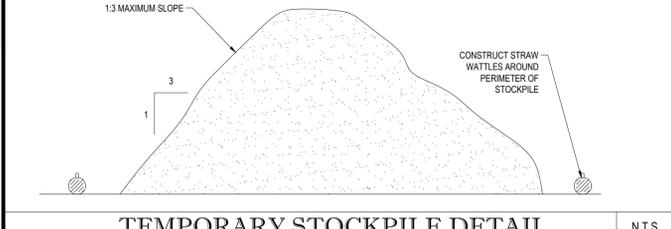
- ALL TREE AND STUMP REMOVAL SHALL BE IN ACCORDANCE WITH THE ASIAN LONGHORNED BEETLE PROGRAM REQUIREMENTS AND ALL NEW TREE AND SHRUB PLANTINGS SHALL BE ASIAN LONGHORNED BEETLE AND EMERALD ASH BORER RESISTANT. THE APPLICANT WILL PROVIDE AT NO COST TO THE CITY, ALL FACILITIES SHOWN ON THE PLAN INCLUDING BUT NOT LIMITED TO ROADWAYS, CURBS, BOUNDS, DRAINAGE SYSTEMS, SANITARY SEWER SYSTEMS, UTILITIES, STREET LIGHTS, AND EARTHWORKS, EXCEPT AS OTHERWISE NOTED ON THE PLAN.
- PRIOR TO AND CONTINUING DURING ALL CONSTRUCTION ACTIVITIES, APPROPRIATE SOIL EROSION AND SEDIMENTATION CONTROL MEASURES INCLUDING WALES AND SILT FENCES, SHALL BE INSTALLED AND MAINTAINED SUBJECT TO THE OVERSIGHT AND DIRECTION OF THE COMMISSIONER OF INSPECTION SERVICES.
- A PRE-CONSTRUCTION CONFERENCE WITH THE CITY OF WORCESTER'S DEPARTMENT OF PUBLIC WORKS & PARKS' DIVISION OF ENGINEERING SHALL BE HELD PRIOR TO ANY CONSTRUCTION.
- ALL WORK SHALL CONFORM TO THE CITY OF WORCESTER'S SUBDIVISION RULES AND REGULATIONS, ZONING ORDINANCE, PLANNING BOARD DECISION AND CONDITIONS OF APPROVAL, AND TO THE STANDARDS CONTAINED IN THE CITY OF WORCESTER, DEPARTMENT OF PUBLIC WORKS & PARKS, ENGINEERING DIVISION, CONSTRUCTION MANAGEMENT SECTION, STANDARD SPECIFICATIONS & DETAILS, MOST RECENT EDITION.



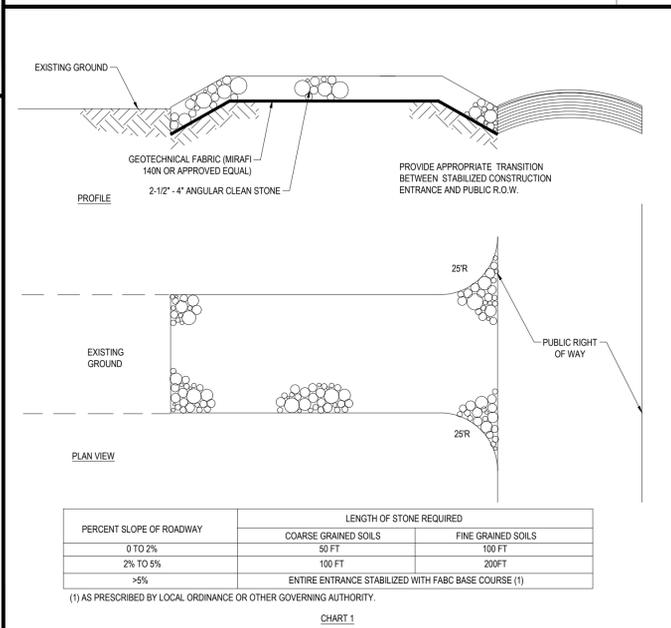
TEMPORARY STONE CHECK DAM N.T.S.



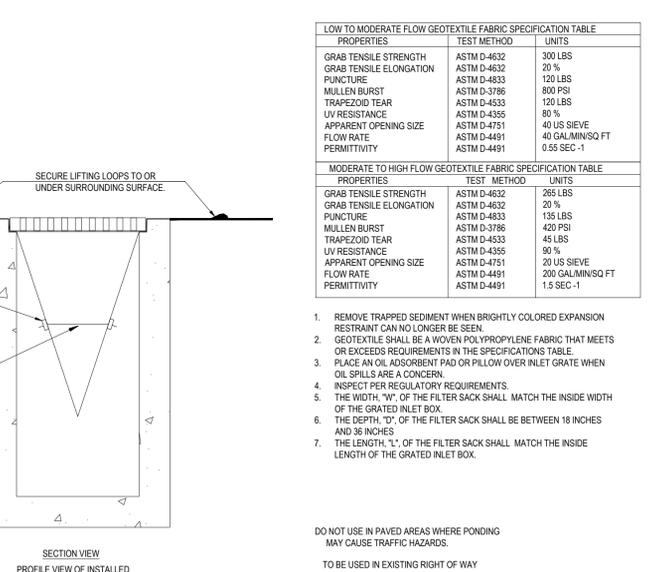
FILTER SACKS (GRATED INLETS) N.T.S.



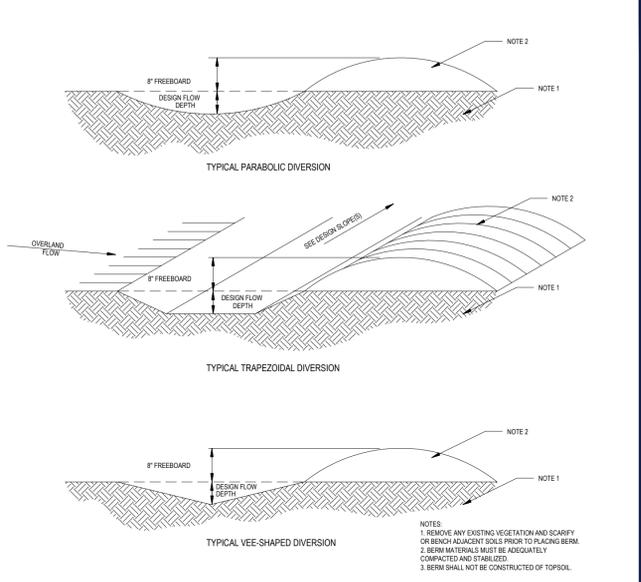
TREE PROTECTION DURING CONSTRUCTION N.T.S.



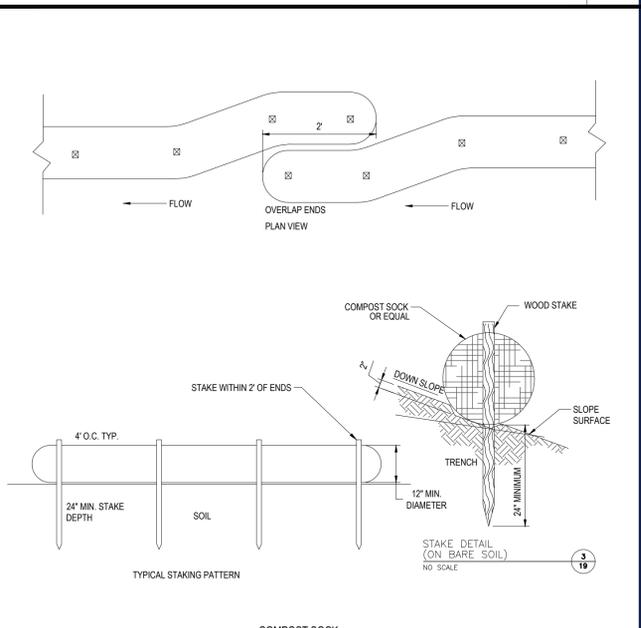
STABILIZED CONSTRUCTION ENTRANCE N.T.S.



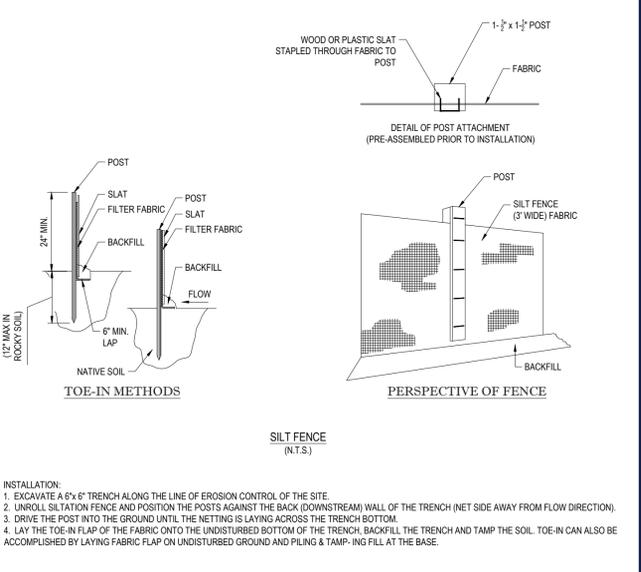
EROSION CONTROL BARRIER (ECB) DETAIL N.T.S.



DIVERSION BERM / SWALE N.T.S.



TEMPORARY STONE CHECK DAM N.T.S.



FILTER SACKS (GRATED INLETS) N.T.S.

**BOHLER**  
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PROGRAM MANAGEMENT  
LANDSCAPE ARCHITECTURE  
SUSTAINABLE DESIGN  
PERMITTING SERVICES  
TRANSPORTATION SERVICES

| REVISIONS |            |             |            |          |
|-----------|------------|-------------|------------|----------|
| REV       | DATE       | COMMENT     | CHECKED BY | DRAWN BY |
| 1         | 09/03/2020 | ADDENDUM #1 | CMC        | MEM      |
| 2         | 09/18/2020 | ADDENDUM #2 | CMC        | MEM      |

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PROJECT No.: W161181  
DRAWN BY: AJS / CMC  
CHECKED BY: JAK / MEM  
DATE: 09/03/2020  
CAD ID: W161181SS7 - EROS

PROJECT:

## PHASE 1 BID DOCUMENTS

## HOSPITAL DRIVE SUBDIVISION

LOCATION OF SITE  
305 BELMONT STREET  
WORCESTER COUNTY,  
CITY OF WORCESTER,  
MASSACHUSETTS  
MAP #57, BLOCK #4, LOT B1-01,  
LOT B1-02, AND LOT B1-04

**BOHLER**  
352 TURNPIKE ROAD  
SOUTHBOROUGH, MA 01772  
Phone: (508) 480-9900  
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www.BohlerEngineering.com

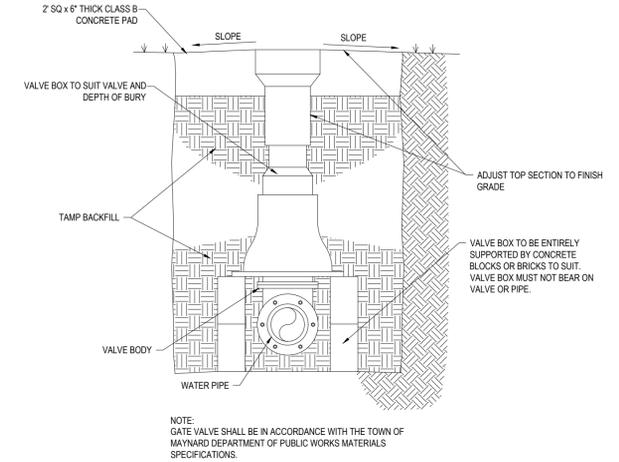
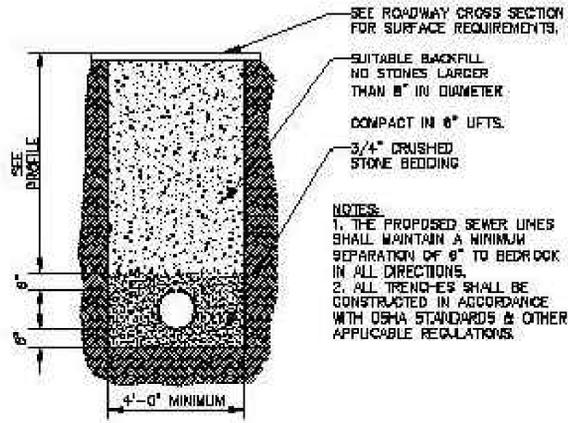
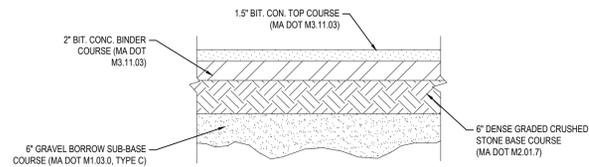
**J.A. KUCICH**  
PROFESSIONAL ENGINEER  
MASSACHUSETTS LICENSE No. 41552  
NEW HAMPSHIRE LICENSE No. 15476  
CONNECTICUT LICENSE No. 20177  
RHODE ISLAND LICENSE No. 26716  
MORRIS LICENSE No. 22550

## SOIL EROSION CONTROL NOTES & DETAILS

SHEET NUMBER:

17

REV 2 - 09/18/2020



NOT USED

N.T.S.

