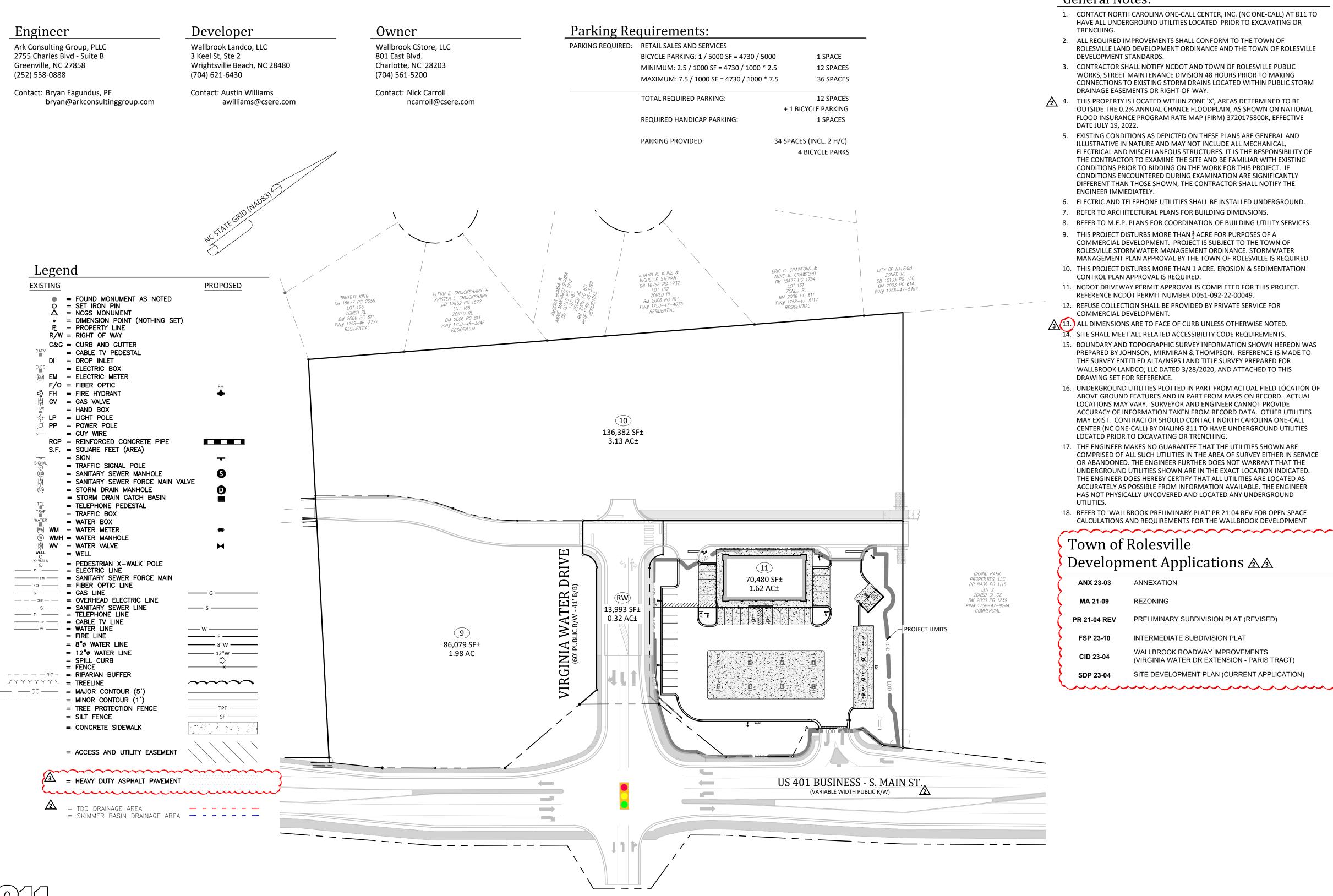
7ELEVEN AT WALLBROOK (LOT 11)

SITE DEVELOPMENT PLAN - SDP 23-04^a

US-401 Business / S. Main Street ~ Town of Rolesville ~ Wake County ~ North Carolina

V3-SDP-23-04



General Notes:

- 1. CONTACT NORTH CAROLINA ONE-CALL CENTER, INC. (NC ONE-CALL) AT 811 TO HAVE ALL UNDERGROUND UTILITIES LOCATED PRIOR TO EXCAVATING OR
- 2. ALL REQUIRED IMPROVEMENTS SHALL CONFORM TO THE TOWN OF ROLESVILLE LAND DEVELOPMENT ORDINANCE AND THE TOWN OF ROLESVILLE **DEVELOPMENT STANDARDS.**
- 3. CONTRACTOR SHALL NOTIFY NCDOT AND TOWN OF ROLESVILLE PUBLIC WORKS, STREET MAINTENANCE DIVISION 48 HOURS PRIOR TO MAKING CONNECTIONS TO EXISTING STORM DRAINS LOCATED WITHIN PUBLIC STORM DRAINAGE EASEMENTS OR RIGHT-OF-WAY.
- 4. THIS PROPERTY IS LOCATED WITHIN ZONE 'X', AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN, AS SHOWN ON NATIONAL FLOOD INSURANCE PROGRAM RATE MAP (FIRM) 3720175800K, EFFECTIVE DATE JULY 19, 2022.
- 5. EXISTING CONDITIONS AS DEPICTED ON THESE PLANS ARE GENERAL AND CONDITIONS PRIOR TO BIDDING ON THE WORK FOR THIS PROJECT. IF CONDITIONS ENCOUNTERED DURING EXAMINATION ARE SIGNIFICANTLY DIFFERENT THAN THOSE SHOWN, THE CONTRACTOR SHALL NOTIFY THE
- 6. ELECTRIC AND TELEPHONE UTILITIES SHALL BE INSTALLED UNDERGROUND.
- 7. REFER TO ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS.
- 8. REFER TO M.E.P. PLANS FOR COORDINATION OF BUILDING UTILITY SERVICES. 9. THIS PROJECT DISTURBS MORE THAN ¹/₂ ACRE FOR PURPOSES OF A
- COMMERCIAL DEVELOPMENT. PROJECT IS SUBJECT TO THE TOWN OF ROLESVILLE STORMWATER MANAGEMENT ORDINANCE. STORMWATER
- 10. THIS PROJECT DISTURBS MORE THAN 1 ACRE. EROSION & SEDIMENTATION CONTROL PLAN APPROVAL IS REQUIRED.
- 11. NCDOT DRIVEWAY PERMIT APPROVAL IS COMPLETED FOR THIS PROJECT REFERENCE NCDOT PERMIT NUMBER D051-092-22-00049. 12. REFUSE COLLECTION SHALL BE PROVIDED BY PRIVATE SERVICE FOR

- PREPARED BY JOHNSON, MIRMIRAN & THOMPSON. REFERENCE IS MADE TO THE SURVEY ENTITLED ALTA/NSPS LAND TITLE SURVEY PREPARED FOR WALLBROOK LANDCO, LLC DATED 3/28/2020, AND ATTACHED TO THIS DRAWING SET FOR REFERENCE.
- 16. UNDERGROUND UTILITIES PLOTTED IN PART FROM ACTUAL FIELD LOCATION OF ABOVE GROUND FEATURES AND IN PART FROM MAPS ON RECORD. ACTUA LOCATIONS MAY VARY. SURVEYOR AND ENGINEER CANNOT PROVIDE ACCURACY OF INFORMATION TAKEN FROM RECORD DATA. OTHER UTILITIES MAY EXIST. CONTRACTOR SHOULD CONTACT NORTH CAROLINA ONE-CALL CENTER (NC ONE-CALL) BY DIALING 811 TO HAVE UNDERGROUND UTILITIES LOCATED PRIOR TO EXCAVATING OR TRENCHING.
- 17. THE ENGINEER MAKES NO GUARANTEE THAT THE UTILITIES SHOWN ARE COMPRISED OF ALL SUCH UTILITIES IN THE AREA OF SURVEY EITHER IN SERVICE OR ABANDONED. THE ENGINEER FURTHER DOES NOT WARRANT THAT THE UNDERGROUND LITHITIES SHOWN ARE IN THE EXACT LOCATION INDICATED THE ENGINEER DOES HEREBY CERTIFY THAT ALL UTILITIES ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE ENGINEER HAS NOT PHYSICALLY UNCOVERED AND LOCATED ANY UNDERGROUND
- 18. REFER TO 'WALLBROOK PRELIMINARY PLAT' PR 21-04 REV FOR OPEN SPACE

Town of Rolesville Development Applications 🛦 🛦

ANNEXATION

ANX 23-03

REZONING MA 21-09 PRELIMINARY SUBDIVISION PLAT (REVISED) INTERMEDIATE SUBDIVISION PLAT

WALLBROOK ROADWAY IMPROVEMENTS (VIRGINIA WATER DR EXTENSION - PARIS TRACT) SITE DEVELOPMENT PLAN (CURRENT APPLICATION)

Vicinity Map Site Data & NOT TO SCALE

1758-46-8940 GC-CZ 1.62 AC 1.31 AC 1.31 AC **Lower Neuse**

VACANT / WOODED NON-RESIDENTIAL / FUEL SALES / RETAIL 35' (REAR), 25' (CORNER), 20' (FRONT), 15' (SID REQUIRED BUILDING SETBACKS:

> 0% EXIST., 6.80% PROPOSED 21'5" (1 STORY) 12 SPACES (INCL. 1 H/C) + 1 BICYCLE SPACE

34 SPACES (INCL. 2 H/C) + 4 BICYCLE SPACES TOTAL NUMBER OF PROPOSED PARKING SPACES: TOTAL SQ. FEET OF EXIST. IMPERVIOUS AREA: TOTAL SQ. FEET OF PROP. IMPERVIOUS AREA: 52,272 SF (74%)

