SITE DATA

SITE ADDRESS: LOT 3 - PUBLIX AT WALLBROOK ROLESVILLE, NC 27587

2,084 GSF BUILDING

76635

EXISTING ZONING: GC-CZ

SITE AREA: 33,092 SF / 0.76 AC

EXISTING USE: VACANT

FUTURE USE: BANK WITH DRIVE THRU

PARKING DATA

BUILDING AREA:

BANK PARKING REQUIRED: MAX. 6 SPACES PER 1000 SF OF G.F.A. 2,084 SF x (6 SPACES/1000 SF) = 13 SPACES

MIN. 2.5 SPACES PER 1000 SF OF G.F.A.

TOTAL PARKING PROVIDED = 13 SPACES

TOTAL PARKING PROVIDED:

PARKING SPACE SIZE: 9'x 19' MINIMUM

LANDSCAPE BUFFER - REAR

*NOTE-FINANCIAL INSTITUTIONS DO NOT USE LOADING ZONE: LOADING ZONES FOR SECURITY PURPOSES

DELIVERY TRUCK WILL PARK DIRECTLY IN FRONT

LANDSCAPE REQUIREMENTS:

LANDSCAPE BUFFER - FRONT (S. MAIN ST) LANDSCAPE BUFFER - SIDES = 0'

BUILDING REQUIREMENTS

BUILDING SETBACK - FRONT (S. MAIN ST)

BUILDING SETBACK - SIDES = 15' BUILDING SETBACK - REAR = 35' MAXIMUM BUILDING HEIGHT

THE SUBJECT PROPERTY IS LOCATED IN FLOOD ZONE X

**DUMPSTER ENCLOSURE:

REFUSE CONTAINER ON LOT 2 WILL BE SHARED WITH THIS DEVELOPMENT. FIFTH THIRD BANK TO COORDINATE WITH THE DEVELOPER FOR A SHARED DUMPSTER

STORM WATER INFORMATION:

WATER: LOWER NEUSE RIVER BASIN: NEUSE TREE COVERAGE DATA

CONSTRUCTION PLANS FOR:

V3-SDP-24-07

DRAWING INDEX

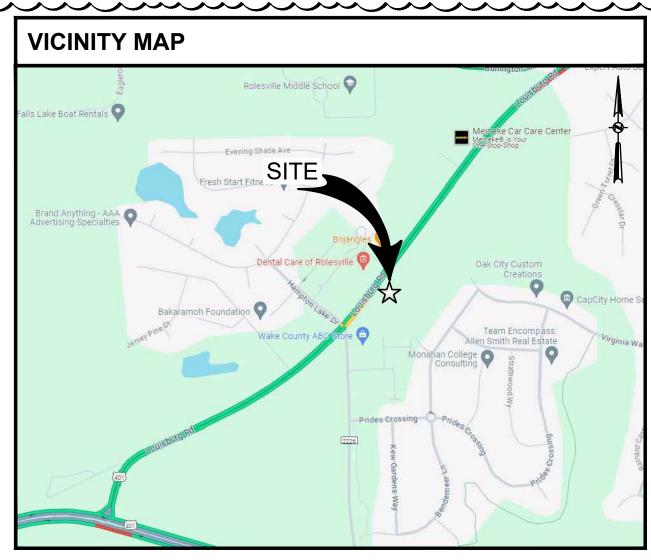


ROIFSVILLE WALLBROOK

LOT 3

ROLESVILLE, NORTH CAROLINA 27587

TOWN OF ROLESVILLE PROJECT # SDP-24-07





PROJECT TEAM

CONTACT:

PROPERTY OWNER/DEVELOPER: WALLBROOK PLX LLC 801 EAST BOULEVARD **CHARLOTTE NC 28203** PH: (000) 000-0000

CIVIL ENGINEER: INFINITY ENGINEERING GROUP, LLC 1208 EAST KENNEDY BOULEVARD SUITE 230 TAMPA, FLORIDA 33602 PH: (813) 434-4770 CONTACT: NISIT SAPPARKHAO

SURVEYORS: ARCHITECT: GREENBERG FARROW BDG ARCHITECTS 1230 PEACHTREE STREET NE 550 SOUTH CALDWELL STREET **SUITE 2900** SUITE 1800 ATLANTA, GEORGIA 30309 CHARLOTTE, NORTH CAROLINA 28202 PH: (770) 422-8181 PH: (704) 981-8951 CONTACT: RODNEY E. ABNEY JR. CONTACT: JONATHYN REED

UTILITY PROVIDERS

ELECTRICAL WAKE ELECTRIC MEMBERSHIP COOPERATION (WEMC) - JIM HAYES, 919-863-6466 JIM.HAYES@WEMC.COM

GAS: DOMINION ENERGY - MATT KOEHL, 919-819-0485 MATTHEWS.KOEHL@DOMINIONENERGY.COM SOLID WASTE:

TELEPHONE/INTERNET SPECTRUM / CHARTER -TRISTAN DURLING, 919-604-4793, TRISTAN.DURLING@CHARTER.COM

- TROY SMITH, 512-485-5080, TROY.SMITH@CHARTER.COM (RIGHT-OF-ENTRY PERSON)

GFL ENVIRONMENTAL INC. - WASTE MANAGEMENT & ENVIRONMENTAL SERVICES - 919-662-7100

PARCEL ID: 1758454702 WAKE COUNTY, NORTH CAROLINA

SITE PERMITTING APPROVAL

Water and Sewer Permits (If applicable)

The City of Ralleigh consents to the connection and extension of the City's Public Sewer System as shown on this plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook. City of Raleigh Public Utilities Department Permit # N/A

The City of Ralleigh consents to the connection and extension of the City's Public Water System as shown on this plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook. City of Raleigh Public Utilities Department Permit # N/A

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

Electronic Approval: This approval is being issued electronically. This approval is valid only upon the signature of a City of Raleigh Review Officer below. The City will retain a copy of the approved plans. Any work authorized by this approval must proceed in accordance with the plans kept on file with the City. This electronic approval may not be edited once issued. Any modification to this approval once issued will invalidate this approval,

City of Raleigh Development Approval

Raleigh Water Review Officer

EROSION CONTROL, STORMWATER AND FLOODPLAIN MANAGEMENT **APPROVED** EROSION CONTROL ☐ S-STORMWATER MGMT. S-FLOOD STUDY S-ENVIRONMENTAL CONSULTANT SIGNATURE





1208 East Kennedy Boulevard Suite 230 Tampa, FL 33602

[p]: 813.434.4770 [f]: 813.445.4211 www.iegroup.net NC FIRM Certificate No. P-1836

IEG JOB NO. 15-309.00

SHEET NO.	SHEET TITLE
C00.00	COVER SHEET
C00.01	CIVIL SPECIFICATIONS
C00.02	OVERALL SITE
C01.01	DEMOLITION PLAN
C02.01	SITE PLAN
C03.01	GRADING PLAN
C03.02	STORM PIPING PLAN
C04.01	UTILITY PLAN
C05.01	DETAILS
C05.02	DETAILS
C05.03	NCDOT DETAILS
C05.04	CITY OF RALEIGH UTILITY DETAILS
C05.05	CITY OF RALEIGH UTILITY DETAILS
C05.06	WAKE COUNTY SEEDING SPECIFICATIONS
C06.01	SWPPP GENERAL REQUIREMENTS
C06.02	EROSION CONTROL PLAN PHASE I
C06.03	EROSION CONTROL PLAN PHASE II
C06.04	EROSION AND SEDIMENTATION CONTROL DETAILS
C06.05	EROSION AND SEDIMENTATION CONTROL DETAILS
A-200	EXTERIOR ELEVATIONS
A-201	EXTERIOR ELEVATIONS
A-202	COLOR EXTERIOR ELEVATIONS
L-100	IRRIGATION PLAN
L-110	LANDSCAPE PLAN
L-500	IRRIGATION DETAILS
L-510	LANDSCAPE DETAILS
GL-010	IRRIGATION SPECIFICATIONS
GL-011	LANDSCAPE SPECIFICATIONS
SA01.01	SITE ACCESS PLAN
07101.01	
E-011	ELECTRICAL PHOTOMETRIC SITE PLAN

SHEET

C00.00

GENERAL NOTE

- 1. ALL CONSTRUCTION SHALL BE EXECUTED AS SHOWN ON THESE PLANS. ANY REVISIONS AND/OR DEVIATIONS MUST BE APPROVED BY THE ENGINEER OF RECORD AND MAY RESULT IN ADDITIONAL PERMITTING EFFORTS THROUGH THE RELATED PERMITTING AGENCY. THE CONTRACTOR SHALL ACKNOWLEDGE THAT REVISIONS AND/OR DEVIATIONS MAY RESULT IN ADDITIONAL PERMITTING REQUIREMENTS AND POSSIBLY AFFECT SCHEDULING OF WORK.
- UNLESS OTHERWISE NOTED ON PLANS, OR WITHIN THE PROJECT SPECIFICATIONS, ALL MATERIALS AND CONSTRUCTION ARE TO BE IN ACCORDANCE WITH DESIGN AND CONSTRUCTION STANDARDS OF THE PERMITTING AGENCY HAVING JURISDICTION; THE LOCALLY ADOPTED BUILDING CODE; AND ALL APPLICABLE LOCAL AND STATE CODES AND ORDINANCES.
- 3. PERMITS MAY BE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT-OF-WAY. THE CONTRACTOR IS TO ACKNOWLEDGE AND SECURE ALL PERMITS AND INSPECTIONS REQUIRED FOR WORK IN THE PUBLIC RIGHT-OF-WAY.
- 4. THIS PARCEL OF LAND MAY BE SUBJECT TO ANY AND ALL RECORDED (AND POSSIBLY UNRECORDED) EASEMENTS, RESTRICTIONS, AND COVENANTS.
- 5. PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES FOR VERIFICATION OF UTILITIES WITHIN THE LIMITS OF CONSTRUCTION. CALL AREA ONE CALL SYSTEM 48 HOURS PRIOR TO ANY EXCAVATION.
- 6. THE CONTRACTOR IS TO VERIFY ALL DIMENSIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER IN A TIMELY MANNER.
- 7. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT EXISTING PERMANENT SURVEY MONUMENTS AND BENCHMARKS FROM DISTURBANCE. SURVEY MONUMENTS DISTURBED BY CONSTRUCTION ARE TO BE REPLACED AND ADJUSTED VIA A LAND SURVEYOR REGISTERED IN THE STATE FOR WHICH THE PROJECT IS LOCATED.
- 8. THE CONTRACTOR SHALL COORDINATE WORK EFFORTS WITH THE OWNER TO MINIMIZE TRAFFIC INTERFERENCE AND OPERATIONS OF THE FACILITIES.
- 9. NO BLASTING OR BURNING IS ALLOWED ON THE PROJECT, UNLESS OTHERWISE DIRECTED OR NOTED BY THE ENGINEER.
- 10. IT IS NOT EXPECTED THAT HAZARDOUS MATERIALS WILL BE ENCOUNTERED. HOWEVER IF MATERIALS SUSPECTED OF CONTAINING HAZARDOUS MATERIALS ARE ENCOUNTERED, DO NOT DISTURB; IMMEDIATELY NOTIFY ENGINEER AND OWNER. HAZARDOUS MATERIALS WILL BE REMOVED BY OWNER UNDER A SEPARATE CONTRACT.

REGULATORY STANDARDS AND REQUIREMENTS

- 1. COMPLY WITH HAULING AND DISPOSAL REGULATIONS OF AUTHORITIES HAVING
- 2. COMPLY WITH ANSI A10.6, "SAFETY REQUIREMENTS FOR CONSTRUCTION AND DEMOLITION.
- 3. COMPLY WITH NFPA 241, "SAFEGUARDING CONSTRUCTION, ALTERATION AND **DEMOLITION OPERATIONS."**

DEMOLITION AND CLEARING

- DEMOLITION AND CLEARING OPERATIONS SHALL CONFORM TO APPLICABLE REGULATIONS RELATING TO ENVIRONMENTAL REQUIREMENTS DISPOSAL OF DEBRIS, BURNING OF DEBRIS ON SITE, AND USE OF HERBICIDES.
- 2. DEMOLITION WASTE SHALL BE DISPOSED OF IN A LEGAL MANNER. REMOVED DEMOLITION WASTE MATERIALS FROM PROJECT SITE AND DISPOSE OF WASTE IN AN EPA-APPROVED LANDFILL ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION. DO NOT BURY OR BURN DEMOLITION WASTE ON-SITE.
- HISTORIC ITEMS. RELICS. ANTIQUES. AND SIMILAR OBJECTS. INCLUDING. BUT NOT LIMITED TO CORNERSTONES AND THEIR CONTENTS, COMMEMORATIVE PLAQUES AND TABLETS, AND OTHER ITEMS OF INTEREST OF VALUE TO OWNER THAT MAY BE UNCOVERED DURING DEMOLITION REMAIN THE PROPERTY OF THE
- ARRANGE DEMOLITION SCHEDULE SO AS NOT TO INTERFERE WITH OWNER'S ON-SITE OPERATIONS OR OPERATIONS OF ADJACENT OCCUPIED BUILDINGS.
- 5. CONDUCT BUILDING DEMOLITION AND DEBRIS REMOVAL OPERATIONS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKWAYS, AND OTHER ADJACENT OCCUPIED AND USED FACILITIES. DO NOT CLOSE OR OBSTRUCT STREETS, WALKS, WALKWAYS, OR OTHER ADJACENT OCCUPIED OR USED FACILITIES WITHOUT PERMISSION FROM OWNER AND AUTHORITIES HAVING JURISDICTION.
- 6. AUTHORITY FOR PERFORMING SITE CLEARING INDICATED ON PROPERTY ADJOINING OWNER'S PROPERTY MUST BE OBTAINED BY OWNER PRIOR TO COMMENCEMENT OF CLEARING. DO NOT PROCEED WITH WORK ON ADJOINING PROPERTY UNTIL DIRECTED BY ENGINEER.
- 7. PRIOR TO COMMENCEMENT OF DEMOLITION OPERATIONS:
- a. VERIFY THAT HAZARDOUS MATERIALS, IF PRESENT, HAVE BEEN REMEDIATED. b. REVIEW PROJECT RECORD DRAWINGS OF EXISTING BUILDING AND EXISTING SITE IMPROVEMENTS.
- c. INVENTORY AND RECORD THE CONDITION OF ITEMS TO BE REMOVED AND SALVAGED. TAKE DIGITAL PHOTOGRAPHS OR VIDEO OF PROJECT SITE AND SURROUNDING PROPERTIES, INCLUDING EXISTING ITEMS TO REMAIN DURING CONSTRUCTION OPERATIONS, RECORD CONDITIONS THAT MIGHT BE
- MISCONSTRUED AS DAMAGE CAUSED BY SALVAGE OPERATIONS. d. CLEAN, PACK, IDENTIFY, AND TRANSPORT SALVAGED ITEMS TO STORAGE AREA DESIGNATED BY OWNER.
- e. REMOVE REFRIGERANT FROM THE MECHANICAL EQUIPMENT ACCORDING TO 40 CFR 82 AND REGULATIONS OF AUTHORITIES HAVING JURISDICTION.
- f. COORDINATE ANY ADDITIONAL REQUIREMENTS FOR DEMOLISHING OR RELOCATING SITE MECHANICAL AND ELECTRICAL ITEMS WITH OWNER AND OTHER AUTHORITIES HAVING JURISDICTION.

h. LOCATE, IDENTIFY, DISCONNECT, AND SEAL OR CAP-OFF EXISTING UTILITIES

- g. ASSURE THAT ANY REQUIRED INITIAL EROSION AND SEDIMENT CONTROL MEASURES ARE INSTALLED AND IN WORKING ORDER.
- SERVING BUILDINGS AND STRUCTURES TO BE DEMOLISHED. CUT AND REMOVE PIPE OR CONDUIT A MINIMUM OF 24 INCHES BELOW GRADE. CAP, VALVE, PLUG AND SEAL REMAINING PORTION OF PIPE OR CONDUIT. i. DO NOT START DEMOLITION WORK UNTIL UTILITY DISCONNECTION AND SEALING HAVE BEEN COMPLETED AND VERIFIED IN WRITING.

8. PRIOR TO COMMENCEMENT OF SITE CLEARING OPERATIONS, VERIFY THE FOLLOWING:

- a. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES ARE IN PLACE AND IN WORKING ORDER.
- b. UTILITY LOCATOR SERVICE HAS DETERMINED AND FLAGGED THE LOCATION
- OF UNDERGROUND UTILITIES.
- c. EXISTING SITE IMPROVEMENTS AND UTILITIES TO REMAIN HAVE BEEN PROTECTED.
- d. BENCHMARKS AND SURVEY CONTROL POINTS HAVE BEEN PROTECTED FROM
- DISTURBANCE e. TREES AND VEGETATION TO REMAIN (OR TO BE RELOCATED) HAVE BEEN
- LOCATED AND CLEARLY FLAGGED IN ACCORDANCE WITH TREE PROTECTION AND TRIMMING REQUIREMENTS.
- 9. COORDINATE UTILITY DEMOLITION AND ABANDONMENT WITH UTILITY COMPANY OR AUTHORITY HAVING JURISDICTION.
- 10. IN THE EVENT BUILDINGS IMMEDIATELY ADJACENT TO THE DEMOLITION AREA WILL BE OCCUPIED, CONDUCT SITE DEMOLITION SO OPERATIONS OF OCCUPIED

- BUILDINGS WILL NOT BE DISRUPTED. MAINTAIN ACCESS TO AND FROM EXISTING WALKWAYS, EXITS, AND OTHER FACILITIES USED BY OCCUPANTS OF ADJACENT
- 11. PROTECT EXISTING FACILITIES AND ADJACENT WALKWAYS, LOADING DOCKS, BUILDING ENTRIES, AND OTHER BUILDING FACILITIES DURING DEMOLITION OPERATIONS. MAINTAIN EXITS FROM EXISTING BUILDINGS.
- 12. ERECT TEMPORARY PROTECTION, SUCH AS WALKS, FENCES, RAILINGS, CANOPIES, AND COVERED PASSAGEWAYS, AS NECESSARY, AND AS REQUIRED BY AUTHORITIES HAVING JURISDICTION. REMOVE TEMPORARY BARRIERS AND PROTECTIONS WHERE HAZARDS NO LONGER EXIST. WHERE OPEN EXCAVATIONS OR OTHER HAZARDOUS CONDITIONS REMAIN, LEAVE TEMPORARY BARRIERS AND PROTECTIONS IN PLACE.
- 13. PROTECT EXISTING UTILITIES FROM DAMAGE DURING DEMOLITION OPERATIONS. MAINTAIN OPERATION OF UTILITY SERVICES TO REMAIN. PROVIDE AT LEAST 72 HOURS' NOTICE TO OCCUPANTS OF AFFECTED BUILDINGS IF SHUTDOWN OF SERVICE IS REQUIRED.
- 14. IF REMOVAL, RELOCATION, OR ABANDONMENT OF UTILITY SERVICES WILL AFFECT ADJACENT OCCUPIED BUILDINGS, MAINTAIN CONTINUITY OF SERVICE TO ADJACENT BUILDINGS BY PROVIDING TEMPORARY UTILITIES THAT BYPASS BUILDINGS AND STRUCTURES TO BE DEMOLISHED. TEMPORARY BYPASS SERVICES SHALL BE PROVIDED IN ACCORDANCE WITH UTILITY COMPANY OR AUTHORITIES HAVING JURISDICTION.
- 15. TEMPORARY SHORING: PROVIDE AND MAINTAIN INTERIOR AND EXTERIOR SHORING, BRACING, OR STRUCTURAL SUPPORT TO PRESERVE STABILITY AND PREVENT UNEXPECTED MOVEMENT OR COLLAPSE OF EXISTING IMPROVEMENTS BEING DEMOLISHED. ALL SHORING OPERATIONS SHALL BE DESIGNED BY A LICENSED PROFESSIONAL AND INSTALLED PER OSHA REQUIREMENTS.
- 16. DEMOLITION OF STRUCTURAL FRAMING MEMBERS SHALL PROCEED SYSTEMATICALLY, FROM HIGHER TO LOWER LEVEL. COMPLETE BUILDING DEMOLITION OPERATIONS ABOVE EACH FLOOR OR TIER BEFORE DISTURBING SUPPORTING MEMBERS ON THE NEXT LOWER LEVEL. REMOVE DEBRIS FROM ELEVATED PORTIONS OF THE BUILDING BY CHUTE, HOIST, OR OTHER DEVICE THAT WILL CONVEY DEBRIS TO GRADE LEVEL IN A CONTROLLED DESCENT.
- CLEAN ADJACENT STRUCTURES AND IMPROVEMENTS OF DUST, DIRT, AND DEBRIS CAUSED BY BUILDING DEMOLITION OPERATIONS. RETURN ADJACENT AREAS TO CONDITION EXISTING BEFORE BUILDING DEMOLITION OPERATIONS
- 18. CLEARING AND GRUBBING:
- a. REMOVE OBSTRUCTIONS, TREES, SHRUBS, GRASS, AND OTHER VEGETATION TO PERMIT INSTALLATION OF NEW CONSTRUCTION. DO NOT REMOVE TREES. SHRUBS, AND OTHER VEGETATION INDICATED TO REMAIN OR TO BE
- RELOCATED. b. CUT MINOR ROOTS AND BRANCHES OF TREES INDICATED TO REMAIN IN A CLEAN AND CAREFUL MANNER AND ONLY WHERE SUCH ROOTS AND BRANCHES OBSTRUCT INSTALLATION OF NEW CONSTRUCTION.
- c. CLEAR UNDERGROWTH AND DEADWOOD WITHOUT DISTURBING SUBSOIL. d. GRIND STUMPS AND REMOVE ROOTS, OBSTRUCTIONS, AND DEBRIS EXTENDING TO A DEPTH BELOW EXPOSED SUBGRADE AS FOLLOWS: • FOOTINGS, SLABS ON GRADE AND BOTTOM SLABS OF STRUCTURES: 36
- INCHES ROADS AND PAVEMENT AREAS: 18 INCHES.
- AREAS TO BE GRASSED OR LANDSCAPED: 8 INCHES. AREAS TO BE FILLED: 12 INCHES.
- e. USE ONLY HAND METHODS FOR GRUBBING WITHIN TREE PROTECTION ZONES. f. CHIP REMOVED TREE BRANCHES AND DISPOSE OF OFF-SITE.

TO A DENSITY EQUAL TO ADJACENT ORIGINAL GROUND.

a. UNLESS FURTHER EXCAVATION OF EARTHWORK IS INDICATED. FILL DEPRESSIONS CAUSED BY CLEARING AND GRUBBING OPERATIONS WITH SATISFACTORY SOIL MATERIAL. PLACE FILL MATERIAL IN HORIZONTAL LAYERS

NOT EXCEEDING A LOOSE DEPTH OF 8 INCHES, AND COMPACT EACH LAYER

- a. REMOVE SOD AND GRASS BEFORE STRIPPING TOPSOIL b. STRIP TOPSOIL TO WHATEVER DEPTHS ARE ENCOUNTERED IN A MANNER TO PREVENT INTERMINGLING WITH UNDERLYING SUBSOIL OR OTHER WASTE MATERIALS. REMOVE SUBSOIL AND NON-SOIL MATERIALS FROM TOPSOIL
- INCLUDING TRASH, DEBRIS, WEEDS, ROOTS, AND OTHER WASTE MATERIALS. c. STOCKPILE TOPSOIL MATERIALS AWAY FROM EDGE OF EXCAVATIONS WITHOUT INTERMIXING WITH SUBSOIL. GRADE AND SHAPE STOCKPILES TO DRAIN SURFACE WATER. COVER TO PREVENT WINDBLOWN DUST. LIMIT HEIGHT OF TOPSOIL STOCKPILES TO 72 INCHES. DO NOT STOCKPILE TOPSOIL WITHIN TREE PROTECTION ZONES. STOCKPILE SURPLUS TOPSOIL TO ALLOW FOR RESPREADING DEEPER TOPSOIL.

20. SITE IMPROVEMENTS:

PREVENT CORROSION

- a. REMOVE EXISTING ABOVE- AND BELOW-GRADE IMPROVEMENTS AS INDICATED AND AS NECESSARY TO FACILITATE NEW CONSTRUCTION. REMOVE SLABS,
- PAVING, CURBS, GUTTERS, AND AGGREGATE BASE AS INDICATED. b. UNLESS EXISTING FULL-DEPTH JOINTS COINCIDE WITH LINE OF DEMOLITION, NEATLY SAW-CUT LENGTH OF EXISTING PAVEMENT TO REMAIN BEFORE REMOVING EXISTING PAVEMENT, SAWCUT ALL FACES VERTICALLY c. PAINT CUT ENDS OF STEEL REINFORCEMENT IN CONCRETE TO REMAIN TO

- a. REMOVE SURPLUS SOIL MATERIAL, UNSUITABLE TOPSOIL, OBSTRUCTIONS,
- DEMOLISHED MATERIALS, AND WASTE MATERIALS, INCLUDING TRASH AND DEBRIS. AND LEGALLY DISPOSE OF THEM OFF OWNER'S PROPERTY. b. REMOVE AND TRANSPORT DEBRIS AND RUBBISH IN A MANNER THAT WILL PREVENT SPILLAGE ON STREETS OR ADJACENT AREAS. CLEAN UP SPILLAGE FROM STREETS AND ADJACENT AREAS.
- c. COMPLY WITH FEDERAL, STATE AND LOCAL HAULING AND DISPOSAL
- REGULATIONS d. SEPARATE RECYCLABLE MATERIALS PRODUCED DURING SITE CLEARING FROM OTHER NON-RECYCLABLE STORE OR STOCKPILE WITHOUT INTERMIXING WITH OTHER MATERIALS AND TRANSPORT THEM TO RECYCLING FACILITIES.

TREE PROTECTION AND TRIMMING

- INSTALL TEMPORARY FENCING AROUND TREE PROTECTION ZONES TO PROTECT TREES AND VEGETATION DESIGNATED TO REMAIN FROM CONSTRUCTION DAMAGE. MAINTAIN TEMPORARY FENCING AROUND TREE PROTECTION ZONES. AND REMOVE WHEN CONSTRUCTION IS COMPLETE.
- 2. KEEP TREE PROTECTION ZONES FREE OF WEEDS AND TRASH.
- 3. DO NOT STORE CONSTRUCTION MATERIALS, DEBRIS, OR EXCAVATED MATERIAL INSIDE TREE PROTECTION ZONE; OR PERMIT VEHICLES OR FOOT TRAFFIC WITHIN TREE PROTECTION ZONE, OR ALLOW FIRES WITHIN TREE PROTECTION
- 4. PROTECT TREE ROOT SYSTEMS FROM THE FOLLOWING:
- a. DAMAGE CAUSED BY RUNOFF OR SPILLAGE OF NOXIOUS MATERIALS WHILE MIXING, PLACING, OR STORING CONSTRUCTION MATERIALS; b. DAMAGE CAUSED BY PONDING, ERODING, OR EXCESSIVE WETTING FROM DEWATERING OPERATIONS.
- UNLESS OTHERWISE INDICATED, DO NOT EXCAVATE WITHIN TREE PROTECTION ZONES. WHERE EXCAVATION FOR NEW CONSTRUCTION IS UNAVOIDABLE, HAND CLEAR AND EXCAVATE TO MINIMIZE DAMAGE TO ROOT SYSTEMS.
- 6. WHERE UTILITY TRENCHES ARE UNAVOIDABLE WITHIN TREE PROTECTION ZONES, TUNNEL UNDER OR AROUND ROOTS BY DRILLING, AUGER BORING, PIPE JACKING, OR DIGGING BY HAND. DO NOT CUT MAIN LATERAL ROOTS OR TAPROOTS
- PROMPTLY REPAIR TREES DAMAGED BY CONSTRUCTION OPERATIONS WITHIN 24 HOURS. TREAT DAMAGED TRUNKS, LIMBS, AND ROOTS ACCORDING TO

- ARBORIST'S WRITTEN INSTRUCTIONS.
- TREE PRUNING: PRUNE TREES ACCORDING TO ANSI A300 (PART 1), 'TREE, SHRUB, AND OTHER WOODY PLANT MAINTENANCE - STANDARD PRACTICES

EROSION AND SEDIMENTATION

- PRIOR TO COMMENCEMENT OF ANY CLEARING AND EXCAVATION WITHIN A WORK AREA, ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AND IN WORKING ORDER.
- PERFORM WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE STATE AND FIELD QUALITY CONTROL: FEDERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
- 3. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING EROSION AND SEDIMENT CONTROL FEATURES TO PREVENT AND CONTROL SEDIMENT-LADEN RUNOFF FROM LEAVING THE CONSTRUCTION AREAS AND ENTERING EXISTING STORMWATER FACILITIES AND SURFACE WATERS. ADDITIONAL MEASURES BEYOND THOSE SHOWN WITHIN THESE PLANS MAY BE NECESSARY DURING CONSTRUCTION, INCLUDING TEMPORARY VEGETATIVE MEASURES AND INSTALLATION OF OTHER SILT TRAPPING MEASURES.
- THE CONTRACTOR IS REQUIRED TO ADJUST THE EROSION AND SEDIMENT CONTROLS AS NECESSARY AND AS SHOWN ON THE DRAWINGS: AND ADD ADDITIONAL CONTROL MEASURES AS REQUIRED TO INSURE THE SITE MEETS ALL FEDERAL, STATE AND LOCAL EROSION AND SEDIMENT CONTROL REQUIREMENTS.
- ALL BEST MANAGEMENT EROSION AND SEDIMENT CONTROL PRACTICES WILL BE INSPECTED BY THE SUPERINTENDENT, THE PERSON RESPONSIBLE FOR THE DAY TO DAY OPERATIONS: OR SOMEONE APPOINTED BY THE SUPERINTENDENT, AT LEAST EVERY OTHER WEEK AND FOLLOWING A STORM EVENT OF 0.5 INCHES OR
- ALL BEST MANAGEMENT CONTROL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER; IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF REPORT

- IN THE EVENT OF ANY UNFORESEEN CONDITIONS THAT ARE ENCOUNTERED AND NOT COVERED BY THESE NOTES DURING GRADING OPERATIONS, THE ENGINEER SHALL BE IMMEDIATELY NOTIFIED FOR DIRECTION.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ALL NECESSARY CUTS AND FILLS WITHIN THE LIMITS OF THIS PROJECT AND RELATED OFF-SITE WORK SO AS TO ESTABLISH THE DESIRED SUBGRADE, FINISH GRADES AND SLOPES SPECIFIED WITHIN THE PLANS.
- ADEQUATE SHORING IS TO BE DESIGNED AND PROVIDED BY THE CONTRACTOR TO PREVENT UNDERMINING OF ANY ADJACENT FEATURES OR FACILITIES AND/OR CAVING OF THE EXCAVATION. ALL SHORING AND ASSOCIATED TEMPORARY STRUCTURES SHALL BE DESIGNED BY A LICENSED PROFESSIONAL AND INSTALLED PURSUANT TO OSHA REQUIREMENTS.

SOIL MATERIALS:

- 1. UNSATISFACTORY SOILS CONSIST OF SOIL CLASSIFICATION GROUPS ML, OL, CH, MH, OH, AND PT, OR A COMBINATION OF THESE GROUPS. UNSATISFACTORY SOILS ALSO INCLUDE SATISFACTORY SOILS NOT MAINTAINED WITHIN 3 PERCENT OF OPTIMUM MOISTURE CONTENT AT TIME OF COMPACTION.
- SATISFACTORY SOILS: ASTM D 2487 SOIL CLASSIFICATION GROUPS AS IDENTIFIED ON THE DRAWINGS, OR A COMBINATION OF THESE GROUPS; FREE OF ROCK OR GRAVEL LARGER THAN 3 INCHES IN ANY DIMENSION, DEBRIS WASTE, FROZEN MATERIALS, VEGETATION, AND OTHER DELETERIOUS MATERIAL.

- PROOF-ROLL SUBGRADE BELOW THE BUILDING SLABS AND PAVEMENTS WITH HEAVY PNEUMATIC-TIRED EQUIPMENT TO IDENTIFY SOFT POCKETS AND AREAS OF EXCESS YIELDING. DO NOT PROOF-ROLL WET OR SATURATED SUBGRADES. a. COMPLETELY PROOF-ROLL SUBGRADE IN TWO DIRECTIONS, REPEATING PROOF ROLLING IN DIRECTION PERPENDICULAR TO FIRST DIRECTION. LIMIT VEHICLE SPEED TO 3 MPH,
 - b. PROOF-ROLL WITH A LOADED 10-WHEEL, TANDEM-AXLE DUMP TRUCK WEIGHING NOT LESS THAN 15 TONS.
 - c. EXCAVATE SOFT SPOTS, UNSATISFACTORY SOILS. AND AREAS OF EXCESSIVE PUMPING OR RUTTING, AS DETERMINED BY ENGINEER AND REPLACE WITH COMPACTED BACKFILL OR FILL AS DIRECTED.
- RECONSTRUCT SUBGRADES DAMAGED BY FREEZING TEMPERATURES, FROST. RAIN, ACCUMULATED WATER, OR CONSTRUCTION ACTIVITIES AS DIRECTED BY ENGINEER, WITHOUT ADDITIONAL COMPENSATION.

- THE CONTRACTOR SHALL PLACE AND COMPACT BACKFILL IN EXCAVATIONS PROMPTLY, BUT NOT BEFORE COMPLETING THE FOLLOWING: a. CONSTRUCTION BELOW FINISH GRADE INCLUDING, WHERE APPLICABLE, SUBDRAINAGE, DAMP PROOFING, WATERPROOFING, AND PERIMETER
- INSULATION. b. SURVEYING LOCATIONS OF UNDERGROUND UTILITIES FOR RECORD
- DRAWINGS c. TESTING AND INSPECTING UNDERGROUND UTILITIES.
- d. REMOVING CONCRETE FORMWORK
- e. REMOVING TRASH AND DEBRIS.
- f. REMOVING TEMPORARY SHORING AND BRACING, AND SHEETING. g. INSTALLING PERMANENT OR TEMPORARY HORIZONTAL BRACING ON

HORIZONTALLY SUPPORTED WALLS. COMPACTION OF SOIL BACKFILLS AND FILLS:

- CONTRACTOR SHALL PLACE BACKFILL AND FILL MATERIALS IN LAYERS NOT MORE THAN 8-INCHES IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HEAVY COMPACTION EQUIPMENT, AND NOT MORE THAN 4-INCHES IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HAND-OPERATED TAMPERS.
- 2. PLACE BACKFILL AND FILL SOIL MATERIALS EVENLY ON ALL SIDES OF STRUCTURES TO REQUIRED ELEVATIONS, AND UNIFORMLY ALONG THE FULL LENGTH OF EACH STRUCTURE.
- COMPACT SOIL MATERIALS TO NOT LESS THAN THE PLAN SPECIFIED PERCENTAGES OF MAXIMUM DRY UNIT WEIGHT ACCORDING TO ASTM D 698 OR ASTM D 1557. (SEE CIVIL DETAILS FOR SUMMARY OF TRENCH BACKFILL AND BEDDING MATERIALS AND PLACEMENT SPECIFICATIONS).

- GENERAL: UNIFORMLY GRADE AREAS TO A SMOOTH SURFACE. FREE OF IRREGULAR SURFACE CHANGES. COMPLY WITH COMPACTION REQUIREMENTS AND GRADE TO DETAILED/INDICATED CROSS-SECTIONS. LINES, AND ELEVATIONS INDICATED IN PLANS. PROVIDE A SMOOTH TRANSITION BETWEEN ADJACENT EXISTING GRADES AND NEW GRADES. CUT OUT SOFT SPOTS, FILL LOW SPOTS, AND TRIM HIGH SPOTS TO COMPLY WITH REQUIRED SURFACE TOLERANCES.
- SITE GRADING: SLOPE GRADES TO DIRECT WATER AWAY FROM BUILDINGS AND TO PREVENT PONDING. FINISH SUBGRADES TO REQUIRED ELEVATIONS WITHIN THE FOLLOWING TOLERANCES: a. LAWN OR UNPAVED AREAS: PLUS OR MINUS ONE (1) INCH.
- b. WALKS: PLUS OR MINUS ONE (1) INCH. c. PAVEMENTS: PLUS OR MINUS ONE-HALF (1/2) INCH. d. GRADING INSIDE BUILDING LINES: FINISH SUBGRADE TO A TOLERANCE OF

- ONE-HALF (1/2) INCH WHEN TESTED WITH A 10-FOOT STRAIGHTEDGE.
- SUBBASE AND BASE COURSES: a. PLACE SUBBASE AND BASE COURSE ON SUBGRADES FREE OF MUD, FROST, SNOW, OR ICE.

THICKNESS IN LAYERS OF EQUAL THICKNESS, WITH NO COMPACTED LAYER

- b. PLACE SUBBASE AND BASE COURSE 6 INCHES OR LESS IN COMPACTED THICKNESS IN A SINGLE LAYER.
- c. PLACE SUBBASE AND BASE COURSE EXCEEDING 6 INCHES IN COMPACTED
- MORE THAN 6 INCHES THICK OR LESS THAN 3 INCHES. COMPACT SUBBASE AND BASE COURSE AT OPTIMUM MOISTURE CONTENT TO
- REQUIRED GRADES, LINES. CROSS SECTIONS. AND THICKNESS ACCORDING TO ASTM D 698 OR ASTM D 1557, AS INDICATED ON THE DRAWING DETAILS.

- THE TESTING AGENCY WILL INSPECT AND TEST SUBGRADES AND EACH FILL OR BACKFILL LAYER. CONTRACTOR SHALL PROCEED WITH SUBSEQUENT EARTHWORK ONLY AFTER TEST RESULTS FOR PREVIOUSLY COMPLETED WORK COMPLY WITH REQUIREMENTS.
- FOOTING SUBGRADE: AT FOOTING SUBGRADES, AT LEAST ONE TEST OF EACH SOIL STRATUM WILL BE PERFORMED TO VERIFY DESIGN BEARING CAPACITIES. SUBSEQUENT VERIFICATION AND APPROVAL OF OTHER FOOTING SUBGRADES MAY BE BASED ON A VISUAL COMPARISON OF SUBGRADE WITH TESTED SUBGRADE WHEN APPROVED BY ENGINEER.
- THE TESTING AGENCY WILL TEST COMPACTION OF SOILS IN PLACE ACCORDING TO ASTM D 1556, ASTM D 2167, ASTM D 2922, AND ASTM D 2937, AS APPLICABLE TESTS WILL BE PERFORMED AT THE FOLLOWING LOCATIONS AND FREQUENCIES: a. PAVED AND BUILDING SLAB AREAS: AT SUBGRADE AT EACH COMPACTED FILL AND BACKFILL LAYER, AT LEAST 1 TEST FOR EVERY 10,000 SQ. FT. OR LESS OF

PAVED AREA OR BUILDING SLAB, BUT IN NO CASE FEWER THAN 3 TESTS.

b. FOUNDATION WALL BACKFILL: AT EACH COMPACTED BACKFILL LAYER, AT

- LEAST 1 TEST FOR EACH 100 FEET OR LESS OF WALL LENGTH, BUT NO FEWER THAN 2 TESTS. c. TRENCH BACKFILL: AT EACH COMPACTED INITIAL AND FINAL BACKFILL LAYER, AT LEAST 1 TEST FOR EACH 150 FEET OR LESS OF TRENCH LENGTH, BUT NO
- IF THE TESTING AGENCY REPORTS THAT SUBGRADES, FILLS, OR BACKFILLS HAVE NOT ACHIEVED DEGREE OF COMPACTION SPECIFIED, SCARIFY AND MOISTEN OR AERATE, OR REMOVE AND REPLACE SOIL TO DEPTH REQUIRED;
- ALL FIELD QUALITY CONTROL TESTS THAT FAIL TO MEET THE SPECIFIED

COMPACTION DENSITY SHALL BE REPORTED TO THE ENGINEER.

RECOMPACT AND RETEST UNTIL SPECIFIED COMPACTION IS OBTAINED.

GENERAL UTILITY NOTES

FEWER THAN 2 TESTS.

- PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES FOR VERIFICATION OF UTILITIES WITHIN THE LIMITS OF CONSTRUCTION. CALL THE AREA ONE CALL SYSTEM 48 HOURS PRIOR TO ANY
- THE CONTRACTOR IS TO VERIFY ALL DIMENSIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER.
- THE CONTRACTOR SHALL COORDINATE WORK EFFORTS WITH THE OWNER TO MINIMIZE TRAFFIC INTERFERENCE AND OPERATIONS OF THE FACILITIES.
- THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT EXISTING PERMANENT SURVEYING MONUMENTS AND BENCHMARKS FROM DISTURBANCE. SURVEY MONUMENTS DISTURBED BY CONSTRUCTION ARE TO BE REPLACED AND ADJUSTED VIA A LAND SURVEYOR REGISTERED IN THE STATE FOR WHICH THE PROJECT IS LOCATED.

EXISTING UTILITIES SHOWN HEREIN ARE BASED ON AVAILABLE RECORDS AND

- FIELD INVESTIGATIONS. THE CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATIONS OF UTILITIES PRIOR TO EXCAVATION WITHIN WORK AREAS. THE ENGINEER SHALL BE NOTIFIED UPON DISCOVERY OF ANY DISCREPANCIES THAT WILL AFFECT INSTALLATION OF WORK OR DISCOVERY OF JNCHARTED UTILITIES WHICH MAY REQUIRE RELOCATION. NOTIFICATION SHALL BE DONE IN A TIMELY MANNER.
- WHERE APPLICABLE, THE CONTRACTOR SHALL MAINTAIN ALL FENCING, SIGNS, DETOURS, FLAGMEN, SIGNALS, ETC., FOR ANY OPEN TRENCHES, HOLES OR PITS. ALL TRENCHES, HOLES OR PITS SHALL BE CLOSED OR PROTECTED BY BARRICADES AT THE END OF THE DAY.
- CONTRACTOR IS TO ACKNOWLEDGE AND SECURE ALL PERMITS AND INSPECTIONS REQUIRED FOR WORK WITHIN PUBLIC RIGHT-OF-WAY. THE CONTRACTOR SHALL MAINTAIN RECORD DRAWINGS DURING CONSTRUCTION WHICH SHOW THE CONSTRUCTED CONDITIONS OF ALL WORK
- INSTALLED. SEE "AS-BUILT" REQUIREMENTS FOR ADDITIONAL INFORMATION. 9. ALL VALVE BOXES, METER BOXES, VAULTS, CLEANOUTS, HOLE COVERS, FIRE HYDRANTS AND OTHER APPURTENANCES THAT ARE TO REMAIN IN SERVICE WITHIN THE PROJECT AREA SHALL BE ADJUSTED TO CONFORM TO FINISHED
- ALL UNDERGROUND UTILITIES MUST BE IN PLACE, TESTED AND INSPECTED AS
- REQUIRED PRIOR TO BASE AND SURFACE CONSTRUCTION. 11. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY ALL UTILITY COMPANIES TO DISCONNECT OR REMOVE THEIR FACILITIES PRIOR TO REMOVING OR
- DEMOLISHING ANY EXISTING STRUCTURES FROM THE SITE. ALL UTILITIES INCLUDING, BUT NOT NECESSARILY LIMITED TO, THE FOLLOWING SHOULD BE CONTACTED BY THE CONTRACTOR:
- GAS TELEPHONE

BE ALLOWED.

- CABLE
- POWER
- CITY/COUNTY WATER AND SEWER CITY/COUNTY/STATE TRAFFIC SIGNAL UTILITY (FIBER, HARDWIRE TRAFFIC SIGNAL INTERCONNECT)
- 13. THE LOCATION OF ALL EXISTING UTILITIES SHOWN ON THE PLANS HAVE BEEN DETERMINED THE ENGINEER ASSUMES NO RESPONSIBILITY FOR FROM THE BEST INFORMATION AVAILABLE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE VARIOUS ACCURACY. UTILITIES AND TO MAKE THE NECESSARY ARRANGEMENTS FOR ANY RELOCATIONS UTILITIES WITH THE OWNER OF THE UTILITY. THE CONTRACTOR SHALL EXERCISE OF THESE CAUTION WHEN CROSSING ANY UNDERGROUND UTILITY, WHETHER SHOWN ON THE PLANS OR LOCATED BY THE UTILITY COMPANY. ALL UTILITIES WHICH INTERFACE WITH THE PROPOSED CONSTRUCTION SHALL BE RELOCATED BY THE RESPECTIVE UTILITY COMPANIES AND THE CONTRACTOR SHALL COOPERATE WITH THE UTILITY COMPANIES DURING RELOCATION OPERATIONS. ANY DELAY OR INCONVENIENCE CAUSED TO THE CONTRACTOR BY THE VARIOUS UTILITIES SHALL BE INCIDENTAL TO THE CONTRACT AND NO EXTRA COMPENSATION WILL
- 14. COLOR CODE FOR MARKING UNDERGROUND UTILITY LINES

WHITE - PROPOSED EXCAVACTION. PINK - TEMPORARY SURVEY MARKINGS. RED - ELECTRIC POWER LINES, CABLES, CONDUIT AND LIGHTING CABLES. YELLOW - GAS, OIL, STEAM, PETROLEUM, OR GASEOUS MATERIALS. ORANGE - COMMUNICATION, ALARM OR SIGNAL LINES, CABLES OR CONDUIT. BLUE - POTABLE WATER. PURPLE - RECLAIMED WATER, IRRIGATION AND SLURRY LINES. GREEN - SEWERS AND DRAIN LINES.

WATER SYSTEM NOTES

SANITARY NOTE No. 1 BELOW.

- A VERTICAL CLEARANCE OF 18 INCHES SHALL BE MAINTAINED BETWEEN SANITARY SEWERS AND WATER MAINS. IF CLEARANCE CANNOT BE ACHIEVED BY ADJUSTING WATER MAINS THE SANITARY SEWER SHALL BE CONSTRUCTED PER
- A HORIZONTAL SEPARATION OF 10 FEET SHALL BE MAINTAINED BETWEEN WATER
- MAINS AND SANITARY SEWER
- ALL WATER SYSTEM WORK SHALL CONFORM WITH LOCAL REGULATORY STANDARDS AND SPECIFICATIONS.

ALL WATER MAINS SHALL HAVE A MINIMUM OF 36 INCHES OF COVER.

- CONFLICTS BETWEEN WATER AND STORM OR SANITARY SEWER TO BE RESOLVED BY ADJUSTING THE WATER LINES AS NECESSARY.
- ALL BURIED DUCTILE IRON PIPE SHALL BE CLASS 53 IN ACCORDANCE WITH ANSI A 21.50 (AWWA C150) AND ANSI A 21.51 (AWWA C151) AND PIPE SHALL RECEIVE EXTERIOR BITUMINOUS COATING IN ACCORDANCE WITH ANSI A 21.6, A 21.8 OR A 21.51 AND SHALL BE MORTAR LINED, STANDARD THICKNESS, AND BITUMINOUS

SEALED IN ACCORDANCE WITH ANSI A (AWWA C 104-71).

- ALL BURIED FITTINGS LARGER THAN 2" SHALL BE DUCTILE IRON CLASS 53 IN ACCORDANCE WITH AWWA C-110 WITH A PRESSURE RATING OF 350 PSI. JOINTS SHALL BE MECHANICAL JOINTS IN ACCORDANCE WITH AWWA C-111. FITTINGS SHALL BE CEMENT MORTAR LINED AND COATED IN ACCORDANCE WITH AWWA
- CONTRACTOR TO INSTALL TEMPORARY BLOW-OFFS AT THE END OF WATER

SERVICE LATERALS TO ASSURE ADEQUATE FLUSHING AND DISINFECTION.