TYPICAL PAVEMENT SECTION

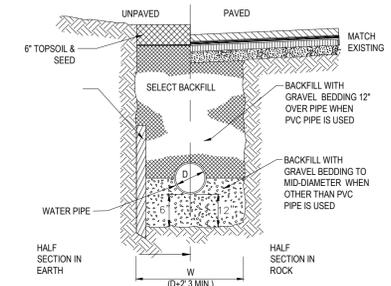
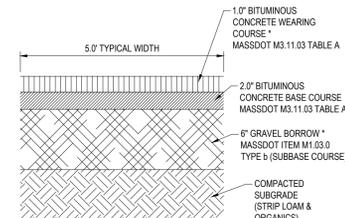
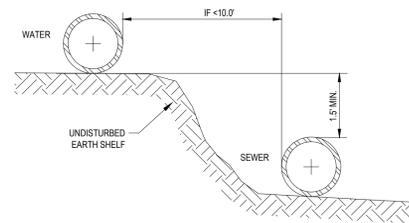
N.T.S.

CITY OF WORCESTER TYPICAL SEWER MAIN TRENCH

N.T.S.

GATE VALVE

N.T.S.



NOT USED

N.T.S.

WATER/SEWER SEPARATION DETAIL

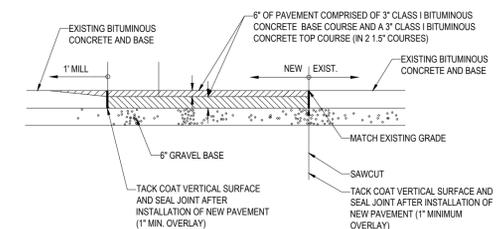
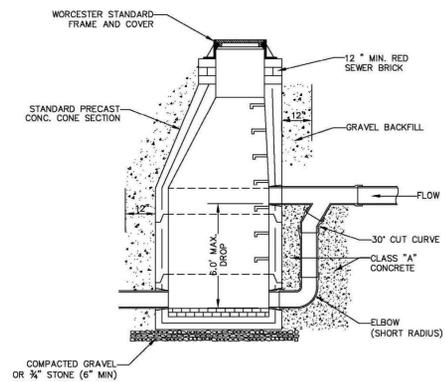
N.T.S.

BITUMINOUS CONCRETE SIDEWALK PAVEMENT SECTION

N.T.S.

TYPICAL WATER TRENCH

N.T.S.



NOT USED

N.T.S.

NOT USED

N.T.S.

CITY OF WORCESTER TYPICAL SEWER DROP MANHOLE

N.T.S.

ROADWAY PATCHING DETAIL

N.T.S.

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 SITE CIVIL AND CONSULTING ENGINEERING  
 PROGRAM MANAGEMENT  
 LANDSCAPE ARCHITECTURE  
 SUSTAINABLE DESIGN  
 PERMITTING SERVICES  
 TRANSPORTATION SERVICES

**REVISIONS**

| REV | DATE       | COMMENT     | DRAWN BY | CHECKED BY |
|-----|------------|-------------|----------|------------|
| 1   | 09/03/2020 | ADDENDUM #1 | CMC      | NEM        |
| 2   | 09/18/2020 | ADDENDUM #2 | CMC      | NEM        |

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PROJECT No.: W161181  
 DRAWN BY: AJS / CMC  
 CHECKED BY: JAK / NEM  
 DATE: 09/03/2020  
 CAD I.D.: W161181SS7 - DETAILS

**PHASE 1 BID DOCUMENTS**

FOR  
**HOSPITAL DRIVE SUBDIVISION**

LOCATION OF SITE  
 305 BELMONT STREET  
 WORCESTER COUNTY,  
 CITY OF WORCESTER,  
 MASSACHUSETTS  
 MAP #57, BLOCK #4, LOT B1-01,  
 LOT B1-02, AND LOT B1-04

**BOHLER**

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 SOUTHBOROUGH, MA 01772  
 Phone: (508) 480-9900  
 Fax: (508) 480-9080  
[www.BohlerEngineering.com](http://www.BohlerEngineering.com)

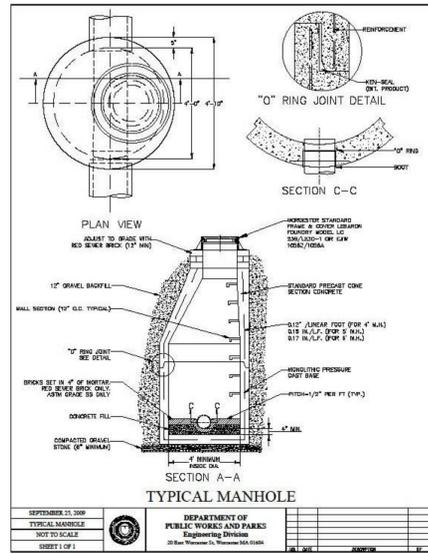
**J.A. KUCICH**  
 PROFESSIONAL ENGINEER  
 MASSACHUSETTS LICENSE No. 41537  
 NEW HAMPSHIRE LICENSE No. 15470  
 CONNECTICUT LICENSE No. 20177  
 RHODE ISLAND LICENSE No. 20116  
 MARYLAND LICENSE No. 22553

SHEET TITLE:  
**CONSTRUCTION DETAIL SHEET**

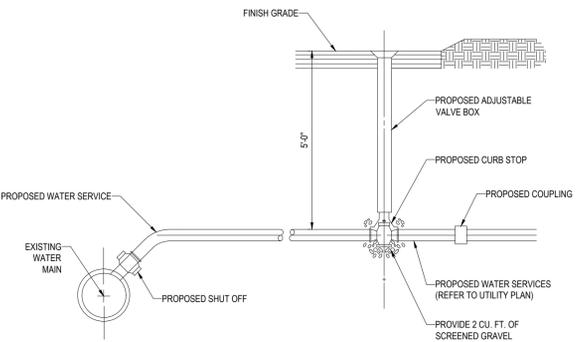
SHEET NUMBER:  
**18**

REV2 - 09/18/2020

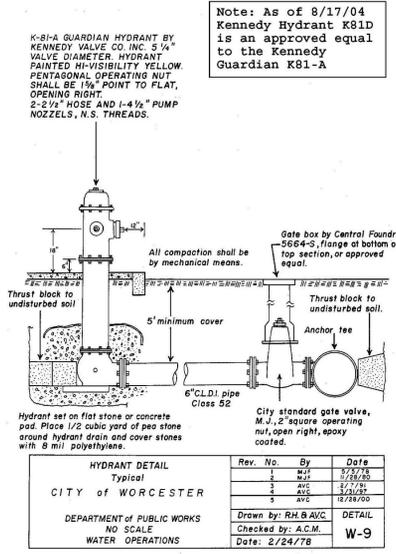
P:\161181\DRAWINGS\PLAN SETS\CVL - REVY (BID PH1)\W161181SS7 - DETAILS - LAYOUT\BIDSETPH1\_18.DETAILS



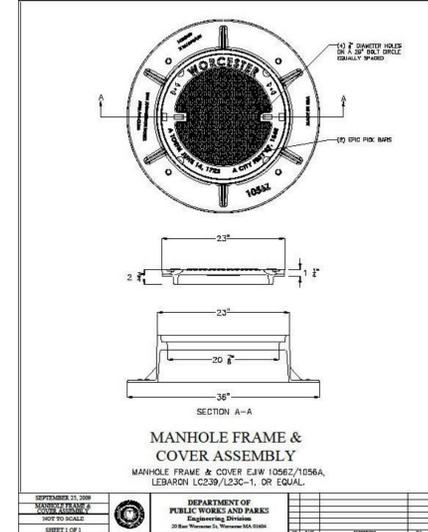
CITY OF WORCESTER  
TYPICAL MANHOLE DETAIL



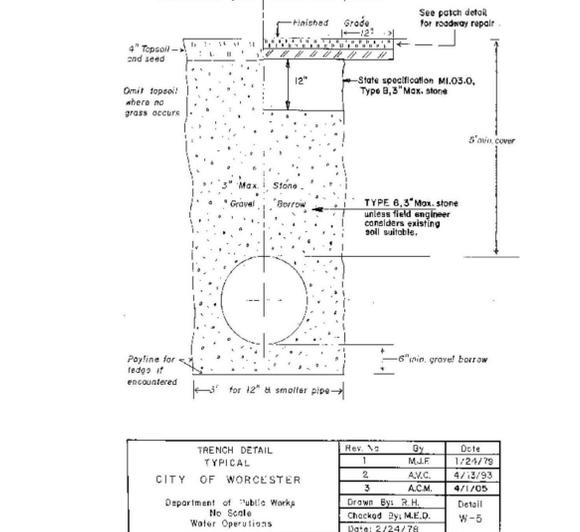
SERVICE CONNECTION DETAIL



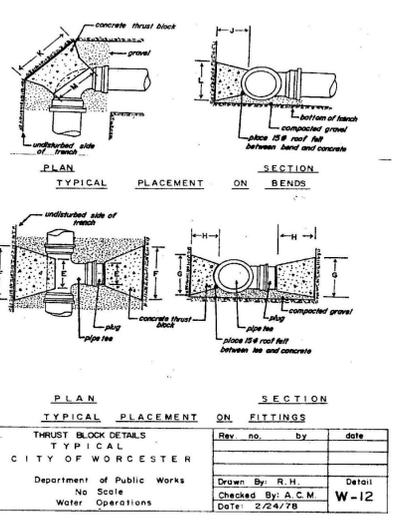
CITY OF WORCESTER  
HYDRANT DETAIL



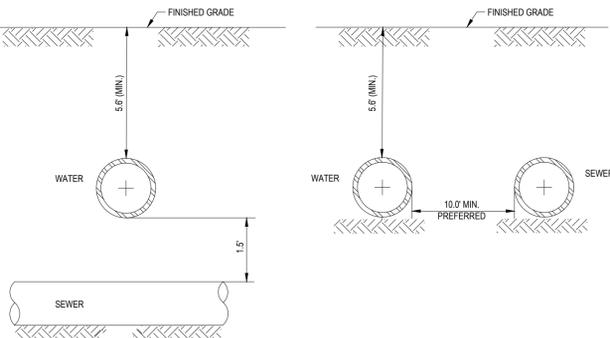
CITY OF WORCESTER MANHOLE  
FRAME AND COVER DETAIL



CITY OF WORCESTER  
TYPICAL TRENCH DETAIL



CITY OF WORCESTER  
THRUST BLOCK DETAIL



NOTE: 10' HORIZONTAL SEPARATION AND 15' VERTICAL SEPARATION SHALL BE PROVIDED BETWEEN WATER AND SEWER AS DEPICTED IN THIS DETAIL OR SEWER SHALL BE ENCASED IN CONCRETE (SEE TOWN OF WESTBOROUGH SEWER AND WATER CROSSING DETAIL THIS SHEET) IN SECTIONS WHERE SEPARATIONS SHALL NOT BE ACHIEVED.