> DB 19463, PG 2429-2432 BM 2023, PG 1603-1604 BM 1996, PG 187

748 S. MAIN STREET

SHEET INDEX

WAKE COUNTY PIN:

CURRENT ZONING:

TOTAL ACREAGE IN SITE:

DISTURBED ACREAGE:

BUILDING FLOOR AREA:

BUILDING HEIGHT:

REFERENCES:

BUILDING LOT COVERAGE:

DEVELOPMENT STANDARDS:

TOTAL ACREAGE IN PROJECT LIMITS:

REAL ESTATE ID:

WATERSHED:

RIVER BASIN:

CURRENT USE:

PROPOSED USE:

TITLE COVER - OVERALL SITE PLAN

EXISTING CONDITIONS

EROSION CONTROL PLAN - Ph. 1

EROSION CONTROL PLAN - Ph. 2

EROSION CONTROL NOTES

EROSION CONTROL DETAILS

SITE PLAN

UTILITY PLAN

GRADING PLAN

REQUIRED VEGETATION PLAN

DETAILS

DETAILS

DETAILS

DETAILS

SURVEY - JOHNSON, MIRMIRAN, & THOMPSON (1 SHEET)

ARCHITECTURAL BUILDING ELEVATIONS

BUFSTUDIO (5 SHEETS)

SITE LIGHTING PLAN - BUFSTUDIO (3 SHEETS)

EROSION CONTROL, STORMWATER AND FLOODPLAIN MANAGEMENT

PR 21-04 REVISED - TREE PRESERVATION PLAN (1 SHEET)

APPROVED

EROSION CONTROL

S-STORMWATER MGMT. ☐ S-FLOOD STUDY S-

DATE



ENVIRONMENTAL CONSULTANT SIGNATURE



Drawn Bv: Checked By: Drawing Number: D-1404-SDP

SCALE 1 inch = 60 ft

SITE

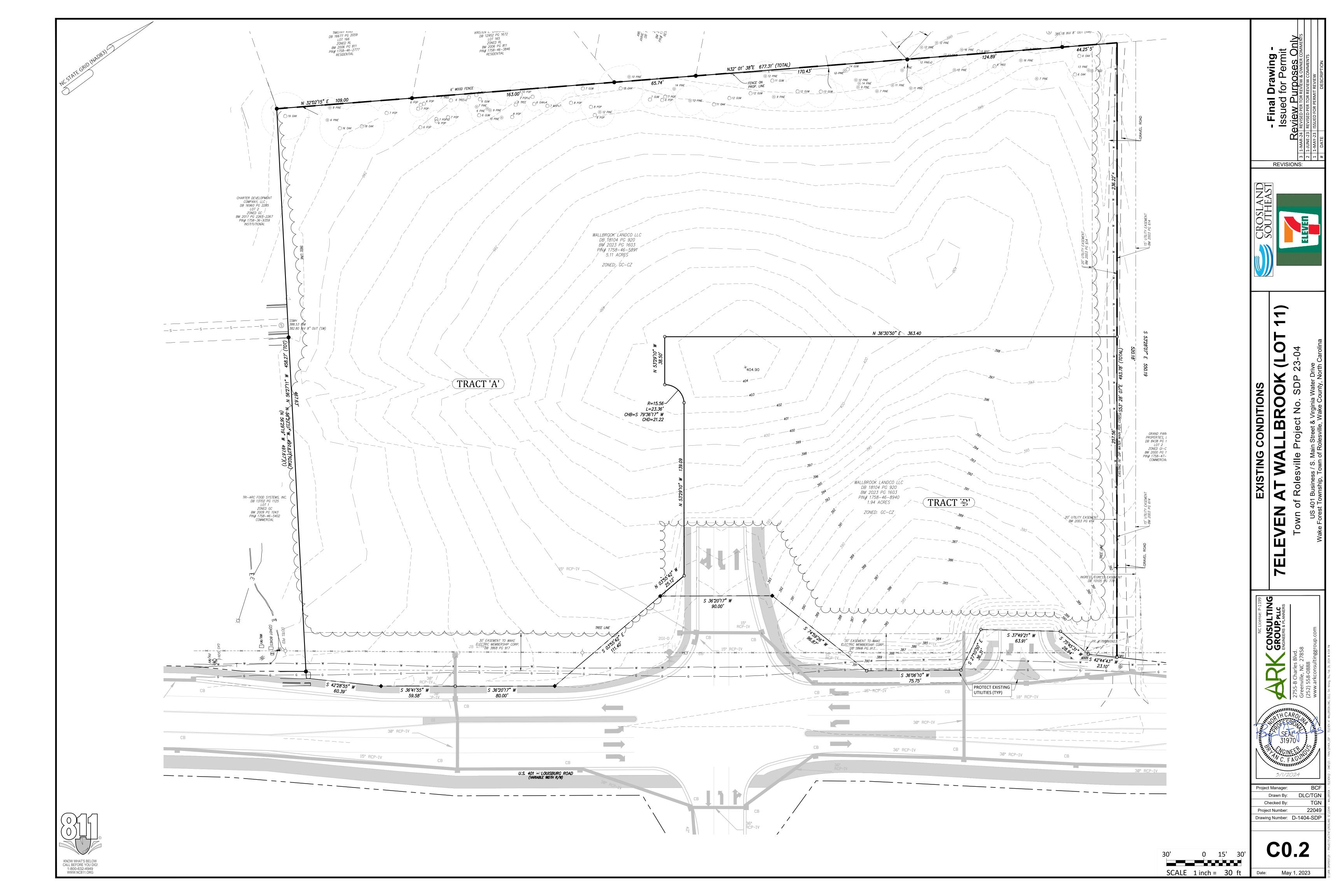
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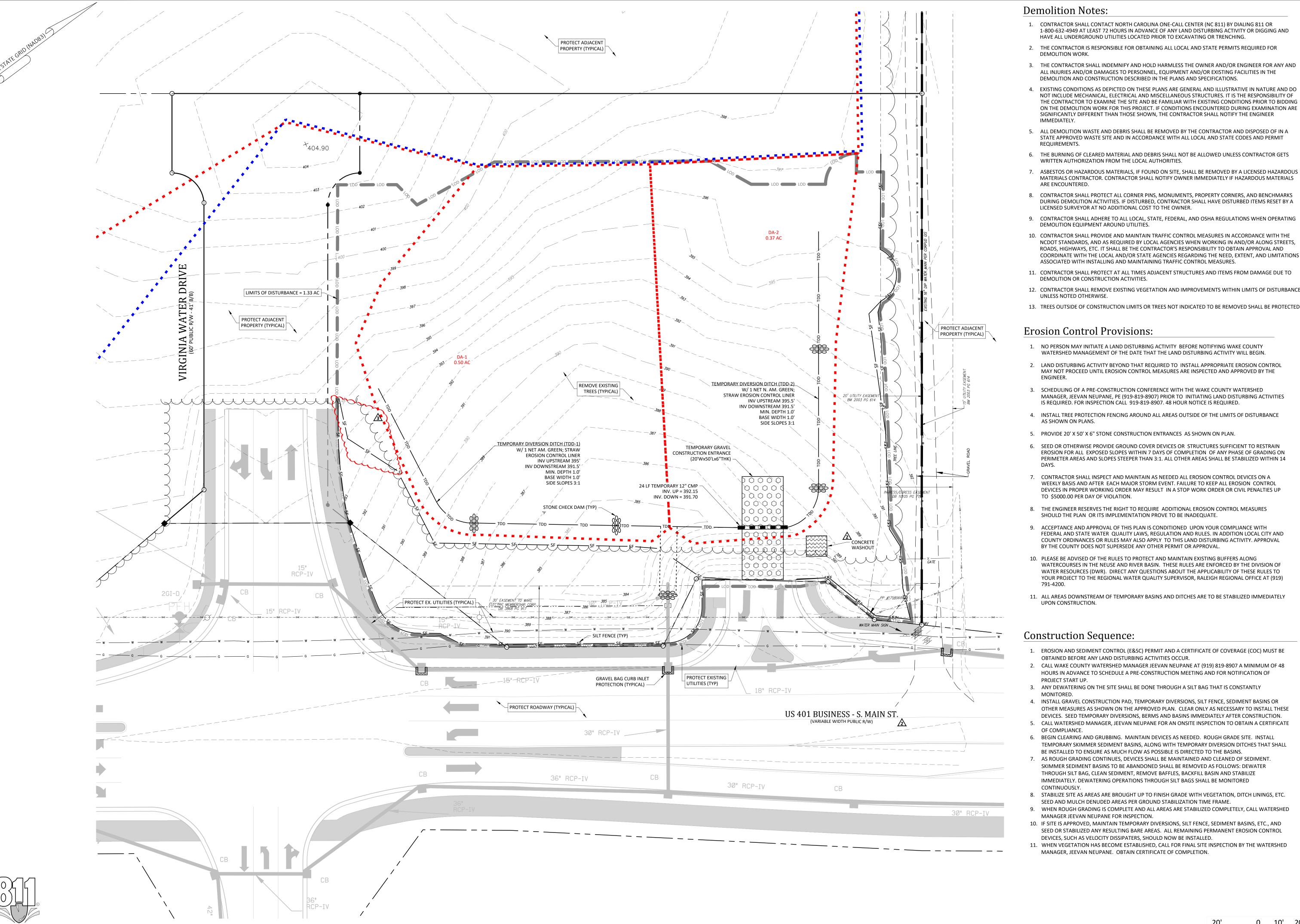
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CONSULTIN GROUP, PLLC







Demolition Notes:

