SITE PLAN DOCUMENTS

MAVIS TIRES & BRAKES

REFERENCES AND CONTACTS

REFERENCES

- ♦ PRELIMINARY ALTA/NSPS LAND TITLE SURVEY: JENNIFER MARKS, PLS #L-5229 BL COMPANIES, INC 3420 TORINGDON WAY, SUITE 21
- CHARLOTTE, NC 28277 DATED: 05/10/2024
- JOB # /SURVEY JOB # 2400906 ELEVATIONS: NAVD 1988
- ♦ GEOTECHNICAL INVESTIGATION REPORT: ECS SOUTHEAST, LLC PROJECT #: 33:6830
- 1585 BUFFALO LAKE ROAD, SANFORD NC 27332 DATED: 05/02/2024
- ♦ARCHITECTURAL PLAN: NOT AVAILABLE AT THIS TIME.
- GOVERNING AGENCIES ♦ HARNETT COUNTY DEVELOPMENT SERVICES 420 MCKINNEY PKWY, LILLINGTON, NC 27546
- PHONE: (910) 893-7525 EMAIL: CENTRALPERMITTING@HARNETT.ORG
- ♦ HARNETT COUNTY BUILDING INSPECTIONS 420 MCKINNEY PKWY, LILLINGTON, NC 27546 POC: BRAD SUTTON, MANAGER OF BUILDING SERVICES PHONE: (910) 893-7580 EMAIL: BSUTTON@HARNETT.ORG
- ♦ HARNETT COUNTY PLANNING SERVICES 420 MCKINNEY PKWY, LILLINGTON, NC 27546 PHONE: (910) 893-7525
- EMAIL: CENTRALPERMITTING@HARNETT.ORG ◆ <u>FIRE DEPARTMENT</u> 1005 EDWARDS BROTHERS DR, LILLINGTON, NC 27546
- PHONE: (910) 893-7580 EMAIL: RDANIELS@HARNETT.ORG
- ♦ HARNETT REGIONAL WATER & SEWER 700 MCKINNEY PKWY, LILLINGTON, NC 27546 POC: KENNY KEEL, P.E.
- PHONE: (910) 893-7575 EMAIL: KKEEL@HARNETT.ORG

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.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL OF THE DRAWINGS AND SPECIFICATIONS ASSOCIATED WITH THIS PROJEC WORK SCOPE PRIOR TO THE INITIATION OF CONSTRUCTION. SHOULD THE CONTRACTOR FIND A CONFLICT WITH THE DOCUMENTS RELATIVE T THE SPECIFICATIONS OR APPLICABLE CODES, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE PROJECT ENGINEER OF RECORD IN WRITING PRIOR TO THE START OF CONSTRUCTION. FAILURE BY THE CONTRACTOR TO NOTIFY THE PROJECT ENGINEER SHALL CONSTITU CEPTANCE OF FULL RESPONSIBILITY BY THE CONTRACTOR TO COMPLETE THE SCOPE OF THE WORK AS DEFINED BY THE DRAWINGS A



1585 BUFFALO LAKE ROAD SANFORD, NORTH CAROLINA 27332 HARNETT COUNTY PIN: 9586-78-3406.000





LOCATION MAP SCALE: 1" = 2,000' SOURCE: GOOGLE EARTH

OWNER

VENTURE PROPERTIES VI, LLC 126 EXECUTIVE DRIVE, SUITE 200 WILKESBORO, NC 26697 EMAIL: AARON@VPDEVELOPMENT.COM PHONE: (336) 667-8000 (EXT. 118)

DEVELOPER MAVIS TIRE SUPPLY, LLC 358 SAW MILL RIVER ROAD MILLWOOD, NY 10546 EMAIL: KMORSE@MAVISTIRE.COM PHONE: (570) 337-9919

PREPARED BY



CONTACT: TYLER HOORN, P.E. EMAIL: THOORN@BOHLERENG.COM



SHEET TITLE	SHEET NUMBER
COVER SHEET	C-101
GENERAL NOTES AND LEGEND	C-102
REQUIRED HARNETT COUNTY NOTES	C-103
EXISTING CONDITIONS/DEMOLITION PLAN	C-201
ALTA/NSPS SURVEY (BY OTHERS)	C-202
SITE PLAN	C-301
PAVING PLAN	C-302
GRADING AND DRAINAGE PLAN	C-401
UTILITY PLAN	C-501
HARNETT COUNTY UTILITY DETAILS	C-502
UTILITY DETAILS	C-503
SANITARY PROFILES	C-601
STORM PROFILES	C-602
EROSION AND SEDIMENT CONTROL PLAN PHASE I	C-801
EROSION AND SEDIMENT CONTROL PLAN PHASE II	C-802
EROSION AND SEDIMENT CONTROL NOTES AND DETAILS	C-803 & C-804
CONSTRUCTION DETAILS	C-901
LANDSCAPE PLAN	L-101
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LIGHTING PLAN	L-201
LIGHTING NOTES AND DETAILS	L-202

I hereby certify that the Harnett County Development Review Board has approved this Site Plan pursuant to the regulations set forth by E-911 Addressing, Environmental Health, Fire Marshal, Planning, and Harnett Regional Water. This project is subject to all federal, state, and local government regulations and applicable expiration periods.

	BOHLER ENGINEERING NC. PLLC	SITE CIVIL AND CONSULTING ENGINEERING LAND SURVEYING PROGRAM MANAGEMENT LAND SURVEYING PROGRAM MANAGEMENT LANDSCAPE ARCHITECTURE SUSTAINABLE DESIGN PERMITTING SERVICES TANDSORTATION SERVICES TRANSPORTENT AND SHALL NOT BE COFIED FANT PURPOSE ANHORTATION FEROMENT OF THIS PLANARE PROPRIETARY AND SHALL NOT BE COFIED FANT PURPOSE ANHORTATION FEROMENT OF THIS PLANARE PROPRIETARY AND SHALL NOT BE COFIED FANT PURPOSE ANHORTATION FEROMENT OF THIS PLANARE PROPRIETARY AND SHALL NOT BE COFIED FANT PURPOSE
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PRO.	DO DO 1605 BU SAN	PROP. TE PLAN CUMENTS FOR FOR FOR FOR PROPOSED EVELOPMENT UFFALO LAKE ROAD IFORD, NC 27322 RNETT COUNTY
со		RNETT COUNTY ROJECT #: SITE2410-0001
_	BOHLER EN	HLER GINEERING NC, PLLC NCBELS P-1132 AKE AVENUE, SUITE 200
413	RAL Phon	LEIGH, NC 27612 ne: (919) 578-9000
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		COVER SHEET
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ISSUED FOR CONSTRUCTION

SIGNATURE DATE SIGNATURE

SIGNATURE DATE DATE

REVISION 1 - 02/06/25

THIS DOCUMENT IS NOT ISSUED BY BOHLER ENGINEERING NC, PLLC FOR CONSTRUCTION WITHOUT THREE (3) SIGNATURES

> PROJECT #: NCB240013.00

REVISION DATE:

GENERAL NOTES

- THESE PLANS ARE SOLELY BASED ON INFORMATION THE OWNER AND OTHERS PROVIDED TO BOHLER ENGINEERING NC. PLLC
- 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. THIS 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 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, THEN 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 IE 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
- ON INSURANCE EMPLOYER'S LIABILITY INSURANCE AND COMMERCIAL GENERAL LIABILI 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 LIPON 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 OF THESE PLANS, AND FOR ANY CONFLICTS IN SCOPE AND REVISIONS THAT RESULT FROM SAME. THE CONTRACTOR IS FULLY AND SOLELY SOIL EROSION & SEDIMENT CONT 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 JURISDICTION OVER THE PROJECT AND/OR PROPERTY. BOHLER PARTIES HAVE NO AUTHORITY TO EXERCISE ANY CONTROL OVER (OR AN) 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
- 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 SOLELY 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 **SITE LAYOUT NOTES** 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 POLLUTION 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

(Rev. 1/2023)

. THE GENERAL NOTES MUST BE INCLUDED AS PART OF THIS ENTIRE DOCUMENT P DOCUMENTS. THE GENERAL NOTES ARE REFERENCED HEREIN, AND THE CONTR COMPLY WITH THESE NOTES. IN THEIR ENTIRETY. THE CONTRACTOR MUST BE FAMI WITH ALL OF THE GENERAL NOTES AND ALL OF THE PLANS' SPECIFIC NOTES. THE CONTRACTOR MUST CONDUCT DEMOLITION/REMOVALS ACTIVITIES IN SU INTERFERENCE WITH ROADS STREETS SIDEWALKS WALKWAYS AND ALL OTHER MUST OBTAIN ALL APPLICABLE PERMITS FROM THE APPROPRIATE GOVERN COMMENCEMENT OF ANY ROAD OPENING OR DEMOLITION ACTIVITIES IN OR ADJACE

- WHEN DEMOLITION-RELATED ACTIVITIES IMPACT ROADWAYS AND/OR ROADWAY PROVIDE TRAFFIC CONTROL AND GENERALLY ACCEPTED SAFE PRACTICES IN CO HIGHWAY ADMINISTRATION "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MU REGULATIONS THE DEMOLITION (AND/OR REMOVALS) PLAN IS INTENDED TO PROVIDE GENER/ ONDITIONS REGARDING ITEMS TO BE DEMOLISHED, REMOVED, AND/OR TO REMAIN
- THE CONTRACTOR MUST ALSO REVIEW ALL CONSTRUCTION DOCUMENTS AND ALL INCIDENTAL WORK NECESSARY FOR THE CONSTRUCTION OF THE NEW SITE THIS PLAN IS NOT INTENDED TO AND DOES NOT PROVIDE DIRECTION REGAR TECHNIQUES AND PROCEDURES TO BE EMPLOYED TO ACCOMPLISH THE W ECHNIQUES AND PROCEDURES TO BE USED MUST BE IN STRICT ACCORDAN FEDERAL, LOCAL, AND JURISDICTIONAL REQUIREMENTS. THE CONTRACTOR SAFETY PRECAUTIONS NECESSARY TO PROVIDE A SAFE WORK SITE FOR THE CO THE CONTRACTOR MUST PROVIDE ALL "METHODS AND MEANS" NECESSARY TO
- COLLAPSE OF EXISTING STRUCTURES AND ANY OTHER IMPROVEMENTS THAT CONTRACTOR AT THE CONTRACTOR'S SOLE COST MUST REPAIR ALL DAMAGE T REMAIN. CONTRACTOR MUST USE NEW MATERIAL FOR ALL REPAIRS. CON RESTORATION OF ALL ITEMS AND FEATURES REPAIRED TO THEIR PRE-DEMOLITION (PERFORM ALL REPAIRS AT THE CONTRACTOR'S SOLE EXPENSE. THE PROFESSIONAL OF RECORD AND BOHLER ARE NOT RESPONSIBLE FOR CONTRACTOR MUST PROCEED WITH THE DEMOLITION IN A SYSTEMATIC AND SA REQUIREMENTS, TO ENSURE PUBLIC AND CONTRACTOR SAFETY AND SAFETY TO AL
- NEAR TO THE SAME. THE CONTRACTOR IS RESPONSIBLE FOR JOB SITE SAFETY, WHICH MUST INCLUDE, AND MAINTENANCE OF BARRIERS, FENCING, OTHER APPROPRIATE AND/OR NE NECESSARY TO PROTECT THE PUBLIC FROM AREAS OF CONSTRUCTION AND CO MUST SAFEGUARD THE SITE AS NECESSARY TO PERFORM THE DEMOLITION IN SUC ALL UNAUTHORIZED PERSONS AT ANY TIME. TO OR NEAR THE DEMOLITION AREA. PRIOR TO THE COMMENCEMENT OF ANY SITE ACTIVITY AND ANY DEMOLITION ACT
- RAISE ANY QUESTIONS CONCERNING THE ACCURACY OR INTENT OF THESE PLANS A QUESTIONS REGARDING THE APPLICABLE SAFETY STANDARDS, AND/OR THE SAF PARTIES IN PERFORMING THE WORK ON THIS PROJECT. ANY SUCH CONCERNS MUS RECORD AND BOHLER. IN WRITING AND MUST ADDRESS ALL ISSUES AND ITEMS RECORD AND BY BOHLER IN WRITING ALL DEMOLITION ACTIVITIES MUST BE REQUIREMENTS OF THESE PLANS AND SPECIFICATIONS AND ALL APPLICABLE F RULES, REQUIREMENTS, STATUTES, ORDINANCES AND CODES. THE CONTRACTOR MUST BECOME FAMILIAR WITH THE APPLICABLE UTILITY SE
- RESPONSIBLE FOR ALL COORDINATION REGARDING UTILITY DEMOLITION AND/OR DIS FOR THE PROJECT. THE CONTRACTOR MUST PROVIDE THE OWNER WITH WRITTEN AND SERVICES HAVE BEEN TERMINATED, REMOVED AND/OR ABANDONED IN ACCOR COMPANY REQUIREMENTS AND ALL OTHER APPLICABLE REQUIREMENTS, BUILES, ST PRIOR TO COMMENCING ANY DEMOLITION. THE CONTRACTOR MUST A. OBTAIN ALL REQUIRED PERMITS AND MAINTAIN THE SAME ON SITE FOR REVIEW ALL PUBLIC AGENCIES WITH JURISDICTION THROUGHOUT THE DURATION OF
- B. NOTIFY, AT A MINIMUM, THE MUNICIPAL ENGINEER, DESIGN ENGINEER, AND LO LEAST 72 BUSINESS HOURS PRIOR TO THE COMMENCEMENT OF WORK. INSTALL THE REQUIRED SOIL EROSION AND SEDIMENT CONTROL MEASURES PI SAID CONTROLS UNTIL SITE IS STABILIZED
- IN ACCORDANCE WITH STATE LAW, THE CONTRACTOR MUST CALL THE STATE ON UTILITY MARK OUT, IN ADVANCE OF ANY EXCAVATION. LOCATE AND PROTECT ALL UTILITIES AND SERVICES. INCLUDING BUT NOT LIM AND STORM SEWER. TELEPHONE, CABLE, FIBER OPTIC CABLE, ETC, WITHIN ACTIVITIES. THE CONTRACTOR MUST USE AND COMPLY WITH THE REQU NOTIFICATION SYSTEM TO LOCATE ALL UNDERGROUND UTILITIES. PROTECT AND MAINTAIN IN OPERATION, ALL ACTIVE UTILITIES AND SYSTEMS T
- DEMOLITION ACTIVITIES ARRANGE FOR AND COORDINATE WITH THE APPLICABLE UTILITY SERVICE PERMANENT TERMINATION OF SERVICE REQUIRED BY THE PROJECT PLAN METHODS AND MEANS TO CONSTRUCT SAME. THESE ARE NOT THE PI RESPONSIBILITY. IN THE EVENT OF ABANDONMENT, THE CONTRACTOR MUST P WITH IMMEDIATE WRITTEN NOTIFICATION THAT THE EXISTING UTILITIES AND ABANDONED IN ACCORDANCE WITH JURISDICTIONAL AND UTILITY COMPANY RE ARRANGE FOR AND COORDINATE WITH THE APPLICABLE UTILITY SERVICE PRO HOURS OR ON WEEKENDS AS NECESSARY OR AS REQUIRED TO MINIMIZE T
- PARTIES. WORK REQUIRED TO BE PERFORMED "OFF-PEAK" IS TO BE PERFORMED IN THE EVENT THE CONTRACTOR DISCOVERS ANY HAZARDOUS MATERIAL. THE THE PROJECT PLANS AND SPECIFICATIONS OR THE CONTRACT WITH THE OV IMMEDIATELY CEASE ALL WORK IN THE AREA OF DISCOVERY, AND IMMEDIATE OWNER, PROFESSIONAL OF RECORD AND BOHLER, THE DISCOVERY OF SL COMPLIANT REMOVAL OF SAME. THE CONTRACTOR MUST NOT PERFORM ANY EARTH MOVEMENT ACTIVITIES, DEMOL FOOTINGS, OR OTHER MATERIALS WITHIN THE LIMITS OF DISTURBANCE, UNLES CONFORMANCE WITH THE PROJECT PLANS AND SPECIFICATIONS, OR PURSUANT TO STRUCTURAL OR GEOTECHNICAL ENGINEER. DEMOLITION ACTIVITIES AND FOUIPMENT MUST NOT USE OR INCLUDE AREAS (
- WITHOUT SPECIFIC WRITTEN PERMISSION AND AUTHORITY OF AND FROM THE C WITH JURISDICTION. THE CONTRACTOR MUST BACKFILL ALL EXCAVATION RESULTING FROM, OR INCIDE MUST BE ACCOMPLISHED WITH APPROVED BACKFILL MATERIALS AND MUST BE SU NEW IMPROVEMENTS AND MUST BE PERFORMED IN COMPLIANCE WITH THE RECOM IN THE GEOTECHNICAL REPORT BACKELLING MUST OCCUR IMMEDIATELY AFT PERFORMED SO AS TO PREVENT WATER ENTERING THE EXCAVATION. FINISHED
- POSITIVE DRAINAGE THE CONTRACTOR IS RESPONSIBLE FOR COMPACTION TEST RESULTS TO THE PROFESSIONAL OF RECORD AND THE OWNER. EXPLOSIVES MUST NOT BE USED WITHOUT PRIOR WRITTEN CONSENT FROM NECESSARY AND REQUIRED GOVERNMENTAL AUTHORITIES. PRIOR TO COMMENCIN DEMOLITION ACTIVITIES. THE CONTRACTOR MUST ENSURE AND OVERSEE THE INST AND EXPLOSIVE CONTROL MEASURES THAT THE FEDERAL STATE AND LOCAL G ALSO RESPONSIBLE TO CONDUCT AND PERFORM ALL INSPECTION AND SEISMIC
- MONITOR THE EFFECTS ON ALL LOCAL STRUCTURES AND THE LIKE. IN ACCORDANCE WITH FEDERAL, STATE, AND/OR LOCAL STANDARDS, THE CONTRA TO LIMIT AIRBORNE DUST AND DIRT RISING AND SCATTERING IN THE AIR. AF CONTRACTOR MUST CLEAN ALL ADJACENT STRUCTURES AND IMPROVEMENTS TO DEMOLITION OPERATIONS CAUSE. THE CONTRACTOR IS RESPONSIBLE FOR RE "PRE-DEMOLITION" CONDITION AT CONTRACTOR'S SOLE COST 16. PAVEMENT MUST BE SAW CUT IN STRAIGHT LINES. ALL DEBRIS FROM REMOVAL O
- SITE AT THE TIME OF EXCAVATION. STOCKPILING OF DEBRIS OUTSIDE OF APP INCLUDING BUT NOT LIMITED TO, THE PUBLIC RIGHT-OF-WAY. 7. THE CONTRACTOR MUST MAINTAIN A RECORD SET OF PLANS WHICH INDICATES THE CAPPED. ABANDONED IN PLACE. OR RELOCATED DUE TO DEMOLITION ACTIVI PREPARED IN A NEAT AND WORKMAN-I IKE MANNER AND TURNED OVER TO THE OWI WORK, ALL OF WHICH IS AT THE CONTRACTOR'S SOLE COST.

IN ACCORDANCE WITH FEDERAL, STATE, COUNTY AND LOCAL REQUIREMENTS, PR AREA AROUND THE TANK WHICH EMPTYING, CLEANING AND REMOVAL ARE AT THE CO

(Rev. 4/2023)

- THE GENERAL NOTES MUST BE INCLUDED AS PART OF THIS ENTIRE DOCUMENT PA DOCUMENTS. THE GENERAL NOTES ARE REFERENCED HEREIN, AND THE CONTRA OMPLY WITH THESE NOTES. IN THEIR ENTIRETY, THE CONTRACTOR MUST BE FAMIL WITH ALL OF THE GENERAL NOTES AND ALL OF THE PLANS' SPECIFIC NOTES. FROSION CONTROL MEASURES MUST CONFORM TO THE NORTH CAROLINA GUIDE CONTROL UNLESS OTHERWISE NOTED, OR UNLESS THE PROFESSIONAL OF RECORD DIRECTS OTHERWISE, INSTALLATION OF EROSION CONTROL, CLEARING, AND SITE
- INDICATED IN THE EROSION CONTROL CONSTRUCTION NOTES. THE DISTURBED LAND AREA OF THIS SITE IS APPROXIMATELY 0.95 ACRES. INSTALLATION OF EROSION CONTROL DEVICES MUST BE IN ACCORDANCE RECOMMENDATIONS THE CONTRACTOR MUST INSPECT EROSION CONTROL MEASURES WEEKLY. THE
- DEPOSITS GREATER THAN 6" COLLECTED ON THE FILTER FABRIC AND/OR SILT SOC ANY SILT FROM DROP INLET PROTECTION. THE CONTRACTOR MUST APPLY TEMPORARY SEED AND MULCH TO ALL DISTURBE FINISHED GRADE AND VEGETATED WITHIN 7 DAYS. WHEN AREAS ARE DISTURE CONTRACTOR MUST STABILIZE SAME WITH GEOTEXTILE FABRIC AND MAINTAIN S. MANAGEMENT PRACTICES.
- THE CONTRACTOR MUST INSTALL ADDITIONAL EROSION CONTROL MEASURES IF THE) PREVENT ANY, INCLUDING THE INCIDENTAL, DISCHARGE OF SILT-LADEN RUNOFF I THE CONTRACTOR MUST BE RESPONSIBLE FOR INSPECTING AND MAINTAINING ALL INTIL PERMANENT PAVING AND TURF/LANDSCAPING IS ESTABLISHED. THE COS EROSION CONTROL MEASURES MUST BE INCLUDED IN THE BID PRICE FOR THE
- RESPONSIBLE FOR ALL SUCH COSTS. THE CONTRACTOR MUST CONTINUE TO MAINTAIN ALL EROSION CONTROL CONSTRUCTION AND THE ESTABLISHMENT OF VEGETATION. THE CONTRACTOR MUST REMOVE EROSION CONTROL MEASURES, SILT AND VEGETATION COVER OR OTHER INSTALLING A DIFFERENT, SPECIFIED METHOD OF STA
- THIS PLAN REPRESENTS THE MINIMUM LEVEL OF IMPLEMENTATION OF TEMPORAR FACILITIES MEASURES AND STRUCTURES ADDITIONAL FACILITIES MEASURES AND NECESSARY TO COMPLY WITH ALL APPLICABLE CODES AND STANDARDS AND/OR TO DISCHARGE OF SILT-LADEN RUNOFF FROM EXITING THE SITE. THE CONTRACTOR MUST PROTECT ALL EXISTING TREES AND SHRUBS. THE CONTRACTOR MUST PROTECT ALL EXISTING TREES AND SHRUBS. AND/OR DEMOLITION PLAN(S) FOR TREE PROTECTION, FENCE LOCATIONS AND DETAIL THE CONTRACTOR MUST REFER TO GRADING PLANS FOR ADDITIONAL INFORMATION.
- THE CONTRACTOR MUST CLEAN EXISTING AND PROPOSED DRAINAGE STRUCTUR OFF-SITE AS THE JURISDICTIONAL AGENCY REQUIRES. BOTH AT THE TIME OF SITE ST SOIL EROSION CONTROL MEASURES MUST BE ADJUSTED OR RELOCATED BY THE OBSERVATION IN ORDER TO MAINTAIN THE COMPLETE EFFECTIVENESS OF ALL CONT THE CONTRACTOR MUST IDENTIFY, ON THE PLAN, THE LOCATION OF WASTE CON WASHOUT AREAS AND ANY OTHER LOCATIONS WHERE HAZARDOUS MATERIALS ARE S

- THE GENERAL NOTES MUST BE INCLUDED AS PART OF THIS ENTIRE DOCUMENT P DOCUMENTS. THE GENERAL NOTES ARE REFERENCED HEREIN, AND THE CONTR COMPLY WITH THESE NOTES, IN THEIR ENTIRETY. THE CONTRACTOR MUST BE FAMIL WITH ALL OF THE GENERAL NOTES AND ALL OF THE PLANS' SPECIFIC NOTES. PRIOR TO THE COMMENCEMENT OF GENERAL CONSTRUCTION. THE CONTRACTOR I ANY STORMWATER POLLUTION PREVENTION PLAN (SWPPP) MEASURES NECESSAR EROSION AND SEDIMENT CONTROL PLAN AND IN ACCORDANCE WITH APPLICABLE ANI O PREVENT SEDIMENT AND/OR LOOSE DEBRIS FROM WASHING ONTO ADJACENT PE
- ALL DIRECTIONAL/TRAFFIC SIGNING AND PAVEMENT STRIPING MUST CONFORM TO TH UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND ANY APPLICABLE STATE GUIDELINES RULES REGULATIONS STANDARDS AND THE LIKE
- THE LOCATIONS OF PROPOSED UTILITY POLES AND TRAFFIC SIGNS SHOWN ON THE PLANS ARE SCHEMATIC AND PRELIMINARY ANY CONSTRUCTION AND MUST VERIEV THAT THE INFORMATION IS THE LATEST. THE MOST RECENT AND THE MOST CURRENT 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 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.

AS DESCRIBED ABOVE

THE GENERAL NOTES MUST BE INCLUDED AS PART OF THIS ENTIRE DOCUMENT PACKAGE AND ARE PART OF THE CONTRACT	1. THE GENERAL NOTES MUST BE INCLUDED AS PART OF THIS ENTIRE DOCUMENT PACKAGE AND ARE PART OF THE CONTRACT		BREVIATIONS	N
DOCUMENTS. THE GENERAL NOTES ARE REFERENCED HEREIN, AND THE CONTRACTOR MUST REFER TO THEM AND FULLY 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.	DOCUMENTS. THE GENERAL NOTES ARE REFERENCED HEREIN, AND THE CONTRACTOR MUST REFER TO THEM AND FULLY 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.	FO	OR ENTIRE PLAN SET	м
THE CONTRACTOR MUST CONDUCT DEMOLITION/REMOVALS ACTIVITIES IN SUCH A MANNER AS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, SIDEWALKS, WALKWAYS, AND ALL OTHER ADJACENT FACILITIES. THE CONTRACTOR		AASHTO	STATE HIGHWAY AND TRANSPORTATION OFFICIALS	N
MUST OBTAIN ALL APPLICABLE PERMITS FROM THE APPROPRIATE GOVERNMENTAL AUTHORITY(IES) PRIOR TO THE COMMENCEMENT OF ANY ROAD OPENING OR DEMOLITION ACTIVITIES IN OR ADJACENT 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
WHEN DEMOLITION-RELATED ACTIVITIES IMPACT ROADWAYS AND/OR ROADWAY RIGHT-OF-WAY, THE CONTRACTOR MUST PROVIDE TRAFFIC CONTROL AND GENERALLY ACCEPTED SAFE PRACTICES IN CONFORMANCE WITH THE CURRENT FEDERAL HIGHWAY ADMINISTRATION "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), AND THE FEDERAL, STATE, AND LOCAL	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 MATERIAL SOURCES AND DISPOSAL FACILITIES. THE CONTRACTOR MUST SUPPLY A COPY OF APPROVALS TO THE	AD	AREA DRAIN	N
THE DEMOLITION (AND/OR REMOVALS) PLAN IS INTENDED TO PROVIDE GENERAL INFORMATION AND TO IDENTIFY ONLY	PROFESSIONAL OF RECORD, BOHLER AND THE OWNER PRIOR TO THE CONTRACTOR COMMENCING ANY WORK.	ADA	ACCESSIBLE / AMERICANS WITH DISABILITIES ACT	MU
CONDITIONS REGARDING ITEMS TO BE DEMOLISHED, REMOVED, AND/OR TO REMAIN. A. THE CONTRACTOR MUST ALSO REVIEW ALL CONSTRUCTION DOCUMENTS AND INCLUDE WITHIN THE DEMOLITION ACTIVITIES ALL INCIDENTAL WORK OF DESCRIPTION OF THE DEMOLITION OF THE INDEX FOR THE DEMOLITION ACTIVITIES	ELEVATIONS PRIOR TO COMMENCING ANY CONSTRUCTION. SHOULD DISCREPANCIES BETWEEN THE PLANS AND INFORMATION OBTAINED THROUGH FIELD VERIFICATIONS BE IDENTIFIED OR EXIST, THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE PROFESSIONAL OF RECORD AND BOHLER. IN WRITING.	AG	ABOVE GROUND	NC
ALL INCIDENTAL WORK NECESSARY FOR THE CONSTRUCTION OF THE NEW SITE IMPROVEMENTS. B. THIS PLAN IS NOT INTENDED TO AND DOES NOT PROVIDE DIRECTION REGARDING THE MEANS, METHODS, SEQUENCING, TECHNIQUES AND PROCEDURES TO BE EMPLOYED TO ACCOMPLISH THE WORK. ALL MEANS, METHODS, SEQUENCING,		APPROX	APPROXIMATE	
TECHNIQUES AND PROCEDURES TO BE USED MUST BE IN STRICT ACCORDANCE AND CONFORMANCE WITH ALL STATE, FEDERAL, LOCAL, AND JURISDICTIONAL REQUIREMENTS. THE CONTRACTOR 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 ASPH	ARCHITECTURAL	NF
SAFETY PRECAUTIONS NECESSARY TO PROVIDE A SAFE WORK SITE FOR THE CONTRACTOR AND THE PUBLIC. THE CONTRACTOR MUST PROVIDE ALL "METHODS AND MEANS" NECESSARY TO PREVENT MOVEMENT, SETTLEMENT, OR COLLAPSE OF EXISTING STRUCTURES, AND ANY OTHER IMPROVEMENTS THAT ARE REMAINING ON OR OFF SITE. THE	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 AND THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL REPORT AND ALL APPLICABLE REQUIREMENTS, RULES.	ASSF	AREA SUBJECT TO	0
CONTRACTOR, AT THE CONTRACTOR'S SOLE COST, MUST REPAIR ALL DAMAGE TO ALL ITEMS AND FEATURES THAT ARE TO REMAIN. CONTRACTOR MUST USE NEW MATERIAL FOR ALL REPAIRS. CONTRACTOR'S REPAIRS MUST INCLUDE THE	STATUTES, LAWS, ORDINANCES AND CODES WHICH ARE IN EFFECT AND WHICH ARE APPLICABLE TO THE PROJECT. SUBBASE MATERIAL FOR SIDEWALKS, CURB, OR ASPHALT MUST BE FREE OF ORGANICS AND OTHER UNSUITABLE MATERIALS. SHOULD	ASSOC	STORMWATER FLOWAGE	C
RESTORATION OF ALL ITEMS AND FEATURES REPAIRED TO THEIR PRE-DEMOLITION CONDITION, OR BETTER. CONTRACTOR MUST PERFORM ALL REPAIRS AT THE CONTRACTOR'S SOLE EXPENSE. THE PROFESSIONAL OF RECORD AND BOHLER ARE NOT RESPONSIBLE FOR JOB SITE SAFETY OR SUPERVISION. THE	SUBBASE BE DEEMED UNSUITABLE BY OWNER/DEVELOPER, OR OWNER/DEVELOPER'S REPRESENTATIVE, SUBBASE MUST BE 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
CONTRACTOR MUST PROCEED WITH THE DEMOLITION IN A SYSTEMATIC AND SAFE MANNER, COMPLYING WITH ALL OSHA REQUIREMENTS, TO ENSURE PUBLIC AND CONTRACTOR SAFETY AND SAFETY TO ALL PROPERTY ON THE SITE OR ADJACENT OR	RECOMMENDATIONS IN THE GEOTECHNICAL REPORT AND ALL APPLICABLE REQUIREMENTS, RULES, STATUTES, LAWS, ORDINANCES AND CODES. EARTHWORK ACTIVITIES MUST COMPLY WITH THE STANDARD STATE DOT SPECIFICATIONS FOR	BF	BASEMENT FLOOR	0
NEAR TO THE SAME. THE CONTRACTOR IS RESPONSIBLE FOR JOB SITE SAFETY, WHICH MUST INCLUDE, BUT IS NOT LIMITED TO, THE INSTALLATION		BIO	BIOGARDEN	0
AND MAINTENANCE OF BARRIERS, FENCING, OTHER APPROPRIATE AND/OR NECESSARY SAFETY FEATURES AND ITEMS NECESSARY TO PROTECT THE PUBLIC FROM AREAS OF CONSTRUCTION AND CONSTRUCTION ACTIVITIES. THE CONTRACTOR MUST SAFEGUARD THE SITE AS NECESSARY TO PERFORM THE DEMOLITION IN SUCH A MANNER AS TO PREVENT THE ENTRY OF	PLAN TAKES PRECEDENCE AND CONTROLS. THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE PROFESSIONAL OF RECORD AND BOHLER, IN WRITING, OF ANY DISCREPANCY(IES) AND/OR CONFLICT(S). 7. THE CONTRACTOR IS RESPONSIBLE TO IMPORT FILL OR EXPORT EXCESS MATERIAL AS NECESSARY TO CONFORM TO THE	BIT	BLOCK	PA/
ALL UNAUTHORIZED PERSONS AT ANY TIME, TO OR NEAR THE DEMOLITION AREA. PRIOR TO THE COMMENCEMENT OF ANY SITE ACTIVITY AND ANY DEMOLITION ACTIVITY, THE CONTRACTOR MUST, IN WRITING,	PROPOSED GRADING, AND TO BACKFILL EXCAVATIONS FOR THE INSTALLATION OF UNDERGROUND IMPROVEMENTS.	BL	BASELINE	PC
RAISE ANY QUESTIONS CONCERNING THE ACCURACY OR INTENT OF THESE PLANS AND/OR SPECIFICATIONS, ALL CONCERNS OR QUESTIONS REGARDING THE APPLICABLE SAFETY STANDARDS, AND/OR THE SAFETY OF THE CONTRACTOR AND/OR THIRD PARTIES IN PERFORMING THE WORK ON THIS PROJECT. ANY SUCH CONCERNS MUST BE CONVEYED TO THE PROFESSIONAL OF	ACCESSIBILITY DESIGN GUIDELINES (Rev. 1/2023)	BLDG	BUILDING	PE
RECORD AND BOHLER, IN WRITING AND MUST ADDRESS ALL ISSUES AND ITEMS RESPONDED TO, BY THE PROFESSIONAL OF RECORD AND BY BOHLER, IN WRITING, ALL DEMOLITION ACTIVITIES MUST BE PERFORMED IN ACCORDANCE WITH THE	 ALL ACCESSIBLE (A.K.A. ADA) COMPONENTS AND ACCESSIBLE ROUTES MUST BE CONSTRUCTED TO MEET, AT A MINIMUM, THE MORE STRINGENT OF: (A) THE REQUIREMENTS OF THE "AMERICANS WITH DISABILITIES ACT" (ADA) CODE (42 U.S.C. § 12101 ET 	BM		F
REQUIREMENTS OF THESE PLANS AND SPECIFICATIONS AND ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS, RULES, REQUIREMENTS, STATUTES, ORDINANCES AND CODES.	SEQ. AND 42 U.S.C. § 4151 ET SEQ.); AND (B) ANY APPLICABLE LOCAL AND STATE GUIDELINES, AND ANY AND ALL AMENDMENTS TO BOTH, WHICH ARE IN EFFECT WHEN THESE PLANS WERE COMPLETED.	BRL	BUILDING RESTRICTION LINE BORDERING VEGETATIVE	F
THE CONTRACTOR MUST BECOME FAMILIAR WITH THE APPLICABLE UTILITY SERVICE PROVIDER REQUIREMENTS AND IS RESPONSIBLE FOR ALL COORDINATION REGARDING UTILITY DEMOLITION AND/OR DISCONNECTION AS IDENTIFIED OR REQUIRED FOR THE PROJECT. THE CONTRACTOR MUST PROVIDE THE OWNER WITH WRITTEN NOTIFICATION THAT THE EXISTING UTILITIES	CONSISTENCY WITH INDUSTRY GUIDELINES.	BVW	WETLAND CATCH BASIN	P
AND SERVICES HAVE BEEN TERMINATED, REMOVED AND/OR ABANDONED IN ACCORDANCE WITH THE JURISDICTION AND UTILITY COMPANY REQUIREMENTS AND ALL OTHER APPLICABLE REQUIREMENTS, RULES, STATUTES, LAWS, ORDINANCES AND CODES.	COMPONENTS AND ACCESSIBLE ROUTES FOR THE SITE. FINISHED SURFACES ALONG THE ACCESSIBLE ROUTE OF TRAVEL PROM PARKING SPACES, PUBLIC TRANSPORTATION, PEDESTRIAN ACCESS, AND INTER-BUILDING ACCESS, TO POINTS OF ACCESSIBLE	CB CF	CUBIC FEET	PR
PRIOR TO COMMENCING ANY DEMOLITION, THE CONTRACTOR MUST: A. OBTAIN ALL REQUIRED PERMITS AND MAINTAIN THE SAME ON SITE FOR REVIEW BY THE PROFESSIONAL OF RECORD AND ALL PUBLIC AGENCIES WITH JURISDICTION THROUGHOUT THE DURATION OF THE PROJECT. SITE WORK. AND DEMOLITION	BUILDING ENTRANCE/EXIT, MUST COMPLY WITH THE ACCESSIBLE GUIDELINES AND REQUIREMENTS WHICH INCLUDE, BUT ARE <u>NOT</u> LIMITED TO THE FOLLOWING: A. ACCESSIBLE PARKING SPACES AND ACCESS AISLES SLOPES MUST NOT EXCEED 1:50 (2.0%) IN ANY DIRECTION.	CI	CURB INLET	F
WORK. B. NOTIFY, AT A MINIMUM, THE MUNICIPAL ENGINEER, DESIGN ENGINEER, AND LOCAL SOIL CONSERVATION JURISDICTION, AT	 ACCESSIBLE <u>PARKING SPACES</u> AND <u>ACCESS AISES</u> SLOPES MOST NOT EXCEED 1:50 (2:0%) IN ANY DIRECTION. <u>PATH OF TRAVEL</u> ALONG ACCESSIBLE ROUTE MUST PROVIDE A 36-INCHES MINIMUM WIDTH (48-INCHES PREFERRED), OR AS SPECIFIED BY THE GOVERNING AGENCY. UNOBSTRUCTED WIDTH OF TRAVEL (CAR OVERHANGS AND/OR HANDRAILS) MUST 	CIT	CHANGE IN TYPE	PT
LEAST 72 BUSINESS HOURS PRIOR TO THE COMMENCEMENT OF WORK. C. INSTALL THE REQUIRED SOIL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO SITE DISTURBANCE, AND MAINTAIN	NOT REDUCE THIS MINIMUM WIDTH. THE SLOPE MUST NOT EXCEED 1:20 (5.0%) IN THE DIRECTION OF TRAVEL AND MUST NOT EXCEED 1:50 (2.0%) IN CROSS SLOPE. WHERE ACCESSIBLE PATH OF TRAVEL IS GREATER THAN 1:20 (5.0%), AN ACCESSIBLE	CL	CENTER LINE	P
SAID CONTROLS UNTIL SITE IS STABILIZED D. IN ACCORDANCE WITH STATE LAW, THE CONTRACTOR MUST CALL THE STATE ONE-CALL DAMAGE PROTECTION SYSTEM FOR UTILITY MARK OUT, IN ADVANCE OF ANY EXCAVATION.	RAMP MUST BE PROVIDED. ALONG THE ACCESSIBLE PATH OF TRAVEL, OPENINGS MUST NOT EXCEED 1/2-INCH IN WIDTH. 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.	CMP CO	CLEAN OUT	PV
E. LOCATE AND PROTECT ALL UTILITIES AND SERVICES, INCLUDING BUT NOT LIMITED TO GAS, WATER, ELECTRIC, SANITARY AND STORM SEWER, TELEPHONE, CABLE, FIBER OPTIC CABLE, ETC. WITHIN AND ADJACENT TO THE LIMITS OF PROJECT	C. <u>ACCESSIBLE RAMPS</u> MUST NOT EXCEED A SLOPE OF 1:12 (8.3%) AND A RISE OF 30-INCHES. <u>LEVEL LANDINGS</u> MUST BE PROVIDED AT EACH END OF ACCESSIBLE RAMPS. LANDING MUST PROVIDE POSITIVE DRAINAGE AWAY FROM STRUCTURES,	CONC	CONCRETE	P
ACTIVITIES. THE CONTRACTOR MUST USE AND COMPLY WITH THE REQUIREMENTS OF THE APPLICABLE UTILITY NOTIFICATION SYSTEM TO LOCATE ALL UNDERGROUND UTILITIES. F. PROTECT AND MAINTAIN IN OPERATION. ALL ACTIVE UTILITIES AND SYSTEMS THAT ARE NOT BEING REMOVED DURING ANY	AND MUST NOT EXCEED 1:50 (2.0%) SLOPE IN ANY DIRECTION. RAMPS THAT CHANGE DIRECTION BETWEEN RUNS AT LANDINGS MUST HAVE A CLEAR LANDING OF A MINIMUM OF 60-INCHES BY 60-INCHES. <u>HAND RAILS</u> ON BOTH SIDES OF THE RAMP MUST BE PROVIDED ON AN ACCESSIBLE RAMP WITH A RISE GREATER THAN 6-INCHES.	CONN	CONNECTION	F
DEMOLITION ACTIVITIES. G. ARRANGE FOR AND COORDINATE WITH THE APPLICABLE UTILITY SERVICE PROVIDER(S) FOR THE TEMPORARY OR	 D. ACCESSIBLE CURB RAMPS MUST NOT EXCEED A SLOPE OF 1:12 (8.3%). WHERE FLARED SIDES ARE PROVIDED, THEY MUST NOT EXCEED 1:10 (10%) SLOPE. LEVEL LANDING MUST BE PROVIDED AT RAMPS TOP AT A MINIMUM OF 36-INCHES LONG 	COORD	COORDINATE CORRUGATED PLASTIC PIPE	R
PERMANENT TERMINATION OF SERVICE REQUIRED BY THE PROJECT PLANS AND SPECIFICATIONS REGARDING THE METHODS AND MEANS TO CONSTRUCT SAME. THESE ARE NOT THE PROFESSIONAL OF RECORD'S OR BOHLER RESPONSIBILITY. IN THE EVENT OF ABANDONMENT, THE CONTRACTOR MUST PROVIDE THE UTILITY ENGINEER AND OWNER	 (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%). E. DOORWAY LANDINGS AREAS MUST BE PROVIDED ON THE EXTERIOR SIDE OF ANY DOOR LEADING TO AN ACCESSIBLE PATH 	CY	CUBIC YARD	R
WITH IMMEDIATE WRITTEN NOTIFICATION THAT THE EXISTING UTILITIES AND SERVICES HAVE BEEN TERMINATED AND ABANDONED IN ACCORDANCE WITH JURISDICTIONAL AND UTILITY COMPANY REQUIREMENTS.	E. <u>DORWAY LANDINGS</u> AREAS MOST 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. THIS LANDING AREA MUST BE NO FEWER THAN 60-INCHES (5 FEET) LONG, EXCEPT WHERE OTHERWISE CLEARLY PERMITTED	DEC	DECORATIVE	R
H. ARRANGE FOR AND COORDINATE WITH THE APPLICABLE UTILITY SERVICE PROVIDER(S) REGARDING WORKING "OFF-PEAK" HOURS OR ON WEEKENDS AS NECESSARY OR AS REQUIRED TO MINIMIZE THE IMPACT ON, OF, AND TO THE AFFECTED	BY ACCESSIBLE STANDARDS FOR ALTERNATIVE DOORWAY OPENING CONDITIONS. (SEE ICC/ANSI A117.1-2009 AND OTHER REFERENCES INCORPORATED BY CODE).	DEP	DEPARTMENT OF ENVIRONMENTAL PROTECTION	RE
PARTIES. WORK REQUIRED TO BE PERFORMED "OFF-PEAK" IS TO BE PERFORMED AT NO ADDITIONAL COST TO THE OWNER. I. IN THE EVENT THE CONTRACTOR DISCOVERS ANY HAZARDOUS MATERIAL, THE REMOVAL OF WHICH IS NOT ADDRESSED IN THE PROJECT PLANS AND SPECIFICATIONS OR THE CONTRACT WITH THE OWNER/DEVELOPER, THE CONTRACTOR MUST	F. WHEN THE PROPOSED CONSTRUCTION INVOLVES RECONSTRUCTION, MODIFICATION, REVISION OR EXTENSION OF OR TO 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
IMMEDIATELY CEASE ALL WORK IN THE AREA OF DISCOVERY, AND IMMEDIATELY NOTIFY, IN WRITING AND VERBALLY, THE OWNER, PROFESSIONAL OF RECORD AND BOHLER, THE DISCOVERY OF 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 DRAINAGE MANHOLE	RI
COMPLIANT REMOVAL OF SAME. THE CONTRACTOR MUST NOT PERFORM ANY EARTH MOVEMENT ACTIVITIES, DEMOLITION OR REMOVAL OF FOUNDATION WALLS, FOOTINGS, OR OTHER MATERIALS WITHIN THE LIMITS OF DISTURBANCE, UNLESS SAME IS IN STRICT ACCORDANCE AND	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 BARRIER FREE REGULATIONS AND THE ACCESSIBLE GUIDELINES.	DMH DOM	DOMESTIC	RI W/
CONFORMANCE WITH THE PROJECT PLANS AND SPECIFICATIONS, OR PURSUANT TO THE WRITTEN DIRECTION OF THE OWNER'S STRUCTURAL OR GEOTECHNICAL ENGINEER.	G. THE CONTRACTOR MUST VERIFY ALL OF THE SLOPES OF THE CONTRACTOR'S FORMS PRIOR TO POURING CONCRETE. IF ANY NON-CONFORMANCE EXISTS OR IS OBSERVED OR DISCOVERED, THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE	DOT	DEPARTMENT OF TRANSPORTATION	RE
DEMOLITION ACTIVITIES AND EQUIPMENT MUST NOT USE OR INCLUDE AREAS OUTSIDE THE DEFINED PROJECT LIMIT LINE, WITHOUT SPECIFIC WRITTEN PERMISSION AND AUTHORITY OF AND FROM THE OWNER AND ALL GOVERNMENTAL AGENCIES WITH JURISDICTION.	PROFESSIONAL OF RECORD AND BOHLER, IN WRITING, PRIOR TO POURING CONCRETE. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL COSTS TO REMOVE, REPAIR AND/OR REPLACE NON-CONFORMING CONCRETE AND/OR PAVEMENT SURFACES.	DP	DESIGN POINT	R
THE CONTRACTOR MUST BACKFILL ALL EXCAVATION RESULTING FROM, OR INCIDENTAL TO, DEMOLITION ACTIVITIES. BACKFILL	4. IT IS STRONGLY RECOMMENDED THAT THE CONTRACTOR REVIEW THE INTENDED CONSTRUCTION TO ENSURE SAME IS	D)A/I	DASHED WHITE LINE	1 3
MUST BE ACCOMPLISHED WITH APPROVED BACKFILL MATERIALS AND MUST BE SUFFICIENTLY COMPACTED TO SUPPORT ALL	CONSISTENT WITH THE LOCAL BUILDING CODE PRIOR TO COMMENCING CONSTRUCTION.	DWL	DASHED WHITE LINE	S
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REPORTS, DOCUMENTS AND DETAILS DEPICTING AN OFF-SITE AREA WHERE NO DETAIL IS INCLUDED IS A REFERENCE TO AN AREA,