WATER/SEWER CROSSING DETAIL

**BOHLER**  
SITE CIVIL AND CONSULTING ENGINEERING  
PROGRAM MANAGEMENT  
LANDSCAPE ARCHITECTURE  
SUSTAINABLE ARCHITECTURE  
PERMITTING SERVICES  
TRANSPORTATION SERVICES

**REVISIONS**

| REV | DATE       | COMMENT     | DRAWN BY | CHECKED BY |
|-----|------------|-------------|----------|------------|
| 1   | 09/03/2020 | ADDENDUM #1 | CMC      | MEM        |
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PROJECT No.: W161181  
DRAWN BY: AJS / CMC  
CHECKED BY: JAK / NEM  
DATE: 09/03/2020  
CAD I.D.: W161181SS7 - DETAILS

**PHASE 1 BID DOCUMENTS**

FOR  
**HOSPITAL DRIVE SUBDIVISION**

LOCATION OF SITE  
305 BELMONT STREET  
WORCESTER COUNTY,  
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MASSACHUSETTS  
MAP #57, BLOCK #4, LOT B1-01,  
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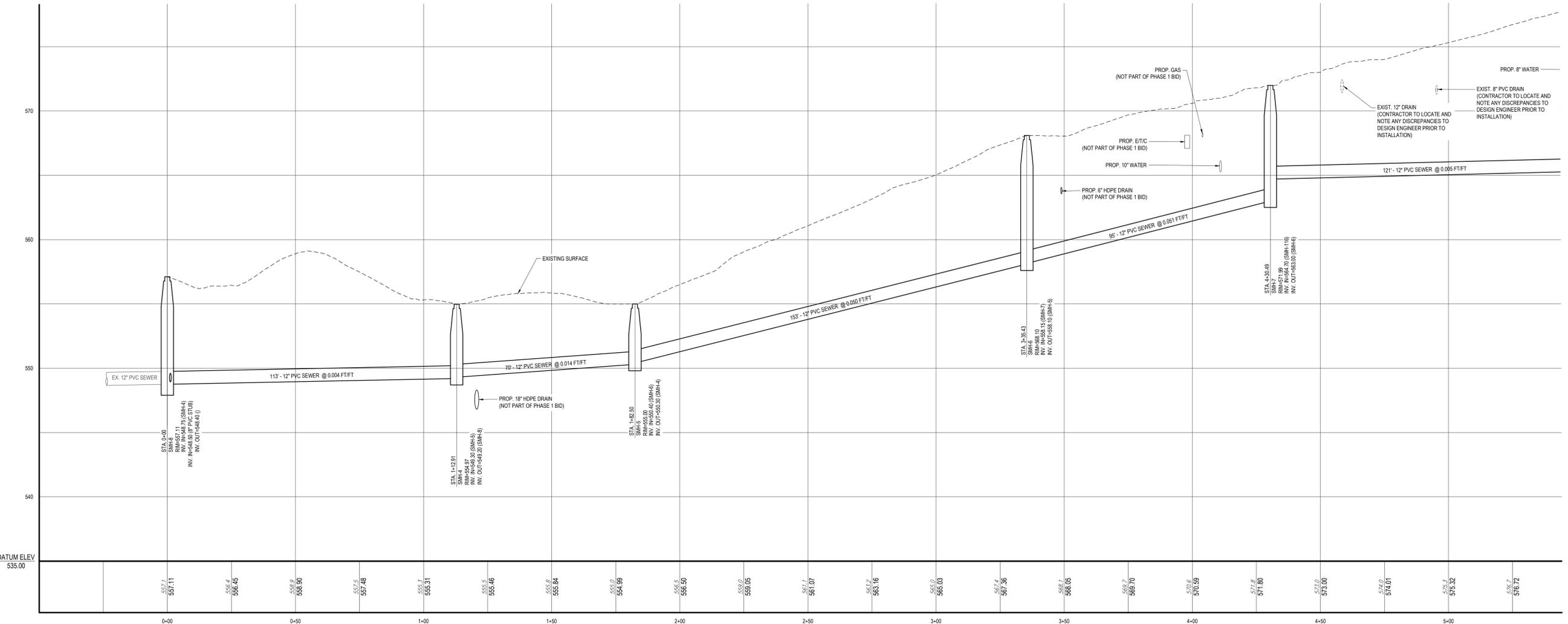
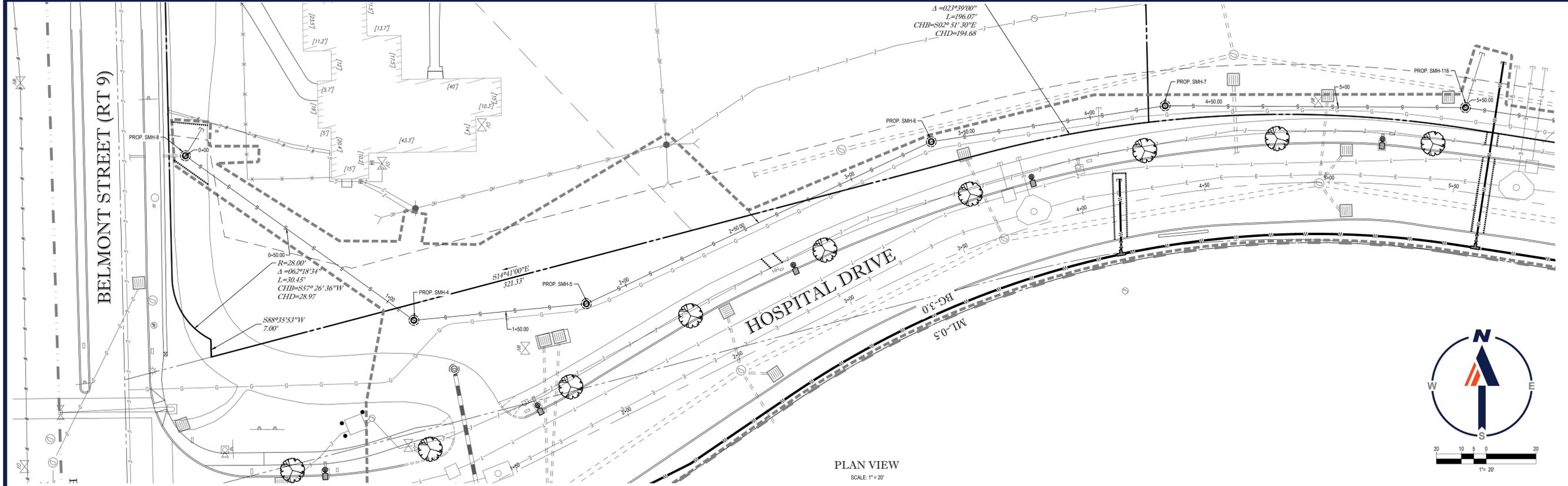
**J.A. KUCICH**  
PROFESSIONAL ENGINEER  
MASSACHUSETTS LICENSE No. 41537  
NEW HAMPSHIRE LICENSE No. 15470  
CONNECTICUT LICENSE No. 20127  
RHODE ISLAND LICENSE No. 2016  
MORRIS LICENSE No. 22853

SHEET TITLE:  
**CONSTRUCTION DETAIL SHEET**

SHEET NUMBER:  
**19**

REV2 - 09/18/2020

P:\0161181\DRAWINGS\PLAN SET\3\CIVIL - REVY (BID PH1)\W161181SS7 - DETAILS - LAYOUT: BIDSETPH1\_19.DETAILS



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SITE CIVIL AND CONSULTING ENGINEERING  
PROGRAM MANAGEMENT  
LANDSCAPE ARCHITECTURE  
SUSTAINABLE DESIGN  
PERMITTING SERVICES  
TRANSPORTATION SERVICES

**REVISIONS**

| REV | DATE       | COMMENT     | DRAWN BY | CHECKED BY |
|-----|------------|-------------|----------|------------|
| 1   | 09/03/2020 | ADDENDUM #1 | CMC      | MEM        |
| 2   | 09/18/2020 | ADDENDUM #2 | CMC      | MEM        |

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PROJECT No.: W161181  
DRAWN BY: AJC / CMC  
CHECKED BY: JAK / NEM  
DATE: 09/03/2020  
CAD I.D.: W161181S57

**PHASE 1 BID DOCUMENTS**

FOR

**HOSPITAL DRIVE SUBDIVISION**

LOCATION OF SITE  
305 BELMONT STREET  
WORCESTER COUNTY,  
CITY OF WORCESTER,  
MASSACHUSETTS  
MAP #57, BLOCK #4, LOT B1-01,  
LOT B1-02, AND LOT B1-04

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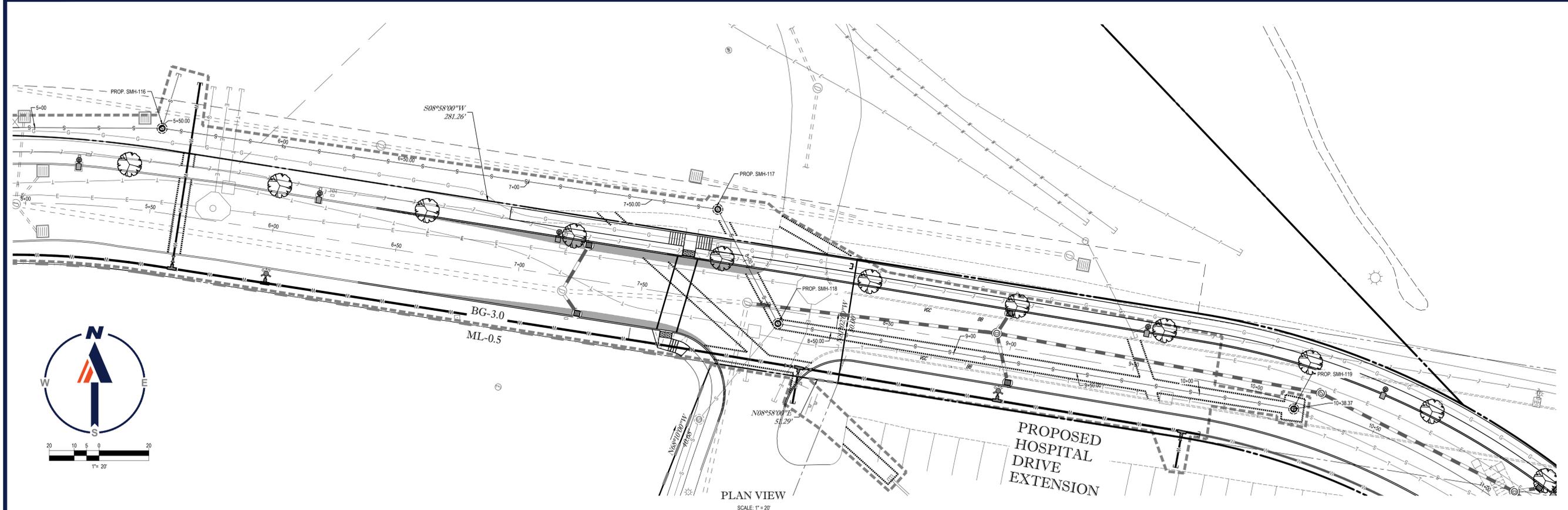
**J.A. KUCICH**

PROFESSIONAL ENGINEER  
MASSACHUSETTS LICENSE No. 41530  
NEW HAMPSHIRE LICENSE No. 15470  
CONNECTICUT LICENSE No. 20127  
RHODE ISLAND LICENSE No. 24716  
MORRIS LICENSE No. 22553

