APPLICANT PLAN REVISION ACKNOWLEDGEMENT

ACKNOWLEDGE THAT ANY REVISION TO THE APPROVED STORMWATER MANAGEMENT SITE PLAN SHALL BE SUBMITTED TO AND APPROVED BY CALN TOWNSHIP AND THAT A REVISED EROSION AND SEDIMENT CONTROL PLAN SHALL BE SUBMITTED TO, AND APPROVED BY, THE CHESTER COUNTY CONSERVATION DISTRICT OR CALN TOWNSHIP (AS APPLICABLE) FOR A DETERMINATION OF ADEQUACY PRIOR TO CONSTRUCTION OF THE REVISED FEATURES.

APPLICANT

DATE

DESIGN ENGINEER STORMWATER PLAN ACKNOWLEDGEMENT

ON THIS DATE HEREBY CERTIFY T THE BEST OF MY KNOWLEDGE THAT THE STORMWATER MANAGEMENT SITE PLAN MEETS ALL DESIGN STANDARDS AND CRITERIA OF THE CALN ORDINANCE NO. 135 (STORMWATER MANAGEMENT).

(SEAL)

DATE

MATTHEW JOHN KEARSE, P.E. (PE092988)

TOWNSHIP STORMWATER PLAN ACKNOWLEDGEMENT

ON BEHALF OF CALN TOWNSHIP. (MUNICIPAL OFFICIAL OR DESIGNEE). ON THIS DATE HAS REVIEWED AND HEREBY CERTIFIES TO THE BEST OF MY KNOWLEDGE THAT THE SWM SITE PLAN MEETS ALL DESIGN STANDARDS AND CRITERIA OF THE MUNICIPAL ORDINANCE NO. 135 (STORMWATER MANAGEMENT).

SIGNATURE

REFERENCES AND CONTACTS

REFERENCES

- ♦ BOUNDARY & TOPOGRAPHIC SURVEY: ONTROL POINT ASSOCIATES, INC 1600 MANOR DRIVE, SUITE 210 CHALFONT, PA 18914 DATED: 03/18/2024 (REV. 3) FILE NO.: 02-220139-00 **ELEVATIONS: NAVD 1988**
- ♦ GEOTECHNICAL INVESTIGATION REPORT WHITESTONE ASSOCIATES, INC. 1515 MARKET STREET, SUITE 920
- PHILADELPHIA, PA 19102 PRELIM DATED: 05/04/2023 SUPPLEMENTAL DATED: 08/30/2023 SUPPLEMENTAL KARST DATED: 10/09/2023
- WETLAND REPORT VALLEY ENVIRONMENTAL SERVICES, INC 3282 HOPE DRIVE EMMAUS, PA 18049
- DATED: 06/19/2024 ARCHITECTURAL PLAN:
- STANTE 1500 SPRING GARDEN STREET, SUITE 1100 PHILADELPHIA, PA 19130
- POST CONSTRUCTION STORMWATER MANAGEMENT REPORT A REPORT ENTITLED "STORMWATER MANAGEMENT REPORT - MAIN LINE HEALTH CALN TOWNSHIP MEDICAL CENTER"
- BOHI FR 1515 MARKET STREET, SUITE 920 PHILADELPHIA, PA 19102 DATED: 10/04/2024
- LAST REVISED: 01/17/2025 EROSION AND SEDIMENT CONTROL
- REPORT A REPORT ENTITLED "EROSION AND SEDIMENT CONTROL REPORT - MAIN LINE HEALTH CALN TOWNSHIP MEDICAL CENTER"
- BOHLER 1515 MARKET STREET, SUITE 920 PHILADELPHIA, PA 19102
- DATED: 10/04/2024 LAST REVISED: 01/17/2025

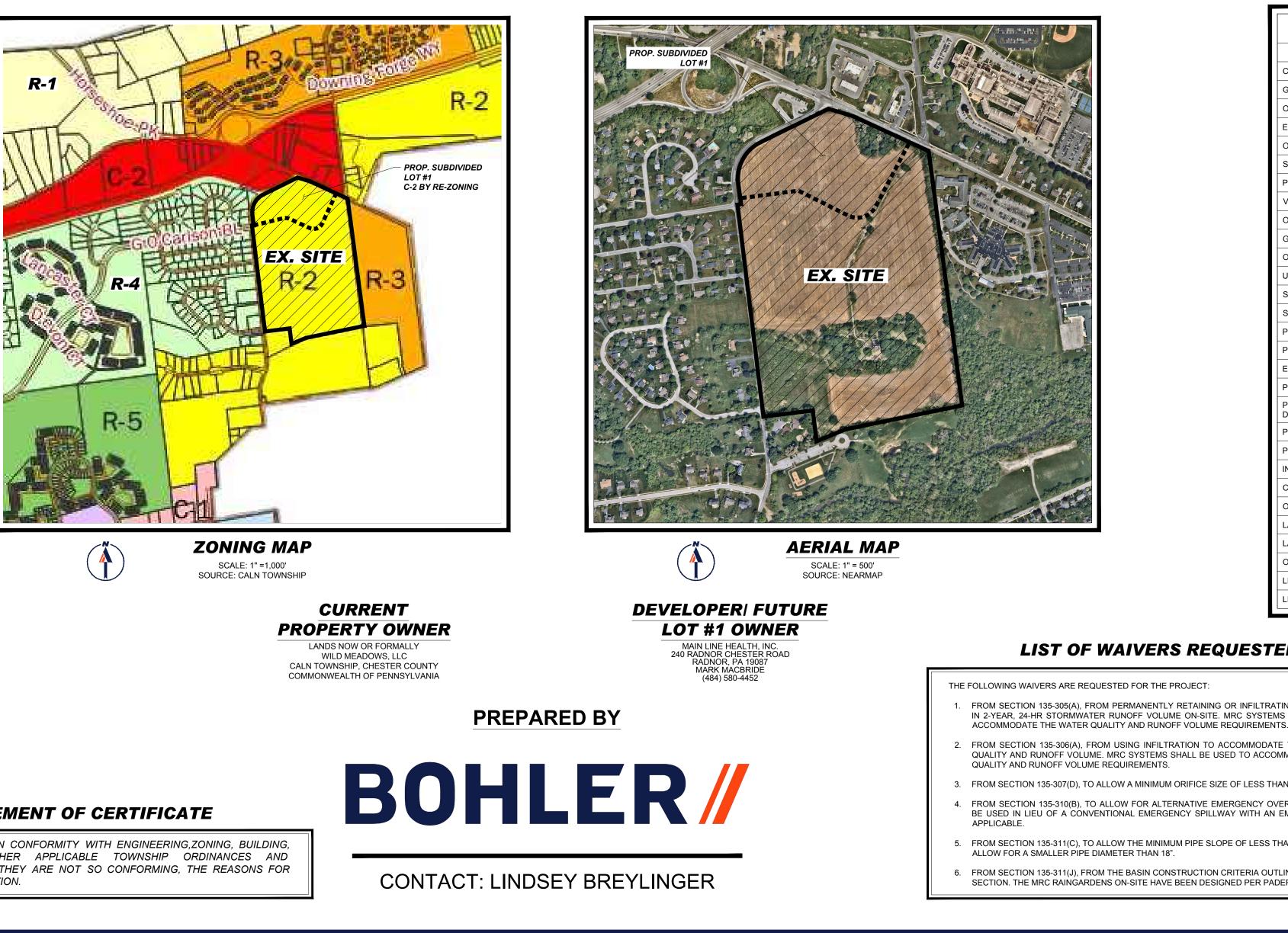
♦ARCHITECTURAL PLAN: STANTEC PHILADELPHIA, PA 19130

- **GOVERNING AGENCIES** ♦ PLANNING, ZONING COMMITTEE 253 MUNICIPAL DRIVE THORNDALE, PA 19372 PHONE: (610) 384-0600 FAX: (610) 384-0617
- ♦ BUILDING DEPARTMENT CALN TOWNSHIP 253 MUNICIPAL DRIVE FHORNDALE, PA 19372 PHONE: (610) 384-0600 FAX: (610) 384-0689
- ♦ FIRE DEPARTMENT 3611 EAST LINCOLN HIGHWA THORNDALE, PA 19372 PHONE: (610) 383-4835 FAX: (610) 384-7806

PHONE: (610) 384-0600

ROW JURISDICTION ◆TRAFFIC, STORMWATER, WATER & SEWER PUBLIC WORKS DEPARTMENT 253 MUNICIPAL DRIVE THORNDALE, PA 19372

CONDITIONAL USE I SUBDIVISION I PRELIMINARY LAND DEVELOPMENT PLANS



THE ABOVE REFERENCED DOCUMENTS ARE INCORPORATED BY REFERENCE AS PART OF THESE PLANS, HOWEVER, BOHLER ENGINEERING DOES NOT CERTIFY THE ACCURACY OF THE WORK REFERENCED OR DERIVED FROM THESE DOCUMENTS, BY OTHERS

REQUIRED REGULATORY APPROVALS:

- PROOF OF APPLICATION OR DOCUMENTATION OF REQUIRED PERMIT(S) OR APPROVALS FOR THE PROGRAMS LISTED BELOW SHALL BE PROVIDED TO THE TOWNSHIP BEFORE SITE PLAN APPROVAL IS
- GIVEN NPDES PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES -
- SUBMISSION BEING PREPARED. PENNDOT HIGHWAY OCCUPANCY PERMIT - SUBMISSION BEING PREPARED.
- EROSION AND SEDIMENT CONTROL PLAN LETTER OF ADEQUACY SUBMISSION IS BEING PREPARED
- SEWER PLANNING EXEMPTION SUBMISSION IS BEING PREPARED.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL OF THE DRAWINGS AND SPECIFICATIONS ASSOCIATED WITH THIS PROJECT ORK SCOPE PRIOR TO THE INITIATION OF CONSTRUCTION. SHOULD THE CONTRACTOR FIND A CONFLICT WITH THE DOCUMENTS RELATIVE THE SPECIFICATIONS OR APPLICABLE CODES, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE PROJECT ENGINEER OF RECORD VRITING PRIOR TO THE START OF CONSTRUCTION. FAILURE BY THE CONTRACTOR TO NOTIFY THE PROJECT ENGINEER SHALL CONSTITU PTANCE OF FULL RESPONSIBILITY BY THE CONTRACTOR TO COMPLETE THE SCOPE OF THE WORK AS DEFINED BY THE DRAWINGS A

THESE PLANS ARE OR N CONFORMITY WITH ENGINEERING, ZONING, BUILDING, SANITATION AND OTHER APPLICABLE TOWNSHIP ORDINANCES AND REGULATIONS, AND, IF THEY ARE NOT SO CONFORMING, THE REASONS FOR REQUESTING AN EXCEPTION.

_____ FOR _____

MAIN LINE HEALTH INC.

PROPOSED

MEDICAL CENTER

5030 HORSESHOE PIKE, CALN TOWNSHIP CHESTER COUNTY, PENNSYLVANIA UPI 39-2-87

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LIST OF WAIVERS REQUESTED:

FROM SECTION 135-305(A), FROM PERMANENTLY RETAINING OR INFILTRATING THE DIFFERENCE IN 2-YEAR, 24-HR STORMWATER RUNOFF VOLUME ON-SITE. MRC SYSTEMS SHALL BE USED TO

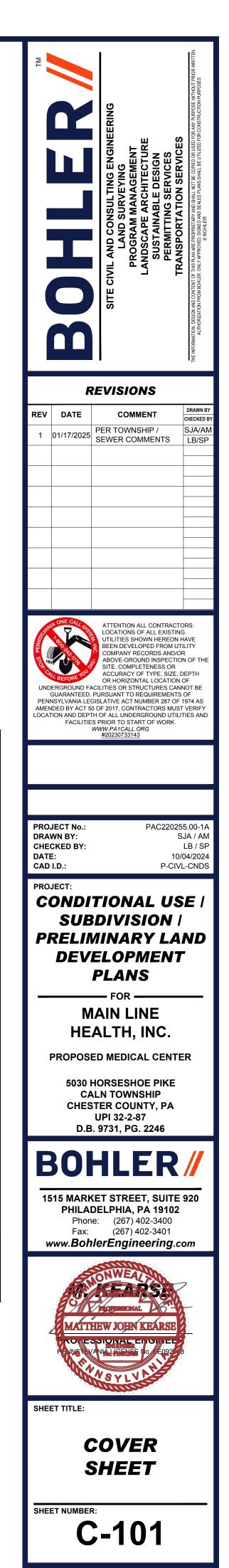
FROM SECTION 135-306(A), FROM USING INFILTRATION TO ACCOMMODATE THE ENTIRE WATER QUALITY AND RUNOFF VOLUME. MRC SYSTEMS SHALL BE USED TO ACCOMMODATE THE WATER

FROM SECTION 135-307(D), TO ALLOW A MINIMUM ORIFICE SIZE OF LESS THAN 3"

4. FROM SECTION 135-310(B), TO ALLOW FOR ALTERNATIVE EMERGENCY OVERFLOW SYSTEMS TO BE USED IN LIEU OF A CONVENTIONAL EMERGENCY SPILLWAY WITH AN EMBANKMENT WHERE

. FROM SECTION 135-311(C), TO ALLOW THE MINIMUM PIPE SLOPE OF LESS THAN 1% AND TO

6. FROM SECTION 135-311(J), FROM THE BASIN CONSTRUCTION CRITERIA OUTLINED IN THIS SECTION. THE MRC RAINGARDENS ON-SITE HAVE BEEN DESIGNED PER PADEP STANDARDS.



REVISION 1 - 01/17/2025

GENERAL NOTES

- (Rev. 1/2023)
- FHESE PLANS ARE SOLELY BASED ON INFORMATION THE OWNER AND OTHERS PROVIDED TO BOHLER ENGINEERING PA, LLC HEREIN "BOHLER") PRIOR TO THE DATE ON WHICH THE PROFESSIONAL OF RECORD AND BOHLER PREPARED THESE PLANS. THE CONTRACTOR MUST FIELD VERIFY ALL EXISTING CONDITIONS AND IMMEDIATELY NOTIFY BOHLER , IN WRITING, IF ANY ACTUAL SITE CONDITIONS DIFFER FROM THOSE SHOWN ON THESE PLANS, OR IF THE PROPOSED WORK CONFLICTS WITH ANY OTHER SITE FEATURES. THE CONTRACTOR MUST STRICTLY COMPLY WITH THESE NOTES AND ALL SPECIFICATIONS/REPORTS CONTAINED HEREIN. THE CONTRACTOR MUST ENSURE THAT ALL SUBCONTRACTORS FULLY AND COMPLETELY CONFORM TO AND COMPLY WITH THESE REQUIREMENTS. THESE NOTES, AND THE REQUIREMENTS ARTICULATED IN THE NOTES CONTAINED IN ALL THE OTHER DRAWINGS THAT COMPRISE THE PLAN SET OF DRAWINGS. ADDITIONAL
- NOTES AND SPECIFIC PLAN NOTES MAY BE FOUND ON THE INDIVIDUAL PLANS. THESE GENERAL NOTES APPLY TO THIS ENTIRE DOCUMENT PACKAGE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL CONSTRUCTION CONTRACT DOCUMENTS INCLUDING, BUT NOT LIMITED TO, ALL OF THE DRAWINGS AND SPECIFICATIONS ASSOCIATED WITH THE PROJECT WORK SCOPE, PRIOR TO THE INITIATION AND COMMENCEMENT OF CONSTRUCTION PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR MUST CONFIRM WITH THE PROFESSIONAL OF RECORD AND BOHLER THAT THE LATEST EDITION OF THE DOCUMENTS AND/OR REPORTS REFERENCED WITHIN THE PLAN REFERENCES ARE BEING USED FOR CONSTRUCTION.
- HIS IS THE CONTRACTOR'S SOLE AND COMPLETE RESPONSIBILITY PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR MUST ENSURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION IS TO BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED THE CONDITIONS OF APPROVAL TO ALL PLANS AND OTHER DOCUMENTS REVIEWED AND APPROVED BY THE PERMITTING AUTHORITIES AND HAS ALSO CONFIRMED THAT ALL NECESSARY AND REQUIRED PERMITS HAVE BEEN OBTAINED. THE CONTRACTOR MUST HAVE COPIES OF ALL PERMITS AND APPROVALS ON SITE AT ALL TIMES
- E CONTRACTOR MUST ENSURE THAT ALL WORK IS PERFORMED IN ACCORDANCE WITH THESE PLANS, SPECIFICATIONS/REPORTS 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, AND ALL PROVISIONS IN AND CONDITIONS OF THE CONSTRUCTION CONTRACT WITH THE OWNER/DEVELOPER INCLUDING ALL EXHIBITS. ATTACHMENTS AND ADDENDA TO SAME. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR MUST COORDINATE THE BUILDING LAYOUT BY CAREFULLY REVIEWING THE MOST CURRENT ARCHITECTURAL, CIVIL AND STRUCTURAL CONSTRUCTION DOCUMENTS (INCLUDING, BUT NOT LIMITED TO, MECHANICAL, ELECTRICAL, PLUMBING AND FIRE SUPPRESSION PLANS, WHERE APPLICABLE). THE CONTRACTOR MUST IMMEDIATELY NOTIFY OWNER, ARCHITECT
- AND PROFESSIONAL OF RECORD AND BOHLER, IN WRITING, OF ANY CONFLICTS, DISCREPANCIES OR AMBIGUITIES WHICH EXIST BETWEEN THESE PLANS AND ANY OTHER PLANS THAT COMPRISE THE CONSTRUCTION DOCUMENTS. CONTRACTOR MUST REFER TO AND ENSURE COMPLIANCE WITH THE APPROVED ARCHITECTURAL/BUILDING PLANS OF RECORD FOR EXACT LOCATIONS AND DIMENSIONS OF ENTRY/EXIT POINTS. ELEVATIONS. PRECISE BUILDING DIMENSIONS. AND EXACT BUILDING UTILITY LOCATIONS. THE CONTRACTOR MUST FIELD VERIFY ALL DIMENSIONS AND MEASUREMENTS SHOWN ON THESE PLANS. PRIOR TO THE COMMENCEMENT OF
- CONSTRUCTION. THE CONTRACTOR MUST IMMEDIATELY NOTIFY PROFESSIONAL OF RECORD AND BOHLER, 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 RE-DONE OR REPAIRED DUE TO DIMENSIONS, MEASUREMENTS OR GRADES SHOWN INCORRECTLY ON THESE PLANS PRIOR TO BOTH (A) THE CONTRACTOR GIVING PROFESSIONAL OF RECORD AND BOHLER WRITTEN NOTIFICATION OF SAME AND (B) PROFESSIONAL OF RECORD AND BOHLER, THEREAFTER, PROVIDING THE CONTRACTOR WITH WRITTEN AUTHORIZATION TO PROCEED WITH SUCH
- ADDITIONAL WORK. THE CONTRACTOR MUST VERIFY ALL DIMENSIONS AND MEASUREMENTS INCLUDED ON DESIGN DOCUMENTS HEREIN AND MUST NOT SCALE OFF THE DRAWINGS DUE TO POTENTIAL PRINTING INACCURACIES. ALL DIMENSIONS AND MEASUREMENTS ARE TO BE CHECKED AND CONFIRMED BY THE GENERAL CONTRACTOR PRIOR TO PREPARATION OF SHOP DRAWINGS, FABRICATION/ORDERING OF PARTS AND MATERIALS AND COMMENCEMENT OF SITE WORK. SITE PLAN DRAWINGS ARE NOT INTENDED AS SURVEY DOCUMENTS. DIMENSIONS SUPERSEDE GRAPHICAL REPRESENTATIONS. THE CONTRACTOR MUST MAKE CONTRACTOR'S OWN MEASUREMENTS FOR LAYOUT OF IMPROVEMENTS. THE OWNER AND CONTRACTOR MUST BE FAMILIAR WITH AND RESPONSIBLE FOR THE PROCUREMENT OF ANY AND ALL CERTIFICATIONS REQUIRED FOR THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY
- WHEN INCLUDED AS ONE OF THE REFERENCED DOCUMENTS, THE GEOTECHNICAL REPORT, SPECIFICATIONS AND RECOMMENDATIONS SET FORTH THEREIN 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: (A) THE PLANS; AND (B) THE GEOTECHNICAL REPORT AND RECOMMENDATIONS MUST TAKE PRECEDENCE UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS. THE CONTRACTOR MUST NOTIFY THE PROFESSIONAL OF RECORD AND BOHLER. IN WRITING, OF ANY SUCH CONFLICT, DISCREPANCY OR AMBIGUITY BETWEEN THE GEOTECHNICAL REPORT AND PLANS AND SPECIFICATIONS, PRIOR TO PROCEEDING WITH ANY FURTHER WORK. IF A GEOTECHNICAL REPORT WAS NOT CREATED, FIEN THE CONTRACTOR MUST FOLLOW AND COMPLY WITH ALL OF THE REQUIREMENTS OF ANY AND ALL MUNICIPAL, COUNTY, STATE, AND FEDERAL LAWS AND APPLICABLE SPECIFICATIONS WHICH HAVE JURISDICTION OVER THIS PROJECT.
- PROFESSIONAL OF RECORD AND BOHLER ARE NEITHER LIABLE NOR RESPONSIBLE FOR ANY SUBSURFACE CONDITIONS AND FURTHER HAS NO LIABILITY FOR ANY HAZARDOUS MATERIALS HAZARDOUS SUBSTANCES OR POLLUTANTS ON ABOUT OR UNDER THE PROPERTY THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING WHEN AND WHERE 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. ALL OF THIS WORK IS TO BE PERFORMED AT CONTRACTOR'S SOLE COST AND EXPENSE.
- THE CONTRACTOR MUST EXERCISE EXTREME CAUTION 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. THE 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 DEBRIS MUST NOT BE BURIED ON THE SUBJECT SITE. ALL DEMOLITION AND CONSTRUCTION WASTES, UNSUITABLE EXCAVATED MATERIAL, EXCESS
- SOIL AND DEBRIS (SOLID WASTE) MUST BE DISPOSED OF IN ACCORDANCE WITH THE REQUIREMENTS OF ANY AND ALL MUNICIPAL, COUNTY, STATE, AND FEDERAL LAWS AND APPLICABLE CODES WHICH HAVE JURISDICTION OVER THIS PROJECT OR OVER THE CONTRACTOR. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO MAINTAIN RECORDS TO DEMONSTRATE PROPER AND FULLY COMPLIANT DISPOSAL ACTIVITIES. TO BE PROMPTLY PROVIDED TO THE OWNER UPON REQUEST
- THE CONTRACTOR MUST REPAIR. AT CONTRACTOR'S SOLE COST, ALL 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 MUST 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. THE CONTRACTOR MUST BEAR ALL COSTS ASSOCIATED WITH SAME. THE CONTRACTOR MUST, PROMPTLY, DOCUMENT ALL EXISTING DAMAGE AND NOTIFY, IN WRITING, THE OWNER AND THE CONSTRUCTION MANAGER PRIOR TO THE
- START OF CONSTRUCTION THE PROFESSIONAL OF RECORD AND BOHLER ARE NOT RESPONSIBLE FOR AND HAVE NO CONTRACTUAL. LEGAL OR OTHER RESPONSIBILITIES FOR JOB SITE SAFETY JOB SITE SUPERVISION. OR ANYTHING RELATED TO SAME. THE PROFESSIONAL OF RECORD AND BOHLER HAVE NOT BEEN RETAINED TO PERFORM OR TO BE RESPONSIBLE FOR JOB SITE SAFETY, SAME BEING WHOLLY OUTSIDE OF PROFESSIONAL OF RECORD'S AND BOHLER SERVICES AS RELATED TO THE PROJECT. THE PROFESSIONAL OF RECORD AND BOHLER ARE NOT RESPONSIBLE TO IDENTIFY OR REPORT ANY JOB SITE SAFETY ISSUES OR ANY JOB SITE CONDITIONS, AT ANY TIME. THE CONTRACTOR MUST IMMEDIATELY IDENTIFY IN WRITING TO THE PROFESSIONAL OF RECORD AND BOHLER ANY DISCREPANCIES THAT MAY OR
- COULD AFFECT THE PUBLIC SAFETY HEALTH OR GENERAL WELFARE, OR PROJECT COST, IF THE CONTRACTOR PROCEEDS WITH CONSTRUCTION WITHOUT PROVIDING PROPER WRITTEN NOTIFICATION AS DESCRIBED ABOVE. IT WILL BE AT THE CONTRACTOR'S OWN RISK AND, FURTHER, THE CONTRACTOR MUST INDEMNIFY, DEFEND AND HOLD HARMLESS THE PROFESSIONAL OF RECORD AND BOHLER FOR ANY AND ALL DAMAGES, COSTS, NJURIES, ATTORNEY'S FEES AND THE LIKE WHICH RESULT FROM OR ARE IN ANY WAY RELATED TO SAME INCLUDING, BUT NOT LIMITED TO, ANY THIRD PARTY AND FIRST PARTY CLAIMS. THE PROFESSIONAL OF RECORD AND BOHLER ARE NOT RESPONSIBLE FOR ANY INJURY OR DAMAGES RESULTING FROM THE CONTRACTOR'S
- FAILURE TO BUILD OR CONSTRUCT IN STRICT ACCORDANCE WITH THE APPROVED PLANS AND CURRENT CODES RULES STATUTES AND THE LIKE IF THE CONTRACTOR AND/OR OWNER FAIL TO BUILD OR CONSTRUCT IN STRICT ACCORDANCE WITH APPROVED PLANS, RULES, STATUTES, CODES AND THE LIKE, THE CONTRACTOR AND/OR OWNER AGREE TO AND MUST JOINTLY, INDEPENDENTLY, SEPARATELY, AND SEVERALLY INDEMNIFY AND HOLD THE PROFESSIONAL OF RECORD AND BOHLER HARMLESS FOR AND FROM ALL INJURIES, CLAIMS AND DAMAGES THAT PROFESSIONAL OF RECORD AND BOHLER SUFFER AND ANY AND ALL COSTS THAT PROFESSIONAL OF RECORD AND BOHLER INCUR AS RELATED TO SAME. ALL CONTRACTORS MUST CARRY AT LEAST THE MINIMUM AMOUNT OF THE SPECIFIED AND COMMERCIALLY REASONABLE STATUTORY WORKER'S
- PLOYER'S LIABILITY INSURANCE ANI UMBRELLA COVERAGES. ALL CONTRACTORS MUST HAVE THEIR CGL POLICIES ENDORSED TO NAME BOHLER . 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 AS ADDITIONAL NAMED INSUREDS AND TO PROVIDE CONTRACTUAL LIABILITY COVERAGE SUFFICIENT TO INSURE (DEFEND, IF APPLICABLE) AND HOLD HARMLESS AND INDEMNITY OBLIGATIONS ASSUMED AND AGREED TO BY THE CONTRACTOR HEREIN. ALL CONTRACTORS MUST FURNISH BOHLER WITH CERTIFICATIONS OF INSURANCE OR CERTIFICATES OF INSURANCE AS EVIDENCE OF THE REQUIRED INSURANCE COVERAGES PRIOR TO COMMENCING ANY WORK AND UPON RENEWAL OF EACH POLICY DURING THE ENTIRE PERIOD OF CONSTRUCTION AND FOR TWO YEARS AFTER THE COMPLETION OF CONSTRUCTION AND AFTER ALL PERMITS ARE ISSUED, WHICHEVER DATE IS LATER. IN ADDITION, ALL CONTRACTORS AGREE THAT THEY WILL, TO THE FULLEST EXTENT PERMITTED UNDER THE LAW, INDEMNIFY, DEFEND AND HOLD HARMLESS BOHLER 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 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 CONTRACTOR(S), ALL CLAIMS BY THIRD PARTIES AND ALL CLAIMS RELATED TO THE PROJECT. THE CONTRACTOR MUST NOTIFY PROFESSIONAL OF RECORD, IN WRITING, AT LEAST THIRTY (30) DAYS PRIOR TO
- ANY TERMINATION, SUSPENSION OR CHANGE OF ITS INSURANCE HEREUNDER. THE PROFESSIONAL OF RECORD AND BOHLER ARE 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 IN SCOPE AND REVISIONS THAT RESULT FROM SAME. THE CONTRACTOR IS FULLY AND SOLELY SOIL EROSION & SEDIMENT CON RESPONSIBLE FOR DETERMINING THE MEANS AND METHODS FOR COMPLETION OF THE WORK. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. NEITHER THE PROFESSIONAL ACTIVITIES OF BOHLER, NOR THE PRESENCE OF BOHLER 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 (HEREIN "BOHLER PARTIES"), RELIEVES OR WILL RELIEVE THE CONTRACTOR OF AND FROM 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 ALL HEALTH AND SAFETY PRECAUTIONS REQUIRED BY ANY REGULATORY AGENCIES WITH IURISDICTION OVER THE PROJECT AND/OR PROPERTY. BOHLER PARTIES HAVE NO AUTHORITY TO EXERCISE ANY CONTROL OVER (OR ANY RESPONSIBILITY FOR) ANY CONSTRUCTION, THE CONTRACTOR OR ITS EMPLOYEES RELATING TO THEIR WORK AND ANY AND ALL HEALTH AND SAFETY PROGRAMS OR PROCEDURES. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR JOB SITE SAFETY. THE CONTRACTOR MUST INDEMNIFY, DEFEND PROTECT AND HOLD HARMLESS BOHLER PARTIES FOR AND FROM ANY LIABILITY TO BOHLER PARTIES RESULTING FROM THE CONTRACTOR'S WORK. SERVICES AND/OR VIOLATIONS OF THIS NOTE. THESE NOTES OR ANY NOTES IN THE PLAN SET AND. FURTHER. THE CONTRACTOR MUST NAME BOHLER AS AN ADDITIONAL INSURED UNDER THE GENERAL CONTRACTOR'S POLICIES OF GENERAL LIABILITY INSURANCE
- AS DESCRIBED ABOVE. WHEN IT IS CLEARLY AND SPECIFICALLY WITHIN BOHLER'S SCOPE OF SERVICES CONTRACT WITH THE OWNER/DEVELOPER, BOHLER 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 EVALUATING CONFORMANCE WITH THE DESIGN INTENT AND THE INFORMATION SHOWN IN THE CONSTRUCTION CONTRACT DOCUMENTS. CONSTRUCTION MEANS AND 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. BOHLER WILL PERFORM ITS SHOP DRAWING REVIEW WITH REASONABLE PROMPTNESS, AS CONDITIONS PERMIT. ANY DOCUMENT, DOCUMENTING BOHLER'S REVIEW OF A SPECIFIC ITEM O LIMITED SCOPE, MUST NOT INDICATE THAT BOHLER HAS REVIEWED THE ENTIRE ASSEMBLY OF WHICH THE ITEM IS A COMPONENT. BOHLER IS NOT RESPONSIBLE FOR ANY DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR MUST, IN WRITING, PROMPTLY AND IMMEDIATELY BRING ANY DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS TO BOHLER'S ATTENTION. BOHLER IS NOT REQUIRED TO REVIEW PARTIAL SUBMISSIONS OR THOSE FOR WHICH SUBMISSIONS OF CORRELATED ITEMS HAVE NOT BEEN RECEIVED.
- IF THE CONTRACTOR DEVIATES FROM THESE PLANS AND/OR SPECIFICATIONS, INCLUDING THE NOTES CONTAINED HEREIN, WITHOUT FIRST OBTAINING THE PRIOR WRITTEN AUTHORIZATION OF THE PROFESSIONAL OF RECORD AND BOHLER FOR ALL DEVIATIONS WITHIN PROFESSIONAL OF RECORD'S SCOPE, THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE PAYMENT OF ALL COSTS INCURRED IN CORRECTING ANY WORK PERFORMED WHICH DEVIATES FROM THE PLANS, ALL FINES AND/OR PENALTIES ASSESSED WITH RESPECT THERETO AND ALL COMPENSATORY OR PUNITIVE DAMAGES RESULTING THEREFROM AND FURTHER MUST DEFEND INDEMNIEY PROTECT AND HOLD HARMLESS THE PROFESSIONAL OF RECORD AND BOHLER PARTIES TO THE FULLEST EXTENT PERMITTED UNDER THE LAW, FOR AND FROM ALL FEES, ATTORNEYS' FEES, DAMAGES, COSTS, JUDGMENTS, CLAIMS, INJURIES, PENALTIES AND THE LIKE RELATED TO SAME. THE CONTRACTOR IS RESPONSIBLE FOR A MAINTAINING AND PROTECTING THE TRAFFIC CONTROL PLAN AND ELEMENTS IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REQUIREMENTS, FOR ALL WORK THAT AFFECTS PUBLIC TRAVEL EITHER IN THE RIGHT OF WAY OR ON SITE. THE COST
- FOR THIS ITEM MUST BE INCLUDED IN THE CONTRACTOR'S PRICE AND IS THE CONTRACTOR'S SOLE RESPONSIBILITY 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 PLAN(S) AND DESIGN: AND, FURTHER, THE PROFESSIONAL OF RECORD AND BOHLER ARE 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 THE PROFESSIONAL OF RECORD AND BOHLER PARTIES, HARMLESS FOR ALL INJURIES, DAMAGES AND COSTS THAT PROFESSIONAL OF RECORD AND BOHLER INCUR AS A RESULT OF SAID FAILURE OR FAILURE TO PRESERVE. THE CONTRACTOR IS SOLED Y RESPONSIBLE FOR ENSURING THAT ALL CONSTRUCTION ACTIVITIES AND MATERIALS COMPLY WITH AND CONFORM TO APPLICABLE FEDERAL, STATE AND LOCAL RULES AND REGULATIONS, LAWS, ORDINANCES, AND CODES, AND ALL APPLICABLE 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 THE CONTRACTOR MUST STRICTLY COMPLY WITH THE LATEST AND CURRENT OSHA STANDARDS AND REGULATIONS, AND/OR ANY OTHER AGENCY WITH JURISDICTION OVER EXCAVATION AND TRENCHING PROCEDURES. PROFESSIONAL OF RECORD AND BOHLER HAS NO RESPONSIBILITY FOR OR AS RELATED TO EXCAVATION AND TRENCHING PROCEDURES AND WORK
- THE CONTRACTOR AND THE OWNER MUST INSTALL ALL ELEMENTS AND COMPONENTS IN STRICT COMPLIANCE WITH AND IN ACCORDANCE WITH MANUFACTURER'S STANDARDS AND RECOMMENDED INSTALLATION CRITERIA AND SPECIFICATIONS. IF THE CONTRACTOR AND/OR OWNER FAIL TO DO SO, THEY AGREE TO JOINTLY, INDEPENDENTLY, SEPARATELY, COLLECTIVELY, AND SEVERALLY INDEMNIFY, DEFEND, PROTECT AND HOLD PROFESSIONAL OF RECORD AND BOHLER PARTIES HARMLESS FOR ALL INJURIES AND DAMAGES THAT PROFESSIONAL OF RECORD SUFFERS AND COSTS THAT PROFESSIONAL OF RECORD INCURS AS A RESULT OF SAID FAILURE. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN AN ON-SITE STORMWATER POLILITION PREVENTION PLAN (SWPPP) IN COMPLIANCE WITH THE
- ENVIRONMENTAL PROTECTION AGENCY (EPA) REQUIREMENTS OR LOCAL GOVERNING AGENCY FOR SITES WHERE ONE (1) ACRE OR MORE IS DISTURBED BY CONSTRUCTION ACTIVITIES (UNLESS THE LOCAL JURISDICTION REQUIRES A DIFFERENT THRESHOLD). THE CONTRACTOR MUST ENSURE THAT ALL ACTIVITIES, INCLUDING THOSE OF ALL SUBCONTRACTORS, ARE IN COMPLIANCE WITH THE SWPPP, INCLUDING BUT NOT LIMITED OGGING ACTIVITIES (MINIMUM ONCE PER WEEK AND AFTER RAINFALL EVENTS) AND CORRECTIVE MEASURES, AS APPROPRIATE AND FURTHER, THE CONTRACTOR IS SOLELY AND COMPLETELY RESPONSIBLE FOR FAILING TO DO SO AS CONTAINED IN THESE DRAWINGS AND ASSOCIATED DOCUMENTS PREPARED BY THE PROFESSIONAL OF RECORD AND BOHLER. THE LISE OF THE
- WORDS 'CERTIFY' OR 'CERTIFICATION' CONSTITUTE(S) AN EXPRESSION ONLY OF PROFESSIONAL OPINION REGARDING THE INFORMATION WHICH IS THE SUBJECT OF THE PROFESSIONAL OF RECORD'S AND BOHLER KNOWLEDGE OR BELIEF AND IN ACCORDANCE WITH COMMON AND ACCEPTED PROCEDURE CONSISTENT WITH THE APPLICABLE STANDARDS OF PRACTICE, AND DOES NOT CONSTITUTE A WARRANTY OR GUARANTEE OF ANY NATURE OR TYPE, EITHER EXPRESSED OR IMPLIED, UNDER ANY CIRCUMSTANCES.

DEMOLITION NOTES

- THE GENERAL NOTES MUST BE INCLUDED AS PART OF THIS ENTIRE DOCUME DOCUMENTS. THE GENERAL NOTES ARE REFERENCED HEREIN, AND THE C COMPLY WITH THESE NOTES. IN THEIR ENTIRETY. THE CONTRACTOR MUST BE WITH ALL OF THE GENERAL NOTES AND ALL OF THE PLANS' SPECIFIC NOTES. THE CONTRACTOR MUST CONDUCT DEMOLITION/REMOVALS ACTIVITIES IN INTERFERENCE WITH ROADS, STREETS, SIDEWALKS, WALKWAYS, AND ALL O MUST OBTAIN ALL APPLICABLE PERMITS FROM THE APPROPRIATE GO COMMENCEMENT OF ANY ROAD OPENING OR DEMOLITION ACTIVITIES IN OR AD
- WHEN DEMOLITION-RELATED ACTIVITIES IMPACT ROADWAYS AND/OR ROAD PROVIDE TRAFFIC CONTROL AND GENERALLY ACCEPTED SAFE PRACTICES II HIGHWAY ADMINISTRATION "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" REGULATIONS. THE DEMOLITION (AND/OR REMOVALS) PLAN IS INTENDED TO PROVIDE GE
- ONDITIONS REGARDING ITEMS TO BE DEMOLISHED, REMOVED, AND/OR TO REM THE CONTRACTOR MUST ALSO REVIEW ALL CONSTRUCTION DOCUMENTS A ALL INCIDENTAL WORK NECESSARY FOR THE CONSTRUCTION OF THE NEW THIS PLAN IS NOT INTENDED TO AND DOES NOT PROVIDE DIRECTION RE TECHNIQUES AND PROCEDURES TO BE EMPLOYED TO ACCOMPLISH TH ECHNIQUES AND PROCEDURES TO BE USED MUST BE IN STRICT ACCO FEDERAL, LOCAL, AND JURISDICTIONAL REQUIREMENTS. THE CONTRACT SAFETY PRECAUTIONS NECESSARY TO PROVIDE A SAFE WORK SITE FOR TH THE CONTRACTOR MUST PROVIDE ALL "METHODS AND MEANS" NECESSAF
- COLLAPSE OF EXISTING STRUCTURES AND ANY OTHER IMPROVEMENTS CONTRACTOR AT THE CONTRACTOR'S SOLE COST MUST REPAIR ALL DAMA REMAIN. CONTRACTOR MUST USE NEW MATERIAL FOR ALL REPAIRS. RESTORATION OF ALL ITEMS AND FEATURES REPAIRED TO THEIR PRE-DEMOLITI PERFORM ALL REPAIRS AT THE CONTRACTOR'S SOLE EXPENSE. THE PROFESSIONAL OF RECORD AND BOHLER ARE NOT RESPONSIBLE CONTRACTOR MUST PROCEED WITH THE DEMOLITION IN A SYSTEMATIC AN REQUIREMENTS, TO ENSURE PUBLIC AND CONTRACTOR SAFETY AND SAFETY NEAR TO THE SAME.
- THE CONTRACTOR IS RESPONSIBLE FOR JOB SITE SAFETY, WHICH MUST INCL AND MAINTENANCE OF BARRIERS, FENCING, OTHER APPROPRIATE AND/C NECESSARY TO PROTECT THE PUBLIC FROM AREAS OF CONSTRUCTION AND MUST SAFEGUARD THE SITE AS NECESSARY TO PERFORM THE DEMOLITION IN ALL UNAUTHORIZED PERSONS AT ANY TIME. TO OR NEAR THE DEMOLITION ARE PRIOR TO THE COMMENCEMENT OF ANY SITE ACTIVITY AND ANY DEMOLITION
- RAISE ANY QUESTIONS CONCERNING THE ACCURACY OR INTENT OF THESE PLA QUESTIONS REGARDING THE APPLICABLE SAFETY STANDARDS, AND/OR THE PARTIES IN PERFORMING THE WORK ON THIS PROJECT. ANY SUCH CONCERNS RECORD AND BOHLER IN WRITING AND MUST ADDRESS ALL ISSUES AND ITE RECORD AND BY BOHLER. IN WRITING. ALL DEMOLITION ACTIVITIES MUS REQUIREMENTS OF THESE PLANS AND SPECIFICATIONS AND ALL APPLICAB RULES, REQUIREMENTS, STATUTES, ORDINANCES AND CODES. THE CONTRACTOR MUST BECOME FAMILIAR WITH THE APPLICABLE UTILI
- RESPONSIBLE FOR ALL COORDINATION REGARDING UTILITY DEMOLITION AND/ FOR THE PROJECT. THE CONTRACTOR MUST PROVIDE THE OWNER WITH WRI AND SERVICES HAVE BEEN TERMINATED REMOVED AND/OR ABANDONED IN AC COMPANY REQUIREMENTS AND ALL OTHER APPLICABLE REQUIREMENTS, BULE PRIOR TO COMMENCING ANY DEMOLITION, THE CONTRACTOR MUST: A. OBTAIN ALL REQUIRED PERMITS AND MAINTAIN THE SAME ON SITE FOR F ALL PUBLIC AGENCIES WITH JURISDICTION THROUGHOUT THE DURATION
- B NOTIEY AT A MINIMUM THE MUNICIPAL ENGINEER DESIGN ENGINEER AN LEAST 72 BUSINESS HOURS PRIOR TO THE COMMENCEMENT OF WORK. INSTALL THE REQUIRED SOIL EROSION AND SEDIMENT CONTROL MEASURI SAID CONTROLS UNTIL SITE IS STABILIZED
- IN ACCORDANCE WITH STATE LAW, THE CONTRACTOR MUST CALL THE STAT UTILITY MARK OUT, IN ADVANCE OF ANY EXCAVATION. LOCATE AND PROTECT ALL UTILITIES AND SERVICES. INCLUDING BUT NO AND STORM SEWER, TELEPHONE, CABLE, FIBER OPTIC CABLE, ETC, WIT ACTIVITIES. THE CONTRACTOR MUST USE AND COMPLY WITH THE NOTIFICATION SYSTEM TO LOCATE ALL UNDERGROUND UTILITIES. PROTECT AND MAINTAIN IN OPERATION, ALL ACTIVE UTILITIES AND SYSTEM
- DEMOLITION ACTIVITIES ARRANGE FOR AND COORDINATE WITH THE APPLICABLE UTILITY SE PERMANENT TERMINATION OF SERVICE REQUIRED BY THE PROJECT METHODS AND MEANS TO CONSTRUCT SAME. THESE ARE NOT TH RESPONSIBILITY. IN THE EVENT OF ABANDONMENT, THE CONTRACTOR MU WITH IMMEDIATE WRITTEN NOTIFICATION THAT THE EXISTING UTILITIES ABANDONED IN ACCORDANCE WITH JURISDICTIONAL AND UTILITY COMPAN ARRANGE FOR AND COORDINATE WITH THE APPLICABLE UTILITY SERVICE HOURS OR ON WEEKENDS AS NECESSARY OR AS REQUIRED TO MINIMIZ
- PARTIES. WORK REQUIRED TO BE PERFORMED "OFF-PEAK" IS TO BE PERFO IN THE EVENT THE CONTRACTOR DISCOVERS ANY HAZARDOUS MATERIAL THE PROJECT PLANS AND SPECIFICATIONS OR THE CONTRACT WITH TH IMMEDIATELY CEASE ALL WORK IN THE AREA OF DISCOVERY, AND IMMED OWNER, PROFESSIONAL OF RECORD AND BOHLER, THE DISCOVERY C COMPLIANT REMOVAL OF SAME. THE CONTRACTOR MUST NOT PERFORM ANY EARTH MOVEMENT ACTIVITIES, DE FOOTINGS, OR OTHER MATERIALS WITHIN THE LIMITS OF DISTURBANCE, U CONFORMANCE WITH THE PROJECT PLANS AND SPECIFICATIONS, OR PURSUAI STRUCTURAL OR GEOTECHNICAL ENGINEER. DEMOLITION ACTIVITIES AND EQUIPMENT MUST NOT USE OR INCLUDE ARE
- WITHOUT SPECIFIC WRITTEN PERMISSION AND AUTHORITY OF AND FROM T WITH JURISDICTION. THE CONTRACTOR MUST BACKFILL ALL EXCAVATION RESULTING FROM, OR IN MUST BE ACCOMPLISHED WITH APPROVED BACKFILL MATERIALS AND MUST NEW IMPROVEMENTS AND MUST BE PERFORMED IN COMPLIANCE WITH THE RE IN THE GEOTECHNICAL REPORT BACKELLING MUST OCCUR IMMEDIATELY PERFORMED SO AS TO PREVENT WATER ENTERING THE EXCAVATION. FINISH
- POSITIVE DRAINAGE THE CONTRACTOR IS RESPONSIBLE FOR COMPACTION RESULTS TO THE PROFESSIONAL OF RECORD AND THE OWNER. EXPLOSIVES MUST NOT BE USED WITHOUT PRIOR WRITTEN CONSENT FF NECESSARY AND REQUIRED GOVERNMENTAL AUTHORITIES. PRIOR TO COMME DEMOLITION ACTIVITIES, THE CONTRACTOR MUST ENSURE AND OVERSEE THE AND EXPLOSIVE CONTROL MEASURES THAT THE FEDERAL STATE AND LOCA
- ALSO RESPONSIBLE TO CONDUCT AND PERFORM ALL INSPECTION AND SEIS MONITOR THE EFFECTS ON ALL LOCAL STRUCTURES AND THE LIKE. 15. IN ACCORDANCE WITH FEDERAL, STATE, AND/OR LOCAL STANDARDS, THE CON TO LIMIT AIRBORNE DUST AND DIRT RISING AND SCATTERING IN THE AI CONTRACTOR MUST CLEAN ALL ADJACENT STRUCTURES AND IMPROVEMENTS DEMOLITION OPERATIONS CAUSE. THE CONTRACTOR IS RESPONSIBLE FOR
- "PRE-DEMOLITION" CONDITION AT CONTRACTOR'S SOLE COST 16. PAVEMENT MUST BE SAW CUT IN STRAIGHT LINES. ALL DEBRIS FROM REMOV SITE AT THE TIME OF EXCAVATION. STOCKPILING OF DEBRIS OUTSIDE OF INCLUDING BUT NOT LIMITED TO, THE PUBLIC RIGHT-OF-WAY. 17. THE CONTRACTOR MUST MAINTAIN A RECORD SET OF PLANS WHICH INDICATES CAPPED. ABANDONED IN PLACE. OR RELOCATED DUE TO DEMOLITION AG PREPARED IN A NEAT AND WORKMAN-LIKE MANNER AND TURNED OVER TO THE WORK, ALL OF WHICH IS AT THE CONTRACTOR'S SOLE COST.
- THE CONTRACTOR MUST EMPTY, CLEAN AND REMOVE FROM THE SITE ALL UND IN ACCORDANCE WITH FEDERAL, STATE, COUNTY AND LOCAL REQUIREMENT AREA AROUND THE TANK WHICH EMPTYING, CLEANING AND REMOVAL ARE AT T

- (Rev. 4/2023) THE GENERAL NOTES MUST BE INCLUDED AS PART OF THIS ENTIRE DOCUMENT DOCUMENTS. THE GENERAL NOTES ARE REFERENCED HEREIN, AND THE CO OMPLY WITH THESE NOTES. IN THEIR ENTIRETY, THE CONTRACTOR MUST BE WITH ALL OF THE GENERAL NOTES AND ALL OF THE PLANS' SPECIFIC NOTES.
- FROSION CONTROL MEASURES MUST CONFORM TO THE PENNSYLVANIA CONTROL UNLESS OTHERWISE NOTED, OR UNLESS THE PROFESSIONAL OF RE DIRECTS OTHERWISE. INSTALLATION OF EROSION CONTROL, CLEARING, AND INDICATED IN THE EROSION CONTROL CONSTRUCTION NOTES. THE DISTURBED LAND AREA OF THIS SITE IS APPROXIMATELY 14.85ACRES.
- INSTALLATION OF EROSION CONTROL DEVICES MUST BE IN ACCORD/ RECOMMENDATIONS THE CONTRACTOR MUST INSPECT EROSION CONTROL MEASURES WEEKLY DEPOSITS GREATER THAN 6" COLLECTED ON THE FILTER FABRIC AND/OR SIL
- ANY SILT FROM DROP INLET PROTECTION. THE CONTRACTOR MUST APPLY TEMPORARY SEED AND MULCH TO ALL DIST FINISHED GRADE AND VEGETATED WITHIN 7 DAYS. WHEN AREAS ARE DIS CONTRACTOR MUST STABILIZE SAME WITH GEOTEXTILE FABRIC AND MAINTA MANAGEMENT PRACTICES.
- THE CONTRACTOR MUST INSTALL ADDITIONAL EROSION CONTROL MEASURES IF O PREVENT ANY, INCLUDING THE INCIDENTAL, DISCHARGE OF SILT-LADEN RUNG THE CONTRACTOR MUST BE RESPONSIBLE FOR INSPECTING AND MAINTAINING JNTIL PERMANENT PAVING AND TURF/LANDSCAPING IS ESTABLISHED. THE EROSION CONTROL MEASURES MUST BE INCLUDED IN THE BID PRICE FOR
- RESPONSIBLE FOR ALL SUCH COSTS THE CONTRACTOR MUST CONTINUE TO MAINTAIN ALL EROSION CONTR CONSTRUCTION AND THE ESTABLISHMENT OF VEGETATION. THE CONTRACTOR MUST REMOVE EROSION CONTROL MEASURES. SILT A /EGETATION COVER OR OTHER INSTALLING A DIFFERENT, SPECIFIED METHOD C
- THIS PLAN REPRESENTS THE MINIMUM LEVEL OF IMPLEMENTATION OF TEMPO FACILITIES MEASURES AND STRUCTURES ADDITIONAL FACILITIES MEASURES NECESSARY TO COMPLY WITH ALL APPLICABLE CODES AND STANDARDS AND/O DISCHARGE OF SILT-LADEN RUNOFF FROM EXITING THE SITE. THE CONTRACTOR MUST PROTECT ALL EXISTING TREES AND SHRUBS. THE AND/OR DEMOLITION PLAN(S) FOR TREE PROTECTION, FENCE LOCATIONS AND D THE CONTRACTOR MUST REFER TO GRADING PLANS FOR ADDITIONAL INFORMAT THE CONTRACTOR MUST CLEAN EXISTING AND PROPOSED DRAINAGE STRU
- OFF-SITE AS THE JURISDICTIONAL AGENCY REQUIRES. BOTH AT THE TIME OF SIT . SOIL EROSION CONTROL MEASURES MUST BE ADJUSTED OR RELOCATED BY OBSERVATION IN ORDER TO MAINTAIN THE COMPLETE EFFECTIVENESS OF ALL THE CONTRACTOR MUST IDENTIFY, ON THE PLAN, THE LOCATION OF WASTE WASHOUT AREAS AND ANY OTHER LOCATIONS WHERE HAZARDOUS MATERIALS

- THE GENERAL NOTES MUST BE INCLUDED AS PART OF THIS ENTIRE DOCUMENT DOCUMENTS. THE GENERAL NOTES ARE REFERENCED HEREIN, AND THE CO COMPLY WITH THESE NOTES, IN THEIR ENTIRETY. THE CONTRACTOR MUST BE I WITH ALL OF THE GENERAL NOTES AND ALL OF THE PLANS' SPECIFIC NOTES. PRIOR TO THE COMMENCEMENT OF GENERAL CONSTRUCTION THE CONTRACT ANY STORMWATER POLLUTION PREVENTION PLAN (SWPPP) MEASURES NECE EROSION AND SEDIMENT CONTROL PLAN AND IN ACCORDANCE WITH APPLICABL O PREVENT SEDIMENT AND/OR LOOSE DEBRIS FROM WASHING ONTO ADJACE!
- ALL DIRECTIONAL/TRAFFIC SIGNING AND PAVEMENT STRIPING MUST CONFORM UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND ANY APPLICABLE ST
- GUIDELINES BUI ES REGULATIONS STANDARDS AND THE LIKE THE LOCATIONS OF PROPOSED UTILITY POLES AND TRAFFIC SIGNS SHOWN ON
- RELOCATION OF TRAFFIC SIGNS WITH THE ENTITY WITH JURISDICTION OVER THE PROJECT. ALL DIMENSIONS SHOWN ARE TO BOTTOM FACE OF CURB, EDGE OF PAVEMENT, OR EDGE OF BUILDING, EXCEPT WHEN DETAIL, SPECIFICATION OR DESIGN THAT HAS NOT BEEN DESIGNED OR CONSTRUCTED BY THE "BOHLER" ENTITY AND REGARDING DIMENSION IS TO A PROPERTY LINE, STAKE OUT OF LOCATIONS OF INLETS, LIGHT POLES, ETC. MUST BE PERFORMED IN STRICT WHICH THE "BOHLER" ENTITY HAS NO CONTROL OVER OR LIABILITY REGARDING, BUT IS ADDED TO THIS PLAN FOR INFORMATIONAL
- ACCORDANCE WITH THE DETAILS, UNLESS NOTED CLEARLY OTHERWISE.

			BREVIATIONS	
NT PACKAGE AND ARE PART OF THE CONTRACT INTRACTOR MUST REFER TO THEM AND FULLY	DOCUMENTS. THE GENERAL NOTES ARE REFERENCED HEREIN, AND THE CONTRACTOR MUST REFER TO THEM AND FULLY	FO	R ENTIRE PLAN SET	M
FAMILIAR WITH AND ACKNOWLEDGE FAMILIARITY	COMPLY WITH THESE NOTES, IN THEIR ENTIRETY. THE CONTRACTOR MUST BE FAMILIAR WITH AND ACKNOWLEDGE FAMILIARITY WITH ALL OF THE GENERAL NOTES AND ALL OF THE PLANS' SPECIFIC NOTES.		AMERICAN ASSOCIATION OF	M
I SUCH A MANNER AS TO ENSURE MINIMUM THER ADJACENT FACILITIES. THE CONTRACTOR	SET FORTH IN THE GEOTECHNICAL REPORT AS REFERENCED IN THIS PLAN SET. IF NO GEOTECHNICAL REPORT HAS BEEN	AASHTO	STATE HIGHWAY AND TRANSPORTATION OFFICIALS	M
VERNMENTAL AUTHORITY(IES) PRIOR TO THE JACENT TO THE RIGHT-OF-WAY.	REFERENCED, THE CONTRACTOR MUST HAVE A GEOTECHNICAL ENGINEER PROVIDE WRITTEN SPECIFICATIONS AND RECOMMENDATIONS PRIOR TO THE CONTRACTOR COMMENCING THE GRADING WORK. THE CONTRACTOR MUST FOLLOW THE	AC	ACRE / ACRES	М
WAY RIGHT-OF-WAY, THE CONTRACTOR MUST N CONFORMANCE WITH THE CURRENT FEDERAL	REQUIREMENTS OF ALL MUNICIPAL, COUNTY, STATE, AND FEDERAL LAWS, WHICH HAVE JURISDICTION OVER THIS PROJECT. 3. THE CONTRACTOR IS REQUIRED TO SECURE ALL NECESSARY AND/OR REQUIRED PERMITS AND APPROVALS FOR ALL OFF-SITE	AD	AREA DRAIN	N
' (MUTCD), AND THE FEDERAL, STATE, AND LOCAL	MATERIAL SOURCES AND DISPOSAL FACILITIES. THE CONTRACTOR MUST SUPPLY A COPY OF APPROVALS TO THE PROFESSIONAL OF RECORD, BOHLER AND THE OWNER PRIOR TO THE CONTRACTOR COMMENCING ANY WORK.		ACCESSIBLE / AMERICANS	MU
ENERAL INFORMATION AND TO IDENTIFY ONLY MAIN.	4. THE CONTRACTOR IS FULLY RESPONSIBLE FOR VERIFYING EXISTING TOPOGRAPHIC INFORMATION AND UTILITY INVERT ELEVATIONS PRIOR TO COMMENCING ANY CONSTRUCTION. SHOULD DISCREPANCIES BETWEEN THE PLANS AND INFORMATION	ADA	WITH DISABILITIES ACT	
ND INCLUDE WITHIN THE DEMOLITION ACTIVITIES SITE IMPROVEMENTS.	OBTAINED THROUGH FIELD VERIFICATIONS BE IDENTIFIED OR EXIST, THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE PROFESSIONAL OF RECORD AND BOHLER, IN WRITING.	AG	ABOVE GROUND	NO
	 THE CONTRACTOR IS RESPONSIBLE FOR REMOVING AND REPLACING ALL UNSUITABLE MATERIALS WITH SUITABLE MATERIALS AS SPECIFIED IN THE GEOTECHNICAL REPORT. THE CONTRACTOR MUST COMPACT ALL EXCAVATED OR FILLED AREAS IN STRICT 	APPROX	APPROXIMATE	
OR MUST COMPLY WITH ALL OSHA AND OTHER	ACCORDANCE WITH THE GEOTECHNICAL REPORT'S GUIDANCE. MOISTURE CONTENT AT TIME OF PLACEMENT MUST BE SUBMITTED IN A COMPACTION REPORT PREPARED BY A QUALIFIED GEOTECHNICAL ENGINEER, REGISTERED WITH THE STATE	ARCH	ARCHITECTURAL	NR
HE CONTRACTOR AND THE PUBLIC. XY TO PREVENT MOVEMENT. SETTLEMENT. OR	WHERE THE WORK IS PERFORMED. THIS REPORT MUST VERIFY 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	ASPH	ASPHALT	08
THAT ARE REMAINING ON OR OFF SITE. THE	AND THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL REPORT AND ALL APPLICABLE REQUIREMENTS, RULES, STATUTES, LAWS, ORDINANCES AND CODES WHICH ARE IN EFFECT AND WHICH ARE APPLICABLE TO THE PROJECT. SUBBASE	ASSF	AREA SUBJECT TO STORMWATER FLOWAGE	
CONTRACTOR'S REPAIRS MUST INCLUDE THE ION CONDITION, OR BETTER. CONTRACTOR MUST	MATERIAL FOR SIDEWALKS, CURB, OR ASPHALT MUST BE FREE OF ORGANICS AND OTHER UNSUITABLE MATERIALS. SHOULD SUBBASE BE DEEMED UNSUITABLE BY OWNER/DEVELOPER, OR OWNER/DEVELOPER'S REPRESENTATIVE, SUBBASE MUST BE	ASSOC	ASSOCIATION	
	REMOVED AND FILLED WITH APPROVED FILL MATERIAL, COMPACTED AS THE GEOTECHNICAL REPORT DIRECTS. EARTHWORK ACTIVITIES INCLUDING, BUT NOT LIMITED TO, EXCAVATION, BACKFILL, AND COMPACTING MUST COMPLY WITH THE	BC	BOTTOM OF CURB	0
FOR JOB SITE SAFETY OR SUPERVISION. THE ID SAFE MANNER, COMPLYING WITH ALL OSHA	RECOMMENDATIONS IN THE GEOTECHNICAL REPORT AND ALL APPLICABLE REQUIREMENTS, RULES, STATUTES, LAWS,	BF	BASEMENT FLOOR	00
O ALL PROPERTY ON THE SITE OR ADJACENT OR	ORDINANCES AND CODES. EARTHWORK ACTIVITIES MUST COMPLY WITH THE STANDARD STATE DOT SPECIFICATIONS FOR ROADWAY CONSTRUCTION (LATEST EDITION) AND ANY AMENDMENTS OR REVISIONS THERETO.	BIO	BIOGARDEN	OF
UDE, BUT IS NOT LIMITED TO, THE INSTALLATION R NECESSARY SAFETY FEATURES AND ITEMS	PLAN TAKES PRECEDENCE AND CONTROLS. THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE PROFESSIONAL OF RECORD	BIT	BITUMINOUS	PA/
CONSTRUCTION ACTIVITIES. THE CONTRACTOR SUCH A MANNER AS TO PREVENT THE ENTRY OF		BK	BLOCK	Р
A. ACTIVITY, THE CONTRACTOR MUST, IN WRITING,	PROPOSED GRADING, AND TO BACKFILL EXCAVATIONS FOR THE INSTALLATION OF UNDERGROUND IMPROVEMENTS.	BL	BASELINE	PC
ANS AND/OR SPECIFICATIONS, ALL CONCERNS OR E SAFETY OF THE CONTRACTOR AND/OR THIRD	ACCESSIBILITY DESIGN GUIDELINES (Rev. 1/2023)	BLDG	BUILDING	PE
MUST BE CONVEYED TO THE PROFESSIONAL OF MS RESPONDED TO, BY THE PROFESSIONAL OF	1. ALL ACCESSIBLE (A.K.A. ADA) COMPONENTS AND ACCESSIBLE ROUTES MUST BE CONSTRUCTED TO MEET, AT A MINIMUM, THE	BM	BENCH MARK	
F BE PERFORMED IN ACCORDANCE WITH THE LE FEDERAL, STATE AND LOCAL REGULATIONS,	MORE STRINGENT OF: (A) THE REQUIREMENTS OF THE "AMERICANS WITH DISABILITIES ACT" (ADA) CODE (42 U.S.C. § 12101 ET SEQ. AND 42 U.S.C. § 4151 ET SEQ.); AND (B) ANY APPLICABLE LOCAL AND STATE GUIDELINES, AND ANY AND ALL AMENDMENTS	BRL	BUILDING RESTRICTION LINE	
Y SERVICE PROVIDER REQUIREMENTS AND IS	TO BOTH, WHICH ARE IN EFFECT WHEN THESE PLANS WERE COMPLETED. 2. THE CONTRACTOR MUST REVIEW ALL DOCUMENTS REFERENCED IN THESE NOTES FOR ACCURACY, COMPLIANCE AND	BVW	BORDERING VEGETATIVE WETLAND	P(
OR DISCONNECTION AS IDENTIFIED OR REQUIRED TEN NOTIFICATION THAT THE EXISTING UTILITIES	CONSISTENCY WITH INDUSTRY GUIDELINES. 3. THE CONTRACTOR MUST EXERCISE APPROPRIATE CARE AND PRECISION IN CONSTRUCTION OF ACCESSIBLE (ADA)	СВ	CATCH BASIN	
CORDANCE WITH THE JURISDICTION AND UTILITY S, STATUTES, LAWS, ORDINANCES AND CODES.	COMPONENTS AND ACCESSIBLE ROUTES FOR THE SITE. FINISHED SURFACES ALONG THE ACCESSIBLE ROUTE OF TRAVEL FROM PARKING SPACES, PUBLIC TRANSPORTATION, PEDESTRIAN ACCESS, AND INTER-BUILDING ACCESS, TO POINTS OF ACCESSIBLE	CF		PR
REVIEW BY THE PROFESSIONAL OF RECORD AND	BUILDING ENTRANCE/EXIT, MUST COMPLY WITH THE ACCESSIBLE GUIDELINES AND REQUIREMENTS WHICH INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:	CI	CURB INLET	
OF THE PROJECT, SITE WORK, AND DEMOLITION	A. ACCESSIBLE <u>PARKING SPACES</u> AND <u>ACCESS AISLES</u> SLOPES MUST NOT EXCEED 1:50 (2.0%) IN ANY DIRECTION. B. PATH OF TRAVEL ALONG ACCESSIBLE ROUTE MUST PROVIDE A 36-INCHES MINIMUM WIDTH (48-INCHES PREFERRED), OR AS	CIT	CHANGE IN TYPE	
D LOCAL SOIL CONSERVATION JURISDICTION, AT	SPECIFIED BY THE GOVERNING AGENCY. UNOBSTRUCTED WIDTH OF TRAVEL (CAR OVERHANGS AND/OR HANDRAILS) MUST NOT REDUCE THIS MINIMUM WIDTH. THE SLOPE MUST NOT EXCEED 1:20 (5.0%) IN THE DIRECTION OF TRAVEL AND MUST NOT	CL	CENTER LINE	_ PT
ES PRIOR TO SITE DISTURBANCE, AND MAINTAIN	EXCEED 1:50 (2.0%) IN CROSS SLOPE. WHERE ACCESSIBLE PATH OF TRAVEL IS GREATER THAN 1:20 (5.0%), AN ACCESSIBLE RAMP MUST BE PROVIDED. ALONG THE ACCESSIBLE PATH OF TRAVEL. OPENINGS MUST NOT EXCEED 1/2-INCH IN WIDTH.	CMP	CORRUGATED METAL PIPE	- P
TE ONE-CALL DAMAGE PROTECTION SYSTEM FOR	VERTICAL CHANGES OF UP TO 1/2-INCH ARE PERMITTED ONLY IF THEY INCLUDES A 1/4-INCH BEVEL AT A SLOPE NOT STEEPER THAN 1:2. NO VERTICAL CHANGES OVER 1/4-INCH ARE PERMITTED.	CO	CLEAN OUT	PV
T LIMITED TO GAS, WATER, ELECTRIC, SANITARY HIN AND ADJACENT TO THE LIMITS OF PROJECT	 C. ACCESSIBLE RAMPS MUST NOT EXCEED A SLOPE OF 1:12 (8.3%) AND A RISE OF 30-INCHES. LEVEL LANDINGS MUST BE PROVIDED AT EACH END OF ACCESSIBLE RAMPS. LANDING MUST PROVIDE POSITIVE DRAINAGE AWAY FROM STRUCTURES. 	CONC	CONCRETE	P\
REQUIREMENTS OF THE APPLICABLE UTILITY	AND MUST NOT EXCEED 1:50 (2.0%) SLOPE IN ANY DIRECTION. RAMPS THAT CHANGE AWAT FROM STRUCTURES, LANDINGS MUST HAVE A CLEAR LANDING OF A MINIMUM OF 60-INCHES BY 60-INCHES, HAND RAILS ON BOTH SIDES OF THE	CONN	CONNECTION	1
MS THAT ARE NOT BEING REMOVED DURING ANY	RAMP MUST BE PROVIDED ON AN ACCESSIBLE RAMP WITH A RISE GREATER THAN 6-INCHES. D. ACCESSIBLE CURB RAMPS MUST NOT EXCEED A SLOPE OF 1:12 (8.3%). WHERE FLARED SIDES ARE PROVIDED, THEY MUST	COORD	COORDINATE	- F
RVICE PROVIDER(S) FOR THE TEMPORARY OR	NOT EXCEED 1:10 (10%) SLOPE. LEVEL LANDING MUST BE PROVIDED AT RAMPS TOP AT A MINIMUM OF 36-INCHES LONG	CPP	CORRUGATED PLASTIC PIPE	R/
PLANS AND SPECIFICATIONS REGARDING THE E PROFESSIONAL OF RECORD'S OR BOHLER	(48-INCHES PREFERRED). IN ALTERATIONS, WHEN THERE IS NO LANDING AT THE TOP, <u>FLARE SIDES</u> SLOPES MUST NOT EXCEED A SLOPE OF 1:12 (8.3%).	CY	CUBIC YARD	R
ST PROVIDE THE UTILITY ENGINEER AND OWNER AND SERVICES HAVE BEEN TERMINATED AND	E. <u>DOORWAY LANDINGS</u> AREAS MUST BE PROVIDED ON THE EXTERIOR SIDE OF ANY DOOR LEADING TO AN ACCESSIBLE PATH OF TRAVEL. THIS LANDING MUST BE SLOPED AWAY FROM THE DOOR NO MORE THAN 1:50 (2.0%) FOR POSITIVE DRAINAGE.	DEC	DECORATIVE	R
Y REQUIREMENTS. PROVIDER(S) REGARDING WORKING "OFF-PEAK"	THIS LANDING AREA MUST BE NO FEWER THAN 60-INCHES (5 FEET) LONG, EXCEPT WHERE OTHERWISE CLEARLY PERMITTED BY ACCESSIBLE STANDARDS FOR ALTERNATIVE DOORWAY OPENING CONDITIONS. (SEE ICC/ANSI A117.1-2009 AND OTHER	DEP	DEPARTMENT OF	RE
ZE THE IMPACT ON, OF, AND TO THE AFFECTED RMED AT NO ADDITIONAL COST TO THE OWNER.	REFERENCES INCORPORATED BY CODE). F. WHEN THE PROPOSED CONSTRUCTION INVOLVES RECONSTRUCTION, MODIFICATION, REVISION OR EXTENSION OF OR TO		ENVIRONMENTAL PROTECTION	RE
THE REMOVAL OF WHICH IS NOT ADDRESSED IN E OWNER/DEVELOPER, THE CONTRACTOR MUST	ACCESSIBLE COMPONENTS FROM EXISTING DOORWAYS OR SURFACES, THE CONTRACTOR MUST VERIFY ALL EXISTING ELEVATIONS SHOWN ON THE PLAN. NOTE THAT TABLE 405.2 OF THE DEPARTMENT OF JUSTICE'S ADA STANDARDS FOR	DET	DETENTION	RE
NATELY NOTIFY, IN WRITING AND VERBALLY, THE F SUCH MATERIALS TO PURSUE PROPER AND	ACCESSIBLE DESIGN ALLOWS FOR STEEPER RAMP SLOPES, IN RARE CIRCUMSTANCES. THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE PROFESSIONAL OF RECORD AND BOHLER, IN WRITING, OF ANY DISCREPANCIES AND/OR FIELD	DIA	DIAMETER	RI
EMOLITION OR REMOVAL OF FOUNDATION WALLS,	CONDITIONS THAT DIFFER IN ANY WAY OR IN ANY RESPECT FROM WHAT IS SHOWN ON THE PLANS BEFORE COMMENCING ANY WORK. CONSTRUCTED IMPROVEMENTS MUST FALL WITHIN THE MAXIMUM AND MINIMUM LIMITATIONS IMPOSED BY THE	DMH	DRAINAGE MANHOLE	R
INLESS SAME IS IN STRICT ACCORDANCE AND T TO THE WRITTEN DIRECTION OF THE OWNER'S	BARRIER FREE REGULATIONS AND THE ACCESSIBLE GUIDELINES. G. THE CONTRACTOR MUST VERIFY ALL OF THE SLOPES OF THE CONTRACTOR'S FORMS PRIOR TO POURING CONCRETE. IF	DOM	DOMESTIC	W/
AS OUTSIDE THE DEFINED PROJECT LIMIT LINE,	ANY NON-CONFORMANCE EXISTS OR IS OBSERVED OR DISCOVERED, THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE PROFESSIONAL OF RECORD AND BOHLER, IN WRITING, PRIOR TO POURING CONCRETE. THE CONTRACTOR IS SOLELY	DOT	DEPARTMENT OF TRANSPORTATION	RE
HE OWNER AND ALL GOVERNMENTAL AGENCIES	RESPONSIBLE FOR ALL COSTS TO REMOVE, REPAIR AND/OR REPLACE NON-CONFORMING CONCRETE AND/OR PAVEMENT SURFACES.	DP	DESIGN POINT	
CIDENTAL TO, DEMOLITION ACTIVITIES. BACKFILL BE SUFFICIENTLY COMPACTED TO SUPPORT ALL	4. IT IS STRONGLY RECOMMENDED THAT THE CONTRACTOR REVIEW THE INTENDED CONSTRUCTION TO ENSURE SAME IS CONSISTENT WITH THE LOCAL BUILDING CODE PRIOR TO COMMENCING CONSTRUCTION.	DWL	DASHED WHITE LINE	
ECOMMENDATIONS AND GUIDANCE ARTICULATED AFTER DEMOLITION ACTIVITIES AND MUST BE	DRAINAGE AND LITH ITY NOTES	DYL	DOUBLE YELLOW LINE	
ED SURFACES MUST BE GRADED TO PROMOTE	DRAINAGE AND UTILITY NOTES (Rev. 3/2023)			SE
ESTING AND MUST SUBMIT SUCH REPORTS AND		EG	EXISTING GRADE	
	1. THE GENERAL NOTES MUST BE INCLUDED AS PART OF THIS ENTIRE DOCUMENT PACKAGE AND ARE PART OF THE CONTRACT	EG ELEC	EXISTING GRADE ELECTRIC	s
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GRADING NOTES

(Rev. 1/2023)

THE CONTRACTOR IS SOLELY RESPONSIBLE FOR FIELD-VERIFYING THEIR LOCATION. THE CONTRACTOR MUST COORDINATE THE REPORT, DOCUMENT AND DETAIL. REFERENCES ON THIS PLAN TO INFORMATION PREPARED OR CONTAINED IN BY OTHERS ADDITIONAL NOILS

PURPOSES, ONLY.

REPORTS, DOCUMENTS AND DETAILS DEPICTING AN OFF-SITE AREA WHERE NO DETAIL IS INCLUDED IS A REFERENCE TO AN AREA, AFTER CONSTRUCTION IS COMPLETED, AS-BUILT PLAI

STANDARI

(Rev. 1/2023)

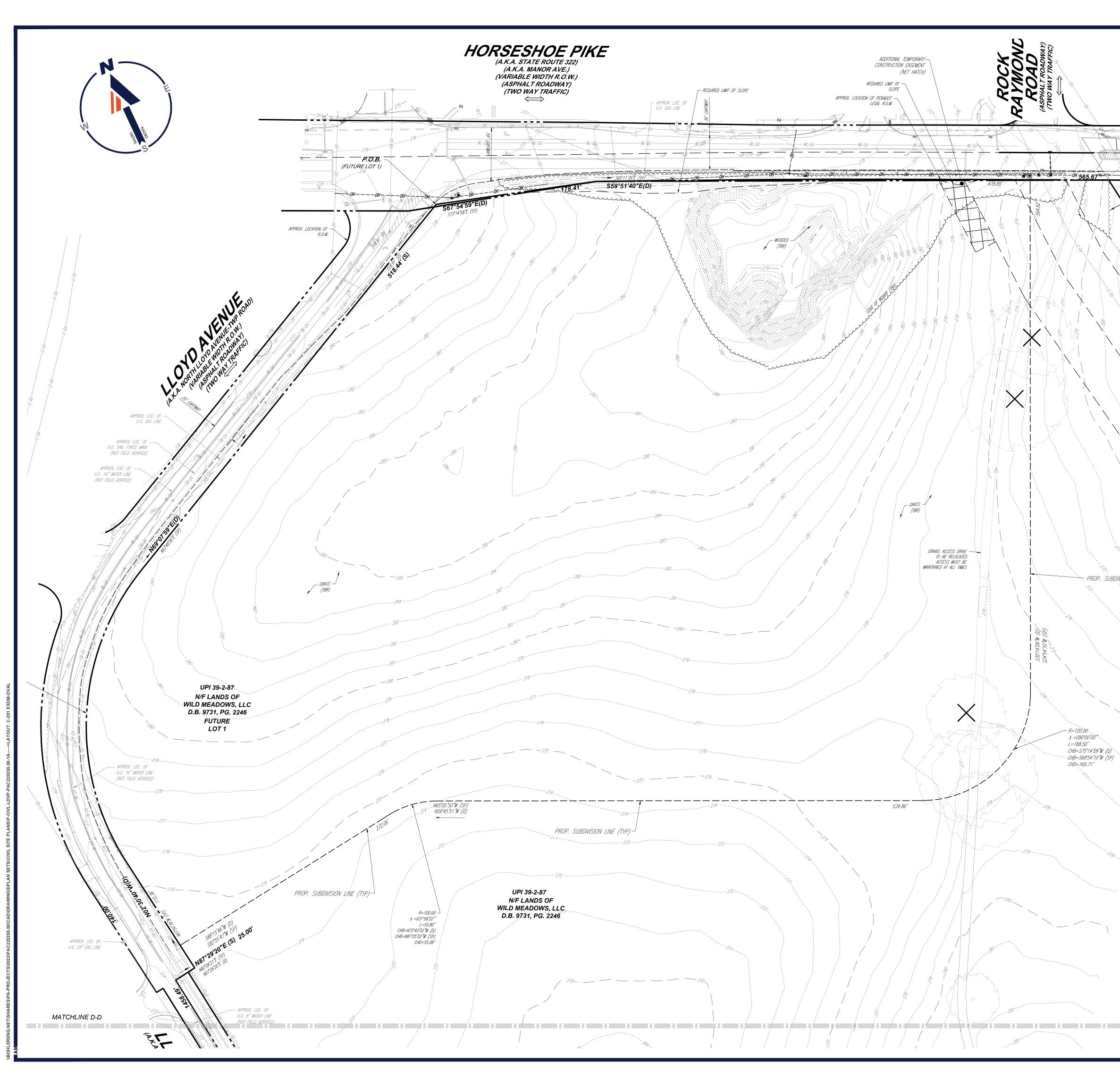
ACCORDANCE TO SECTIONS §137-54 AND §135-502. PERMANENT MARKERS AND MONUMENTS WILL BE INS