PURPOSES, ONLY,

GRADING NOTES

(Rev. 1/2023)

STANDAR

(Rev. 1/2023)

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SAN	SANITARY SEWER SOIL EROSION AND SEDIMENT		SANITARY SEWER LATERAL	SL	THIS DRAWING IS INTENDED FOR MUNICIPAL AND/OR AGENCY
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Tc TD	TIME OF CONCENTRATION TRENCH DRAIN	D	STORM MANHOLE		1605 BUFFALO LAKE ROAD SANFORD, NC 27322
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UG UP	UNDERGROUND UTILITY POLE		GAS METER	G	AT A CONTRACT NCBELS P-1132 4130 PARKLAKE AVENUE, SUITE 200 BALEICH NC 27612
JSGS	UNITED STATES GEOLOGICAL SURVEY		TYPICAL END SECTION		RALEIGH, NC 27612 Phone: (919) 578-9000
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2022 HRW REQUIRED UTILITY NOTES

WATER NOTES

THE FIRE MARSHAL'S OFFICE SHALL APPROVE ALL HYDRANT TYPES AND LOCATIONS IN NEW SUBDIVISIONS. HOWEVER, HARNETT REGIONAL WATER (HRW) PREFERS THE CONTRACTORS TO INSTALL ONE OF THE FOLLOWING FIRE HYDRANTS: 1. MUELLER - SUPER CENTURION 250 A-423 MODEL WITH A 5¹/4" MAIN VALVE OPENING THREE WAY (TWO HOSE NOZZLES AND ONE PUMPER NOZZLE): 2. AMERICAN DARLING -MARK B-84-B MODEL WITH A 51/4" MAIN VALVE OPENING THREE WAY (TWO HOSE NOZZLES AND ONE PUMPER NOZZLE): 3. WATEROUS - PACER B-67-250 MODEL WITH A 51/2" MAIN VALVE OPENING THREE WAY (TWO HOSE NOZZLES AND ONE PUMPER NOZZLE) OR APPROVED EQUAL FOR STANDARDIZATION. *ALL FIRE HYDRANTS LISTED ABOVE MUST HAVE "AMERICAN NATIONAL FIRE HOSE CONNECTION SCREW THREADS" NST/NH HOSE THREADS

B. FIRE HYDRANTS ARE INSTALLED AT CERTAIN ELEVATIONS. ANY GRADE CHANGE NEAR ANY FIRE HYDRANT, WHICH IMPEDES ITS OPERATION, SHALL BECOME THE RESPONSIBILITY OF THE UTILITY CONTRACTOR FOR CORRECTION. CORRECTIONS WILL BE MONITORED BY THE HRW UTILITY CONSTRUCTION INSPECTOR AND THE HARNETT COUNTY FIRE MARSHAL.

THE PROFESSIONAL ENGINEER (PE) SHALL OBTAIN AND PROVIDE THE NCDEQ "AUTHORIZATION TO CONSTRUCT" PERMIT TO THE UTILITY CONTRACTOR BEFORE THE CONSTRUCTION OF THE WATER LINE SHALL BEGIN. THE UTILITY CONTRACTOR MUST POST A COPY OF THE NCDEQ AUTHORIZATION TO CONSTRUCT" PERMIT ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY (NCDEQ) ON SITE PRIOR TO THE START OF CONSTRUCTION. THE PERMIT MUST BE MAINTAINED ON SITE THROUGHOUT THE ENTIRE CONSTRUCTION PROCESS OF THE PROPOSED WATER LINES THAT WILL SERVE THIS PROJECT.

THE UTILITY CONTRACTOR SHALL NOTIFY HARNETT REGIONAL WATER (HRW) AND THE PROFESSIONAL ENGINEER (PE) AT LEAST TWO DAYS PRIOR TO CONSTRUCTION COMMENCING. THE UTILITY CONTRACTOR MUST SCHEDULE A PRE-CONSTRUCTION CONFERENCE WITH MR. CHAD EVERETTE. HRW UTILITY CONSTRUCTION INSPECTOR AT LEAST TWO (2) DAYS BEFORE CONSTRUCTION WILL BEGIN AND THE UTILITY CONTRACTOR MUST COORDINATE WITH HRW FOR REGULAR INSPECTION VISITATIONS AND ACCEPTANCE OF THE WATER SYSTEM(S). CONSTRUCTION WORK SHALL BE PERFORMED ONLY DURING THE NORMAL WORKING HOURS OF HRW WHICH IS 8:00 AM - 5:00 PM MONDAY THROUGH FRIDAY. HOLIDAY AND WEEKEND WORK IS NOT PERMITTED BY HRW.

E. THE PROFESSIONAL ENGINEER (PE) SHALL PROVIDE HRW AND THE UTILITY CONTRACTOR WITH A SET OF NCDEQ APPROVED PLANS MARKED "RELEASED FOR CONSTRUCTION" AT LEAST TWO DAYS PRIOR TO CONSTRUCTION COMMENCING. THE REGISTERED LAND SURVEYOR (RLS) SHOULD STAKE OUT ALL LOT CORNERS AND THE GRADE STAKES FOR THE PROPOSED FINISH GRADE FOR EACH STREET BEFORE THE UTILITY CONTRACTOR BEGINS CONSTRUCTION OF THE WATER LINE(S). THE GRADE STAKES SHOULD BE SET WITH A CONSISTENT OFFSET FROM THE STREET CENTERLINE SO AS NOT TO INTERFERE WITH THE STREET GRADING AND UTILITY CONSTRUCTION.

THE UTILITY CONTRACTOR SHALL PROVIDE THE HRW UTILITY CONSTRUCTION INSPECTOR WITH MATERIAL SUBMITTALS AND SHOP DRAWINGS FOR ALL PROJECT MATERIALS PRIOR TO THE CONSTRUCTION OF ANY WATER LINE EXTENSION(S), AND ASSOCIATED WATER SERVICES IN HARNETT COUNTY. THE MATERIALS TO BE USED ON THE PROJECT MUST MEET THE ESTABLISHED SPECIFICATIONS OF HRW AND BE APPROVED BY THE ENGINEER OF RECORD PRIOR TO CONSTRUCTION. ALL SUBSTANDARD MATERIALS OR MATERIALS NOT APPROVED FOR USE IN HARNETT COUNTY FOUND ON THE PROJECT SITE MUST BE REMOVED IMMEDIATELY WHEN NOTIFIED BY THE HRW UTILITY CONSTRUCTION INSPECTOR.

G. THE WATER MAIN(S), FIRE HYDRANTS, SERVICE LINES, METER SETTERS AND ALL ASSOCIATED APPURTENANCES SHALL BE CONSTRUCTED IN STRICT IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS OF THE HARNETT REGIONAL WATER (HRW). THE UTILITY CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE THE NEWLY INSTALLED WATER MAIN(S), WATER SERVICE LINES AND ALL ASSOCIATED METER SETTERS AND METER BOXES FOR OTHER UTILITY COMPANIES AND THEIR CONTRACTORS UNTIL THE NEW WATER MAIN(S) HAVE BEEN APPROVED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY, DIVISION OF ENVIRONMENTAL HEALTH, PUBLIC WATER SUPPLY SECTION (NCDEQ, DEH, PWS) AND ACCEPTED BY HRW.

H. PRIOR TO ACCEPTANCE, ALL SERVICES WILL BE INSPECTED TO ENSURE THAT THEY ARE INSTALLED AT THE PROPER DEPTH. ALL METER BOXES MUST BE FULSH WITH THE GROUND LEVEL AT FINISH GRADE AND THE METER SETTERS MUST BE A MINIMUM OF 8" BELOW THE METER BOX LID. METER SETTERS SHALL BE CENTERED IN THE METER BOX AND SUPPORTED BY BRICK, BLOCK OR STONE.

THE UTILITY CONTRACTOR SHALL PROVIDE THE PROFESSIONAL ENGINEER (PE) AND HRW UTILITY CONSTRUCTION INSPECTOR WITH A SET OF RED LINE DRAWINGS IDENTIFYING THE COMPLETE WATER SYSTEM INSTALLED FOR EACH PROJECT. THE RED LINE DRAWINGS SHOULD DENTIFY THE MATERIALS, PIPE SIZES AND APPROXIMATE DEPTHS OF THE WATER LINES AS WELL AS THE GATE VALVES, FIRE HYDRANTS, METER SETTERS, BLOW OFF ASSEMBLIES AND ALL ASSOCIATED APPURTENANCES FOR ALL WATER LINE(S) CONSTRUCTED IN HARNETT COUNTY. THE RED LINE DRAWINGS SHOULD CLEARLY IDENTIFY ANY DEVIATIONS FROM THE NCDEQ APPROVED PLANS. ALL CHANGE ORDERS MUST BE APPROVED BY HRW AND THE PROFESSIONAL ENGINEER (PE) IN WRITING AND PROPERLY DOCUMENTED IN THE RED LINE FIELD DRAWINGS.

POTABLE WATER MAINS CROSSING OTHER UTILITIES AND NON-POTABLE WATER LINES (SANITARY SEWER, STORM SEWER, RCP, ETC.) SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF TWENTY-FOUR (24") INCHES BETWEEN THE POTABLE WATER MAIN AND ALL OTHER UTILITIES. NCDOT REQUIRES THE NEW WATER MAINS TO BE INSTALLED UNDER THE STORM WATER LINES. THE POTABLE WATER MAIN SHALL BE INSTALLED WITH TWENTY-FOUR (24") INCHES OF VERTICAL SEPARATION AND WITH DUCTILE IRON PIPE WHEN DESIGNED TO BE PLACED UNDER A NONPOTABLE WATER LINE SUCH AS SANITARY SEWER OR STORM SEWER LINES. IF THESE SEPARATIONS CANNOT BE MAINTAINED THEN THE WATER MAIN SHALL BE INSTALLED WITH DUCTILE IRON PIPE. BOTH THE POTABLE WATER MAIN AND THE NON-POTABLE WATER LINE MUST BE CAST IRON OR DUCTILE IRON PIPE (DIP) IF THE STATE MINIMUM SEPARATIONS CANNOT BE MAINTAINED. THE DUCTILE IRON PIPE MUST BE LAID SO THE MECHANICAL JOINTS ARE AT LEAST (10') FEET FROM THE POINT WHERE THE POTABLE WATER MAIN CROSSES THE NON-POTABLE WATER LINE.

K. POTABLE WATER MAINS INSTALLED PARALLEL TO NON-POTABLE WATER LINES (SANITARY SEWER, STORM SEWER, RCP, ETC.) SHALL BE AID TO PROVIDE A MINIMUM HORIZONTAL DISTANCE OF TEN (10') FEET BETWEEN THE POTABLE WATER MAIN AND SANITARY SEWER MAINS, SEWER LATERALS AND SERVICES. THE HORIZONTAL SEPARATION BETWEEN THE POTABLE WATER MAIN AND ANY OTHER UTILITY OR STORM SEWER SHALL NOT BE LESS THAN FIVE (5') FEET. THE POTABLE WATER MAIN MUST BE DUCTILE IRON PIPE IF THIS HORIZONTAL SEPARATION OF TEN (10') FEET CANNOT BE MAINTAINED. THE DUCTILE IRON PIPE SHALL EXTEND AT LEAST TEN (10') FEET BEYOND THE POINT WHERE THE MINIMUM REQUIRED HORIZONTAL SEPARATION OF TEN (10') FEET CAN BE RE-ESTABLISHED.

METER SETTERS SHALL BE INSTALLED IN PAIRS ON EVERY OTHER LOT LINE WHERE POSSIBLE TO LEAVE ADEQUATE SPACE FOR OTHER UTILITIES TO BE INSTALLED AT A LATER TIME. THE METER SETTERS SHALL BE INSTALLED AT LEAST ONE (1') FOOT INSIDE THE RIGHT-OF-WAY AND AT LEAST THREE (3') TO FIVE (5') FEET FROM THE PROPERTY LINE BETWEEN THE LOTS.

1. HRW REQUIRES THAT METER BOXES FOR 3/4" SERVICES SHALL BE 12" WIDE X 17" LONG ABS PLASTIC BOXES AT LEAST 18" IN HEIGHT WITH CAST IRON LIDS/COVERS. METER BOXES FOR 1" SERVICES SHALL BE 17" WIDE X 21" LONG ABS PLASTIC BOXES AT LEAST 18" IN HEIGHT WITH PLASTIC LIDS AND CAST IRON FLIP COVERS IN THE CENTER OF THE LIDS. METER BOXES FOR 2" SERVICES SHALL BE 20" WIDE X 32" LONG ABS PLASTIC BOXES AT LEAST 20" IN HEIGHT WITH PLASTIC LIDS AND CAST IRON FLIP COVERS IN THE CENTER OF THE LIDS

MASTER METERS MUST BE INSTALLED IN CONCRETE VAULTS SIZED FOR THE METER ASSEMBLY AND ASSOCIATED APPURTENANCES SO AS TO PROVIDE AT LEAST EIGHTEEN (18") INCHES OF CLEARANCE BETWEEN THE BOTTOM OF THE CONCRETE VAULT AND THE BOTTOM OF THE METER SETTER. THE MASTER METER MUST BE PROVIDED TEST PORTS IF THE METER IS NOT EQUIPPED WITH TEST PORTS FROM THE MANUFACTURER IN ACCORDANCE WITH THE HRW ESTABLISHED STANDARD SPECIFICATIONS AND DETAILS. DUCTILE IRON PIPE MUST BE USED FOR THE MASTER METER VAULT PIPING AND VALVE VAULT PIPING. THE UTILITY CONTRACTOR MUST PROVIDE SHOP DRAWINGS FOR THE METER VAULTS TO HRW PRIOR TO ORDERING THE CONCRETE VAULTS.

D THE LITELITY CONTRACTOR WILL INSTALL POLYETHYLENE SDR-9 WATER SERVICE LINES THAT CROSS UNDER THE PAVEMENT INSIDE A SCHEDULE 40 PVC CONDUIT TO ALLOW FOR REMOVAL AND REPLACEMENT IN THE FUTURE. TWO (2) INDEPENDENT 3/4" WATER SERVICE LINES MAY BE INSTALLED INSIDE ONE (1) - TWO (2") INCH SCHEDULE 40 PVC CONDUIT OR TWO (2) INDEPENDENT 1" WATER SERVICE LINES MAY BE INSTALLED INSIDE ONE (1) - THREE (3") INCH SCHEDULE 40 PVC CONDUIT. BUT EACH WATER SERVICE SHALL BE TAPPED DIRECTLY TO THE WATER MAIN. SPLIT SERVICES ARE NOT ALLOWED BY HRW. IF SIDEWALKS ARE PROPOSED, THE CONDUIT MUST EXTEND PAST THE SIDEWALK. DRANTS, GATE VALVES, SERVICE LINES, METER SETTERS AND ASSOCIATED APPL RATED FOR 200 PSI AND HYDROSTATICALLY PRESSURE TESTED TO 200 PSI. THE HYDROSTATIC PRESSURE TEST(S) MUST BE WITNESSED BY THE HRW UTILITY CONSTRUCTION INSPECTOR. THE UTILITY CONTRACTOR MUST NOTIFY HRW WHEN THEY ARE READY TO BEGIN FILLING IN LINES AND COORDINATE WITH HARNETT REGIONAL WATER TO WITNESS ALL PRESSURE TESTING.

Q. THE UTILITY CONTRACTOR SHALL CONDUCT A PNEUMATIC PRESSURE TEST USING COMPRESSED AIR OR OTHER INERT GAS ON THE STAIN ESS STEEL TAPPING SLEEVE(S) PRIOR TO MAKING THE TAP ON THE EXISTING WATER MAIN. THIS PNEUMATIC PRESSURE TEST MUST BE WITNESSED BY THE HRW UTILITY CONSTRUCTION INSPECTOR. THE UTILITY CONTRACTOR SHALL USE ROMAC BRAND STAINLESS STEEL TAPPING SUFEVE(S) OR APPROVED FOUND FOR ALL TAPS MADE IN HARNETT COUNTY ALL NEW WATER LINE EXTENSIONS MUST BEGIN WITH A RESILIENT WEDGE TYPE GATE VALVE SIZED EQUAL TO THE DIAMETER OF THE NEW WATER LINE EXTENSION IN ORDER TO PROVIDE A MEANS OF ISOLATION BETWEEN HARNETT REGIONAL WATER'S EXISTING WATER MAINS AND THE NEW WATER LINE EXTENSIONS UNDER CONSTRUCTION.

ALL WATER MAINS WILL BE CONSTRUCTED WITH SDR-21 PVC PIPE OR CLASS 50 DUCTILE IRON PIPE RATED FOR AT LEAST 200 PSI OR GREATER. ALL PIPES MUST BE PROTECTED DURING LOADING, TRANSPORT, UNLOADING, STAGING, AND INSTALLATION. PVC PIPE MUST BE PROTECTED FROM EXTENDED EXPOSURE TO SUNLIGHT PRIOR TO INSTALLATION. ALL WATER MAINS WILL BE FLUSHED AND DISINFECTED IN STRICT ACCORDANCE WITH THE STANDARD SPECIFICATIONS OF THE HARNETT

REGIONAL WATER. ALL WATER SAMPLES COLLECTED FOR BACTERIA TESTING WILL BE COLLECTED BY THE HRW UTILITY CONSTRUCTION INSPECTOR AND TESTED IN THE HRW LABORATORY. ALL FITTINGS LARGER THAN TWO (2") INCHES DIAMETER SHALL BE DUCTILE IRON. HRW REQUIRES THAT MECHANICAL JOINTS BE

ASSEMBLED WITH GRIP RINGS AS "MEGALUG" FITTINGS ARE NOT APPROVED BY HARNETT REGIONAL WATER FOR PIPE SIZES SMALLER THAN TWELVE INCHES (12") DIAMETER. PVC PIPE USED FOR WATER MAINS SHALL BE CONNECTED BY SLIP JOINT OR MECHANICAL JOINT WITH GRIP. RINGS. GLUED PIPE JOINTS ARE NOT ALLOWED ON PVC PIPE USED FOR WATER MAINS IN HARNETT COUNTY.

I. HRW REQUIRES THAT THE UTILITY CONTRACTOR INSTALL TRACER WIRE IN THE TRENCH WITH ALL WATER LINES. THE TRACER WIRE SHALL BE 12 GA. INSULATED, SOLID COPPER CONDUCTOR AND IT SHALL BE TERMINATED AT THE TOP OF THE VALVE BOXES OR MANHOLES. NO SPLICED WIRE CONNECTIONS SHALL BE MADE UNDERGROUND ON TRACER WIRE INSTALLED IN HARNETT COUNTY. THE TRACER WIRE MAY BE SECURED WITH DUCT TAPE TO THE TOP OF THE PIPE BEFORE BACKFILLING.

V. THE UTILITY CONTRACTOR WILL PROVIDE PROFESSIONAL ENGINEER (PE) AND THE HRW UTILITY CONSTRUCTION INSPECTOR WITH A SET OF RED LINE FIELD DRAWINGS TO IDENTIFY THE INSTALLED LOCATIONS OF THE WATER LINE(S) AND ALL ASSOCIATED SERVICES. ALL CHANGE ORDERS MUST BE PRE-APPROVED BY HRW AND THE PROFESSIONAL ENGINEER (PE) IN WRITING AND PROPERLY DOCUMENTED IN THE RED LINE FIELD DRAWINGS.

W. THE UTILITY CONTRACTOR SHALL SPOT DIG TO EXPOSE EACH UTILITY PIPE OR LINE WHICH MAY CONFLICT WITH CONSTRUCTION OF PROPOSED WATER LINE EXTENSIONS WELL IN ADVANCE TO VERIFY LOCATIONS OF THE EXISTING UTILITIES. THE UTILITY CONTRACTOR SHALL PROVIDE BOTH HORIZONTAL AND VERTICAL CLEARANCES TO THE PROFESSIONAL ENGINEER (PE) TO ALLOW THE PE TO ADJUST THE WATER LINE DESIGN IN ORDER TO AVOID CONFLICTS WITH EXISTING UNDERGROUND UTILITIES. THE UTILITY CONTRACTOR SHALL COORDINATE WITH THE UTILITY OWNER AND BE RESPONSIBLE FOR TEMPORARY RELOCATION AND/OR SECURING EXISTING UTILITY POLES, PIPES, WIRES, CABLES, SIGNS AND/OR UTILITIES INCLUDING SERVICES IN ACCORDANCE WITH THE UTILITY OWNER REQUIREMENTS DURING WATER LINE INSTALLATION, GRADING AND STREET CONSTRUCTION.

C. PRIOR TO THE COMMENCEMENT OF ANY WORK WITHIN ESTABLISHED UTILITY EASEMENTS OR NCDOT RIGHT-OF-WAYS THE UTILITY CONTRACTOR IS REQUIRED TO HAVE A SIGNED NCDOT ENCROACHMENT AGREEMENT POSTED ON SITE AND NOTIFY ALL CONCERNED UTILITY COMPANIES IN ACCORDANCE WITH G.S. 87-102. THE UTILITY CONTRACTOR MUST CALL THE NC ONE CALL CENTER AT 811 OR (800) 632-4949 TO VERIFY THE LOCATION OF EXISTING UTILITIES PRIOR TO THE BEGINNING OF CONSTRUCTION. EXISTING UTILITIES SHOWN IN THESE PLANS ARE TAKEN FROM MAPS FURNISHED BY VARIOUS UTILITY COMPANIES AND HAVE NOT BEEN PHYSICALLY LOCATED OR VERIFIED BY THE P.E. (I.E. TFI FPHONF_CABLE. WATER. SEWER. ELECTRICAL POWER, FIBER OPTIC, NATURAL GAS, ETC.), THE UTILITY CONTRACTOR WILL BE RESPONSIBLE TO REPAIR ANY AND ALL DAMAGES TO THE SATISFACTION OF THE RELATED UTILITY COMPANY.

7. THE UTILITY CONTRACTOR SHALL PROVIDE HRW WITH AT LEAST ONE (1) FIRE HYDRANT WRENCH AND ONE (1) BREAK-AWAY FLANGE KIT FOR EVERY SUBDIVISION WITH FIRE HYDRANTS DEVELOPED IN HARNETT COUNTY. THESE ITEMS MUST BE PROVIDED TO HRW BEFORE THE FINAL INSPECTION WILL BE SCHEDULED BY THE HRW UTILITY CONSTRUCTION INSPECTOR. IN ADDITION, THE UTILITY CONTRACTOR SHALL INSTALL A 4" X 4" CONCRETE VALVE MARKER AT THE EDGE OF THE RIGHT-OF-WAY TO IDENTIFY THE LOCATION OF EACH GATE VALVE NSTALLED IN THE NEW WATER SYSTEM WITH THE EXCEPTION OF THE FIRE HYDRANT ISOLATION VALVES. THE CONTRACTOR SHALL MEASURE THE DISTANCE FROM THE CENTER OF THE CONCRETE MARKER TO THE CENTER OF THE VALVE BOX. THIS DISTANCE (IN LINEAR FEET) SHALL BE STAMPED ON THE BRASS PLATE LOCATED ON THE TOP OF THE CONCRETE VALVE MARKER. IN LIEU OF INSTALLING THE CONCRETE VALVE IARKERS, THE UTILITY CONTRACTOR MAY PROVIDE AT LEAST TWO MEASUREMENTS FROM TWO INDEPENDENT PERMANENT ABOVE GROUND STRUCTURES TO THE PROFESSIONAL ENGINEER (PE) IN THE RED LINE DRAWINGS TO IDENTIFY THE VALVE LOCATIONS. THE PROFESSIONAL ENGINEER (PE) MUST INCLUDE THESE MEASUREMENTS IN THE AS-BUILT RECORD DRAWINGS SUBMITTED TO HRW.

THE UTILITY CONTRACTOR WILL BE RESPONSIBLE FOR ANY AND ALL REPAIRS DUE TO LEAKAGE DAMAGE FROM POOR WORKMANSHIP DURING THE ONE (1) YEAR WARRANTY PERIOD ONCE THE WATER SYSTEM IMPROVEMENTS HAVE BEEN ACCEPTED BY HARNETT REGIONAL WATER, HARNETT REGIONAL WATER WILL PROVIDE MAINTENANCE AND REPAIRS WHEN REQUESTED AND BILL THE DEVELOPER AND/OR UTILITY CONTRACTOR IF NECESSARY DUE TO LACK OF RESPONSE WITHIN 48 HOURS OF NOTIFICATION OF WARRANTY WORK. THE UTILITY CONTRACTOR WILL BE RESPONSIBLE FOR ANY AND ALL REPAIRS DUE TO DAMAGES RESULTING FROM FAILURE TO LOCATE THE NEW WATER LINES AND ASSOCIATED APPURTENANCES FOR OTHER UTILITIES AND THEIR CONTRACTORS UNTIL THE WATER LINES HAVE BEEN APPROVED BY NCDEQ AND ACCEPTED BY HRW. THE FINAL INSPECTION OF WATER SYSTEM IMPROVEMENTS CANNOT BE SCHEDULED WITH HRW UNTIL THE STREETS HAVE BEEN PAVED; THE RIGHTS-OF-WAY AND UTILITY EASEMENTS HAVE BEEN SEEDED AND STABILIZED WITH AN ADEQUATE STAND

OF GRASS IN PLACE TO PREVENT EROSION ISSUES ON SITE. AA THE ENGINEER OF RECORD IS RESPONSIBLE TO ENSURE THAT CONSTRUCTION IS, AT ALL TIMES, IN COMPLIANCE WITH ACCEPTED SANITARY ENGINEERING PRACTICES AND APPROVED PLANS AND SPECIFICATIONS. NO FIELD CHANGES TO THE APPROVED PLANS ARE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL BY HRW. A COPY OF EACH ENGINEER'S FIELD REPORT IS TO BE SUBMITTED TO HRW AS EACH SUCH INSPECTION IS MADE ON SYSTEM IMPROVEMENTS OR TESTING IS PERFORMED BY THE CONTRACTOR. WATER AND SEWER NFRASTRUCTURE MUST PASS ALL TESTS REQUIRED BY HRW SPECIFICATIONS AND THOSE OF ALL APPLICABLE REGULATORY AGENCIES. THESE TESTS INCLUDE BUT ARE NOT LIMITED TO: AIR TEST, VACUUM TEST, MANDREL TEST, VISUAL TEST, PRESSURE TEST, BACTERIOLOGICAL TEST, ETC. A HRW INSPECTOR MUST BE PRESENT DURING TESTING AND ALL TEST RESULTS SHALL BE SUBMITTED TO HRW ALL TESTS MUST BE SATISFIED BEFORE THE FINAL INSPECTION WILL BE SCHEDULED WITH THE HRW INSPECTOR. THE ENGINEER OF RECORD MUST REQUEST IN WRITING TO SCHEDULE THE FINAL INSPECTION ONCE ALL CONSTRUCTION IS COMPLETE. THE DEVELOPER'S ENGINEER OF RECORD AND THE HRW UTILITY CONSTRUCTION INSPECTOR SHALL PREPARE A WRITTEN PUNCH LIST OF ANY DEFECTS OR DEFICIENCIES NOTED DURING THE FINAL INSPECTION, SHOULD ANY EXIST, UPON COMPLETION OF THE PUNCH LIST, THE DEVELOPER'S ENGINEER OF RECORD WILL SCHEDULE ANOTHER INSPECTION. IN THE EVENT THE NUMBER OF INSPECTIONS PERFORMED BY THE HRW EXCEEDS TWO, ADDITIONAL FEES MAY BE

A. THE PROFESSIONAL ENGINEER (PE) SHALL OBTAIN AND SUPPLY A COPY OF THE SEWER PERMIT FOR THE CONSTRUCTION AND OPERATION OF THE

SANITARY SEWER NOTES

OF ENVIRONMENTAL QUALITY (NCDEO) ON SITE PRIOR TO THE START OF CONSTRUCTION. THE PERMIT MUST BE MAINTAINED ON SITE DURING THE CONSTRUCTION OF THE SEWER SYSTEM IMPROVEMENTS. THE UTILITY CONTRACTOR SHALL NOTIFY HARNETT REGIONAL WATER (HRW) AND THE PROFESSIONAL ENGINEER (PE) AT LEAST TWO DAYS PRIOR TO CONSTRUCTION COMMENCING. THE UTILITY CONTRACTOR MUST SCHEDULE A PRE-CONSTRUCTION CONFERENCE WITH MR. CHAD EVERETTE. HRW UTILITY CONSTRUCTION INSPECTOR AT LEAST TWO (2) DAYS BEFORE CONSTRUCTION WILL BEGIN AND THE UTILITY CONTRACTOR MUST COORDINATE WITH HRW FOR

THE PROFESSIONAL ENGINEER (PE) SHALL PROVIDE HRW WITH A SET OF NCDEQ APPROVED PLANS MARKED "RELEASED FOR CONSTRUCTION" AT LEAST TWO DAYS PRIOR TO CONSTRUCTION COMMENCING, HRW WILL STAMP THE APPROVED PLANS AS "RELEASED FOR CONSTRUCTION" AND PROVIDE COPIES TO THE UTILITY CONTRACTOR. THE REGISTERED LAND SURVEYOR (RLS) SHALL STAKE OUT ALL LOT CORNERS AND ESTABLISH GRADE STAKES FOR THE PROPOSED FINISH GRADE FOR EACH STREET AND SEWER LINE BEFORE THE UTILITY CONTRACTOR BEGINS CONSTRUCTION OR INSTALLATION OF THE MANHOLES, SANITARY SEWER GRAVITY LINE(S), SEWER LIFT STATIONS AND/OR SANITARY SEWER FORCE MAIN(S), THE GRADE STAKES SHOULD BE SET WITH A CONSISTENT OFFSET FROM THE STREET CENTERLINE SO AS NOT TO INTERFERE WITH THE STREET GRADING OR UTILITY CONSTRUCTION.