- THRUST BLOCKING AND/OR RESTRAINED JOINTS SHALL BE PROVIDED AT ALL FITTINGS AND HYDRANTS IN ACCORDANCE WITH AWWA STANDARDS.
- ALL PVC WATER MAINS 4" THROUGH 12" SHALL BE IN ACCORDANCE WITH AWWA C-900. PIPE SHALL BE CLASS 150 AND MEET THE REQUIREMENTS OF SDR 18 IN ACCORDANCE WITH ASTM D-2241, AND COLOR CODED BLUE. 11. ALL FITTINGS 3" AND SMALLER SHALL BE CLASS 160 PVC WITH SOLVENT WELDED
- SLEEVE TYPE JOINTS. 12. ALL WATER MAINS AND WATER SERVICES TO BE INSTALLED UNDER ROAD

UNDERDRAIN SHALL MAINTAIN 18" SEPARATION.

- 13. MATERIALS AND CONSTRUCTION METHODS FOR WATER DISTRIBUTION SYSTEM SHALL BE IN ACCORDANCE WITH THE LOCAL REGULATORY AGENCY CODES, PLANS, AND SPECIFICATIONS FOR CONSTRUCTION, LATEST REVISION THEREOF AND SUPPLEMENTAL SPECIFICATIONS THERETO. APPROVAL AND CONSTRUCTION OF ALL POTABLE WATER SERVICE MAIN EXTENSIONS AND CONNECTIONS MUST BE COORDINATED THROUGH THE LOCAL REGULATORY AGENCY DEPARTMENT OF PUBLIC UTILITIES.
- ALL COMPONENTS OF THE WATER SYSTEM, INCLUDING FITTINGS, HYDRANTS, CONNECTIONS, AND VALVES SHALL REMAIN UNCOVERED UNTIL PROPERLY PRESSURE TESTED AND ACCEPTED BY THE OWNER'S ENGINEER. PRESSURE TESTS TO BE IN ACCORDANCE WITH WATER DEPARTMENT AND AWWA SPECIFICATIONS. CONTRACTOR TO NOTIFY OWNER'S ENGINEER AND WATER DEPARTMENT INSPECTORS 48 HOURS IN ADVANCE OF PERFORMING TESTS.
- CONTRACTOR TO PERFORM CHLORINATION AND BACTERIOLOGICAL SAMPLING REQUIRED TO OBTAIN CLEARANCE OF DOMESTIC WATER SYSTEM THROUGH LOCAL REGULATORY AGENCIES. COPIES OF ALL BACTERIOLOGICAL TESTS TO BE SUBMITTED TO OWNER'S ENGINEER

SANITARY SEWER NOTES

- A HORIZONTAL SEPARATION OF 10 FEET SHALL BE MAINTAINED BETWEEN WATER MAINS AND SANITARY SEWER.
- ALL SANITARY SEWER MAINS & SERVICE LATERALS SHALL BE CONSTRUCTED OF POLYVINYL CHLORIDE PIPE, SDR 26 AND COLOR CODED GREEN.
- ALL SANITARY SEWER WORK SHALL CONFORM WITH LOCAL REGULATORY STANDARDS AND SPECIFICATIONS. PRIOR TO COMMENCING WORK WHICH REQUIRES CONNECTING NEW WORK TO

EXISTING LINES OR APPURTENANCES, THE CONTRACTOR SHALL VERIFY

LOCATION AND ELEVATION OF EXISTING CONNECTION POINT AND NOTIFY OWNER'S ENGINEER OF ANY CONFLICTS OR DISCREPANCIES. PVC PIPE AND FITTINGS SHALL CONFORM WITH A.S.T.M. SPECIFICATIONS PERMITS MAY BE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT-OF-WAY. THE 5. DESIGNATION D-3034-77C. MA SDR 26. INSTALLATION OF SDR PIPE SHALL BE IN

STRICT ACCORDANCE WITH THE REQUIREMENTS OF A.S.T.M. SPECIFICATION

DESIGNATION D2321. ALL SANITARY SEWER PIPELINES SHALL BE SOLID GREEN IN

- ALL PVC FORCE MAINS WITHIN PUBLIC R/W SHALL BE CLASS 200. SDR 18. WITH MECHANICAL JOINTS, AND HAVE A GREEN MAGNETIC TAPE A MINIMUM OF 3" WIDE, PLACED 24" BELOW THE PROPOSED GRADE. THE PRINT ON THE MAGNETIC
- TAPE SHOULD READ "FORCE MAIN". ALL SANITARY SEWER GRAVITY MAINS OR SANITARY SEWER FORCE MAINS THAT
- ALL SANITARY SEWER COVERS SHALL BE TRAFFIC RATED FOR H-20 LOADING.

REQUIRE D.I.P. ARE TO BE POLYLINED OR EPOXY LINED.

- SANITARY SEWERS SHALL HAVE A MINIMUM COVER OF THREE (3) FEET AND SHALL BE INSTALLED ACCOMPANIED BY A METAL TAPE SIMILAR TO "TERRATAPE"
- COLORED GREEN AND LAID ONE FOOT ABOVE THE PIPE. ALL GRAVITY SEWER PIPING SHALL BE SUBJECT TO A VISUAL INSPECTION BY THE OWNER'S ENGINEER. CONTRACTOR TO NOTIFY THE ENGINEER 48 HOURS IN
- ADVANCE TO SCHEDULE INSPECTION. 11. THE CONTRACTOR SHALL PERFORM AN INFILTRATION/EXFILTRATION TEST ON ALL GRAVITY SEWERS IN ACCORDANCE WITH THE REGULATORY AGENCY HAVING JURISDICTION. SAID TESTS ARE TO BE CERTIFIED BY THE ENGINEER AND

SUBMITTED TO THE REGULATORY AGENCY FOR APPROVAL. COORDINATION AND

NOTIFICATION OF ALL PARTIES IS THE CONTRACTOR'S RESPONSIBILITY.

12. ALL FORCE MAINS SHALL BE SUBJECT TO A HYDROSTATIC PRESSURE TEST IN ACCORDANCE WITH THE REGULATORY AGENCY HAVING JURISDICTION. SAID TESTS ARE TO BE CERTIFIED BY THE ENGINEER AND SUBMITTED TO THE REGULATORY AGENCY FOR APPROVAL COORDINATION AND NOTIFICATION OF ALL PARTIES IS CONTRACTOR'S RESPONSIBILITY.

GEOTECHNICAL NOTE

CONTRACTOR TO REVIEW AND FOLLOW CONSTRUCTION TECHNIQUES OUTLINED IN THE SITE GEOTECHNICAL REPORT

STORM DRAINAGE

USING ASTM F 477, ELASTOMERIC SEALS.

c. PIPE JOINTS SHALL BE WATER-TIGHT.

f. PIPE JOINTS SHALL BE WATER-TIGHT.

- UNLESS OTHERWISE SHOWN ON PLANS, ALL PVC PIPE AND FITTINGS SHALL CONFORM TO THE FOLLOWING:
 - a. PVC SEWER PIPE AND FITTINGS, NPS 15-INCH AND SMALLER ASTM D 3034, SDR 35, WITH BELL-AND-SPIOT ENDS FOR GASKETED JOINTS USING ASTM F
 - 477, ELASTOMERIC SEALS. b. PVC SEWER PIPE AND FITTINGS, NPS 18-INCH AND LARGER: ASTM F 679, T-1 WALL THICKNESS, WITH BELL-AND-SPIGOT ENDS FOR GASKETED JOINTS
- 2. UNLESS OTHERWISE SHOWN ON THE PLANS, ALL REINFORCED CONCRETE PIPE (RCP) AND FITTINGS SHALL CONFORM TO THE FOLLOWING: a. ASTM C 76, WITH BELL-AND-SPIGOT OR GROOVE AND TONGUE ENDS AND
- GASKETED JOINTS WITH ASTM C 443 RUBBER GASKETS. b. RCP PIPE SHALL BE CLASS III, WALL B.
- c. WHEN LOCATED IN TRAFFIC AREAS WITH LESS THAN 2 FEET OF COVER, RCP PIPE SHALL BE CLASS IV. WALL B.
- d. WHEN LOCATED UNDER AIRCRAFT RAMPS OR RAILROAD OPERATIONS, RCP PIPE SHALL BE CLASS V, WALL B WITH O-RING JOINTS.
- e. PIPE CLASS SHALL BE CLEARLY "STAMPED" ON EACH SEGMENT OF RCP PIPE DELIVERED TO THE PROJECT.
- CONTRACTOR SHALL HANDLE AND STORE PIPE, FITTINGS, GASKETS, AND RELATED APPURTENANCES IN ACCORDANCE WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS.
- 4. CONTRACTOR SHALL HANDLE MANHOLES. DROP INLETS, CURB INLETS, PIPE END COMPONENTS AND RELATED APPURTENANCES ACCORDING TO MANUFACTURER'S WRITTEN RIGGING INSTRUCTIONS.
- 5. PVC PLASTIC PIPE AND FITTINGS SHALL NOT BE STORED IN DIRECT SUNLIGHT.
- 6. ALL PIPE. FITTINGS, GASKETS, AND SEALS SHALL BE PROTECTED FROM DIRT
- ALL STORM SEWER LINES SHALL BE TELEVISED AND THE VIDEO REPORTS SUBMITTED TO THE ENGINEER FOR REVIEW
- a. VIDEO REPORTS ARE TO BE SUBMITTED ON CD-ROM OR DVD COMPACT DISKS. b. ALL LINES MUST BE FLUSHED AND CLEANED WITH POTABLE WATER PRIOR TO

c. FOR SUBMERGED SYSTEMS, POND WATER LEVELS SHALL BE LOWERED

d. VIDEO REPORTS WILL BE USED TO VIEW THE CONDITION OF THE STORM

(PUMPED DOWN) BELOW THE LOWEST PIPE ENTRANCE INVERT.

- SEWER PIPE PRIOR TO ACCEPTANCE. WORKMANSHIP AND CLEANLINESS OF THE INSTALLATION WILL BE CHECKED. AS-BUILT SURVEY: THE CONTRACTOR SHALL VERIFY STORM SEWER IMPROVEMENTS ALIGNMENT BY PROVIDING AN "AS-BUILT" SURVEY OF CONSTRUCTED CONDITIONS FROM A LICENSED SURVEYOR REGISTERED IN THE
- VERTICAL AND HORIZONTAL INFORMATION PERTAINING TO THE INSTALLATION OF THE STORM SEWER SYSTEM PIPING AND STRUCTURES. DATUM ELEVATION AND BENCHMARK LOCATIONS SHALL BE INDICATED. INFORMATION TO BE INCLUDED IS AS FOLLOWS: a. PIPE TYPE, SIZE. AND INVERT ELEVATIONS.

STATE OF PROJECT LOCATION. THE "AS-BUILT" SURVEY SHALL INCLUDE

b. MANHOLE, DROP INLET, CURB INLET, YARD DRAIN, AND POND CONTROL STRUCTURE LOCATIONS WITH ELEVATIONS OF BOTTOM, RIM OR GRATE ELEVATION SHOWN. c. POND CONTROL STRUCTURES: SHOW INFORMATION ON ALL FLOW CONTROL

APPURTENANCES AND OUTLET PIPING. **ASPHALT PAVING**

DEVICES": LATEST EDITION.

- 1. THE CONTRACTOR IS TO PROVIDE BARRICADES, SIGNS, FLASHERS, AND FLAG PERSONNEL AS NECESSARY TO INSURE THE SAFETY OF WORKERS AND VISITORS. ALL CONSTRUCTION SIGNING, BARRICADING, AND TRAFFIC DELINEATION IS TO CONFORM TO THE "MANUAL OF UNIFORM TRAFFIC CONTROL
- 2. ALL ASPHALT PAVING MATERIALS, WORKMANSHIP, AND INSTALLATION REQUIREMENTS SHALL COMPLY WITH THE STANDARD SPECIFICATIONS OF THE STATE DEPARTMENT OF TRANSPORTATION (D.O.T.) FOR THE STATE IN WHICH THE WORK OCCURS WITH SOME EXCLUSIONS. THE DOT PAYMENT PROCEDURES
- AND SAFETY REQUIREMENTS SHALL GENERALLY NOT APPLY. a. COARSE AGGREGATE. FINE AGGREGATE AND MINERAL FILLERS: IN ACCORDANCE WITH D.O.T. MATERIAL STANDARDS AND ASSOCIATED CONSTRUCTION SPECIFICATIONS.
- ACCORDANCE WITH D.O.T. MATERIAL STANDARDS AND ASSOCIATED CONSTRUCTION SPECIFICATIONS. c. JOINT SEALANT: ASTM 0 6690 OR AASHTO M 324. TYPE II OR III, HOT APPLIED, SINGLE COMPONENT, POLYMER-MODIFIED BITUMINOUS SEALANT.

d. PAVEMENT-MARKING PAINT: IN ACCORDANCE WITH D.O.T. MATERIAL

b. ASPHALT BINDER, ASPHALT CEMENT, PRIME COAT, AND TACK COAT: IN

- STANDARDS AND ASSOCIATED CONSTRUCTION SPECIFICATIONS. COLORS AS 3. DO NOT APPLY ASPHALT MATERIALS IF SUBGRADE IS FROZEN, WET, OR EXCESSIVELY DAMP; OR IF RAIN IS IMMINENT OR EXPECTED BEFORE TIME
- REQUIRED FOR ADEQUATE CURE. APPLY ONLY AT D.O.T. RECOMMENDED SURFACE TEMPERATURE.
- 4. INSTALLATION TOLERANCES: a. PAVEMENT THICKNESS: THE AVERAGE OF THE MEASURED THICKNESS OF THE
- PAVEMENT LAYERS SHALL MEET OR EXCEED THE REQUIRED THICKNESS FOR THOSE LAYERS, AND THE MINIMUM THICKNESS IN ANY ONE AREA SHALL NOT BE LESS THAN 0.25 INCHES BELOW THE REQUIRED THICKNESS. b. PAVEMENT SURFACE SMOOTHNESS: COMPACT EACH COURSE TO PRODUCE A SURFACE SMOOTHNESS WITHIN THE FOLLOWING TOLERANCES AS
- DETERMINED BY USING A 10-FOOT STRAIGHTEDGE APPLIED TRANSVERSELY OR LONGITUDINALLY TO PAVED AREAS:
- BASE COURSE: 1/4 -INCH SURFACE COURSE: 1/4 -INCH c. CROWNED SURFACES: TEST WITH CROWNED TEMPLATE CENTERED AND AT RIGHT ANGLE TO CROWN. MAXIMUM ALLOWABLE VARIANCE FROM TEMPLATE
- IS 1/4 -INCH. PAVEMENT MARKINGS SHALL BE MADE WITH NON-THERMOPLASTIC ACRYLIC MARKING PAINT MEETING THE DOT MATERIAL REQUIREMENTS. ALLOW PAVING TO AGE FOR 30 DAYS BEFORE STARTING PAVEMENT MARKING. PROCEED WITH PAVEMENT MARKING ONLY ON CLEAN, DRY SURFACES. SWEEP AND CLEAN SURFACE TO ELIMINATE LOOSE MATERIAL AND DUST. APPLY PAINT WITH MECHANICAL EQUIPMENT TO PRODUCE PAVEMENT MARKINGS, OF DIMENSIONS AND COLORS INDICATED, WITH UNIFORM, STRAIGHT EDGES. APPLY AT MANUFACTURER'S RECOMMENDED RATES TO PROVIDE A MINIMUM WET FILM THICKNESS OF 15 MILS AND ONLY AT MANUFACTURER'S RECOMMENDED

AS-BUILT SURVEY

b. ALL SANITARY SEWER

AMBIENT AND SURFACE TEMPERATURES.

UPON COMPLETION OF THE WORK, THE SITEWORK SUB-CONTRACTOR SHALL RETAIN THE SERVICES OF A PROFESSIONAL LAND SURVEYOR TO PERFORM AN "AS-BUILT" SURVEY. THE "AS-BUILT" SURVEY SHALL INCLUDE LOCATION AND ELEVATION DATA FOR ALL CONSTRUCTED IMPROVEMENTS. SPECIFIC INFORMATION INCLUDED IN THE SURVEY SHALL BE AS FOLLOWS:

a. ALL PAVEMENT SURFACES INCLUDING CURBS, WALKS, RAMPS, PADS, ETC.

- c. ALL STORM SEWER d. ALL STORM DETENTION, RETENTION, AND WATER QUALITY POND GRADING e. EMBANKMENT AND LAWN AREA GRADING
- f. BUILDING FINISH FLOOR ELEVATION g. BUILDING CORNER LOCATIONS h. OUT BUILDINGS, IF APPLICABLE

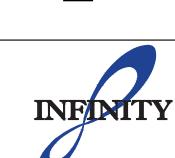
i. WATER, GAS, BURIED ELECTRIC AND BURIED TELECOM LINES

- j. LIGHT POLE LOCATIONS k. STRIPING AND PAVEMENT MARKINGS



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ISSUE BY DATE DESCRIPTION 08/16/24 | PERMIT SET 2 01/03/25 TRC ROUND 2

PROJECT INFORMATION BLOCK

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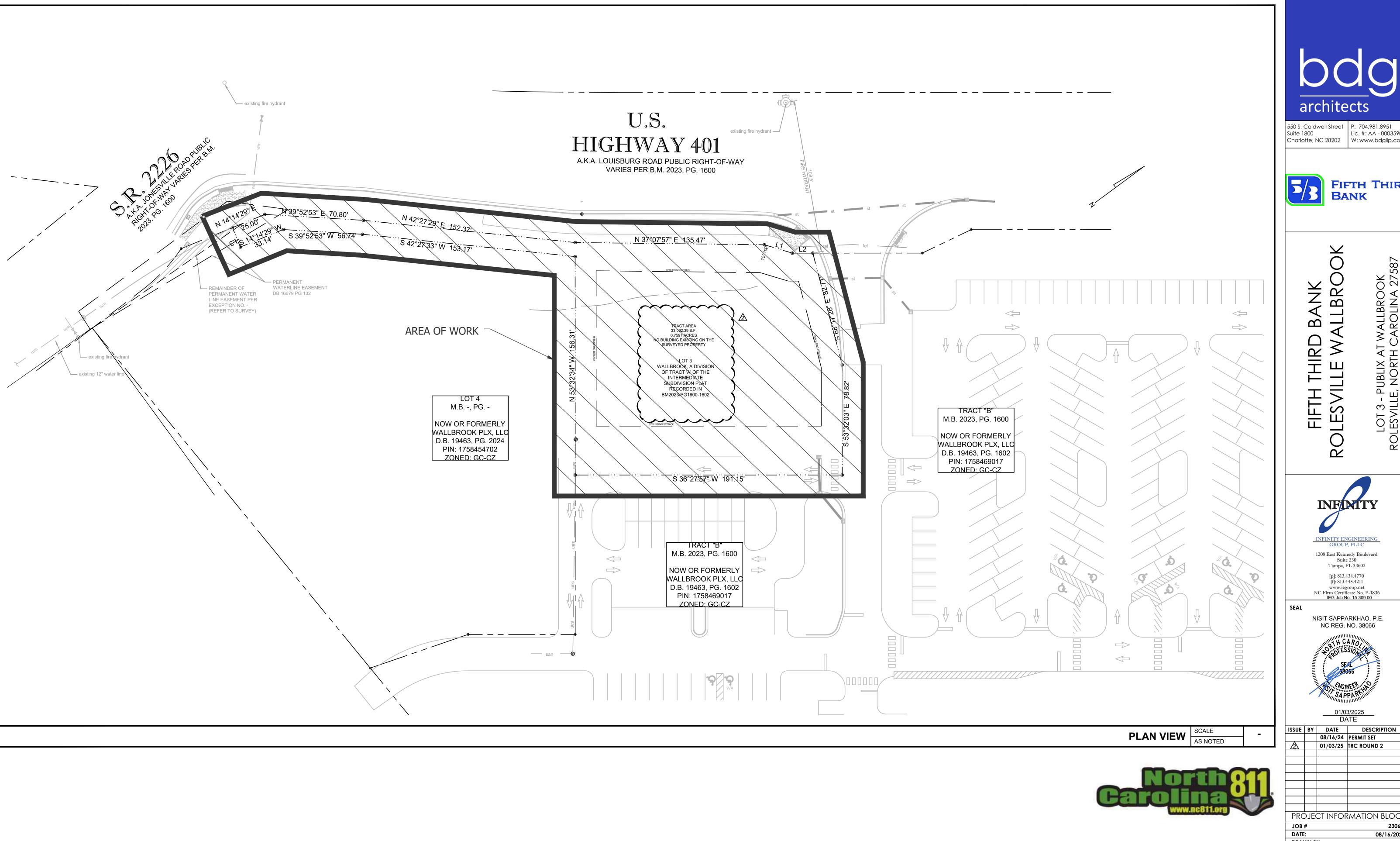
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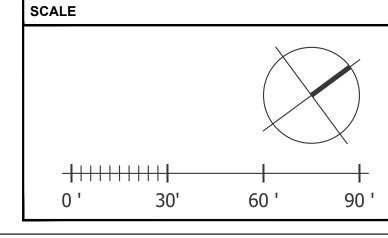
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CIVIL SPECIFICATIONS

I. TREE LOCATIONS WITH SIZE AND SPECIES

SIDP-24-07







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FIFTH THIRD BANK

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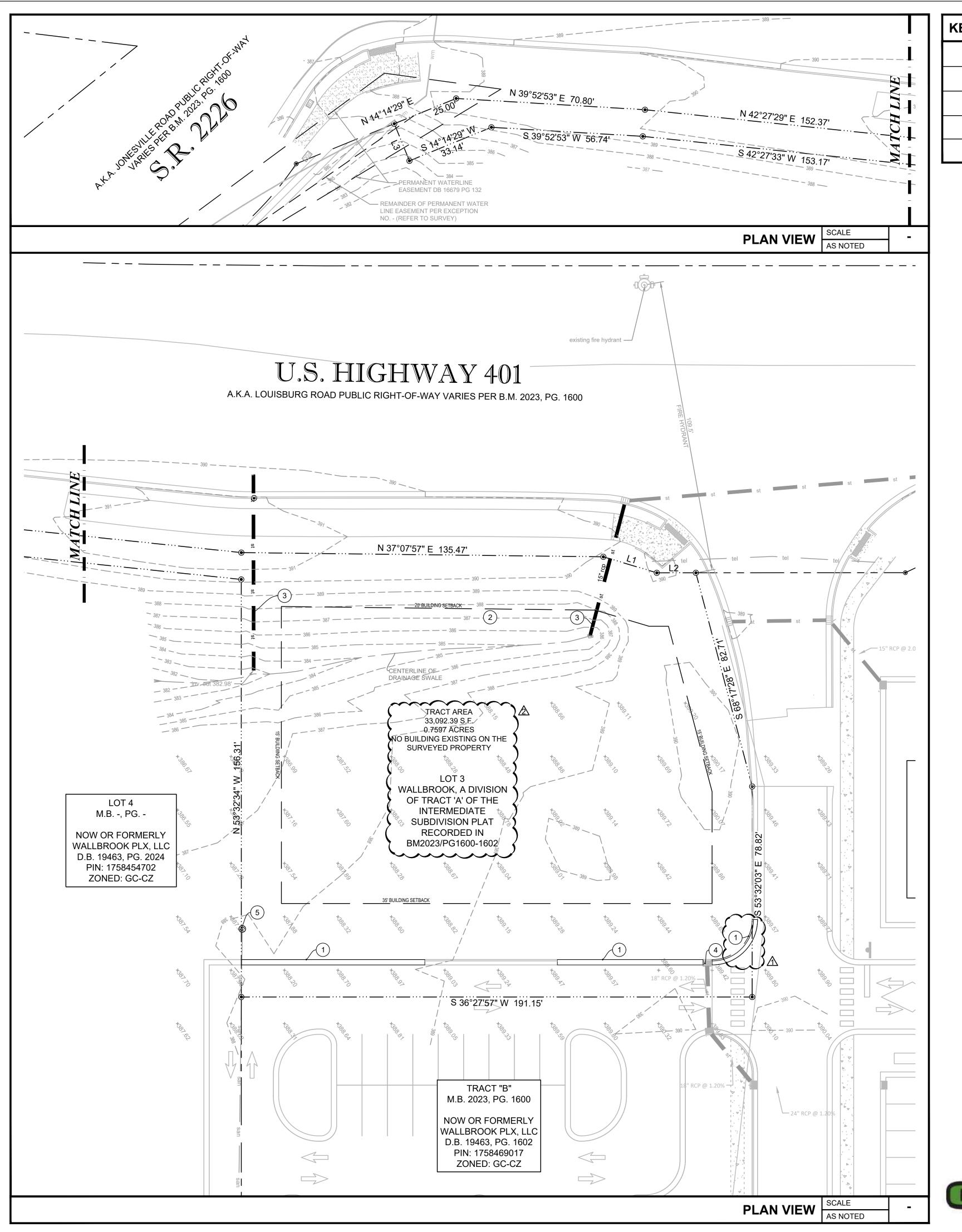
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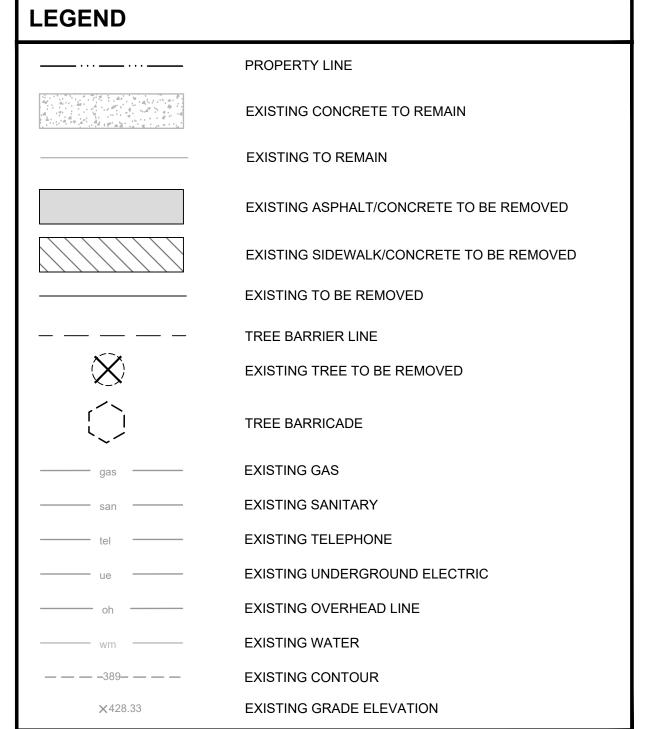
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KEYED NOTES PORTION OF EXISTING CURB AND GUTTER TO BE SAWCUT / REMOVED. EXISTING STORM DITCH TO BE REGRADED / FILLED BY THE DEVELOPER. EXISTING STORM PIPE TO BE REMOVED BY THE DEVELOPER. EXISTING STORM STRUCTURE TO REMAIN.

EXISTING SEWER MANHOLE TO REMAIN.



DEMOLITION NOTES

- . CONTRACTOR TO ESTABLISH AND PROPERLY FLAG PROPERTY LINES PRIOR TO DEMOLITION.
- 2. ALL ABOVE AND BELOW GROUND HARDWARE, EQUIPMENT AND MATERIALS TO BE DISPOSED OF IN ACCORDANCE WITH LOCAL MUNICIPALITY REQUIREMENTS.
- 3. UTILITIES TO BE PLUGGED SHALL BE FILLED WITH A MINIMUM 1.0 CUBIC FT. OF NON SHRINK GROUT OR AS OTHERWISE APPROVED BY ENGINEER.
- TREES SHOWN TO REMAIN SHALL MAINTAIN PROTECTIVE BARRIERS DURING DEMOLITION. THESE BARRIERS SHALL BE IN ACCORDANCE WITH CURRENT LOCAL MUNICIPALITY STANDARDS.
- THE CONTRACTOR SHALL COORDINATE THE REMOVAL OF EXISTING UTILITIES WITH THE OWNER OF SAID UTILITY. THIS SHALL INCLUDE BUT NOT BE LIMITED TO WATER, SEWER, GAS, CABLE TV, POWER AND TELEPHONE.
- 6. THE CONTRACTOR SHALL UTILIZE SUITABLE EROSION CONTROL DURING DEMOLITION, SEE "EROSION & SEDIMENT CONTROL DETAILS".
- 7. THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES PRIOR TO DEMOLITION AND WILL BE RESPONSIBLE FOR THE DAMAGE OF ANY ON-SITE OR OFF-SITE UTILITIES THAT ARE NOT A PART OF THIS PROJECT OR ARE NOT IDENTIFIED TO BE REMOVED.
- 8. ALL DISTURBED AREA WITH THE RIGHT OF WAY WILL BE RESTORED TO ORIGINAL OR BETTER CONDITION BY GRADING AND SODDING THE AREA DISTURBED.

TREE NOTE:

CONTRACTOR TO INSTALL TREE BARRICADES SURROUNDING ALL TREES TO REMAIN. IRRIGATE ALL LANDSCAPING AS NEEDED.

20'

40 '

60 '

architects 550 S. Caldwell Street | P: 704.981.8951 Lic. #: AA - 0003590 Suite 1800 Charlotte, NC 28202 | W: www.bdgllp.com FIFTH THIRD BANK





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SEAL NISIT SAPPARKHAO, P.E.



ISSUE	BY	DATE	DESCRIPTION
		08/16/24	PERMIT SET
Λ		10/28/24	TRC ROUND 1
2		01/03/25	TRC ROUND 2

PROJECT INFORMATION BLOCK

JOB# 230634 DATE: 08/16/2024 DRAWN BY: CHECKED BY:

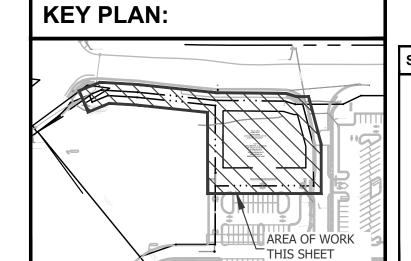
SHEET TITLE

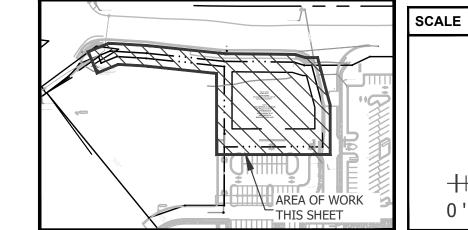
DEMOLITION PLAN

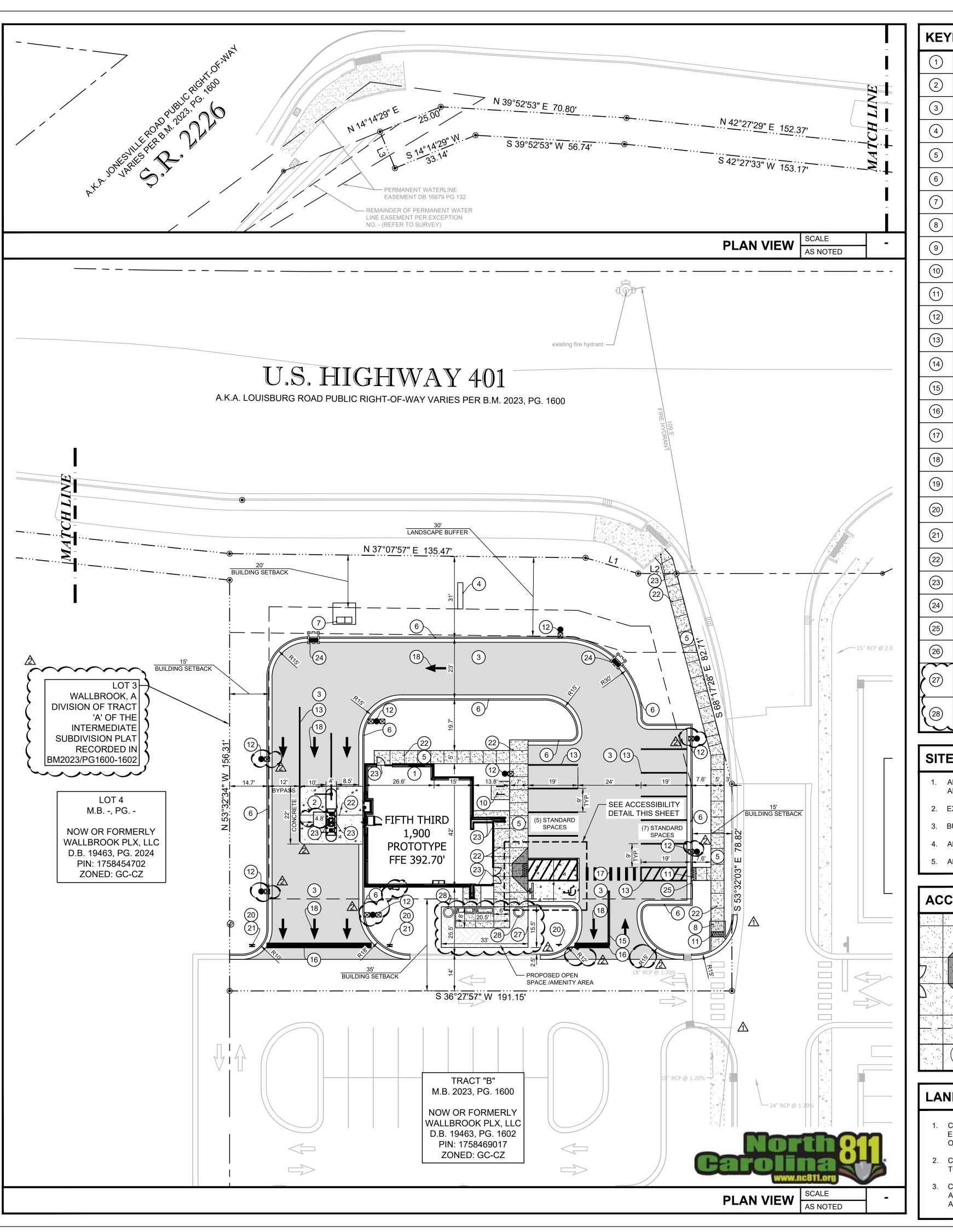
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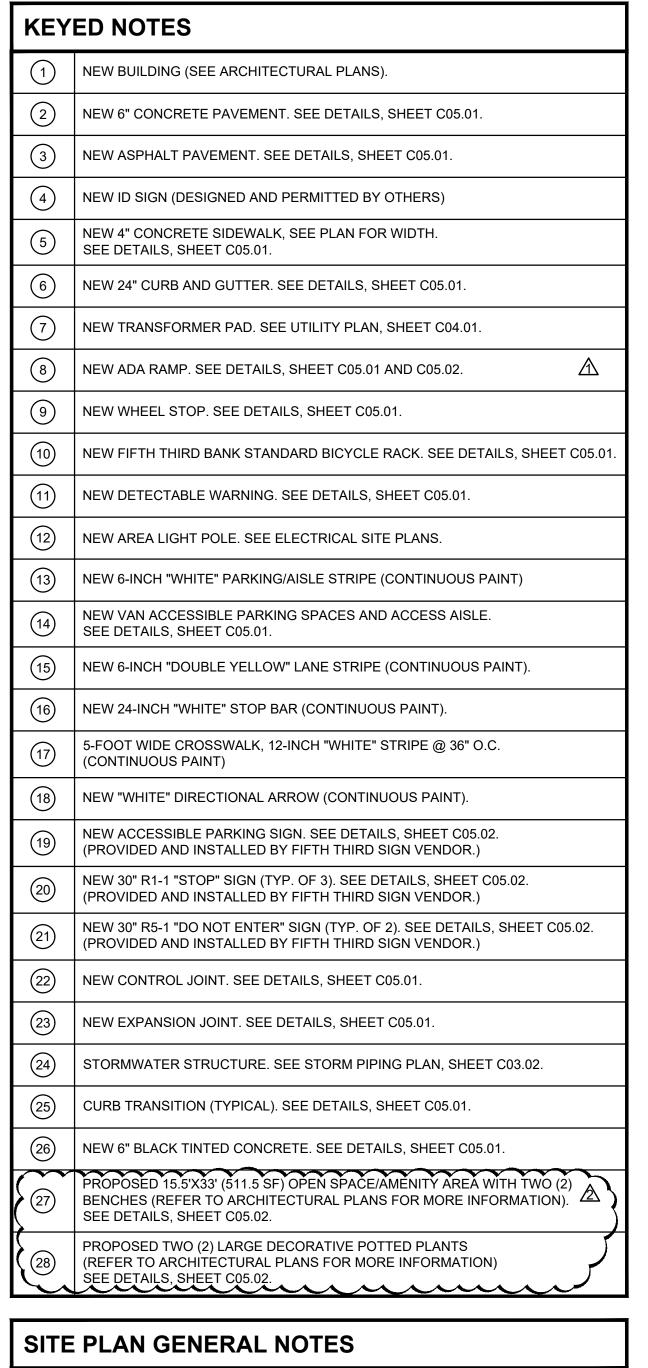
C01.01











ALL DIMENSIONS SHOWN ARE TO FACE OF CURB. BUILDING DIMENSIONS ARE TO FACE OF BUILDING.

2. EXISTING IMPROVEMENTS SHOWN ARE TAKEN FROM THE SURVEY.

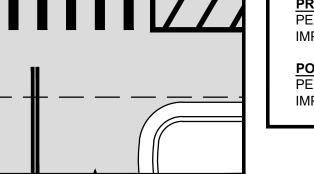
3. BUILDING AND SIDEWALK DIMENSIONS ARE TO OUTSIDE EDGE OF WALL

4. ALL TIES TO THE PROPERTY LINE ARE BASED ON THE SURVEY.

5. ALL CURB RADIUS ARE 3' UNLESS OTHERWISE NOTED

6

SCALE: 1' = 10 ACCESSIBILITY DETAIL

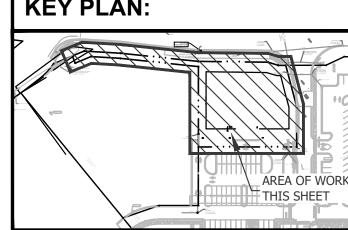


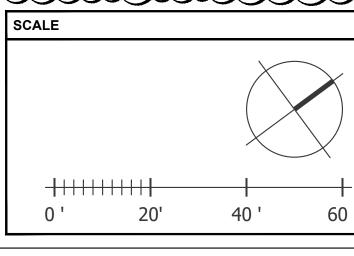
	ACRE	S.F.	PERCENT	
SITE AREA	0.76	33,092	100.00%	
DDE DEVELOPMENT				Λ
PRE-DEVELOPMENT				
PERVIOUS AREA:	0.69	30,367	92.00%	
IMPERVIOUS AREA:	0.06	2,725	8.00%	
POST-DEVELOPMENT				
PERVIOUS AREA:	0.34	14,905	45.00%	
IMPERVIOUS AREA:	0.42	18,187	55.00%	

LANDSCAPE NOTE:

- CONTRACTOR TO RE-GRADE SURROUNDING GRADE ELEVATION AND RE-SOD AS NEED TO MEET PROPOSED TOP OF SIDEWALK ELEVATIONS.
- 2. CONTRACTOR SHALL REPLACE ALL DISTURBED LANDSCAPING TO MATCH EXISTING.
- CONTRACTOR SHALL TIE INTO EXISTING IRRIGATION SYSTEM AND EXTEND NEW DRIP IRRIGATION AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION.

KEY PLAN:







550 S. Caldwell Street | P: 704.981.8951 Suite 1800 Lic. #: AA - 0003590 Charlotte, NC 28202 W: www.bdgllp.com



FIFTH THIRD

SITE DATA SITE ADDRESS: LOT 3 - PUBLIX AT WALLBROOK ROLESVILLE, NC 27587 76667 76635 BUILDING AREA: 2,084 GSF BUILDING **EXISTING ZONING:** GC-CZ 33,092 SF / 0.76 AC SITE AREA: **EXISTING USE:** VACANT **FUTURE USE:** BANK WITH DRIVE THRU