3. IF PUBLIC WATER AND SEWERS ARE AVAILABLE, PUBL

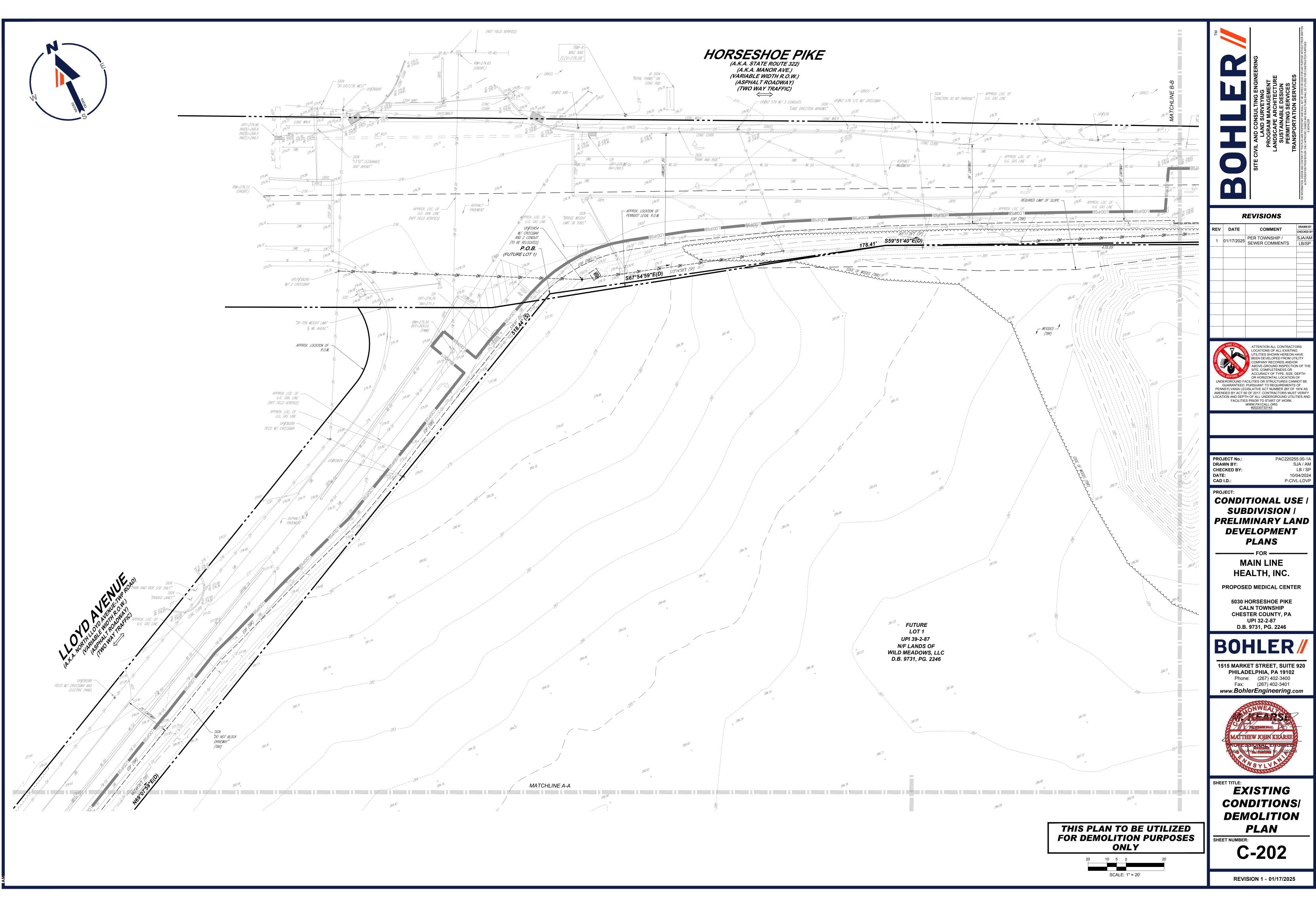
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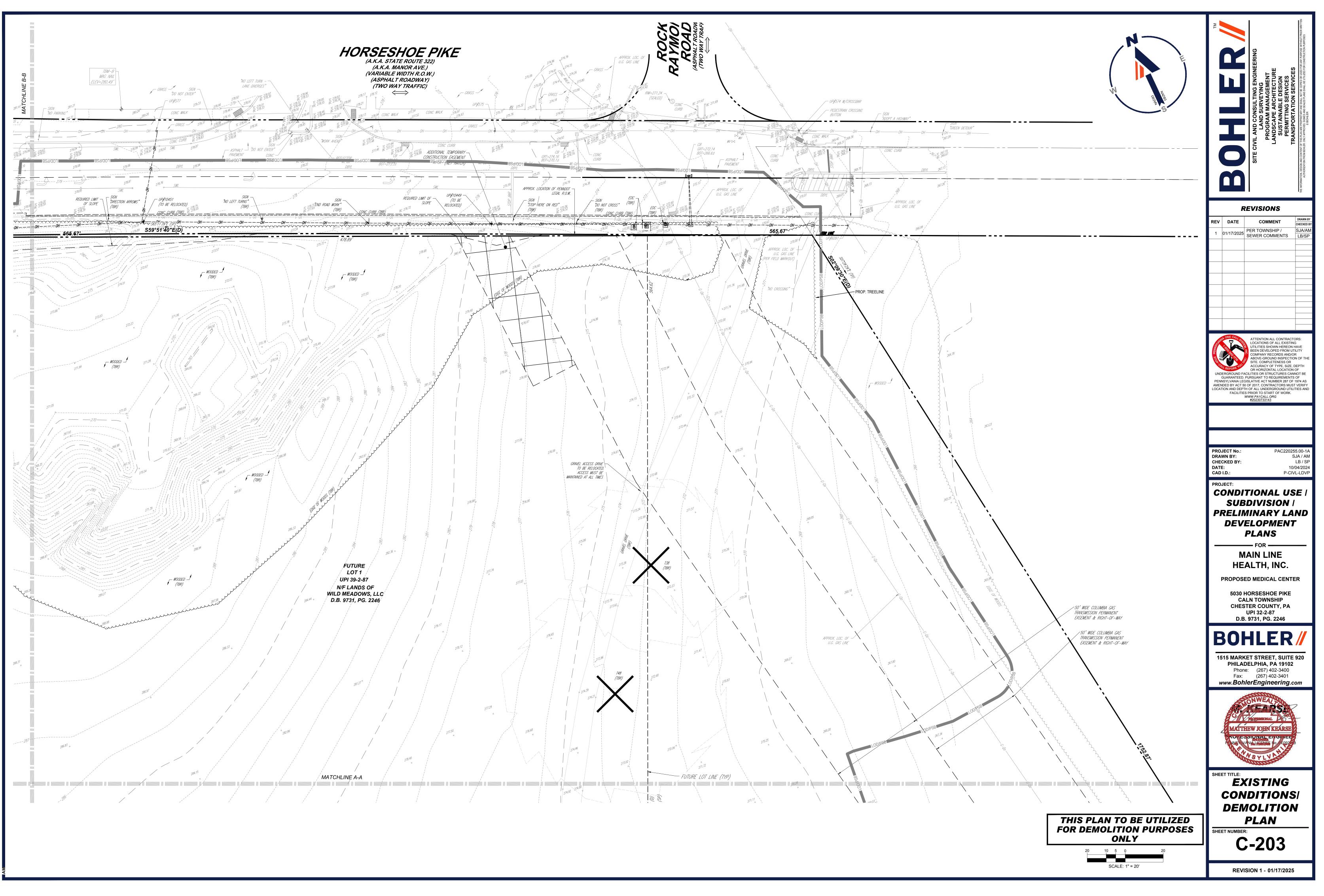
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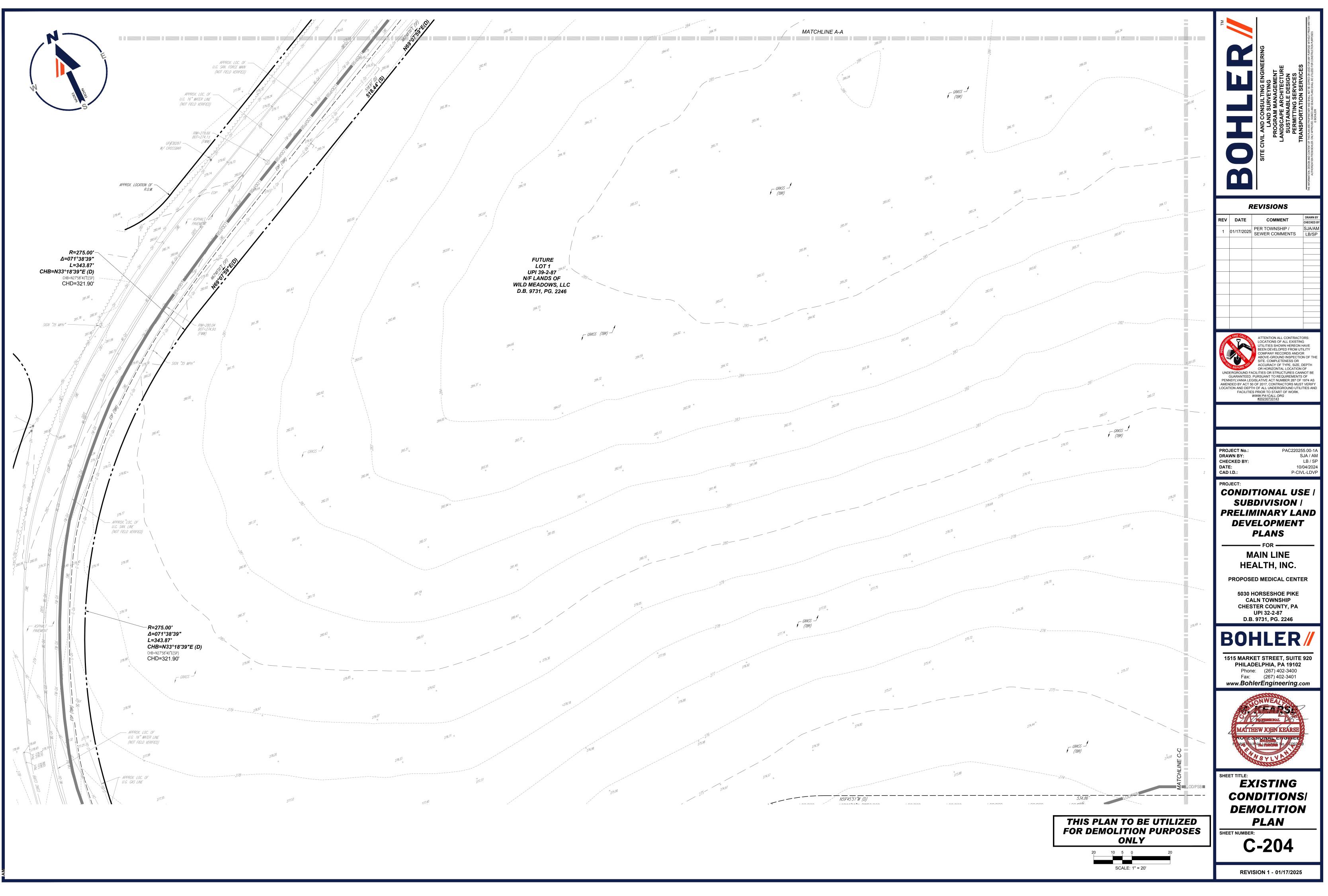
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OCS	OUTLET CONTROL STRUCTURE				
OGS ORD	OIL AND GRIT SEPARATOR			CURB AND GUTTER	SITE SITE IN THE SITE
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PERF	RETURN PERFORATED		UTILITY POLE		REVISIONS
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POG	POINT OF GRADE	<u> </u>	POLE LIGHT		1 01/17/2025 PER TOWNSHIP / SJA/AM SEWER COMMENTS LB/SP
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PT	POINT OF TANGENCY POINT OF TANGENCY, CURB	0	UTILITY POLE		
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PVI PVMT	INTERSECTION PAVEMENT	¢	ACORN LIGHT	Ø	
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R	RADIUS / RADII RIGHT-OF-WAY /		PARKING COUNTS	X	
R/W	RIGHTS-OF-WAY REINFORCED CONCRETE PIPE				
RD			CONTOUR	190	ATTENTION ALL CONTRACTORS: LOCATIONS OF ALL EXISTING UTILITIES SHOWN HEREON HAVE BEEN DEVELOPED FROM UTILITY
REGS RELO	REGULATIONS TO BE RELOCATED	169	LINE	FF 517.00 TC 516.00 [ME 549.00]	COMPANY RECORDS AND/OR ABOVE-GROUND INSPECTION OF THE SITE. COMPLETENESS OR
REQ RET	REQUIRED RETENTION	TC 516.4 OR 516.4	ELEVATIONS	FF 517.00 TC 516.00 BC 515.55 ME 516.00	ACCURACY OF TYPE, SIZE, DEPTH OR HORIZONTAL LOCATION OF UNDERGROUND FACILITIES OR STRUCTURES CANNOT BE GUARANTEED. PURSUANT TO REQUIREMENTS OF
RET	RETAINING WALL			Γ	PENNSYLVANIA LEGISLATIVE ACT NUMBER 287 OF 1974 AS AMENDED BY ACT 50 OF 2017, CONTRACTORS MUST VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES AND
RETO	TO BE RETURNED TO OWNER	SAN #	SANITARY LABEL	(S-100)	FACILITIES PRIOR TO START OF WORK. <i>WWW.PA1CALL.ORG</i> <u>#20230733143</u>
RG S	RAIN GARDEN SLOPE		STORM LABEL	A-100	
SAN	SANITARY SEWER SOIL EROSION AND SEDIMENT	SL	SANITARY SEWER LATERAL	SL	
SESC SF	SQUARE FEET	W	UNDERGROUND WATER LINE		
SHLO	STATE HIGHWAY LAYOUT	E	UNDERGROUND ELECTRIC LINE	E	PROJECT No.: PAC220255.00-1A DRAWN BY: SJA / AM CHECKED BY: LB / SP
SMH STA	SANITARY MANHOLE STATION	<i>C</i>	UNDERGROUND		CHECKED BY: LB / SP DATE: 10/04/2024 CAD I.D.: P-CIVL-CNDS
STM	STORM WATER / STORM SEWER	OH	GAS LINE OVERHEAD	ОН	PROJECT:
SWL	SINGLE/SOLID WHITE LINE	<i>T</i>	UNDERGROUND	T	CONDITIONAL USE SUBDIVISION
WPPP TBA	PREVENTION PLAN TO BE ABANDONED	, C	UNDERGROUND		PRELIMINARY LAND
TBD	TO BE DETERMINED	C	CABLE LINE STORM	C	
TBP TBR	TO BE REMOVED		SEWER		PLANS
TBRR	TO BE REMOVED AND REPLACED IN KIND		SANITARY SEWER MAIN	S	
TBS TBV	TO BE SALVAGED TO BE VACATED	V	HYDRANT	*	HEALTH, INC.
TC	TOP OF CURB	S	SANITARY MANHOLE		PROPOSED MEDICAL CENTER
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TELE	TELECOMMUNICATIONS / TELEDATA	\otimes^{WM}	WATER METER	⊗ ^{WM}	CHESTER COUNTY, PA UPI 32-2-87
TPF TR	TREE PROTECTION FENCE TO REMAIN	WV	WATER VALVE	M	D.B. 9731, PG. 2246
RANS	TRANSITION TYPICAL		GAS VALVE	GV	BOHLER //
UG	UNDERGROUND		GAS	G	1515 MARKET STREET, SUITE 920
UP	UTILITY POLE		TYPICAL END		PHILADELPHIA, PA 19102 Phone: (267) 402-3400
VERT	SURVEY VERTICAL	OP	SECTION HEADWALL OR		Fax: (267) 402-3401 www.BohlerEngineering.com
			ENDWALL		
VIF W	VERIFY IN FIELD WIDE / WIDTH		GRATE		SONWEAT
W W/L	WIDE / WIDTH WATER LINE		INLET		NONWEAL SE
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W W/L WM WQU YD # #:# #:# Ø ' ' "	WIDE / WIDTH WATER LINE WATER METER WATER QUALITY UNIT YARD DRAIN NUMBER SLOPE EXPRESSED IN HORIZONTAL:VERTICAL IN FEET PLUS OR MINUS DEGREE DIAMETER FEET/FOOT INCHES	© © (E) (T) (B) (EP) (P)	INLET CURB INLET CLEAN OUT CLEAN OUT ELECTRIC MANHOLE TELEPHONE MANHOLE ELECTRIC BOX ELECTRIC PEDESTAL MONITORING WELL	E E E E E F C/O C/O C C C C C C C C C C C C C	MATTHEW JOHN KEARSE TO I COSTONAL EITOT HET WANNE AND TO FORTON SHEET TITLE: BERERAL NOTES AND LEGEND
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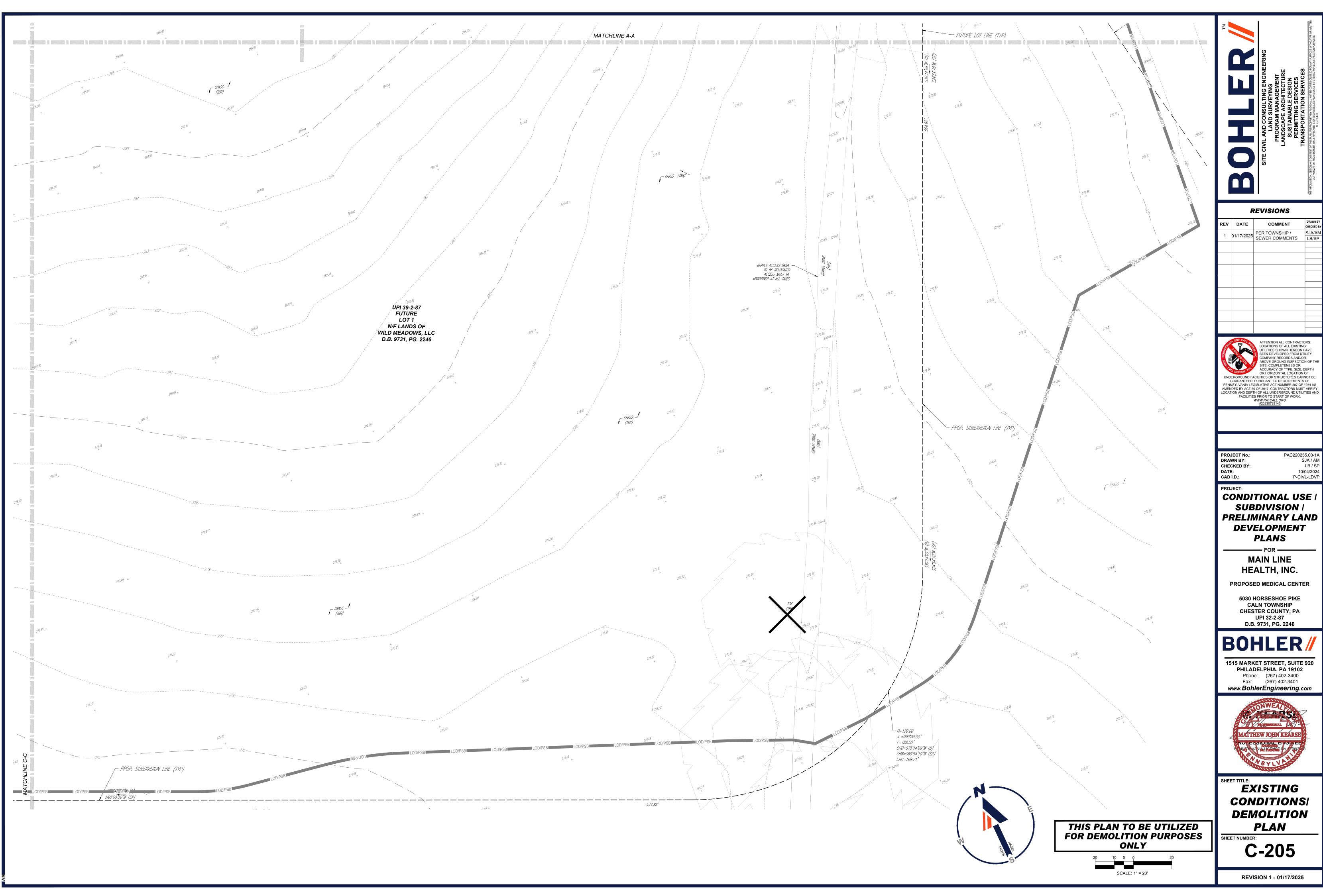
					MT		MANAGEMENT ARCHITECTURE ABLE DESIGN VG SERVICES	NOTERVICES NOT BE COPIED OR USED FOR ANY PURPOSE WITHOUT PRIOR WRITTEN LANS SHALL BE UTILIZED FOR CONSTRUCTION PURPOSES
PROP. TREELINE						SITE CIVIL AND CONSULTING ENGINEERING LAND SURVEYING	PROGRAM MANAGEMENT LANDSCAPE ARCHITECTURE SUSTAINABLE DESIGN PERMITTING SERVICES	THE INFORMATION, DESIGN AND CONTENT OF THIS PLAN ARE PROPRIETARY AND SHALL NOT BE COPIED OR USED FOR ANY PURPOSE WITHOUT PRIOR WRITTEN AUTHORIZATION FROM BOHLER, ONLY APPROVED, SIGNED AND SHALL NOT BE COPIED OR USED FOR CONSTRUCTION PURPOSES © BOHLER © BOHLER
						REVISI	ONS	
	APPROX. LOC. OF U.G. GAS LINE 50' WIDE COLUMBIA GAS TRANSMISSION PERMANENT EASEMENT & RIGHT-OF-WAY 50' WIDE COLUMBIA GAS TRANSMISSION PERMANENT EASEMENT & RIGHT-OF-WAY				1 0* 1 0 1 1	PER TOV	OMMENT VNSHIP / COMMENTS	DRAWN BY CHECKED BY SJA/AM LB/SP
02Z			6.63 th		GU PENNS AMENDE	LOCATION UTILITIES BEEN DE' COMPAN ABOVE-G SITE. COI ACCURAG	TO REQUIREMENTS TO NUMBER 287 OF ONTRACTORS MUS IDERGROUND UTIL START OF WORK.	NG HAVE TILITY DR ON OF THE DEPTH N OF NNOT BE S OF = 1974 AS ST VERIFY
NON LINE (TYP)			Rest of the second seco		DRAWI CHECK DATE: CAD I.I PROJE CO	XED BY: D.:	IAL US SION RY LA PMENT	SJA / AM LB / SP)/04/2024 VL-LDVP SE / / ND
· · · · · · · · · · · · · · · · · · ·		RVIO	US SUR	FACE	ח 🛛 —	MAIN I		
		ALCU	LATION	S		HEALTH		
	ITEM EXISTING IMPERVIOUS SURFACE EXISTING IMPERVIOUS SURFACE TO BE	PROF SUBDIVIS 5,08	IN THE POSED SION LINE 32 SF	WITHIN THE PROPOSED LOD / PSB 31,617 SF 26,728 SF		ROPOSED MED 5030 HORSES CALN TOV CHESTER CO UPI 32-	SHOE PIKE VNSHIP VNTY, PA	EK
	REPLACED EXISTING IMPERVIOUS SURFACE TO BE PERMANENTLY REMOVED AND REPLACED WITH	4,74	42 SF	4,889 SF	B	OHL		//
ς.	PERVIOUS AREA NEW OR ADDITIONAL IMPERVIOUS SURFACE PERCENT OF SITE COVERED BY		952 SF	326,680 SF		5 MARKET STR PHILADELPHIA Phone: (267	A, PA 19102 7) 402-3400	
	IMPERVIOUS IN EXISTING AND PROPOSED CONDITIONS		ED: 48.2%	PROPOSED: 44.3%	wn	Fax: (267 w.BohlerEng	7) 402-3401 ineering.c	com
	NATURAL R FRESHWATER W	ESOURCE ANA	LYSIS CHART NONE PRESENT			Still State		7
	MANMADE OR N WATERCOU	RSES	NONE PRESENT		2		IN KEARSE	
	100-YEAR FLOC STEEP SLOPES (1 STEEP SLOPES WOODLAN	.5%-20%) (> 20%)	NONE PRESENT NONE PRESENT NONE PRESENT			AND THAT AND THE		8
	THIS	PLAN DEMOI	LITION F ONLY 25 12.12.5 0	UTILIZED URPOSES		OVER EXIST CONDIT DEMO	TING TIONS	-
			SCALE: 1" = 50'		SHEET	NUMBER:	01	
						0-2	U I	

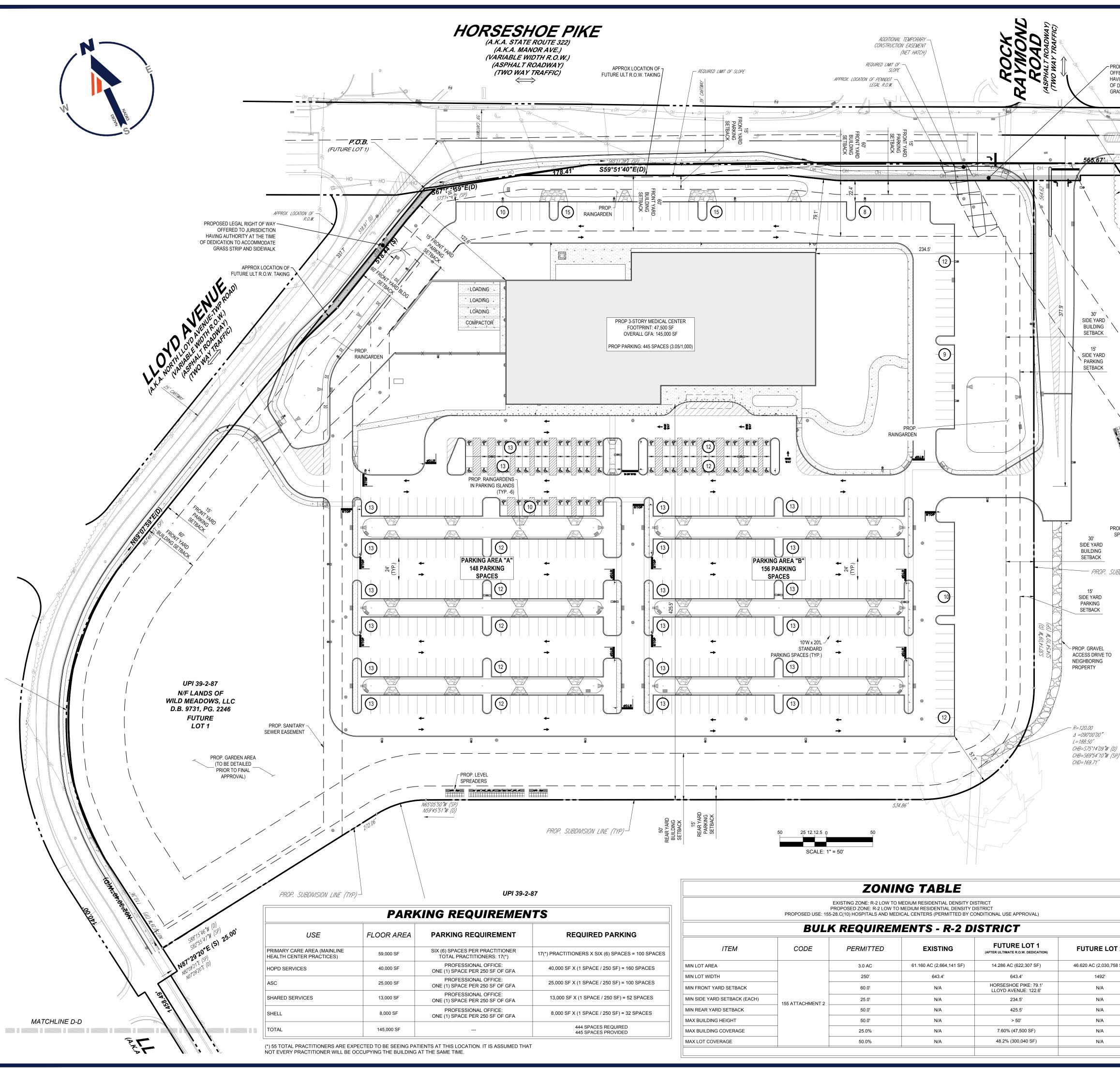




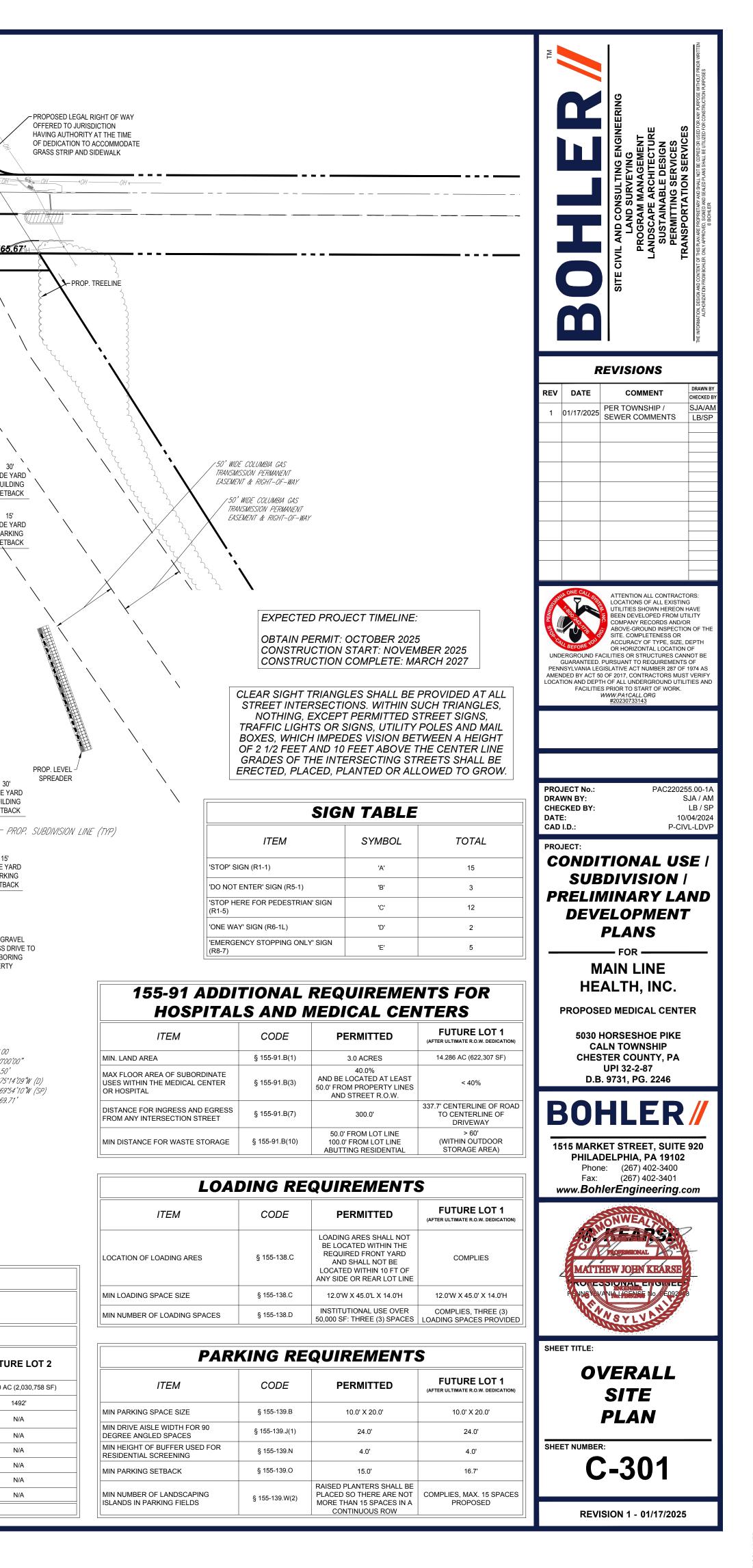


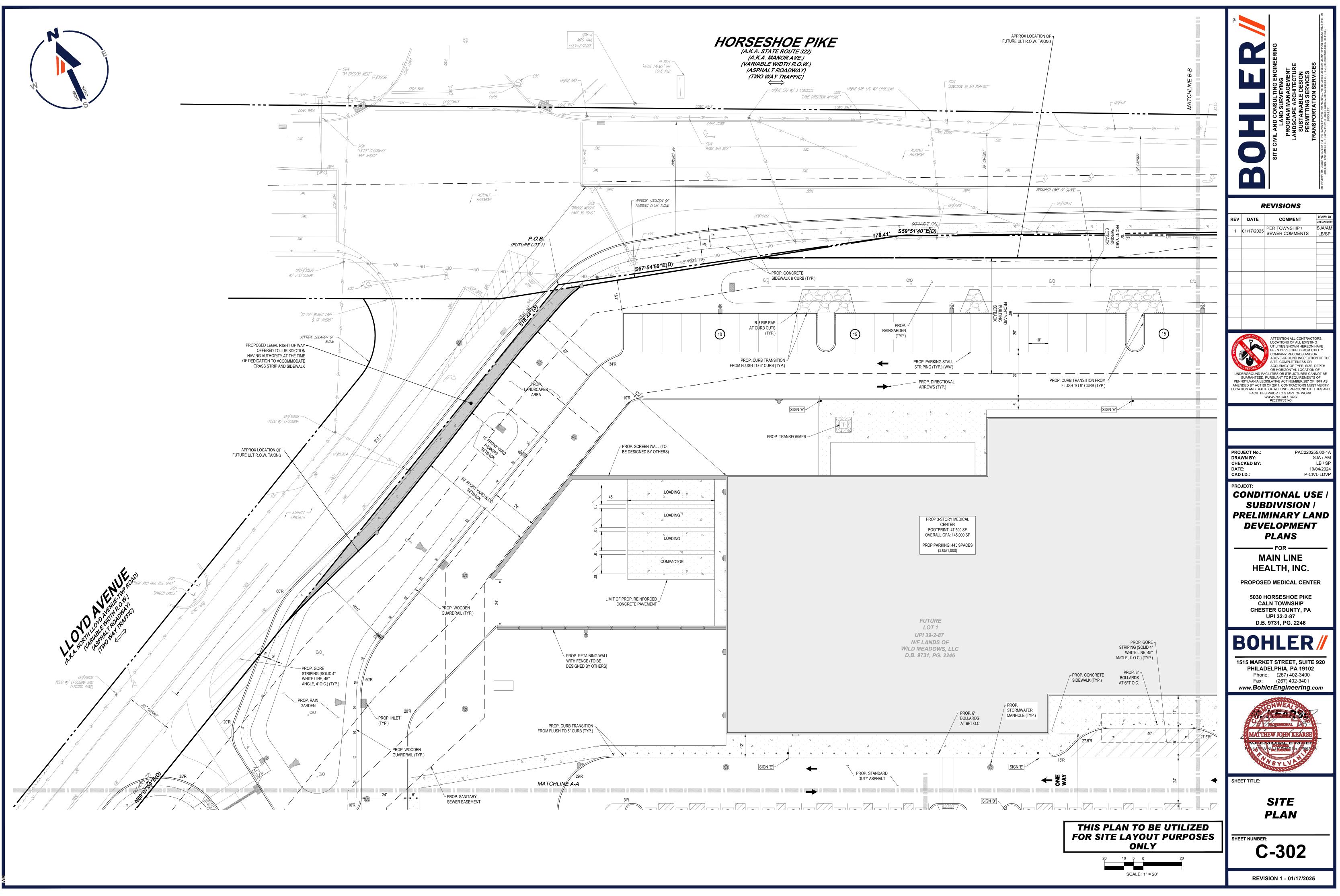
ERENG.NETISHARESIPA-PROJECTSI2022IPAC220255.00ICADIDRAWINGSIPLAN SETSICIVIL SITE PLANSIP-CIVL-LDVP-PAC220255.00-1A----->LAYOUT: C-204 E



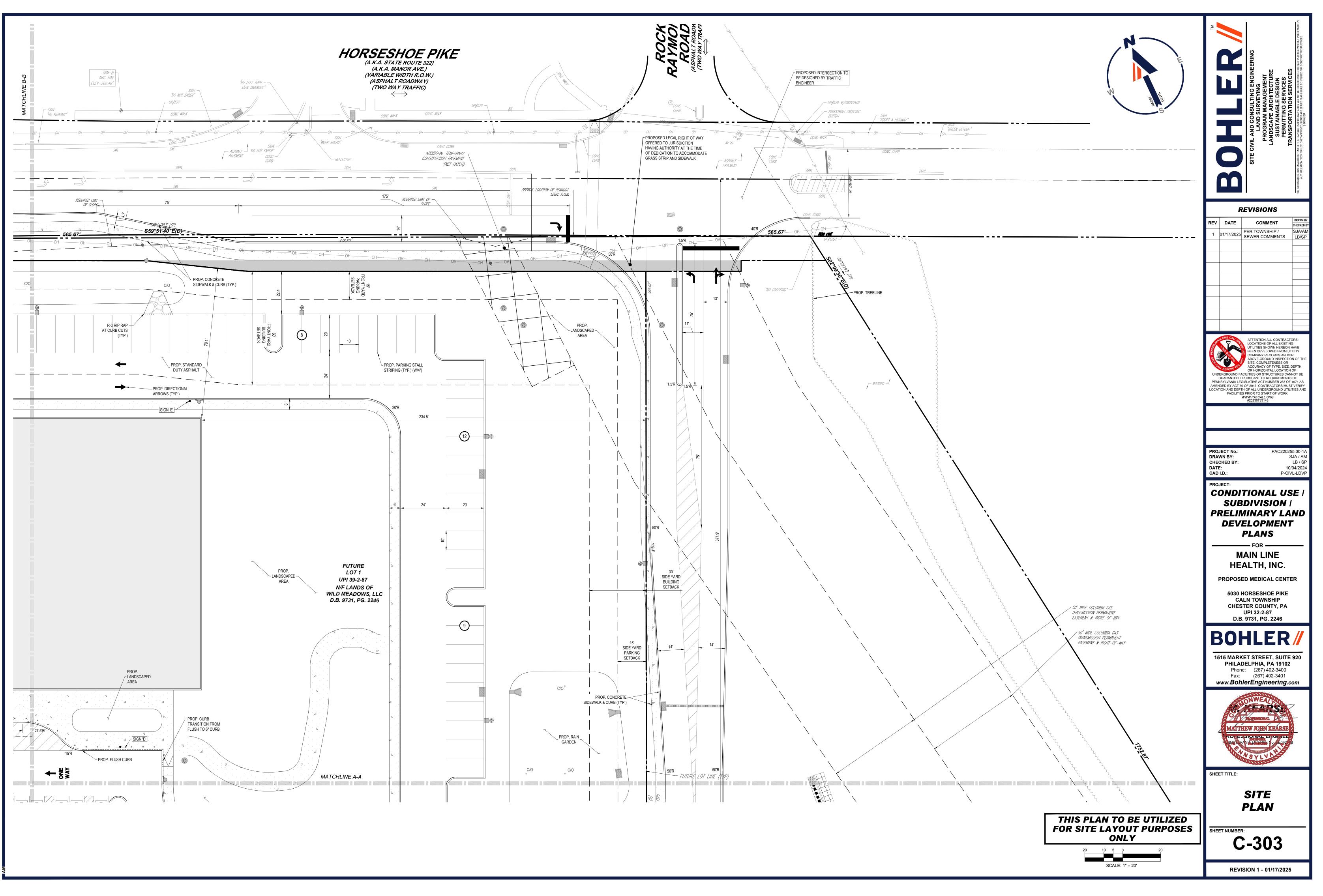


FUTURE LOT 2 46.620 AC (2,030,758 SF) 1492'

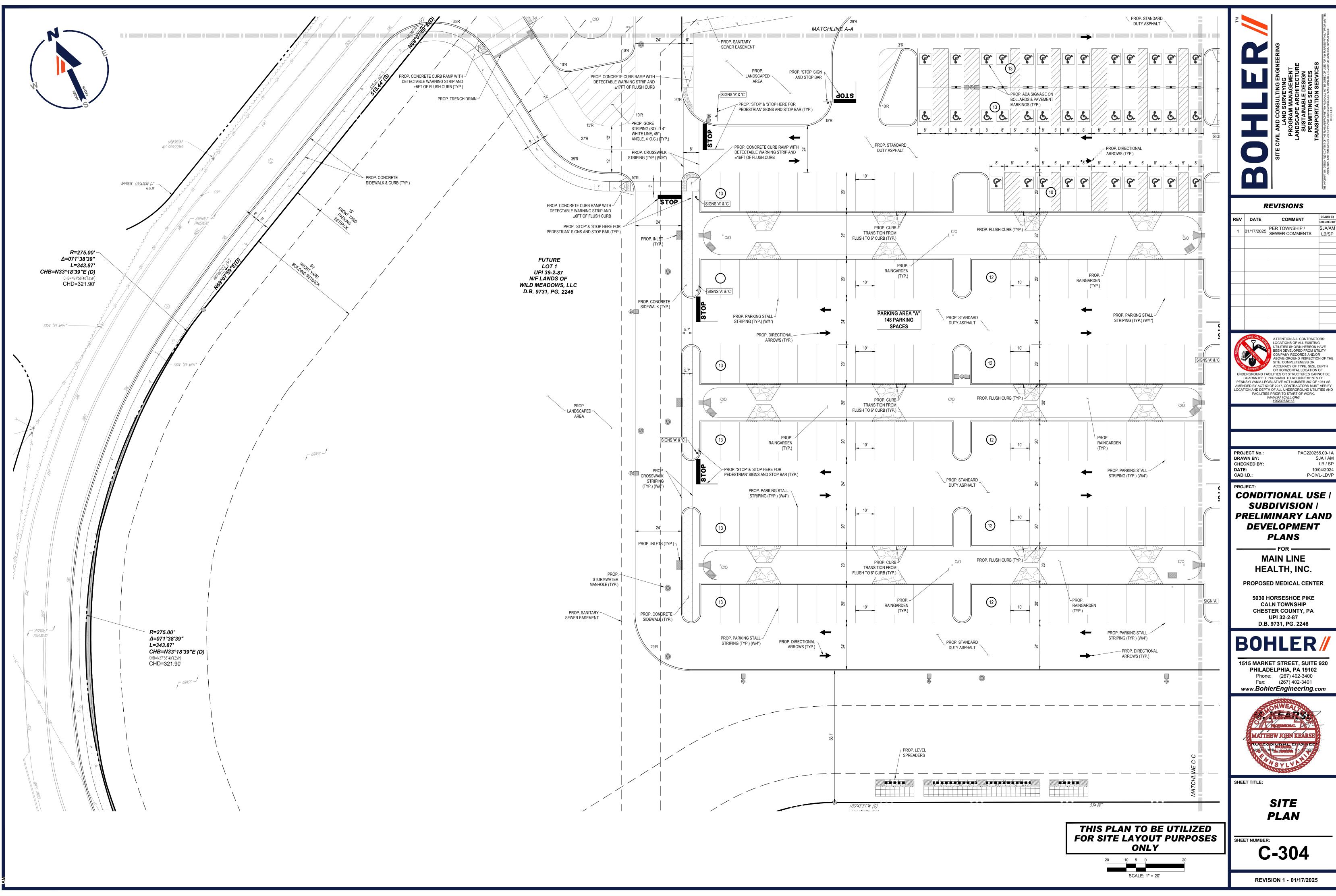




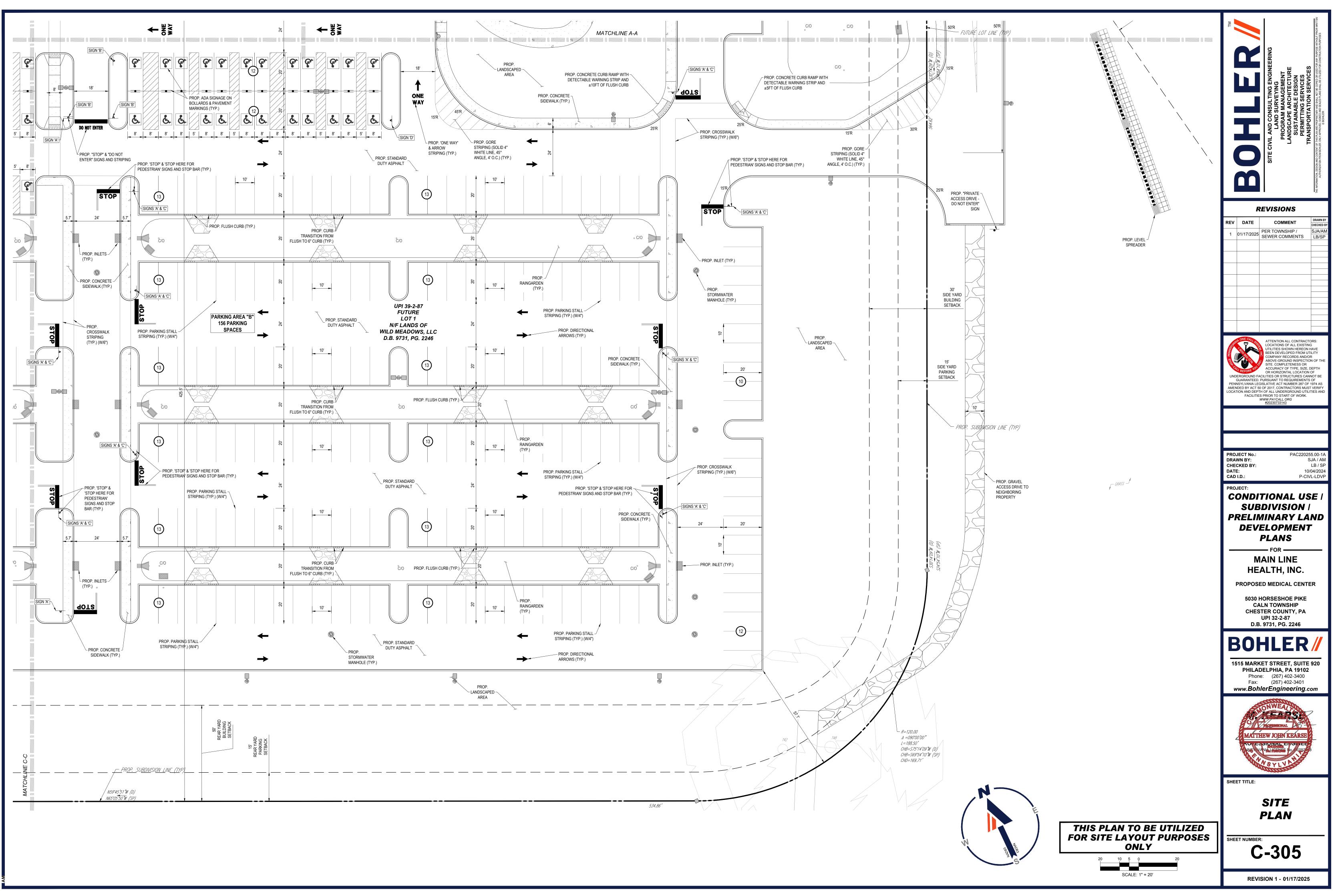
ERENG.NETISHARES/PA-PROJECTS/2022/PAC220255.00/CAD/DRAWINGS/PLAN SETS/CIVIL SITE PLANS/P-CIVL-LDVP-PAC220255.00-1A----->LAYOUT: C-302 SITE-A

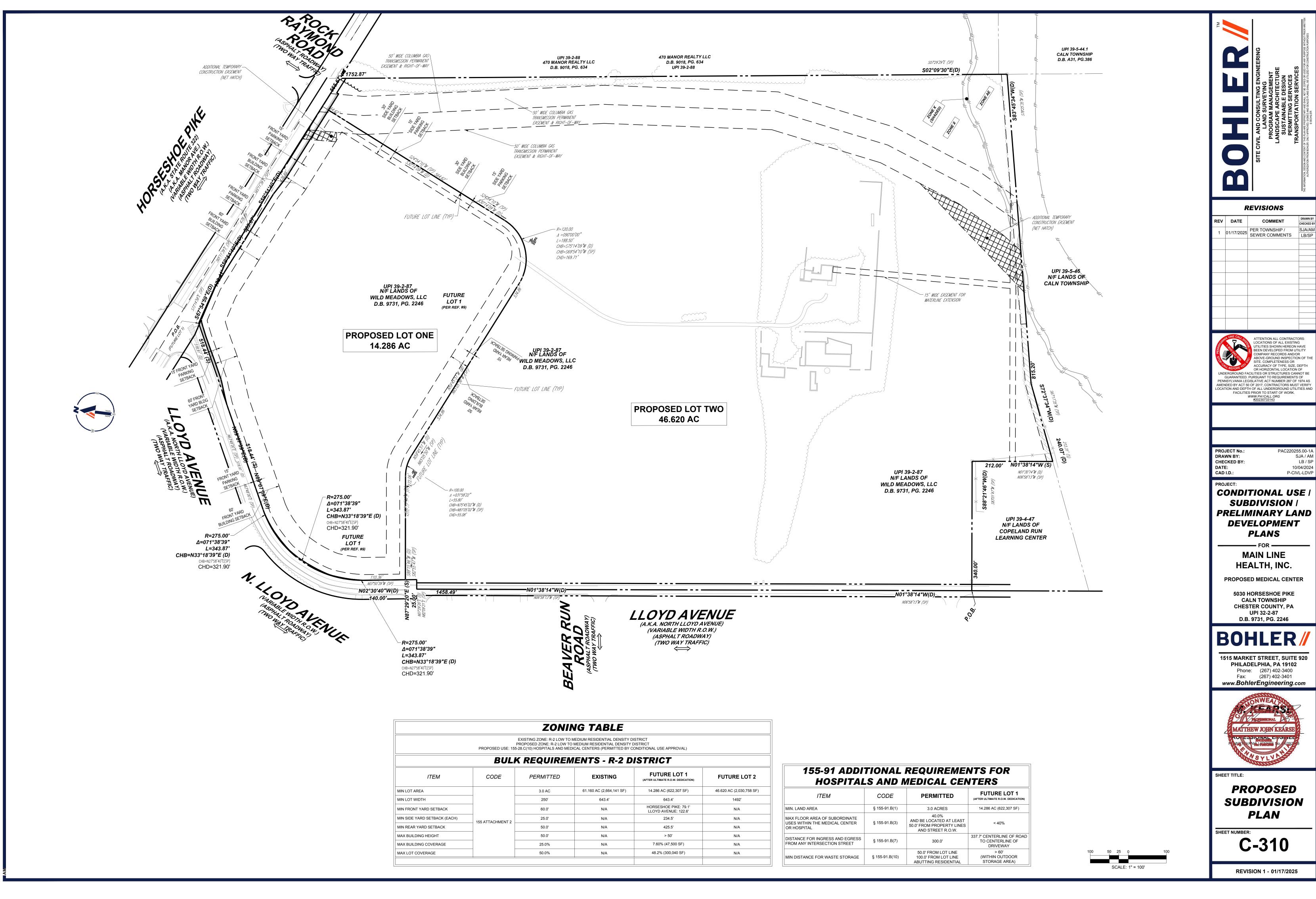


ERENG.NETISHARES/PA-PROJECTS/2022/PAC220255.00/CAD/DRAWINGS/PLAN SETS/CIVIL SITE PLANS/P-CIVL-LDVP-PAC220255.00-1A----->LAYOUT: C-303 SITE-B.



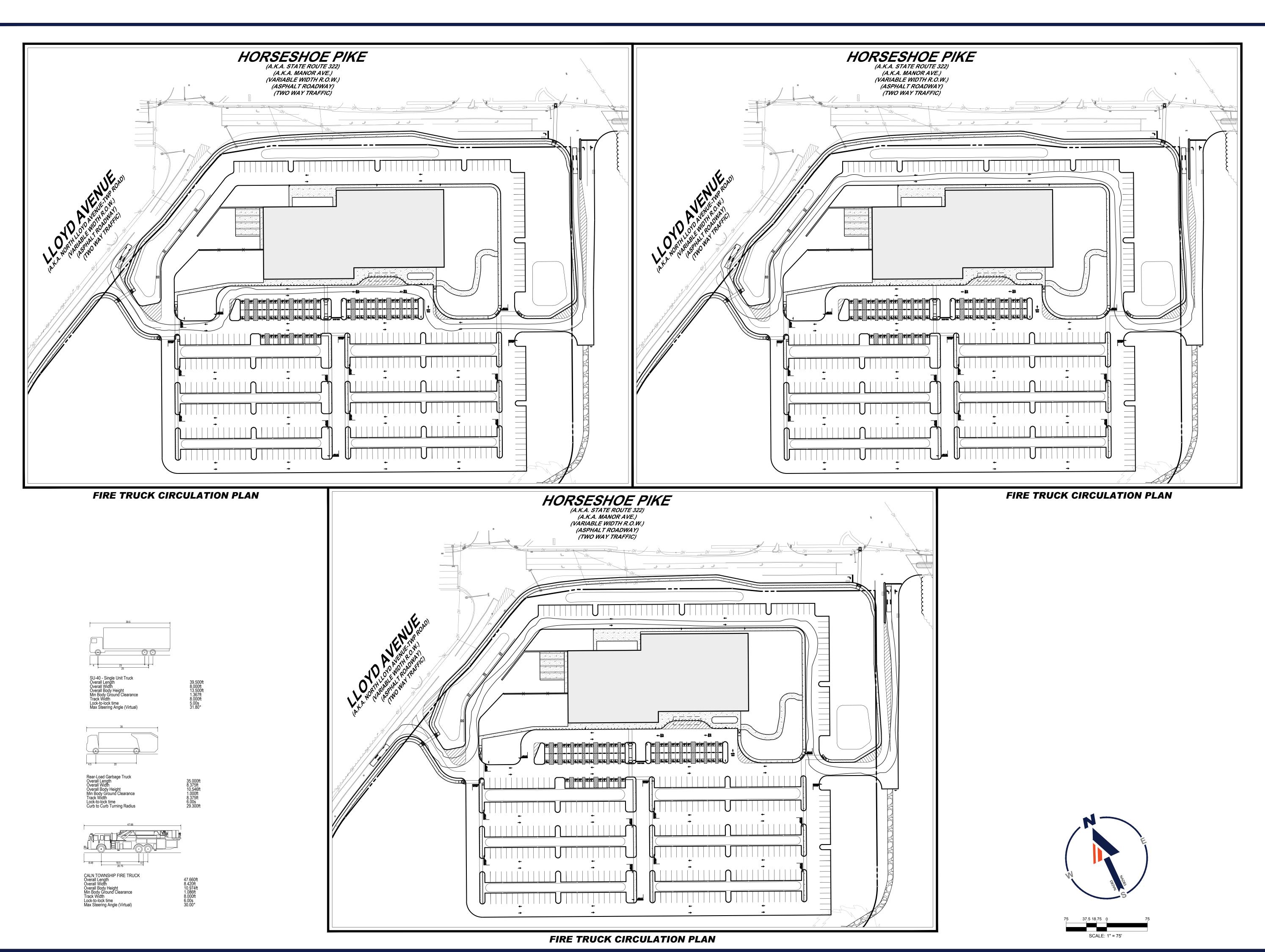
SJA/A

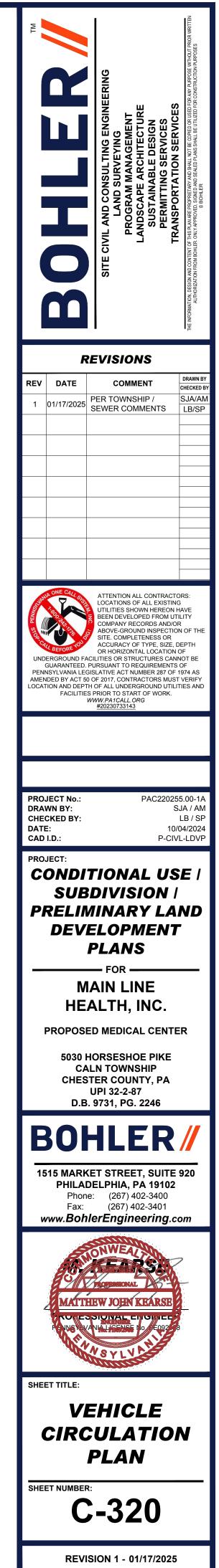


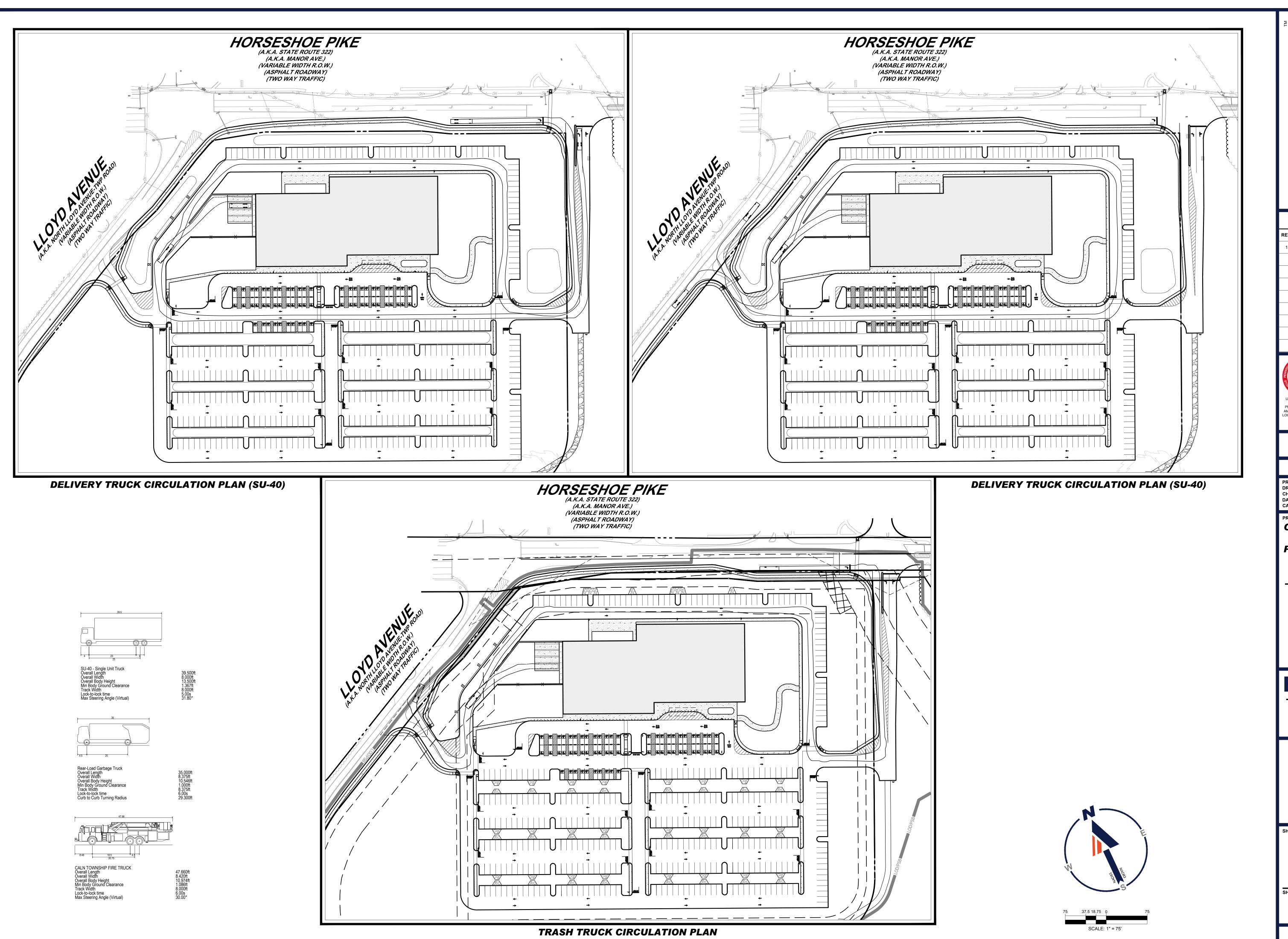


BULK REQUIREMENTS - R-2 DISTRICT					
1	CODE	PERMITTED	EXISTING	FUTURE LOT 1 (AFTER ULTIMATE R.O.W. DEDICATION)	FUTURE LOT 2
		3.0 AC	61.160 AC (2,664,141 SF)	14.286 AC (622,307 SF)	46.620 AC (2,030,758 SF)
		250'	643.4'	643.4'	1492'
ACK		60.0'	N/A	HORSESHOE PIKE: 79.1' LLOYD AVENUE: 122.6'	N/A
CK (EACH)	155 ATTACHMENT 2	25.0'	N/A	234.5'	N/A
.CK		50.0'	N/A	425.5'	N/A
		50.0'	N/A	> 50'	N/A
AGE		25.0%	N/A	7.60% (47,500 SF)	N/A
		50.0%	N/A	48.2% (300,040 SF)	N/A
			1		

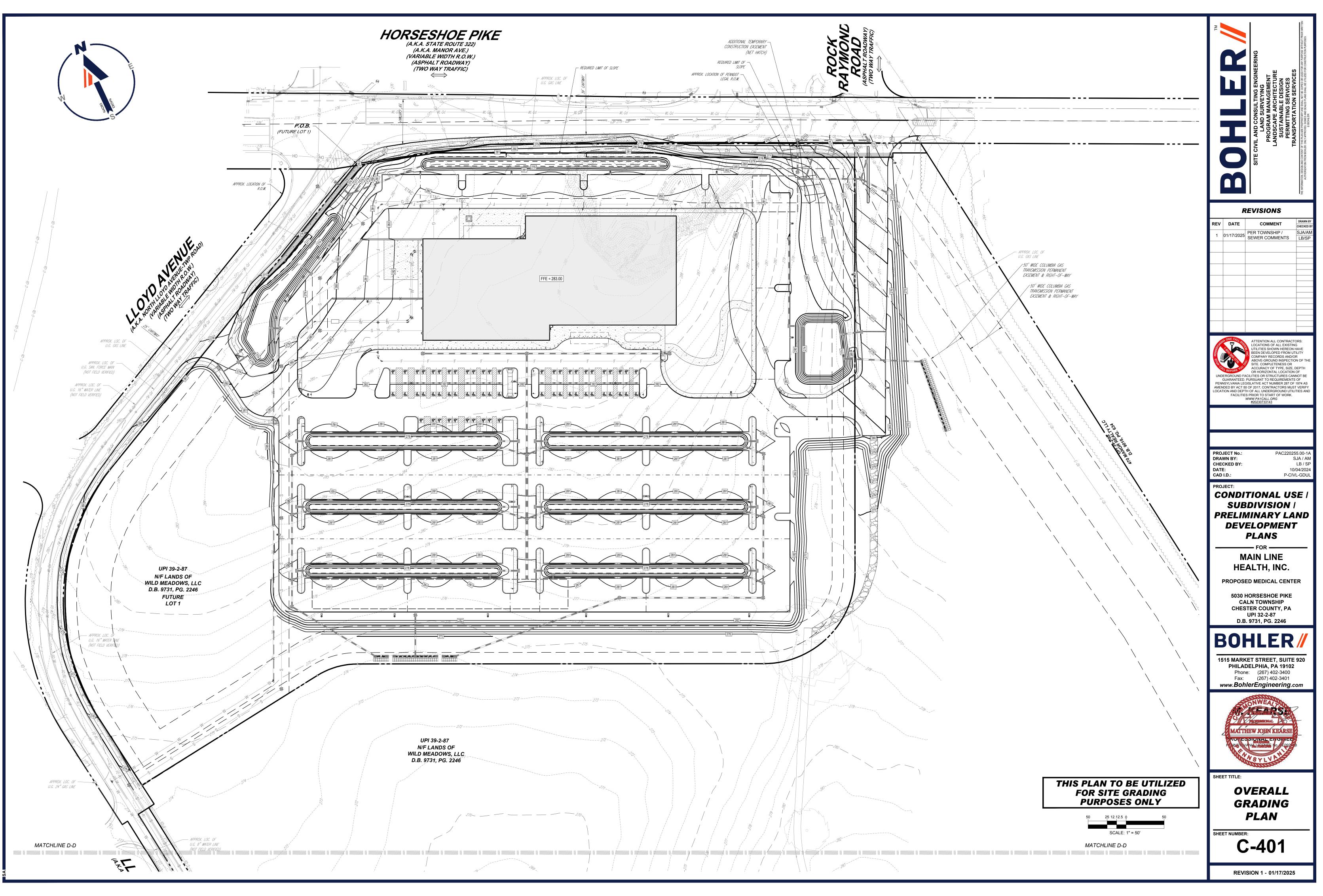
155-91 ADDI HOSPITAI	_	_
ITEM	CODE	
MIN. LAND AREA	§ 155-91.B(1)	
MAX FLOOR AREA OF SUBORDINATE USES WITHIN THE MEDICAL CENTER OR HOSPITAL	§ 155-91.B(3)	AND B 50.0' FF AN
DISTANCE FOR INGRESS AND EGRESS FROM ANY INTERSECTION STREET	§ 155-91.B(7)	
MIN DISTANCE FOR WASTE STORAGE	§ 155-91.B(10)	50. 100 ABU



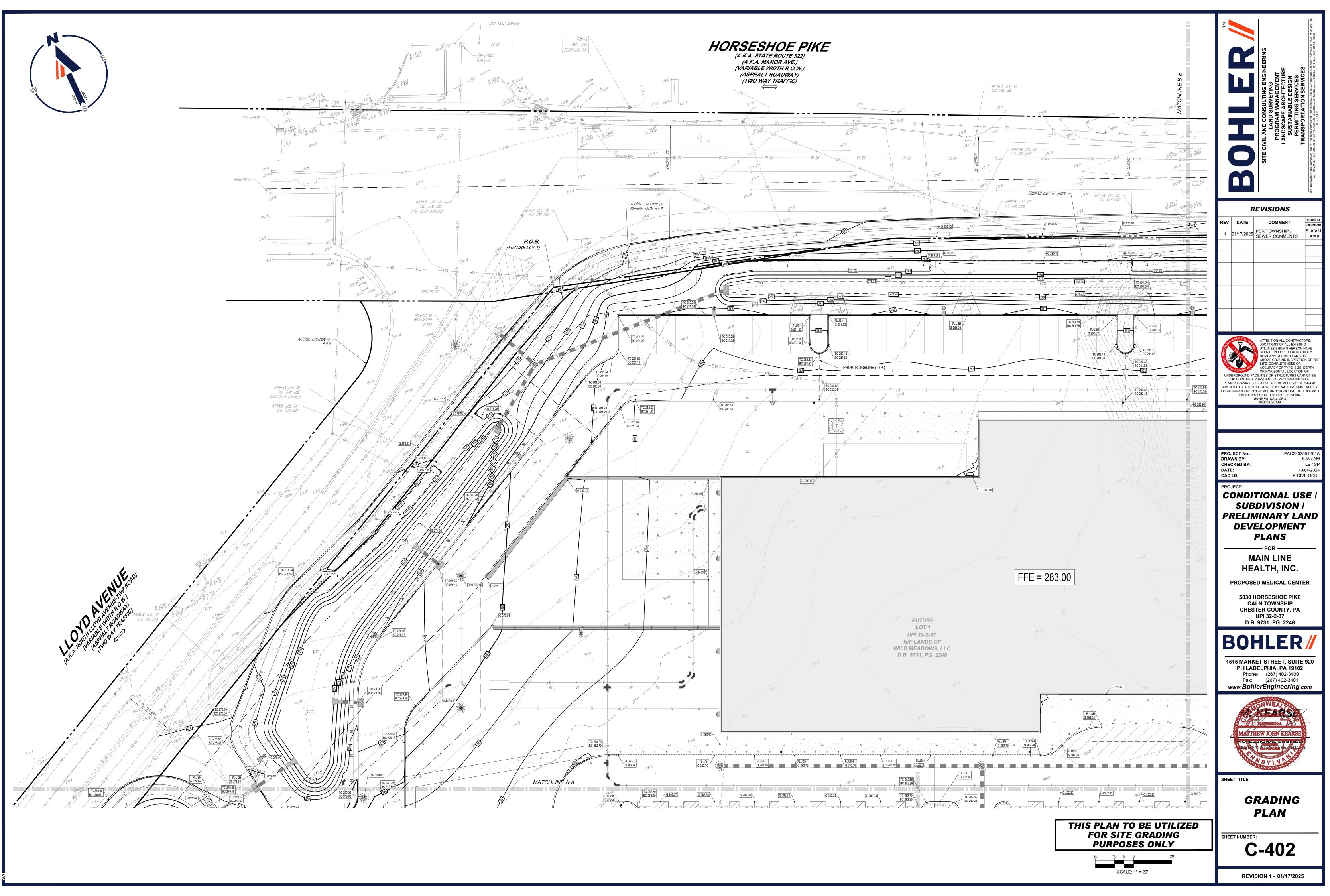




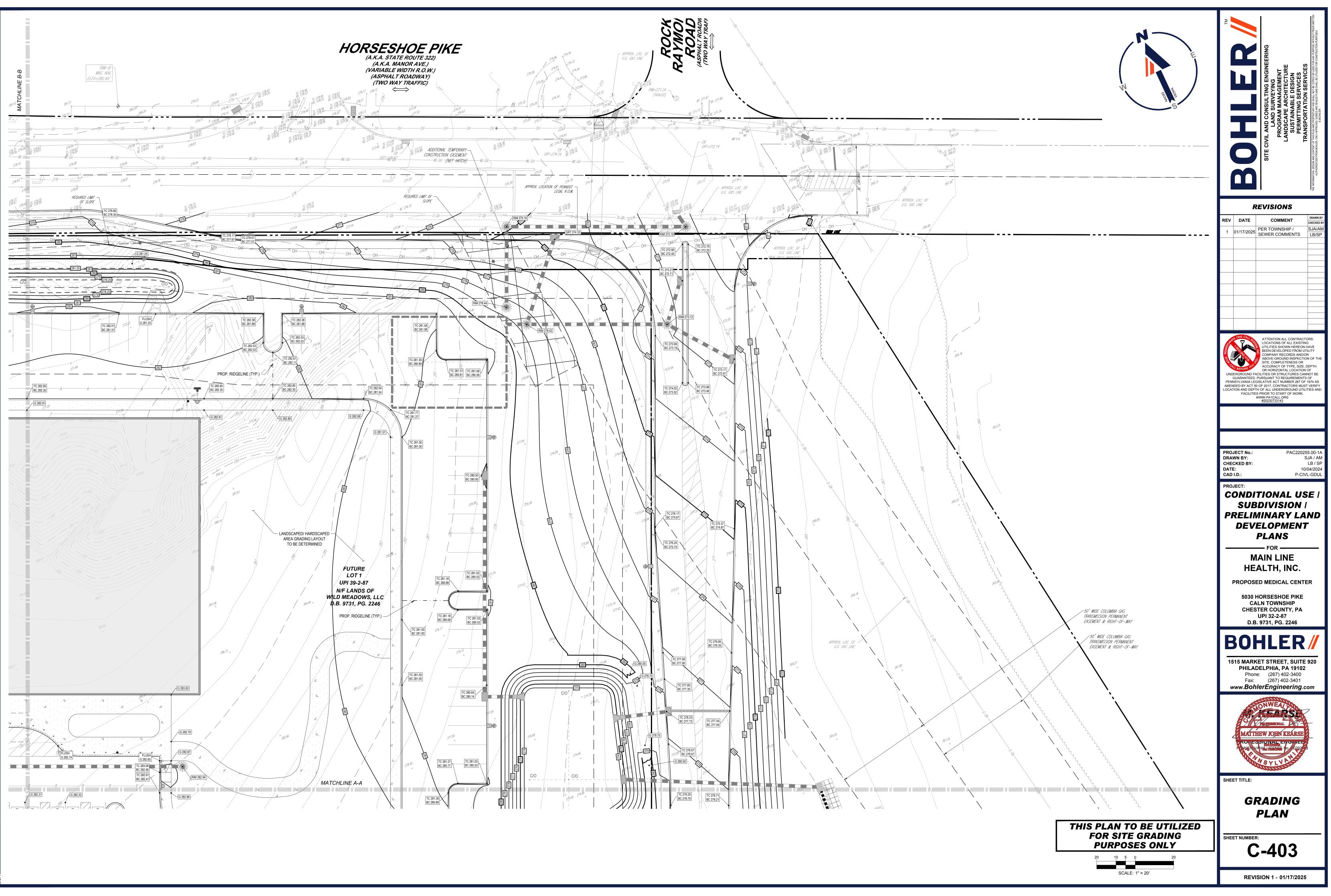
	SITE CIVIL AND CONSULTING ENGINEERING LAND SURVEYING PROGRAM MANAGEMENT LAND SURVEYING PROGRAM MANAGEMENT LANDSCAPE ARCHITECTURE SUSTAINABLE DESIGN SUSTAINABLE DESIGN SUSTAINABLE DESIGN PERMITTING SERVICES TRANSPORT OF THIS PLAN ARE PROPAGE TARY AND SHALL BUT ILLED FOR CONSTRUCTION PURPOSES IN HORIZITON FEROM AND CONTENT OF THIS PLAN ARE PROPAGE AND TAR AND FOR THIS PLAN ARE PROPAGE AND TAR AND PURPOSES AND CONTENT OF THIS PLAN ARE PROPAGE AND SHALL BUT ILLED FOR CONSTRUCTION PURPOSES ADDLER				
	REVISIONS				
REV DATE					
1 01/17/202	PER TOWNSHIP / SJA/AM SEWER COMMENTS LB/SP				
GUARANTEEL PENNSYLVANIA L AMENDED BY ACT LOCATION AND DEF	ATTENTION ALL CONTRACTORS: LOCATIONS OF ALL EXISTING UTILITIES SHOWN HEREON HAVE BEEN DEVELOPED FROM UTILITY COMPANY RECORDS AND/OR ABOVE-GROUND INSPECTION OF THE SITE. COMPLETENESS OR ACCURACY OF TYPE, SIZE, DEPTH OR HORIZONTAL LOCATION OF FACILITIES OR STRUCTURES CANNOT BE D. PURSUANT TO REQUIREMENTS OF EGISLATIVE ACT NUMBER 287 OF 1974 AS 50 OF 2017, CONTRACTORS MUST VERIFY PTH OF ALL UNDERGROUND UTILITIES AND ES PRIOR TO START OF WORK. WWW.PA1CALL.ORG #20230733143				
PROJECT No.: DRAWN BY: CHECKED BY: DATE: CAD I.D.:	PAC220255.00-1A SJA / AM LB / SP 10/04/2024 P-CIVL-LDVP				
CONDA SUI PRELIA DEV M HE PROPOS 5030 C CHE	PROJECT: CONDITIONAL USE / SUBDIVISION / PRELIMINARY LAND DEVELOPMENT PLANS FOR FOR MAIN LINE HEALTH, INC. PROPOSED MEDICAL CENTER 5030 HORSESHOE PIKE CALN TOWNSHIP CHESTER COUNTY, PA UPI 32-2-87 D.B. 9731, PG. 2246				
1515 MAR PHILA Pho Fax	BOHLER// 1515 MARKET STREET, SUITE 920 PHILADELPHIA, PA 19102 Phone: (267) 402-3400 Fax: (267) 402-3401 www.BohlerEngineering.com				
MATTHEW JOHN KEARSE NG ESSIONAL ENGINEER NG ESSIONAL ENGINEER NG ESSIONAL ENGINEER					
	EHICLE				

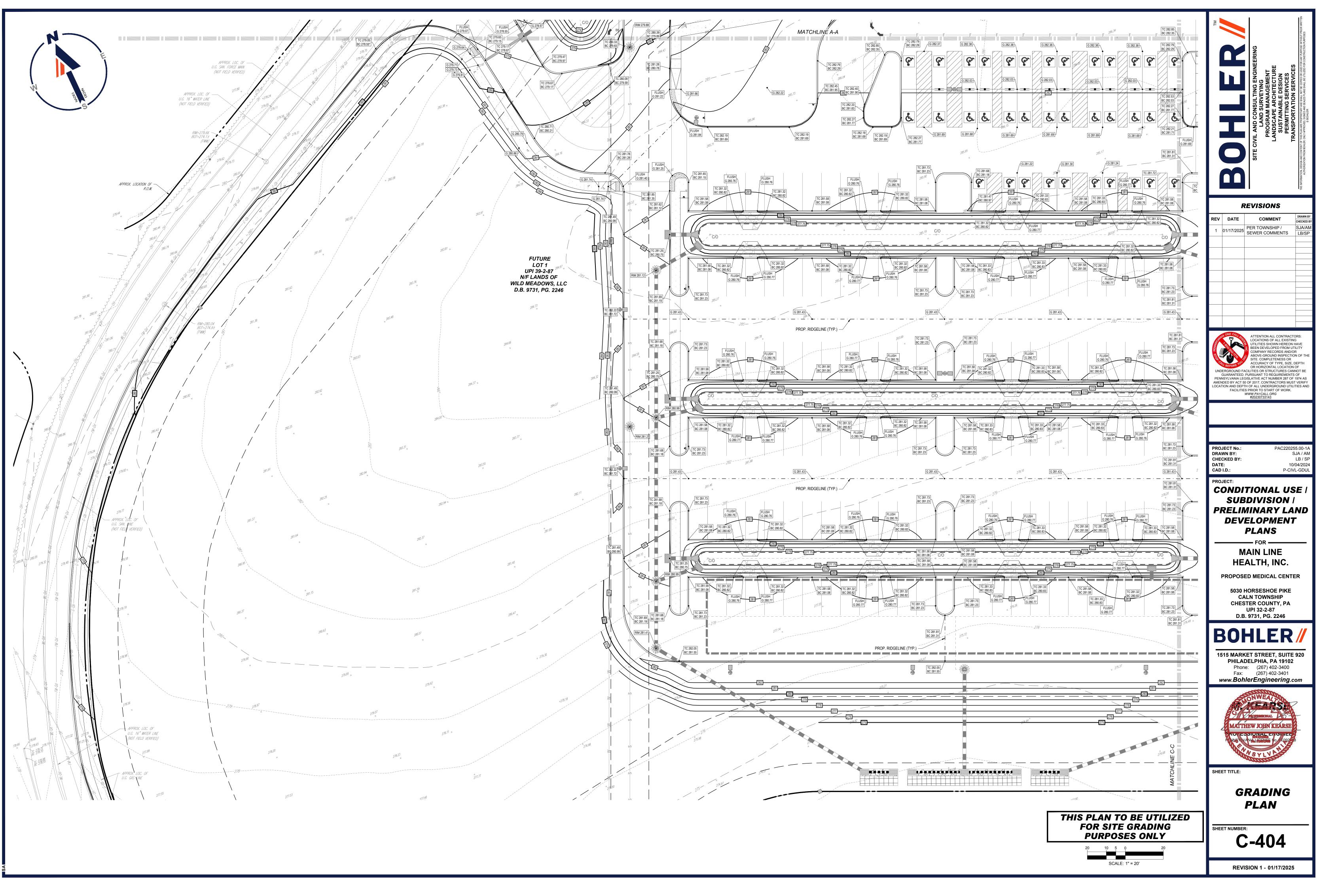


22\PAC220255.00\CAD\DRAWINGS\PLAN SETS\CIVIL SITE PLANS\P-CIVL-GDUL-PAC220255.00-1A----->LAYOUT: C-401 GRA

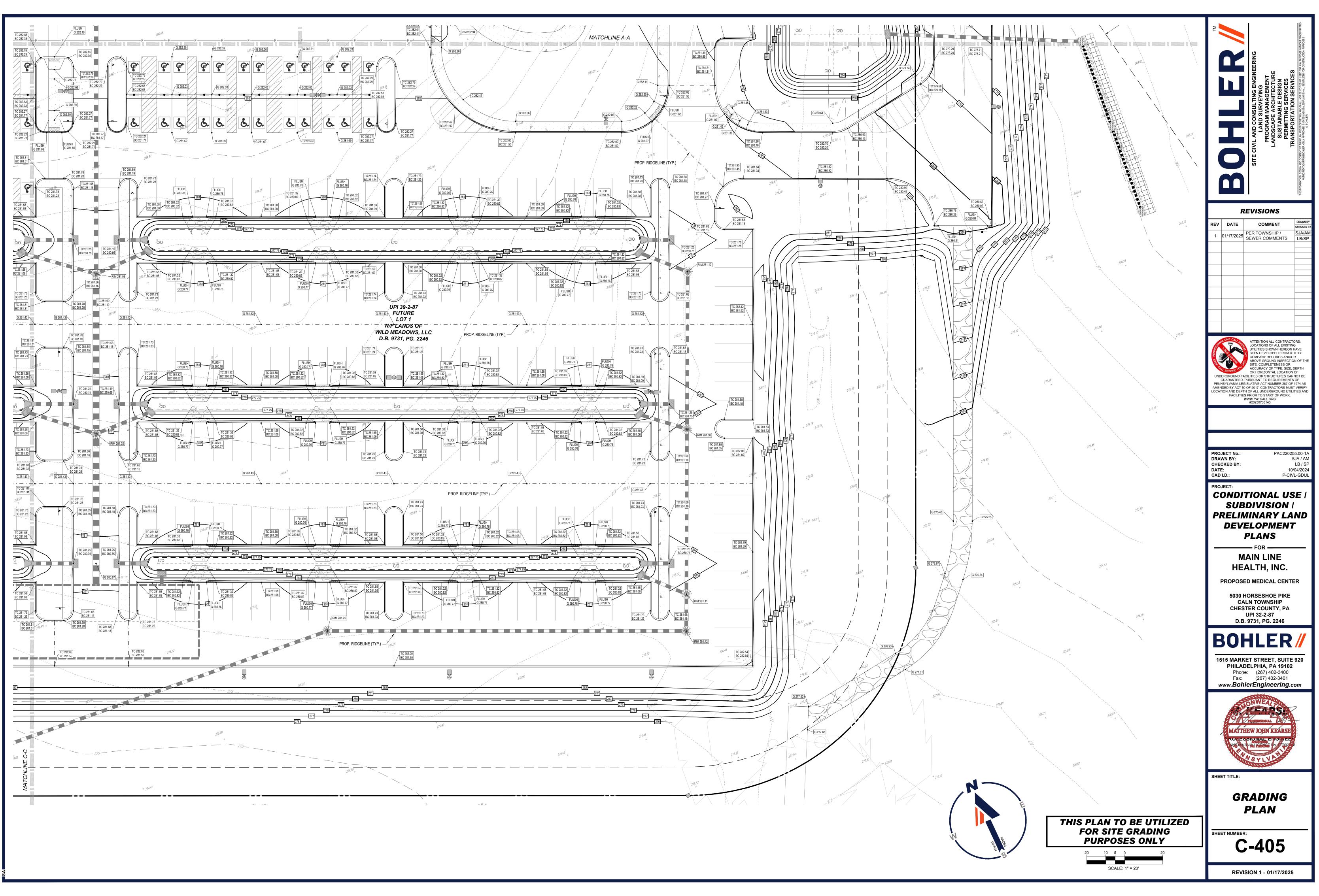


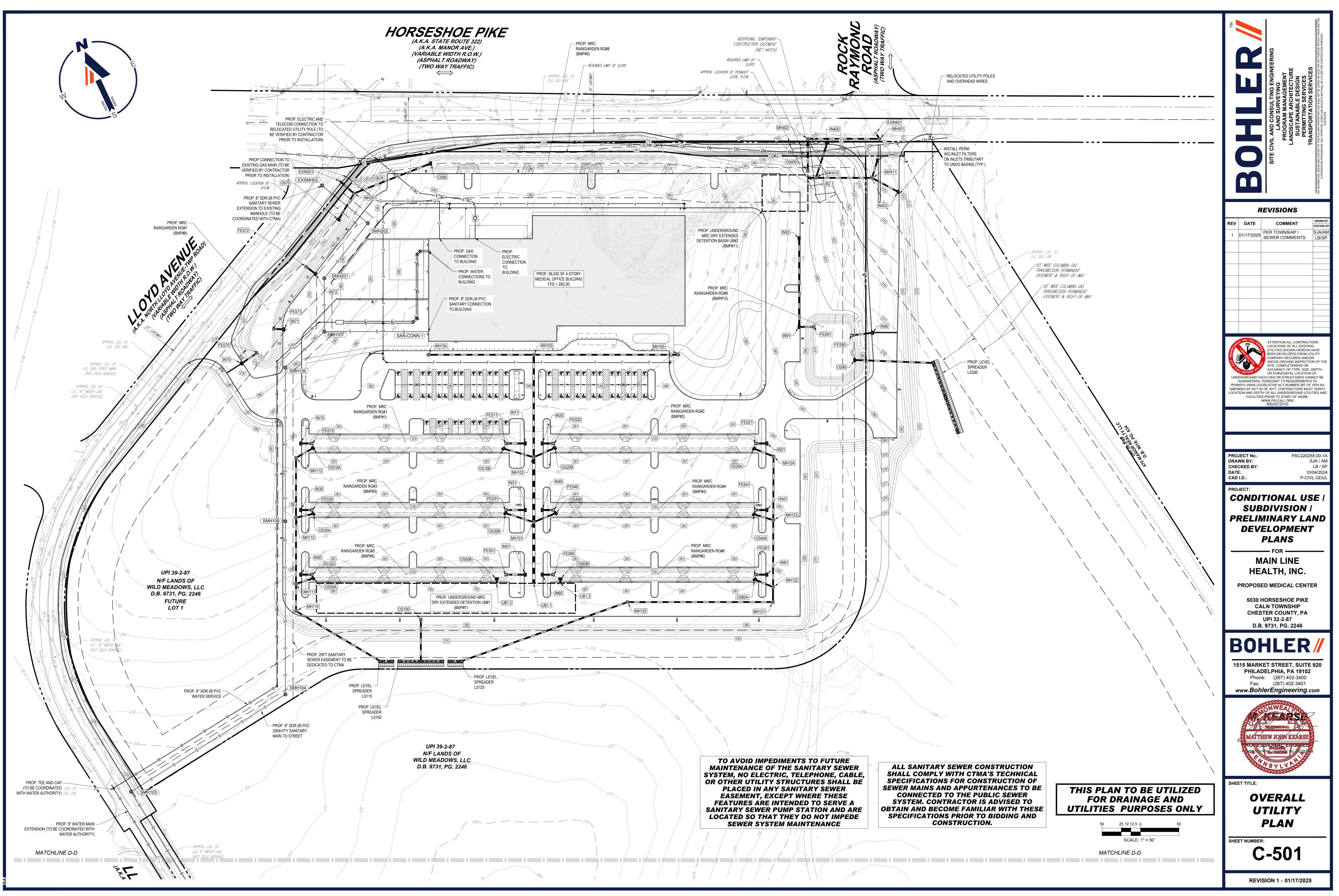
PAC220255.00/CAD\DRAWINGS\PLAN SETS\CIVIL SITE PLANS\P-CIVL-GDUL-PAC220255.00-1A----->LAYOUT: C-402 GRAD-



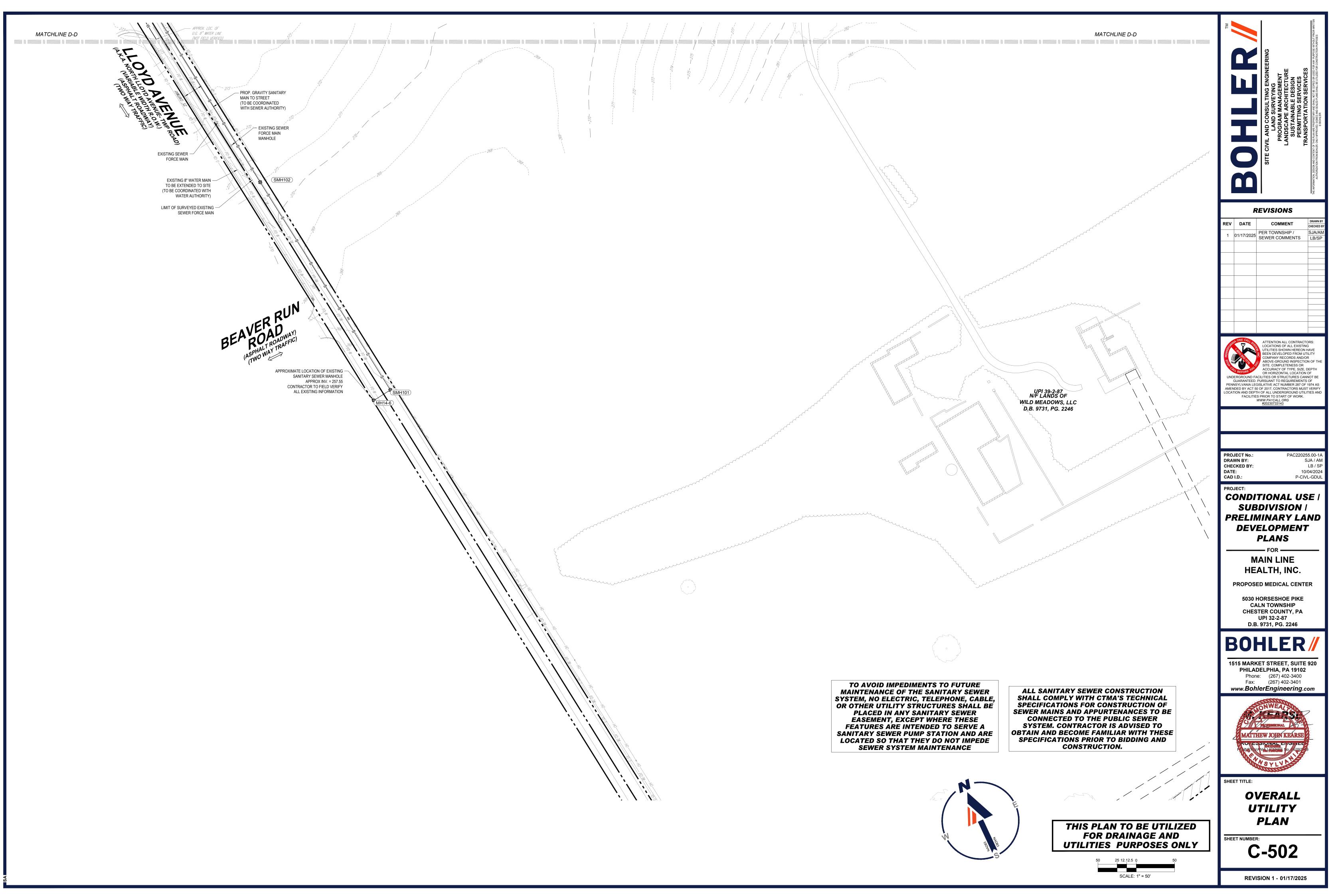


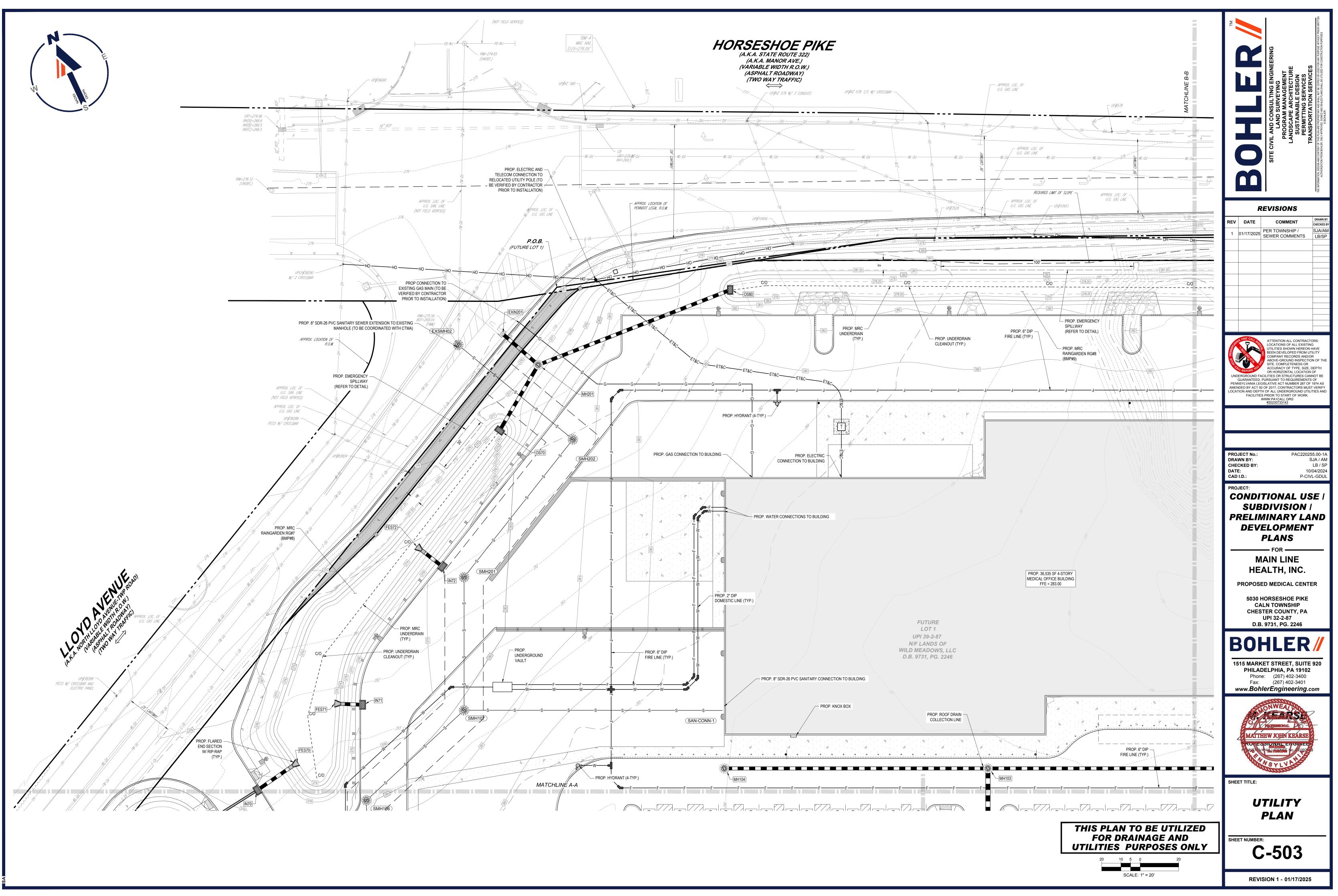
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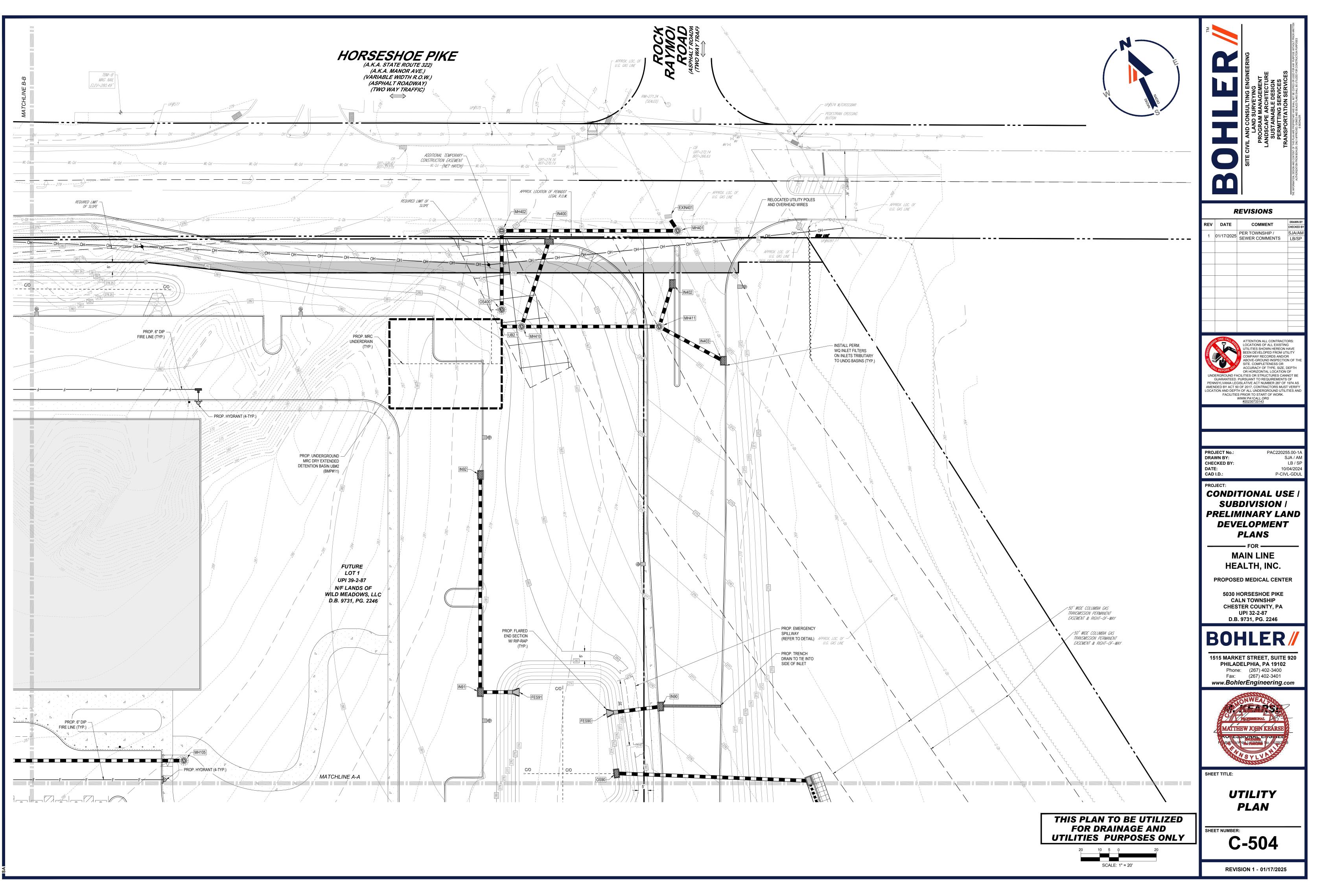


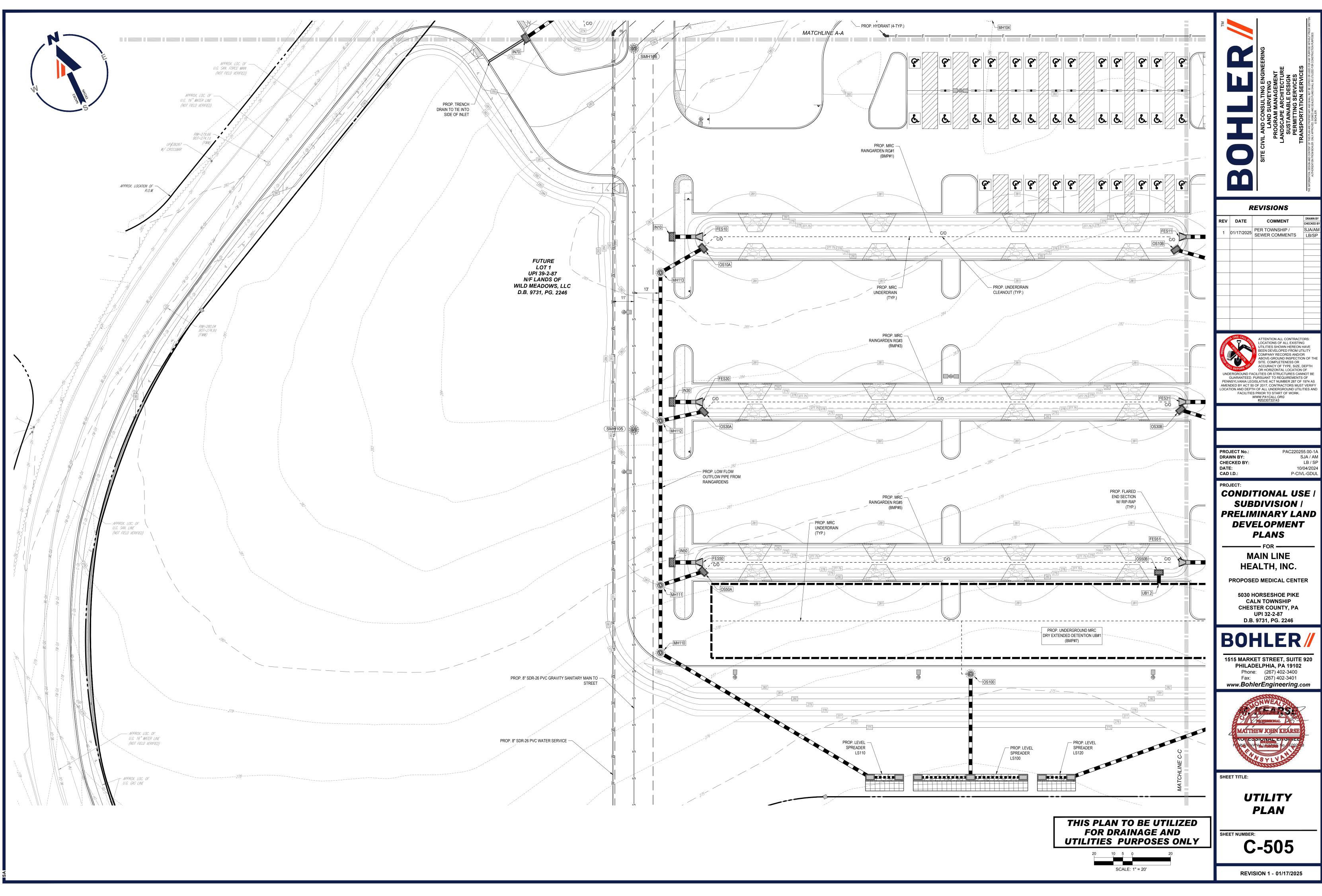
2022/PAC220255.00/CAD\DRAWINGS\PLAN SETS\CIVIL SITE PLANS\P-CIVL-GDUL-PAC220255.00-1A----->LAYOUT: C-501 UTIL-