THE UTILITY CONTRACTOR SHALL PROVIDE THE HRW UTILITY CONSTRUCTION INSPECTOR WITH MATERIAL SUBMITTALS AND SHOP DRAWINGS FOR ALL IN HARNETT COUNTY. THE MATERIALS TO BE USED ON THE PROJECT MUST MEET THE ESTABLISHED SPECIFICATIONS OF HRW AND BE APPROVED BY THE ENGINEER OF RECORD PRIOR TO CONSTRUCTION, ALL SUBSTANDARD MATERIALS OR MATERIALS NOT APPROVED FOR USE IN HARNETT COUNTY FOUND ON THE PROJECT SITE MUST BE REMOVED IMMEDIATELY WHEN NOTIFIED BY THE HRW UTILITY CONSTRUCTION INSPECTOR. THE SANITARY SEWER LATERAL CONNECTIONS SHOULD BE INSTALLED 90° (PERPENDICULAR) TO THE SANITARY SEWER GRAVITY LINES WITH

NEAREST DOWNSTREAM MANHOLE UP ALONG THE SANITARY SEWER MAIN TO THE IN-LINE WYE FITTING (OR TAPPING SADDLE) AND THEN ANOTHER MEASUREMENT FROM THE IN-LINE WYE FITTING (OR TAPPING SADDLE) TO THE 4" X 4" LONG SWEEP COMBINATION WYE FITTING AT THE BOTTOM OF THE SEWER CLEAN-OUT STACK. THESE FIELD MEASUREMENTS MUST BE PROVIDED TO THE PROFESSIONAL ENGINEER (PE) IN THE RED LINE DRAWINGS FROM THE UTILITY CONTRACTOR FOR PROPER DOCUMENTATION IN THE AS-BUILT RECORD DRAWINGS SUBMITTED TO HRW.

MAIN(S), SANITARY SEWER SERVICE LATERAL(S) AND ALL ASSOCIATED SEWER CLEAN-OUT(S) IN THE PROPOSED SANITARY SEWER SYSTEM FOR OTHER UTILITY COMPANIES AND THEIR CONTRACTORS UNTIL THE NEW SANITARY SEWER LINE(S) AND ASSOCIATED APPURTENANCES HAVE BEEN APPROVED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL OUALITY (NODEO) AND ACCEPTED BY HRW, ALL NEW SANITARY SEWER LINES MUST HAVE AT LEAST THREE (3 FT FEET OF COVER AND EXTEND UNDER ALL EXISTING WATER MAIN AND STORM WATER LINES WITH A LEAST 24" OF VERTICAL CLEARANCE BELOW THE BOTTOM OF THE EXISTING WATER MAIN AND STORM WATER LINES. ALL DUCTILE IRON SEWER PIPING MUST BE 401 EPOXY COATED OR APPROVED EQUAL.

THE SANITARY SEWER GRAVITY LINE(S), MANHOLE(S), SANITARY SEWER SERVICE LATERAL(S) AND ASSOCIATED CLEAN-OUT(S) SHALL BE CONSTRUCTED IN STRICT ACCORDANCE WITH THE STANDARD SPECIFICATIONS OF THE HARNETT REGIONAL WATER. THE SANITARY SEWER GRAVITY LINE(S) MUST PNEUMATICALLY PRESSURE TESTED WITH COMPRESSED AIR AT 5 PSI AND THE SANITARY SEWER FORCE MAIN(S) MUST HYDROSTATICALLY PRESSURE TESTED WITH WATER OR AIR AT 200 PSI, SANITARY SEWER MANHOLES MUST BE VACUUM TESTED TO 10 INCHES OF MERCURY AND CANNOT DROP BELOW 9 INCHES IN 60 SECONDS FOR 4 FT. DIAMETER MANHOLES, 75 SECONDS FOR 5 FT. DIAMETER MANHOLES, THE TEST MUST BE IN ACCORDANCE WITH THE FOLLOWING STANDARDS: FOR DUCTILE IRON PIPELINES TEST IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF ASTM C924. FOR PVC PIPELINES TEST IN ACCORDANCE WITH ASTM F1417-98 AND UBPPA UNI-B-6. VACUUM TESTING SHALL BE PERFORMED IN ACCORDANCE WITH ASTM C1244. THE HRW UTILITY CONSTRUCTION INSPECTOR AND ENGINEER MUST WITNESS ALL TESTS MENTIONED ABOVE.

H. PRIOR TO ACCEPTANCE, ALL SEWER SERVICE LATERALS WILL BE INSPECTED TO ENSURE THAT THEY ARE INSTALLED AT THE PROPER DEPTH. ALL SEWER CLEAN-OUTS MUST BE INSTALLED SO THE 4" X 4" LONG SWEEP COMBINATION WYE IS AT LEAST THREE (3') FEET BUT NO MORE THAN FOUR (4') FEET BELOW THE FINISH GRADE LINE ESS OTHERWISE APPROVED IN WRITING BY HRW. THE SEWER CLEANOLITS SHALL HAVE A FOUR (4") SCHEDULE 40 PVC PIPE STUBBED UP FROM BOTH ENDS OF THE 4" X 4" LONG SWEEP COMBINATION WYE TO BE AT LEAST TWO (2') FEET ABOVE THE FINISH GRADE AND COVER EACH END WITH A FOUR (4") INCH TEMPORARY CAP TO KEEP OUT DIRT, SAND, ROCKS, WATER AND CONSTRUCTION DEBRIS, THE VERTICAL STACK ON EACH CLEAN-OUT MUST BE PROVIDED WITH A CONCRETE DONUT FOR PROTECTION.

ONCE THE SANITARY SEWER GRAVITY LINE(S) HAVE BEEN INSTALLED, PNEUMATICALLY PRESSURE TESTED AND IN PLACE FOR AT LEAST 30 DAYS, THE UTILITY CONTRACTOR MUST CONTACT THE HRW UTILITY CONSTRUCTION INSPECTOR TO WITNESS THE MANDREL TEST ON EACH PVC SANITARY SEWER GRAVITY LINE. THE UTILITY CONTRACTOR WILL NOTIFY HRW TO SCHEDULE THE MANDREL TESTING. THE MANDREL AND PROVING RING MUST BE SUPPLIED BY THE UTILITY CONTRACTOR, CLOSED CIRCUIT VIDEO CAMERA INSPECTIONS (AT THE UTILITY CONTRACTOR'S EXPENSE) MAY BE REQUIRED BY THE HRW UTILITY CONSTRUCTION INSPECTOR IF THE MANDREL AND MIRROR TAMPING TESTING CANNOT BE COMPLETED WITH SATISFACTORY RESULTS. THE SANITARY SEWER LINES SHOULD BE FLUSHED CLEAN USING A SEWER BALL OF THE PROPER DIAMETER BEFORE ANY MANDREL TESTING CAN BE PERFORMED. THE UTILITY CONTRACTOR IS RESPONSIBLE TO REMOVE ALL DIRT. SAND. SILT. GRAVEL, MUD AND DEBRIS FROM THE NEWLY CONSTRUCTED SEWER LINES EXERCISING CARE TO KEEP THE HARNETT REGIONAL WATER'S EXISTING SANITARY SEWER SYSTEMS CLEAN. SANITARY SEWER FORCE MAIN(S) SHALL BE PRESSURE TESTED TO 200 PSI FOR AT LEAST 2 HOURS LIKE WATER LINES.

THE UTILITY CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE THE NEWLY INSTALLED SANITARY SEWER SYSTEM(S) FOR OTHER UTILITY COMPANIES AND THEIR CONTRACTORS UNTIL THE NEW SANITARY SEWER SYSTEM(S) HAVE BEEN APPROVED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY (NCDEQ) AND ACCEPTED BY HRW.

CONNECTIONS SHALL BE MADE UNDERGROUND ON TRACER WIRE INSTALLED IN HARNETT COUNTY. THE TRACER WIRE MAY BE SECURED WITH DUCT TAPE TO THE TOP OF THE PIPE BEFORE BACKFILLING. THE TRACER WIRE IS NOT REQUIRED FOR THE GRAVITY SEWER LINE(S) BETWEEN MANHOLES. DRAWINGS IDENTIFYING THE COMPLETE SEWER SYSTEM INSTALLED FOR EACH PROJECT. THE RED LINE DRAWINGS SHOULD IDENTIFY THE MATERIALS, PIPE SIZES AND APPROXIMATE DEPTHS OF THE SEWER LINES AS WELL AS THE INSTALLED LOCATIONS OF THE MANHOLE(S), SANITARY SEWER GRAVITY LINE(S), SANITARY SEWER SERVICE LATERALS, CLEAN-OUTS, SEWER LIFT STATION(S) AND ASSOCIATED FORCE MAIN(S). THE RED LINE DRAWINGS SHOULD CLEARLY IDENTIFY ANY DEVIATIONS FROM THE NCDEQ APPROVED PLANS, ALL CHANGE ORDERS MUST BE APPROVED BY HRW AND THE PROFESSIONAL ENGINEER (PE) IN WRITING AND PROPERLY DOCUMENTED IN THE RED LINE FIELD DRAWINGS.

PRIOR TO THE COMMENCEMENT OF ANY WORK WITHIN ESTABLISHED UTILITY EASEMENTS OR NCDOT RIGHT-OF-WAYS THE UTILITY CONTRACTOR IS REQUIRED TO NOTIFY ALL CONCERNED UTILITY COMPANIES IN ACCORDANCE WITH G.S. 87-102. THE UTILITY CONTRACTOR MUST CALL THE NC ONE CALL CENTER AT 811 OR (800) 632-4949 TO VERIFY THE LOCATION OF EXISTING UTILITIES PRIOR TO THE BEGINNING OF CONSTRUCTION. EXISTING UTILITIES SHOWN IN THESE PLANS ARE TAKEN FROM MAPS FURNISHED BY VARIOUS UTILITY COMPANIES AND HAVE NOT BEEN PHYSICALLY LOCATED BY THE P.E. (I.E. TELEPHONE, CABLE, WATER, SEWER, ELECTRICAL POWER, FIBER OPTIC, NATURAL GAS, ETC.). THE UTILITY CONTRACTOR SHALL SPOT DIG TO EXPOSE EACH EXISTING UTILITY PIPE OR LINE WHICH MAY CONFLICT WITH CONSTRUCTION OF

PROVIDE BOTH HORIZONTAL AND VERTICAL CLEARANCES TO THE PROFESSIONAL ENGINEER (PE) TO ALLOW THE PE TO ADJUST THE SANITARY SEWER LINE DESIGN IN ORDER TO AVOID CONFLICTS WITH EXISTING UNDERGROUND UTILITIES. THE UTILITY CONTRACTOR SHALL COORDINATE WITH THE UTILITY OWNER AND BE RESPONSIBLE FOR TEMPORARY RELOCATION OF EXISTING UTILITIES AND/OR SECURING EXISTING UTILITY POLES, PIPES, WIRES, CABLES, SIGNS AND/OR UTILITIES INCLUDING SERVICES IN ACCORDANCE WITH THE UTILITY OWNER'S REQUIREMENTS DURING SANITARY SEWER LINE INSTALLATION, GRADING AND STREET CONSTRUCTION.

WHEN MAKING A TAP ON AN EXISTING SEWER FORCE MAIN, THE UTILITY CONTRACTOR MUST HAVE A PERMIT FROM THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY (NCDEQ) PRIOR TO BEGIN THE TAP WORK. THE UTILITY CONTRACTOR SHALL CONDUCT A PNEUMATIC PRESSURE TEST USING COMPRESSED AIR OR OTHER INERT GAS ON THE STAINLESS STEEL TAPPING SLEEVE AND GATE VALVE PRIOR TO MAKING THE TAP ON AN EXISTING SANITARY SEWER FORCE MAIN. THIS PNEUMATIC PRESSURE TEST MUST BE WITNESSED BY THE HRW UTILITY CONSTRUCTION INSPECTOR. THE UTILITY CONTRACTOR SHALL USE ROMAC BRAND STAINLESS STEEL TAPPING SLEEVE(S) OR APPROVED EQUAL FOR ALL TAPS MADE ON SANITARY SEWER FORCE MAINS IN HARNETT COUNTY, THE UTILITY CONTRACTOR SHALL USE ROMAC BRAND STYLE "CB" SEWER SADDLES WITH STAINLESS STEEL BANDS OR APPROVED EQUAL FOR ALL TAPS MADE ON EXISTING SANITARY SEWER GRAVITY LINES IN HARNETT COUNTY. THE UTILITY CONTRACTOR SHALL PROVIDE A GREASE TRAP FOR EACH SANITARY SEWER SERVICE LATERAL THAT WILL BE CONNECTED TO A

RESTAURANT, FOOD PROCESSING FACILITY AND ANY OTHER COMMERCIAL OR INDUSTRIAL FACILITY AS REQUIRED BY THE HARNETT COUNTY FAT, OIL & GREASE ORDINANCE. THE GREASE TRAP MUST BE RATED FOR A MINIMUM CAPACITY OF AT LEAST 1,000 GALLONS UNLESS OTHERWISE APPROVED IN WRITING BY THE HRW PRE-TREATMENT COORDINATOR. GARBAGE DISPOSALS SHOULD NOT BE INSTALLED IN HOMES AND BUSINESSES THAT DISCHARGE WASTEWATER TO THE HARNETT REGIONAL WATER'S SANITARY SEWER SYSTEM AS THEY ARE NOT APPROVED BY HRW. EACH SEWER LIFT STATION MUST BE PROVIDED WITH THREE PHASE POWER (AT LEAST 480 VOLTS) AND CONSTRUCTED TO MEET THE MINIMUM

DETAILS. IF THREE PHASE POWER IS NOT AVAILABLE FROM THE POWER COMPANY OTHER ARRANGEMENTS MUST BE APPROVED BY HRW ENGINEERING PRIOR TO THE START OF CONSTRUCTION WHERE A NEW SANITARY SEWER FORCE MAIN IS CONNECTED TO AN EXISTING MANHOLE IN THE HARNETT REGIONAL WATER SEWER COLLECTIONS

CORROSION, EROSION AND DETERIORATION FROM THE RELEASE OF SEWER GASES SUCH AS METHANE AND HYDROGEN SULFIDE. THE SEWER LIFT STATION DESIGN AND ASSOCIATED FOUNDMENT MUST MEET OR EXCEED THE MINIMUM REQUIREMENTS FOR HARNETT COUNTY SEWER LIFT STATIONS FACH SANITARY SEWER LIFT STATION MUST BE CONSTRUCTED WITH AN ALL-WEATHER ACCESS ROAD THAT IS AT LEAST 20 FEET WIDE. THE LIFT STATION SITE MUST BE COVERED WITH WEED BLOCKING MATERIAL AND AT LEAST SIX (6") INCHES OF ABC STONE (CRUSH AND RUN).

ONCE A SEWER LIFT STATION HAS BEEN INSTALLED, THE UTILITY CONTRACTOR IS RESPONSIBLE TO SCHEDULE A DRAW DOWN TEST WITH HRW ENGINEERING AND COLLECTIONS STAFF. THE PROFESSIONAL ENGINEER (PE). THE ELECTRICIAN. THE ORIGINAL EQUIPMENT MANUFACTURERS (OEM) REPRESENTATIVES IFOR BOTH THE PUMPS AND THE GENERATORI. THIS DRAW DOWN TEST MUST BE COMPLETED WITH POWER SUPPLIED FROM THE ELECTRICAL UTILITY COMPANY AND WITH POWER SUPPLIED BY THE EMERGENCY GENERATOR WITH SATISFACTORY RESULTS BEFORE FINAL INSPECTIONS ARE CONDUCTED BY THE HRW UTILITY CONSTRUCTION INSPECTOR.

ONCE THE UTILITY CONTRACTOR COMPLETES THE INSTALLATION OF A SEWER LIFT STATION, THE PROFESSIONAL ENGINEER (PE) MUST SUBMIT THE SEWER PERMIT CERTIFICATION AND AS-BUILT RECORD DRAWINGS TO THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY (NCDEQ) AND HRW FOR FINAL APPROVAL. THE UTILITY CONTRACTOR MUST SUPPLY HRW ENGINEERING STAFF WITH THREE ORIGINAL OPERATION & MAINTENANCE (0&M) MANUALS ALONG WITH THE ASSOCIATED PUMP CURVES AND ELECTRICAL SCHEMATICS FOR THE ASSOCIATED SEWER LIFT STATION EQUIPMENT INCLUDING ALL WARRANTY INFORMATION AND DOCUMENTATION.

SYSTEM CONTROL AND DATA ACQUISITION (SCADA) FEES BEFORE THE SCADA SYSTEM WILL BE INSTALLED AT THE NEW SEWER LIFT STATION. THE SCADA SYSTEM MUST BE INSTALLED AND OPERATIONAL BEFORE THE UTILITIES MAY BE ACCEPTED BY HRW AND PLACED INTO OPERATION.

SANITARY SEWER SYSTEM. THE EQUIPMENT AND DEVICES MAY INCLUDE BUT NOT LIMITED TO LAMPING WITH MIRRORS, MANDRELS, SEWER BALLS, PLUGS, AIR COMPRESSORS AND ASSOCIATED COMPRESSED AIR LINES. IF THE HRW UTILITY CONSTRUCTION INSPECTOR DEEMS THAT A CLOSED CIRCUIT VIDEO CAMERA INSPECTION OF THE NEWLY CONSTRUCTED SEWER SYSTEM IS NECESSARY, THEN ALL COSTS FOR THE CLOSED CIRCUIT CAMERA INSPECTION WILL BE THE RESPONSIBILITY OF THE UTILITY CONTRACTOR. ALL CLOSED CIRCUIT VIDEO CAMERA INSPECTIONS MUST BE RECORDED ON VHS TAPES THAT WILL RELEASED TO HRW FOR RECORD KEEPING, REVIEW AND APPROVAL OF THE SEWER SYSTEM.

ANY USE OF SEWER PLUGS TO TEMPORARILY BLOCK HARNETT REGIONAL WATER'S EXISTING SANITARY SEWER LINES MUST BE COORDINATED WITH THE HRW COLLECTIONS SUPERVISOR AT LEAST TWO (2) DAYS IN ADVANCE OF INSTALLING THE PLUGS. THE SEWER PLUGS MUST BE REMOVED AS SOON AS POSSIBLE ONCE THE NEW SANITARY SEWER LINES HAVE BEEN INSPECTED, PRESSURE TESTED, MANDREL TESTED, APPROVED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY (NCDEQ) AND ACCEPTED BY HRW TO ALLOW THE SEWER TO FLOW AS DESIGNED IN HARNETT REGIONAL WATER'S EXISTING SANITARY SEWER LINES OR WHEN SO ORDERED BY THE HRW COLLECTIONS SUPERVISOR TO LIMIT INTERRUPTIONS TO THE NORMAL FLOW OF THE SANITARY SEWER COLLECTION SYSTEM(S). THE UTILITY CONTRACTOR MUST PROVIDE THE PUMPS HOSES AND NECESSARY CONNECTORS FOR A TEMPORARY PUMP AROUND SETUP IF REQUIRED BY THE HRW COLLECTIONS SUPERVISOR. MR. RANDOLPH CLEGG, HRW COLLECTIONS SUPERVISOR MAY BE CONTACTED BETWEEN 8:00 AM AND 5:00 PM MONDAY THROUGH FRIDAY AT (910) 893-7575 EXTENSION 3241.

THE UTILITY CONTRACTOR WILL BE RESPONSIBLE FOR ANY AND ALL REPAIRS DUE TO LEAKAGE OR DAMAGE RESULTING FROM POOR WORKMANSHIP DURING THE ONE (1) YEAR WARRANTY PERIOD ONCE THE SEWER SYSTEM IMPROVEMENTS HAVE BEEN APPROVED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY (NCDEQ) AND ACCEPTED BY HRW. THE UTILITY CONTRACTOR WILL BE RESPONSIBLE FOR ANY AND ALL REPAIRS DUE TO DAMAGES RESULTING FROM FAILURE TO LOCATE THE NEW SANITARY SEWER LINES AND ASSOCIATED APPURTENANCES FOR OTHER UTILITIES AND THEIR CONTRACTORS UNTIL THE SANITARY SEWER LINES HAVE BEEN APPROVED BY NCDEQ AND ACCEPTED BY HRW. HRW WILL PROVIDE MAINTENANCE AND WARRANTY REPAIRS IF NECESSARY DUE TO LACK OF RESPONSE WITHIN 48 HOURS OF NOTIFICATION OF WARRANTY WORK. HRW WILL INVOICE THE DEVELOPER AND/OR UTILITY CONTRACTOR FOR MATERIALS AND LABOR IN SUCH CASES.

SURVEYOR (RLS) MUST PROVIDE THE HRW RIGHT-OF-WAY AGENT WITH AN OFFICIAL COPY OF THE RECORDED PLAT AND LEGAL DESCRIPTION OF THE SAID EASEMENT AS RECORDED WITH THE HARNETT COUNTY REGISTER OF DEEDS. THE RECORDED DOCUMENTS MUST BE PROVIDED TO THE HRW RIGHT-OF-WAY AGENT BEFORE THE UTILITY IMPROVEMENTS WITHIN THE SAID EASEMENT CAN BE PLACED INTO OPERATION. ANY AND ALL EASEMENTS THAT MUST BE OBTAINED FROM ADJOINING PROPERTY OWNERS MUST BE PROVIDED TO HRW BY THE DEVELOPER AT NO COST TO HARNETT COUNTY. THE FINAL INSPECTION OF ALL SANITARY SEWER SYSTEM IMPROVEMENTS CANNOT BE SCHEDULED WITH HRW UNTIL THE STREETS HAVE BEEN PAVED: THE RIGHTS-OF-WAY AND UTILITY EASEMENTS HAVE BEEN SEEDED AND STABILIZED WITH AN ADEQUATE STAND OF GRASS IN PLACE TO PREVENT EROSION ISSUES ON SITE.

AA. THE ENGINEER OF RECORD IS RESPONSIBLE TO ENSURE THAT CONSTRUCTION IS. AT ALL TIMES. IN COMPLIANCE WITH ACCEPTED SANITARY ENGINEERING PRACTICES AND APPROVED PLANS AND SPECIFICATIONS. NO FIELD CHANGES TO THE APPROVED PLANS ARE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL BY HRW. A COPY OF EACH ENGINEER'S FIELD REPORT IS TO BE SUBMITTED TO HRW AS EACH SUCH INSPECTION IS MADE ON SYSTEM IMPROVEMENTS OR TESTING IS PERFORMED BY THE CONTRACTOR. WATER AND SEWER INFRASTRUCTURE MUST PASS ALL TESTS REQUIRED BY HRW SPECIFICATIONS AND THOSE OF ALL APPLICABLE REGULATORY AGENCIES. THESE TESTS INCLUDE. BUT ARE NOT LIMITED TO: AIR TEST. VACUUM TEST. OF RECORD MUST REQUEST IN WRITING TO SCHEDULE THE FINAL INSPECTION ONCE ALL CONSTRUCTION IS COMPLETE. THE DEVELOPER'S ENGINEER OF RECORD AND THE HRW UTILITY CONSTRUCTION INSPECTOR SHALL PREPARE A WRITTEN PUNCH LIST OF ANY DEFECTS OR DEFICIENCIES NOTED DURING THE FINAL INSPECTION, SHOULD ANY EXIST, UPON COMPLETION OF THE PLINCH LIST, THE DEVELOPER'S ENGINEER OF RECORD WILL SCHEDULE ANOTHER

ASSESSED TO THE DEVELOPER.

WASTEWATER COLLECTION SYSTEM TO THE UTILITY CONTRACTOR BEFORE THE CONSTRUCTION OF THE SANITARY SEWER LINE. SEWER LIFT STATION AND ASSOCIATED FORCE MAIN SHALL BEGIN, THE UTILITY CONTRACTOR MUST POST A COPY OF THE SEWER PERMIT ISSUED BY THE NORTH CAROLINA DEPARTMENT

REGULAR INSPECTION VISITATIONS AND ACCEPTANCE OF THE WASTEWATER SYSTEM(S). CONSTRUCTION WORK SHALL BE PERFORMED ONLY DURING THE NORMAL WORKING HOURS OF HRW WHICH IS 8:00 AM - 5:00 PM MONDAY THROUGH FRIDAY, HOLIDAY AND WEEKEND WORK IS NOT PERMITTED BY HRW.

PROJECT MATERIALS PRIOR TO THE CONSTRUCTION OF ANY GRAVITY SEWER LINE(S), MANHOLE(S), SEWER LIFT STATION(S) AND ASSOCIATED FORCE MAIN(S)

SCHEDULE 40 PVC PIPE. HRW REQUIRES THE UTILITY CONTRACTOR TO PROVIDE THE PROFESSIONAL ENGINEER (PE) WITH ACCURATE MEASUREMENTS FOR LOCATING SANITARY SEWER SERVICE LATERAL AND ASSOCIATED EACH SANITARY SEWER CLEAN-OUT. THESE MEASUREMENTS SHOULD BE TAKEN FROM THE

THE UTILITY CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE THE NEWLY INSTALLED SANITARY SEWER GRAVITY LINE(S), SANITARY SEWER FORCE

HRW REQUIRES THAT THE UTILITY CONTRACTOR INSTALL TRACER WIRE IN THE TRENCH WITH ALL SANITARY SEWER FORCE MAINS. THE TRACER WIRE SHALL BE 12 GA. INSULATED, SOLID COPPER CONDUCTOR AND IT SHALL BE TERMINATED AT THE TOP OF THE VALVE BOXES OR MANHOLES. NO SPLICED WIRE THE UTILITY CONTRACTOR SHALL PROVIDE THE PROFESSIONAL ENGINEER (PE) AND HRW UTILITY CONSTRUCTION INSPECTOR WITH A SET OF RED LINE

PROPOSED SANITARY SEWER LINE EXTENSIONS WELL IN ADVANCE TO VERIFY LOCATIONS OF THE EXISTING UTILITIES. THE UTILITY CONTRACTOR SHALL

REQUIREMENTS OF THE LATEST VERSION OF THE NATIONAL ELECTRICAL CODE (NEC) AND HARNETT REGIONAL WATER STANDARD SPECIFICATIONS AND

SYSTEM, THE UTILITY CONTRACTOR MUST PROVIDE A PROTECTIVE COATING (EPOXY) FOR THE INTERIOR SURFACES OF THE MANHOLE TO PROTECT IT AGAINST

ONCE THE UTILITY CONTRACTOR COMPLETES THE INSTALLATION OF A SEWER LIFT STATION, THE DEVELOPER MUST PAY HRW THE ESTABLISHED

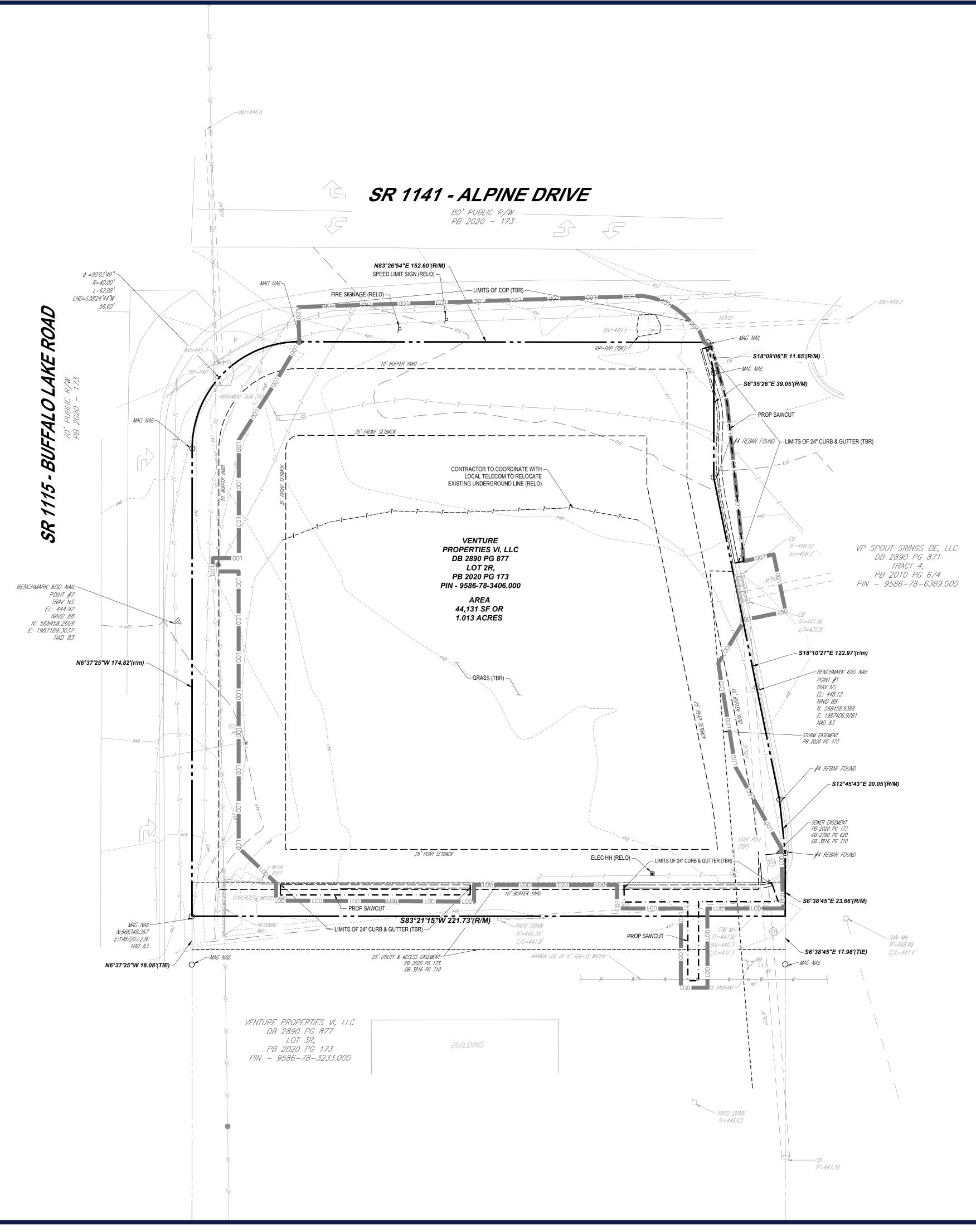
HRW REQUIRES THE UTILITY CONTRACTOR TO PROVIDE ALL NECESSARY EQUIPMENT AND DEVICES FOR THE TESTING AND INSPECTION OF THE

IN DEVELOPMENTS AND PROJECTS THAT REQUIRE UTILITY EASEMENTS TO BE ESTABLISHED FOR FUTURE HRW RIGHT-OF-WAY, THE REGISTERED LAND

MANDREL TEST, VISUAL TEST, PRESSURE TEST, BACTERIOLOGICAL TEST, ETC, A HRW INSPECTOR MUST BE PRESENT DURING TESTING AND ALL TEST RESULTS SHALL BE SUBMITTED TO HRW. ALL TESTS MUST BE SATISFIED BEFORE THE FINAL INSPECTION WILL BE SCHEDULED WITH THE HRW INSPECTOR. THE ENGINEER INSPECTION. IN THE EVENT THE NUMBER OF INSPECTIONS PERFORMED BY THE HRW EXCEEDS TWO, ADDITIONAL FEES MAY BE ASSESSED TO THE DEVELOPER

	BOHLER ENGINEERING NC. PLLC	SITE CIVIL AND CONSULTING ENGINEERING LAND SURVEYING PROGRAM MANAGEMENT LANDSCAPE ARCHITECTURE SUSTAINABLE DESIGN PERMITTING SERVICES TRANSPORTATION 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 SEALED PLANS SHALL BE UTILIZED FOR CONSTRUCTION PURPOSES © BOHLER			
		REVISIONS	DRAWN BY			
REV	DATE 02/06/25	COMMENT COUNTY COMMENTS	CHECKED BY			
-	02/06/25		TH			
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	PE	RMIT SET				
	AND APPROVA	TENDED FOR MUNICIPAL AND/OR A AL. IT IS NOT INTENDED AS A CONS UNLESS INDICATED OTHERWISE.				
DRA	JECT No.: WN BY: CKED BY: E:	NCB24001	3.00-1A JDS TH 16/2024 CNDS			
	DO DO DO 1605 BU SAN HAI	PROPOSED EVELOPMENT IFFALO LAKE ROAD IFORD, NC 27322 RNETT COUNTY				
BOHLER ENGINEERING NC, PLLC NGBELS P-1132 4130 PARKLAKE AVENUE, SUITE 200 RALEIGH, NC 27612 Phone: (919) 578-9000 NC@BohlerEng.com						
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413	BOHLER EN O PARKL RAL Phon NC@	IGINEERING NC, PLLC NCBELS P-1132 AKE AVENUE, SUIT LEIGH, NC 27612 e: (919) 578-9000	E 200			





GENERAL DEMOLITION NOTES:

1. THIS PLAN REFERENCES A SURVEY BY:

BL COMPANIES, INC. 3420 TORINGDON WAY, SUITE 210 CHARLOTTE, NC 28277 DATED: 05/10/24

- 2. CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970, (29 U.S.C. 651 et seq.), AS AMENDED AND ANY MODIFICATIONS, AMENDMENTS OR REVISIONS TO SAME.
- 3. BOHLER ENGINEERING HAS NO CONTRACTUAL, LEGAL, OR OTHER RESPONSIBILITY FOR JOB SITE SAFETY OR JOB SITE SUPERVISION, OR ANYTHING RELATED TO SAME.
- 4. THE DEMOLITION PLAN IS INTENDED TO PROVIDE GENERAL INFORMATION, ONLY, REGARDING ITEMS TO BE DEMOLISHED AND/OR REMOVED. THE CONTRACTOR MUST ALSO REVIEW THE OTHER SITE PLAN DRAWINGS AND INCLUDE IN DEMOLITION ACTIVITIES ALL INCIDENTAL WORK NECESSARY FOR THE CONSTRUCTION OF THE NEW SITE IMPROVEMENTS.
- 5. CONTRACTOR MUST RAISE ANY QUESTIONS CONCERNING THE ACCURACY OR INTENT OF THESE PLANS OR SPECIFICATIONS, CONCERNS REGARDING THE APPLICABLE SAFETY STANDARDS, OR THE SAFETY OF THE CONTRACTOR OR THIRD PARTIES IN PERFORMING THE WORK ON THIS PROJECT, WITH BOHLER ENGINEERING, IN WRITING, AND RESPONDED TO BY BOHLER, IN WRITING, PRIOR TO THE INITIATION OF ANY SITE ACTIVITY AND ANY DEMOLITION ACTIVITY, ALL DEMOLITION ACTIVITIES MUST BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THESE PLANS AND SPECIFICATIONS AND ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS, RULES, REQUIREMENTS, STATUTES, ORDINANCES AND CODES.
- 6. PRIOR TO STARTING ANY DEMOLITION, CONTRACTOR IS RESPONSIBLE FOR/TO:
- OBTAINING ALL REQUIRED PERMITS AND MAINTAINING THE SAME ON SITE FOR REVIEW BY THE ENGINEER AND OTHER PUBLIC AGENCIES HAVING JURISDICTION THROUGHOUT THE DURATION OF THE PROJECT, SITE WORK AND DEMOLITION WORK, INCLUDING DEMOLITION OF THE EXISTING BUILDING.
- 7. THE LOCATION OF EXISTING UNDERGROUND UTILITIES AS INDICATED ON THE PLAN IS APPROXIMATE, FIELD LOCATE ALL UNDERGROUND EXISTING UTILITIES LOCATED IN THE AREA OF WORK PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, CALL "NC 811" PRIOR TO CONSTRUCTION FOR ASSISTANCE IN LOCATING EXISTING UNDERGROUND UTILITIES. SUBSURFACE FEATURES ARE SHOWN IN AN APPROXIMATE LOCATION. CONTRACTOR IS RESPONSIBLE FOR SUBSURFACE UTILITY EXPLORATION TO DETERMINE UNDERGROUND UTILITY LOCATIONS AND DEPTH.
- 8. ALL SIDEWALKS AND CURB AND GUTTER SECTIONS SHALL BE REMOVED BY SAWCUTTING THE NEAREST CONTROL JOINT AWAY FROM THE LOCATION DESIGNATED FOR REMOVAL ON THE PLANS. EXISTING PAVEMENT SHALL BE SAWCUT IN ALL LOCATIONS WHERE ABUTTING NEW PAVEMENT OR CONCRETE.
- 9. COORDINATE ALL UTILITY REMOVAL, RELOCATION, & ABANDONMENT WITH THE APPROPRIATE UTILITY SERVICE PROVIDER. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL UTILITY SERVICES TO ADJACENT PROPERTIES DURING ALL PHASES OF CONSTRUCTION.