PROPERTY LINE

EXISTING TO REMAIN

NEW ASPHALT PAVEMENT

PROPOSED AMENITY AREA

PROPOSED CURB AND GUTTER

SETBACK/BUFFER

PROPOSED CURB

~~~~~~~

EXISTING CONCRETE TO REMAIN

PROPOSED CONCRETE LESS THAN 6"

PROPOSED CONCRETE 6" OR GREATER

PARKING DATA

LEGEND

_ _ . . . _ . . . _

4. 4. 4. 4.

BANK PARKING REQUIRED: MAX. 6 SPACES PER 1000 SF OF G.F.A. 2,084 SF x (6 SPACES/1000 SF) = 13 SPACES

> MIN. 2.5 SPACES PER 1000 SF OF G.F.A. 2,084 SF x (2.5 SPACES/1000 SF) = 6 SPACES

> > = 0'

TOTAL PARKING PROVIDED: STANDARD PARKING = 12 SPACES ADA PARKING = 1 SPACE

TOTAL PARKING PROVIDED = 13 SPACES

PARKING SPACE SIZE: 9'x 19' MINIMUM

LOADING ZONE: *NOTE-FINANCIAL INSTITUTIONS DO NOT USE LOADING ZONES FOR SECURITY PURPOSES DELIVERY TRUCK WILL PARK DIRECTLY IN FRONT

OF MAIN ENTRANCE.

LANDSCAPE REQUIREMENTS: REQUIRED LANDSCAPE BUFFER - FRONT (S. MAIN ST) = 30' LANDSCAPE BUFFER - SIDES = 0' LANDSCAPE BUFFER - REAR

BUILDING REQUIREMENTS: <u>REQUIRED</u>

BUILDING SETBACK - FRONT (S. MAIN ST) = 20' **BUILDING SETBACK - SIDES** = 15' = 35' **BUILDING SETBACK - REAR** MAXIMUM BUILDING HEIGHT = 35'

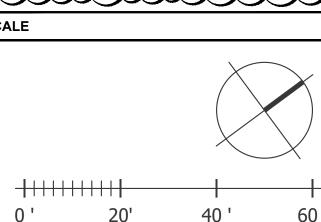
FLOOD ZONE:

THE SUBJECT PROPERTY IS LOCATED IN FLOOD ZONE X

REFUSE CONTAINER ON LOT 2 WILL BE SHARED WITH THIS DEVELOPMENT. FIFTH THIRD BANK TO COORDINATE WITH THE DEVELOPER FOR A SHARED DUMPSTER AGREEMENT.

DDE VS DOST SITE ADEAS

RE VS POST SITE AREAS					
	ACRE	S.F.	PERCENT		
SITE AREA	0.76	33,092	100.00%		
PRE-DEVELOPMENT PERVIOUS AREA: IMPERVIOUS AREA:	0.69 0.06	30,367 2,725	92.00% 8.00%	Δ	
POST-DEVELOPMENT PERVIOUS AREA: IMPERVIOUS AREA:	0.34 0.42	14,905 18,187	45.00% 55.00%		



PROJECT INFORMATION BLOCK JOB# 230634 08/16/2024 DRAWN BY: CHECKED BY: SHEET TITLE

INFINITY

INFINITY ENGINEERING GROUP, PLLC

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Suite 230

Tampa, FL 33602

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NC Firm Certificate No. P-1836

IEG Job No. 15-309.00

NISIT SAPPARKHAO, P.E.

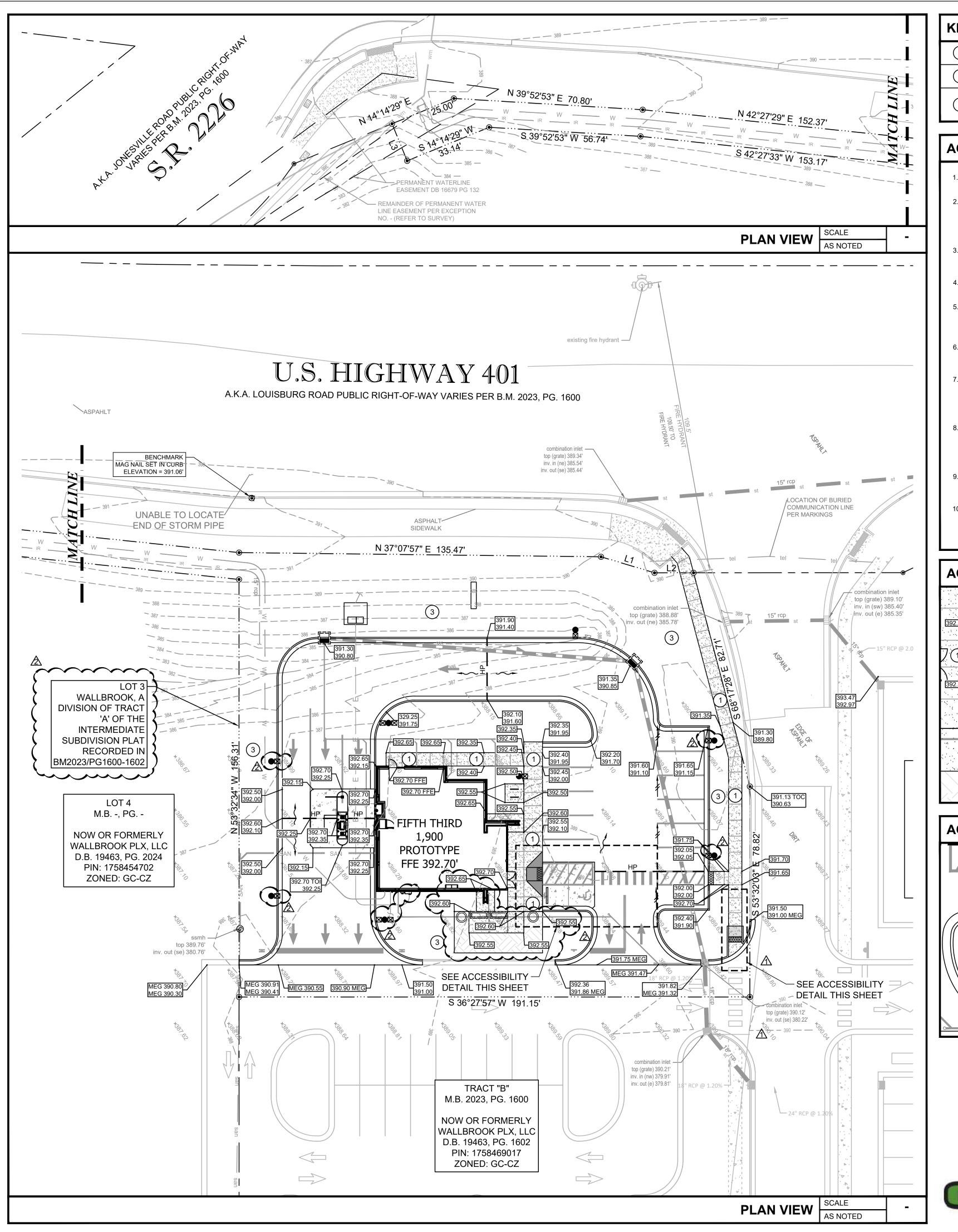
NC REG. NO. 38066

ISSUE BY DATE DESCRIPTION 08/16/24 PERMIT SET 10/28/24 TRC ROUND 1 01/03/25 | TRC ROUND 2

SITE PLAN

SHEET NUMBER

C02.01



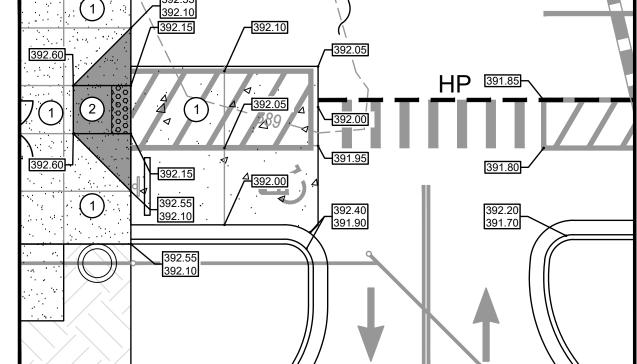
KEYED NOTES:

- SURFACE SLOPES NOT TO EXCEED 1:48 IN ALL DIRECTIONS.
- SURFACE SLOPES NOT TO EXCEED 1:48 CROSS SLOPES AND 1:12 RUNNING.
- RE-GRADE SURROUNDING LANDSCAPING GRADE ELEVATION AND RE-SOD/RE-MULCH AS REQUIRED TO MATCH EXISTING GRADE ELEVATIONS, SLOPES NOT TO EXCEED 4:1.

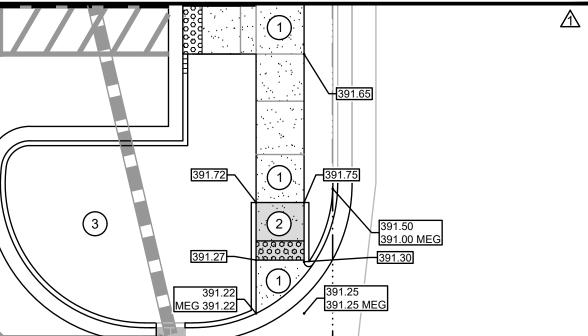
ACCESSIBILITY NOTES

- THE DRAWINGS ARE DESIGNED TO MEET ACCESSIBILITY STANDARDS AT MINIMUM. LOCAL AND STATE REQUIREMENTS OR CODES MAY HAVE ADDITIONAL STANDARDS.
- ACCESSIBLE PARKING SPACES, SIGNAGE, LOGOS, WHEEL STOPS AND ACCESSIBLE AISLES TO MEET ALL OF THE 2010 ADA STANDARDS REQUIREMENTS - PROVIDE SPACES IN SIZE, QUANTITY AND LOCATIONS REQUIRED BY THE ADA STANDARDS AND APPLICABLE CODES AS DETERMINED BY LOCAL JURISDICTION. PROVIDE A MAXIMUM SLOPE IN EITHER DIRECTION OF 1:48 (1:64 RECOMMENDED).
- ACCESSIBLE PARKING SIGNAGE ON POST. BOTTOM OF SIGNAGE TO BE MINIMUM 60" ABOVE GRADE. VERIFY ALL REQUIREMENTS WITH ACCESSIBILITY REQUIREMENTS AND LOCAL CODE.
- CONCRETE WHEEL STOP. ALL ACCESSIBLE SPACES- LOCATE FIXED WHEEL STOP SO AS NOT TO REDUCE THE WIDTH OF THE ADJOINING ACCESSIBLE ROUTE.
- ACCESSIBLE ROUTE TO PUBLIC RIGHT OF WAY (1 REQUIRED). MAXIMUM RUNNING SLOPE OF 1:20 AND MAXIMUM CROSS SLOPE OF 1:48 (1:64 RECOMMENDED), ALL PAVED SURFACES, CURB RAMPS AND TRANSITIONS ALONG PATH TO MEET ACCESSIBILITY
- ACCESSIBLE PATH/WALKWAY TO BE 5'-0" MINIMUM, RUNNING SLOPE 1:20 MAXIMUM, CROSS SLOPE 1:48 MAXIMUM, SLOPE AWAY FROM BUILDING - BROOM FINISH
- CURB RAMP TO MEET ALL ACCESSIBILITY REQUIREMENTS, MAXIMUM SLOPE OF RUN 1:12 (1:14 RECOMMENDED), MAXIMUM CRISS SLOPE 1:48 (1:64 RECOMMENDED). REFER TO SITE DETAILS SHEET FOR ADDITIONAL INFORMATION. PROVIDE 36" LONG MINIMUM LANDDING AT TOP AND 60: MINIMUM LANDING AT BOTTOM OF RAMP WITH MAXIMUM SLOPE IN EITHER DIRECTION OF LANDING TO BE 1:48 (1:64 RECOMMENDED)
- SURFACE CONDITIONS AT ACCESSIBLE WALKWAYS AND ACCESSIBLE AREAS (PAVERS SYSTEMS AND/OR CONCRETE SURFACES) SHALL NOT INCLUDE GAPS GREATER THAT 1/2" OR VERTICAL CHANGES AT JOINTS OR BETWEEN UNITS GREATER THAN 1/4" -UNLESS THE OVERALL LEVEL CHANGE DOES NOT EXCEED 1/2" AND THE LEVEL CHANGE IS BEVELED AT 1:2.
- IT WILL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO ENSURE THAT THE HANDICAP PARKING SPACES, ACCESSIBLE ROUTES, AND SIDEWALK/CROSSWALKS ARE CONSTRUCTED TO MEET ADA REQUIREMENTS.
- 0. ANY REQUIREMENTS LISTED ABOVE THAT CAN NOT BE MET SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION IMMEDIATELY. ANYTHING NOT BUILT TO THE ABOVE STANDARDS WILL REQUIRE REMOVAL AND REPLACEMENT OF THE NON COMPLIANT AREAS AT THE GENERAL CONTRACTORS COST

ACCESSIBILITY DETAIL SCALE: 1' = 10



ACCESSIBILITY DETAIL



LEGEND

- **ELEVATION**
- CLEANOUT INVERT ELEVATION
- SUMP ELEVATION EXISTING ELEVATION
- PROPOSED PAVEMENT ELEVATION
- TOP OF SIDEWALK/CURB EDGE OF PAVEMENT DITCH BOTTOM INLET
- **CURB INLET**
- FINISH FLOOR ELEVATION

HIGH POINT

- REINFORCED CONCRETE PIPE
- MATCH EXISTING GRADE TOP OF ISLAND
- **BUILDING DOWN SPOUT**
- 12" OR GREATER STORMWATER PIPE LESS THAN 12" STORMWATER PIPE
- PROPOSED SURFACE STORMWATER FLOW
- PROPOSED SWALE STORMWATER FLOW
- **EXISTING CONTOUR**
- PROPOSED CONTOUR DIRECTION OF PIPE FLOW

CONTROL BENCHMARKS

THE BASIS OF BEARING USEDD FOR THIS SURVEY IS N.C STATE GRID (NAD 83). ELEVATIONS SHOWN ON THIS SURVEY ARE BASED ON NAVD 88.

CONTRACTOR TO ESTABLISH CONTROL BENCHMARKS BEYOND LIMITS OF DEMOLITION PRIOR TO CONSTRUCTION.

EROSION CONTROL MEASURE NOTE

REQUIRED EROSION CONTROL MEASURES SHALL BE INSTALLED AS NEEDED AND MUST REMAIN INTACT THROUGHOUT CONSTRUCTION. FAILURE TO INSTALL OR PROPERLY MAINTAIN THESE BARRICADES WILL RESULT IN ENFORCEMENT ACTION WHICH MAY INCLUDE CITATIONS, AND INITIATION OF CIVIL PENALTY PROCEDURES.

PAVING AND GRADING GENERAL NOTES

- SEE GENERAL NOTES SHEET FOR EROSION AND SILTATION CONTROL ALONG WITH GENERAL NOTES.
- 2. SEE SITE PLAN SHEET FOR SITE DATA.
- 3. SEE SURVEY FOR TEMPORARY BENCH MARK (TBM) LOCATIONS.
- THE CONTRACTOR SHALL MEET ALL REQUIREMENTS FOR LOCAL MUNICIPALITY AND THE DEPARTMENT OF TRANSPORTATION WITH REGARD TO IMPROVEMENTS WITHIN THEIR RESPECTIVE RIGHTS-OF-WAY.
- 5. ALL DISTURBED AREAS WITHIN RIGHT-OF-WAY TO BE RETURNED TO MATCH EXISTING CONDITION.
- 6. ALL CLEANOUT TOP ELEVATION SHALL MATCH FINISH GRADE ELEVATIONS.
- CONTRACTOR SHALL INSTALL EROSION CONTROL SILT FENCE AROUND THE PERIMETER OF THE SITE AND MUST MAINTAIN THE SILT FENCE IN GOOD REPAIR UNTIL ALL CONSTRUCTION IS COMPLETE AND THE AREA IS STABILIZED.
- THE CONTRACTOR SHALL CONTACT THE ENGINEER PRIOR TO ANY CONSTRUCTION IF ANY PROBLEMS OR DISCREPANCIES EXIST.

GEOTECHNICAL NOTE:

THE PLACEMENT OF ANY FILL MATERIAL MUST BE CONDUCTED UNDER THE OBSERVATION OF A QUALIFIED LICENSED GEOTECHNICAL ENGINEER AND UPON COMPLETION OF THE EARTHWORK ACTIVITIES THE TOWN MUST BE PROVIDED WITH A FINAL GRADING REPORT THAT INCLUDES THE CORRESPONDING COMPACTION TEST RESULTS AND CERTIFIES THE TYPE OF FILL MATERIAL AND ITS PROPER PLACEMENT.

SCALE

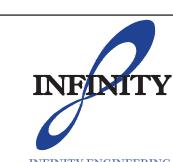
20'

40 '

60

architects 550 S. Caldwell Street | P: 704.981.8951 Suite 1800 Lic. #: AA - 0003590 Charlotte, NC 28202 | W: www.bdgllp.com

LOT 3 -



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IEG Job No. 15-309.00 SEAL NISIT SAPPARKHAO, P.E.



DATE					
ISSUE	BY	DATE	DESCRIPTION		
		08/16/24	PERMIT SET		
Λ		10/28/24	TRC ROUND 1		
\triangle		01/03/25	TRC ROUND 2		
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PROJECT INFORMATION BLOCK 230634 JOB# 08/16/2024 DATE: DRAWN BY:

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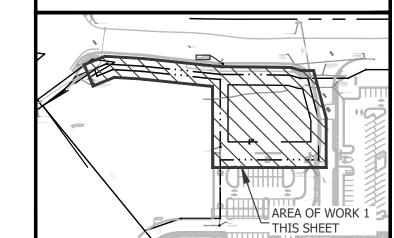
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GRADING PLAN

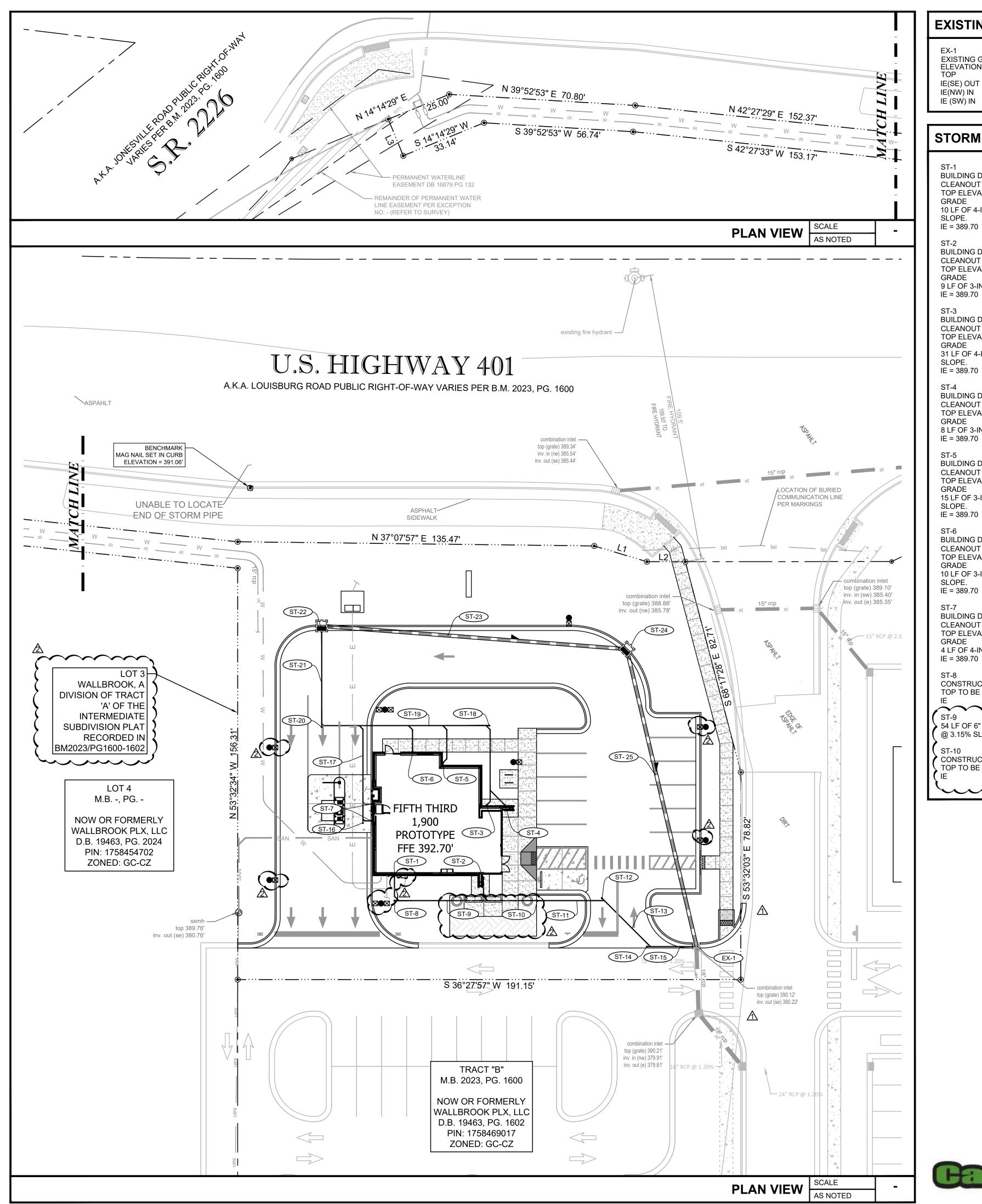
SHEET NUMBER

C03.01

SCALE: 1' = 10'



KEY PLAN:



EXISTING STORM STRUCTURE/PIPING DATA

EXISTING GRATE TO MATCH EXISTING PROPOSED

ELEVATIONS

IE(SE) OUT = 380.22' (EXISTING 18"RCP) IE(NW) IN = 383.70 (PROPOSED 15" HDPE) IE (SW) IN = 386.60 (PROPOSED 6" PVC)

STORM STRUCTURE/PIPING DATA

BUILDING DOWNSPOUT AND CLEANOUT TOP ELEVATION TO MATCH PROPOSED 10 LF OF 4-INCH PVC @ 1.00% MIN. SLOPE.

BUILDING DOWNSPOUT AND CLEANOUT TOP ELEVATION TO MATCH PROPOSED 9 LF OF 3-INCH PVC @ 1.00% MIN. SLOPE. IE = 389.70

BUILDING DOWNSPOUT AND CLEANOUT TOP ELEVATION TO MATCH PROPOSED 31 LF OF 4-INCH PVC @ 1.00% MIN. SLOPE.

BUILDING DOWNSPOUT AND CLEANOUT TOP ELEVATION TO MATCH PROPOSED 8 LF OF 3-INCH PVC @ 1.00% MIN. SLOPE. IE = 389.70

BUILDING DOWNSPOUT AND CLEANOUT TOP ELEVATION TO MATCH PROPOSED 15 LF OF 3-INCH PVC @ 1.00% MIN. IE = 389.70

BUILDING DOWNSPOUT AND CLEANOUT TOP ELEVATION TO MATCH PROPOSED 10 LF OF 3-INCH PVC @ 1.00% MIN. SLOPE. IE = 389.70

BUILDING DOWNSPOUT AND CLEANOUT TOP ELEVATION TO MATCH PROPOSED GRADE 4 LF OF 4-INCH PVC @ 1.00% MIN. SLOPE. IE = 389.70

CONSTRUCT CLEANOUT TOP TO BE SET AT GRADE $\sim\sim\sim\sim$ 54 LF OF 6" PVC @ 3.15% SLOPE CONSTRUCT CLEANOUT TOP TO BE SET AT GRADE = 387.80' 26 LF OF 6" PVC @ 2.70% SLOPE シー・シー・ ②

ST-12 CONSTRUCT CLEANOUT TOP TO BE SET AT GRADE = 387.10

ST-13 26 LF OF 6" PVC @ 1.15% SLOPE

CONSTRUCT CLEANOUT TOP TO BE SET AT GRADE = 386.80

ST-15 18 LF OF 6" PVC @ 1.11% SLOPE CONNECT TO EX- @ 386.60

CONSTRUCT CLEANOUT TOP TO BE SET AT GRADE = 389.65'

38 LF OF 6" PVC @1.00% MIN. SLOPE

CONSTRUCT CLEANOUT TOP TO BE SET AT GRADE = 389.30

64 LF OF 8" PVC @1.00% MIN. SLOPE

CONSTRUCT CLEANOUT TOP TO BE SET AT GRADE = 387.50'

38 LF OF 6" PVC @1.31% SLOPE

ST-17

CONCRETE CATCH BASIN (DROP INLET) NCDOT INDEX 719-001 TOP = 390.80' IE (NE) OUT = 386.00 (15" HDPE) IE (SE) IN = 387.00 (8" PVC)

116 LF OF 15" HDPE @ 1.00% SLOPE

CONCRETE CATCH BASIN (DROP INLET) NCDOT INDEX 719-001 TOP = 390.85' IE (SW) IN = 384.85' IE (E) OUT = 384.85'

ST-25 116 LF OF 15" HDPE @ 1.00% SLOPE

LEGEND

ELEVATION TYPICAL CLEANOUT INVERT ELEVATION SUMP ELEVATION **EXISTING ELEVATION** DITCH BOTTOM INLET **CURB INLET** FINISH FLOOR ELEVATION

REINFORCED CONCRETE PIPE STORM SEWER STRUCTURE NUMBER **BUILDING DOWN SPOUT** 12" OR GREATER STORMWATER PIPE

LESS THAN 12" STORMWATER PIPE DIRECTION OF PIPE FLOW - -29- EXISTING CONTOUR

CONTROL BENCHMARKS

THE BASIS OF BEARING USEDD FOR THIS SURVEY IS N.C STATE GRID (NAD 83). ELEVATIONS SHOWN ON THIS SURVEY ARE BASED ON NAVD 88.

CONTRACTOR TO ESTABLISH CONTROL BENCHMARKS BEYOND LIMITS OF DEMOLITION PRIOR TO CONSTRUCTION.

EROSION CONTROL MEASURE NOTE

REQUIRED EROSION CONTROL MEASURES SHALL BE INSTALLED AS NEEDED AND MUST REMAIN INTACT THROUGHOUT CONSTRUCTION. FAILURE TO INSTALL OR PROPERLY MAINTAIN THESE BARRICADES WILL RESULT IN ENFORCEMENT ACTION WHICH MAY INCLUDE CITATIONS, AND INITIATION OF CIVIL PENALTY PROCEDURES.

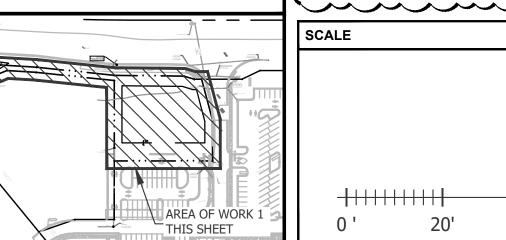
PAVING AND GRADING GENERAL NOTES

- SEE GENERAL NOTES SHEET FOR EROSION AND SILTATION CONTROL ALONG WITH GENERAL NOTES.
- 2. SEE SITE PLAN SHEET FOR SITE DATA.
- SEE SURVEY FOR TEMPORARY BENCH MARK (TBM) LOCATIONS.
- THE CONTRACTOR SHALL MEET ALL REQUIREMENTS FOR LOCAL MUNICIPALITY AND THE DEPARTMENT OF TRANSPORTATION WITH REGARD TO IMPROVEMENTS WITHIN THEIR RESPECTIVE RIGHTS-OF-WAY.
- 5. ALL DISTURBED AREAS WITHIN RIGHTS-OF-WAY TO BE RETURNED TO MATCH EXISTING CONDITION.
- 6. ALL CLEANOUT TOP ELEVATION SHALL MATCH FINISH GRADE ELEVATIONS.
- CONTRACTOR SHALL INSTALL EROSION CONTROL SILT FENCE AROUND THE PERIMETER OF THE SITE AND MUST MAINTAIN THE SILT FENCE IN GOOD REPAIR UNTIL ALL CONSTRUCTION IS COMPLETE AND THE AREA IS STABILIZED.
- THE CONTRACTOR SHALL CONTACT THE ENGINEER PRIOR TO ANY CONSTRUCTION IF ANY PROBLEMS OR DISCREPANCIES EXIST.

PRE VS POST SITE AREAS

	ACRE	S.F.	PERCENT
SITE AREA	0.76	33,092	100.00%
PRE-DEVELOPMENT PERVIOUS AREA: IMPERVIOUS AREA:	0.69 0.06	30,367 2,725	92.00% 8.00%
POST-DEVELOPMENT PERVIOUS AREA: IMPERVIOUS AREA:	0.34 0.42	14,905 18,187	45.00% 55.00%

$\sim\sim\sim\sim$ **KEY PLAN:**



PROJECT INFORMATION BLOCK JOB# 230634

08/16/2024

ISSUE BY DATE DESCRIPTION

08/16/24 PERMIT SET

10/28/24 TRC ROUND 1 01/03/25 TRC ROUND 2

architects

Suite 1800

4

ROLES

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BANK

Lic. #: AA - 0003590

FIFTH THIRD

OK 27

UBLIX AT

LOT 3 -OLESVILLE

DRAWN BY: CHECKED BY: SHEET TITLE

DATE:

STORM PIPING PLAN

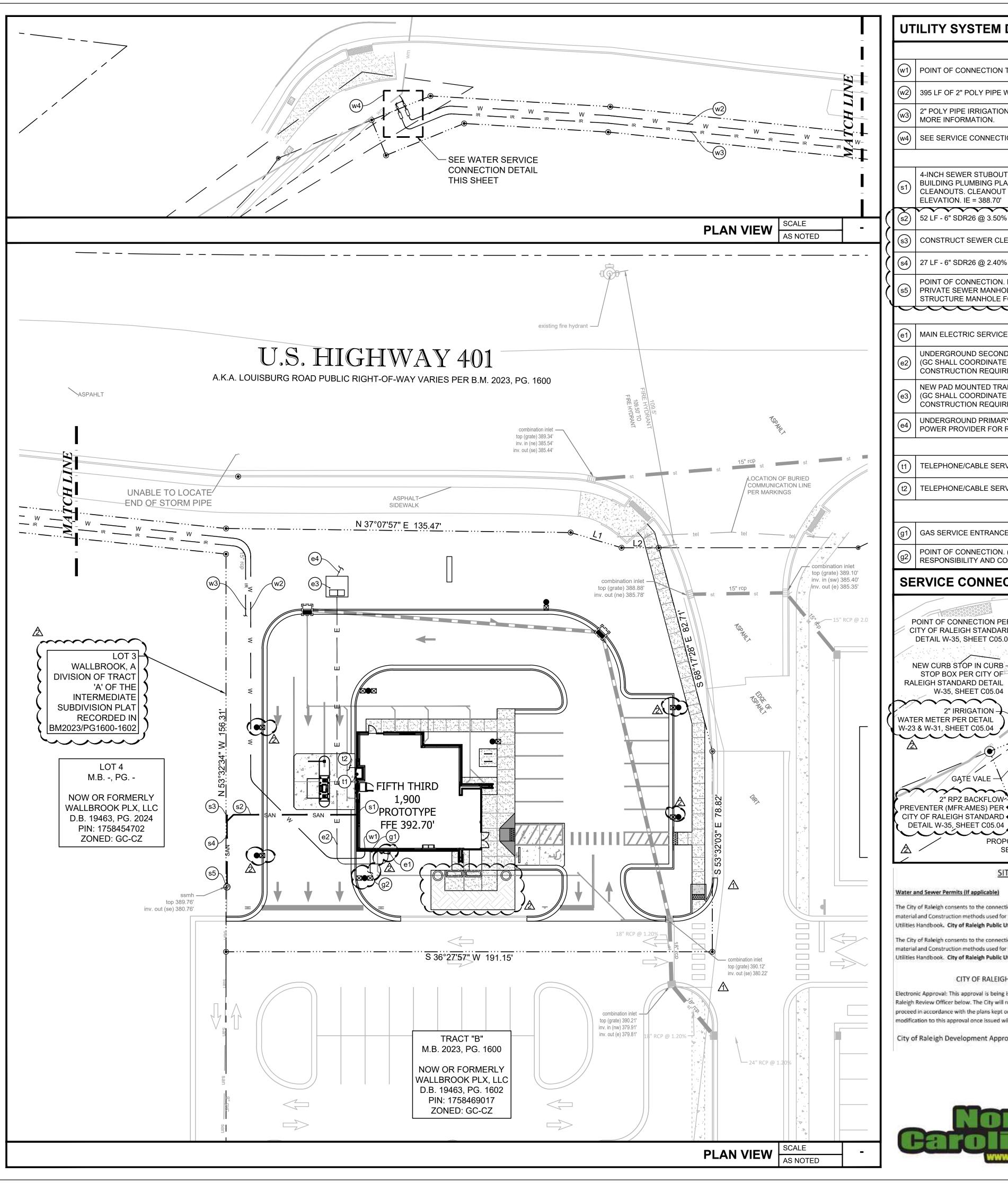
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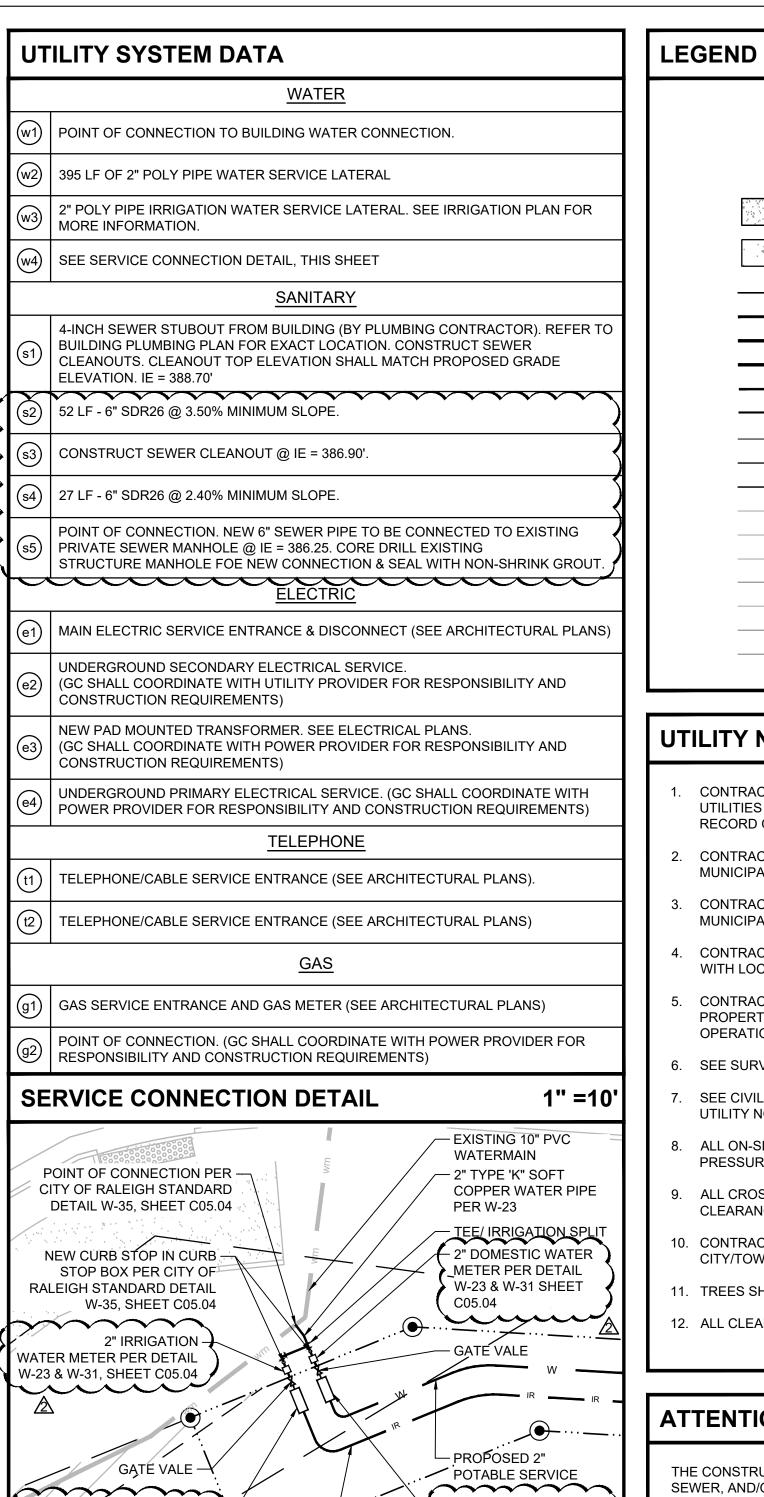
40 '

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C03.02







SITE PERMITTING APPROVAL

- 2" RPZ BACKFLOW

SHEET C05.04

PREVENTER (MFR:AMES)

STANDARD DETAIL W-35,

PER CITY OF RALEIGH

Water and Sewer Permits (If applicable)

2" RPZ BACKFLOW

The City of Raleigh consents to the connection and extension of the City's Public Sewer System as shown on this plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook. City of Raleigh Public Utilities Department Permit # N/A

SERVICE LINE

The City of Raleigh consents to the connection and extension of the City's Public Water System as shown on this plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook. City of Raleigh Public Utilities Department Permit # N/A

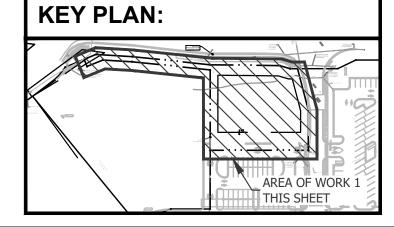
CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

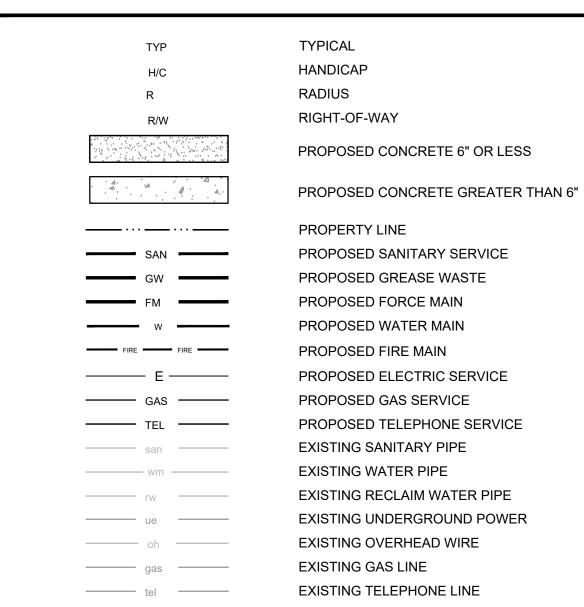
Electronic Approval: This approval is being issued electronically. This approval is valid only upon the signature of a City of Raleigh Review Officer below. The City will retain a copy of the approved plans. Any work authorized by this approval must proceed in accordance with the plans kept on file with the City. This electronic approval may not be edited once issued. Any modification to this approval once issued will invalidate this approval.

City of Raleigh Development Approval

Raleigh Water Review Officer







UTILITY NOTES

- CONTRACTOR TO VERIFY THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES WITHIN THE LIMITS OF CONSTRUCTION AND ADVISE THE ENGINEER OF RECORD OF ANY CONFLICTS IMMEDIATELY.
- CONTRACTOR SHALL NOTIFY AND COORDINATE WATER SERVICE WITH LOCAL MUNICIPALITIES UTILITIES DEPARTMENT.
- CONTRACTOR SHALL NOTIFY AND COORDINATE SEWER SERVICE WITH LOCAL MUNICIPALITIES UTILITIES DEPARTMENT.
- CONTRACTOR TO COORDINATE INSTALLATION OF ELECTRICAL POWER SERVICE WITH LOCAL ELECTRIC COMPANY.
- CONTRACTOR TO INSTALL PVC CONDUIT FOR TELEPHONE SERVICE (TO PROPERTY LINE) AND COORDINATE INSTALLATION OF SERVICE WITH TELEPHONE
- 6. SEE SURVEY FOR LOCATION OF OTHER EXISTING UTILITIES.
- SEE CIVIL SPECIFICATIONS AND REFERENCE DRAWING SHEETS FOR ADDITIONAL UTILITY NOTES.
- 8. ALL ON-SITE PVC WATER SERVICE AFTER METER SHALL BE SCHEDULE 80 OR
- 9. ALL CROSSINGS OF WATER AND SEWER LINES MUST MAINTAIN PROPER CLEARANCE (SEE CIVIL SPECIFICATIONS AND REFERENCE DRAWING SHEETS).
- 10. CONTRACTOR IS RESPONSIBLE FOR COMPLYING TO THE SPECIFICATIONS OF THE
- CITY/TOWNS STANDARD CONSTRUCTION AND UTILITY REQUIREMENTS.

11. TREES SHALL NOT BE PLANTED WITHIN 10 FEET FROM THE WATER MAIN.

12. ALL CLEANOUT TOP ELEVATION SHALL MATCH FINISH GRADE ELEVATIONS.

ATTENTION CONTRACTORS

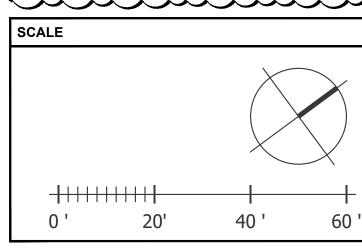
THE CONSTRUCTION CONTRACTOR RESPONSIBLE FOR THE EXTENSION OF WATER, SEWER, AND/OR REUSE, AS APPROVED IN THESE PLANS, IS RESPONSIBLE FOR CONTACTING THE PUBLIC WORKS DEPARTMENT AT (919) 996-2409, AND THE PUBLIC UTILITIES DEPARTMENT AT (919) 996-4540 AT LEAST TWENTY FOUR HOURS PRIOR TO BEGINNING ANY OF THEIR CONSTRUCTION.

FAILURE TO NOTIFY BOTH CITY DEPARTMENTS IN ADVANCE OF BEGINNING CONSTRUCTION, WILL RESULT IN THE ISSUANCE OF MONETARY FINES, AND REQUIRE REINSTALLATION OF ANY WATER OR SEWER FACILITIES NOT INSPECTED AS A RESULT OF THIS NOTIFICATION FAILURE.

FAILURE TO CALL FOR INSPECTION, INSTALL A DOWNSTREAM PLUG, HAVE PERMITTED PLANS ON THE JOBSITE, OR ANY OTHER VIOLATION OF CITY OF RALEIGH STANDARDS WILL RESULT IN A FINE AND POSSIBLE EXCLUSION FROM FUTURE WORK IN THE CITY OF RALEIGH.

STANDARD UTILITY NOTES

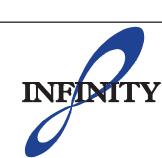
FOR STANDARD UTILITY NOTES REFERENCE DETAIL SHEET, C05.05.



architects

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NC Firm Certificate No. P-1836 IEG Job No. 15-309.00

NISIT SAPPARKHAO, P.E. NC REG. NO. 38066



ISSUE	BY	DATE	DESCRIPTION
		08/16/24	PERMIT SET
Λ		10/28/24	TRC ROUND 1
^		01/03/25	TRC ROUND 2

PROJECT INFORMATION BLOCK JOB# 08/16/2024

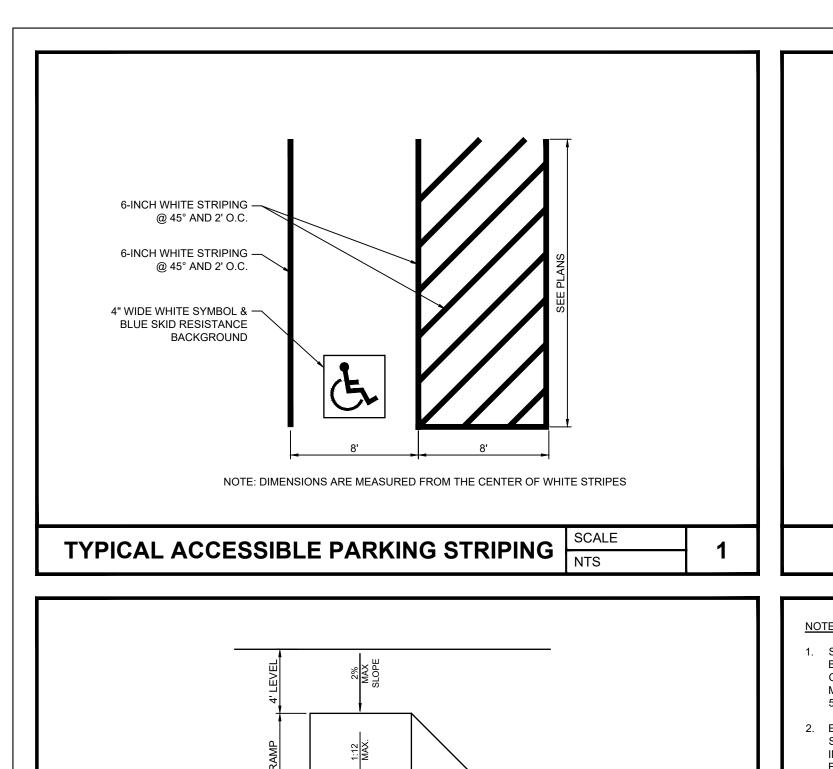
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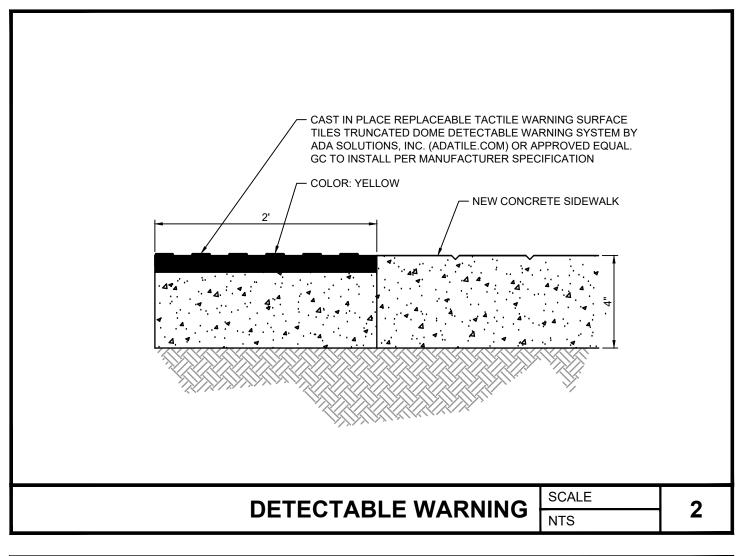
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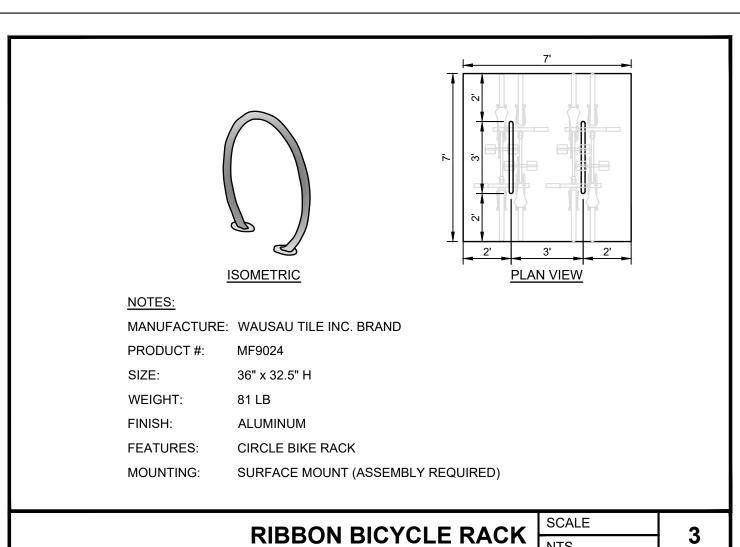
UTILITY PLAN

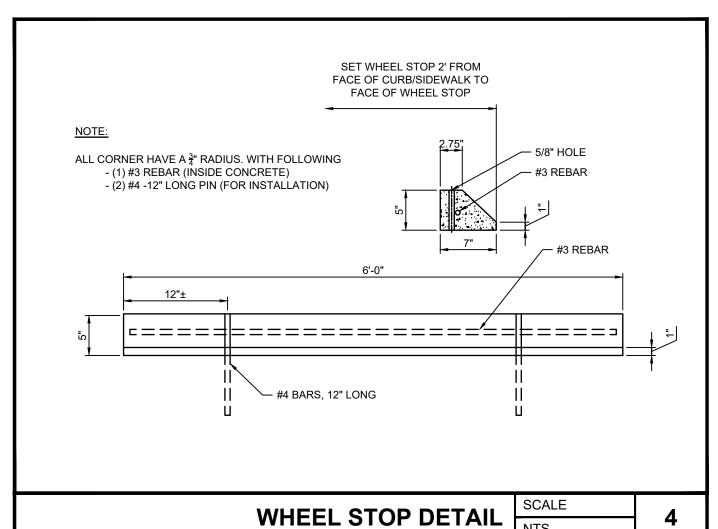
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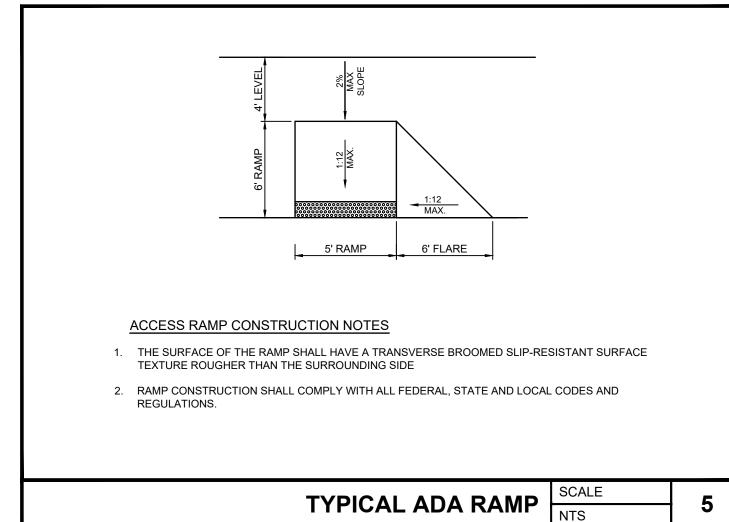
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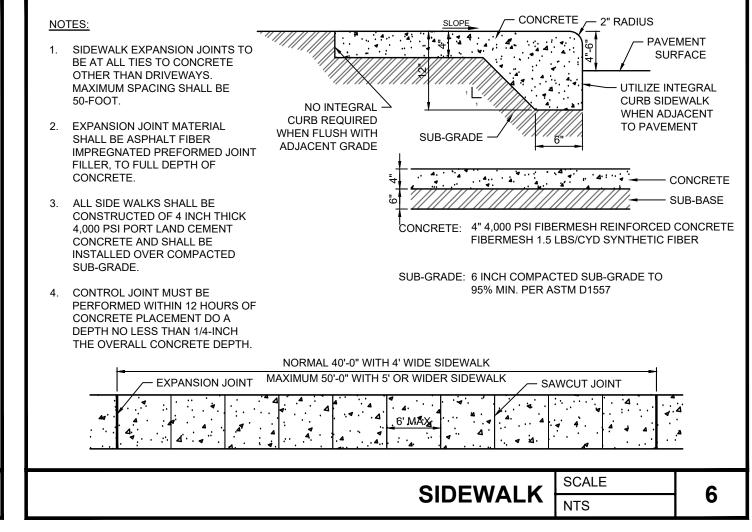
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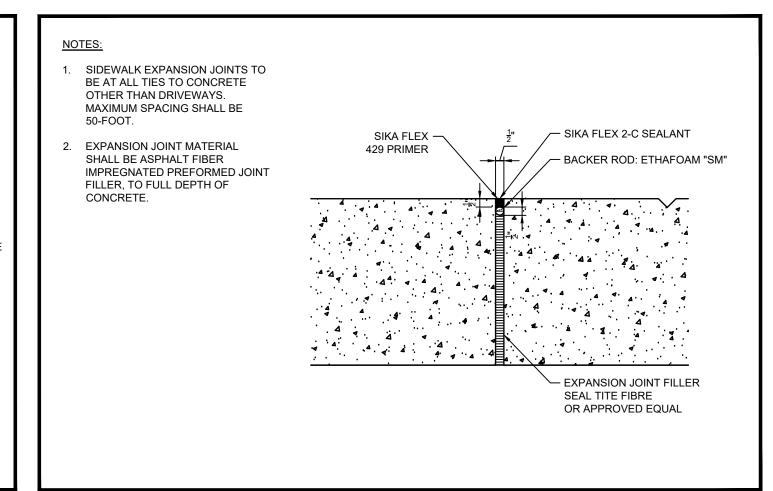
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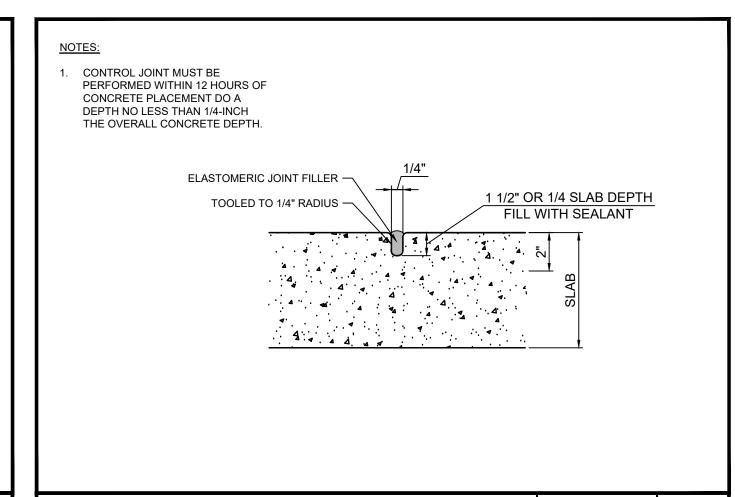
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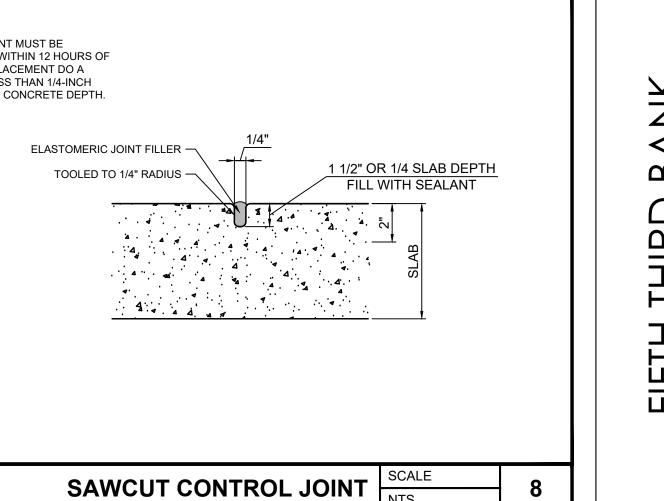
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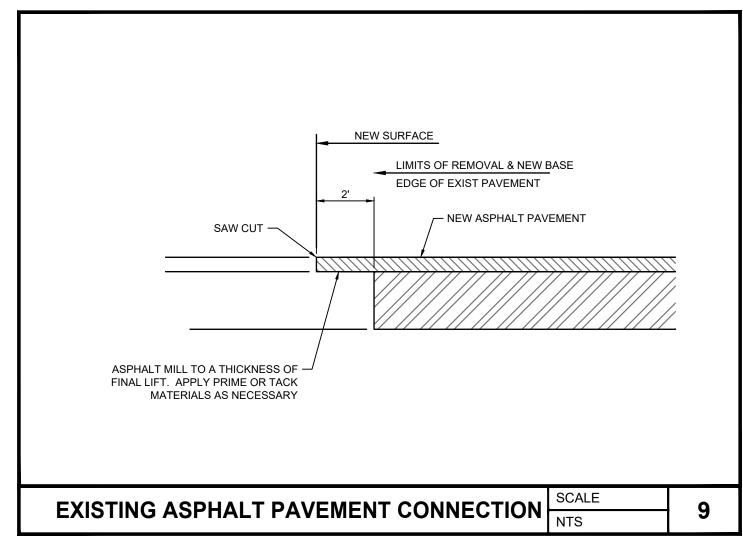


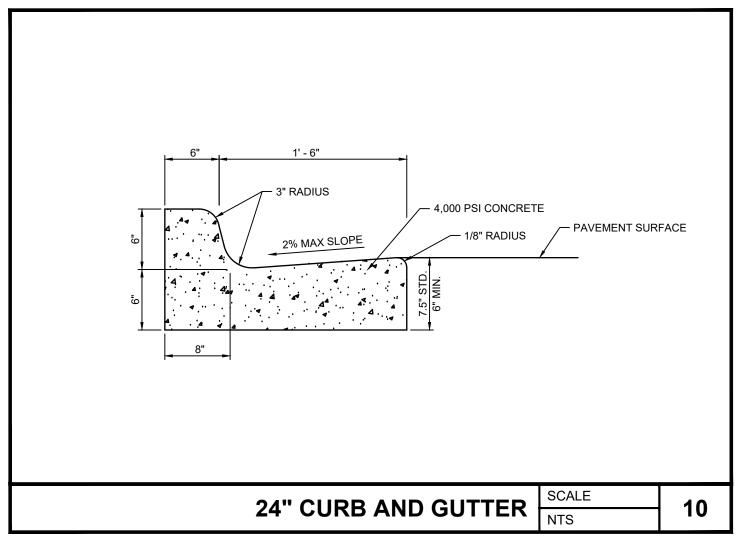


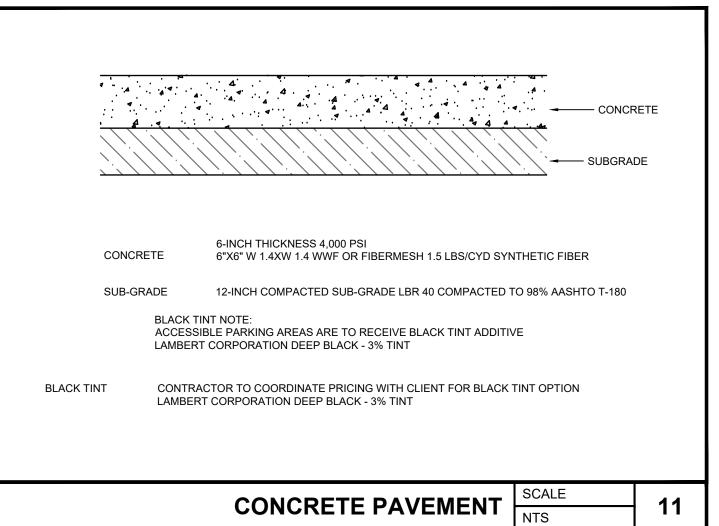




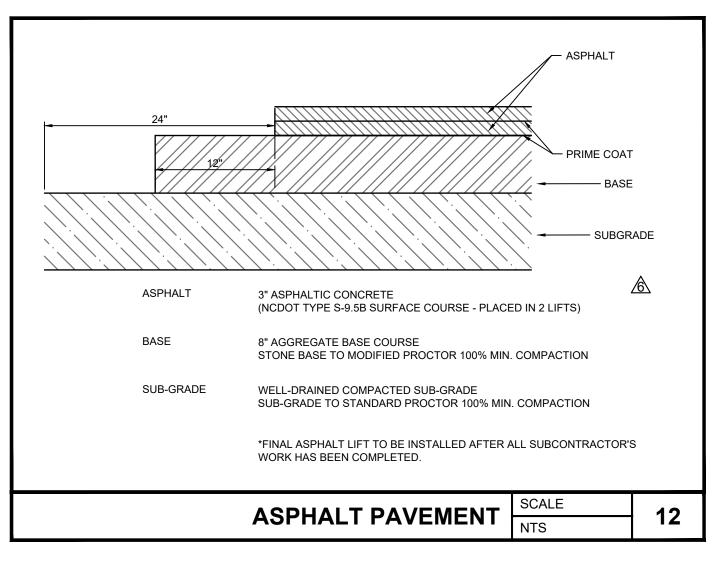


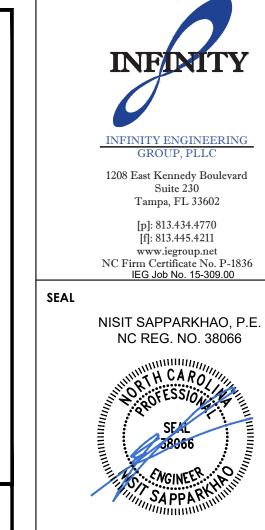


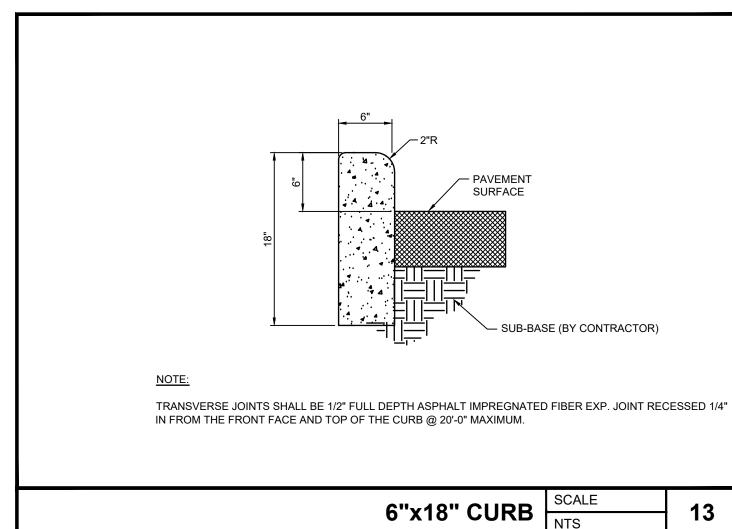


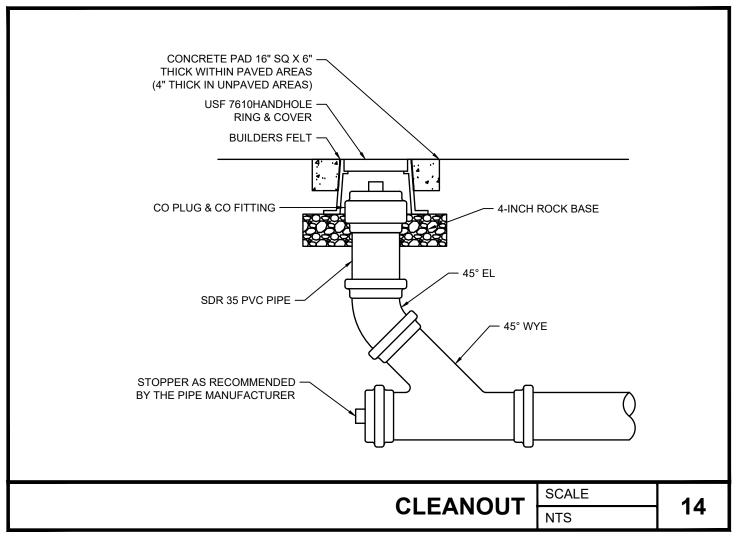


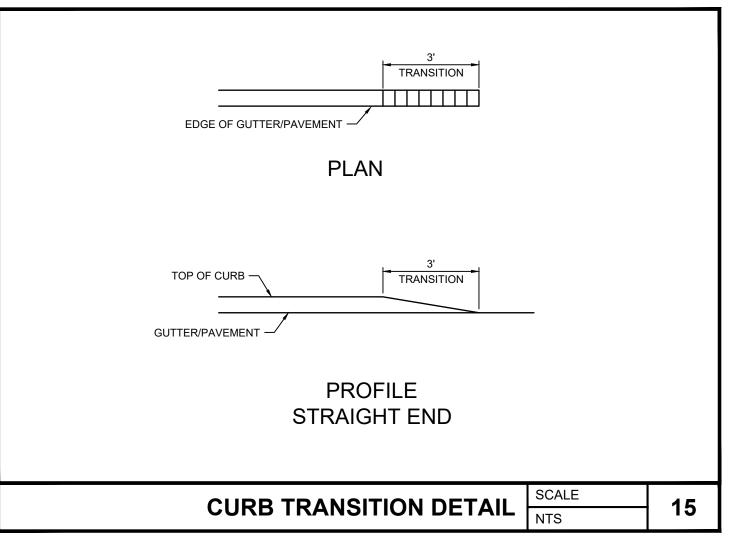
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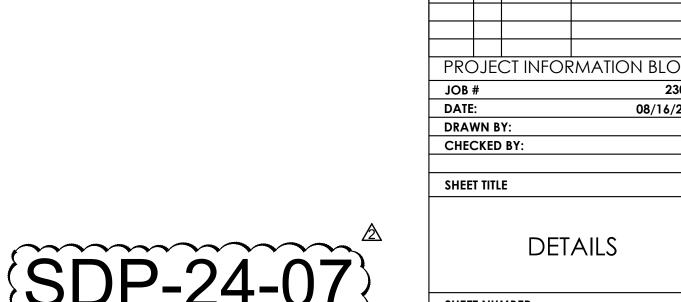


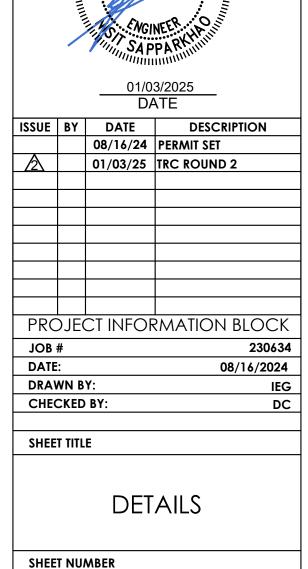




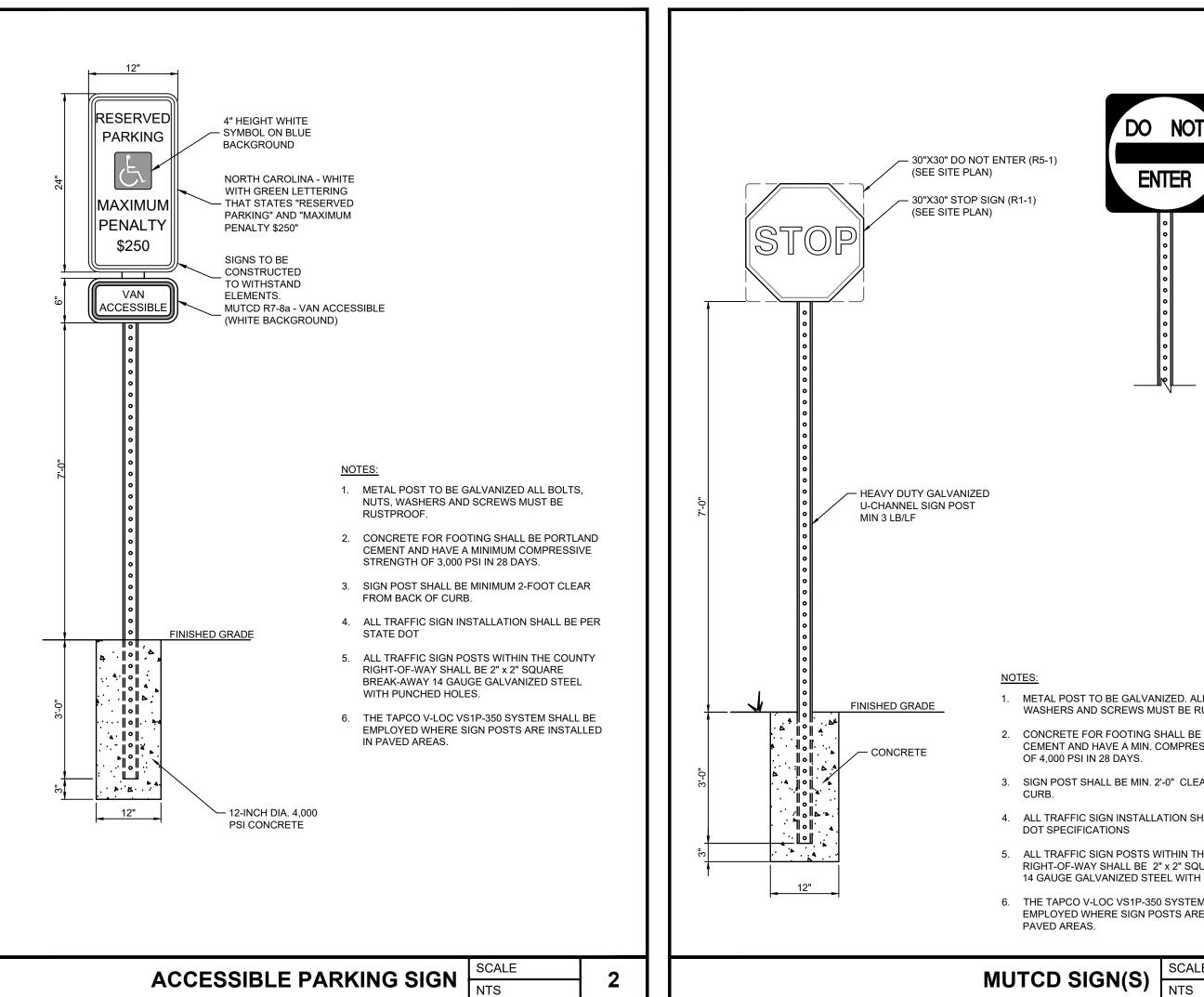


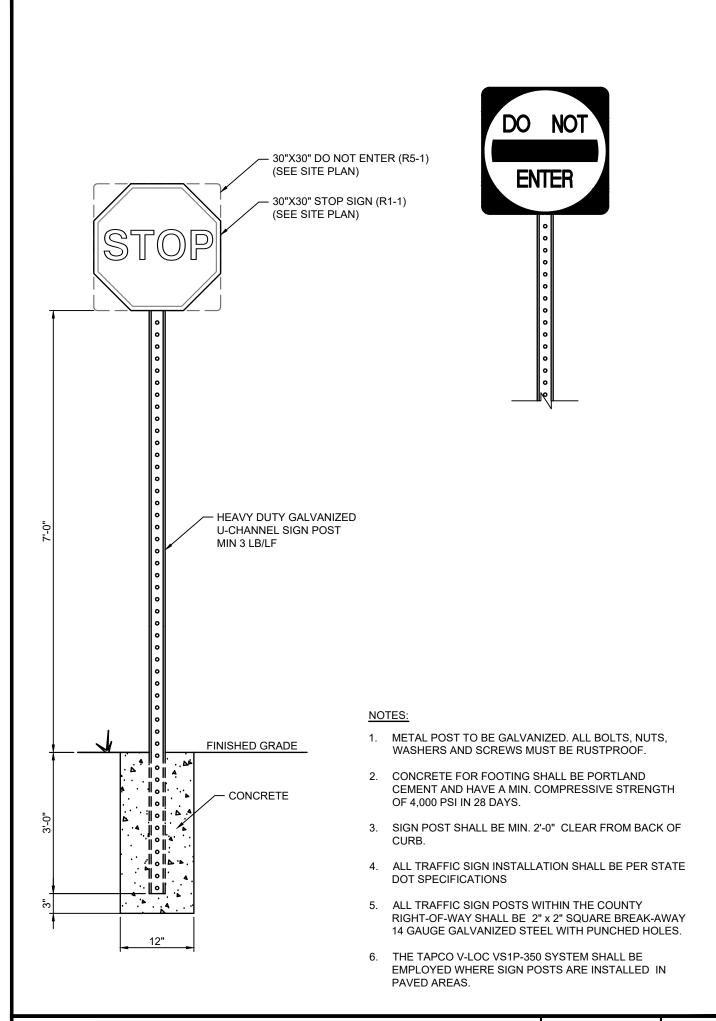


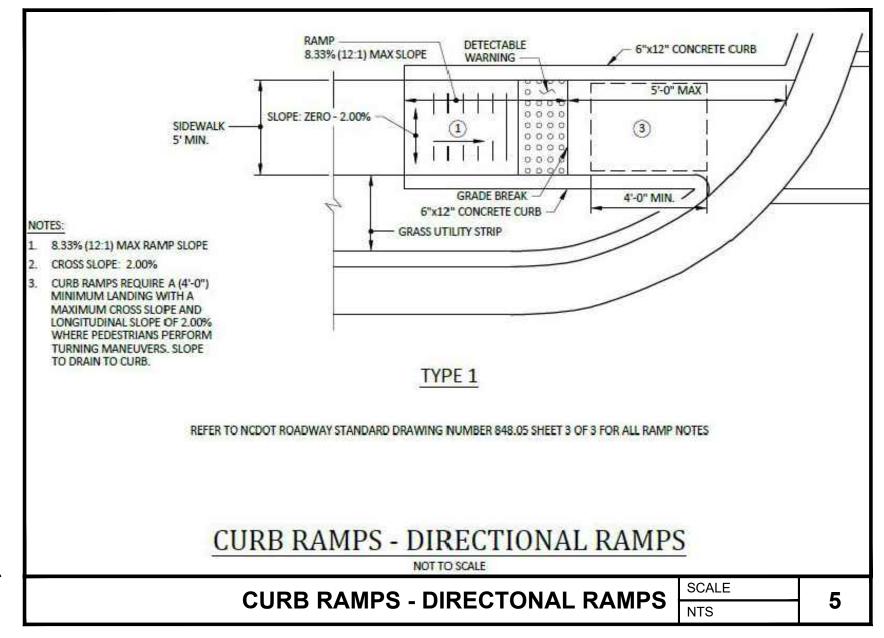


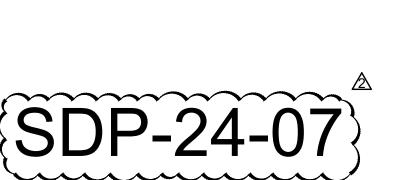














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UBLIX AT NORTH LOT 3 - PU ROLESVILLE, I

INFINITY

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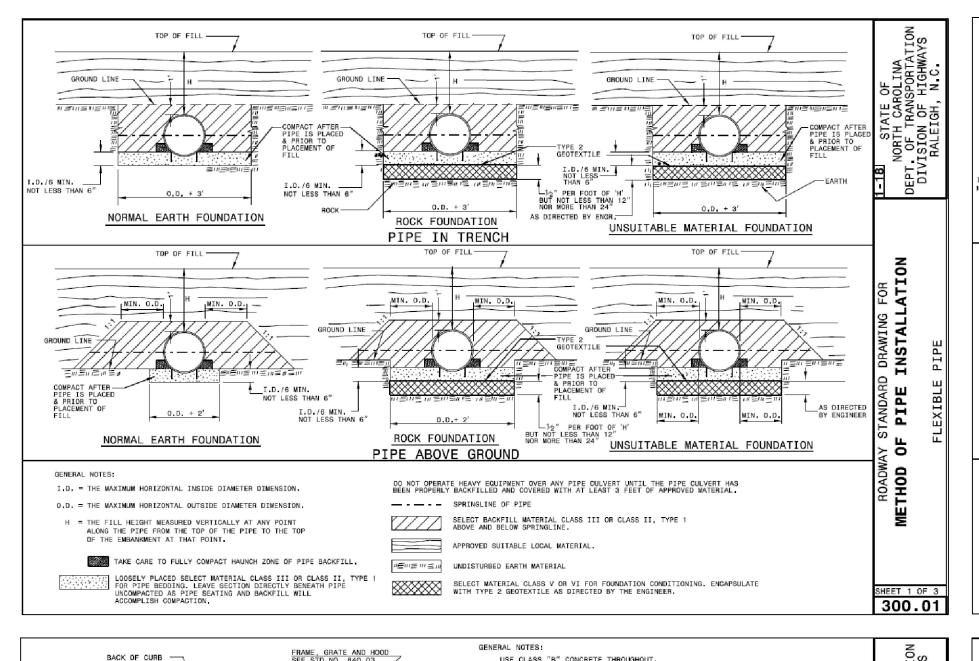


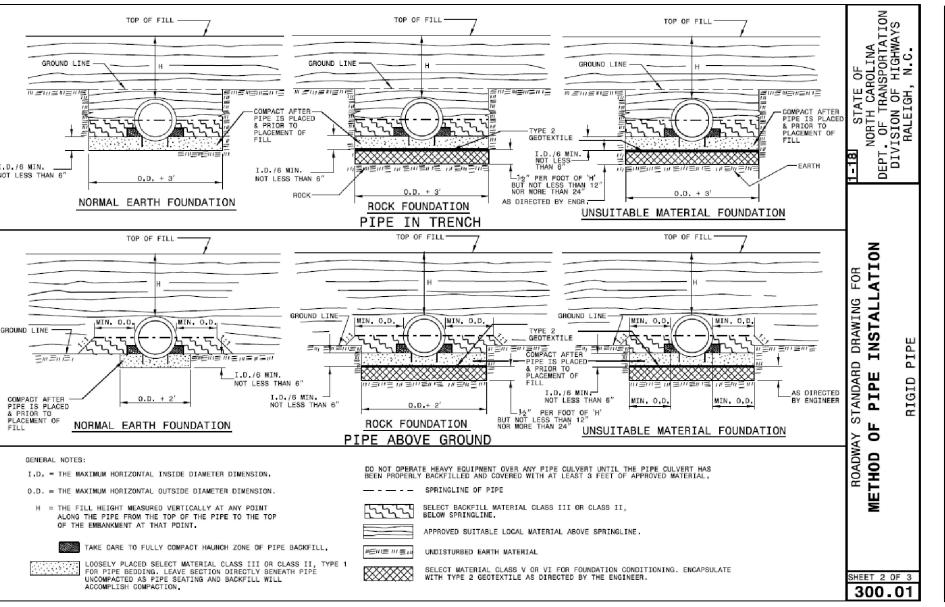
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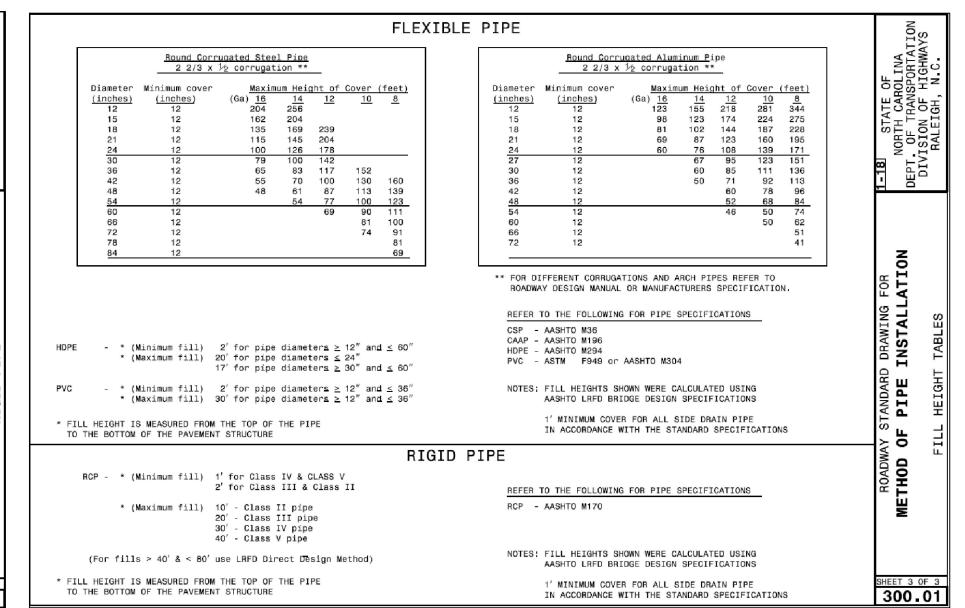
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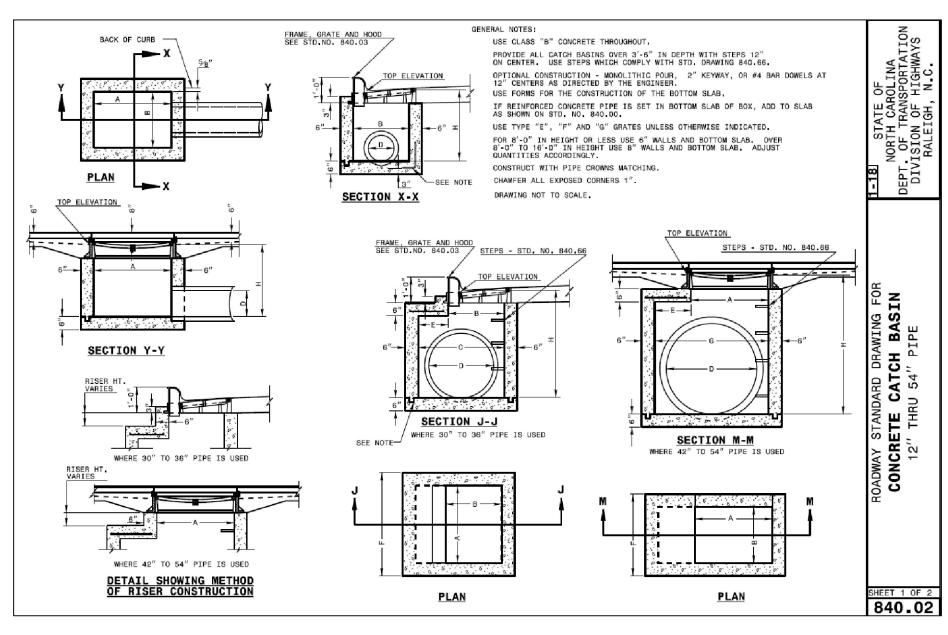
DETAILS

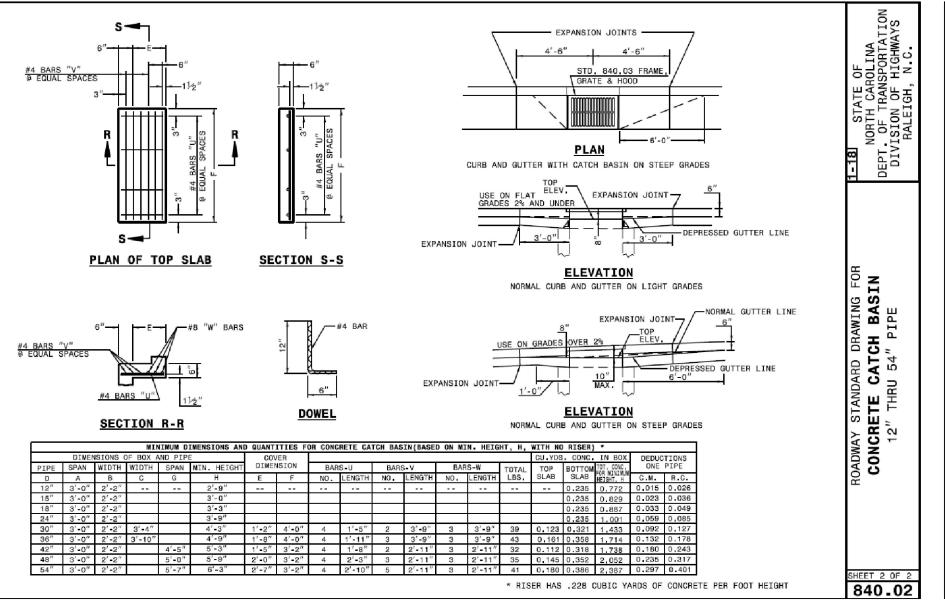
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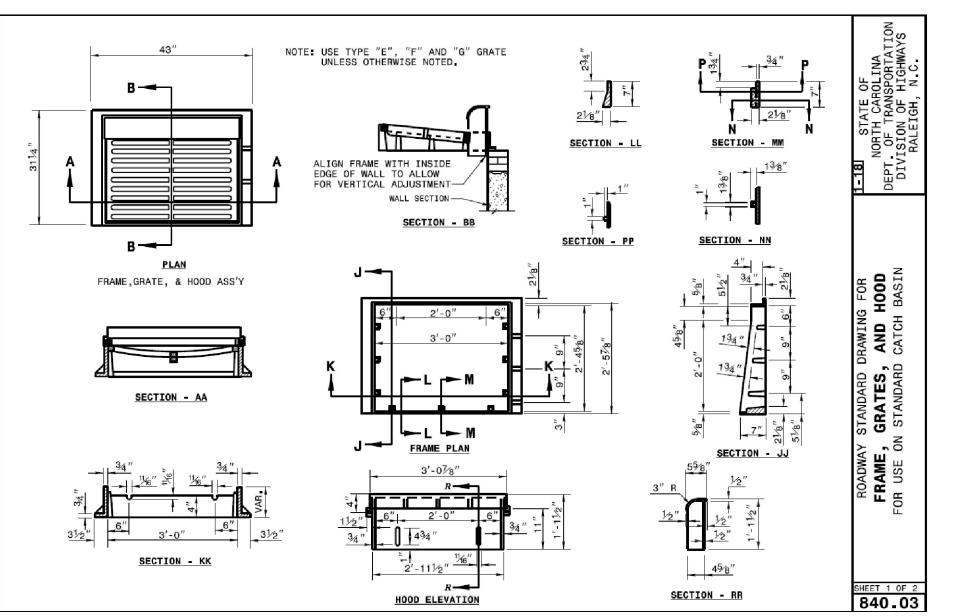














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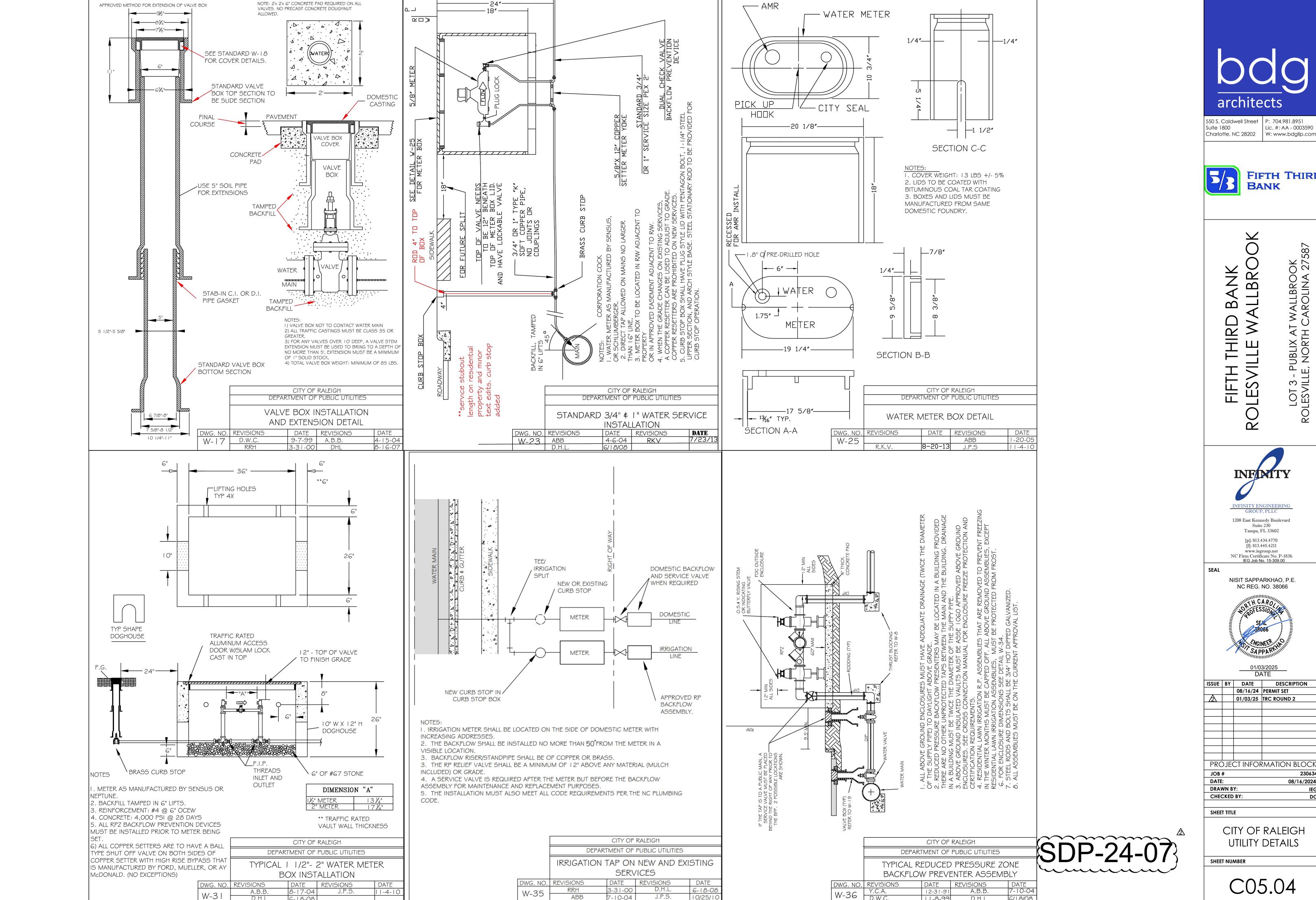
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NCDOT **DETAILS**

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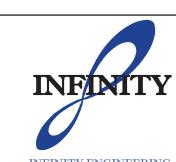
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	DATE					
ISSUE	BY	DATE	DESCRIPTION			
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		01/03/25	TRC ROUND 2			
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CITY OF RALEIGH UTILITY DETAILS

230634

08/16/2024

d) 5.0' minimum horizontal separation is required between all sanitary sewer & storm sewer

facilities, unless DIP material is specified for sanitary sewer e) Maintain 18" min. vertical separation at all watermain & RCP storm drain crossings;

maintain 24" min. vertical separation at all sanitary sewer & RCP storm drain crossings. Where adequate separations cannot be achieved, specify DIP materials & a concrete cradle having 6" min. clearance (per CORPUD details W-41 & S-49)

f) All other underground utilities shall cross water & sewer facilities with 18" min. vertical separation required

3. Any necessary field revisions are subject to review & approval of an amended plan &/or profile by the City of Raleigh Public Utilities Department prior to construction

4. Contractor shall maintain continuous water & sewer service to existing residences & businesses throughout construction of project. Any necessary service interruptions shall be preceded by a 24 hour advance notice to the City of Raleigh Public Utilities Department

5. 3.0' minimum cover is required on all water mains & sewer forcemains. 4.0' minimum cover is required on all reuse mains

6. It is the developer's responsibility to abandon or remove existing water & sewer services not being used in redevelopment of a site unless otherwise directed by the City of Raleigh Public Utilities Department. This includes abandoning tap at main & removal of service from ROW or easement per CORPUD Handbook procedure

7. Install ³/₄" copper* water services with meters located at ROW or within a 2'x2' Waterline Easement immediately adjacent. NOTE: it is the applicant's responsibility to properly size the water service for each connection to provide adequate flow & pressure

8. Install 4" PVC* sewer services @ 1.0% minimum grade with cleanouts located at ROW or easement line & spaced every 75 linear feet maximum

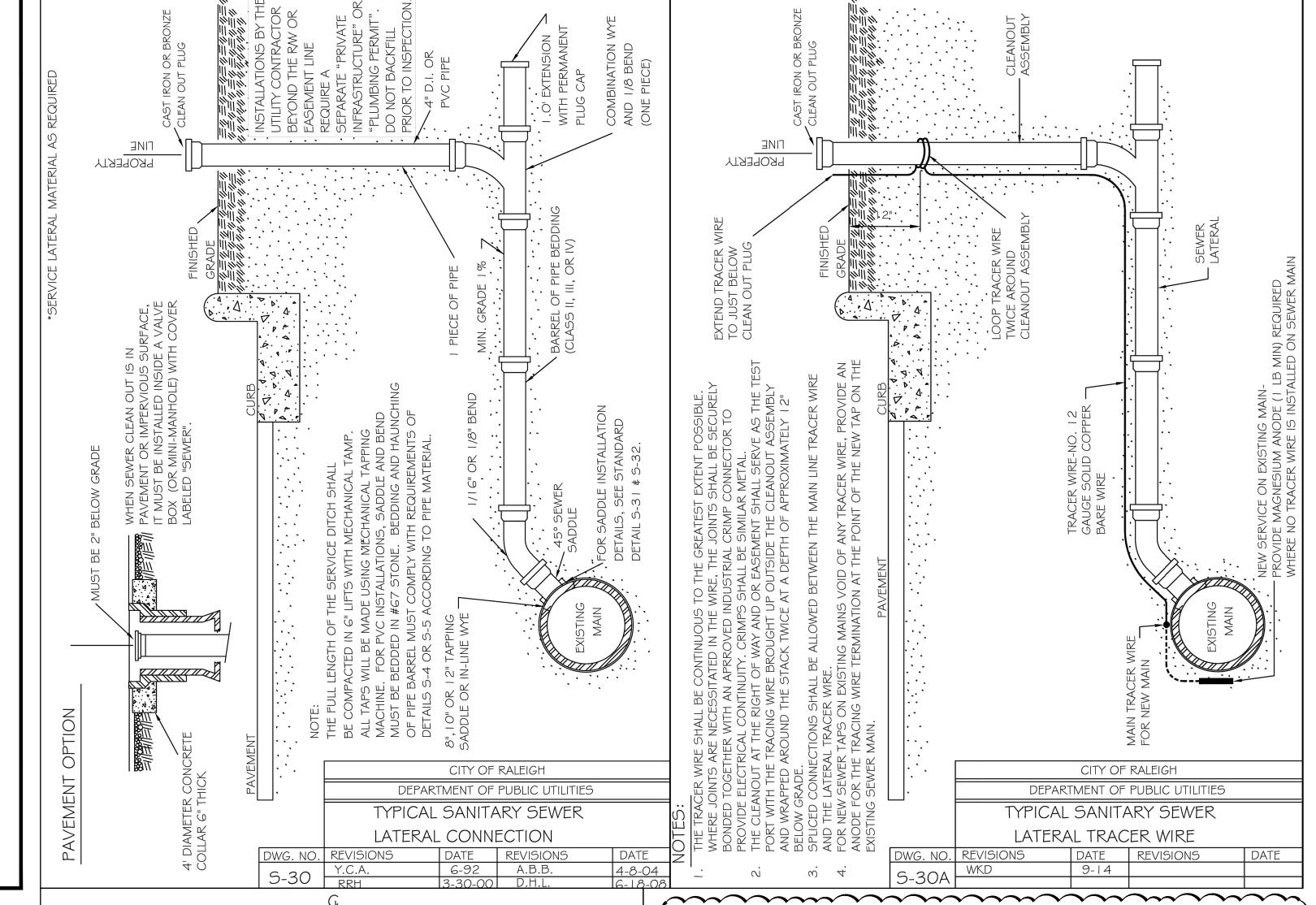
9. Pressure reducing valves are required on all water services exceeding 80 psi; backwater valves are required on all sanitary sewer services having building drains lower than 1.0' above the next upstream manhole

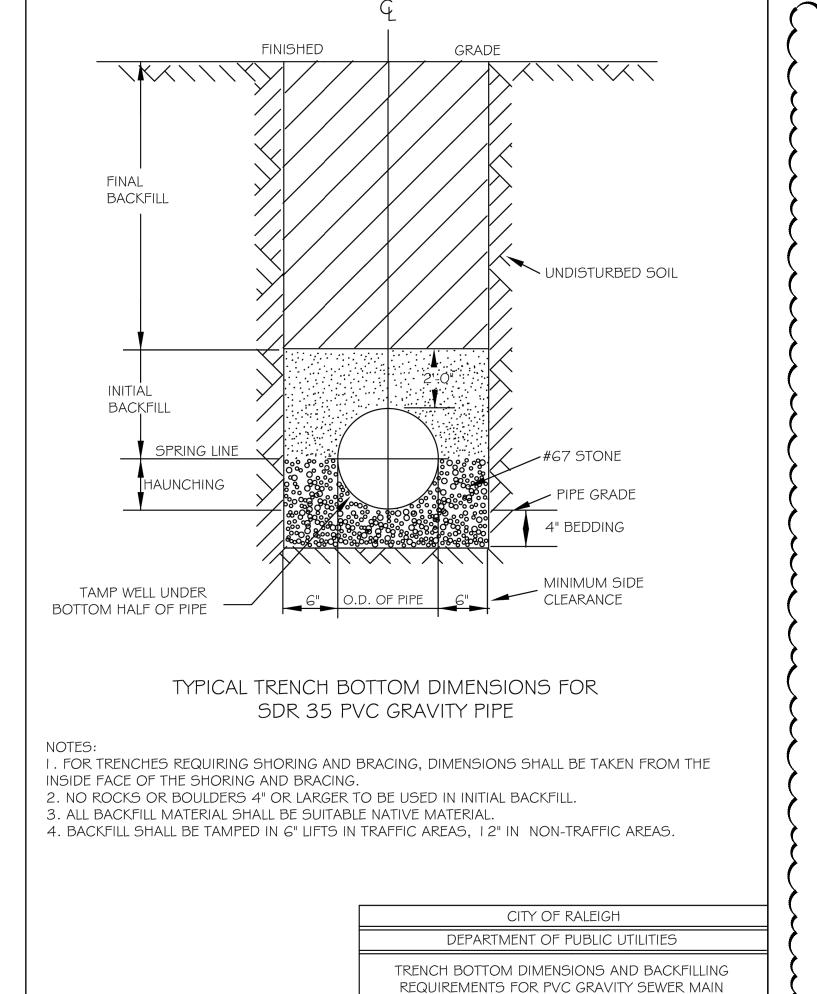
10. All environmental permits applicable to the project must be obtained from NCDWQ, USACE &/or FEMA for any riparian buffer, wetland &/or floodplain impacts (respectively) prior to

11. NCDOT / Railroad Encroachment Agreements are required for any utility work (including main extensions & service taps) within state or railroad ROW prior to construction

12. Grease Interceptor / Oil Water Separator sizing calculations & installation specifications shall be approved by the CORPUD FOG Program Coordinator prior to issuance of a Building Permit. Contact Tim Beasley at (919) 996-2334 or timothy.beasley@raleighnc.gov for more information

13. Cross-connection control protection devices are required based on degree of health hazard involved as listed in Appendix-B of the Rules Governing Public Water Systems in North Carolina. These guidelines are the minimum requirements. The devices shall meet American Society of Sanitary Engineering (ASSE) standards or be on the University of Southern California approval list. The devices shall be installed and tested (both initial and periodic testing thereafter) in





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IEG Job No. 15-309.00 NISIT SAPPARKHAO, P.E.



ISSUE	BY	DATE	DESCRIPTION
		08/16/24	PERMIT SET
Λ		10/28/24	TRC ROUND 1
A		01/03/25	TRC ROUND 2

PROJECT INFORMATION BLOCK 230634 08/16/2024

CHECKED BY: SHEET TITLE

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CITY OF RALEIGH UTILITY DETAILS

SHEET NUMBER

SDP-24-07

Seeding Specifications

NPDES Stormwater Discharge Permit for Construction Activities (NCGO1 - 4/1/19)

NCDEQ/Division of Energy, Mineral and Land Resources

	ECTION E: GROUND STABILIZATION						
Required Ground Stabilization Timeframes							
Site Area Description	Stabilize within this many calendar days after ceasing land disturbance	Timeframe variations					
(a)Perimeter dikes, swales, ditches, and perimeter slopes	7	None					
(b)High Quality Water (HQW) Zones	7	None					
(c)Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed					
(d)Slopes 3:1 to 4:1	14	-7 days for slopes greater than 50' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed					
(e)Areas with slopes flatter than 4:1	14	 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zone -10 days for Falls Lake Watershed unless there is zero slope 					

Note: After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.

Seedbed Preparation:

- 1. Chisel compacted areas and spread topsoil three inches deep over adverse soil conditions, if available.
- 2. Rip the entire area to six inches deep.
- 3. Remove all loose rock, roots and other obstructions, leaving surface
- reasonably smooth and uniform.

 4. Apply agricultural lime, fertilizer and superphosphate uniformly and mix with
- soil (see mixture below).
- Continue tillage until a well-pulverized, firm, reasonably uniform seedbed is prepared four to six inches deep.
- Seed on a freshly prepared seedbed and cover seed lightly with seeding equipment or cultipack after seeding.
- 7. Mulch immediately after seeding and anchor mulch.

8. Inspect all seeded areas and make necessary repairs or reseedings within the planting season, if possible. If stand should be more than 60% damaged, reestablish following the original lime, fertilizer and seeding rates.

 Consult Wake County Soil & Water or NC State Cooperative Extension on maintenance treatment and fertilization after permanent cover is established.

Mixture

Agricultural Limestone 2 tons/acre (3 tons/acre in clay soils)

Fertilizer 1,000 lbs/acre – 10-10-10

Superphosphate 500 lbs/acre – 20% analysis

Mulch 2 tons/acre – small grain straw