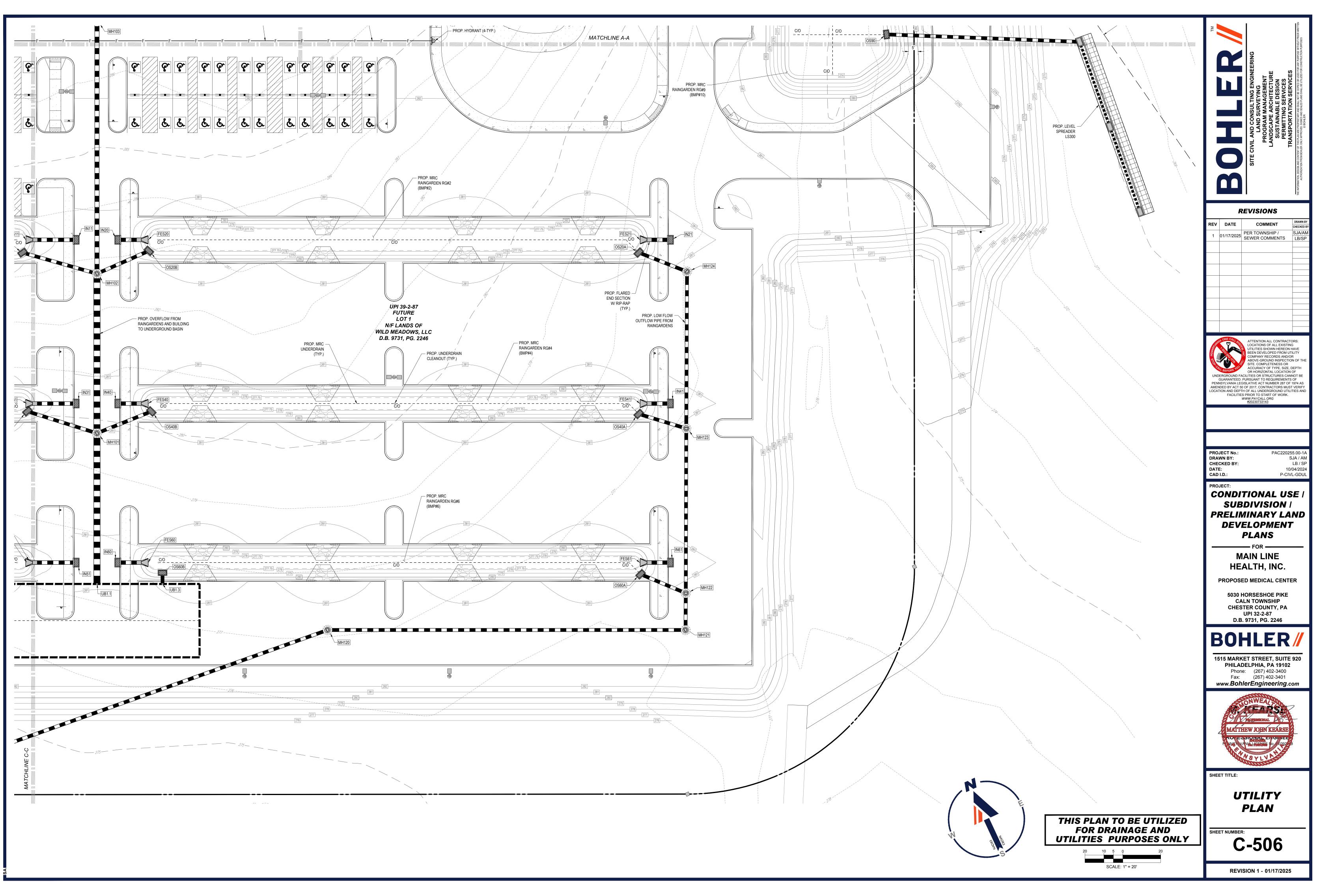


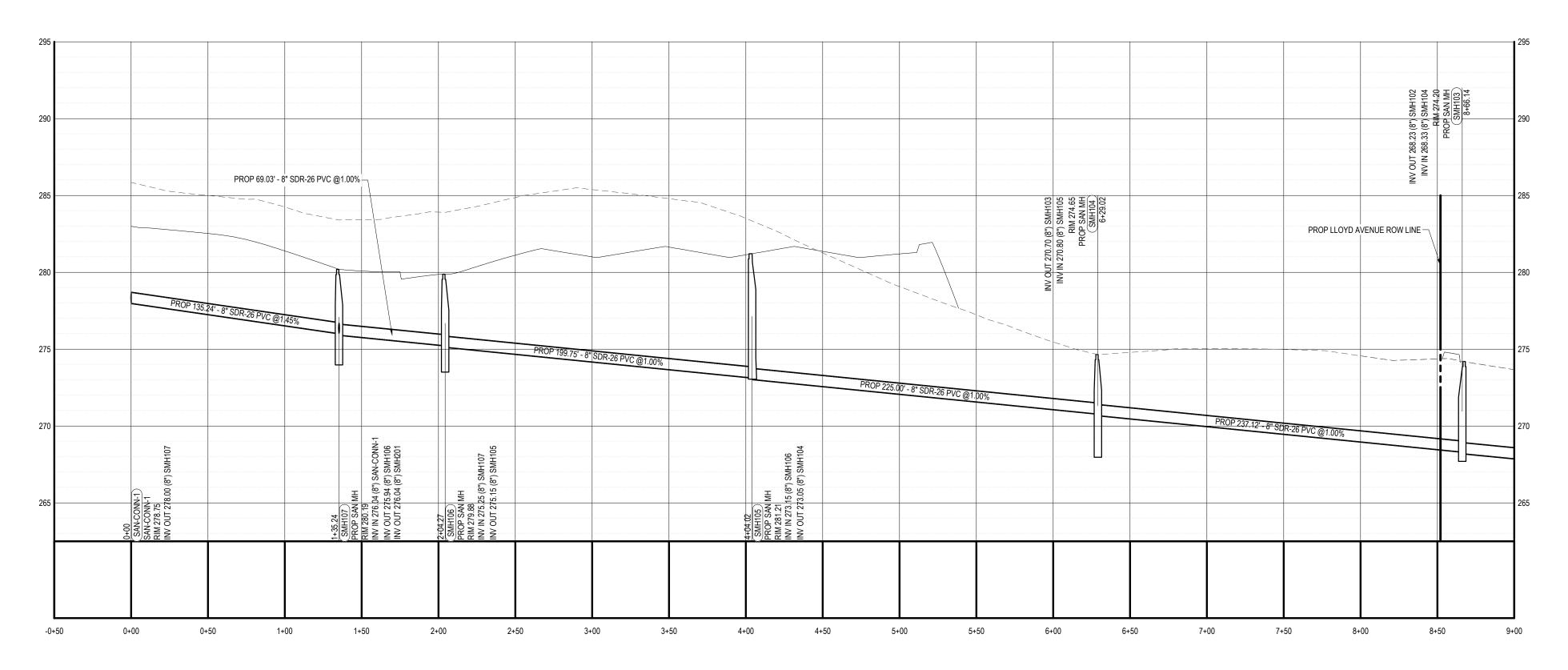


2\PAC220255.00\CAD\DRAWINGS\PLAN SETS\CIVIL SITE PLANS\P-CIVL-GDUL-PAC220255.00-1A----->LAYOUT: C-503 UTIL-



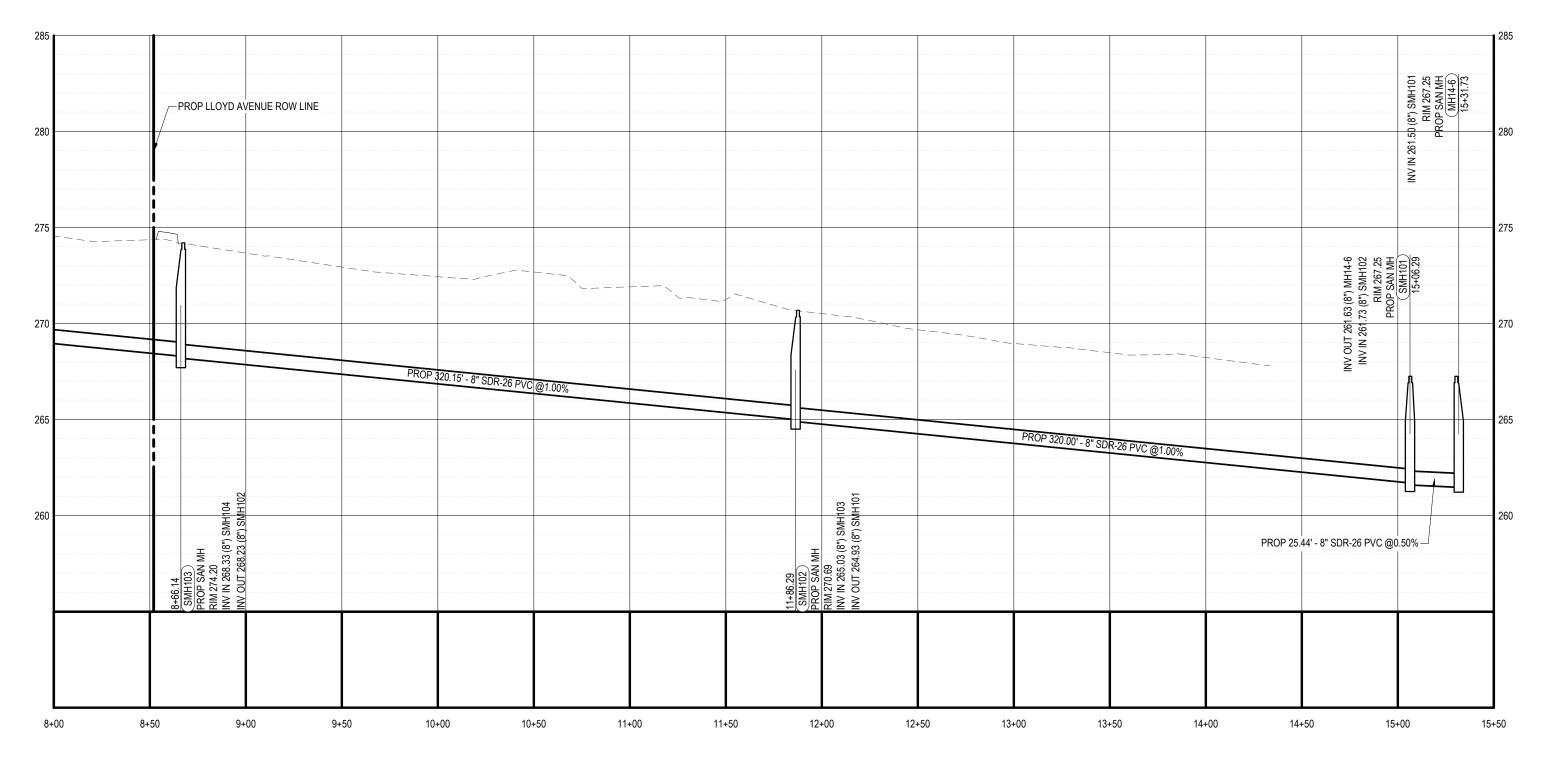






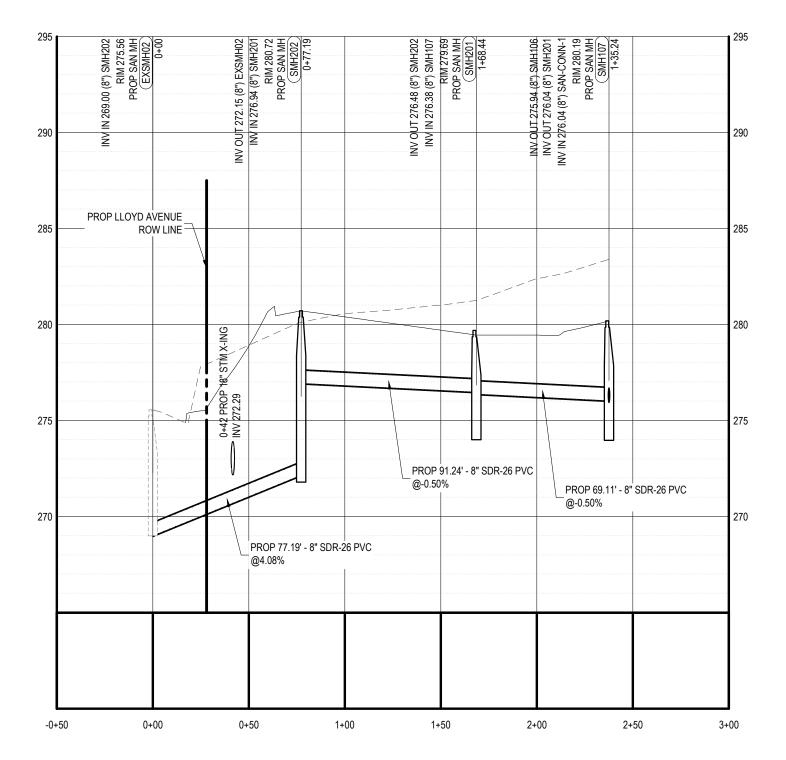
PROPOSED SANITARY PROFILE (SAN-CONN-1 TO SMH103)

SCALE: 1"= 50 ' HORIZONTAL 1"= 5 ' VERTICAL



PROPOSED SANITARY PROFILE (SMH103 TO MH14-6)

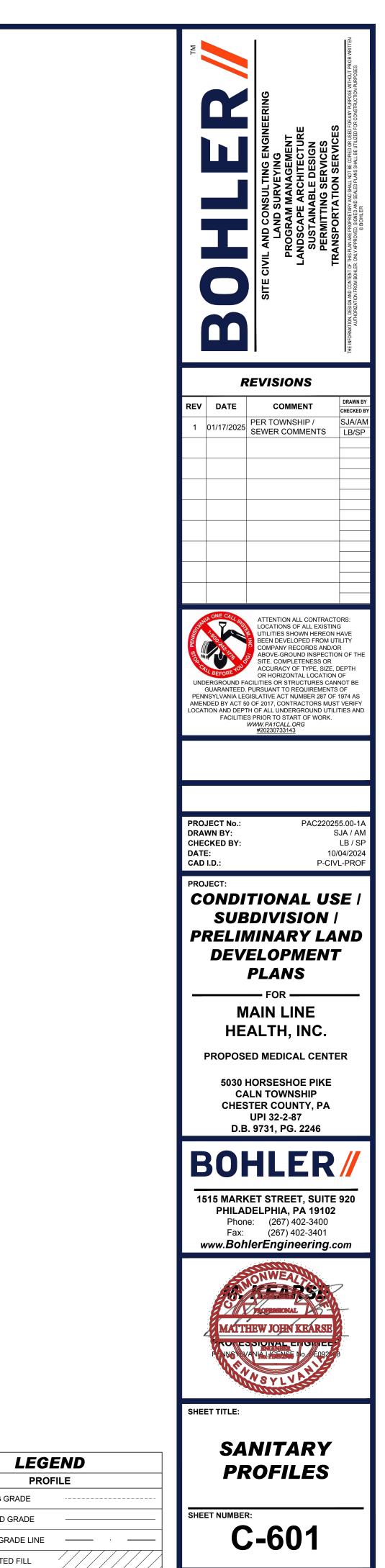
SCALE: 1"= 50 ' HORIZONTAL 1"= 5 ' VERTICAL



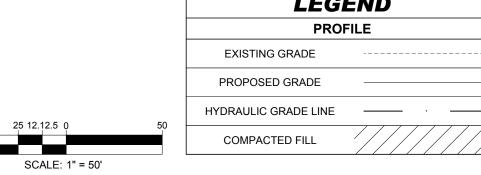
PROPOSED SANITARY PROFILE (EXSMH02 TO SMH107)

SCALE: 1"= 50 ' HORIZONTAL 1"= 5 ' VERTICAL

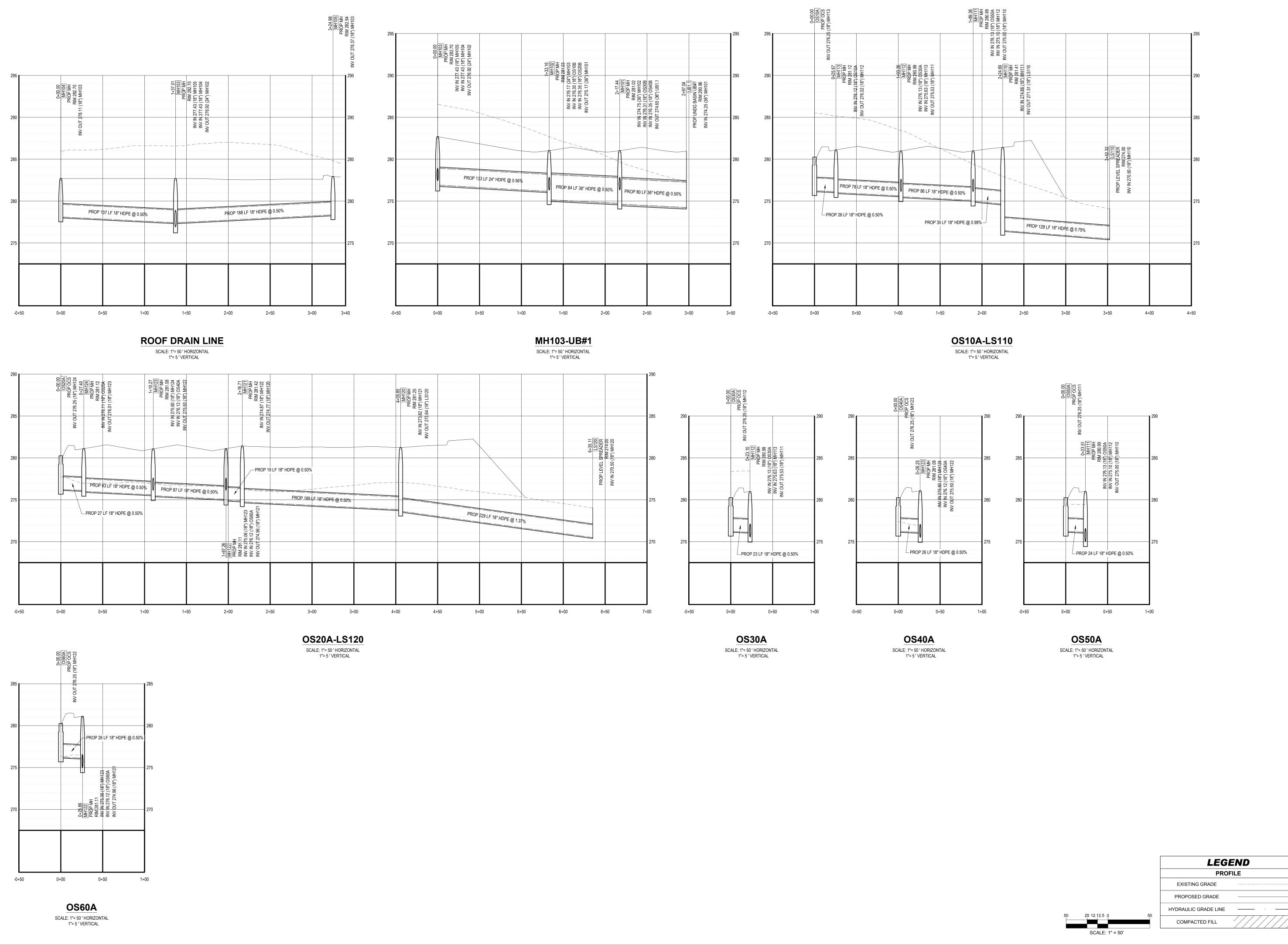
CONNECTION TO EXISTING SANITARY MANHOLE 02 TO BE COORDINATED WITH CTMA. PUMP MAY BE REQUIRED.

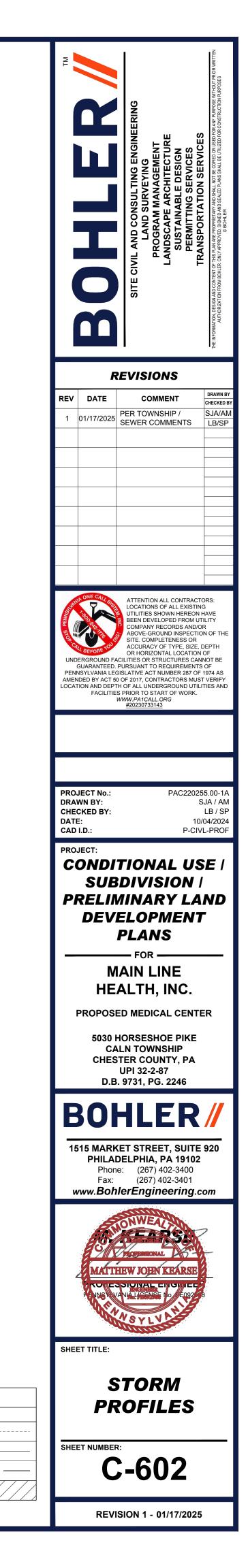


50



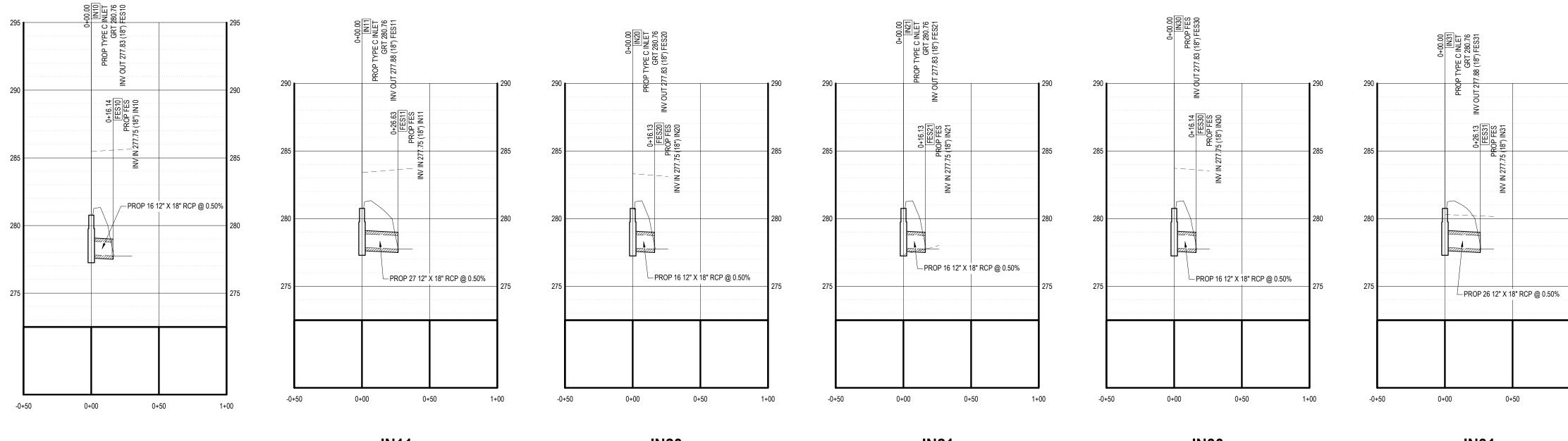
REVISION 1 - 01/17/2025





LEGEND

PROFILE

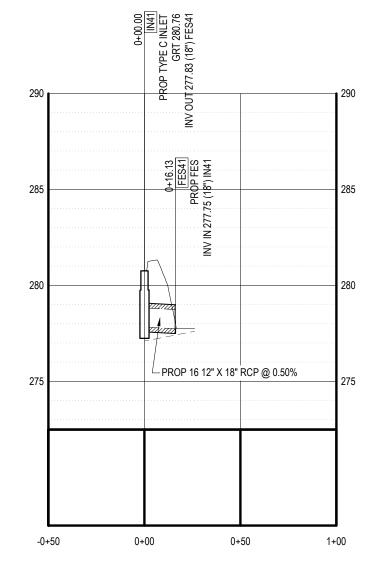


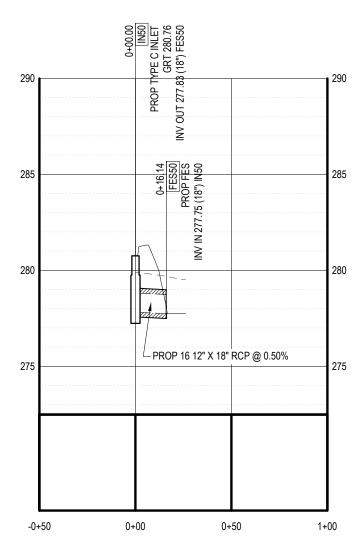


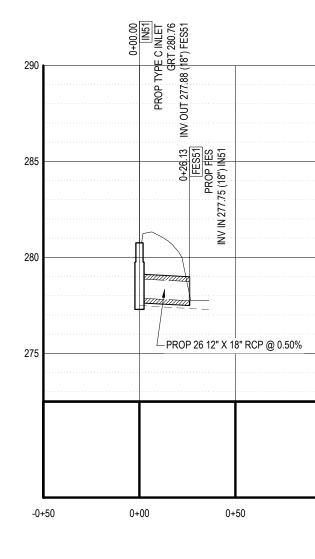




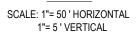














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+05.94 UB1.3 BASIN

PROP 776.47

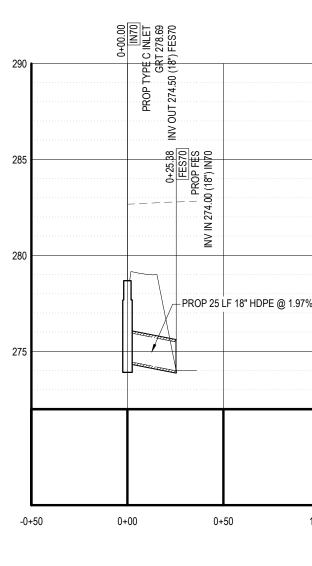
PROP 6 LF 18" HDPE @ 0.50%

0+50

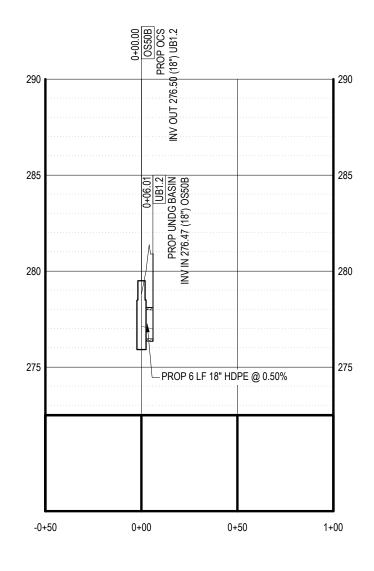
1+00

IN51 SCALE: 1"= 50 ' HORIZONTAL 1"= 5 ' VERTICAL

1+00



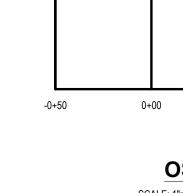




OS50B

SCALE: 1"= 50 ' HORIZONTAL

1"= 5 ' VERTICAL

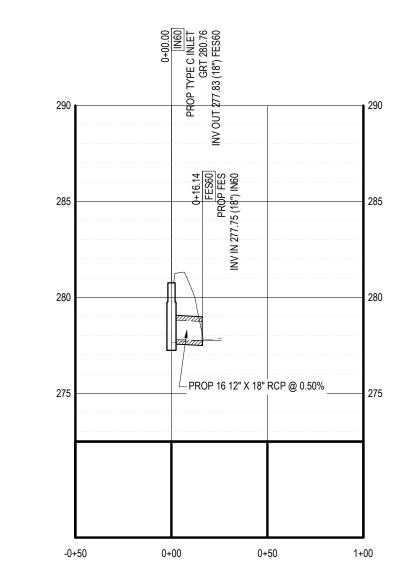


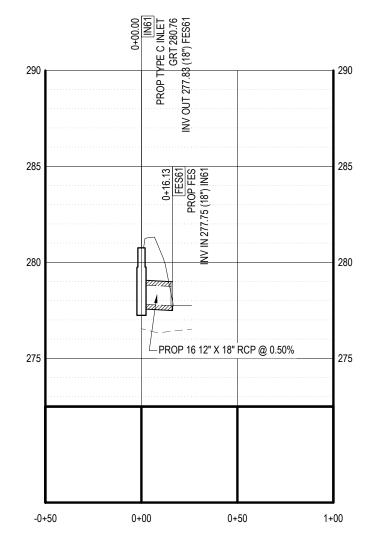
OS60B SCALE: 1"= 50 ' HORIZONTAL 1"= 5 ' VERTICAL

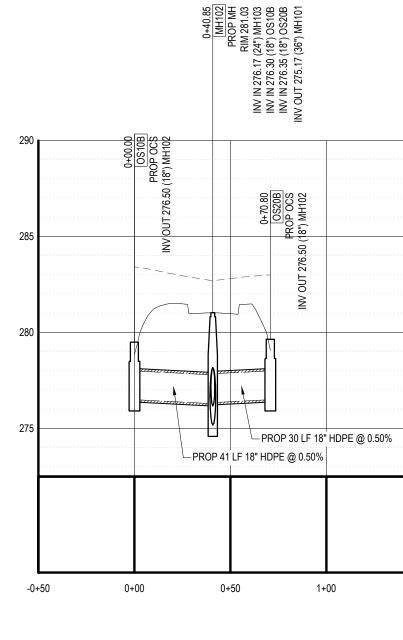
IN21 SCALE: 1"= 50 ' HORIZONTAL 1"= 5 ' VERTICAL

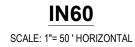


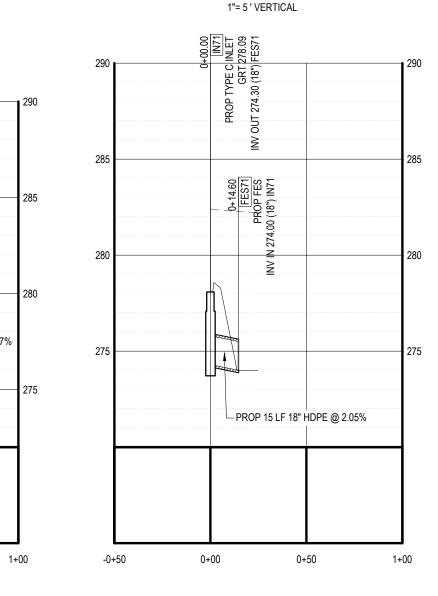




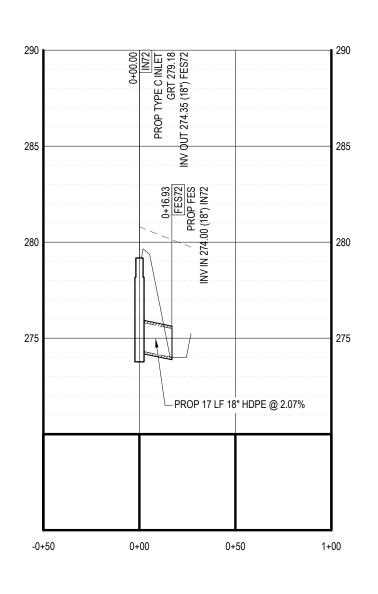




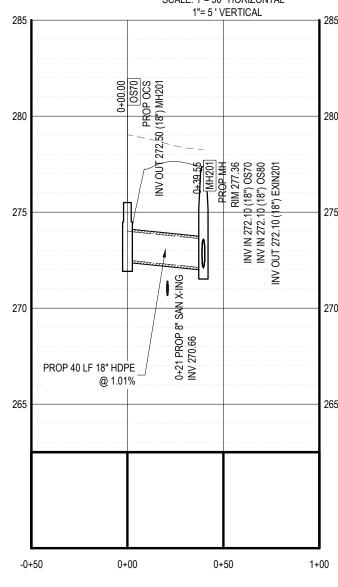




IN61 SCALE: 1"= 50 ' HORIZONTAL 1"= 5 ' VERTICAL



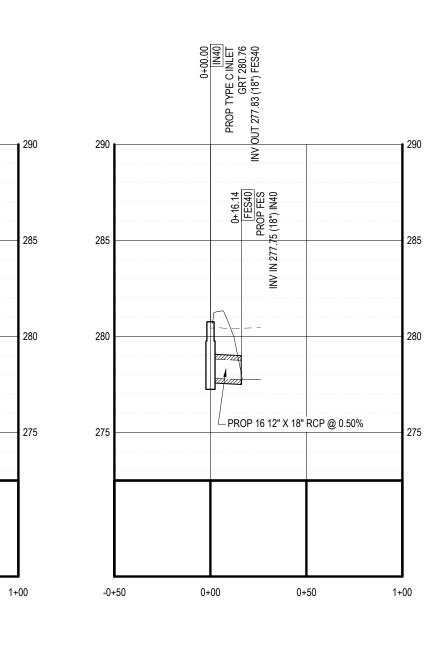
OS10B-OS20B SCALE: 1"= 50 ' HORIZONTAL



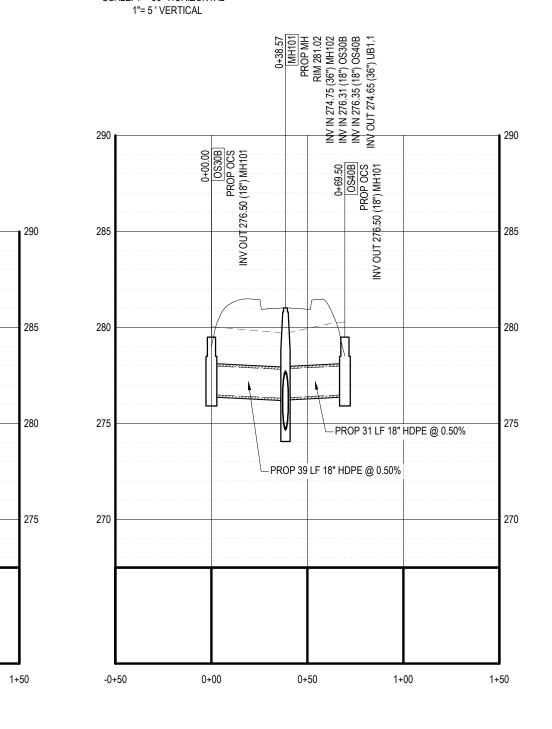
OS70 SCALE: 1"= 50 ' HORIZONTAL 1"= 5 ' VERTICAL



IN71 SCALE: 1"= 50 ' HORIZONTAL 1"= 5 ' VERTICAL



IN40 SCALE: 1"= 50 ' HORIZONTAL



OS30B-OS40B

SCALE: 1"= 50 ' HORIZONTAL 1"= 5 ' VERTICAL

LEGEND

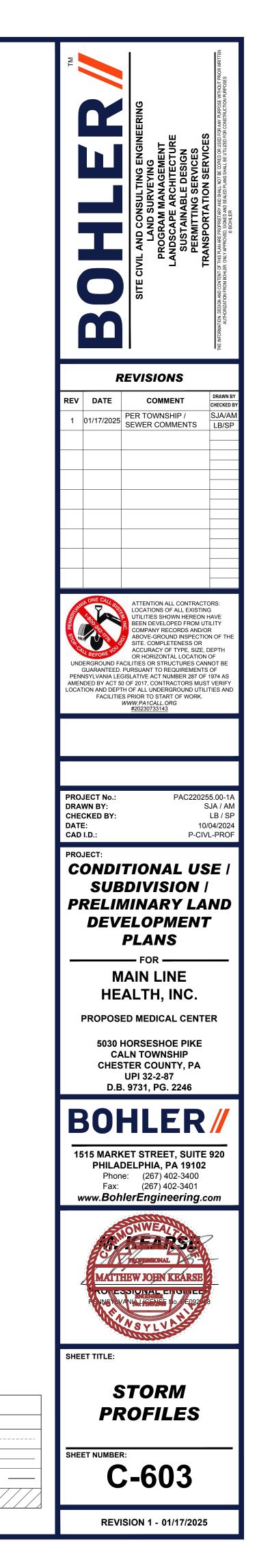
PROFILE

EXISTING GRADE

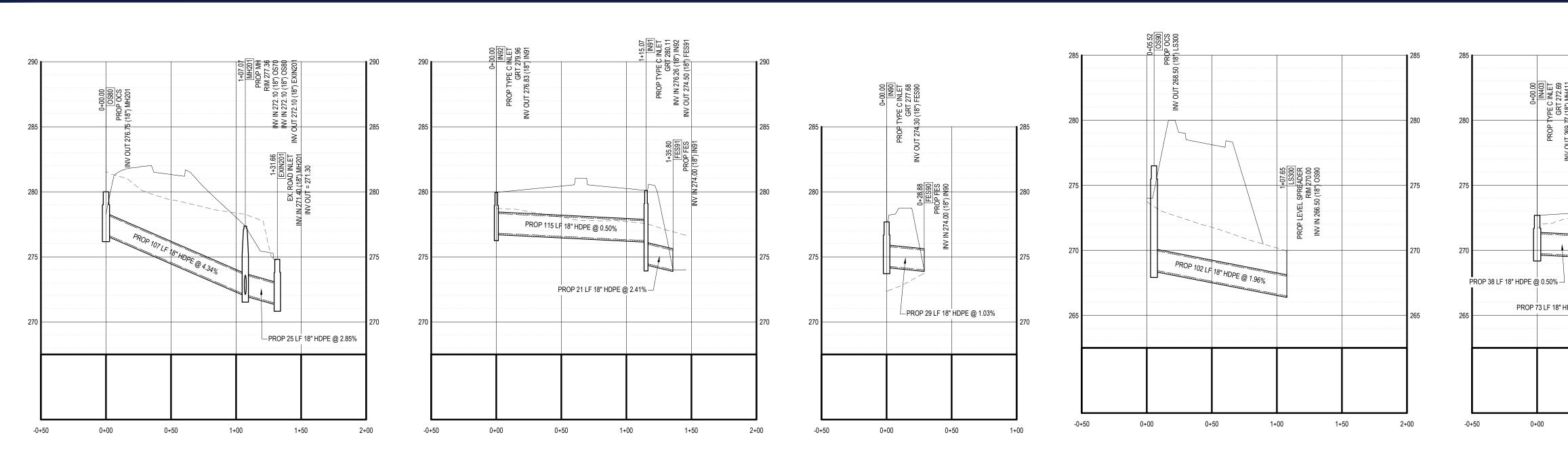
PROPOSED GRADE

HYDRAULIC GRADE LINE

COMPACTED FILL

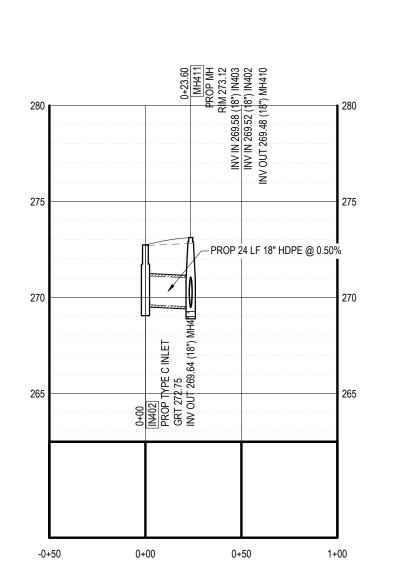


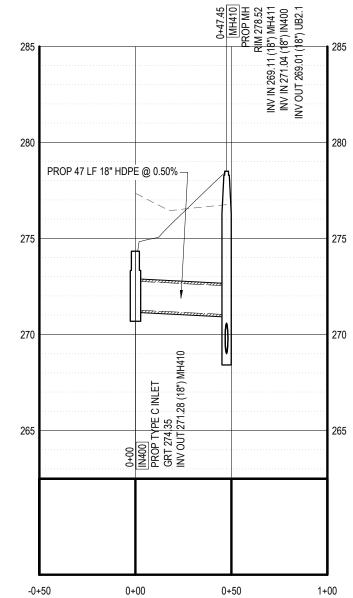
25 12.12.5 0 50 SCALE: 1" = 50'

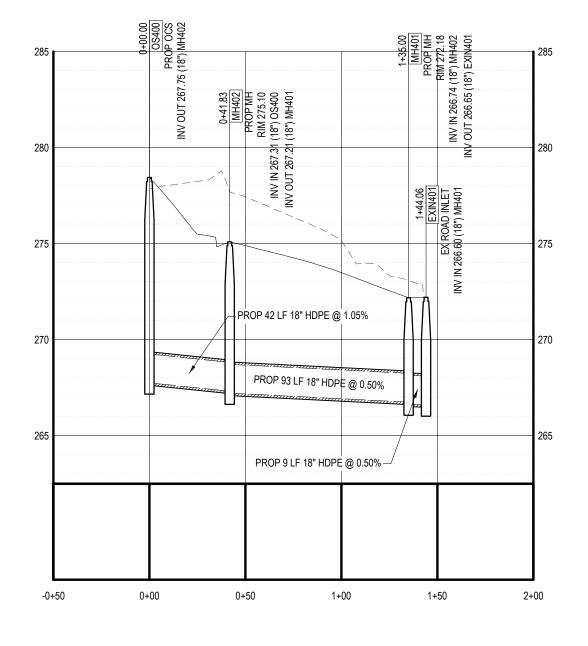


OS80 SCALE: 1"= 50 ' HORIZONTAL 1"= 5 ' VERTICAL IN92-FES91

SCALE: 1"= 50 ' HORIZONTAL 1"= 5 ' VERTICAL





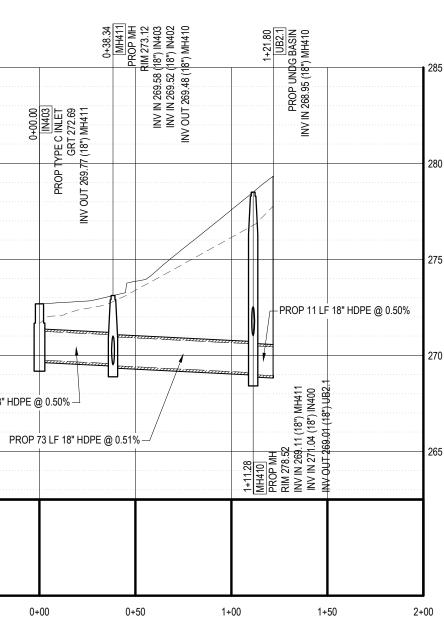


IN402-MH411 SCALE: 1"= 50 ' HORIZONTAL 1"= 5 ' VERTICAL IN400-MH410 SCALE: 1"= 50 ' HORIZONTAL 1"= 5 ' VERTICAL

OS400 SCALE: 1"= 50 ' HORIZONTAL 1"= 5 ' VERTICAL IN90-FES90

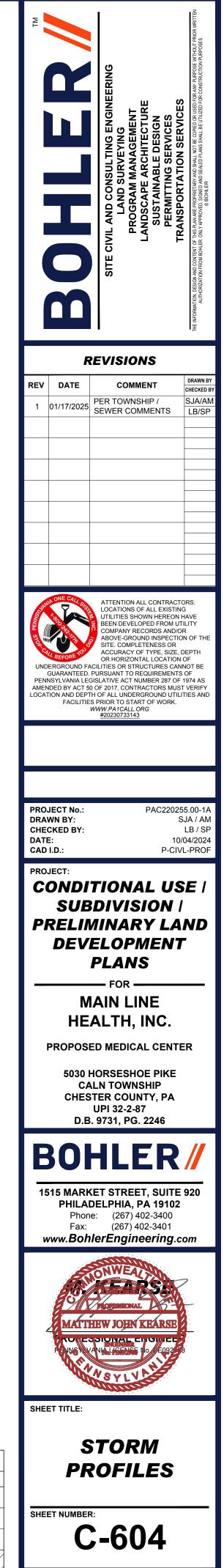
SCALE: 1"= 50 ' HORIZONTAL 1"= 5 ' VERTICAL

OS90 SCALE: 1"= 50 ' HORIZONTAL 1"= 5 ' VERTICAL



IN403-UB#2

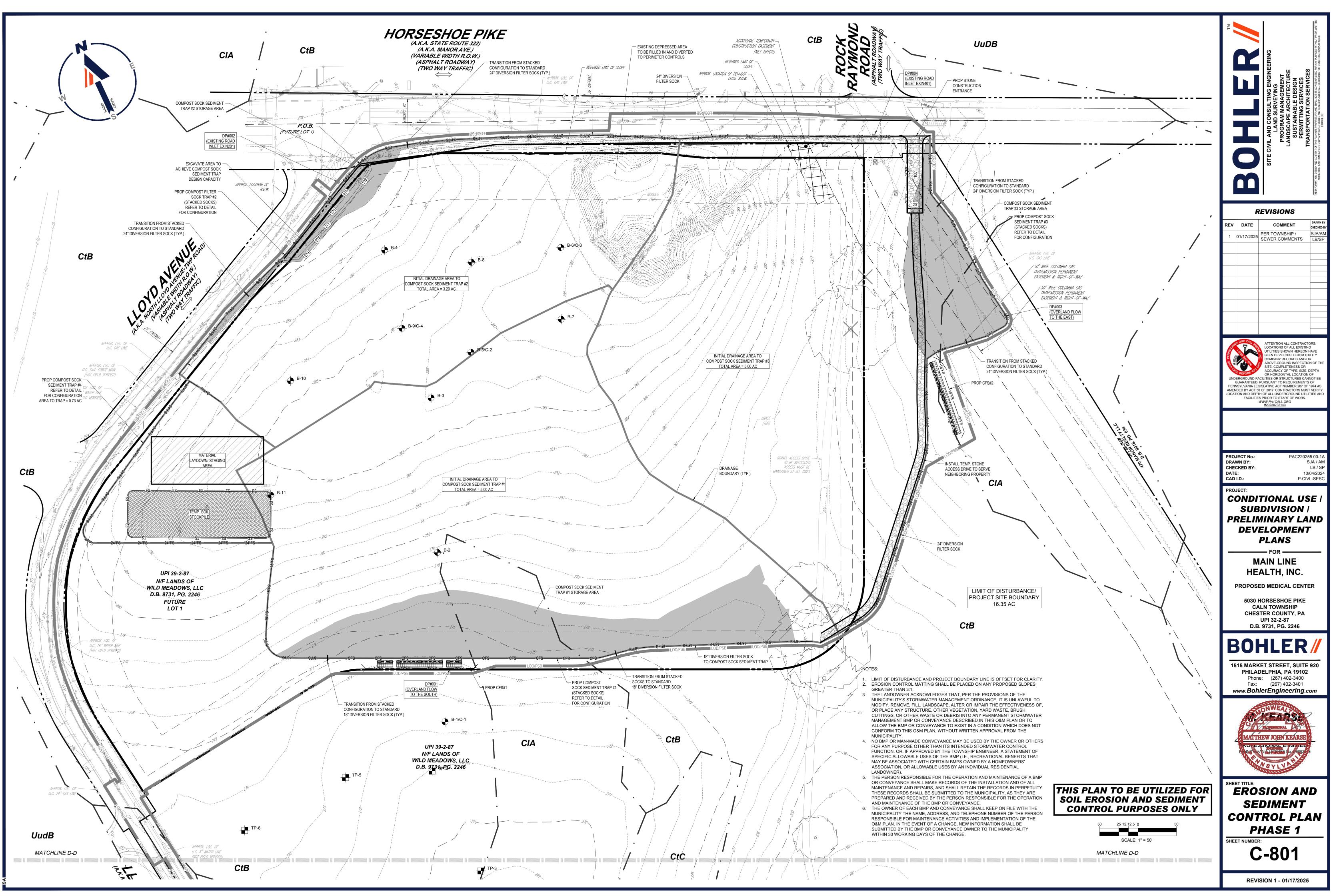
SCALE: 1"= 50 ' HORIZONTAL 1"= 5 ' VERTICAL

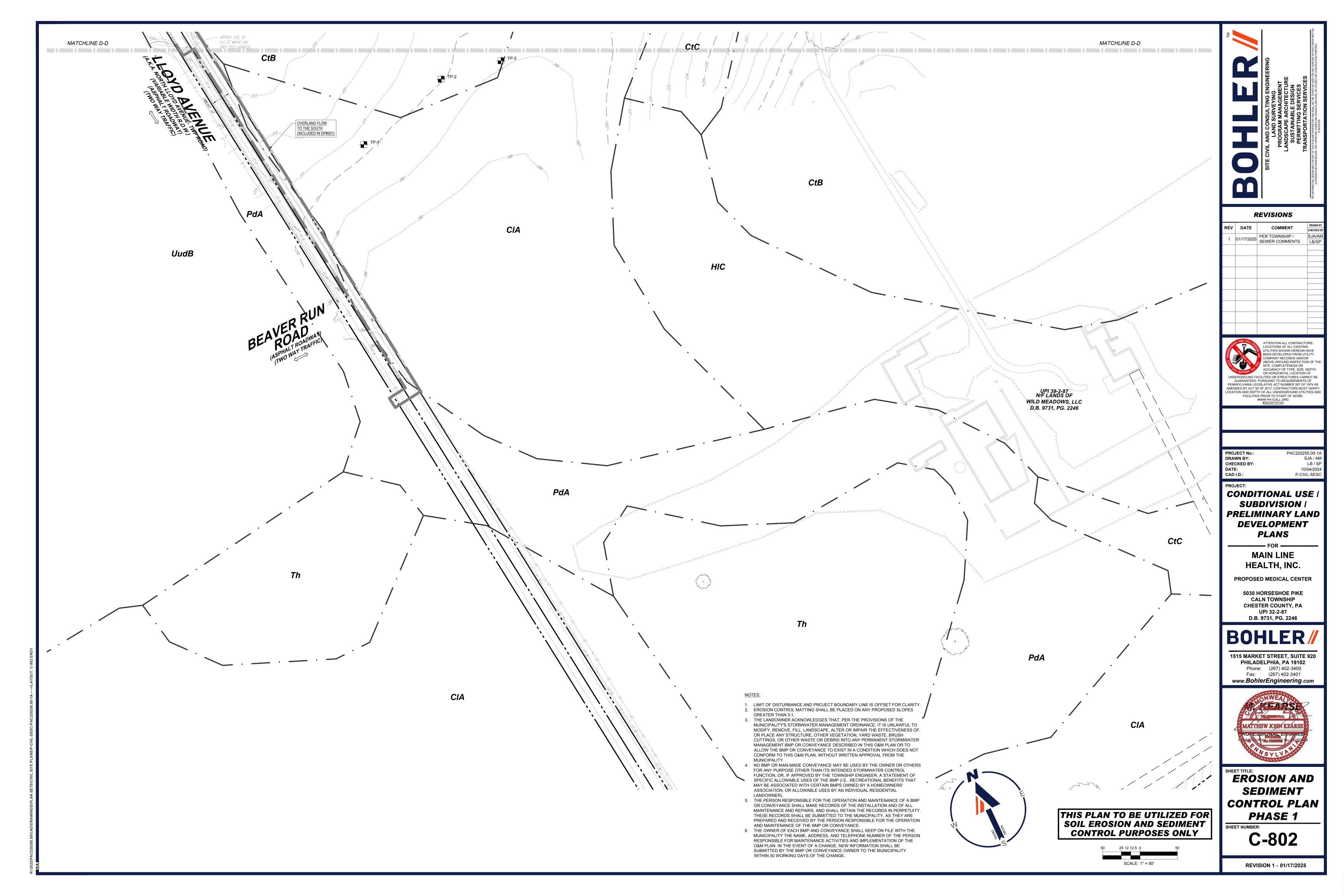


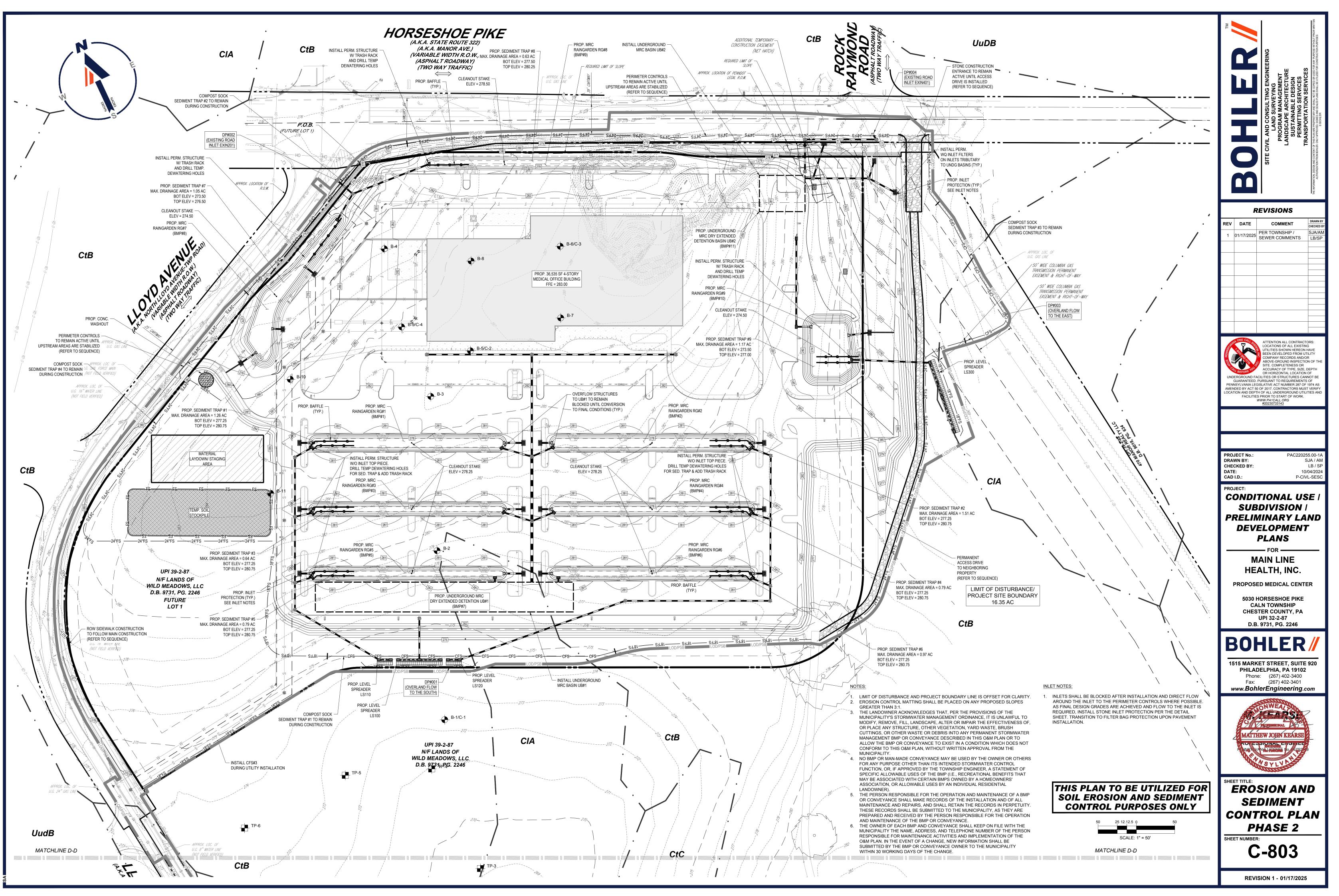
LEGEND					
PRO	FILE				
EXISTING GRADE					
PROPOSED GRADE					
HYDRAULIC GRADE LINE	·				
COMPACTED FILL					

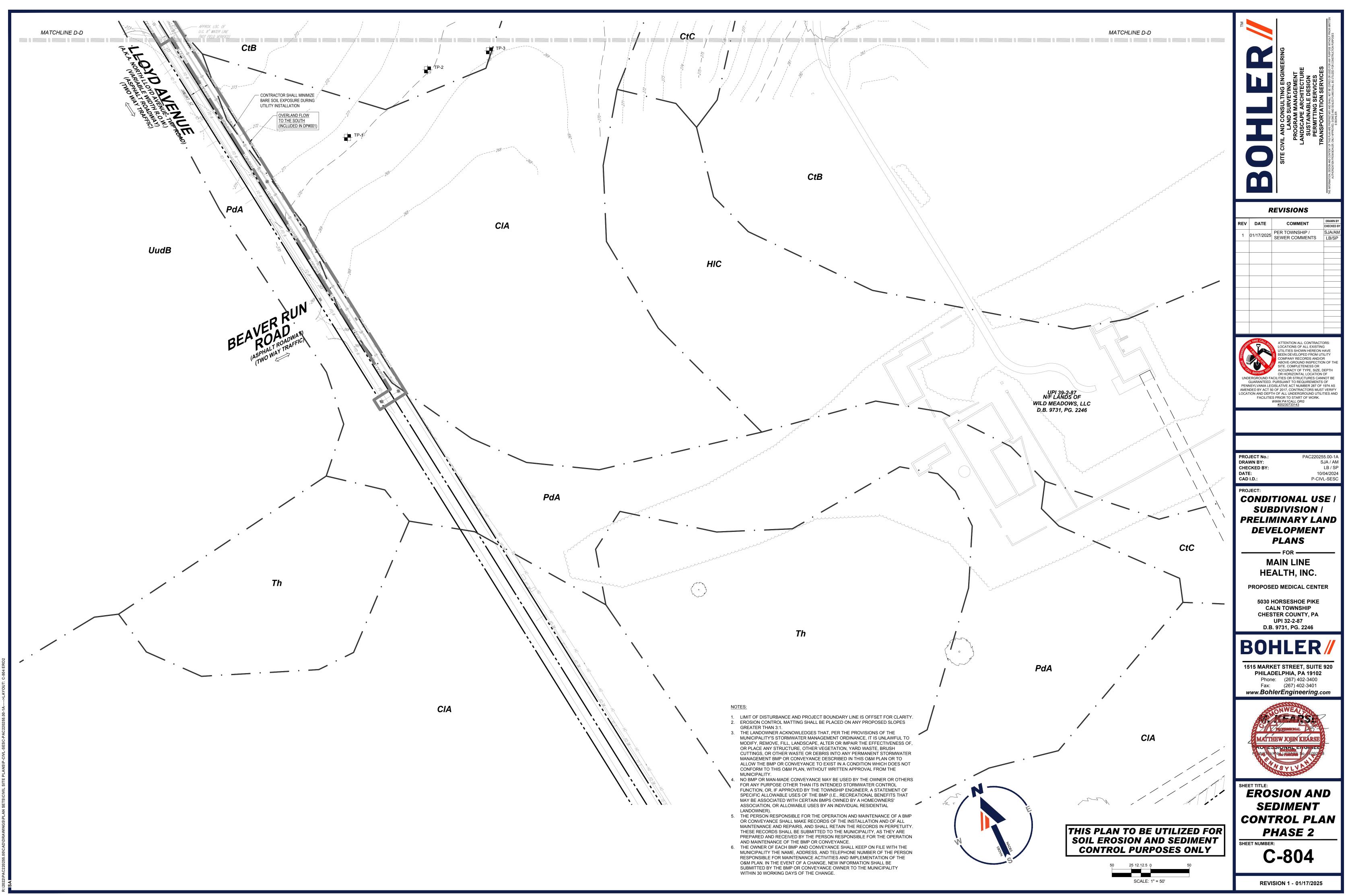
25 12.12.5 0 50 SCALE: 1" = 50'

REVISION 1 - 01/17/2025









SOIL EROSION GENERAL NOTES

THIS PLAN REPRESENTS THE MINIMUM LEVEL OF IMPLEMENTATION OF TEMPORARY EROSION AND SEDIMENTATION CONTROL STRUCTURES. ADDITIONAL FACILITIES OR MEASURES SHALL BE INSTALLED WHERE NECESSARY OR WHERE DIRECTED BY

- EITHER THE TOWNSHIP OR THE COUNTY CONSERVATION DISTRICT AS CONSTRUCTION PROGRESSES THE OWNER/CONSTRUCTION MANAGER IS RESPONSIBLE FOR ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROLS AND SITE STABILIZATION THE OWNER SHALL ASSIGN ONE INDIVIDUAL TO BE RESPONSIBLE FOR PROPER
- INSTALLATION AND MAINTENANCE OF ALL FACILITIES AND MEASURES. PROTECTION TO THE EXISTING TREES AND SHRUBS SHALL BE TAKEN BY THE CONTRACTOR TO ELIMINATE UNNECESSARY
- 4. ANY DRY FILL HAULED OFFSITE MUST BE TAKEN TO A LOCATION WITH AN EROSION AND SEDIMENTATION CONTROL PLAN WHICH HAS BEEN REVIEWED BY THE COUNTY CONSERVATION DISTRICT FOR ADEQUACY
- 5. EROSION AND SEDIMENTATION CONTROLS MUST BE CONSTRUCTED, STABILIZED, AND FUNCTIONAL BEFORE SITE DISTURBANCE WITHIN TRIBUTARY AREAS OF THOSE CONTROLS.
- STOCKPILES MUST BE STABILIZED IMMEDIATELY NO GRADING, EXCAVATING, REMOVAL OR DESTRUCTION OF THE TOPSOIL, TREES OR OTHER VEGETATIVE COVER OF THE LAND SHALL BE COMMENCED WITHIN A PROPOSED SUBDIVISION OR LAND DEVELOPMENT TRACT UNTIL SUCH TIME THAT A PLAN FOR SEDIMENTATION CONTROL AND MINIMIZING EROSION HAS BEEN REVIEWED AND FOUND SATISFACTORY BY THE COUNTY CONSERVATION DISTRICT AND REVIEWED AND APPROVED BY THE TOWNSHIP. OR THERE HAS BEEN A DETERMINATION BY THE
- OWNSHIP. UPON RECOMMENDATION BY THE COUNTY CONSERVATION DISTRICT. THAT SUCH PLANS ARE NOT NECESSARY 8. BEFORE INITIATING ANY REVISIONS TO THE APPROVED EROSION AND SEDIMENT CONTROL PLAN OR REVISIONS TO OTHER PLANS WHICH MAY AFFECT THE EFFECTIVENESS OF THE APPROVED E&S CONTROL PLAN, THE OPERATOR MUST RECEIVE
- APPROVAL OF THE REVISIONS FROM THE COUNTY CONSERVATION DISTRICT 9. THE OPERATOR SHALL ASSURE THAT AN EROSION AND SEDIMENT CONTROL PLAN HAS BEEN PREPARED. APPROVED BY THE
- COUNTY CONSERVATION DISTRICT AND IS BEING IMPLEMENTED AND MAINTAINED FOR ALL SOIL AND/OR ROCK SPOIL AND BORROW AREAS, REGARDLESS OF THEIR LOCATIONS. CONTRACTOR SHALL USE TREADED MACHINERY AND MINIMIZE SOIL COMPACTION WHEREVER POSSIBLE.

DEFINITION OF CLEAN FILL AND IMPORT/EXPORT

MATERIAL NOTES

(Rev. 5/2024

IF THE SITE WILL NEED TO IMPORT OR EXPORT MATERIAL FROM THE SITE, THE RESPONSIBILITY FOR PERFORMING ENVIRONMENTAL DUE DILIGENCE AND DETERMINATION OF CLEAN FILL WILL REST WITH THE APPLICANT

- CLEAN FILL IS DEFINED AS: UNCONTAMINATED, NON-WATER SOLUBLE, NON-DECOMPOSABLE, INERT, SOLID MATERIAL, THE TERM INCLUDES SOIL ROCK STONE DREDGED MATERIAL USED ASPHALT AND BRICK BLOCK OR CONCRETE FROM CONSTRUCTION AND DEMOLITION ACTIVITIES THAT IS SEPARATE FROM OTHER WASTE AND IS RECOGNIZABLE AS SUCH. THE TERM DOES NOT INCLUDE MATERIALS PLACED IN OR ON THE WATERS OF THE COMMONWEALTH UNLESS OTHERWISE AUTHORIZED. (THE TERM "USED ASPHALT" DOES NOT INCLUDE MILLED ASPHALT OR ASPHALT THAT HAS BEEN PROCESSED FOR
- 2. CLEAN FILL AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE: FILL MATERIALS AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE STILL QUALIFIES AS CLEAN FILL PROVIDED THE TESTING REVEALS THAT THE FILL MATERIAL CONTAINS CONCENTRATIONS OF REGULATED SUBSTANCES THAT ARE BELOW THE RESIDENTIAL LIMITS IN TABLES.
- FP-1A AND FP-1B FOUND IN THE DEPARTMENT'S POLICY "MANAGEMENT OF FILL' ANY PERSON PLACING CLEAN FILL THAT HAS BEEN AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE MUST USE FORM FP-001 TO CERTIFY THE ORIGIN OF THE FILL MATERIAL AND THE RESULTS OF THE ANALYTICAL TESTING TO QUALIFY THE MATERIAL AS CLEAN FILL. FORM FP-001 MUST BE RETAINED BY THE OWNER OF THE PROPERTY RECEIVING THE FILL. A COPY OF FORM FP-001 CAN BE FOUND AT THE END OF THESE INSTRUCTIONS
- ENVIRONMENTAL DUE DILIGENCE: THE APPLICANT MUST PERFORM ENVIRONMENTAL DUE DILIGENCE TO DETERMINE IF THE FILL MATERIALS ASSOCIATED WITH THE PROJECT QUALIFY AS CLEAN FILL. ENVIRONMENTAL DUE DILIGENCE IS DEFINED AS: INVESTIGATIVE TECHNIQUES, INCLUDING, BUT NOT LIMITED TO, VISUAL PROPERTY INSPECTIONS, ELECTRONIC DATA BASE SEARCHES, REVIEW OF PROPERTY OWNERSHIP, REVIEW OF PROPERTY USE HISTORY, SANBORN MAPS, ENVIRONMENTAL QUESTIONNAIRES, TRANSACTION SCREENS, ANALYTICAL TESTING, ENVIRONMENTAL ASSESSMENTS OR AUDITS. ANALYTICAL TESTING IS NOT A REQUIRED PART OF DUE DILIGENCE UNLESS VISUAL INSPECTION AND/OR REVIEW OF THE PAST LAND USE OF THE PROPERTY INDICATES THAT THE FILL MAY HAVE BEEN SUBJECTED TO A SPILL OR RELEASE OF REGULATED SUBSTANCE. IF THE FILL MAY HAVE BEEN AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE, IT MUST BE TESTED TO DETERMINE IF IT QUALIFIES AS CLEAN FILL. TESTING SHOULD BE PERFORMED IN ACCORDANCE WITH APPENDIX A OF THE DEPARTMENT'S POLICY "MANAGEMENT OF FILL'

FILL MATERIAL THAT DOES NOT QUALIFY AS CLEAN FILL IS REGULATED FILL, REGULATED FILL IS WASTE AND MUST BE MANAGED IN ACCORDANCE WITH THE DEPARTMENT'S MUNICIPAL OR RESIDUAL WASTE REGULATIONS BASED ON 25 PA. CODE CHAPTERS 287 RESIDUAL WASTE MANAGEMENT OR 271 MUNICIPAL WASTE MANAGEMENT, WHICHEVER IS APPLICABLE. THE REGULATIONS ARE AVAILABLE ON-LINE AT WWW.PACODE.COM

RECYCLING OR DISPOSAL OF MATERIAL

(Rev. 5/2024)

(Rev. 5/2024)

(Rev. 5/2024)

(Rev. 5/2024)

§102.4(b)(5)(xi

THE FOLLOWING IS A LIST THAT INCLUDES. BUT THAT IS NOT LIMITED TO, THE POTENTIAL CONSTRUCTION WASTES THAT MAY EXIST ON-SITE - CONCRETE CURB AND SIDEWALK

- E&S BMP COMPOST FILTER SOCKS
- F&S BMP TEMPORARY RISER - E&S BMP - EROSION CONTROL MATTING
- E&S BMP INLET PROTECTION

ALL BUILDING MATERIALS AND WASTES SHALL BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 Pa. CODE 260.1 ET SEQ, 271.1, AND 287.1 ET SEQ. NO BUILDING MATERIALS OR WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THE SITE BELOW IS A LIST OF METHODS FOR THE PROPER RECYCLING/DISPOSAL OF VARIOUS MATERIALS.

- DUST CONTROL CONSTRUCTION TRAFFIC MUST ENTER AND EXIT THE SITE AT THE STABILIZED CONSTRUCTION ENTRANCE. THE PURPOSE IS TO TRAP DUST AND MUD THAT WOULD OTHERWISE BE CARRIED OFF-SITE BY CONSTRUCTION TRAFFIC. WATER TRUCKS WILL BE USED AS NEEDED DURING CONSTRUCTION TO REDUCE DUST GENERATED ON THE SITE. DUST CONTROL MUST BE PROVIDED BY THE CONTRACTOR TO A DEGREE THAT IS ACCEPTABLE TO THE LOCAL CONSERVATION DISTRICT. AFTER CONSTRUCTION. THE SITE WILL BE STABILIZED. WHICH WILL REDUCE THE POTENTIAL FOR DUST GENERATION. SOLID WASTE DISPOSAL - NO SOLID MATERIALS, INCLUDING BUILDING MATERIALS, ARE ALLOWED TO BE DISCHARGED FROM THE
- SITE WITH STORMWATER. ALL SOLID WASTE, INCLUDING DISPOSABLE MATERIALS INCIDENTAL TO THE MAJOR CONSTRUCTION ACTIVITIES, MUST BE COLLECTED AND PLACED IN CONTAINERS. THE CONTAINERS WILL BE EMPTIED AS NECESSARY BY A ONTRACT TRASH DISPOSAL SERVICE AND HAULED AWAY FROM THE SITE. SANITARY FACILITIES - ALL PERSONNEL INVOLVED WITH CONSTRUCTION ACTIVITIES MUST COMPLY WITH STATE AND LOCAL SANITARY OR SEPTIC SYSTEM REGULATIONS. TEMPORARY SANITARY FACILITIES WILL BE PROVIDED AT THE SITE THROUGHOUT
- HE CONSTRUCTION PHASE. THEY MUST BE UTILIZED BY ALL CONSTRUCTION PERSONNEL AND WILL BE SERVICED BY A LICENSED COMMERCIAL OPERATOR. WATER SOURCE - NON-STORMWATER COMPONENTS OF SITE DISCHARGE MUST BE CLEAN WATER. WATER USED FOR CONSTRUCTION WHICH DISCHARGES FROM THE SITE MUST ORIGINATE FROM A PUBLIC WATER SUPPLY OR PRIVATE WELL APPROVED BY THE STATE HEALTH DEPARTMENT. WATER USED FOR CONSTRUCTION THAT DOES NOT ORIGINATE FROM AN
- APPROVED PUBLIC SUPPLY MUST NOT DISCHARGE FROM THE SITE. CONCRETE WASTE FROM CONCRETE READY-MIX TRUCKS - DISCHARGE OF EXCESS OR WASTE CONCRETE AND/OR WASH WATER FROM CONCRETE TRUCKS WILL BE ALLOWED ON THE CONSTRUCTION SITE, BUT ONLY IN SPECIFICALLY DESIGNATED DIKED AREAS PREPARED TO PREVENT CONTACT BETWEEN THE CONCRETE AND/OR WASH WATER AND STORMWATER THAT WILL BE DISCHARGED FROM THE SITE

E&S PLAN DESIGNED AND IMPLEMENTED

TO BE CONSISTENT WITH PCSM PLAN

§102.4(b)(5)(xiv

REGARDING THE LOCATIONS OF EXISTING RIPARIAN BUFFERS RELATIVE TO THE LIMIT OF DISTURBANCE AND WHETHER PROPOSED INFILTRATION FACILITIES ARE OUTSIDE OF PROPOSED GRADING AREAS, NOTE THE FOLLOWING: • THERE ARE NO EXISTING OR PROPOSED RIPARIAN BUFFERS.

• THERE ARE NO PROPOSED INFILTRATION BMPs OUTSIDE OF PROPOSED GRADING AREAS.

CRITICAL STAGES

• INSTALLATION OF ALL MRC BMPs (BOTH SURFACE RAIN GARDENS AND UNDERGROUND SYSTEMS).

LOCATION OF ALL SURFACE WATERS AND THEIR

• CONVERSION OF EACH SEDIMENT TRAP TO THE FINAL MRC RAINGARDEN CONDITION.

CLASSIFICATION UNDER CHAPTER 93

(Rev. 5/2024) §102.4(b)(5)(v)

DISCHARGE POINTS #1 AND #3 OF THE SUBJECT SITE DRAIN TO BEAVER CREEK, WHICH HAS A COLD WATER FISHES (CWF) CHAPTER 93 CLASSIFICATION. DISCHARGE POINTS #2 AND #4 OF THE SUBJECT SITE DRAIN TO THE EAST BRANCH OF BRANDYWINE CREEK, WHICH HAS A WARM WATER FISHES (WWF) CHAPTER 93 CLASSIFICATION

RECEIVING SURFACE WATERS

§102.8(f)(5)

- DISCHARGE POINTS #1 AND #3 OF THE SUBJECT SITE DRAIN TO BEAVER CREEK, WHICH HAS A COLD WATER FISHES (CWF) CHAPTER 93 CLASSIFICATION. DISCHARGE POINTS #2 AND #4 OF THE SUBJECT SITE DRAIN TO THE EAST BRANCH OF
- BRANDYWINE CREEK, WHICH HAS A WARM WATER FISHES (WWF) CHAPTER 93 CLASSIFICATION. 2. THE DEVELOPMENT IS IN NEITHER AN HQ NOR AN EV WATERSHED AND THEREFORE, NO BOUNDARIES ARE SHOWN.
- 3. THERE ARE NO WETLANDS LOCATED ON THE PROJECT SITE.

GEOLOGIC FORMATIONS/SOIL CONDITIONS THAT

MAY HAVE THE POTENTIAL TO CAUSE POLLUTION (Rev. 5/2024)

§102.4(b)(5)(xii)

THERE ARE NO GEOLOGIC FORMATIONS OR SOIL CONDITIONS THAT COULD CAUSE CONTAMINANT POLLUTION DURING EARTH DISTURBANCE ACTIVITIES.

MAINTENANCE, MONITORING AND

INSPECTION PROGRAM

UNTIL THE SITE IS STABILIZED AND DURING CONSTRUCTION ACTIVITIES. ALL BMPs MUST BE MAINTAINED PROPERLY BY THE

§102.4(b)(5)(x

CONTRACTOR. MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL BMPs AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS TO ENSURE THEIR EFFECTIVE AND EFFICIENT OPERATION. SEE EROSION AND SEDIMENT DETAILS FOR ADDITIONAL INSPECTION AND VAINTENANCE REQUIREMENTS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN-OUT, REPAI REPLACEMENT, REGRADING, RESEEDING, REMULCHING, AND RENETTING MUST BE PERFORMED IMMEDIATELY AND IN ACCORDANCE WITH THESE PROCEDURES PLANS AND DETAILS ANY AREAS DISTURBED DURING MAINTENANCE MUST BE STABILIZED IMMEDIATELY IN ACCORDANCE WITH THE GENERAL CONSERVATION NOTES AND SPECIFICATIONS. ALL SITE INSPECTIONS MUST BE DOCUMENTED IN AN INSPECTION LOG KEPT FOR THIS PURPOSE INDICATING THE COMPLIANCE ACTIONS AND THE DATE, TIME AND NAME OF THE PERSON CONDUCTING THE INSPECTION. THE INSPECTION LOG MUST BE KEPT ON SITE AT ALL TIMES AND MADE AVAILABLE TO THE DISTRICT UPON REQUEST

INSPECTIONS SHALL EVALUATE DISTURBED AREAS AND AREAS USED FOR STORING MATERIALS THAT ARE EXPOSED TO RAINFALL FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM OR DISCHARGING FROM THE SITE. IF NECESSARY, THE MATERIALS MUST BE COVERED OR ORIGINAL COVERS MUST BE REPAIRED OR SUPPLEMENTED. ALL AREAS DISTURBED DURING THE EARTHWORK PHASE OF CONSTRUCTION MUST BE TEMPORARILY SEEDED AND STABILIZED IF STABILIZATION CANNOT BE ACHIEVED WITHIN FOUR (4) DAYS. ALSO, PROTECTIVE BERMS MUST BE CONSTRUCTED, IF NEEDED, IN ORDER TO CONTAIN RUNOFF FROM MATERIAL STORAGE AREAS.

GRASSED AREAS SHALL BE INSPECTED TO CONFIRM THAT A HEALTHY STAND OF GRASS IS MAINTAINED. THE SITE HAS ACHIEVED FINAL STABILIZATION ONCE ALL AREAS ARE COVERED WITH BUILDING FOUNDATION OR PAVEMENT, OR HAVE A STAND OF GRASS WITH AT LEAST 70 PERCENT DENSITY OR GREATER IN ACCORDANCE WITH PERMIT REQUIREMENTS. THE VEGETATIVE DENSITY MUST BE MAINTAINED TO BE CONSIDERED STABILIZED. AREAS MUST BE WATERED, FERTILIZED, AND RESEEDED AS NEEDED TO ACHIEVE THIS REQUIREMENT

AND REPORTS SHALL BE COMPLETED IN A FORMAT PROVIDED BY THE DEPARTMENT, AND CONDUCTED BY QUALIFIED PERSONNEL A SUMMARY OF SITE CONDITIONS, E&S BMP AND PCSM BMP, IMPLEMENTATION AND MAINTENANCE AND COMPLIANCE ACTIONS: THE DATE, TIME, NAME AND SIGNATURE OF THE PERSON CONDUCTING THE INSPECTION. JONCOMPLIANCE REPORT DISTRICT, BY PHONE OR PERSONAL CONTACT, FOLLOWED BY THE SUBMISSION OF A WRITTEN REPORT WITHIN 5 DAYS OF THE ANY CONDITION ON THE PROJECT SITE WHICH MAY ENDANGER PUBLIC HEALTH. SAFETY, OR THE ENVIRONMENT, OR INVOLVE

ALL DISCHARGE POINTS MUST BE INSPECTED TO DETERMINE WHETHER EROSION AND SEDIMENT CONTROL MEASURES ARE EFFECTIVE IN PREVENTING DISCHARGE OF SEDIMENT FROM THE SITE OR IMPACTS TO RECEIVING WATERS. THE PERMITTEE AND CO-PERMITTEE(S) MUST ENSURE THAT VISUAL SITE INSPECTIONS ARE CONDUCTED WEEKLY, AND WITHIN 24 HOURS AFTER EACH MEASURABLE RAINFALL EVENT THROUGHOUT THE DURATION OF CONSTRUCTION AND UNTIL THE RECEIPT AND ACKNOWLEDGEMENT OF THE NOT BY THE DEPARTMENT OR AUTHORIZED CONSERVATION DISTRICT. THE VISUAL SITE INSPECTIONS TRAINED AND EXPERIENCED IN EROSION AND SEDIMENT CONTROL, TO ASCERTAIN THAT E&S BMPS AND PCSM BMPS ARE PROPERLY CONSTRUCTED AND MAINTAINED TO EFFECTIVELY MINIMIZE POLLUTION TO THE WATERS OF THIS COMMONWEALTH. A WRITTEN REPORT OF EACH INSPECTION SHALL BE KEPT AND INCLUDE AT A MINIMUM: WHERE E&S, PCSM OR PPC BMPs ARE FOUND TO BE INOPERATIVE OR INEFFECTIVE DURING AN INSPECTION, OR ANY OTHER TIME, THE PERMITTEE AND CO_PERMITTEE(S) SHALL, WITHIN 24 HOURS, CONTACT THE DEPARTMENT OR AUTHORIZED CONSERVATION INITIAL CONTACT. NONCOMPLIANCE REPORTS SHALL INCLUDE THE FOLLOWING INFORMATION:

INCIDENTS WHICH CAUSE OR THREATEN POLLUTION; E PERIOD OF NONCOMPLIANCE, INCLUDING EXACT DATES AND TIMES AND/OR ANTICIPATED TIME WHEN THE ACTIVITY WILL RETURN TO COMPLIANCE: STEPS BEING TAKEN TO REDUCE. ELIMINATE, AND PREVENT RECURRENCE OF THE NONCOMPLIANCE AND

THE DATE OR SCHEDULE OF DATES, AND IDENTIFYING REMEDIES FOR CORRECTING NONCOMPLIANCE CONDITIONS.

IPON REDUCTION, LOSS, OR FAILURE OF THE BMPs, THE PERMITTEE AND CO_PERMITTEE SHALL TAKE IMMEDIATE ACTION TO RESTORE THE BMPs OR PROVIDE AN ALTERNATIVE METHOD OF TREATMENT. SUCH RESTORED BMPs OR ALTERNATIVE TREATMENT SHALL BE AT LEAST AS EFFECTIVE AS THE ORIGINAL BMPs. FRMINATION OF COVERAG

UPON PERMANENT STABILIZATION OF EARTH DISTURBANCE ACTIVITIES ASSOCIATED WITH CONSTRUCTION ACTIVITY THAT ARE AUTHORIZED BY THIS PERMIT AND WHEN BMPS IDENTIFIED IN THE PCSM PLAN HAVE BEEN PROPERLY INSTALLED, THE PERMITTEE AND/OR CO_PERMITTEE OF THE FACILITY MUST SUBMIT A NOT FORM THAT IS SIGNED IN ACCORDANCE WITH PART B, SECTION 1.C. SIGNATORY REQUIREMENTS OF THIS PERMIT. ALL LETTERS CERTIFYING DISCHARGE TERMINATION ARE TO BE SENT TO THE DEPARTMENT OR AUTHORIZED CONSERVATION DISTRICT. THE NOT MUST CONTAIN THE FOLLOWING INFORMATION: FACILITY NAME, ADDRESS, AND LOCATION, OPERATOR NAME AND ADDRESS, PERMIT NUMBER, IDENTIFICATION AND PROOF OF ACKNOWLEDGMENT FROM THE PERSON(S) WHO WILL BE RESPONSIBLE FOR OPERATION AND MAINTENANCE OF THE PCSM BMPs IN ACCORDANCE WITH THE APPROVED PCSM PLAN, AND THE REASON FOR PERMIT TERMINATION. UNTIL THE PERMITTEE HAS RECEIVED WRITTEN ACKNOWLEDGEMENT OF THE NOT, THE PERMITTEE WILL REMAIN RESPONSIBLE FOR OPERATING AND MAINTAINING ALL E&S BMPS AND PCSM BMPS ON THE PROJECT SITE AND WILL BE RESPONSIBLE FOR VIOLATIONS OCCURRING ON THE PROJECT SITE. COMPLETION CERTIFICATE AND FINAL PLANS WITHIN 30 DAYS AFTER THE COMPLETION OF EARTH DISTURBANCE ACTIVITIES AUTHORIZED BY THIS PERMIT, INCLUDING THE PERMANENT STABILIZATION OF THE SITE AND PROPER INSTALLATION OF PCSM BMPs IN ACCORDANCE WITH THE APPROVED PCSM PLAN OR LIPON SUBMISSION OF THE NOT IF SOONER THE PERMITTEE SHALL FILE WITH THE DEPARTMENT OR ALTHORIZED CONSERVATION DISTRICT A STATEMENT SIGNED BY A LICENSED PROFESSIONAL AND BY THE PERMITTEE CERTIFYING THAT WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THIS PERMIT AND THE APPROVED E&S AND PCSM

CHESTER COUNTY SOIL CONSERVATION DISTRICT

E&S NOTES THIS PLAN REPRESENTS THE MINIMUM LEVEL OF IMPLEMENTATION OF TEMPORARY EROSION AND SEDIMENTATION CONTROL

STRUCTURES. ADDITIONAL FACILITIES OF MEASURES SHALL BE INSTALLED WHERE NECESSARY OR WHERE DIRECTED BY EITHER THE TOWNSHIP OR THE CHESTER COUNTY CONSERVATION AS CONSTRUCTION PROGRESSES.

- . THE EQUITABLE OWNER/CONSTRUCTION MANAGER IS RESPONSIBLE FOR ALL TEMPORARY AND PERMANENT EROSION AND EDIMENT CONTROLS AND SITE STABILIZATION. THE EQUITABLE OWNER/CONSTRUCTION MANAGER SHALL ASSIGN ONE INDIVIDUAL TO BE RESPONSIBLE FOR PROPER INSTALLATION AND MAINTENANCE OF ALL FACILITIES AND MEASURES. THE PERMITTEE AND/OR THE CONTRACTOR SHALL NOTIFY THE CHESTER COUNTY CONSERVATION DISTRICT THREE (3) DAYS PRIOR TO THE START OF EARTHMOVING ACTIVITY AND WHEN EARTHMOVING ACTIVITIES CEASE.
- 4. AFTER EACH RAIN STORM EVENT, ALL TEMPORARY SEDIMENTATION CONTROL FACILITIES SHALL BE INSPECTED, CLEANED AND
- SHOULD LINEORESEEN EROSIVE CONDITIONS DEVELOP DURING CONSTRUCTION THE CONTRACTOR SHALL TAKE ACTION TO REMEDY SUCH CONDITIONS AND TO PREVENT DAMAGE TO ADJACENT PROPERTIES AS A RESULT OF INCREASED RUNOFF AND/OR
- SEDIMENT DISPLACEMENT. STOCKPILES OF WOOD CHIPS, HAY BALES, CRUSHED STONE AND OTHER MULCHES SHALL BE HELD IN READINESS TO DEAL IMMEDIATELY WITH EMERGENCY PROBLEMS OF EROSION.
- 6. THE CONTRACTOR IS ADVISED TO BECOME THOROUGHLY FAMILIAR WITH THE PROVISIONS OF APPENDIX 64. EROSION AND CONTROL RULES AND REGULATIONS, TITLE 25, PART 1, DEPARTMENT OF ENVIRONMENTAL RESOURCES, SUB-PART C, PROTECTION OF NATURAL RESOURCES. ARTICLE III. WATER RESOURCES. CHAPTER 102, EROSION CONTROL 7. PROTECTION TO THE EXISTING TREES AND SHRUBS SHALL BE TAKEN BY THE CONTRACTOR TO ELIMINATE UNNECESSARY DAMAGE. 8 THE CONTRACTOR SHALL DELINEATE IN THE FIELD AREAS OF DISTURBANCE AS SHOWN ON THE PLANS 9. DUMP SITES WHERE EXCESS EXCAVATED MATERIAL IS TO BE HAULED MUST BE COVERED UNDER CCCD APPROVED SEDIMENT AND EROSION CONTROL PLANS (FOR THAT SPECIFIC ACTIVITY) PRIOR TO ANY DUMPING/EARTH DISTURBANCE ON SAID SITE.