- 1. CONTRACTOR SHALL CONTACT NORTH CAROLINA ONE-CALL CENTER (NC 811) BY DIALING 811 OR 1-800-632-4949 AT LEAST 72 HOURS IN ADVANCE OF ANY LAND DISTURBING ACTIVITY OR DIGGING AND HAVE ALL UNDERGROUND UTILITIES LOCATED PRIOR TO EXCAVATING OR TRENCHING.
- 2. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL LOCAL AND STATE PERMITS REQUIRED FOR DEMOLITION WORK.
- 3. THE CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE OWNER AND/OR ENGINEER FOR ANY AND ALL INJURIES AND/OR DAMAGES TO PERSONNEL, EQUIPMENT AND/OR EXISTING FACILITIES IN THE DEMOLITION AND CONSTRUCTION DESCRIBED IN THE PLANS AND SPECIFICATIONS.
- 4. EXISTING CONDITIONS AS DEPICTED ON THESE PLANS ARE GENERAL AND ILLUSTRATIVE IN NATURE AND DO THE CONTRACTOR TO EXAMINE THE SITE AND BE FAMILIAR WITH EXISTING CONDITIONS PRIOR TO BIDDING ON THE DEMOLITION WORK FOR THIS PROJECT. IF CONDITIONS ENCOUNTERED DURING EXAMINATION ARE SIGNIFICANTLY DIFFERENT THAN THOSE SHOWN, THE CONTRACTOR SHALL NOTIFY THE ENGINEER
- 5. ALL DEMOLITION WASTE AND DEBRIS SHALL BE REMOVED BY THE CONTRACTOR AND DISPOSED OF IN A STATE APPROVED WASTE SITE AND IN ACCORDANCE WITH ALL LOCAL AND STATE CODES AND PERMIT
- 6. THE BURNING OF CLEARED MATERIAL AND DEBRIS SHALL NOT BE ALLOWED UNLESS CONTRACTOR GETS WRITTEN AUTHORIZATION FROM THE LOCAL AUTHORITIES.
- 7. ASBESTOS OR HAZARDOUS MATERIALS, IF FOUND ON SITE, SHALL BE REMOVED BY A LICENSED HAZARDOUS MATERIALS CONTRACTOR. CONTRACTOR SHALL NOTIFY OWNER IMMEDIATELY IF HAZARDOUS MATERIALS
- 8. CONTRACTOR SHALL PROTECT ALL CORNER PINS, MONUMENTS, PROPERTY CORNERS, AND BENCHMARKS DURING DEMOLITION ACTIVITIES. IF DISTURBED, CONTRACTOR SHALL HAVE DISTURBED ITEMS RESET BY A LICENSED SURVEYOR AT NO ADDITIONAL COST TO THE OWNER.
- 9. CONTRACTOR SHALL ADHERE TO ALL LOCAL, STATE, FEDERAL, AND OSHA REGULATIONS WHEN OPERATING DEMOLITION EQUIPMENT AROUND UTILITIES.
- 10. CONTRACTOR SHALL PROVIDE AND MAINTAIN TRAFFIC CONTROL MEASURES IN ACCORDANCE WITH THE NCDOT STANDARDS, AND AS REQUIRED BY LOCAL AGENCIES WHEN WORKING IN AND/OR ALONG STREETS, ROADS, HIGHWAYS, ETC. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN APPROVAL AND
- 11. CONTRACTOR SHALL PROTECT AT ALL TIMES ADJACENT STRUCTURES AND ITEMS FROM DAMAGE DUE TO DEMOLITION OR CONSTRUCTION ACTIVITIES.
- 12. CONTRACTOR SHALL REMOVE EXISTING VEGETATION AND IMPROVEMENTS WITHIN LIMITS OF DISTURBANCE UNLESS NOTED OTHERWISE.
- 13. TREES OUTSIDE OF CONSTRUCTION LIMITS OR TREES NOT INDICATED TO BE REMOVED SHALL BE PROTECTED.

Erosion Control Provisions:

- 1. NO PERSON MAY INITIATE A LAND DISTURBING ACTIVITY BEFORE NOTIFYING WAKE COUNTY WATERSHED MANAGEMENT OF THE DATE THAT THE LAND DISTURBING ACTIVITY WILL BEGIN.
- 2. LAND DISTURBING ACTIVITY BEYOND THAT REQUIRED TO INSTALL APPROPRIATE EROSION CONTROL MAY NOT PROCEED UNTIL EROSION CONTROL MEASURES ARE INSPECTED AND APPROVED BY THE
- 3. SCHEDULING OF A PRE-CONSTRUCTION CONFERENCE WITH THE WAKE COUNTY WATERSHED MANAGER, JEEVAN NEUPANE, PE (919-819-8907) PRIOR TO INITIATING LAND DISTURBING ACTIVITIES IS REQUIRED. FOR INSPECTION CALL 919-819-8907. 48 HOUR NOTICE IS REQUIRED.
- 4. INSTALL TREE PROTECTION FENCING AROUND ALL AREAS OUTSIDE OF THE LIMITS OF DISTURBANCE AS SHOWN ON PLANS.
- 5. PROVIDE 20' X 50' X 6" STONE CONSTRUCTION ENTRANCES AS SHOWN ON PLAN.
- . SEED OR OTHERWISE PROVIDE GROUND COVER DEVICES OR STRUCTURES SUFFICIENT TO RESTRAIN EROSION FOR ALL EXPOSED SLOPES WITHIN 7 DAYS OF COMPLETION OF ANY PHASE OF GRADING ON PERIMETER AREAS AND SLOPES STEEPER THAN 3:1. ALL OTHER AREAS SHALL BE STABILIZED WITHIN 14
- 7. CONTRACTOR SHALL INSPECT AND MAINTAIN AS NEEDED ALL EROSION CONTROL DEVICES ON A WEEKLY BASIS AND AFTER EACH MAJOR STORM EVENT. FAILURE TO KEEP ALL EROSION CONTROL DEVICES IN PROPER WORKING ORDER MAY RESULT IN A STOP WORK ORDER OR CIVIL PENALTIES UP TO \$5000.00 PER DAY OF VIOLATION.
- 8. THE ENGINEER RESERVES THE RIGHT TO REQUIRE ADDITIONAL EROSION CONTROL MEASURES SHOULD THE PLAN OR ITS IMPLEMENTATION PROVE TO BE INADEQUATE.
- 9. ACCEPTANCE AND APPROVAL OF THIS PLAN IS CONDITIONED UPON YOUR COMPLIANCE WITH FEDERAL AND STATE WATER QUALITY LAWS, REGULATION AND RULES. IN ADDITION LOCAL CITY AND COUNTY ORDINANCES OR RULES MAY ALSO APPLY TO THIS LAND DISTURBING ACTIVITY. APPROVAL BY THE COUNTY DOES NOT SUPERSEDE ANY OTHER PERMIT OR APPROVAL.
- 10. PLEASE BE ADVISED OF THE RULES TO PROTECT AND MAINTAIN EXISTING BUFFERS ALONG WATERCOURSES IN THE NEUSE AND RIVER BASIN. THESE RULES ARE ENFORCED BY THE DIVISION OF WATER RESOURCES (DWR). DIRECT ANY QUESTIONS ABOUT THE APPLICABILITY OF THESE RULES TO YOUR PROJECT TO THE REGIONAL WATER QUALITY SUPERVISOR, RALEIGH REGIONAL OFFICE AT (919)
- 11. ALL AREAS DOWNSTREAM OF TEMPORARY BASINS AND DITCHES ARE TO BE STABILIZED IMMEDIATELY UPON CONSTRUCTION.

Construction Sequence:

- 1. EROSION AND SEDIMENT CONTROL (E&SC) PERMIT AND A CERTIFICATE OF COVERAGE (COC) MUST BE OBTAINED BEFORE ANY LAND DISTURBING ACTIVITIES OCCUR.
- 2. CALL WAKE COUNTY WATERSHED MANAGER JEEVAN NEUPANE AT (919) 819-8907 A MINIMUM OF 48 HOURS IN ADVANCE TO SCHEDULE A PRE-CONSTRUCTION MEETING AND FOR NOTIFICATION OF PROJECT START UP.
- 3. ANY DEWATERING ON THE SITE SHALL BE DONE THROUGH A SILT BAG THAT IS CONSTANTLY
- 4. 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.
- 5. CALL WATERSHED MANAGER, JEEVAN NEUPANE FOR AN ONSITE INSPECTION TO OBTAIN A CERTIFICATE OF COMPLIANCE. 6. BEGIN CLEARING AND GRUBBING. MAINTAIN DEVICES AS NEEDED. ROUGH GRADE SITE. INSTALL
- TEMPORARY SKIMMER SEDIMENT BASINS, ALONG WITH TEMPORARY DIVERSION DITCHES THAT SHALL BE INSTALLED TO ENSURE AS MUCH FLOW AS POSSIBLE IS DIRECTED TO THE BASINS. AS ROUGH GRADING CONTINUES, DEVICES SHALL BE MAINTAINED AND CLEANED OF SEDIMENT.
- SKIMMER SEDIMENT BASINS TO BE ABANDONED SHALL BE REMOVED AS FOLLOWS: DEWATER THROUGH SILT BAG, CLEAN SEDIMENT, REMOVE BAFFLES, BACKFILL BASIN AND STABILIZE IMMEDIATELY. DEWATERING OPERATIONS THROUGH SILT BAGS SHALL BE MONITORED CONTINUOUSLY.
- 8. STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISH GRADE WITH VEGETATION, DITCH LININGS, ETC. SEED AND MULCH DENUDED AREAS PER GROUND STABILIZATION TIME FRAME.
- 9. WHEN ROUGH GRADING IS COMPLETE AND ALL AREAS ARE STABILIZED COMPLETELY, CALL WATERSHED MANAGER JEEVAN NEUPANE FOR INSPECTION.
- 10. IF SITE IS APPROVED, MAINTAIN TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS, ETC., AND SEED OR STABILIZED ANY RESULTING BARE AREAS. ALL REMAINING PERMANENT EROSION CONTROL DEVICES, SUCH AS VELOCITY DISSIPATERS, SHOULD NOW BE INSTALLED.
- 11. WHEN VEGETATION HAS BECOME ESTABLISHED, CALL FOR FINAL SITE INSPECTION BY THE WATERSHED MANAGER, JEEVAN NEUPANE. OBTAIN CERTIFICATE OF COMPLETION.