Anchor Asphalt emulsion at 400 gals/acre

Seeding Schedule

For Shoulders, Side Ditches, Slopes (Max 3:1):

Type Planting Rate

5- Tall Fescue 300 lbs/acre

Nov 1–
Tall Fescue & Abruzzi Rye 300 lbs/acre

Mar 1– Apr 15 Tall Fescue 300 lbs/acre

Apr 15– Hulled Common

Jun 30 Bermudagrass

25 lbs/acre

Jul 1- Tall Fescue AND Browntop
Aug 15 Millet or Sorghum-Sudan
Hybrids****

125 lbs/acre (Tall Fescue); 35
lbs/acre (Browntop Millet); 30 lbs/acre
(Sorghum-Sudan Hybrids)

For Shoulders, Side Ditches, Slopes (3:1 to 2:1):

Date Type Planting Rate

Mar 1Jun 1 Sericea Lespedeza (scarified)
and use the following 50 lbs/acre (Sericea Lespedeza);
combinations:

/lar 1– Add Tall Fescue 120 lbs/acre

Mar 1– Jun 30 Or add Weeping Love grass 10 lbs/acre

Mar 1- Or add Hulled Common

Jun 30 Bermudagrass 25 lbs/acre

Tall Fescue AND Browntop
Mullet or Sorghum-Sudan
Hybrids***

120 lbs/acre (Tall Fescue); 35 lbs/acre
(Browntop Mullet); 30 lbs/acre
(Sorghum-Sudan Hybrids)

Sept 1- Sericea Lespedeza (unhulled – unscarified) AND Tall
Mar 1 Tanawa 70 lbs/acre (Sericea Lespedeza); 120 lbs/acre (Tall Fescue)

Nov 1-Mar 1 AND Abruzzi Rye 25 lbs/acre

Consult Wake County Soil & Water Conservation District or NC State Cooperative Extension for additional information concerning other alternatives for vegetation of denuded areas. The above vegetation rates are those that do well under local conditions; other seeding rate combinations

*** TEMPORARY: Reseed according to optimum season for desired permanent vegetation. Do not allow temporary cover to grow more than 12" in height before mowing; otherwise, fescue may be shaded out.

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NISIT SAPPARKHAO, P.E. NC REG. NO. 38066

NC REG. NO. 38066

04/02/2025

ISSUE BY DATE DESCRIPTION

08/16/24 PERMIT SET

10/28/24 TRC ROUND 1

01/03/25 TRC ROUND 2

PROJECT INFORMATION BLOCK

JOB # 230634

08/16/2024

CHECKED BY:
SHEET TITLE

SHEET NUMBER

DRAWN BY:

WAKE COUNTY SEEDING SPECIFICATIONS

C05.06

are possible.

A

(SDP-24-07)

ACCORDANCE WITH THE PLANS. AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE SEDIMENT TRAPS AND THE EARTH DIKE/SWALES WILL BE REGRADED/REMOVED AND STABILIZED IN ACCORDANCE WITH THE EROSION & TURBIDITY CONTROL PLAN.

CONTROLS

IT IS THE CONTRACTORS RESPONSIBILITY TO IMPLEMENT THE EROSION AND TURBIDITY CONTROLS AS SHOWN ON THE EROSION AND TURBIDITY CONTROL PLAN. IT IS ALSO THE CONTRACTORS RESPONSIBILITY TO ENSURE THESE CONTROLS ARE PROPERLY INSTALLED, MAINTAINED AND FUNCTIONING PROPERLY TO PREVENT TURBID OR POLLUTED WATER FROM LEAVING THE PROJECT SITE. THE CONTRACTOR WILL ADJUST THE EROSION AND TURBIDITY CONTROLS SHOWN ON THE EROSION AND TURBIDITY CONTROL PLAN AND ADD ADDITIONAL CONTROL MEASURES, AS REQUIRED, TO ENSURE THE SITE MEETS ALL FEDERAL, STATE AND LOCAL EROSION AND TURBIDITY CONTROL REQUIREMENTS. THE FOLLOWING BEST MANAGEMENT PRACTICES WILL BE IMPLEMENTED BY THE CONTRACTOR AS REQUIRED BY THE EROSION AND TURBIDITY CONTROL PLAN AND AS REQUIRED TO MEET THE EROSION AND TURBIDITY REQUIREMENTS IMPOSED ON THE PROJECT SITE BY THE REGULATORY AGENCIES.

SPILL PREVENTION

REFER TO "CONTRACTORS RESPONSIBILITY" FOR THE TIMING OF CONTROL/MEASURES.

TURBIDITY CAUSED BY STORMWATER RUN OFF. AN EROSION AND TURBIDITY PLAN

HAS BEEN PREPARED TO INSTRUCT THE CONTRACTOR ON PLACEMENT OF THESE

CONTROLS. IT IS THE CONTRACTORS RESPONSIBILITY TO INSTALL AND MAINTAIN

PROPER PROTECTION AS REQUIRED BY FEDERAL. STATE AND LOCAL LAWS. REFEF

MODIFIED COLLECTION, CONVEYANCE, TREATMENT & ATTENUATION SYSTEM FOR

THE PROJECT. AREAS WHICH ARE NOT TO BE CONSTRUCTED ON, BUT WILL BE

REGRADED SHALL BE STABILIZED IMMEDIATELY AFTER GRADING IS COMPLETE,

PERMANENT DETENTION BASIN. THE DRY DETENTION SYSTEM IS DESIGNED IN

ACCORDANCE WITH THE REQUIREMENTS SET FORTH BY THE DEPARTMENT OF

ENVIRONMENTAL PROTECTION FOR THIS TYPE OF DEVELOPMENT AT THE TIME IT

TIMING OF CONTROLS/MEASURES

UNDERGROUND DETENTION SYSTEM. WHERE PRACTICAL, TEMPORARY SEDIMENT

THE CONTROLS PER PLAN AS WELL AS ENSURING THE PLAN IS PROVIDING THE

TO "CONTRACTORS RESPONSIBILITY" FOR A VERBAL DESCRIPTION OF THE

STORMWATER DRAINAGE WILL BE PROVIDED BY (DESCRIPTION:)

WHEN CONSTRUCTION IS COMPLETE. THE SITE DISCHARGES TO AN

BASINS WILL BE USED TO INTERCEPT SEDIMENT BEFORE ENTERING THE

CONTROLS THAT MAY BE IMPLEMENTED.

STORMWATER MANAGEMENT

WAS CONSTRUCTED.

THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORMWATER RUNOFF.

GOOD HOUSEKEEPING

THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ONSITE DURING THE CONSTRUCTION PROJECT.

* AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.

* ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT,

* PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS

THE ORIGINAL MANUFACTURER'S LABEL.

* WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER.

* MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.

* THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE

MATERIAL MANAGEMENT PRACTICES

ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS

POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.

* SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS

RECOMMENDED BY THE MANUFACTURER.

MATERIALS ONSITE RECEIVE PROPER USE AND DISPOSAL.

WASTE MATERIALS ALL WASTE MATERIALS EXCEPT LAND CLEARING DEBRIS SHALL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL LOCAL AND STATE SOLID WASTE MANAGEMENT REGULATIONS. THE DUMPSTER WILL BE EMPTIED AS NEEDED AND THE TRASH WILL BE HAULED TO A STATE APPROVED LANDFILL. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE PRACTICES WILL BE POSTED AT THE CONSTRUCTION SITE BY THE CONSTRUCTION SUPERINTENDENT, THE INDIVIDUAL WHO MANAGES THE DAY-TO-DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE

ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER. SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES AND THE SITE SUPERINTENDENT, THE INDIVIDUAL WHO MANAGES DAY-TO-DAY SITE OPERATIONS.WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE

ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS AS NEEDED TO PREVENT POSSIBLE SPILLAGE. THE WASTE WILL BE COLLECTED AND DEPOSED OF IN ACCORDANCE WITH STATE AND LOCAL WASTE DISPOSAL REGULATIONS FOR SANITARY SEWER OR SEPTIC SYSTEMS.

A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREET ADJACENT TO THE SITE ENTRANCE WILL BE SWEPT DAILY TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARPAULIN.

INVENTORY FOR POLLUTION PREVENTION PLAN

SITE. THE MATERIALS OR SUBSTANCES LISTED BELOW ARE EXPECTED TO

Concrete	Fertilizers	Wood
Asphalt	Petroleum Based Products	Masonry Blocks
☐ Tar	Cleaning Solvents	Roofing Materia
Detergents	Paints	Metal Studs

STRUCTURAL PRACTICES

TEMPORARY DIVERSION DIKE: TEMPORARY DIVERSION DIKES MA BE USED TO DIVERT RUNOFF THROUGH A SEDIMENT-TRAPPING

TEMPORARY SEDIMENT TRAP: A SEDIMENT TRAP SHALL BE INSTALLED IN AN DRAINAGEWAY AT A STORM DRAIN INLET OR AT OTHER POINTS OF DISCHARGE FROM A DISTURBED AREA. THE FOLLOWING SEDIMENT TRAPS MAY BE CONSTRUCTED EITHER INDEPENDENTLY OR IN CONJUNCTION WITH A TEMPORARY DIVERSION

AREAS WILL NOT SIGNIFICANTLY AFFECT OFF-SITE DEPOSIT

DISCHARGE DIRECTLY OFF-SITE SHALL BE PROTECTED FROM

ALL CONSTRUCTION OPERATIONS THAT MAY CONTRIBUTE

TEMPORARY SEEDING: AREAS OPENED BY CONSTRUCTION

RE-EXCAVATED OR DRESSED AND RECEIVE FINAL GRASSING

GROWING GRASS SPECIES WHICH WILL PROVIDE AN EARLY

WILL NOT LATER COMPETE WITH THE PERMANENT GRASSING.

THAN 6:1 THAT FALL WITHIN THE CATEGORY ESTABLISHED IN

MULCHING OF APPROXIMATELY 2 INCHES LOOSE MEASURE OF

HYDROMULCHED OR OTHER SUITABLE METHODS IF REQUIRED

GRASSING SHALL BE THE SAME MIX & AMOUNT REQUIRED FOR

TEMPORARY REGRASSING: IF, AFTER 14 DAYS FROM SEEDING,

PERMANENT GRASSING IN THE CONTRACT SPECIFICATIONS.

THE TEMPORARY GRASSED AREAS HAVE NOT ATTAINED A

MINIMUM OF 75 PERCENT GOOD GRASS COVER, THE AREA

MAINTENANCE: ALL FEATURES OF THE PROJECT DESIGNED

AND CONSTRUCTED TO PREVENT EROSION AND SEDIMENT

SUFFICIENT TO ESTABLISH THE DESIRED VEGETATIVE COVER.

WILL BE REWORKED AND ADDITIONAL SEED APPLIED

SHALL BE MAINTAINED DURING THE LIFE OF THE

ORIGINALLY DESIGNED AND CONSTRUCTED.

OR SODDED.

CONSTRUCTION SO AS TO FUNCTION AS THEY WERE

PERMANENT EROSION CONTROL: THE EROSION CONTROL

FACILITIES OF THE PROJECT SHOULD BE DESIGNED TO

MINIMIZE THE IMPACT ON THE OFFSITE FACILITIES.

PERMANENT SEEDING: ALL AREAS WHICH HAVE BEEN

DISTURBED BY CONSTRUCTION WILL, AS A MINIMUM, BE

SEEDED. THE SEEDING MIX MUST PROVIDE BOTH LONG-TERM

SLOPES STEEPER THAN 4:1 SHALL BE SEEDED AND MULCHED

VEGETATION AND RAPID GROWTH SEASONAL VEGETATION.

MULCH MATERIAL CUT INTO THE SOIL OF THE SEEDED AREA

ADEQUATE TO PREVENT MOVEMENT OF SEED AND MULCH.

COVER DURING THE SEASON IN WHICH IT IS PLANTED AND

TEMPORARY SEEDING AND MULCHING: SLOPES STEEPER

PARAGRAPH 8 ABOVE SHALL ADDITIONALLY RECEIVE

10. TEMPORARY GRASSING: THE SEEDED OR SEEDED AND

MULCHED AREA(S) SHALL BE ROLLED AND WATERED OR

TO ASSURE OPTIMUM GROWING CONDITIONS FOR THE

ESTABLISHMENT OF A GOOD GRASS COVER. TEMPORARY

TREATMENT WITHIN 30 DAYS SHALL BE SEEDED WITH A QUICK

OPERATIONS AND THAT ARE NOT ANTICIPATED TO BE

SEDIMENT-LADEN STORM RUNOFF UNTIL THE COMPLETION OF

INLET PROTECTION: INLETS AND CATCH BASINS WHICH

OF SEDIMENTS.

SEDIMENT TO THE INLET.

BLOCK & GRAVEL SEDIMENT FILTER - THIS PROTECTION IS APPLICABLE WHERE HEAVY FLOWS AND/OR WHERE AN OVERFLO CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND THE STRUCTURE.

GRAVEL SEDIMENT TRAP - THIS PROTECTION IS APPLICABLE WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED, BUT NOT WHERE PONDING AROUND THE STRUCTURE MIGHT CAUSE EXCESSIVE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES & UNPROTECTED AREAS.

DROP INLET SEDIMENT TRAP - THIS PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (S < 5%) AND WHERE SHEET OR OVERLAND FLOWS (Q < 0.5 CFS) ARE TYPICAL. THIS METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS SUCH AS IN STREET OR HIGHWAY MEDIANS.

OUTLET PROTECTION: APPLICABLE TO THE OUTLETS OF ALL PIPES AND PAVED CHANNEL SECTIONS WHERE THE FLOW COULD CAUSE EROSION & SEDIMENT PROBLEM TO THE RECEIVING WATER BODY. SILT FENCES & HAY BALES ARE TO BE INSTALLED IMMEDIATELY DOWNSTREAM OF THE DISCHARGING STRUCTURE AS SHOWN ON THE OUTLET PROTECTION DETAIL.

SEDIMENT BASIN: WILL BE CONSTRUCTED AT THE COMMON DRAINAGE LOCATIONS THAT SERVE AN AREA WITH 10 OR MORE DISTURBED ACRES AT ONE TIME, THE PROPOSED STORMWATER PONDS (OR TEMPORARY PONDS) WILL BE CONSTRUCTED FOR US AS SEDIMENT BASINS. THESE SEDIMENT BASINS MUST PROVIDE A MINIMUM OF 3,600 CUBIC FEET OF STORAGE PER ACRE DRAINED UNTIL FINAL STABILIZATION OF THE SITE. THE 3,600 CUBIC FEET C STORAGE AREA PER ACRE DRAINED DOES NOT APPLY TO FLOWS FROM OFFSITE AREAS AND FLOWS FROM ONSITE AREAS THAT ARE EITHER UNDISTURBED OR HAVE UNDERGONE FINAL STABILIZATION WHERE SUCH FLOWS ARE DIVERTED AROUND BOTH THE DISTURBED AREA AND THE SEDIMENT BASIN. ANY TEMPORARY SEDIMENT BASINS CONSTRUCTED MUST BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH THE SPECIFICATIONS FOR STRUCTURAL FILL ALL SEDIMENT COLLECTED IN PERMANENT OR TEMPORARY SEDIMENT TRAPS MUST BE REMOVED UPON FINAL STABILIZATION.

THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED

HAZARDOUS PRODUCTS

WITH HAZARDOUS MATERIALS. PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY

* ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE

RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION. * IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURER'S OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER

PRODUCT SPECIFIC PRACTICES THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ONSITE:

PETROLEUM PRODUCTS

ARE NOT RESEALABLE.

DISPOSAL WILL BE FOLLOWED.

ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ONSITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

FERTILIZERS

FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORMWATER. STORAGE WILL BE IN A COVERED AREA. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.

PAINTS

CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURERS' INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.

CONCRETE TRUCKS

CONCRETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON THE

SPILL CONTROL PRACTICES

IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:

MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED ON SITE AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.

MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ONSITE. EQUIPMENT AND MATERIALS WILL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, LIQUID ABSORBENT (i.e. KITTY LITTER OR EQUAL), SAND, SAWDUST, PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.

ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY. THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.

SPILL OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE OF THE SPILL.

THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED. THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS. WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR, HE/SHE WILL DESIGNATE AT LEAST ONE OTHER SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IF APPLICABLE, IN THE OFFICE TRAILER ONSITE.

MAINTENANCE/INSPECTION PROCEDURES

EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES

THE FOLLOWING ARE INSPECTION AND MAINTENANCE PRACTICES THAT WILL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS.

* NO MORE THAN 10 ACRES OF THE SITE WILL BE DENUDED AT ONE TIME WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.

* ALL CONTROL MEASURES WILL BE INSPECTED BY THE SUPERINTENDENT, THE PERSON RESPONSIBLE FOR THE DAY TO DAY SITE OPERATION OR SOMEONE APPOINTED BY THE SUPERINTENDENT, AT LEAST ONCE A WEEK AND FOLLOWING ANY STORM EVENT OF 0.25 INCHES OR GREATER.

* ALL TURBIDITY CONTROL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER; IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF REPORT.

* BUILT UP SEDIMENT WILL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE.

* SILT FENCE WILL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, TO SEE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS, AND TO SEE THAT THE FENCE POSTS ARE FIRMLY IN THE GROUND.

* DIVERSION DIKES/SWALES WILL BE INSPECTED AND ANY BREACHES PROMPTLY REPAIRED.

MAINTENANCE/INSPECTION PROCEDURES

THE SEDIMENT BASINS WILL BE INSPECTED FOR THE DEPTH OF SEDIMENT AND BUILT UP SEDIMENT WILL BE REMOVED WHEN IT REACHES 10 PERCENT OF THE DESIGN CAPACITY OR AT THE END OF THE JOB, WHICHEVER COMES FIRST.

TEMPORARY AND PERMANENT SEEDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.

* A MAINTENANCE INSPECTION REPORT WILL BE MADE AFTER EACH INSPECTION. A COPY OF THE REPORT FORM TO BE COMPLETED BY THE INSPECTOR IS ATTACHED. THE REPORTS WILL BE KEPT ON SITE DURING CONSTRUCTION AND AVAILABLE UPON REQUEST TO THE OWNER, ENGINEER OR ANY FEDERAL, STATE OR LOCAL AGENCY APPROVING SEDIMENT AND AND EROSION PLANS, OR STORMWATER MANAGEMENT PLANS. THE REPORTS SHALL BE MADE AND RETAINED AS PART OF THE WATER POLLUTION PREVENTION PLAN FOR AT LEAST THREE YEARS FROM THE DATE THAT THE SITE IS FINALLY STABILIZED AND THE NOTICE OF TERMINATION IS SUBMITTED THE REPORTS SHALL IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE.

* THE SITE SUPERINTENDENT WILL SELECT UP TO THREE INDIVIDUALS WHO WILL BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES, AND FILLING OUT THE INSPECTION AND MAINTENANCE REPORT.

PERSONNEL SELECTED FOR INSPECTION AND MAINTENANCE RESPONSIBILITIES WILL RECEIVE TRAINING FROM THE SITE. SUPERINTENDENT. THEY WILL BE TRAINED IN ALL THE INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ONSITE IN GOOD WORKING ORDER.

NON-STORMWATER DISCHARGES

IT IS EXPECTED THAT THE FOLLOWING NON-STORMWATER DISCHARGES WILL OCCUR FROM THE SITE DURING THE CONSTRUCTION PERIOD:

WATER FROM WATER LINE FLUSHING

*PAVEMENT WASH WATERS (WHERE NO SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE OCCURRED).

UNCONTAMINATED GROUNDWATER (FROM DEWATERING

ALL NON-STORMWATER DISCHARGE WILL BE DIRECTED TO THE SEDIMENT BASIN PRIOR TO DISCHARGE.

CONTRACTOR'S CERTIFICATION

CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND THAT AUTHORIZES THE STORM CONDITIONS OF THE DEP GENERIC PERMIT WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION.

S RESPONSIBLE FOR/DUTIES	GENERAL CONTRACTOR	SUB-CONTRACTOR	SUB-CONTRACTOR	SUB-CONTRACTOR	SUB-CONTRACTOR
BUSINESS NAME AND ADDRESS OF CONTRACTOR & ALL SUBS					
SIGNATURE					



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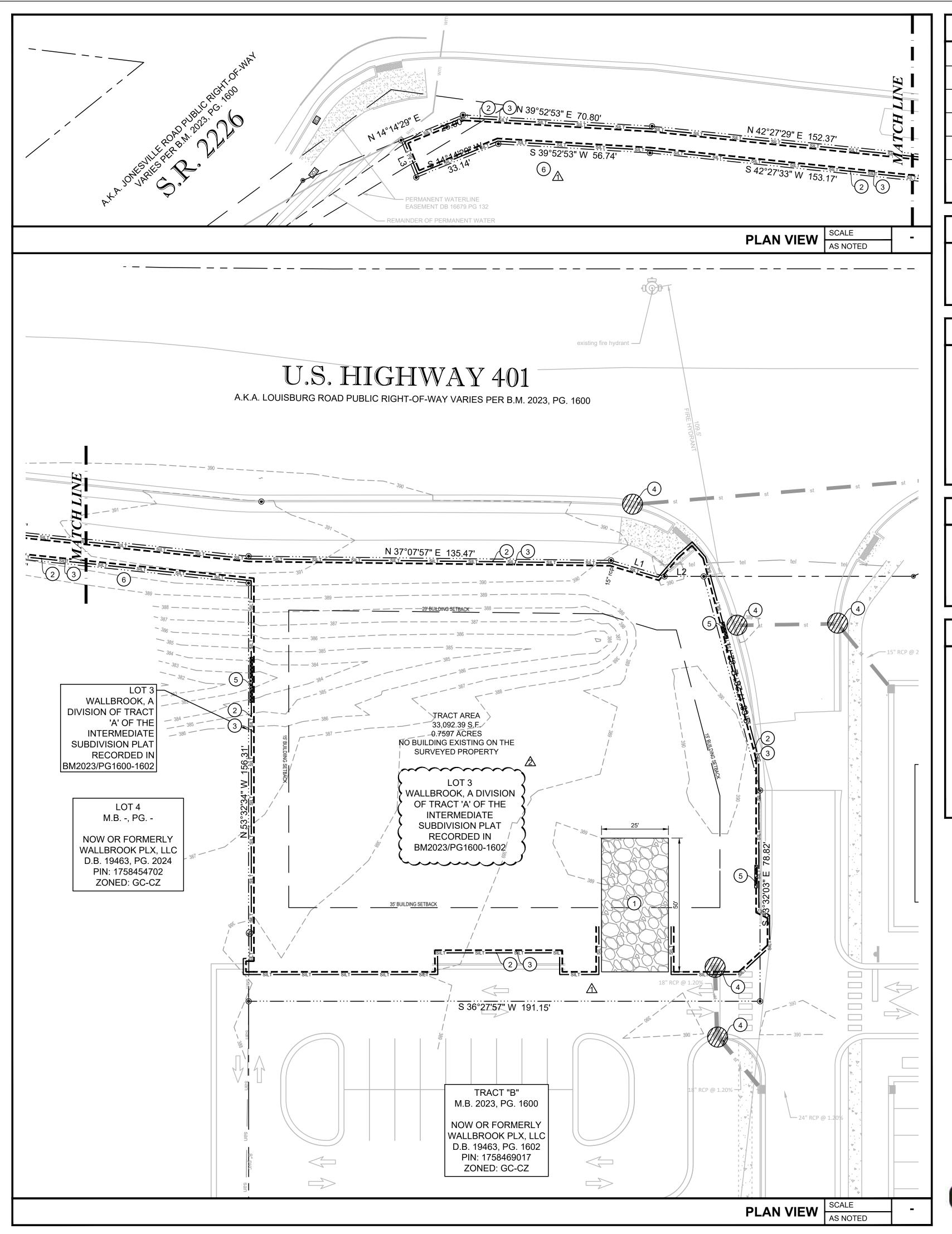
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SWPPP REQUIREMENTS



EROSION CONTROL KEYED NOTES

CRUSHED STONE CONSTRUCTION ENTRANCE AND CONCRETE TRUCK **WASHOUT AREA**

SILT FENCE

LIMITS OF CONSTRUCTION

SILT FENCE OUTLET

INLET PROTECTION

A TEMPORARY CONSTRUCTION EASEMENT MAY BE REQUIRED/PROVIDED PRIOR TO CONSTRUCTION.

GC TO COORDINATE WITH THE DEVELOPER TO OBTAIN A TEMPORARY CONSTRUCTION EASEMENT AS NEEDED.

GENERAL NOTES

- ALL MATERIALS INCLUDING FILL STOCKPILES SHALL NOT BE PERMANENTLY LOCATED ON THE UNDEVELOPED AREA OF PROPOSED DEVELOPMENT.
- ALL DISTURBED AREAS OF UNDEVELOPED PROPERTY SHALL BE HYDROMULCHED WITH SEED TO ESTABLISH TURN AND PREVENT SILT RUNOFF INTO THE STREETS.

STOCKPILES NOTE:

- STOCKPILE HEIGHT SHALL NOT EXCEED 35 FEET.
- STOCKPILE SLOPES SHALL BE 2:1 OR FLATTER STOCKPILING MATERIALS ADJACENT TO A DITCH, DRAINAGEWAY, WATERCOURSE,
- WETLAND, STREAM BUFFER, OR OTHER BODY OF WATER SHALL BE AVOIDED UNLESS AN ALTERNATIVE LOCATION IS DEMONSTRATED TO BE UNAVAILABLE SEEDING OR COVERING STOCKPILES WITH TARPS OR MULCH IS REQUIRED AND WILL
- REDUCE EROSION PROBLEMS. TARPS SHOULD BE KEYED IN AT THE TOP OF THE SLOPE TO KEEP WATER FROM RUNNING UNDERNEATH THE PLASTIC. (BUILDERS, ETC.), THE FINANCIAL RESPONSIBLE PARTY MUST NOTIFY WAKE COUNTY OF
- NEW RESPONSIBLE PARTY FOR THAT STOCKPILE. THE APPROVED PLAN SHALL PROVIDE FOR THE USE OF STAGED SEEDING AND MULCHING
- ON A CONTINUAL BASIS WHILE THE STOCKPILE IS IN USE. ESTABLISH AND MAINTAIN A VEGETATIVE BUFFER AT THE TOE OF THE SLOPE (WHERE

GENERAL NOTE:

ALL CONSTRUCTION ACTIVITY MUST BE CONDUCTED IN ACCORDANCE WITH THE ACCEPTED POLICIES OF THE TOWN OF MORRISVILLE, AND UNLESS SPECIFIED, DEFERS TO THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION (NCDOT) STANDARD SPECIFICATIONS.

WAKE COUNTY OR JURISDICTIONAL MUNICIPALITY MUST GRANT PERMISSION TO CONVERT THE SEDIMENT BASIN OVER TO STORMWATER USE PRIOR TO COMPLETING ANY RELATED

EROSION CONTROL NOTES

- THE CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL CODES IN OBSERVING EROSION CONTROL MEASURES BOTH ON AND OFF SITE.
- THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES AFTER EACH RAINFALL EVENT OR AS DIRECTED BY LOCAL AUTHORITIES OR ENGINEER.
- TOTAL DISTURBED AREA: 0.68 ACRES. ALL STORM DRAINAGE PIPES SHALL BE THOROUGHLY FLUSHED OF ALL SEDIMENT FOLLOWING SITE STABILIZATION. INTERIOR FLUSHING OF SYSTEM SHALL BE PERFORMED AS NEEDED TO MAINTAIN PROPER FUNCTIONING OF THE DRAINAGE SYSTEM. CONTRACTOR IS RESPONSIBLE FOR CAPTURING AND PROPERLY DISPOSING OF ALL SEDIMENT FLUSHED FROM THE EXISTING AND NEW STORM SYSTEM.
- ALL STREETS IN FRONT OF PROJECT WILL BE KEPT CLEAN AT ALL TIMES OR A WASH
- STATION WILL BE REQUIRED. SEE SHEET L01.01 FOR SEEDING SCHEDULES.
- ADDITIONAL EROSION CONTROL MEASURES NOT SHOWN ON THIS PLAN MAY BE REQUIRED TO INSURE NO SEDIMENT LEAVES THE SITE. THE CONTRACTOR IS EXPECTED TO NOTIFY THE ARCHITECT OR ENGINEER IMMEDIATELY IF THEY FEEL ADDITIONAL MEASURES ARE
- THE CONTRACTOR MUST COMPLY WITH ALL PROVISIONS OF THE NORTH CAROLINA GENERAL STORMWATER PERMIT FOR LAND DISTURBING CONSTRUCTION ACTIVITIES.

LEGEND

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PROPERTY LINE

EXISTING TO REMAIN

EXISTING CONCRETE TO REMAIN

SILT FENCE XXXXXXX LIMITS OF CONSTRUCTION

SILT FENCE OUTLET A



×428.33

INLET PROTECTION

EXISTING CONTOUR

EXISTING GRADE ELEVATION

EROSION CONTROL DETAILS

LIMITS OF DISTURBANCE	0.76 ACRES	Δ		
TOTAL SITE AREA	0.76 ACRES			

SLOPE & SURFACE STABILIZATION

PURSUANT TO G.S. 113A-57(2), THE ANGLE FOR GRADED SLOPES AND FILLS SHALL BE NO (WHICHEVER IS SHORTER) FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT. DURING THE ESTABLISHMENT OF VEGETATIVE COVER ON ALL STEEP SLOPES (6:1 OR STEEPER) INSTALL MATTING PER MANUFACTURER'S INSTRUCTIONS.

CONSTRUCTION SEQUENCE

SCHEDULE A PRECONSTRUCTION CONFERENCE WITH THE ENVIRONMENTAL ENGINEER,

- INSTALL GRAVEL CONSTRUCTION PAD, TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS OR OTHER MEASURES AS SHOWN ON THE APPROVED PLAN. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES. SEED TEMPORARY DIVERSIONS, BERMS AND BASINS IMMEDIATELY AFTER CONSTRUCTION.
- CALL KARYN PAGEAU AT 919-796-8769 FOR AN ONSITE INSPECTION BY THE ENVIRONMENTAL BEGIN CLEARING AND GRUBBING. MAINTAIN DEVICES AS NEEDED. ROUGH GRADE SITE.
- INSTALL STORM SEWER, IF SHOWN, AND PROTECT INLETS WITH BLOCK AND GRAVEL INLET CONTROLS, SEDIMENT TRAPS OR OTHER APPROVED MEASURES AS SHOWN ON THE PLAN. BEGIN CONSTRUCTION, BUILDING, ETC.
- STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISH GRADE WITH VEGETATION, PAVING, DITCH LININGS, ETC. SEED AND MULCH DENUDED AREAS WITHIN FIFTEEN (15) DAYS OF
- COMPLETION OF ANY PHASE OF CONSTRUCTION. WHEN CONSTRUCTION IS COMPLETE AND ALL AREAS ARE STABILIZED COMPLETELY, CALL KARYN PAGEAU AT 919-796-8769 FOR AN INSPECTION BY THE ENVIRONMENTAL ENGINEER.
- 8. IF SITE IS APPROVED, REMOVE TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS, ETC., AND SEED OUT OR STABILIZE ANY RESULTING BARE AREAS. ALL REMAINING PERMANENT EROSION CONTROL DEVICES, SUCH AS VELOCITY DISSIPATERS, SHOULD NOW
- WHEN VEGETATION HAS BECOME ESTABLISHED, CALL FOR A FINAL SITE INSPECTION BY THE ENVIRONMENTAL ENGINEER, KARYN PAGEAU AT 919-796-8769 OBTAIN A CERTIFICATE OF

SCALE

architects

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IEG Job No. 15-309.00

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10/28/24 TRC ROUND 1

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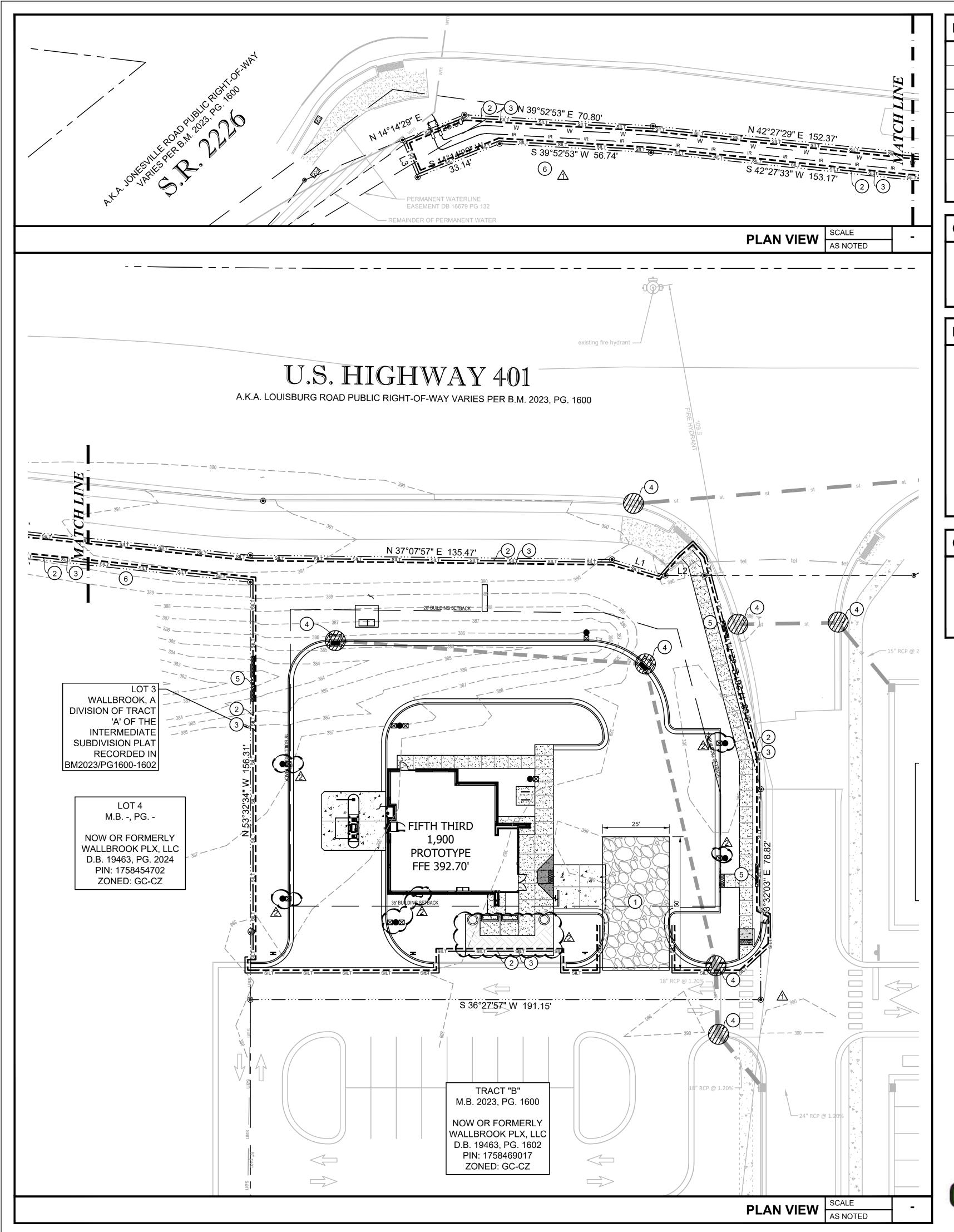
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EROSION CONTROL KEYED NOTES

CRUSHED STONE CONSTRUCTION ENTRANCE AND CONCRETE TRUCK **WASHOUT AREA**

SILT FENCE

LIMITS OF CONSTRUCTION

SILT FENCE OUTLET

INLET PROTECTION

A TEMPORARY CONSTRUCTION EASEMENT MAY BE REQUIRED/PROVIDED PRIOR TO CONSTRUCTION.

GC TO COORDINATE WITH THE DEVELOPER TO OBTAIN A TEMPORARY CONSTRUCTION EASEMENT AS NEEDED.

GENERAL NOTES

- ALL MATERIALS INCLUDING FILL STOCKPILES SHALL NOT BE PERMANENTLY LOCATED ON THE UNDEVELOPED AREA OF PROPOSED DEVELOPMENT.
- ALL DISTURBED AREAS OF UNDEVELOPED PROPERTY SHALL BE HYDROMULCHED WITH SEED TO ESTABLISH TURN AND PREVENT SILT RUNOFF INTO THE STREETS.

EROSION CONTROL NOTES

THE CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL CODES IN OBSERVING EROSION CONTROL MEASURES BOTH ON AND OFF SITE.

- THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES AFTER EACH RAINFALL EVENT OR AS DIRECTED BY LOCAL AUTHORITIES OR ENGINEER.
- TOTAL DISTURBED AREA: 0.60 ACRES.
- ALL STORM DRAINAGE PIPES SHALL BE THOROUGHLY FLUSHED OF ALL SEDIMENT FOLLOWING SITE STABILIZATION. INTERIOR FLUSHING OF SYSTEM SHALL BE PERFORMED AS NEEDED TO MAINTAIN PROPER FUNCTIONING OF THE DRAINAGE SYSTEM. CONTRACTOR IS RESPONSIBLE FOR CAPTURING AND PROPERLY DISPOSING OF ALL SEDIMENT FLUSHED FROM THE EXISTING AND NEW STORM SYSTEM.
- ALL STREETS IN FRONT OF PROJECT WILL BE KEPT CLEAN AT ALL TIMES OR A WASH STATION WILL BE REQUIRED.
- SEE SHEET L01.01 FOR SEEDING SCHEDULES.
- ADDITIONAL EROSION CONTROL MEASURES NOT SHOWN ON THIS PLAN MAY BE REQUIRED TO INSURE NO SEDIMENT LEAVES THE SITE. THE CONTRACTOR IS EXPECTED TO NOTIFY
- THE CONTRACTOR MUST COMPLY WITH ALL PROVISIONS OF THE NORTH CAROLINA GENERAL STORMWATER PERMIT FOR LAND DISTURBING CONSTRUCTION ACTIVITIES.

GENERAL NOTE:

ALL CONSTRUCTION ACTIVITY MUST BE CONDUCTED IN ACCORDANCE WITH THE ACCEPTED POLICIES OF THE TOWN OF MORRISVILLE, AND UNLESS SPECIFIED, DEFERS TO THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION (NCDOT) STANDARD SPECIFICATIONS.

WAKE COUNTY OR JURISDICTIONAL MUNICIPALITY MUST GRANT PERMISSION TO CONVERT THE SEDIMENT BASIN OVER TO STORMWATER USE PRIOR TO COMPLETING ANY RELATED

LEGEND

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PROPERTY LINE

4. 4. 4. 4.

EXISTING TO REMAIN SILT FENCE

INLET PROTECTION

EXISTING CONCRETE TO REMAIN

XXXXXXX

SILT FENCE OUTLET 1 LIMITS OF CONSTRUCTION

— — — –388**– — — —** EXISTING CONTOUR

×428.33 **EXISTING GRADE ELEVATION**

EROSION CONTROL DETAILS

LIMITS OF DISTURBANCE 0.76 ACRES TOTAL SITE AREA 0.76 ACRES

SLOPE & SURFACE STABILIZATION

PURSUANT TO G.S. 113A-57(2), THE ANGLE FOR GRADED SLOPES AND FILLS SHALL BE NO ADEQUATE EROSION- CONTROL DEVICES OR STRUCTURES. IN ANY EVENT, SLOPES LEFT (WHICHEVER IS SHORTER) FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT. DURING THE ESTABLISHMENT OF VEGETATIVE COVER ON ALL STEEP SLOPES (6:1 OR STEEPER) INSTALL MATTING PER MANUFACTURER'S INSTRUCTIONS.