SEEDING SPECIFICATIONS

- 1. SEEDING DATES
- A. SEEDING SHALL OCCUR BETWEEN MARCH 1ST AND MAY 15TH OR BETWEEN AUGUST 15TH AND NO LATER THAN OCTOBER B. IF SEEDING CANNOT BE CONDUCTED DURING THE TIMEFRAMES NOTED ABOVE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE LOCAL CONSERVATION DISTRICT AND ALL APPROPRIATE AGENCIES TO DETERMINE AN ACCEPTABLE MEANS IN WHICH TO STABILIZE THE SITE THROUGH THE NEXT GROWING SEASON. SEED MIXTURES: SEED MIXTURE TO BE USED ON THIS SITE SHALL CONSIST OF THE FOLLOWING UNLESS OTHERWISE NOTED ON THE PLANS. RATES ARE IN THE FORM OF POUNDS PER ACRE (LB/A) PER PURE LIVE SEED (POUNDS / ACRE PLS). CONTRACTOR WILL NEED TO ADJUST ACCORDINGLY BASED ON THE SEED GERMINATION AND PURITY RATING (SEE ITEM #3 BELOW). A. TEMPORARY SEED MIXTURES: DISTURBED AREAS WHICH ARE NOT AT FINISHED GRADE AND WHICH WILL BE DISTURBED AGAIN
- WITHIN TWELVE (12) MONTHS MUST BE SEEDED WITH A TEMPORARY SEED MIXTURE AS FOLLOWS: ANNUAL RYE (40 POUNDS / ACRE PLS) OR SPRING OATS (96 POUNDS / ACRE PLS
- OR WINTER RYE (168 POUNDS / ACRE PLS) (REFERENCE: PENN STATE "EROSION CONTROL & CONSERVATION PLANTINGS ON NONCROPLAND", TABLE 5) B. PERMANENT SEEDING SHALL CONSIST OF A NURSE CROP PLUS A PERMANENT SEED MIXTURE, AS FOLLOWS: . NURSE CROP (SELECT ONE): ANNUAL RYE (10 POUNDS / ACRE PLS
- OR SPRING OATS (64 POUNDS / ACRE PLS) OR WINTER RYE (56 POUNDS / ACRE PLS (REFERENCE: PA DEP EROSION AND SEDIMENT CONTROL PROGRAM MANUAL, LATEST EDITION, TABLE 11.4, SEED MIX #1) II PERMANENT SEED MIX. TALL FESCUES (60 POUNDS / ACRE PLS)
- OR FINE FESCUE (35 POUNDS / ACRE PLS) OR KENTUCKY BLUEGRASS (25 POUNDS / ACRE PLS) PLUS REDTOP (3 POUNDS / ACRE PLS)
- OR PERENNIAL RYEGRASS (15 POUNDS / ACRE PLS) (REFERENCE: PA DEP EROSION AND SEDIMENT CONTROL PROGRAM MANUAL, LATEST EDITION, TABLE 11.4, SEED MIX #2) 3. PURE LIVE SEED: MINIMUM PLS RATING ACCEPTED SHALL BE 85% PLS. SEED RATE MAY NEED TO BE ADJUSTED BASED ON THE PLS RATING OF THE SEED.
- A. SEED USED FOR THE PURPOSE OF PERMANENT STABILIZATION SHALL BE LABELED WITH GERMINATION AND PURITY PERCENTAGES. UNLABELED SEED WILL BE REJECTED. SEED SHALL NOT BE USED MORE THAN ONE (1) YEAR BEYOND THE LABEL DATE. B. DETERMINING THE PERCENT PURE LIVE SEED (PERCENT PLS) OF A LABELED SEED: MULTIPLY BY THE PERCENTAGE OF PURE
- SEED BY THE PERCENTAGE OF GERMINATION AND DIVIDE THE RESULT BY 100 ((%PURE X %GERMINATION) / 100) 2. DETERMINING THE ACTUAL SEED RATE: SIMPLY DIVIDE THE PERCENT PLS RATING OF THE SEED INTO THE PLS REQUIRED, AS
- NOTED ABOVE. THE RESULT IS THE POUNDS OF SEED REQUIRED. FOR EXAMPLE: IF THE REQUIRED RATE IS 64 POUNDS PLS, AND THE SEED IS RATED AT 35% PLS, DIVIDE 64 BY 0.35 TO GET 182.9 POUNDS, WHICH IS THE AMOUNT OF THAT SEED REQUIRED PER ACRE.
- APPLICATION OF SEED: SEEDING SHALL BE APPLIED AND ESTABLISHED IN ACCORDANCE WITH THE "EROSION AND SEDIMENT POLLUTION CONTROL PROGRAM MANUAL" AS PUBLISHED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WATER QUALITY PROTECTION (MOST RECENT EDITION). A. SEEDING SHALL TAKE PLACE BETWEEN MARCH 15 - OCTOBER 15
- . SEED SHALL BE APPLIED IN A NON-COMPACTED, ROUGHENED TOPSOIL. SEED MAY BE APPLIED THROUGH ANY OF THE FOLLOWING MEANS AND METHODS, OR OTHER ACCEPTED INDUSTRY PRACTICES, UNLESS SPECIFICALLY NOTED OTHERWISE ON THESE PLANS: I DRILL SEEDING
- II. BROADCAST SEEDING (TWO DIRECTIONS) III. HYDROSEEDING (TWO DIRECTIONS)
- D. ALL SEED SHALL BE TEMPORARILY OR PERMANENTLY STABILIZED UNTIL A 70% PERENNIAL COVER IS ACHIEVED: I. TEMPORARY STABILIZATION WITH STRAW 1. STRAW MULCH SHALL BE APPLIED ON TOP OF THE FRESHLY SEEDED AREAS AT A RATE OF 3 TONS PER ACRE (4 TONS PER ACRE BETWEEN NOVEMBER 1ST AND MARCH 1ST). 2. STRAW SHALL BE STABILIZED WITH A WOOD OR PAPER FIBER MULCH AND TACKIFIER SOLUTION IN ACCORDANCE WITH THE PRODUCT MANUFACTURER'S SPECIFICATIONS. II. TEMPORARY/PERMANENT STABILIZATION WITH EROSION CONTROL MATTING/BLANKETS (WHERE SPECIFIED):
- 1. MATTING/BLANKETS SHALL BE INSTALLED IN AREAS AS NOTED ON THE EROSION & SEDIMENT CONTROL PLAN OR WITHIN 50 FEET OF PONDS, STREAMS OR WETLANDS. THE PRODUCT SHALL BE INSTALLED AND STAPLED ON TOP OF THE SEEDING IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS. 2. AREAS WITH MATTING/BLANKETS SHALL NOT BE TRACKED (CATWALKED) AFTER INSTALLATION.
- 3. MATTING/BLANKETS SHALL BE VISUALLY INSPECTED DAILY TO ENSURE THAT THE PRODUCT IS FUNCTIONING PROPERLY, IS HELD FAST TO THE SOIL SURFACE AND IS IN GOOD CONDITION.
- . ONCE SEED HAS BEEN SET, VEHICULAR TRAFFIC OR OTHER SOURCES OF COMPACTION SHALL BE AVOIDED IRRIGATION: NEW SEED APPLICATIONS SHOULD BE SUPPLIED WITH ADEQUATE WATER, A MINIMUM OF 1/2" TWICE A DAY, UNTIL VEGETATION IS WELL ESTABLISHED (A MINIMUM OF 75% COVER)

- B.4. FOLLOW-UP INSPECTION: AFTER THE FIRST GROWING SEASON, THE SOD SHOULD BE INSPECTED TO DETERMINE IF ADDITIONAL

V. STANDARD FOR PERMANENT STABILIZATION

C. WATER WHICH ACCUMULATES IN THE OPEN TRENCH WILL BE COMPLETELY REMOVED BY PUMPING TO A FACILITY FOR REMOVAL OF SEDIMENT D. ON THE DAY FOLLOWING PIPE PLACEMENT AND TRENCH BACKFILLING, THE DISTURBED AREA WILL BE GRADED TO FINAL CONTOURS AND

(Rev. 9/2024)

I. GENERAL INFORMATION

REMOVED FROM SITE.

II. STANDARD FOR LAND GRADING

INSTALLATION REQUIREMENTS

EXCESS SATURATION.

COMPLETED IN ONE DAY

INSTALLED PIPE

A 1 SITE PREPARATION

A.2. APPLYING TOPSOIL

A.3.c. SOIL MODIFICATIONS

ABOVE

GROWTH

HOURS

SOD PLACEMENT

SOIL NAME

CLARKSBURG

CONESTOGA

SOIL TEST

SEEDBED PREPARATION

III. STANDARD FOR UTILITY TRENCH EXCAVATION

MATERIALS

B.5. (SEE I. D.)

B.2

(Rev. 5/2024)

GENERAL CONSERVATION NOTES AND SPECIFICATIONS

NO SEDIMENT OR SEDIMENT LADEN WATER MUST BE ALLOWED TO LEAVE THE SITE WITHOUT FIRST BEING PROPERLY FILTERED.

DISTURBED AREAS ON WHICH FARTHMOVING ACTIVITIES HAVE CEASED AND WHICH WILL REMAIN EXPOSED SHALL BE STABILIZED IMMEDIATELY

EITHER TEMPORARILY OR PERMANENTLY, INCLUDING THE RESTORATION OF DRIVEWAYS, STOCKPILES, OFF-SITE UNDERGROUND UTILITY LINES

AND GRADED PERIMETER AREAS. DURING NON-GERMINATION PERIODS, MULCH MUST BE APPLIED AT RECOMMENDED RATES. CRUSHED STONE

WHERE DISTURBED AREAS ARE DIFFICULT TO STABILIZE, NETTING SHOULD BE USED TO HOLD SEED AND MULCH IN PLACE; THIS IS ESPECIALLY

LINTIL THE SITE IS STABILIZED ALL EROSION AND SEDIMENTATION MUST BE MAINTAINED PROPERLY. MAINTENANCE MUST INCLUDE INSPECTIONS

OF ALL EROSION AND SEDIMENT CONTROL AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL

MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, RE-GRADING, RE-SEEDING, RE-MULCHING, AND RE-NETTING, MUST BE

PERFORMED IMMEDIATELY. IF AT ANY TIME PRIOR TO SITE STABILIZATION ANY E&SP PROBLEMS OCCUR WHICH REQUIRE ADDITIONAL CONTROLS,

THE CONTRACTOR MUST DEVELOP AND COORDINATE WITH OWNER AND HAVE APPROVED BY THE COUNTY CONSERVATION DISTRICT. A SEPARATE

EROSION AND SEDIMENT POLLUTION CONTROL PLAN FOR EACH SPOIL, BORROW OR OTHER WORK AREA NOT DETAILED ON THE PERMITTED

CONTRACTOR SHALL NOTIFY THE COUNTY CONSERVATION DISTRICT OF DISPOSAL METHOD AND LOCATION OF MATERIALS (IF ANY) TO BE

ALL MATERIALS TO BE RECYCLED OR DISPOSED OF MUST DO SO IN ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL REGULATIONS.

THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN SOIL STABILIZATION THROUGHOUT CONSTRUCTION. ADDITIONAL MEASURES REQUIRED TO

ENSURE ON-SITE AND OFF-SITE STABILIZATION IN AND ADJACENT TO CONSTRUCTION ACTIVITIES SHALL BE THE SOLE RESPONSIBILITY OF THE

CONTRACTOR AND SHALL BE AT NO COST TO THE OWNER. IMMEDIATE NOTIFICATION SHALL BE GIVEN TO THE OWNER AND ENGINEER SHOULD

PROVISIONS SHALL BE MADE TO SAFELY CONDUCT SURFACE WATER TO STORM DRAINS OR SUITABLE WATER COURSES AND TO PREVENT

TIMBER, LOGS, BRUSH, RUBBISH, ROCKS, STUMPS AND VEGETABLE MATTER WHICH WILL INTERFERE WITH THE GRADING OPERATION OR

AFFECT THE PLANNED STABILITY OR FILL AREAS SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH STANDARD FOR DISPOSAL OF

FILL MATERIAL IS TO BE FREE OF BRUSH, RUBBISH, TIMBER, LOGS, VEGETATIVE MATTER AND STUMPS IN AMOUNTS THAT WILL BE

B.3. ALL FILLS SHALL BE COMPACTED SUFFICIENTLY FOR THEIR INTENDED PURPOSE AND AS REQUIRED TO REDUCE SLIPPING, EROSION OR

A. LIMIT ADVANCE CLEARING AND GRUBBING OPERATIONS TO A DISTANCE EQUAL TO TWO TIMES THE LENGTH OF PIPE INSTALLATION THAT CAN BE

LIMIT DAILY TRENCH EXCAVATION TO THE LENGTH OF PIPE PLACEMENT, PLUG INSTALLATION AND BACKFILLING THAT CAN BE COMPLETED THE

SAME DAY. DAILY BACKFILLING OF THE TRENCH MAY BE DELAYED FOR A MAX OF SIX DAYS FOR CERTAIN CASES REQUIRING TESTING OF THE

APPROPRIATE TEMPORARY EROSION AND SEDIMENT POLLUTION CONTROL MEASURES / FACILITIES WILL BE INSTALLED. SEEDING AND MULCHING

WORK CREWS AND EQUIPMENT FOR TRENCHING, PLACEMENT OF PIPE, PLUG CONSTRUCTION AND BACKFILLING WILL BE SELF CONTAINED AND

MULCHING IS MOST APPLICABLE TO THOSE AREAS SUBJECT TO PERIODIC DISTURBANCE AND REWORKING IN ADDITION, STABILIZATION WITH

SPREAD UNIFORMLY AND ANCHORED WITH LIQUID MULCH BINDER. BINDER PRODUCTS SHALL BE INSTALLED IN ACCORDANCE WITH THE

BINDERS: APPLY IMMEDIATELY AFTER PLACEMENT OF HAY OR STRAW MULCH TO MINIMIZE LOSS BY WIND OR WATER. PRODUCTS TO BE

DISTURBED AREAS WHICH ARE NOT AT FINISHED GRADE AND WHICH WILL BE REDISTURBED WITHIN TWELVE (12) MONTHS MUST BE SEEDED

A.4.a. UNROTTED SMALL-GRAIN UN-CHOPPED STRAW OR HAY AT 3.0 TONS PER ACRE (4 TONS PER ACRE BETWEEN NOVEMBER 1 AND MARCH 1)

A.4.b. HYDROMULCHER. USE IS LIMITED TO FLATTER SLOPES AND DURING OPTIMUM SEEDING PERIODS IN SPRING AND FALL. LIQUID MULCH

A.1.a. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION. SEEDING. MULCH

A.1.b. SUBSOIL SHOULD BE TESTED FOR LIME REQUIREMENT AND LIMESTONE, IF NEEDED, SHOULD BE APPLIED TO BRING SOIL PH TO BETWEEN 5.5

A.1.c. IMMEDIATELY PRIOR TO TOPSOIL DISTRIBUTION, THE SURFACE SHOULD BE SCARIFIED OR OTHERWISE LOOSENED TO A DEPTH OF 3-5 INCHES

A.2.b. REMOVAL OF TOPSOIL IS NOT ALLOWED UNLESS APPROVED BY THE MUNICIPALITY OR UNLESS AS SPECIFIED BY THE SITE GEOTECHNICAL

A.3.c.1. APPLY 10-20-20 RATED FERTILIZER AT A RATE OF 1000 POUNDS PER ACRE OR 25 POUNDS PER 1000 SQUARE FEET, OR AS DIRECTED BY

A.3.c.2. APPLY AGRICULTURAL LIME AT A RATE OF 6 TONS PER ACRE OR 240 POUNDS PER 1000 SQUARE FEET. OR AS DIRECTED BY SOIL TEST.

A.3.d. WORK LIME AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES CONTINUE TILLAGE UNTIL A REASONABLY

A.3.e. REMOVE FROM THE SURFACE ALL STONES ONE INCH (1") OR LARGER IN ANY DIMENSION, REMOVE ALL OTHER DEBRIS, SUCH AS WIRE, CABLE,

A.3.f. INSPECT SEEDBED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE RE-TILLED AND FIRMED AS

A.5. SEED BED AREAS SHALL ALSO BE STABILIZED USING AN APPROVED METHOD (EG: HYDROMULCHING) AS OUTLINED IN ITEM IV.A. HEREIN

B 1.a. CUI TIVATED SOD IS PREFERRED OVER NATIVE OR PASTURE SOD. SPECIFY "CERTIFIED SOD," OR OTHER HIGH QUALITY CULTIVATED SOD.

GRASP FROM THE UPPER 0% OF THE STRIP. BROKEN PADS OR TORN AND UNEVEN ENDS WILL NOT BE ACCEPTABLE

B.1.c. SOD SHOULD BE OF UNIFORM THICKNESS, APPROXIMATELY 5/8 INCH, PLUS OR MINUS 1/4 INCH, AT TIME OF CUTTING. (EXCLUDES TOP

B.1.d. SOD SHOULD BE VIGOROUS AND DENSE AND BE ABLE TO RETAIN ITS OWN SHAPE AND WEIGHT WHEN SUSPENDED VERTICALLY WITH A FIRM

B.1.f. ONLY MOIST, FRESH UNHEATED SOD SHOULD BE USED. SOD SHOULD BE HARVESTED, DELIVERED AND INSTALLED WITHIN A PERIOD OF 36

B.3.a. SOD STRIPS SHOULD BE LAID ON THE CONTOUR, NEVER UP AND DOWN THE SLOPE. STARTING AT THE BOTTOM OF THE SLOPF AND WORKING

B.3.c. ROLL OR TAMP SOD IMMEDIATELY FOLLOWING PLACEMENT TO INSURE SOLID CONTACT OF ROOT MAT AND SOIL SURFACE. DO NOT OVERLAP

B.3.e. SURFACE WATER CANNOT ALWAYS BE DIVERTED FROM FLOWING OVER THE FACE OF THE SLOPE, BUT A CAPPING STRIP OF HEAVY JUTE OR

B.3.f. IMMEDIATELY FOLLOWING INSTALLATION, SOD SHOULD BE WATERED UNTIL MOISTURE PENETRATES THE SOIL LAYER BENEATH SOD TO A

LIMITATIONS FOR PENNSYLVANIA SOILS PERTAINING TO

EARTH DISTURBANCE PROJECTS

X X

X X X X X X X

X X X

X X

PLASTIC NETTING, PROPERLY SECURED, ALONG THE CROWN OF THE SLOPE AND EDGES WILL PROVIDE EXTRA PROTECTION AGAINST LIFTING

AND UNDERCUTTING OF SOD. THE SAME TECHNIQUE CAN BE USED TO ANCHOR SOD IN WATER-CARRYING CHANNELS AND OTHER CRITICAL

SOD. ALL JOINTS SHOULD BE BUTTED TIGHTLY IN ORDER TO PREVENT VOIDS, WHICH WOULD CAUSE DRYING OF THE ROOTS.

B.3.d. ON SLOPES GREATER THAN 3 TO 1. SECURE SOD TO SURFACE SOIL WITH WOOD PEGS. WIRE STAPLES OR A BIODEGRADABLE FASTENER.

UP. ON STEEP SLOPES, THE USE OF LADDERS WILL FACILITATE THE WORK AND PREVENT DAMAGE TO THE SOD. DURING PERIODS OF HIGH

SITE PREPARATIONS: SEE SPECIFICATION FOR SEEDING & SOIL TREATMENT FOR PERMANENT VEGETATIVE COVER (ITEM V.A. ABOVE)

ALL DISTURBED AREAS SHALL BE LEFT WITH A NEAT AND FINISHED APPEARANCE AND SHALL BE PROTECTED FROM EROSION.

STOCKPILES TO BE HAULED OFF SITE MUST HAVE AN APPROVED FROSION AND SEDIMENT CONTROL PLAN AT THE DESTINATION LOCATION

ADDITION STABILIZATION MEASURES BE NECESSARY; IN ACCORDANCE WITH THE NPDES AND/OR SWPPP REQUIREMENTS FOR THE PROJECT.

A. DEFINITION: RESHAPING THE GROUND SURFACE BY GRADING TO PLAN GRADES, WHICH ARE DETERMINED BY TOPOGRAPHIC SURVEY AND LAYOUT.

ANY SEDIMENT THAT IS TRACKED ONTO THE ROAD MUST BE CLEANED OFF BEFORE THE END OF THE DAY.

IMPORTANT AROUND WATERCOURSES, IN SWALES AND AREAS OF CONCENTRATED FLOWS, STEEP SLOPES,

THIS EROSION AND SEDIMENT CONTROL PLAN SHALL BE AVAILABLE AT THE SITE.

PLANS, WHETHER LOCATED WITHIN OR OUTSIDE OF THE LIMITS OF CONSTRUCTION.

SURFACE RUNOFF FROM DAMAGING CUT FACES AND FULL SLOPES

DETRIMENTAL TO CONSTRUCTING STABLE FILLS.

OF ALL DISTURBED AREAS WILL BE DONE IMMEDIATELY.

PROTECTIVE MATERIALS TO BE USED.

PRODUCT MANUFACTURER'S SPECIFICATIONS

STANDARD FOR TEMPORARY STABILIZATION WITH SEED

SEEDBED PREPARATION FOR TEMPORARY SEEDING

APPLICATION AND ANCHORING, AND MAINTENANCE.

ENGINEER DUE TO THE SOIL'S UNSUITABILITY FOR PLACEMENT.

A.3.b. PERFORM ALL CULTURAL OPERATIONS AT RIGHT ANGLES TO SLOPE.

TO PROVIDE A GOOD BOND WITH THE TOPSOIL

UNIFORM FINE SEEDBED IS PREPARED.

SEEDING: SEE SEEDING SPECIFICATIONS

B. STANDARD FOR PERMANENT STABILIZATION WITH SOD

FERTILIZATION OR LIMING IS NEEDED.

X C/S

X C/S

METHODS AND MATERIALS

B.3.B. APPLY AGRICULTURAL LIME AT A RATE OF 1 TONE PER ACRE

3.3.C. APPLY 10-10-10 FERTILIZER A RATE OF 500 POUNDS PER ACRE

AND MULCHED IMMEDIATELY WITH A TEMPORARY COVER

B.3.A. PERFORM ALL CULTURAL OPERATIONS AT RIGHT ANGLES TO SLOPE.

A. SPECIFICATION FOR SEEDING & SOIL TREATMENT FOR PERMANENT VEGETATIVE COVER

ADJOINING PROPERTY SHALL BE PROTECTED FROM EXCAVATION AND FILLING OPERATIONS

(SEDIMENT FILTER BAG, SEE DETAIL) BEFORE PIPE PLACEMENT AND/OR BACKFILLING BEGINS.

FIBER MULCH SHALL BE USED DURING NON-GERMINATION PERIODS.

GRADE AS NEED AND FEASIBLE. SEE STANDARD FOR LAND GRADING.

PERFORM ALL CULTURAL OPERATIONS AT RIGHT ANGLES TO THE SLOPE.

SEPARATE FORM CLEARING AND GRUBBING AND SITE RESTORATION AND STABILIZATION OPERATIONS.

INSTALLED AT A RATE OF 1 TON PER ACRE (MINIMUM) OR PER MANUFACTURER'S SPECIFICATIONS

ALL AREAS TO BE PERMANENTLY SEEDED SHALL ALSO RECEIVE TEMPORARY SEEDING CONCURRENTLY

B.3.D. WORK LIME AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF FOUR (4) INCHES.

AND 7 AND INCORPORATED INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES.

A.3.a. A SOIL TEST SHALL BE CONDUCTED TO ACCURATELY DETERMINE NECESSARY SOIL AMENDMENTS.

TREE ROOTS, PIECES OF CONCRETE, CLODS, LUMPS OR OTHER UNSUITABLE MATERIAL

B 1 e A SOD OF KENTUCKY 31 TALL FESCUE WITH BLUEGRASS, OR A FESCUE BLEND IS PREFERRED

TEMPERATURE, LIGHTLY IRRIGATE THE SOIL IMMEDIATELY PRIOR TO LAYING THE SOD.

AREAS. WIRE STAPLES MUST BE USED TO ANCHOR NETTING IN CHANNEL WORK.

DEPTH OF 4 INCHES. MAINTAIN OPTIMUM MOISTURE FOR AT LEAST TWO WEEKS.

B.3.b. PLACE SOD STRIPS WITH SNUG EVEN JOINTS THAT ARE STAGGERED. OPEN SPACES INVITE EROSION.

X

B.1.b. SOD SHOULD BE FREE OF WEEDS AND UNDESIRABLE COARSE WEEDY GRASSES.

A.2.a. TOPSOIL SHOULD BE HANDLED ONLY WHEN IT IS DRY ENOUGH TO WORK WITHOUT DAMAGING SOIL STRUCTURE.

ON PAVEMENT SUBGRADES IS CONSIDERED ADEQUATE PROTECTION.

AREAS THAT FAIL TO GERMINATE MUST BE RE-SEEDED OR MULCHED

IMMEDIATE ACTION MUST BE TAKEN TO CORRECT THE PROBLEMS

F. ALL SOIL EXCAVATED FROM THE TRENCH WILL BE PLACED ON THE UPHILL SIDE OF THE TRENCH. IV. STANDARD FOR TEMPORARY STABILIZATION A. STANDARD FOR TEMPORARY STABILIZATION WITH FIBERMULCH

C. SEEDING: SEE SEEDING SPECIFICATIONS

OVERALL SITE CONSTRUCTION SEQUENCE

COUNTY CONSERVATION DISTRICT.

EDIMENT POLLUTION.

AND SPECIFICATIONS.

FACH FEATURE

THE NEIGHBORING PROPERTY

PHASE #1

PHASE #

ESTABLISHED

ON THE E&S PLANS

AND GAS) WHERE APPLICABLE.

MATERIAL OR WASTE AT THIS SITE.

REQUIRED AS PART OF THE NOT PACKAGE.

29. DEMOBILIZE

CLOGGING THE PROPOSED MRC COMPONENTS.

NGINEER, SHALL CONDUCT THE OVERSIGH

REQUIREMENTS DURING CONSTRUCTION.

A. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING SEQUENCE. EACH STAGE SHALL BE COMPLETED IN COMPLIANCE WITH CHAPTER 102 REGULATIONS BEFORE ANY FOLLOWING STAGE IS INITIATED. CLEARING AND GRUBBING SHALL BE LIMITED ONLY TO THOSE AREAS DESCRIBED IN EACH STAGE. UPON COMPLETION OR TEMPORARY CESSATION OF THE EARTH DISTURBANCE ACTIVITY THAT WILL EXCEED FOUR (4) DAYS. OR ANY STAGE THEREOF. THE PROJECT SITE SHALL BE IMMEDIATELY STABILIZED WITH THE APPROPRIATE TEMPORARY OR PERMANENT STABILIZATION. B. REFERENCES TO 'CONSERVATION DISTRICT' USED THROUGHOUT THIS SEQUENCE ARE MEANT TO REFER TO THE CHESTER

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C. AT LEAST SEVEN (7) DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, THE OPERATOR SHALL INVITE ALL CONTRACTORS INVOLVED IN THOSE ACTIVITIES INCLUDING. BUT NOT LIMITED TO: THE LANDOWNER. ALL APPROPRIATE MUNICIPAL OFFICIALS AND A REPRESENTATIVE OF THE CONSERVATION DISTRICT FOR AN ON-SITE PRE-CONSTRUCTION MEETING. ALSO, AT LEAST THREE (3) DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES. ALL CONTRACTORS INVOLVED IN THOSE ACTIVITIES SHALL NOTIFY THE PENNSYLVANIA ONE CALL SYSTEM INC. AT 1-800-242-1776 FOR BURIED UTILITIES LOCATION.

D. BEFORE INITIATING ANY REVISION TO THE APPROVED EROSION AND SEDIMENT CONTROL PLAN OR REVISIONS TO OTHER PLANS WHICH MAY AFFECT THE EFFECTIVENESS OF THE APPROVED E&S CONTROL PLAN, THE OPERATOR MUST RECEIVE APPROVAL OF THE REVISIONS FROM THE CONSERVATION DISTRICT. THE OPERATOR SHALL ASSURE THAT THE APPROVED EROSION AND SEDIMENT CONTROL PLAN IS PROPERLY AND COMPLETELY IMPLEMENTED IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION. THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO ELIMINATE POTENTIAL FOR ACCELERATED EROSION AND/OR

E THE TERM 'PERMANENT STABILIZATION' USED THROUGHOUT THIS SEQUENCE IS MEANT TO DESCRIBE THE PROPER PLACING. GRADING, CONSTRUCTING, REINFORCING, LINING, AND COVERING OF SOIL, ROCK OR EARTH TO ENSURE THEIR PERMANENT RESISTANCE TO EROSION, SLIDING OR OTHER MOVEMENT. FOR AN EARTH DISTURBANCE TO BE PERMANENTLY STABILIZED, THE TURBED AREA SHALL BE COVERED WITH ONE OF THE FOLLOWING: A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVEF WITH A DENSITY CAPABLE OF RESISTING ACCELERATED EROSION AND SEDIMENTATION; OR AN ACCEPTABLE BMP THAT PERMANENTLY MINIMIZES ACCELERATED EROSION AND SEDIMENTATION.

F. FOR EACH OF THE 'CRITICAL STAGES' SPECIFIED BELOW, THE PERMITTEE SHALL PROVIDE ENGINEERING OVERSIGHT. A LICENSED PROFESSIONAL OR DESIGNEE KNOWLEDGEABLE IN THE DESIGN AND CONSTRUCTION OF SAID BMP, PREFERABLY THE DESIGN

G. SEDIMENT CONTROL FACILITIES, SUCH AS BASINS AND TRAPS, MUST BE PROTECTED FROM UNAUTHORIZED ACTS OF THIRD PARTIES. REFER ALSO TO THE MONITORING, INSPECTION AND REPORTING REQUIREMENTS PROVIDED HEREIN FOR ADDITIONAL

A AS SOON AS SLOPES CHANNELS DITCHES AND OTHER DISTURBED AREAS REACH FINAL GRADE THEY MUST BE STABILIZED WHEN FINAL GRADE IS ACHIEVED DURING NON-GERMINATING MONTHS. THE AREA SHOULD BE MULCHED UNTIL THE BEGINNING OF THE NEXT PLANTING SEASON. AS DISTURBED AREAS WITHIN A PROJECT APPROACH FINAL GRADE, PREPARATIONS SHOULD BE MADE FOR SEEDING AND MULCHING TO BEGIN (I.E. ANTICIPATE THE COMPLETION DATE AND SCHEDULE THE SEEDER). IN NO CASE SHOULD AN AREA EXCEEDING 15,000 SQUARE FEET, WHICH IS TO BE STABILIZED BY VEGETATION, REACH FINAL GRADE WITHOUT BEING SEEDED AND MULCHED. WAITING UNTIL EARTHMOVING IS COMPLETED BEFORE MAKING PREPARATIONS FOR SEEDING AND MULCHING IS NOT ACCEPTABLE. SEEDING AND MULCHING REQUIREMENTS ARE SPECIFIED IN THE GENERAL CONSERVATION NOTES

1. PRIOR TO ANY EARTH DISTURBANCE, THE CONTRACTOR SHALL DEMARK THE LIMITS OF DISTURBANCE IN THE FIELD USING STAKES, STRINGLINE, OR ANOTHER SIMILAR METHOD.

FOR EACH OF THE FOLLOWING STEPS IN PHASE #1, LIMIT CLEARING AND GRUBBING TO ONLY WHAT IS NECESSARY TO INSTALL INSTALL THE STONE CONSTRUCTION ENTRANCE AS SHOWN ON THE PLANS. MAINTAIN ACCESS TO THE EXISTING DRIVEWAY TO

INSTALL LEVEL SPREADER LS300. UTILIZE AN INITIAL COMPOST FILTER SOCK (CFS #2) DOWNSTREAM OF THE AREA TO PROTECT

AGAINST SEDIMENT DURING CONSTRUCTION. INSTALL COMPOST SOCK SEDIMENT TRAP #3 AND UPSTREAM DIVERSIONS SOCKS.

CONSTRUCT THE TEMPORARY STONE ACCESS DRIVE TO SERVE THE NEIGHBORING PROPERTY DURING CONSTRUCTION. THE EXISTING ACCESS DRIVE MUST REMAIN ONLINE UNTIL COMPLETION. 7. PREPARE THE TEMPORARY SOIL STOCKPILE AND MATERIAL STAGING AREAS AS SHOWN ON THE PLANS. INSTALL COMPOST

SOCK SEDIMENT TRAP #4 DOWNSTREAM OF THE AREA. 8. INSTALL THE FUTURE OUTFALL LOCATION AT EXIN201 WITHIN LLOYD AVENUE UP TO THE UPSTREAM MANHOLE. UPON

COMPLETION, INSTALL COMPOST SOCK SEDIMENT TRAP #2. 9. INSTALL THE LEVEL SPREADERS AT DP#001. UTILIZE AN INITIAL COMPOST FILTER SOCK (CFS #1) DOWNSTREAM OF THE AREA TO PROTECT AGAINST SEDIMENT DURING CONSTRUCTION.

 INSTALL COMPOST SOCK SEDIMENT TRAP #1 AND UPSTREAM DIVERSION SOCKS 11. UPON INSTALLATION AND STABILIZATION OF THESE FEATURES LISTED ABOVE, PROCEED TO PHASE #2. CONSISTENTLY MONITOR EACH E&S FEATURE THROUGHOUT CONSTRUCTION FOR ADEQUATE OPERATION AND PERFORM MAINTENANCE AS REQUIRED AND/OR AS THE MAINTENANCE SCHEDULE DICTATES.

12. COMPLETE ANY TREE REMOVAL/ DEMOLITION ACTIVITIES AS SHOWN ON THE DEMOLITION PLANS.

13. INITIATE THE NECESSARY EARTHWORK TO REACH THE GRADE INDICATED ON THE PLANS. 14. BUILDING CONSTRUCTION MAY COMMENCE UPON ACCEPTANCE OF BUILDING PAD BY OWNER. THE CONCRETE WASHOUT MUST BE INSTALLED BEFORE ANY CONCRETE CAN BE POURED ON-SITE. CONTRACTOR MUST PERFORM BULK OF EARTHWORK TO BALANCE CUTS AND FILLS TO THE GREATEST EXTENT POSSIBLE. ALL AREAS DISTURBED DURING FARTHWORK PHASE OF CONSTRUCTION SHALL BE TEMPORARILY SEEDED AND STABILIZED IN ACCORDANCE WITH THE GENERAL CONSERVATION NOTES AND SPECIFICATIONS AND SEEDING SPECIFICATIONS IF PERMANENT STABILIZATION CANNOT BE ACHIEVED IMMEDIATELY. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE OFF OF THE BUILDING PAD TO THE PERIMETER CONTROLS PREVIOUSLY

15. CRITICAL STAGE: INITIATE THE INSTALLATION OF THE UNDERGROUND MRC BASINS UB#1 AND UB#2 (BMP#7 AND BMP#11). REFER TO THE DETAILED CONSTRUCTION SEQUENCE FOR THIS BMP ON THE PSCM DETAILS SHEET, MAINTENANCE AND INSPECTION NOTES ARE PROVIDED ON THE O&M SCHEDULE. THE PERMITTEE SHALL PROVIDE ENGINEERING OVERSIGHT FOR THE CONSTRUCTION OF THE SUBSURFACE BASIN. A LICENSED PROFESSIONAL OR DESIGNEE KNOWLEDGEABLE IN THE DESIGN AND CONSTRUCTION OF SUBSURFACE BASINS, PREFERABLY THE DESIGN ENGINEER, SHALL CONDUCT THE OVERSIGHT. NO CONSTRUCTION EQUIPMENT, SUCH AS CRANES DURING BUILDING CONSTRUCTION, SHALL BE PARKED ON TOP OF THE SUBSURFACE BASIN TO AVOID DAMAGING THE SUBSURFACE BASIN OR OVER-COMPACTING THE SUBSURFACE SOILS. 16 AS THE SITE IS BROUGHT TO FINISHED GRADE AND THE POST CONSTRUCTION DRAINAGE CONDITIONS ARE ACHIEVED. FACH PROPOSED RAINGARDEN SHALL BE INSTALLED IN A TEMPORARY SEDIMENT TRAP CONDITION AND TEMPORARILY STABILIZED TO PREVENT SEDIMENT FROM ENTERING THE STORMWATER CONVEYANCE SYSTEM, RUNNING OFF DOWNSTREAM, AND/ OR

17. INSTALL THE UPSTREAM INLETS AND PIPES TO THE UNDERGROUND BASINS AND EACH ABOVEGROUND MRC RAINGARDEN INLETS DISCHARGING TO THE BASIN SHALL BE BLOCKED IMMEDIATELY AND FLOW SHALL BE DIVERTED TO THE PERIMETER. CONTROLS WHERE POSSIBLE. INLETS SHALL REMAINED BLOCKED UNTIL THE TRIBUTARY AREA IS STABILIZED TO PREVENT SEDIMENT FROM ENTERING THE BASIN HOWEVER, WHEN POSITIVE DRAINAGE TO THE PERIMETER IS NOT POSSIBLE AND DRAINAGE TO AN INLET IS REQUIRED, THE INLET SHALL BE PROTECTED PER THE INLET PROTECTION DETAILS AND INLET NOTES

19. INSTALL ALL CURBING AND INSTALL STONE BASE COURSE IN THE DRIVEWAY AND PARKING AREAS. 20. COMPLETE THE ROADWAY IMPROVEMENTS ALONG HORSESHOE PIKE AND ESTABLISH ALL DRIVEWAY CONNECTIONS. ANY PERIMETER CONTROLS THAT CONFLICT WITH THIS SCOPE OF WORK ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM AREA IS SUFFICIENTLY STABILIZED, ONCE THE ACCESS DRIVE TO HORSESHOE PIKE IS INSTALLED UP TO THE STONE BASE COURSE AND THE FINAL GRAVEL ACCESS DRIVE TO THE NEIGHBORING PROPERTY HAS BEEN INSTALLED, THE ORIGINAL CONSTRUCTION

21. INITIATE FINAL GRADING AND PLACEMENT OF TOPSOIL IN ALL LANDSCAPE AREAS. AS SOON AS SLOPES. CHANNELS, DITCHES AND OTHER DISTURBED AREAS REACH FINAL GRADE, THEY MUST BE STABILIZED. ALL LANDSCAPE AREAS MUST BE STABILIZED AND PERMANENT SEEDING OR PLACEMENT OF SOD MUST BE APPLIED. WHEN FINAL GRADE IS ACHIEVED DURING NON-GERMINATING MONTHS, THE AREA SHOULD BE MULCHED UNTIL THE BEGINNING OF THE NEXT PLANTING SEASON. HOWEVER, THE AREA WILL NOT BE CONSIDERED STABILIZED UNTIL A MINIMUM UNIFORM 70% VEGETATIVE COVER OF EROSION RESISTANT PERENNIAL SPECIES HAS BEEN ACHIEVED. AS DISTURBED AREAS WITHIN A PROJECT APPROACH FINAL GRADE, PREPARATIONS SHOULD BE MADE FOR SEEDING AND MULCHING TO BEGIN (I.E. ANTICIPATE THE COMPLETION DATE AND SCHEDULE THE SEEDER). IN NO CASE SHOULD AN AREA EXCEEDING 15,000 SQUARE FEET, WHICH IS TO BE STABILIZED BY

VEGETATION, REACH FINAL GRADE WITHOUT BEING SEEDED AND MULCHED. WAITING UNTIL EARTHMOVING IS COMPLETED BEFORE MAKING PREPARATIONS FOR SEEDING AND MULCHING IS NOT ACCEPTABLE. SEEDING AND MULCHING REQUIREMENTS ARE SPECIFIED IN THE GENERAL CONSERVATION NOTES AND SPECIFICATIONS. 22 COMPLETE THE CURB REPLACEMENT/ ADDITION AND SIDEWALK INSTALLATION ALONG LLOYD AVENUE AND HORSESHOE PIKE DISTURB AND INSTALL SECTIONS OF CURB AND SIDEWALK THAT CAN BE COMPLETED WITHIN ONE (1) WORK DAY TO PREVENT PROLONGED EXPOSURE OF BARE SOIL THAT CAN CAUSE SEDIMENT TO RUNOFF DOWNSTREAM.

23. INSTALL ASPHALT BINDER COURSE AND CONCRETE INCLUDING SIDEWALKS. 24. INSTALL FINAL VEGETATION AND LANDSCAPING SPECIFIED ON THE LANDSCAPE PLAN.

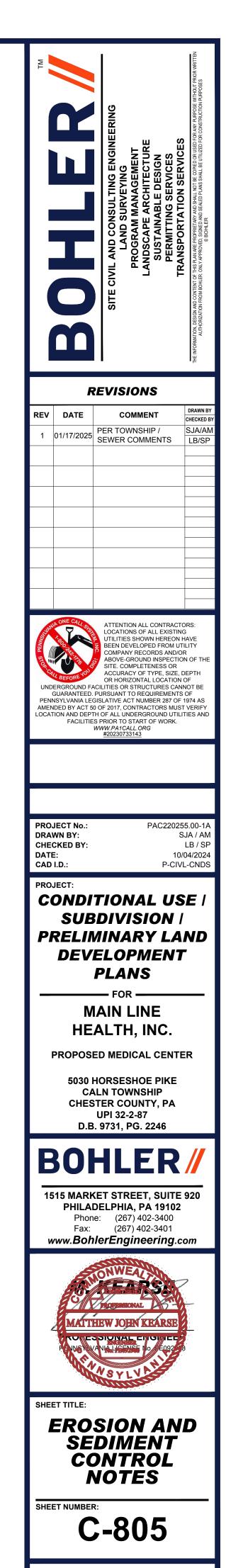
18. CONTINUE WITH THE BALANCE OF EARTHWORK INCLUDING UTILITY INSTALLATION (SANITARY, ELECTRIC, TELEPHONE, CABLE,

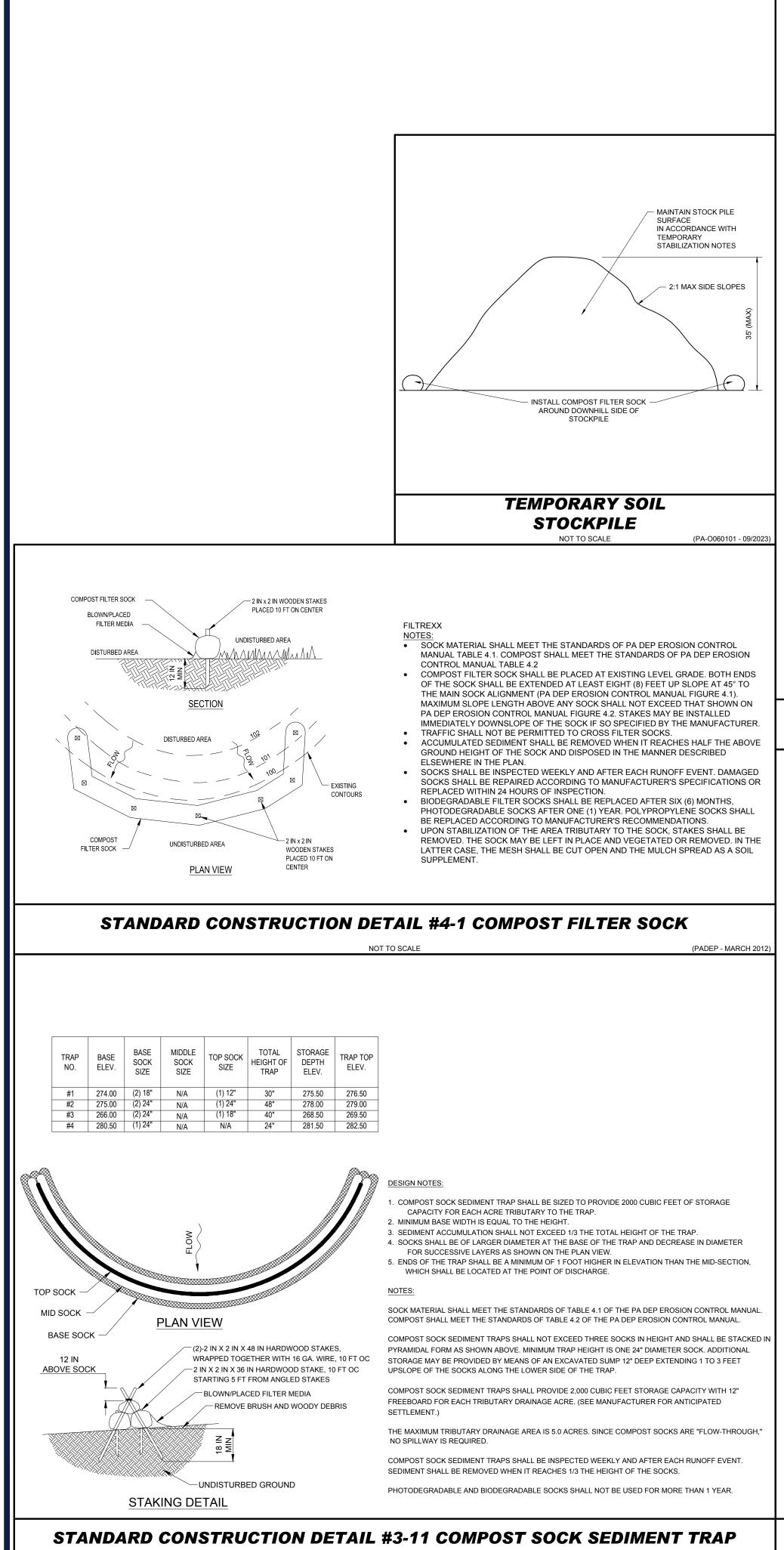
ENTRANCE AND REMAINING PORTION OF THE TEMPORARY DRIVE CAN BE DEMOLISHED.

25. CRITICAL STAGE: CONVERT EACH SEDIMENT TRAP TO THE FINAL MRC RAINGARDEN CONDITION, REFER TO THE MRC RAINGARDEN DETAILS FOR THE SPECIFIC CONVERSION SEQUENCE. THE PERMITTEE SHALL PROVIDE ENGINEERING OVERSIGHT DURING THE CONVERSION OF EACH SEDIMENT TRAP. A LICENSED PROFESSIONAL OR DESIGNEE KNOWLEDGEABLE IN THE DESIGN AND CONSTRUCTION OF ABOVE GROUND MRC RAINGARDENS. PREFERABLY THE DESIGN ENGINEER. SHALL CONDUCT

26. AS SOON AS CONSTRUCTION AND WEATHER CONDITIONS PERMIT, PLACE FINAL WEARING COURSE IN ALL ASPHALT AREAS. . UPON SITE STABILIZATION (UNIFORM COVERAGE OR DENSITY OF 70% ACROSS ALL DISTURBED AREAS) AND NOTIFICATION OF THE DESIGNATED LICENSED PROFESSIONAL, REMOVE ANY REMAINING EROSION AND SEDIMENT CONTROL MEASURES. ANY AREA DISTURBED DURING THE REMOVAL OF EROSION AND SEDIMENT CONTROL FACILITIES SHALL BE STABILIZED IMMEDIATELY 28. CLEAR SITE OF DEBRIS AND ALL UNWANTED MATERIALS. OPERATOR SHALL REMOVE FROM SITE, RECYCLE OR DISPOSE OF ALL BUILDING MATERIALS AND WASTES IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 260.1 ET SEQ., 271.1 ET SEQ. THE CONTRACTOR SHALL NOT ILLEGALLY BURY, DUMP OR DISCHARGE ANY BUILDING

30. A NOTICE OF TERMINATION FORM SHOULD BE SUBMITTED TO COUNTY CONSERVATION DISTRICT UPON STABILIZATION AND FINAL COMPLETION OF THIS PROJECT FOR ACKNOWLEDGEMENT. A FINAL AS-BUILT SURVEY OF ALL PCSM ITEMS SHALL BE





NOT TO SCALE

(PADEP - MARCH 2012

STANDARD CONSTRUCTION DETAIL #4-15 FILTER BAG INLET PROTECTION - TYPE C INLET

NOT TO SCALE

DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS.

OR REPLACED WHEN HALF FULL OR WHEN FLOW CAPACITY HAS BEEN REDUCED SO AS TO CAUSE FLOODING OR BYPASSING OF THE INLET. DAMAGED OR CLOGGED BAGS SHALL BE REPLACED. A SUPPLY SHALL BE MAINTAINED ON SITE FOR REPLACEMENT OF BAGS. ALL NEEDED REPAIRS SHALL BE INITIATED IMMEDIATELY AFTER THE INSPECTION. DISPOSE OF ACCUMULATED SEDIMENT AS WELL AS ALL

INLET FILTER BAGS SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT. BAGS SHALL BE EMPTIED AND RINSED

AT A MINIMUM, THE FABRIC SHALL HAVE A MINIMUM GRAB TENSILE STRENGTH OF 120 LBS, A MINIMUM BURST STRENGTH OF 200 PSI, AND A MINIMUM TRAPEZOIDAL TEAR STRENGTH OF 50 LBS. FILTER BAGS SHALL BE CAPABLE OF TRAPPING ALL PARTICLES NOT PASSING A NO. 40 SIEVE.

ROLLED EARTHEN BERM SHALL BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. SIX INCH MINIMUM HEIGHT ASPHALT BERM SHALL BE MAINTAINED UNTIL ROADWAY SURFACE RECEIVES FINAL COAT.

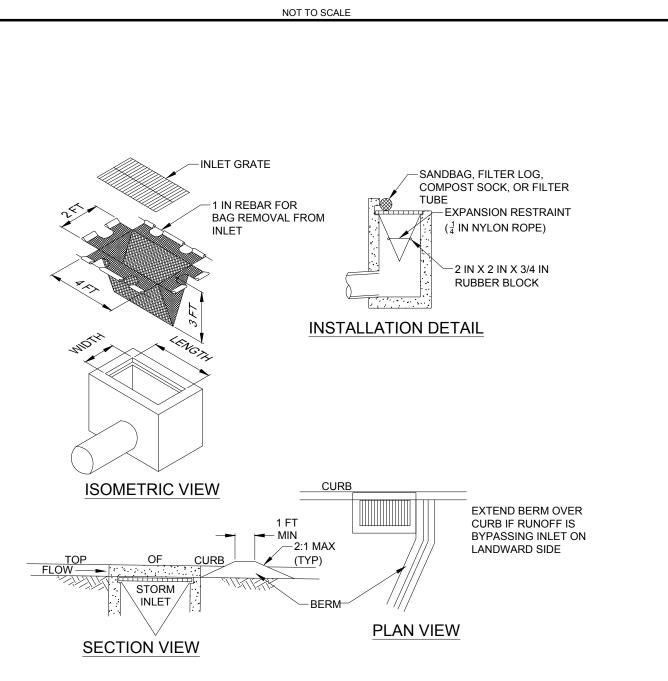
INLET PROTECTION SHALL NOT BE REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP. BERMS SHALL BE REQUIRED FOR ALL INSTALLATIONS.

USED BAGS ACCORDING TO THE PLAN NOTES.

ACCEPTABLE.

MAXIMUM DRAINAGE AREA = 1/2 ACRE.

NOTES:



STANDARD CONSTRUCTION DETAIL #3-1 (ABACT) **ROCK CONSTRUCTION ENTRANCE**

APPROPRIATELY FOR SIZE OF DITCH BEING CROSSED. SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE. ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE IMMEDIATELY. IF EXCESSIVE AMOUNTS OF SEDIMENT ARE BEING DEPOSITED ON ROADWAY, EXTEND LENGTH OF ROCK CONSTRUCTION ENTRANCE BY 50 FOOT INCREMENTS UNTIL CONDITION IS ALLEVIATED OR INSTALL WASH RACK. WASHING THE ROADWAY OR SWEEPING THE

DEPOSITS INTO ROADWAY DITCHES, SEWERS, CULVERTS, OR OTHER DRAINAGE COURSES IS NOT

MOUNTABLE BERM SHALL BE INSTALLED WHEREVER OPTIONAL CULVERT PIPE IS USED AND PROPER PIPE COVER AS SPECIFIED BY MANUFACTURER IS NOT OTHERWISE PROVIDED. PIPE SHALL BE SIZED MAINTENANCE: ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE

ENTERING ROCK CONSTRUCTION ENTRANCE.

FULL WIDTH OF ENTRANCE. RUNOFF SHALL BE DIVERTED FROM ROADWAY TO A SUITABLE SEDIMENT REMOVAL BMP PRIOR TO

WATERSHED

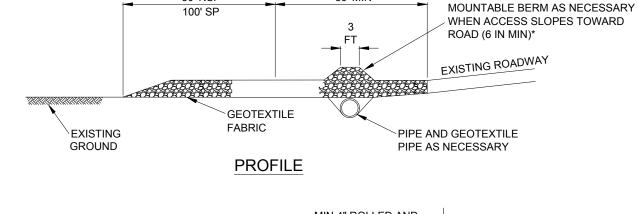
REMOVE TOPSOIL PRIOR TO INSTALLATION OF ROCK CONSTRUCTION ENTRANCE. EXTEND ROCK OVER

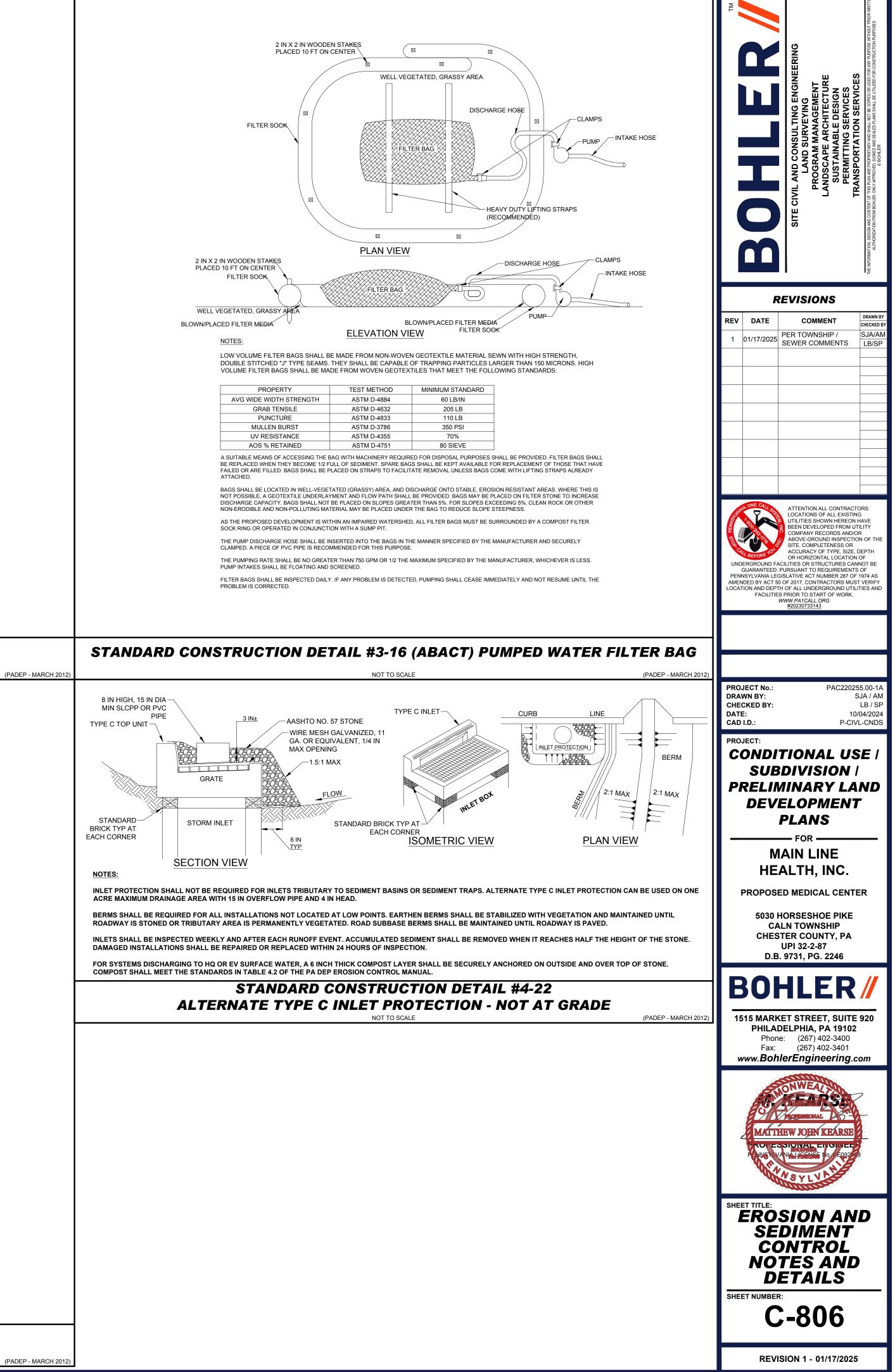
NOTES:

PLAN VIEW

SPECIAL PROTECTION * MOUNTABLE BERM USED TO PROVIDE PROPER COVER FOR PIPE WATERSHED SP - SPECIAL PROTECTION

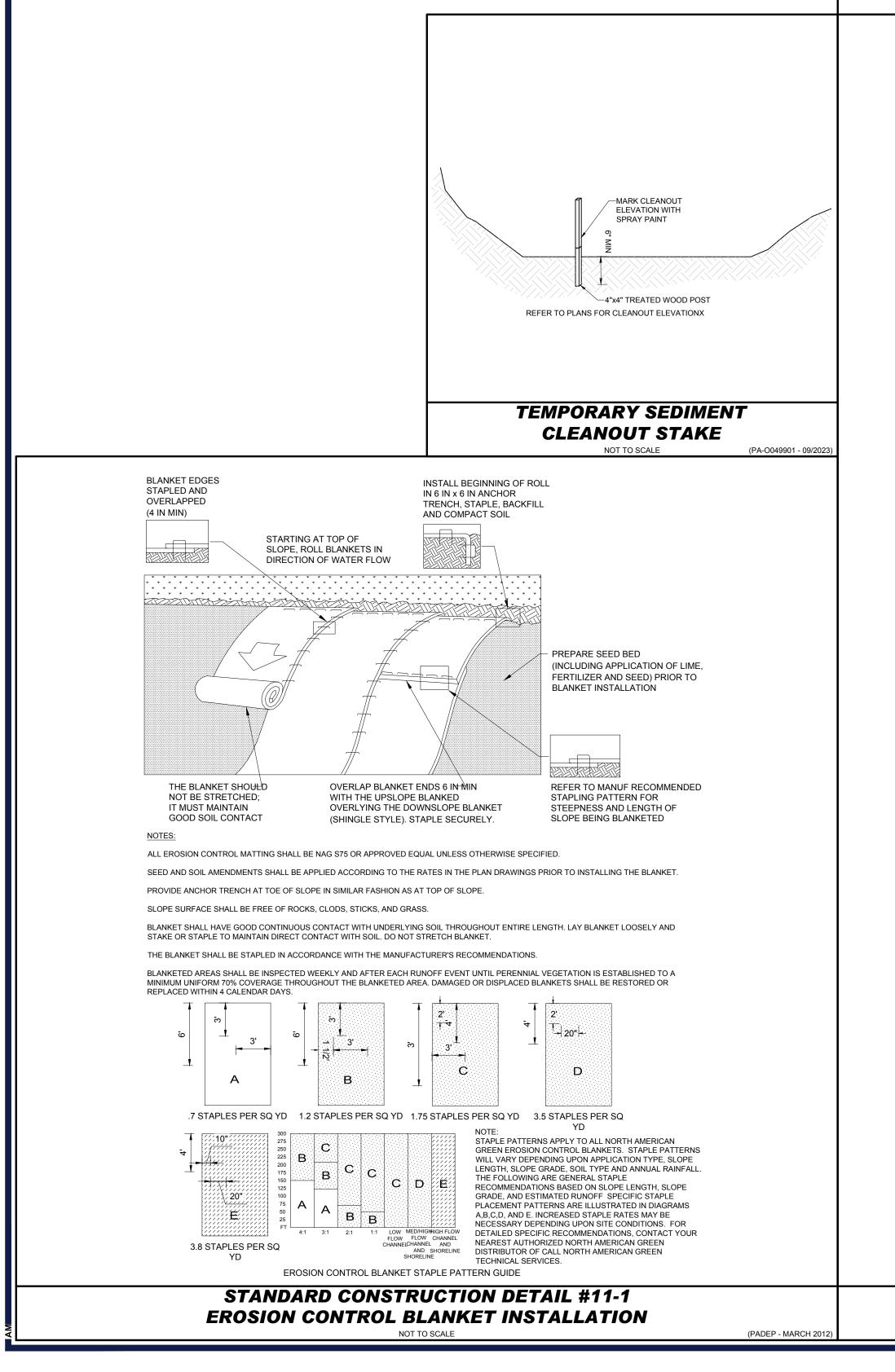
– MIN 4" ROLLED AND COMPACTED MIN 8" AASHTO #1 AGGREGATE PENNDOT 2RC AGGREGATE OVER ORANGE CONSTRUCTION FENCE 4" AASHTO #1 (IF NOT IN CUT / FILL) AGGREGATE – MOUNTABLE BERM (6" MIN)* (AS NEEDED) 50' MIN 50' NSI NSP -NON 100' SP







SEE SECTION DETAIL

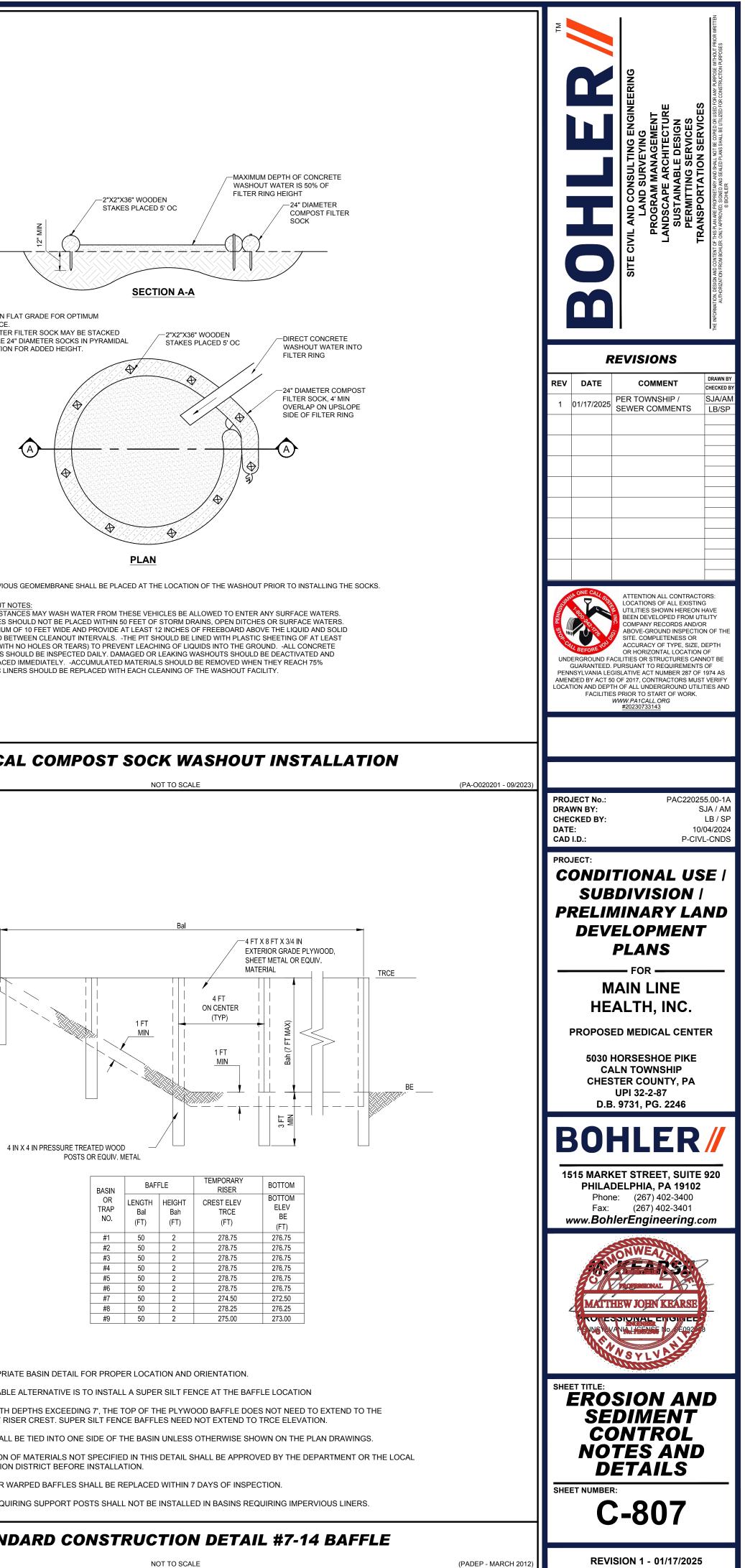


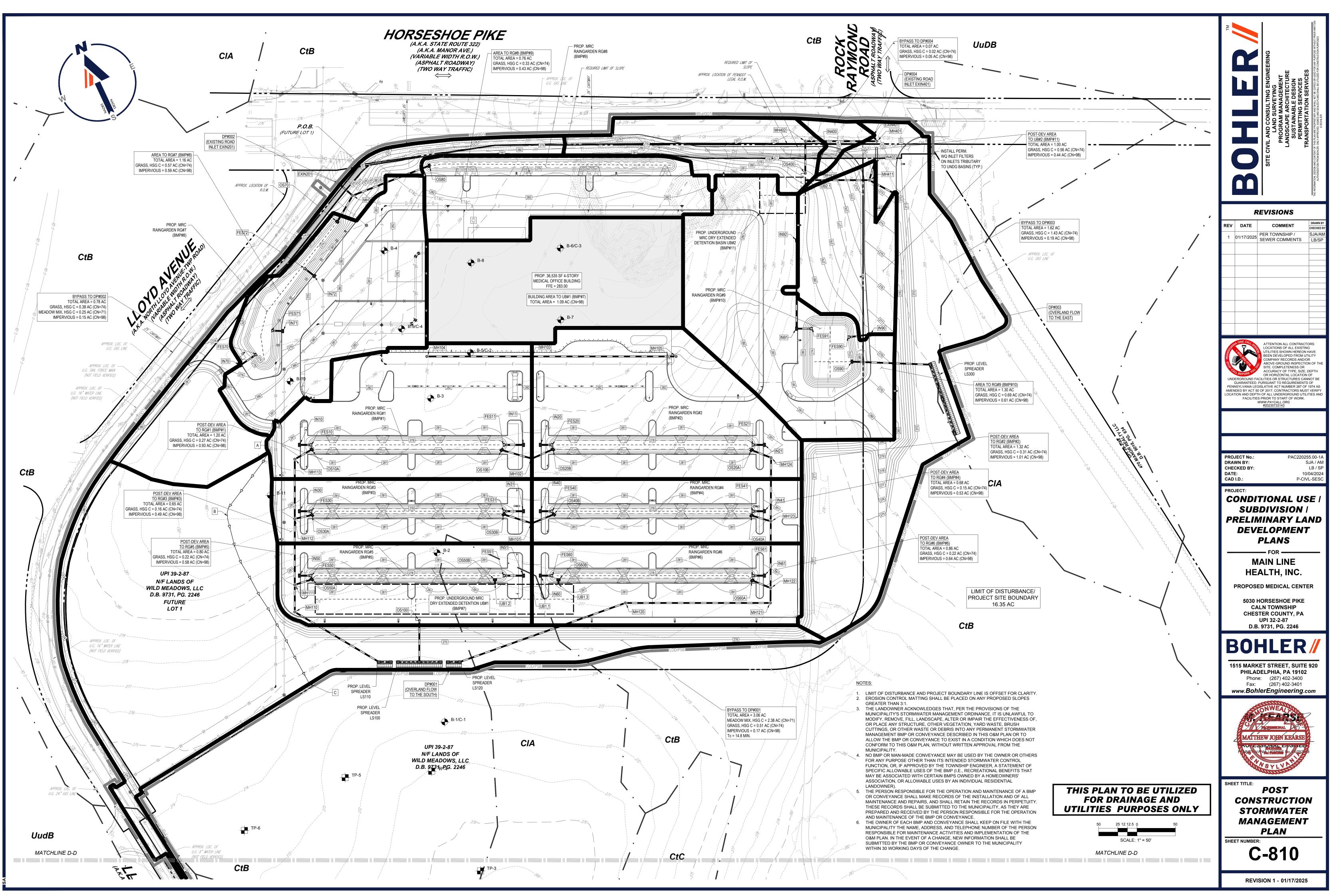
NO. 4 REBAR NO. 4 REBAR INX 1 IN X 1/8 IN ANGLE (TYP) CONCRETE BOX CONCRETE BOX CONCRETE BOX CONCRETE BOX CONCRETE OR METAL RISER PERMANENT STRUCTURE CONCRETE OR METAL RISER PERMANENT STRUCTURE CONCRETE DE LINX 2 IN PRESSURE TREATED CORNER SET INTO 1-1/2 IN GRATE OFFSETS, CAULK ALL SEAMS TO FORM WATERTICHT SEALS.	NOTES:
ACK COMPOSED OF 1 IN X 1 IN X 1/8 IN L (TYP) AND #4 BARS (TYP) WELDED TO CLOGGED OR DAMAGED SPILLWAYS SHALL BE REPAIRED IMMEDIATELY. S AND AT EACH INTERSECTION OF THE BARS; #4 BARS SPACED AT HALF THE DIAMETER TRASH AND OTHER DEBRIS SHALL BE REMOVED FROM THE BASIN AND REL MAX RISER.	1.) INSTALL ON FLA PERFORMANCE. 2.) 18" DIAMETER F ONTO DOUBLE 24" CONFIGURATION F
STANDARD CONSTRUCTION DETAIL #7-10 TEMPORARY RISER EXTENSION AND TRASH RACK FOR PERMANENT STRUCTURE NOT TO SCALE (PADEP - MARCH 2012	<u>)</u>
	A SUITABLE IMPERVIOUS CONCRETE WASHOUT NO -UNDER NO CIRCUMSTAN
RISER BARREL EMBANKMENT CLEAN POTTOM	-WASHOUT FACILITIES SH -SHOULD BE A MINIMUM O WASTE ANTICIPATED BET 10-MIL THICKNESS (WITH N WASHOUT FACILITIES SHO
TRAP NO. Z1 (FT) Z2 (FT) BOT PERF (FT) CREST CREST ELEV DIA MAT'L INLET Db Db (IN) LENGTH ELEV OUTLET ELEV TOP ELEV OUT BLEV BOTTOM ELEV NO. (FT) (FT) (FT) (IN) (IN) (FT) (FT) OUTLET ELEV TOP OUT BOTTOM ELEV NO. (FT)	REPAIRED OR REPLACED CAPACITYPLASTIC LINE
#1 2 2 278.25 279.25 HDPE 18 276.25 25 276.12 280.75 N/A 278.25 277.25 #2 2 2 278.25 279.25 HDPE 18 276.25 25 276.12 280.75 N/A 278.25 277.25 #3 2 2 278.25 279.25 HDPE 18 276.25 25 276.12 280.75 N/A 278.25 277.25 #3 2 2 278.25 279.25 HDPE 18 276.25 25 276.12 280.75 N/A 278.25 277.25 #4 2 2 278.25 279.25 HDPE 18 276.25 25 276.12 280.75 N/A 278.25 277.25 #4 2 2 278.25 279.25 HDPE 18 276.25 25 276.12 280.75 N/A 278.25 277.25	
#5 2 2 278.25 279.25 HDPE 18 276.25 25 276.12 280.75 N/A 278.25 277.25 #6 2 2 278.25 279.25 HDPE 18 276.25 25 276.12 280.75 N/A 278.25 277.25 #6 2 2 274.50 275.50 HDPE 18 276.25 25 276.12 280.75 N/A 278.25 277.25 #7 2 2 274.50 275.50 HDPE 18 272.50 103 271.70 276.50 5 274.50 273.50 #8 2 2 278.50 279.50 HDPE 18 276.25 96 271.70 280.25 5 278.50 277.50	TYPICA
#9 3 3 274.50 275.50 HDPE 18 268.50 95 266.50 277.00 N/A 274.50 273.50	
TRASH RACK AND ANTI-VORTEX DEVICE TRCE (2000 CF/AC) BOTTOM HOLE AT COE (700 CF/AC) THEN DE VERT FT BE BE BE BE TRASH RACK (SEE TRASH RACK (SEE TRASH RACK (SEE TRASH RACK (SEE TRASH RACK DETAIL) OUTLET BASIN OUTLET BASIN OUTLET BASIN OUTLET BASIN OUTLET BASIN OUTLET BASIN OUTLET BASIN UNDER FT SEDIMENT STORAGE ZONE	4 ΙΝ
NOTES:	
ALL ORIFICES TO BE USED FOR THE POST COSNTRUCTION STORMWATER PLAN SHALL BE PLUGGED DURING SEDIMENT TRAP PHASE. OS1A-OS6A SHALL NOT HAVE THE INLET TOP PIECE INSTALLED DURING TRAP PHASE AND USE A TEMPORARY TRASH RACK UNTIL FINAL CONVERSION. OS7-OS9 SHALL BE INSTALLED IN THE PERMANENT CONDITION.	
FILL MATERIAL FOR THE EMBANKMENTS SHALL BE FREE OF ROOTS, OR OTHER WOODY VEGETATION, ORGANIC MATERIAL, LARGE STONES, AND OTHER OBJECTIONABLE MATERIALS. THE EMBANKMENT SHALL BE COMPACTED IN LAYERED LIFTS OF NOT MORE THAN 6 TO 9 IN THE MAXIMUM ROCK SIZE SHALL BE NO GREATER THAN 2/3 THE LIFT THICKNESS.	
UPON COMPLETION, THE EMBANKMENT SHALL BE SEEDED AND MULCHED OR OTHERWISE STABILIZED ACCORDING TO THE SPECIFICATIONS OF THE E&S PLAN DRAWINGS.	
ALL SEDIMENT TRAPS SHALL BE INSPECTED AT LEAST WEEKLY AND AFTER EACH RUNOFF EVENT. ACCESS FOR SEDIMENT REMOVAL AND OTHER REQUIRED MAINTENANCE ACTIVITIES SHALL BE PROVIDED.	<u>NOTES:</u> SEE APPROPRIAT
A CLEAN OUT STAKE SHALL BE PLACED NEAR THE CENTER OF EACH TRAP. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT HAS REACHED THE CLEAN OUT ELEVATION ON THE STAKE AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS. DISPOSE OF MATERIALS REMOVED FROM THE TRAP IN THE MANNER DESCRIBED IN THE E&S PLAN.	AN ACCEPTABLE IN POOLS WITH D TEMPORARY RISE
CHECK EMBANKMENTS, SPILLWAYS, AND OUTLETS FOR EROSION, PIPING AND SETTLEMENT. CLOGGED OR DAMAGED SPILLWAYS AND/OR EMBANKMENTS SHALL BE IMMEDIATELY RESTORED TO THE DESIGN SPECIFICATIONS. DISPLACED RIPRAP WITHIN THE OUTLET PROTECTION SHALL BE REPLACED IMMEDIATELY.	BAFFLES SHALL E SUBSTITUTION OF
ACCUMULATED SEDIMENT SHALL BE REMOVED AND DISTURBED AREAS INSIDE THE TRAP SHALL BE STABILIZED BEFORE CONVERSION TO STORMWATER MANAGEMENT FACILITY.	CONSERVATION I DAMAGED OR WA BAFFLES REQUIR
STANDARD CONSTRUCTION DETAIL #8-8	STAND
CONCRETE RISER WITH TEMPORARY DEWATERING HOLES NOT TO SCALE (PADEP - MARCH 2012	

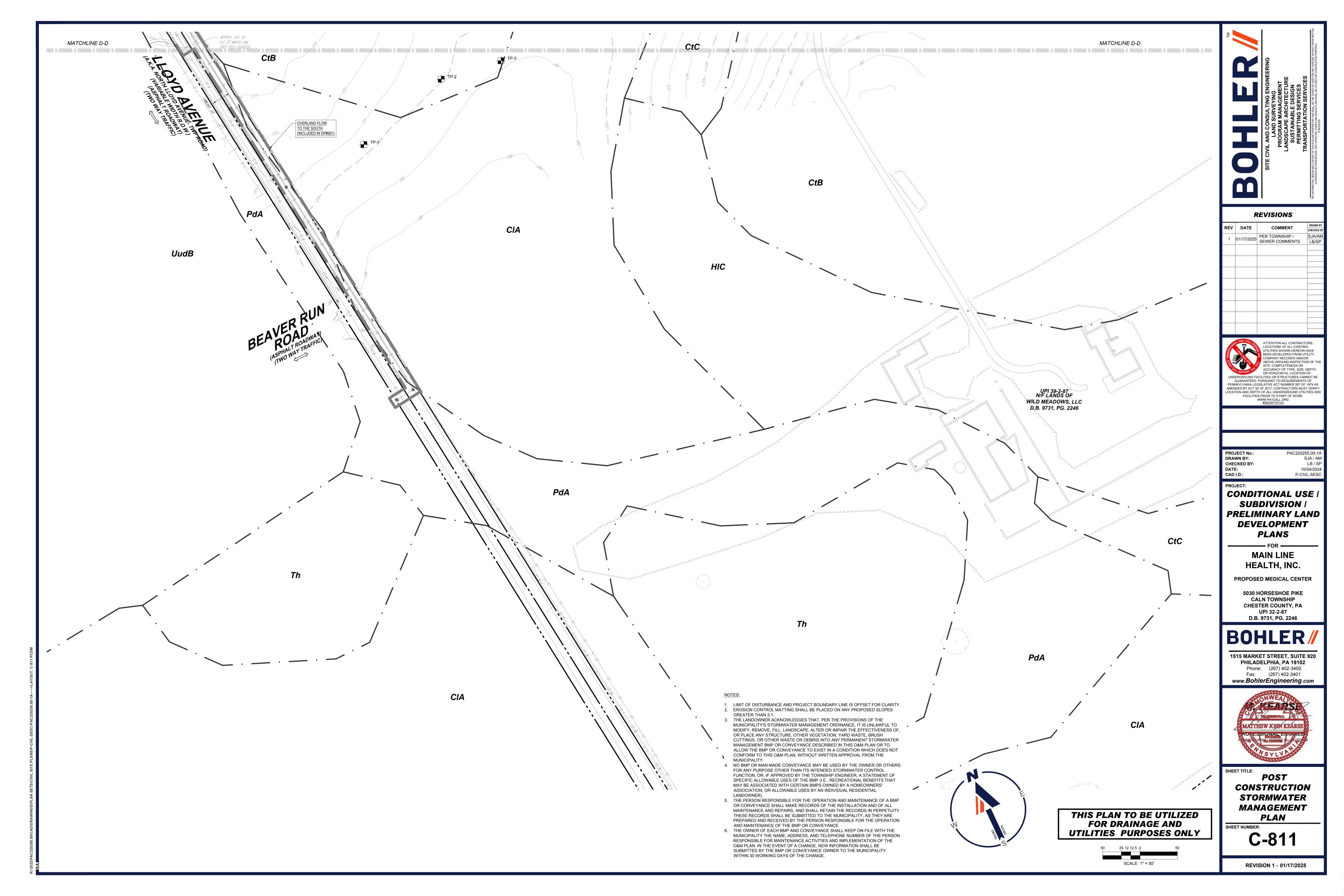
-TRASH RACK**

2 X PLYWOOD BOX HEIGHT

(12 IN MIN)







PCSM - GENERAL BMP NOTES

1. A SITE INSPECTION AND APPROVAL BY THE COUNTY CONSERVATION DISTRICT IS REQUIRED PRIOR TO THE REMOVAL OR CONVERSION OF SEDIMENT BASINS AND TRAPS

- BOHLER ENGINEERING SHALL BE NOTIFIED OF PRE-CONSTRUCTION MEETING DATE AND BMP CONSTRUCTION SCHEDULE. THE CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO LIMIT THE COMPACTION IN THE PROPOSED BMP BOTTOMS.
- REFER TO THE BMP CONSTRUCTION DETAILS FOR THE CONSTRUCTION OF ALL PROPOSED STORMWATER MANAGEMENT BMPs. REFER TO THE PCSWM PLAN AND DETAILS FOR SPECIFIC BMP CONSTRUCTION GUIDELINES.
- AS-BUILT PLANS OF THE STORMWATER BMPs FOR EACH PROJECT PHASE SHALL BE PROVIDED WITHIN SIX MONTHS FOLLOWING THE COMPLETION OF EACH PHASE. THE AS-BUILT PLANS SHALL BE SIGNED AND SEALED BY A PA REGISTERED PROFESSIONAL SURVEYOR A NOTICE OF TERMINATION (NOT) WILL BE REQUIRED TO BE SUBMITTED FOLLOWING APPROVAL OF THE FINAL AS-BUILT PLANS.

PRIOR TO ACCEPTING THE NOT, THE DEPARTMENT AND/OR CONSERVATION DISTRICT STAFF WILL PERFORM A FINAL INSPECTION

TO ENSURE SITE STABILIZATION AND VERIFY ADEQUATE INSTALLATION AND FUNCTION OF STORMWATER BMPs. LONG-TERM OPERATION AND MAINTENANCE

SCHEDULE

§102.8(f)(10)

- . UNTIL THE SITE IS STABILIZED AND DURING THE CONSTRUCTION ACTIVITIES, ALL BMPS MUST BE MAINTAINED PROPERLY BY CONTRACTOR. MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL BMPs AS SPECIFIED. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK INCLUDING CLEAN-OUT REPAIR REPLACEMENT RE-GRADING RE-SEEDING RE-MULICHING AND RE-NETTING MUST BE PERFORMED IMMEDIATELY AND IN ACCORDANCE WITH THESE PROCEDURES, PLANS, AND DETAILS, ANY AREAS DISTURBED DURING MAINTENANCE MUST BE STABILIZED IMMEDIATELY IN ACCORDANCE WITH THE GENERAL CONSERVATION NOTES AND SPECIFICATIONS. 2. ALL SITE INSPECTIONS MUST BE DOCUMENTED IN AN INSPECTION LOG KEPT FOR THIS PURPOSE INDICATING THE COMPLIANCE
- ACTIONS AND THE DATE, TIME AND NAME OF THE PERSON CONDUCTING THE INSPECTION. THE INSPECTION LOG MUST BE KEPT ON SITE AT ALL TIMES AND MADE AVAILABLE TO THE DISTRICT UPON REQUEST 3. SHOULD ON-SITE EROSION OCCUR FROM THE LANDSCAPED AREAS. THE SOURCE OF EROSION SHALL BE IMMEDIATELY
- STABILIZED AND THE INLETS AND STORMWATER PIPING SHALL BE CHECKED FOR ACCUMULATION AND CLEARED IF ACCUMULATION OF SEDIMENT EXISTS. 4. HEAVY CONSTRUCTION VEHICLES SHALL NOT BE PARKED ON OR DRIVEN OVER BMP FACILITIES AND CARE SHOULD BE TAKEN TO
- AVOID EXCESSIVE COMPACTION BY EQUIPMENT, INCLUDING MOWERS. 5 INSPECT INFILITRATION FACILITIES AFTER RUNOEF EVENTS AND MAKE SURE THAT RUNOFF DRAINS DOWN WITHIN 72 HOURS INSPECT FOR ACCUMULATION OF SEDIMENT. DAMAGE TO OUTLET CONTROL STRUCTURES. SIGNS OF WATER CONTAMINATION/SPILLS, AND SIGNS OF EROSION.
- 6. REMOVE ACCUMULATED SEDIMENT FROM THE FACILITIES AS REQUIRED. RESTORE ORIGINAL CROSS-SECTION IF NECESSARY PROPERLY DISPOSE OF SEDIMENT AS SPECIFIED. FOR ABOVE-GROUND INFILTRATION FACILITIES, REMOVE AND REPLACE SAND/STONE LAYER AS NECESSARY IF FACILITY DEWATERING TIME EXCEEDS 72 HOURS.
- MAIN LINE HEALTH, INC. IS RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF THE STORMWATER MANAGEMENT BMPs AS DESCRIBED HEREIN

DEFINITION OF CLEAN FILL AND IMPORT/EXPORT

MATERIAL NOTES

(Rev. 5/2024)

(Rev. 5/2024)

(Rev. 5/2024)

(Rev. 5/2024)

(Rev. 5/2024)

IF THE SITE WILL NEED TO IMPORT OR EXPORT MATERIAL FROM THE SITE, THE RESPONSIBILITY FOR PERFORMING ENVIRONMENTAL DUE DILIGENCE AND DETERMINATION OF CLEAN FILL WILL REST WITH THE APPLICANT

- 1. CLEAN FILL IS DEFINED AS: UNCONTAMINATED, NON-WATER SOLUBLE, NON-DECOMPOSABLE, INERT, SOLID MATERIAL, THE TERM INCLUDES SOIL BOCK STONE DREDGED MATERIAL USED ASPHALT AND BRICK BLOCK OR CONCRETE FROM CONSTRUCTION AND DEMOLITION ACTIVITIES THAT IS SEPARATE FROM OTHER WASTE AND IS RECOGNIZABLE AS SUCH. THE TERM DOES NOT INCLUDE MATERIALS PLACED IN OR ON THE WATERS OF THE COMMONWEALTH UNLESS OTHERWISI AUTHORIZED. (THE TERM "USED ASPHALT" DOES NOT INCLUDE MILLED ASPHALT OR ASPHALT THAT HAS BEEN PROCESSED FOR
- RF-USF) CLEAN FILL AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE: FILL MATERIALS AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE STILL QUALIFIES AS CLEAN FILL PROVIDED THE TESTING REVEALS THAT THE FILL MATERIAL CONTAINS CONCENTRATIONS OF REGULATED SUBSTANCES THAT ARE BELOW THE RESIDENTIAL LIMITS IN TABLES
- FP-1A AND FP-1B FOUND IN THE DEPARTMENT'S POLICY "MANAGEMENT OF FILL". ANY PERSON PLACING CLEAN FILL THAT HAS BEEN AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE MUST USE FORM FP-001 TO CERTIFY THE ORIGIN OF THE FILL MATERIAL AND THE RESULTS OF THE ANALYTICAL TESTING TO QUALIFY THE MATERIAL AS CLEAN FILL. FORM FP-001 MUST BE RETAINED BY THE OWNER OF THE PROPERTY RECEIVING THE FILL. A COPY OF
- FORM FP-001 CAN BE FOUND AT THE END OF THESE INSTRUCTIONS. ENVIRONMENTAL DUE DILIGENCE: THE APPLICANT MUST PERFORM ENVIRONMENTAL DUE DILIGENCE TO DETERMINE IF THE FILL MATERIALS ASSOCIATED WITH THE PROJECT QUALIFY AS CLEAN FILL. ENVIRONMENTAL DUE DILIGENCE IS DEFINED AS: INVESTIGATIVE TECHNIQUES, INCLUDING, BUT NOT LIMITED TO, VISUAL PROPERTY INSPECTIONS, ELECTRONIC DATA BASE SEARCHES, REVIEW OF PROPERTY OWNERSHIP, REVIEW OF PROPERTY USE HISTORY, SANBORN MAPS, ENVIRONMENTAL QUESTIONNAIRES, TRANSACTION SCREENS, ANALYTICAL TESTING, ENVIRONMENTAL ASSESSMENTS OR AUDITS. ANALYTICAL TESTING IS NOT A REQUIRED PART OF DUE DILIGENCE UNLESS VISUAL INSPECTION AND/OR REVIEW OF THE PAST LAND USE O THE PROPERTY INDICATES THAT THE FILL MAY HAVE BEEN SUBJECTED TO A SPILL OR RELEASE OF REGULATED SUBSTANCE. IF THE FILL MAY HAVE BEEN AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE, IT MUST BE TESTED TO DETERMINE IF IT QUALIFIES AS CLEAN FILL. TESTING SHOULD BE PERFORMED IN ACCORDANCE WITH APPENDIX A OF THE DEPARTMENT'S POLICY "MANAGEMENT OF FILL"
- FILL MATERIAL THAT DOES NOT QUALIFY AS CLEAN FILL IS REGULATED FILL. REGULATED FILL IS WASTE AND MUST BE MANAGED IN ACCORDANCE WITH THE DEPARTMENT'S MUNICIPAL OR RESIDUAL WASTE REGULATIONS BASED ON 25 PA. CODE CHAPTERS 287 RESIDUAL WASTE MANAGEMENT OR 271 MUNICIPAL WASTE MANAGEMENT, WHICHEVER IS APPLICABLE. THE REGULATIONS ARE AVAILABLE ON-LINE AT WWW PACODE COM

CRITICAL STAGES

 INSTALLATION OF ALL MRC RMPs (BOTH SURFACE RAIN GARDENS AND UNDERGROUND SYSTEMS) CONVERSION OF EACH SEDIMENT TRAP TO THE FINAL MRC RAINGARDEN CONDITION

LOCATION OF ALL SURFACE WATERS AND THEIR

CLASSIFICATION UNDER CHAPTER 93

(Rev. 5/2024) §102.4(b)(5)(v)

DISCHARGE POINTS #1 AND #3 OF THE SUBJECT SITE DRAIN TO BEAVER CREEK. WHICH HAS A COLD WATER FISHES (CWF) CHAPTER 93 CLASSIFICATION. DISCHARGE POINTS #2 AND #4 OF THE SUBJECT SITE DRAIN TO THE EAST BRANCH OF BRANDYWINE CREEK, WHICH HAS A WARM WATER FISHES (WWF) CHAPTER 93 CLASSIFICATION.

RECEIVING SURFACE WATERS

§102.8(f)(5)

- DISCHARGE POINTS #1 AND #3 OF THE SUBJECT SITE DRAIN TO BEAVER CREEK, WHICH HAS A COLD WATER FISHES (CWF) CHAPTER 93 CLASSIFICATION DISCHARGE POINTS #2 AND #4 OF THE SUBJECT SITE DRAIN TO THE EAST BRANCH OF
- BRANDYWINE CREEK, WHICH HAS A WARM WATER FISHES (WWF) CHAPTER 93 CLASSIFICATION. THE DEVELOPMENT IS IN NEITHER AN HQ NOR AN EV WATERSHED AND THEREFORE, NO BOUNDARIES ARE SHOWN.
- 3. THERE ARE NO WETLANDS LOCATED ON THE PROJECT SITE.

GEOLOGIC FORMATIONS/SOIL CONDITIONS THAT

MAY HAVE THE POTENTIAL TO CAUSE POLLUTION

(Rev. 5/2024)

§102.4(b)(5)(xii)

THERE ARE NO GEOLOGIC FORMATIONS OR SOIL CONDITIONS THAT COULD CAUSE CONTAMINANT POLLUTION DURING EARTH DISTURBANCE ACTIVITIES

MRC BMP OPERATION AND MAINTENANCE NOTES

- UPGRADIENT CATCH BASINS AND INLETS SHOULD BE INSPECTED AND CLEANED ANNUALLY, OR MORE OFTEN IF HISTORICAL MAINTENANCE RECORDS SUGGEST A MORE FREQUENT CLEANING
- THE VEGETATION OF THE CONTRIBUTING DRAINAGE AREAS SHOULD BE MAINTAINED IN GOOD CONDITION, AND ANY BARE SPOTS REVEGETATED
- INSPECT AT LEAST TWO TIMES PER YEAR AFTER RUNOFF EVENTS GREATER THAN 0.8 INCH AND MAKE SURE THAT RUNOFF
- DRAINS DOWN WITHIN 72 HOURS. 4. AT LEAST TWO TIMES PER YEAR, OR MORE IF HISTORICAL MAINTENANCE INDICATE IT IS NECESSARY, INSPECT FOR ACCUMULATION OF SEDIMENT, DAMAGE TO OUTLET CONTROL STRUCTURES, EROSION, SIGNS OF WATER CONTAMINATION/SPILLS, AND INSTABILITY, LEAF LITTER NEEDS TO BE REMOVED ANNUALLY
- 5. ALL MRC BMP COMPONENTS SHALL BE MAINTAINED AS INDICATED IN THE STORMWATER BMP MANUAL.