DEMOLITION

ABBREVIATIONS

ONLY

SCALE: 1" = 20'

10 5 0

DESCRIPTION

TO BE ABANDONED

TO BE REMOVED

TO BE VACATED

TO BE RELOCATED

TO REMAIN

TO BE PROTECTED

ABBREVIATION

(TBA)

(TBR)

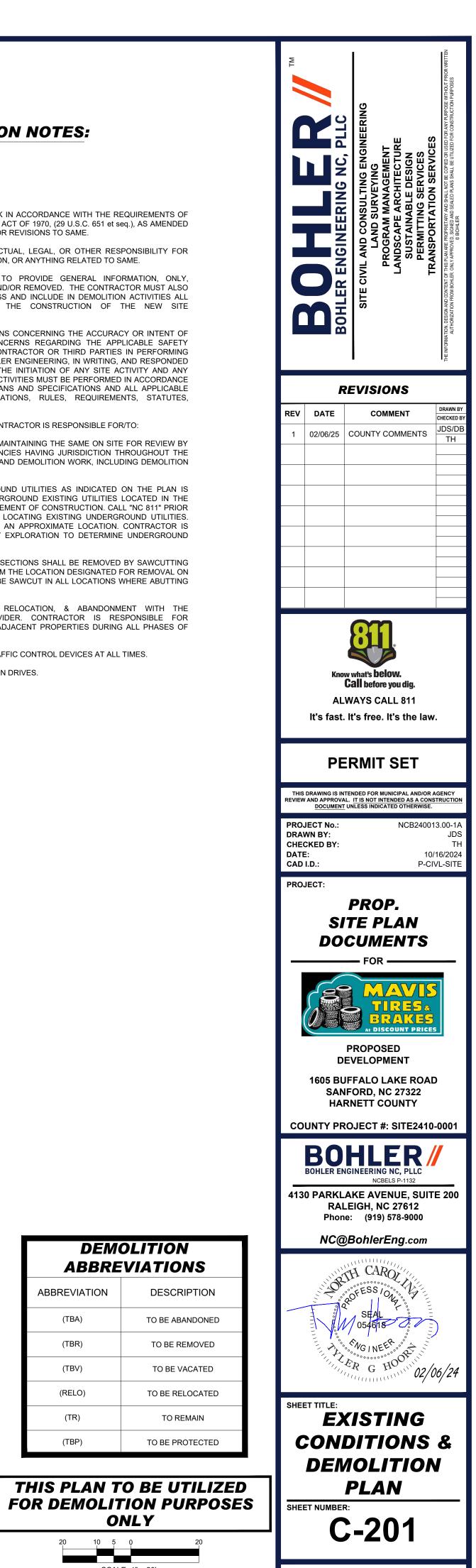
(TBV)

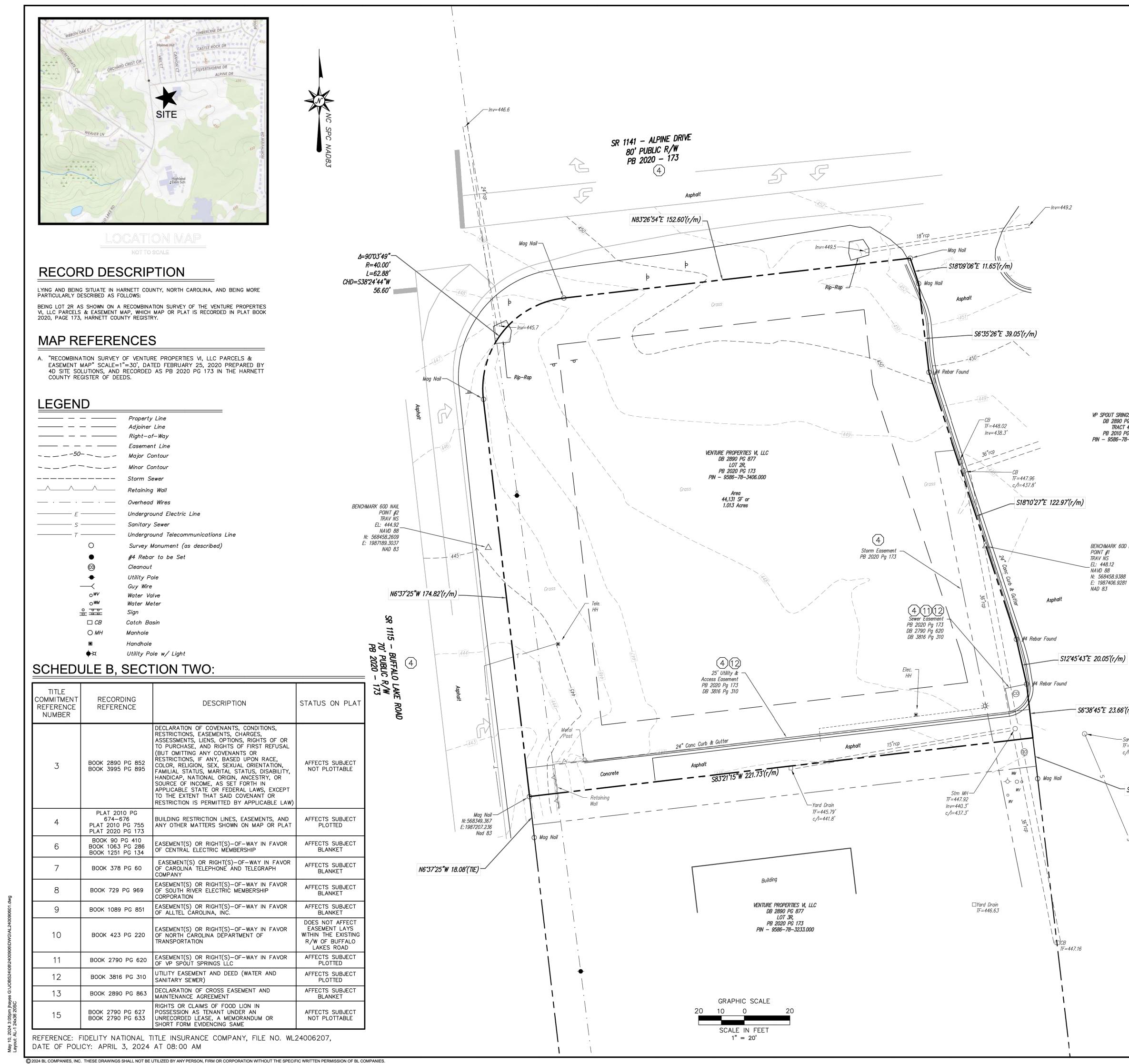
(RELO)

(TR)

(TBP)

- 10. CONTRACTOR TO SUPPLY SUFFICIENT TRAFFIC CONTROL DEVICES AT ALL TIMES.
- 11. TRAFFIC PLATES MUST BE USED OVER MAIN DRIVES.





GENERAL NOTES

3710958600J, EFFECTIVE DATE OCTOBER 3, 2006.

MAY 2024.

- 1. NORTH ARROW AND BEARINGS BASED ON NORTH CAROLINA STATE PLANE COORDINATE SYSTEM (US.FT NAD1983) AND REFERENCED TO THE NCVRS NETWORK BY GPS READINGS BY BL COMPANIES IN MAY 2024.
- 2. ELEVATIONS AND CONTOURS ARE BASED ON NAVD 1988 (GEOID 18) AND REFERENCED TO THE NCVRS NETWORK BY GPS READINGS BY BL COMPANIES IN
- 3. THE PARCEL HEREON SHOWN IS DETERMINED TO BE ZONE 'X' ACCORDING TO THE FLOOD INSURANCE RATE MAP FOR HARNETT COUNTY, COMMUNITY PANEL NO.
- 4. THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED THOUGH THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE CONTRACTOR SHALL CONFIRM THE LOCATION OF ALL UTILITIES PRIOR TO THE COMMENCEMENT OF EXCAVATION. UTILITY LOCATION PROVIDED BY SWEETWATER UTILITY LOCATION SERVICES.
- 5. REFERENCE IS MADE TO THE FOLLOWING DEEDS AND PLATS: DB 2890 PG 871; DB 2890 PG 877; PB 2020 PG 173; PB 2010 PG 674;
- 6. THERE WAS NO EVIDENCE OF CHANGES IN STREET RIGHT OF WAY LINES, RECENT STREET OR SIDEWALK CONSTRUCTION OR REPAIRS OBSERVED IN THE PROCESS OF CONDUCTING THE FIELDWORK.
- 7. THERE WAS NO EVIDENCE OF SOLID WASTE DUMP, SUMP OR SANITARY LANDFILLS OBSERVED IN THE PROCESS OF CONDUCTING THE FIELDWORK ON THE SUBJECT PROPERTY
- 8. THERE WERE NO CEMETERIES OBSERVED IN THE PROCESS OF CONDUCTING FIELDWORK ON THE SUBJECT PROPERTY.
- THERE ARE NO APPARENT ENCROACHMENTS ONTO ADJOINING PROPERTIES, STREETS, OR EASEMENT AREAS BY ANY BUILDINGS, STRUCTURES OR OTHER IMPROVEMENTS, AND NO ENCROACHMENTS ONTO THE PROPERTY BY BUILDINGS, STRUCTURES OR OTHER IMPROVEMENTS SITUATED ON ADJOINING PROPERTIES.
- 10. THE SURVEYOR WAS SUPPLIED NO ZONING REPORT OR LETTER FOR THE SUBJECT PARCEL SHOWN HEREON.
- 11. PARKING SPACE INFORMATION: NO SPACES OBSERVED ON THE SUBJECT PROPERTY AT THE TIME OF SURVEY.
- 12. THERE IS DIRECT ACCESS TO THE SUBJECT PARCEL VIA ACCESS EASEMENT FROM ALPINE DRIVE PUBLIC RIGHT OF WAY.
- 13. TO THE SURVEYOR'S KNOWLEDGE THERE ARE NO PLOTTABLE OFFSITE (I.E., APPURTENANT) EASEMENTS OR SERVITUDES DISCLOSED IN DOCUMENTS PROVIDED TO OR OBTAINED BY THE SURVEYOR.
- 14. THIS PROPERTY IS IN THE HARNETT COUNTY ZONING JURISDICTION, ZONING COMM. SETBACKS: FRONT: 35;
- SIDE: 0'; 15' FROM AN ACCESS EASEMENT OR PRIVATE STREET CORNER SIDE: 20' REAR: 25'
- 15. AREA BY COORDINATE GEOMETRY.
- 16. NO GAPS, GORES, OR HIATUSES WERE OBSERVED IN THE PROPERTY.
- 17. NO EVIDENCE OF RECENT EARTH MOVING WORK, BUILDING CONSTRUCTION, OR BUILDING ADDITIONS OBSERVED IN THE PROCESS OF CONDUCTING THE FIELDWORK

VP SPOUT SRINGS DE, LLC DB 2890 PG 871 TRACT 4, PB 2010 PG 674 PIN - 9586-78-6389.000

BENCHMARK 60D NAIL POINT #1 EL: 448.12 NAVD 88 N: 568458.9388 E: 1987406.9281 NAD 83

- S6°38'45"E 23.66'(r/m)

–San MH TF=448.49 c∕l=441.4' - S6°38'45"E 17.98'(TIE)

SURVEYORS CERT	TIFICATE:

TO: MAVIS SOUTHEAST LLC, A DELAWARE LIMITED LIABILITY COMPANY AND FIDELITY NATIONAL TITLE INSURANCE COMPANY

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2021 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 1,2,3,4,5,6(A)(B),7(A),7(B)(1),7(C),8,9,11(A)(B),13,14,16, 17,18,19 AND 20(A) OF TABLE A THEREOF. THE FIELD WORK WAS COMPLETED ON MAY 2 2024.



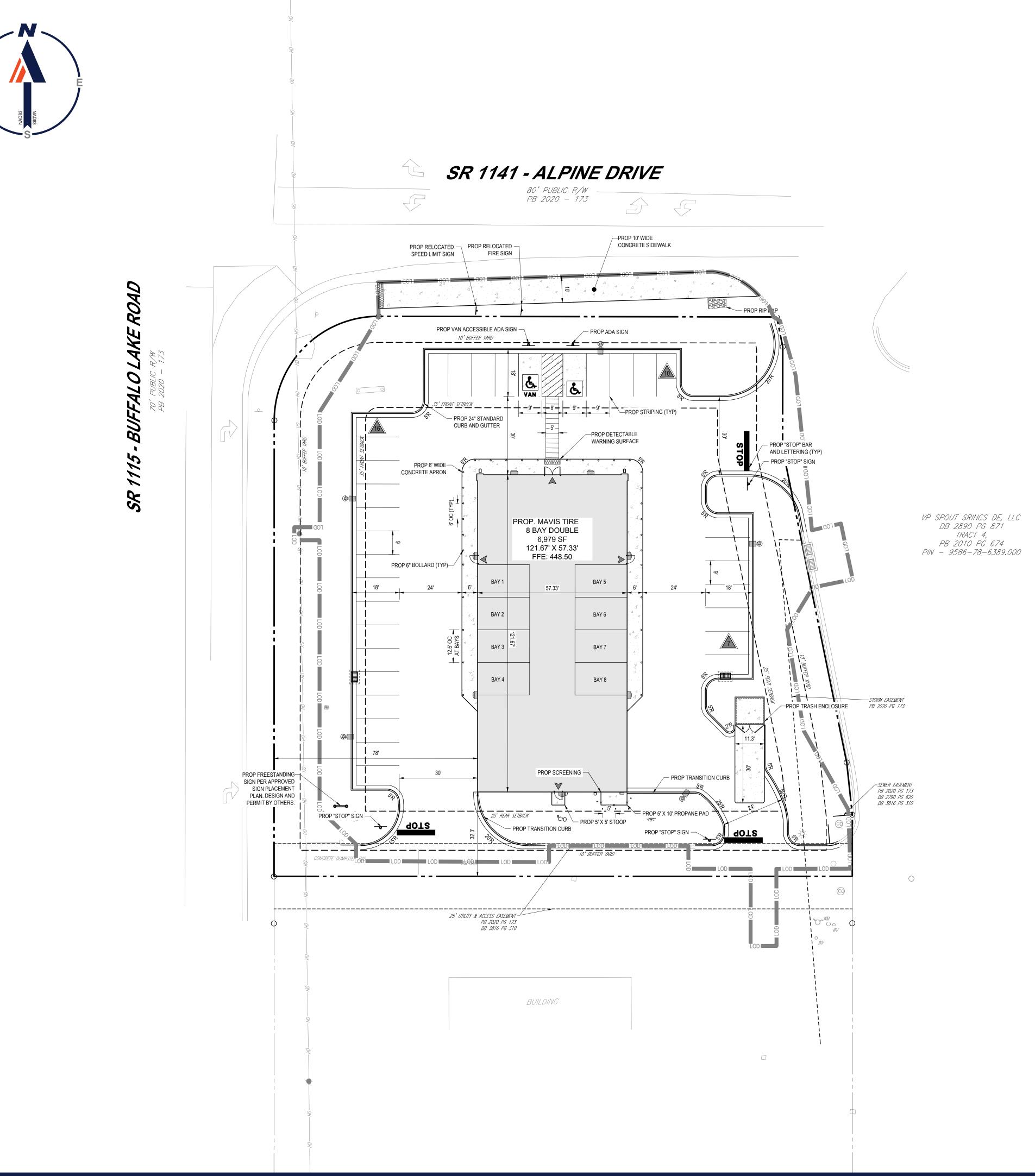


3420 Toringdon Way Suite 210 Charlotte, NC 28277 (704) 565-7070

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Pro	oject No.	2400906
Da	ite	05/10/2024
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L		'NSPS TITLE 'EY
Sh	ieet No.	
	C.	-202





GENERAL SITE NOTES

- 1. EQUITABLE OWNER: VENTURE PROPERTIES VI, LLC ADDRESS: 126 EXECUTIVE DRIVE, SUITE 200 WILKESBORO, NC 26697
- 2. EQUITABLE DEVELOPER/APPLICANT MAVIS TIRE SUPPLY, LLC ADDRESS: 358 SAW MILL RIVER ROAD, MILLWOOD, NY 10546 CONTACT: KRISTEN MORSE
- 3. ALL SIDEWALKS, STRIPING AND SIGNAGE TO BE ADA AND CODE COMPLIANT.
- 4. ZONING DATA: PARCEL NUMBER: 9586-78-3406.00 PARCEL AREA: 1.013 AC
- EXISTING ZONING: COMMERCIAL PROPOSED USE: AUTO SERVICE CENTER (MAVIS TIRE) 5. THIS PLAN IS BASED ON THE FOLLOWING SURVEY INFORMATION:
 - BL COMPANIES, INC. 3420 TORINGDON WAY, SUITE 210 CHARLOTTE, NC 28277
 - DATED: 05/10/2024 JOB # /SURVEY JOB: 2400906
- 6. THE IMPROVEMENTS FOR THIS PROJECT INCLUDE THE CONSTRUCTION OF A MAVIS TIRE, ASSOCIATED PARKING FACILITIES, AND INSTALLATION OF UNDERGROUND UTILITIES.
- SITE IS SERVED BY HARNETT WATER WORKS AND SANITARY SEWER BOARD.
- ALL MECHANICAL AREAS LOCATED ON, BESIDE, OR ADJACENT TO ANY BUILDING OR DEVELOPMENTS SHALL BE SCREENED FROM THE VIEWS OF STREETS AND ADJACENT PROPERTY.
- 9. THIS DEVELOPMENT IS WITHIN ONE MILE OF A VOLUNTARY AGRICULTURAL DISTRICT.
- 9. THIS DEVELOPMENT IS WITHIN THE FIVE MILE MILITARY CORRIDOR OVERLAY ZONE AND MAY BE SUBJECT TO MILITARY TRAINING ACTIVITIES.

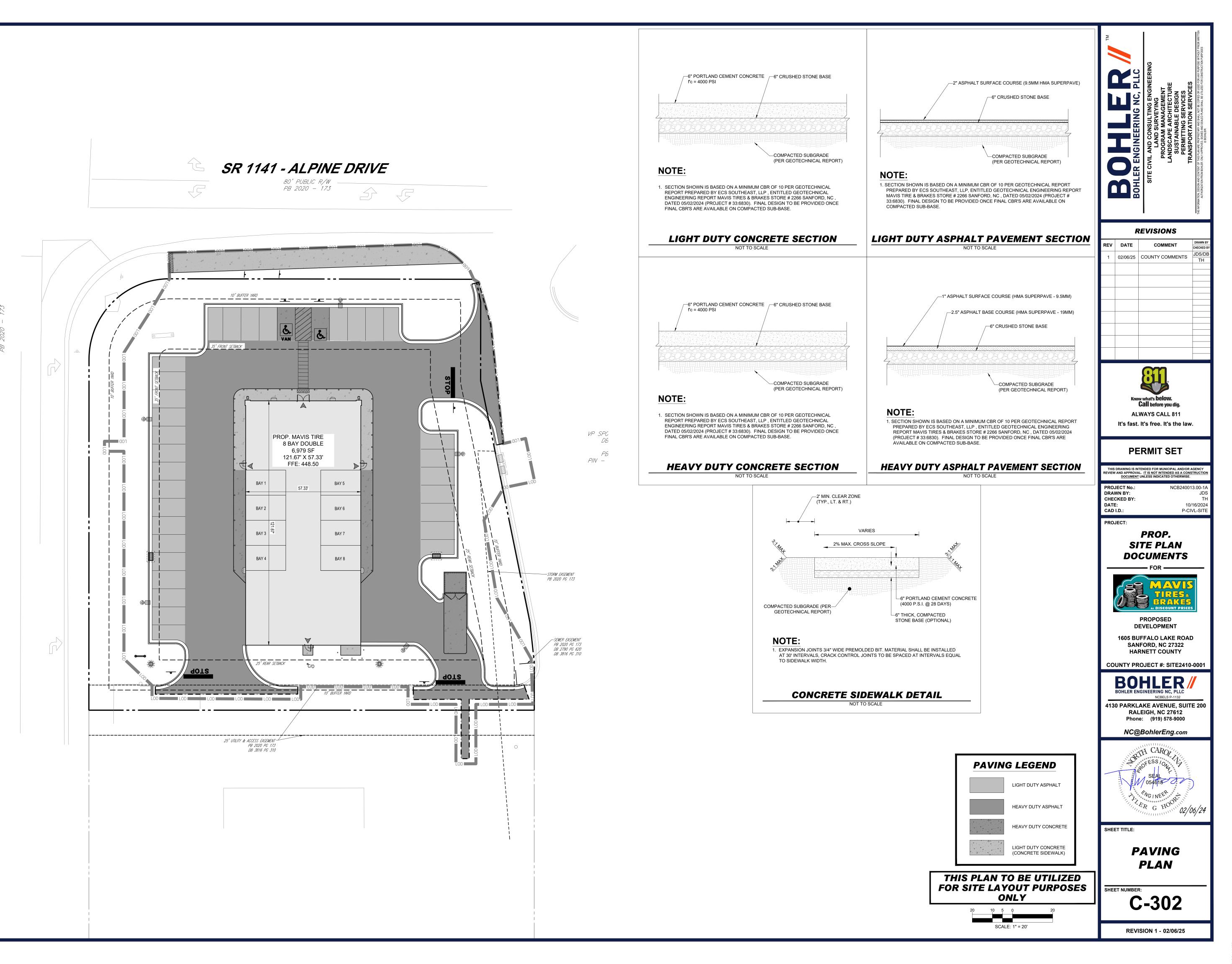
BULK CHART

BULK REQU	JIREMENTS:	REQUIRED	PROVIDED
A. BUILDIN	G SETBACK REQUIREMENTS		
	FRONT SETBACK	35'	±60.3' / ±78.0'
	REAR SETBACK	25'	±32.3' / ±60.1'
B. LANDSC	APE SETBACK REQUIREMENTS	-	-
	BUFFER YARD	10' 10'	
C. PARKIN	G REQUIREMENTS		
	3 SPACES PER SERVICE BAY PLUS ONE SPACE PER EMPLOYEE	3 X 8 = 24 +8 EMPLOYEES = 32 SPACES	33 SPACES
D. MIN. PA	RKING SPACE DIMENSIONS	9' x 18'	9' x 18'
E. MIN. DR	IVE AISLE	24'	24'

SCALE: 1" = 20'

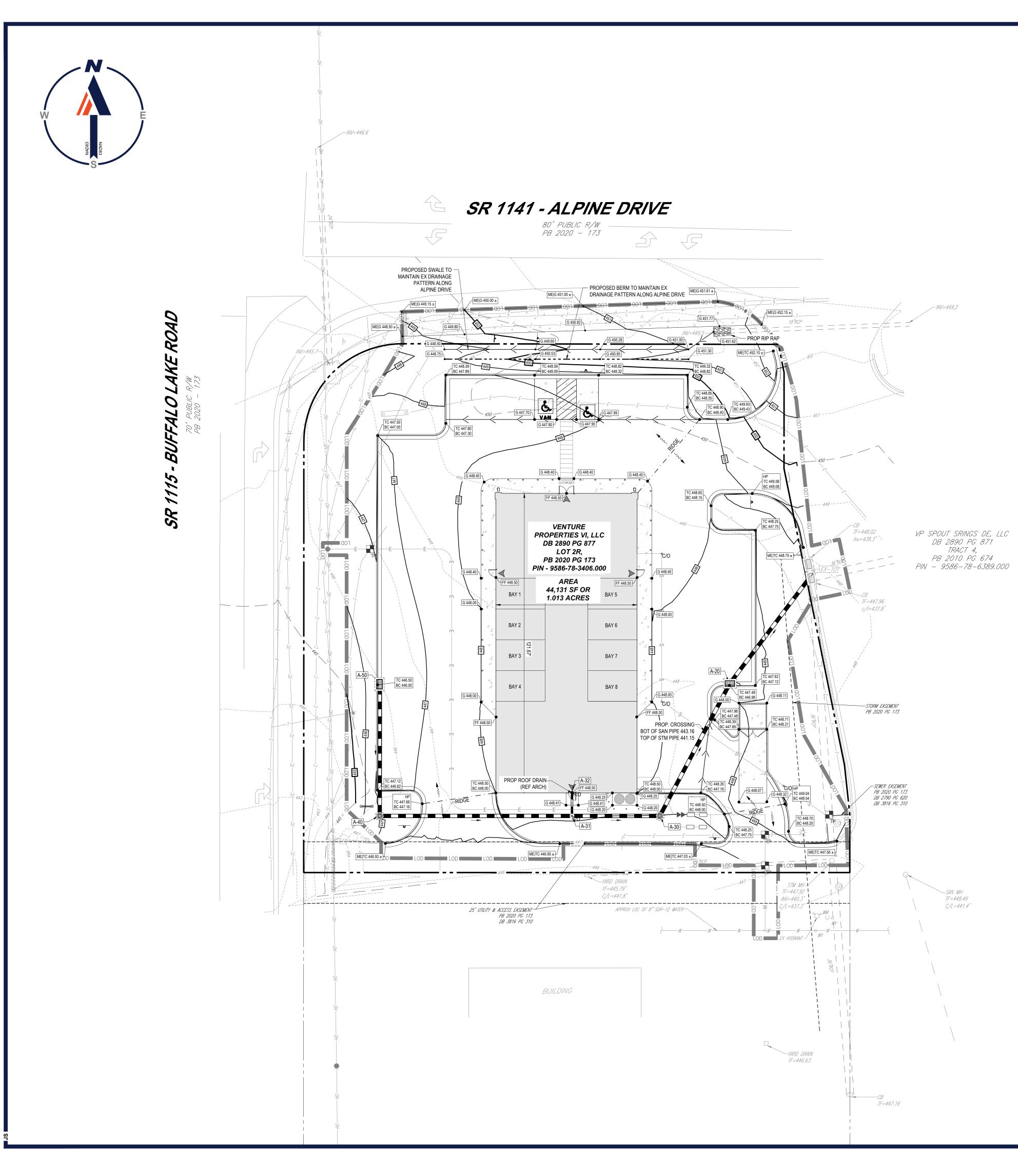
S						SITE CIVIL AND CONSULTING ENGINEERING LAND SURVEYING PROGRAM MANAGEMENT PROGRAM MANAGEMENT LANDSCAPE ARCHITECTURE SUSTAINABLE DESIGN PERMITTING SERVICES TRANSPORTATION SERVICES TRANSPORT AND SHALI NOT BE COPED ON USED FOR ANY PURPOSE MICHORATION REGION FOR CONSTRUCTION PURPOSES BORLER
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200				REV	DATE 02/06/25	COMMENT DRAWN BY CHECKED BY COUNTY COMMENTS JDS/DB TH
LWOO	DD, NY 10546					
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	ILITARY CT TO MILITARY					
					PE	ERMIT SET
	REQUIRED	PROVIDED]		AND APPROVA	ITENDED FOR MUNICIPAL AND/OR AGENCY AL. IT IS NOT INTENDED AS A CONSTRUCTION UNLESS INDICATED OTHERWISE.
	35'	±60.3' / ±78.0' ±32.3' / ±60.1'	-	DRA	JECT No.: WN BY: CKED BY:	NCB240013.00-1A JDS TH
	10'	10'	-	DATE CAD	I.D.:	10/16/2024 P-CIVL-SITE
ONE	3 X 8 = 24		-	PRO	JECT:	PROP.
	+8 EMPLOYEES = 32 SPACES 9' x 18'	33 SPACES 9' x 18'	-		_	TE PLAN CUMENTS
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					BO BOHLER EN	HLER// NGINEERING NC, PLLC NCBELS P-1132
				413	RAI	AKE AVENUE, SUITE 200 LEIGH, NC 27612 ne: (919) 578-9000
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	THIS PLAN T OR SITE LAY					SITE PLAN
				SHEI		C-301





SR 1115 - BUFFAL O LAKE ROAD

BOUL FEENG.NET/SHARES/NC-PROJECTS/2024/NCB240013.00/CAD/DRAWINGS/PLAN SETS/P-CIVL-SITE-NCB240013.00-1A----->LAYOUT: C-302 PAVING



IMPERVIOUS AREA TABLE (WITHIN LOD)							
GROUND TYPE	PRE-DEVELOPMENT AREA	POST-DEVELOPMENT AREA	DELTA				
	0.00 AC	0.70 AC	+0.70 AC				
IMPERVIOUS (0 SF) (30,662 SF) +(30,662 SF							
0.95 AC 0.25 AC -0.70 AC							
PERVIOUS (41,654 SF) (10,992 SF) -(30,662 SF)							
	HAS ACCOUNTED FOR 43,560 SF OF IMPER IOUSLY APPROVED BY NCDEQ. ACTIVE PER	VIOUS SURFACE RUNOFF TO THEIR STORMW	VATER MANAGEMENT				

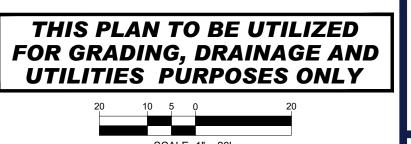
STORM STRUCTURE SCHEDULE							
STRUCTURE #	CATEGORY	GRT/RIM	INV IN	INV OUT			
A-20	NCDOT 840.03 CURB INLET	447.01	INV IN = 439.25' (15")	INV OUT = 439.25 (15"			
A-30	ADS NYOPLAST STRUCTURE WITH SOLID TOP	447.99	INV IN = 440.70' (15")	INV OUT = 440.70 (15")			
A-31	15"X15"X8" REDUCING WYE CONNECTION	448.13	INV IN = 441.15' (15") INV IN = 441.40' (8")	INV OUT = 441.15 (15")			
A-32	ROOF DRAIN CONNECTION (REF. ARCH)	442.25		INV OUT = 441.50 (8")			
A-40	ADS NYOPLAST STRUCTURE WITH SOLID TOP	446.92	INV IN = 442.10' (15")	INV OUT = 442.10 (15")			
A-50	NCDOT 840.03 CURB INLET	446.00		INV OUT = 442.75 (15")			
EX-10	EX. CATCH BASIN	448.00	INV IN = 437.80' (15")	INV OUT = 437.80 (36")			

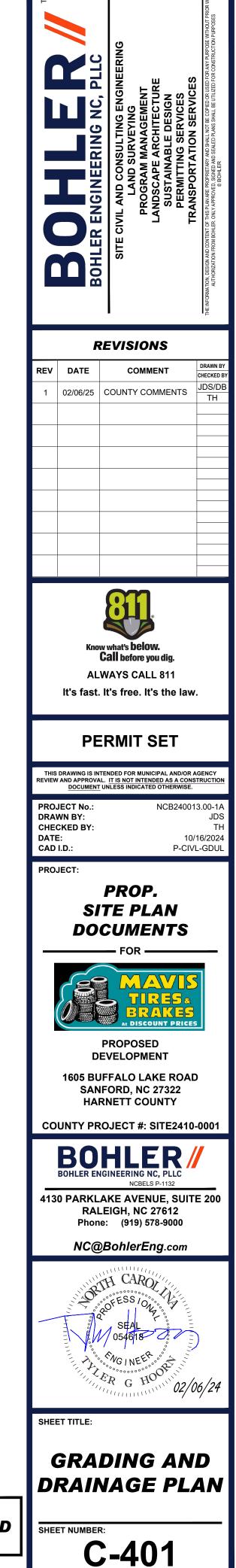
STORM SEWER PIPE SCHEDULE								
FROM	FROM INV	то	TO INV	PIPE LENGTH	SLOPE (%)	DIAMETER (IN.)	MATERIAL	
A-20	439.25'	EX-10	437.80'	53'	2.72%	15"	HDPE	
A-30	440.70'	A-20	439.25'	61'	2.38%	15"	HDPE	
A-31	441.15'	A-30	440.70'	36'	1.26%	15"	HDPE	
A-32	441.50'	A-31	441.40'	10'	1.00%	8"	HDPE	
A-40	442.10'	A-31	441.15'	78'	1.22%	15"	HDPE	
A-50	442.75'	A-40	442.10'	54'	1.21%	15"	HDPE	

GRADING NOTES

- 1. CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF EXISTING STRUCTURES INCLUDING REMOVAL OF ANY EXISTING UTILITIES. UTILITIES ARE TO BE REMOVED TO THE RIGHT-OF-WAY.
- 2. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
- 3. ALL CUT OR FILL SLOPES SHALL BE 3:1 OR FLATTER UNLESS OTHERWISE NOTED. SLOPE MATTING IS TO BE USED FOR SLOPES STEEPER THAN 3:1.
- 4. PRECAST STRUCTURES MAY BE USED AT CONTRACTORS OPTION.
- 5. EXISTING PIPES TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS.
- 6. EXISTING GRADE CONTOUR INTERVALS SHOWN AT 1'.
- 7. PROPOSED GRADE CONTOUR INTERVALS SHOWN AT 1'.
- 8. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION, IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.
- 9. THE CONTRACTOR SHALL ADHERE TO ALL TERMS & CONDITIONS AS OUTLINED IN THE EPA OR APPLICABLE STATE GENERAL N.P.D.E.S. PERMIT FOR STORM WATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES AND THE SPECIAL CONDITIONS, SECTION 8, ENVIRONMENTAL COMPLIANCE AND STORM WATER POLLUTION PREVENTION.
- 10. CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.
- 11. CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS.
- 12. TOPOGRAPHIC INFORMATION IS TAKEN FROM A TOPOGRAPHIC SURVEY BY LAND SURVEYORS. IF THE CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, THEN THE CONTRACTOR SHALL SUPPLY, AT THEIR EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR TO THE OWNER FOR REVIEW.
- 13. ALL UNSURFACED AREAS DISTURBED BY GRADING OPERATION SHALL RECEIVE 4 INCHES OF TOPSOIL. CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPES 3H:1V OR STEEPER. CONTRACTOR SHALL STABILIZE DISTURBED AREAS IN ACCORDANCE WITH GOVERNING SPECIFICATIONS UNTIL A HEALTHY STAND OF VEGETATION IS OBTAINED.
- 14. CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODE AND BE CONSTRUCTED TO SAME.
- 15. ALL CONCRETE STORM STRUCTURES SHALL HAVE A SMOOTH UNIFORM POURED MORTAR INVERT FROM INVERT IN TO INVERT OUT. HDPE STRUCTURES MAY CONTAIN A SUMP AS ALLOWED BY THE MANUFACTURER
- 16. CONTRACTOR TO ADJUST ANY EXISTING STRUCTURES TO PROPOSED GRADE IN ANY AREA OF PROPOSED GRADING.
- 17. ALL ROOF DRAINAGE SHALL SPLASH TO GRADE. REFER TO ARCH. PLANS FOR ADDITIONAL INFORMATION.
- 18. FOR FOUNDATION SUBSURFACE PREPARATION NOTE, REFERENCE GEOTECHNICAL REPORT.