Drawing Number: D-1404-SDP

Project Manager:

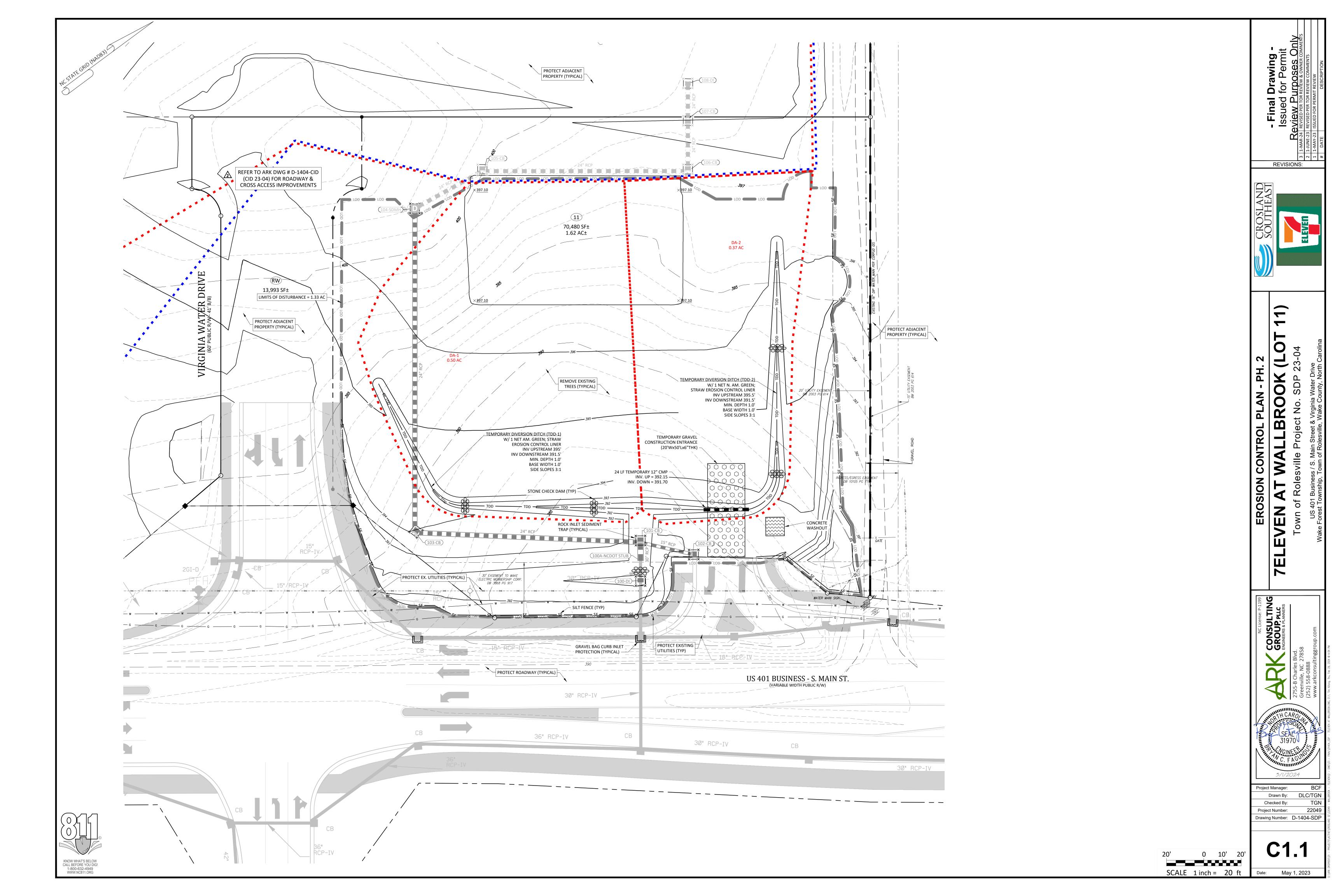
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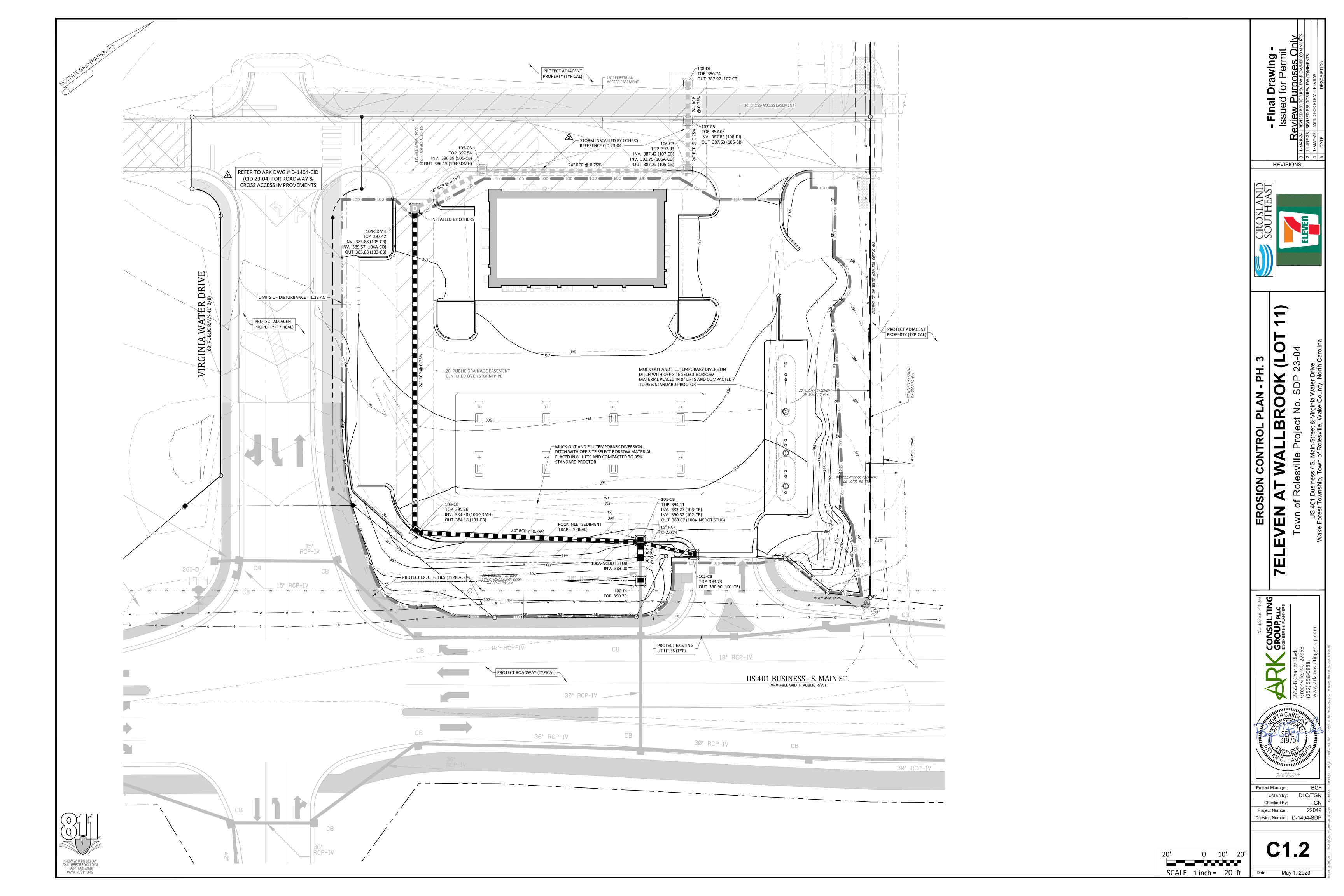
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CONSULTING GROUP, PLLC. ENGINEERS & PLANNERS

REVISIONS:

SLAND JTHEAST





GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT

Implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority having jurisdiction.

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 Zones -10 days for Falls Lake Watershed unless there is zero slope 		

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.

GROUND STABILIZATION SPECIFICATION

Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the techniques in the table below:

Temporary Stabilzation	Permanent Stabilzation	
Temporary grass seed covered with straw or other mulches and tackifiers	Permanent grass seed covered with straw or other mulches and tackifiers	
Hydroseeding Rolled erosion control products with or	Geotextile fabrics such as permanent soil reinforcement matting	
without temporary grass seed	Hydroseeding	
Appropriately applied straw or other mulch plastic sheeting	Shrubs or other permanent plantings covered with mulch	

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

Select flocculants that are appropriate for the soils being exposed during construction, selecting from the NC DWR List of Approved PAMS/Flocculants.

or retaining walls

 Uniform and evenleyh distributed ground cover sufficient to restrain erosion

Structural methods such as concrete, asphalt,

Rolled erosion control products with grass seed

- Apply flocculants at or before the inlets to Erosion and Sediment Control Measures. Apply flocculants at the concentrations specified in the NC DWR List of Approved
- *PAMS/Flocculants* and in accordance with the manufacturer's instructions. Provide ponding area for containment of treated Stormwater before discharging
- Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures

EQUIPMENT AND VEHICLE MAINTENANCE

- Maintain vehicles and equipment to prevent discharge of fluids.
- Provide drip pans under any stored equipment. Identify leaks and repair as soon as feasible, or remove leaking equipment from the
- Collect all spent fluids, store in separate containers and properly dispose as
- hazardous waste (recycle when possible). Remove leaking vehicles and construction equipment from service until the problem
- Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

- Never bury or burn waste. Place litter and debris in approved waste containers. Provide a sufficient number and size of waste containers (e.g dumpster, trash
- receptacle) on site to contain construction and domestic wastes. Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Locate waste containers on areas that do not receive substantial amounts of runoff
- from upland areas and does not drain directly to a storm drain, stream or wetland. Cover waste containers at the end of each workday and before storm events or
- provide secondary containment. Repair or replace damaged waste containers. Anchor all lightweight items in waste containers during times of high winds. Empty waste containers as needed to prevent overflow. Clean up immediately if
- containers overflow.
- B. Dispose waste off-site at an approved disposal facility. 9. On business days, clean up and dispose of waste in designated waste containers.