OVERALL SITE CONSTRUCTION SEQUENCE

A. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING SEQUENCE. EACH STAGE SHALL BE COMPLETED IN COMPLIANCE WITH CHAPTER 102 REGULATIONS BEFORE ANY FOLLOWING STAGE IS INITIATED. CLEARING AND GRUBBING SHALL BE LIMITED ONLY TO THOSE AREAS DESCRIBED IN EACH STAGE. UPON COMPLETION OR TEMPORARY CESSATION OF THE EARTH DISTURBANCE ACTIVITY THAT WILL EXCEED FOUR (4) DAYS, OR ANY STAGE THEREOF, THE PROJECT SITE SHALL BE IMMEDIATELY STABILIZED WITH THE APPROPRIATE TEMPORARY OR PERMANENT STABILIZATION. B. REFERENCES TO 'CONSERVATION DISTRICT' USED THROUGHOUT THIS SEQUENCE ARE MEANT TO REFER TO THE CHESTER COUNTY CONSERVATION DISTRICT

C. AT LEAST SEVEN (7) DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, THE OPERATOR SHALL INVITE ALL CONTRACTORS INVOLVED IN THOSE ACTIVITIES INCLUDING, BUT NOT LIMITED TO: THE LANDOWNER, ALL APPROPRIATE MUNICIPAL OFFICIALS AND A REPRESENTATIVE OF THE CONSERVATION DISTRICT FOR AN ON-SITE PRE-CONSTRUCTION MEETING. ALSO, AT LEAST THREE (3) DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES. ALL CONTRACTORS INVOLVED IN THOSE ACTIVITIES SHALL NOTIFY THE PENNSYLVANIA ONE CALL SYSTEM INC. AT 1-800-242-1776 FOR BURIED UTILITIES LOCATION. D. BEFORE INITIATING ANY REVISION TO THE APPROVED EROSION AND SEDIMENT CONTROL PLAN OR REVISIONS TO OTHER PLANS WHICH MAY AFFECT THE EFFECTIVENESS OF THE APPROVED E&S CONTROL PLAN. THE OPERATOR MUST RECEIVE APPROVAL OF THE REVISIONS FROM THE CONSERVATION DISTRICT. THE OPERATOR SHALL ASSURE THAT THE APPROVED EROSION AND SEDIMENT CONTROL PLAN IS PROPERLY AND COMPLETELY IMPLEMENTED. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL MPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO ELIMINATE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION.

E. THE TERM 'PERMANENT STABILIZATION' USED THROUGHOUT THIS SEQUENCE IS MEANT TO DESCRIBE THE PROPER PLACING, GRADING, CONSTRUCTING, REINFORCING, LINING, AND COVERING OF SOIL, ROCK OR EARTH TO ENSURE THEIR PERMANENT RESISTANCE TO EROSION, SLIDING OR OTHER MOVEMENT. FOR AN EARTH DISTURBANCE TO BE PERMANENTLY STABILIZED, THE DISTURBED AREA SHALL BE COVERED WITH ONE OF THE FOLLOWING: A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER WITH A DENSITY CAPABLE OF RESISTING ACCELERATED EROSION AND SEDIMENTATION; OR AN ACCEPTABLE BMP THAT PERMANENTLY MINIMIZES ACCELERATED EROSION AND SEDIMENTATION.

F. FOR EACH OF THE 'CRITICAL STAGES' SPECIFIED BELOW, THE PERMITTEE SHALL PROVIDE ENGINEERING OVERSIGHT. A LICENSED PROFESSIONAL OR DESIGNEE KNOWLEDGEABLE IN THE DESIGN AND CONSTRUCTION OF SAID BMP, PREFERABLY THE DESIGN ENGINEER, SHALL CONDUCT THE OVERSIGHT. G. SEDIMENT CONTROL FACILITIES, SUCH AS BASINS AND TRAPS, MUST BE PROTECTED FROM UNAUTHORIZED ACTS OF THIRD

PARTIES. REFER ALSO TO THE MONITORING, INSPECTION AND REPORTING REQUIREMENTS PROVIDED HEREIN FOR ADDITIONAL REQUIREMENTS DURING CONSTRUCTION. H. AS SOON AS SLOPES, CHANNELS, DITCHES AND OTHER DISTURBED AREAS REACH FINAL GRADE, THEY MUST BE STABILIZED.

WHEN FINAL GRADE IS ACHIEVED DURING NON-GERMINATING MONTHS, THE AREA SHOULD BE MULCHED UNTIL THE BEGINNING OF THE NEXT PLANTING SEASON. AS DISTURBED AREAS WITHIN A PROJECT APPROACH FINAL GRADE, PREPARATIONS SHOULD BE MADE FOR SEEDING AND MULCHING TO BEGIN (LE ANTICIPATE THE COMPLETION DATE AND SCHEDULE THE SEEDER) IN NO CASE SHOULD AN AREA EXCEEDING 15,000 SQUARE FEET, WHICH IS TO BE STABILIZED BY VEGETATION, REACH FINAL GRADE WITHOUT BEING SEEDED AND MULCHED WAITING UNTIL FARTHMOVING IS COMPLETED BEFORE MAKING PREPARATIONS FOR SEEDING AND MULCHING IS NOT ACCEPTABLE. SEEDING AND MULCHING REQUIREMENTS ARE SPECIFIED IN THE GENERAL CONSERVATION NOTES AND SPECIFICATIONS

PHASE #1:

- PRIOR TO ANY EARTH DISTURBANCE, THE CONTRACTOR SHALL DEMARK THE LIMITS OF DISTURBANCE IN THE FIELD USING STAKES, STRINGLINE, OR ANOTHER SIMILAR METHOD FOR EACH OF THE FOLLOWING STEPS IN PHASE #1, LIMIT CLEARING AND GRUBBING TO ONLY WHAT IS NECESSARY TO INSTALL
- FACH FEATURE
- THE NEIGHBORING PROPERTY INSTALL LEVEL SPREADER LS300. UTILIZE AN INITIAL COMPOST FILTER SOCK (CFS #2) DOWNSTREAM OF THE AREA TO PROTECT
- AGAINST SEDIMENT DURING CONSTRUCTION. INSTALL COMPOST SOCK SEDIMENT TRAP #3 AND UPSTREAM DIVERSIONS SOCKS.
- 6. CONSTRUCT THE TEMPORARY STONE ACCESS DRIVE TO SERVE THE NEIGHBORING PROPERTY DURING CONSTRUCTION. THE EXISTING ACCESS DRIVE MUST REMAIN ONLINE UNTIL COMPLETION. PREPARE THE TEMPORARY SOIL STOCKPILE AND MATERIAL STAGING AREAS AS SHOWN ON THE PLANS. INSTALL COMPOST
- SOCK SEDIMENT TRAP #4 DOWNSTREAM OF THE AREA. INSTALL THE FUTURE OUTFALL LOCATION AT EXIN201 WITHIN LLOYD AVENUE UP TO THE UPSTREAM MANHOLE. UPON COMPLETION, INSTALL COMPOST SOCK SEDIMENT TRAP #2.
- INSTALL THE LEVEL SPREADERS AT DP#001. UTILIZE AN INITIAL COMPOST FILTER SOCK (CFS #1) DOWNSTREAM OF THE AREA TO PROTECT AGAINST SEDIMENT DURING CONSTRUCTION.
- 10. INSTALL COMPOST SOCK SEDIMENT TRAP #1 AND UPSTREAM DIVERSION SOCKS UPON INSTALLATION AND STABILIZATION OF THESE FEATURES LISTED ABOVE. PROCEED TO PHASE #2. CONSISTENTLY MONITOR EACH E&S FEATURE THROUGHOUT CONSTRUCTION FOR ADEQUATE OPERATION AND PERFORM MAINTENANCE AS REQUIRED AND/OR AS THE MAINTENANCE SCHEDULE DICTATES.

PHASE #2:

- 12. COMPLETE ANY TREE REMOVAL/ DEMOLITION ACTIVITIES AS SHOWN ON THE DEMOLITION PLANS
- 13. INITIATE THE NECESSARY EARTHWORK TO REACH THE GRADE INDICATED ON THE PLANS. 14. BUILDING CONSTRUCTION MAY COMMENCE UPON ACCEPTANCE OF BUILDING PAD BY OWNER. THE CONCRETE WASHOUT MUST BE INSTALLED BEFORE ANY CONCRETE CAN BE POURED ON-SITE. CONTRACTOR MUST PERFORM BULK OF EARTHWORK TO BALANCE CUTS AND FILLS TO THE GREATEST EXTENT POSSIBLE. ALL AREAS DISTURBED DURING EARTHWORK PHASE OF CONSTRUCTION SHALL BE TEMPORARILY SEEDED AND STABILIZED IN ACCORDANCE WITH THE GENERAL CONSERVATION NOTES AND SPECIFICATIONS AND SEEDING SPECIFICATIONS IF PERMANENT STABILIZATION CANNOT BE ACHIEVED IMMEDIATELY. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE OFF OF THE BUILDING PAD TO THE PERIMETER CONTROLS PREVIOUSLY ESTABLISHED
- 15. CRITICAL STAGE: INITIATE THE INSTALLATION OF THE UNDERGROUND MRC BASINS UB#1 AND UB#2 (BMP#7 AND BMP#11). REFER TO THE DETAILED CONSTRUCTION SEQUENCE FOR THIS BMP ON THE PSCM DETAILS SHEET, MAINTENANCE AND INSPECTION NOTES ARE PROVIDED ON THE 0&M SCHEDULE. THE PERMITTEE SHALL PROVIDE ENGINEERING OVERSIGHT FOR THE CONSTRUCTION OF THE SUBSURFACE BASIN. A LICENSED PROFESSIONAL OR DESIGNEE KNOWLEDGEABLE IN THE DESIGN AND CONSTRUCTION OF SUBSURFACE BASINS. PREFERABLY THE DESIGN ENGINEER. SHALL CONDUCT THE OVERSIGHT. NO CONSTRUCTION EQUIPMENT, SUCH AS CRANES DURING BUILDING CONSTRUCTION, SHALL BE PARKED ON TOP OF THE SUBSURFACE BASIN TO AVOID DAMAGING THE SUBSURFACE BASIN OR OVER-COMPACTING THE SUBSURFACE SOILS.
- 16. AS THE SITE IS BROUGHT TO FINISHED GRADE AND THE POST CONSTRUCTION DRAINAGE CONDITIONS ARE ACHIEVED. EACH PROPOSED RAINGARDEN SHALL BE INSTALLED IN A TEMPORARY SEDIMENT TRAP CONDITION AND TEMPORARILY STABILIZED TO PREVENT SEDIMENT FROM ENTERING THE STORMWATER CONVEYANCE SYSTEM, RUNNING OFF DOWNSTREAM, AND/ OR CLOGGING THE PROPOSED MRC COMPONENTS.
- 17. INSTALL THE UPSTREAM INLETS AND PIPES TO THE UNDERGROUND BASINS AND EACH ABOVEGROUND MRC RAINGARDEN. INLETS DISCHARGING TO THE BASIN SHALL BE BLOCKED IMMEDIATELY AND FLOW SHALL BE DIVERTED TO THE PERIMETER CONTROLS WHERE POSSIBLE. INLETS SHALL REMAINED BLOCKED UNTIL THE TRIBUTARY AREA IS STABILIZED TO PREVENT SEDIMENT FROM ENTERING THE BASIN. HOWEVER, WHEN POSITIVE DRAINAGE TO THE PERIMETER IS NOT POSSIBLE AND DRAINAGE TO AN INLET IS REQUIRED. THE INLET SHALL BE PROTECTED PER THE INLET PROTECTION DETAILS AND INLET NOTES ON THE E&S PLANS
- 18. CONTINUE WITH THE BALANCE OF EARTHWORK INCLUDING UTILITY INSTALLATION (SANITARY, ELECTRIC, TELEPHONE, CABLE, AND GAS) WHERE APPLICABLE.
- 19. INSTALL ALL CURBING AND INSTALL STONE BASE COURSE IN THE DRIVEWAY AND PARKING AREAS. 20. COMPLETE THE ROADWAY IMPROVEMENTS ALONG HORSESHOE PIKE AND ESTABLISH ALL DRIVEWAY CONNECTIONS. ANY PERIMETER CONTROLS THAT CONFLICT WITH THIS SCOPE OF WORK ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM AREA IS SUFFICIENTLY STABILIZED. ONCE THE ACCESS DRIVE TO HORSESHOE PIKE IS INSTALLED UP TO THE STONE BASE COURSE AND THE FINAL GRAVEL ACCESS DRIVE TO THE NEIGHBORING PROPERTY HAS BEEN INSTALLED, THE ORIGINAL CONSTRUCTION
- ENTRANCE AND REMAINING PORTION OF THE TEMPORARY DRIVE CAN BE DEMOLISHED. 21. INITIATE FINAL GRADING AND PLACEMENT OF TOPSOIL IN ALL LANDSCAPE AREAS. AS SOON AS SLOPES, CHANNELS, DITCHES AND OTHER DISTURBED AREAS REACH FINAL GRADE THEY MUST BE STABILIZED. ALL LANDSCAPE AREAS MUST BE STABILIZED. AND PERMANENT SEEDING OR PLACEMENT OF SOD MUST BE APPLIED. WHEN FINAL GRADE IS ACHIEVED DURING NON-GERMINATING MONTHS. THE AREA SHOULD BE MULCHED UNTIL THE BEGINNING OF THE NEXT PLANTING SEASON. HOWEVER, THE AREA WILL NOT BE CONSIDERED STABILIZED UNTIL A MINIMUM UNIFORM 70% VEGETATIVE COVER OF EROSION RESISTANT PERENNIAL SPECIES HAS BEEN ACHIEVED. AS DISTURBED AREAS WITHIN A PROJECT APPROACH FINAL GRADE, PREPARATIONS SHOULD BE MADE FOR SEEDING AND MULCHING TO BEGIN (I.E. ANTICIPATE THE COMPLETION DATE AND SCHEDULE THE SEEDER). IN NO CASE SHOULD AN AREA EXCEEDING 15,000 SQUARE FEET, WHICH IS TO BE STABILIZED BY VEGETATION, REACH FINAL GRADE WITHOUT BEING SEEDED AND MULCHED. WAITING UNTIL EARTHMOVING IS COMPLETED BEFORE MAKING PREPARATIONS FOR SEEDING AND MULCHING IS NOT ACCEPTABLE. SEEDING AND MULCHING REQUIREMENTS
- ARE SPECIFIED IN THE GENERAL CONSERVATION NOTES AND SPECIFICATIONS. 22. COMPLETE THE CURB REPLACEMENT/ ADDITION AND SIDEWALK INSTALLATION ALONG LLOYD AVENUE AND HORSESHOE PIKE. DISTURB AND INSTALL SECTIONS OF CURB AND SIDEWALK THAT CAN BE COMPLETED WITHIN ONE (1) WORK DAY TO PREVENT
- PROLONGED EXPOSURE OF BARE SOIL THAT CAN CAUSE SEDIMENT TO RUNOFF DOWNSTREAM. 23. INSTALL ASPHALT BINDER COURSE AND CONCRETE INCLUDING SIDEWALKS
- 24. INSTALL FINAL VEGETATION AND LANDSCAPING SPECIFIED ON THE LANDSCAPE PLAN 25. CRITICAL STAGE: CONVERT EACH SEDIMENT TRAP TO THE FINAL MRC RAINGARDEN CONDITION. REFER TO THE MRC RAINGARDEN DETAILS FOR THE SPECIFIC CONVERSION SEQUENCE. THE PERMITTEE SHALL PROVIDE ENGINEERING OVERSIGHT DURING THE CONVERSION OF EACH SEDIMENT TRAP. A LICENSED PROFESSIONAL OR DESIGNEE KNOWLEDGEABLE IN THE DESIGN AND CONSTRUCTION OF ABOVE GROUND MRC RAINGARDENS, PREFERABLY THE DESIGN ENGINEER, SHALL CONDUCT
- 26. AS SOON AS CONSTRUCTION AND WEATHER CONDITIONS PERMIT. PLACE FINAL WEARING COURSE IN ALL ASPHALT AREAS. 27 UPON SITE STABILIZATION (UNIFORM COVERAGE OR DENSITY OF 70% ACROSS ALL DISTURBED AREAS) AND NOTIFICATION OF THE DESIGNATED LICENSED PROFESSIONAL REMOVE ANY REMAINING FROSION AND SEDIMENT CONTROL MEASURES ANY AREA DISTURBED DURING THE REMOVAL OF EROSION AND SEDIMENT CONTROL FACILITIES SHALL BE STABILIZED IMMEDIATELY
- 28. CLEAR SITE OF DEBRIS AND ALL UNWANTED MATERIALS, OPERATOR SHALL REMOVE FROM SITE, RECYCLE OR DISPOSE OF ALL BUILDING MATERIALS AND WASTES IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 260.1 ET SEQ., 271.1 ET SEQ. THE CONTRACTOR SHALL NOT ILLEGALLY BURY, DUMP OR DISCHARGE ANY BUILDING MATERIAL OR WASTE AT THIS SITE 29. DEMOBILIZE.
- 30. A NOTICE OF TERMINATION FORM SHOULD BE SUBMITTED TO COUNTY CONSERVATION DISTRICT UPON STABILIZATION AND FINAL COMPLETION OF THIS PROJECT FOR ACKNOWLEDGEMENT. A FINAL AS-BUILT SURVEY OF ALL PCSM ITEMS SHALL BE REQUIRED AS PART OF THE NOT PACKAGE

(Rev. 11/2023)

INSTALL THE STONE CONSTRUCTION ENTRANCE AS SHOWN ON THE PLANS. MAINTAIN ACCESS TO THE EXISTING DRIVEWAY TO

RECYCLING OR DISPOSAL OF MATERIALS

§102.8(f)(11)

THE FOLLOWING IS A LIST THAT INCLUDES, BUT THAT IS NOT LIMITED TO, THE POTENTIAL CONSTRUCTION WASTES THAT MAY EX ON-SITE: - TRASH (CANS, BOTTLES, ETC

- YARD WASTE (LEAVES, GRASS CLIPPINGS, ETC.) DEBRIS COLLECTED IN INLETS

- SEDIMENT CAPTURED IN ANY PCSM BM

\$102 8/f\(2)

ALL BUILDING MATERIALS AND WASTES SHALL BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH

LOCAL REQUIREMENTS. NO BUILDING MATERIALS OR WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THE SITE.

INFILTRATION TESTING SUMMARY TABLE

102.8(f)(2)											
	5,407,40	RC	СК	WA	TER		INFI	TRATION TES	TING		DESIGN
TEST PIT NUMBER	EXISTING GROUND ELEVATION (FT)	DEPTH (FT)	ELEVATION (FT)	DEPTH (FT)	ELEVATION (FT)	LIMITING ZONE ELEV	DEPTH (FT)	ELEVATION (FT)	RATE (IN/HR)	FACTOR OF SAFETY	DESIGN RATE * (IN/HR)
I-1 @ TP-1	271.00	-	-	-	-	-	4.00	267.00	1.0	3.00	0.33
I-2 @ TP-2	270.50	-	-	11.00	259.50	259.50	4.00	266.50	1.0	3.00	0.33
I-3 @ TP-3	269.00	10.50	258.50	-	-	258.50	4.00	265.00	0.0	3.00	0.00
I-4 @ TP-4	271.00	-	-	11.50	259.50	259.50	4.00	267.00	0.0	3.00	0.00
I-5 @ TP-5	273.00	-	-	11.75	261.25	261.25	4.00	269.00	0.0	3.00	0.00
I-6 @ TP-6	273.50	11.50	262.00	-	-	262.00	4.00	269.50	1.0	3.00	0.33

* PER THE GEOTECHNICAL INVESTIGATION CONCLUSION & RECOMMENDATIONS. THE RESULTS OBTAINED FROM THE PRELIMINARY IN-SITU INFIL TRATION TESTING INDICATED THAT THE SITE SOILS ARE MARGINALLY SUITABLE FOR SWM INFIL TRATION DESIGN. THE RATES ENTED ABOVE ARE LIMITED AND THE GEOMETRIC MEAN OF THE AREA TESTED IS ZERO. OTHER TEST BORINGS PERFORMED THROUGHOUT THE SITE SHOW A UNIFORM DISTRIBUTION OF FINE-GRAINED AND CLAYEY SOILS. ALSO, SINCE INFILTRATION INTO THE SUBSTRATA INCREASES RISK OF SINKHOLE DEVELOPMENT. INFILTRATION IS NOT PROPOSED ON-SITE AND MANAGED RELEASE CONCEPT BMPs SHALL BE USED. ALL BMPs PROPOSED SHALL BE LINED WITH AN IMPERMEABLE LINER TO PREVENT INFILTRATION OF STORMWATER.

LONG-TERM OPERATION AND MAINTENANCE SCHEDULE

(Rev. 5/2024)

ВМР	QUANTITY	SCHEDULE	INSPECTION TASK	MAINTENANCE	FAILURE INDICA
BMP 6.4.5 MRC RAIN GARDEN / BIORETENTION	BMP#1-#6, BMP#8-#10	4 TIMES PER YEAR	- INSPECT FOR LITTER AND SEDIMENT ACCUMULATION - INSPECT VEGETATIVE COVER CONDITION - EVALUATE PLANT GROWTH	NEEDED MAINTENANCE SHOULD BE CONDUCTED IMMEDIATELY AFTER EACH INSPECTION. THE LITTER AND SEDIMENT SHALL BE REMOVED TO RESTORE DESIGN CAPACITIES AND DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL	FAILURE INDICATORS INCI RAINGARDEN/BIORETENTIOI NOT DEWATER WITHIN 72 HC ABUNDANCE OF WETLAND FOUND WITHIN T RAINGARDEN/BIORETENTION OBSERVING A FAILURE IN QUALIFIED INDIVIDUAL SUCH A OR SOIL SCIENTIST/ENGINE CONSULTED TO DETERMIN. CAUSE OF FAILURE. UPO INVESTIGATION PERFORM QUALIFIED INDIVIDUAL A REM
		ANNUALLY	REMOVE DETRITUS, CUT BACK DORMANT PERENNIAL PLANS INSPECT FOR INVASIVE PLANT SPECIES INSPECT MULCH LEVEL AND REPLENISH AS NECESSARY	REGULATIONS.	GUALIFIED INDIVIDUAL A REM SHALL BE IMPLEMENTED TO BASIN TO ITS ORIGINAL DESIG THIS INCLUDES PERFORMIN INFILTRATION TESTING TO WHETHER THE FACILITY HAS I BACK TO ITS ORIGINAL DESIG
BMP 6.6.3 SUBSURFACE MRC DRY EXTENDED DETENTION BASIN	BMP#7, BMP#11	4 TIMES PER YEAR	OPEN THE INSPECTION LOCATIONS. THERE SHOULD BE NO STANDING WATER WITHIN THE BASIN UNLESS IT IS WITHIN 192 HRS OF A RAIN EVENT - EXAMINE THE BASIN BOTTOM FOR EXCESSIVE TRASH/ SEDIMENT ACCUMULATION - AT OUTFLOW STRUCTURES, EXAMINE FOR EVIDENCE OF LEAKAGE OR ANY TRASH/ DEBRIS THAT BLOCKS ORIFICES/ WEIRS OR OUTFALL PIPES - EXAMINE THE UPSTREAM INLET'S PRE-TREATMENT DEVICES (STORMSACK) FOR TRASH AND SEDIMENT ACCUMULATIONS. REMOVE AS REQUIRED.	ACCUMULATED DEBRIS AND SEDIMENT IN ANY UPSTREAM INLETS OR THE OUTFLOW STRUCTURE SHOULD BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS. ANY DAMAGE TO A STRUCTURE CAUSING LEAKAGE/ IMPEDANCE TO FUNCTIONALITY SHALL BE REPLACED IN-KIND.	IF ANY BASIN IS OBSERVED TO F. WITHIN THE ALLOWABLE 192 HOI SHALL NOTIFY THE ENGINEER (QUALIFIED GEOTECHNICAL TO DEVELOP A PLAN TO ADDRESS
		2 TIMES PER YEAR (DURING A RAINFALL EVENT)	OPEN THE OUTFLOW STRUCTURE AND EXAMINE FOR ANY LEAKAGE THROUGH THE WEIR WALL OR ANY BLOCKAGES OF ORIFICES/ WEIRS.		

INSPECTION AND MAINTENANCE OF UNDERGROUND FACILITIES SHALL BE COMPLETED WITHOUT ENTERING THE STRUCTURE TO THE FULLEST EXTEND POSSIBLE DUE TO HEALTH HAZARDS. IF ACCESS TO THE ER SHALL EVALUATE THE SITE CONI ONS AND DEVELOP A PLAN TO COMPLE ANY ISSUES FOUND DURING INSPECTIONS BEYOND THIS O&M CHART, A LICENSED ENGINEER MAY BE NEEDED FOR FURTHER EVALUATION.

PLANTING SOIL SPECIFICATION FOR INFILTRATION, **BIOFILTRATION AND MRC FACILITIES**

FOR MOST BIO-RETENTION, BIO-INFILTRATION AND BIO-FILTRATION FACILITIES, PLANTING SOIL SHALL BE A MANUFACTURED SOIL COMPRISED OF A CLEAN TOPSOIL SUPPLEMENTED WITH ORGANIC MATERIAL AND COARSE SAND. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE A PLANTING SOIL THAT MEETS THE "TARGET TEST RESULTS OF COMPLETED PLANTING SOIL", INCLUDING THE USE OF COMPOST THAT ALSO MEETS THE INDEPENDENT REQUIREMENTS NOTED HEREIN. THE CONTRACTOR SHALL PROVIDE ALL SUBMITTALS OUTLINED BELOW TO THE PROJECT ENGINEER PRIOR TO INSTALLATION.

TEST RESULTS OF COMPLETED PLANTING SOIL THE COMPLETED PLANTING SOIL SHALL MEET, AT A MINIMUM, THE FOLLOWING SPECIFICATIONS. THE CONTRACTOR SHALL BE

RESPONSIBLE TO SUPPLEMENT THE ABOVE STARTER BLEND AS NECESSARY TO ACHIEVE THIS GOAL SAND: 60-80% BY WEIGHT

 SILT: 25% MAXIMUM BY WEIGHT CLAY: 10% MAXIMUM BY WEIGHT • ORGANIC MATTER: 5-7% (DRY WEIGHT BASIS)

PH: 5.5-7.2

 HYDRAULIC CONDUCTIVITY (ASTM F1815) AT 75% PROCTOR (ASTM D698): 2-6 IN/HR SOLUBLE SALT CONTENT (ELECTRICAL CONDUCTIVITY 1 SOIL : 2 WATER) MAXIMUM 3 MMHO/CM

TARGET TEST RESULTS OF COMPOST USED IN COMPLETED SOIL: COMPOST USED IN THE COMPLETED SOIL MUST BE SOURCED FROM A FACILITY PARTICIPATING IN THE US COMPOSTING COUNCIL'S (USCC) SEAL OF TESTING ASSURANCE (STA) PROGRAM. COMPOST MUST COMPLY WITH THE FOLLOWING

 PH: 6.0-8.0 SOLUBLE SALT CONTENT (ELECTRICAL CONDUCTIVITY 1 SOIL : 2 WATER) MAXIMUM 5 MMHO/CM, EXCEPT FOR RE-PROCESSED

- MUSHROOM COMPOST WHICH SHALL BE PERMITTED A MAXIMUM OF 10 MMHO/CM. MOISTURE CONTENT: 30-60% (WET WEIGHT BASIS) ORGANIC MATTER CONTENT: 30-65% (DRY WEIGHT BASIS)
- PARTICLE SIZE: 98% PASSES THROUGH 1/2" SCREEN MATURITY (BIOASSAY): SEED EMERGENCE AND SEEDING VIGOR, PERCENT RELATIVE TO POSITIVE CONTROL, SHALL BOTH BE A MINIMUM OF 80%
- PHYSICAL CONTAMINANTS (INERTS): < 0.5% (DRY WEIGHT BASIS) CHEMICAL CONTAMINANTS: MEETS OR EXCEEDS US EPA CLASS A STANDARD, 40 CFR §503,13, TABLE 3 • BIOLOGICAL CONTAMINANTS, FECAL COLIFORM BACTERIA OR SALMONELLA: MEETS OR EXCEEDS US EPA CLASS A STANDARD, 40 CFR §503.32.(A)

LAB TESTS MUST BE DATED WITHIN 6 MONTHS PRIOR TO DELIVERY TO THE WORK SITE. SUBMITTALS SHALL BE PROVIDED 3 MONTHS PRIOR TO INSTALLATION TO PREVENT DELAYS IN CONSTRUCTION. IN SUMMARY, THE CONTRACTOR MUST PROVIDE A SUBMITTAL PACKAGE CONTAINING THE FOLLOWING, AT A MINIMUM: • IF ON-SITE SOILS ARE TO BE USED IN THE FINISHED BLEND:

- 1. A REPRESENTATIVE SAMPLE SHALL BE COLLECTED FROM BORROW SOILS AND SHALL BE TESTED FOR SUITABILITY AS A TOPSOIL BASE PRIOR TO USING IN THE COMPLETED BLEND. TEST RESULTS SHOULD DEMONSTRATE COMPLIANCE WITH PENNSYLVANIA EPA'S CLEAN FILL REQUIREMENTS AND THAT THE TEXTURE IS A LOAM. SANDY LOAM OR CLAY LOAM TOPSOIL.
- 2. A MOCK-UP BLENDED SAMPLE MUST BE CREATED USING THE TESTED ON-SITE SOILS FOR THE PURPOSE OF TESTING AND CONFIRMATION OF FEASIBILITY TO MEET THE COMPLETED PLANTING SOIL REQUIREMENTS NOTED ABOVE. THE MOCK-UP MUST BE APPROVED BY THE PROJECT ENGINEER PRIOR TO FINAL BLENDING AND INSTALLATION.
- SOIL TEST RESULTS OF THE COMPLETED SOIL BY AN INDEPENDENT SOIL TESTING LABORATORY MEETING OR EXCEEDING SPECIFICATIONS NOTED HEREIN (SEE SPECIFICATIONS OUTLINED IN "TEST RESULTS OF COMPLETED PLANTING SOIL" ABOVE)
- COMPOST TEST RESULTS PREPARED BY AN INDEPENDENT SOIL TESTING LABORATORY MEETING OR EXCEEDING SPECIFICATIONS NOTED HEREIN • A USCC STA CERTIFICATE SHALL BE PROVIDED FOR THE COMPOST SUPPLIER.

PROTECTION AND INSTALLATION WHERE FEASIBLE. IT IS PREFERABLE THAT THE PLANTING SOIL IS INSTALLED USING FOUIPMENT THAT CAN PLACE THE MATERIAL

WITHOUT ENTERING THE LIMITS OF THE BMP FACILITY, HOWEVER, IF IT IS NECESSARY TO ENTER THE FACILITY, ALL EQUIPMENT UTILIZED TO INSTALL OR GRADE SOILS SHALL BE WIDE-TRACK OR BALLOON TIRES RATED WITH AN AVERAGE GROUND PRESSURE LESS THAN 10 PSI. THE SUBSOIL SHALL BE SCARIFIED 3-6" IN DEPTH PRIOR TO PLACEMENT OF PLANTING SOIL. SOIL SHALL BE

INSTALLED IN 12-18" LIFTS AND COMPACTED TO 65-75% PROCTOR (ABOUT 75-250 PSI). WITHOUT EXCEPTION, SOIL SHOULD NOT BE COMPACTED HIGHER THAN 75% PROCTOR (250 PSI). ONCE THE SOILS HAVE BEEN FULLY PLACED, THE ENTIRE AREA SHALL BE MARKED AND OFF-LIMITS TO MACHINERY

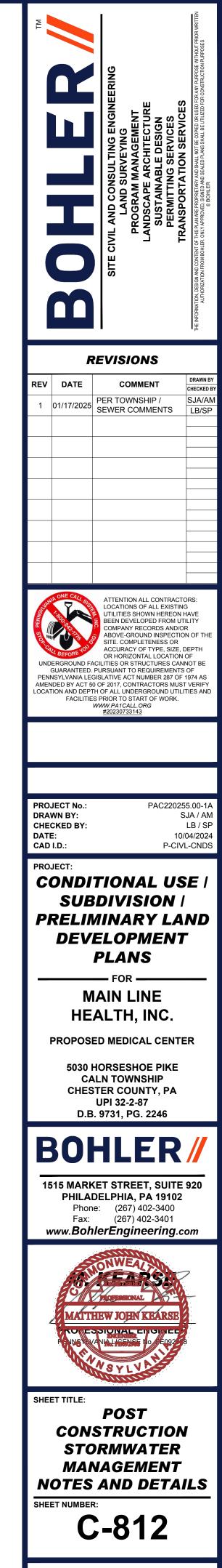
GUIDANCE FOR BLENDING OF PLANTING SOIL A PRE-BLENDED IMPORT SOIL IS PREFERRED. HOWEVER, THE CONTRACTOR MAY USE AVAILABLE ON-SITE SOILS IN THE MIX PROVIDED THAT THEY ARE TESTED AND MEET THE PENNSYLVANIA EPA'S CLEAN FILL REQUIREMENTS, AND THAT THE PHYSICAL TEST RESULTS CLASSIFY THE SOIL AS A LOAM, SANDY LOAM OR CLAY LOAM. THE FOLLOWING IS INTENDED ONLY AS A STARTER MIX, THE CONTRACTOR WILL BE EXPECTED TO SUPPLEMENT AS NECESSARY TO ACHIEVE THE TARGET RANGES LISTED UNDER THE SECTION TITLED "TEST RESULTS OF FINISHED PLANTING SOIL" ABOVE: • 20-35% TOPSOIL BASE (LOAM, SANDY LOAM OR CLAY LOAM) BY VOLUME

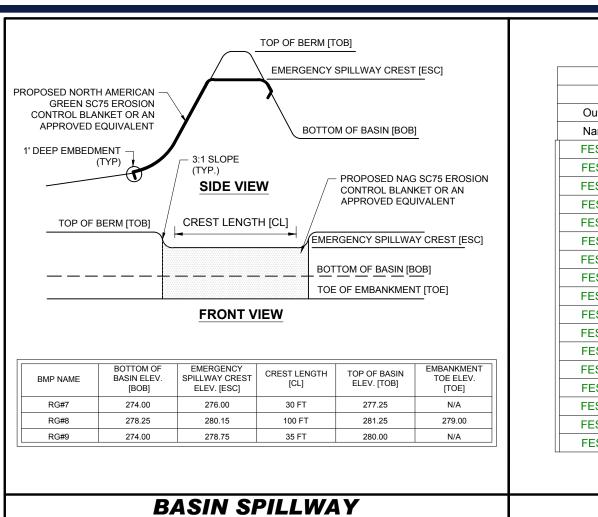
• 30-70% COARSE SAND (ASTM C-33 CONCRETE SAND) BY VOLUME • 20-30% COMPOST (USCC STA CERTIFIED) BY VOLUME (NO MORE THAN 30% BY VOLUME)

BEFORE TESTING AND AMENDING TO ACHIEVE THE TARGET TEST RESULTS OF THE FINISHED PLANTING SOIL, THIS SOIL SHOULD BE SCREENED AND BLENDED THOROUGHLY. NOTE THAT THESE ARE BY-VOLUME MEASUREMENTS TO ASSIST WITH IN-FIELD BLENDING, WHEREAS THE TARGET TEST RESULTS ARE GENERALLY BY-WEIGHT MEASUREMENTS.

ATORS

CLUDE IF THE ON BASIN DOES HOURS OR IF AN **ID PLANTS ARE** ON BASIN UPON INDICATOR A AS AN ENGINEER NEER SHALL BE INE THE EXACT ON FURTHER RMFD BY THE MEDIATION PLAN O RESTORE THE SIGN CAPACITIES IING ADDITIONAL O DETERMINE S BEEN BROUGHT SIGN CAPACITIES FAIL TO DEWATER OURS THE OWNER R OF RECORD OR SS THE DEFICIENC

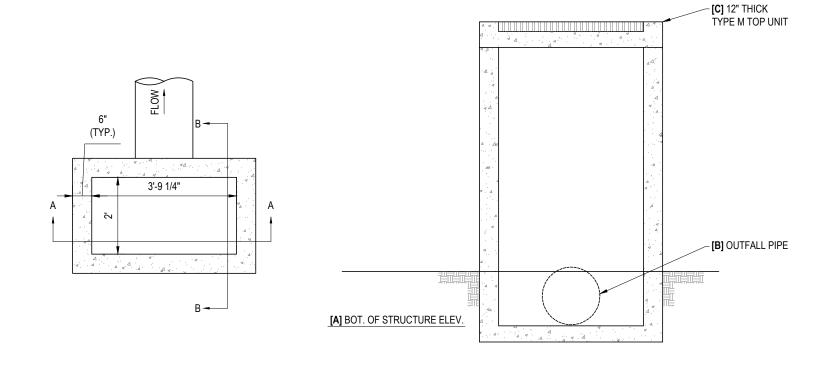




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DETAIL NOT TO SCALE

	[A] BOTTOM OF STRUCTURE	[B] OUTF PIPE		[C] TO	P UNIT
OUTFLOW STRUCTURE NUMBER	ELEVATION [FT]	DIAMETER [IN]	INVERT [FT]	GRATE ELEVATION [FT]	BOT. ELEVATION [FT]
OS1B	276.50	18"	276.50	279.50	278.50
OS2B	276.50	18"	276.50	279.65	278.65
OS3B	276.50	18"	276.50	279.50	278.50
OS4B	276.50	18"	276.50	279.50	278.50
OS5B	276.50	18"	276.50	279.50	278.50
OS6B	276.50	18"	276.50	279.65	278.65



PLAN VIEW

SECTION B-B

CAST IRON INLET GRATE

4000 PSI MIN.

STRENGTH

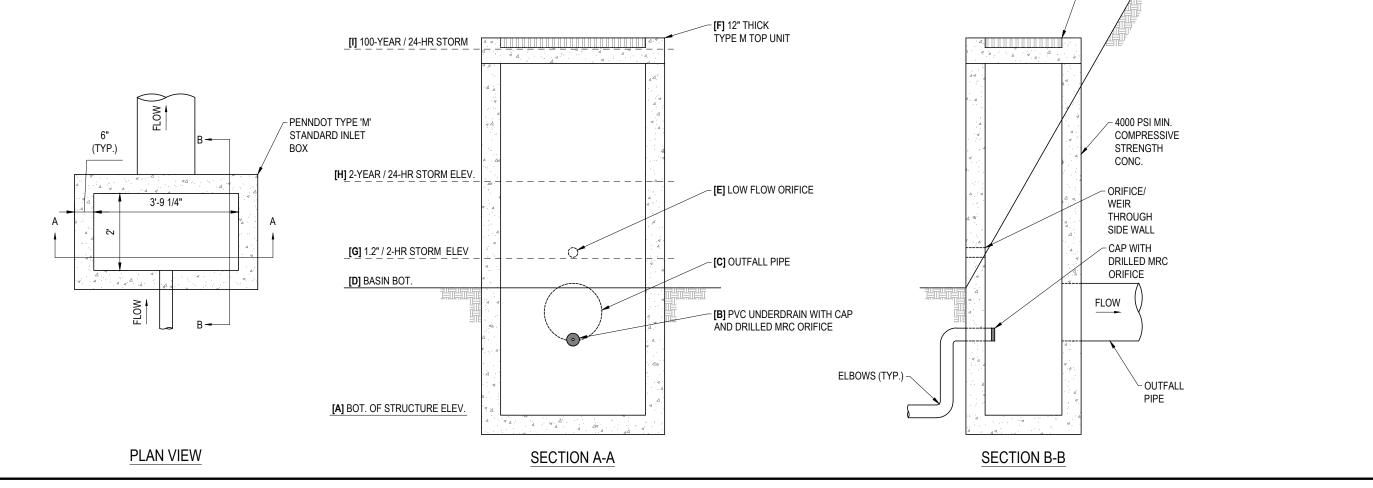
CONC.

COMPRESSIVE

RAINGARDEN OVERFLOW STRUCTURE DETAILS

SECTION A-A

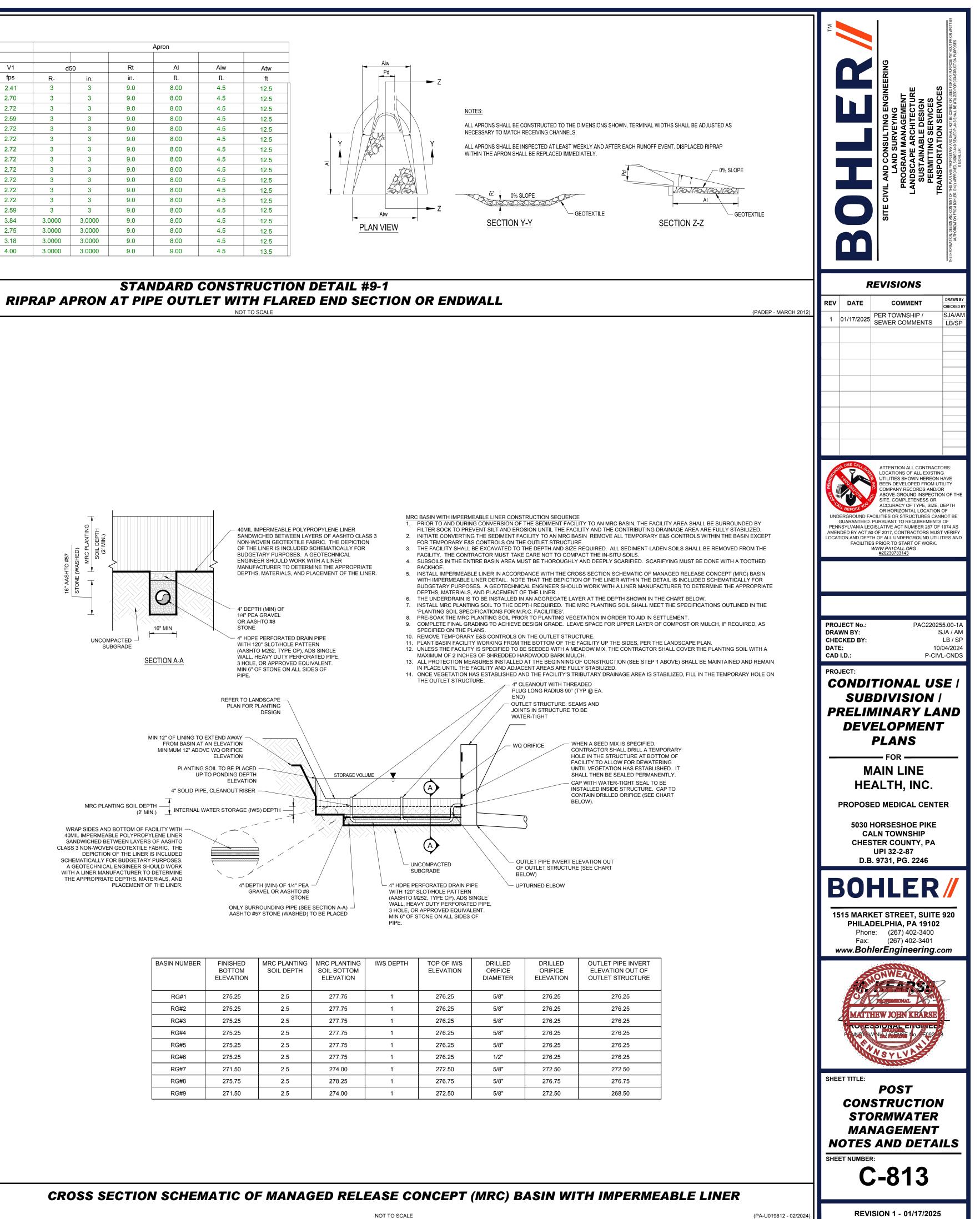
	[A] BOTTOM OF STRUCTURE	[B] MF	RC UNDERDRA	IN	[C] OUTFLC	W PIPE	[D] BASIN BOTTOM	[E] LOW ORIFI		[F] TO	P UNIT	[G] 1.2"/ 2-HR STORM	[H] 2-YEAR/ 24-HR STORM	[I] 100-YEAR/ 24-HR STORM
OUTFLOW STRUCTURE NUMBER	ELEVATION [FT]	PVC DIAMETER [IN]	DRILLED ORIFICE SIZE [IN]	INVERT [FT]	DIAMETER [IN]	INVERT [FT]	ELEVATION [FT]	DIAMETER [IN]	INVERT [FT]	GRATE ELEVATION [FT]	BOT. ELEVATION [FT]	ELEVATION [FT]	ELEVATION [FT]	ELEVATION [FT]
OS1A	275.25	4"	5/8"	276.25	18"	276.25	277.75	3"	278.50	280.25	279.25	278.29	279.31	279.92
OS2A	275.25	4"	5/8"	276.25	18"	276.25	277.75	3"	278.50	280.25	279.25	278.34	279.40	280.10
OS3A	275.25	4"	5/8"	276.25	18"	276.25	277.75	3"	278.80	280.25	279.25	278.19	279.07	279.77
OS4A	275.25	4"	5/8"	276.25	18"	276.25	277.75	3"	278.80	280.25	279.25	278.23	279.10	279.79
OS5A	275.25	4"	5/8"	276.25	18"	276.25	277.75	3"	278.80	280.25	279.25	278.35	279.27	279.82
OS6A	275.25	4"	1/2"	276.25	18"	276.25	277.75	3"	278.50	280.25	279.25	278.42	279.32	279.99

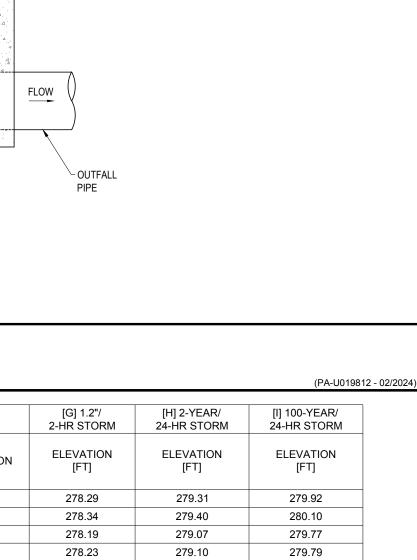


RAINGARDEN MRC OUTFLOW STRUCTURE DETAILS

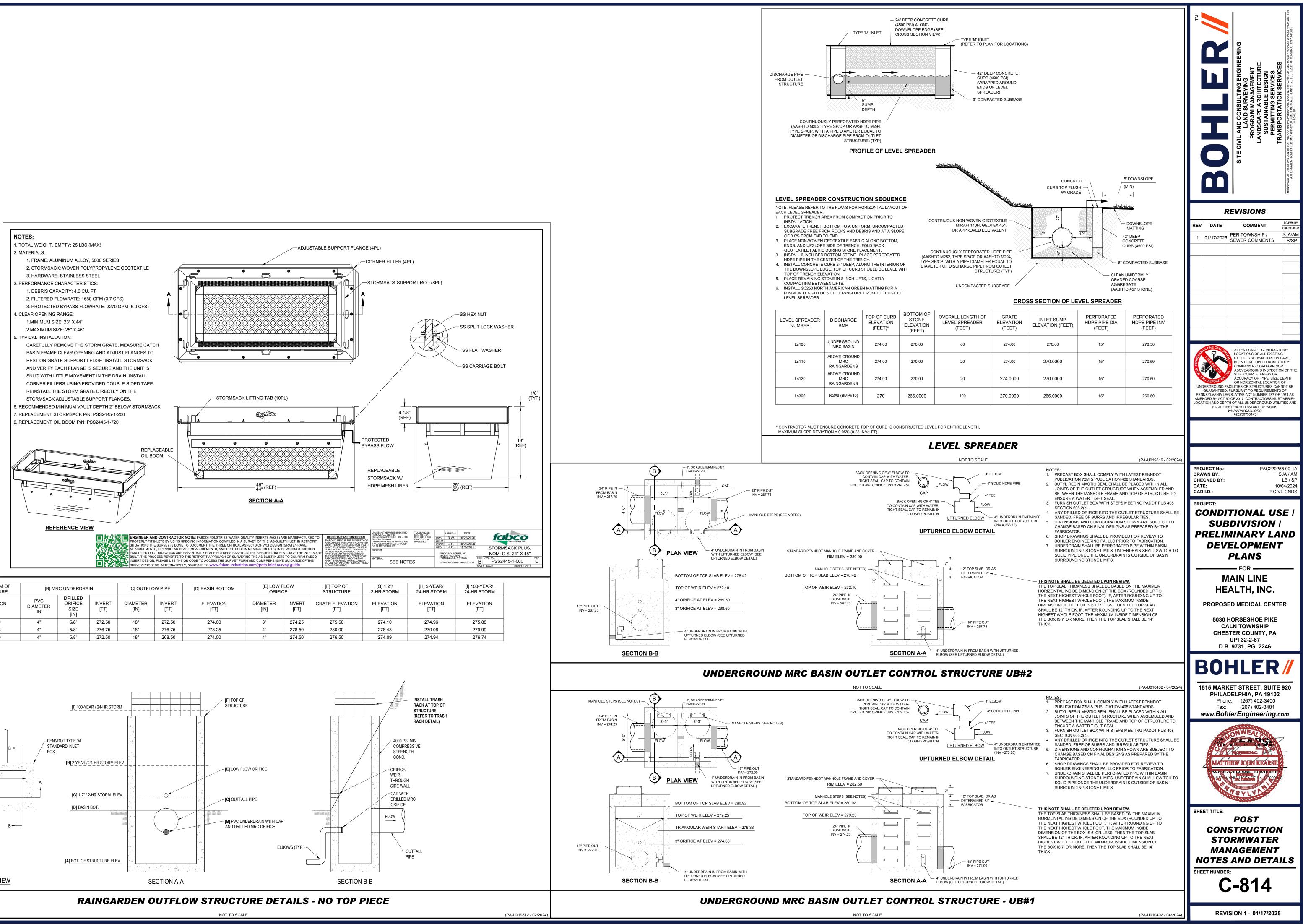
NOT TO SCALE

			P	ipe						Apron			
		Tail Water	Manning's										
Outlet	Dia.	Condition	"n"		Q	V1	d	50	Rt	Al	Aiw	Atw	 ◄ /
Name	In.	Min or Max	For Pipe	Slope	cfs	fps	R-	in.	in.	ft.	ft.	ft	
ES10	12 x 18	MIN	0.012	0.0050	0.45	2.41	3	3	9.0	8.00	4.5	12.5	
ES11	12 x 18	MIN	0.012	0.0050	0.50	2.70	3	3	9.0	8.00	4.5	12.5	
ES20	12 x 18	MIN	0.012	0.0050	0.43	2.72	3	3	9.0	8.00	4.5	12.5	
ES21	12 x 18	MIN	0.012	0.0050	0.56	2.59	3	3	9.0	8.00	4.5	12.5	
ES30	12 x 18	MIN	0.012	0.0050	0.45	2.72	3	3	9.0	8.00	4.5	12.5	
ES31	12 x 18	MIN	0.012	0.0050	0.27	2.72	3	3	9.0	8.00	4.5	12.5	
ES40	12 x 18	MIN	0.012	0.0050	0.20	2.72	3	3	9.0	8.00	4.5	12.5	
ES41	12 x 18	MIN	0.012	0.0050	0.63	2.72	3	3	9.0	8.00	4.5	12.5	
ES50	12 x 18	MIN	0.012	0.0050	0.43	2.72	3	3	9.0	8.00	4.5	12.5	
ES51	12 x 18	MIN	0.012	0.0050	0.29	2.72	3	3	9.0	8.00	4.5	12.5	
ES60	12 x 18	MIN	0.012	0.0050	0.23	2.72	3	3	9.0	8.00	4.5	12.5	
ES61	12 x 18	MIN	0.012	0.0050	0.72	2.72	3	3	9.0	8.00	4.5	12.5	
ES70	18	MIN	0.012	0.0050	0.75	2.59	3	3	9.0	8.00	4.5	12.5	А
ES71	18	MIN	0.012	0.0050	2.92	3.84	3.0000	3.0000	9.0	8.00	4.5	12.5	-
ES72	18	MIN	0.012	0.0050	0.96	2.75	3.0000	3.0000	9.0	8.00	4.5	12.5	PLAN V
ES90	18	MIN	0.012	0.0050	1.57	3.18	3.0000	3.0000	9.0	8.00	4.5	12.5	
ES91	18	MIN	0.012	0.0050	3.37	4.00	3.0000	3.0000	9.0	9.00	4.5	13.5	

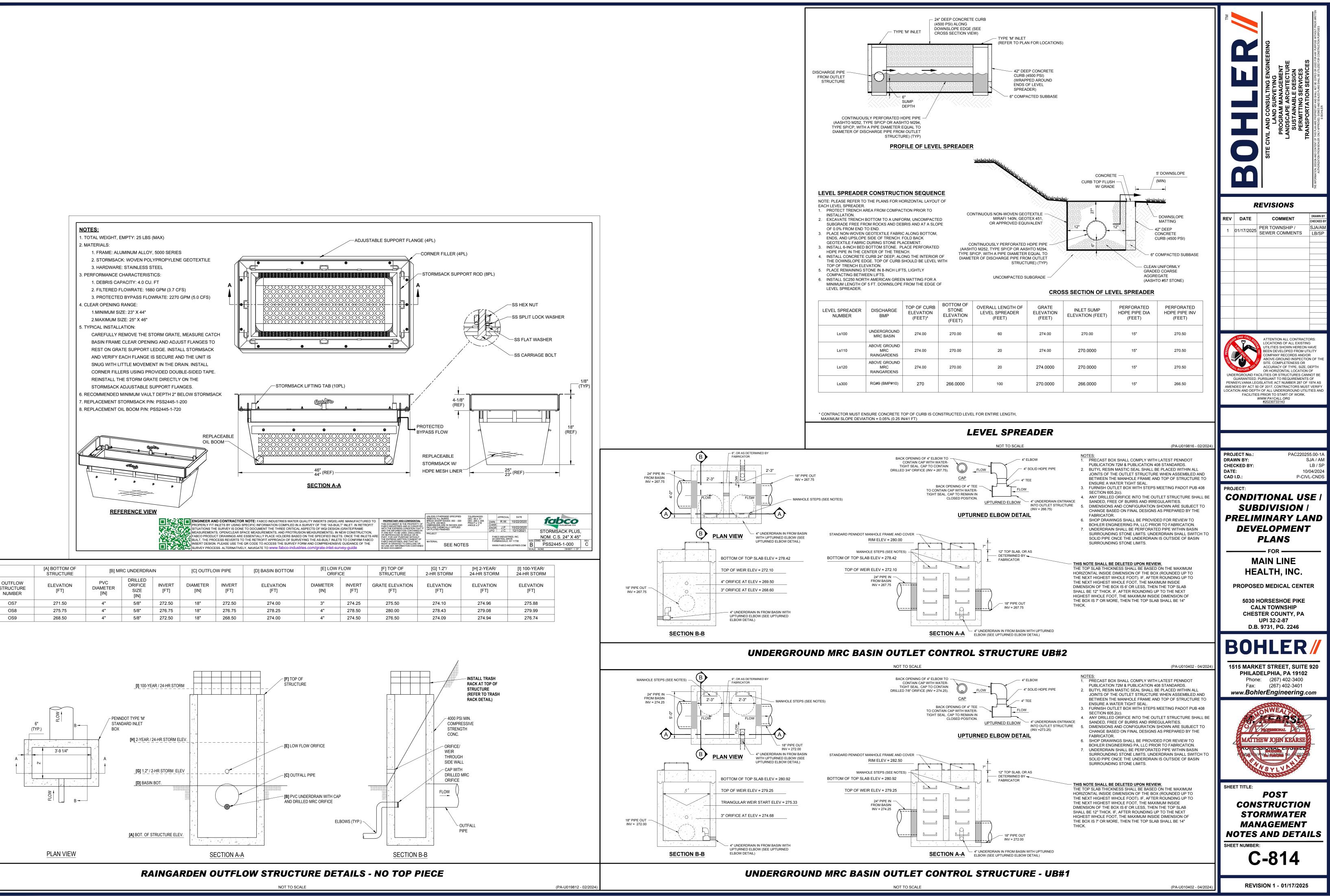


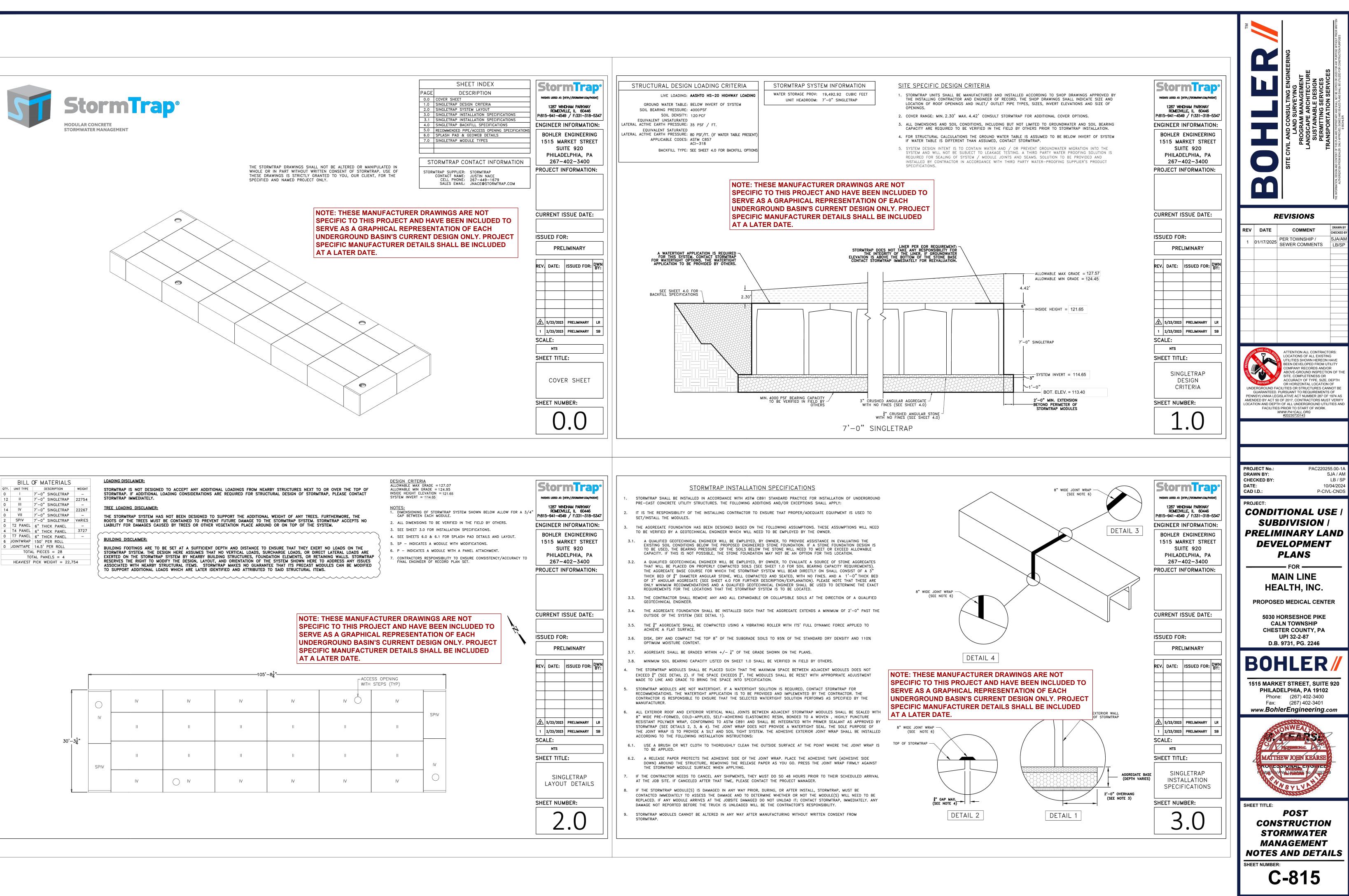


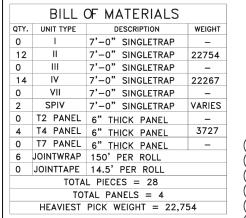
(PA-U019812 - 02/2024)



F		I	1			1		Γ			Γ	I
		[A] BOTTOM OF STRUCTURE	[B] MF	RC UNDERDRA	IN	[C] OUTFLC	W PIPE	[D] BASIN BOTTOM	E] LOW F ORIFI		[F] TOP OF STRUCTURE	[2-H
	OUTFLOW STRUCTURE NUMBER	ELEVATION [FT]	PVC DIAMETER [IN]	DRILLED ORIFICE SIZE [IN]	INVERT [FT]	DIAMETER [IN]	INVERT [FT]	ELEVATION [FT]	DIAMETER [IN]	INVERT [FT]	GRATE ELEVATION [FT]	ELI
	OS7	271.50	4"	5/8"	272.50	18"	272.50	274.00	3"	274.25	275.50	:
	OS8	275.75	4"	5/8"	276.75	18"	276.75	278.25	4"	278.50	280.00	
	OS9	268.50	4"	5/8"	272.50	18"	268.50	274.00	4"	274.50	276.50	

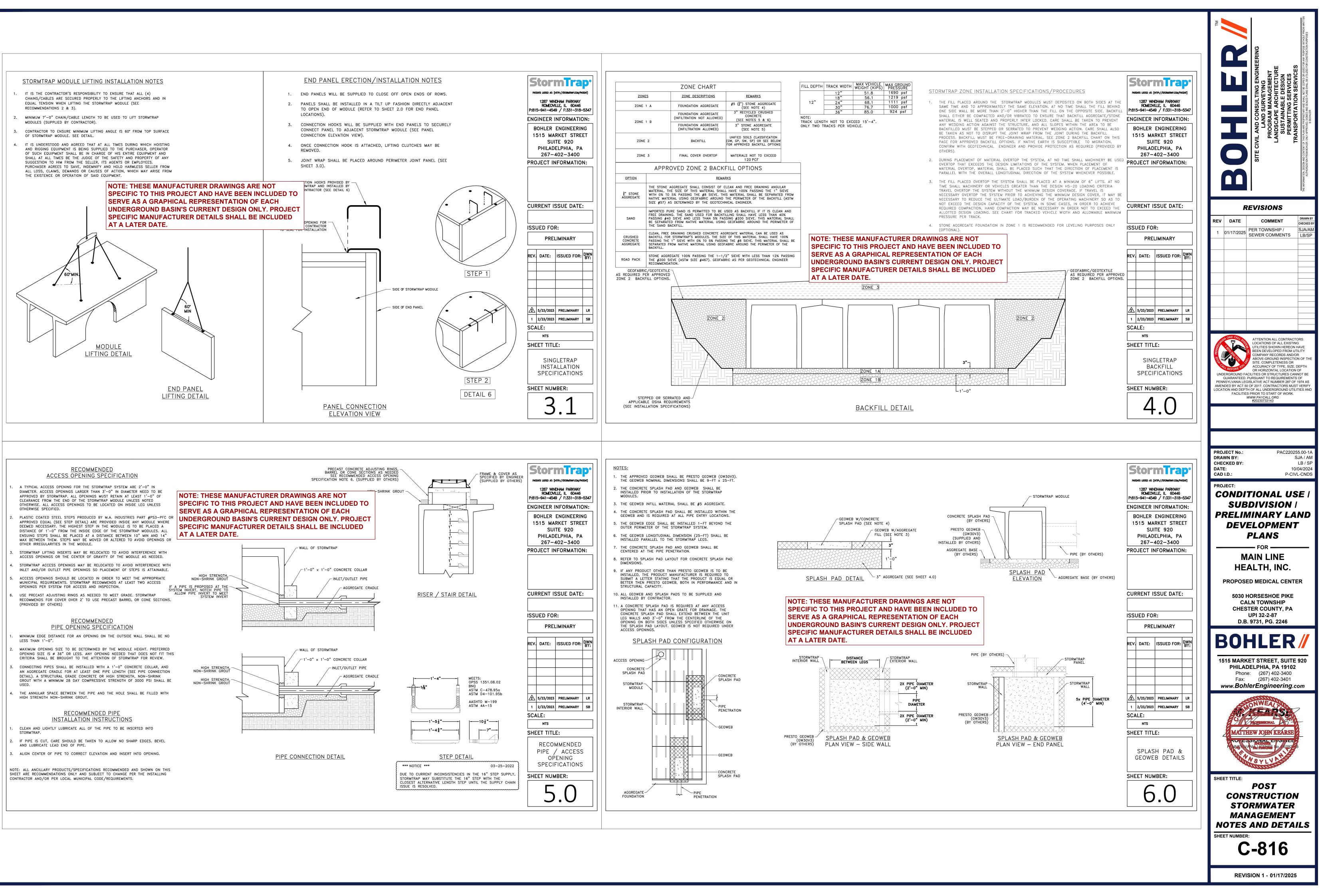


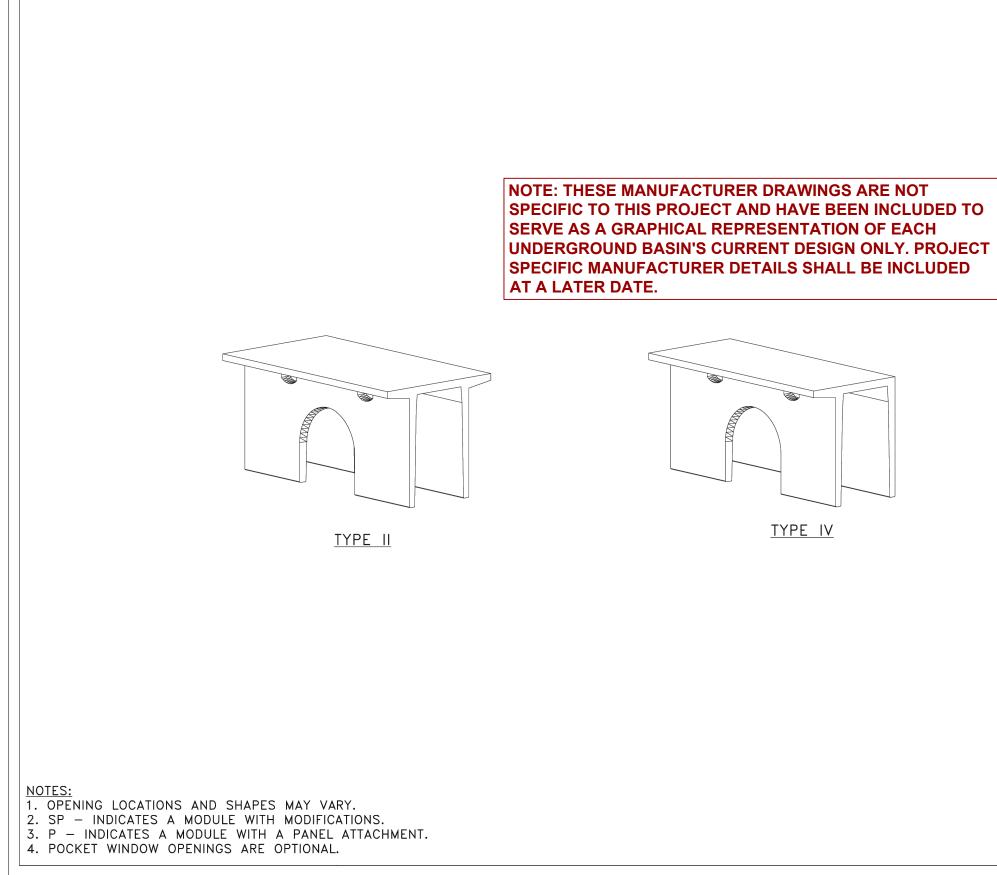


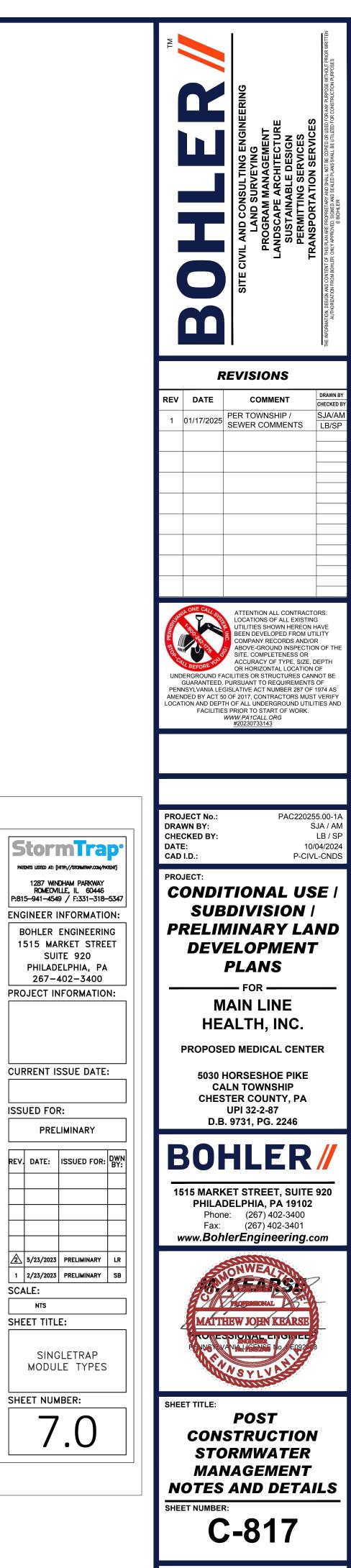


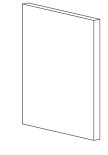
	ED TO ACCEPT ANY ADDITIONA LOADING CONSIDERATIONS AR			
STORMTRAP. IF ADDITIONAL STORMTRAP IMMEDIATELY.	LUADING CONSIDERATIONS AR	E REQUIRED FOR STRUCTUR	AL DESIGN OF STORMINAP	, FLEASE CONTACT

				105'	-84"	– ACCE WITH	ESS OPENING STEPS (TYP)	
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zo' z ¹ "	IV	11	11	11	11	11	11	SPIV
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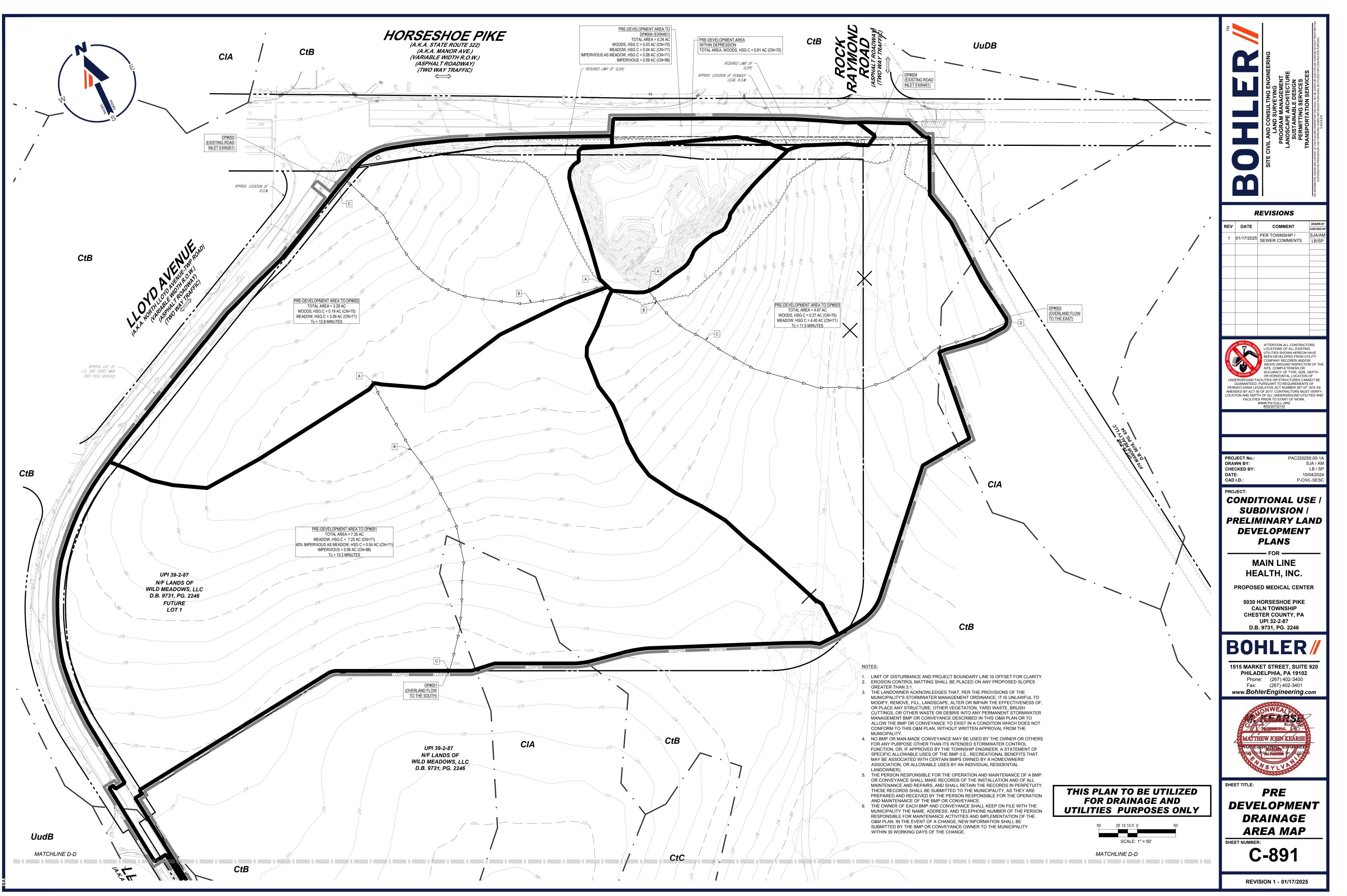


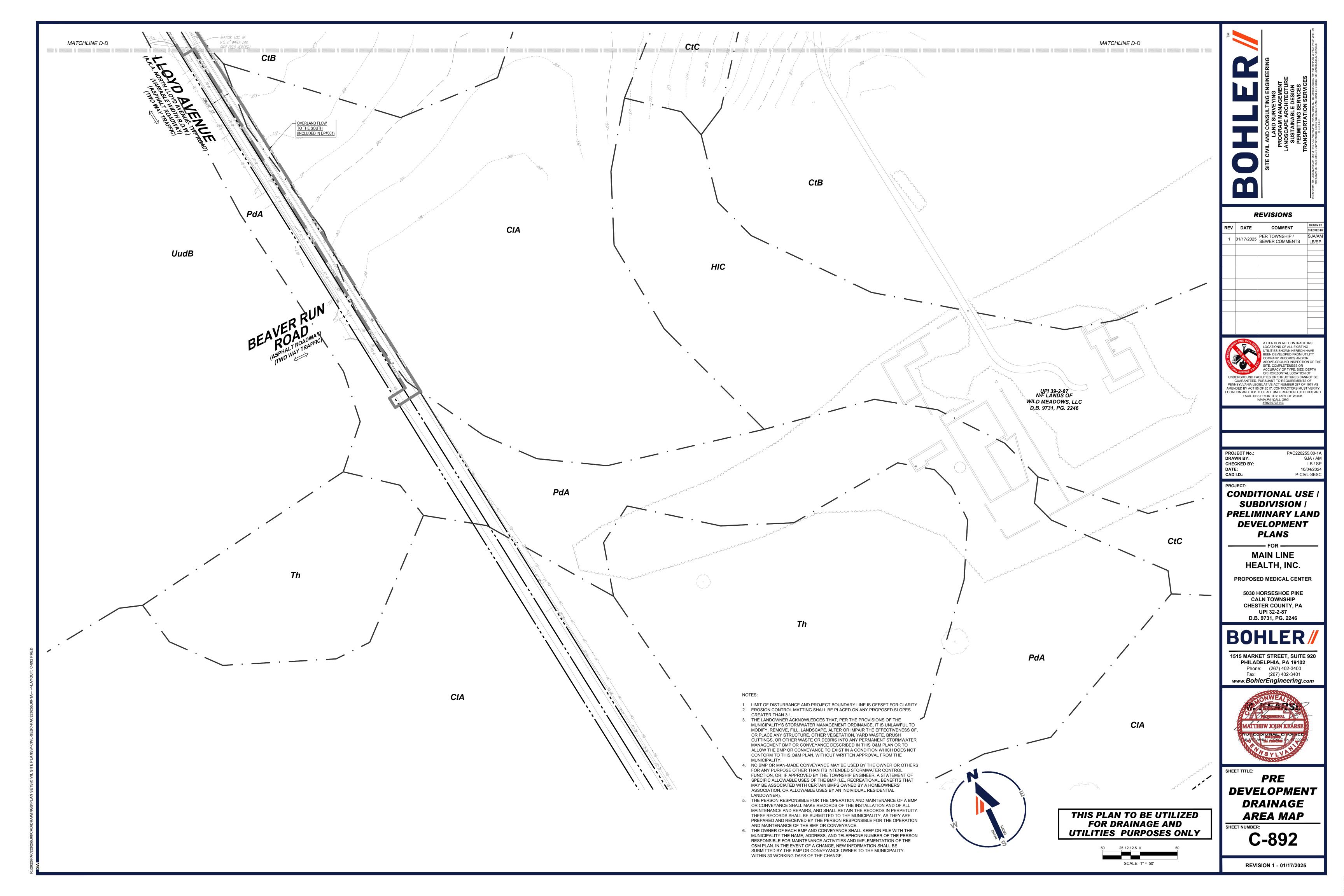


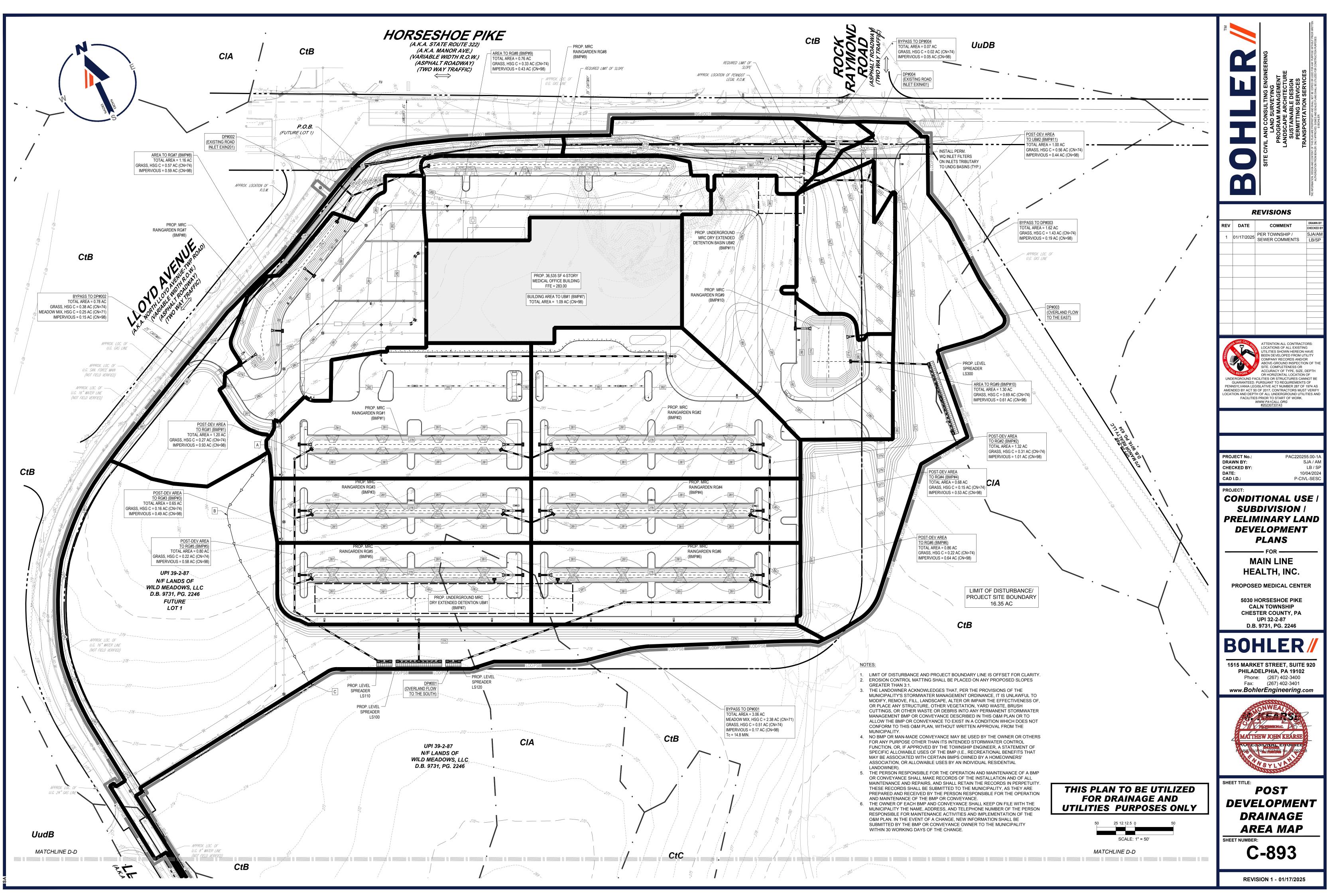


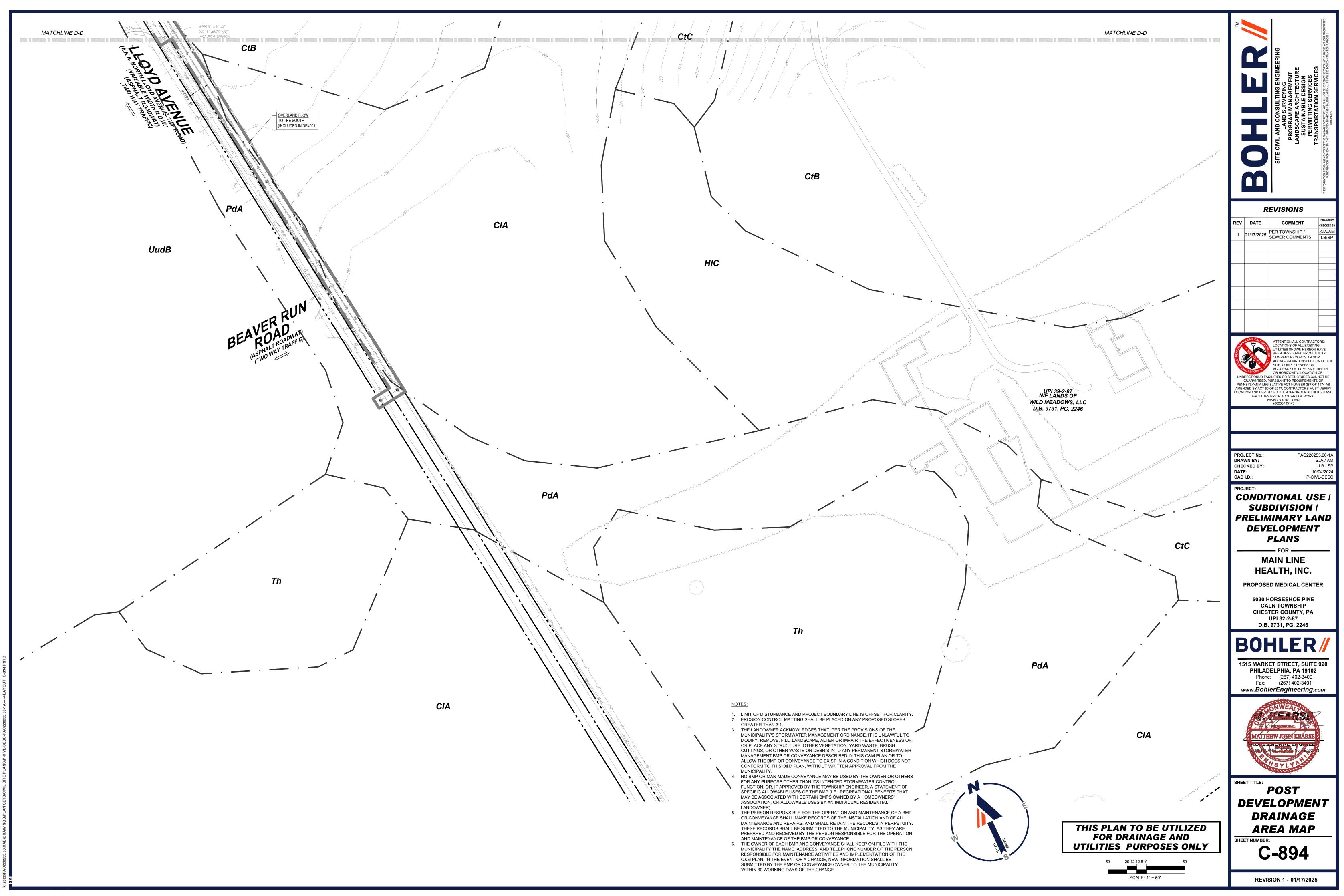


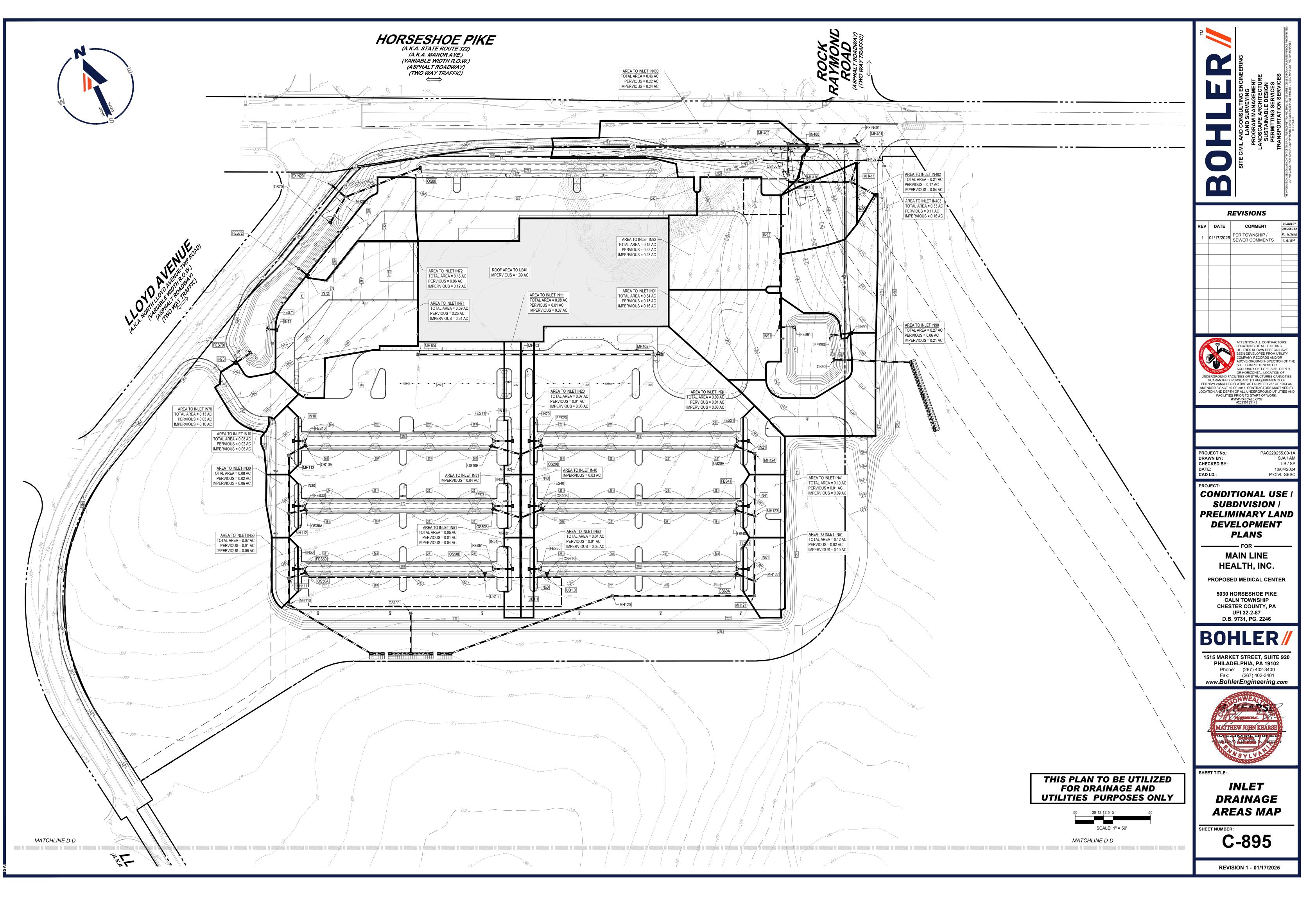
<u>TYPE IV</u> END PANEL

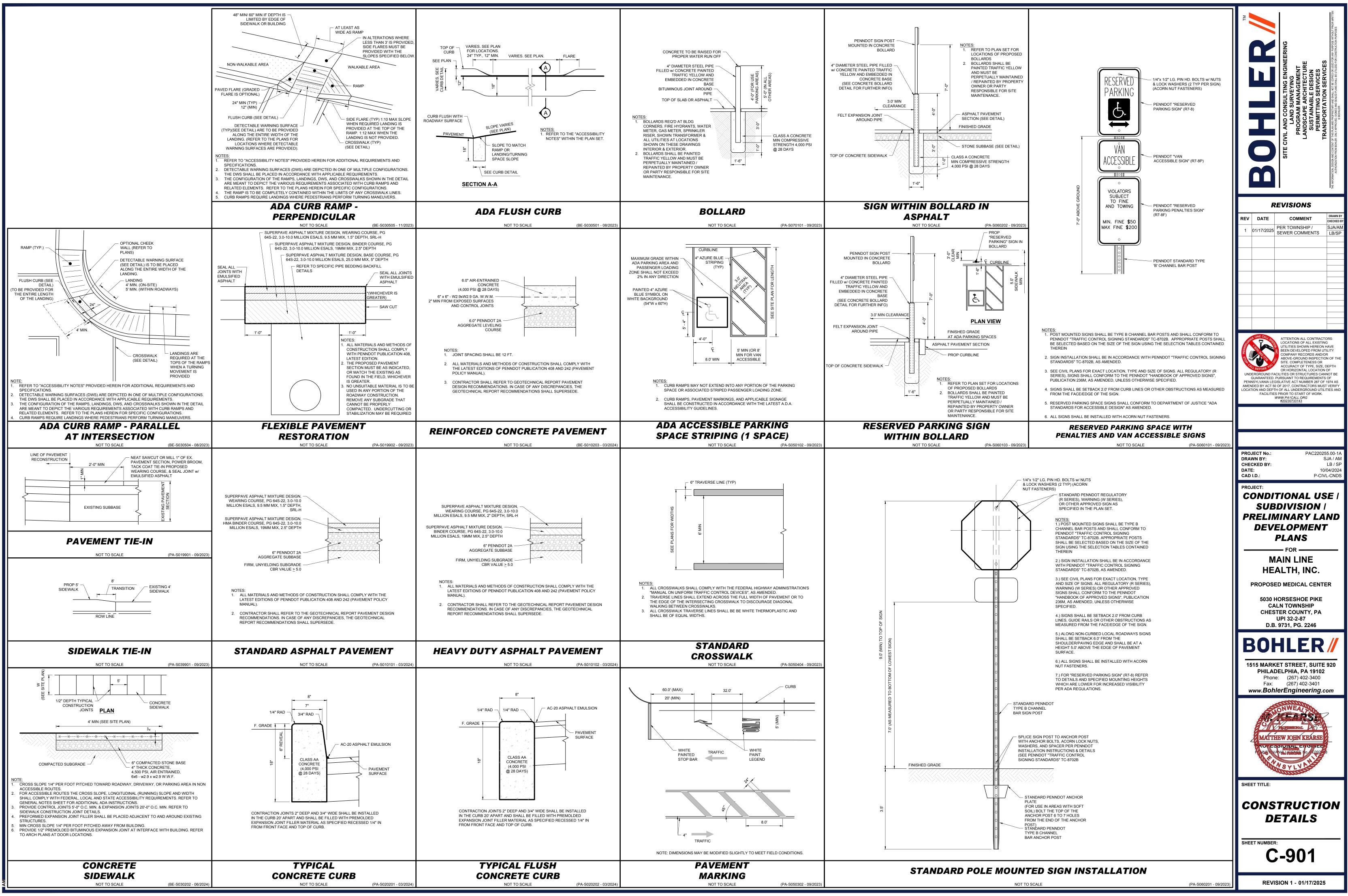












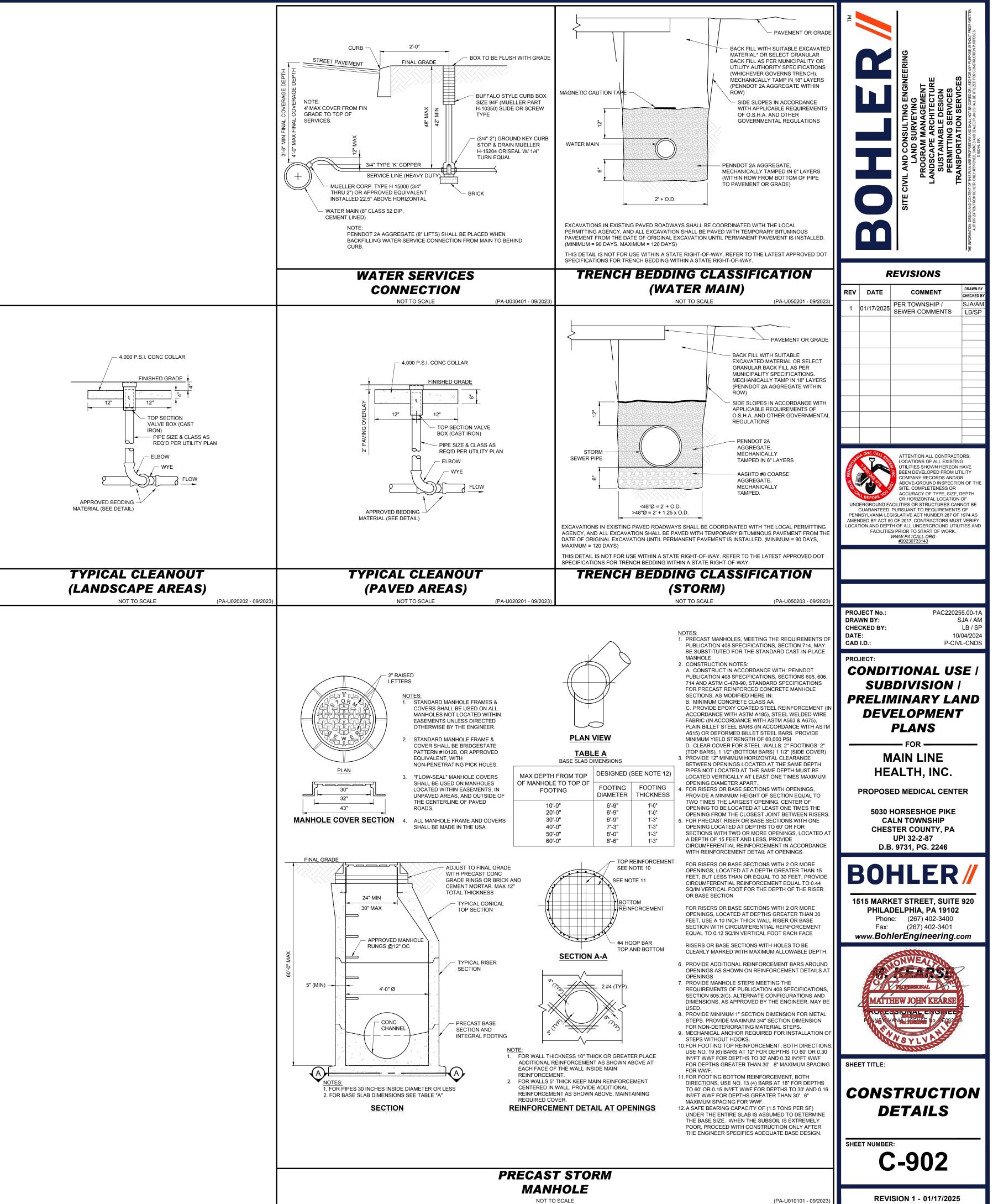
ENG.NETISHARES\PA-PROJECTS\2022\PAC220255.00\CAD\DRAWINGS\PLAN SETS\CIVIL SITE PLANS\P-CIVL-CNDS-PAC220255.00-1A----->LAYOUT: C-