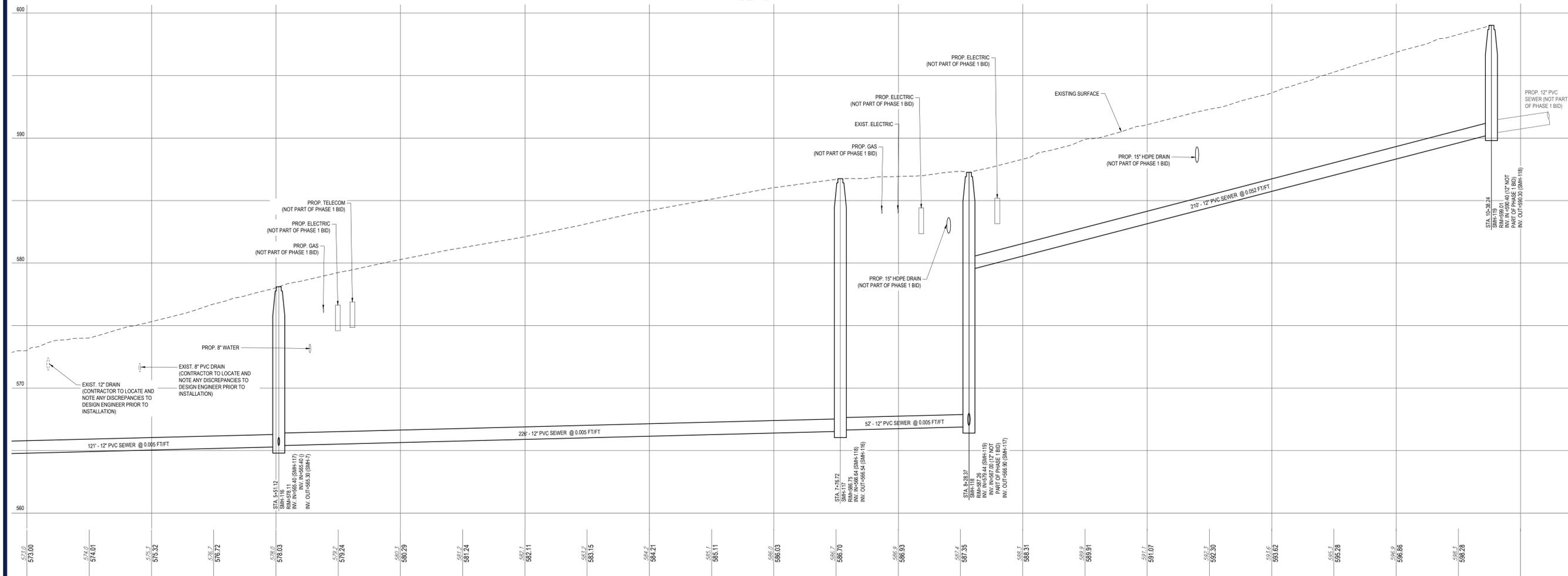
SHEET TITLE:  
**SEWER MAIN PLAN & PROFILE**

SHEET NUMBER:  
**20**

P:\B\161181\DRAWINGS\PLAN SETS\CIVIL - REVY (BID PH1)\W161181S57 - LAYOUT - BIDSEPH1\_20-PROF



PLAN VIEW  
SCALE: 1" = 20'



Sewer Profile (Ph1 Bid)  
SCALE: 1" = 20' HORIZONTAL  
1" = 4' VERTICAL

**BOHLER**  
SITE CIVIL AND CONSULTING ENGINEERING  
PROGRAM MANAGEMENT  
LANDSCAPE ARCHITECTURE  
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**REVISIONS**

| REV | DATE       | COMMENT     | DRAWN BY | CHECKED BY |
|-----|------------|-------------|----------|------------|
| 1   | 09/03/2020 | ADDENDUM #1 | CMC      | MEM        |
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PROJECT No.: W161181  
DRAWN BY: AJS / CMC  
CHECKED BY: JAK / MEM  
DATE: 09/03/2020  
CAD I.D.: W161181S57

**PHASE 1 BID DOCUMENTS**

FOR  
**HOSPITAL DRIVE SUBDIVISION**  
LOCATION OF SITE  
305 BELMONT STREET  
WORCESTER COUNTY,  
CITY OF WORCESTER,  
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MAP #57, BLOCK #4, LOT B1-01,  
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MASSACHUSETTS LICENSE No. 41530  
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CONNECTICUT LICENSE No. 20127  
RHODE ISLAND LICENSE No. 2416  
MORRIS LICENSE No. 22453

**SEWER MAIN PLAN & PROFILE**

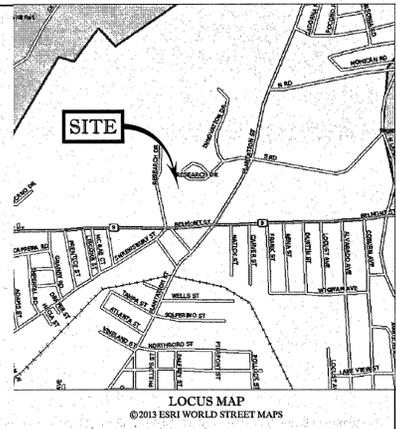
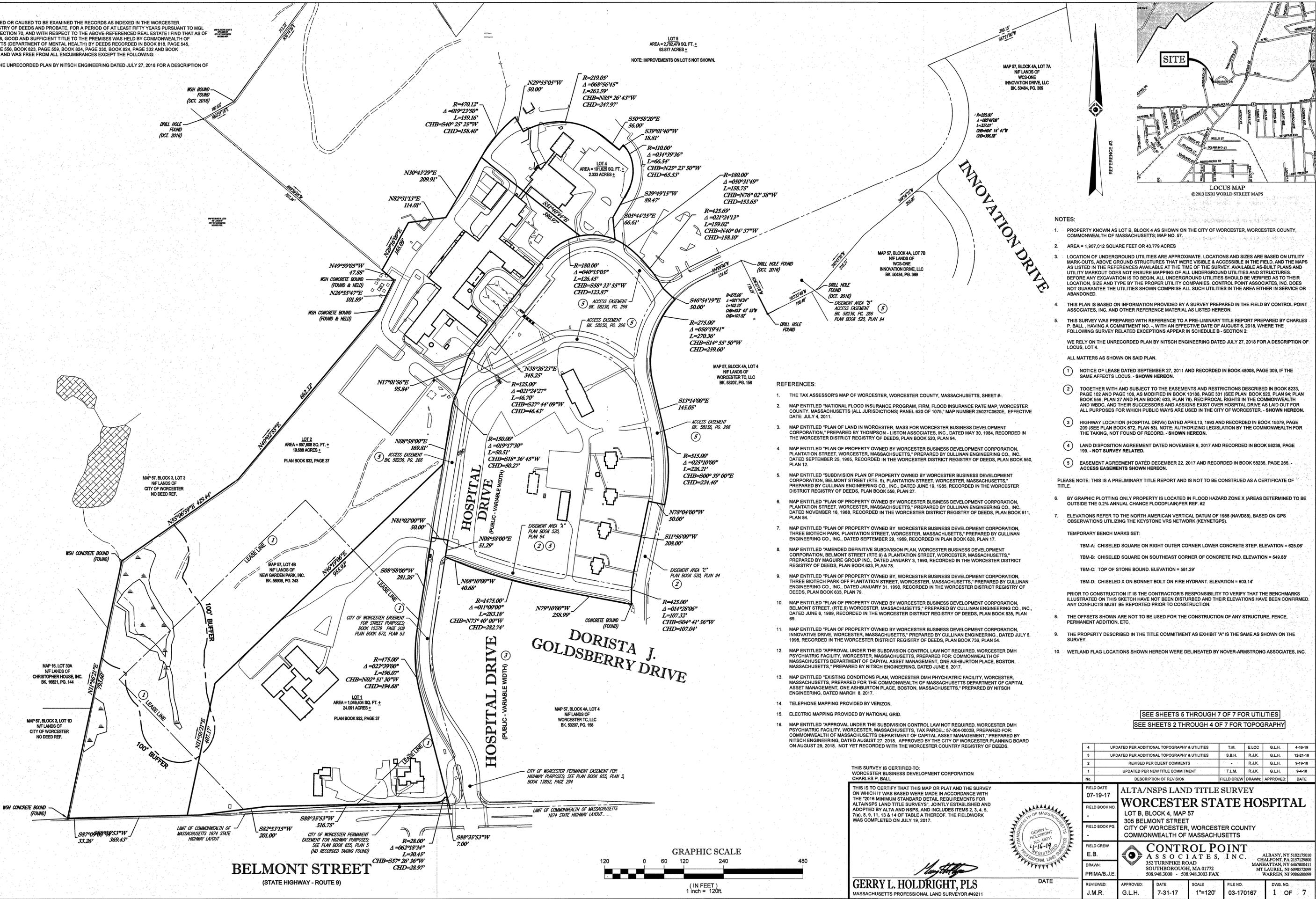
SHEET NUMBER:  
**21**

P:\16181\DRAWINGS\PLAN SET\CDWL - REV1 (BID PH1)\W161181S57 - LAYOUT: BIDSEPH1\_21.PDF

EXHIBIT A

I HAVE EXAMINED OR CAUSED TO BE EXAMINED THE RECORDS AS INDEXED IN THE WORCESTER COUNTY REGISTRY OF DEEDS AND PROBATE...

WE RELY ON THE UNRECORDED PLAN BY NITSCH ENGINEERING DATED JULY 27, 2018 FOR A DESCRIPTION OF LOCUS, LOT 4.

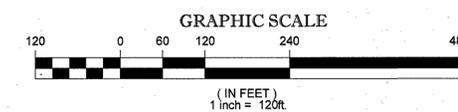


- NOTES: 1. PROPERTY KNOWN AS LOT B, BLOCK 4 AS SHOWN ON THE CITY OF WORCESTER, WORCESTER COUNTY, COMMONWEALTH OF MASSACHUSETTS, MAP NO. 57.

- REFERENCES: 1. THE TAX ASSESSOR'S MAP OF WORCESTER, WORCESTER COUNTY, MASSACHUSETTS, SHEET #.

Table with 4 columns: No., Description of Revision, Field Crew, Date. Includes a table for 'ALTA/NSPS LAND TITLE SURVEY' with columns for Field Date, Field Book No., Field Book Pg., Field Crew, Drawn, Reviewed, Approved, Date, Scale, File No., Dwg. No.

THIS SURVEY IS CERTIFIED TO: WORCESTER BUSINESS DEVELOPMENT CORPORATION CHARLES P. BALL



BELMONT STREET (STATE HIGHWAY - ROUTE 9)

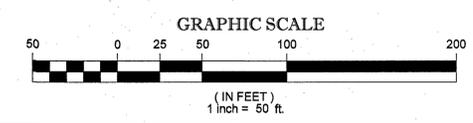
DORISTA J. GOLDSBERRY DRIVE

HOSPITAL DRIVE (PUBLIC - VARIABLE WIDTH)