CONSTRUCTION SEQUENCE

- SCHEDULE A PRECONSTRUCTION CONFERENCE WITH THE ENVIRONMENTAL ENGINEER, KARYN PAGEAU AT 919-796-8769. OBTAIN A LAND-DISTURBING PERMIT. INSTALL GRAVEL CONSTRUCTION PAD, TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT
- BASINS OR OTHER MEASURES AS SHOWN ON THE APPROVED PLAN. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES. SEED TEMPORARY DIVERSIONS, BERMS AND CALL KARYN PAGEAU AT 919-796-8769 FOR AN ONSITE INSPECTION BY THE ENVIRONMENTAL
- BEGIN CLEARING AND GRUBBING. MAINTAIN DEVICES AS NEEDED. ROUGH GRADE SITE. INSTALL STORM SEWER, IF SHOWN, AND PROTECT INLETS WITH BLOCK AND GRAVEL INLET
- CONTROLS, SEDIMENT TRAPS OR OTHER APPROVED MEASURES AS SHOWN ON THE PLAN. BEGIN CONSTRUCTION, BUILDING, ETC. STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISH GRADE WITH VEGETATION, PAVING,
- DITCH LININGS, ETC. SEED AND MULCH DENUDED AREAS WITHIN FIFTEEN (15) DAYS OF COMPLETION OF ANY PHASE OF CONSTRUCTION.
- WHEN CONSTRUCTION IS COMPLETE AND ALL AREAS ARE STABILIZED COMPLETELY, CALL KARYN PAGEAU AT 919-796-8769 FOR AN INSPECTION BY THE ENVIRONMENTAL ENGINEER.
- 8. IF SITE IS APPROVED, REMOVE TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS, ETC., AND SEED OUT OR STABILIZE ANY RESULTING BARE AREAS. ALL REMAINING PERMANENT EROSION CONTROL DEVICES, SUCH AS VELOCITY DISSIPATERS, SHOULD NOW BE INSTALLED.
- WHEN VEGETATION HAS BECOME ESTABLISHED, CALL FOR A FINAL SITE INSPECTION BY THE ENVIRONMENTAL ENGINEER, KARYN PAGEAU AT 919-796-8769 OBTAIN A CERTIFICATE OF

SCALE

++++++++++

20'

40 '

60



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NISIT SAPPARKHAO, P.E. NC REG. NO. 38066



ISSUE	BY	DATE	DESCRIPTION
		08/16/24	PERMIT SET
Λ		10/28/24	TRC ROUND 1
2		01/03/25	TRC ROUND 2

PROJECT INFORMATION BLOCK 230634

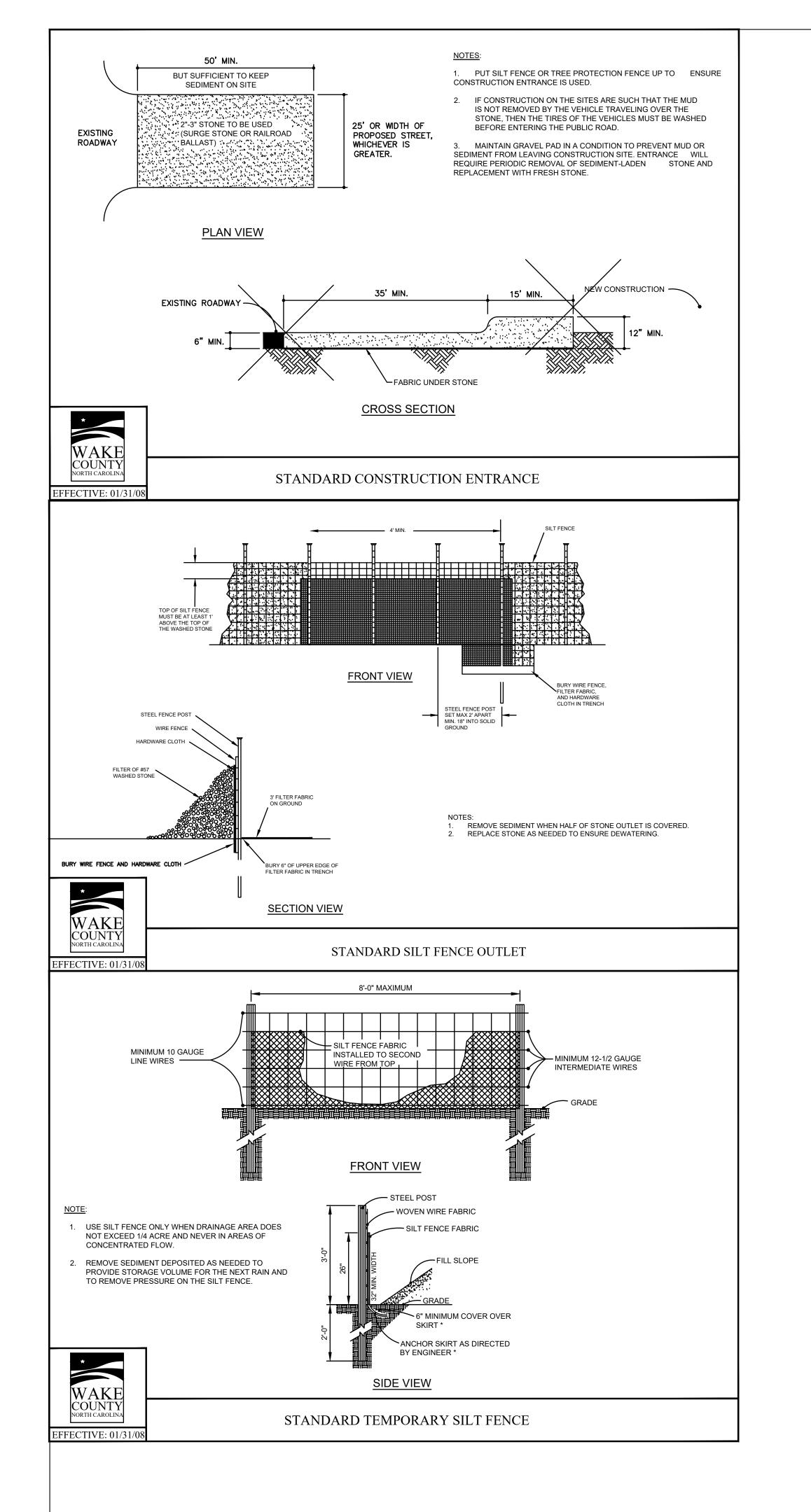
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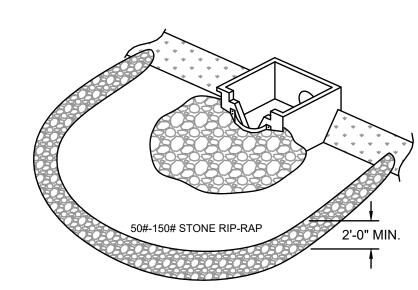
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EROSION CONTROL PLAN

PHASE II SHEET NUMBER

C06.03



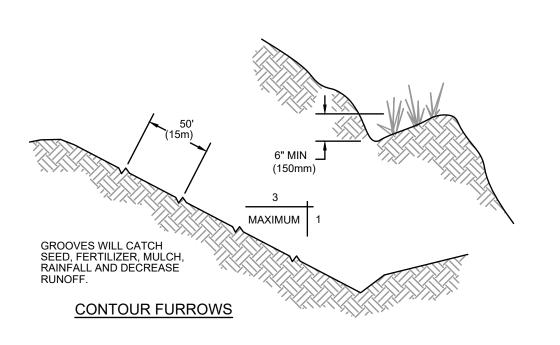


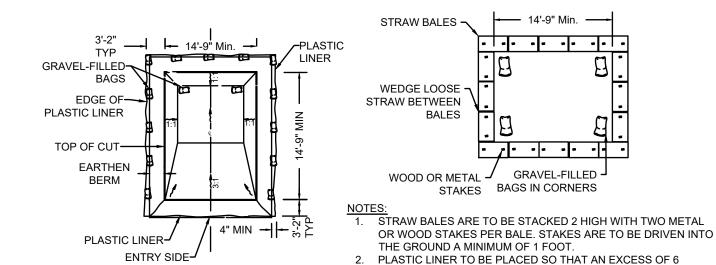
A TEMPORARY STONE BARRIER CONSTRUCTED AT STORM DRAIN INLETS AND POND OUTLETS TO REDUCE FLOW VELOCITIES, PREVENT FAILURE OF OTHER SEDIMENT CONTROL DEVICES AND TO PREVENT SEDIMENT FROM LEAVING THE SITE OR ENTERING DRAINAGE SYSTEMS.

STONE FILTER RING



TRACKING





BELOW GRADE PLAN

(OR LARGER) ARE TO BE USED PER BALE TO ANCHOR THE PLASTIC LINER IN PLACE. GRAVEL-FILLED BAG ON GRADE PLAN -EARTHEN BERM PLASTIC LINER PLACED UNDER BERM (ENTRY SIDE ONLY) ORIGINAL GROUND-

SECTION A-A

WASHOUT OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED A SUITABLE WASHOUT FACILITY MUST BE PROVIDED FOR THE CLEANING OF CHUTES, MIXERS, AND HOPPERS OF THE DELIVERY VEHICLES UNLESS SUCH A FACILITY WILL BE USED AT THE SOURCE OF THE CONCRETE.UNDER NO

STRAW BALES ~

BALES

WOOD OR METAL -

STAKES BAGS IN CORNERS

INCHES WILL BE OVER THE OUTSIDE EDGE OF THE BALES.

ORIGINAL GROUND

3. A MINIMUM OF TWO 8"x2"x8" 16 GAUGE STEEL ANCHOR PINS

THE GROUND A MINIMUM OF 1 FOOT.

EARTHEN BERM SECTION

ENTER ANY SURFACE WATERS. 3. A 4'X2' WHITE SIGN WITH 6" BLACK LETTERS STATING "CONCRETE WASHOUT" IS TO BE PROVIDED SO DRIVERS ARE AWARE OF THE PRESENCE OF WASHOUT

CIRCUMSTANCES MAY WASH WATER FROM THESE VEHICLES BE ALLOWED TO

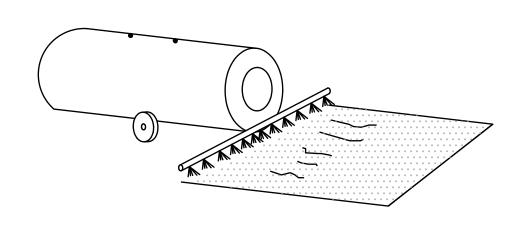
FACILITIES. 4. WASHOUT FACILITIES SHOULD NOT BE PLACED WITHIN 50 FEET OF STORM DRAINS, OPEN DITCHES OR SURFACE WATERS. THEY SHOULD BE IN A CONVENIENT LOCATION FOR THE TRUCKS, PREFERABLY NEAR THE PLACE WHERE THE

CONCRETE IS BEING POURED, BUT FAR ENOUGH FROM OTHER VEHICULAR TRAFFIC TO MINIMIZE THE POTENTIAL FOR ACCIDENTAL DAMAGE OR SPILLS. 5. THE CONTRACTOR SHALL INSPECT THE WASH DOWN AREA INTERMITTENTLY TO

6. IN THE EVENT OF A SPILL OR LEAK THE CONTRACTOR SHALL IMMEDIATELY REPORT & REMEDIATE SAME IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL LAWS.

TEMPORARY CONCRETE WASHOUT FACILITY

ENSURE PROPER CONTAINMENT IS ACCOMPLISHED.



TEMPORARY METHODS
- MULCHES - TEMPORARY VEGETATIVE COVER - SPRAY ON ADHESIVES - TILLAGE

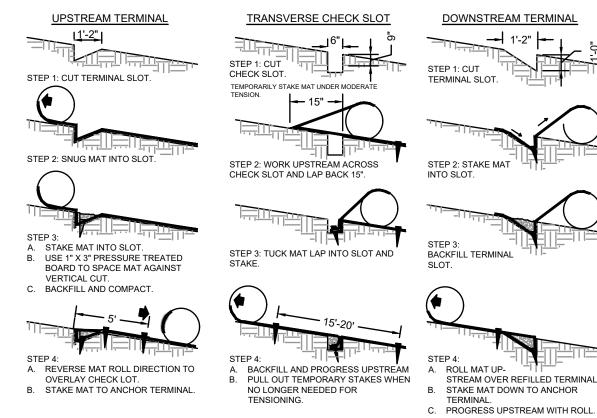
- CALCIUM CHLORIDE

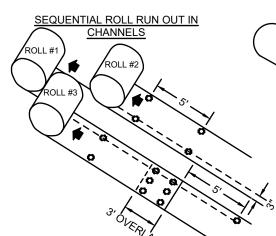
PERMANENT VEGETATION TOPSOILING STONE COVER - IRRIGATION - BARRIERS

CHEMICAL CONTROL

CHEMICAL CONTROL							
ADHESIVE	WATER DILUTION	TYPE OF NOZZLE	APPLICATION RATE (GAL/AC)				
ANIOIC ASPHALT EMULSION	7.1*	SPRAY	1200				
LATEX EMULSION	12 1/2:1*	FINE SPRAY	235				
RESIN-IN- WATER EMULSION	4:1*	FINE SPRAY	300				

*USE MANUFACTURER'S RECOMMENDATIONS WHEN AVAILABLE





MANUFACTURES SPECIFICATIONS

PICTORIAL VIEW OF TRANSVERSE SLOT NOTES:

1. START AT DOWNSTREAM TERMINAL AND PROGRESS UPSTREAM.

2. START AT DOWNSTREAM TERMINAL AND PROGRESS UPSTREAM. FIRST ROLL IS CENTERED LONGITUDINALLY IN MID-CHANNEL AND PINNED WITH TEMPORARY STAKES TO MAINTAIN ALIGNMENT.

THE FIRST ROLL. USE THE CENTER ROLL FOR ALIGNMENT TO THE WORK OUTWARDS FROM THE CHANNEL CENTER TO THE EDGE USE 3" OVERLAPS AND STAKE AT 5' INTERVALS ALONG THE SEAMS. USE 3' OVERLAPS AND SHINGLE DOWNSTREAM TO CONNECT THE LINING AT THE ROLL ENDS.

RECP- ROLLED EROSION CONTROL PRODUCT EROSION BLANKETS & TURF REINFORCEMENT MATS

INSTALL NORTH AMERICAN GREEN SC-150 EROSION BLANKET OR EQUAL U.N.O. INSTALL PER

GENERAL NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING SILT FROM SITE IF NOT REUSABLE ON-SITE AND ASSURING PLAN ALIGNMENT AND GRADE IN ALL DITCHES AND SWALES AT COMPLETION OF CONSTRUCTION.

2. THE SITE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER COMPLETION OF CONSTRUCTION AND ONLY WHEN AREAS HAVE BEEN STABILIZED.

3. ADDTIONAL PROTECTION - ON-SITE PROTECTION IN ADDITION TO THE ABOVE MUST BE PROVIDED THAT WILL NOT PERMIT SILT TO LEAVE THE PROJECT CONFINES DUE TO UNSEEN CONDITIONS OR ACCIDENTS.

4. CONTRACTOR SHALL INSURE THAT ALL DRAINAGE STRUCTURES, PIPES. ETC. ARE CLEANED OUT AND WORKING PROPERLY AT TIME OF ACCEPTANCE.

5. THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING THE BEST MANAGEMENT PRACTICES (BMP) AND MOST CURRENT EROSION AND SEDIMENT CONTROL PRACTICES. THIS PLAN INDICATES THE MINIMUM EROSION AND SEDIMENT MEASURES REQUIRED FOR THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR MEETING ALL APPLICABLE RULES, REGULATIONS AND WATER QUALITY GUIDELINES AND MAY NEED TO INSTALL ADDITIONAL CONTROLS.

PRE-Construction SITE PROTECTION:

8. EROSION AND SEDIMENT CONTROL BARRIERS SHALL BE PLACED ADJACENT TO ALL WETLAND AREAS WHERE THERE IS POTENTIAL FOR DOWNSTREAM WATER QUALITY DEGRADATION. SEE DETAIL SHEET FOR TYPICAL CONSTRUCTION.

9. ANY DISCHARGE FROM DEWATERING ACTIVITY SHALL BE FILTERED AND CONVEYED TO THE OUTFALL IN A MANNER WHICH PREVENTS EROSION AND TRANSPORTATION OF SUSPENDED SOLIDS TO THE RECEIVING OUTFALL.

10. DEWATERING PUMPS SHALL NOT EXCEED THE CAPACITY OF THAT WHICH REQUIRES A CONSUMPTIVE USE PERMIT FROM THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

11. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-THIRD (1/3) THE HEIGHT OF THE BARRIER OR INLET. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.

12. ALL DISTURBED AREAS ARE TO BE STABILIZED THROUGH COMPACTION. SILT SCREENS, SYNTHETIC BALES, AND GRASSING. ALL FILL SLOPES 3:1 OR STEEPER TO RECEIVE STAKED SOLID SOD.

SITE PROTECTION:

13. THE FILTER BARRIER SHALL BE ENTRENCHED AND BACKFILLED PROPERLY. A TRENCH SHALL BE EXCAVATED TO A MINIMUM DEPTH OF 6 INCHES. BARRIER IS STAKED, THE EXCAVATED SOIL OR GRAVEL SHALL BE BACKFILLED AND COMPACTED AGAINST THE FILTER BARRIER. USING WIRE BACKING FOR SUPPORT IS DISCOURAGED DUE TO DISPOSAL PROBLEMS.

14. WATER OR SLURRY USED TO CONTROL DUST SHALL BE RETAINED ON THE SITE AND NOT ALLOWED TO RUN DIRECTLY INTO WATERCOURSE OR STORMWATER CONVEYANCE

15. SPECIAL AREAS SHALL BE DESIGNATED AS VEHICLE AND EQUIPMENT WASHING AREAS AND SUCH AREAS SHALL NOT ALLOW RUNOFF TO FLOW DIRECTLY INTO WATERCOURSE OR STORMWATER CONVEYANCE SYSTEMS.

16. SILT FENCE BARRIERS ARE NOT TO BE USED WHERE CONCENTRATED FLOWS OF WATER ARE ANTICIPATED SUCH AS DRAINAGE DITCHES. AROUND INLETS OR ABOVE/ BELOW WHERE CULVERTS DISCHARGE.

17. SYNTHETIC BALES, SANDBAGS OR OTHER APPROVED DEVICE FACED WITH FILTER FABRIC SHALL BE USED IN HIGH VOLUME AREAS TO DECREASE THE RUNOFF

18. ALL DEVICES INCLUDING SILT FENCE. FILTER BARRIERS. SYNTHETIC BALES AND/OR SANDBAGS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED BARRIERS. END RUNS AND UNDERCUTTING BENEATH BARRIERS.

19. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.

VELOCITY AND SHALL BE SECURELY ANCHORED

20, SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL BE NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.

STORM DRAIN INLET PROTECTION:

21. FILTER FABRIC SHALL BE LAID OVER INLETS SO THAT THE FABRIC EXTEND A MINIMUM OF 1 FOOT BEYOND EAST SIDE OF THE INLET STRUCTURE. IF MORE THAN ONE STRIP OF FABRIC IS NECESSARY, THE STRIPS SHALL BE OVERLAPPED.

22. 2 INCH - 3 INCH COARSE AGGREGATE SHALL BE PLACED OVER THE FILTER FABRIC. THE DEPTH OF STONE SHALL BE AT LEAST 6 INCHES OVER THE ENTIRE INLET OPENING. THE STONE SHALL EXTEND BEYOND THE INLET OPENING AT LEAST 18 INCHES ON ALL SIDES.

23. IF STONE FILTERS BECOME CLOGGED WITH SEDIMENT SO THAT THEY NO LONGER ADEQUATELY PERFORM THEIR FUNCTION, THE STONES MUST BE PULLED AWAY FROM

THE INLET, CLEANED AND REPLACED. POST-CONSTRUCTION SITE PROTECTION:

24. ALL DEWATERING, EROSION AND SEDIMENT CONTROL TO REMAIN IN PLACE AFTER

25. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER TEMPORARY BARRIERS ARE. NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE. PREPARED AND SEEDED. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA IN SUCH A MANNER THAT IT WILL NOT ERODE.

26. ALL DISTURBED AREAS SHALL BE GRASSED, FERTILIZED, MULCHED AND MAINTAINED UNTIL A PERMANENT VEGETATIVE COVER IS ESTABLISHED.

COMPLETION OF CONSTRUCTION AND REMOVED ONLY WHEN AREAS HAVE STABILIZED

27. SOD SHALL BE PLACED IN AREAS WHICH MAY REQUIRE IMMEDIATE EROSION PROTECTION TO ENSURE WATER QUALITY STANDARDS ARE MAINTAINED.

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ISSUE BY DATE DESCRIPTION

		08/16/24	PERMIT SET		
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PROJECT INFORMATION BLOCK					
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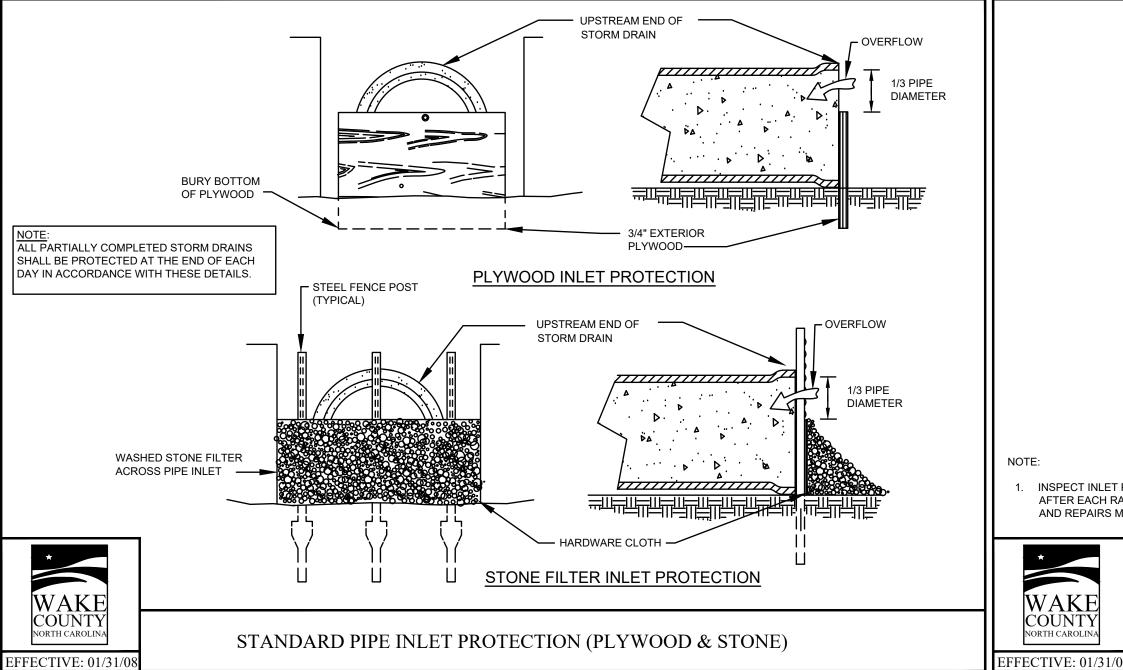
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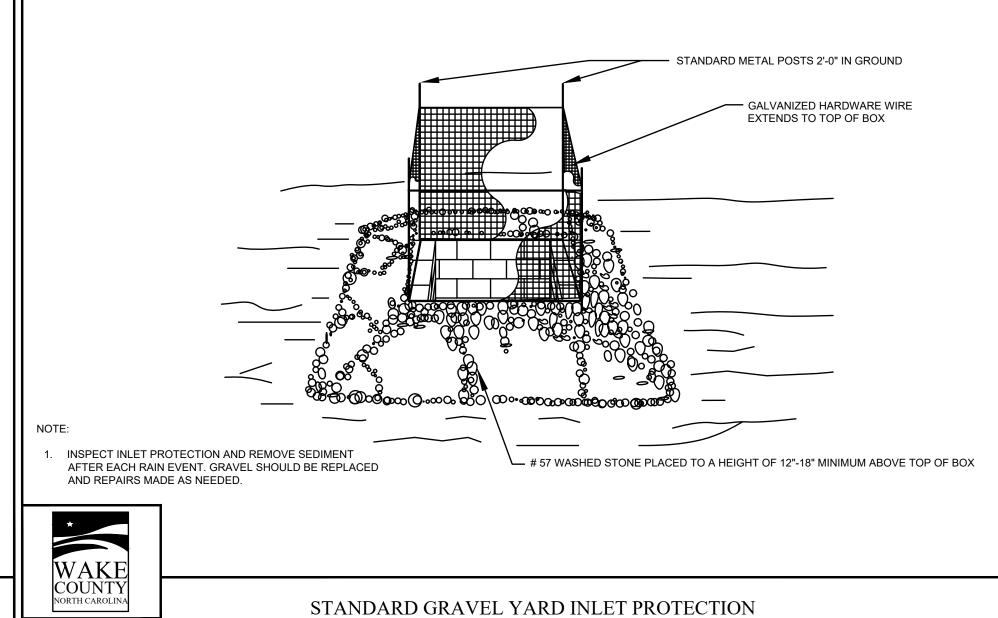
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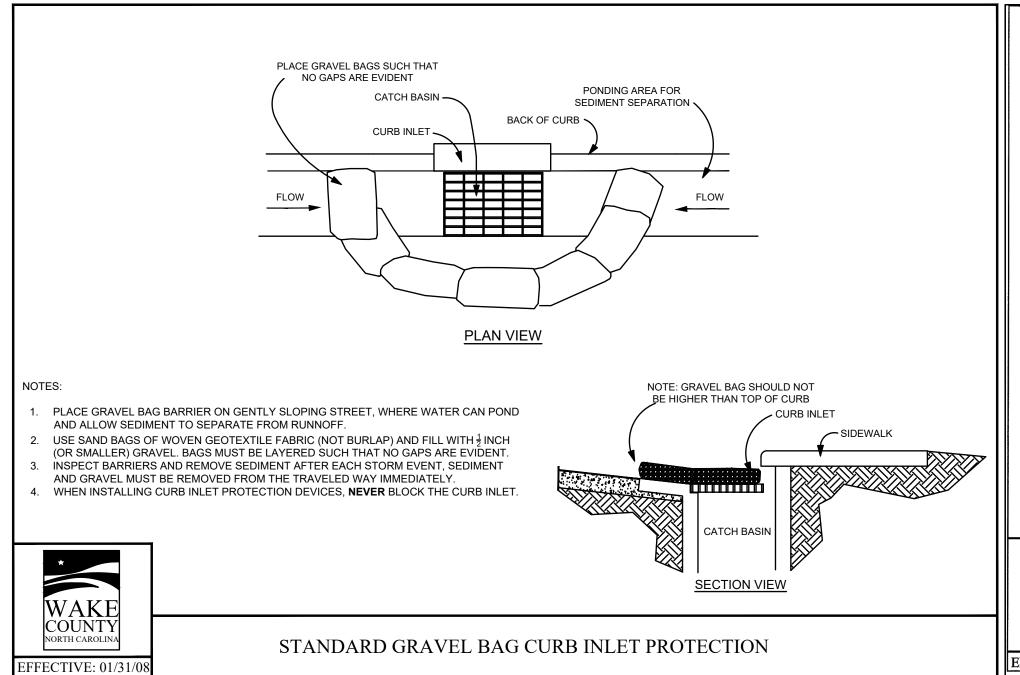
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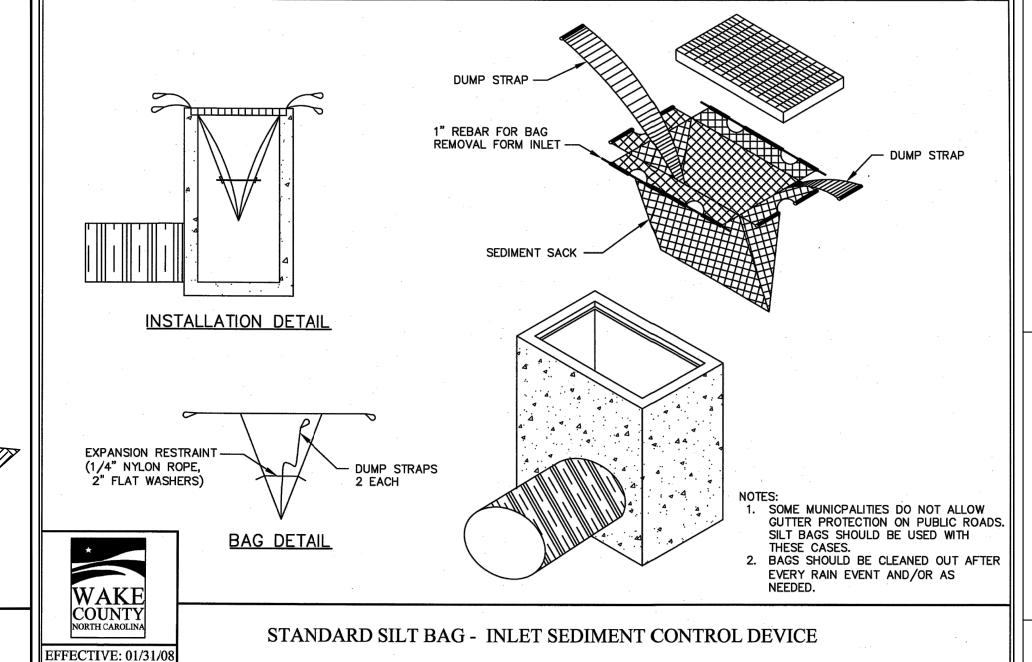
SHEET TITLE **EROSION AND** SEDIMENTATION

CONTROL DETAILS **SHEET NUMBER**











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01/03/2025 DATE

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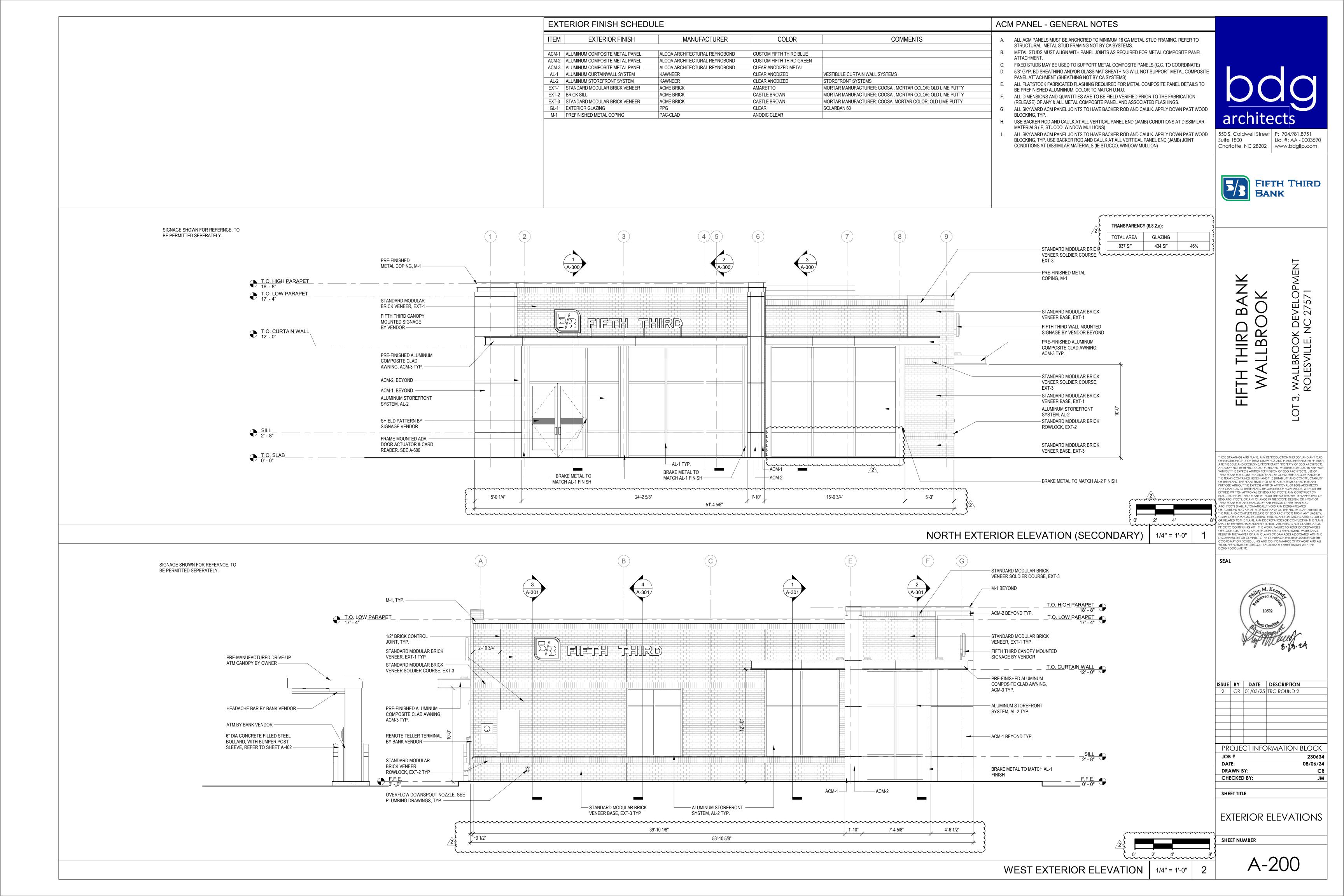
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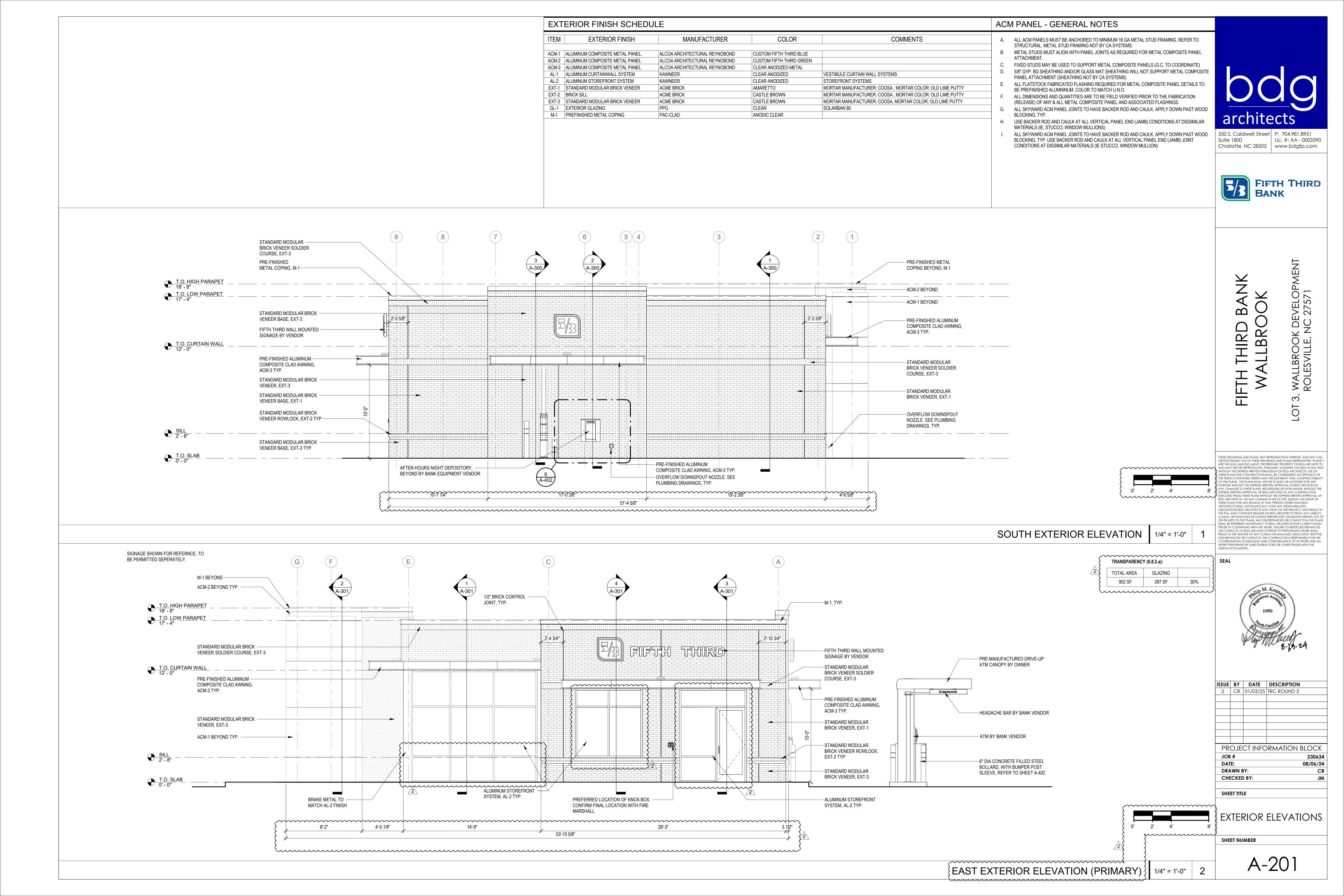
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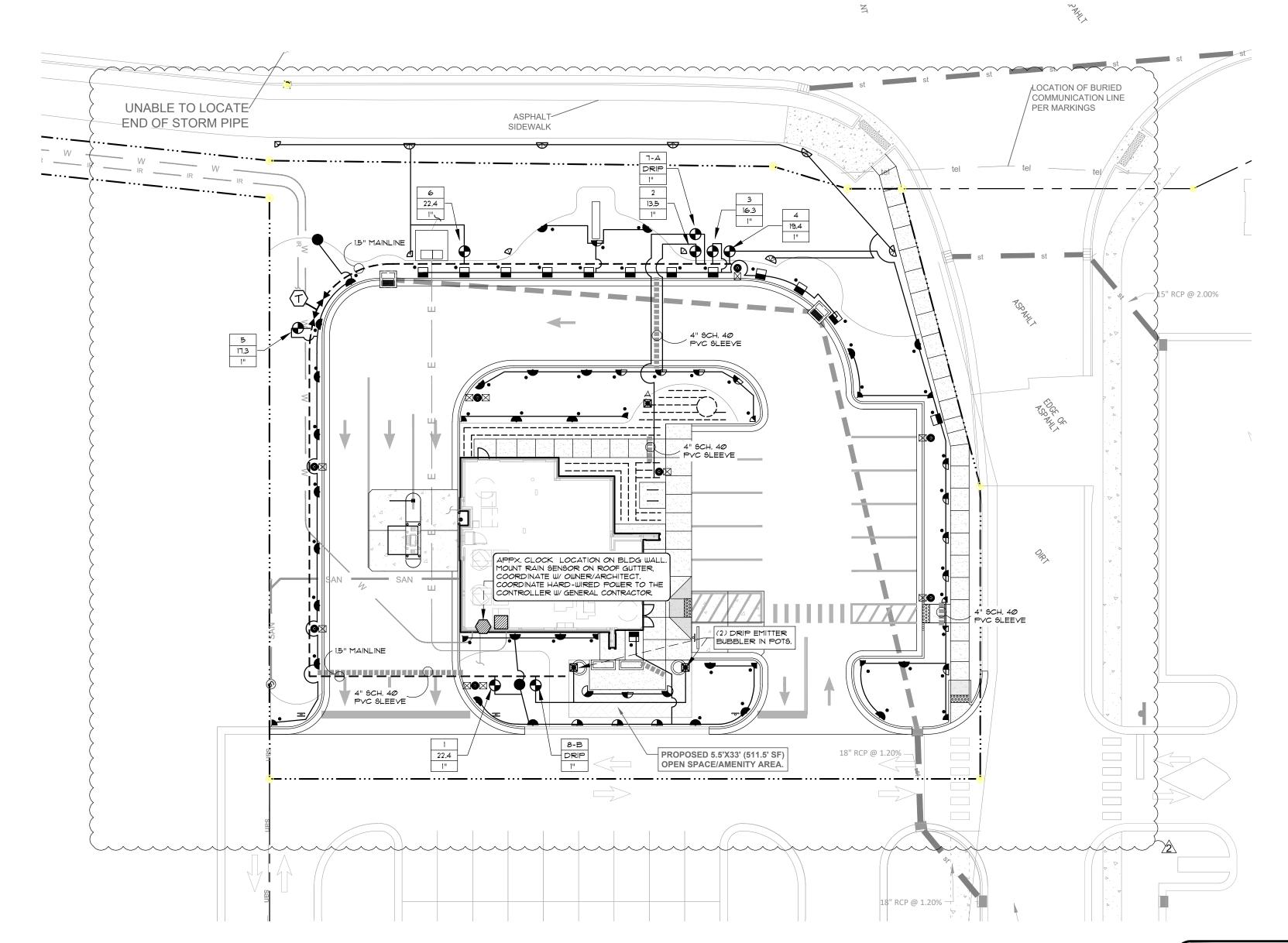
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IRRIGATION NOTES

LAWNS.

- THE CONTRACTOR'S ATTENTION IS CALLED TO THE FACT THAT THERE ARE 13. OTHER ACTIVE UTILITIES AND SERVICES IN AND AROUND THE SITE. CONTRACTOR IS RESPONSIBLE FOR LOCATING THESE TO AVOID DAMAGE TO14.
- THE CONTRACTOR SHALL MAKE ANY NECESSARY ADJUSTMENTS IN THE PROPOSED IRRIGATION SYSTEM TO AVOID ANY DAMAGE TO EXISTING STRUCTURES, PAVING, AND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ON-SITE 15.
- UTILITIES, STRUCTURES, OR PAVING RESULTING FROM IRRIGATION CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFORMING TO ALL
- CODES AND ORDINANCES RELEVANT TO THE WORK UNDER THIS CONTRACT. ALL WORK, ADJUSTMENTS, AND INSPECTIONS SHALL BE SUBJECT TO THE 16.
- APPROVAL OF THE LANDSCAPE ARCHITECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATERIALS AND LABOR TO FULLY EXECUTE AND GUARANTEE, AS REQUIRED, THE TOTAL WORK SHOWN ON THIS PLAN IN ACCORDANCE WITH SPECIFICATIONS, AND ALSO AS PER INSTRUCTIONS OF THE LANDSCAPE ARCHITECT AND THE
- 1. THE CONTRACTOR SHALL VERIFY ALL QUANTITIES TO ASSURE ADEQUATE INSTALLATION OF THE SYSTEM.
- THE LOCATION OF THE AUTOMATIC CONTROL CLOCK IS GENERALLY INDICATED ON THE DRAWING AND WILL BE SPECIFICALLY LOCATED ON-SITE
- BY THE LANDSCAPE ARCHITECT OR OWNER. 9. LINE LOCATIONS AS INDICATED ON THE PLAN ARE SCHEMATIC. THE CONTRACTOR SHALL LOCATE ALL LINES IN SUCH A WAY AS TO CAUSE THE LEAST CONFLICT WITH THE LOCATION OF PROPOSED PLANT MATERIALS (AS
- SHOWN ON THE LANDSCAPE PLANTING PLAN) AND OTHER SITE AMENITIES. 10. ALL MAIN LINES SHALL BE INSTALLED A MAXIMUM OF 2' FROM THE BACK OF CURBS WHERE POSSIBLE. LATERAL LINES SHALL BE INSTALLED LIKEWISE
- WHERE POSSIBLE. ALL MAINLINES SHALL BE INSTALLED AT A MINIMUM OF 18" DEEP AND ALL LATERAL LINES SHALL BE INSTALLED AT A MINIMUM OF 12" DEEP.

ACTUAL HEAD PLACEMENT IN PARKING LOT ISLANDS IS TO BE 18" FROM BACK OF CURB FOR SHRUB PLANTINGS AND 6" FROM BACK OF CURB FOR

- THE CONTRACTOR SHALL ADJUST THE RADIUS AND ARC OF EACH HEAD TO MINIMIZE "OVERTHROW" AND TO ELIMINATE "DRY SPOTS". THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SUPPLY AND INSTALLATION OF ADDITIONAL HEADS NEEDED TO COVER "DRY SPOTS" OR SLIGHT VARIATIONS FROM THE PLAN TO THE SITE. THE LOCATION AND ARRANGEMENT OF THESE HEADS SHALL BE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT. THE ELECTRIC SUPPLY WILL BE STUBBED OUT AT THE CONTROL CLOCK LOCATION BY OTHERS. THE IRRIGATION CONTRACTOR SHALL BE
- RESPONSIBLE FOR ALL ELECTRICAL CONNECTIONS FROM CONTROL VALVES TO THE CONTROL CLOCK. COORDINATE ELECTRIC SUPPLY WITH GENERAL CONTRACTOR THE ENTIRE SYSTEM SHALL BE UNCONDITIONALLY GUARANTEED BY THE

IRRIGATION CONTRACTOR AGAINST ALL DEFECTIVE WORK AND MATERIALS FOR A PERIOD OF ONE YEAR FOLLOWING THE DATE OF FINAL ACCEPTANCE.

- 1) EXCEPT FOR OBVIOUS CROSSINGS, PIPE IS IN PAYING USE VARIABLE ARC SPRAY HEADS WHEN NECESSARY OR OUTSIDE OF PROPERTY LINE FOR GRAPHIC CLARITY ONLY.
- 2) ALL WORK SHALL BE DONE WITH IN PROPERTY LINES.
- 3) CONTRACTOR SHALL INSTALL AUTOMATIC DRAIN VALVES AT ALL LOW POINTS IN SYSTEM.

INSTALLED ON 12" RISERS.

4) ALL HEADS IN SHRUB BEDS SHALL BE

SLEEVING NOTES

- 1. THE LOCATIONS OF SLEEVES, AS SHOWN ON THIS PLAN, ARE SCHEMATIC. THE CONTRACTOR SHALL MAKE ANY ADJUSTMENT NECESSARY TO ACCOMMODATE EXISTING VEGETATION, UTILITIES, NATURAL BARRIERS OR OTHER MAJOR CONSTRUCTION.
- ANY DAMAGE TO EXISTING UTILITIES, STRUCTURES, OR OTHER CONSTRUCTION RESULTING FROM INSTALLATION OF SLEEVES IS THE RESPONSIBILITY OF THE CONTRACTOR. 3. WHERE A JOINT BETWEEN PIPE SECTIONS IS NECESSARY, THE INSIDE DIAMETER
- OF THE PIPE SHALL NOT BE SIGNIFICANTLY REDUCED. 4. P.Y.C. SLEEVES SHALL BE INSTALLED AT A DEPTH OF AT LEAST 18" BELOW PAVEMENT SURFACE, AND NO DEEPER THAN 24". END OF SLEEVE SHALL EXTEND 12" BEYOND CURB OR PAVEMENT EDGE.
- 5. BACKFILL MATERIAL PLACED AROUND THE SLEEVES SHALL BE FREE OF ROCKS OR OTHER FOREIGN MATTER THAT MAY CAUSE DAMAGE TO THE PIPE. 6. THE CONTRACTOR SHALL INSTALL A P.V.C. STUB THAT IS AT LEAST IS" ABOVE GRADE AT EACH END OF THE SLEEVE TO MARK ITS EXACT LOCATION. IRRIGATION SLEEVES SHALL BE INDICATED WITH BLUE RIBBON. ELECTRICAL SLEEVES SHALL BE INDICATED WITH ORANGE RIBBON, SEE SLEEVING DETAIL.
- ONCE THE SLEEVE IS INSTALLED, THE CONTRACTOR SHALL INSTALL A TEMPORARY CAP ON EACH END OF THE PIPE ACCORDING TO THE DETAIL TO PREVENT SOIL OR OTHER DEBRIS FROM ENTERING THE PIPE. 8. ALL MODIFICATIONS OF THIS PLAN ARE SUBJECT TO THE APPROVAL OF THE
- LANDSCAPE ARCHITECT. 9. THE CONTRACTOR SHALL SUPPLY THE LANDSCAPE ARCHITECT WITH AN "AS-BUILT" PLAN OF THE LOCATION OF ALL SLEEVES PRIOR TO ACCEPTANCE
- 10. ALL PVC SHOULD BE SCH40 P.V.C PIPE

IRRIGATION DESIGNED TO PROVIDE SEPARATION BETWEEN LAWN AND SHRUB ZONES WHERE POSSIBLE. CONTRACTOR IS NOT TO CHANGE ZONE SEPARATION FROM PLANS UNLESS PRIOR APPROVAL IS MADE.

COMMISSIONING NOTES:

TO COMMISSION THE WEATHERMATIC SMART IRRIGATION CONTROLLER PLEASE DO THE FOLLOWING:

- CONFIRM THAT ALL THREE PIECES OF EQUIPMENT (CONTROLLER, WEATHER STATION, AND AIRCARD)
- ARE PROPERLY INSTALLED. PROVIDE WEATHERMATIC THE AIRCARD NUMBER THAT IS ON THE SIDE OF THE AIRCARD (20-DIGIT LONG NUMBER)
- WHEN SHARING THIS INFORMATION WITH WEATHERMATIC, YOU SHOULD ALSO NOTE THAT THIS IS A FIFTH THIRD BANK CORPORATE LOCATION AND PROVIDE THE SITE ID NUMBER AND ADDRESS.
- CONTRACTOR TO CONTACT WEATHERMATIC REPRESENTATIVE KELSI VAQUERA WITH ANY QUESTIONS. CONTACT PRIOR TO WORK FOR COORDINATION OF INSTALLATION AND SMART IRRIGATION ACCOUNT ACTIVATION AND COMMISSIONING. KELSI.YAQUERA@WEATHERMATIC.COM OR (316) 516-3625

CONTROLLER NOTES:

MOUNT CONTROLLER ON THE EXTERIOR OF THE BUILDING PREFERABLY NEAR THE UTILITY ENTRANCE

MOUNT SENSOR ON THE EVE OF THE BUILDING SO IT HAS A CLEAR VIEW OF THE SKY FOR PROPER RAINFALL DETECTION AND IS AWAY FROM ANY ARTIFICIAL HEAT SOURCES.

360-90° ARCS

SPECIFICATIONS

IRRIGATION LEGEND

RAINBIRD ROTORS - 5000-MPR PLUS-40 NOZZLE, 6" POP-UP,

RAINBIRD SPRAYS - 15 SERIES MPR, 6" POP-UP, 360-90° ARCS

RAINBIRD SPRAYS - 10 SERIES MPR, 6" POP-UP, 360-90° ARCS RAINBIRD SPRAYS - 15 STRIP SERIES, 6" POP-UP, END & SIDE STRIPS

RAINBIRD PGA SERIES / RAINBIRD XCZ-1000-PRB-COM - SPRAY/DRIP ZONE

ELECTRIC REMOTE CONTROL VALVE, SIZE AS PER DRAWINGS 3/4" BRASS QUICK COUPLING VALVE IN VALVE BOXES AS PER

I 1/2" MANUAL ISOLATION VALVE IN MAINLINE, STOCKHAM CLASS 150, B-103 POINT OF CONNECTION - 1.5" TAP, BACKFLOW PREVENTER AND WATER METER BY GENERAL CONTRACTOR

MANUAL DRAIN VALVE AT LOW POINT IN MAINLINE

WEATHERMATIC SLIGOO SMARTLINE CONTROLLER W/ SMARTLINK AIRCARD - COORDINATE HARD-WIRED POWER TO THE CONTROLLER W/ GENERAL CONTRACTOR WEATHERMATIC SLW5 WIRELESS ON SITE WEATHER SENSOR

COORDINATE LOCATION WITH ENGINEER/ARCHITECT MAINLINE SCH40 PVC, SIZE AS PER DRAWING

LATERAL LINE CLASS 200 PVC SIZE AS PER DRAWING SLEEVING SCH40 PVC BY IRRIGATION CONTRACTOR SIZE AS PER DRAWING. COORDINATE WITH GENERAL CONTRACTOR

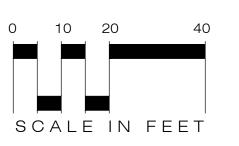
TOP LINE # INDICATES CONTROLLER CIRCUIT NUMBER MIDDLE LINE * IS CALCULATED FLOW IN GALLONS/MINUTE BOTTOM LINE * INDICATES SIZE OF VALVE REQUIRED

SYSTEM DESIGN PRESSURE - 60 PSI

NOTES:

- 1) POWER TO CONTROLLER BY ELECTRICAL CONTRACTOR
- 2) USE VARIABLE ARC SPRAY HEADS WHEN NECESSARY 3) THERE IS TO BE (2) 4" PVC SLEEVES EACH TIME MAINLINE CROSSES HARDSCAPE:
- ONE (1) 4" PVC SLEEVE FOR MAINLINE CROSSING ONE (1) 2" PVC SLEEVE FOR WIRING AT MAINLINE CROSSING 4) THERE IS TO BE (1) 4" PVC SLEEVE AS REQUIRED FOR ALL LATERAL LINES CROSSING
- 5) ALL EQUIPMENT REQUIRED BUT NOT SPECIFIED ON THE DRAWINGS SHALL BE PROVIDED BY THE CONTRACTOR.
- 6) YERIFY TAP: IRRIGATION CONTRACTOR TO TEST WATER CONDITIONS AS THEY EXIST MMEDIATELY DOWN STREAM FROM TAP: IF THEY DO NOT MEET DESIGN DEMANDS,
- 1) MATCH PRECIPITATION RATES ON ALL CIRCUITS.
- 8) ALL WORK MUST COMPLY WITH LOCAL CODES. 9) NO ELECTRICAL CONNECTIONS SHALL BE MADE IN THE FIELD EXCEPT AT A VALVE CONTROL BOX OR ANOTHER VALVE BOX SPECIFICALLY FOR CONNECTIONS. 10) ANY DISCREPANCY BETWEEN THIS SHEET AND OTHERS IN THIS SET MUST BE REFERRED
- TO THE IRRIGATION CONSULTANT BY THE CONTRACTOR FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
- 11) ALL 24 VOLT WIRE SHALL BE #12 UF/UL FOR COMMON WIRE, AND #14 UF/UL FOR CONTROL WIRES, DIRECT BURIAL, SOLID COPPER.
- 12) CONTRACTOR TO BE RESPONSIBLE FOR PROPER COVERAGE OF AREAS TO BE WATERED. I.E. ADJUST HEADS WITH INSUFFICIENT COVERAGE DUE TO BLOCKAGE BY EXISTING OR PROPOSED SITE FEATURES.
- 13) CONTRACTOR TO REFER TO LANDSCAPE PLAN TO KEEP SPRINKLER EQUIPMENT AND ACCESSORY MATERIAL FROM INTERFERING WITH PROPER PLANTING, I.E. VERIFY
- ROOTBALL SIZE FOR PLANTING. 14) CONTRACTOR SHALL PROVIDE EXPANSION COILS AT EACH WIRE CONNECTION IN VALVE
- BOX (WRAP AROUND 3/4" PIPE 12 TIMES). 15) CONTRACTOR TO UTILIZE APPROPRIATE AUTOMATIC DRAIN DEVICE WHERE LOW HEAD
- DRAINAGE MAY OCCUR.
- 16) ALL MATERIAL TO BE SUPPLIED BY CONTRACTOR TO OWNER. A. TWO WRENCHES FOR DISASSEMBLING AND ADJUSTING EACH TYPE OF SPRINKLER
- HEADS AND VALVE SUPPLIED.
- B. TWO KEYS FOR EACH OF THE AUTOMATIC CONTROLLERS. C. TWO QUICK COUPLER KEYS WITH MATCHING HOSE SWIVELS.
- 17) 24 YOLT WIRE SHALL BE COLOR CODED: COMMON-WHITE, CONTROL-RED. 18) CONTRACTOR TO ADD EXTENSION RISER TO POP-UP HEADS WHEN NEEDED FOR
- PROPER COVERAGE. 19) ELECTRIC YALVE CONTROL WIRE TO BE 14 GAUGE MINIMUM, IRRIGATION CONTRACTOR
- MUST PLACE ONE EXTRA "HOT" WIRE AND ONE EXTRA "COMMON" AT FURTHEST VALVE IN EACH DIRECTION FROM CLOCK.
- 20) ALL MAIN LINES SHALL BE INSTALLED A MAXIMUM OF 2' FROM THE BACK OF CURBS WHERE POSSIBLE. LATERAL LINES SHALL BE INSTALLED LIKEWISE WHERE POSSIBLE.
- 21) DO NOT MAKE SUBSTITUTIONS: IF CONTRACTOR DESIRES TO MAKE SUBSTITUTIONS OF MATERIALS, SUFFICIENT DESCRIPTIVE LITERATURE AND MATERIAL SAMPLES MUST BE FURNISHED TO ESTABLISH THE MATERIAL AS AN EQUAL SUBSTITUTE. IN ADDITION, THE CONTRACTOR MUST STATE HIS REASONS FOR DESIRING SUBSTITUTE MATERIALS. SUBMIT THIS REQUEST AND INFORMATION TO LANDSCAPE ARCHITECT.









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LAND PLANNERS



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OK 27 UBLIX AT NORTH LOT 3 OLESVILI



INFINITY ENGINEERING GROUP, PLLC 1208 East Kennedy Boulevard Suite 230 Tampa, FL 33602

[p]: 813.434.4770 Ifl: 813,445,4211 www.iegroup.net

IEG Job No. 15-309.00

NC Firm Certificate No. P-1836



ISSUE	BY	DATE	DESCRIPTION
		08/16/24	PERMIT SET
2		01/03/24	TRC ROUND 2
PRC)JE(CT INFOF	rmation block
JOB	#		23063
DATE	:		08/16/202
DRA	WN B	Y:	JCC

SHEET TITLE

CHECKED BY:

IRRIGATION PLAN

SHEET NUMBER





550 S. Caldwell Street | P: 704.981.8951 Suite 1800 Lic. #: AA - 0003590 Charlotte, NC 28202 W: www.bdgllp.com



OK 27

T WALLBROC CAROLINA

UBLIX AT

LLBRC LOT 3 -OLESVILLE OLES

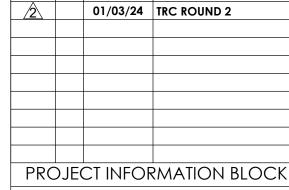
INFINITY

INFINITY ENGINEERING GROUP, PLLC 1208 East Kennedy Boulevard Suite 230 Tampa, FL 33602

[p]: 813.434.4770 [f]: 813.445.4211 www.iegroup.net NC Firm Certificate No. P-1836 IEG Job No. 15-309.00

SEAL





ISSUE BY DATE DESCRIPTION 08/16/24 | PERMIT SET

JOB# 230634 DATE: 08/16/2024 DRAWN BY: JCO CHECKED BY: WRJ

SHEET TITLE

LANDSCAPE PLAN

SHEET NUMBER

L-110

U.S. HIGHWAY 401 LOCATION OF BURIED COMMUNICATION LINE UNABLE TO LOCATE PER MARKINGS **END OF STORM PIPE** SIDEWALK 3 PEARL GLAM BEAUTYBERRY 3 GAL. 3' OC 3 PEARL GLAM BEAUTYBERRY 3 GAL, 3' OC 6 LTL RICHARD ABELIA 6 LTL RICHARD ABELIA 9 LTL RICHARD ABELIA < 50D7 1 GROW LOW FRAGRANT SUMAC 3 GAL. @ 4' OC 2 WILLOW OAK 3" CAL. 10 WINTERGEM BOXWOOD 31 LTL RICHARD ABELIA 15" RCP @ 2.00% 30 PRAGUE VIBURNUM 3 GAL. @ 4' OC 33 SF ASIATIC JASMINE GAL. @ 16" OC 19 DWF YAUPON HOLLY 3 GAL. @ 3' OC 15 WINTERGEM BOXWOOD 11 DUF YAUPON HOLLY 3 GAL. @ 3' OC 2 BLACK GUM I MAGYAR GINKGO 3 GROW LOW FRAGRANT SUMAC 3 GAL. @ 4' OC 19 WINTERGEM BOXWOOD 1 DWF YAUPON HOLLY 3 GAL. @ 3' OC 3 GROW LOW FRAGRANT SUMAC 3 GAL. @ 4' OC 14 WINTERGEM BOXWOOD 87 SF ASIATIC JASMINE GAL. @ 16" OC 3 WINTERGEM BOXWOOD 3 GROW LOW FRAGRANT SUMAC 3 GAL. @ 4' OC 71 SF ASIATIC JASMINE GAL. @ 16" OC 2 WILLOW OAK 3" CAL. 3 WINTERGEM BOXWOOD 18" HT 2 GROW LOW FRAGRANT SUMAC 3 GAL. @ 4' OC 22 SF ASIATIC JASMINE GAL. @ 16" OC 4 G. L. F. SUMAC 3 GAL. @ 4' OC 10 WINTERGEM BOXWOOD 18" HT 1 ROSEMARY 7 GAL. ROSEMARY 1 INKBERRY 3 GAL. 3' OC 10 GROW LOW FRAGRANT SUMACE 3 GAL. @ 4' OC 66 SF ASIATIC JASMINE GAL. @ 16" OC A SINGLE CONTINUOUS ROW OF 71 SF ASIATIC JASMINE SHRUBS PLANTED NO GREATER 1 WILLOW OAK 3" CAL. 1 W. BOXWOOD THAN THREE (3) FEET ON-CENTER AND WITHIN FIVE (5) FEET OF THE -SOD-PARKING LOT EDGÉ. PROPOSED 5.5'X33' (511.5' SF) 50' BANK ATM SECURITY 4 WINTERGEM BOXWOOD OPEN SPACE/AMENITY AREA. LIGHTING CLEAR ZONE. SEE NOTE THIS SHEET.

NOTES:

PLANS.

- 1) IF CONFLICTS EXIST BETWEEN PROPOSED LANDSCAPE AND SITE LIGHTING, UTILITIES OR OTHER, LANDSCAPE, CONTRACTOR IS TO CONTACT LANDSCAPE ARCHITECT IMMEDIATELY. ADJUST AS NECESSARY AND COORDINATE WITH LANDSCAPE ARCHITECT WHERE INSTALLED LOCATION OF LIGHTING VARIES FROM
- 2) IF SITE CONDITIONS EXIST, SUCH AS LOW AREAS THAT WILL POTENTIALLY HOLD WATER, OR ANY CONDITIONS THAT PROPOSE A THREAT TO THE LONG TERM SURVIVAL OF THE NEW LANDSCAPE, THE LANDSCAPE CONTRACTOR IS TO CONTACT THE LANDSCAPE ARCHITECT FOR CHANGES.
- 3) IF THESE CONDITIONS ARE NOT COORDINATED DURING CONSTRUCTION, THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR RELOCATING NEW MATERIAL AT DIRECTIVE OF THE LANDSCAPE ARCHITECT AT TIME OF PUNCH LIST.
- 4) SIGNAGE SHOWN AS SCHEMATIC. IF VARIANCE OCCURS, LANDSCAPE AND IRRIGATION TO BE AND ADJUSTED TO ACTUAL LOCATION. COORDINATE WITH LANDSCAPE ARCHITECT FOR CHANGES.
- 5) ALL SHRUBS AT FRONT OF PARKING AREAS: CENTER OF PLANT TO BE LOCATED 42" FROM BACK OF CURB.
- 6) ALL SHRUBS ALONG DRIVES OR CURB: CENTER OF PLANT TO BE LOCATED 36' FROM BACK OF CURB.