PAINT AND OTHER LIQUID WASTE

- 1. Do not dump paint and other liquid waste into storm drains, streams or wetlands. 2. Locate paint washouts at least 50 feet away from storm drain inlets and surface
- waters unless no other alternatives are reasonably available. 3. Contain liquid wastes in a controlled area.
- 4. Containment must be labeled, sized and placed appropriately for the needs of site. 5. Prevent the discharge of soaps, solvents, detergents and other liquid wastes from

- Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot
- offset is not attainable, provide relocation of portable toilet behind silt fence or place on a gravel pad and surround with sand bags. Provide staking or anchoring of portable toilets during periods of high winds or in high
- Monitor portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace with properly operating unit.

EARTHEN STOCKPILE MANAGEMENT

- Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably available.
- Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile
- Provide stable stone access point when feasible
- 4. Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.

ABOVE GRADE WASHOUT STRUCTURE BELOW GRADE WASHOUT STRUCTURE

CONCRETE WASHOUTS

- Do not discharge concrete or cement slurry from the site.
- 2. Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.
- Manage washout from mortar mixers in accordance with the above item and in addition place the mixer and associated materials on impervious barrier and within lot perimeter silt fence.
- Install temporary concrete washouts per local requirements, where applicable. If ar alternate method or product is to be used, contact your approval authority for review and approval. If local standard details are not available, use one of the two
- types of temporary concrete washouts provided on this detail. Do not use concrete washouts for dewatering or storing defective curb or sidewalk sections. Stormwater accumulated within the washout may not be pumped into or discharged to the storm drain system or receiving surface waters. Liquid waste must
- be pumped out and removed from project. Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum, install protection of storm drain inlet(s) closest to the washout which could receive
- spills or overflow. Locate washouts in an easily accessible area, on level ground and install a stone entrance pad in front of the washout. Additional controls may be required by the
- approving authority Install at least one sign directing concrete trucks to the washout within the project limits. Post signage on the washout itself to identify this location.
- Remove leavings from the washout when at approximately 75% capacity to limit overflow events. Replace the tarp, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary products, follow manufacturer's instructions.
- 10. At the completion of the concrete work, remove remaining leavings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout

HERBICIDES, PESTICIDES AND RODENTICIDES

- Store and apply herbicides, pesticides and rodenticides in accordance with label
- Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.
- Do not store herbicides, pesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground water
- or surface water. If a spill occurs, clean area immediately. Do not stockpile these materials onsite.

HAZARDOUS AND TOXIC WASTE

- Create designated hazardous waste collection areas on-site.
- Place hazardous waste containers under cover or in secondary containment.
- Do not store hazardous chemicals, drums or bagged materials directly on the ground.

NCG01 GROUND STABILIZATION AND MATERIALS HANDLING

EFFECTIVE: 04/01/19

SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION A: SELF-INSPECTION

Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection personnel to be in jeopardy, the inspection may be delayed until the next business day on which it is safe to perform the inspection. In addition, when a storm event of equal to or greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be performed upon the commencement of the next business day. Any time when inspections were delayed shall be noted in the Inspection Record.

Inspect	Frequency (during normal business hours)	Inspection records must include:
(1) Rain gauge maintained in good working order	Daily	Daily rainfall amounts. If no daily rain gauge observations are made during weekend or holiday periods, and no individual-day rainfall information is availab record the cumulative rain measurement for those un-attended day (and this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as "zero." The permittee may use another rain-monitoring device approved by the Division.
(2) E&SC Measures	At least once per 7 calendar days and within 24 hours of a rain event > 1.0 inch in 24 hours	1. Identification of the measures inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Indication of whether the measures were operating properly, 5. Description of maintenance needs for the measure, 6. Description, evidence, and date of corrective actions taken.
(3) Stormwater discharge outfalls (SDOs)	At least once per 7 calendar days and within 24 hours of a rain event > 1.0 inch in 24 hours	1. Identification of the discharge outfalls inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration, 5. Indication of visible sediment leaving the site, 6. Description, evidence, and date of corrective actions taken.
(4) Perimeter of site	At least once per 7 calendar days and within 24 hours of a rain event > 1.0 inch in 24 hours	If visible sedimentation is found outside site limits, then a record of the following shall be made: 1. Actions taken to clean up or stabilize the sediment that has left the site limits, 2. Description, evidence, and date of corrective actions taken, and 3. An explanation as to the actions taken to control future releases.
(5) Streams or wetlands onsite or offsite (where accessible)	At least once per 7 calendar days and within 24 hours of a rain event > 1.0 inch in 24 hours	If the stream or wetland has increased visible sedimentation or a stream has visible increased turbidity from the construction activity then a record of the following shall be made: 1. Description, evidence and date of corrective actions taken, and 2. Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item (2)(a) of this permit of this permit.
(6) Ground stabilization measures	After each phase of grading	The phase of grading (installation of perimeter E&SC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover). Documentation that the required ground stabilization measures have been provided within the required timeframe or an assurance that they will be provided as soon as possible.

NOTE: The rain inspection resets the required 7 calendar day inspection requirement.

SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING 1. E&SC Plan Documentation

The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&SC plan shall be documented in the manner described:

Item to Document	Documentation Requirements
(a) Each E&SC Measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&SC Plan.	Initial and date each E&SC Measure on a copy of the approved E&SC Plan or complete, date and sign an inspection report that lists each E&SC Measure shown on the approved E&SC Plan. This documentation is required upon the initial installation of the E&SC Measures or if the E&SC Measures are modified after initial installation.
(b) A phase of grading has been completed.	Initial and date a copy of the approved E&SC Plan or complete, date and sign an inspection report to indicate completion of the construction phase.
(c) Ground cover is located and installed in accordance with the approved E&SC Plan.	Initial and date a copy of the approved E&SC Plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.
(d) The maintenance and repair requirements for all E&SC Measures have been performed.	Complete, date and sign an inspection report.
(e) Corrective actions have been taken to E&SC Measures.	Initial and date a copy of the approved E&SC Plan or complete, date and sign an inspection report to indicate th completion of the corrective action.

2. Additional Documentation

In addition to the E&SC Plan documents above, the following items shall be kept on the

- and available for agency inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:
- (a) This general permit as well as the certificate of coverage, after it is received.
- (b) Records of inspections made during the previous 30 days. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.
- c) All data used to complete the Notice of Intent and older inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING 1. Occurrences that must be reported

- Permittees shall report the following occurrences:
- (a) Visible sediment deposition in a stream or wetland.

(b) Oil spills if:

- They are 25 gallons or more,
- They are less than 25 gallons but cannot be cleaned up within 24 hours,
- They cause sheen on surface waters (regardless of volume), or
- They are within 100 feet of surface waters (regardless of volume). (a) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA
- (b) Anticipated bypasses and unanticipated bypasses.

(Ref: 40 CFR 302.4) or G.S. 143-215.85.

(c) Noncompliance with the conditions of this permit that may endanger health or the environment.

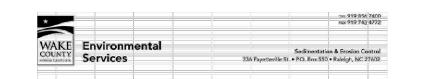
2. Reporting Timeframes and Other Requirements

After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Division's Emergency Response personnel at (800) 662-7956, (800) 858-0368 or (919) 733-3300.

Occurrence	Reporting Timeframes (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis. If the stream is named on the NC 303(d) list as impaired for sediment-related causes, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions.
(b) Oil spills and release of hazardous substances per Item 1(b)-(c) above	Within 24 hours, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.
(c) Anticipated bypasses [40 CFR 122.41(m)(3)]	• A report at least ten days before the date of the bypass, if possible. The report shall include an evaluation of the anticipated quality and effect of the bypass.
(d) Unanticipated bypasses [40 CFR 122.41(m)(3)]	 Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that includes an evaluation of the quality and effect of the bypass.
(e) Noncompliance with the conditions of this permit that may endanger health or the environment[40 CFR 122.41(I)(7)]	Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. [40 CFR 122.41(I)(6). Division staff may waive the requirement for a written report on a case-by-case basis.

NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

EFFECTIVE: 04/01/19



Soil stockpiles shall be located on the approved plan and shall adhere to the

- a. A 25-foot temporary maintenance and access easement shall be shown around all proposed stockpiles (erosion control measures surrounding the stockpile shall be shown at the outer limit of this easement) b. Stockpile footprints shall be setback a minimum of 25' from adjacent
- c. A note shall be provided on the approved plan that stockpile height shall
- Stockpile slopes shall be 2:1 or flatter.
- e. Approved BMPs shall be shown on a plan to control any potential sediment loss from a stockpile.

g. Any concentrated flow likely to affect the stockpile shall be diverted to an

- 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
- approved BMP. h. Off-site spoil or borrow areas must be in compliance with Wake County UDO and State Regulations. All spoil areas over an acre are required to Wake County of any offsite disposal of soil, prior to disposal. Fill of FEMA Floodways and Non-encroachment Areas are prohibited except as otherwise provided by subsection 14-19-2 of the Wake County Unified

Development Ordinance (certifications and permits required).