INNOVATION DRIVE



- LEGEND**
- 124 --- EXISTING CONTOUR
  - 125 --- EXISTING SPOT ELEVATION
  - 123.45 x EXISTING TOP OF CURB ELEVATION
  - 123.45 x EXISTING TOP OF WALL ELEVATION
  - 122.85 x EXISTING GUTTER ELEVATION
  - 123.45 x EXISTING TOP OF WALL ELEVATION
  - 122.85 x EXISTING BOTTOM OF WALL ELEVATION
  - 123.45 x EXISTING FINISHED FLOOR ELEVATION
  - 123.45 x EXISTING DOOR SILL ELEVATION
  - HYDRANT
  - WATER VALVE
  - PRESSURE INDICATOR VALVE
  - UNKNOWN VALVE
  - GAS VALVE
  - GAS BOX
  - GAS METER
  - ELECTRIC METER
  - OVERHEAD WIRES
  - G --- APPROX. LOC. UNDERGROUND GAS LINE
  - E --- APPROX. LOC. UNDERGROUND ELECTRIC LINE
  - E/T --- APPROX. LOC. UNDERGROUND ELECTRIC & TELEPHONE LINE
  - F --- APPROX. LOC. UNDERGROUND FIBER OPTIC LINE
  - C --- APPROX. LOC. UNDERGROUND CABLE LINE
  - D --- APPROX. LOC. UNDERGROUND DRAINAGE LINE
  - S --- APPROX. LOC. UNDERGROUND SANITARY / SEWER LINE
  - T --- APPROX. LOC. UNDERGROUND TELEPHONE LINE
  - W --- APPROX. LOC. UNDERGROUND WATER LINE
  - UP --- UTILITY POLE
  - UP/LP --- UTILITY POLE/LIGHT POLE
  - GW --- GUY WIRE
  - SL --- STREET LIGHT
  - TS --- TRAFFIC SIGNAL POLE
  - TL --- TRAFFIC SIGNAL
  - AL --- AREA LIGHT
  - C/O --- CLEAN OUT
  - SIGN
  - MAIL BOX
  - BOLLARD
  - U-BOLLARD
  - MGR --- METAL GUIDE RAIL
  - PM --- PARKING METER
  - POST
  - CBWH --- CONC. BOUND W/DRILL HOLE
  - MON --- MONUMENT
  - DHF --- DRILL HOLE FOUND
  - EL --- ELEVATION
  - INV --- INVERT ELEVATION
  - GR --- GRATE ELEVATION
  - BOS --- BOTTOM OF STRUCTURE
  - PAINTED ARROWS
  - BB --- BELGIUM BLOCK CURB
  - CLF --- CHAIN LINK FENCE
  - DC --- DEPRESSED CURB
  - EDC --- EDGE OF CONCRETE
  - EDP --- EDGE OF PAVEMENT
  - GL --- GUTTER LINE
  - LSA --- LANDSCAPED AREA
  - MC --- METAL COVER
  - RRT WALL --- RAILROAD TIE WALL
  - (TYP) --- TYPICAL
  - GMH --- GAS MANHOLE
  - DMH --- DRAINAGE/STORM MANHOLE
  - EMH --- ELECTRIC MANHOLE
  - FCMH --- FIBER OPTIC MANHOLE
  - SMH --- SANITARY/SEWER MANHOLE
  - TMH --- TELEPHONE MANHOLE
  - MH --- UNKNOWN MANHOLE
  - WMH --- WATER MANHOLE
  - CB --- CATCH BASIN OR INLET
  - FLOW --- FLOW DIRECTION
  - DEL --- DELINEATION FLAG
  - TS --- TREE STUMP & SIZE
  - TR --- TREE & TRUNK SIZE
  - CT --- CONIFEROUS TREE & TRUNK SIZE
  - SHRUBS
  - PK --- PARKING SPACE COUNT
  - SWL --- SOLID WHITE LINE
  - SYL --- SOLID YELLOW LINE
  - DYL --- DOUBLE YELLOW LINE
  - HT --- HEIGHT
  - DWL --- DASHED WHITE LINE
  - DYL --- DASHED YELLOW LINE
  - BFA --- BUILDING FOOTPRINT AREA
  - NVP --- NO VISIBLE PIPE
  - UNOBT --- UNOBTAINABLE
  - FOO --- FILLED W/DEBRIS
  - UNK TER --- UNKNOWN TERMINUS
  - SBWH --- STONE BOUND W/DRILL HOLE



SEE SHEET 1 OF 7 FOR BOUNDARY AND NOTES  
SEE SHEETS 2 THROUGH 4 OF 7 FOR TOPOGRAPHY  
SEE SHEETS 5 THROUGH 7 OF 7 FOR UTILITIES

| No. | DESCRIPTION OF REVISION                       | FIELD CREW | DRAWN  | APPROVED | DATE     |
|-----|---|------------|--------|----------|----------|
| 4   | UPDATED PER ADDITIONAL TOPOGRAPHY & UTILITIES | T.M.       | E.L.C. | G.L.H.   | 4-16-19  |
| 3   | UPDATED PER ADDITIONAL TOPOGRAPHY & UTILITIES | S.B.H.     | R.J.K. | G.L.H.   | 12-21-18 |
| 2   | REVISED PER CLIENT COMMENTS                   | R.J.K.     | G.L.H. | G.L.H.   | 6-19-18  |
| 1   | UPDATED PER NEW TITLE COMMITMENT              | T.L.M.     | R.J.K. | G.L.H.   | 9-4-18   |

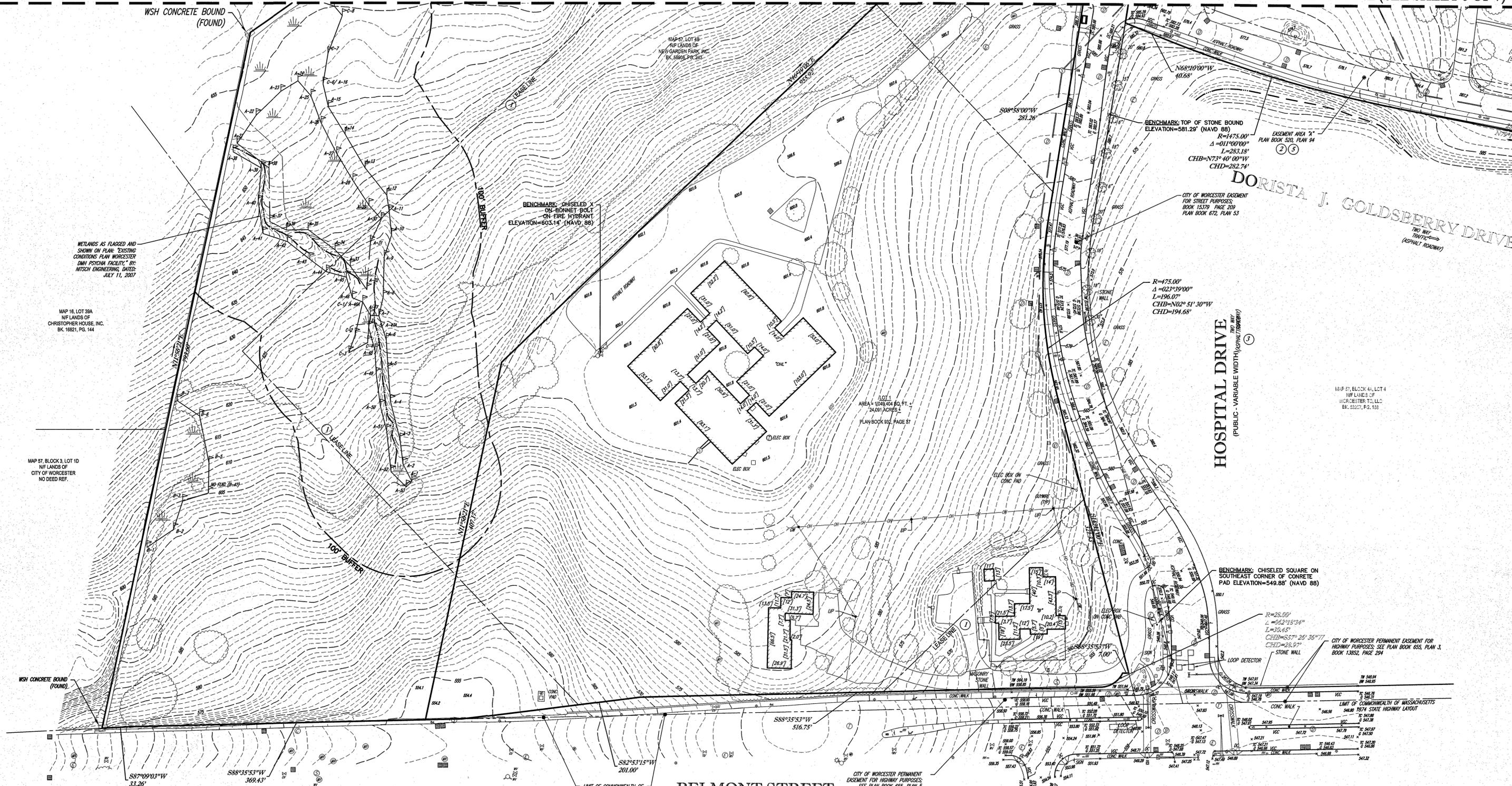
THIS SURVEY IS CERTIFIED TO:  
WORCESTER BUSINESS DEVELOPMENT CORPORATION  
CHARLES P. BALL

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT WAS BASED WERE MADE IN ACCORDANCE WITH THE 2016 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 2, 3, 4, 5, 7(a), 8, 9, 11, 13 & 14 OF TABLE A THEREOF. THE FIELDWORK WAS COMPLETED ON JULY 16, 2017.



**GERRY L. HOLDRIGHT, PLS**  
MASSACHUSETTS PROFESSIONAL LAND SURVEYOR #49211

|                        |   |
|------------------------|---|
| FIELD DATE<br>07-19-17 | ALTA/NSPS LAND TITLE SURVEY   |
| FIELD BOOK NO.         | <b>WORCESTER STATE HOSPITAL</b>   |
| FIELD BOOK PG.         | LOT B, BLOCK 4, MAP 57  |
| FIELD CREW<br>E.B.     | 305 BELMONT STREET<br>CITY OF WORCESTER, WORCESTER COUNTY<br>COMMONWEALTH OF MASSACHUSETTS  |
| DRAWN<br>PRIMA         | <b>CONTROL POINT ASSOCIATES, INC.</b>   |
| REVIEWED<br>J.M.R.     | 352 TURNPIKE ROAD<br>SOUTHBOROUGH, MA 01772<br>508.948.3000 - 508.948.3003 FAX  |
| APPROVED<br>G.L.H.     | ALBANY, NY 5182175010<br>CHALFONT, PA 2157129600<br>MANHATTAN, NY 6467800411<br>MT LAUREL, NJ 9086522099<br>WARREN, NJ 9086680099 |
| DATE<br>7-31-17        | SCALE<br>1"=50'   |
| FILE NO.<br>03-170167  | DWG. NO.<br>3 OF 7  |



**LEGEND**

|                          |                                   |
|--------------------------|-----------------------------------|
| 124                      | EXISTING CONTOUR                  |
| 125                      | EXISTING SPOT ELEVATION           |
| X 123.45                 | EXISTING TOP OF CURB ELEVATION    |
| X G 123.45               | EXISTING GUTTER ELEVATION         |
| X TW 123.45              | EXISTING TOP OF WALL ELEVATION    |
| X BW 122.85              | EXISTING BOTTOM OF WALL ELEVATION |
| X FF 123.45              | EXISTING FINISHED FLOOR ELEVATION |
| X DS 123.45              | EXISTING DOOR SILL ELEVATION      |
| HYDRANT                  | HYDRANT                           |
| WATER VALVE              | WATER VALVE                       |
| PRESSURE INDICATOR VALVE | PRESSURE INDICATOR VALVE          |
| UNKNOWN VALVE            | UNKNOWN VALVE                     |
| GAS VALVE                | GAS VALVE                         |
| GAS BOX                  | GAS BOX                           |
| GAS METER                | GAS METER                         |
| ELECTRIC METER           | ELECTRIC METER                    |
| OH                       | OVERHEAD WIRES                    |

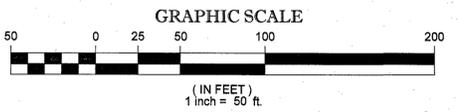
|                         |                         |
|-------------------------|-------------------------|
| STREET LIGHT            | STREET LIGHT            |
| TRAFFIC SIGNAL POLE     | TRAFFIC SIGNAL POLE     |
| TRAFFIC SIGNAL          | TRAFFIC SIGNAL          |
| AREA LIGHT              | AREA LIGHT              |
| CLEAN OUT               | CLEAN OUT               |
| SIGN                    | SIGN                    |
| MAIL BOX                | MAIL BOX                |
| BOLLARD                 | BOLLARD                 |
| U-BOLLARD               | U-BOLLARD               |
| METAL GUIDE RAIL        | METAL GUIDE RAIL        |
| PARKING METER           | PARKING METER           |
| POST                    | POST                    |
| UTILITY POLE            | UTILITY POLE            |
| UTILITY POLE/LIGHT POLE | UTILITY POLE/LIGHT POLE |
| GUY WIRE                | GUY WIRE                |
| WATER MANHOLE           | WATER MANHOLE           |
| CATCH BASIN OR INLET    | CATCH BASIN OR INLET    |

|  |  |
|--|--|
| PAINTED ARROWS                             | PAINTED ARROWS                             |
| BELGIUM BLOCK CURB (STATE HIGHWAY ROUTE 9) | BELGIUM BLOCK CURB (STATE HIGHWAY ROUTE 9) |
| CHAIN LINK FENCE                           | CHAIN LINK FENCE                           |
| DEPRESSED CURB                             | DEPRESSED CURB                             |
| EDGE OF CONCRETE                           | EDGE OF CONCRETE                           |
| EDGE OF PAVEMENT                           | EDGE OF PAVEMENT                           |
| GUTTER LINE                                | GUTTER LINE                                |
| LANDSCAPED AREA                            | LANDSCAPED AREA                            |
| METAL COVER                                | METAL COVER                                |
| RAILROAD TIE WALL (TYP)                    | RAILROAD TIE WALL (TYP)                    |
| TYPICAL                                    | TYPICAL                                    |
| MANHOLE                                    | MANHOLE                                    |
| DRAINAGE/STORM MANHOLE                     | DRAINAGE/STORM MANHOLE                     |
| ELECTRIC MANHOLE                           | ELECTRIC MANHOLE                           |
| FIBER OPTIC MANHOLE                        | FIBER OPTIC MANHOLE                        |
| SANITARY/SEWER MANHOLE                     | SANITARY/SEWER MANHOLE                     |
| TELEPHONE MANHOLE                          | TELEPHONE MANHOLE                          |

|                          |                          |
|--------------------------|--------------------------|
| CONC. BOUND w/DRILL HOLE | CONC. BOUND w/DRILL HOLE |
| MONUMENT                 | MONUMENT                 |
| DRILL HOLE FOUND         | DRILL HOLE FOUND         |
| ELEVATION                | ELEVATION                |
| INVERT ELEVATION         | INVERT ELEVATION         |
| GRATE ELEVATION          | GRATE ELEVATION          |
| BOTTOM OF STRUCTURE      | BOTTOM OF STRUCTURE      |
| DASHED YELLOW LINE       | DASHED YELLOW LINE       |
| BUILDING FOOTPRINT AREA  | BUILDING FOOTPRINT AREA  |
| NO VISIBLE PIPE          | NO VISIBLE PIPE          |
| UNOBTAINABLE             | UNOBTAINABLE             |
| FILLED W/DEBRIS          | FILLED W/DEBRIS          |
| UNKNOWN TERMINUS         | UNKNOWN TERMINUS         |