- 1) CONTRACTOR RESPONSIBLE FOR OFF SITE DISTURBANCE AND REPLACEMENT OF LANDSCAPE / PLANT MATERIAL WITH LIKE KIND.
- 8) IF CONFLICTS EXIST BETWEEN PLANTINGS AND SITE ELEMENTS, CONTRACTOR SHALL COORDINATE TREE PLANTINGS WITH BUILDING AND MONUMENT SIGNAGE AND COORDINATE ALL ADJUSTMENTS AS NECESSARY TO ELIMINATE ANY CONFLICTS. IF COORDINATION IS NOT MADE WITH ARCHITECT / CBRE, CONTRACTOR WILL BE RESPONSIBLE FOR RELOCATION OF MATERIAL AND ADJUSTMENTS AT TIME OF PUNCH LIST AS DIRECTED.
- 9) ALL PLANTING BEDS AND TREE PITS SHALL BE MULCHED WITH A 3" SETTLED LAYER OF SINGLE SHREDDED MULCH - NO NUGGETS. IF WITHIN A DEVELOPMENT REQUIRING PARTICULAR MULCH, CONTRACTOR TO INSTALL AS REQUIRED WITH BANK APPROVAL.

PROJECT WILL BE REVIEWED FOR PLAN CONFORMITY BY LANDSCAPE ARCHITECT. ALL MATERIAL TO BE 'GRADE A' MEETING NURSERY STANDARDS AND PLANT LIST SPECIFICATIONS. MATERIAL NOT MEETING SPECIFICATIONS OR NOT SUPERIOR QUALITY WILL BE REJECTED AT TIME OF PUNCH LIST AND SUBJECT TO REPLACEMENT BY CONTRACTOR AT HIS OR HER EXPENSE.

ANY LANDSCAPE WITHIN 50 FEET OF THE ATM OR NIGHT DROP SHALL BE NO HIGHER THAN 24" ABOVE GRADE AND SHALL BE MAINTAINED AT THIS HEIGHT THROUGHOUT THE LIFE OF THE PLANT.

PLANT SCHEDULE

BOTANICAL NAME	COMMON NAME	CAL	HT	SPREAD	RB/SIZE S	PACING	COMMENTS
TREES							
QUERCUS PHELLOS WILLOW OAK	WILLOW OAK	3"	16'	6'	ANA STAND	DARD	WELL BRANCHED
GINKGO BILOBA 'MAGYAR'	MAGYAR GINKGO	3"	14'	6'	ANA STANE	DARD	5'CT-WELL BRANCHED
NYSSA SYLVATICA 'NSUHH'	GREEN GABLE BLK GUM	3"	12'	8'	ANA STANE	DARD	CENTRAL LEADER
LAGERSTROEMIA \times 'NATCHEZ'	NATCHEZ C. MYRTLE	(3) 1.5"	12'	יד'	ANA STANE	DARD	MT - FULL HEAD
AMELANCHIER X GRANDIFLORA "A. B."	A.B. SERVICEBERRY	(5) 1.5"	10'	6'	ANA STAND	DARD	5-TRUNK
ILEX 'MARY NELL'	MARY NELL HOLLY		٦'	4'	ANA STANE	DARD	FULL TO GROUND
SHRUBS							
SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM		24"	20"	3 GAL. @ 3'	oc	FULL PLANT
CALLICARPA X 'NCCX2'	PEARL GLAM BEAUTYBE	RRY	3Ø"	24"	3 GAL. @ 4'	00	FULL PLANT
ILEX GLABRA	INKBERRY HOLLY		2Ø"	18"	3 GAL. @ 3'	oc	FULL PLANT
ILEX VOMITORIA 'NANA'	DWARF YAUPON HOLLY		18"	16"	3 GAL. @ 3'	OC	FULL PLANT
RHUS AROMATICA 'GRO-LOW'	GRO-LOW FRAGRANT SUM	1AC	24"	30"	3 GAL. @ 4'	00	FULL PLANT
VIBURNUM X PRAGENSE	PRAGUE VIBURNUM		24"	24"	3 GAL. @ 4'	00	FULL PLANT
BUXUS MICROPHYLLA VAR. JAPONICA 'WINTER GEM'	WINTER GEM BOXWOOD		18"	16"	3 GAL. @ 3'	OC	FULL PLANT
ROSMARINUS OFFICINALIS L.	ROSEMARY		24"	30"	T GAL.		FULL PLANT
ABELIA $ imes$ Grandiflora 'Little Richard'	LITTLE RICHARD ABELIA		18"	16"	3 GAL. @ 31	00	FULL PLANT
MISC.							
TRACHELOSPERMUM ASIATICUM	ASIATIC JASMINE		8"	6"	1 GAL. @ 16	" <i>o</i> c	FULL PLANT
ZOYSIA JAPONICA	ZOYSIA GRASS SEED						TO MATCH DEVELOPMENT

LANDSCAPE CALCULATIONS (SEE SHEET C2.01):

STREET BUFFER CALCULATION:

MAIN ST. LENGTH: 171 LF

REQUIRED TREES (1 PER 40 LF): 171 ÷ 40 = (4.275) 5 TREES REQUIRED PROPOSED: 2 STREET TREES + 2 EVERGREEN TREES = 3 REQUIRED TREES TOTAL ***

YEHICULAR USE AREA (YUA) CALCULATIONS:

REQUIRED CANOPY TREES IN TERMINAL ISLANDS (1 PER ISLAND): 4 * 1 = 4 = 4 TREES REQUIRED PROPOSED: 4 TREES TOTAL

REQUIRED SHRUBS IN PARKING PERIMETER BUFFER (1 PER 3 LF): 417 ÷ 3 = 139 = 139 SHRUBS REQUIRED PROPOSED: 148 SHRUBS TOTAL

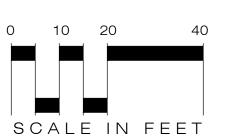
*** THE PLANTING SCHEDULE DOES NOT INCLUDE THE STREET TREES ON MAIN ST WHICH IS PART OF THE U-624I STREETSCAPE PROJECT, SEE STANTEC LANDSCAPE PLAN L-4 FOR STREET TREE SPECIES. A TOTAL OF 5 TREES SHALL BE PROVIDED ALONG MAIN ST. - 2 TREES MIN. FROM THE U-6241 STREETSCAPE PROJECT AND 3 (2 SHADE TREES AND 2 EVERGREEN TREES) FROM THIS PROJECT.

LANDSCAPING WILL BE COMPLIANT WITH LDO SECTION 6.2.4.4. IN THE PARKING LOT ISLANDS



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NORTH



PART 1 - GENERAL

- A. Extent of underground irrigation system is shown on Drawings and in the schedules. Provide all labor, materials and equipment required by or inferred from Drawings
- and Specifications to complete the Work of the Section. 2. Provide additional Work and materials required by local authorities at no extra cost
- 3. Contractor shall provide all permits, applications, licenses and other qualifications
- to complete work at no additional cost to owner. 4. Reference Standards: American Society for Testing and Materials, Annual Book of ASTM Standards, latest edition.
- B. Codes and Standards: Perform Irrigation Work in compliance with applicable requirements of governing authorities having jurisdiction. Notify Landscape Architect in writing of all discrepancies immediately.
- C. Do not make substitutions: If Contractor desires to make substitutions of materials; sufficient descriptive literature and material samples must be furnished to establish the material as an equal substitute. In addition, Contractor must state his reasons for desiring substitute materials. Submit this request and information to L. Architect.
- D. Approval and Selection of Materials and Work: The selection of all materials and execution of all operations required under the Drawings and Specifications is subject to the approval of Owner and Landscape Architect. They have the right to reject any and all materials and any and all Work, which in their opinion does not meet requirements of the Contract Documents at any state of operations. Contractor to remove rejected work and or materials from project site and replace promptly.
- E. "As-Built" Drawings: Any changes in layout and/or arrangements of the proposed irrigation system, or any other differences between proposed system and actual installed conditions are to be recorded by Irrigation Contractor in the form of an "As-Built" Drawing. All drawings are to be clearly and neatly drawn on a Mylar sepia base of original design. With accurate as-built drawn, contractor shall provide electronic PDF copy as part of closeout documents (landscape contractor shall obtain this service thru print house of their choosing). Provide Owner and Landscape Architect with a reproducible Mylar copy of the "As-Built" Drawings and electronic PDF before Work under this Contract will be considered for acceptance. All automatic and manual valves, hose bibs or quick couplers and wire splice shall be shown with actual dimensions to reference points so they may be located easily in the field. Submittal of approved "As-Built" Drawings will preclude any Application for Final Payment by Contractor.
- F. Delivery, Storage and Handling: Deliver material and equipment in such a manner as to not damage parts or decrease the useful life of equipment.
- 1. Store materials away from all detrimental elements. Coordinate with General Contractor to secure a safe staging area.
- 2 Handle, load, unload, stack and transport materials for irrigation system carefully to avoid damage. Handle pipe in accordance with Manufacturer's recommendations.
- H Verify Tap: Test water conditions, as they exist immediately down stream from tap: If they do not meet design demands, notify Landscape Architect immediately of existing
- The irrigation system is designed to operate under the following conditions; a minimum of 60 psi of water pressure at tap and at least 60# gpm available water supply. Tie to existing system and verify.
- J Job Conditions: Insurance on irrigation materials or equipment stored or installed is the responsibility of Irrigation Contractor. Such insurance shall cover fire, theft and vandalism. Should Contractor elect not to provide for such insurance, he will in no way hold Owner responsible for any losses incurred by the aforementioned acts. The Contractor is responsible for all costs incurred in replacing damaged or stolen materials.
- 1. Obtain all required permits and pay all required fees, at no additional cost to Owner. Any penalties imposed due to failure to obtain permits or pay fees are the responsibility of the Contractor.
- 2. Provide and maintain all passageways, guard fences, warning lights and other protection devices required by local authorities.
- 3. Existing site improvements shall be performed in a manner that will avoid possible damage. The Contractor is responsible for any damage of a mechanical nature as well as damage resulting from leaks in irrigation system whether due to negligence
- 4. Keep project site clean and orderly at all times during construction.
- K. Sleeves are to be installed by the Irrigation Contractor Coordination and scheduling for excavation of sleeve ends is the responsibility of the
- Coordinate and schedule all Work with General Contractor.
- Damages resulting from irrigation installation to Work of other trades must be repaired at the expense of Contractor in a timely fashion. Make adjustments to system layout as may be required and requested to provide complete coverage at no additional cost to Owner.
- L. Warranty: All Work for a period of one year, starting on Date of Substantial Completion, against defects in material, equipment, Workmanship and any repair required resulting from leaks or other defects of Workmanship, material or equipment.
- Repair unsatisfactory conditions promptly at no cost to Owner. Owner may make emergency repairs without relieving the Contractor of this
- warranty obligation. Irrigation Contractor to repair settling of backfilled trenches occurring during warranty period, including restoration of damaged plantings, paving or
- improvements resulting from settling of trenches or repair operations. 4. Respond to Owner's request for repair Work within ten days. If not, Owner may proceed with such necessary repairs at Contractor's expense. In addition,
- Contractor shall be held responsible for replacement of any plant material (tree, shrubs, sod or seed) that becomes damaged or dies due to a lack of water during periods in which irrigation system is inoperable.

PART 1 - PRODUCTS:

- A. Specific requirements concerning the various materials and arrangements which safe to be installed are shown on drawings.
- B. Quality and Size: Material specified by name and/or model number in the Specifications, on the site or detailed drawings are used for the purpose of identification of materials and to insure specific use of that material in the construction of the system. No substitutions will be permitted without approval. (See Substitutions).
- 1. Plastic pipe for all main lines is schedule 40 (PVC while laterals 1 ½" size and over is Class 200 PVC Type 1120 or 1220 as manufactured Cabot, John-Mansville (or approved equal) unless otherwise specified herein or on the drawings. All pipe,
- 1" size and less, is Class 160. 2. PVC pipe is to be continuously marked with Manufacturer's identification, type,
- class and size and installed with these markings on the tope of the pipe. 3. All fittings should be Schedule 40 PVC Type 1, of domestic manufacture and identified as to pressure rating or schedule.
- C. Solvent Weld: Solvent weld for PVC pipe over 20' length must be installed with standard 20' length sections. Unnecessary joints or couplings are not acceptable.
- D. Risers: Provide threaded Schedule 80 PVC risers. All risers above grade to be either dark gray or black PVC pipe.
- E. Electric Wiring: All 110 volt AC wiring to controller must consist of three wires: one black, one white and one ground. Electrical service to be provided by General Contractor unless otherwise directed by Owner.
- 1. All splices in controller wiring shall be waterproofed by using Rainbird "Snap-Tite"
- wire connectors. 2. All control wiring shall be 24-volt solid wire U.L. approved for direct burial in
- ground. Minimum wire size: 14 gauge. All control wiring and wiring connections from controller to valves shall be
- Sprinkler Heads: Provide as indicated on the plan. Heads perform to Manufacturer's specifications concerning radius of throw and volume in gallons per minute at given pressure. All sprinkler heads and hose bibs are to be on triple elbow swing joints.

included in this contract.

G. Automatic Controller: Is to be installed in the location (shown on drawings/identified by owner's representative). The controller location will be accessible as shown on drawing for maintenance. Provide for the possibility of making minor timing adjustments to the controller in the field.

- 1. Provide controller specified on drawing; fully automatic capability as well as manual operation of the system
- Irrigation Contractor to coordinate sleeve through wall for irrigation controller (with General Contractor). General Contractor to provide power to controller.
- Coordinate with General Contractor. Provide controller specified on drawing that operates on a minimum of 110 volts AC power input and is capable of operation of 24-volt AC electric remote control valves, with a reset circuit breaker to protect from overload. Contractor is responsible for connection to 100V AC power to controller.
- H Stations: Each station shall have a time setting knob that can be set for variable timing in increments from 6 to 60 minutes, or set to omit the station from irrigation cycle. The controller, Rainbird clock, pedestal mounted. (Refer to plan for station amounts) A master "on-off" switch shall allow the valve power output to be
 - interrupted without affecting the controller. Controller Construction: The controller must be constructed so that all internal parts are accessible through controller door without disturbing cabinet installation.
- I Water Meter: Type approved by local municipality, size shown on drawing.
- J Backflow Preventer: To be installed by General Contractor Reference Civil Plans.
- K Pressure Regulator: Provide Wilkins #600 or equal.
- L Mastervalve: Rainbird # electric remote control valve w/brass body and bonnet. Valve shall be wired to open and close with each circuit valve. Size based on mainline.
- M Valve Boxes: Ametek 12" rectangular valve box with cover or jumbo mechanical box with cover and Ametec 10" round valve box with cover as indicated on drawings. Place a minimum of 6" depth of gravel under each valve box, meter, and pressure regular and backflow preventer box.
- N Sleeves: Class 200 PVC Pipe Type 1120 or 1220: Size as indicated on Detail by Irrigation Contractor
- O Hose Bibs: Hose bibs shall have an all cast brass or bronze body. Hose bibs to be 3/4" inside diameter and shall be installed below grade in Ametek 12" x 18" valve boxes. The cover over hose bib boxes shall be clearly marked with "non-potable water".
- P Control Valves: Provide Rainbird Electric Remote Control Valve (size as indicated on Plan). Valve to conform to Manufacturer's Specifications concerning performance and at
- a given pressure. Q Surge Protection Equipment: Provide General Electric Lightning Arrestor #GL 15 CC B
- 1. Provide secondary surge protection installed on the 24V AC valve control wiring for systems controlling 24V AC solenoid operated valves. 2. The Irrigation Contractor is responsible for determining whether the above
- mentioned surge protection equipment is provided for in controller as a "builtin" unit or if it must be supplied and installed separately.
- R Isolation Valves: Provide all gate valves for isolation purposes allowing full diameter opening when in full open position. 1. Manually operated valves shall be same size as mainline.
- S Automatic Drain Valves: Install at low point for each lateral line "Rainbird 16AP" drain

valve in gravel sump 12" x 12" in size and with a minimum of 18" of cover over sump. Miscellaneous System Components: Provide risers, reducers, couplings, adapters, and fittings as necessary to complete irrigation system.

007 for controllers not equipped with primary surge protection.

PART 2 - EXECUTION

- A. Provide a competent superintendent and necessary assistants on the job while Work is progress. The Superintendent represents Contractor in all functions and directives given to him by Owner are binding as if given to Contractor in person.
- B. During the installation Landscape Architect may make regular site visits and reject any Work and materials that do not meet the Standards called for in Contract Documents. Rejected work must be promptly corrected and no time extension will be allowed for this
- C. Inspection: Inspect project area prior to start of Work to determine that all site conditions are acceptable for irrigation Work to begin. Inform Landscape Architect of unsuitable conditions. Do not proceed with installation of irrigation system until unsatisfactory
- D. Preparation: Flag all existing underground utilities prior to trenching and/or boring operations. Obtain utility locations from Owner an/or General Contractor and Utilize utility locating services when necessary.
- E. Excavation: All excavation is unclassified and includes all materials encountered. Prior to excavation, remove sod, preserve and replace after backfilling is
- After excavation and backfilling is completed, regrade trenched area consistent with surrounding area and re-establish with 100 percent pure of type grass existing. Maintain as necessary for establishment and survival of grass.
- Backfill material is to be free from rock, large stones and other unsuitable substances that could damage the pipe or create unusual settling problems. Back fill in 6" layers and tamp after each layer to prevent excessive settling.
- Backfill trenches containing plastic pipe when pipe is cool to avoid excessive contraction in cold weather. Such backfilling can be done in early morning hours or pipe may be water cooled prior to backfilling procedures.
- Backfill material evenly in lifts not to exceed 6" and compact to 100 percent of
- 6. Contractor is responsible for establishing compaction in trenches equal to or exceeding overall compaction of paving base. Leave top of trench ready for asphalt by others. Minimum depth of cover of all pipe is as follows:
 - ³/₄" 1" pipe minimum depth cover is 12" 1 $\frac{1}{2}$ " – 1 $\frac{1}{2}$ " pipe – minimum depth cover is 18".
- F Sleeving: Location of sleeving shown on plans is schematic. Sleeving Contractor to make adjustments necessary to accommodate existing vegetation, utilities and other existing conditions. Repair of damage to existing utilities, structures or other construction resulting from installation of sleeves is the responsibility of Sleeving Contractor. Verify those installed previous by others. Install PVC sleeves according to detail.
- G Pipe Joints: Follow Manufacturer's Recommendation.
- 1. Solvent weld PVC pipe, assemble according to Manufacturer's Recommendations, using appropriate PVC pipe cleaner/primer and solvent cement.
- PVC to metal connection, Work metal connection first then use Teflon pipe fitting Main line shall be installed according to Manufacturer's Recommendations.
- H Pipe and Fittings Installation: Install according to Manufacturer's Recommendations including snaking-in of PVC pipe to prevent excessive strain when contracting in cold weather. Solvent weld fittings must conform to Schedule 40 or Schedule 80 PVC dimensions and specifications for solvent weld fittings and as manufactured by Lasco,
- Lateral lines and risers shall be as follows:
 - Install according to Manufacturer's Recommendations using standard techniques. 2 Combine lateral lines and main supply lines in common trenches wherever
 - possible with specified minimum depth of coverage over all pipe (see Backfilling). 3 Install riser such that no excessive movement occurs while sprinkler head is in
- 4 Height of risers to be in accordance with planned and existing plant material. Height of all risers is subject to approval of Landscape Architect. Exchange of 4" pip-up to 12" high pop-in field by Landscape Architect is incidental.
- Plug lines immediately upon installation to minimize infiltration of foreign matter. Flush lateral lines and risers prior to installation of sprinkler heads.
- 7 Above ground risers must be dark gray or black in color. J Sprinkler Heads: Low pop-up sprinkler heads shall be installed in such a manner that tip is 1" above finished grade. Where finish grade has not been established, extend a riser a minimum of 12" above existing grade to mark location of head. After finish grade is established, install heads at specified height on trip elbow swing joint; no flex pip will be
- 1 High pop-up heads: High pop-up shrub heads shall have the finished height
- determined by Landscape Architect Backfill around sprinkler head assembly in such a manner that sprinkler head is stabilized so that no lateral motion is exhibited during operation.
- Sprinkler Heads on Risers: Sprinkler heads on risers should be maintained on a schedule 80 PVC riser coupled by a Schedule 40 F.I.P.T. coupling (Lasco

- #420007) to polyethylene riser first out of lateral fitting. Height of all heads in bed
- 4. Install control wire in orderly fashion, locate in main line trench. Bundle wires
- 5. Allow for contraction of wires by providing looped slack at directional changes in
- Snap-tite" wire connectors. All splice locations to be indicated on "as-built
- K. Control Equipment: Install automatic valves and controller according to Manufacturer's Recommendations. Appropriate locations are shown on the drawings.
- L. Valve Boxes: All valves are to be housed in valve boxes. Install according to that will not cause them to interfere with maintenance machinery (e.g., mowers) and such that soil and mulch do not wash into the box. Locate all valve boxes within plant bed areas wherever possible.
- M. Install surge protection equipment on primary (110 VAC) power lines. Connect each surge protect unit to at least on 5/8" diameter by 9' long copper clad grounding electrode driven into the soil to its full depth. Place electrodes no closer than 2' from controller cabinet or any control or power wire. Be consistent in locating ground rods throughout
- installation with respect to controller position and not locations on "As-Built" Drawings. 1. Ground wire between surge protection device and grounding electrode to be single to control unit. Route ground wire away from power and control wires
- 2. When it is necessary to pass through controller cabinet wall use two #L-70 5/8" ground rod clamp (single piece and bolt) to make connection between ground rod a minimum of 10". Cover the top of rod and clamp with a Toro #850-00 cover with lid at grade level.
- 3. Balancing and Adjusting: Balance and adjust the various components of system so that overall operation of the system is most efficient. This includes synchronization of controllers, adjustment to pressure regulators, part circle sprinkler heads and individual station adjustments on controllers. The Contractor has the right to call in the Designer or Owner's Representative to aid in balancing
- N. Operational Testing: Upon completion of irrigation system and after head installation, test entire system for proper operation. Flush all air from system and check components for proper operation.
- O. "As-Built" Drawings: "As-Built" Drawings are to include locations of all wire splices, valves (automatic and manual) with triangulated measurements to each location as well a any
- P. Owner Orientation: Upon completion of Work and final acceptance by Owner and Landscape Architect, Contractor is responsible for orientation of maintenance personnel in the operation, maintenance and repair of system. Furnish copies of all available parts lists, trouble-shooting lists and specification sheets to Owner prior to final payment.
- 1. Set initial watering schedules and programming on automatic controllers at the direction of Landscape Architect. Changes in schedules and programming and instructions on how to make such changes are under the responsibility of the
- Q. Winterizing the System: If Owner requires, irrigation piping must be winterized by first blowing system clear of water using compressed air (80 psi minimum) admitted into piping at a quick coupling valve or hose bib located at a higher elevation on the system piping. Activate individual zones; higher zones first, then proceed successively through the system towards lower elevations. Proceed through all zones twice. The air compressor used to winterize system must have an engine separate from compressor
- of Work, clear grounds of debris, superfluous materials and all equipment. Remove from site to the satisfaction of Landscape Architect and Owner.
- S. Protection: Protect Irrigation Work and materials from damage due to irrigation until Date of Substantial Completion. Cover all openings into system as it is being installed to prevent obstructions in pipe and breakage, misuse or disfigurement of
 - 1. Contractor is responsible for theft of equipment and material at job site before. during and after installation, until Date of Substantial Completion of the Work in