Maintenance Requirements to be Noted on the Plan i. 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 j. If a stockpile is to remain for future use after the project is complete (builders, etc.), the financial responsible party must notify Wake County
- of a new responsible party for that stockpile. k. The approved plan shall provide for the use of staged seeding and mulching on a continual basis while the stockpile is in use. 1. Establish and maintain a vegetative buffer at the toe of the slope (where

Seeding Specifications

	equired Ground Stabi	ization 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 not steeper than 2:1, 14 days ar allowed
(d) Slopes 3:1 to 4:1	14	-7 days for slopes greater than 3 length and with slopes steeper t -7 days for perimeter dikes, swa ditches, perimeter slopes and H Zones: -10 days for Falls Lake Watershe
(e) Areas with slopes- flatter than 4:1	14	-7 days for perimeter dikes, swa ditches, perimeter slopes and Hi -10 days for Falls Lake Watershe there is zero slope.
practicable but in no case I activity. Temporary groun	onger than 90 calend d stabilization shall be	ment ground stabilization as soon ar days after the last land disturb a maintained in a manner to rend permanent ground stabilization is
Stabilize the ground suffici techniques in the table be Temporary Stab	ently so that rain will low: ilization	not dislodge the soil. Use one of
techniques in the table be	ently so that rain will low: Weation ered with straw or • 1	

- 1. Chisel compacted areas and spread topsoil three inches deep over adverse
- Rip the entire area to six inches deep.
- 4. Apply agricultural lime, fertilizer and superphosphate uniformly and mix with soil (see mixture below)
- 6. Seed on a freshly prepared seedbed and cover seed lightly with seeding equipment or cultipack after seeding.

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, re-

2 tons/acre – small grain straw

Asphalt emulsion at 400 gals/acre

(Sorghum-Sudan Hybrids)

maintenance treatment and fertilization after permanent cover is established. Agricultural Limestone 2 tons/acre (3 tons/acre in clay soils)

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Date	Туре	Planting Rate
Aug 15- Nov 1	Tall Fescue	300 lbs/acre
Nov 1– Mar 1	Tall Fescue & Abruzzi Rye	300 lbs/acre
Mar 1– Apr 15	Tall Fescue	300 lbs/acre
•	Hulled Common Bermudagrass	25 lbs/acre
hd 4		

Date	Туре	Planting Rate
Mar 1– Jun 1	Sericea Lespedeza (scarified) and use the following combinations:	50 lbs/acre (Sericea Lespede
Mar 1– Apr 15	Add Tall Fescue	120 lbs/acre
Mar 1– Jun 30	Or add Weeping Love grass	10 lbs/acre

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

25 lbs/acre

*** 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

NPDES Stormwater Discharge Permit for Construction Activities (NCGO1 - 4/1/19) NCDEQ/Division of Energy, Mineral and Land Resources

		bilization Timeframes	
Site Area Description	Stabilize within to many calendar days after ceasing land disturbance	Timetrame 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 4:17 days for perimeter dikes, swales, dikthes, perimeter slopes and HQW Zones: -10 days for Falls Lake Watershed.	
		-7 days for perimeter dikes, swales,	
round stabilization shall t	e converted to per	ditches, perimeter slopes and HQW Zone -10 days for Falls Lake Watershied unless there is zero slope ruction activities, any areas with temporary manent ground stabilization as soon as	
flatter than 4:1 lote: After the permanent round stabilization shall be racticable but in no case civity. Temporary ground urface stable against accessions.	cessation of const e converted to per onger than 90 cale distabilization shall lerated erosion uni SPECIFICATION ently so that rain wow:	-10 days for Falls Lake Watershied unless there is zero slope. ruction activities, any areas with temporary	
Institer, than 4:1 lote: After the permanent pound stabilization shall to racticable but in no case citivity. Temporary groundrace stable against accessible against accessibilities the ground sufficient highes in the table be	cessation of const e converted to per onger than 90 cale d stabilization shall lerated erosion uni SPECIFICATION entry so that rain wow:	-30 may for Falls Lake Watershed unless there is zero slope ruction activities, any areas with temporary- manent ground stabilization as soon as noter days after the last land disturbing be maintained in a manner to render the permanent ground stabilization is schewed ill not dislodge the soil. Use one of the	

soil conditions, if available.

- 3. Remove all loose rock, roots and other obstructions, leaving surface reasonably smooth and uniform
- 5. Continue tillage until a well-pulverized, firm, reasonably uniform seedbed is prepared four to six inches deep.
- 7. Mulch immediately after seeding and anchor mulch.

establish following the original lime, fertilizer and seeding rates. 9. Consult Wake County Soil & Water or NC State Cooperative Extension on

1,000 lbs/acre - 10-10-10 500 lbs/acre – 20% analysis

Hybrids***

Jun 30 Bermudagrass

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Date	Туре	Planting Rate	
Aug 15- Nov 1	Tall Fescue	300 lbs/acre	
Nov 1– Mar 1	Tall Fescue & Abruzzi Rye	300 lbs/acre	
Mar 1– Apr 15	Tall Fescue	300 lbs/acre	
	Hulled Common Bermudagrass	25 lbs/acre	
Jul 1– Aug 15	Tall Fescue AND Browntop Millet or Sorghum-Sudan	125 lbs/acre (Tall Fescue); 35 lbs/acre (Browntop Millet); 30 lbs/acr	

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

Date	Туре	Planting Rate
Mar 1– Jun 1	Sericea Lespedeza (scarified) and use the following combinations:	50 lbs/acre (Sericea Lespedeza
Mar 1– Apr 15	Add Tall Fescue	120 lbs/acre
Mar 1– Jun 30	Or add Weeping Love grass	10 lbs/acre
Mar 1–	Or add Hulled Common	25 lhe/acre

70 lbs/acre (Sericea Lespedeza); 120 unscarified) AND Tall lbs/acre (Tall Fescue)

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

> Project Manager: Drawn Bv:

> > Checked By:

REVISIONS:

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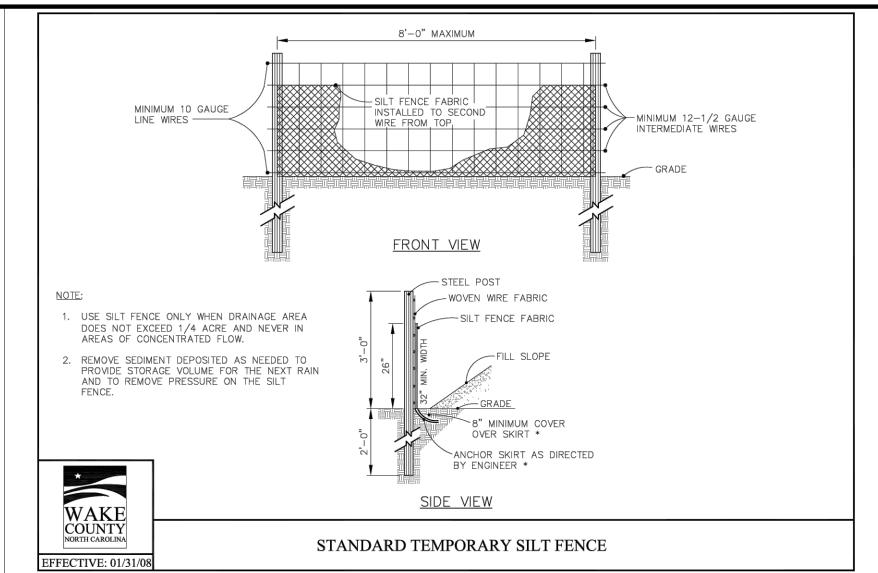
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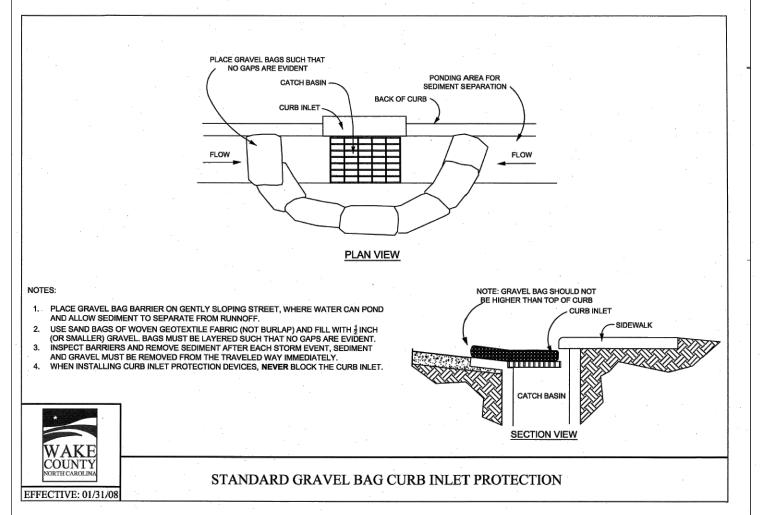
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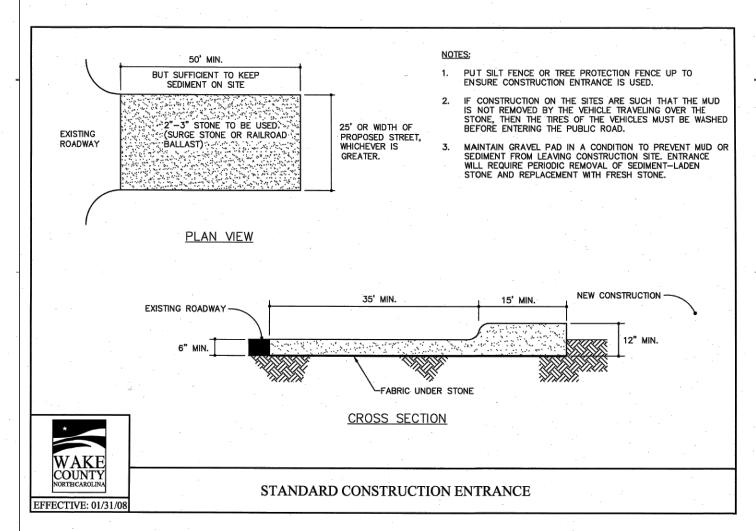
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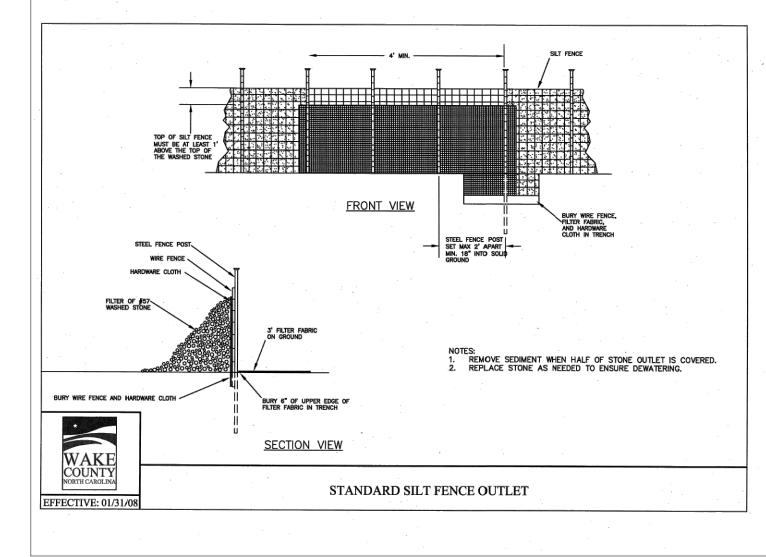
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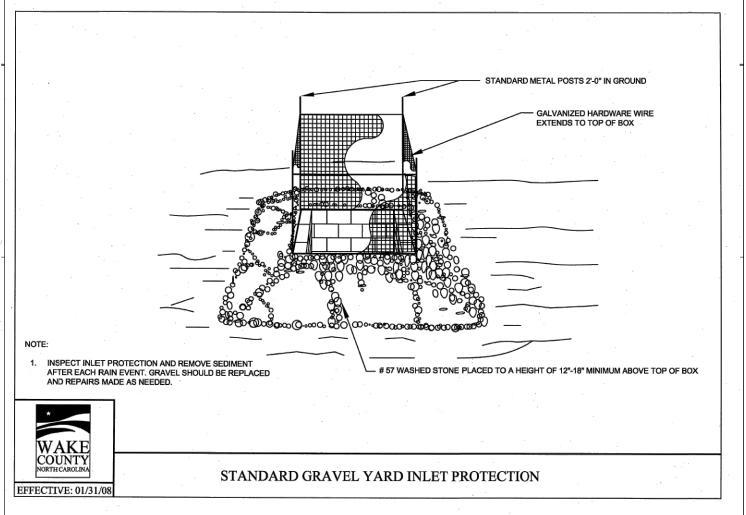
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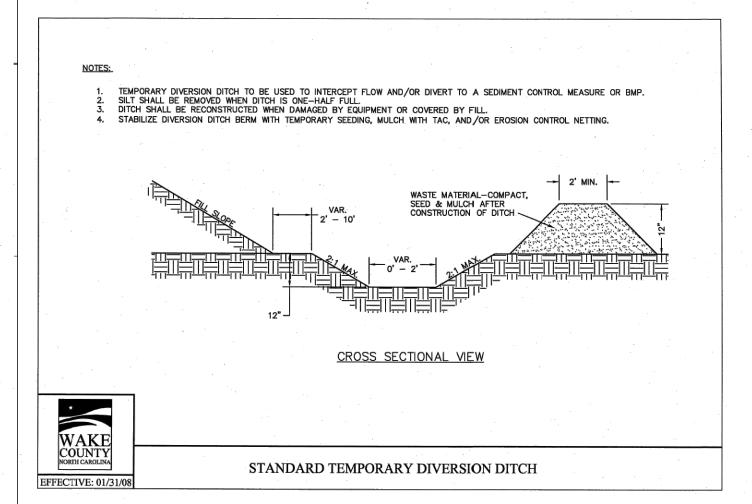