**BELMONT STREET**  
(STATE HIGHWAY - ROUTE 9)

SEE SHEET 1 OF 7 FOR BOUNDARY AND NOTES  
SEE SHEETS 2 THROUGH 4 OF 7 FOR TOPOGRAPHY  
SEE SHEETS 5 THROUGH 7 OF 7 FOR UTILITIES



THIS SURVEY IS CERTIFIED TO:  
WORCESTER BUSINESS DEVELOPMENT CORPORATION  
CHARLES P. BALL

THIS IS TO CERTIFY THAT THIS MAP OR PLAN AND THE SURVEY ON WHICH IT WAS BASED WERE MADE IN ACCORDANCE WITH THE 2016 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 2, 3, 4, 5, 7(a), 8, 9, 11, 13 & 14 OF TABLE THEREOF. THE FIELDWORK WAS COMPLETED ON JULY 19, 2017.



GERRY L. HOLDRIGHT, PLS  
MASSACHUSETTS PROFESSIONAL LAND SURVEYOR #49211

| No. | DESCRIPTION OF REVISION                       | T.M.       | E.LOC  | G.L.H.    | DATE     |
|-----|---|------------|--------|-----------|----------|
| 4   | UPDATED PER ADDITIONAL TOPOGRAPHY & UTILITIES | T.M.       | E.LOC  | G.L.H.    | 4-16-19  |
| 3   | UPDATED PER ADDITIONAL TOPOGRAPHY & UTILITIES | S.B.H.     | R.J.K. | G.L.H.    | 12-21-18 |
| 2   | REVISED PER CLIENT COMMENTS                   | R.J.K.     | G.L.H. | G.L.H.    | 9-19-18  |
| 1   | UPDATED PER NEW TITLE COMMITMENT              | T.L.M.     | R.J.K. | G.L.H.    | 9-4-18   |
| No. | DESCRIPTION OF REVISION                       | FIELD CREW | DRAWN  | APPROVED: | DATE     |

ALTA/NSPS LAND TITLE SURVEY  
**WORCESTER STATE HOSPITAL**  
LOT B, BLOCK 4, MAP 57  
305 BELMONT STREET, WORCESTER COUNTY  
COMMONWEALTH OF MASSACHUSETTS

**CONTROL POINT ASSOCIATES, INC.**  
352 TURNPIKE ROAD  
SOUTHBOROUGH, MA 01772  
508.948.3000 • 508.948.3003 FAX

ALBANY, NY 5182175010  
CHALFONTE, PA 2157129800  
MANHATTAN, NY 6098720911  
MT LAUREL, NJ 6098720911  
WARREN, NJ 908660099

DATE: \_\_\_\_\_

|           |           |          |        |           |           |
|-----------|-----------|----------|--------|-----------|-----------|
| REVIEWED: | APPROVED: | DATE:    | SCALE: | FILE NO.: | DWG. NO.: |
| J.M.R.    | G.L.H.    | 07-31-17 | 1"=50' | 03-170167 | 4 OF 7    |

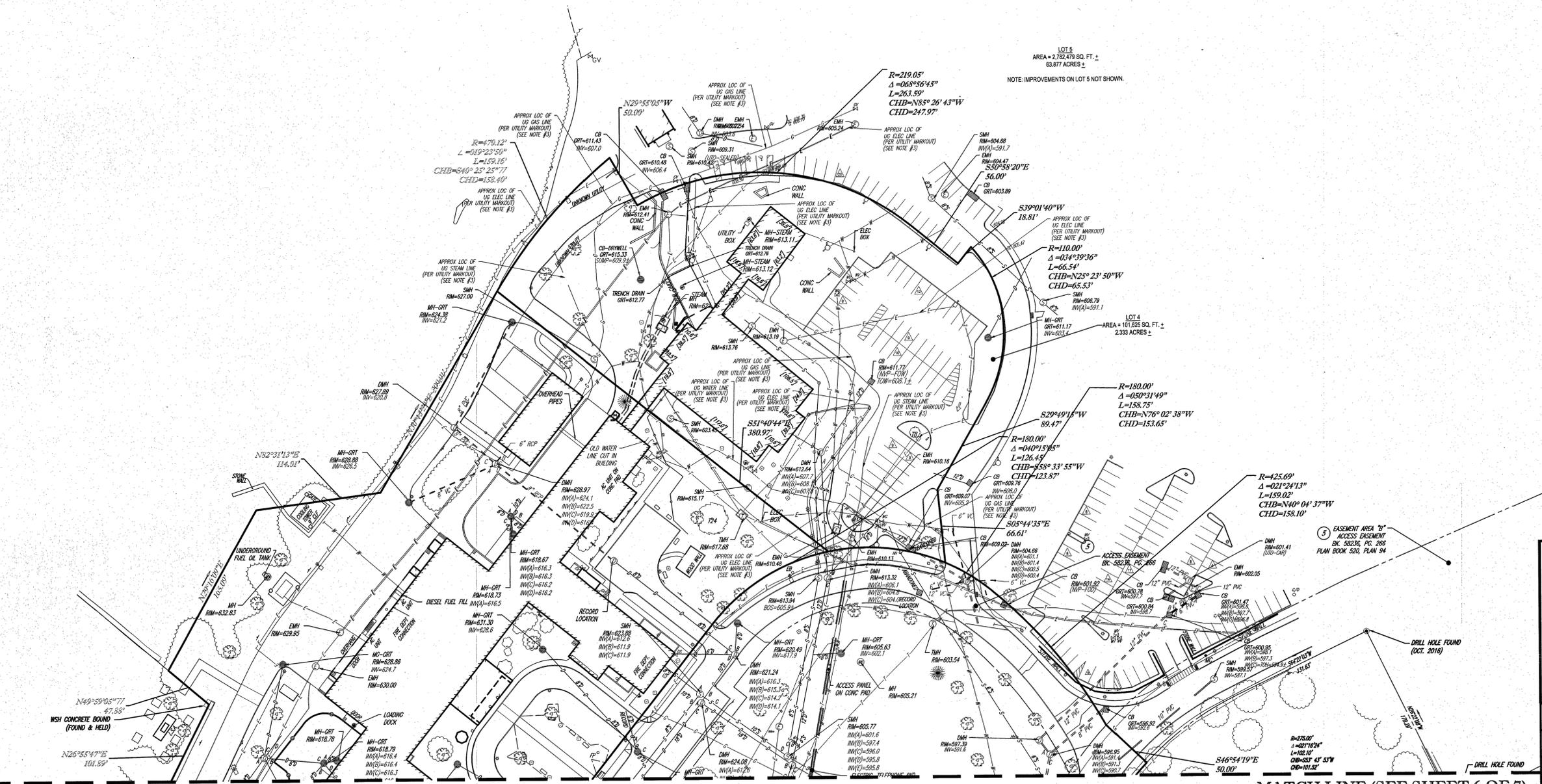
**LEGEND**

|             |  |
|-------------|--|
| ---         | EXISTING CONTOUR                                   |
| X 123.45    | EXISTING SPOT ELEVATION                            |
| X TC 123.45 | EXISTING TOP OF CURB ELEVATION                     |
| X G 122.85  | EXISTING GUTTER ELEVATION                          |
| X TW 123.45 | EXISTING TOP OF WALL ELEVATION                     |
| X BW 122.85 | EXISTING BOTTOM OF WALL ELEVATION                  |
| X FF 123.45 | EXISTING FINISHED FLOOR ELEVATION                  |
| X DS 123.45 | EXISTING DOOR SILL ELEVATION                       |
| HY          | HYDRANT  |
| WV          | WATER VALVE  |
| PIV         | PRESSURE INDICATOR VALVE                           |
| UV          | UNKNOWN VALVE                                      |
| GV          | GAS VALVE  |
| GB          | GAS BOX  |
| GM          | GAS METER  |
| EM          | ELECTRIC METER                                     |
| OW          | OVERHEAD WIRES                                     |
| G           | APPROX. LOC. UNDERGROUND GAS LINE                  |
| E           | APPROX. LOC. UNDERGROUND ELECTRIC LINE             |
| E/T         | APPROX. LOC. UNDERGROUND ELECTRIC & TELEPHONE LINE |

|      |  |
|------|--|
| F    | APPROX. LOC. UNDERGROUND FIBER OPTIC LINE      |
| C    | APPROX. LOC. UNDERGROUND CABLE LINE            |
| D    | APPROX. LOC. UNDERGROUND DRAINAGE LINE         |
| S    | APPROX. LOC. UNDERGROUND SANITARY / SEWER LINE |
| W    | APPROX. LOC. UNDERGROUND WATER LINE            |
| UP   | UTILITY POLE                                   |
| UPLP | UTILITY POLE/LIGHT POLE                        |
| GW   | GUY WIRE                                       |
| SL   | STREET LIGHT                                   |
| TSP  | TRAFFIC SIGNAL POLE                            |
| AL   | AREA LIGHT                                     |
| CO   | CLEAN OUT                                      |
| SN   | SIGN   |
| MB   | MAIL BOX                                       |
| B    | BOLLARD  |
| UB   | U-BOLLARD                                      |
| MGR  | METAL GUIDE RAIL                               |
| PM   | PARKING METER                                  |
| P    | POST   |

|          |                        |
|----------|------------------------|
| PA       | PAINTED ARROWS         |
| BB       | BELGIUM BLOCK CURB     |
| CLF      | CHAIN LINK FENCE       |
| DC       | DEPRESSED CURB         |
| EDC      | EDGE OF CONCRETE       |
| EOP      | EDGE OF PAVEMENT       |
| GL       | GUTTER LINE            |
| LSA      | LANDSCAPED AREA        |
| MC       | METAL COVER            |
| RRT WALL | RAILROAD TIE WALL      |
| (TYP)    | TYPICAL                |
| GMH      | GAS MANHOLE            |
| DMH      | DRAINAGE/STORM MANHOLE |
| EMH      | ELECTRIC MANHOLE       |
| FDMH     | FIBER OPTIC MANHOLE    |
| SMH      | SANITARY/SEWER MANHOLE |
| TMH      | TELEPHONE MANHOLE      |
| UMH      | UNKNOWN MANHOLE        |
| WMH      | WATER MANHOLE          |
| CB       | CATCH BASIN OR INLET   |
| FD       | FLOW DIRECTION         |

|         |                          |
|---------|--------------------------|
| CBH     | CONC. BOUND W/DRILL HOLE |
| MON     | MONUMENT                 |
| DHF     | DRILL HOLE FOUND         |
| EL      | ELEVATION                |
| INV     | INVERT ELEVATION         |
| GRT     | GRATE ELEVATION          |
| BOS     | BOTTOM OF STRUCTURE      |
| SWL     | SOLID WHITE LINE         |
| SYL     | SOLID YELLOW LINE        |
| DYL     | DOUBLE YELLOW LINE       |
| HT      | HEIGHT                   |
| DMW     | DASHED WHITE LINE        |
| DMY     | DASHED YELLOW LINE       |
| BFA     | BUILDING FOOTPRINT AREA  |
| NVP     | NO VISIBLE PIPE          |
| UNOBT   | UNOBTAINABLE             |
| FDD     | FILLED W/DEBRIS          |
| UNK TER | UNKNOWN TERMINUS         |
| SBH     | STONE BOUND W/DRILL HOLE |



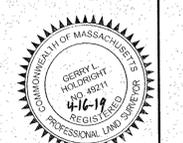
LOT 5  
AREA = 2,762.478 SQ. FT. ±  
63.877 ACRES ±  
NOTE: IMPROVEMENTS ON LOT 5 NOT SHOWN.