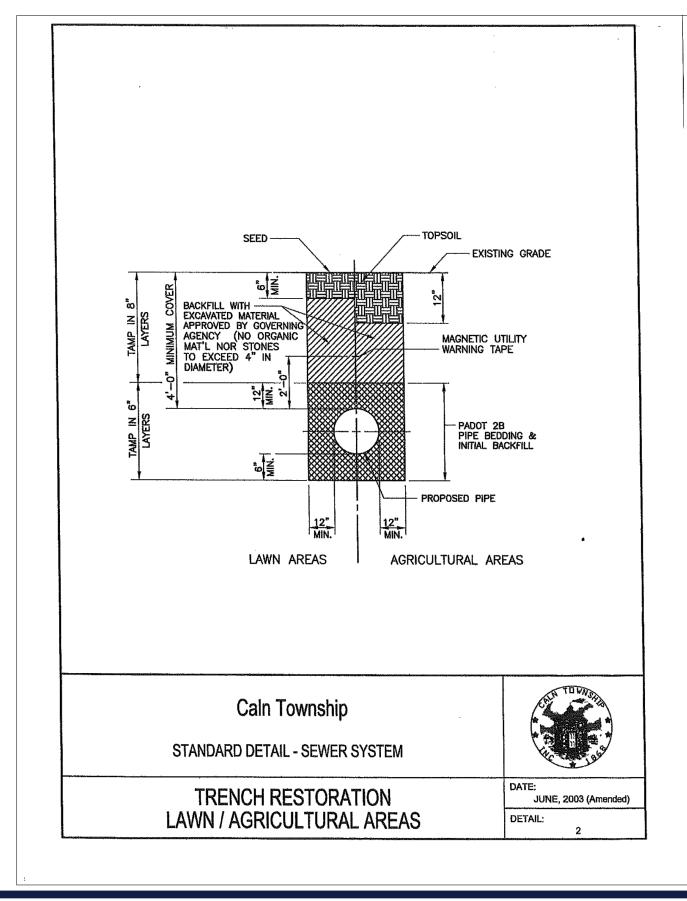
LIST OF APPLICABLE PENNDOT **DETAILS & STANDARDS**

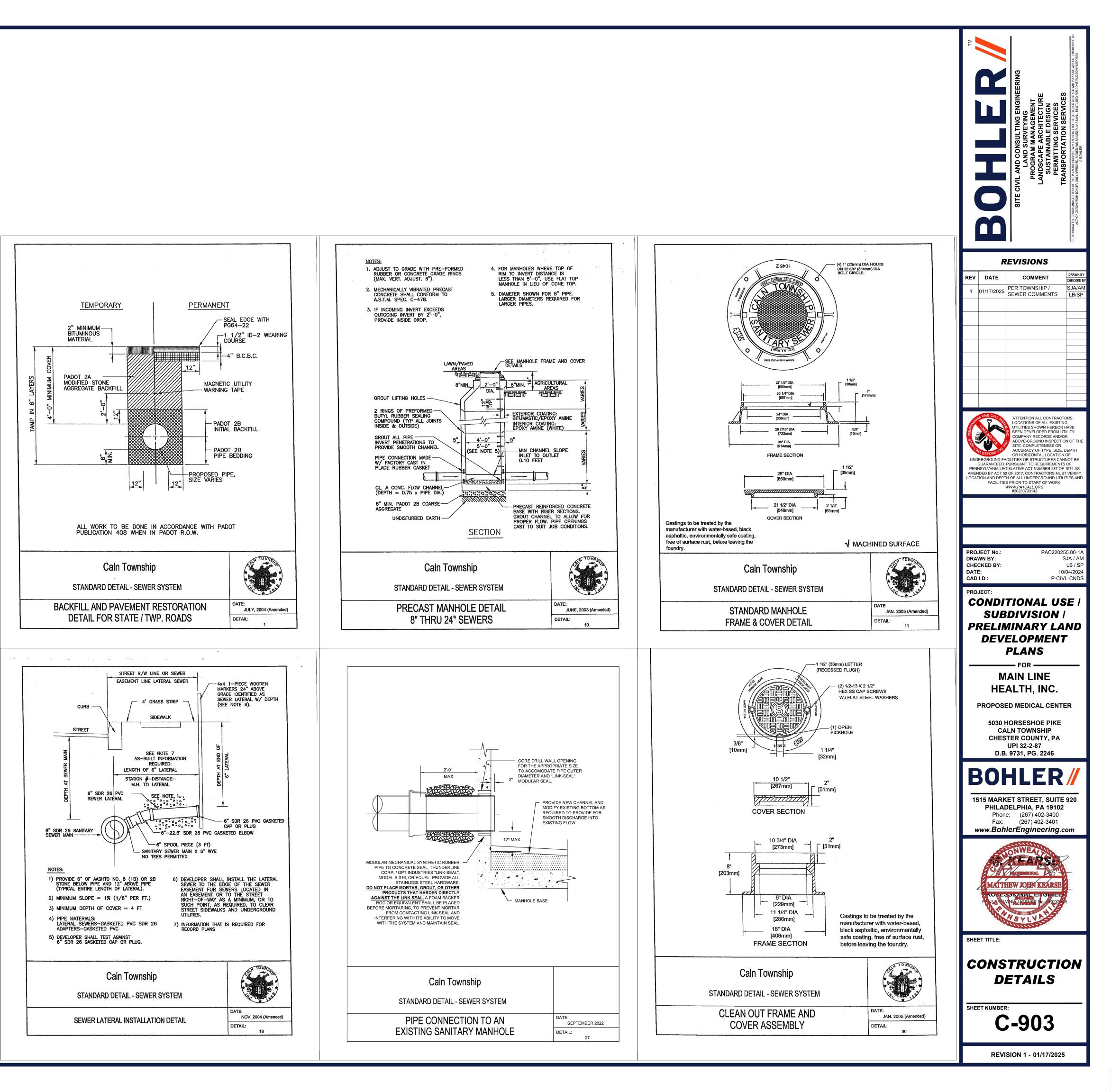
ALL PAVEMENT MARKINGS SHOULD BE IN ACCORDANCE WITH PENNDOT PUBLICATION 111, TC-8600 & TC-8700 STANDARDS, LATEST EDITION. SIGNAGE: PENNDOT PUBLICATION 236 "STOP" SIGN - R1-1 (24" x 24") "NO LEFT TURN" SIGN - R3-2 (24" x 24") "CENTER LANE - LEFT TURN - ONLY" SIGN - R3-9B (24" x 36") "BEGIN" SIGN - R3-9CP (24" x 12") "KEEP RIGHT" SIGN - R4-7 (12" x 18") "DO NOT ENTER" SIGN - R5-1 (30" x 30") VERTICAL "ONE WAY" LEFT SIGN - R6-2L (18" x 24") VERTICAL "ONE WAY" RIGHT SIGN - R6-2R (18" x 24") NO PARKING SYMBOL SIGN - R8-3 (24" x 24") PEDESTRIAN SIGN - W11-2 (30" x 30" W/ FLUORESCENT YELLOW-GREEN BACKGROUND) DOWNWARD POINTING ARROW SIGN - W16-7P (24" x 12" W/ FLUORESCENT YELLOW-GREEN BACKGROUND) OBJECT MARKER - OM1-3 (18" x 18")

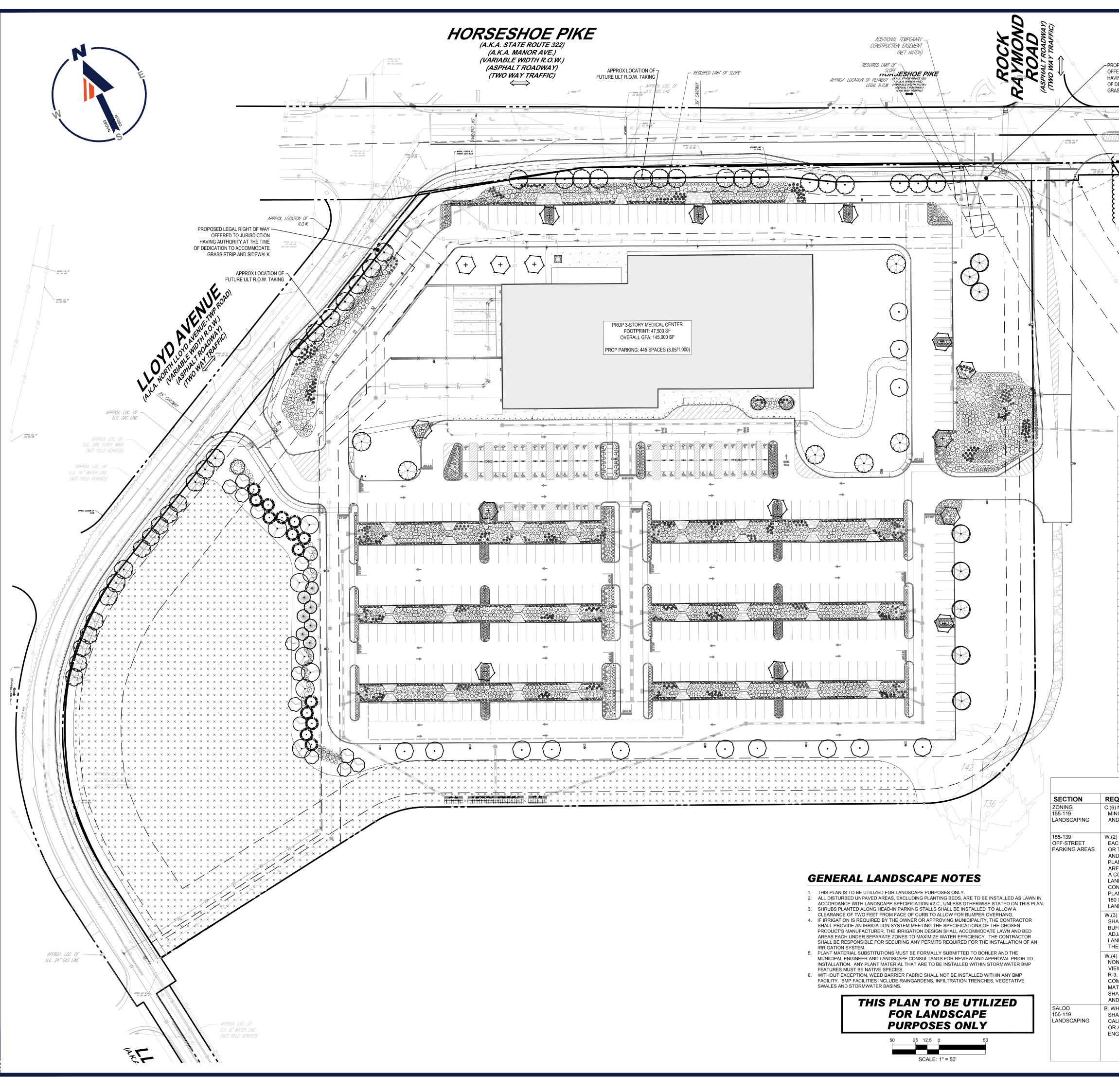
ADDITIONAL DETAILS ASSOCIATED WITH PENNDOT ROAD IMPROVEMENTS ARE ON THE FOLLOWING STANDARD DETAILS FROM THE LATEST EDITION OF PENNDOT PUBLICATION 72M: (THE PERMITTEE IS REQUIRED TO PROVIDE THE CONTRACTOR WITH COPIES OF THE MOST CURRENT APPLICABLE RC DRAWINGS)

STANDARD DRAWING NUMBER	DRAWING NAME
RC - 26M	CONCRETE PAVEMENT REHABILITATION
RC - 28M	OVERLAY TRANSITIONS AND PAVING NOTCHES
RC - 30M	SUBSURFACE DRAINS
RC - 33M	END SECTIONS FOR PIPE CULVERTS
RC - 38M	SANITARY SEWER MANHOLES
RC - 39M	STORMWATER MANHOLES
RC - 45M	INLET TOPS, GRATES AND FRAMES
RC - 46M	INLET BOXES
RC - 64M	CURBS AND GUTTERS
RC - 65M	CONCRETE MOUNTABLE CURBS
RC - 67M	CURB RAMPS AND SIDEWALKS









2. PAC220255.00 (CADIDRAWINGSIPLAN SETSICIVIL SITE PLANSIP-CIVL-ILGT-PAC220255.00-1A----->LAYOUT: L-101 LSCP-

							M	SITE CIVIL AND CONSULTING ENGINEERING LAND SURVEYING PROGRAM MANAGEMENT LANDSCAPE ARCHITECTURE SUSTAINABLE DESIGN PERMITTING SERVICES TRANSPORTATION SERVICES IRANSPORTATION SERVICES INFORMATION DESIGN AND CONTENT ONLY APPROVED, SURVEY AND SHALL BE UTILIZED FOR CONSTRUCTION PURPOSE MIDIORIZATION FROM BOHLER. ONLY APPROVED, SURVEY AND SHALL BE UTILIZED FOR CONSTRUCTION PURPOSE BOHLER.
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FFERED TO JUF AVING AUTHOR F DEDICATION	RISDICTION RITY AT THE TO ACCOMN	TIME //ODATE						ENGINEERING G MENT CTURE CTURE IGN CES RVICES PPED OR USED FOR ANY PURPOS L BEUTILIZED FOR CONSTRUCTION
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	GOD	/ ¹ / / 50' W	& RIGHT-OI DE COLUMBI MISSION PFR	4 GAS				
, \			ENT & RIGH					
\backslash							CALL SA	ATTENTION ALL CONTRACTORS:
PLA	NT S	CHEDULE						LOCATIONS OF ALL EXISTING UTILITIES SHOWN HEREON HAVE BEEN DEVELOPED FROM UTILITY COMPANY RECORDS AND/OR ABOVE-GROUND INSPECTION OF THE
CODE CANOPY		BOTANICAL NAME		COMMON NAME	SIZE	CONTAINER	GUARANTEED. F	SITE. COMPLETENESS OR ACCURACY OF TYPE, SIZE, DEPTH OR HORIZONTAL LOCATION OF CILITIES OR STRUCTURES CANNOT BE PURSUANT TO REQUIREMENTS OF
AROG ASGM GP GTIK	13 6 13 16	ACER RUBRUM `OCTOBER GLORY` ACER SACCHARUM `GREEN MOUNTAIN` GINKGO BILOBA 'PRINCETON SENTRY' GLEDITSIA TRIACANTHOS INERMIS `SKYCOI	E,	OCTOBER GLORY RED MAPLE GREEN MOUNTAIN SUGAR MAPLE PRINCETON SENTRY MAIDENHAIR TREE SKYLINE THORNLESS HONEY LOCUST	3" CAL. 3" CAL. 3" CAL. 3" CAL.	B&B B&B B&B B&B	AMENDED BY ACT 50 LOCATION AND DEPTH FACILITIES	ISLATIVE ACT NUMBER 287 OF 1974 AS OF 2017, CONTRACTORS MUST VERIFY 4 OF ALL UNDERGROUND UTILITIES AND PRIOR TO START OF WORK. WW.PA1CALL.ORG
LSR LT NS	16 10 7 5	LIQUIDAMBAR STYRACIFLUA 'ROTUNDILOB/ LIRIODENDRON TULIPIFERA NYSSA SYLVATICA		ROUND-LOBED SEEDLESS SWEET GUM TULIP TREE SOUR GUM	3" CAL. 2.5" CAL. 3" CAL.	B&B B&B B&B		<u>#20230733143</u>
OV QPH	16 3	OSTRYA VIRGINIANA QUERCUS PHELLOS		AMERICAN HOPHORNBEAM WILLOW OAK	3" CAL. 3" CAL.	B&B B&B	<u> </u>	
EVERGRI PIAB PM	EEN TREE 14 7	ES PICEA ABIES PSEUDOTSUGA MENZIESII		NORWAY SPRUCE DOUGLAS FIR	6-8` 6-8`	B&B B&B	PROJECT No.:	PAC220255.00-1A
ORNAME AG CC	NTAL TRE	EES AMELANCHIER X GRANDIFLORA 'AUTUMN B CERCIS CANADENSIS	RILLIANCE'	AUTUMN BRILLIANCE APPLE SERVICEBERRY EASTERN REDBUD	2-2 1/2" CAL. 2-2 1/2" CAL.	B&B B&B	DRAWN BY: CHECKED BY: DATE: CAD I.D.:	SJA / AM LB / SP 10/04/2024 P-CIVL-LLGT
SHRUBS AAB	17	ARONIA ARBUTIFOLIA 'BRILLIANTISSIMA'		BRILLIANT RED CHOKEBERRY	3-4`	B&B		TIONAL USE /
CA CAH CS CSK	173 234 191 206	CLETHRA ALNIFOLIA CLETHRA ALNIFOLIA 'HUMMINGBIRD' CORNUS SERICEA CORNUS SERICEA 'KELSEYI'		SUMMERSWEET CLETHRA HUMMINGBIRD SUMMERSWEET (DWARF) RED TWIG DOGWOOD KELSEYI DOGWOOD	24-30" 24-30" 2-3` 15-18"	CONTAINER CONTAINER B&B CONTAINER	SUB	DIVISION
DGN HQSQ IGC	200 180 40 57	DEUTZIA GRACILIS 'NIKKO' HYDRANGEA QUERCIFOLIA 'SNOW QUEEN' ILEX GLABRA 'COMPACTA'		SLENDER DEUTZIA SNOW QUEEN OAKLEAF HYDRANGEA COMPACT INKBERRY	18-24" 24-30" 24-30"	CONTAINER CONTAINER CONTAINER CONTAINER		IINARY LAND ELOPMENT
IGS IV IVJD	90	ILEX GLABRA `SHAMROCK` ITEA VIRGINICA `HENRY'S GARNET` ILEX VERTICILLATA `JIM DANDY`		SHAMROCK INKBERRY HENRY'S GARNET SWEETSPIRE JIM DANDY WINTERBERRY	24-30" 24-30" 30-36"	CONTAINER CONTAINER CONTAINER		PLANS
IVRS IVWR	138 183	ILEX VERTICILLATA 'RED SPRITE' ILEX VERTICILLATA 'WINTER RED'		RED SPRITE WINTERBERRY WINTER RED WINTERBERRY	18-24" 30-36"	CONTAINER CONTAINER	M	
JHIB KLE LB	304 49 90	JUNIPERUS HORIZONTALIS `MONBER` KALMIA LATIFOLIA `ELF` LINDERA BENZOIN		ICEE BLUE JUNIPER DWARF MOUNTAIN LAUREL SPICEBUSH	15-18" SPRD 24-30" 30-36"	CONTAINER B&B CONTAINER		ALTH, INC.
MP RAG RM VC	218 246 19 8	MYRICA PENSYLVANICA RHUS AROMATICA `GRO-LOW` RHODODENDRON MAXIMUM		NORTHERN BAYBERRY GRO-LOW FRAGRANT SUMAC ROSE BAY RHODODENDRON	30-36" 15-18" 4-5` 30-36"	B&B CONTAINER B&B CONTAINER		D MEDICAL CENTER
VC VDC VR	8 112 123	VACCINIUM CORYMBOSUM VIBURNUM DENTATUM 'CHRISTOM' VIBURNUM RHYTIDOPHYLLUM		HIGHBUSH BLUEBERRY BLUE MUFFIN VIBURNUM LEATHERLEAF VIBURNUM	30-36" 3-4` 3-4`	CONTAINER B&B B&B	CA CHES	LN TOWNSHIP TER COUNTY, PA UPI 32-2-87
GRASSES CPE PVN		CAREX PENSYLVANICA PANICUM VIRGATUM 'NORTH WIND'		PENNSYLVANIA SEDGE NORTHWIND SWITCH GRASS	1 GAL. 1 GAL.	CONTAINER CONTAINER	D.B.	9731, PG. 2246
		ANDSCAPE COM					BOP	ILER //
NINIMUM OF "	DENTIAL D THREE SE	DEVELOPMENTS SHALL PROVIDE A	TOTAL S REQUIRE	ILATIONS (REQUIRED / PROVID TE AREA = 14.286 AC. D: 14.286 x 3 = 42.85 OR 43 TREES	,	COMPLIANCE		ET STREET, SUITE 920 ELPHIA, PA 19102 e: (267) 402-3400
(2) RAISED P	PLANTER I	REES PER GROSS ACRE.	(43 TRE RAISED F	PLANTER ISLANDS HAVE BEEN PROPOS	SED AT		Fax:	(267) 402-3400 (267) 402-3401 erEngineering.com
OR TERMINAT	TES AT AN EACH ROV	OF PARKING SPACES WHICH BEGINS I INTERNAL CIRCULATION DRIVE V OF PARKING SPACES. THE RAISED ALL BE PLACED SO THAT THERE	PLANTIN	ND AND WITHIN EACH ROW OF PARKIN G ISLANDS HAVE BEEN PLANTED WITH CAPE MATERIALS.		COMPLIES	SUMMIT EA	NSYLVA
CONTINUOL ANDSCAPED	JS ROW W	15 OFF-STREET PARKING SPACES IN VITHOUT AN INTERVENING R ISLAND. RAISED CONTINUOUS SHALL BE REQUIRED AROUND EACH						Jui no
LANTING ISL	AND EAC	H SUCH ISLAND SHALL BE AT LEAST IZE AND PLANTED WITH SUITABLE						LANDBOAPE ARCHIECT
SHÁLL BE SUI BUFFER OR T	ITABLY LA O ENHAN	F THE OFF-STREET PARKING AREA NDSCAPED TO PROVIDE A VISUAL CE THE AESTHETICS OF THE AREA -STREET PARKING AREA THE		IMETER OF THE PARKING AREAS HAVE LY LANDSCAPED.	BEEN	COMPLIES	I LINGT UN	LANDSCAPE ARTINITY
ANDSCAPING	G MATERIA NTAINED V	F-STREET PARKING AREA. THE ALS SHALL BE SELECTED FROM WITHIN § 155-119 OF THIS CHAPTER. EQUIRED TO ACCOMMODATE	PARKING	AREAS HAVE BEEN SCREENED FROM			SHEET TITLE:	saunnaa.
IONRESIDEN /IEW OF RES R-3, R-4 AND I	ITIAL USES IDENTIAL R-5 DISTR	S SHALL BE SCREENED FROM THE USES LOCATED WITH THE R-1, R-2, ICTS. THE SCREENING SHALL BE		AREAS HAVE BEEN SCREENED FROM NTIAL USES.		COMPLIES		/ERALL
ATERIALS O	F AT LEAS	CE, WALL AND/OR LANDSCAPING ST FOUR FEET IN HEIGHT WHICH O OBSTRUCT HEADLIGHT GLARE V OF THE PARKED CARS.						IDSCAPE PLAN
WHERE REQ HADE TREES ALIPER OF T	UIRED BY S SHALL B THREE INC	THIS CHAPTER OR CHAPTER 155, BE PLANTED WITH A MINIMUM CHES AT FORTY-FOOT INTERVALS,	REQUIRE	ENGTH ALONG HORSESHOE PIKE = 635 ED = 635 / 40 = 15.8 OR 16 TREES ED = 16 OV (16 TREES)	±LF	COMPLIES	SHEET NUMBER	
OR AS OTHEF ENGINEER.	RWISE SPE	ECIFIED BY THE TOWNSHIP	REQUIRE	ENGTH ALONG LLOYD AVE =890 ± LF D = 890 / 40 = 22.25 OR 23 TREES		COMPLIES	╏┖	-101
			PROVIDE	D = 13 AROG, 10 LSR (23 TREES)			REVIS	SION 1 - 01/17/2025
							-	



GENERAL LANDSCAPE NOTES

- THIS PLAN IS TO BE UTILIZED FOR LANDSCAPE PURPOSES ONLY. ALL DISTURBED UNPAVED AREAS, EXCLUDING PLANTING BEDS, ARE TO BE INSTALLED AS LAWN IN ACCORDANCE WITH LANDSCAPE SPECIFICATION #2.C., UNLESS OTHERWISE STATED ON THIS PLAN. SHRUBS PLANTED ALONG HEAD-IN PARKING STALLS SHALL BE INSTALLED TO ALLOW A
- CLEARANCE OF TWO FEET FROM FACE OF CURB TO ALLOW FOR BUMPER OVERHANG. IF IRRIGATION IS REQUIRED BY THE OWNER OR APPROVING MUNICIPALITY, THE CONTRACTOR SHALL PROVIDE AN IRRIGATION SYSTEM MEETING THE SPECIFICATIONS OF THE CHOSEN PRODUCT'S MANUFACTURER. THE IRRIGATION DESIGN SHALL ACCOMMODATE LAWN AND BED AREAS EACH UNDER SEPARATE ZONES TO MAXIMIZE WATER EFFICIENCY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ANY PERMITS REQUIRED FOR THE INSTALLATION OF AN
- IRRIGATION SYSTEM. PLANT MATERIAL SUBSTITUTIONS MUST BE FORMALLY SUBMITTED TO BOHLER AND THE MUNICIPAL ENGINEER AND LANDSCAPE CONSULTANTS FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION. ANY PLANT MATERIAL THAT ARE TO BE INSTALLED WITHIN STORMWATER BMP
- FEATURES MUST BE NATIVE SPECIES. WITHOUT EXCEPTION, WEED BARRIER FABRIC SHALL NOT BE INSTALLED WITHIN ANY BMP FACILITY. BMP FACILITIES INCLUDE RAINGARDENS, INFILTRATION TRENCHES, VEGETATIVE SWALES AND STORMWATER BASINS.

PLANT SCHEDULE

CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	
CANOPY	TREES					
AROG	13	ACER RUBRUM `OCTOBER GLORY`	OCTOBER GLORY RED MAPLE	3" CAL.	B&B	-
ASGM	6	ACER SACCHARUM 'GREEN MOUNTAIN'	GREEN MOUNTAIN SUGAR MAPLE	3" CAL.	B&B	
GP	13	GINKGO BILOBA 'PRINCETON SENTRY'	PRINCETON SENTRY MAIDENHAIR TREE	3" CAL.	B&B	·
GTIK	16	GLEDITSIA TRIACANTHOS INERMIS `SKYCOLE`	SKYLINE THORNLESS HONEY LOCUST	3" CAL.	B&B	1
LSR	10	LIQUIDAMBAR STYRACIFLUA 'ROTUNDILOBA'	ROUND-LOBED SEEDLESS SWEET GUM	3" CAL.	B&B	
LT	7	LIRIODENDRON TULIPIFERA	TULIP TREE	2.5" CAL.	B&B	
NS	5	NYSSA SYLVATICA	SOUR GUM	3" CAL.	B&B	
OV	16	OSTRYA VIRGINIANA	AMERICAN HOPHORNBEAM	3" CAL.	B&B	
QPH	3	QUERCUS PHELLOS	WILLOW OAK	3" CAL.	B&B	
EVERGRE		ES				
PIAB	14		NORWAY SPRUCE	6-8`	B&B	
PM	7	PSEUDOTSUGA MENZIESII	DOUGLAS FIR	6-8`	B&B	-
ORNAME						76
AG	10	AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE'	AUTUMN BRILLIANCE APPLE SERVICEBERRY		B&B	
CC	8	CERCIS CANADENSIS	EASTERN REDBUD	2-2 1/2" CAL.	B&B	
SHRUBS						
AAB	17	ARONIA ARBUTIFOLIA `BRILLIANTISSIMA`	BRILLIANT RED CHOKEBERRY	3-4`	B&B	
CA	173	CLETHRA ALNIFOLIA	SUMMERSWEET CLETHRA	24-30"	CONTAINER	
CAH	234	CLETHRA ALNIFOLIA `HUMMINGBIRD`	HUMMINGBIRD SUMMERSWEET (DWARF)	24-30"	CONTAINER	
CS	191	CORNUS SERICEA	RED TWIG DOGWOOD	2-3`	B&B	
CSK	206	CORNUS SERICEA 'KELSEYI'	KELSEYI DOGWOOD	15-18"	CONTAINER	
DGN	180	DEUTZIA GRACILIS `NIKKO`	SLENDER DEUTZIA	18-24"	CONTAINER	
HQSQ	40	HYDRANGEA QUERCIFOLIA 'SNOW QUEEN'	SNOW QUEEN OAKLEAF HYDRANGEA	24-30"	CONTAINER	
IGC	57	ILEX GLABRA `COMPACTA`	COMPACT INKBERRY	24-30"	CONTAINER	
IGS	90	ILEX GLABRA `SHAMROCK`	SHAMROCK INKBERRY	24-30"	CONTAINER	
IV	180	ITEA VIRGINICA `HENRY`S GARNET`	HENRY'S GARNET SWEETSPIRE	24-30"	CONTAINER	
IVJD	51	ILEX VERTICILLATA 'JIM DANDY'	JIM DANDY WINTERBERRY	30-36"	CONTAINER	
IVRS	138	ILEX VERTICILLATA 'RED SPRITE'	RED SPRITE WINTERBERRY	18-24"	CONTAINER	K. LOCATION
IVWR	183	ILEX VERTICILLATA 'WINTER RED'	WINTER RED WINTERBERRY	30-36"	CONTAINER	
JHIB	304	JUNIPERUS HORIZONTALIS `MONBER`	ICEE BLUE JUNIPER	15-18" SPRD	CONTAINER	\neg
KLE	49	KALMIA LATIFOLIA `ELF`	DWARF MOUNTAIN LAUREL	24-30"	B&B	\neg \frown
LB	90	LINDERA BENZOIN	SPICEBUSH	30-36"	CONTAINER	
MP	218	MYRICA PENSYLVANICA	NORTHERN BAYBERRY	30-36"	B&B	1
RAG	246	RHUS AROMATICA `GRO-LOW`	GRO-LOW FRAGRANT SUMAC	15-18"	CONTAINER	
RM	19	RHODODENDRON MAXIMUM	ROSE BAY RHODODENDRON	4-5`	B&B	1
VC	8	VACCINIUM CORYMBOSUM	HIGHBUSH BLUEBERRY	30-36"	CONTAINER	7
VDC	112	VIBURNUM DENTATUM 'CHRISTOM'	BLUE MUFFIN VIBURNUM	3-4`	B&B	
VR	123	VIBURNUM RHYTIDOPHYLLUM	LEATHERLEAF VIBURNUM	3-4`	B&B	-
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CBVCCEC	2					1
GRASSES	S 185	CAREX PENSYLVANICA	PENNSYLVANIA SEDGE	1 GAL.	CONTAINER	

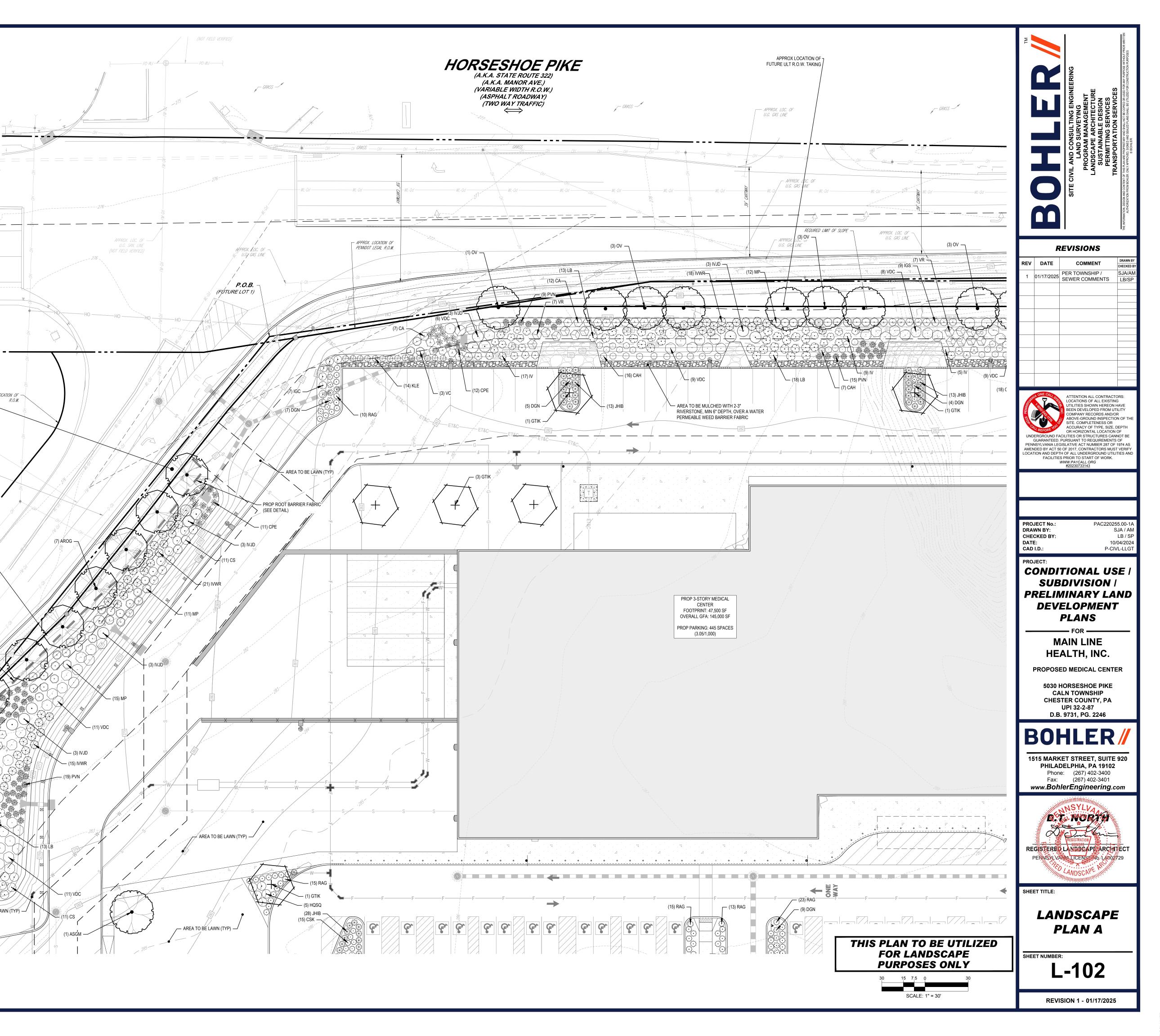
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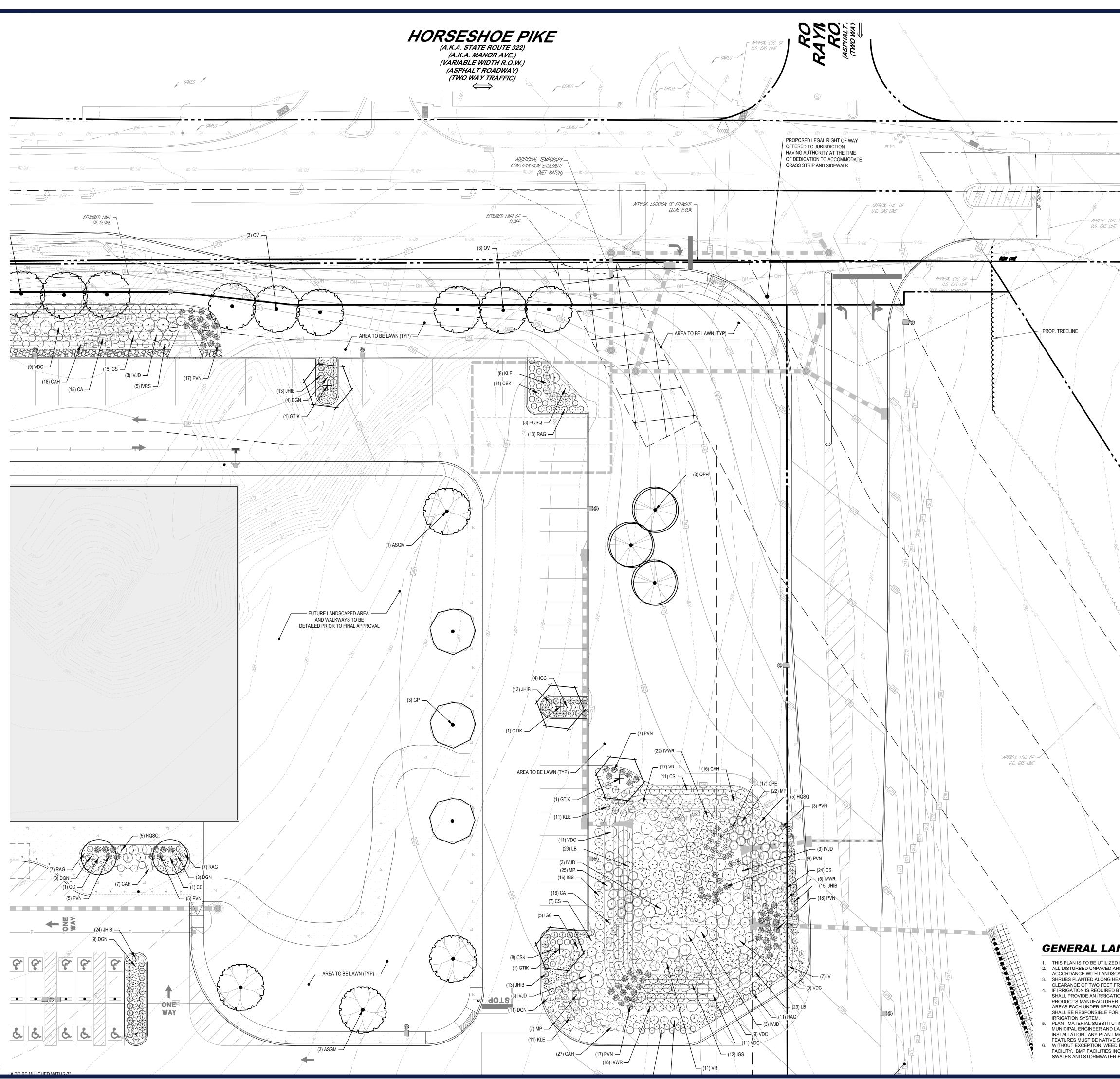
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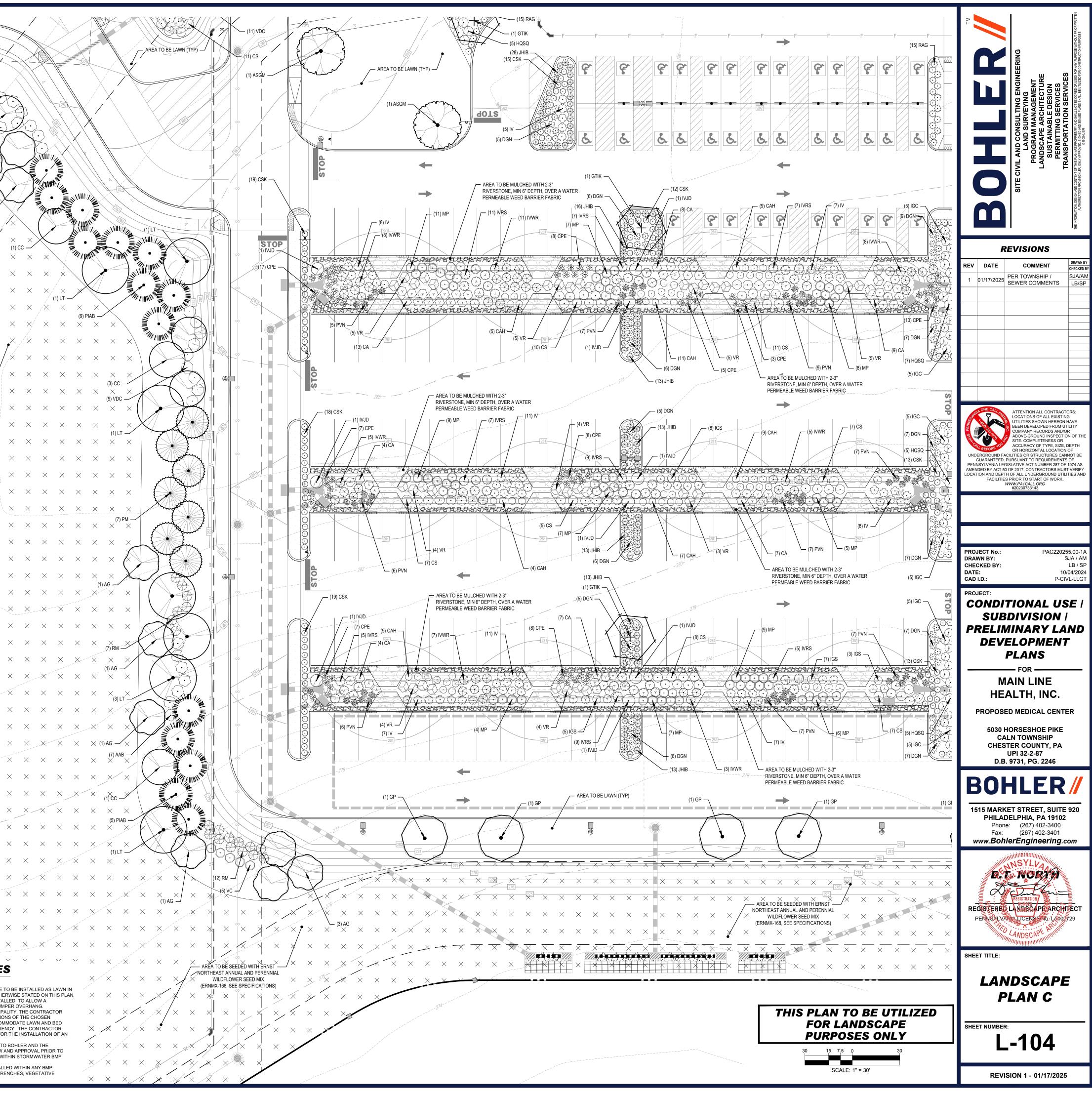
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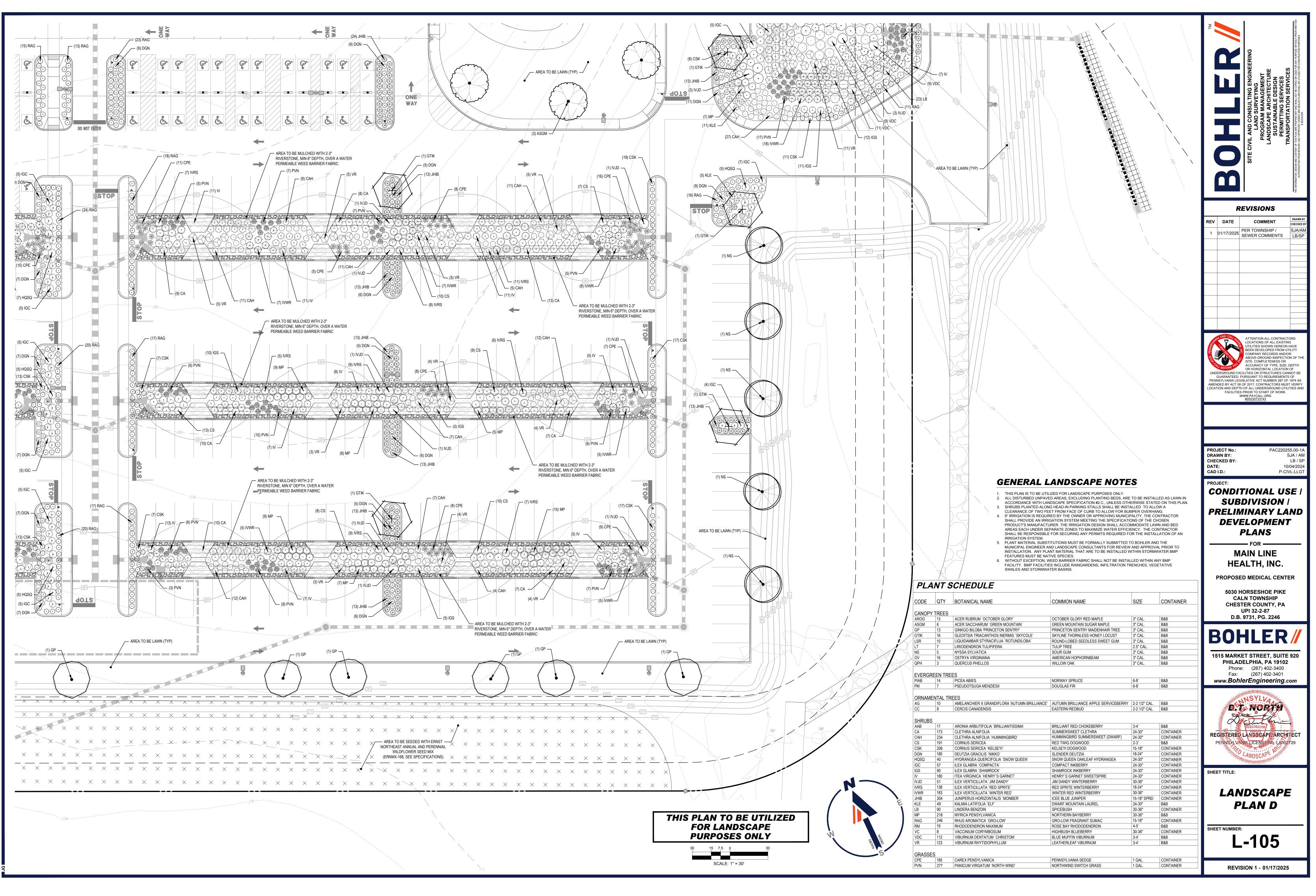


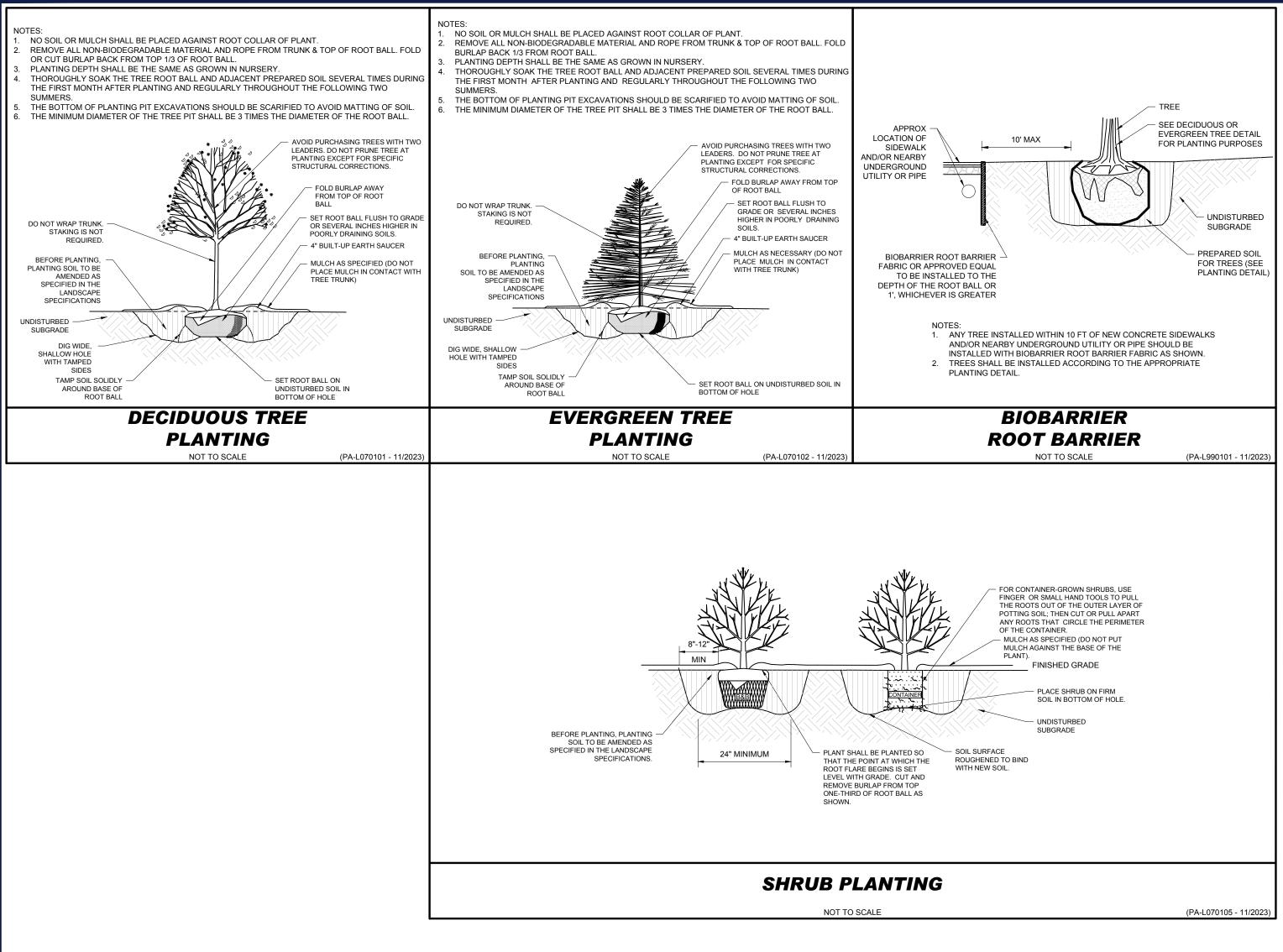


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PROP. TREELINE						REV DATE COMMENT DRAWN BY CHECKED BY 1 01/17/2025 PER TOWNSHIP / SEWER COMMENTS SJA/AM I 01/17/2025 SEWER COMMENTS LB/SP I I IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
	NOPY TREES G 13 ACER RUBF M 6 13 GINKGO BIL 16 GLEDITSIA 10 LIQUIDAMB/		COMMON NAME OCTOBER GLORY RED MAPLE GREEN MOUNTAIN SUGAR MAPLE PRINCETON SENTRY MAIDENHAIR TREE SKYLINE THORNLESS HONEY LOCUST ROUND-LOBED SEEDLESS SWEET GUM TULIP TREE	SIZE 3" CAL. 3" CAL. 3" CAL. 3" CAL. 3" CAL. 2.5" CAL.	CONTAINER B&B B&B B&B B&B B&B B&B B&B B&B B&B B&	DATE: 10/04/2024 GAD I.D.: P-CIVL-LLGT PROJECT: CONDITIONAL USE / SUBDIVISION / PRELIMINARY LAND DEVELOPMENT PLANS
PIAB PM ORI AG CC	RGREEN TREES	RGINIANA HELLOS JGA MENZIESII ER X GRANDIFLORA 'AUTUMN BRILLIAN	SOUR GUM AMERICAN HOPHORNBEAM WILLOW OAK NORWAY SPRUCE DOUGLAS FIR AUTUMN BRILLIANCE APPLE SERVICEBERR EASTERN REDBUD BRILLIANT RED CHOKEBERRY	3" CAL. 3" CAL. 3" CAL. 3" CAL. 6-8` 6-8` Y 2-2 1/2" CAL. 2-2 1/2" CAL. 3-4`	B&B	MAIN LINE HEALTH, INC. PROPOSED MEDICAL CENTER 5030 HORSESHOE PIKE CALN TOWNSHIP CHESTER COUNTY, PA UPI 32-2-87 D.B. 9731, PG. 2246
CA CAH CS CSK DGN HQS IGC IGS IV IVJD IVRS IVWF JHB KLE LB	173CLETHRA AI234CLETHRA AI191CORNUS SE206CORNUS SE180DEUTZIA GFQ40HYDRANGE57ILEX GLABR90ILEX GLABR180ITEA VIRGIN51ILEX VERTIO3138ILEX VERTIO304JUNIPERUS49KALMIA LAT90LINDERA BE	NIFOLIA NIFOLIA 'HUMMINGBIRD' RICEA RICEA 'KELSEYI' ACILIS 'NIKKO' A QUERCIFOLIA 'SNOW QUEEN' A 'COMPACTA' A 'SHAMROCK' ICA 'HENRY'S GARNET' CILLATA 'JIM DANDY' CILLATA 'RED SPRITE' CILLATA 'WINTER RED' HORIZONTALIS 'MONBER' IFOLIA 'ELF' NZOIN	SUMMERSWEET CLETHRA HUMMINGBIRD SUMMERSWEET (DWARF) RED TWIG DOGWOOD KELSEYI DOGWOOD SLENDER DEUTZIA SNOW QUEEN OAKLEAF HYDRANGEA COMPACT INKBERRY HENRY'S GARNET SWEETSPIRE JIM DANDY WINTERBERRY RED SPRITE WINTERBERRY WINTER RED WINTERBERRY ICEE BLUE JUNIPER DWARF MOUNTAIN LAUREL SPICEBUSH	24-30" 24-30" 2-3` 15-18" 18-24" 24-30" 24-30" 24-30" 24-30" 30-36" 18-24" 30-36" 15-18" SPRD 24-30" 30-36"	CONTAINER CONTAINER B&B CONTAINER CONTAINER CONTAINER CONTAINER CONTAINER CONTAINER CONTAINER CONTAINER CONTAINER CONTAINER B&B CONTAINER	BOHLER// 1515 MARKET STREET, SUITE 920 PHILADELPHIA, PA 19102 Phone: (267) 402-3400 Fax: (267) 402-3401 www.BohlerEngineering.com
CPE PVN GENERAL LAND 1. THIS PLAN IS TO BE UTILIZED FOR LA 2. ALL DISTURBED UNPAVED AREAS, EL	246 RHUS AROM 19 RHODODEN 8 VACCINIUM 112 VIBURNUM 123 VIBURNUM ASSES 185 277 PANICUM VI SCAPE NOT ANDSCAPE PURPOSES ONLY. XCLUDING PLANTING BEDS, #	RGATUM 'NORTH WIND'	NORTHERN BAYBERRY GRO-LOW FRAGRANT SUMAC ROSE BAY RHODODENDRON HIGHBUSH BLUEBERRY BLUE MUFFIN VIBURNUM LEATHERLEAF VIBURNUM PENNSYLVANIA SEDGE NORTHWIND SWITCH GRASS	30-36" 15-18" 4-5` 30-36" 3-4` 3-4` 1 GAL. 1 GAL.	B&B CONTAINER B&B CONTAINER B&B B&B CONTAINER CONTAINER CONTAINER	REGISTERED LANDSCAPE ARCHITECT PERMIS ALVARA LICENSTRATION ANDSCAPE ARCHITECT SHEET TITLE:
 ALL DISTORGED UNPAYED AREAS, EACORDANCE WITH LANDSCAPE SP ACCORDANCE WITH LANDSCAPE SP SHRUBS PLANTED ALONG HEAD-IN F CLEARANCE OF TWO FEET FROM FA IF IRRIGATION IS REQUIRED BY THE SHALL PROVIDE AN IRRIGATION SYS PRODUCT'S MANUFACTURER. THE IF AREAS EACH UNDER SEPARATE ZON SHALL BE RESPONSIBLE FOR SECUF IRRIGATION SYSTEM. PLANT MATERIAL SUBSTITUTIONS MI MUNICIPAL ENGINEER AND LANDSCA INSTALLATION. ANY PLANT MATERIA FEATURES MUST BE NATIVE SPECIE: WITHOUT EXCEPTION, WEED BARRIE FACILITY. BMP FACILITIES INCLUDE SWALES AND STORMWATER BASINS 	ECIFICATION #2.C., UNLESS C PARKING STALLS SHALL BE IN CE OF CURB TO ALLOW FOR OWNER OR APPROVING MUN TEM MEETING THE SPECIFIC, RIGATION DESIGN SHALL AC NES TO MAXIMIZE WATER EFF RING ANY PERMITS REQUIRED UST BE FORMALLY SUBMITTE APE CONSULTANTS FOR REVI AL THAT ARE TO BE INSTALLE S. ER FABRIC SHALL NOT BE INS RAINGARDENS, INFILTRATION	OTHERWISE STATED ON THIS PLAN. STALLED TO ALLOW A BUMPER OVERHANG. ICIPALITY, THE CONTRACTOR ATIONS OF THE CHOSEN COMMODATE LAWN AND BED FICIENCY. THE CONTRACTOR D FOR THE INSTALLATION OF AN ED TO BOHLER AND THE EW AND APPROVAL PRIOR TO D WITHIN STORMWATER BMP TALLED WITHIN ANY BMP	THIS PLAN TO FOR LAND PURPOSES	SCAP SONL	E	LANDSCAPE PLAN B SHEET NUMBER: L-103 REVISION 1 - 01/17/2025

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PLANT SCHEDULE							× ×	× × ×
CODE QTY BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	~XX			× ×	× × ×
CANOPY TREES AROG 13 ACER RUBRUM `OCTOBER GLORY` ASGM 6 ACER SACCHARUM `GREEN MOUNTAIN` GP 13 GINKGO BILOBA 'PRINCETON SENTRY'	OCTOBER GLORY RED MAPLE GREEN MOUNTAIN SUGAR MAPLE PRINCETON SENTRY MAIDENHAIR TREE	3" CAL. 3" CAL. 3" CAL.	B&B B&B B&B				× × × ×	×××
GTIK16GLEDITSIA TRIACANTHOS INERMIS `SKYCOLE`LSR10LIQUIDAMBAR STYRACIFLUA `ROTUNDILOBA`LT7LIRIODENDRON TULIPIFERA	SKYLINE THORNLESS HONEY LOCUST ROUND-LOBED SEEDLESS SWEET GUM TULIP TREE	3" CAL. 3" CAL. 2.5" CAL.	B&B B&B B&B	××	× ×	××	× ×	× × ×
NS 5 NYSSA SYLVATICA OV 16 OSTRYA VIRGINIANA QPH 3 QUERCUS PHELLOS	SOUR GUM AMERICAN HOPHORNBEAM WILLOW OAK	3" CAL. 3" CAL. 3" CAL.	B&B B&B B&B	× × × ×	× × - × ×	,, ,,	× ×	X X X
EVERGREEN TREES PIAB 14 PICEA ABIES PM 7 PSEUDOTSUGA MENZIESII	NORWAY SPRUCE DOUGLAS FIR	6-8` 6-8`	B&B B&B	× ×			× × ×	× × × × × ×
ORNAMENTAL TREES AG 10 AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE'			B&B	××	××	× ×	× ×	× × ×
CC 8 CERCIS CANADENSIS SHRUBS	EASTERN REDBUD	2-2 1/2" CAL.	B&B	× × × ×		× × × ×	× ×	× × × × × ×
AAB17ARONIA ARBUTIFOLIA `BRILLIANTISSIMA`CA173CLETHRA ALNIFOLIACAH234CLETHRA ALNIFOLIA `HUMMINGBIRD`	BRILLIANT RED CHOKEBERRY SUMMERSWEET CLETHRA HUMMINGBIRD SUMMERSWEET (DWARF)	3-4` 24-30" 24-30"	B&B CONTAINER CONTAINER	× ×				× × ×
CS 191 CORNUS SERICEA CSK 206 CORNUS SERICEA 'KELSEYI' DGN 180 DEUTZIA GRACILIS 'NIKKO' HOSO 40 HYDRANCEA OLERCIEA ISNOW OLEEN'	RED TWIG DOGWOOD KELSEYI DOGWOOD SLENDER DEUTZIA	2-3` 15-18" 18-24"	B&B CONTAINER CONTAINER	× ×			× ×	× × ×
HQSQ 40 HYDRANGEA QUERCIFOLIA 'SNOW QUEEN' IGC 57 ILEX GLABRA 'COMPACTA' IGS 90 ILEX GLABRA 'SHAMROCK' IV 180 ITEA VIRGINICA 'HENRY'S GARNET'	SNOW QUEEN OAKLEAF HYDRANGEA COMPACT INKBERRY SHAMROCK INKBERRY HENRY'S GARNET SWEETSPIRE	24-30" 24-30" 24-30" 24-30"	CONTAINER CONTAINER CONTAINER CONTAINER	× × ×_ ×	VV	\sim \sim		× × × ~ ~ ~ ~
IVJD51ILEX VERTICILLATA `JIM DANDY`IVRS138ILEX VERTICILLATA `RED SPRITE`IVWR183ILEX VERTICILLATA `WINTER RED`	JIM DANDY WINTERBERRY RED SPRITE WINTERBERRY WINTER RED WINTERBERRY	30-36" 18-24" 30-36"	CONTAINER CONTAINER CONTAINER	1. THIS PI	AN IS TO BE U	TILIZED FOR LAI	SCAPE	SES ONLY.
JHIB 304 JUNIPERUS HORIZONTALIS 'MONBER' KLE 49 KALMIA LATIFOLIA 'ELF' LB 90 LINDERA BENZOIN MP 218 MYRICA PENSYLVANICA	ICEE BLUE JUNIPER DWARF MOUNTAIN LAUREL SPICEBUSH NORTHERN BAYBERRY	15-18" SPRD 24-30" 30-36" 30-36"	CONTAINER B&B CONTAINER B&B	ACCOF 3. SHRUB CLEAR	DANCE WITH L S PLANTED ALC ANCE OF TWO I	ANDSCAPE SPE ONG HEAD-IN PA FEET FROM FAC	CLUDING PLANTIN CIFICATION #2.C., ARKING STALLS SH E OF CURB TO AL	UNLESS OTHERW IALL BE INSTALLE LOW FOR BUMPE
MP 218 MYRICA PENSYLVANICA RAG 246 RHUS AROMATICA 'GRO-LOW' RM 19 RHODODENDRON MAXIMUM VC 8 VACCINIUM CORYMBOSUM	INORTHERN BAYBERRY GRO-LOW FRAGRANT SUMAC ROSE BAY RHODODENDRON HIGHBUSH BLUEBERRY	30-36 15-18" 4-5` 30-36"	B&B CONTAINER B&B CONTAINER	SHALL PRODU AREAS	PROVIDE AN IR CT'S MANUFAC EACH UNDER \$	RIGATION SYST TURER. THE IRF SEPARATE ZONI	WNER OR APPRO EM MEETING THE RIGATION DESIGN ES TO MAXIMIZE W NG ANY PERMITS	SPECIFICATIONS SHALL ACCOMMC
VDC 112 VIBURNUM DENTATUM `CHRISTOM` VR 123 VIBURNUM RHYTIDOPHYLLUM	BLUE MUFFIN VIBURNUM	3-4` 3-4`	B&B B&B	IRRIGA 5. PLANT MUNIC	TION SYSTEM. MATERIAL SUB PAL ENGINEER	STITUTIONS MU	NG ANY PERMITS ST BE FORMALLY PE CONSULTANTS . THAT ARE TO BE	SUBMITTED TO B
GRASSES CPE 185 CAREX PENSYLVANICA PVN 277 PANICUM VIRGATUM 'NORTH WIND'	PENNSYLVANIA SEDGE NORTHWIND SWITCH GRASS	1 GAL. 1 GAL.	CONTAINER CONTAINER	FEATUI 6. WITHO FACILIT	RES MUST BE N UT EXCEPTION 'Y. BMP FACILI	IATIVE SPECIES , WEED BARRIEI		OT BE INSTALLED
				JUALE				







LANDSCAPE SPECIFICATIONS

SCOPE OF WORK THE CONTRACTOR SHALL BE REQUIRED TO PERFORM ALL CLEARING, FINISHED GRADING, SOIL PREPARATION, PERMANENT SEEDING OR SODDING, PLANTING AND MULCHING INCLUDING ALL LABOR, MATERIALS, TOOLS AND EQUIPMENT NECESSARY FOR THE COMPLETION OF THIS PROJECT, UNLESS OTHERWISE CONTRACTED BY THE GENERAL CONTRACTOR.

- GENERAL ALL HARDSCAPE MATERIALS SHALL MEET OR EXCEED SPECIFICATIONS AS OUTLINED IN THE STATE DEPARTMENT OF FRANSPORTATION'S SPECIFICATIONS.
- B. TOPSOIL NATURAL, FRIABLE, LOAMY SILT SOIL HAVING AN ORGANIC CONTENT NOT LESS THAN 5%, A PH RANGE BETWEEN 5.5-7.0. IT SHALL BE FREE OF DEBRIS, ROCKS LARGER THAN ONE INCH (1"), WOOD, ROOTS, VEGETABLE MATTER AND CLAY CLODS. C. LAWN - LAWN AREAS SHALL BE SEEDED OR SODDED IN ACCORDANCE WITH THE PERMANENT STABILIZATION METHODS INDICATED WITHIN THE
- SOIL EROSION AND SEDIMENT CONTROL NOTES. FOR SOIL BED PREPARATIONS, REFER TO ITEM 8 BELOW. LAWN SEED MIXTURE SHALL BE FRESH, CLEAN NEW CROP SEED.
- SOD SHALL BE STRONGLY ROOTED, WEED AND DISEASE/PEST FREE WITH A UNIFORM THICKNESS. SOD INSTALLED ON SLOPES GREATER THAN 4:1 SHALL BE PEGGED TO HOLD SOD IN PLACE. D. MULCH - ALL PLANTING BEDS SHALL BE MULCHED WITH A 3" THICK LAYER OF DOUBLE SHREDDED HARDWOOD BARK MULCH, UNLESS OTHERWISE STATED ON THE LANDSCAPE PLAN.
- E. FERTILIZER FERTILIZER SHALL BE DELIVERED TO THE SITE MIXED AS SPECIFIED IN THE ORIGINAL UNOPENED STANDARD BAGS SHOWING WEIGHT, ANALYSIS AND NAME OF MANUFACTURER. FERTILIZER SHALL BE STORED IN A WEATHERPROOF PLACE SO THAT IT CAN BE KEPT DRY PRIOR TO USE. FOR THE PURPOSE OF BIDDING, ASSUME THAT FERTILIZER SHALL BE 10% NITROGEN, 6% PHOSPHORUS AND 4% POTASSIUM BY WEIGHT A
- FERTILIZER SHOULD NOT BE SELECTED WITHOUT A SOIL TEST PERFORMED BY A CERTIFIED SOIL LABORATORY. F. PLANT MATERIAL ALL PLANTS SHALL IN ALL CASES CONFORM TO THE REQUIREMENTS OF THE "AMERICAN STANDARD FOR NURSERY STOCK" (ANSI Z60.1), LATEST EDITION, AS PUBLISHED BY AMERICAN HORT (FORMERLY THE AMERICAN NURSERY AND LANDSCAPE ASSOCIATION). IN ALL CASES, BOTANICAL NAMES SHALL TAKE PRECEDENCE OVER COMMON NAMES FOR ANY AND ALL PLANT MATERIAL
- PLANTS SHALL BE LEGIBLY TAGGED WITH THE PROPER NAME AND SIZE. TAGS ARE TO REMAIN ON AT LEAST ONE PLANT OF EACH SPECIES FOR VERIFICATION PURPOSES DURING THE FINAL INSPECTION. TREES WITH ABRASION OF THE BARK, SUN SCALDS, DISFIGURATION OR FRESH CUTS OF LIMBS OVER 1/4", WHICH HAVE NOT BEEN COMPLETELY CALLUSED, SHALL BE REJECTED. PLANTS SHALL NOT BE BOUND WITH WIRE OR ROPE AT ANY TIME SO AS TO DAMAGE THE BARK OR BREAK BRANCHES.
- ALL PLANTS SHALL BE TYPICAL OF THEIR SPECIES OR VARIETY AND SHALL HAVE A NORMAL HABIT OF GROWTH: WELL DEVELOPED BRANCHES, DENSELY FOLIATED, VIGOROUS ROOT SYSTEMS AND BE FREE OF DISEASE, INSECTS, PESTS, EGGS OR LARVAE. CALIPER MEASUREMENTS OF NURSERY GROWN TREES SHALL BE TAKEN AT A POINT ON THE TRUNK SIX INCHES (6") ABOVE THE NATURAL GRADE FOR TREES UP TO AND INCLUDING A FOUR INCH (4") CALIPER SIZE. IF THE CALIPER AT SIX INCHES (6") ABOVE THE GROUND EXCEEDS FOUR INCHES (4") IN CALIPER, THE CALIPER SHOULD BE MEASURED AT A POINT 12" ABOVE THE NATURAL GRADE. SHRUBS SHALL BE MEASURED TO THE AVERAGE HEIGHT OR SPREAD OF THE SHRUB, AND NOT TO THE LONGEST BRANCH. TREES AND SHRUBS SHALL BE HANDLED WITH CARE BY THE ROOT BALL.
- GENERAL WORK PROCEDURES CONTRACTOR TO UTILIZE WORKMANLIKE INDUSTRY STANDARDS IN PERFORMING ALL LANDSCAPE CONSTRUCTION. THE SITE IS TO BE LEFT IN A CLEAN STATE AT THE END OF EACH WORKDAY. ALL DEBRIS, MATERIALS AND TOOLS SHALL BE PROPERLY STORED, STOCKPILED OR DISPOSED
- B. WASTE MATERIALS AND DEBRIS SHALL BE COMPLETELY DISPOSED OF AT THE CONTRACTOR'S EXPENSE. DEBRIS SHALL NOT BE BURIED, INCLUDING ORGANIC MATERIALS, BUT SHALL BE REMOVED COMPLETELY FROM THE SITE.
- SITE PREPARATIONS A. BEFORE AND DURING PRELIMINARY GRADING AND FINISHED GRADING, ALL WEEDS AND GRASSES SHALL BE DUG OUT BY THE ROOTS AND DISPOSED OF IN ACCORDANCE WITH GENERAL WORK PROCEDURES OUTLINED HEREIN. B. ALL EXISTING TREES TO REMAIN SHALL BE PRUNED TO REMOVE ANY DAMAGED BRANCHES. THE ENTIRE LIMB OF ANY DAMAGED BRANCH SHALL BE CUT OFF AT THE BRANCH COLLAR. CONTRACTOR SHALL ENSURE THAT CUTS ARE SMOOTH AND STRAIGHT ANY EXPOSED ROOTS SHALL BE CUT BACK WITH CLEAN, SHARP TOOLS AND TOPSOIL SHALL BE PLACED AROUND THE REMAINDER OF THE ROOTS. EXISTING TREES SHALL BE MONITORED ON A REGULAR BASIS FOR ADDITIONAL ROOT OR BRANCH DAMAGE AS A RESULT OF CONSTRUCTION. ROOTS SHALL NOT BE LEFT EXPOSED FOR MORE THAN ONE (1) DAY. CONTRACTOR SHALL WATER EXISTING TREES AS NEEDED TO PREVENT SHOCK OR DECLINE.
- CONTRACTOR SHALL ARRANGE TO HAVE A UTILITY STAKE-OUT TO LOCATE ALL UNDERGROUND UTILITIES PRIOR TO INSTALLATION OF ANY LANDSCAPE MATERIAL. UTILITY COMPANIES SHALL BE CONTACTED THREE (3) DAYS PRIOR TO THE BEGINNING OF WORK.
- TREE PROTECTION A. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING TREES TO REMAIN. A TREE PROTECTION ZONE SHALL BE ESTABLISHED AT THE DRIP LINE OR 15 FEET FROM THE TRUNK OR AT THE LIMIT OF CONSTRUCTION DISTURBANCE, WHICHEVER IS GREATER. LOCAL STANDARDS THAT MAY REQUIRE A MORE STRICT TREE PROTECTION ZONE SHALL BE HONORED.
- B. A FORTY-EIGHT INCH (48") HIGH WOODEN SNOW FENCE OR ORANGE COLORED HIGH-DENSITY 'VISI-FENCE', OR APPROVED EQUAL, MOUNTED ON STEEL POSTS SHALL BE PLACED ALONG THE BOUNDARY OF THE TREE PROTECTION ZONE. POSTS SHALL BE LOCATED AT A MAXIMUM OF EIGHT FEET (8') ON CENTER OR AS INDICATED WITHIN THE TREE PROTECTION DETAIL.
- WHEN THE TREE PROTECTION FENCING HAS BEEN INSTALLED, IT SHALL BE INSPECTED BY THE APPROVING AGENCY PRIOR TO DEMOLITION, GRADING, TREE CLEARING OR ANY OTHER CONSTRUCTION. THE FENCING ALONG THE TREE PROTECTION ZONE SHALL BE REGULARLY INSPECTED BY THE CONTRACTOR AND MAINTAINED UNTIL ALL CONSTRUCTION ACTIVITY HAS BEEN COMPLETED.
- D. AT NO TIME SHALL MACHINERY, DEBRIS, FALLEN TREES OR OTHER MATERIALS BE PLACED, STOCKPILED OR LEFT STANDING IN THE TREE PROTECTION ZONE. 6. SOIL MODIFICATIONS
- CONTRACTOR SHALL ATTAIN A SOIL TEST FOR ALL AREAS OF THE SITE PRIOR TO CONDUCTING ANY PLANTING. SOIL TESTS SHALL BE PERFORMED BY A CERTIFIED SOIL LABORATORY. B. CONTRACTOR SHALL REPORT ANY SOIL OR DRAINAGE CONDITIONS CONSIDERED DETRIMENTAL TO THE GROWTH OF PLANT MATERIAL. SOIL MODIFICATIONS, AS SPECIFIED HEREIN, MAY NEED TO BE CONDUCTED BY THE CONTRACTOR DEPENDING ON SITE CONDITIONS.
 C. THE FOLLOWING AMENDMENTS AND QUANTITIES ARE APPROXIMATE AND ARE FOR BIDDING PURPOSES ONLY. COMPOSITION OF AMENDMENTS
- SHOULD BE REVISED DEPENDING ON THE OUTCOME OF A TOPSOIL ANALYSIS PERFORMED BY A CERTIFIED SOIL LABORATORY. TO INCREASE A SANDY SOIL'S ABILITY TO RETAIN WATER AND NUTRIENTS, THOROUGHLY TILL ORGANIC MATTER INTO THE TOP 6-12". USE COMPOSTED BARK, COMPOSTED LEAF MULCH OR PEAT MOSS. ALL PRODUCTS SHOULD BE COMPOSTED TO A DARK COLOR AND BE FREE OF PIECES WITH IDENTIFIABLE LEAF OR WOOD STRUCTURE. AVOID MATERIAL WITH A PH HIGHER THAN 7.5. TO INCREASE DRAINAGE, MODIFY HEAVY CLAY OR SILT (MORE THAN 40% CLAY OR SILT) BY ADDING COMPOSTED PINE BARK (UP TO 30% BY VOLUME) AND/OR AGRICULTURAL GYPSUM. COARSE SAND MAY BE USED IF ENOUGH IS ADDED TO BRING THE SAND CONTENT TO MORE THAN
- 60% OF THE TOTAL MIX. SUBSURFACE DRAINAGE LINES MAY NEED TO BE ADDED TO INCREASE DRAINAGE. MODIFY EXTREMELY SANDY SOILS (MORE THAN 85%) BY ADDING ORGANIC MATTER AND/OR DRY, SHREDDED CLAY LOAM UP TO 30% OF THE TOTAL MIX.
- FINISHED GRADING A. UNLESS OTHERWISE CONTRACTED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF TOPSOIL AND THE ESTABLISHMENT OF FINE-GRADING WITHIN THE DISTURBANCE AREA OF THE SITE.
- CONTRACTOR SHALL VERIFY THAT SUBGRADE FOR INSTALLATION OF TOPSOIL HAS BEEN ESTABLISHED. THE SUBGRADE OF THE SITE MUST MEET THE FINISHED GRADE LESS THE REQUIRED TOPSOIL THICKNESS (1"±). C. ALL LAWN AND PLANTING AREAS SHALL BE GRADED TO A SMOOTH, EVEN AND UNIFORM PLANE WITH NO ABRUPT CHANGE OF SURFACE AS
- DEPICTED WITHIN THIS SET OF CONSTRUCTION PLANS. UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER OR LANDSCAPE ARCHITECT D. ALL PLANTING AREAS SHALL BE GRADED AND MAINTAINED TO ALLOW FREE FLOW OF SURFACE WATER IN AND AROUND THE PLANTING BEDS. STANDING WATER SHALL NOT BE PERMITTED IN PLANTING BEDS.
- 8. TOPSOILING A. CONTRACTOR SHALL PROVIDE A SIX INCH (6") THICK MINIMUM LAYER OF TOPSOIL, OR AS DIRECTED BY THE LOCAL ORDINANCE OR CLIENT, IN ALL
- PLANTING AND LAWN AREAS. TOPSOIL SHOULD BE SPREAD OVER A PREPARED SURFACE IN A UNIFORM LAYER TO ACHIEVE THE DESIRED COMPACTED THICKNESS. B. ON-SITE TOPSOIL MAY BE USED TO SUPPLEMENT THE TOTAL AMOUNT REQUIRED. TOPSOIL FROM THE SITE MAY BE REJECTED IF IT HAS NOT BEEN PROPERLY REMOVED, STORED AND PROTECTED PRIOR TO CONSTRUCTION.
- C. CONTRACTOR SHALL FURNISH TO THE APPROVING AGENCY AN ANALYSIS OF BOTH IMPORTED AND ON-SITE TOPSOIL TO BE UTILIZED IN ALL PLANTING AREAS. THE PH AND NUTRIENT LEVELS MAY NEED TO BE ADJUSTED THROUGH SOIL MODIFICATIONS AS NEEDED TO ACHIEVE THE REQUIRED LEVELS AS SPECIFIED IN THE MATERIALS SECTION ABOVE.
- D. ALL LAWN AREAS ARE TO BE CULTIVATED TO A DEPTH OF SIX INCHES (6"). ALL DEBRIS EXPOSED FROM EXCAVATION AND CULTIVATION SHALL BE DISPOSED OF IN ACCORDANCE WITH GENERAL WORK PROCEDURES SECTION ABOVE. THE FOLLOWING SHALL BE TILLED INTO THE TOP FOUR INCHES (4") IN TWO DIRECTIONS (QUANTITIES BASED ON A 1,000 SQUARE FOOT AREA - FOR BID PURPOSES ONLY [SEE SPECIFICATION 6.A.]): 20 POUNDS 'GRO-POWER' OR APPROVED EQUAL SOIL CONDITIONER/FERTILIZER
- 20 POLINDS 'NITRO-FORM' (COLIRSE) 38-0-0 BILLE CHIP OR APPROVED NITROGEN FERTU IZER E. THE SPREADING OF TOPSOIL SHALL NOT BE CONDUCTED UNDER MUDDY OR FROZEN CONDITIONS.