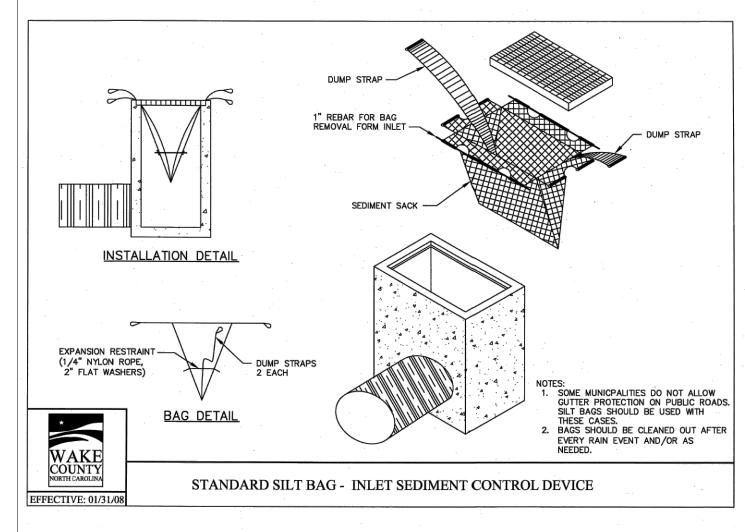


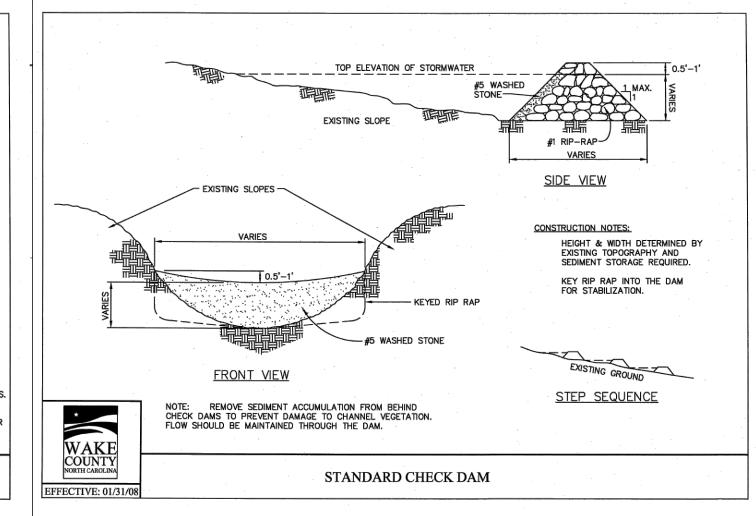












Vegetated Swale Design				
Project:	Wallbroo			
Location:	Rolesville, Wake County, N			

ī	Device ID	Device Type	Add'l Flow (cfs)			•					Length (ft)	Width		Slope	Depth		Slope (ft/ft)	Area	Wetted Perimeter (ft)	•	Velocity		Qa>Qreq?	$ au$ (lbs/ft 2)	Liner Type	Allowable Shear Stress, $ au$ (lbs/ft 2)
	TDD 1	T Diversity		0.50	-	7.10		1.00	205	201.5	170	1	2	2	0.07	0.020	0.01000	2.77	7.20	0.52	0.40	1.00	V	1 100007027	N. Am. Corona Sharan Landa	4.55
	TDD-1 TDD-2	Temporary Diversion Temporary Diversion	0	0.50 0.37	5	7.18 7.18	0.5	1.80	395.5	391.5 391.5	176 205	1	3	3	0.97	0.020	0.01989 0.01951	3.77	7.30 7.25	0.52 0.44	0.48 0.42	1.80	Yes Yes	1.199097027 1.065303643	N. Am. Green; Straw; 1 nets N. Am. Green: Straw: 1 nets	1.55 1.55

*NOAA Atlas 14, NEUSE 2 NE Station, 10-yr 5-min duration intensity

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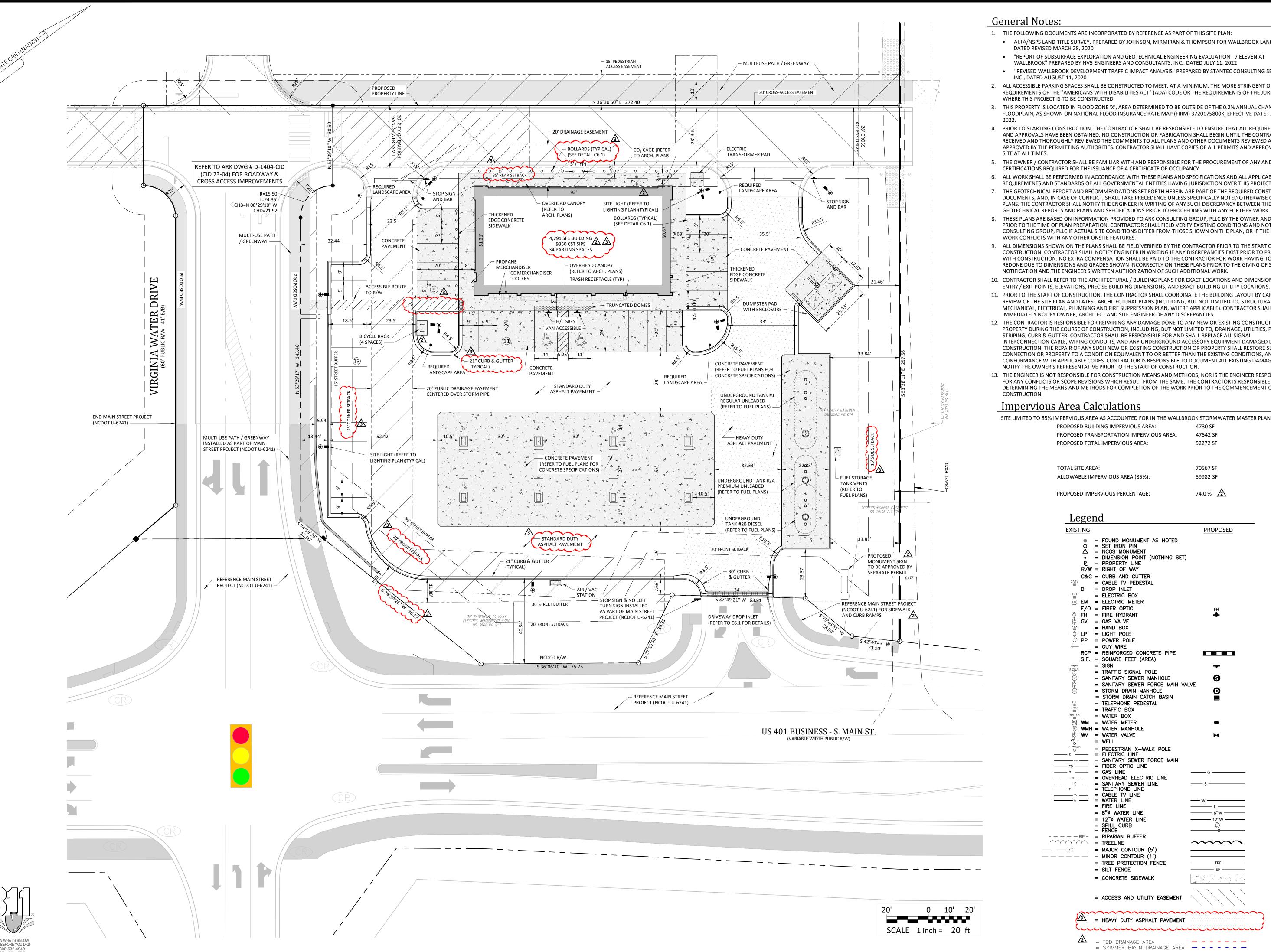
DETAIL