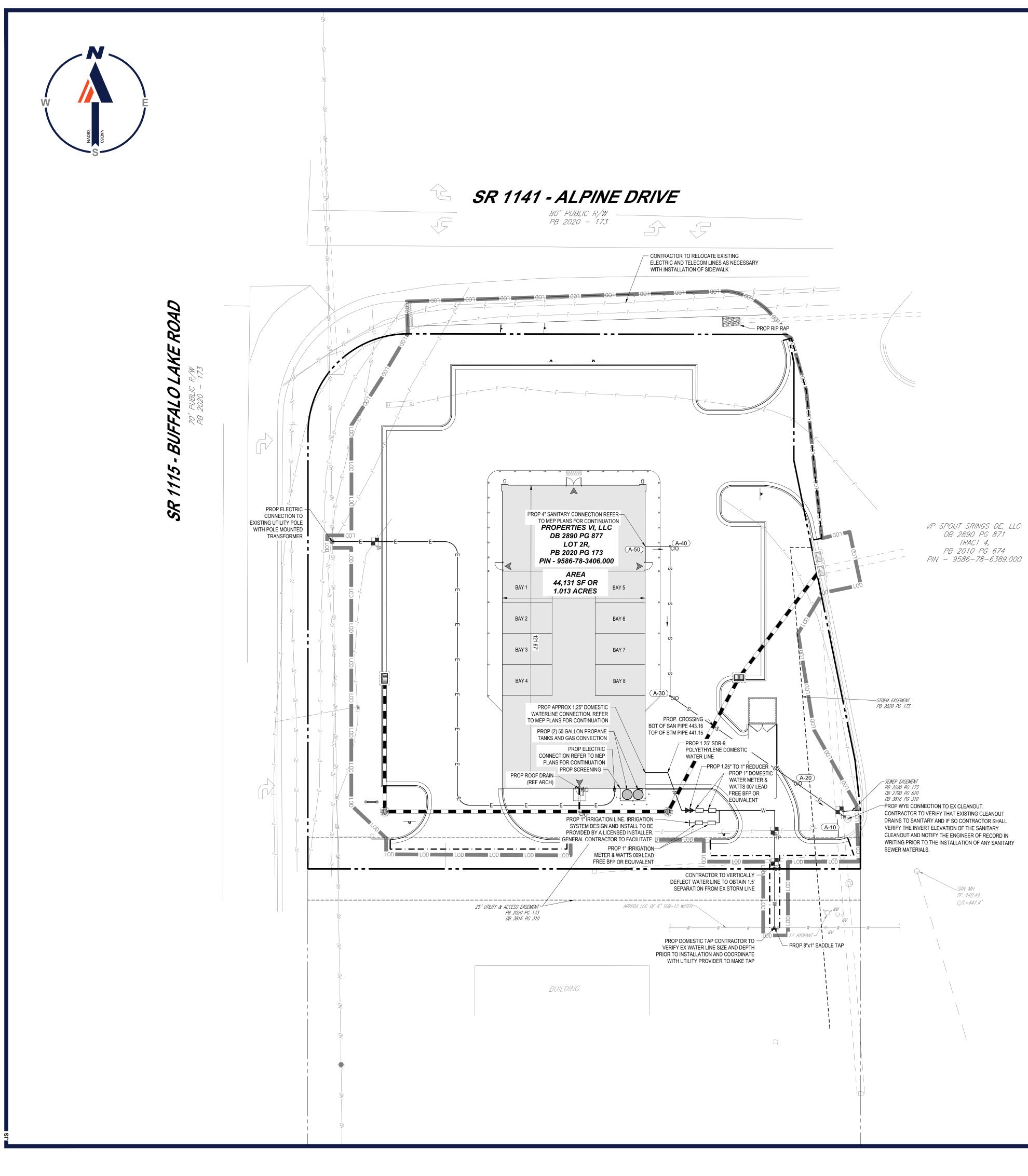
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REVISION 1 - 02/06/25

SCALE: 1" = 20'

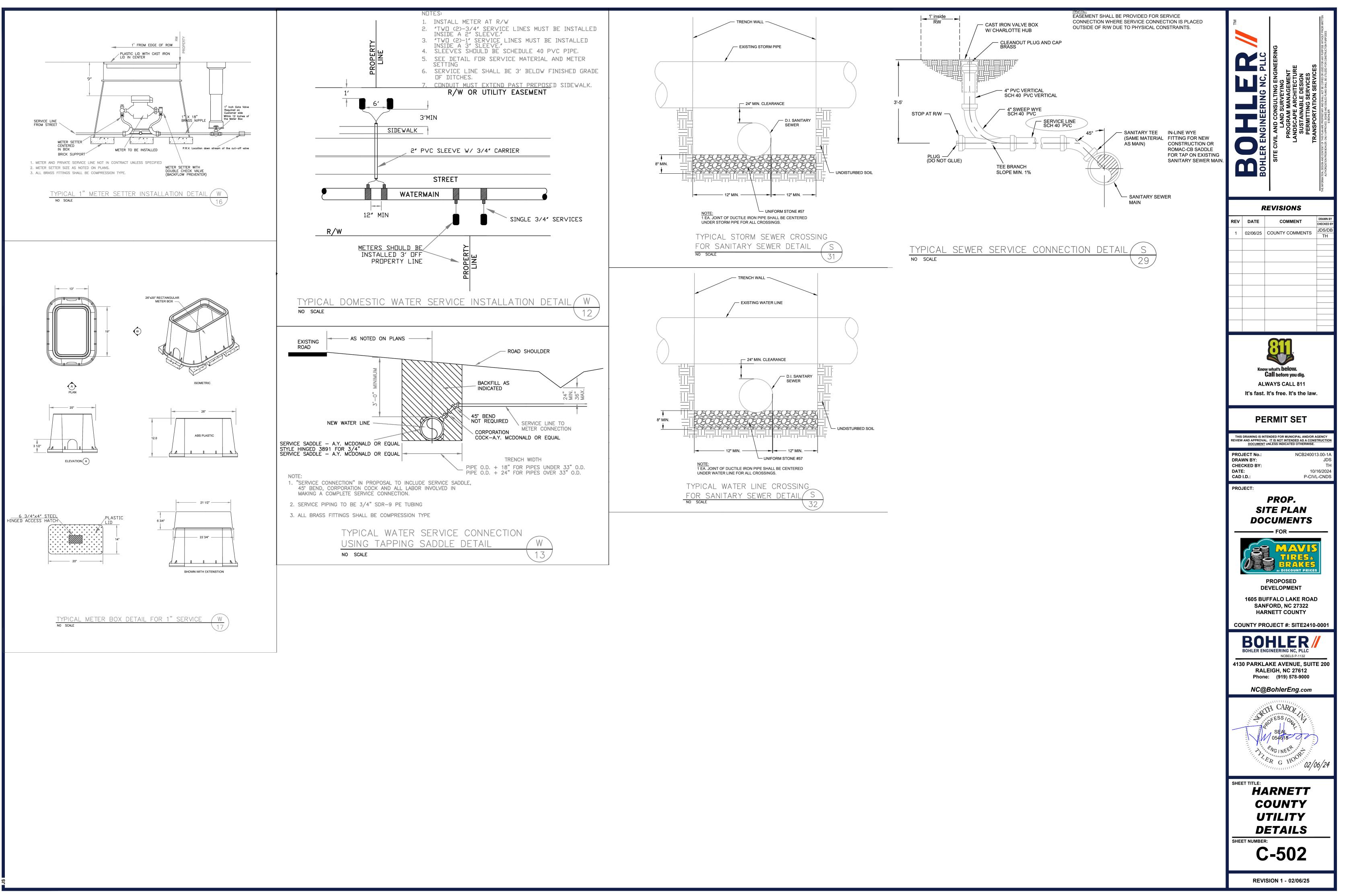


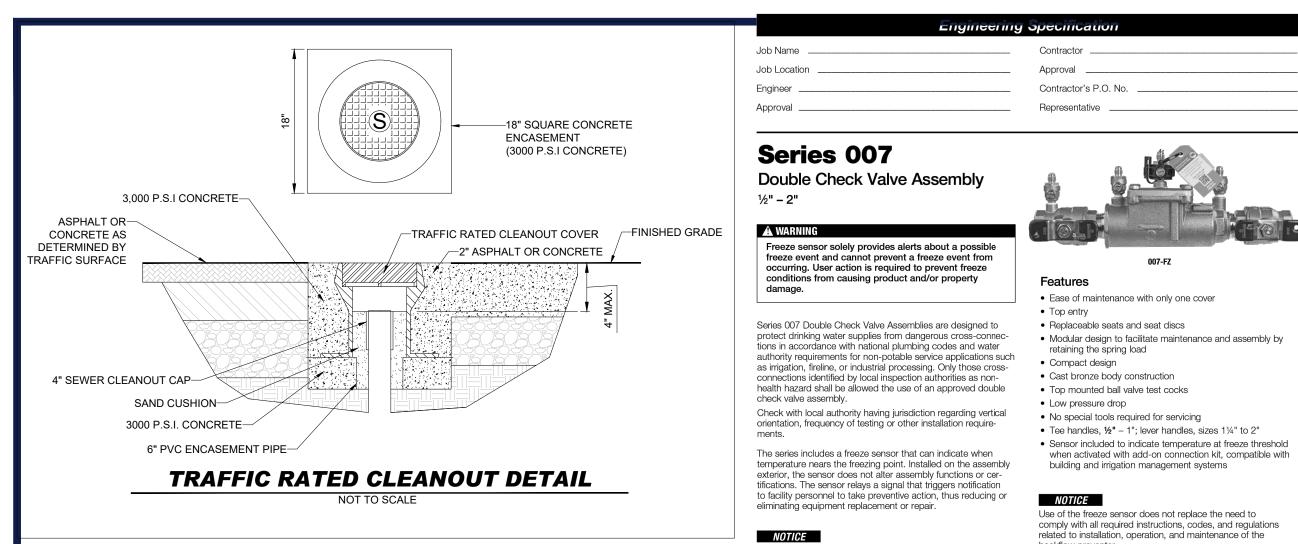
SANITARY STRUCTURE SCHEDULE									
CATEGORY	RIM	INV IN	INV OUT						
4" WYE CONN TO EX CLEANOUT	448.00	INV IN = 442.00' (4")							
CLEANOUT	448.80	INV IN = 442.40' (4")	INV OUT = 442.40 (4")						
TRAFFIC RATED CLEANOUT	447.90	INV IN = 443.60' (4")	INV OUT = 443.60 (4")						
TRAFFIC RATED CLEANOUT	448.33	INV IN = 444.80' (4")	INV OUT = 444.80 (4")						
CONN. TO BUILDING (REF. ARCH)			INV OUT = 445.00 (4")						
	CATEGORY 4" WYE CONN TO EX CLEANOUT CLEANOUT TRAFFIC RATED CLEANOUT TRAFFIC RATED CLEANOUT	CATEGORYRIM4" WYE CONN TO EX CLEANOUT448.00CLEANOUT448.80TRAFFIC RATED CLEANOUT447.90TRAFFIC RATED CLEANOUT448.33	CATEGORY RIM INV IN 4" WYE CONN TO EX CLEANOUT 448.00 INV IN = 442.00' (4") CLEANOUT 448.80 INV IN = 442.40' (4") TRAFFIC RATED CLEANOUT 447.90 INV IN = 443.60' (4") TRAFFIC RATED CLEANOUT 448.33 INV IN = 444.80' (4")						

SANITARY PIPE SCHEDULE

FROM	FROM INV	то	TO INV	PIPE LENGTH	SLOPE (%)	DIAMETER (IN.)	MATERIAL
A-20	442.40'	A-10	442.00'	27'	1.51%	4"	SCH-40 PVC Pipe
A-30	443.60'	A-20	442.40'	60'	1.99%	4"	SCH-40 PVC Pipe
A-40	444.80'	A-30	443.60'	60'	2.00%	4"	SCH-40 PVC Pipe
A-50	445.00'	A-40	444.80'	10'	2.00%	4"	SCH-40 PVC Pipe

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	REVISIONS
	REV DATE COMMENT DRAWN BY CHECKED BY 1 02/06/25 COUNTY COMMENTS JDS/DB TH
	Know what's below. Call before you dig. ALWAYS CALL 811
	It's fast. It's free. It's the law. PERMIT SET THIS DRAWING IS INTENDED FOR MUNICIPAL AND/OR AGENCY REVIEW AND APPROVAL. IT IS NOT INTENDED AS A CONSTRUCTION DOCUMENT UNLESS INDICATED OTHERWISE. PROJECT NO.: NCB240013.00-1A
	DRAWN BY: JDS CHECKED BY: TH DATE: 10/16/2024 CAD I.D.: P-CIVL-GDUL PROJECT: PROP. SITE PLAN DOCUMENTS FOR FOR
	PROPOSED DEVELOPMENT 1605 BUFFALO LAKE ROAD SANFORD, NC 27322 HARNETT COUNTY COUNTY PROJECT #: SITE2410-0001
	ACCORDANCE AVENUE, SUITE 200 RALEIGH, NC 27612 Phone: (919) 578-9000 NC@BohlerEng.com
	SEAL SEAL SEAL SEAL SEAL SHEET TITLE:
THIS PLAN TO BE UTILIZED FOR UTILITIES PURPOSES	UTILITY PLAN
20 10 5 0 20 SCALE: 1" = 20'	C-501
	REVISION 1 - 02/06/25





An add-on connection kit is required to activate the freeze sensor. Without the connection kit, the sensor is a passive component that does not communicate with any other device. (For more information download RP/IS-007S.)

Watts product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Watts Technical Service. Watts reserves the right to change or modify product design, construction, specifications, or materials with-out prior notice and without incurring any obligation to make such changes and modifications on Watts products previously or subsequently sold.

NOTICE The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product. Inquire with governing authorities for local installation requirements.

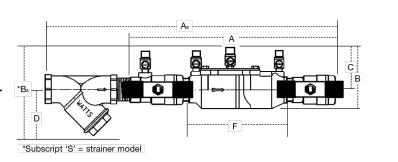
installation.

backflow preventer.

Watts is not responsible for data transmission failures due to

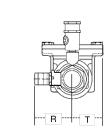
power outages, connectivity issues, or improper

lo	
	4
1	
	007-FZ



Call customer service if you need assistance with technical details.

MODEL SIZE



Engineering Specification

Contractor -----Approval — Contractor's P.O. No. -----

Representative ----

009M2-QT-FS

Test Cock No. 3

Ball Type _ Test Cocks

Test Cock

Module

Series 009

Job Name

Engineer

Approval

Job Location -

Reduced Pressure Zone Assemblies ¹⁄4" – 2"

A WARNING It is illegal to use this product in any plumbing system providing water for human consumption, such as drinking or dishwashing, in the United States. Before installing standard material product, consult your local water authority, building and plumbing codes.

Series 009 Reduced Pressure Zone assemblies are designed to protect potable water supplies in accordance with national plumbing codes and water authority requirements. Specifically, the series protects drinking water supplies from dangerous cross-connections in accordance with national plumbing codes and water authority requirements for non-potable service applications such as irrigation, fireline, or industrial processing. The series features two in-line, independent check valves, captured springs, and replaceable check seats with an intermediate relief valve. Its compact modular design facilitates maintenance and assembly access. Sizes 1/4" to 1" shutoffs

have tee handles. Series 009 assemblies of sizes 1/2" to 2" include a flood sensor to detect excessive water discharges from the relief valve. The sensor is installed on the assembly exterior and does not alter assembly functions or certifications. The sensor relays a signal that triggers notification to facility who can take corrective action, thus avoiding the possibility of ruinous flooding and costly damage.

NOTICE

An add-on connection kit is required to activate the flood sensor. Without the connection kit, the sensor is a passive component that has no communication with any other device. (For more information, download RP/IS-009.)

Features Single access cover and modular check construction

- for ease of maintenance • Top entry to all internals for immediate accessibility
- Captured springs for safe maintenance Internal relief valve for reduced installation clearances
- Replaceable seats for economical repair
- Bronze body construction for durability (1/4" 2") Ball valve test cocks — screwdriver slotted (1/4" – 2")
- Large body passages provides low pressure drop Compact, space saving design

 No special tools required for servicing Sensor on the relief valve for flood detection (1/2" – 2")

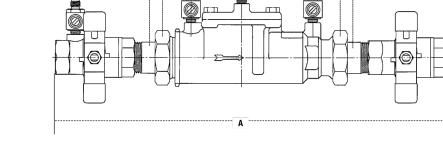
Watts product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements

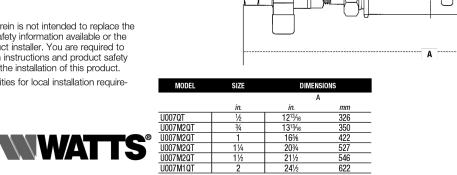
please contact Watts Technical Service. Watts reserves the right to change or modify product design, construction, specifications, or materials with-out prior notice and without incurring any obligation to make such changes and modifications on Watts products previously or subsequently sold.





• Sensor included to indicate temperature at freeze threshold Suffix HC - Fire Hydrant Fittings dimension "A" = 23½" (594 mm) 1" U007M1QT -- Union Tailpiece Union Tailpiece Union Nut Union Nut





Dimensions – Weight

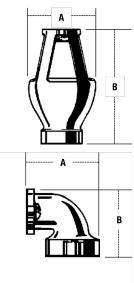
Call customer service if you need assistance with technical details. 1/." 3/."

	1⁄4" – 3	3⁄8"							1,	⁄2" - 2 '	I						
		— M							3		M						C B D
and the second s																	
	MODEL					DIMENSION	S (APPROX.)							DIMENSIONS	5	WE	GHT
	MODEL in.	ín.	A mm	in.	3 	DIMENSION	S (APPROX.) C mm) mm	in.	mm		STRAINER [M mm	DIMENSIONS	N mm	WEI Ib	
			i i		3	(C	[í I	in. 5½	<i>mm</i> 140	P	N	1	N		GHT <u>kg</u> 2
	in. 1/4 ³ /8	in.	mm	in. 45% 45%	3 <i>mm</i>	in. 33% 33%	c <i>mm</i> 86 86	in.	mm			in. 23/8 23/8	M <u>mm</u> 60 60	in. 2½ 2½	N <u>mm</u> 64 64	<i>lb</i> 5 5	kg 2 2
	in. 1/4 3% 1/2	<i>in.</i> 10 10 10	mm 250 250 250	in. 45% 45% 57%	3 <u>mm</u> 117 117 149	in. 33% 33% 33%	c mm 86 86 86	in. 11/4 11/4 21/2	mm 32 32 64	5½ 5½ 5½	140 140 140	in. 2¾ 2¾ 2¾	M <u>mm</u> 60 60 70	in. 2½ 2½ 2½	N <u>mm</u> 64 64 57	<i>lb</i> 5 5 5	kg 2 2 2
	in. 1/4 ³ /8	<i>in.</i> 10 10 10 10 ³ / ₄	mm 250 250 250 273	in. 45% 45% 57% 61/4	3 <u>mm</u> 117 117 149 159	in. 33% 33% 33% 33% 31/2	2 <u>mm</u> 86 86 86 89	in. 11/4 11/4 21/2 23/4	mm 32 32 64 70	5½ 5½ 5½ 6¾	140 140 140 171	in. 23% 23% 23% 23% 33/16	<i>mm</i> 60 60 70 81	in. 2½ 2½ 2¼ 2¼ 2¾	n <u>mm</u> 64 64 57 70	<i>lb</i> 5 5 5 6	kg 2 2 2 2 3
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	in. 1/4 3/8 1/2 3/4 1 1 ¹ /4	in. 10 10 10 ³ / ₄ 14 ¹ / ₂ 17 ³ / ₈	mm 250 250 250 273 368 441	in. 45% 45% 57% 61/4 61/4 63/4	3 <u>mm</u> 117 117 149 159 159 169	in. 33% 33% 33% 33% 33% 33% 33%	2 mm 86 86 86 89 76 89	in. 11/4 11/4 21/2 23/4 31/4 31/4	mm 32 32 64 70 83 83	5½ 5½ 5½ 6¾ 9½ 11%	140 140 140 171 241 289	in. 23% 23% 23% 33% 33% 33% 47/16	M <u>mm</u> 60 60 70 81 95 113	in. 2½ 2½ 2¼ 2¾ 3 3½	N <u>mm</u> 64 64 57 70 76 89	<i>lb</i> 5 5 6 12 15	kg 2 2 2 3 5 6
Test Cock No. 4	in. 1/4 3/8 1/2 3/4 1 1½ 1½	in. 10 10 10 10 ³ /4 14 ¹ / ₂ 17 ³ / ₈ 17 ⁷ / ₈	mm 250 250 250 273 368 441 454	in. 45% 45% 57% 61/4 61/4 63/4 63/4	3 <u>mm</u> 117 117 149 159 159 169 169	in. 33% 33% 33% 33% 31/2 3 31/2 31/2	C mm 86 86 86 86 89 76 89 89 89	in. 11/4 11/4 21/2 23/4 31/4 31/4 31/4	mm 32 32 64 70 83 83 83	5½ 5½ 6¾ 9½ 11¾ 11½	140 140 171 241 289 283	in. 23% 23% 23% 23% 33% 33% 47/16 47/8	M <u>mm</u> 60 60 70 81 95 113 124	in. 2½ 2½ 2¼ 2¾ 3 3½ 4	N <u>mm</u> 64 64 57 70 76 89 102	<i>lb</i> 5 5 6 12 15 16	kg 2 2 2 3 5 6 7
Test Cock No. 4	in. 1/4 3/8 1/2 3/4 1 1 ¹ /4	in. 10 10 10 ³ / ₄ 14 ¹ / ₂ 17 ³ / ₈	mm 250 250 250 273 368 441	in. 45% 45% 57% 61/4 61/4 63/4	3 <u>mm</u> 117 117 149 159 159 169	in. 33% 33% 33% 33% 33% 33% 33%	2 mm 86 86 86 89 76 89	in. 11/4 11/4 21/2 23/4 31/4 31/4	mm 32 32 64 70 83 83	5½ 5½ 5½ 6¾ 9½ 11%	140 140 140 171 241 289	in. 23% 23% 23% 33% 33% 33% 47/16	M <u>mm</u> 60 60 70 81 95 113	in. 2½ 2½ 2¼ 2¾ 3 3½	N <u>mm</u> 64 64 57 70 76 89	<i>lb</i> 5 5 6 12 15	kg 2 2 2 3 5 6

Air Gaps and Elbows

Second Check Module Assembly

R.P. Zone	MODEL	SIZE	DRAIN	OUTLET		DIME	ISIONS		WE	GHT
elief Valve Assembly Water Outlet		For 909, 009, and 993				A		3		
			in.	mm	in.	mm	in.	mm	lb	kg
NOTIOE	909AGA	1⁄4"-1⁄2" 009,	1/2	13	23/8	60	31/8	79	0.625	0.2
NOTICE		3⁄4" 009M2/M3								
se of the flood sensor does not replace the need to comply	909AGC	¾" — 1" 009/909,	1	25	31⁄4	83	41/8	124	1.5	0.6
vith all required instructions, codes, and regulations related o installation, operation, and maintenance of this product,		1"-1½" 009M2								
icluding the need to provide proper drainage in the event of	909AGF	1¼"–2" 009M1,	2	51	4%	111	6¾	171	3.25	1.4
discharge.		11/4"-3" 009/909,								
Watts® is not responsible for the failure of alerts due to		2" 009M2, 4"-6" 993								
onnectivity or power issues.	909AGK	4"-6" 909,	3	76	63%	162	9%	244	6.25	2.8
NOTICE		8"-10" 909M1								
he information contained herein is not intended to replace the	909AGM	8"-10" 909	4	102	7%	187	11¼	286	15.5	7.0
Ill product installation and safety information available or the	909ELA	1/4"-1/2" 009, 3/4" 009M2/M3	-	-	_	-	-	_	-	-
perience of a trained product installer. You are required to	909ELC	34"-1" 009/909	_	-	23/8	60	23/8	60	0.38	0.1
noroughly read all installation instructions and product safety	909ELF*	1¼"-2" 009M1,	-	-	35/8	92	31/8	92	2	0.9
formation before beginning the installation of this product.		11/4"-2" 009/909.								
quire with governing authorities for local installation equirements.		2" 009M2, 4"-6" 993								
quirements.	909ELH*	21/2"-3" 009/909		_	_	<u> </u>	_	_	<u> </u>	_
	Vertical	272 0 003/303								



	BOHLER ENGINEERING NC. PLIC		SITE CIVIL AND CONSULTING ENGINEEKING LAND SURVEYING	PROGRAM MANAGEMENT		PERMITTING SERVICES TRANSPORTATION SERVICES	THE INFORMATION, DESIGN AND CONTENT OF THIS PLAN ARE PROPRIETARY AND SHALL NOT BE COPIED OR USED FOR ANY PURPOSE WITHOUT PROR WRITTEN AUTHORIZATION FROM BOHLER, ONLY APPROVED, SIGNED AND SEALED PLANS SHALL BE UTILIZED FOR CONSTRUCTION PURPOSES © BOHLER
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DETAILS

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REVISION 1 - 02/06/25

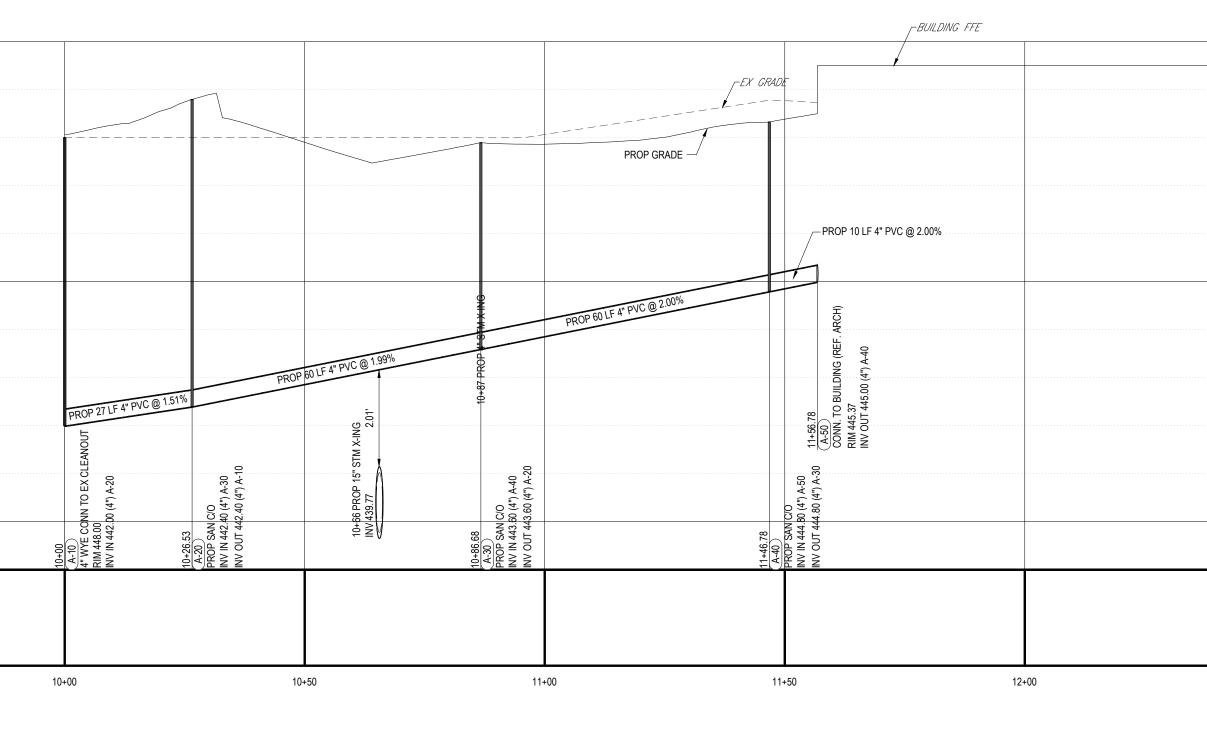
SHEET NUMBER:



STRUCTURE #	CATEGORY	RIM	INV IN	INV OUT
A-10	4" WYE CONN TO EX CLEANOUT	448.00	INV IN = 442.00' (4")	
A-20	CLEANOUT	448.80	INV IN = 442.40' (4")	INV OUT = 442.40 (4")
A-30	TRAFFIC RATED CLEANOUT	447.90	INV IN = 443.60' (4")	INV OUT = 443.60 (4")
A-40	TRAFFIC RATED CLEANOUT	448.33	INV IN = 444.80' (4")	INV OUT = 444.80 (4")
A-50	CONN. TO BUILDING (REF. ARCH)			INV OUT = 445.00 (4")

SANITARY PIPE SCHEDULE

FROM	FROM INV	то	TO INV	PIPE LENGTH	SLOPE (%)	DIAMETER (IN.)	MATERIAL
A-20	442.40'	A-10	442.00'	27'	1.51%	4"	SCH-40 PVC Pipe
A-30	443.60'	A-20	442.40'	60'	1.99%	4"	SCH-40 PVC Pipe
A-40	444.80'	A-30	443.60'	60'	2.00%	4"	SCH-40 PVC Pipe
A-50	445.00'	A-40	444.80'	10'	2.00%	4"	SCH-40 PVC Pipe



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PROPOSED SANITARY PROFILE (A-10 TO A-50)

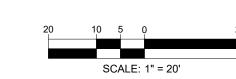
SCALE: 1"= 20 ' HORIZONTAL

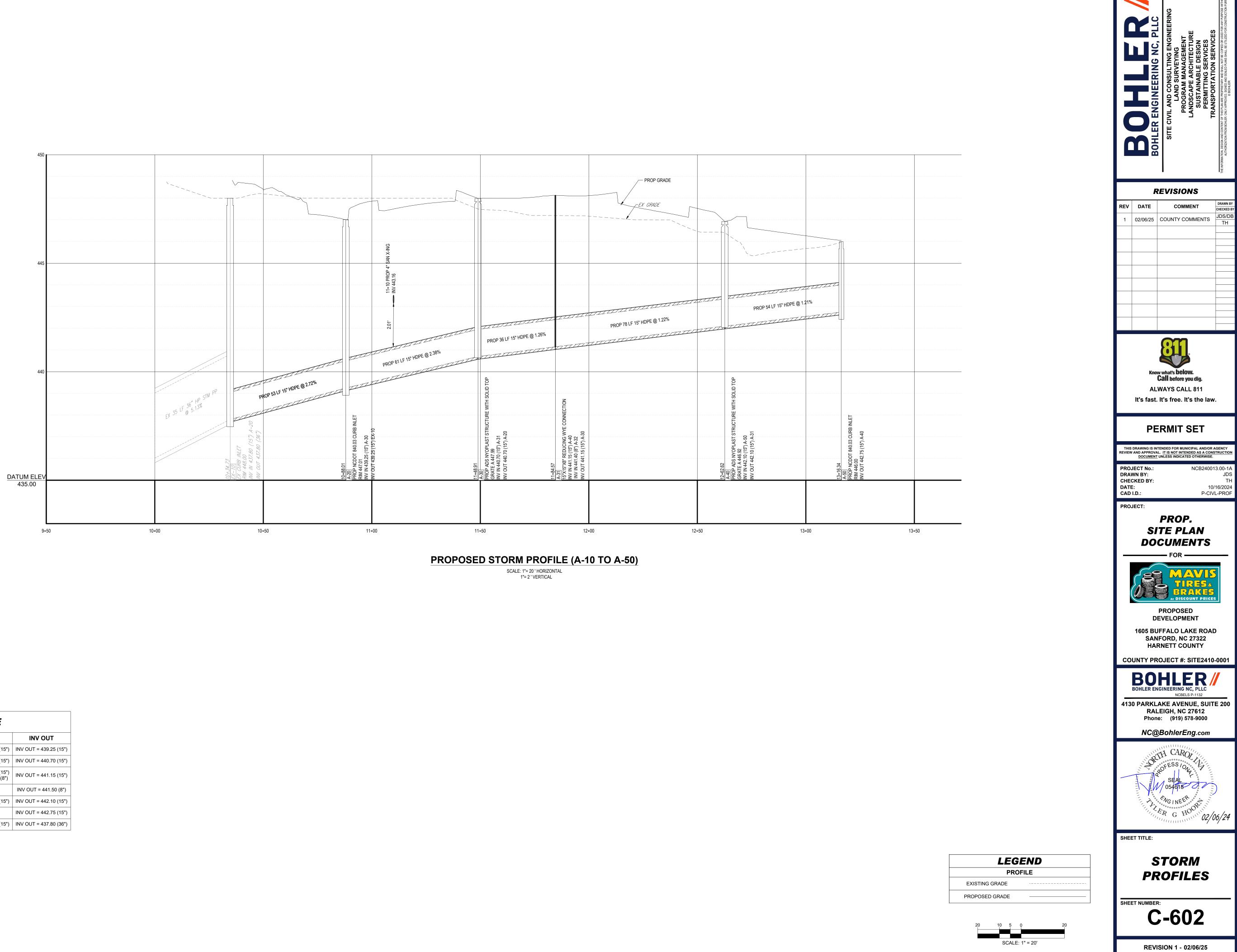
1"= 2 ' VERTICAL
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			SITE CIVIL AND CONSULTING ENGINEERING LAND SURVEYING PROGRAM MANAGEMENT LANDSCAPE ARCHITECTURE SUSTAINABLE DESIGN PERMITTING SERVICES TRANSPORTATION SERVICES TRANSPORTATION SERVICES	AUTHORIZATION FROM EXPILER, ONLY AFFROVED, SIGNED AND SEALED FLANS SFALL BE UTILIZED FOR CONSTRUCTION FURFUSES
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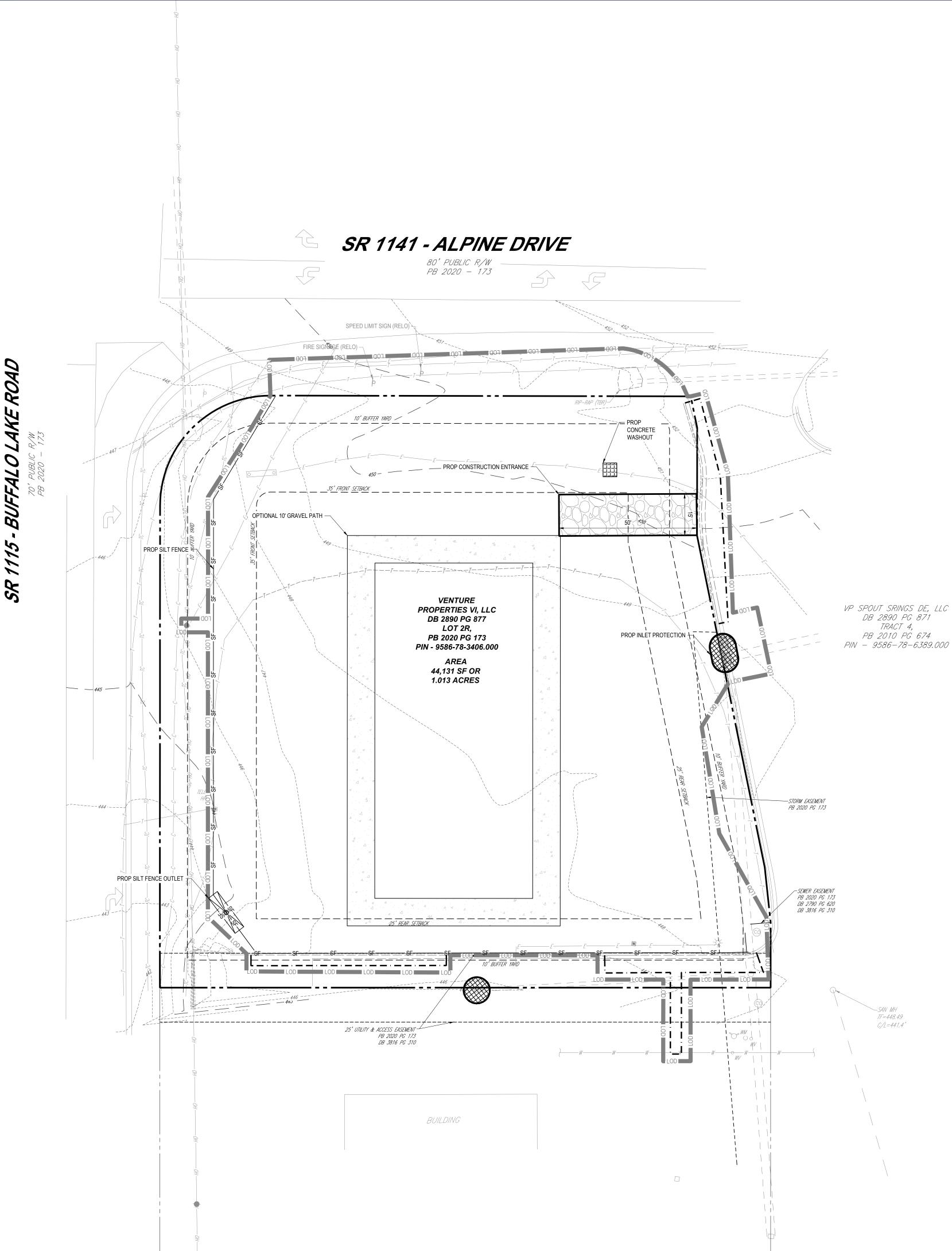
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STRUCTURE #	CATEGORY	GRT/RIM	INV IN	INV OUT
A-20	NCDOT 840.03 CURB INLET	447.01	INV IN = 439.25' (15")	INV OUT = 439.25 (15")
A-30	ADS NYOPLAST STRUCTURE WITH SOLID TOP	447.99	INV IN = 440.70' (15")	INV OUT = 440.70 (15")
A-31	15"X15"X8" REDUCING WYE CONNECTION	448.13	INV IN = 441.15' (15") INV IN = 441.40' (8")	INV OUT = 441.15 (15")
A-32	ROOF DRAIN CONNECTION (REF. ARCH)	442.25		INV OUT = 441.50 (8")
A-40	ADS NYOPLAST STRUCTURE WITH SOLID TOP	446.92	INV IN = 442.10' (15")	INV OUT = 442.10 (15")
A-50	NCDOT 840.03 CURB INLET	446.00		INV OUT = 442.75 (15")
EX-10	EX. CATCH BASIN	448.00	INV IN = 437.80' (15")	INV OUT = 437.80 (36")