LOT 4  
AREA = 101,825 SQ. FT. ±  
2.333 ACRES ±

SEE SHEET 1 OF 7 FOR BOUNDARY AND NOTES  
SEE SHEETS 2 THROUGH 4 OF 7 FOR TOPOGRAPHY  
SEE SHEETS 5 THROUGH 7 OF 7 FOR UTILITIES

THIS SURVEY IS CERTIFIED TO:  
WORCESTER BUSINESS DEVELOPMENT CORPORATION  
CHARLES P. BALL

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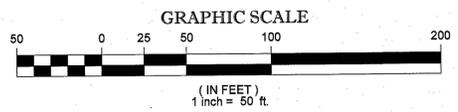


**GERRY L. HOLDRIGHT, PLS**  
MASSACHUSETTS PROFESSIONAL LAND SURVEYOR #4921

DATE \_\_\_\_\_  
FIELD DATE 07-19-17  
FIELD BOOK NO. \_\_\_\_\_  
FIELD BOOK PG. \_\_\_\_\_  
ALTA/NSPS LAND TITLE SURVEY  
**WORCESTER STATE HOSPITAL**  
LOT B, BLOCK 4, MAP 57  
305 BELMONT STREET  
CITY OF WORCESTER, WORCESTER COUNTY  
COMMONWEALTH OF MASSACHUSETTS

|              |           |
|--------------|-----------|
| FIELD CREW   | E.B.      |
| DRAWN        | J.M.R.    |
| PRIMA/B.J.E. |           |
| REVIEWED     | J.M.R.    |
| APPROVED     | G.L.H.    |
| DATE         | 7-31-17   |
| SCALE        | 1"=120'   |
| FILE NO.     | 03-170167 |
| DWG. NO.     | 5 OF 7    |

MATCH LINE (SEE SHEET 6 OF 7)

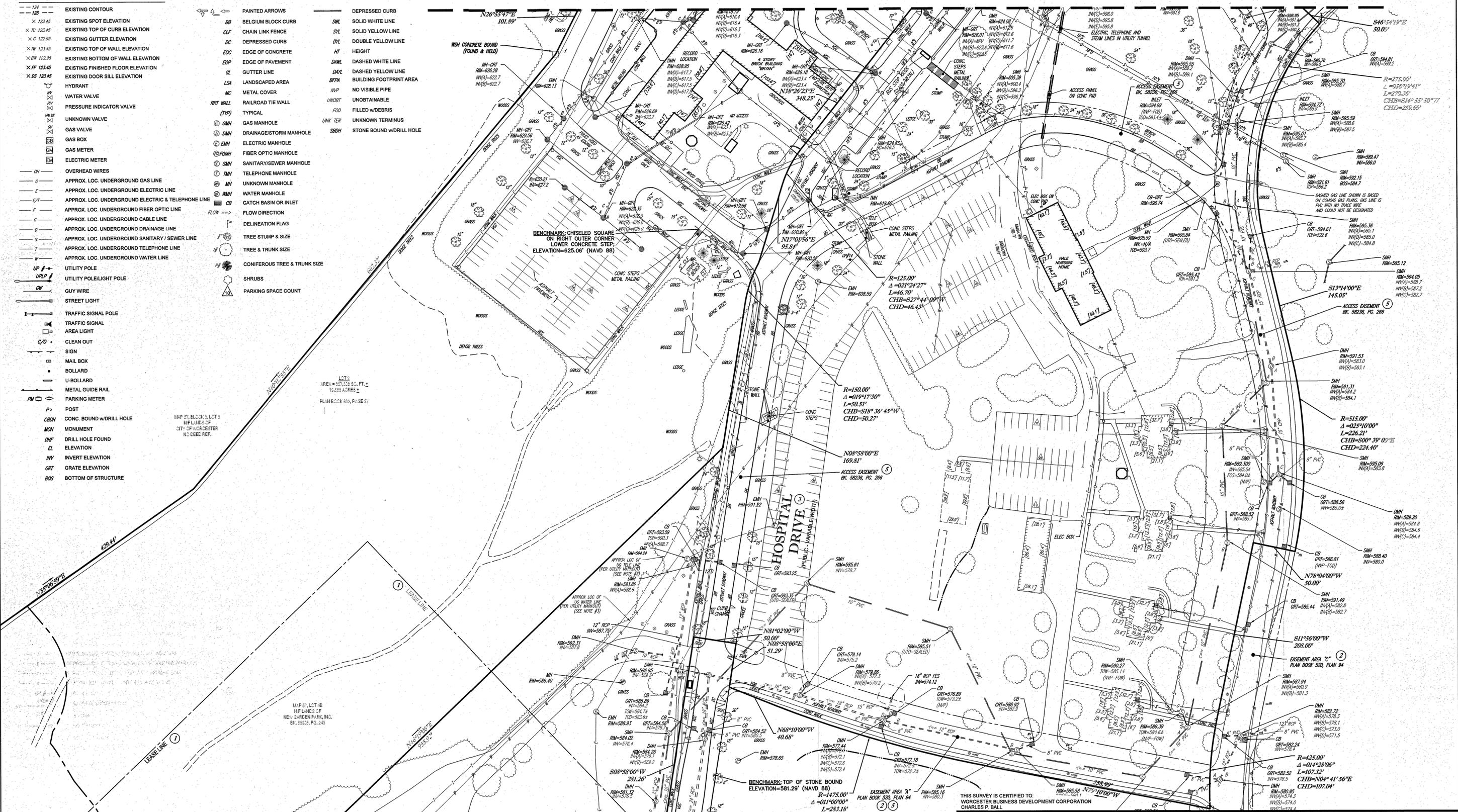


MATCH LINE (SEE SHEET 6 OF 7)

| No. | DESCRIPTION OF REVISION                       | T.M.       | E.L.O.C. | G.L.H.   | DATE     |
|-----|---|------------|----------|----------|----------|
| 4   | UPDATED PER ADDITIONAL TOPOGRAPHY & UTILITIES | S.B.H.     | R.J.K.   | G.L.H.   | 4-16-19  |
| 3   | UPDATED PER ADDITIONAL TOPOGRAPHY & UTILITIES | S.B.H.     | R.J.K.   | G.L.H.   | 12-21-18 |
| 2   | REVISED PER CLIENT COMMENTS                   | T.L.M.     | R.J.K.   | G.L.H.   | 9-19-18  |
| 1   | UPDATED PER NEW TITLE COMMITMENT              | T.L.M.     | R.J.K.   | G.L.H.   | 9-4-18   |
| No. | DESCRIPTION OF REVISION                       | FIELD CREW | DRAWN    | APPROVED | DATE     |

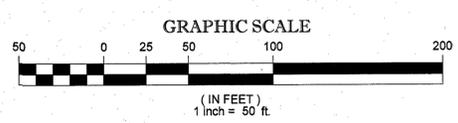
LEGEND

- 124 EXISTING CONTOUR
- 125 EXISTING SPOT ELEVATION
- 126 EXISTING TOP OF CURB ELEVATION
- 127 EXISTING GUTTER ELEVATION
- 128 EXISTING TOP OF WALL ELEVATION
- 129 EXISTING BOTTOM OF WALL ELEVATION
- 130 EXISTING FINISHED FLOOR ELEVATION
- 131 EXISTING DOOR SILL ELEVATION
- HYDRANT
- WATER VALVE
- PRESSURE INDICATOR VALVE
- UNKNOWN VALVE
- GAS VALVE
- GAS BOX
- GAS METER
- ELECTRIC METER
- OVERHEAD WIRES
- APPROX. LOC. UNDERGROUND GAS LINE
- APPROX. LOC. UNDERGROUND ELECTRIC LINE
- APPROX. LOC. UNDERGROUND ELECTRIC & TELEPHONE LINE
- APPROX. LOC. UNDERGROUND FIBER OPTIC LINE
- APPROX. LOC. UNDERGROUND CABLE LINE
- APPROX. LOC. UNDERGROUND DRAINAGE LINE
- APPROX. LOC. UNDERGROUND SANITARY / SEWER LINE
- APPROX. LOC. UNDERGROUND TELEPHONE LINE
- APPROX. LOC. UNDERGROUND WATER LINE
- UTILITY POLE
- UTILITY POLE/LIGHT POLE
- GUY WIRE
- STREET LIGHT
- TRAFFIC SIGNAL POLE
- TRAFFIC SIGNAL
- AREA LIGHT
- CLEAN OUT
- SIGN
- MAIL BOX
- BOLLARD
- U-BOLLARD
- METAL GUIDE RAIL
- PARKING METER
- POST
- CONC. BOUND w/DRILL HOLE
- MONUMENT
- DRILL HOLE FOUND
- ELEVATION
- INVERT ELEVATION
- GRATE ELEVATION
- BOS BOTTOM OF STRUCTURE
- PAINTED ARROWS
- BB BELGIUM BLOCK CURB
- CLF CHAIN LINK FENCE
- DC DEPRESSED CURB
- EDC EDGE OF CONCRETE
- EOP EDGE OF PAVEMENT
- GL GUTTER LINE
- LSA LANDSCAPED AREA
- MC METAL COVER
- RRT WALL RAILROAD TIE WALL
- (TYP) TYPICAL
- GMH GAS MANHOLE
- DMH DRAINAGE/STORM MANHOLE
- EMH ELECTRIC MANHOLE
- FOMH FIBER OPTIC MANHOLE
- SMH SANITARY/SEWER MANHOLE
- TMH TELEPHONE MANHOLE
- UMH UNKNOWN MANHOLE
- WMH WATER MANHOLE
- CB CATCH BASIN OR INLET
- FLOW DIRECTION
- DELINEATION FLAG
- TREE STUMP & SIZE
- TREE & TRUNK SIZE
- CONIFEROUS TREE & TRUNK SIZE
- SHRUBS
- PARKING SPACE COUNT
- DEPRESSED CURB
- SWL SOLID WHITE LINE
- DYL DOUBLE YELLOW LINE
- HT HEIGHT
- DMK DASHED WHITE LINE
- DYL2 DASHED YELLOW LINE
- BTPA BUILDING FOOTPRINT AREA
- NVP NO VISIBLE PIPE
- UNOBT UNOBTAINABLE
- FOD FILLED W/DEBRIS
- UNK TER UNKNOWN TERMINUS
- SBDH STONE BOUND w/DRILL HOLE



MATCH LINE (SEE SHEET 7 OF 7)

MATCH LINE (SEE SHEET 7 OF 7)



SEE SHEET 1 OF 7 FOR BOUNDARY AND NOTES  
 SEE SHEETS 2 THROUGH 4 OF 7 FOR TOPOGRAPHY  
 SEE SHEETS 5 THROUGH 7 OF 7 FOR UTILITIES

| No. | DESCRIPTION OF REVISION                       | FIELD CREW    | DATE            |
|-----|---|---------------|-----------------|
| 4   | UPDATED PER ADDITIONAL TOPOGRAPHY & UTILITIES | T.M. ELOC     | G.L.H. 4-16-19  |
| 3   | UPDATED PER ADDITIONAL TOPOGRAPHY & UTILITIES | S.B.H. R.J.K. | G.L.H. 12-21-18 |
| 2   | REVISED PER CLIENT COMMENTS                   | R.J.K.        | G.L.H. 9-19-18  |
| 1   | UPDATED PER NEW TITLE COMMITMENT              | T.L.M. R.J.K. | G.L.H. 9-4-18   |

THIS SURVEY IS CERTIFIED TO:  
 WORCESTER BUSINESS DEVELOPMENT CORPORATION  
 CHARLES P. BALL

THIS IS TO CERTIFY THAT THIS MAP OR PLAN AND THE SURVEY ON WHICH IT WAS BASED WERE MADE IN ACCORDANCE WITH THE 2018 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 2, 3, 4, 5, 7(a), 8, 9, 11, 13 & 14 OF TABLE A THEREOF. THE FIELDWORK WAS COMPLETED ON JULY 19, 2017.