9. A. B.	PLANTING INSOFAR THAT IT IS FEASIBLE, PLANT MATERIAL SHALL BE PLANTED ON THE D/ CONTRACTOR SHALL PROTECT UNINSTALLED PLANT MATERIAL. PLANTS SHALL PERIOD AFTER DELIVERY. PLANTS THAT WILL NOT BE PLANTED FOR A PERIOD TOPSOIL OR MULCH TO HELP PRESERVE ROOT MOISTURE. PLANTING OPERATIONS SHALL BE PERFORMED DURING PERIODS WITHIN THE SUITABLE AND IN ACCORDANCE WITH ACCEPTED LOCAL PRACTICE. PLANTS S FROZEN CONDITION.	L NOT REMAIN UNPLANTED FOR LON OF TIME GREATER THAN THREE DAY PLANTING SEASON WHEN WEATHER	GER THAN A THREE DAY S SHALL BE HEALED IN WITH AND SOIL CONDITIONS ARE	TM	ن	OSE WITHOUT PRIOR WRITTEN TION PURPOSES
D. E.	ANY INJURED ROOTS OR BRANCHES SHALL BE PRUNED TO MAKE CLEAN-CUT I INJURED OR DISEASED BRANCHING SHALL BE REMOVED. ALL PLANTING CONTAINERS, BASKETS AND NON-BIODEGRADABLE MATERIALS NATURAL FIBER BURLAP MUST BE CUT FROM AROUND THE TRUNK OF THE TRE BACKFILLING. POSITION TREES AND SHRUBS AT THEIR INTENDED LOCATIONS AS PER THE PL PRIOR TO EXCAVATING PITS, MAKING NECESSARY ADJUSTMENTS AS DIRECTE	SHALL BE REMOVED FROM ROOT BA EE AND FOLDED DOWN AGAINST THE ANS AND SECURE THE APPROVAL O D.	LLS DURING PLANTING. ROOT BALL PRIOR TO F THE LANDSCAPE ARCHITECT		3 ENGINEERING NG EMENT ECTURE SIGN /ICES	DELTATION OF ANY PURPOSE WITHOUT PRIOR SECOPED OR USED FOR ANY PURPOSE WITHOUT PRIOR SHALL BE UTILIZED FOR CONSTRUCTION PURPOSES
F. - -	PRIOR TO THE ISSUANCE OF ANY CERTIFICATE OF OCCUPANCY, THE PROPOSI MUST BE INSTALLED, INSPECTED AND APPROVED BY THE APPROVING AGENCY CONSIDERATIONS IN THIS REGARD AS FOLLOWS. THE PLANTING OF TREES, SH FOLLOWING PLANTING SEASONS: PLANTS: MARCH 15TH TO DECEMBER 15TH LAWN AND MEADOW SEED MIXES: MARCH 1ST TO MAY 15TH OR BETWEEN AU PLANTINGS REQUIRED FOR A CERTIFICATE OF OCCUPANCY SHALL BE PROVID	7. THE APPROVING AGENCY SHALL T IRUBS, VINES OR GROUND COVER SH JGUST 15TH AND OCTOBER 15TH	AKE INTO ACCOUNT SEASONAL HALL OCCUR ONLY DURING THE		SULTING JRVEYIN AANAGE ARCHITE BLE DES G SERVI SFRVI SFRVI	ND SHALL NOT I
G.	MUNICIPALITY'S DISCRETION. CONTRACTOR SHOULD CONTACT APPROVING AC FURTHERMORE, THE FOLLOWING TREE VARIETIES ARE UNUSUALLY SUSCEPTI SEASONAL LACK OF NITROGEN AVAILABILITY, THE RISK OF PLANT DEATH IS GF SPECIES BE PLANTED DURING THE FALL PLANTING SEASON: ACER RUBRUM PLATANUS X ACERIFOLIA BETULA VARIETIES POPULUS VARIETIES CARPINUS VARIETIES PRUNUS VARIETIES	BLE TO WINTER DAMAGE. WITH TRAI	NSPLANT SHOCK AND THE		CIVIL AND CONS LAND SU PROGRAM N LANDSCAPE / SUSTAINA PERMITTIN TRANSPORTA	OF THIS PLAN ARE PF .ER. ONLY APPROVED
H.	CRATAEGUS VARIETIES PYRUS VARIETIES KOELREUTERIA QUERCUS VARIETIES LIQUIDAMBAR STYRACIFLUA TILIA TOMENTOSA LIRIODENDRON TULIPIFERA ZELKOVA VARIETIES PLANTING PITS SHALL BE DUG WITH LEVEL OR CONVEX BOTTOMS, WITH THE V				SITE O	INFORMATION, DESIGN AND CONTENT AUTHORIZATION FROM BOHL
- - -	SHALL REST ON UNDISTURBED GRADE. EACH PLANT PIT SHALL BE BACKFILLED THOROUGHLY: 1 PART PEAT MOSS 1 PART COMPOSTED COW MANURE BY VOLUME 3 PARTS TOPSOIL BY VOLUME 21 GRAMS 'AGRIFORM' PLANTING TABLETS (OR APPROVED EQUAL) AS FOLLO		REPARED SOIL MIXED			THE INFORMATION, AUTH
-	2 TABLETS PER 1 GALLON PLANT 3 TABLETS PER 5 GALLON PLANT 4 TABLETS PER 15 GALLON PLANT	wo.		RE	VISIONS	
I. J.	LARGER PLANTS: 2 TABLETS PER ½" CALIPER OF TRUNK FILL PREPARED SOIL AROUND BALL OF PLANT HALF-WAY AND INSERT PLANT T ALL PLANTS SHALL BE PLANTED SO THAT THE TOP OF THE ROOT BALL, THE PC			REV DATE	COMMENT	DRAWN BY
L.	AND IN THE CENTER OF THE PIT. NO SOIL IS TO BE PLACED DIRECTLY ON TOP ALL PROPOSED TREES DIRECTLY ADJACENT TO WALKWAYS OR DRIVEWAYS S HEIGHT OF 7' FROM GRADE. NO PRUNING SHALL BE CONDUCTED WITHIN THE F GROUND COVER AREAS SHALL RECEIVE A ¼" LAYER OF HUMUS RAKED INTO T COVER AREAS SHALL BE WEEDED AND TREATED WITH A PRE-EMERGENT CHEI NO PLANT, EXCEPT GROUND COVERS, GRASSES OR VINES, SHALL BE PLANTED	HALL BE PRUNED AND MAINTAINED T IRST YEAR OF PLANTING. HE TOP 1" OF PREPARED SOIL PRIOR VICAL AS PER MANUFACTURER'S REG	TO PLANTING. ALL GROUND COMMENDATION.		R TOWNSHIP / WER COMMENTS	SJA/AN LB/SP
	SIDEWALKS. ALL PLANTING AREAS AND PLANTING PITS SHALL BE MULCHED AS SPECIFIED F TOUCH THE TRUNK OF THE TREE OR SHRUB. ALL PLANTING AREAS SHALL BE WATERED IMMEDIATELY UPON INSTALLATION HEREIN.					
Α.	TRANSPLANTING (WHEN REQUIRED) ALL TRANSPLANTS SHALL BE DUG WITH INTACT ROOT BALLS CAPABLE OF SUS IF PLANTS ARE TO BE STOCKPILED BEFORE REPLANTING, THEY SHALL BE HEA	TAINING THE PLANT. (SEE SPECIFICA LED IN WITH MULCH OR SOIL, ADEQU	TION 2.F. ABOVE) ATELY WATERED AND			
D.	PROTECTED FROM EXTREME HEAT, SUN AND WIND. PLANTS SHALL NOT BE DUG FOR TRANSPLANTING BETWEEN APRIL 10TH AND J UPON REPLANTING, BACKFILL SOIL SHALL BE AMENDED WITH FERTILIZER AND	ROOT GROWTH HORMONE.				
	TRANSPLANTS SHALL BE GUARANTEED FOR THE LENGTH OF THE GUARANTEE IF TRANSPLANTS DIE, SHRUBS AND TREES LESS THAN SIX INCHES (6") DBH SH/ DBH MAY BE REQUIRED TO BE REPLACED IN ACCORDANCE WITH THE MUNICIP.	ALL BE REPLACED IN KIND. TREES GF	()			
	WATERING NEW PLANTINGS OR LAWN AREAS SHALL BE ADEQUATELY IRRIGATED BEGINNI EACH TREE AND SHRUB IN SUCH MANNER AS NOT TO DISTURB BACKFILL AND	TO THE EXTENT THAT ALL MATERIALS				
	THOROUGHLY SATURATED. WATERING SHALL CONTINUE AT LEAST UNTIL PLA SITE OWNER SHALL PROVIDE WATER IF AVAILABLE ON SITE AT TIME OF PLANT SUPPLY ALL NECESSARY WATER. THE USE OF WATERING BAGS IS RECOMMEN IF AN IRRIGATION SYSTEM HAS BEEN INSTALLED ON THE SITE, IT SHALL BE USI THE SYSTEM DOES NOT ELIMINATE THE CONTRACTOR'S RESPONSIBILITY OF M HEALTHY GROWTH.	ING. IF WATER IS NOT AVAILABLE ON DED FOR ALL NEWLY PLANTED TREE ED TO WATER PROPOSED PLANT MA	S. FERIAL, BUT ANY FAILURE OF		TTENTION ALL CONTRACT OCATIONS OF ALL EXISTIN TILITIES SHOWN HEREON EEN DEVELOPED FROM UT OMPANY RECORDS AND/O BOVE-GROUND INSPECTIC ITE. COMPLETENESS OR	ig Have Tility Dr
	GUARANTEE THE CONTRACTOR SHALL GUARANTEE ALL PLANTS FOR A PERIOD OF ONE (1) APPROVING AGENCY, CONTRACTOR SHALL SUPPLY THE OWNER WITH A MAIN			UNDERGROUND FACILIT	CCURACY OF TYPE, SIZE, DR HORIZONTAL LOCATION FIES OR STRUCTURES CAN SUANT TO REQUIREMENTS	I OF INOT BE
В.	LANDSCAPE INSTALLATION WHICH WILL BE RELEASED AT THE CONCLUSION OF BEEN COMPLETED AND APPROVED BY THE OWNER OR AUTHORIZED REPRESE ANY DEAD OR DYING PLANT MATERIAL SHALL BE REPLACED FOR THE LENGTH	F THE GUARANTEE PERIOD AND WHE NTATIVE.	N A FINAL INSPECTION HAS	PENNSYLVANIA LEGISLA AMENDED BY ACT 50 OF 2 LOCATION AND DEPTH OF	TIVE ACT NUMBER 287 OF 2017, CONTRACTORS MUS ALL UNDERGROUND UTIL IOR TO START OF WORK.	1974 AS T VERIFY
C.	SHALL BE CONDUCTED AT THE FIRST SUCCEEDING PLANTING SEASON. ANY DE PLANT SHALL BE CONSIDERED "DEAD OR DYING" IF MORE THAN 30% OF ITS BE TREES AND SHRUBS SHALL BE MAINTAINED BY THE CONTRACTOR DURING CO	RANCHES ARE DEAD. NSTRUCTION AND UNTIL TURNOVER	TO THE OWNER/OPERATOR.	WWW	V.PA1CALL.ORG 20230733143	
D.	CULTIVATION, WEEDING, WATERING AND THE PREVENTATIVE TREATMENTS SH GOOD CONDITION AND FREE OF INSECTS AND DISEASE. LAWNS SHALL BE MAINTAINED BY THE CONTRACTOR DURING CONSTRUCTION WATERING, FERTILIZING, WEEDING, MOWING, TRIMMING AND OTHER OPERATION	AND UNTIL TURNOVER TO THE OWN	ER/OPERATOR THROUGH			
	REQUIRED TO ESTABLISH A SMOOTH, ACCEPTABLE LAWN, FREE OF ERODED C <u>CLEANUP</u> UPON THE COMPLETION OF ALL LANDSCAPE INSTALLATION AND BEFORE THE I UNUSED MATERIALS, EQUIPMENT AND DEBRIS FROM THE SITE, ALL PAVED ARE	FINAL ACCEPTANCE, THE CONTRACT	OR SHALL REMOVE ALL			
B.	THE SITE SHALL BE CLEANED AND LEFT IN A NEAT AND ACCEPTABLE CONDITION REPRESENTATIVE.		AUTHORIZED	PROJECT No.: DRAWN BY: CHECKED BY: DATE: CAD I.D.:	10	55.00-1A SJA / AM LB / SP /04/2024 VL-LLGT
	ERNST SEED CO. NORTH PERENNIAL WILDFLOWE SPECIFICATIONS (ERNM)	R MIX SEEDIN		SUBD PRELIMI DEVEL	ONAL US IVISION I NARY LA	ND
	CENTAUREA CYANUS ECHINACEA PURPUREA LINUM GRANDIFLORUM RUBRUM	CORNFLOWER PURPLE CONEFLOWER SCARLET FLAX	10% 8% 7.9% 6%		FOR	
	COREOPSIS LANCEOLATA DELPHINIUM AJACIS RUDBECKIA HIRTA (COASTAL PLAIN NC ECOTYPE) LUPINUS POLYPHYLLUS	LANCELEAF COREOPSIS ROCKET LARKSPUR BLACK EYED SUSAN BIGLEAF LUPINE	6% 6% 5.4%		IN LINE	
	CALENDULA OFFICINALIS LAVATERA TRIMESTRIS LINUM PERENNE SSP. LEWISII	CALENDULA TREE MALLOW PERENNIAL BLUE FLAX	5.2% 4% 3.5%		LTH, INC.	
	TRIFOLIUM INCARNATUM ESCHSCHOLZIA CALIFORNICA HELIOPSIS HELIANTHOIDES (PA ECOTYPE)	CRIMSON CLOVER CALIFORNIA ORANGE POPPY OXEYE SUNFLOWER	3.3% 3% 3%			ER
	CHRYSANTHEMUM MAXIMUM CHEIRANTHUS ALLIONII RATIBIDA COLUMNARIS ACHILLEA MILLEFOLIUM	SHASTA DAISY WALLFLOWER RED PRAIRIE CONEFLOWER COMMON YARROW	2.5% 2% 2% 1.5%	CALN	RSESHOE PIKE I TOWNSHIP R COUNTY, PA	
	LIATRIS SPICATA PYCNANTHEMUM TENUIFOLIUM LOBULARIA MARITIMA	MARSH (DENSE) BLAZING STA NARROWLEAF MOUNTAINMIN SWEET ALYSSUM	R 1.5%	UP	PI 32-2-87 731, PG. 2246	
	PENSTEMON DIGITALIS (PA ECOTYPE) TRADESCANTIA OHIENSIS (PA ECOTYPE) MONARDA FISTULOSA (FORT INDIANTOWN GAP-PA ECOTYPE)	TALL WHITE BEARDTONGUE OHIO SPIDERWORT WILD BERGAMOT	1% 1% 0.8%			//
	PAPAVER RHOEAS (SHIRLEY MIX) ASCLEPIAS TUBEROSA ASTER LAEVIS (NY ECOTYPE)	CORN POPPY BUTTERFLY MILKWEED SMOOTH BLUE ASTER	0.8% 0.5% 0.5%	IRAH	LER	
	ASTER PRENANTHOIDES (PA ECOTYPE) BAPTISIA AUSTRALIS (SOUTHERN WV ECOTYPE) CLARKIA ELEGANS SILENE ARMERIA	ZIGZAG ASTER BLUE FALSE INDIGO CLARKIA CATCHFLY	0.5% 0.5% 0.5% 0.2%		STREET, SUITE PHIA, PA 19102	
	SOLIDAGO NEMORALIS (PA ECOTYPE) SOLIDAGO ODORA (PA ECOTYPE)	GRAY GOLDENROD LICORICE SCENTED GOLDENF	0.2%	Phone: Fax:	(267) 402-3400 (267) 402-3401	
	SEEDING RATE: 7-10 Ib. PER ACRE OF THE ERNST MIX NURSE CROP: THE ERNST SEED MIX MUST BE ACCOMPANIED	BY ONE OF THE FOLLOWING TEMPOR	RARY SEED	www.Bohler	Engineering.c	com
	 SPECIFICATIONS APPROPRIATE FOR THE TIME OF YEAR: ANNUAL RYE (10 LBS PER ACRE) OR SPRING OATS (64 LBS PER ACRE) OR WINTER RYE (56 LBS PER ACRE) 			SUMMEN N	SYLVA	
	NOTES: 1. THE FORMULATION NOTED ABOVE IS REPRESENTATIVE OF CURRENT FORMULATION AS SPECIFIED BY THE ERNST CO	MPANY AT THE TIME OF PLANTING S	HALL BE USED.		EGISTRATION CONTENT	THE REAL PROPERTY OF THE REAL
	 SEED SHOULD BE APPLIED USING DRILL SEEDING OR BRO CONTRACTOR MUST ENSURE DIRECT SEED-TO-SOIL CON THIS SEED MIX; IT WILL PROHIBIT GERMINATION. THE ENTIRE FACILITY SHALL BE STABILIZED WITH A NORTI BLANKET (OR APPROVED EQUAL). THE BLANKET SHOULD ACCORDANCE WITH THE MANUFACTURER SPECIFICATION 	FACT. HYDROSEEDING IS NOT PERMI H AMERICAN GREEN SC150 STRAW & BE INSTALLED ON TOP OF THE SEED	TTED WITH COCONUT	REGISTEREDLA	NDBOAPE ARCHI	

- 4. THE SEED MIX WILL NEED DAILY SUPPLEMENTAL WATERING UNTIL IT HAS GERMINATED AND REACHED AN AVERAGE HEIGHT OF AT 12-18".
- 5. THE SEEDING AREA SHALL BE MOWED ONCE AFTER THE FIRST GROWING SEASON, EARLY IN THE SPRING, AND THEN SHALL BE MOWED NO MORE THAN ONCE EVERY THREE YEARS THEREAFTER EARLY IN SPRING ONLY.

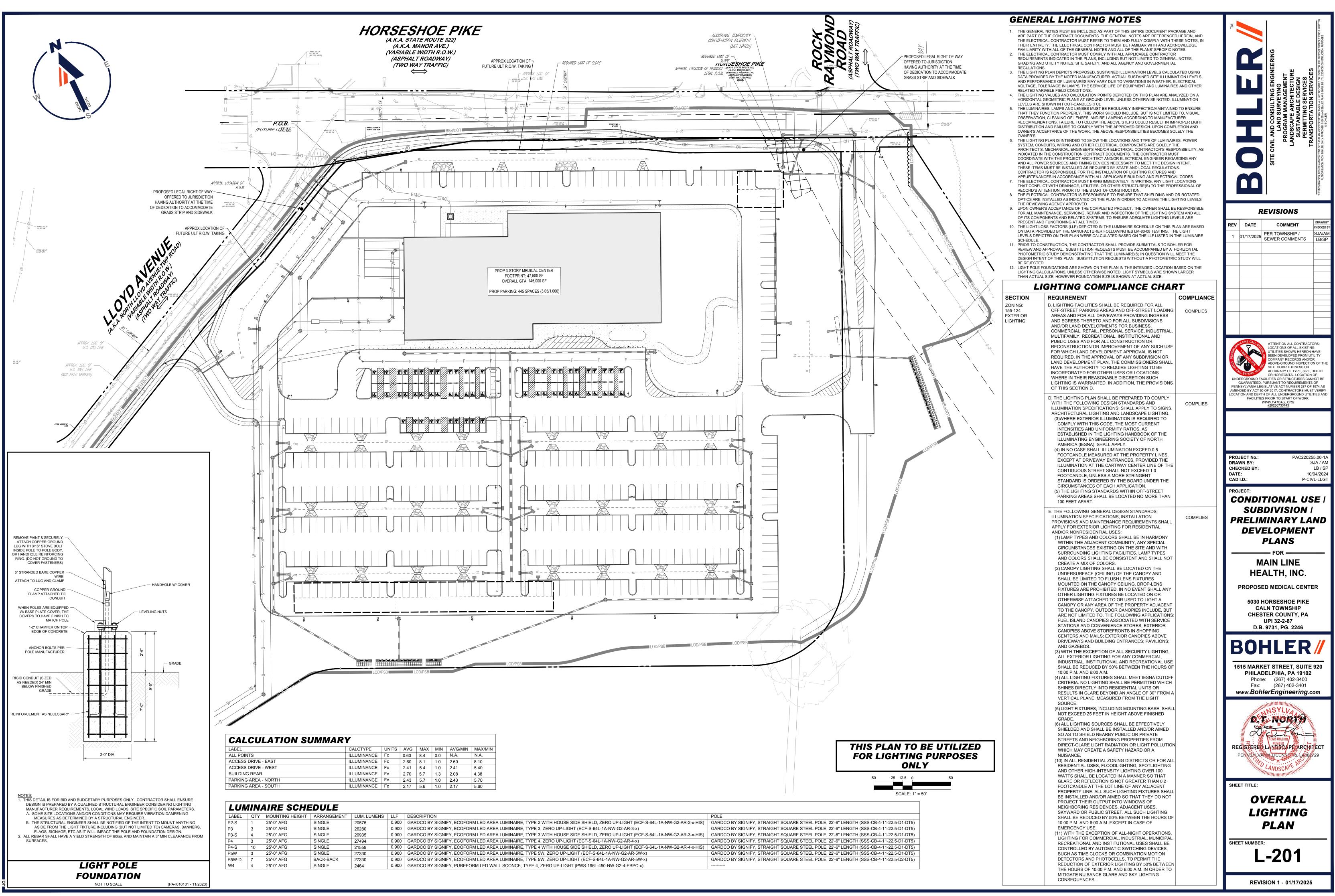


SHEET TITLE:

SHEET NUMBER

REVISION 1 - 01/17/2025

L-106



AC220255.00\CAD\DRAWINGS\PLAN SETS\CIVIL SITE PLANS\P-CIVL-LLGT-PAC220255.00-1A----->LAYOUT: L-201 LGHT-



GENERAL LIGHTING NOTES

- THE GENERAL NOTES MUST BE INCLUDED AS PART OF THIS ENTIRE DOCUMENT PACKAGE AND ARE PART OF THE CONTRACT DOCUMENTS. THE GENERAL NOTES ARE REFERENCED HEREIN, AND THE ELECTRICAL CONTRACTOR MUST REFER TO THEM AND FULLY COMPLY WITH THESE NOTES, IN THEIR ENTIRETY. THE ELECTRICAL CONTRACTOR MUST BE FAMILIAR WITH AND ACKNOWLEDGE FAMILIARITY WITH ALL OF THE GENERAL NOTES AND ALL OF THE PLANS' SPECIFIC NOTES.
 THE ELECTRICAL CONTRACTOR MUST COMPLY WITH ALL APPLICABLE CONTRACTOR REQUIREMENTS INDICATED IN THE PLANS, INCLUDING BUT NOT LIMITED TO GENERAL NOTES,
- GRADING AND UTILITY NOTES, SITE SAFETY, AND ALL AGENCY AND GOVERNMENTAL REGULATIONS.
 THE LIGHTING PLAN DEPICTS PROPOSED, SUSTAINED ILLUMINATION LEVELS CALCULATED USING DATA PROVIDED BY THE NOTED MANUFACTURER. ACTUAL SUSTAINED SITE ILLUMINATION LEVELS AND PERFORMANCE OF LUMINAIRES MAY VARY DUE TO VARIATIONS IN WEATHER, ELECTRICAL
- VOLTAGE, TOLERANCE IN LAMPS, THE SERVICE LIFE OF EQUIPMENT AND LUMINAIRES AND OTHER RELATED VARIABLE FIELD CONDITIONS.
 4. THE LIGHTING VALUES AND CALCULATION POINTS DEPICTED ON THIS PLAN ARE ANALYZED ON A HORIZONTAL GEOMETRIC PLANE AT GROUND LEVEL UNLESS OTHERWISE NOTED. ILLUMINATION
- LEVELS ARE SHOWN IN FOOT-CANDLES (FC). 5. THE LUMINAIRES, LAMPS AND LENSES MUST BE REGULARLY INSPECTED/MAINTAINED TO ENSURE THAT THEY FUNCTION PROPERLY. THIS WORK SHOULD INCLUDE, BUT IS NOT LIMITED TO, VISUAL OBSERVATION, CLEANING OF LENSES, AND RE-LAMPING ACCORDING TO MANUFACTURER RECOMMENDATIONS. FAILURE TO FOLLOW THE ABOVE STEPS COULD RESULT IN IMPROPER LIGHT DISTRIBUTION AND FAILURE TO COMPLY WITH THE APPROVED DESIGN. UPON COMPLETION AND OWNER'S ACCEPTANCE OF THE WORK, THE ABOVE RESPONSIBILITIES BECOMES SOLELY THE
- OWNER'S.
 6. THE LIGHTING PLAN IS INTENDED TO SHOW THE LOCATIONS AND TYPE OF LUMINAIRES. POWER SYSTEM, CONDUITS, WIRING AND OTHER ELECTRICAL COMPONENTS ARE SOLELY THE ARCHITECT'S, MECHANICAL ENGINEER'S AND/OR ELECTRICAL CONTRACTOR'S RESPONSIBILITY, AS INDICATED IN THE CONSTRUCTION CONTRACT DOCUMENTS. THE CONTRACTOR MUST COORDINATE WITH THE PROJECT ARCHITECT AND/OR ELECTRICAL ENGINEER REGARDING ANY AND ALL POWER SOURCES AND TIMING DEVICES NECESSARY TO MEET THE DESIGN INTENT. THESE ITEMS MUST BE INSTALLED AS REQUIRED BY STATE AND LOCAL REGULATIONS. CONTRACTOR IS RESPONSIBLE FOR THE INSTALL ATION OF LIGHTING FIXTURES AND
- APPURTENANCES IN ACCORDANCE WITH ALL APPLICABLE BUILDING AND ELECTRICAL CODES.
 THE ELECTRICAL CONTRACTOR MUST BRING IMMEDIATELY, IN WRITING, ANY LIGHT LOCATIONS THAT CONFLICT WITH DRAINAGE, UTILITIES, OR OTHER STRUCTURE(S) TO THE PROFESSIONAL OF
- RECORD'S ATTENTION, PRIOR TO THE START OF CONSTRUCTION.
 8. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO ENSURE THAT SHIELDING AND OR ROTATED OPTICS ARE INSTALLED AS INDICATED ON THE PLAN IN ORDER TO ACHIEVE THE LIGHTING LEVELS
- THE REVIEWING AGENCY APPROVED. 9. UPON OWNER'S ACCEPTANCE OF THE COMPLETED PROJECT, THE OWNER SHALL BE RESPONSIBLE FOR ALL MAINTENANCE, SERVICING, REPAIR AND INSPECTION OF THE LIGHTING SYSTEM AND ALL
- OF ITS COMPONENTS AND RELATED SYSTEMS, TO ENSURE ADEQUATE LIGHTING LEVELS ARE PRESENT AND FUNCTIONING AT ALL TIMES.
 10. THE LIGHT LOSS FACTORS (LLF) DEPICTED IN THE LUMINAIRE SCHEDULE ON THIS PLAN ARE BASED ON DATA PROVIDED BY THE MANUFACTURER FOLLOWING IES LM-80-08 TESTING. THE LIGHT
- LEVELS DEPICTED ON THIS PLAN WERE CALCULATED BASED ON THE LLF LISTED IN THE LUMINAIRE SCHEDULE.
 11. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE SUBMITTALS TO BOHLER FOR REVIEW AND APPROVAL. SUBSTITUTION REQUESTS MUST BE ACCOMPANIED BY A HORIZONTAL PHOTOMETRIC STUDY DEMONSTRATING THAT THE LUMINAIRE(S) IN QUESTION WILL MEET THE
- DESIGN INTENT OF THIS PLAN. SUBSTITUTION REQUESTS WITHOUT A PHOTOMETRIC STUDY WILL BE REJECTED.
 12. LIGHT POLE FOUNDATIONS ARE SHOWN ON THE PLAN IN THE INTENDED LOCATION BASED ON THE LIGHTING CALCULATIONS, UNLESS OTHERWISE NOTED. LIGHT SYMBOLS ARE SHOWN LARGER THAN ACTUAL SIZE, HOWEVER FOUNDATION SIZE IS SHOWN AT ACTUAL SIZE.



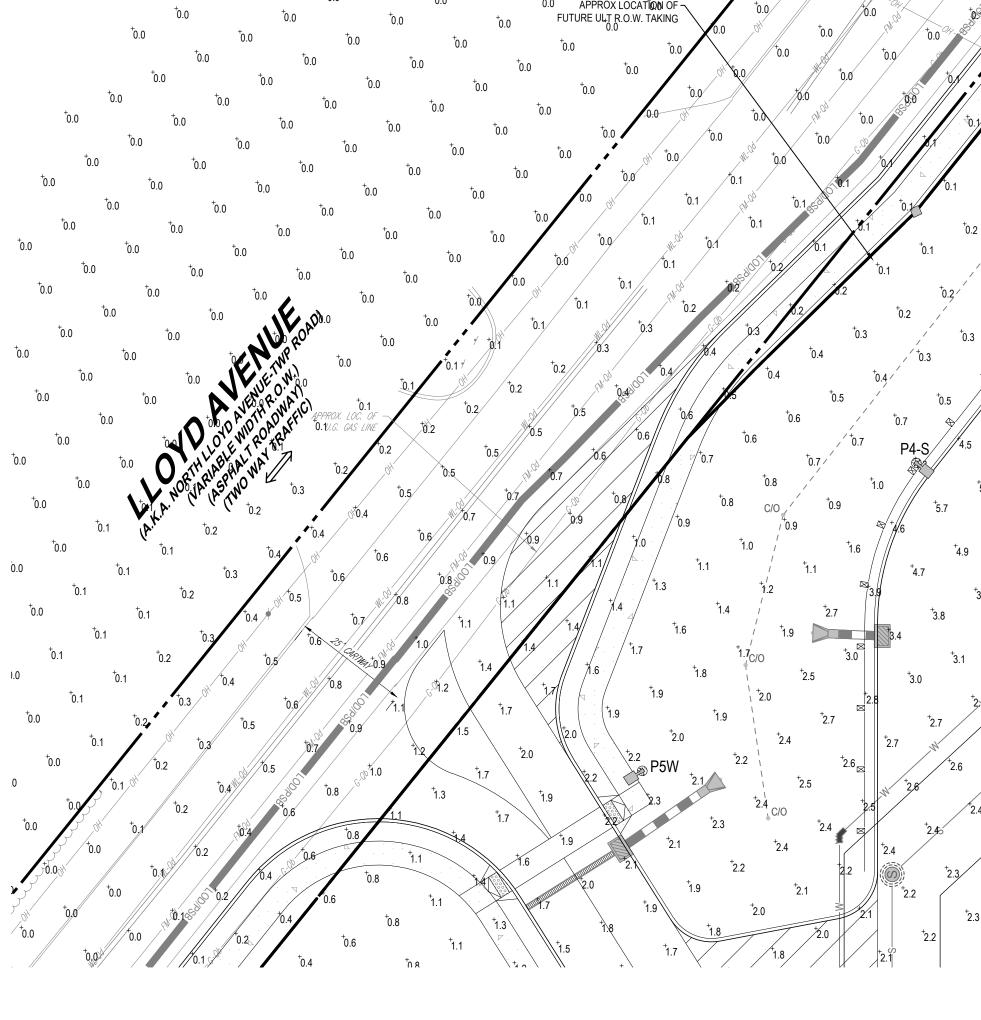
ALL POINTS

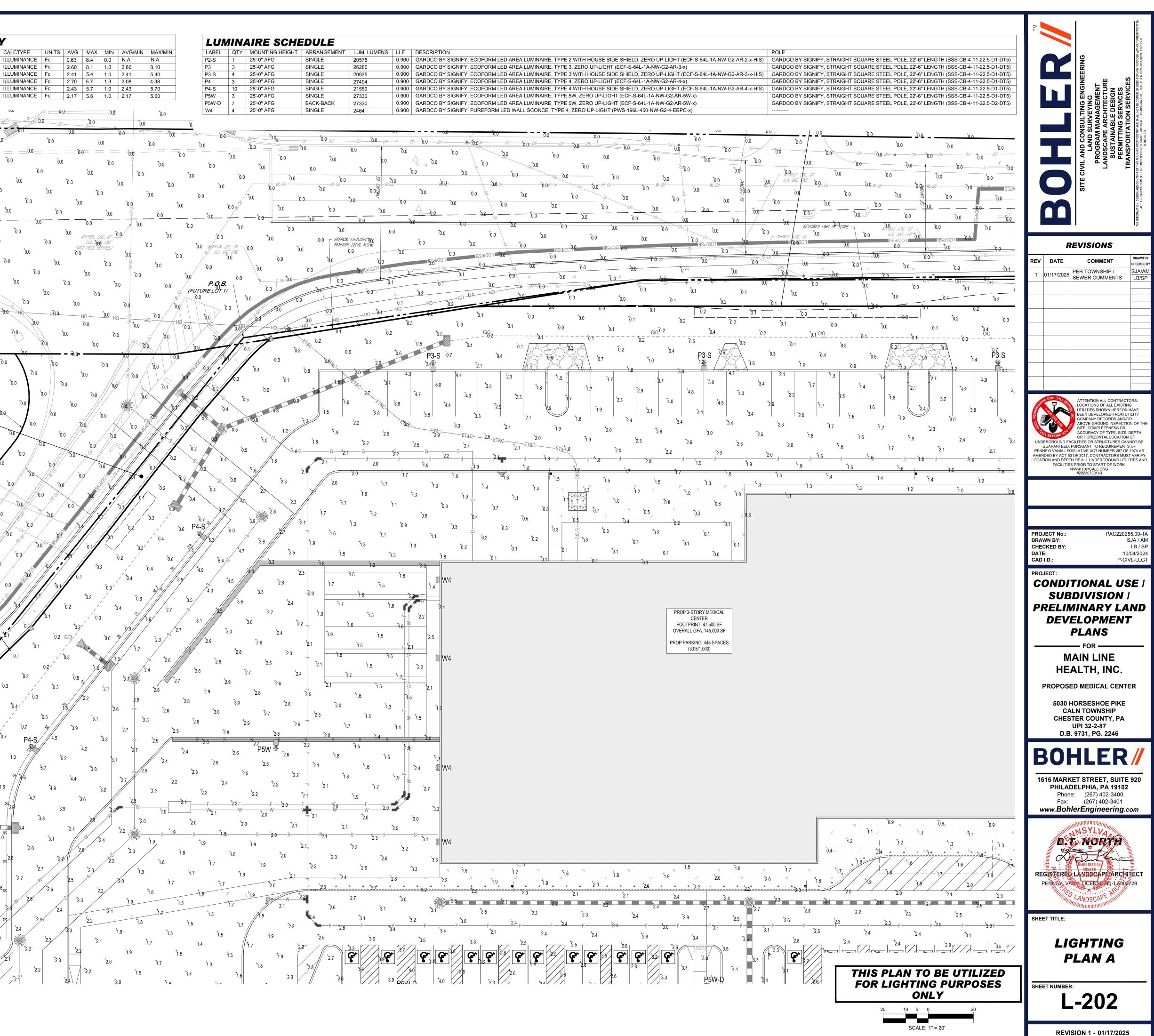
ACCESS DR	IVE - EAST		ILLUMINAN	NCE Fc	2.60	8.1	1.0
ACCESS DR	IVE - WEST		ILLUMINAN	NCE Fc	2.41	5.4	1.0
BUILDING R	EAR		ILLUMINAN	NCE Fc	2.70	5.7	1.3
PARKING AF	REA - NORTH		ILLUMINAN	NCE Fc	2.43	5.7	1.0
PARKING AF	REA - SOUTH		ILLUMINAN	NCE Fc	2.17	5.6	1.0
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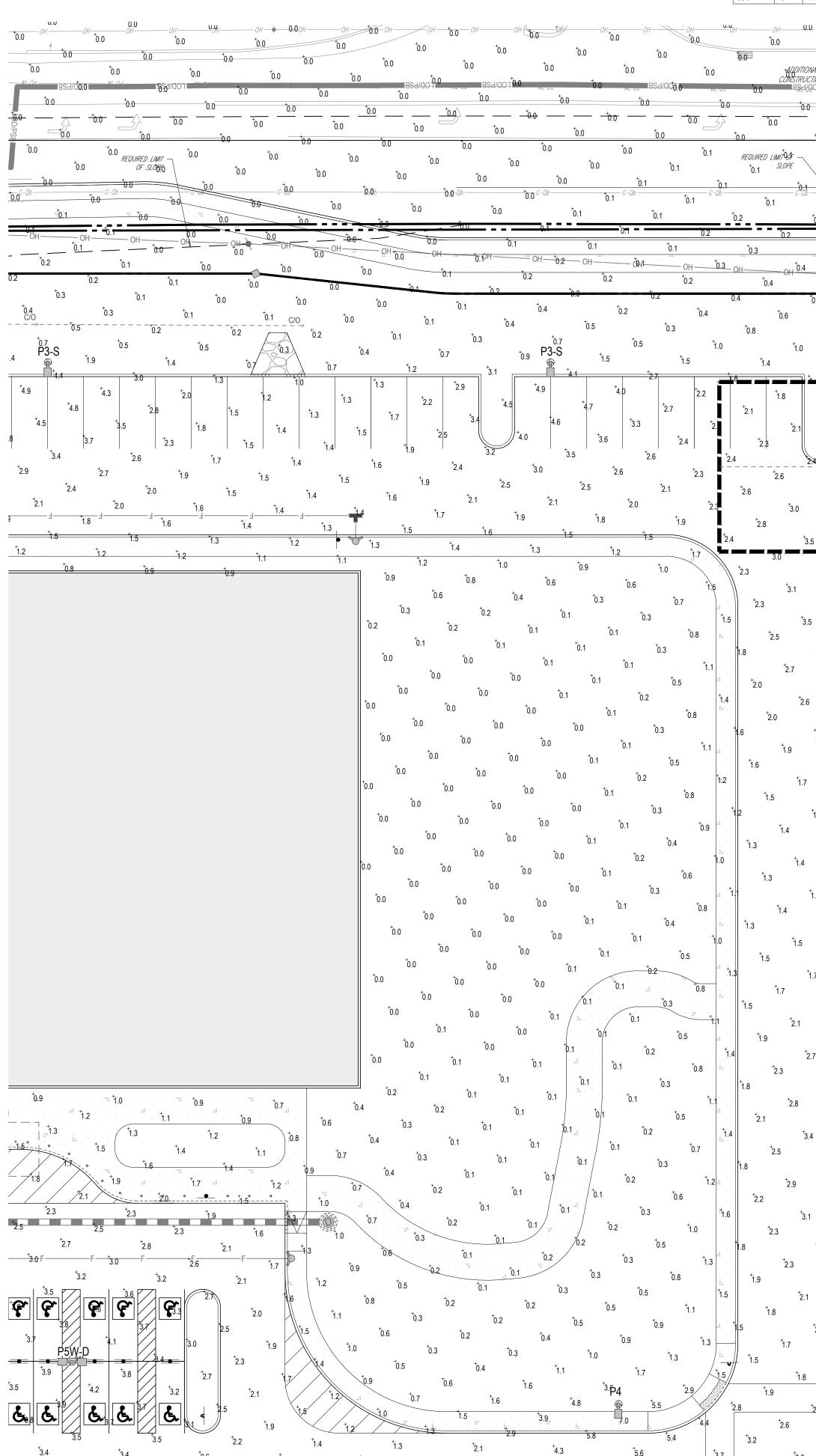






CALCULATION SUMMARY											
CALCTYPE	UNITS	AVG	MAX	MIN	AVG/MIN	MAX/MIN					
ILLUMINANCE	Fc	0.63	8.4	0.0	N.A.	N.A.					
ILLUMINANCE	Fc	2.60	8.1	1.0	2.60	8.10					
ILLUMINANCE	Fc	2.41	5.4	1.0	2.41	5.40					
ILLUMINANCE	Fc	2.70	5.7	1.3	2.08	4.38					
ILLUMINANCE	Fc	2.43	5.7	1.0	2.43	5.70					
ILLUMINANCE	Fc	2.17	5.6	1.0	2.17	5.60					
	CALCTYPE ILLUMINANCE ILLUMINANCE ILLUMINANCE ILLUMINANCE ILLUMINANCE	CALCTYPE UNITS ILLUMINANCE Fc ILLUMINANCE Fc ILLUMINANCE Fc ILLUMINANCE Fc ILLUMINANCE Fc	CALCTYPEUNITSAVGILLUMINANCEFc0.63ILLUMINANCEFc2.60ILLUMINANCEFc2.41ILLUMINANCEFc2.70ILLUMINANCEFc2.43	CALCTYPEUNITSAVGMAXILLUMINANCEFc0.638.4ILLUMINANCEFc2.608.1ILLUMINANCEFc2.415.4ILLUMINANCEFc2.705.7ILLUMINANCEFc2.435.7	CALCTYPE UNITS AVG MAX MIN ILLUMINANCE Fc 0.63 8.4 0.0 ILLUMINANCE Fc 2.60 8.1 1.0 ILLUMINANCE Fc 2.41 5.4 1.0 ILLUMINANCE Fc 2.70 5.7 1.3 ILLUMINANCE Fc 2.43 5.7 1.0	CALCTYPE UNITS AVG MAX MIN AVG/MIN ILLUMINANCE Fc 0.63 8.4 0.0 N.A. ILLUMINANCE Fc 2.60 8.1 1.0 2.60 ILLUMINANCE Fc 2.41 5.4 1.0 2.41 ILLUMINANCE Fc 2.70 5.7 1.3 2.08 ILLUMINANCE Fc 2.43 5.7 1.0 2.43					





LUMINAIRE SCHEDULE

LABEL	QTY	MOUNTING HEIGHT	ARRANGEMENT	LUM. LUMENS	LLF	DESCRIPTION	POLE
P2-S	1	25'-0" AFG	SINGLE	20575	0.900	GARDCO BY SIGNIFY, ECOFORM LED AREA LUMINAIRE, TYPE 2 WITH HOUSE SIDE SHIELD, ZERO UP-LIGHT (ECF-S-64L-1A-NW-G2-AR-2-x-HIS)	GARDCO BY SIGNIFY
P3	3	25'-0" AFG	SINGLE	26280	0.900	GARDCO BY SIGNIFY, ECOFORM LED AREA LUMINAIRE, TYPE 3, ZERO UP-LIGHT (ECF-S-64L-1A-NW-G2-AR-3-x)	GARDCO BY SIGNIFY
P3-S	4	25'-0" AFG	SINGLE	20935	0.900	GARDCO BY SIGNIFY, ECOFORM LED AREA LUMINAIRE, TYPE 3 WITH HOUSE SIDE SHIELD, ZERO UP-LIGHT (ECF-S-64L-1A-NW-G2-AR-3-x-HIS)	GARDCO BY SIGNIFY
P4	3	25'-0" AFG	SINGLE	27494	0.900	GARDCO BY SIGNIFY, ECOFORM LED AREA LUMINAIRE, TYPE 4, ZERO UP-LIGHT (ECF-S-64L-1A-NW-G2-AR-4-x)	GARDCO BY SIGNIFY
P4-S	10	25'-0" AFG	SINGLE	21559	0.900	GARDCO BY SIGNIFY, ECOFORM LED AREA LUMINAIRE, TYPE 4 WITH HOUSE SIDE SHIELD, ZERO UP-LIGHT (ECF-S-64L-1A-NW-G2-AR-4-x-HIS)	GARDCO BY SIGNIFY
P5W	3	25'-0" AFG	SINGLE	27330	0.900	GARDCO BY SIGNIFY, ECOFORM LED AREA LUMINAIRE, TYPE 5W, ZERO UP-LIGHT (ECF-S-64L-1A-NW-G2-AR-5W-x)	GARDCO BY SIGNIFY
P5W-D	7	25'-0" AFG	BACK-BACK	27330	0.900	GARDCO BY SIGNIFY, ECOFORM LED AREA LUMINAIRE, TYPE 5W, ZERO UP-LIGHT (ECF-S-64L-1A-NW-G2-AR-5W-x)	GARDCO BY SIGNIFY
W4	4	25'-0" AFG	SINGLE	2464	0.900	GARDCO BY SIGNIFY, PUREFORM LED WALL SCONCE, TYPE 4, ZERO UP-LIGHT (PWS-196L-450-NW-G2-4-EBPC-x)	

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$\begin{array}{c} 1.3 \\ \hline \\ 1.8 \\ \hline \\ 1.4 \\ \hline \\ 1.4 \\ \hline \\ 1.4 \\ \hline \\ 0.6 \\ \hline \\ \\ 1.4 \\ \hline \\ 0.6 \\ \hline \\ \\ 1.4 \\ \hline \\ 0.5 \\ \hline \\ 0.1 \\ \hline \hline \hline \\ 0.1 \\ \hline \hline \hline \\ 0.1 \\ \hline \hline \\ 0.1 \\ \hline \hline \hline \hline \\ 0.1 \\ \hline $	⁺ 0.0
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IFY, STRAIGHT SQUARE STEEL POLE, 22'-6" LENGTH (SSS-CB-4-11-22.5-D1-DT5) IFY, STRAIGHT SQUARE STEEL POLE, 22'-6" LENGTH (SSS-CB-4-11-22.5-D1-DT5) IIFY, STRAIGHT SQUARE STEEL POLE, 22'-6" LENGTH (SSS-CB-4-11-22.5-D1-DT5) IFY, STRAIGHT SQUARE STEEL POLE, 22'-6" LENGTH (SSS-CB-4-11-22.5-D2-DT5)

+00 ⁺0 0 0.0 0.0

GENERAL LIGHTING NOTES 0.0 1. THE GENERAL NOTES MUST BE INCLUDED AS PART OF THIS ENTIRE DOCUMENT PACKAGE AND ARE PART OF THE CONTRACT DOCUMENTS. THE GENERAL NOTES ARE REFERENCED HEREIN, AND THE ELECTRICAL CONTRACTOR MUST REFER TO THEM AND FULLY COMPLY WITH THESE NOTES, IN 0.0 \^0.0 THEIR ENTIRETY. THE ELECTRICAL CONTRACTOR MUST BE FAMILIAR WITH AND ACKNOWLEDGE [†]0.0 FAMILIARITY WITH ALL OF THE GENERAL NOTES AND ALL OF THE PLANS' SPECIFIC NOTES. 0.0 THE ELECTRICAL CONTRACTOR MUST COMPLY WITH ALL APPLICABLE CONTRACTOR REQUIREMENTS INDICATED IN THE PLANS, INCLUDING BUT NOT LIMITED TO GENERAL NOTES, GRADING AND UTILITY NOTES, SITE SAFETY, AND ALL AGENCY AND GOVERNMENTAL REGULATIONS. THE LIGHTING PLAN DEPICTS PROPOSED, SUSTAINED ILLUMINATION LEVELS CALCULATED USING DATA PROVIDED BY THE NOTED MANUFACTURER. ACTUAL SUSTAINED SITE ILLUMINATION LEVELS AND PERFORMANCE OF LUMINAIRES MAY VARY DUE TO VARIATIONS IN WEATHER, ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS, THE SERVICE LIFE OF EQUIPMENT AND LUMINAIRES AND OTHE [†]0.0 RELATED VARIABLE FIELD CONDITIONS. 4. THE LIGHTING VALUES AND CALCULATION POINTS DEPICTED ON THIS PLAN ARE ANALYZED ON A [†]0.0 HORIZONTAL GEOMETRIC PLANE AT GROUND LEVEL UNLESS OTHERWISE NOTED. ILLUMINATION

[†]0 0

LEVELS ARE SHOWN IN FOOT-CANDLES (FC). 0.0 THE LUMINAIRES, LAMPS AND LENSES MUST BE REGULARLY INSPECTED/MAINTAINED TO ENSURE THAT THEY FUNCTION PROPERLY. THIS WORK SHOULD INCLUDE, BUT IS NOT LIMITED TO, VISUAL 0.0 OBSERVATION, CLEANING OF LENSES, AND RE-LAMPING ACCORDING TO MANUFACTURER RECOMMENDATIONS, FAILURE TO FOLLOW THE ABOVE STEPS COULD RESULT IN IMPROPER LIGHT [†]0.0 DISTRIBUTION AND FAILURE TO COMPLY WITH THE APPROVED DESIGN. UPON COMPLETION AND OWNER'S ACCEPTANCE OF THE WORK, THE ABOVE RESPONSIBILITIES BECOMES SOLELY THE OWNER'S. THE LIGHTING PLAN IS INTENDED TO SHOW THE LOCATIONS AND TYPE OF LUMINAIRES. POWER SYSTEM, CONDUITS, WIRING AND OTHER ELECTRICAL COMPONENTS ARE SOLELY THE ⁺0.0 ARCHITECT'S. MECHANICAL ENGINEER'S AND/OR ELECTRICAL CONTRACTOR'S RESPONSIBILIT INDICATED IN THE CONSTRUCTION CONTRACT DOCUMENTS. THE CONTRACTOR MUST 0.0 COORDINATE WITH THE PROJECT ARCHITECT AND/OR ELECTRICAL ENGINEER REGARDING ANY AND ALL POWER SOURCES AND TIMING DEVICES NECESSARY TO MEET THE DESIGN INTENT. 0.0 THESE ITEMS MUST BE INSTALLED AS REQUIRED BY STATE AND LOCAL REGULATIONS. CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF LIGHTING FIXTURES AND 0.0 APPURTENANCES IN ACCORDANCE WITH ALL APPLICABLE BUILDING AND ELECTRICAL CODES. THE ELECTRICAL CONTRACTOR MUST BRING IMMEDIATELY, IN WRITING, ANY LIGHT LOCATIONS ×⁺₀.₀ THAT CONFLICT WITH DRAINAGE, UTILITIES, OR OTHER STRUCTURE(S) TO THE PROFESSIONAL OF RECORD'S ATTENTION, PRIOR TO THE START OF CONSTRUCTION. 8. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO ENSURE THAT SHIELDING AND OR ROTATED OPTICS ARE INSTALLED AS INDICATED ON THE PLAN IN ORDER TO ACHIEVE THE LIGHTING LEVELS 0.0 THE REVIEWING AGENCY APPROVED.

9. UPON OWNER'S ACCEPTANCE OF THE COMPLETED PROJECT, THE OWNER SHALL BE RESPONSIBI 0.0 FOR ALL MAINTENANCE, SERVICING, REPAIR AND INSPECTION OF THE LIGHTING SYSTEM AND ALL OF ITS COMPONENTS AND RELATED SYSTEMS, TO ENSURE ADEQUATE LIGHTING LEVELS ARE PRESENT AND FUNCTIONING AT ALL TIMES. [†]0.0 10. THE LIGHT LOSS FACTORS (LLF) DEPICTED IN THE LUMINAIRE SCHEDULE ON THIS PLAN ARE BASED 0.0 0.0 0.0

ON DATA PROVIDED BY THE MANUFACTURER FOLLOWING IES LM-80-08 TESTING. THE LIGHT LEVELS DEPICTED ON THIS PLAN WERE CALCULATED BASED ON THE LLF LISTED IN THE LUMINAI SCHEDULE. 11. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE SUBMITTALS TO BOHLER FOR REVIEW AND APPROVAL. SUBSTITUTION REQUESTS MUST BE ACCOMPANIED BY A HORIZONTAL PHOTOMETRIC STUDY DEMONSTRATING THAT THE LUMINAIRE(S) IN QUESTION WILL MEET THE DESIGN INTENT OF THIS PLAN. SUBSTITUTION REQUESTS WITHOUT A PHOTOMETRIC STUDY WIL BE REJECTED. 12. LIGHT POLE FOUNDATIONS ARE SHOWN ON THE PLAN IN THE INTENDED LOCATION BASED ON THE LIGHTING CALCULATIONS, UNLESS OTHERWISE NOTED. LIGHT SYMBOLS ARE SHOWN LARGER THAN ACTUAL SIZE, HOWEVER FOUNDATION SIZE IS SHOWN AT ACTUAL SIZE. THIS PLAN TO BE UTILIZED ⁺0.0 FOR LIGHTING PURPOSES

[†]0.0

ONLY

SCALE: 1" = 20'

10 5 0



0.0

REVISIONS REV DATE COMMENT 1 01/17/2025 PER TOWNSHIP / SJA/ SEWER COMMENTS LB/S ATTENTION ALL CONTRACTORS: LOCATIONS OF ALL EXISTING UTILITIES SHOWN HEREON HAVE BEEN DEVELOPED FROM UTILITY COMPANY RECORDS AND/OR ABOVE-GROUND INSPECTION OF T SITE. COMPLETENESS OR ACCURACY OF TYPE, SIZE, DEPTH OR HORIZONTAL LOCATION OF UNDERGROUND FACILITIES OR STRUCTURES CANNOT BE GUARANTEED. PURSUANT TO REQUIREMENTS OF PENNSYLVANIA LEGISLATIVE ACT NUMBER 287 OF 1974 A AMENDED BY ACT 50 OF 2017, CONTRACTORS MUST VERI OCATION AND DEPTH OF ALL UNDERGROUND UTILITIES A FACILITIES PRIOR TO START OF WORK. WWW.PA1CALL.ORG #20230733143 PROJECT No.: PAC220255.00-1 DRAWN BY: SJA / AM CHECKED BY: LB / SP DATE: 10/04/2024 CAD I.D.: P-CIVL-LLG1 PROJECT:

CONDITIONAL USE / SUBDIVISION / PRELIMINARY LAND DEVELOPMENT PLANS — FOR —

MAIN LINE HEALTH, INC.

PROPOSED MEDICAL CENTER

5030 HORSESHOE PIKE CALN TOWNSHIP CHESTER COUNTY, PA UPI 32-2-87 D.B. 9731, PG. 2246

BOH

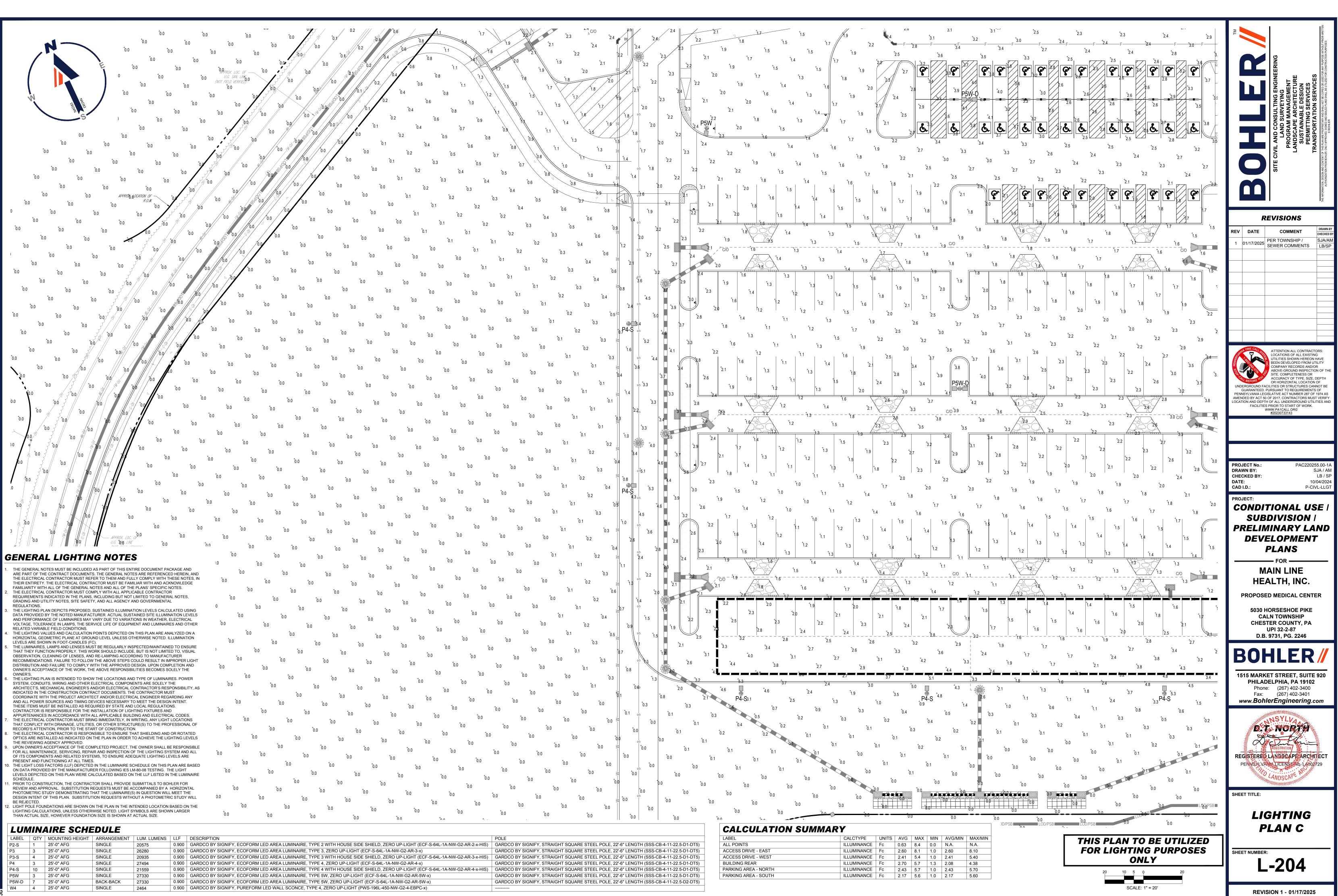
1515 MARKET STREET, SUITE 920 PHILADELPHIA, PA 19102 Phone: (267) 402-3400 Fax: (267) 402-3401 www.BohlerEngineering.com



SHEET TITLE:



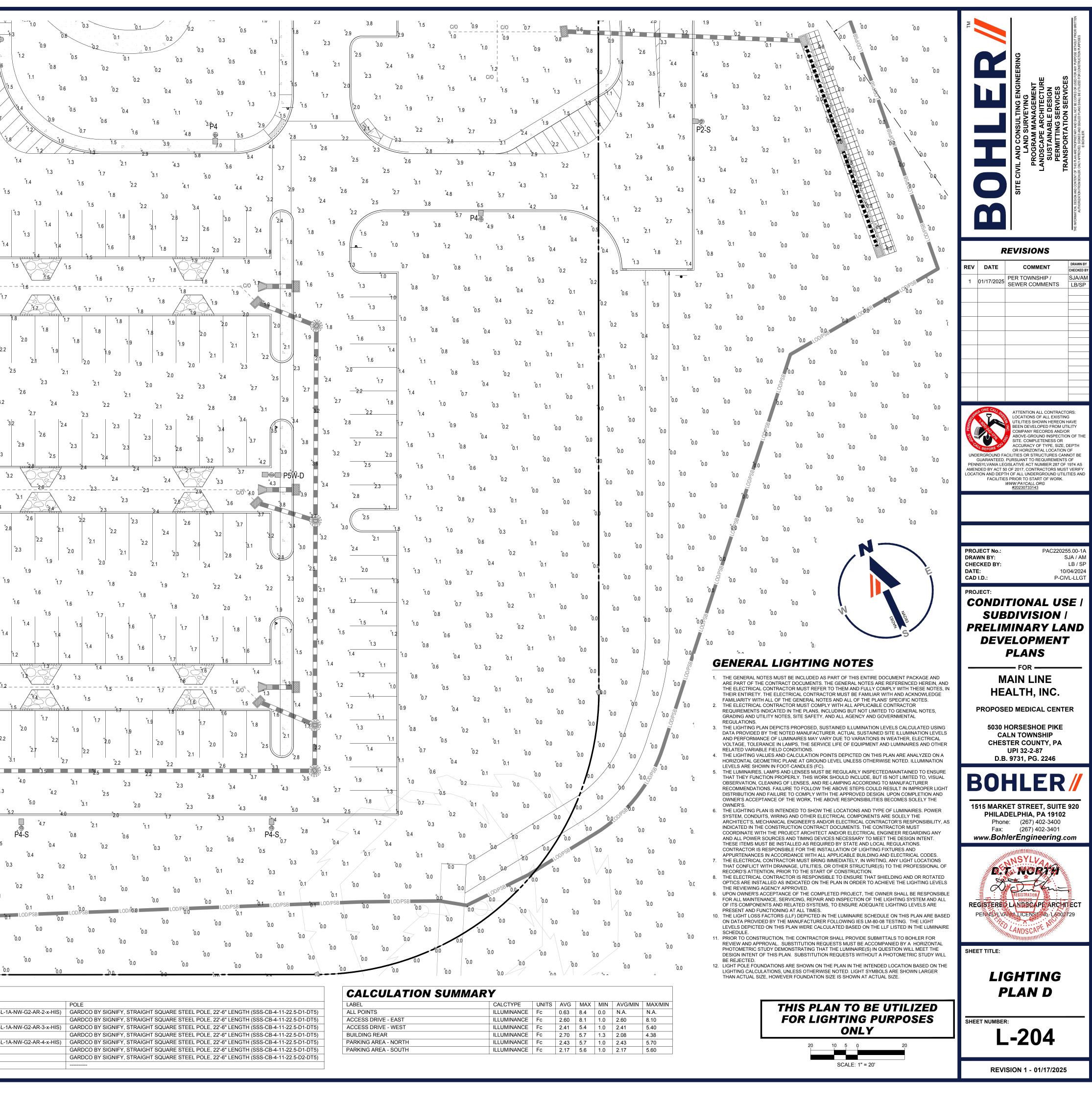
SHEET NUMBER: **L-203**



LABEL	QTY	MOUNTING HEIGHT	ARRANGEMENT	LUM. LUMENS	LLF	DESCRIPTION
P2-S	1	25'-0" AFG	SINGLE	20575	0.900	GARDCO BY SIGNIFY, ECOFORM LED AREA LUMINAIRE, TYPE 2 WITH HOUSE SIDE SHIELD, ZERO UP-LIGHT (ECF-S-64L-1A-
P3	3	25'-0" AFG	SINGLE	26280	0.900	GARDCO BY SIGNIFY, ECOFORM LED AREA LUMINAIRE, TYPE 3, ZERO UP-LIGHT (ECF-S-64L-1A-NW-G2-AR-3-x)
P3-S	4	25'-0" AFG	SINGLE	20935	0.900	GARDCO BY SIGNIFY, ECOFORM LED AREA LUMINAIRE, TYPE 3 WITH HOUSE SIDE SHIELD, ZERO UP-LIGHT (ECF-S-64L-1A-
P4	3	25'-0" AFG	SINGLE	27494	0.900	GARDCO BY SIGNIFY, ECOFORM LED AREA LUMINAIRE, TYPE 4, ZERO UP-LIGHT (ECF-S-64L-1A-NW-G2-AR-4-x)
P4-S	10	25'-0" AFG	SINGLE	21559	0.900	GARDCO BY SIGNIFY, ECOFORM LED AREA LUMINAIRE, TYPE 4 WITH HOUSE SIDE SHIELD, ZERO UP-LIGHT (ECF-S-64L-1A-
P5W	3	25'-0" AFG	SINGLE	27330	0.900	GARDCO BY SIGNIFY, ECOFORM LED AREA LUMINAIRE, TYPE 5W, ZERO UP-LIGHT (ECF-S-64L-1A-NW-G2-AR-5W-x)
P5W-D	7	25'-0" AFG	BACK-BACK	27330	0.900	GARDCO BY SIGNIFY, ECOFORM LED AREA LUMINAIRE, TYPE 5W, ZERO UP-LIGHT (ECF-S-64L-1A-NW-G2-AR-5W-x)
W4	4	25'-0" AFG	SINGLE	2464	0.900	GARDCO BY SIGNIFY, PUREFORM LED WALL SCONCE, TYPE 4, ZERO UP-LIGHT (PWS-196L-450-NW-G2-4-EBPC-x)

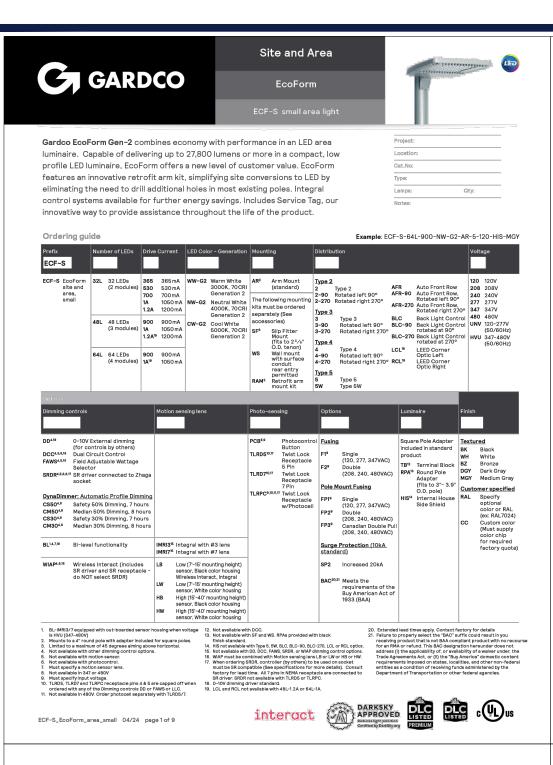
$\begin{array}{c c} & & & & & & \\ \hline & & & & \\ \hline & & & & \\ \hline & & & &$	$^{+}2.3$ $^{+}2.2$ $^{+}2.6$ F $^{+}2.3$ F F $^{-}$ F $^{-}$ F $^{-}$ F $^{-}$ F $^{-}$ F $^{-}$ $^{+}2.4$	$^{+2.2}$ $F^{+2.5}$ $F^{-2.5}$ $F^{+2.5}$ $F^{-3.1}$	⁺ 3.0 F F * <u>3.0</u> F	2.3 1.6 2.3 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.7
^{3.4} ^{3.5} ^{3.6} ^{3.5} ^{3.7} ^{3.5} ^{3.7} ^{3.7} ^{3.7}			*3.2 *	⁺ 3.2 ⁺ 2.1 2.1 6 6 6 7 7 7 7 7 7 7 7 7 7
+3.3 +3.5 +3.9 +3.8 +3.8 +3.4 +3.4 +3.4 +3.4 +3.4 +3.4 +3.3	31 +2.5 +2.6 	⁺ 2.5 + <u>7</u> 2.7 + <u>7</u> 2.7 + <u>7</u> 2.7 + <u>7</u> 3.3 - <u>7</u> 2.9	⁺ 3.7 P5W-D 	⁺ 3.0 ⁺ 2.7 ⁺ 2.3 ⁺ 1.9 ⁺ 1.7
	⁺ 2.7 ⁺ 2.7 ⁺ 2.5 ⁺ 2.5 ⁺ 2.5 ⁺ 2.5 ⁺ 2.5 ⁺ 2.5	⁺ 26 ⁺ 26 ⁺ 26 ⁺ 26 ⁺ 26 ⁺ 26 ⁺ 31 ⁺ 3 ⁺ 3 		⁺ 3.2 ⁺ 2.5 ⁺ 2.5 ⁺ 1.9 ⁺ 1.5
$^{+}3.2$ $^{+}3.1$ $^{+}3.4$ $^{+}3.0$ $^{+}2.9$ $^{+}2.9$	$^{+}2.8$ $^{+}2.4$ $^{+}2.4$ $^{+}2.4$ $^{+}2.4$ $^{+}2.4$ $^{+}2.3$	$\begin{bmatrix} 1 & \boxed{-\frac{7}{2.5}} & 1 & \boxed{-\frac{7}{3.5}} \\ & \frac{1}{2.5} & \frac{1}{2.5} \\ & \frac{1}{2.3} & \frac{1}{2.6} \end{bmatrix}$		2.5 $^{+}2.2$ $^{+}2.6$ $^{+}1.7$ $^{+}2.8$ $^{+}1.9$
$^{+}2.7$ $^{+}2.7$ $^{+}2.7$ $^{+}2.7$ $^{+}2.4$ $^{+}2.4$ $^{+}2.4$	2.0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	⁺ 2.8 ⁺	$^{+}2.1$ $^{+}1.5$ $^{+}2.3$ $^{+}1.6$ $^{+}1.8$
⁺ 1.9 ⁺ 1.9 ⁺ 1.7 ⁺ 1.9 ⁺ 1.8 ⁺ 1.7 ⁺ 1.8 ⁺ 1.9 ⁺ 1.9	$\begin{array}{c c} & & & & & & \\ \hline & & & & & \\ 1 & & & & \\ 7 & & & & \\ 7 & & & & \\ 7 & & & &$	^{1.7} 2.1 [†] 1.9 [†] 2.0 [†] 1.8 [†] 1.9 [†] 1.9	0 ⁺ 2.2 ⁺ 2.1 ⁺ 2.1 ⁺ 1.9 ⁺ 1.9	$ \begin{array}{c c} & \uparrow 1(.9 \\ & & & \uparrow 1.5 \\ & & & \uparrow 1.6 \\ & & & & \uparrow 1.6 \\ & & & & \uparrow 1.4 \end{array} $
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	⁺ 1.6 ⁺ 1.5 ⁺ 1.4	1.5 ⁺ 1.6 ¹ .7 1.5 ⁺ 1.6 ⁺ 1.6 ⁺ 1.4 ⁺ 1.6	⁺ 1.8 ⁺ 1.8	$\begin{array}{c c c c c c c c c c c c c c c c c c c $
5/0 ⁺ 1.6 ^{1.5} + 1.5 ^{1.5} + 1.5 ⁺ 1.5 ⁺ 1.5	$\begin{array}{c} 1.5 \\ \hline C/0 \\ \hline 1.5 \\ \hline 1.3 \\ \hline 1.5 \\ \hline 1.5 \\ \hline 1.3 \\ \hline 1.3 \\ \hline 1.5 \\ \hline 1.3 \\ \hline 1.5 \\ \hline 1.3 \\ \hline 1.3 \\ \hline 1.5 \\ \hline 1.3 \\ \hline 1.5 \\ \hline 1.5 \\ \hline 1.3 \\ \hline 1.5 \\ 1.5 \\ \hline 1$	1.4 $1.51.31.2$ 1.4	[†] 1.7 [†] 1.8 [†] 1.5 [†] 1.6	1.8 $$
⁺ 1.6 ⁺ 1.7 ⁺ 1.8 ⁺ 1.8 ⁺ 1.6 ⁺ 1.7 ⁺ 1.8 ⁺ 1.8	$\begin{bmatrix} 1.5 \\ 1.5 \\ 1.4 \\ 1.5 \\ 1.4 \\ 1.3 \\ 1.4 \\ 1.4 \\ 1.3 \\ 1.4 \\ 1.3 \\ 1.4 \\ 1.3 \\ 1.4 \\ 1.3 \\ 1.2 \\ 1.4 \\ 1.3 \\ 1.2 \\ 1.4 \\ 1.3 \\ 1.2 \\ 1.4 \\ 1.$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	⁺ 1.6 [‡] 2.0	⁺ 2.0 ⁺ 2.0 ⁺ 2.0 ⁺ 2.1 ⁺ 2.2
$\begin{array}{c} 1.9 \\ \hline 2.2 \\ \hline 2.3 \\ \hline \\ \end{array} $	$^{+}1.6$ $^{+}1.4$ $^{+}1.7$ $^{+}1.2$ $^{+}1.2$ $^{+}1.2$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	⁺ 1.7 ⁺ 2.5	$\begin{vmatrix} & & & & & \\ 2.4 & & & & & \\ & & & & & & \\ & & & & & & $
$^{+}2.6$ $^{+}2.9$ $^{+}2.9$ $^{+}2.9$ $^{+}2.9$ $^{+}2.9$ $^{+}2.6$ $^{+}3.1$ $^{+}3.2$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	⁺ 1.2 ⁺ 1.3	⁺ 2.1 ⁺ 3.1 ⁺ 1.8 ⁺ 2.9	$^{+}3.0$ $^{+}3.1$ $^{+}3.2$ $^{+}3.2$ $^{+}3.2$ $^{+}3.7$ $^{+}3.7$ $^{+}3.7$ $^{+}3.7$
*3.5 *3.7 *3.7 *3.8 *3.6 *3.8 *3.4 *3.4 *3.4 *3.4 *3.4 *3.4 *3.4 *3.4	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	[†] 1.2 [†] 1.3 [†] 1.1 [†] 1.7 [†] 1.7	⁺ 2.0 ⁺ 3.3	⁺ 3.8 ⁺ 3.8 ⁺ 3.8 ⁺ 3.6 ⁺ 3.6 ⁺ 3.6 ⁺ 3.6 ⁺ 3.6 ⁺ 3.3
2 P5W-D 3.5	¹ 2.8 ¹ 2.0 ¹ 1.2 ¹	1.0 1.5 1.1 1.2	1.8 2.9 *2.0 *3.1	<u>+4.0</u> 5 <u>+4.2</u> <u>+3.7</u> <u>+4.0</u> <u>+3.7</u>
⁺ 4.1 ⁺ 3.8 ⁺ 3.8 ⁺ 3.7 ⁺ 3.8 ⁺ 3.8 ⁺ 3.7 ⁺ 3.8 ⁺	$\frac{13}{1.6}$	⁺ 1.0 ⁺ 1.3	⁺ 2.1 ⁺ 2.7 ⁺ 3.4 ⁺ 3.4 ⁺ 3.4 ⁺ 3.2 ⁺ 3.4 ⁺ 3.4 ⁺ 3.4 ⁺ 3.4	$\begin{array}{c c} -& -& -& -& -& -& -& -& -& -& -& -& -& $
$^{+}3.2$ $^{+}3.0$ $^{+}$	[†] 2.1 [†] 1.3	[†] 1.1 [†] 1.0 [†] 1.2 [†] 1.4	$\begin{vmatrix} & & & & & & \\ & & & & & & \\ & & & & & $	⁺ 2.7 ⁺ 2.8 ⁺ 2.8 ⁺ 2.6 ⁺ 2.8
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		[†] 1.0 [†] 1.2 1.1 [†] 1.0		$\begin{array}{c c} & & & & & & & & \\ & & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & \\$
⁺ 2.0 ⁺ 1.9 ⁺ 1.7 ⁺ 1.7 ⁺ 1.7	⁺ 1.7 ⁺ 1.3	$\begin{array}{cccc} & & & & & ^{\dagger}1.0 & & ^{\dagger}1.2 \\ & & ^{\dagger}1.0 & & & ^{\dagger}1.1 & & \\ & & & & ^{\dagger}1.0 & & & & & ^{\dagger}1.2 \\ & & & & & & & & & & & ^{\dagger}1.2 \\ & & & & & & & & & & & & \\ & & & & & $		⁺ 1.8 ⁺ 1.8 ⁺ 1.7 ⁺ 1.6 ⁺ 1.5
$\begin{bmatrix} 1 & 1 & 1 & 1 & 1 & 1 \\ 1 & 1 & 1 & 1 &$			$\begin{bmatrix} & & & & & & \\ & & & & & \\ 1.3 & & & & & \\ & & & & & \\ & & & & & 1.4 \\ & & & & & & \\ & & & & & & 1.4 \end{bmatrix}$	$ \stackrel{^{+}1.5}{\stackrel{^{+}1.5}{ }} \begin{pmatrix} \stackrel{^{+}1.5}{ } & \stackrel{^{+}1.4}{ } \\ \stackrel{^{+}1.3}{ } & \stackrel{^{+}1.4}{ } \end{pmatrix} $
$t_{1.4}$ $t_{1.2}$ $t_{1.4}$ $t_{1.2}$ t_{1	1.3 1.2	⁺ 1.2 ⁺ 1.3 ⁺ 1.3		Č/O
1.3 ⁺ 1.2 ⁺ 1.2	$^{+}1.2$ $^{+}3.3$ $^{+}1.3$ $^{+}1.6$ $^{+}1.6$	[†] 1.5 [†] 1.5 [†] 1.7 [†] 1.9 [†] 1.8	1.6 1.7	$\begin{array}{c c} & & & & & & \\ \hline 1.3 & & & & & \\ \hline 1.5 & & & & & \\ \hline 1.5 & & & & & \\ \hline \\ 1.7 & & & & & \\ \hline \\ 1.7 & & & & & \\ \hline \\ 1.7 & & & & \\ \hline \\ \hline \\ 1.7 & & & & \\ \hline \\ 1.7 & & & \\ \hline \end{array}$
2.1 $+1.7$ $+1.4$ $+1.3$ $+1.3$ $+1.5$ $+1.5$ $+1.5$	⁺ 1.4 ⁺ 1.5 ⁺ 2.0 ⁺ 2.0	L.L		2.0 \uparrow 1.8 \uparrow 2.2 \uparrow 2.3 \uparrow 2.2 \uparrow 3.3
$^{+2.7}$ $^{+1.8}$ $^{+1.4}$ $^{+2.3}$ $^{+1.5}$ $^{+3.2}$ $^{+1.8}$ $^{+1.4}$	⁺ 1.5 ⁺ 2.6 ⁺ 1.5 ⁺ 2.1 ⁺ 1.7 ⁺ 3.4	[†] 3.9 [†] 3.1 [†] 4.0 [†] 4.2	[±] 2.5 [±] 2.2	⁺ 2.2 ⁺ 3.1 ⁺ 2.1 ⁺ 2.9 ⁺ 2.4 ⁺ 4.3
$\begin{array}{c} 1.3 \\ \hline 1.3 \\ \hline 1.4 \\ \hline 1.4 \\ \hline 1.6 \\ \hline$	<u>13</u> <u>+a</u> <u>1.0</u> <u>+</u> 1.7		${2.3}$ ${1}$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
$^{+}1.5$ $^{+}0.7$ $^{+}0.2$.6 $^{+}0.2$ $^{+}0.1$ $^{+}0.2$ $^{+}0.1$	0.3 [†] 0.2 [†] 0.2 [†] 0.2	[⁺] 0.5 [⁺] 0.3 [⁺] 0.2	[†] 0.3 [†] 0.5).2 [†] 0.1 [†] 0.1 [†] 0.	
⁺ 0.3 ⁺ 0.1 ⁺ 0.0 ⁺ 0.0 ⁺ 0.0 ⁺ 0.0	0.0 [†] 0.1 [†] 0.0 [†] 0.1 [†] 0.0 [†] 0.0 [†] 0.0 [†] 0.0	¹ 0.2 ⁺ 0.2 ⁺ 0.2 ⁺ 0.1 ⁺ 0.1 [−] 0.1	0.1 [°] 0.0 [°] 0.0 [°] 0.0 [°] 0.0	[†] 0.1 [†] 0.2 [†] 0.0 [†] 0.1 [†] 0.0 [†] 0.1
⁺ 0.1 ⁺ 0.0 ⁺ 0.0 ⁺ 0.0	⁺ 0.0 ⁺ 0.0 0.0 ⁺ 0.0 ⁺ 0.0	[†] 0.1 [†] 0.1 [†] 0.1 [†] 0.1 [†] 0.1 [†] 0.0 [†] 0.0 [†] 0.0 [†] 0.0	.1 [†] 0.0 [†] 0.0 [†] 0.0 [†] 0.0 [†] 0.0 8Sd	⁺ 0.0 ⁺ 0.1 0 ⁺ 0.0 LOD/PSB ⁺ 0.1 1001 ⁺ 0.0 ⁺ 0.0
⁺ 0.0 ⁺ 0.0 ⁺ 0.0 ⁺ 0.0 ⁺ 0.0 ⁺ 0.0 ⁺ 0.0 Lop/PSB Lop/PSB Lop/PSB	[†] 0.0 [†] 0.0 [†] 0.0 [†] 0.0 [†] 0.0	[†] 0.0	¹ 0.0 0.0 ¹ 0.0 0 ¹ 0.0 ¹ 0.0 ¹ 0.0	⁺ 0.0 ⁺
	0 <u>0</u> 0 <u>0</u> +	0.0 <u>*0.0 – –</u>	0.0 0.0	⁺ 0.0 ⁺ 0.0

LUN	/IN/	AIRE SCHE	DULE			
LABEL	QTY	MOUNTING HEIGHT	ARRANGEMENT	LUM. LUMENS	LLF	DESCRIPTION
P2-S	1	25'-0" AFG	SINGLE	20575	0.900	GARDCO BY SIGNIFY, ECOFORM LED AREA LUMINAIRE, TYPE 2 WITH HOUSE SIDE SHIELD, ZERO UP-LIGHT (ECF-S-64L-
P3	3	25'-0" AFG	SINGLE	26280	0.900	GARDCO BY SIGNIFY, ECOFORM LED AREA LUMINAIRE, TYPE 3, ZERO UP-LIGHT (ECF-S-64L-1A-NW-G2-AR-3-x)
P3-S	4	25'-0" AFG	SINGLE	20935	0.900	GARDCO BY SIGNIFY, ECOFORM LED AREA LUMINAIRE, TYPE 3 WITH HOUSE SIDE SHIELD, ZERO UP-LIGHT (ECF-S-64L-
P4	3	25'-0" AFG	SINGLE	27494	0.900	GARDCO BY SIGNIFY, ECOFORM LED AREA LUMINAIRE, TYPE 4, ZERO UP-LIGHT (ECF-S-64L-1A-NW-G2-AR-4-x)
P4-S	10	25'-0" AFG	SINGLE	21559	0.900	GARDCO BY SIGNIFY, ECOFORM LED AREA LUMINAIRE, TYPE 4 WITH HOUSE SIDE SHIELD, ZERO UP-LIGHT (ECF-S-64L-
P5W	3	25'-0" AFG	SINGLE	27330	0.900	GARDCO BY SIGNIFY, ECOFORM LED AREA LUMINAIRE, TYPE 5W, ZERO UP-LIGHT (ECF-S-64L-1A-NW-G2-AR-5W-x)
P5W-D	7	25'-0" AFG	BACK-BACK	27330	0.900	GARDCO BY SIGNIFY, ECOFORM LED AREA LUMINAIRE, TYPE 5W, ZERO UP-LIGHT (ECF-S-64L-1A-NW-G2-AR-5W-x)
W4	4	25'-0" AFG	SINGLE	2464	0.900	GARDCO BY SIGNIFY, PUREFORM LED WALL SCONCE, TYPE 4, ZERO UP-LIGHT (PWS-196L-450-NW-G2-4-EBPC-x)



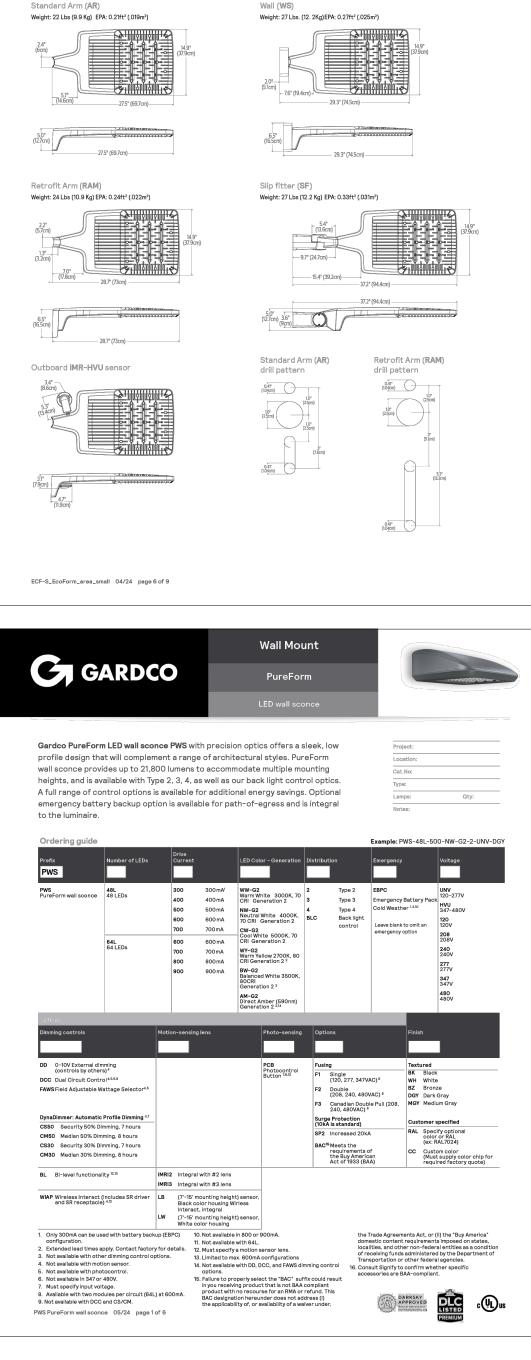
	GARDCO BY SIGNIFY, STRAIGHT SQUARE STEEL POLE, 22'-6" LENGTH (SSS-CB-4-11-22.5-D2-DT5)
	GARDCO BY SIGNIFY, STRAIGHT SQUARE STEEL POLE, 22'-6" LENGTH (SSS-CB-4-11-22.5-D1-DT5)
N-G2-AR-4-x-HIS)	GARDCO BY SIGNIFY, STRAIGHT SQUARE STEEL POLE, 22'-6" LENGTH (SSS-CB-4-11-22.5-D1-DT5)
	GARDCO BY SIGNIFY, STRAIGHT SQUARE STEEL POLE, 22'-6" LENGTH (SSS-CB-4-11-22.5-D1-DT5)
N-G2-AR-3-x-HIS)	GARDCO BY SIGNIFY, STRAIGHT SQUARE STEEL POLE, 22'-6" LENGTH (SSS-CB-4-11-22.5-D1-DT5)
	GARDCO BY SIGNIFY, STRAIGHT SQUARE STEEL POLE, 22'-6" LENGTH (SSS-CB-4-11-22.5-D1-DT5)
N-G2-AR-2-x-HIS)	GARDCO BY SIGNIFY, STRAIGHT SQUARE STEEL POLE, 22'-6" LENGTH (SSS-CB-4-11-22.5-D1-DT5)
	POLE

LABEL	CALCTYPE	UNITS	AVG	MAX	
ALL POINTS	ILLUMINANCE	Fc	0.63	8.4	(
ACCESS DRIVE - EAST	ILLUMINANCE	Fc	2.60	8.1	•
ACCESS DRIVE - WEST	ILLUMINANCE	Fc	2.41	5.4	•
BUILDING REAR	ILLUMINANCE	Fc	2.70	5.7	•
PARKING AREA - NORTH	ILLUMINANCE	Fc	2.43	5.7	•
PARKING AREA - SOUTH	ILLUMINANCE	Fc	2.17	5.6	•
					_



ECF-S EcoForm small Area luminaire

Dimensions



ECF-S EcoForm small Area luminaire

EcoForm Accessories²¹ (ordered separately, field installed)

Standard optic	orientation
HIS-32-H ²⁰	Internal House Side Shield for 32 LEDs (2 modules)
HIS-48-H ²⁰	Internal House Side Shield for 48 LEDs (3 modules)
HIS-64-H ²⁰	Internal House Side Shield for 64 LEDs (4 modules)
Optic at 90 or	270 orientation
HIS-32-V ²⁰	Internal House Side Shield for 32 LEDs (2 modules)
HIS-48-V ²⁰	Internal House Side Shield for 48 LEDs (3 modules)
HIS-64-V ²⁰	Internal House Side Shield for 64 LEDs (4 modules)
	ole with Type 5 or 5W optics. nify to confirm whether specific accessories are BAA-compliant

ECF-BD-G2 Bird deterrent ECF-RAM-G2-(F) Retrofit Arm mount kit ECF-SF-G2-(F) Slip Fitter Mount (fits to 2 3/8" O.D. tenon) ECF-WS-G2-(F) Wall mount with surface conduit rear entry permitted

Catalog Number	12NC
RS-ECF-S-32L-1A-NW-G2-AR-3-UNV-BZ	912401466002
RS-ECF-S-32L-1A-NW-G2-AR-3-UNV-MGY	912401466003
RS-ECF-S-32L-1A-NW-G2-AR-3-UNV-BK	912401534554
RS-ECF-S-32L-1A-NW-G2-AR-4-UNV-BZ	912401466004
RS-ECF-S-32L-1A-NW-G2-AR-4-UNV-MGY	912401466005
RS-ECF-S-32L-1A-NW-G2-AR-4-UNV-BK	912401534555
RS-ECF-S-32L-1A-NW-G2-AR-5-UNV-BZ	912401466006
RS-ECF-S-32L-1A-NW-G2-AR-5-UNV-MGY	912401466007
RS-ECF-S-32L-1A-NW-G2-AR-5-UNV-BK	912401534556
RS-ECF-S-48L-1A-NW-G2-AR-3-UNV-BZ	912401466008
RS-ECF-S-48L-1A-NW-G2-AR-3-UNV-MGY	912401466009
RS-ECF-S-48L-1A-NW-G2-AR-3-UNV-BK	912401534557
RS-ECF-S-48L-1A-NW-G2-AR-4-UNV-BZ	912401466010
RS-ECF-S-48L-1A-NW-G2-AR-4-UNV-MGY	912401466011
RS-ECF-S-48L-1A-NW-G2-AR-4-UNV-BK	912401534558
RS-ECF-S-48L-1A-NW-G2-AR-5-UNV-BZ	912401466012
RS-ECF-S-48L-1A-NW-G2-AR-5-UNV-MGY	912401466013
RS-ECF-S-48L-1A-NW-G2-AR-5-UNV-BK	912401534559
RS-ECF-S-64L-1A-NW-G2-AR-3-UNV-BZ	912401466014

IRT9015	Handheld remote for grouping and configuration of Wireless Interact WIAP (at least 1 required per site or use the Interact Pro App).									
Pole Top	Fitt	ers								
(F) = Specif	y finisl	h								
PTF2 - Pole	e top fi	tter fits 23/8-21/2" OD x 4" depth tenon								
PTF2-1-90	-(F)	1 luminiare at 90°								
PTF2-2-90	-(F)	2 luminiares at 90°								
PTF2-2-180	0-(F)	2 luminiares at 180°								
PTF2-3-90	-(F)	3 luminiares at 90°								
PTF2-4-90	-(F)	4 luminiares at 90°								
PTF2-3-120	0-(F)	3 luminiares at 120°								
PTF3 - Pole	e top fi	tter fits 3-31⁄2" OD x 6" depth tenon								
PTF3-1-90	-(F)	1 luminiare at 90°								
PTF3-2-90	-(F)	2 luminiares at 90°								
PTF3-2-180	0-(F)	2 luminiares at 180°								
PTF3-3-90	-(F)	3 luminiares at 90°								
PTF3-4-90	I-(F)	4 luminiares at 90°								
PTF3-3-120	0-(F)	3 luminiares at 120°								
e following	config	jurations will ship in 2 weeks):								
Catalog	Num	ber	12NC							
RS-ECF-	S-64L	-1A-NW-G2-AR-3-UNV-BK	91240153456							
RS-ECF-	S-64L	-1A-NW-G2-AR-4-UNV-BZ	912401466016							
RS-ECF-	S-64L	-1A-NW-G2-AR-4-UNV-MGY	912401466017							
	c		01040150450							

Controls Accessories

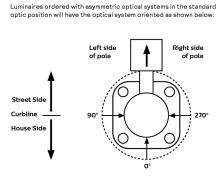
RS-ECF-S-64L-1A-NW-G2-AR-3-UNV-BK 912401534560	
RS-ECF-S-64L-1A-NW-G2-AR-4-UNV-BZ 912401466016	
RS-ECF-S-64L-1A-NW-G2-AR-4-UNV-MGY 912401466017	
RS-ECF-S-64L-1A-NW-G2-AR-4-UNV-BK 912401534561	
RS-ECF-S-64L-1A-NW-G2-AR-5-UNV-BZ 912401466018	
RS-ECF-S-64L-1A-NW-G2-AR-5-UNV-MGY 912401466019	
RS-ECF-S-64L-1A-NW-G2-AR-5-UNV-BK 912401534562	
RS-ECF-RAM-G2-DGY 912401466487	
RS-ECF-RAM-G2-MGY 912401466488	
RS-ECF-RAM-G2-WH 912401466485	
RS-ECF-RAM-G2-BZ 912401466486	
RS-ECF-RAM-G2-BK 912401466484	
RS-HIS-32-H 912401466489	
RS-HIS-48-H 912401466491	
RS-HIS-64-H 912401466493	

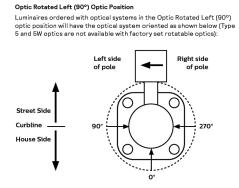
ECF-S_EcoForm_area_small 04/24 page 2 of 9

ECF-S EcoForm small Area luminaire

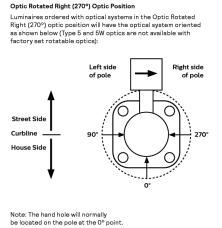
Optical Orientation Information

Standard Optic Position



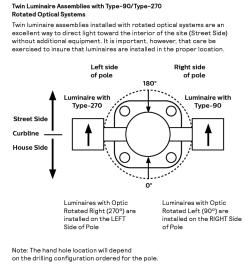


Note: The hand hole will normally be located on the pole at the 0° point.

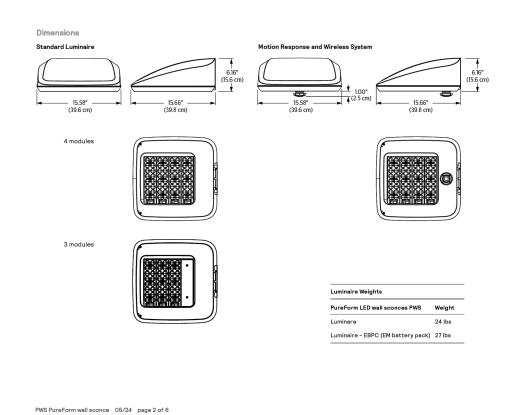


ECF-S_EcoForm_area_small 04/24 page 7 of 9

Note: The hand hole will normally be located on the pole at the 0° point.