STORM SEWER PIPE SCHEDULE

FROM	FROM INV	то	TO INV	PIPE LENGTH	SLOPE (%)	DIAMETER (IN.)	MATERIAL
A-20	439.25'	EX-10	437.80'	53'	2.72%	15"	HDPE
A-30	440.70'	A-20	439.25'	61'	2.38%	15"	HDPE
A-31	441.15'	A-30	440.70'	36'	1.26%	15"	HDPE
A-32	441.50'	A-31	441.40'	10'	1.00%	8"	HDPE
A-40	442.10'	A-31	441.15'	78'	1.22%	15"	HDPE
A-50	442.75'	A-40	442.10'	54'	1.21%	15"	HDPE
EX-10	437.80'		436.00'	35'	5.13%	36"	HP STM PP





EROSION CONTROL LEGEND

التحجم	
SF	
0.	
LOD	

CONSTRUCTION ENTRANCE CONCRETE WASHOUT

INLET PROTECTION

— SILT FENCE

LIMIT OF DISTURBANCE

PHASE I EROSION CONTROL CONSTRUCTION SEQUENCE

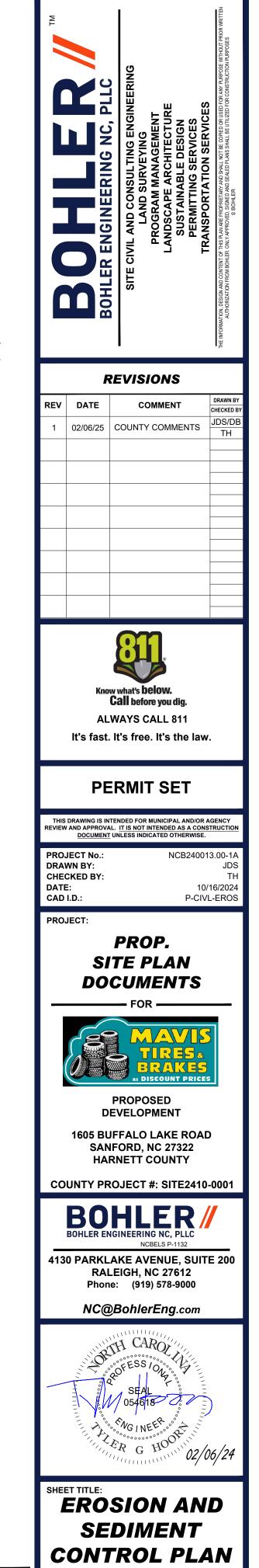
- 1. SCHEDULE A PRECONSTRUCTION CONFERENCE WITH HARNETT COUNTY.
- 2. CONTACT HARNETT COUNTY TO SCHEDULE A STORMWATER SITE INSPECTION.
- 3. POST REQUIRED DOCUMENTS NEAR THE PLANNED CONSTRUCTION EXIT, AND WITHIN EASY ACCESS TO THE GENERAL PUBLIC WITHOUT ENTERING THE SITE.
- 4. PRIOR TO ANY CLEARING OR INSTALLATION OF EROSION CONTROL DEVICES, CONTRACTOR SHALL STAKE/ FLAG THE LOD (WHERE STAKING IS NOT POSSIBLE/ PRACTICAL, THE LOD MUST BE CONSPICUOUSLY AND PROMINENTLY MARKED TO DENOTE THE BOUNDARY.) LOD MUST REMAIN CONSPICUOUSLY MARKED THROUGHOUT THE ENTIRE CONSTRUCTION PROJECT. NO DISTURBANCE IS TO TAKE PLACE BEYOND THE LOD.
- 5. INSTALL GRAVEL CONSTRUCTION PAD AND CONCRETE WASHOUT AREA.
- INSTALL SILT FENCE OR OTHER MEASURES AS SHOWN ON THE APPROVED PLAN. CLEAR ONLY AS NECESSARY TO 6 INSTALL THESE DEVICES. SEED TEMPORARY DIVERSIONS AND BERMS IMMEDIATELY AFTER CONSTRUCTION. 7. INSTALL INLET PROTECTION ON EXISTING INLETS DENOTED ON THIS PLAN.
- PRIOR TO PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING, CONTACT REGIONAL INSPECTION 8 COORDINATOR UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS.
- 9. UPON APPROVAL AND GRANTING OF CERTIFICATE OF COMPLIANCE FROM THE EROSION CONTROL SITE INSPECTION, COMMENCE PERMITTED LAND DISTURBING ACTIVITY.
- 10. PROCEED WITH CLEARING, GRUBBING, TOPSOIL STRIPPING, MAINTAINING EROSION CONTROL DEVICES AS NEEDED.
- 11. FINE GRADE THE SITE ADJUSTING BMP'S AS NEEDED TO PREVENT SEDIMENT LADEN RUNOFF AS THE SITE IS BROUGHT UP TO GRADE.
- 12. CONTINUOUSLY MONITOR AND MAINTAIN EROSION CONTROLS.
- 13. SEED AND MULCH DENUDED AREA PER NCDEQ STABILIZATION REQUIREMENTS.
- 14. WHEN FINE GRADING IS COMPLETED, ALL APPLICABLE EROSION AND SEDIMENT CONTROL MEASURES ARE TO REMAIN AND BE PROPERLY MAINTAINED FOR STAGE 2 OF THE EROSION CONTROL PLANS. COORDINATE WITH EROSION SITE INSPECTOR PRIOR TO THE REMOVAL OF ANY EROSION CONTROL MEASURES.
- 15. UPON COMPLETION AND INSPECTION OF STAGE 1 AND GIVEN APPROVAL FROM EROSION SITE INSPECTOR, THE CONTRACTOR IS TO COMMENCE WITH STAGE 2.
- 16. CONTACT HARNETT COUNTY PRIOR TO MOVING ONTO NEXT PHASE.
- 17. ALL EROSION CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED, IF NEEDED, AT LEAST ONCE PER WEEK AND AFTER EVERY RAINFALL EVENT.
- 18. STABILIZATION IS REQUIRED WITHIN 7 TO 14 CALENDAR DAYS OF COMPLETION OF ANY PHASE OF GRADING OR INACTIVITY ON PROJECT SITE.
- 19. PERMANENT GROUNDCOVER SHALL BE ESTABLISHED IN 90 CALENDAR DAYS.

SELF-INSPECTION FOR EROSION AND SEDIMENTATION CONTROL MEASURES ARE TO BE PERFORMED AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF EVERY RAIN EVENT OF GREATER THAN 1 INCH. ANY NEEDED REPAIRS SHALL BE MADE IMMEDIATELY TO MAINTAIN MEASURES AS DESIGNED. ALL ESC MEASURES SHALL BE MAINTAINED AS SPECIFIED IN THE CONSTRUCTION DETAILS ON THIS PLAN.

NOTE: THE GENERAL CONTRACTOR MAY COMPLETE CONSTRUCTION-RELATED ACTIVITIES CONCURRENTLY, ONLY IF ALL STABILIZATION ACTIVITIES HAVE BEEN COMPLETELY INSTALLED. THE CEC MUST APPROVE, IN WRITING, ANY CHANGES IN THE ABOVE IMPLEMENTATION SEQUENCE, BEFORE THEIR IMPLEMENTATION BEGINS.

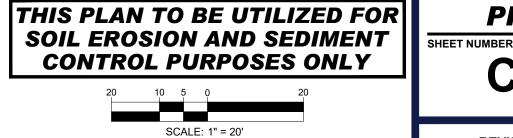
THE ESTIMATED DATES OF IMPLEMENTATION OF POLLUTION CONTROL MEASURES SHALL BE DOCUMENTED BY THE CONTRACTOR.

MAPPED SOIL TYPES						
SOIL TYPE	DESCRIPTION	SOIL GROUP				
CaB CANDOR SAND, 0 TO 8 PERCENT SLOPES A						
AKEN FROM: USDA, NRCS WEB SOIL SURVEY FOR SANFORD, NC.						

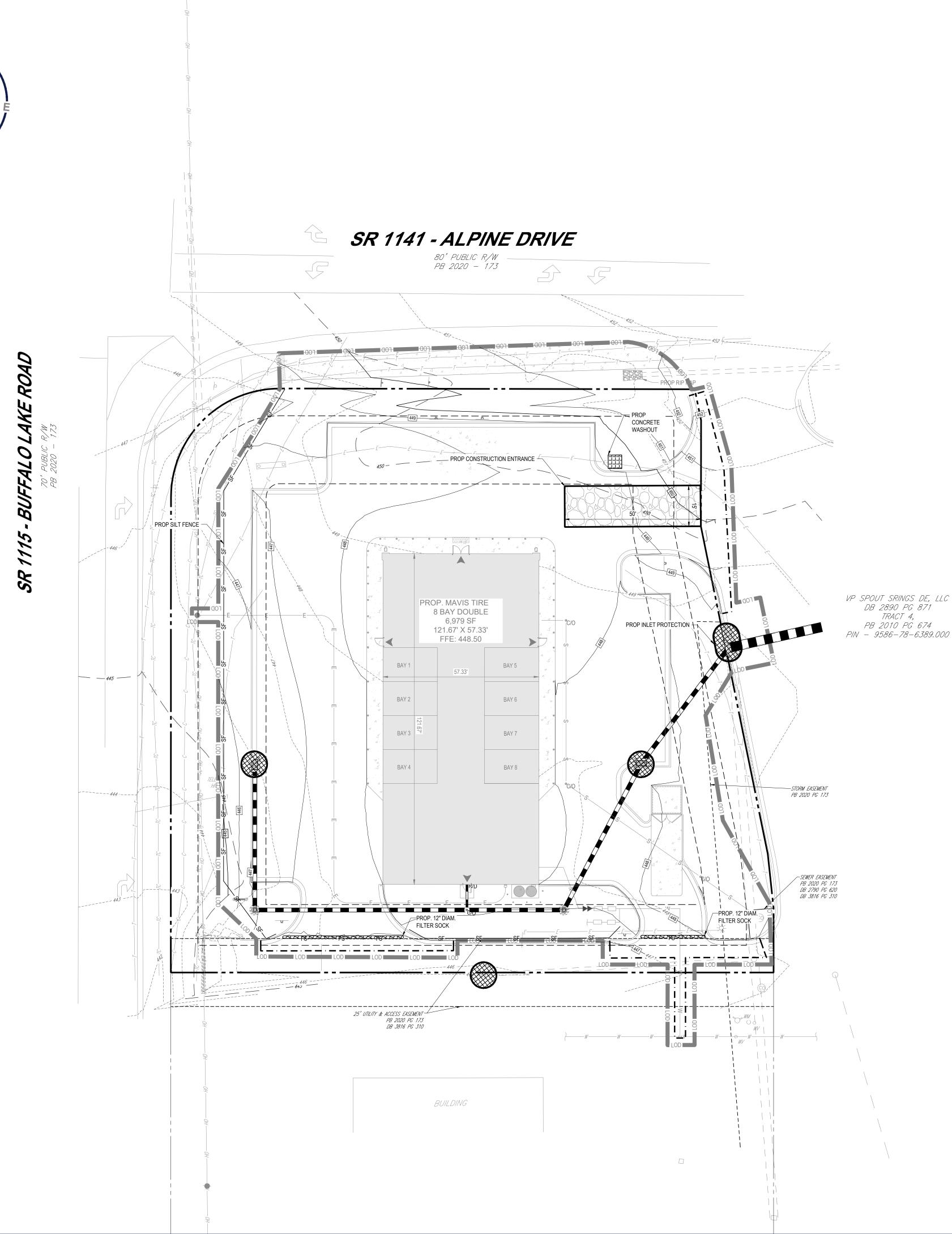


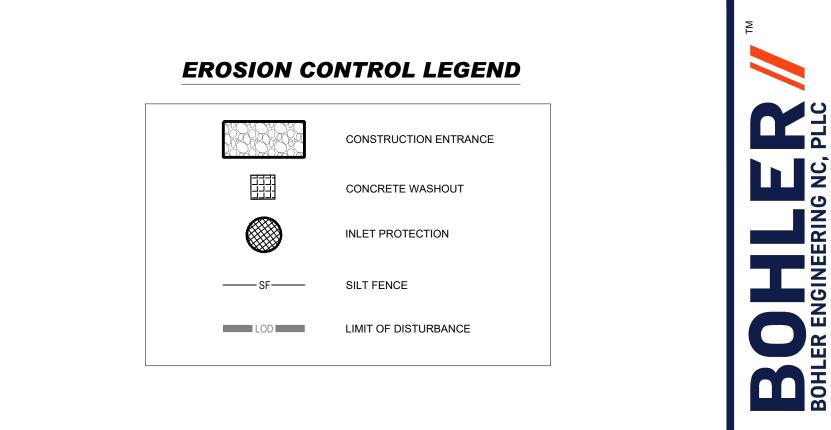
PHASE 1

C-801









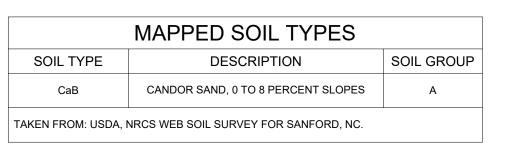
PHASE II EROSION CONTROL CONSTRUCTION SEQUENCE

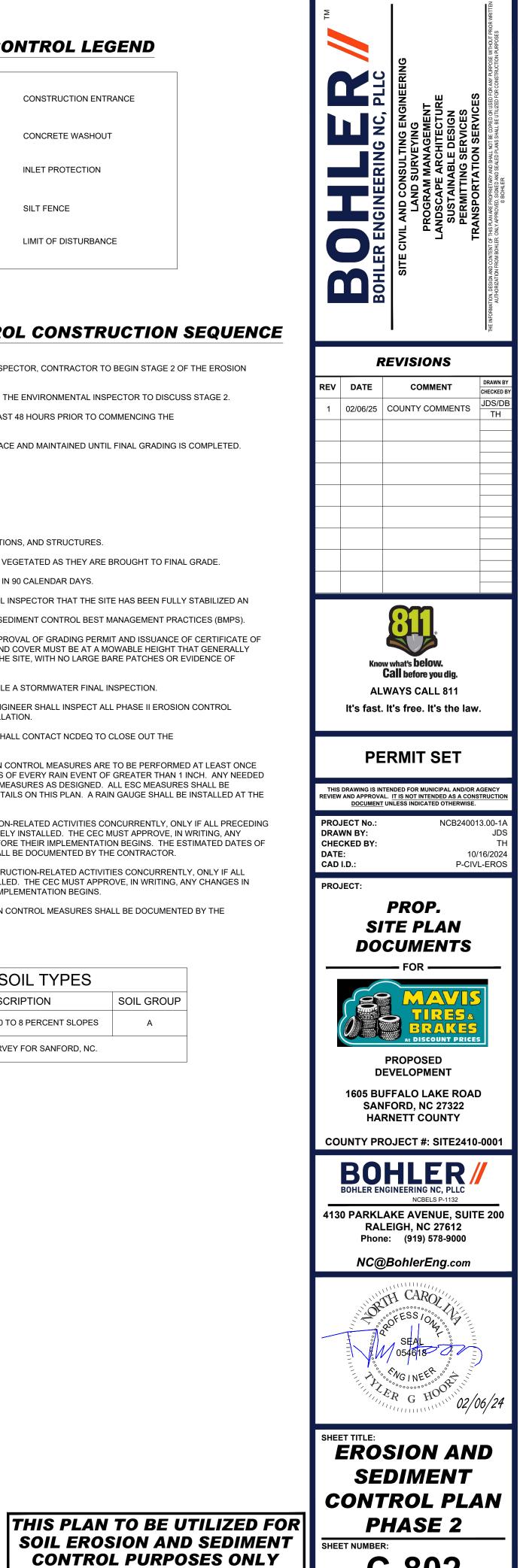
- 1. ONCE GIVEN APPROVAL FROM EROSION CONTROL INSPECTOR, CONTRACTOR TO BEGIN STAGE 2 OF THE EROSION CONTROL PLAN.
- 2. SCHEDULE A PRECONSTRUCTION CONFERENCE WITH THE ENVIRONMENTAL INSPECTOR TO DISCUSS STAGE 2.
- 3. CONTRACTOR TO CONTACT HARNETT COUNTY AT-LEAST 48 HOURS PRIOR TO COMMENCING THE
- LAND-DISTURBING ACTIVITY.
- 4. EROSION CONTROL MEASURES ARE TO REMAIN IN PLACE AND MAINTAINED UNTIL FINAL GRADING IS COMPLETED. 5. INSTALL SILT FENCE.
- 6. FINISH FINE GRADING THE SITE.
- 7. PREPARE SITE FOR PAVING.
- 8. BEGIN PAVING.
- 9. START CONSTRUCTION OF BUILDING SLABS, FOUNDATIONS, AND STRUCTURES.
- 10. IMMEDIATELY PERMANENTLY STABILIZE AREAS TO BE VEGETATED AS THEY ARE BROUGHT TO FINAL GRADE.
- 11. PERMANENT GROUNDCOVER SHALL BE ESTABLISHED IN 90 CALENDAR DAYS.
- 12. OBTAIN CONCURRENCE FROM THE EROSION CONTROL INSPECTOR THAT THE SITE HAS BEEN FULLY STABILIZED AN ALL CONSTRUCTION HAS BEEN COMPLETED, THEN: 12.1. REMOVE ALL REMAINING TEMPORARY EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPS).
- 12.2. SITE STABILIZATION IS REQUIRED PRIOR TO FINAL APPROVAL OF GRADING PERMIT AND ISSUANCE OF CERTIFICATE OF OCCUPANCY. GRASS UTILIZED AS PERMANENT GROUND COVER MUST BE AT A MOWABLE HEIGHT THAT GENERALLY PROVIDES AT LEAST 80% COVERAGE THROUGHOUT THE SITE, WITH NO LARGE BARE PATCHES OR EVIDENCE OF EROSION.
- 13. CONTACT HARNETT COUNTY INSPECTOR TO SCHEDULE A STORMWATER FINAL INSPECTION.
- 14. APPROVED/CERTIFIED INSPECTOR/PROFESSIONAL ENGINEER SHALL INSPECT ALL PHASE II EROSION CONTROL FEATURES WITHIN 7 DAYS OF COMPLETION OF INSTALLATION.
- 15. WHEN THE PROJECT IS COMPLETE, THE PERMITTEE SHALL CONTACT NCDEQ TO CLOSE OUT THE E&SC PLAN.
- 16. SELF-INSPECTION FOR EROSION AND SEDIMENTATION CONTROL MEASURES ARE TO BE PERFORMED AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF EVERY RAIN EVENT OF GREATER THAN 1 INCH. ANY NEEDED REPAIRS SHALL BE MADE IMMEDIATELY TO MAINTAIN MEASURES AS DESIGNED. ALL ESC MEASURES SHALL BE MAINTAINED AS SPECIFIED IN THE CONSTRUCTION DETAILS ON THIS PLAN. A RAIN GAUGE SHALL BE INSTALLED AT THE PROJECT SITE FOR MONITORING.

THE GENERAL CONTRACTOR MAY COMPLETE CONSTRUCTION-RELATED ACTIVITIES CONCURRENTLY, ONLY IF ALL PRECEDING BMPS AND STABILIZATION ACTIVITIES HAVE BEEN COMPLETELY INSTALLED. THE CEC MUST APPROVE, IN WRITING, ANY CHANGES IN THE ABOVE IMPLEMENTATION SEQUENCE, BEFORE THEIR IMPLEMENTATION BEGINS. THE ESTIMATED DATES OF IMPLEMENTATION OF POLLUTION CONTROL MEASURES SHALL BE DOCUMENTED BY THE CONTRACTOR

NOTE: THE GENERAL CONTRACTOR MAY COMPLETE CONSTRUCTION-RELATED ACTIVITIES CONCURRENTLY, ONLY IF ALL STABILIZATION ACTIVITIES HAVE BEEN COMPLETELY INSTALLED. THE CEC MUST APPROVE, IN WRITING, ANY CHANGES IN THE ABOVE IMPLEMENTATION SEQUENCE, BEFORE THEIR IMPLEMENTATION BEGINS.

THE ESTIMATED DATES OF IMPLEMENTATION OF POLLUTION CONTROL MEASURES SHALL BE DOCUMENTED BY THE CONTRACTOR.

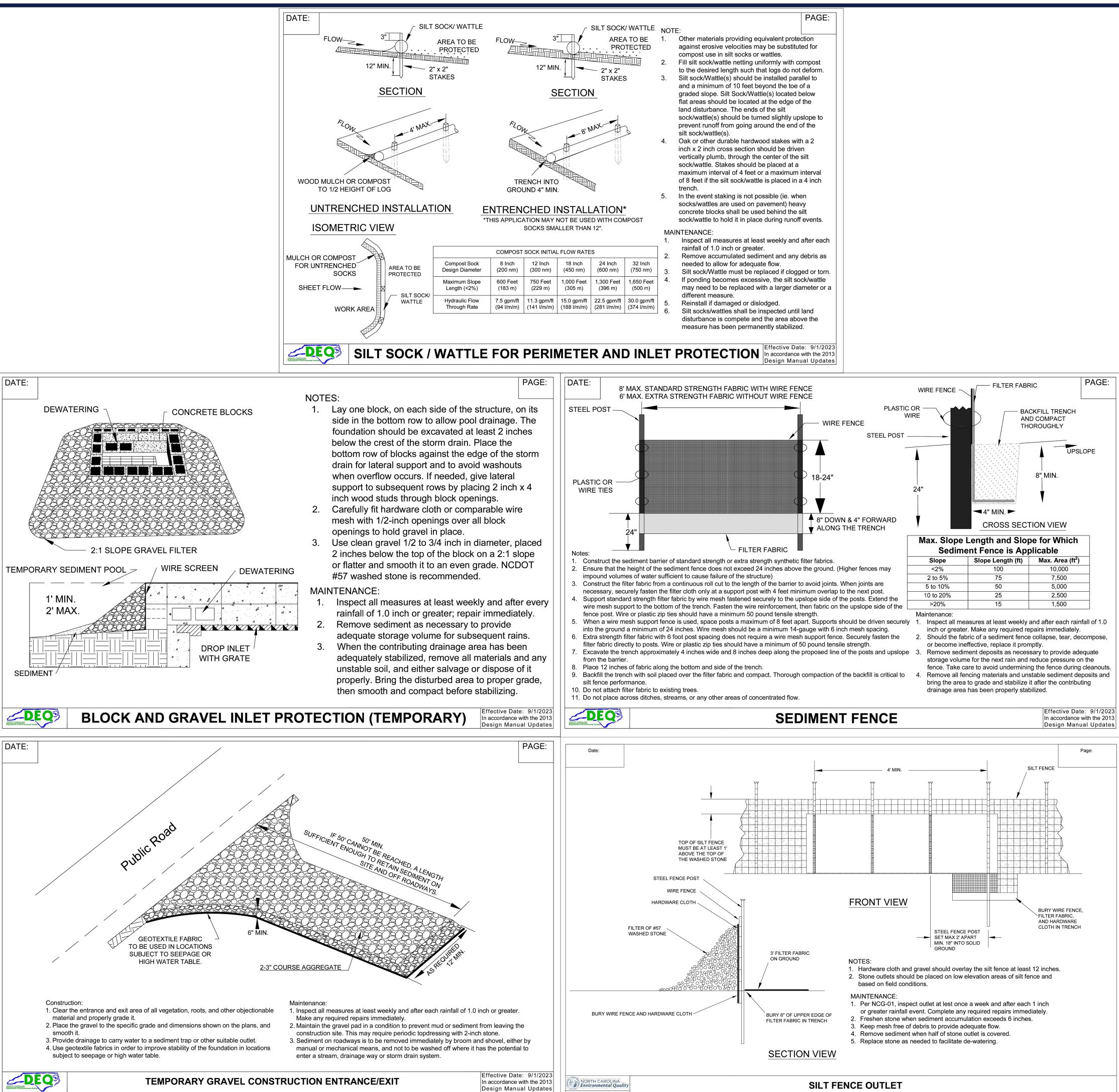




REVISION 1 - 02/06/25

SCALE: 1" = 20'

C-802



BOHLER BOHLER IC PLLC	SITE CIVIL AND CONSULTING ENGINEERING LAND SURVEYING PROGRAM MANAGEMENT LANDSCAPE ARCHITECTURE SUSTAINABLE DESIGN PERMITTING SERVICES TRANSPORTATION SERVICES	THE IN-UMAN TON, DESIGN AND CONTENT OF THIS FLAW ARE: PROFINELARY AND STALE NOT BE COPIELOR USED FOR ANY FOR-COSE WITHOUT PROPOSES AUTHORIZATION FROM BOHLER, ONLY APPROVED SIGNED AND SEALED PLANS SHALL BE UTILIZED FOR CONSTRUCTION PURPOSES © BOHLER				
RE		AWN BY				
REV DATE 1 02/06/25 C		CKED BY DS/DB TH				
Ca Alw	what's below. All before you dig. AYS CALL 811 I's free. It's the law.					
PEF	RMIT SET	٦				
REVIEW AND APPROVAL.	IDED FOR MUNICIPAL AND/OR AGEN IT IS NOT INTENDED AS A CONSTRU ILESS INDICATED OTHERWISE.					
PROJECT No.: DRAWN BY: CHECKED BY: DATE: CAD I.D.:	NCB240013.0 10/16/ P-CIVL-C	JDS TH 2024				
SIT	PROP. TE PLAN CUMENTS					
	FOR MAVIS TIRES & BRAKES At DISCOUNT PRICES					
	ROPOSED					
P DEV 1605 BUF						
P DEV 1605 BUF SANFO HARM	ROPOSED /ELOPMENT FALO LAKE ROAD	001				
P DEV 1605 BUF SANFO HARM COUNTY PRO	ROPOSED /ELOPMENT FALO LAKE ROAD ORD, NC 27322 NETT COUNTY JECT #: SITE2410-00	001				
COUNTY PRO BOOLER ENGINE	ROPOSED /ELOPMENT FALO LAKE ROAD ORD, NC 27322 NETT COUNTY JECT #: SITE2410-00 HEERING NC, PLLC NGBELS P-1132 KE AVENUE, SUITE 2 IGH, NC 27612 (919) 578-9000					
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RET TITLE: SHEET TITLE: SANFA COUNTY PRO BOHLER ENG A130 PARKLAN RALE Phone: DOHLER ENG A130 PARKLAN RALE Phone: COUNTY PRO COUNTY P	ROPOSED /ELOPMENT FALO LAKE ROAD ORD, NC 27322 NETT COUNTY JECT #: SITE2410-00 HEERING NC, PLLC NCBELS P-1132 KE AVENUE, SUITE 2 IGH, NC 27612 (919) 578-9000 BohlerEng.com	200				
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Date:	PAR SELF-INSPECTION, RECORE SECTION B: RE	KEEPING AND REPORTIN	NG		Page:	Date:		DOWN OF SEDIMENT	CTION G, ITEM (4) F BASINS FOR MAINTE	NANCE OR	
Item to Document (a) Each E&SC measure has been installed and does not significantly deviate from the locantions, dimensions and relative elevations shown on the approved E&SC plan	Document Requirements Initial and date each E&SC measure on a copy of the approved E&SC plan or complete, date and sign an inspection report that lists each E&SC measure shown the approved E&SC plan. This documentation is requir upon the initial installation of the E&SC measures are modified after initial installation.	on ed E&SC plan must be pertaining to the E& normal business ho 2. Additional Docum In addition to the	C plan as well as any approved deviation e kept up-to-date throughout the coverage SC plan shall be kept on site and availaburs. entation to be Kept on Site E&SC plan documents above, the follo	age under this permit. The lable for inspection at all owing items shall be kep	e following items times during on the		one acre the surfa maintena circumst surface s weather	t basins and traps that or more shall use outle ce when these devices ince or close out unles ances in which it is not shall be rare (for examp . Non-surface withdraw	OSE OUT receive runoff from drain et structures that withdraw a need to be drawn down s this is infeasible. The feasible to withdraw wate ole, times with extended of wals from sediment basin	w water from for er from the cold hs shall be	Inspect (during no business (1) Rain gauge maintained in
(b) A phase of grading has been completed	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate completion of the construction phase.		e for inspectors at all times during norma a site-specific exemption based on uni not practical:				allowed	only when all of the foll	owing criteria have been has been provided with	met:	good working order
 (c) Ground cover is located and installed in accordance with the approved E&SC plan. (d) the maintenance and repair requirements for all E&SC measures have been performed. (e) Corrective actions have been taken to E&SC measures. 	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications. Complete, date and sign an inspection report Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate	(b) Records of in the required inspection fo in lieu of the as the hard-	I Permit as well as the Certificate of Counspections made during the previous two observations on the Inspection Record form that includes all the required element required paper copies will be allowed if copy records. be Retained for Three Years	welve months. The perm d Form provided by the D ents. Use of electronical	ittee shall record ivision or a similar γ-available records		docume periods withdrav approve (b) Th anticipat	ntation of the non-surfa or conditions in which it val shall not commence d these items, ne non-surface withdraw	ice withdrawal and the sp t will occur. The non-sur e until the E&SC plan aut wal has been reported as ce with Part III, Section C	becific time face hority has s an	(2) E&SC Measures At least of calendar of within 24 a rain even inch in 24
	completion of the corrective action PART III	All data used to d	complete the e-NOI and all inspection re ter project completion and made availab		·		(c) De discharg sedimer	ewatering discharges a es of pollutants from s t basin. Examples of a	re treated with controls to tormwater that is remove appropriate controls inclu	d from the de properly	(3) Stormwater At least of discharge calendar of outfalls(SDOs) within 24
	SELF-INSPECTION, RECORDKEEP <u>SECTION C: REPOI</u>						filtration	systems,	I dewatering tanks, weir t of the sites or a properly		a rain eve inch in 24
 Occurrences that Must be Reported Permittees shall report the following occurrence (a) Visible sediment deposition in a stream of (b) Oil spills if: They are 25 gallons or more, They are less than 25 gallons but cannot They cause sheen on surface waters (reg 	r wetland. be cleaned up within 24 hours, gardless of volume), or	Occurrence (a) Visible sediment deposition in a stream or wetland	 Reporting Timeframe (After D Within 24 hours, an oral or electronic n Within 7 Calendar Days, a report that c actions taken to address the cause of the requirement for a written report on a ca If the stream is named on the NC 303(c the permittee may be required to perfor more stringent practices if staff determinas assure compliance with the federal or s 	notification. contains a description of t the deposition. Division st ase-by-case basis. (d) list as impaired for sed orm additional monitoring, ine that additional require	ne sediment and aff may waive the iment-related caused, inspections or apply ments are needed to		dewater (e) Vo traps, ar dewater (f) So describe	ng treatment devices of elocity dissipation device ad riprap are provided a ng devices, and ediment removed from d in Item (c) above is o	feasible at the outlet of t lescribed in Item (c) above ces such as check dams, at the discharge points of the dewatering treatment lisposed of in a manner t hto waters of the United S	ve, sediment fall t devices hat does not	(4) Perimeter of SiteAt least of calendar of within 24 a rain ever inch in 24(5) Streams or wetlandsAt least of calendar of of calendar of of calendar of of calendar of of
of the Clean Water Act (Ref: 40 CFR 110 (Ref: 40 CFR 302.4) or G.S. 143-215.85. (d) Anticipated bypasses and unanticipated b	cess of reportable quantities under Section 311 .3 and 40 CFR 117.3) or Section 102 of CERCLA bypasses.	 (b) Oil spills and release of hazardous substances per item 1(b)-(c) above (c) Anticipated bypasses [40 CFR 122.41(m)(3)] (d) Unanticipated 	 Within 24 Hours, an oral or electronic n information about the date, time, nature A report at least ten days before the da include an evaluation of the anticipated Within 24 Hours, an oral or electronic n 	notification. The notificatio e, volume and location of ate of the bypass, if possil d quality and effect of the l	n shall include the spill or release ole. The report shall		SEL <u>SECTIO</u>	P -INSPECTION, RECO N A: SELF-INSPECTION	ART III DRDKEEPING AND REP	ORTING	onsite or offsite (where accessible)within 24 a rain eve inch in 24(6) Ground StabilizationAfter each of grading
2. Reporting Timeframes and Other Requiren After a permittee becomes aware of an or appropriate Division regional office within requirements listed below. Occurrences of	s permit that may endanger health or the environment. nents ccurrence that must be reported, he shall contact the the timeframes and in accordance with the other putside normal business hours may also be reported gency Center personnel at (800) 858-0368.	bypasses [40 CFR 122.41(m)(3)] (e) Noncompliance with the conditions of this permit that may endanger health or the environment [40 CFR 122.41(I)(7)]	 Within 7 calendar days, a report that in of the bypass. Within 24 Hours, an oral or electronic Within 7 calendar days, a report that of and its causes; the period of noncomp the noncompliance has not been correct expected to continue; and steps taken 	ncludes an evaluation of the c notification contains a description of t pliance, including exact da rected, the anticipated time	he noncompliance, ates and times, and if e noncompliance is		accorda condition in jeopa day on v a storm normal b	nce with the table below as would cause the safe dy, the inspection may which it is safe to perfor event of equal to or gre usiness hours, the self	w. When adverse weather ety of the inspection pers be delayed until the nex m the inspection. In add eater than 1.0 inch occurs finspection shall be perfo	er or site connel to be t business lition, when s outside of ormed upon	Measures NOTE: The rain in
			 reoccurrence of the noncompliance. [4 Division staff may waive the requirements basis. 		a case-by-case		inspection See Self	ons were delayed shall Inspection Timeframes	business day. Any time be noted in the Inspectio table to the right for guidel uired aspects of records.	on Record.	
NORTH CAROLINA Environmental Quality FFECTIVE DATE: 11/12/2020	NCG-01	RECORDKE	EPING AND REP	ORTING		E	NORTH CAROLIN Environmental Q TIVE DATE:11/12	uality			NCG-01
Date:	NON-INVASIVE PERMAN RECOMMENDATION				Page:	Date	e:				
NON-INVASIVE PERMANENT SEED RECOMMENDATIONS FOR SUMM SEEDING MIXTURE	Indian Grass 5-7 lbs ING Big Bluestem 5-7 lbs	5 lbs/acre* s/acre* s/acre* 5 lbs/acre*	RECOMMEN		FE }	Se	FOR LATE V eding Mix Species Rye (grain) Annual lespe	deza (Kobe in	RLY SPRING Rate (Ib/acre) 120 50	Seedin Speci Germar	•
Species Rate Indian Woodoats 1.5-2.5 lbs/ Virginia Wild Rye 4-6 lbs/acr	e* Control Planning and Design Ma	Erosion and Sedime	nt *Depending upon mix w 6.11.d from Chapter 6 or Control Planning and De	of the NC Erosion a			Korean in N hit annual lesp	nd Coastal Plain lountains) edeza when dura is not to extend	ation of	small-ste substitut Seeding	emmed Sudangrass r ed at a rate of 50 lb/a j Dates
*Depending upon mix with other spec See table 6.11.d from Chapter 6 of th Erosion and Sediment Control Plann and Design Manual. Seeding Dates Mountains - July 15- Aug 15	ne NC Mountains - Hard Fescue- Aug	Grass, Big Bluestem- rass, Indian Grass, B	Coastal and Piedmont for	or Indian Woodoat	s and Virginia	Mor Pie Coa Mu l	Bel dmont—Jan. astal Plain—I Ich	Dec. 1 - Apr. 15	b. 1- May 1	Piedmor Coastal Mulch Apply 4,0 by tackin	ns—May 15 - Aug. 15 nt—May 1 - Aug. 15 Plain—Apr. 15 - Aug 000 lb/acre straw. An ng with asphalt, nettin
Piedmont - Aug 15 - Oct 15 Maintenance: Indian Woodoats and Virginia Wild R are both sun and shade tolerant.	Sept 1 - Nov 1 Maintenance: Hard Fescue is not recommende Prefers shade.	ed for slopes > 5%.	Maintenance: Significant maintenance desired cover once cent sodding.		I	tack anc stra Mai	king with aspl choring tool. A aight can be u intenance	cre straw. Anchor halt, netting, or a r disk with blades sed as a mulch an wth is not fully ade	nulch set nearly nchoring tool.	set nearl mulch ar Mainten Refertiliz	nchoring tool. A disk w y straight can be use nchoring tool. a ance ze if growth is not fully refertilize and mulch
coarse-textured soils and 2-3 tons/ac higher need not be limed.	recommendations. If the pH (acidity) of the soil cre on fine-textured soils is usually sufficient. Ap	oply limestone uniformly	and incorporate into the top 4-6 in	nches of soil. Soils wit	h a pH of 6 or	Res	seed, refertiliz	e and mulch imm or other damage	ediately	11 .	g erosion or other dar
into the top 4-6 inches of soil. If a hyd SURFACE ROUGHENING- If recent tillag surface to become sealed or crusted surface with a loosen uniformly fine t after finished grades are obtained an NOTES:	oil tests. When these are not possible, apply a draulic seeder is used, do not mix seed and fert je operations have resulted in a loose surface a , loosen it just prior to seeding by raking, harrow exture. All ridges and depressions shall be rem ad seedbed preparation is completed.	tilizer more than 30 minu additional roughening ma wing, or other suitable m loved and filled to provid	ites before application. ay not be required, except to break ethods for fine grading. The finishe e the approved surface drainage. I	k up large clods. If rain ed grade shall be a si Planting is to be done	nfall causes the mooth even soil	FER	coarse-textured higher need not RTILIZER- Base the top 4-6 inch RFACE ROUGHI	soils and 2-3 tons/ac be limed. application rates on so es of soil. If a hydraul ENING- If recent tillage	re on fine-textured soils oil tests. When these are ic seeder is used, do no e operations have result	pH (acidity) of is usually suf of not possible of mix seed an ted in a loose	ED BED PREPARAT of the soil is not known, an ficient. Apply limestone un , apply a 10-10-10 grade f d fertilizer more than 30 m surface additional roughe
 A North Carolina Department of Agr Use a seeding mix that will produce in lieu of nurse crops. Mat, tack or co of at least 80%. 	iculture soils test (or equal) is highly recomment fast growing nurse crops and includes non-inva- rimp mulch, as needed to stabilize seeded area	nded to be obtained for a asive species that will ev as until root establishmer	Ill areas to be seeded, sprigged, so rentually provide a permanent grount. Mulch must be applied uniformly	odded or planted. undcover. Soil blanke			surface with a lo	osen uniformly fine te		pressions sha	ng, harrowing, or other sui all be removed and filled to
4. Ground cover shall be maintained u NORTH CAROLINA Environmental Quality EFFECTIVE DATE: 11/12/2020	ntil permanent vegetation is established and sta PERMAN			DATIONS]	E	NORTH CAROLIN Environmental Q FIVE DATE: 11/12/	uality		TEM	PORARY SE