- T. Inspection and Acceptance: Upon completion of Work, notify Landscape Architect and Owner at least three days prior to requested Date of Inspection for Substantial Completion. Prior to contacting Landscape Architect for the purpose of demonstrating all or any part of the system, thoroughly test the system for proper operation and make adjustments and replace any defective parts prior to inspection for Substantial Completion. Where inspected irrigation Work does not comply with requirements, replace rejected Work promptly, within two weeks of inspection. In unusual circumstances Owner may grant a longer time period. If such replacements are not completed within time specified, Contractor may be considered to be in default of Contract and Owner may use Contract Retainage to hire other Contractors to finish the

PART 4- ACCEPTANCE AND GUARANTEE

- A. Substantial Completion: Submit written requests for inspection for Substantial Completion to Landscape Architect at least three calendar days prior to anticipated Date of Inspection and Testing. Substantial Completion cannot be granted, and at the same
- until there has first been a walk-through for head coverage. At this time the Landscape Architect or Owner's Representative will prepare a "punch list" that consists of items to be addressed and corrected by Contractor immediately. Depending on the extent of the Work on the "punch list", the Landscape Architect will determine whether Substantial Completion is to be granted at that time or at a later date, pending the completion of the
- 1. Submit record drawings and maintenance manuals to Landscape Architect with
- Review "punch list" Work jointly with Owner and Landscape Architect for
- Completion and issue AIA Certificate of Substantial Completion if all items on to itemize any deficiencies still existing and will be attached to AIA Certificate. Contractor shall complete all "punch list" items if possible within 30 days while
- B. Date of Substantial Completion: Date of Substantial Completion will constitute beginning Date of One-Year Guarantee. This Date also constitutes the beginning of the warranty responsibilities and acceptance by Owner and Landscape Architect.
- 1. Guarantee all Work, products, equipment and materials for one year, beginning at Date of Substantial Completion as per Written letter of notification.
- shall be done promp0tly and at no additional cost to Owner. Repair damage to grade, plants and other Work or property as necessary. If replacement are not acceptable during or at end of Guarantee Period Owner
- Guarantee applies to all unacceptable conditions or losses with exception of those due to acts of nature, vandalism or Owner neglect, as determined by Landscape Architect. Acts of Nature include, but nay not be limited to, high winds or hurricane or tornado force, sleet, hail, freezing rain and extreme cold (as determined by Landscape Architect). Contractor agrees to replace losses due to Acts of Nature
- C. Final Inspection and Acceptance: One year after the Date of Substantial Completion of Work in total, the Landscape Architect and Owner will inspect Work for Final Acceptance. Upon satisfactory completion of repairs and/or replacements Landscape Architect certifies, in writing, the Final Acceptance of Work.
- guaranteed Work for Final Acceptance. Submit written request for inspection for Final Acceptance to Landscape Architect

End of Section

- areas to be determined in the field by Landscape Architect.
- together and tape at 10' intervals. Position wires under main line.
- 6. Keep wire splices to a minimum. All splices shall be waterproofed by using "Rainbird
- 7. Pass Wires under existing or future paving, construction, etc. through PVC sleeves provided by Irrigation Contractor.
- Manufacturer's Recommendations and according to details. Position boxes at a height
- - copper grounding lugs and brass bolt as noted in detailed drawings. Use #WE
 - and adjustment of system.
- deviations in location of piping and heads as represented by Contract Documents.
- Landscape Architect.
- tanks to prevent high temperature air from being injected directly into PVC piping. R. Clean Up: During Irrigation Work, keep project site clean and orderly. Upon completion
- operations, operations by other contractors, trades and trespassers. Maintain protection

- time no further applications for payment shall be approved for more than 85% of contract
- written request for inspection.
- Substantial Completion of total (contract) Work. Upon satisfactory completion of repairs and replacements and completion of "As -Built" drawings, Landscape Architect and Owner will verify system for Substantial "punch list" have been completed. If necessary another "punch list" will be written
- continuing maintenance.
- Make good any damage, loss, destruction or failure. Repairs and replacements
- may elect either subsequent replacement or credit. Replacement products shall have a similar one-year guarantee from time of replacement.
- at fifteen percent (15%) less than original contract price for the damaged Work.
- 1. At the end of Guarantee Period and upon request for inspection, jointly review all at least two weeks prior to anticipated Date of Inspection; include list of Work
- Substantially Complete and list of Work replaced during Guarantee Period. Upon completion by Contractor of all required replacements, Owner and Landscape Architect will confirm the Date of Final Acceptance of Work.

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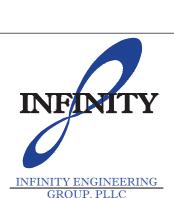


T WALLBRC CAROLINA

UBLIX AT NORTH

LOT 3 -

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Suite 230 Tampa, FL 33602 [p]: 813.434.4770 Ifl: 813,445,4211 www.iegroup.net



ISSUE BY DATE DESCRIPTION 08/16/24 | PERMIT SET 01/03/24 TRC ROUND 2

PROJECT INFORMATION BLOCK

230634

JCO

08/16/2024

DRAWN BY: CHECKED BY:

SHEET TITLE

JOB#

DATE:

IRRIGATION **SPECIFICATIONS**

SHEET NUMBER

LAND PLANNERS

2115 1ST AVENUE NORTH / BIRMINGHAM, AL 35203

PH: (205) 324-4447 • FAX: (205) 324-8068 WEB: JOHNSON-CO.NET

PART 1 – GENERAL

- A. Extent of the planting is shown on the drawings and in the schedules.
 - (1) Provide all labor, materials and equipment required by or inferred from the Drawings and Specifications to complete the work of this section.
 - (2) Providing, placing, grading topsoil for landscape grading as indicated in the
 - (3) Providing and installing trees, shrubs, seeding and solid sod for landscape planting, as per details
 - (4) To successfully dig existing plants and store them on or off-site during construction for replanting on-site per plans where they will reestablish and
- Specified Maintenance Period, and One-Year Guarantee Period.
- Verify plant count from plan, and provide and install all plant material on plan.
- All plants shall conform to or surpass minimum quality standards as defined by the American Association of Nurserymen; current edition of American Standards for Nursery Stock published by American Association of Nurseryman, Inc. and in addition shall conform to sizes and descriptions in the plant list. All work to be performed by a firm specializing in Landscaping, not a subcontractor.
- Substitution from the specified plant list will be accepted only when satisfactory evidence in writing is submitted to the Landscape Architect, prior to submitting bid - tree list, showing that the plant material is not available. This list shall be submitted prior to submitting bid.
 - (1) Requests for approval of substitute plant material shall include common and botanical names and the size of substitute material.
 - (2) Only those substitutions of at least equivalent size and having essential characteristics similar to the originally specified material will be approved. The Landscape Architect will issue acceptance or rejection of substitute plant material in writing.
- Approval and selection of materials and work: The selection of all materials and the execution of all operations required under the Drawings and Specifications is subject to the approval of the owner and Landscape Architect. They have the right to reject any and all materials and any and all Work, which in their opinion does not meet the requirements of the Contract Documents at any stage of the operations. Remove rejected Work and or materials from the Project Site and replace promptly at no additional cost to the owner.
- G. Workmanship: Install all plant materials neatly.
 - (1) Make minor adjustments to layout as may be required and requested by Landscape Architect at no additional cost to the owner.
 - (2) Coordinate delivery of all plant material with time of installation to prevent any plant material from being stockpiled on site longer than 24 hours.
 - (3) Deliver materials in such manner as to not damage or decrease the health
 - and vigor of the plant materials. (4) Store materials away from detrimental elements. Coordinate with General
 - Contractor to secure a safe staging area.
 - (5) Handle, load, unload, and transport materials carefully to avoid damage. (6) Maintain and protect plant materials as necessary to insure health and
 - (7) Guarantee plant materials and lawn areas for one year from the date of substantial completion. Contractor shall replace plants that fail to grow properly with plants as originally specified at the earliest practical date
 - (8) Replacement materials will be guaranteed for one year from the date of replacement.

following plant failure, without additional charges to the owner.

- (9) The Contractor shall not be responsible for replacing plants that are damaged by abuse or improper maintenance by Owner as reported by Contractor outlined below or by acts of nature occurring after acceptance
- Acts of nature may include, but may not be limited to high winds of hurricane or tornado force, sleet, hail, freezing rain and extreme cold (as determined by the Landscape Architect). Contractor agrees to replace losses due to Acts of Nature
- Contractor's Periodic Inspection: During guarantee period, Contractor shall make periodic inspections of the project to satisfy himself that maintenance by the
 - (1) Any methods or products that he deems not normal or detrimental to good
- plant growth shall be reported to the Owner in writing. (2) Failure to inspect and report shall be interpreted as approval and the
- Contractor shall be held responsible for any and all necessary replacements
- Soil Testing: Contractor shall have soil tested by a suitable laboratory chosen by the Contractor and subject to written approval of the Landscape Architect.
 - (1) Soil test shall be completed in all planting areas to determine lime and fertilizer requirements. Submit test results to Landscape Architect for approval. Contractor shall adjust pH and fertility based upon these results. No addition to or placement of soil is to be done prior to initial soil test report approval.

II. PART 2 - PRODUCTS

- Topsoil: All topsoil shall be supplied from offsite stockpile and spread by the Landscape Contractor. The Landscape Contractor shall be responsible for fine grading. Topsoil shall be fertile, friable, sandy loam and a natural surface soil obtained from areas reviewed by Landscape Architect and possessing characteristics of representative soils in the project vicinity that produce heavy growths of crops, grass, or other vegetation.
- Topsoil shall be free of subsoil, brush, organic litter, or objectionable weeds, clay, clots, stumps, stones, roots or other material harmful to plant growth or hindrance to planting or maintenance operations. Should regenerative materials be present in the soil, Contractor shall eradicate and remove such growth, both surface and root, which may appear in the imported materials within 1 year following acceptance of the Work
- Topsoil shall not be handled in a frozen muddy condition. The acidity range for topsoil in planting beds shall be between 5.0 and 7.0 inclusive. The acidity range for topsoil to be placed in areas to receive sod shall be 6.0 - 7.0. The mechanical analysis of the soil shall be as follows:

Sieve Size Percent Passing 99 - 100 percent 1" mesh ¼" mesh 97 – 99 percent No. 100 mesh 40 – 60 percent

Topsoil, regardless of source, shall meet all requirements of the paragraph above. Stockpile material that does not meet the requirements may, at the option of the Contractor, be improved by screening and the addition of organic matter and chemical admixtures.

20 - 40 percent

- Planting Soil Mixture: Provide soil mix amended as per laboratory recommendations. Basic planting soil mix consists of:
- (1) 50% topsoil (as described above)

No. 200 mesh

- (2) 50% prepared additives (by volume as follows)
- (3) 3 parts humus (forest peat or Nature's Helper)
- (4) 1 part sterilized cow manure, commercial fertilizer and lime as
- The components shall be thoroughly mixed to uniform consistency by hand or machine methods prior to placement in and around plantings. Trees: All large deciduous shade trees and ornamental trees are to be field

grown from rooted cuttings true to variety and not grafted material. No grafted

material will be accepted for the initial installation or as guarantee replacement

Alternate Growers - Will be considered by the Landscape Architect only if submitted with photographs of specified material within 10 days from date contract is awarded to General Contractor. The Landscape Architect will select and tag 100% of plant materials from acceptable alternate growers. The contractor will be responsible for all expenses related to tagging trips to alternate growers including usual fees charged by the Landscape Architect. The Contractor shall arrange for and provide transportation for the Landscape Architect. Contractor shall provide the Landscape Architect a minimum of three weeks advance notice. Contractor shall limit tagging trips to no more than two at

- a maximum of two days each. All tagging trips will be completed within 45 days from date contract is awarded to General Contractor.
- Contractor will submit confirmed orders from acceptable alternate growers within ten days of tagging by the Landscape Architect. Contractor is responsible for
- payment of deposits required by acceptable alternate growers Fertilizer: Fertilizer for all trees, plants and ground covers shall be Sta-Green
- Nursery Special delivered to the site in unopened containers. Fertilize all areas according to the manufacturer's recommended rates in

accordance with the monthly maintenance guideline herein.

- Cultivate and waterbeds or pits thoroughly after application. Adjust fertilizer in accordance with interim soil test reports.
- Fertilizer for sod: Fertilizer for sod shall be Sta-Green and sod fertilizer containing the following percentages by weight:
 - 18% nitrogen
 - 24% phosphorous
- 10% potash Nursery Special or approved equal.
- Fertilizer shall be uniform in composition, dry and free flowing, and shall be delivered to the site in the original, unopened container, bearing the Manufacturer's guaranteed analysis. Fertilizer shall not have been exposed to weather prior to delivery to the site. After delivery, until used, it shall be completely protected at all times. It shall not be stored in direct contact with the
- Plants: All plants shall conform to or surpass minimum quality standards as defined by the American Association of Nurserymen (AAN), current edition of American Standard for Nursery Stock published by the ANN, Inc. and in addition,
- shall conform to sizes and descriptions in the plant list. Certificates of Inspection for Plant Material: All necessary Inspection certificates shall be supplied, if requested, to the Landscape Architect's representative for each shipment of plant material, as required by law. Certificates showing source of origin shall be filed with Landscape Architect prior to acceptance of the
- Inspection: All plant materials shall be subject to inspection and approval. The Landscape Architect reserves the right to reject any and all plants that fail to meet this specification at any point during the installation of the job. The Contractor at no additional cost shall promptly remove all rejected materials from
- the site to the owner Quality and size: All plant materials furnished shall be well branched, proportioned width to height, or normal habit, sound, healthy and vigorous in growth. The minimum acceptable sizes of plants shall be measured before pruning with branches in normal position and shall conform to measurements specified. Plants used where symmetry is required shall be matched as closely as possible. It is the responsibility of the Landscape Contractor to determine from the planting plan where matching plants should be used. Ask for clarification by Landscape Architect when necessary and do so before bids are submitted. Plants shall meet all requirements as listed in the plant list.
- Source of Plants: Plants shall be field nursery, container grown or collected material subject to the requirements of the Specifications.
- Field Tagged Plants: All deciduous and evergreen trees are to be sourced by the contractor at any of the approved nurseries, of the provided list, or equal as approved by the Landscape Architect. The owner will pay the Landscape Architect for tree tagging trips. The contractor should anticipate accompanying the Landscape Architect on the tagging trips but is not required to do so.
- W. Insect, Pests and Plant Diseases: All plants shall be of healthy stock, free from disease, insects, eggs, larvae and parasites of an objectionable or damaging
- Substitutions: Substitutions from the specified list will be accepted only when satisfactory evidence in writing is submitted to the Landscape Architect, showing that the plant specified is not available. Requests for approval of substitute material shall include common and botanical names and size of plant material. Only those substitutions or at least equivalent size and having the essential characteristics similar to the originally specified material will be approved. The Landscape Architect will issue acceptance or rejection of substitute plant materials in writing. Substitutions may be made only prior to bidding.
- Balled and burlapped plant material are to be wrapped with organic burlap wrapping only. Synthetic material will not be accepted. Remove all nurseryloading straps once plant material is placed in the pit. Guying of trees: Stakes for supporting trees shall be sound timber, straight,
- sized as shown in planting details and of sufficient length to adequately support the plant. All visible surfaces shall be painted flat black
- AA. Deadmen or stakes for anchoring guy wires in the ground shall be of size, material and strength adequate to hold guy taut and maintain tree firmly in an
- BB. Wire shall be # 12 gauge galvanized wire in double twisted strand to adjust CC. Hose for encasing guy wires shall be new or suitable used 3/4" diameter rubber
- or plastic garden hose, black in color. DD. Wrapping material for trees with 2" caliper trunks or larger shall be standard crinkled paper cemented together with bituminous material in strips 8 to 10"wide. EE. Twine for tying wrapping material shall be lightly tarred, medium or sisal yarn; no
- synthetic cord shall be used Mulch: Single shredded 2-3" long pinebark/hardwood mulch shall be clean, fresh, free of noxious weeds, seed, fire ants, Japanese beetles and/or fringed beetles. No nuggets will be accepted.
- GG. Sod: Sod shall be 100% specified grass, free of weeds, freshly dug. HH. Lime: Ground dolomitic limestone not less than 85 percent total carbonates and magnesium, ground so that 50 percent passes 100 mesh sieve and 90 percent
- Inoculants: Pure culture of nitrogen-fixing bacteria prepared specifically for the legume species. A mixing medium as recommended by the manufacturer shall be used to bond the inoculant to the seed
- All necessary hand tools and materials typically used in planting operations. Plastic labels or tags on which identification can be made.
- MM. 'Nature's Helper' Soil conditioner Follar insecticide as needed to control damage
- Anti-desiccant spray for minimizing transpiration during storage
- Bailing twine QQ. Burlap – 36" wide, rolled.

PART 3 - EXECUTION

Execution of Digging and Holding: All transplanting work, and storage of plants is to be carefully coordinated with the General Contractor. Prior to digging, thoroughly water all plant material to be dug to moisten the root area. Root prune all plants using a sharpened shovel a minimum of one week in advance of the anticipated day when digging and storage will occur. Using a shovel, root prune by encircling the plant to be dug by pushing the shovel down at a 75-85° angle not less than 10" deep. Do not attempt to lift the plant or remove it from its current location at this time. Prune the circle around the plant per the following root size schedule. Deep water each plant and follar mist in the first day to help the plant transition. Monitor the water and mist during the first week and until the digging occurs. Not less than one week after the root pruning carefully dig each plant by using the shovel to raise the plant slowly and onto a sheet of burlap cloth twice the size of the root ball. The plant should be then carried to the holding area supported equally on all four corners. When the plant is laid down in the holding area, the burlap is to be folded over the root ball/mass and secured with bailing twine. Then cover the entire root ball with a soil conditioner. Clum's 'Nature's Helper" or approved equal, and thoroughly water. Do not allow the rootball/mass dry out during the transplanting process. All dug plants are to be maintained and watered continuously where held until such time that they can be replanted. Maintenance should include pruning to thin, removal of dead branches, wilt-proof sprayings, insect treatments, etc., in addition to regular watering.

Root Ball Size: Plant Height / Size 10' – 12'

8' – 10'

4' – 8'

12" – 4'

Minimum root ball diameter 24" – 30" 20" – 22" 18" - 20"Spread of foliage

- Layout of major plants: Before commencing planting operations, location of major plants and outlines of areas to be planted shall be marked out on the ground, by the Contractor for approval by the Landscape Architect. Contact the Landscape Architect a minimum of 24 hours in advance of the anticipated review of the layout.
- Time and planting: Planting operations shall be during favorable weather in which conditions are neither extremely cold nor hot, nor to a point that the risk of loss is too great. The Contractor shall inform the Landscape Architect of high risks due to weather.

- Preparation of planting beds: Landscape Contractor will provide and spread 4" topsoil and provide finish grades in all planting beds. The Landscape contractor will fine grade and provide minimum 3% positive drainage in all beds. This is to include debris removal and any grading required bringing the finished grade to the proper level for planting trees, shrubs and ground covers. Landscape Contractor shall grade for proper drainage. Contractor shall anticipate and allow
- Circular plant pits with vertical sides shall be dug by hand or machine methods for planting and transplanting of trees and shrubs. Sides of pits should be scarified to allow for water percolation
- Shrub pit diameter shall be a minimum of one foot greater than the spread of the
- All transplanted material is to be replanted the same day it is dug. H. Test excavated plant pits to determine if sufficient drainage is present for proper
 - Fill the area between the pits, if the individual pits are arranged in a group, to the required grade with single shredded pinebark/hardwood mulch to a depth of 3". Plant beds shall be neatly edged and kept free of weeds until the work is
- J. Excavation for planting ground covers: Ground cover beds shall be scarified by hand or machine method to a minimum depth of 8". 4" of pine bark additive and 20 lbs. / 1000 sq. ft. of Sta-Green Nursery Special fertilizer shall be uniformly incorporated into the soil to the full 6" of minimum depth.
- K. Drainage test for trees: Tree pits shall be filled with water. If percolation is less than 100% within a period of twelve hours, drill a 12" auger to a depth of 4' below the bottom of the pit. Retest the pit. In case drainage is still unsatisfactory, notify Landscape Architect, in writing of the condition before planting the trees in the questionable areas. Contractor is fully responsible for warranty of the trees. Drainage Test for Plants and Ground covers: Plants and ground cover beds
- (1) Dispose of topsoil removed from landscape excavations. Do not mix with the planting soil. Do not use as back fill or to construct saucers around pits.