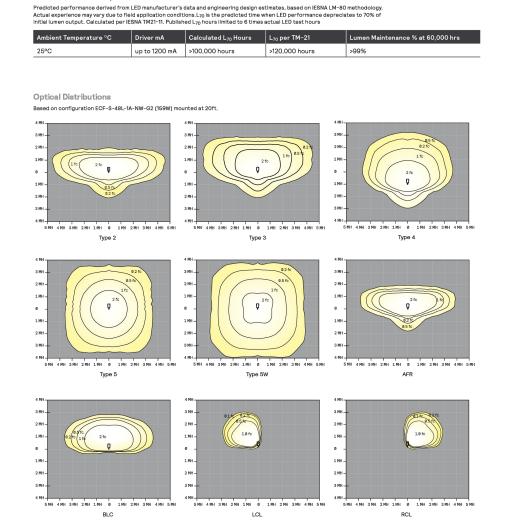


PWS PureForm LED wall sconce Wall mount PureForm PWS Accessories¹⁶ (ordered separately) Mounting Accessories Controls Accessories _____ PWS-WS-G2 Wall mounted box for surface conduit painted black IRT9015 Handheld remote for grouping and configuration of Wireless Interact WIAP (at least 1 required per site or use the Interact Pro App). 1/2 - 14 NPSM CONDUIT BACKFEED 3/4 - 14 NPSM _____ CONDUIT BACKFEED ſ**₩**ŢŢ 2.25* (6.7cm) 3/4 - 14 NPSM _____ CONDUIT TOP FEED / 3/4 - 14 NPSM Ê Ó. + 4.00" (10.2cm) + FOUR (20.38" (20.95cm) HOLES FOR MOUNTING



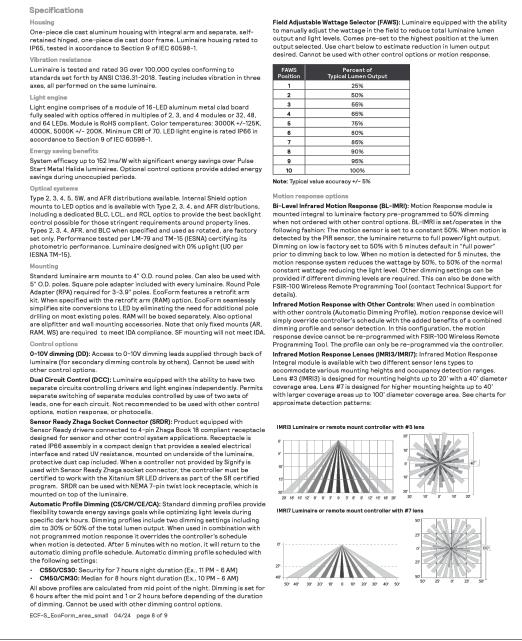
ECF-S EcoForm small Area luminaire

Predicted Lumen Depreciation Data



ECF-S_EcoForm_area_small 04/24 page 3 of 9

ECF-S EcoForm small Area luminaire



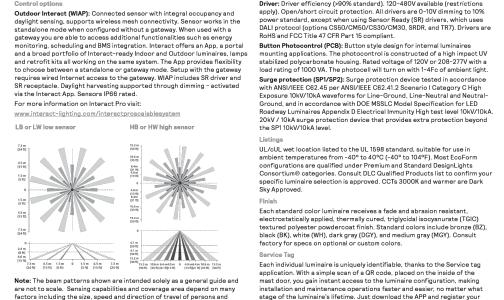
PWS PureForm LED wall sconce Wall mount

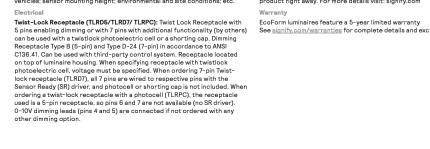
		LED		Average		Type 2			Type 3			Type 4		BL	c
Ordering Code	LED Qty	Current (mA)	Color Temp.	System Watts	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	BUG Rating	Efficac (LPW)
WS-48L-300-WW-G2-x	48	300	3000	47	5755	B2-U0-G1	123	5667	B1-U0-G2	121	5744	B1-U0-G2	123	B0-U0-G1	94
WS-48L-400-WW-G2-x	48	400	3000	61	7469	B2-U0-G2	122	7357	B1-U0-G2	120	7455	B1-U0-G2	122	B0-U0-G2	93
WS-48L-500-WW-G2-x	48	500	3000	76	9072	B2-U0-G2	120	8935	B2-U0-G2	118	9056	B2-U0-G2	119	B0-U0-G2	92
WS-48L-600-WW-G2-x	48	600	3000	91	10657	B2-U0-G2	117	10496	B2-U0-G2	115	10637	B2-U0-G2	117	B1-U0-G2	90
WS-48L-700-WW-G2-x	48	700	3000	105	12339	B3-U0-G2	118	12154	B2-U0-G2	116	12317	B2-U0-G2	117	B1-U0-G2	90
WS-64L-600-WW-G2-x	64	600	3000	118	14257	B3-U0-G2	121	14043	B2-U0-G3	120	14231	B2-U0-G3	121	B1-U0-G2	93
WS-64L-700-WW-G2-x	64	700	3000	137	16076	B3-U0-G3	117	15834	B2-U0-G3	115	16046	B2-U0-G3	117	B1-U0-G2	90
WS-64L-800-WW-G2-x	64	800	3000	158	17922	B3-U0-G3	113	17653	B3-U0-G3	112	17889	B3-U0-G3	110	B1-U0-G3	87
WS-64L-900-WW-G2-x	64	900	3000	179	19692	B3-U0-G3	110	19396	B3-U0-G3	108	19656	B3-U0-G3	108	B1-U0-G3	84
erformance may vary due Is highly recommended to IOTE: Some data may be so ED Wattage and L	o conf caled t	irm perfo based on	rmance v tests of s	vith a photo similar (but	ometric la	ayout.									
ED wartage and L	.ume	n valu	es - 4(JOOK					_						_
Ordering Code	LED Qty	LED Current (mA)	Color Temp.	Average System Watts	Lumen Output	Type 2 BUG Rating	Efficacy (LPW)	Lumen Output	Type 3 BUG Rating	Efficacy (LPW)	Lumen Output	Type 4 BUG Rating	Efficacy (LPW)	BUG Rating	C Efficac (LPW)
WS-48L-300-NW-G2-x	48	300	4000	47	6394	B2-U0-G1	137	6298	B1-U0-G2	135	6386	B1-U0-G2	136	B0-U0-G1	105
WS-48L-400-NW-G2-x	48	400	4000	61	8299	B2-U0-G2	135	8175	B1-U0-G2	133	8290	B1-U0-G2	135	B0-U0-G2	104
WS-48L-500-NW-G2-x	48	500	4000	76	10080	B2-U0-G2	133	9929	B2-U0-G2	131	10072	B2-U0-G2	133	B0-U0-G2	102
WS-48L-600-NW-G2-x	48	600	4000	91	11841	B3-U0-G2	130	11664	B2-U0-G2	128	11833	B2-U0-G2	130	B1-U0-G2	100
WS-48L-700-NW-G2-x	48	700	4000	105	13710	B3-U0-G2	131	13505	B2-U0-G2	129	13702	B2-U0-G3	130	B1-U0-G2	100
WS-64L-600-NW-G2-x	64	600	4000	118	15841	B3-U0-G3	135	15603	B2-U0-G3	133	15814	B2-U0-G3	135	B1-U0-G2	103
WS-64L-700-NW-G2-x	64	700	4000	137	17862	B3-00-G3	130	17594	B2-00-G3	128	17830	B2-00-G3	130	B1-00-G2	100
WS-64L-700-NW-G2-x	64	800	4000	137	19913	B3-00-G3	126	19614	B3-U0-G3	128	19878	B3-00-G3	126	B1-00-G2 B1-U0-G3	97
WS-64L-900-NW-G2-x	64	900	4000	179		B3-00-G3	120	21551	B3-U0-G3	124	21839	B3-00-G4 B3-U0-G4	120	B1-00-G3	94
is highly recommended to OTE: Some data may be se							res. Cont	actfactor	y for configu	irations n	otshown				
ED Wattage and L	.ume	n Valu	es - 5(роок											
ED Wattage and L		LED		Average		Type 2			Type 3			Type 4		BL	
	LED	LED Current	Color		Lumen Output	BUG	Efficacy (LPW)	Lumen Output	BUG	Efficacy (LPW)	Lumen Output	BUG	Efficacy (LPW)	BUG	Efficad
Ordering Code	LED Qty	LED		Average System	Output	BUG Rating	(LPW)	Output	BUG Rating	(LPW)	Output	BUG Rating	(LPW)	BUG Rating	Efficad (LPW)
Ordering Code WS-48L-300-CW-G2-x	LED	LED Current (mA)	Color Temp.	Average System Watts		BUG			BUG			BUG		BUG	Efficad
Ordering Code WS-48L-300-CW-G2-x WS-48L-400-CW-G2-x	LED Qty 48	LED Current (mA) 300	Color Temp. 5000	Average System Watts 47	Output 6394	BUG Rating B2-U0-G1	(LPW) 137	Output 6297	BUG Rating B1-U0-G2	(LPW) 135	Output 6382	BUG Rating B1-U0-G2	(LPW) 136	BUG Rating B0-U0-G2	Efficad (LPW) 105
Ordering Code WS-48L-300-CW-G2-x WS-48L-400-CW-G2-x WS-48L-500-CW-G2-x	LED Qty 48 48	LED Current (mA) 300 400	Color Temp. 5000	Average System Watts 47 61	Output 6394 8299	BUG Rating B2-U0-G1 B2-U0-G2	(LPW) 137 135	Output 6297 8174	BUG Rating B1-U0-G2 B2-U0-G2	(LPW) 135 133	Output 6382 8283	BUG Rating B1-U0-G2 B1-U0-G2	(LPW) 136 135	BUG Rating BO-UO-G2 BO-UO-G2	Efficad (LPW) 105 104
Ordering Code WS-48L-300-CW-G2-x WS-48L-400-CW-G2-x WS-48L-500-CW-G2-x WS-48L-500-CW-G2-x	LED Qty 48 48 48	LED Current (mA) 300 400 500	Color Temp. 5000 5000	Average System Watts 47 61 76	Output 6394 8299 10080	BUG Rating B2-U0-G1 B2-U0-G2 B2-U0-G2	(LPW) 137 135 133	Output 6297 8174 9928	BUG Rating B1-U0-G2 B2-U0-G2 B2-U0-G2	(LPW) 135 133 131	Output 6382 8283 10062	BUG Rating B1-U0-G2 B1-U0-G2 B2-U0-G2	(LPW) 136 135 133	BUG Rating B0-U0-G2 B0-U0-G2 B1-U0-G2	Efficad (LPW) 105 104 102
Ordering Code WS-48L-300-CW-G2-x WS-48L-400-CW-G2-x WS-48L-600-CW-G2-x WS-48L-600-CW-G2-x WS-48L-700-CW-G2-x	LED Oty 48 48 48 48 48	LED Current (mA) 300 400 500 600	Color Temp. 5000 5000 5000 5000	Average System Watts 47 61 76 91	Output 6394 8299 10080 11841	BUG Rating B2-U0-G1 B2-U0-G2 B2-U0-G2 B3-U0-G2	(LPW) 137 135 133 130	Output 6297 8174 9928 11662	BUG Rating B1-U0-G2 B2-U0-G2 B2-U0-G2 B2-U0-G2	(LPW) 135 133 131 128	Output 6382 8283 10062 11819	BUG Rating B1-U0-G2 B1-U0-G2 B2-U0-G2 B2-U0-G2	(LPW) 136 135 133 130	BUG Rating B0-U0-G2 B0-U0-G2 B1-U0-G2 B1-U0-G2	Efficac (LPW) 105 104 102 100
ED Wattage and L Ordering Code WS-48L-300-CW-62-x WS-48L-400-CW-62-x WS-48L-500-CW-62-x WS-48L-700-CW-62-x WS-64L-700-CW-62-x	LED Qty 48 48 48 48 48 48	LED (mA) 300 400 500 600 700	Color Temp. 5000 5000 5000 5000	Average System Watts 47 61 76 91 105	Output 6394 8299 10080 11841 13710	BUG Rating B2-U0-G1 B2-U0-G2 B2-U0-G2 B3-U0-G2 B3-U0-G2	(LPW) 137 135 133 130 131	Output 6297 8174 9928 11662 13504	BUG Rating B1-U0-G2 B2-U0-G2 B2-U0-G2 B2-U0-G2 B2-U0-G2 B2-U0-G2	(LPW) 135 133 131 128 129	Output 6382 8283 10062 11819 13685	BUG Rating B1-U0-G2 B1-U0-G2 B2-U0-G2 B2-U0-G2 B2-U0-G3	(LPW) 136 135 133 130 130	BUG Rating B0-U0-G2 B0-U0-G2 B1-U0-G2 B1-U0-G2 B1-U0-G2	Efficac (LPW) 105 104 102 100 100
Ordering Code WS-48L-300-CW-G2-x WS-48L-400-CW-G2-x WS-48L-600-CW-G2-x WS-48L-600-CW-G2-x WS-64L-600-CW-G2-x	LED Oty 48 48 48 48 48 48 48 64	LED Current (mA) 300 400 500 600 700 600	Color Temp. 5000 5000 5000 5000 5000	Average System Watts 47 61 76 91 105 118	Output 6394 8299 10080 11841 13710 15841	BUG Rating B2-U0-G1 B2-U0-G2 B2-U0-G2 B3-U0-G2 B3-U0-G2 B3-U0-G3	(LPW) 137 135 133 130 131 135	Output 6297 8174 9928 11662 13504 15603	BUG Rating B1-UO-G2 B2-UO-G2 B2-UO-G2 B2-UO-G2 B2-UO-G2 B2-UO-G2 B2-UO-G2	(LPW) 135 133 131 128 129 133	Output 6382 8283 10062 11819 13685 15812	BUG Rating B1-U0-G2 B1-U0-G2 B2-U0-G2 B2-U0-G2 B2-U0-G3 B2-U0-G3	(LPW) 136 135 133 130 130 135	BUG Rating B0-U0-G2 B0-U0-G2 B1-U0-G2 B1-U0-G2 B1-U0-G2 B1-U0-G2 B1-U0-G2	Efficac (LPW) 105 104 102 100 100 103
Ordering Code WS-48L-300-CW-62-x WS-48L-600-CW-62-x WS-48L-600-CW-62-x WS-48L-600-CW-62-x WS-48L-700-CW-62-x WS-64L-700-CW-62-x	LED Oty 48 48 48 48 48 48 64 64	LED (mA) 300 400 500 600 700 600 700	Color Temp. 5000 5000 5000 5000 5000 5000	Average System 47 61 76 91 105 118 137	Output 6394 8299 10080 11841 13710 15841 17862 19913	BUG Rating B2-U0-G1 B2-U0-G2 B2-U0-G2 B3-U0-G2 B3-U0-G2 B3-U0-G3 B3-U0-G3	(LPW) 137 135 133 130 131 135 130	Output 6297 8174 9928 11662 13504 15603 17593	BUG Rating B1-U0-G2 B2-U0-G2 B2-U0-G2 B2-U0-G2 B2-U0-G3 B2-U0-G3 B3-U0-G3	(LPW) 135 133 131 128 129 133 128	Output 6382 8283 10062 11819 13685 15812 17829	BUG Rating B1-U0-G2 B1-U0-G2 B2-U0-G2 B2-U0-G3 B2-U0-G3 B2-U0-G3 B3-U0-G3	(LPW) 136 135 133 130 130 130 135 130	BUG Rating B0-U0-G2 B0-U0-G2 B1-U0-G2 B1-U0-G2 B1-U0-G2 B1-U0-G2 B1-U0-G2 B1-U0-G2 B1-U0-G2	Efficac (LPW) 105 104 102 100 100 100 103 100

3000K LED Watt	ade	and Lu	ımen	Value	8														
		LED		Average		Туре 2			Type 3			Type 4			Type 5			Type 5W	
	Total LEDs	Current		System	Lumen	BUG	Efficacy	Lumen	BUG	Efficacy	Lumen		Efficacy	Lumen	BUG	Efficacy	Lumen	BUG	E
Ordering Code ECF-S-32L-365-WW-G2-x	32	(mA) 365	Temp. 3000	Watts 40	Output 5,508	Rating B1-U0-G1	(LPW) 138	Output 5,428	Rating B1-U0-G2	(LPW) 136	Output 5,637	Rating B1-U0-G2	(LPW) 141	Output 5,790	Rating B3-U0-G1	(LPW) 145	Output 5,604	Rating B3-U0-G1	
ECF-S-32L-530-WW-G2-X	32	530	3000	56	7,159	B2-U0-G2	129	7.055	B1-U0-G2	127	7.327	B1-U0-G2	132	7.526	B3-U0-G2	135	7.284	B3-U0-G2	ŀ
ECF-S-32L-700-WW-G2-x	32	700	3000	73	9,234	B2-U0-G2	127	9,034	B2-U0-G2	124	9,452	B2-U0-G2	130	9,707	B4-U0-G2	133	9,395	B4-U0-G2	ľ
ECF-S-32L-1A-WW-G2-x	32	1050	3000	106	13,001	B3-U0-G2	123	12,719	B2-U0-G2	120	13,306	B2-U0-G3	126	13,665	B4-U0-G2	129	13,227	B4-U0-G2	
ECF-S-32L-1.2A-WW-G2-x	32	1200	3000	122	14,421	B3-U0-G3	119	14,108	B2-U0-G3	116	14,760	B2-U0-G3	121	15,158	B4-U0-G2	125	14,671	B4-U0-G2	
ECF-S-48L-900-WW-G2-x	48	900	3000	135	17,115	B3-U0-G3	127	16,744	B3-U0-G3	124	17,518	B2-U0-G3	130	17,990	B4-U0-G2	133	17,413	B5-U0-G3	
ECF-S-48L-1A-WW-G2-x	48	1050	3000	159	19,381	B3-U0-G3	122	18,960	B3-U0-G3	119	19,836	B3-U0-G4	125	20,372	B5-U0-G3	128	19,717	B5-U0-G3	
ECF-S-48L-1.2A-WW-G2-x ECF-S-64L-900-WW-G2-x	48	1200	3000	183	21,515	B3-U0-G3 B3-U0-G3	118	21,048	B3-U0-G4 B3-U0-G4	115	22,020	B3-U0-G4 B3-U0-G4	121 130	22,616	B5-U0-G3 B5-U0-G3	124	21,888	B5-U0-G3 B5-U0-G3	ŀ
ECF-S-64L-900-WW-G2-x ECF-S-64L-1A-WW-G2-x	64 64	900 1050	3000	178 206	22,652	B3-U0-G3	127	22,161 24,966	B3-U0-G4 B3-U0-G4	125	23,185	B3-U0-G4	130	23,810 26,150	B5-U0-G3	1011	23,045 25,964	B5-U0-G3 B5-U0-G4	
LCF-3-04E-1A WW-02-X	04	1030	3000	200	20,020		124	24,800		121	20,120		127	20,100	103 00 03	127	20,004	83 00 04	
		LED		Average		Type AFR			BLC			LCL or RCL							
Ordering Code	Total LEDs	Current (mA)	Color Temp.	System Watts	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)						
ECF-S-32L-365-WW-G2-x	32	365	3000	40	5,706	B2-U0-G1	143	3,691	B0-U0-G1	94	2,449	B0-U0-G1	62						
ECF-S-32L-530-WW-G2-x	32	530	3000	56	7,417	B2-U0-G1	133	5,005	B0-U0-G2	91	3,183	B0-U0-G1	58						
ECF-S-32L-700-WW-G2-x	32	700	3000	73	9,567	B2-U0-G2	131	6,409	B0-U0-G2	89	4,106	B0-U0-G1	57						
ECF-S-32L-1A-WW-G2-x	32	1050	3000	106	13,467	B3-U0-G2	128	9,024	B1-U0-G2	87	5,793	B0-U0-G2	56						
ECF-S-32L-1.2A-WW-G2-x	32	1200	3000	122	14,939	B3-U0-G2	123	10,010	B1-U0-G2	84	6,426	B0-U0-G2	54						
			3000	135	17,731	B3-U0-G2	131	11,880	B1-U0-G2	89	7,626	B0-U0-G2	57						
ECF-S-48L-900-WW-G2-x	48	900							1										
ECF-S-48L-1A-WW-G2-x	48	1050	3000	159	20,076	B3-U0-G2	127	13,453	B1-U0-G2	86	8,636	B0-U0-G2	65						
ECF-S-48L-1A-WW-G2-x ECF-S-48L-1.2A-WW-G2-x	48 48	1050 1200	3000 3000	159 183	22,288	B3-U0-G2	127 122	14,934	B1-U0-G3	83									
ECF-S-48L-1A-WW-G2-x ECF-S-48L-1.2A-WW-G2-x ECF-S-64L-900-WW-G2-x ECF-S-64L-1A-WW-G2-x	48 48 64 64	1050 1200 900 1050	3000 3000 3000 3000	159 183 178 206	22,288 23,465 26,437		127				8,636	B0-U0-G2 B0-U0-G2	55						
ECF-S-48L-1A-WW-G2-x ECF-S-48L-1.2A-WW-G2-x ECF-S-64L-900-WW-G2-x ECF-S-64L-1A-WW-G2-x	48 48 64 64	1050 1200 900 1050	3000 3000 3000 3000	159 183 178 206	22,288 23,465 26,437	B3-U0-G2 B3-U0-G2	127 122 132	14,934 15,723	B1-U0-G3 B1-U0-G3	83 90]	Туре 5			Type 5W	
ECF-S-48L-1A-WW-G2-x ECF-S-48L-1.2A-WW-G2-x	48 48 64 64	1050 1200 900 1050	3000 3000 3000 3000	159 183 178 206 Value	22,288 23,465 26,437	B3-U0-G2 B3-U0-G2 B4-U0-G3	127 122 132	14,934 15,723	B1-U0-G3 B1-U0-G3 B1-U0-G3	83 90		B0-U0-G2		Lumen Output	Түре 5 BUG Rating	Efficacy (LPW)	Lumen Output	Type 5W BUG Rating	
ECF-S-48L-1A-WW-G2-X ECF-S-48L-12A-WW-G2-X ECF-S-84L-900-WW-G2-X ECF-S-64L-1A-WW-G2-X 4000K LED Watt	48 48 64 64 7 32	1050 1200 900 1050 and Lu LED Current (mA) 365	3000 3000 3000 3000 3000 Color Temp. 4000	159 183 178 206 Value Average System Watts 40	22,288 23,465 26,437 S Lumen Output 5,798	B3-U0-G2 B3-U0-G2 B4-U0-G3 Type 2 BUG Rating B1-U0-G1	127 122 132 128 Efficacy (LPW) 145	14,934 15,723 17,714 Lumen Output 5,713	B1-U0-G3 B1-U0-G3 B1-U0-G3 B1-U0-G3 Type 3 BUG Rating B1-U0-G2	83 90 87 Efficacy (LPW) 143	10,093 Lumen Output 5,934	B0-U0-G2 Type 4 BUG Rating B1-U0-G2	58 Efficacy (LPW) 148	Output 6,094	BUG Rating B3-U0-G1	(LPW) 152	Output 5,898	BUG Rating B3-U0-G2	
ECF-S-48L-1A-WW-G2-X ECF-S-48L-1.2A-WW-G2-X ECF-S-48L-900-WW-G2-X ECF-S-64L-1A-WW-G2-X 4000K LED Watt Ordering Code ECF-S-32L-365-NW-G2-X ECF-S-32L-580-NW-G2-X	48 48 64 64 Total LEDs 32 32	1050 1200 900 1050 and Lu LED Current (mA) 365 530	3000 3000 3000 3000 3000 Imen Color Temp. 4000 4000	159 183 178 206 Value System Watts 40 56	22,288 23,465 26,437 S Lumen Output 5,798 7,536	B3-U0-G2 B3-U0-G2 B4-U0-G3 Type 2 BUG Rating B1-U0-G1 B2-U0-G2	127 122 132 128 Efficacy (LPW) 145 135	14,934 15,723 17,714 Lumen Output 5,713 7,426	B1-U0-G3 B1-U0-G3 B1-U0-G3 B1-U0-G3 BUG Rating B1-U0-G2 B1-U0-G2	83 90 87 Efficacy (LPW) 143 133	10,093 10,093 Lumen Output 5,934 7,713	Type 4 BUG Rating B1-U0-G2 B1-U0-G2	58 Efficacy (LPW) 148 138	Output 6,094 7,922	BUG Rating B3-U0-G1 B3-U0-G2	(LPW) 152 142	Output 5,898 7,667	BUG Rating B3-U0-G2 B3-U0-G2	
ECF-S-48L-1A-WW-G2-X ECF-S-48L-12A-WW-G2-X ECF-S-68L-900-WW-G2-X ECF-S-64L-9A-WW-G2-X 4000K LED Wattl Ordering Code ECF-S-212-86-NW-G2-X ECF-S-32L-30-NW-G2-X ECF-S-32L-30-NW-G2-X	48 48 64 64 age 6 age 6 age 6 age 7 age 7 a	1050 1200 900 1050 and Lu LED Current (mA) 365 530 700	3000 3000 3000 3000 3000 3000 3000 300	159 183 178 206 Value System Watts 40 56 73	22,288 23,465 26,437 S Lumen Output 5,798 7,536 9,720	83-U0-G2 83-U0-G2 84-U0-G3 84-U0-G3 8UG Rating 81-U0-G1 82-U0-G2 82-U0-G2	127 122 132 128 Efficacy (LPW) 145 135 133	14,934 15,723 17,714 Lumen Output 5,713 7,426 9,509	B1-U0-G3 B1-U0-G3 B1-U0-G3 B1-U0-G3 B1-U0-G3 B1-U0-G2 B1-U0-G2 B1-U0-G2 B2-U0-G2	83 90 87 Efficacy (LPW) 143 133 130	10,093 Lumen Output 5,934 7,713 9,949	B0-U0-G2 Type 4 BUG Rating B1-U0-G2 B1-U0-G2 B2-U0-G2	58 Efficacy (LPW) 148 138 136	Output 6,094 7,922 10,218	BUG Rating B3-U0-G1 B3-U0-G2 B4-U0-G2	(LPW) 152 142 140	Output 5,898 7,667 9,889	BUG Rating B3-U0-G2 B3-U0-G2 B4-U0-G2	
ECF-S-48L-1A-WW-G2-X ECF-S-48L-12A-WW-G2-X ECF-S-64L-900-WW-G2-x ECF-S-64L-1A-WW-G2-x AOOOK LED Watte Cordering Code ECF-S-32L-580-NW-G2-x ECF-S-32L-580-NW-G2-x ECF-S-32L-30-NW-62-x	48 48 64 64 64 Total LEDs 32 32 32 32 32	1050 1200 900 1050 and Lu LED Current (mA) 365 530 700 1050	3000 3000 3000 3000 3000 3000 3000 300	159 183 178 206 Value Average System Watts 40 56 73 106	22,288 23,465 26,437 S Lumen Output 5,798 7,536 9,720 13,685	B3-U0-G2 B3-U0-G2 B4-U0-G3 B4-U0-G3 B1-U0-G1 B2-U0-G2 B2-U0-G2 B3-U0-G2 B3-U0-G2	127 122 132 128 Efficacy (LPW) 145 135 133 130	14,934 15,723 17,714 Lumen Output 5,713 7,426 9,509 13,388	B1-U0-G3 B1-U0-G3 B1-U0-G3 B1-U0-G3 BUG Rating B1-U0-G2 B1-U0-G2 B1-U0-G2 B2-U0-G2 B2-U0-G3	83 90 87 Efficacy (LPW) 143 133 130 127	10,093 Lumen Output 5,934 7,713 9,949 14,006	B0-U0-G2 BUG Rating B1-U0-G2 B1-U0-G2 B2-U0-G2 B2-U0-G3	58 Efficacy (LPW) 148 138 136 133	Output 6,094 7,922 10,218 14,384	BUG Rating B3-U0-G1 B3-U0-G2 B4-U0-G2 B4-U0-G2	(LPW) 152 142 140 136	Output 5,898 7,667 9,889 13,923	BUG Rating B3-U0-G2 B3-U0-G2 B4-U0-G2 B4-U0-G2	
ECF-S-48L-1A-WW-G2-X ECF-S-88L-12A-WW-G2-X ECF-S-84L-900-WW-G2-X ECF-S-64L-1A-WW-G2-X AOOOK LED Watt COMMONSTREAM ECF-S-32L-365-NW-G2-X ECF-S-32L-365-NW-G2-X ECF-S-32L-30-NW-G2-X ECF-S-32L-1A-NW-G2-X ECF-S-32L-1A-NW-G2-X	48 48 64 64 64 70tal LEDs 32 32 32 32 32 32 32 32	1050 1200 900 1050 and Lu LED Current (mA) 365 530 700 1050 1200	3000 3000 3000 3000 3000 3000 3000 4000 4000 4000 4000 4000	159 183 178 206 Value Average System Watts 40 56 73 106 122	22,288 23,465 26,437 S S Lumen Output 5,798 7,536 9,720 13,685 15,180	B3-U0-G2 B3-U0-G2 B4-U0-G3 B4-U0-G3 BUG Rating B1-U0-G1 B2-U0-G2 B2-U0-G2 B3-U0-G2 B3-U0-G3	127 122 132 128 Efficacy (LPW) 145 135 133 130 125	14,934 15,723 17,714 Lumen Output 5,713 7,426 9,509 13,388 14,851	B1-U0-G3 B1-U0-G3 B1-U0-G3 B1-U0-G3 BUG Rating B1-U0-G2 B1-U0-G2 B1-U0-G2 B2-U0-G3 B2-U0-G3 B2-U0-G3	83 90 87 Efficacy (LPW) 143 133 130 127 122	10,093 Lumen Output 5,934 7,713 9,949 14,006 15,537	Type 4 BUG Rating B1-U0-G2 B1-U0-G2 B2-U0-G2 B2-U0-G3 B2-U0-G3 B2-U0-G3	58 Efficacy (LPW) 148 138 136 133 128	Output 6,094 7,922 10,218 14,384 15,956	BUG Rating B3-U0-G1 B3-U0-G2 B4-U0-G2 B4-U0-G2 B4-U0-G2	(LPW) 152 142 140 136 131	Output 5,898 7,667 9,889 13,923 15,443	BUG Rating B3-U0-G2 B3-U0-G2 B4-U0-G2 B4-U0-G2 B4-U0-G2	E
ECF-S-48L-1A-WW-G2-X ECF-S-48L-12A-WW-G2-X ECF-S-64L-900-WW-G2-x ECF-S-64L-1A-WW-G2-x AOOOK LED Watte Cordering Code ECF-S-32L-580-NW-G2-x ECF-S-32L-580-NW-G2-x ECF-S-32L-30-NW-62-x	48 48 64 64 64 Total LEDs 32 32 32 32 32	1050 1200 900 1050 and Lu LED Current (mA) 365 530 700 1050	3000 3000 3000 3000 3000 3000 3000 300	159 183 178 206 Value Average System Watts 40 56 73 106	22,288 23,465 26,437 S Lumen Output 5,798 7,536 9,720 13,685	B3-U0-G2 B3-U0-G2 B4-U0-G3 B4-U0-G3 B1-U0-G1 B2-U0-G2 B2-U0-G2 B3-U0-G2 B3-U0-G2	127 122 132 128 Efficacy (LPW) 145 135 133 130	14,934 15,723 17,714 Lumen Output 5,713 7,426 9,509 13,388	B1-U0-G3 B1-U0-G3 B1-U0-G3 B1-U0-G3 BUG Rating B1-U0-G2 B1-U0-G2 B1-U0-G2 B2-U0-G2 B2-U0-G3	83 90 87 Efficacy (LPW) 143 133 130 127	10,093 Lumen Output 5,934 7,713 9,949 14,006	B0-U0-G2 BUG Rating B1-U0-G2 B1-U0-G2 B2-U0-G2 B2-U0-G3	58 Efficacy (LPW) 148 138 136 133	Output 6,094 7,922 10,218 14,384	BUG Rating B3-U0-G1 B3-U0-G2 B4-U0-G2 B4-U0-G2	(LPW) 152 142 140 136	Output 5,898 7,667 9,889 13,923	BUG Rating B3-U0-G2 B3-U0-G2 B4-U0-G2 B4-U0-G2	
ECF-S-48L-1A-WW-G2-X ECF-S-48L-12A-WW-G2-X ECF-S-48L-12A-WW-G2-X ECF-S-64L-1A-WW-G2-X 40000K LED Watt ECF-S-32L-365-NW-G2-X ECF-S-32L-365-NW-G2-X ECF-S-32L-1A-NW-G2-X ECF-S-32L-1A-NW-G2-X ECF-S-32L-1A-NW-G2-X ECF-S-34L-1A-NW-G2-X	48 48 64 64 64 Control LEDs 32 32 32 32 32 32 32 48	1050 1200 900 1050 and Lu LED Current (mA) 365 530 700 1050 1200 900	3000 3000 3000 3000 3000 3000 3000 4000 4000 4000 4000 4000 4000	159 183 178 206 Value Average System Watts 40 56 73 106 122 135	22,288 23,465 26,437 S Lumen Output 5,798 7,536 9,720 13,685 15,180 18,016	B3-U0-G2 B3-U0-G2 B4-U0-G3 B4-U0-G3 B1-U0-G1 B2-U0-G2 B3-U0-G2 B3-U0-G3 B3-U0-G3 B3-U0-G3 B3-U0-G3	127 122 132 128 Efficacy (LPW) 145 135 133 130 125 133	14,934 15,723 17,714 Lumen Output 5,713 7,426 9,509 13,388 14,851 17,625	81-00-63 81-00-63 81-00-63 81-00-63 800 81-00-62 81-00-62 82-00-62 82-00-63 82-00-63 83-00-63	83 90 87 Efficacy (LPW) 143 133 130 127 122 130	10,093 Lumen Output 5,934 7,713 9,949 14,006 15,537 18,440	B0-U0-G2 Type 4 BUG Rating B1-U0-G2 B1-U0-G2 B2-U0-G2 B2-U0-G3 B2-U0-G3 B3-U0-G3	58 Efficacy (LPW) 148 138 136 133 128 136	Output 6,094 7,922 10,218 14,384 15,956 18,937	BUG Rating B3-U0-G1 B3-U0-G2 B4-U0-G2 B4-U0-G2 B4-U0-G2 B4-U0-G3	(LPW) 152 142 140 136 131 140	Output 5,898 7,667 9,889 13,923 15,443 18,329	BUG Rating B3-U0-G2 B3-U0-G2 B4-U0-G2 B4-U0-G2 B4-U0-G2 B4-U0-G2 B4-U0-G2 B4-U0-G3	
ECF-S-48L-1A-WW-G2-X ECF-S-48L-12A-WW-G2-X ECF-S-68L-900-WW-G2-X ECF-S-68L-1A-WW-G2-X 4000K LED Watt ECF-S-32L-365-NW-G2-X ECF-S-32L-530-NW-G2-X ECF-S-32L-130-NW-G2-X ECF-S-32L-1A-NW-G2-X ECF-S-48L-0A-NW-G2-X ECF-S-48L-0A-NW-G2-X	48 48 64 64 64 7 7 7 7 7 8 32 32 32 32 32 32 32 32 32 48 48	1050 1200 900 1050 and Lu LED Current (mA) 365 530 700 1050 1200 900 1050	3000 3000 3000 3000 3000 3000 4000 4000	159 183 178 206 Value Average System Watts 40 56 73 106 122 135 159	22,288 23,465 26,437 26,437 26,437 20,437 5,798 7,536 9,720 13,685 15,180 18,016 20,401	B3-U0-G2 B3-U0-G2 B4-U0-G3 B4-U0-G3 B1-U0-G1 B2-U0-G2 B3-U0-G2 B3-U0-G3 B3-U0-G3 B3-U0-G3 B3-U0-G3	127 122 132 128 Efficacy (LPW) 145 135 133 130 125 133 129	14,934 15,723 17,714 Lumen Output 5,713 7,426 9,509 13,388 14,851 17,625 19,958	81-00-63 81-00-63 81-00-63 81-00-63 800 81-00-62 81-00-62 82-00-63 82-00-63 83-00-64	83 90 87 Efficacy (LPW) 143 133 130 127 122 130 126	10,093 Lumen Output 5,934 7,713 9,949 14,006 15,537 18,440 20,880	B0-U0-G2 BUG Rating B1-U0-G2 B1-U0-G2 B2-U0-G2 B2-U0-G3 B2-U0-G3 B3-U0-G3 B3-U0-G4	58 Efficacy (LPW) 148 138 138 138 138 133 128 136 132	Output 6,094 7,922 10,218 14,384 15,956 18,937 21,444	BUG Rating B3-U0-G1 B3-U0-G2 B4-U0-G2 B4-U0-G2 B4-U0-G2 B4-U0-G3 B5-U0-G3	(LPW) 152 142 140 136 131 140 135	Output 5,898 7,667 9,889 13,923 15,443 18,329 20,755	BUG Rating B3-U0-G2 B3-U0-G2 B4-U0-G2 B4-U0-G2 B4-U0-G2 B5-U0-G3 B5-U0-G3	
ECF-S-48L-1A-WW-G2-X ECF-S-48L-12A-WW-G2-X ECF-S-64L-30-WW-G2-X ECF-S-64L-1A-WW-G2-X AOOOK LED Watt Cordening Code ECF-S-32L-365-NW-G2-X ECF-S-32L-30-NW-G2-X ECF-S-32L-1A-NW-G2-X ECF-S-32L-1A-NW-G2-X ECF-S-32L-1A-NW-G2-X ECF-S-48L-1A-NW-G2-X ECF-S-48L-1A-NW-G2-X ECF-S-48L-1A-NW-G2-X	48 48 64 64 64 7 7 7 7 7 8 32 32 32 32 32 32 32 32 48 48 48	1050 1200 900 1050 and Lu LED Current (mA) 365 530 700 1050 1200 900 1050 1200	3000 3000 3000 3000 3000 4000 4000 4000	159 183 178 206 Value Average System Watts 40 56 73 106 122 135 159 183	22,288 23,465 26,437 26,437 26,437 20,437 5,798 7,536 9,720 13,685 15,180 18,016 20,401 22,647	B3-U0-G2 B3-U0-G2 B4-U0-G3 B4-U0-G3 B1-U0-G1 B2-U0-G2 B3-U0-G2 B3-U0-G2 B3-U0-G3 B3-U0-G3 B3-U0-G3 B3-U0-G3	127 122 132 128 128 Efficacy (LPW) 145 135 133 130 125 133 129 124	14,934 15,723 17,714 Lumen Output 5,713 7,426 9,609 13,388 14,851 17,625 19,958 22,156	81-00-G3 81-00-G3 81-00-G3 81-00-G3 80 81-00-G2 81-00-G2 82-00-G3 82-00-G3 83-00-G4 83-00-G4 83-00-G4	83 90 87 Efficacy (LPW) 143 133 130 127 122 130 126 121	10,093 Lumen Output 5,934 7,713 9,949 14,006 15,537 18,440 20,880 23,179	B0-U0-G2 BUG Rating B1-U0-G2 B2-U0-G3 B2-U0-G3 B3-U0-G4 B3-U0-G4	58 Efficacy (LPW) 148 138 136 133 128 136 132 132 127	Output 6,094 7,922 10,218 14,384 15,956 18,937 21,444 23,806	BUG Rating B3-U0-G1 B3-U0-G2 B4-U0-G2 B4-U0-G2 B4-U0-G3 B5-U0-G3 B5-U0-G3	(LPW) 152 142 140 136 131 140 135 130	Output 5,898 7,667 9,889 13,923 15,443 18,329 20,755 23,040	BUG Rating B3-U0-G2 B3-U0-G2 B4-U0-G2 B4-U0-G2 B4-U0-G2 B5-U0-G3 B5-U0-G3 B5-U0-G3	
ECF-S-48L-1A-WW-G2-X ECF-S-84L-12A-WW-G2-X ECF-S-84L-12A-WW-G2-X ECF-S-64L-1A-WW-G2-X ECF-S-32L-386-NW-G2-X ECF-S-32L-386-NW-G2-X ECF-S-32L-386-NW-G2-X ECF-S-32L-10-NW-G2-X ECF-S-32L-10-NW-G2-X ECF-S-32L-10-NW-G2-X ECF-S-34L-10-NW-G2-X ECF-S-34L-10-NW-G2-X ECF-S-34L-10-NW-G2-X ECF-S-84L-10-NW-G2-X ECF-S-84L-10-NW-G2-X	48 48 64 64 Cotal LEDs 32 32 32 32 32 32 32 32 48 48 48 64 64	1050 1200 900 1050 and Lu Current (mA) 365 530 1050 1200 900 1050 1200 900 1050 1200	3000 3000 3000 3000 3000 3000 4000 4000	159 183 178 206 Value System Watts 40 56 73 106 122 135 159 183 178 206 Average	22,288 23,465 26,437 5,798 7,536 9,720 13,885 15,180 18,016 20,401 22,647 23,844 26,863	B3-U0-G2 B3-U0-G2 B4-U0-G3 B4-U0-G3 B4-U0-G3 B1-U0-G1 B2-U0-G2 B3-U0-G2 B3-U0-G3 B3-U0-G3 B3-U0-G3 B3-U0-G3 B3-U0-G3 B3-U0-G3 B3-U0-G3 B3-U0-G3 B3-U0-G3 B3-U0-G3 B3-U0-G3 B3-U0-G3	127 122 132 128 Efficacy (LPW) 145 135 133 133 133 133 129 124 134 130	14,934 15,723 17,714 Lumen Output 5,713 7,426 9,509 13,388 14,851 17,625 19,958 22,156 23,327 26,280	B1-U0-G3 B1-U0-G3 B1-U0-G3 B1-U0-G3 B1-U0-G2 B1-U0-G2 B1-U0-G2 B2-U0-G3 B2-U0-G3 B3-U0-G3 B3-U0-G4 B3-U0-G4 B3-U0-G4 B3-U0-G4 BLC	83 90 87 Efficecy (LPW) 143 133 130 127 122 130 126 121 131 128	10,093 10,093 Lumen Output 5,934 7,713 9,949 14,006 15,537 18,440 20,880 23,179 24,405 27,495	B0-U0-G2 BUG BUG Rating B1-U0-G2 B2-U0-G2 B2-U0-G3 B3-U0-G4 B3-U0-G4 B3-U0-G4 B3-U0-G4 B3-U0-G4 B3-U0-G4	58 Efficacy (LPW) 148 138 138 138 138 138 138 138 138 138 13	Output 6,094 7,922 10,218 14,384 15,956 18,937 21,444 23,806 25,063	BUG Rating B3-U0-G1 B3-U0-G2 B4-U0-G2 B4-U0-G2 B4-U0-G3 B5-U0-G3 B5-U0-G3 B5-U0-G3 B5-U0-G3	(LPW) 152 142 140 136 131 140 135 130 141	Output 5,898 7,667 9,889 13,923 15,443 18,329 20,755 23,040 24,258	BUG Rating B3-U0-G2 B3-U0-G2 B4-U0-G2 B4-U0-G2 B4-U0-G3 B5-U0-G3 B5-U0-G3 B5-U0-G3	
ECF-S-48L-1A-WW-G2-X ECF-S-84L-12A-WW-G2-X ECF-S-84L-12A-WW-G2-X ECF-S-64L-1A-WW-G2-X ECF-S-32L-386-NW-G2-X ECF-S-32L-386-NW-G2-X ECF-S-32L-386-NW-G2-X ECF-S-32L-10-NW-G2-X ECF-S-32L-10-NW-G2-X ECF-S-32L-10-NW-G2-X ECF-S-34L-10-NW-G2-X ECF-S-34L-10-NW-G2-X ECF-S-34L-10-NW-G2-X ECF-S-84L-10-NW-G2-X ECF-S-84L-10-NW-G2-X	48 48 64 64 64 64 Total LEDS 32 32 32 32 32 32 32 48 48 48 64	1050 1200 900 1050 and Lu Current (mA) 365 530 700 1050 1200 900 1050 1200 900	3000 3000 3000 3000 3000 4000 4000 4000	159 183 178 206 Value System Watts 40 56 73 106 122 135 159 183 178 206	22,288 23,465 26,437 5.798 7,536 9,720 13,685 15,180 18,016 20,401 22,647 23,844	B3-U0-G2 B3-U0-G2 B4-U0-G3 B4-U0-G3 B1-U0-G1 B2-U0-G2 B3-U0-G2 B3-U0-G3 B3-U0-G3 B3-U0-G3 B3-U0-G3 B3-U0-G3 B3-U0-G3 B3-U0-G3	127 122 132 128 Efficacy (LPW) 145 135 133 130 125 133 129 124 134	14,934 15,723 17,714 Lumen Output 5,713 7,426 9,509 13,388 14,851 17,625 19,958 22,156 23,327	B1-U0-G3 B1-U0-G3 B1-U0-G3 B1-U0-G3 B1-U0-G3 B1-U0-G2 B1-U0-G2 B1-U0-G2 B2-U0-G3 B3-U0-G3 B3-U0-G4 B3-U0-G4	83 90 87 Efficacy (LPW) 143 133 130 127 122 130 126 121 131	10,093 Lumen Output 5,934 7,713 9,949 14,006 15,537 18,440 20,880 23,179 24,405	B0-U0-G2 BUG Rating B1-U0-G2 B1-U0-G2 B2-U0-G3 B2-U0-G3 B3-U0-G4 B3-U0-G4	58 Efficacy (LPW) 148 138 136 133 128 136 132 136 132 127 137	Output 6,094 7,922 10,218 14,384 15,956 18,937 21,444 23,806 25,063	BUG Rating B3-U0-G1 B3-U0-G2 B4-U0-G2 B4-U0-G2 B4-U0-G3 B5-U0-G3 B5-U0-G3 B5-U0-G3 B5-U0-G3	(LPW) 152 142 140 136 131 140 135 130 141	Output 5,898 7,667 9,889 13,923 15,443 18,329 20,755 23,040 24,258	BUG Rating B3-U0-G2 B3-U0-G2 B4-U0-G2 B4-U0-G2 B4-U0-G3 B5-U0-G3 B5-U0-G3 B5-U0-G3	
ECF-S-48L-1A-WW-G2-X ECF-S-84L-900-WW-G2-X ECF-S-64L-1A-WW-G2-X ECF-S-64L-1A-WW-G2-X ECF-S-64L-1A-WW-G2-X ECF-S-32L-365-NW-G2-X ECF-S-32L-530-NW-G2-X ECF-S-32L-1A-NW-G2-X ECF-S-32L-1A-NW-G2-X ECF-S-34L-1A-NW-G2-X ECF-S-48L-1A-NW-G2-X ECF-S-48L-1A-NW-G2-X	48 48 64 64 70tal LEDs 32 32 32 32 32 32 32 32 48 48 64 64 64	1050 1200 900 1050 Current (mA) 385 530 700 1050 1050 1050 1200 900 1050 1200 900 1050 Current	3000 3000 3000 3000 3000 3000 4000 4000	159 183 178 206 Value Average System 40 56 73 106 122 135 159 183 178 206 Average System	22,288 23,465 26,437 5 5 7,536 9,720 13,685 15,180 18,016 20,401 22,647 23,844 26,863 20,407	B3-U0-G2 B3-U0-G2 B4-U0-G3 B4-U0-G3 B1-U0-G1 B2-U0-G2 B3-U0-G2 B3-U0-G3 B3-	127 122 132 128 128 128 128 128 128 128 133 130 125 133 129 124 134 130 225	14,934 15,723 17,714 Lumen Cutput 5,713 7,426 9,509 13,389 14,851 17,625 19,958 22,156 23,327 26,280	B1-U0-G3 B1-U0-G3 B1-U0-G3 B1-U0-G3 B1-U0-G2 B1-U0-G2 B1-U0-G2 B2-U0-G3 B2-U0-G3 B3-U0-G4 B3-U0-G4 B3-U0-G4 B3-U0-G4 B3-U0-G4 B3-U0-G4 B1-U0-G2	83 90 87 Efficacy (LPW) 143 133 130 127 122 130 126 121 131 128 Efficacy Efficacy	10.093 Lumen Output 5,934 7,713 9,949 14,006 15,537 18,440 20,880 23,179 24,405 2,7495	B0-U0-G2 BUG Rating B1-U0-G2 B1-U0-G2 B2-U0-G3 B2-U0-G3 B3-U0-G4	Efficacy (LPW) 148 138 136 133 128 136 132 127 137 134 Efficacy	Output 6,094 7,922 10,218 14,384 15,956 18,937 21,444 23,806 25,063	BUG Rating B3-U0-G1 B3-U0-G2 B4-U0-G2 B4-U0-G2 B4-U0-G3 B5-U0-G3 B5-U0-G3 B5-U0-G3 B5-U0-G3	(LPW) 152 142 140 136 131 140 135 130 141	Output 5,898 7,667 9,889 13,923 15,443 18,329 20,755 23,040 24,258	BUG Rating B3-U0-G2 B3-U0-G2 B4-U0-G2 B4-U0-G2 B4-U0-G3 B5-U0-G3 B5-U0-G3 B5-U0-G3	
ECF-S-48L-1A-WW-G2-X ECF-S-84L-12-WW-G2-X ECF-S-84L-12-WW-G2-X ECF-S-64L-1A-WW-G2-X ECF-S-64L-1A-WW-G2-X ECF-S-32L-386-NW-G2-X ECF-S-32L-380-NW-G2-X ECF-S-32L-1A-NW-G2-X ECF-S-32L-1A-NW-G2-X ECF-S-32L-1A-NW-G2-X ECF-S-34L-1A-NW-G2-X ECF-S-48L-1A-NW-G2-X ECF-S-48L-1A-NW-G2-X ECF-S-64L-1A-NW-G2-X ECF-S-64L-1A-NW-G2-X	48 48 64 64 64 Total LEDs 32 32 32 32 32 32 32 32 32 48 48 64 64 64 Total LEDs	1050 1200 900 1050 Current LED Current (mA) 365 530 700 1050 1200 900 1050 1200 900 1050 1050	3000 3000 3000 3000 3000 3000 4000 4000	159 183 178 206 Value Value Average System Vats 40 56 73 106 122 135 159 183 178 8 206	22,288 23,465 26,437 Lumen 5,798 7,536 9,720 13,685 15,180 18,016 20,401 18,016 20,401 22,647 23,844 26,863 Lumen Output	B3-U0-G2 B3-U0-G2 B4-U0-G3 B4-U0-G3 B1-U0-G1 B2-U0-G2 B3-U0-G2 B3-U0-G3 B3-U0-G2 B3-U0-G2 B3-U0-G2 B3-U0-G2 B3-U0-G2 B3-U0-G2 B3-U0-G2 B3-U0-G2 B3-U0-G3 B3-	127 122 132 128 128 145 145 133 130 125 133 130 125 133 129 124 124 124 124	14,934 15,723 17,714 Lumen 0utput 5,713 9,509 13,388 14,851 17,625 19,956 22,156 22,156 22,327 26,280 Lumen 0utput	B1-U0-G3 B1-U0-G3 B1-U0-G3 B1-U0-G3 B1-U0-G3 B1-U0-G3 B1-U0-G2 B1-U0-G2 B1-U0-G2 B1-U0-G2 B2-U0-G3 B3-U0-G3 B3-U0-G4 B3-U0-G4 B3-U0-G4 B3-U0-G4 BLC BUG Rating	83 90 87 Efficacy (LPW) 143 133 130 127 122 130 128 121 131 128 Efficacy (LPW)	10.093 Lumen Output 5,934 7,713 9,949 14,006 15,537 18,440 20,880 23,179 24,405 2,7495	B0-U0-G2 Type 4 BUG Rating B1-U0-G2 B1-U0-G2 B2-U0-G3 B3-U0-G3 B3-U0-G4 B3-U0-G4 B3-U0-G4 B3-U0-G4 B3-U0-G4 B2-U0-G4 B3-U0-G4 B3-U0-G4 B4-U0-G4 B1CL or RCLL BUG Rating	58 Efficacy (LPW) 148 138 138 138 138 138 138 138 138 132 127 137 134 22 127 137 134	Output 6,094 7,922 10,218 14,384 15,956 18,937 21,444 23,806 25,063	BUG Rating B3-U0-G1 B3-U0-G2 B4-U0-G2 B4-U0-G2 B4-U0-G2 B4-U0-G3 B5-U0-G3 B5-U0-G3 B5-U0-G3	(LPW) 152 142 140 136 131 140 135 130 141	Output 5,898 7,667 9,889 13,923 15,443 18,329 20,755 23,040 24,258	BUG Rating B3-U0-G2 B3-U0-G2 B4-U0-G2 B4-U0-G2 B4-U0-G3 B5-U0-G3 B5-U0-G3 B5-U0-G3	
ECF-S-48L-1A-WW-G2-X ECF-S-84L-12A-WW-G2-X ECF-S-84L-12A-WW-G2-X ECF-S-64L-1A-WW-G2-X ECF-S-64L-1A-WW-G2-X ECF-S-24L-36B-NW-G2-X ECF-S-23L-36B-NW-G2-X ECF-S-23L-36B-NW-G2-X ECF-S-23L-1A-NW-G2-X ECF-S-23L-1A-NW-G2-X ECF-S-24L-1A-NW-G2-X ECF-S-48L-1A-NW-G2-X ECF-S-48L-1A-NW-G2-X ECF-S-48L-1A-NW-G2-X ECF-S-48L-1A-NW-G2-X ECF-S-24L-30D-NW-G2-X ECF-S-24L-30D-NW-G2-X ECF-S-24L-30D-NW-G2-X ECF-S-24L-30D-NW-G2-X ECF-S-24L-30D-NW-G2-X ECF-S-24L-30D-NW-G2-X ECF-S-24L-30D-NW-G2-X ECF-S-24L-30D-NW-G2-X ECF-S-24L-30D-NW-G2-X ECF-S-24L-30D-NW-G2-X ECF-S-24L-30D-NW-G2-X ECF-S-24L-30D-NW-G2-X ECF-S-32L-30D-NW-G2-X ECF-S-32L-30D-NW-G2-X ECF-S-32L-30D-NW-G2-X ECF-S-32L-30D-NW-G2-X ECF-S-32L-30D-NW-G2-X	48 48 64 64 64 70tal LEDs 32 32 32 32 32 32 32 32 48 48 48 64 64 64 70tal 32 32 32 32 32 32 32 32 32 32 32 32 32	1050 1200 900 1050 and Lu LED Current (mA) 385 530 1050 1050 1050 1050 1050 1050 1050	3000 3000 3000 3000 3000 4000 4000 4000	159 183 178 206 Value Average System Watts 40 56 122 155 159 163 178 206 Average System Watts 40 6 6 5 5 5 5 5 5 5 5 6 6 7 3	22,288 23,485 26,437 5,798 7,536 15,180 18,016 20,401 18,016 20,401 18,016 20,401 22,847 23,844 26,863 0000 0000 0000 0000 0000 0000 00000	B3-U0-62 B3-U0-62 B4-U0-63 B4-U0-63 B4-U0-63 B4-U0-62 B4-U0-62 B2-U0-62 B3-U0-62 B3-U0-63 B3-U0-63 B3-U0-63 B3-U0-63 B3-U0-63 B3-U0-63 B3-U0-63 B3-U0-63 B3-U0-62 B3-U0-63 B3-03	127 122 132 128 Efficacy (LPW) 145 135 133 133 133 133 125 133 129 124 134 134 130 Efficacy (LPW) 140 140 140	14,934 15,723 17,714 5,713 7,426 9,509 13,388 14,851 7,625 19,958 22,156 23,327 26,280 0 4,485 23,327 26,280 0 4,495 24,569 23,327 26,280 0 4,495 24,569 26,599 26,	B1-U0-G3 B1-U0-G3 B1-U0-G3 B1-U0-G3 B1-U0-G3 B1-U0-G2 B1-U0-G2 B2-U0-G3 B2-U0-G3 B2-U0-G3 B3-U0-G4 B3-U0-G4 B3-U0-G4 B3-U0-G4 B3-U0-G4 B3-U0-G4 B0-G6 B0-U0-G2 B0-U0-G2 B0-U0-G2 B0-U0-G2 B0-U0-G2 B0-U0-G3	83 90 87 Efficacy (LeW) 143 133 130 127 122 130 128 130 128 121 131 128 Efficacy (LeW) 101 99 99 96	10,093 10,093 Lumen 04tput 5,934 7,713 9,849 14,006 15,537 18,440 20,880 23,179 24,405 27,495 24,405 2,633 3,423 3,423 4,415	Type 4 BUG BL BL BL-UO-G2 B1-UO-G2 B2-UO-G3 B2-UO-G3 B3-UO-G4 B3-UO-G4 B3-UO-G4 B3-UO-G4 B3-UO-G4 B3-UO-G4 B3-UO-G4 B0-UO-G1 B0-UO-G1 B0-UO-G1 B0-UO-G1	58 Efficacy (LPW) 148 138 138 138 138 133 133 136 133 132 127 137 134 Efficacy (LPW) 67 62 61	Output 6,094 7,922 10,218 14,384 15,956 18,937 21,444 23,806 25,063	BUG Rating B3-U0-G1 B3-U0-G2 B4-U0-G2 B4-U0-G2 B4-U0-G2 B4-U0-G3 B5-U0-G3 B5-U0-G3 B5-U0-G3	(LPW) 152 142 140 136 131 140 135 130 141	Output 5,898 7,667 9,889 13,923 15,443 18,329 20,755 23,040 24,258	BUG Rating B3-U0-G2 B3-U0-G2 B4-U0-G2 B4-U0-G2 B4-U0-G3 B5-U0-G3 B5-U0-G3 B5-U0-G3	
ECF-S-48L-1A-WW-G2-X ECF-S-84L-30-WW-G2-X ECF-S-84L-30-WW-G2-X ECF-S-84L-30-WW-G2-X ECF-S-84L-30-WW-G2-X ECF-S-32L-365-NW-G2-X ECF-S-32L-305-NW-G2-X ECF-S-32L-305-NW-G2-X ECF-S-32L-1A-NW-G2-X ECF-S-34L-1A-NW-G2-X ECF-S-84L-30-NW-G2-X ECF-S-84L-30-NW-G2-X ECF-S-84L-30-NW-G2-X ECF-S-84L-30-NW-G2-X ECF-S-84L-30-NW-G2-X ECF-S-84L-30-NW-G2-X ECF-S-84L-30-NW-G2-X ECF-S-84L-30-NW-G2-X ECF-S-32L-365-NW-G2-X ECF-S-32L-365-NW-G2-X ECF-S-32L-305-NW-G2-X ECF-S-32L-305-NW-G2-X	48 48 64 64 70tal LEDs 32 32 32 32 32 32 32 48 48 64 64 64 70tal 82 32 32 32 32 32 32 32 32 32 32 32 32 32	1050 1200 900 1050 and LU LED Current (mA) 385 530 1050 1050 1050 1050 1050 1050 1050	3000 3000 3000 3000 Color Temp. 4000 4000 4000 4000 4000 4000 4000 40	169 183 178 206 Value Average System Watts 40 06 73 106 122 135 159 183 178 206 Average Xystem Watts 40 6 6 6 73 106	22,288 23,485 26,437 5,798 7,536 15,180 18,016 20,401 22,647 23,844 26,863 23,844 26,863 4,006 7,060 7,007 10,070 14,176	B3-U0-62 B3-U0-62 B4-U0-63 B4-U0-63 B4-U0-63 B2-U0-62 B2-U0-62 B3-U0-63 B3-U0-63 B3-U0-63 B3-U0-63 B3-U0-63 B3-U0-63 B3-U0-63 B3-U0-64 B2-U0-61 B2-U0-61 B2-U0-61 B2-U0-61 B2-U0-61 B2-U0-61 B2-U0-61 B2-U0-61 B2-U0-61 B2-U0-61 B2-U0-61 B3-U0-62 B3-U0-63 B3-	127 122 132 128 128 128 128 132 128 133 133 133 125 133 129 124 134 130 Efficacy (LPW) 150 149 138 138 139	14,934 15,723 17,714 Lumen Output 5,713 7,726 9,509 13,388 14,851 17,625 19,958 22,156 13,388 14,851 17,625 19,958 22,327 26,280 Cutput 23,327 26,280 Cutput 23,327 26,280 Cutput	B1-U0-G3 B1-U0-G3 B1-U0-G3 B1-U0-G3 B1-U0-G2 B1-U0-G2 B1-U0-G2 B2-U0-G3 B2-U0-G3 B2-U0-G3 B3-U0-G4 B3-U0-G4 B3-U0-G4 B3-U0-G4 B0-U0-G2 B0-U0-G2 B0-U0-G2 B0-U0-G2 B0-U0-G2 B1-U0-G2 B1-U0-G2	83 90 87 Efficacy (LPW) 143 133 130 127 127 127 127 127 127 127 127 127 127	10,093 Lumen Output 5,934 7,713 9,949 9,949 14,006 15,537 18,440 2,833 2,420 2,405 2,7495 2,405	80-U0-62 Type 4 800 81-U0-62 81-U0-62 81-U0-62 82-U0-63 82-U0-63 83-U0-64 83-U0-64 83-U0-64 83-U0-64 83-U0-64 80-U0-61 80-U0-61 80-U0-62	Efficacy (LPW) 148 138 136 133 136 133 132 127 132 127 132 127 132 127 132 122 127 132 122 127 132 122 127 132 122 127 132 122 127 132 122 127 132 122 127 127 127 127 127 127 127 127 12	Output 6,094 7,922 10,218 14,384 15,956 18,937 21,444 23,806 25,063	BUG Rating B3-U0-G1 B3-U0-G2 B4-U0-G2 B4-U0-G2 B4-U0-G2 B4-U0-G3 B5-U0-G3 B5-U0-G3 B5-U0-G3	(LPW) 152 142 140 136 131 140 135 130 141	Output 5,898 7,667 9,889 13,923 15,443 18,329 20,755 23,040 24,258	BUG Rating B3-U0-G2 B3-U0-G2 B4-U0-G2 B4-U0-G2 B4-U0-G3 B5-U0-G3 B5-U0-G3 B5-U0-G3	
ECF-S-48L-1A-WW-G2-X ECF-S-48L-12A-WW-G2-X ECF-S-68L-12A-WW-G2-X ECF-S-68L-13A-WW-G2-X ECF-S-68L-1A-WW-G2-X ECF-S-28L-365-NW-G2-X ECF-S-28L-530-NW-G2-X ECF-S-28L-530-NW-G2-X ECF-S-28L-12A-NW-G2-X ECF-S-48L-12A-NW-G2-X ECF-S-48L-12A-NW-G2-X ECF-S-48L-12A-NW-G2-X ECF-S-48L-12A-NW-G2-X ECF-S-48L-12A-NW-G2-X ECF-S-48L-12A-NW-G2-X ECF-S-48L-12A-NW-G2-X ECF-S-32L-530-NW-G2-X ECF-S-32L-530-NW-G2-X ECF-S-32L-530-NW-G2-X ECF-S-32L-530-NW-G2-X ECF-S-32L-530-NW-G2-X ECF-S-32L-530-NW-G2-X ECF-S-32L-12A-NW-G2-X	48 48 64 64 64 70tai 12EDs 32 32 32 32 32 32 32 32 32 32 32 32 32	1050 1200 900 1050 and Lt Current (mA) 1200 1050 1200 900 1050 1200 900 1050 1200 1050 1050 1200 1050 1200 1050	3000 3000 3000 3000 3000 4000 4000 4000	159 183 178 206 Value Average System 40 56 73 106 122 135 159 183 178 206 Average System 40 56 73 106 122	22,288 23,465 26,437 5,788 5,788 9,720 13,685 15,180 18,016 18,016 18,016 22,647 22,647 22,647 22,844 26,863 0,000 7,807 10,070 10,070 10,070 11,176	B3-U0-62 B3-U0-62 B4-U0-63 B4-U0-63 B4-U0-63 B4-U0-63 B2-U0-62 B2-U0-62 B3-U0-63 B3-U0-63 B3-U0-63 B3-U0-63 B3-U0-63 B3-U0-63 B3-U0-62 B2-U0-61 B3-U0-61 B2-0 B2-0 B2-0 B2-0 B2-0 B2-0 B2-0 B2-0	127 122 132 128 128 128 128 132 133 130 125 133 133 129 124 134 130 124 134 130 150 140 138 134 134 134	14,934 15,723 17,714 Lumen Output 5,713 7,714 9,509 13,388 14,851 17,625 23,327 26,280 0 13,388 22,156 23,327 26,280 0 0 0,454 2,327 26,280 0 0,454 2,327 26,280 0 0,454 2,327 26,280 0 0,454 2,327 2,454 2,555 2,5577 2,557 2,5577 2,5577 2,5577 2,55	B1-U0-G3 B1-U0-G3 B1-U0-G3 B1-U0-G3 B1-U0-G3 B1-U0-G2 B1-U0-G2 B1-U0-G2 B2-U0-G3 B2-U0-G3 B3-U0-G4 B3-U0-G4 B3-U0-G4 B3-U0-G4 B3-U0-G4 B0-U0-G2 B0-U0-G2 B0-U0-G2 B0-U0-G2 B1-U0-G2 B1-U0-G2	83 90 87 Efficacy (LPW) 143 133 130 122 130 122 130 128 121 131 131 132 128 Efficacy (LPW) 101 99 99 94 90	10,093 Lumen Output 5,934 7,713 9,949 9,949 14,006 15,537 18,440 20,880 23,179 24,405 27,495 27,495 Lumen Output 2,833 3,423 3,423 4,415 6,229 6,910	80-U0-G2 80- 80- 80- 81-U0-62 81-U0-62 81-U0-62 82-U0-63 83-U0-64 83-U0-64 83-U0-64 83-U0-64 83-U0-64 83-U0-64 83-U0-61 80-U0-61 8	Efficacy (LPW) 148 138 136 132 128 133 128 133 128 133 128 133 132 127 137 137 137 137 134 134 134 134 134 134 134 134 134 135 134 135 134 135 135 135 135 135 135 135 135 135 135	Output 6,094 7,922 10,218 14,384 15,956 18,937 21,444 23,806 25,063	BUG Rating B3-U0-G1 B3-U0-G2 B4-U0-G2 B4-U0-G2 B4-U0-G2 B4-U0-G3 B5-U0-G3 B5-U0-G3 B5-U0-G3	(LPW) 152 142 140 136 131 140 135 130 141	Output 5,898 7,667 9,889 13,923 15,443 18,329 20,755 23,040 24,258	BUG Rating B3-U0-G2 B3-U0-G2 B4-U0-G2 B4-U0-G2 B4-U0-G3 B5-U0-G3 B5-U0-G3 B5-U0-G3	
ECF-S-48L-1A-WW-G2-X ECF-S-48L-12A-WW-G2-X ECF-S-64L-1A-WW-G2-X ECF-S-64L-1A-WW-G2-X ECF-S-24L-365-NW-G2-X ECF-S-24L-365-NW-G2-X ECF-S-24L-365-NW-G2-X ECF-S-24L-365-NW-G2-X ECF-S-24L-365-NW-G2-X ECF-S-24L-365-NW-G2-X ECF-S-24L-1A-NW-G2-X ECF-S-48L-1A-NW-G2-X ECF-S-84L-1A-NW-G2-X ECF-S-84L-1A-NW-G2-X ECF-S-84L-1A-NW-G2-X ECF-S-84L-1A-NW-G2-X ECF-S-84L-1A-NW-G2-X ECF-S-84L-365-NW-G2-X ECF-S-84L-300-NW-G2-X ECF-S-32L-365-NW-G2-X ECF-S-32L-365-NW-G2-X ECF-S-32L-365-NW-G2-X ECF-S-32L-1A-NW-G2-X ECF-S-32L-1A-NW-G2-X ECF-S-32L-1A-NW-G2-X ECF-S-32L-1A-NW-G2-X ECF-S-32L-1A-NW-G2-X ECF-S-32L-1A-NW-G2-X ECF-S-32L-1A-NW-G2-X ECF-S-32L-1A-NW-G2-X ECF-S-32L-1A-NW-G2-X ECF-S-32L-1A-NW-G2-X ECF-S-32L-1A-NW-G2-X	48 48 64 64 64 70tai 12EDs 32 32 32 32 32 32 32 32 32 32 32 48 64 64 64 70tai 12EDs 32 32 32 32 32 32 32 32 32 32 32 32 32	1050 1200 900 1050 and Lt Current (mA) 365 530 700 1050 1200 900 1050 1200 900 1050 1200 900 1050 1200 900 105	3000 3000 3000 3000 4000 4000 4000 4000	169 183 178 206 Value Average System Watts 40 56 73 106 122 135 159 187 8 206 Average System Vatts 206	22,288 23,465 26,437 400000000000000000000000000000000000	B3-U0-62 B3-U0-62 B4-U0-63 B4-U0-63 B4-U0-63 B4-U0-63 B4-U0-63 B2-U0-62 B3-U0-63 B3-U0-63 B3-U0-63 B3-U0-63 B3-U0-63 B3-U0-62 B3-U0-63 B3-U0-62 B3-U0-	127 122 132 129 129 129 129 145 135 133 129 124 133 129 124 134 130 125 133 129 124 134 134 134 134 134 134 138 138	14,934 15,723 17,714 Lumen Cutput 5,713 7,7426 9,509 13,388 14,851 17,625 23,327 26,280 Lumen 5,412 6,930 9,756 9,976	B1-U0-G3 B1-U0-G3 B1-U0-G3 B1-U0-G3 B1-U0-G2 B1-U0-G2 B1-U0-G2 B2-U0-G3 B2-U0-G3 B3-U0-G4 B3-U0-G4 B3-U0-G3 B3-U0-G4 B3-U0-G4 B3-U0-G4 B0-U0-G2 B0-U0-G2 B0-U0-G2 B1-U0-G2 B1-U0-G2	83 90 87 Efficacy (LPW) 143 133 130 127 122 130 127 128 Efficacy 128 Efficacy 101 99 96 94 90 96	10,093 Lumen Output 5,934 14,006 15,537 18,440 20,880 23,179 24,405 27,495 24,405 27,495 Lumen Cutput 2,633 3,423 4,415 6,229 8,6310 8,200	80-U0-02 Type 4 80- 81-U0-62 82-U0-62 82-U0-63 82-U0-63 83-U0-64 83-U0-64 83-U0-64 83-U0-64 83-U0-64 83-U0-64 83-U0-64 80-U0-61 80-U0-61 80-U0-61 80-U0-62 80-U0-61	Efficacy (LPW) 148 138 136 132 132 132 132 132 132 132 132 133 134 135 132 132 127 137 134 136 132 137 134 136 132 137 134 136 132 137 134 136 132 137 134 136 132 136 132 137 137 136 132 136 136 136 136 136 136 136 136 136 136	Output 6,094 7,922 10,218 14,384 15,956 18,937 21,444 23,806 25,063	BUG Rating B3-U0-G1 B3-U0-G2 B4-U0-G2 B4-U0-G2 B4-U0-G2 B4-U0-G3 B5-U0-G3 B5-U0-G3 B5-U0-G3	(LPW) 152 142 140 136 131 140 135 130 141	Output 5,898 7,667 9,889 13,923 15,443 18,329 20,755 23,040 24,258	BUG Rating B3-U0-G2 B3-U0-G2 B4-U0-G2 B4-U0-G2 B4-U0-G3 B5-U0-G3 B5-U0-G3 B5-U0-G3	
ECF-S-48L-1A-WW-G2-X ECF-S-48L-12-WW-G2-X ECF-S-64L-1A-WW-G2-X ECF-S-64L-1A-WW-G2-X ECF-S-64L-1A-WW-G2-X ECF-S-28L-365-NW-G2-X ECF-S-28L-365-NW-G2-X ECF-S-28L-12-NW-G2-X ECF-S-28L-12-NW-G2-X ECF-S-48L-12-NW-G2-X ECF-S-48L-12-NW-G2-X ECF-S-48L-12-NW-G2-X ECF-S-28L-365-NW-G2-X ECF-S-28L-365-NW-G2-X ECF-S-28L-365-NW-G2-X ECF-S-28L-365-NW-G2-X ECF-S-28L-365-NW-G2-X ECF-S-28L-365-NW-G2-X ECF-S-28L-12-NW-G2-X ECF-S-28L-12-NW-G2-X ECF-S-28L-12-NW-G2-X ECF-S-28L-12-NW-G2-X ECF-S-28L-14-NW-G2-X ECF-S-28L-14-NW-G2-X ECF-S-28L-14-NW-G2-X ECF-S-28L-14-NW-G2-X ECF-S-28L-14-NW-G2-X ECF-S-28L-14-NW-G2-X ECF-S-28L-14-NW-G2-X ECF-S-28L-14-NW-G2-X ECF-S-28L-14-NW-G2-X	48 48 64 64 64 32 32 32 32 32 32 32 32 32 48 48 64 64 64 64 70tal 82 32 32 32 32 32 32 32 32 32 32 32 32 32	1050 1200 900 1050 and LU LED Current (mA) 365 530 700 1050	3000 3000 3000 3000 4000 4000 4000 4000	169 183 178 206 Value Average System 40 66 122 135 169 183 178 206 Average 53 199 183 178 206 Average 199 183 178 206	22,288 23,465 26,437 40 40 40 40 40 40 40 40 40 40 40 40 40	B3-U0-62 B4-U0-63 B4-U0-63 B4-U0-63 B4-U0-63 B4-U0-63 B2-U0-62 B3-U0-62 B3-U0-63 B3-U0-	127 122 132 128 128 128 145 133 130 145 133 125 133 125 133 129 124 134 130 150 140 138 134 129 138 138	14,934 15,723 17,714 Lumen Output 5,724 9,509 13,388 14,861 17,625 19,968 22,156 23,327 23,297 24,227 23,297 24,227 24,24	B1-U0-G3 B1-U0-G3 B1-U0-G3 B1-U0-G3 B1-U0-G3 B1-U0-G2 B1-U0-G2 B2-U0-G3 B2-U0-G3 B2-U0-G3 B3-U0-G4 B3-U0-G4 B3-U0-G4 B3-U0-G4 B0-U0-G2 B0-U0-G2 B0-U0-G2 B0-U0-G2 B1-U0-G2 B1-U0-G2 B1-U0-G2 B1-U0-G2 B1-U0-G2 B1-U0-G2 B1-U0-G2 B1-U0-G2 B1-U0-G2 B1-U0-G3	83 90 87 Efficacy (LPW) 143 133 130 127 122 130 128 121 130 128 121 131 132 Efficacy (LPW) 99 99 99 99 99 99 99 99 99 99 99	10,093 Lumen Output 5,934 7,713 9,949 9,949 14,006 15,537 18,440 20,880 23,179 24,405 27,495 27,495 Lumen Output 2,833 3,423 3,423 4,415 6,229 6,910	80-U0-G2 80- 80- 80- 81-U0-62 81-U0-62 81-U0-62 82-U0-63 83-U0-64 83-U0-64 83-U0-64 83-U0-64 83-U0-64 83-U0-64 83-U0-61 80-U0-61 8	Efficacy (LPW) 148 138 136 132 128 133 128 133 128 133 128 133 132 127 137 137 137 137 134 134 134 134 134 134 134 134 134 134	Output 6,094 7,922 10,218 14,384 15,956 18,937 21,444 23,806 25,063	BUG Rating B3-U0-G1 B3-U0-G2 B4-U0-G2 B4-U0-G2 B4-U0-G3 B5-U0-G3 B5-U0-G3 B5-U0-G3 B5-U0-G3	(LPW) 152 142 140 136 131 140 135 130 141	Output 5,898 7,667 9,889 13,923 15,443 18,329 20,755 23,040 24,258	BUG Rating B3-U0-G2 B3-U0-G2 B4-U0-G2 B4-U0-G2 B4-U0-G3 B5-U0-G3 B5-U0-G3 B5-U0-G3	
ECF-S-48L-1A-WW-G2-X ECF-S-48L-12A-WW-G2-X ECF-S-68L-900-WW-G2-X ECF-S-68L-1A-WW-G2-X ECF-S-68L-1A-WW-G2-X ECF-S-28L-365-NW-G2-X ECF-S-32L-365-NW-G2-X ECF-S-32L-1A-NW-G2-X ECF-S-32L-1A-NW-G2-X ECF-S-48L-1A-NW-G2-X ECF-S-48L-1A-NW-G2-X ECF-S-48L-1A-NW-G2-X ECF-S-48L-1A-NW-G2-X ECF-S-84L-1A-NW-G2-X ECF-S	48 48 64 64 64 70tai 12EDs 32 32 32 32 32 32 32 32 32 32 32 48 64 64 64 70tai 12EDs 32 32 32 32 32 32 32 32 32 32 32 32 32	1050 1200 900 1050 and Lt Current (mA) 365 530 700 1050 1200 900 1050 1200 900 1050 1200 900 1050 1200 900 105	3000 3000 3000 3000 4000 4000 4000 4000	169 183 178 206 Value Average System Watts 40 56 73 106 122 135 159 187 8 206 Average System Vatts 206	22,288 23,465 26,437 400000000000000000000000000000000000	B3-U0-62 B3-U0-62 B4-U0-63 B4-U0-63 B4-U0-63 B4-U0-63 B4-U0-63 B2-U0-62 B3-U0-63 B3-U0-63 B3-U0-63 B3-U0-63 B3-U0-63 B3-U0-62 B3-U0-63 B3-U0-62 B3-U0-	127 122 132 129 129 129 129 145 135 133 129 124 133 129 124 134 130 125 133 129 124 134 134 134 134 134 134 138 138	14,934 15,723 17,714 Lumen Cutput 5,713 7,7426 9,509 13,388 14,851 17,625 23,327 26,280 Lumen 5,412 6,930 9,756 9,976	B1-U0-G3 B1-U0-G3 B1-U0-G3 B1-U0-G3 B1-U0-G2 B1-U0-G2 B1-U0-G2 B2-U0-G3 B2-U0-G3 B3-U0-G4 B3-U0-G4 B3-U0-G3 B3-U0-G4 B3-U0-G4 B3-U0-G4 B0-U0-G2 B0-U0-G2 B0-U0-G2 B1-U0-G2 B1-U0-G2	83 90 87 Efficacy (LPW) 143 133 130 127 122 130 127 128 Efficacy 128 Efficacy 101 99 96 94 90 96	10,093 Lumen Output 5,934 14,006 15,537 18,440 20,880 23,179 24,405 27,495 24,405 27,495 Lumen Cutput 2,633 3,423 4,415 6,229 8,6310 8,200	80-U0-02 Type 4 80- 81-U0-62 82-U0-62 82-U0-63 82-U0-63 83-U0-64 83-U0-64 83-U0-64 83-U0-64 83-U0-64 83-U0-64 83-U0-64 80-U0-61 80-U0-61 80-U0-61 80-U0-62 80-U0-61	Efficacy (LPW) 148 138 136 132 132 132 132 132 132 132 132 133 134 135 132 132 127 137 134 136 132 137 134 136 132 137 134 136 132 137 134 136 132 137 134 136 132 136 132 137 137 136 132 136 136 136 136 136 136 136 136 136 136	Output 6,094 7,922 10,218 14,384 15,956 18,937 21,444 23,806 25,063	BUG Rating B3-U0-G1 B3-U0-G2 B4-U0-G2 B4-U0-G2 B4-U0-G3 B5-U0-G3 B5-U0-G3 B5-U0-G3 B5-U0-G3	(LPW) 152 142 140 136 131 140 135 130 141	Output 5,898 7,667 9,889 13,923 15,443 18,329 20,755 23,040 24,258	BUG Rating B3-U0-G2 B3-U0-G2 B4-U0-G2 B4-U0-G2 B4-U0-G3 B5-U0-G3 B5-U0-G3 B5-U0-G3	

ECF-S EcoForm small Area luminaire Specifications Driver: Driver efficiency (>90% standard). 120-480V available (restr Control options

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rm_area_small 04/24 page 9



factory for specs on optional or custom colors.

Exposure 10kV/10kA waveforms for Line-Ground, Line-Neutral and Neutral-Ground, and in accordance with DOE MSSLC Model Specification for LED

20kV / 10kA surge protection device that provides extra protection beyond the SP1 10kV/10kA level.

Lucrugs UL/cUL wet location listed to the UL 1598 standard, suitable for use in ambient temperatures from -40° to 40°C (-40° to 104°F). Most EcoForm configurations are qualified under Premium and Standard DesignLights Consortium® categories. Consult DLC Qualified Products list to confirm you specific luminaire selection is approved. CCTs 3000K and warmer are Dark Sky Approved.

electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) textured polyester powdercoat finish. Standard colors include bronze (BZ), black (BK), white (WH), dark gray (DGY), and medium gray (MGY). Consult

Each individual luminaire is uniquely identifiable, thanks to the Service tag

400 Crossing Blvd, Suite 600 281 Hillmount Road, Bridgewater, NJ 08807 Markham, ON, Canada Telephone: 800-555-0050 Telephone: 800-668-

Each standard color luminaire receives a fade and abrasion resistant,

Roadway Luminaires Appendix D Electrical Immunity High test level 10kV/10kA



Listings

Finish

Service Tag





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Specifications

Housing

Light engine

Control options

motion response.

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		_		_															
ECF-S	;	E	CC	ЪFс	orr	n s	ma	all											
Area lumi	nai	ire																	
OOOK LED Watt	age	and Lu	umen	Value	s														
		LED		Average		Туре 2			Type 3			Type 4			Type 5			Type 5W	
rdering Code	Total LEDs	Current (mA)	Color Temp.	System Watts	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
CF-S-32L-365-CW-G2-x	32	365	5000	40	5,798	B1-U0-G1	145	5,713	B1-U0-G2	143	5,934	B1-U0-G2	148	6,094	B3-U0-G1	152	5,898	B3-U0-G2	147
CF-S-32L-530-CW-G2-x	32	530	5000	56	7,536	B2-U0-G2	135	7,426	B1-U0-G2	133	7,713	B1-U0-G2	138	7,922	B3-U0-G2	142	7,667	B3-U0-G2	138
CF-S-32L-700-CW-G2-x CF-S-32L-1A-CW-G2-x	32	700 1050	5000 5000	73 106	9,720 13,685	B2-U0-G2 B3-U0-G2	133 130	9,509 13,388	B2-U0-G2 B2-U0-G3	130 127	9,949 14,006	B2-U0-G2 B2-U0-G3	136 133	10,218 14,384	B4-U0-G2 B4-U0-G2	140 136	9,889 13,923	B4-U0-G2 B4-U0-G2	136 132
CF-S-32L-1.2A-CW-G2-x	32	1200	5000	122	15,000	B3-00-G2	125	14,851	B2-00-G3	127	15,537	B2-U0-G3	128	15,956	B4-00-G2	130	15,443	B4-00-G2 B4-U0-G2	132
CF-S-48L-900-CW-G2-x	48	900	5000	135	18,016	B3-U0-G3	133	17,625	B3-U0-G3	130	18,440	B3-U0-G3	136	18,937	B4-U0-G3	140	18,329	B5-U0-G3	136
CF-S-48L-1A-CW-G2-x	48	1050	5000	159	20,401	B3-U0-G3	129	19,958	B3-U0-G4	126	20,880	B3-U0-G4	132	21,444	B5-U0-G3	135	20,755	B5-U0-G3	131
CF-S-48L-1.2A-CW-G2-x	48	1200	5000	183	22,647	B3-U0-G3	124	22,156	B3-U0-G4	121	23,179	B3-U0-G4	127	23,806	B5-U0-G3	130	23,040	B5-U0-G3	126
CF-S-64L-900-CW-G2-x	64	900	5000	178	23,844	B3-U0-G3	134		B3-U0-G4	131	24,405	B3-U0-G4	137	25063	B5-U0-G3	141	24258	B5-U0-G4	136
CF-S-64L-1A-CW-G2-x	64	1050	5000	206	26,863	B3-U0-G3	130	26,280	B3-U0-G4	128	27,495	B3-U0-G4	134	27526	B5-U0-G3	134	27330	B5-U0-G4	133
		LED		Average		Type AFR			BLC			LCL or RCL							
	Total	Current		System	Lumen		Efficacy	Lumen	BUG	Efficacy	Lumen	BUG	Efficacy						
rdering Code	LEDs	(mA)	Temp.	Watts	Output	Rating	(LPW)	Output	Rating	(LPW)	Output	Rating	(LPW)						
CF-S-32L-365-CW-G2-x CF-S-32L-530-CW-G2-x	32	365 530	5000 5000	40 56	6,006 7,807	B2-U0-G1 B2-U0-G1	150 140	3,991 5,412	B0-U0-G1 B0-U0-G2	101 99	2,633 3,423	B0-U0-G1 B0-U0-G1	67 62						
CF-S-32L-700-CW-G2-x	32	700	5000	73	10,070	B2-U0-G2	138	6,930	B0-U0-G2	96	4,415	B0-U0-G1	61						
CF-S-32L-1A-CW-G2-x	32	1050	5000	106	14,176	B3-U0-G2	134	9,756	B1-U0-G2	94	6,229	B0-U0-G2	60						
CF-S-32L-1.2A-CW-G2-x	32	1200	5000	122	15,725	B3-U0-G2	129	10,822	B1-U0-G2	90	6,910	B0-U0-G2	58						
CF-S-48L-900-CW-G2-x	48	900	5000	135	18,664	B3-U0-G2	138	12,843	B1-U0-G2	96	8,200	B0-U0-G2	62						
CF-S-48L-1A-CW-G2-x	48	1050	5000	159	21,133	B3-U0-G2	133	14,544	B1-U0-G3	93	9,286	B0-U0-G2	59						
CF-S-48L-1.2A-CW-G2-x CF-S-64L-900-CW-G2-x	48	1200	5000	183	23,461	B3-U0-G2	128	16,145	B1-U0-G3	90 97	40.050		62						
CF-S-64L-1A-CW-G2-x	64 64	900 1050	5000 5000	178 206	24,700 27,828	B3-U0-G2	139 135	16,998 19,150	B1-U0-G3 B1-U0-G3	9/	10,853	B0-U0-G2	62						
SE-S-64L-1A-CW-G2-x	64	1050	5000	206	27,828	B4-U0-G3	135	19,150	B1-U0-G3	94									

PWS PureForm LED wall sconce Wall mount Automatic Profile Dimming (CS/CM): Standard dimming profiles provide Housing Main body housing and door frame made of low copper die cast aluminum alloy for a high resistance to corrosion. Door hinges secured by aircraft cable to allow access to driver or other electronic components for servicing. The door frame acta as the main heat transfer component and it is optimized to allowing the main housing to have no fins, giving the freedom to have a clean minimalist aesthetic design while allowing it to house emergency battery backup equipment and various other options. Luminaire housing rate to IP65, tested in accordance to Section 9 of IEC 60598-1. Automatic of ming profile schedule. Automatic dimming profile schedule dwith the following settings: • CS6/CS30: Security for 7 hours night duration (Ex., 11 PM - 6 AM) CM50/CM30: Median for 8 hours night duration (Ex., 10 PM - 6 AM) Light engine comprises of a module of 16-LED aluminum metal clad board fully sealed with optics offered in multiples of 3 and 4 modules or 48 and 64 LEDs. Module is RoHS compliant. Direct Amber LED is narrow spectrum with dominant wavelength at 596 nm (peak wavelength at 601 nm). Contact factory for details. LED light engine is rated IP66 in accordance to Section 9 of IEC 60598-1. cold weather rated down to -20C (-4F) and integral to the luminaire, allowing for a consistent look between emergency and non-emergency sconces. A separate surface mount accessory box is not required. Emergency battery
 Optical systems
 separate surrace mount accessory toox is not required. It mergency battery pack is used with 48 Loofiguration in 300m & wired in parallel. Operating in emergency mode to meet various redundancy requirements. Secondary driver with relay immediately detects AC power loss and powers luminaire for with 0% uplight (U0 per IESNA TM-15).
 Optical systems Mounting
Mounting is completed through integral back plate that features a separate
recessed feature for hook and lock quick mount plate that secures with two
set screws from bottom of luminaire. Luminaire ships fully assembled,
ready to install.
Motion response options
Bi-Level Infrared Motion Response (BL-IMRI3): Motion Response module
is mounted integral to luminaire factory pre-programmed to 50% dimming
when not ordered with other control options. BL-IMRI is set/operates in the
following feature for the motion response (BL-IMRI3): Motion Response module
is mounted integral to luminaire factory pre-programmed to 50% dimming
when not ordered with other control options. BL-IMRI is set/operates in the
following feature for the motion response (BL-IMRI3): Motion Response module
is mounted integral to luminaire factory pre-programmed to 50% dimming
when not ordered with other control options. BL-IMRI is set/operates in the
following feature for the motion response in the following features following fashion: The motion sensor is set to a constant 50%. When motion is detected by the PIR sensor, the luminaire returns to full power/light output. 0-10V dimming (DD): Access to 0-10V dimming leads supplied through back of Dimming on low is factory set to 50% with 5 minutes default in "full power" prior to dimming back to low. When no motion is detected for 5 minutes, the luminaire (for secondary dimming controls by others). Cannot be used with other control options. Field Adjustable Wattage Selector (FAWS): Luminaire equipped with the ability Field Adjustable Wattage Selector (FAWS): Luminaire equipped with the ability to manually adjust the wattage in the field to reduce total luminaire lumen output and light levels. Comes pre-set to the highest position at details). details). the lumen output selected. Use chart below to estimate reduction in Infrared Motion Response Lenses (IMRI2/IMRI3): Infrared Motion Response lumen output desired. Cannot be used with other control options or Integral module is available with two different sensor lens types to accommodate various mounting heights and occupancy detection ranges. Lens #2 (IMR12) is designed for lower mounting heights up to 8 with larger coverage areas up to 44' diameter coverage area. Lens #3 (IMR13) is designed for mounting heights up to 20' with a 40' diameter coverage area. See charts for approximate detection patterns: FAWS Percent of Position Typical Lumen Output IMRI2 Luminaire or remote mount controller g 24' 11' 7 3 3 3 7 11' 24' 29' 10' 0' 10' 29' ď -Note: Typical value accuracy +/- 5% IMRI3 Luminaire or remote mount controller with #3 lens 0'