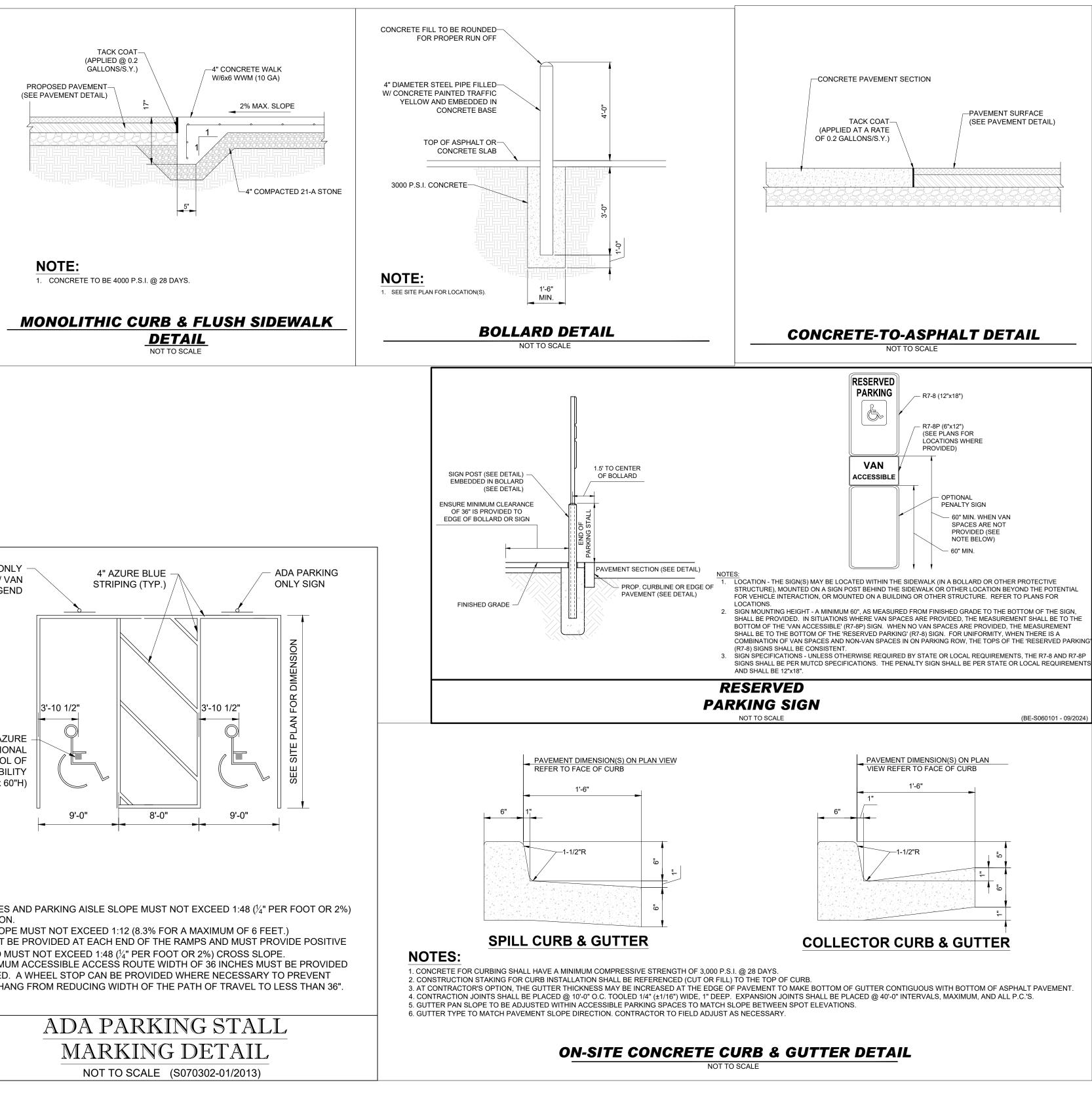
		Page:
cy normal	Self Inspection Timeframes Inspection records must include:	
s hours)	Daily rainfall amounts. If no daily rain gauge observations are made during weekend on holida periods, and no individual-day rainfall information is available, record the cumulative rain measurement for those unattended days (this will deter a site inspection is needed). days on which no rainfall occurred shall be recorded as "Zero." The permittee may use another rain-monitoring dev approved by the Division.	he mine if
once per 7 r days and 4 hours of ⁄ent ≥ 1.0 4 hours	 Identification of the measures inspected Date and Time of the inspection Name of the person performing the inspection Indication of whether the measures were operating properly Description of maintenance needs for the measure Description, Evidence, and date of corrective actions taken 	
once per 7 r days and 4 hours of /ent ≥ 1.0 4 hours	 Identification of the discharge outfalls inspected Date and Time of the inspection Name of the person performing the inspection Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration Indication of visible sediment leaving the site Description, Evidence, and date corrective actions taken 	
once per 7 r days and 4 hours of ⁄ent ≥ 1.0 4 hours	 If visible Sedimentation is found outside site limits, then record of the forshall be made: 1) Actions taken to clean up or stabilize sediment that has left the site 2) Description, Evidence and date of corrective actions taken 3) An explanation as to the actions taken to control future releases 	Ũ
once per 7 r days and 4 hours of ⁄ent ≥ 1.0 4 hours	If the stream or wetland has increased visible sedimentation or has visi increased turbidity from the construction activity, then a record of the for shall be made: 1) Description, Evidence and date of corrective actions taken 2)Records of required reports to the appropriate Division Regional Offi Part III, Section C, Item(2)(a) of this permit	ollowing
ch phase ng	 The phase of grading (installation of perimeter E&SC measures, clear and grubbing, installation of storm drainage facilities, completion of a land-disturbing activity, construction or redevelopment, permanent gr cover) Documentation that the required ground stabilization measures have provided within the required timeframe or assurance that they will be provided as soon as possible 	nll round been
nspection	resets the required 7 calendar day inspection requirement.	I

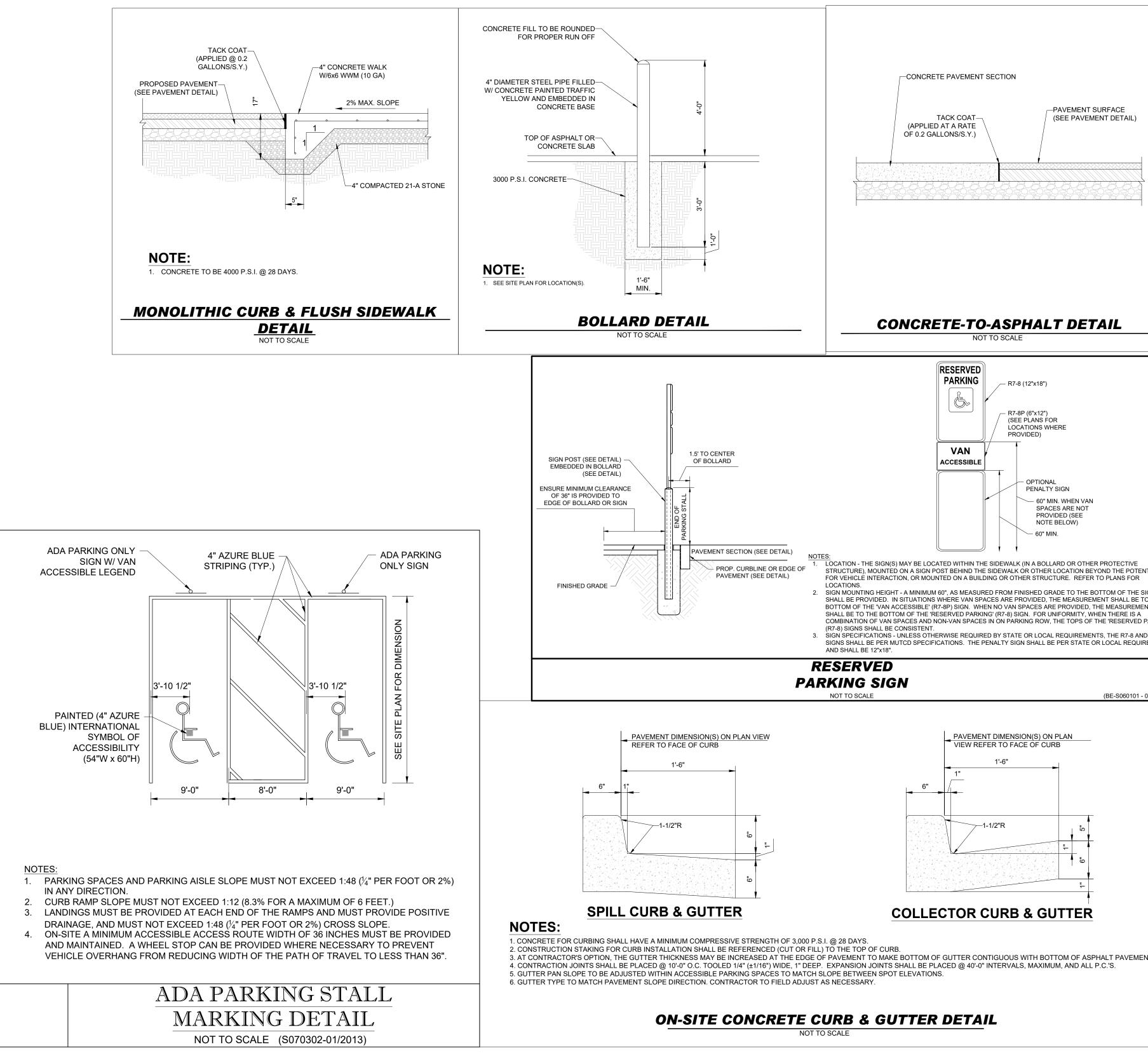
SELF INSPECTION

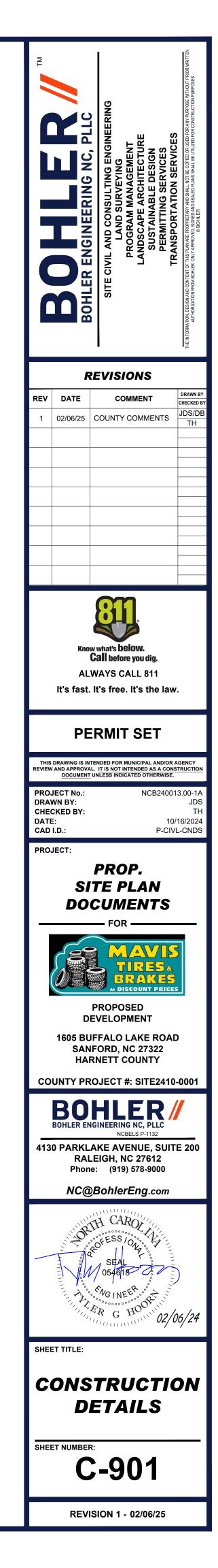
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DING	TEMPC	DRARY SEEDI	NG					
OR SUMMER		NDATIONS FC	OR FALL					
	Seeding Mixtu	re						
/acre)	Species	Rate (Ib/a	icre)					
	Rye (grain)	120						
ns, a may be	Seeding Dates	5 Dog 15						
may be acre.	Mountains—Aug. 1 Coastal Plain and F		15 - Dec 31					
	Mulch							
5	Apply 4,000 lb/acre	straw. Anchor	straw by					
45	tacking with asphalt	, netting, or a r	nulch					
. 15	anchoring tool. A dis		-					
nchor straw	straight can be used	as a muich ai	nchoring tool.					
ng, or a	Repair and refertiliz	e damaged are	eas					
with blades	immediately. Topdre	•						
ed as a	in March. If it is nec	•						
	cover beyond June							
y adequate.	Kobe (Piedmont and (Mountains) lespede		,					
immediately	March.		ruary of early					
mage.								
TION:	und agricultural limestana	at the rate of 1 to 1	1 ¹ tono (ooro on					
	und agricultural limestone a orate into the top 4-6 inche							
fertilizer at 700-1 00	00 lb/acre. Both fertilizer a	nd lime should be	incorporated into					
ninutes before appl	ertilizer at 700-1,000 lb/acre. Both fertilizer and lime should be incorporated into ninutes before application.							
• •	ning may not be required, except to break up large clods. If rainfall causes the table methods for fine grading. The finished grade shall be a smooth even soil							
	oved surface drainage. Pla	-						

EEDING RECOMMENDATIONS

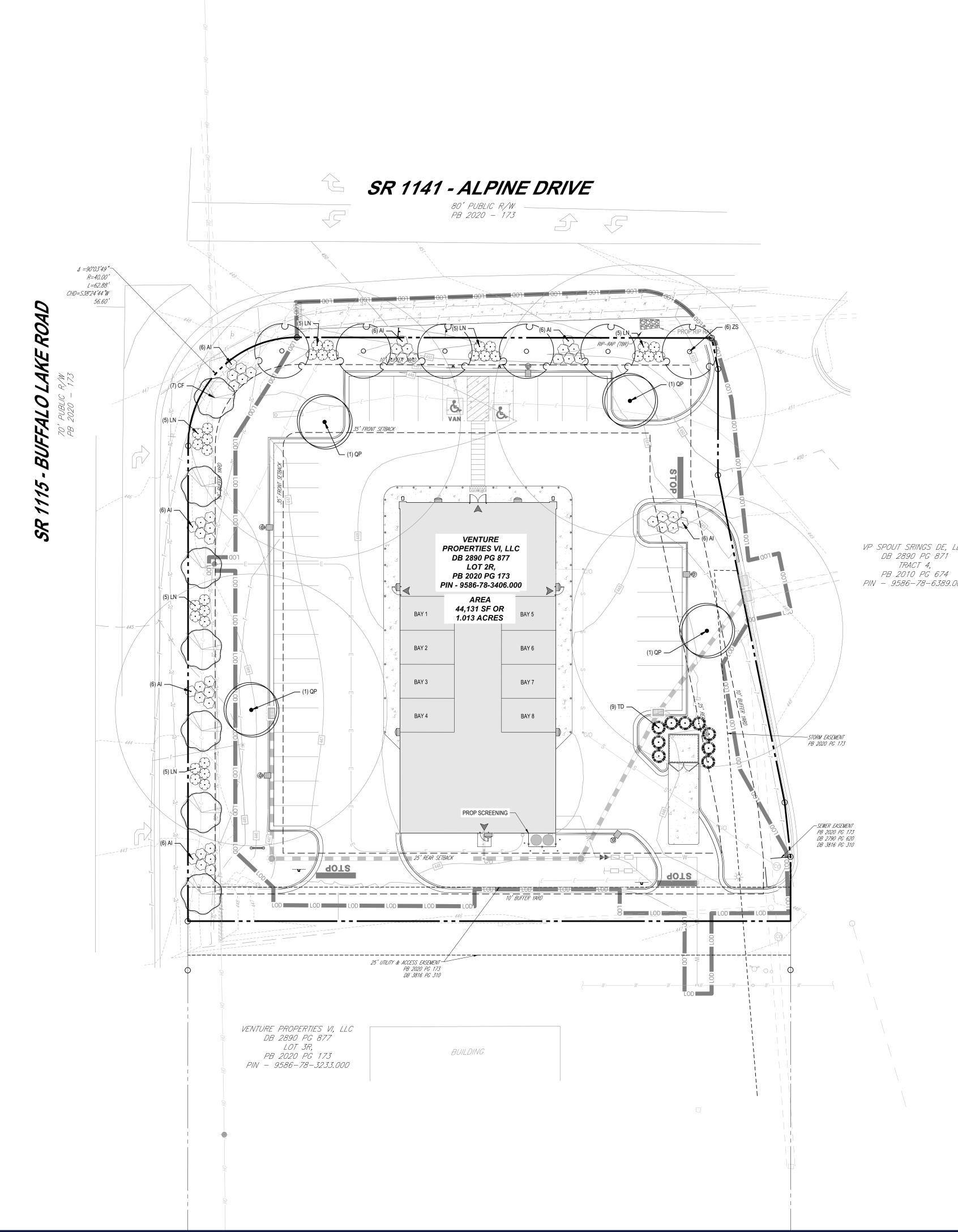
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	AL It's fast.	w what's below. Call before you dig. WAYS CALL 811 It's free. It's the law.		
	PE	RMIT SET		
	AND APPROVA	TENDED FOR MUNICIPAL AND/OR AGENCY IL. IT IS NOT INTENDED AS A CONSTRUCTION UNLESS INDICATED OTHERWISE.		
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DATE CAD		10/16/2024 P-CIVL-CNDS		
PRO.	DO	PROP. TE PLAN CUMENTS FOR FOR		
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со	HA	RNETT COUNTY		
413	0 PARKL	IGINEERING NC, PLLC NCBELS P-1132 AKE AVENUE, SUITE 200		
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NC@BohlerEng.com				
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VP SPOUT SRINGS DE, LLC PIN – 9586–78–6389.000

SYMBOL

LIST. SEEDING.

	LANDSCAPE COMPLIANCI	E CHART	T	
SECTION	REQUIREMENT	PROVIDED		
ARTICLE VII SECTION 3.3.3 - VEHICLE JSE AREA PLANTING	A. ALL PARKING SPACES SHALL BE WITHIN 50 FEET OF A TREE TRUNK.	ALL PARKING SPACES ARE WITHIN 50 FT OF TREE))
ARTICLE VII SECTION 9.1.3 - MINIMUM STANDARDS FOR NSTALLATION	 A. ALL REQUIRED LARGE MATURING TREES SHALL HAVE A MINIMUM CALIPER OF TWO (2) INCHESOR A MINIMUM HEIGHT OF SIX (6) FEET AT THE TIME OF PLANTING. B. ALL REQUIRED MEDIUM AND SMALL/ORNAMENTAL TREES SHALL HAVE A MINIMUM HEIGHT OF SIX (6) FEET AT THE TIME OF PLANTING. C. SHRUBS SHALL BE A MINIMUM OF TWO (2) FEET IN HEIGHT AT TIME OF PLANTING. 	ALL PLANTS ARE SPECIFIED AT REQUIRED SIZES		
ARTICLE VII SECTION 9.1.8 - REQUIRED BUFFER & SCREENING TYPES	A. ALL BUFFER TYPES SHALL INCLUDE: 1. A STAGGERED ROW OF LARGE MATURING TREES, SPACED NOT MORE THAN 30 FEET APART; AND 2. LOW-GROWING EVERGREEN SHRUBS, EVERGREEN GROUND COVER, OR MULCH COVERING THE BALANCE OF THE BUFFER AREA. D. TYPE C BUFFER 1. MINIMUM WIDTH OF 10 FEET (APPLIES TO AREA BETWEEN RIGHT-OF-WAY AND BUILDING FRONT) 2. FIVE (5) LOW GROWING SHRUBS FOR EVERY REQUIRED LARGE MATURING TREE. SHRUBS: 13 TREES X 5 = 65 SHRUBS REQUIRED	6 LARGE MATURING TREES AND 7 SMALL MATURING TREES (WHERE OVERHEAD LINES ARE PRESENT) PROVIDED IN BUFFER SPACED 30 FT OC. 72 SHRUBS PROVIDED		r
	ALL TRASH CONTAINMENT DEVICES, INCLUDING COMPACTORS		REV	DA
ARTICLE VII SECTION 9.2.3 - TRASH CONTAINMENT AREAS SCREENING	AND DUMPSTERS, SHALL BE LOCATED AND DESIGNED SO AS NOT TO BE VISIBLE FROM THE VIEW OF ADJACENT RIGHT(S)-OF-WAY AND PROPERTIES. THE TYPE OF SCREENING USED SHALL BE A CONTINUOUS ROW OF LARGE MATURING EVERGREEN TREES.	EVERGREEN SCREENING IS PROVIDED FOR TRASH		02/0

PLANT	SCHE	DUL	E	I			
SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	
	1		SMALL MATURIN	IG TREES			
\bigcirc	CF	7	CORNUS FLORIDA	FLOWERING DOGWOOD	2" CAL, 6` MIN HT.	B&B	
EVERGREEN TREES							
	TD	9	THUJA OCCIDENTALIS 'EMERALD GREEN'	EMERALD GREEN ARBORVITAE	6` HT.	B&B	
				IG TREES			
\bigcirc	QP	4	QUERCUS PHELLOS	WILLOW OAK	3" CAL., 6' MIN HT.	B&B	
	zs	6	ZELKOVA SERRATA	JAPANESE ZELKOVA	3" CAL., 6' MIN HT.	B&B	
SHRUBS							
	AI	42	AZALEA INDICA 'ALASKA'	ALASKA INDICA AZALEA	2` HT.	CONTAINER	
$\widetilde{\bigcirc}$	LN	30	LOROPETALUM CHINENSE RUBRUM 'SHANG-RED'	RED DIAMOND™ FRINGE FLOWER	1.5` HT.	CONTAINER	

PLANTING NOTES:

1. ALL LANDSCAPE AREAS ARE TO RECEIVE A MINIMUM OF 4" OF TOPSOIL. 2. ALL PLANT MATERIAL SHALL BE HEALTHY, VIGOROUS, AND FREE OF PEST AND DISEASE. 3. ALL PLANT MATERIAL SHALL BE CONTAINER GROWN OR BALLED & BURLAPPED AS INDICATED IN THE PLANT 4. ALL LAWN AREAS SHALL BE SEEDED WITH LOCALLY GROWN FESCUE SEED MIX MEETING THE LATEST NORTH

CAROLINA DEPT. OF AGRICULTURE STANDARD FOR SEED AND PLANT CERTIFICATION. CONSULT LOCAL N.C.S.U AGRICULTURAL EXTENSION OFFICE FOR PROPER FERTILIZER AND LIME APPLICATION RATES FOR LAWN

5. ALL TREES SHALL TRUNK, FULL HEAD, AND MEET ALL REQUIREMENTS SPECIFIED. 6. ALL MATERIALS ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT BEFORE, DURING, AND AFTER INSTALLATION. ALL TREES MUST BE GUYED OR STAKED AS SHOWN IN THE DETAILS.
 PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND

UTILITIES AND SHALL AVOID DAMAGE TO ALL UTILITIES DURING THE COURSE OF WORK. LOCATIONS OF EXISTING BURIED UTILITY LINES SHOWN OF THE PLANS ARE BASE UPON BEST AVAILABLE INFORMATION AND ARE TO BE CONSIDERED APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR 1) TO VERIFY THE LOCATION OF UTILITY LINES ADJACENT TO THE WORK AREA 2) TO PROTECT ALL UTILITY LINES DURING THE CONSTRUCTION PERIOD 3) TO REPAIR ANY AND ALL DAMAGE TO UTILITIES, STRUCTURES, SITE APPURTENANCES, ETC.

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON THESE PLAN BEFORE PRICING THE WORK. 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DELIVERY SCHEDULE AND PROTECTION BETWEEN

DELIVERY AND PLANTING PER SPECIFICATIONS TO MAINTAIN HEALTHY PLANT CONDITIONS. 11. THE CONTRACTOR SHALL COMPLETELY GUARANTEE AND BE RESPONSIBLE FOR FULLY MAINTAINING (INCLUDING BUT NO LIMITED TO: WATERING, SPRAYING, MULCHING, FERTILIZING, ETC.) ALL OF THE PLANT MATERIALS AND LAWN FOR A ONE YEAR GROWING PERIOD.

12. ANY PLANT MATERIAL WHICH IS DISEASED, DISTRESSED, DEAD, OR REJECTED (PRIOR TO SUBSTANTIAL COMPLETION) SHALL BE PROMPTLY REMOVED FROM THE SITE AND REPLACED WITH MATERIAL OF THE SAME SPECIES, QUANTITY, AND SIZE WHILE MEETING ALL PLANT SCHEDULE SPECIFICATIONS. 13. STANDARDS SET FORTH IN THE "AMERICAN STANDARD FOR NURSERY STOCK" REPRESENT GUIDELINE

SPECIFICATIONS ONLY AND SHALL CONSTITUTES MINIMUM QUALITY REQUIREMENT FOR PLANT MATERIAL. 14. WHERE SHOWN ON THE PLANS AND DETAILS, PLANTING BEDS ARE TO BE COMPLETELY COVERED WITH A MINIMUM 4" DEPTH OF TRIPLE SHRED HARDWOOD MULCH FROM A LOCAL MULCH SOURCE HARVESTED IN A SUSTAINABLE MANNER.

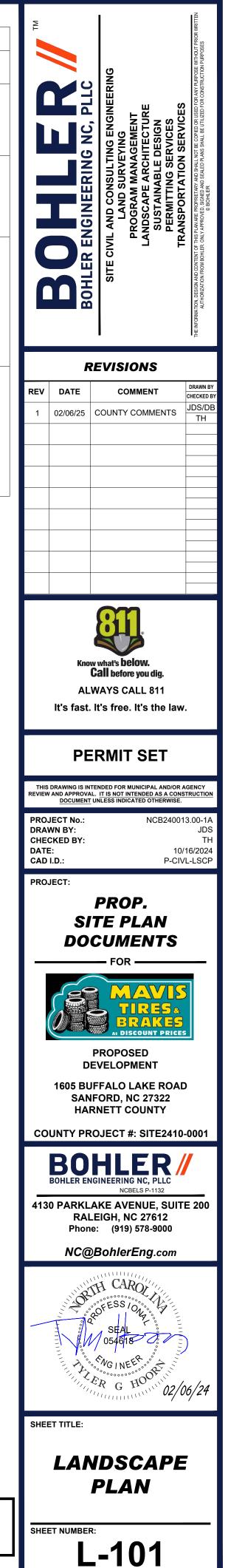
15. ALL LANDSCAPING SHALL AVOID CONFLICT WITH UNDERGROUND STORMWATER MANAGEMENT MEASURES. 16. ALL TRANSFORMERS AND AIR HANDLERS TO BE SCREENED WITH SHAMROCK INKBERRY HOLLY AND DWARF BURFORD HOLLY. ALTERNATE SPECIES BETWEEN DIFFERENT UNITS.

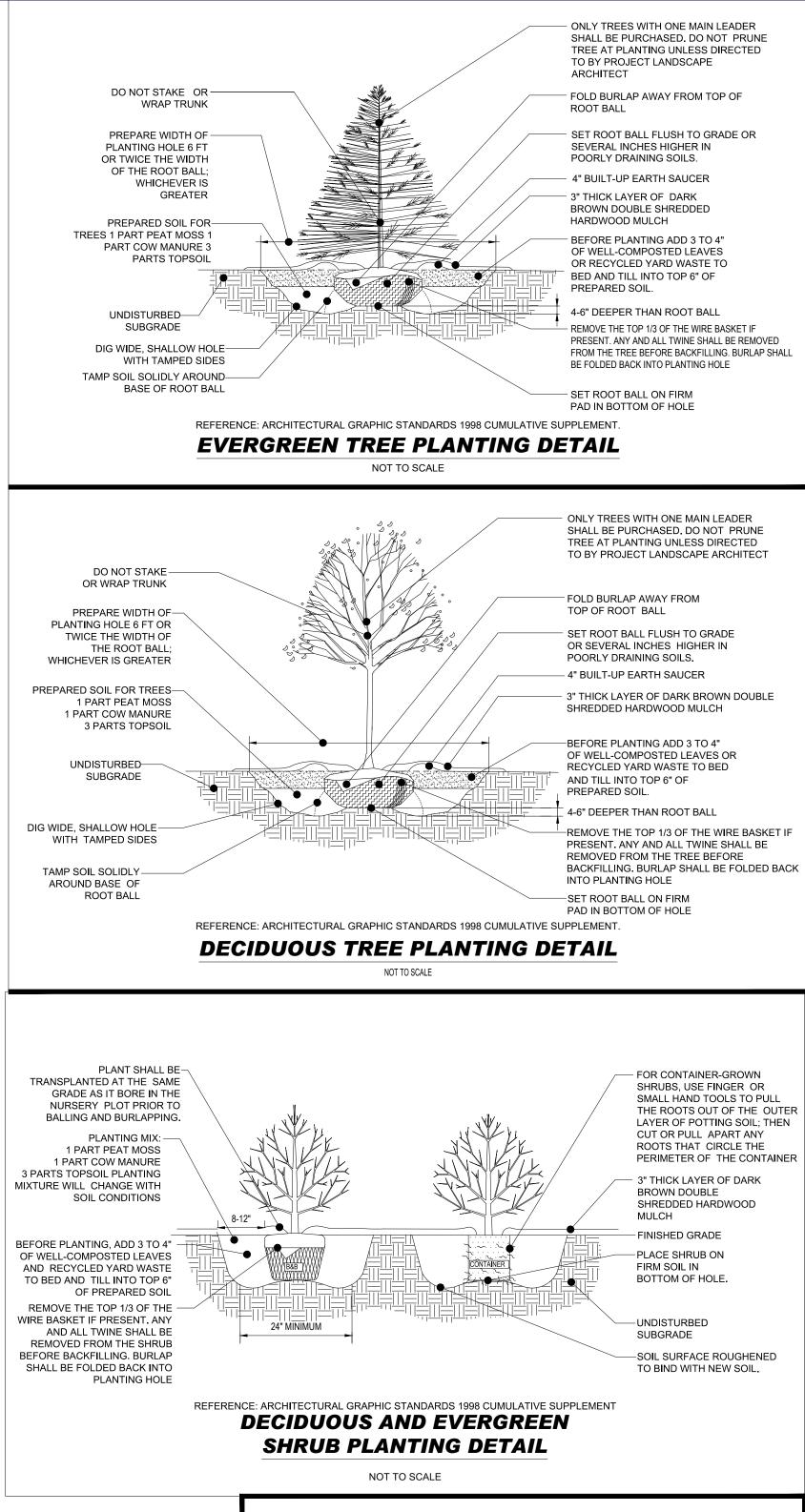
> THIS PLAN TO BE UTILIZED FOR LANDSCAPE

PURPOSES ONLY

SCALE: 1" = 20'

10 5 0





OWNER MAINTENANCE RESPONSIBILITIES

- FULLY RESPONSIBLE FOR ALL FUTURE MAINTENANCE, CARE, UPKEEP, WATERING, AND TRIMMING OF ALL INSTALLED VEGETATION, PLANTS, TREE, BUSHES, SHRUBS, GRASSES, GRASS, ORNAMENTAL PLANTS AND FLOWERS, FLOWERS, GROUND COVER, AND LANDSCAPING, INCLUDING ALL LANDSCAPE ISLANDS AND AREAS ADJACENT OR PART OF THE LANDSCAPED AREAS. THIS RESPONSIBILITY INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING.
- TREES ADJACENT TO WALKWAYS AND AREAS OF PEDESTRIAN TRAFFIC MUST BE MAINTAINED TO ASSURE THAT ANY BRANCHES MUST BE LIMBED UP TO A CLEARANCE HEIGHT OF 7 FT. (FROM ALL PEDESTRIAN SURFACES) OR PRUNED BACK TO AVOID ANY INTERFERENCE WITH THE TYPICAL PATH OF TRAVEL
- TREES WITHIN VEHICULAR SIGHT LINES, AS ILLUSTRATED ON THE LANDSCAPE PLAN, ARE TO BE TRIMMED TO A CLEARANCE HEIGHT OF 7 FT. (FROM ALL PAVED, TRAVELED SURFACES), OR AS OTHERWISE INDICATED ON THE PLANS
- VEGETATIVE GROUND COVER, SHRUBS AND ORNAMENTAL PLANTS AND GRASSES MUST BE TRIMMED SO THAT NO PORTION OF THE PLANT EXCEEDS 30 INCHES ABOVE GRADE (OF ALL PAVED, TRAVEL SURFACES) ALONG AND WITHIN THE SIGHT LINES OF PARKING LOTS AND INGRESS-EGRESS WAYS. FALLEN PLANT FLOWERS, FRUIT, SEEDS AND DEBRIS DROPPINGS ARE TO BE REMOVED IMMEDIATELY
- FROM VEHICULAR AND PEDESTRIAN TRAFFIC AREAS TO PREVENT TRIPPING, SLIPPING OR ANY OTHER HAZARDS
- THESE REQUIREMENTS DO NOT AFFECT THE PLANT LIFE GUARANTEES THE LANDSCAPE CONTRACTOR IS REQUIRED TO PROVIDE

LANDSCAPE SPECIFICATIONS

I. SCOPE OF WORK

THE LANDSCAPE 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.

- 2. MATERIALS A. GENERAL - ALL HARDSCAPE MATERIALS SHALL MEET OR EXCEED SPECIFICATIONS AS OUTLINED IN THE STATE DEPARTMENT OF TRANSPORTATION'S SPECIFICATIONS.
- B. TOPSOIL NATURAL, FRIABLE, LOAMY SILT SOIL HAVING AN ORGANIC CONTENT NOT LESS THAN 5%, A PH RANGE BETWEEN 4.5-7.0. IT SHALL BE FREE OF DEBRIS, ROCKS LARGER THAN ONE INCH (1"), WOOD, ROOTS, VEGETABLE MATTER AND CLAY CLODS.
- C. LAWN ALL DISTURBED AREAS ARE TO BE TREATED WITH A MINIMUM SIX INCH (6") THICK LAYER OF TOPSOIL, OR AS DIRECTED BY THE LOCAL ORDINANCE OR CLIENT AND SODDED IN ACCORDANCE WITH THE PERMANENT STABILIZATION METHODS INDICATED WITHIN THE SOIL EROSION AND SEDIMENT CONTROL NOTES. 1.1. SOD SHALL BE STRONGLY ROOTED, WEED AND DISEASE/PEST FREE WITH A UNIFORM THICKNESS. 1.2. SOD INSTALLED ON SLOPES GREATER THAN 4:1 SHALL BE PEGGED TO HOLD SOD IN PLACE.
- D. MULCH ALL AREAS SHALL BE MULCHED WITH A 3" LAYER OF DOUBLE SHREDDED DARK BROWN HARDWOOD BARK MULCH, UNLESS OTHERWISE STATED ON THE LANDSCAPE PLAN.
- F FFRTILIZER 1.1. 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 1.2. 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
- 1.1. 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 THE AMERICAN NURSERY & LANDSCAPE ASSOCIATION
- 1.2. IN ALL CASES, BOTANICAL NAMES SHALL TAKE PRECEDENCE OVER COMMON NAMES FOR ANY AND ALL PLANT MATERIAL
- 1.3. 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. 1.4. TREES WITH ABRASION OF THE BARK, SUN SCALDS, DISFIGURATION OR FRESH CUTS OF LIMBS OVER 11/4", 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. 1.5. 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.
- 1.6. 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 1.7. SHRUBS SHALL BE MEASURED TO THE AVERAGE HEIGHT OR SPREAD OF THE SHRUB, AND NOT TO THE
- I ONGEST BRANCH 1.8. TREES AND SHRUBS SHALL BE HANDLED WITH CARE BY THE ROOT BALL.
- **3. GENERAL WORK PROCEDURES** A. 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 OF.
- 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.
- 4. 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 TRUNK. 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.
- C. 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.
- 5. 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 DETAI
- C. 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 LANDSCAPE 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 A. 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. LANDSCAPE 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 LANDSCAPE 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. 1.1. 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. 1.2. 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. 1.3. MODIFY EXTREMELY SANDY SOILS (MORE THAN 85%) BY ADDING ORGANIC MATTER AND/OR DRY, SHREDDED CLAY LOAM UP TO 30% OF THE TOTAL MIX.
- 7. FINISHED GRADING A. UNLESS OTHERWISE CONTRACTED, THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF TOPSOIL AND THE ESTABLISHMENT OF FINE-GRADING WITHIN THE DISTURBANCE AREA OF THE SITE.
- B. LANDSCAPE 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. B. 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 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 PLANTING AND 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): 1.1. 20 POUNDS 'GROW POWER' OR APPROVED EQUAL 1.2. 20 POUNDS NITRO-FORM (COURSE) 38-0-0 BLUE CHIP
- E. THE SPREADING OF TOPSOIL SHALL NOT BE CONDUCTED UNDER MUDDY OR FROZEN CONDITIONS.