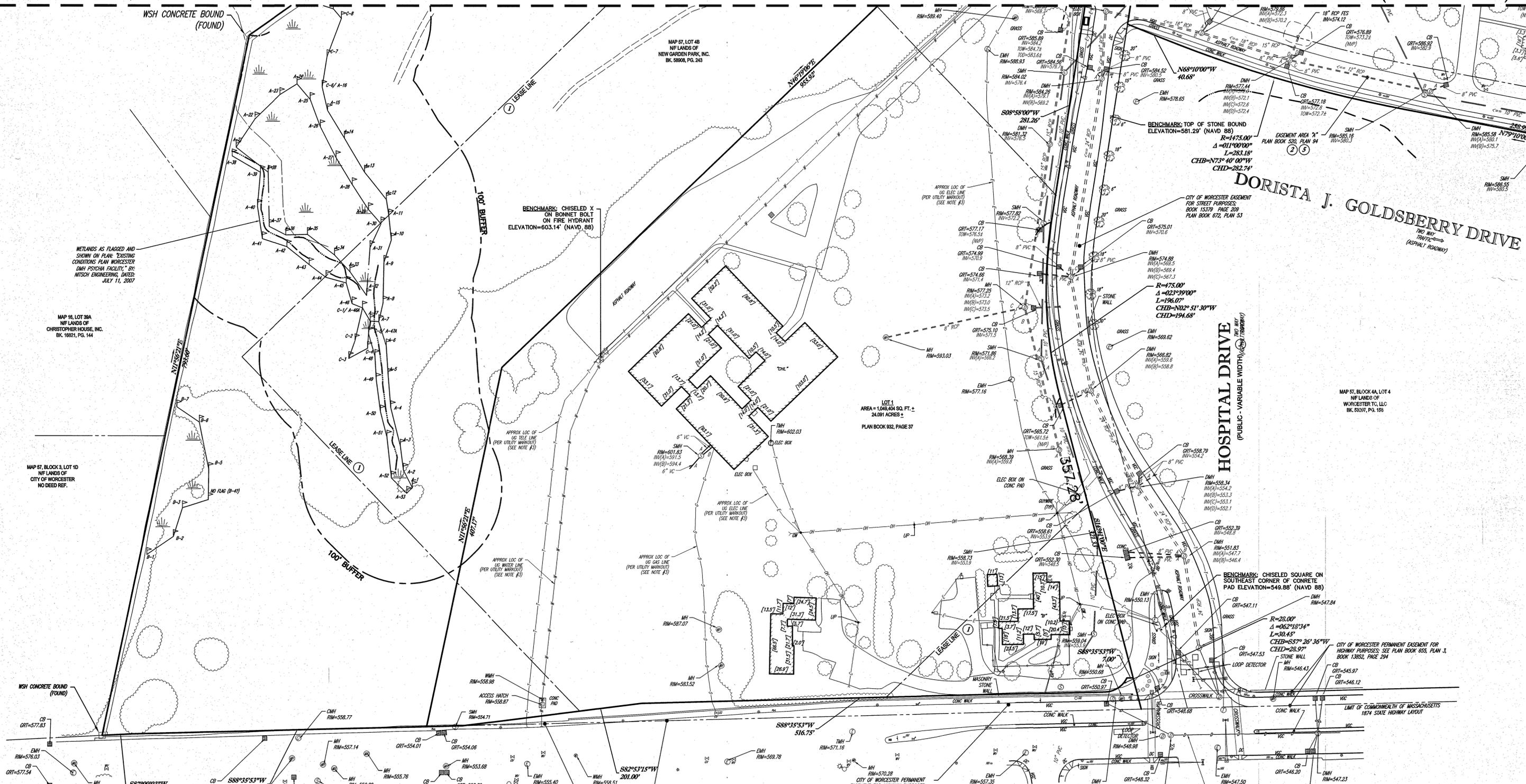


GERRY L. HOLDRIGHT, PLS  
 MASSACHUSETTS PROFESSIONAL LAND SURVEYOR #49211

|                        |  |
|------------------------|--|
| FIELD DATE<br>07-19-17 | ALTA/NSPS LAND TITLE SURVEY  |
| FIELD BOOK NO.         | WORCESTER STATE HOSPITAL   |
| FIELD BOOK PG.         | LOT B, BLOCK 4, MAP 57   |
| FIELD CREW<br>E.B.     | 305 BELMONT STREET<br>CITY OF WORCESTER, WORCESTER COUNTY<br>COMMONWEALTH OF MASSACHUSETTS                                     |
| DRAWN:<br>PRIMA        | <b>CONTROL POINT ASSOCIATES, INC.</b><br>352 TURNPIKE ROAD<br>SOUTHBOROUGH, MA 01772<br>508.948.3000 - 508.948.3003 FAX        |
| REVIEWED:<br>J.M.R.    | ALBANY, NY 518215010<br>CHAFFONT, PA 2157128000<br>MADEIRA, NY 6467804111<br>MT LAUREL, NJ 6098572099<br>WARREN, NJ 9086800999 |
| APPROVED:<br>G.L.H.    | DATE<br>7-31-17  |
| SCALE<br>1"=50'        | FILE NO.<br>03-170167  |
| DWG. NO.<br>6 OF 7     |  |

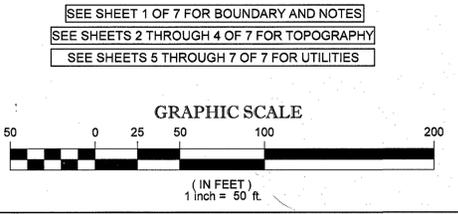
MATCH LINE (SEE SHEET 2 OF 3)

MATCH LINE (SEE SHEET 2 OF 3)



- LEGEND**
- 12" --- EXISTING CONTOUR
  - × 123.45 EXISTING SPOT ELEVATION
  - × TC 123.45 EXISTING TOP OF CURB ELEVATION
  - × G 122.95 EXISTING GUTTER ELEVATION
  - × TW 123.45 EXISTING TOP OF WALL ELEVATION
  - × BW 122.95 EXISTING BOTTOM OF WALL ELEVATION
  - × FF 123.45 EXISTING FINISHED FLOOR ELEVATION
  - × DS 123.45 EXISTING DOOR SILL ELEVATION
  - HYDRANT
  - WATER VALVE
  - PRESSURE INDICATOR VALVE
  - UNKNOWN VALVE
  - GAS VALVE
  - GAS BOX
  - GAS METER
  - ELECTRIC METER
  - OVERHEAD WIRES
  - STREET LIGHT
  - TRAFFIC SIGNAL POLE
  - TRAFFIC SIGNAL AREA LIGHT
  - CLEAN OUT
  - SIGN
  - MAIL BOX
  - BOLLARD
  - U-BOLLARD
  - METAL GUIDE RAIL
  - PARKING METER
  - POST
  - UTILITY POLE
  - UTILITY POLE/LIGHT POLE
  - GUY WIRE
  - WATER MANHOLE
  - CATCH BASIN OR INLET
  - PAINTED ARROWS
  - BELGIUM BLOCK CURB
  - CHAIN LINK FENCE
  - DEPRESSED CURB
  - EDGE OF CONCRETE
  - EDGE OF PAVEMENT
  - GUTTER LINE
  - LANDSCAPED AREA
  - METAL COVER
  - RAILROAD TIE WALL
  - TYPICAL
  - GAS MANHOLE
  - DRAINAGE/STORM MANHOLE
  - ELECTRIC MANHOLE
  - FIBER OPTIC MANHOLE
  - SANITARY/SEWER MANHOLE
  - TELEPHONE MANHOLE
  - UNKNOWN MANHOLE
  - FLOW DIRECTION
  - DELINEATION FLAG
  - TREE STUMP & SIZE
  - TREE & TRUNK SIZE
  - CONIFEROUS TREE & TRUNK SIZE
  - SHRUBS
  - PARKING SPACE COUNT
  - DEPRESSED CURB
  - SOLID WHITE LINE
  - DASHED YELLOW LINE
  - DOUBLE YELLOW LINE
  - HEIGHT
  - DASHED WHITE LINE
  - STONE BOUND W/DRILL HOLE
  - MONUMENT
  - DRILL HOLE FOUND
  - ELEVATION
  - INVERT ELEVATION
  - GRATE ELEVATION
  - BOTTOM OF STRUCTURE
  - DASHED YELLOW LINE BUILDING FOOTPRINT AREA
  - NO VISIBLE PIPE
  - UNOBTAINABLE
  - FILLED W/DEBRIS
  - UNKNOWN TERMINUS
  - CONC. BOUND W/DRILL HOLE
  - MONUMENT
  - DRILL HOLE FOUND
  - ELEVATION
  - INVERT ELEVATION
  - GRATE ELEVATION
  - BOTTOM OF STRUCTURE
  - DASHED YELLOW LINE BUILDING FOOTPRINT AREA
  - NO VISIBLE PIPE
  - UNOBTAINABLE
  - FILLED W/DEBRIS
  - UNKNOWN TERMINUS

**BELMONT STREET**  
(STATE HIGHWAY - ROUTE 9)



THIS SURVEY IS CERTIFIED TO:  
WORCESTER BUSINESS DEVELOPMENT CORPORATION  
CHARLES P. BALL

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT WAS BASED WERE MADE IN ACCORDANCE WITH THE 2016 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 2, 3, 4, 5, 7(a), 8, 9, 11, 13 & 14 OF TABLE A THEREOF. THE FIELDWORK WAS COMPLETED ON JULY 19, 2017.



**GERRY L. HOLDRIGHT, PLS**  
MASSACHUSETTS PROFESSIONAL LAND SURVEYOR #49211

| No. | DESCRIPTION OF REVISION                       | T.M.   | E.L.O.C. | G.L.H. | 4-18-19  |
|-----|---|--------|----------|--------|----------|
| 4   | UPDATED PER ADDITIONAL TOPOGRAPHY & UTILITIES |        |          |        |          |
| 3   | UPDATED PER ADDITIONAL TOPOGRAPHY & UTILITIES | S.B.H. | R.J.K.   | G.L.H. | 12-21-18 |
| 2   | REVISED PER CLIENT COMMENTS                   |        | R.J.K.   | G.L.H. | 9-18-18  |
| 1   | UPDATED PER NEW TITLE COMMITMENT              | T.L.M. | R.J.K.   | G.L.H. | 9-4-18   |

**ALTA/NSPS LAND TITLE SURVEY**  
**WORCESTER STATE HOSPITAL**  
LOT B, BLOCK 4, MAP 57  
305 BELMONT STREET  
CITY OF WORCESTER, WORCESTER COUNTY  
COMMONWEALTH OF MASSACHUSETTS

**CONTROL POINT ASSOCIATES, INC.**  
332 TURNPIKE ROAD  
SOUTHBOROUGH, MA 01772  
508.948.3000 - 508.948.3003 FAX

ALBANY, NY 518217510  
CHAFFONT, PA 215129800  
MANHATTAN, NY 646700411  
MT LAUREL, NJ 0805372099  
WARREN, NJ 908680099

DATE: 07-19-17  
FIELD BOOK NO.:  
FIELD BOOK PG.:  
FIELD CREW: E.B.  
DRAWN: PRIMA/B.J.E.  
REVIEWED: J.M.R.  
APPROVED: G.L.H.  
DATE: 07-31-17  
SCALE: 1"=50'  
FILE NO.: 03-170167  
DWS NO.: 7 OF 7