- (2) Balled and container plants shall be placed firmly upon scarified sub-grade and back filled with planting soil mixture. Remove all wire, cords, and burlap from top of root ball. Hand tamp carefully around and under ball to fill all voids. Water during back filling. Form saucer from planting soil mixture in order to retain water.
- (3) Gently loosen outer roots of container grown plants to encourage outward
- (4) Fertilizer shall be thoroughly mixed and soaked into the top two inches of soil for all plant pits.
- M. Setting plants: Set plants uniformly 2-4" higher than surrounding grade or as necessary to provide adequate positive drainage away from roots. Slope soil gradually from saucer.
- (1) Cut rope, wire or string from top of ball after plant has been set; turn down and bury burlap
- Tree transportation: The Contractor shall be responsible not only for the safe transportation of the plants to the site but also their condition upon arrival. Trees with abrasions of the bark, sunscalds, fresh cuts, or breaks of limbs that have not completely callused will be rejected. The Contractor at no additional cost will replace trees that have been damaged during transit. All plant unit costs will
- reflect all above listed specifications. Tree tags: All plants accepted at the nursery by the Landscape Architect shall be tagged with serialized self-locking tags. Trees delivered to the site without these tags or with broken tags will be rejected. The tags shall remain on the trees until the Landscape Architect for their removal has given the Contractor instructions.
- (1) Tree tags shall be removed immediately following the final Punch-list. The Contractor will replace any trees on which tags remain and become in
- Stockpile of trees: All plant material stored on site will be untied and/or cut loose for proper storing and inspections periodically. Pruning deciduous trees: Deciduous trees and shrubs shall be pruned only to
- Do not top or remove terminal growing point or leader of any plant.
- (2) Cuts over 3/4" in diameter shall be painted with tree dressing paint. No paint containing lead shall be permitted.
- Guy trees 2" caliper and over: Space three guys equally about each tree attached at approximately two-fifths up the trunk. Guys should be at a 45-degree angle from the ground plane and anchored in the ground with stakes. Guy to trunks with wire loops and black rubber hose drawn snug in all directions. These guys shall be equally taut.
- (1) Wrap trunks of deciduous trees larger than 2" caliper spirally with standard paper or fiber wrapping material from the base of the trunk to the second branch and the wrapping secured in place. Wrap the trunk with the plain side of wrapping to the outside with no writing visible. Tie off wrapping with sisal yarn at 24" intervals.
- (2) Stake trees less than 2" caliper with two wood stakes driven two feet into the ground with the portion extending above the ground approximately ½ of the trunk height. Stake 12" from trunk, fastened at approximately two-fifths of trunk height with wire run through rubber hose.
- Mulch all planting beds and other areas designated to be mulched, with 3" "settled" depth of specified mulch type. Individual plants are to be mulched as detailed. Mulch is to be measured after settlement and maintained as specified.
- Preparation of lawn areas: Fine grade all lawn areas to finish grade. All areas shall have smooth and continual grade between the existing and fixed controls such as walks and curbs. Roll, scarify, rake and level as necessary to obtain true, even and firm lawn surfaces. All finished grades shall meet approval of the Landscape Architect before sodding or seeding operations begin.
- Areas to receive sod: Landscape Contractor will provide 4" topsoil & grade to finish grade all areas to receive sod. The Landscape Contractor will be responsible for fine grading. This is to include debris removal and any grading required bringing the finished topsoil grade to the proper level for applying sod.
- (1) On this grade spread specified fertilizer as per manufacturer's recommendations and lime at a rate of 50 lbs. / 1000 sq. ft. evenly over all areas to receive grass. A soil test shall be made prior to the beginning of fertilizing and liming and the quantities of the lime and fertilizer shall be adjusted, if necessary, to achieve a pH of 6.0 to 7.0.
- (2) Scarify prepared grade to depth of 6" thoroughly incorporating fertilizer and lime into the top 6" of existing soil in all areas to be grassed. Caution shall be exercised to avoid damage to underground utilities. All building debris, vegetation, sticks and stones over 3/4" in any dimension shall be removed and the surface leveled and smoothed.
- Sodding operations: Delivery of sod shall be scheduled so as to allow laying of sod without delay. No sod shall remain stacked longer than 24 hours. In the event that sod cannot be laid immediately upon delivery, Contractor shall lay sod on a designated site, to be approved by the Landscape Architect. No sod shall overlap and it shall be lightly watered as necessary to keep moist.

(1) Lay sod when bed is not excessively wet or frozen, but when soil is moist to

(2) Lay sod so that no voids occur. Sod shall be tamped and rolled by hand methods. The completed surface shall be true to finish grade and even and firm at all points. Stagger the sod seams / joints.

the depth of 2" minimum.

- (3) Do not move heavy objects over areas to be sodded after the soil has been W. Removal of existing grass: The Landscape Contractor is to remove existing grass and weeds from all areas for planting and resodding as designated on the
- not to disturb existing tree roots where present in those areas. (1) Aerate with a tined tiller to break up the upper 3" lightly not to damage tree pots. Pick up solids for discarding and cut cleanly any roots damaged.

plans. The existing stands are to be removed to a maximum depth of 1" so as

- (2) Spread a light layer of topsoil not more than 1" in depth over the aerated area and fine grade to meet acceptance by the Landscape Architect. Apply fertilizer and lime to these areas as specified previously under "Areas to receive sod" or "Preparation of planting beds" whichever the case may be.
- IV. PART 4 CLEANUP & PROTECTION
 - Keep project site clean and orderly during planting operations. Clear grounds of debris, superfluous materials and all equipment upon completion of Work. Remove from site to the satisfaction of the Landscape

- Protect all work and materials from damage due to landscape operations and operations by other contractors, trades and trespassers. Maintain protection until Date of Substantial Completion.
- Contractor is responsible for theft of equipment and material at the job site before, during and after installation, until Date of Substantial Completion of Work

V. PART 5 - LANDSCAPE MAINTENANCE GUIDELINES

- Begin maintenance at commencement of Work of this section and continue until Substantial Completion, as part of Work of this section.
- Continue maintenance for a Maintenance Period of thirty calendar days after date of Substantial Completion. Provide labor, materials, equipment and means for proper maintenance of all
- materials and workmanship. Supervision: submit a written report and conduct joint inspection with Landscape Architect maintenance program and procedures, at inspection for Substantial
- Maintenance of trees, shrubs, sod and seed: Maintain all plants in a growing, well formed, healthy condition by watering, fertilizing, pruning, weeding, spraying, wrapping, straightening, replacement or by other necessary maintenance
- Watering: Monitor owner's automatic watering system and schedule for proper
- Advise Landscape Architect immediately in writing of recommended alterations due to weather or other conditions.
- Water landscaped areas not covered by automatic watering system as frequently as necessary to maintain proper moisture level, using the following schedule as a
- Twice a month during March, April, May
- Once a week during June, July, August, September No watering from October through February, except in drought conditions
- Fertilizina Mid March application of 23-3-3 (slow release nitrogen)
- April 1 application of iron chalet
- Mid April application of 12-6-6
- August 1 application of 15-0-15 Mowing: Mow grass to a height of 2-2 1/2" when it reaches a height of 3", or as directed by Landscape Architect. Seeded and sodded lawns shall have at least
- one mowing before receiving Substantial Completion. Resodding: Rework and resod areas that fail to show a uniform stand of grass. Perform work with the same kind of sod applied and repeated until all areas are covered with a uniform stand of grass.
- Reseeding: Rework and reseed areas, which fail to show a uniform stand of grass. Perform work with the same kind of seed applied and repeated until all areas are covered with a uniform stand of grass.
- Site annual planting: Replace annual plantings according to schedule in Drawings. Blooming plants shall be in bloom at the time of planting and shall be replaced as necessary throughout specified Maintenance Period to maintain
- Pruning: Remove dead wood as it becomes evident. Remove living portions of plants only at the direction of Landscape Architect. Wilt-proofing: Apply approved anti-desiccant to all evergreen trees during last two weeks of October (except pines).
- Spraying: For each spraying combine approved insecticide and fungicide to provide maximum protection for all plant materials. Three sprayings annually; in March, May and August. Weeding: Two applications (Spring and Fall) of chemical pre-emergent spray, approved. Two applications (during growing season) of chemical contact spray
- (Round-up, by Monsanto, or approved equal). Two days per month (every two weeks) manual weeding (by hand) during the period from March 1 through September 30: remove all visible weeds. Mulching: Keep planting areas neat and uniformly mulched to specified depth on a continuous basis. In addition to replacing and re-spreading mulch as necessitated during the maintenance period completely replenish mulch in all
- planting areas one time (during the last month of the one-year guarantee period or as directed by the Landscape Architect. Straightening: Maintain plants in their stable upright position and at the proper grade by straightening and tightening staking and guying apparatus and as
- Clean-up: Keep all planting areas neat, weeded and uniformly mulched on a continuous basis. Clean up adjacent walks and pavement where lettered as a result of maintenance operations, on a continuous basis. (1) The 30-day maintenance period following Substantial Completion will

be considered a lump sum item to be addressed as an item included in the

approved by the Archite

- VI. PART 6 ACCEPTANCE & GUARANTEE Substantial Completion: Submit written requests for inspection for Substantial Completion to the Landscape Architect at least three calendar days prior to
- anticipated date of inspection and testing. Substantial Completion cannot be granted and at the same time no further applications for payment shall be for more than 85% or less if the owner requests of the Contract until there has been a walk-through for planting at which time a "punch-list" will be written consisting of items to be addressed and corrected by the Contractor immediately. Depending on the extent of work on the "punchlist", the Landscape Architect will determine the job to be "Substantially
- Complete" or pending the completion of the "Punch-list".
- Submit Record Drawings and Maintenance manuals to the Landscape Architect with written request for inspection Review the "punch-list" work jointly with the Owner and Landscape Architect for
- Substantial Completion of the total (contract) work. (See "General Conditions" Upon completion of repairs and replacements found necessary at the time of review, the Owner and Landscape Architect will confirm the date of Substantial Completion and issue the written notice if all items on the punch-list have been completed. If necessary, another punch list will be written to itemize any deficiencies still existing and will be attached to the written notice. The contractor shall complete all "punch-list" items if possible within 30 days while continuing
- The date of Substantial Completion will constitute the beginning date of the One-Year Guarantee. This date also constitutes the beginning of warranty responsibilities and acceptance by the Owner and Landscape Architect
- Guarantee all work, products, equipment and materials for one year, beginning at the Date of Substantial Completion as per written notice. Make good any damage, loss destruction or failure. Repairs and replacements shall be done promptly and at no additional cost to the Owner.
- Repair damage to grade, plants and other work as necessary. If the replacement is not acceptable during or at the end of the Guarantee Period. the Owner may elect either subsequent replacement or credit. Replacement products shall have a similar one-year guarantee from the time of replacement.

END OF SECTION



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NC Firm Certificate No. P-1836

IEG Job No. 15-309.00

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ISSUE BY DATE DESCRIPTION 08/16/24 | PERMIT SET 01/03/24 TRC ROUND 2

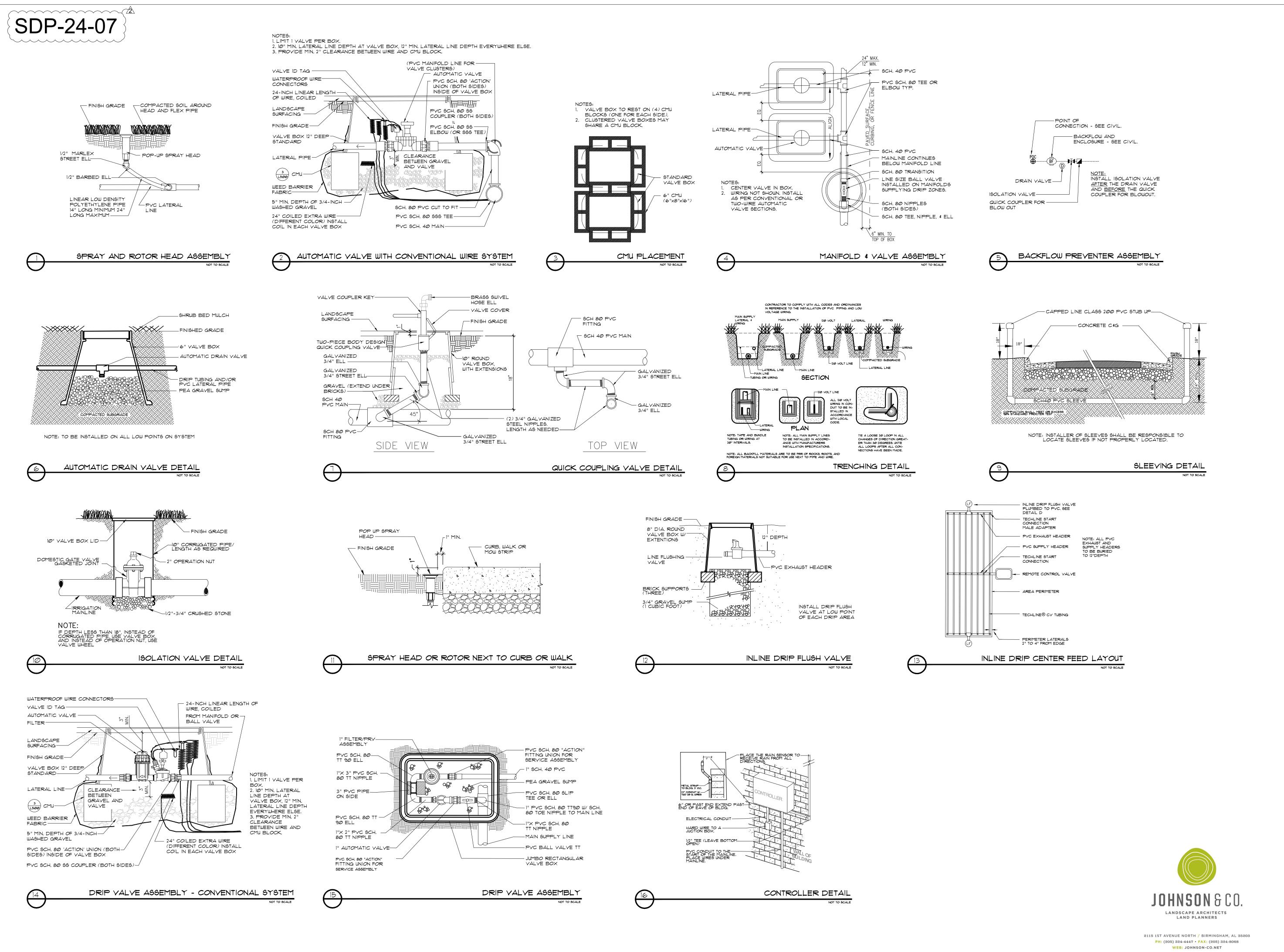
PROJECT INFORMATION BLOCK JOB# 230634 DATE: 08/16/2024 DRAWN BY: JCO

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SHEET NUMBER

SHEET TITLE

LANDSCAPE **SPECIFICATIONS**





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FIFTH THIRD

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INFINITY INFINITY ENGINEERING GROUP, PLLC

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NC Firm Certificate No. P-1836 IEG Job No. 15-309.00



DESCRIPTION

	08/16/24	PERMIT SET
<u>^</u> 2	01/03/24	TRC ROUND 2
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JOB #	•	230634
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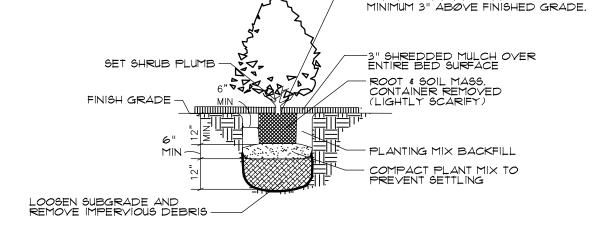
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ISSUE BY DATE

IRRIGATION DETAILS

SHEET NUMBER

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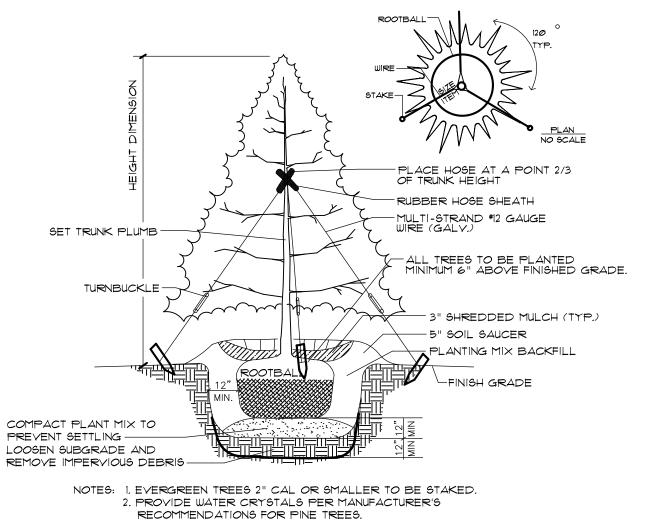
DETAIL TYPICAL CONTAINERIZED SHRUB PLANTING

NOTE:
ALL TREES AND SHRUBS NOT COVERED
BY IRRIGATION TO BE AMMENDED WITH
TERRA SORB WATER RETAINING AGENT
AS PER MANUFACTUERS RECOMENDATIONS.

SHRUB TO BE PLANTED

3 DETAIL EVERGREEN TREE PLANTING

NOT TO SCALE





NOTE: WHERE APPLICABLE MULCH RINGS TO BE TIED INTO LANDSCAPE BEDS ELIMINATING GRASS STRIPS

- FIFTH THIRD

BANK SIGN

/-- 3" SHREDDED MULCH (TYP.)

- REF. DETAIL 7 OF L2.2 FOR TRENCH EDGE DETAIL

— 3" SHREDDED MULCH (TYP.)

- REF. DETAIL 7 OF L2.2 FOR

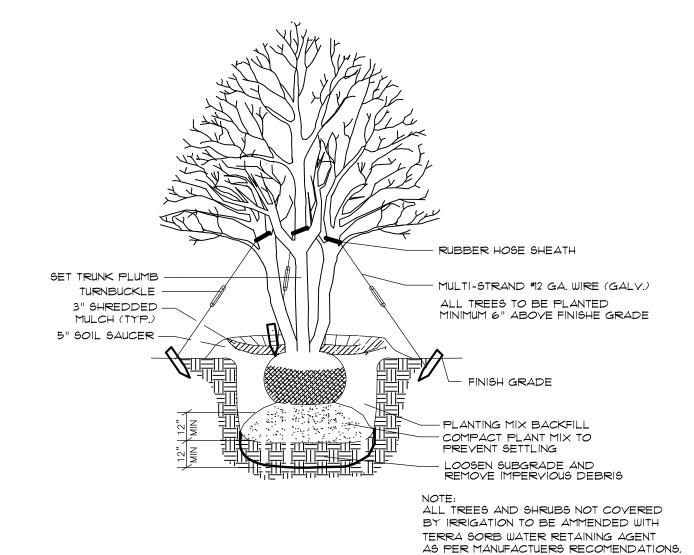
TRENCH EDGE DETAIL

LESS THAN 4'.

<u>PLAN</u>

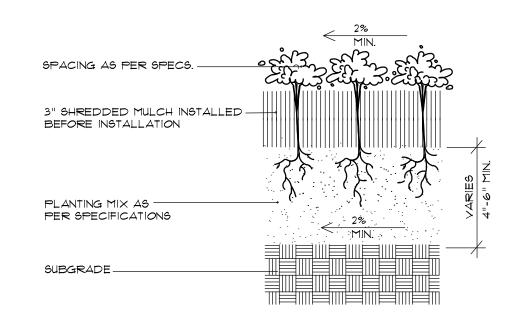
BANK SIGN





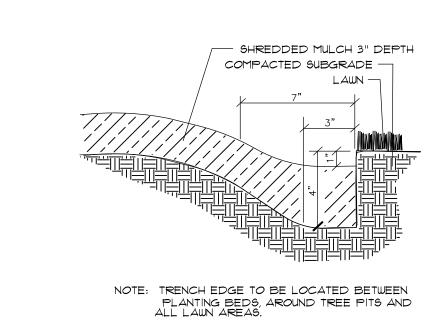
5 DETAIL MULTI-TRUNKED TREE PLANTING

/ NOT TO SCALE

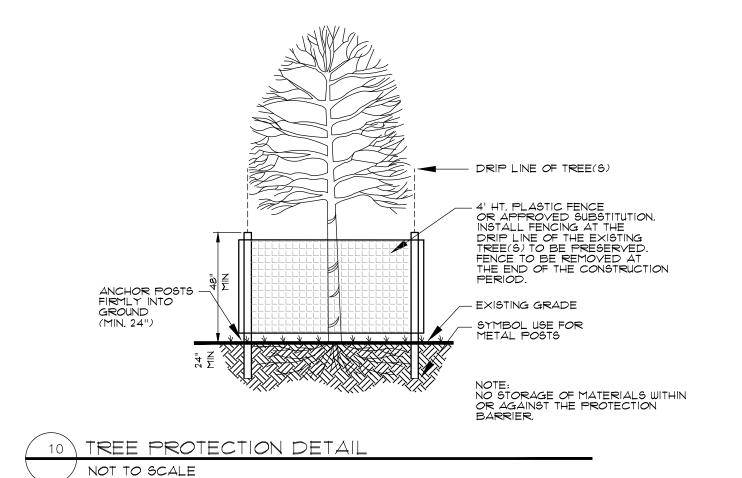


/ NOT TO SCALE





7 TRENCH EDGER DETAIL FOR ALL BEDS
NOT TO SCALE





CONTRACTOR SHALL BE RESPONSIBLE FOR THE SITE INSPECTION PRIOR TO LANDSCAPE CONSTRUCTION AND INSTALLATION IN ORDER TO ACQUAINT HIMSELF WITH EXISTING CONDITIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING UNDERGROUND UTILITIES BEFORE BEGINNING CONSTRUCTION.

CONTRACTOR SHALL VERIFY PLANT COUNT FROM PLAN AND REPORT DIFFERENCES.

ALL TREES AND SPECIMEN PLANT MATERIAL SHALL BE LOCATED BY THE CONTRACTOR AT APPROVED NURSERIES OR THEIR EQUAL APPROVED PRIOR TO BIDDING.

ALL PLANT MATERIALS ARE SUBJECT TO APPROVAL OR REFUSAL BY THE LANDSCAPE ARCHITECT AT THE JOB SITE.

CONTRACTOR SHALL LAYOUT TREES AND BED LINES FOR REVIEW BY LANDSCAPE ARCHITECT PRIOR TO PLANTING. A MINIMUM 24 HOUR NOTICE SHOULD BE GIVEN AND ANTICIPATED BY THE CONTRACTOR FOR THIS REVIEW.

CONTRACTOR SHALL SUPPLY AND SPREAD 4" TOP-SOIL IN SHRUB BEDS AND ALL AREAS TO BE SEEDED UNLESS OTHERWISE NOTED IN SPECIFICATIONS..

CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING 3% POSITIVE DRAINAGE IN ALL PLANT AREAS.

PLANTS SHALL BE WELL FORMED, VIGOROUS, GROWING SPECIMENS WITH GROWTH TYPICAL OF VARIEITES SPECIFIED AND SHALL BE FREE FROM INJURY, INSECTS AND DISEASES. PLANTS SHALL EQUAL OR SURPASS QUALITY AS DEFINED IN THE CURRENT ISSUE OF NURSERY "AMERICAN STANDARDS FOR NURSERY STOCK" AS PUBLISHED BY THE AMERICAN NURSERYMEN, INC.

ALL PLANT MATERIAL SHALL BE BALLED AND BURLAPPED OR CONTAIANER GROWN.

ALL SHRUBS, TREES AND GROUND COVERS SHALL BE PLANTED WITH A SOIL MIXTURE CONSISTING OF 50% TOPSOIL AND 50% ORGANIC MATERIAL AND PER SPECIFICATIONS.

FRONT ROW OR SHRUBS SHALL E PLANTED MINIMUM 24" BEHIND BED LINE & LAWNS OR WALKS AND MINIMUM 36" BACK OR CURB & PARKING SPACES.

BACK ROW OF SHRUB PLANTING SHALL BE PLANTED & 36" OFF FACE OF BUILDING WALL, GROUND COVERS SHALL BE 12" OUT FROM BUILDING AS REQUIRED BY PLANT SPECIFICATIONS.

EXCAVATE EDGE OF ALL PLANTING BEDS TO 4" DEPTH TO FORM A NEAT CRISP DEFINITION.

ALL PLANTING BEDS AND TREE PITS SHALL BE MULCHED WITH A 3" SETTLED LAYER OF SINGLE SHREDDED MULCH - NO NUGGETS. IF WITHIN A DEVELOPMENT REQUIRING PARTICULAR MULCH, CONTRACTOR TO INSTALL AS REQUIRED WITH BANK APPROVAL.

GRASS: ALL AREAS TO BE GRASSED SHALL BE TILLED AND GRADED TO A DEPTH OF 6". SLAG OF LIME SHALL BE APPLIED AT A RATE OF 100 POUNDS PER 1000 SQ. FT. ADD TURF GREEN OR EQUAL (12-5-8 SLOW RATE) AT A RATE OF 50 POUNDS PER 1000 SQ. FT. SEEDED AREAS SHALL BE COVERED WITH A THIN LAYER OF WHEAT STRAW.

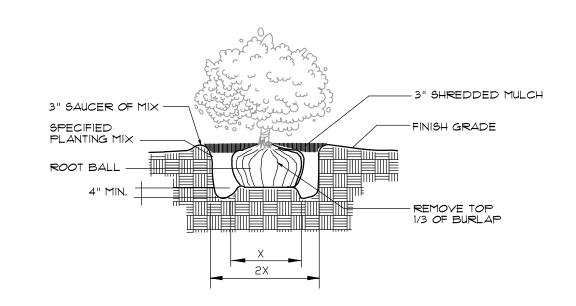
GRADE ALL AREAS FOR APPROVAL BY LANDSCAPE ARCHITECT BEFORE SODDING.

SEASONAL COLOR SHALL BE PLANTED IN FLOWERING STATE.

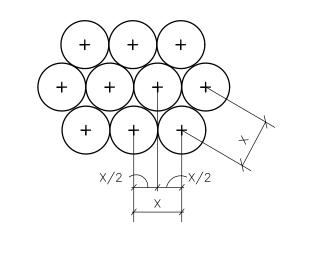
CONTRACTOR SHALL GUARANTEE ALL PLANT MATERIAL, INCLUDING GRASS FOR ONE FULL YEAR FROM DATE OF SUBSTANTIAL COMPLETION.

REMOVE ALL GUY WIRES AND STAKES AT END OF GUARANTEE PERIOD.

WHEN TREES ARE PLANTED THE MONTHS OF MARCH THRU OCTOBER, THE LANDSCAPE CONTRACTOR SHALL AMEND THE SOIL MIX WITH A MOISTURE RETENTION AGENT AS 'TERRA-SORB' OR EQUAL FOR EACH TREE INSTALLATION.







NOTES: 1. SEE PLANTING PLANS FOR SHRUB & GROUNDCOVER BED AREAS.

2. ROWS SHALL BE STRAIGHT & PARALLEL.

3. SPACING SHOWN ON PLANT SCHEDULE (X).

9 DETAIL TYPICAL STAGGERED ROW SPACING
NOT TO SCALE

JOHNSON & CO.

LANDSCAPE ARCHITECTS
LAND PLANNERS

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--- 3" SHREDDED MULCH (TYP.)

- REF. DETAIL 7 OF L2.2 FOR

TRENCH EDGE DETAIL

 \longrightarrow 3" SHREDDED MULCH (TYP.) \nearrow REF. DETAIL 1 OF L2.2 FOR

TRENCH EDGE DETAIL

BANK SIGN

<u>PLAN</u>

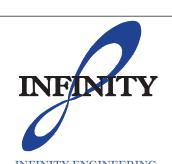
FIFTH

THIRD

BANK SIGN



FIFTH THIRD BANK
OLESVILLE WALLBROOK
LOT 3 - PUBLIX AT WALLBROOK
OLESVILLE, NORTH CAROLINA 27587



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ISSUE	BY	DATE	DESCRIPTION
		08/16/24	PERMIT SET
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JOB # 230634

DATE: 08/16/2024

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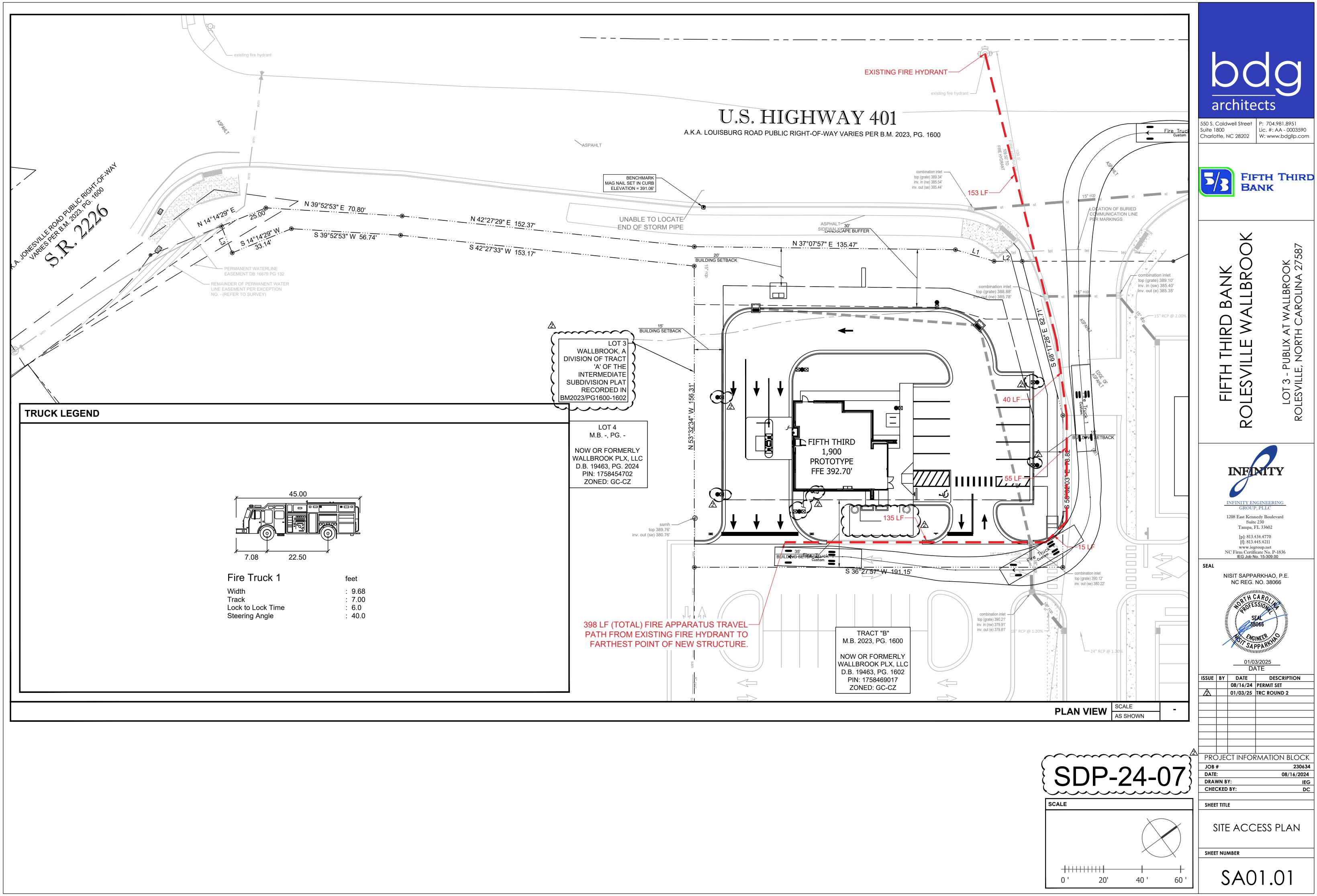
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LANDSCAPE DETAILS

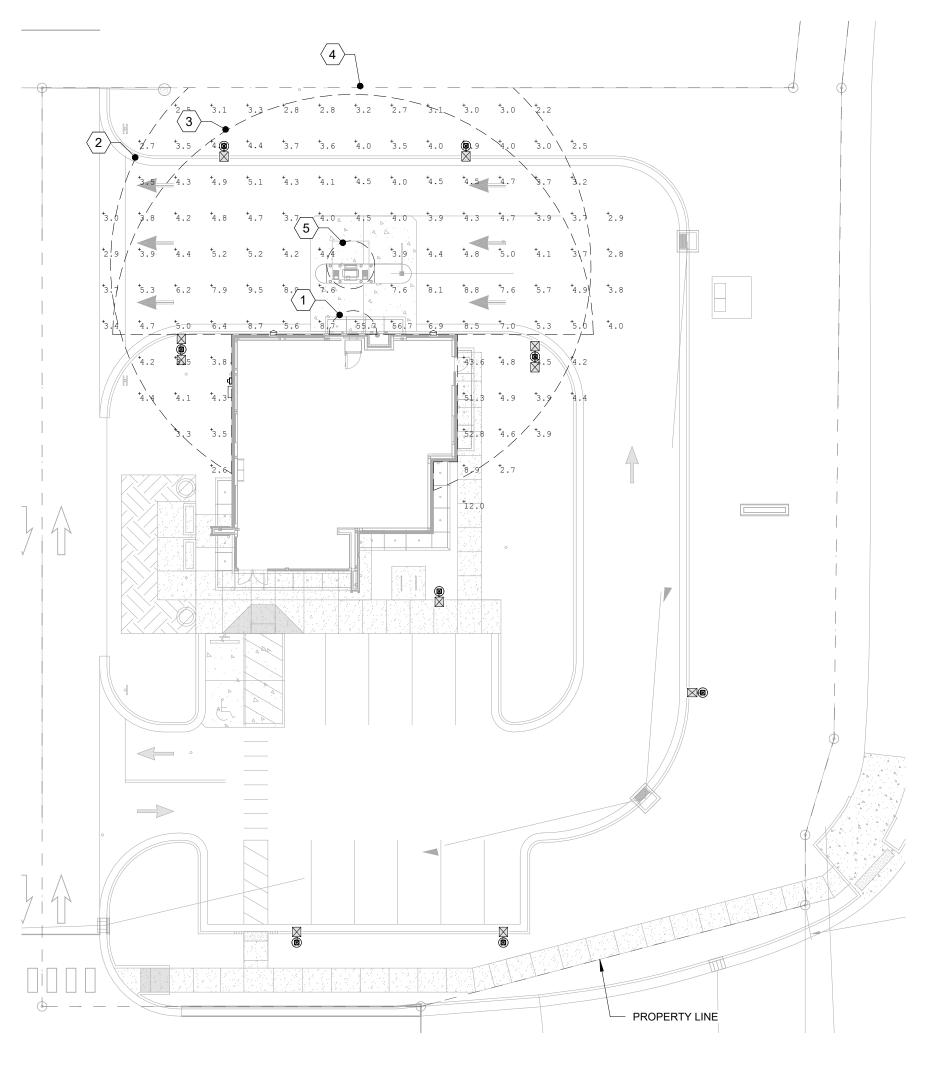
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		08/16/24	PERMIT SET
\triangle		01/03/25	TRC ROUND 2

230634 08/16/2024



2 ELECTRICAL PHOTOMETRIC SITE PLAN AT 3'-0"

ELECTRICAL PHOTOMETRIC SITE PLAN AT GRADE

1.2 1.6 1.7 2.5

1.0 1.2 1.4 3.8

CALCULATION SUMMARY AT 36" AFG									
LABEL	CALCTYPE	UNIT	AVG	MAX	MIN	AVG/MIN	MAX/MIN		
DRIVE-UP ATM - 5FT COMPLIANCE	ILLUMINANCE	FC	PROVIDED BY CANOPY MANUFACTURER						
DRIVE-UP ATM - 50FT COMPLIANCE	ILLUMINANCE	FC	6.21	73.8	2.1	2.96	35.14		
NIGHT DEPOSITORY - 5FT COMPLIANCE	ILLUMINANCE	FC	56.27	73.1	42.1	1.34	1.74		
NIGHT DEPOSITORY - 50FT COMPLIANCE	ILLUMINANCE	FC	5.94	73.8	2.7	2.20	27.33		

 $1.7 \parallel 1.0 \pm 0.0$ 2.4 3.1 3.1 3.3 3.1 3.3 3.2 3.1 3.3 3.2 3.1 3.4 3.1 2.9 2.2 2.0 1.4 1.0 0.7 0.6 0.4 0.3 0.2

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4.1 4.9 5.7 6.9 7.2 6.6 6.5 6.9 6.7 5.5 4.4 3.9 2.7 1.8 1.5 1.1 0.7 0.4

4 3 4 5.5 7.0 7.3 7.0 8.0 8.6 7.2 7.2 5.7 4.9 4.4 3.2 2.1 1 1.8 1.3 0.8 0.4

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121.9 3.4 3.1 3.3 2.7 1.9 1.7 1.3 0.8 0.5 0.5

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- PROPERTY LINE

21.5 28.9 13.5 3.2 ° 3.2 2.9 2.8 2.8 2.3 1.8 1.5 1.0 0.6 0.4

CALCULATION SUMMARY AT GRADE							
LABEL	CALCTYPE	UNIT	AVG	MAX	MIN	AVG/MIN	MAX/MIN
ARKING LOTS	ILLUMINANCE	FC	3.15	9.5	0.5	6.30	19.00
ROPERTY LINE	ILLUMINANCE	FC	0.66	2.7	0.0	N/A	N/A

SHEET NOTES:

PHOTOMETRY CALCULATION: PHOTOMETRIC VALUES SHOWN HEREIN ARE INTENDED FOR DESIGN AND EVALUATION PURPOSES ONLY. THE CALCULATED POINT-BY-POINT VALUES SHOWN ON THIS SHEET ARE BASED ON A COMPUTER LIGHTING PROGRAM WITH APPROXIMATED PARAMETERS. AS A RESULT, PHOTOMETRIC VALUES MAY VARY FROM ACTUAL FIELD MEASUREMENTS.

LIGHTING STANDARDS:

MINIMUM STANDARD

- A MINIMUM OF TEN (10) FOOT CANDLE POWER AT THE FACE OF THE ATM OR AFTER-HOUR DEPOSITORY EXTENDING OUTWARD FIVE (5) FEET IN ALL UNOBSTRUCTED DIRECTIONS. A MINIMUM OF TWO (2) FOOT CANDLE POWER EXTENDING OUTWARDS
- THE ATM AND AFTER-HOUR DEPOSITORY A MINIMUM OF TWO (2) FOOT CANDLE POWER IN DEFINED PARKING AREAS WITHIN SIXTY (60) FEET OF THE ATM AND AFTER-HOUR DEPOSITORY. IN THE EVENT THE ATM OR AFTER-HOUR DEPOSITORY IS LOCATED WITHIN TEN (10) FEET OF THE CORNER OF THE BUILDING AND IS GENERALLY ACCESSIBLE FROM THE ADJACENT SIDE, THERE SHALL BE A MINIMUM OF TWO (2) FOOT CANDLE POWER ALONG THE FIRST

FORTY (40) UNOBSTRUCTED FEET OF THE ADJACENT SIDE OF THE

IN ALL UNOBSTRUCTED DIRECTIONS FIFTY (50) FEET FROM THE FACE OF

- BUILDING. IF THE ATM OR AFTER-HOUR DEPOSITORY IS LOCATED INSIDE A ACCESSIBLE VESTIBULE DURING ANY HOURS OF DARKNESS, A MINIMUM OF 10 FOOT CANDLE POWER AT THE FACE OF THE ATM OR AFTER-HOUR DEPOSITORY EXTENDING OUTWARD FIVE (5) FEET IN ALL UNOBSTRUCTED DIRECTIONS. THERE WILL BE A MINIMUM OF TWO (2) FOOT CANDLE POWER AT THE INSIDE OF THE VESTIBULE ENTRY/EXIT DOOR(S). A MINIMUM OF TWO (2) FOOT CANDLE POWER EXTENDING CANDLE POWER IN DEFINED PARKING AREAS WITHIN SIXTY (60) FEET OF THE VESTIBULE ENTRY/EXIT DOOR. IN THE EVENT THE VESTIBULE ENTRY/EXIT DOOR IS LOCATED WITHIN TEN (10) FEET OF THE CORNER OF THE BUILDING AND IS GENERALLY ACCESSIBLE FROM THE ADJACENT SIDE, THERE SHALL BE A MINIMUM OF TWO (2) FOOT CANDLE POWER ALONG THE FIRST FORTY (40) UNOBSTRUCTED FEET OF THE ADJACENT SIDE OF THE BUILDING. IN URBAN SETTINGS FOR WHICH THERE IS NO DEFINED BANK PARKING AND THE ONLY ACCESS AREA IS A PUBLIC SIDEWALK, A MINIMUM 2 FOOT CANDLE POWER SHALL BE FOR THE FIRST 5 UNOBSTRUCTED FEET FROM THE DOOR. THE MINIMUM FOOT CANDLE READING WILL ALSO BE LIMITED TO BANK CONTROLLED
- A MINIMUM OF TWO (2) FOOT CANDLE POWER IN THE IMMEDIATE AREA OF THE DESIGNATED ASSOCIATE ENTRANCE/EXIT TO THE FACILITY. ALL LIGHTING MEASUREMENTS ARE TO BE TAKEN AT 36 INCHES ABOVE THE GROUND ON A HORIZONTAL PLANE, UNLESS OTHERWISE SPECIFIED BY STATE LAW OR REGULATION (3/07).
- THE MINIMUM STANDARD SHALL APPLY UNLESS A GREATER STANDARD IS REQUIRED BY AN APPLICABLE LAW FOR A PARTICULAR FACILITY LOCATION.

KEYED NOTES:

- AFTER-HOUR DEPOSITORY FIVE FOOT COMPLIANCE AREA: A MINIMUM OF TEN (10) FOOT CANDLE POWER AT THE FACE OF THE ATM/AFTER-HOUR DEPOSITORY EXTENDING OUTWARD FIVE (5) FEET IN ALL UNOBSTRUCTED
- ATM FIFTY FOOT COMPLIANCE AREA: A MINIMUM OF TWO (2) FOOT CANDLE POWER EXTENDING OUTWARD IN ALL UNOBSTRUCTED DIRECTIONS FIFTY (50) FEET FROM THE FACE OF THE ATM AND AFTER-HOUR DEPOSITORY.
- AFTER-HOUR DEPOSITORY SIXTY FOOT COMPLIANCE AREA: A MINIMUM OF TWO (2) FOOT CANDLE POWER EXTENDING OUTWARD IN ALL UNOBSTRUCTED DIRECTIONS FIFTY (50) FEET FROM THE FACE OF THE ATM AND AFTER-HOUR DEPOSITORY.
- BANK CONTROLLED PROPERTY LINES: THE MINIMUM FOOT CANDLE READING WILL BE LIMITED TO BANK CONTROLLED PROPERTY LINES.
- ATM FIVE FOOT COMPLIANCE AREA: A MINIMUM OF TEN (10) FOOT CANDLE POWER AT THE FACE OF THE ATM/AFTER-HOUR DEPOSITORY EXTENDING OUTWARD FIVE (5) FEET IN ALL UNOBSTRUCTED DIRECTIONS TO BE PROVIDED BY OWNER'S PREMANUFACTURED ATM CANOPY.



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DAMAGES ASSOCIATED WITH THE DISCREPANCIES OR CONFLICTS. THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION, SCHEDULING AND CONFORMANCE OF ITS WORK AND ALL WORK PERFORMED BY SUBCONTRACTORS OR OTHER TRADES WITH THE DESIGN DOCUMENTS.

ANDREW MOHR NC PE# 043030

SEAL

SEAL 043030

Infinity Engineering Group 1208 East Kennedy Boulevard, INFINITY Suite 230 Tampa, Florida 33602 Phone: 813.434.4770

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PROJECT INFORMATION BLOCK

01/03/2025

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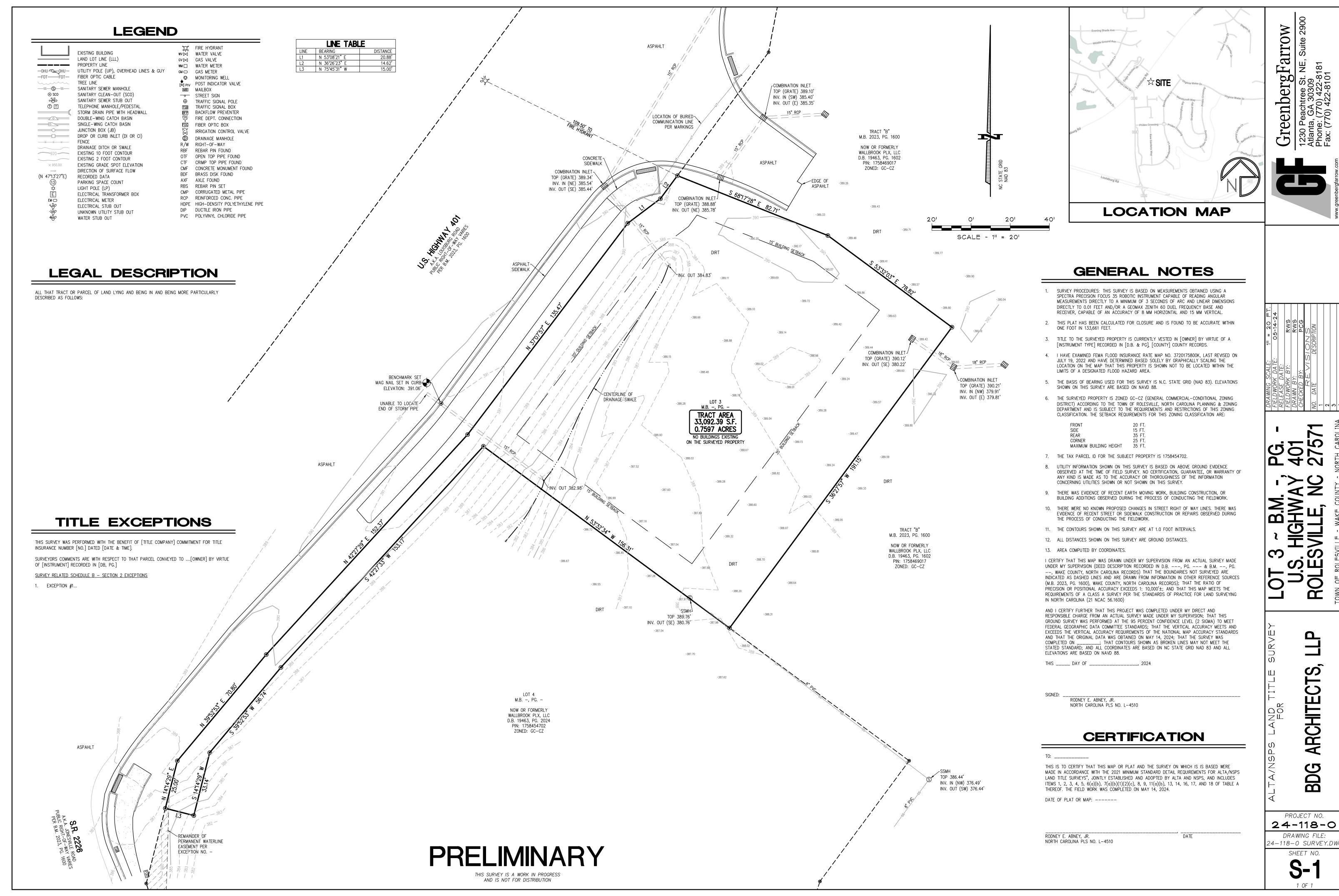
JOB# 230634/15-309.00 DATE: DRAWN BY:

CHECKED BY: SHEET TITLE

> ELECTRICAL PHOTOMETRIC SITE PLAN

SHEET NUMBER

E-011





24-118-0