9. PLANTING

- A. INSOFAR THAT IT IS FEASIBLE, PLANT MATERIAL SHALL BE PLANTED ON THE DAY OF DELIVERY. IN THE EVENT THAT THIS IS NOT POSSIBLE LANDSCAPE CONTRACTOR SHALL PROTECT UNINSTALLED PLANT MATERIAL PLANTS SHALL NOT REMAIN UNPLANTED FOR LONGER THAN A THREE DAY PERIOD AFTER DELIVERY. PLANTS THAT WILL NOT BE PLANTED FOR A PERIOD OF TIME GREATER THAN THREE DAYS SHALL BE HEALED IN WITH TOPSOIL OR MULCH TO HELP PRESERVE ROOT MOISTURE.
- B. PLANTING OPERATIONS SHALL BE PERFORMED DURING PERIODS WITHIN THE PLANTING SEASON WHEN WEATHER AND SOIL CONDITIONS ARE SUITABLE AND IN ACCORDANCE WITH ACCEPTED LOCAL PRACTICE. PLANTS SHALL NOT BE INSTALLED IN TOPSOIL THAT IS IN A MUDDY OR FROZEN CONDITION.
- C. ANY INJURED ROOTS OR BRANCHES SHALL BE PRUNED TO MAKE CLEAN-CUT ENDS PRIOR TO PLANTING UTILIZING CLEAN, SHARP TOOLS. ONLY INJURED OR DISEASED BRANCHING SHALL BE REMOVED.
- D. ALL PLANTING CONTAINERS AND NON-BIODEGRADABLE MATERIALS SHALL BE REMOVED FROM ROOT BALLS DURING PLANTING. NATURAL FIBER BURLAP MUST BE CUT FROM AROUND THE TRUNK OF THE TREE AND FOLDED DOWN AGAINST THE ROOT BALL PRIOR TO BACKFILLING.
- E. POSITION TREES AND SHRUBS AT THEIR INTENDED LOCATIONS AS PER THE PLANS AND SECURE THE APPROVAL OF THE LANDSCAPE ARCHITECT PRIOR TO EXCAVATING PITS, MAKING NECESSARY ADJUSTMENTS AS DIRECTED.
- F. PRIOR TO THE ISSUANCE OF ANY CERTIFICATE OF OCCUPANCY, THE PROPOSED LANDSCAPE, AS SHOWN ON THE APPROVED LANDSCAPE PLAN, MUST BE INSTALLED, INSPECTED AND APPROVED BY THE APPROVING AGENCY. THE APPROVING AGENCY SHALL TAKE INTO ACCOUNT SEASONAL CONSIDERATIONS IN THIS REGARD AS FOLLOWS. THE PLANTING OF TREES, SHRUBS, VINES OR GROUND COVER SHALL OCCUR ONLY DURING THE FOLLOWING PLANTING SEASONS: 1.1. PLANTS: MARCH 15 TO DECEMBER 15
- 1.2. LAWN: MARCH 15 TO JUNE 15 OR SEPT. 1 TO DECEMBER 1
- G. PLANTINGS REQUIRED FOR A CERTIFICATE OF OCCUPANCY SHALL BE PROVIDED DURING THE NEXT APPROPRIATE SEASON AT THE MUNICIPALITY'S DISCRETION. CONTRACTOR SHOULD CONTACT APPROVING AGENCY FOR POTENTIAL SUBSTITUTIONS.
- H. FURTHERMORE, THE FOLLOWING TREE VARIETIES ARE UNUSUALLY SUSCEPTIBLE TO WINTER DAMAGE. WITH TRANSPLANT SHOCK AND THE SEASONAL LACK OF NITROGEN AVAILABILITY, THE RISK OF PLANT DEATH IS GREATLY INCREASED. IT IS NOT RECOMMENDED THAT THESE SPECIES BE PLANTED DURING THE FALL PLANTING

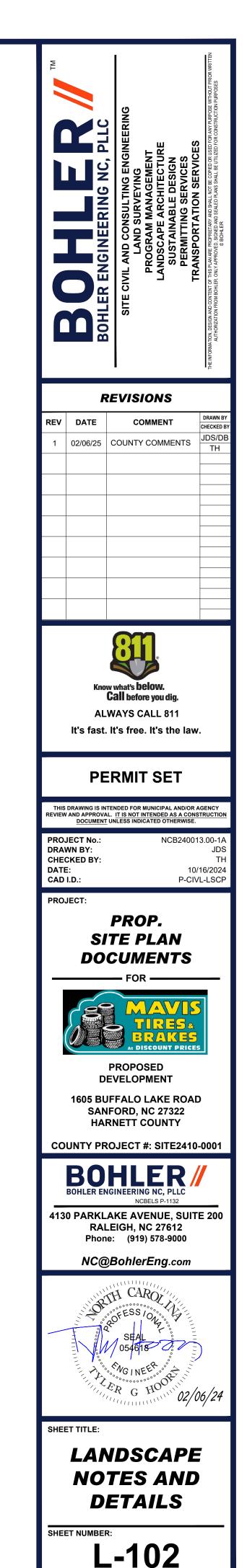
SEASON:	
ACER RUBRUM	PLATANUS X ACERIFOLIA
BETULA VARIETIES	POPULOUS VARIETIES
CARPINUS VARIETIES	PRUNUS VARIETIES
CRATAEGUS VARIETIES	PYRUS VARIETIES
KOELREUTERIA	QUERCUS VARIETIES
LIQUIDAMBER STYRACIFLUA	TILIA TOMENTOSA
LIRIODENDRON TULIPIFERA	ZELKOVA VARIETIES

- I. PLANTING PITS SHALL BE DUG WITH LEVEL BOTTOMS, WITH THE WIDTH TWICE THE DIAMETER OF ROOT BALL. THE ROOT BALL SHALL REST ON UNDISTURBED GRADE. EACH PLANT PIT SHALL BE BACKFILLED IN LAYERS WITH THE FOLLOWING PREPARED SOIL MIXED 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 FOLLOWS:
 - A) 2 TABLETS PER 1 GALLON PLANT B) 3 TABLETS PER 5 GALLON PLANT
 - C) 4 TABLETS PER 15 GALLON PLANT D) LARGER PLANTS: 2 TABLETS PER ½" CALIPER OF TRUNK
- J. FILL PREPARED SOIL AROUND BALL OF PLANT HALF-WAY AND INSERT PLANT TABLETS. COMPLETE BACKFILL AND WATER THOROUGHLY
- K. ALL PLANTS SHALL BE PLANTED SO THAT THE TOP OF THE ROOT BALL, THE POINT AT WHICH THE ROOT FLARE BEGINS, IS SET AT GROUND LEVEL AND IN THE CENTER OF THE PIT. NO SOIL IS TO BE PLACED DIRECTLY ON TOP OF THE ROOT BALL
- L. ALL PROPOSED TREES DIRECTLY ADJACENT TO WALKWAYS OR DRIVEWAYS SHALL BE PRUNED AND MAINTAINED TO A MINIMUM BRANCHING HEIGHT OF 7' FROM GRADE.
- M. GROUND COVER AREAS SHALL RECEIVE A 1/4" LAYER OF HUMUS RAKED INTO THE TOP 1" OF PREPARED SOIL PRIOR TO PLANTING. ALL GROUND COVER AREAS SHALL BE WEEDED AND TREATED WITH A PRE-EMERGENT CHEMICAL AS PER MANUFACTURER'S RECOMMENDATION.
- N. NO PLANT, EXCEPT GROUND COVERS, GRASSES OR VINES, SHALL BE PLANTED LESS THAN TWO FEET (2') FROM EXISTING STRUCTURES AND SIDEWALKS. O. ALL PLANTING AREAS AND PLANTING PITS SHALL BE MULCHED AS SPECIFIED HEREIN TO FILL THE ENTIRE BED
- AREA OR SAUCER. NO MULCH IS TO TOUCH THE TRUNK OF THE TREE OR SHRUB.
- P. ALL PLANTING AREAS SHALL BE WATERED IMMEDIATELY UPON INSTALLATION IN ACCORDANCE WITH THE WATERING SPECIFICATIONS AS LISTED HEREIN.
- 10. TRANSPLANTING (WHEN REQUIRED) A. ALL TRANSPLANTS SHALL BE DUG WITH INTACT ROOT BALLS CAPABLE OF SUSTAINING THE PLANT.
- B. IF PLANTS ARE TO BE STOCKPILED BEFORE REPLANTING, THEY SHALL BE HEALED IN WITH MULCH OR SOIL ADEQUATELY WATERED AND PROTECTED FROM EXTREME HEAT, SUN AND WIND.
- C. PLANTS SHALL NOT BE DUG FOR TRANSPLANTING BETWEEN APRIL 10 AND JUNE 30
- D. UPON REPLANTING, BACKFILL SOIL SHALL BE AMENDED WITH FERTILIZER AND ROOT GROWTH HORMONE.
- E. TRANSPLANTS SHALL BE GUARANTEED FOR THE LENGTH OF THE GUARANTEE PERIOD SPECIFIED HEREIN.
- F. IF TRANSPLANTS DIE, SHRUBS AND TREES LESS THAN SIX INCHES (6") DBH SHALL BE REPLACED IN KIND. TREES GREATER THAN SIX INCHES (6") DBH MAY BE REQUIRED TO BE REPLACED IN ACCORDANCE WITH THE MUNICIPALITY'S TREE REPLACEMENT GUIDELINES.
- A. NEW PLANTINGS OR LAWN AREAS SHALL BE ADEQUATELY IRRIGATED BEGINNING IMMEDIATELY AFTER PLANTING. WATER SHALL BE APPLIED TO EACH TREE AND SHRUB IN SUCH MANNER AS NOT TO DISTURB BACKFILL AND TO THE EXTENT THAT ALL MATERIALS IN THE PLANTING HOLE ARE THOROUGHLY SATURATED. WATERING SHALL CONTINUE AT LEAST UNTIL PLANTS ARE ESTABLISHED.
- B. SITE OWNER SHALL PROVIDE WATER IF AVAILABLE ON SITE AT TIME OF PLANTING. IF WATER IS NOT AVAILABLE ON SITE, CONTRACTOR SHALL SUPPLY ALL NECESSARY WATER. THE USE OF WATERING BAGS IS RECOMMENDED FOR ALL NEWLY PLANTED TREES.
- C. IF AN IRRIGATION SYSTEM HAS BEEN INSTALLED ON THE SITE, IT SHALL BE USED TO WATER PROPOSED PLANT MATERIAL, BUT ANY FAILURE OF THE SYSTEM DOES NOT ELIMINATE THE CONTRACTOR'S RESPONSIBILITY OF MAINTAINING THE DESIRED MOISTURE LEVEL FOR VIGOROUS, HEALTHY GROWTH.
- 2. GUARANTEE

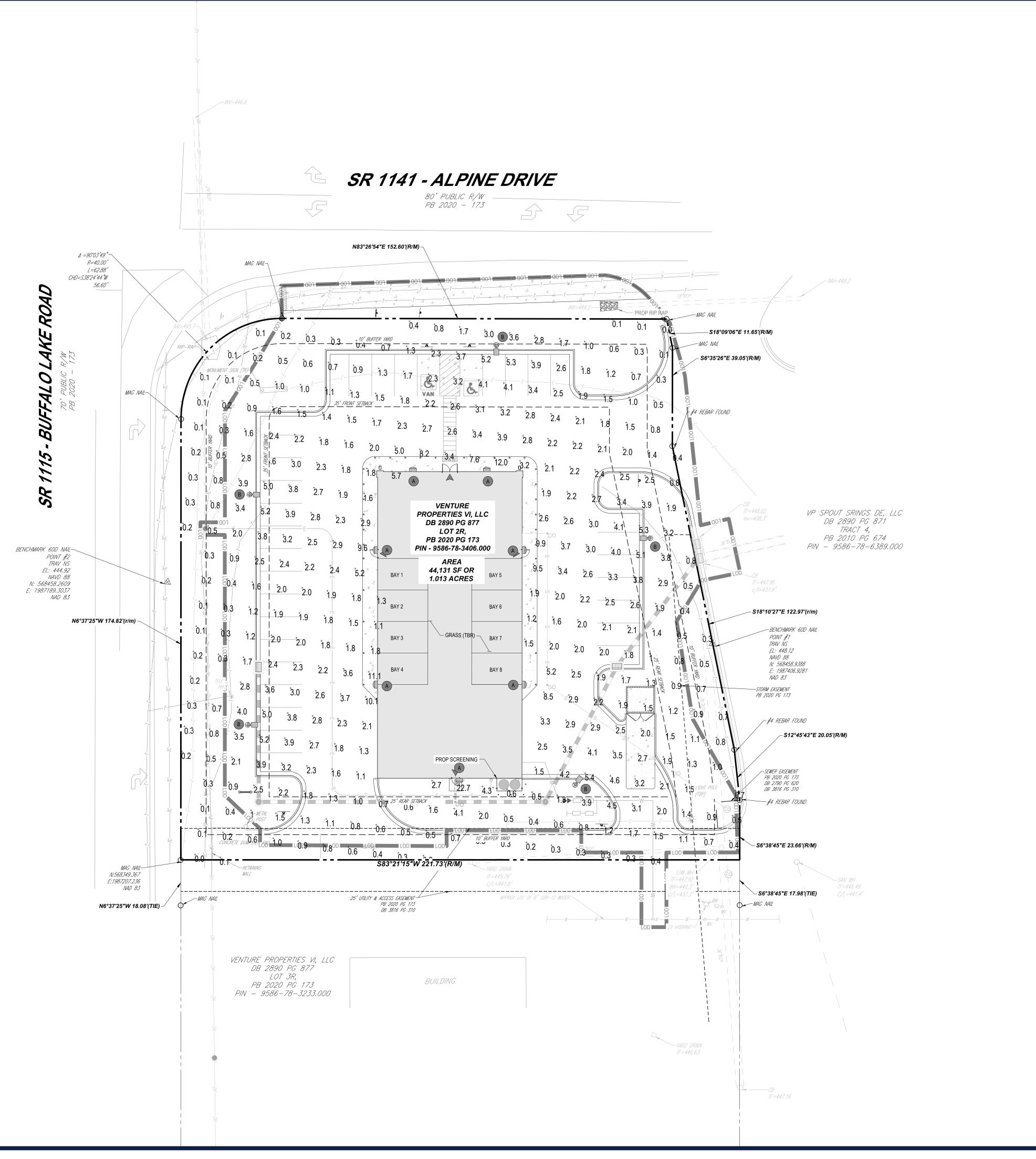
13. CLEANUE

1. WATERING

- A. THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL PLANTS FOR A PERIOD OF ONE (1) YEAR FROM APPROVAL OF LANDSCAPE INSTALLATION BY THE APPROVING AGENCY CONTRACTOR SHALL SUPPLY THE OWNER WITH A MAINTENANCE BOND FOR TEN PERCENT (10%) OF THE VALUE OF THE LANDSCAPE INSTALLATION WHICH WILL BE RELEASED AT THE CONCLUSION OF THE GUARANTEE PERIOD AND WHEN A FINAL INSPECTION HAS BEEN COMPLETED AND APPROVED BY THE OWNER OR AUTHORIZED REPRESENTATIVE.
- B. ANY DEAD OR DYING PLANT MATERIAL SHALL BE REPLACED FOR THE LENGTH OF THE GUARANTEE PERIOD. REPLACEMENT OF PLANT MATERIAL SHALL BE CONDUCTED AT THE FIRST SUCCEEDING PLANTING SEASON. ANY DEBRIS SHALL BE DISPOSED OF OFF-SITE, WITHOUT EXCEPTION.
- C. TREES AND SHRUBS SHALL BE MAINTAINED BY THE CONTRACTOR DURING CONSTRUCTION AND THROUGHOUT THE 90 DAY MAINTENANCE PERIOD AS SPECIFIED HEREIN. CULTIVATION, WEEDING, WATERING AND THE PREVENTATIVE TREATMENTS SHALL BE PERFORMED AS NECESSARY TO KEEP PLANT MATERIAL IN GOOD CONDITION AND FREE OF INSECTS AND DISEASE.
- D. LAWNS SHALL BE MAINTAINED THROUGH WATERING, FERTILIZING, WEEDING, MOWING, TRIMMING AND OTHER OPERATIONS SUCH AS ROLLING, REGARDING AND REPLANTING AS REQUIRED TO ESTABLISH A SMOOTH, ACCEPTABLE LAWN, FREE OF ERODED OR BARE AREAS.
- A. UPON THE COMPLETION OF ALL LANDSCAPE INSTALLATION AND BEFORE THE FINAL ACCEPTANCE, THE CONTRACTOR SHALL REMOVE ALL UNUSED MATERIALS, EQUIPMENT AND DEBRIS FROM THE SITE. ALL PAVED AREAS ARE TO BE CLEANED.
- B. THE SITE SHALL BE CLEANED AND LEFT IN A NEAT AND ACCEPTABLE CONDITION AS APPROVED BY THE OWNER OR AUTHORIZED REPRESENTATIVE.







LIGHTING SCHEDULE ARRANGEMENT

SINGLE

SINGLE

SYMBOL	QTY.	LABEL
A	7	RAB0260
В	5	ECF-S-32L-1-2A-

A-CW-G2-4

MOUNTING HEIGHT REFER TO ARCH DRAWINGS 20'

LIGHTING NOTES:

1. THE LIGHTING PLAN DEPICTS PROPOSED SUSTAINED ILLUMINATION LEVELS CALCULATED USING DATA PROVIDED BY THE NOTED MANUFACTURER(S). 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.

2. THE LIGHT LOSS FACTORS USED IN THESE LIGHTING CALCULATIONS ARE 0.90 FOR ALL LED LUMINAIRES, 0.80 FOR ALL HIGH PRESSURE SODIUM LUMINAIRES OR 0.72 FOR ALL METAL HALIDE LUMINAIRES UNLESS OTHERWISE SPECIFIED. THESE FACTORS ARE INDICATIVE OF TYPICAL LIGHTING INDUSTRY MODELING STANDARDS.

3. THE LIGHTING VALUES AND CALCULATION POINTS DEPICTED ON THE PLAN ARE ALL ANALYZED ON A HORIZONTAL GEOMETRIC PLANE AT ELEVATION ZERO (GROUND LEVEL) UNLESS OTHERWISE NOTED. THE VALUES DEPICTED ON THE PLAN ARE IN FOOTCANDLES.

4. THE LUMINAIRES, LAMPS AND LENSES MUST BE REGULARLY INSPECTED/MAINTAINED TO ENSURE THAT THEY FUNCTION PROPERLY. THIS WORK SHOULD INCLUDE, BUT NOT BE LIMITED TO, FREQUENT VISUAL INSPECTIONS, CLEANING OF LENSES, AND RELAMPING (IF NECESSARY) AT LEAST ONCE EVERY SIX (6) MONTHS. FAILURE TO FOLLOW THE ABOVE STEPS COULD CAUSE THE LUMINARIES, LAMPS AND LENSES TO FAIL OR PROPERLY FUNCTION.

5. WHERE APPLICABLE, THE EXISTING CONDITION LIGHT LEVELS ILLUSTRATED ARE REPRESENTATIVE OF AN APPROXIMATION UTILIZING LABORATORY DATA FOR SIMILAR FIXTURES, UNLESS ACTUAL FIELD MEASUREMENTS ARE TAKEN WITH A LIGHT METER AND ARE, CONSEQUENTLY, APPROXIMATIONS ONLY. DUE TO FACTORS SUCH AS FIXTURE MAINTENANCE, EQUIPMENT TOLERANCES, WEATHER CONDITIONS, ETC, ACTUAL LIGHT LEVELS MAY DIFFER. EXISTING LIGHT LEVELS DEPICTED ON THIS PLAN SHOULD BE CONSIDERED APPROXIMATE.

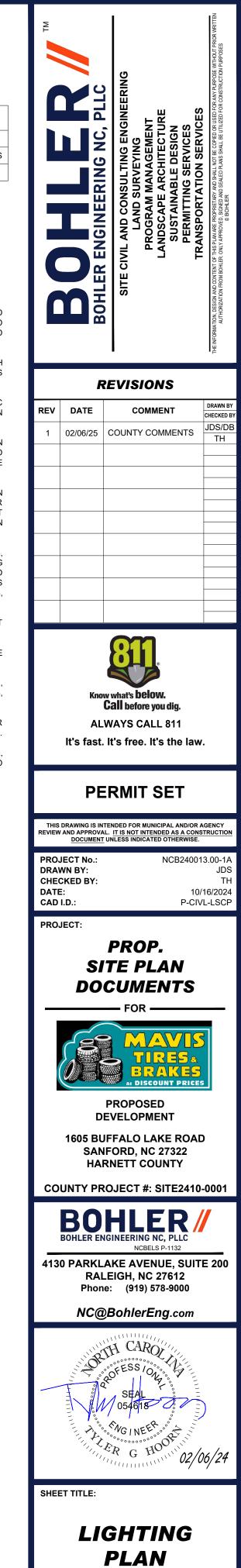
6. THE LIGHTING PLAN IS INTENDED TO SHOW THE LOCATIONS AND TYPE OF LUMINAIRES, ONLY. POWER SYSTEM, CONDUITS. WIRING, VOLTAGES AND OTHER ELECTRICAL COMPONENTS ARE THE RESPONSIBILITY OF THE ARCHITECT, MEP AND/OR LIGHTING CONTRACTOR. AS INDICATED IN THE CONSTRUCTION CONTRACT DOCUMENTS. THESE ITEMS MUST BE INSTALLED AS REQUIRED BY STATE AND LOCAL REGULATIONS. CONTRACTOR IS RESPONSIBLE FOR INSTALLING LIGHTING FIXTURES AND APPURTENANCES IN ACCORDANCE WITH ALL APPLICABLE BUILDING AND ELECTRICAL CODES AND ALL OTHER APPLICABLE RULES, REGULATIONS, LAWS AND STATUTES.

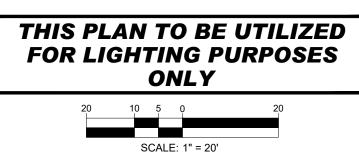
7. CONTRACTOR MUST BRING TO DESIGNER'S ATTENTION, PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, ANY LIGHT LOCATIONS THAT CONFLICT WITH DRAINAGE, UTILITIES, OR OTHER STRUCTURES. 8. IT IS LIGHTING CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE PROJECT ARCHITECT OR OWNER REGARDING THE

POWER SOURCE(S) FROM WITHIN THE BUILDING, AND TIMING DEVICES NECESSARY TO MEET THE DESIGN INTENT. 9. THE LIGHTING CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CONTRACTOR REQUIREMENTS INDICATED IN THE SITE PLAN, INCLUDING BUT NOT LIMITED TO, GENERAL NOTES, GRADING AND UTILITY NOTES, SITE SAFETY, AND ALL GOVERNMENTAL RULES,

LAWS, ORDINANCES, REGULATIONS AND THE LIKE. 10. THE CONTRACTOR MUST VERIFY THAT INSTALLATION OF LIGHTING FIXTURES COMPLIES WITH THE REQUIREMENTS FOR

SEPARATION FROM OVERHEAD ELECTRICAL WIRES AS INDICATED IN THE HIGH VOLTAGE PROXIMITY REGULATIONS N.J.A.C. 12-186. 11. 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.





SHEET NUMBER:

L-201





EcoForm



Gardco EcoForm Gen-2 combines economy with performance in an LED area luminaire. Capable of delivering up to 26,400 lumens or more in a compact, low profile LED luminaire, EcoForm offers a new level of customer value. EcoForm features an innovative retrofit arm kit, simplifying site conversions to LED by eliminating the need to drill additional holes in most existing poles. Integral control systems available for further energy savings. Includes Service Tag, our innovative way to provide assistance throughout the life of the product.

Project:		
Location:		
Cat.No:		
Туре:		
Lamps:	Qty:	
Notes:		

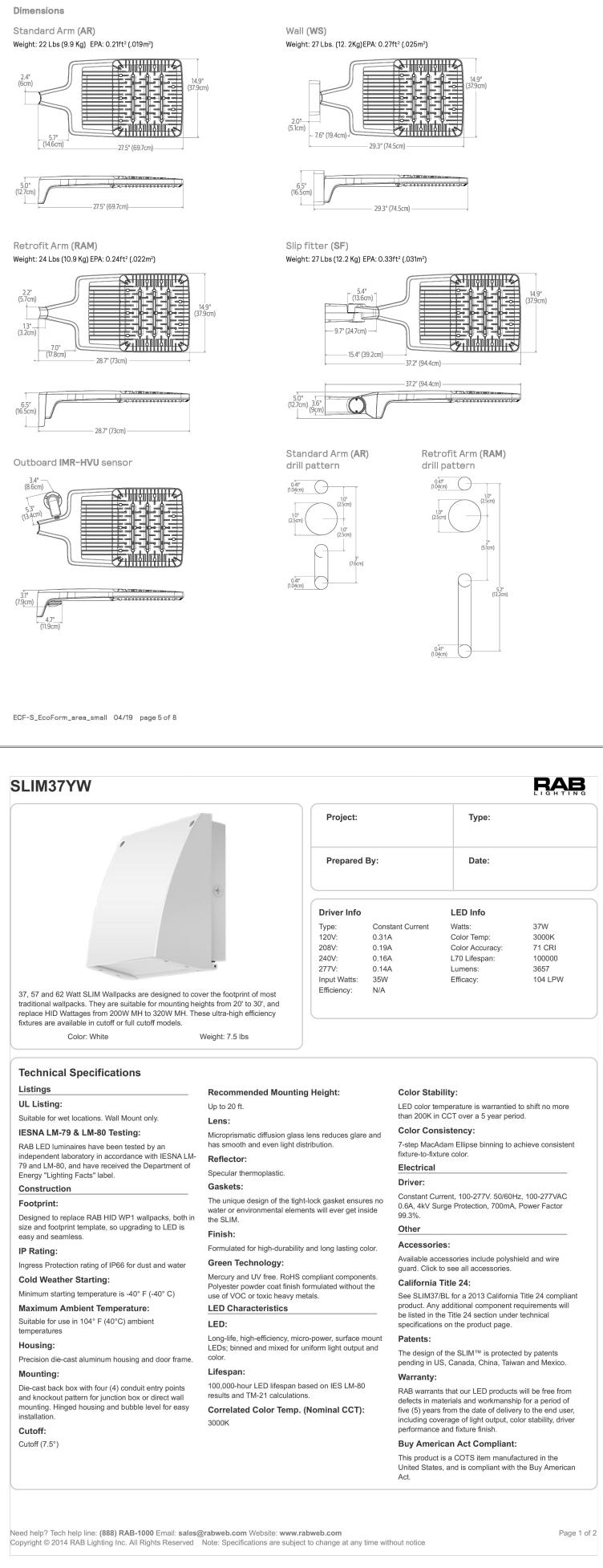
	Number	Drive	LED Color -					Options					
F-S	of LEDs	Current	Generation	Mounting	Distribution	Volta	ige	Dimming controls	Motion sensing lens	Photo-sensing	Electrical	Luminaire	Finish
i rm rd	32L 32 LEDs (2 modules) 48L 48 LEDs (3 modules) 64L 64 LEDs (4 modules)	530 530 mA 700 700 mA 12 1200 mA 1200 mA 900 900 mA 12 1200 mA 1200 mA 1050 mA 1050 mA	WW-G2 Warm White 3000K, 70 CRI Generation 2 NW-G2 Neutral White 4000K, 70 CRI Generation 2 CW-G2 Cool White 5000K, 70 CRI Generation 2		Type 2 2 Type 2 2 -90 Rotated left 90° 2-270 Rotated right 270° Type 3 3 -90 Rotated left 90° 3-270 Rotated left 90° 4-270 Rotated left 90° 4-270 Rotated left 90° 4-270 Rotated left 90° 5 Type 5 5 Type 5 5 Type 5 5 W Type 5W AFR Auto Front Row, Rotated left 90° 4 - 270° AFR-90 Auto Front Row, Rotated left 90° Auto Front Row, Rotated left 90° Auto Front Row, Rotated left 90°	208 240 277 347 480 UNV	120V 208V 240V 277V 347V (50/60Hz) 347-480V (50/60Hz)	module ^{4,6,8}	IMRI7 Integral with #7 lens ¹⁶ IMRO Pole mounted motion sensor ¹⁶ (see accessories)	PCB Photocontrol Button ^{8,9} TLRD5 Twist Lock Receptacle 5 Pin ¹⁰ TLRD7 Twist Lock Receptacle 7 Pin ¹⁰ TLRPC Twist Lock Receptacle w/ Photocell ^[5,1]	Fusing F1 Single (120, 277, 347VAC) ⁹ F2 Double (208, 240, 480VAC) ⁹ Pole Mount Fusing FP1 FP1 Single (120, 277, 347VAC) ⁹ FP2 FP2 Double (208, 240, 480VAC) ⁹ Surge Protection Double Pull (208, 240, 480VAC) ⁹ Surge Protection (10kA standard) SP2 SP2 Increased 20kA	Square Pole Adapter included in standard product TB Terminal Block ¹² RPA Round Pole Adapter (fits to 3"- 3.9" O.D. pole) ¹³ HIS Internal Housing Side Shield ¹⁴	Textured BK Black WH White BZ Bronze DGY Dark Gray MGYMedium G Customer specified RAL Specify optional color or Rr (ex: RAL7C CC Custom cc (Must sup color chip for require factory qu
en vol ounts t uare p nited t rizont ot avail ot avail	tage is HVl o a 4" roun oles. o a maximu al.	J (347-4) Id pole w Im of 45 ther dim Notion se	ith adapter ir degrees aimin ming control nsor.	ncluded for ng above	8. Not 9. Mus 10. Dimr orde 11. Not 12. Not 13. Not	avail t spe ming ering avail avail avail	able in 347 cify input will not be with othe able in 480 able with l	voltage. e connected to NEMA rea er control options. OV.	, ceptacle if	15. Available o	ilable with Type 5 and the set of	nd BL contr	ol options.

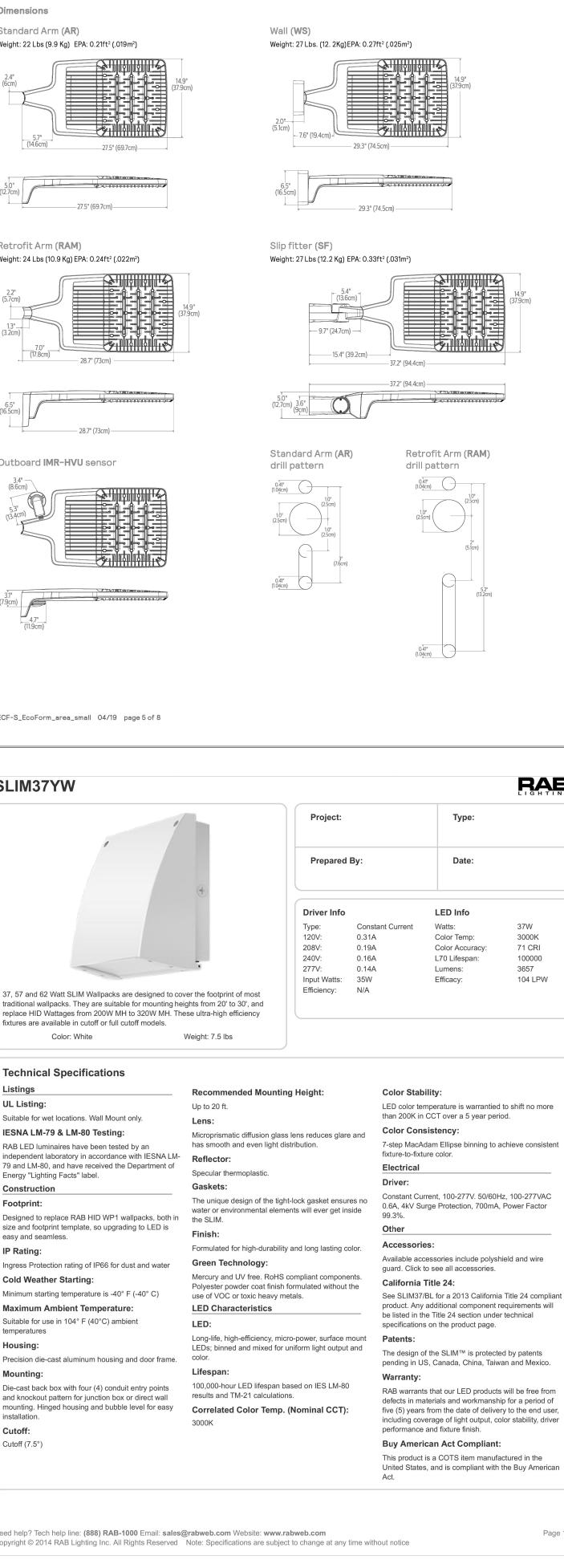
ECF-S_EcoForm_area_small 04/19 page1of8

SLIM37YW

Technical Specifications (continued) Other HID Replacement Range: Recovery Act (ARRA) Compliant: Replaces 200W Metal Halide. This product complies with the 52.225-21 "Required Optical Use of American Iron, Steel, and Manufactured Goods-- Buy American Act-- Construction Materials BUG Rating: (October 2010). B1 U1 G1 GSA Schedule: Suitable in accordance with FAR Subpart 25.4. Features Dimensions Covers footprint of most traditional wallpacks Easy installation with hinged access, bubble level and multiple conduit entries Tight-lock gasket keeps elements out 100,000-hour LED lifespan 9.3 " 236 mm 5-Year warranty Ordering Matrix Cutoff Color Temp Family Watts Photocell **Bi-Level** Finish SLIM Blank = Standard 62 = 62W Blank = 5000K (Cool) Blank = Bronze Blank = No Photocell Blank = No Bi-Level **C** = Cutoff **57** = 57W **Y** = 3000K (Warm) /PC = 120V Button /BL = Bi-Level (57W & 62W) W = White **FC** = Full Cutoff **37** = 37W **N** = 4000K (Neutral) /PC2 = 277V Button /PCS = 120V Swivel /PCS2 = 277V Swivel Need help? Tech help line: (888) RAB-1000 Email: sales@rabweb.com Website: www.rabweb.com Page 2 of 2 Copyright © 2014 RAB Lighting Inc. All Rights Reserved Note: Specifications are subject to change at any time without notice

Area luminaire —27.5" (69.7cm) — _____ - 27.5" (69.7cm)-----





ECF-S_EcoForm_area_small	04/19	page 5 of 8

9 and LM-80, and have received the Department nergy "Lighting Facts" label.
construction
ootprint:
esigned to replace RAB HID WP1 wallpacks, bot ze and footprint template, so upgrading to LED is asy and seamless.
P Rating:
gress Protection rating of IP66 for dust and wate
old Weather Starting:
linimum starting temperature is -40° F (-40° C)
laximum Ambient Temperature:
uitable for use in 104° F (40°C) ambient emperatures
lousing:
recision die-cast aluminum housing and door fra
lounting:
ie-cast back box with four (4) conduit entry points nd knockout pattern for junction box or direct wal nounting. Hinged housing and bubble level for eas istallation.
utoff:
utoff (7.5°)

ECF-S EcoForm small

	BOHLER ENGINEERING NC. PLLC		SILE CIVIL AND CONSULTING ENGINEERING LAND SURVEYING	PROGRAM MANAGEMENT	LANDSCAPE ARCHITECTURE	SUSTAINABLE DESIGN	PERMITTING SERVICES TRANSPORTATION SERVICES		THE INFORMATION, DESIGN AND CONTENT OF THIS PLAN ARE PROPRIETARY AND SHALL NOT BE COPIED OR USED FOR ANY PURPOSE WITHOUT PROR WRITTEN AUTHORIZATION FROM BOHLER, ONLY APPROVED, SIGNED AND SEALED PLANS SHALL BE UTILIZED FOR CONSTRUCTION PURPOSES © BOHLER
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Know what's below. Call before you dig. ALWAYS CALL 811 It's fast. It's free. It's the law.									
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BOHLER ENGINEERING NC, PLLC NCBELS P-1132 4130 PARKLAKE AVENUE, SUITE 200 RALEIGH, NC 27612 Phone: (919) 578-9000 NC@BohlerEng.com									
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