CONTROL

EROSION

Project Manager: BCF
Drawn By: DLC/TGN
Checked By: TGN
Project Number: 22049
Drawing Number: D-1404-SDP

e: May 1, 2023



General Notes:

- 1. THE FOLLOWING DOCUMENTS ARE INCORPORATED BY REFERENCE AS PART OF THIS SITE PLAN:
- ALTA/NSPS LAND TITLE SURVEY, PREPARED BY JOHNSON, MIRMIRAN & THOMPSON FOR WALLBROOK LANDCO, LLC. DATED REVISED MARCH 28, 2020
- "REPORT OF SUBSURFACE EXPLORATION AND GEOTECHNICAL ENGINEERING EVALUATION 7 ELEVEN AT WALLBROOK" PREPARED BY NV5 ENGINEERS AND CONSULTANTS, INC., DATED JULY 11, 2022
- "REVISED WALLBROOK DEVELOPMENT TRAFFIC IMPACT ANALYSIS" PREPARED BY STANTEC CONSULTING SERVICES,
- 2. ALL ACCESSIBLE PARKING SPACES SHALL BE CONSTRUCTED TO MEET, AT A MINIMUM, THE MORE STRINGENT OF THE REQUIREMENTS OF THE "AMERICANS WITH DISABILITIES ACT" (ADA) CODE OR THE REQUIREMENTS OF THE JURISDICTION
- 3. THIS PROPERTY IS LOCATED IN FLOOD ZONE 'X', AREA DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN, AS SHOWN ON NATIONAL FLOOD INSURANCE RATE MAP (FIRM) 3720175800K, EFFECTIVE DATE: JULY 19,
- 4. PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED THE COMMENTS TO ALL PLANS AND OTHER DOCUMENTS REVIEWED AND APPROVED BY THE PERMITTING AUTHORITIES. CONTRACTOR SHALL HAVE COPIES OF ALL PERMITS AND APPROVALS ON
- 5. THE OWNER / CONTRACTOR SHALL BE FAMILIAR WITH AND RESPONSIBLE FOR THE PROCUREMENT OF ANY AND ALL CERTIFICATIONS REQUIRED FOR THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
- 6. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND ALL APPLICABLE
- REQUIREMENTS AND STANDARDS OF ALL GOVERNMENTAL ENTITIES HAVING JURISDICTION OVER THIS PROJECT. 7. THE GEOTECHNICAL REPORT AND RECOMMENDATIONS SET FORTH HEREIN ARE PART OF THE REQUIRED CONSTRUCTION DOCUMENTS, AND, IN CASE OF CONFLICT, SHALL TAKE PRECEDENCE UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING OF ANY SUCH DISCREPANCY BETWEEN THE
- 8. THESE PLANS ARE BASED ON INFORMATION PROVIDED TO ARK CONSULTING GROUP, PLLC BY THE OWNER AND OTHERS PRIOR TO THE TIME OF PLAN PREPARATION. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND NOTIFY ARK CONSULTING GROUP, PLLC IF ACTUAL SITE CONDITIONS DIFFER FROM THOSE SHOWN ON THE PLAN, OR IF THE PROPOSED WORK CONFLICTS WITH ANY OTHER ONSITE FEATURES.
- 9. ALL DIMENSIONS SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER IN WRITING IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO DIMENSIONS AND GRADES SHOWN INCORRECTLY ON THESE PLANS PRIOR TO THE GIVING OF SUCH NOTIFICATION AND THE ENGINEER'S WRITTEN AUTHORIZATION OF SUCH ADDITIONAL WORK.
- 10. CONTRACTOR SHALL REFER TO THE ARCHITECTURAL / BUILDING PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF ENTRY / EXIT POINTS, ELEVATIONS, PRECISE BUILDING DIMENSIONS, AND EXACT BUILDING UTILITY LOCATIONS.
- 11. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE THE BUILDING LAYOUT BY CAREFUL REVIEW OF THE SITE PLAN AND LATEST ARCHITECTURAL PLANS (INCLUDING, BUT NOT LIMITED TO, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND FIRE SUPPRESSION PLAN, WHERE APPLICABLE). CONTRACTOR SHALL IMMEDIATELY NOTIFY OWNER, ARCHITECT AND SITE ENGINEER OF ANY DISCREPANCIES.
- 12. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE DONE TO ANY NEW OR EXISTING CONSTRUCTION OR PROPERTY DURING THE COURSE OF CONSTRUCTION, INCLUDING, BUT NOT LIMITED TO, DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURB & GUTTER. CONTRACTOR SHALL BE RESPONSIBLE FOR AND SHALL REPLACE ALL SIGNAL INTERCONNECTION CABLE, WIRING CONDUITS, AND ANY UNDERGROUND ACCESSORY EQUIPMENT DAMAGED DURING CONSTRUCTION. THE REPAIR OF ANY SUCH NEW OR EXISTING CONSTRUCTION OR PROPERTY SHALL RESTORE SUCH CONNECTION OR PROPERTY TO A CONDITION EQUIVALENT TO OR BETTER THAN THE EXISTING CONDITIONS, AND IN CONFORMANCE WITH APPLICABLE CODES. CONTRACTOR IS RESPONSIBLE TO DOCUMENT ALL EXISTING DAMAGE AND NOTIFY THE OWNER'S REPRESENTATIVE PRIOR TO THE START OF CONSTRUCTION.
- 13. THE ENGINEER IS NOT RESPONSIBLE FOR CONSTRUCTION MEANS AND METHODS, NOR IS THE ENGINEER RESPONSIBLE FOR ANY CONFLICTS OR SCOPE REVISIONS WHICH RESULT FROM THE SAME. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE MEANS AND METHODS FOR COMPLETION OF THE WORK PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

Impervious Area Calculations

SITE LIMITED TO 85% IMPERVIOUS AREA AS ACCOUNTED FOR IN THE WALLBROOK STORMWATER MASTER PLAN PROPOSED BUILDING IMPERVIOUS AREA: 4730 SF

47542 SF PROPOSED TRANSPORTATION IMPERVIOUS AREA: PROPOSED TOTAL IMPERVIOUS AREA: 52272 SF

TOTAL SITE AREA: 70567 SF ALLOWABLE IMPERVIOUS AREA (85%): 59982 SF

PROPOSED IMPERVIOUS PERCENTAGE: 74.0 % /2

EXISTING		PROPOSED
		11101 0325
• •	= FOUND MONUMENT AS NOTED	
	= SET IRON PIN = NCGS MONUMENT	
	= DIMENSION POINT (NOTHING SET)	
	= PROPERTY LINE	
	= RIGHT OF WAY	
C&G =	= CURB AND GUTTER	
	= CABLE TV PEDESTAL	
DI =	= DROP INLET	
	= ELECTRIC BOX	
	= ELECTRIC METER	
	= FIBER OPTIC	FH
	= FIRE HYDRANT	•
' '	= GAS_VALVE	
	= HAND BOX	
	= LIGHT POLE	
·	= POWER POLE	
	= GUY WIRE = REINFORCED CONCRETE PIPE	
	= SQUARE FEET (AREA)	
	= SIGN	_
SIGNAL _	= TRAFFIC SIGNAL POLE	-
(SS) =	= SANITARY SEWER MANHOLE	•
	= SANITARY SEWER FORCE MAIN VALV	Æ
(SD) =	= STORM DRAIN MANHOLE	O
:	= STORM DRAIN CATCH BASIN	Ě
	= TELEPHONE PEDESTAL	
_	= TRAFFIC BOX	
_	= WATER BOX	
~	= WATER METER	
	= WATER MANHOLE	.
111	= WATER VALVE	\bowtie
O - WALK	= WELL	
⊙ =	= PEDESTRIAN X-WALK POLE = ELECTRIC LINE	
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	= TREELINE	~~~~
	= MAJOR CONTOUR (5')	
	= MINOR CONTOUR (1')	
	= TREE PROTECTION FENCE	TPF
=	= SILT FENCE	SF —

= ACCESS AND UTILITY EASEMENT = HEAVY DUTY ASPHALT PAVEMENT = TDD DRAINAGE AREA _ _ _ _ _ _ _ = SKIMMER BASIN DRAINAGE AREA ------

= CONCRETE SIDEWALK

21 4 21

ROSLAND

REVISIONS:

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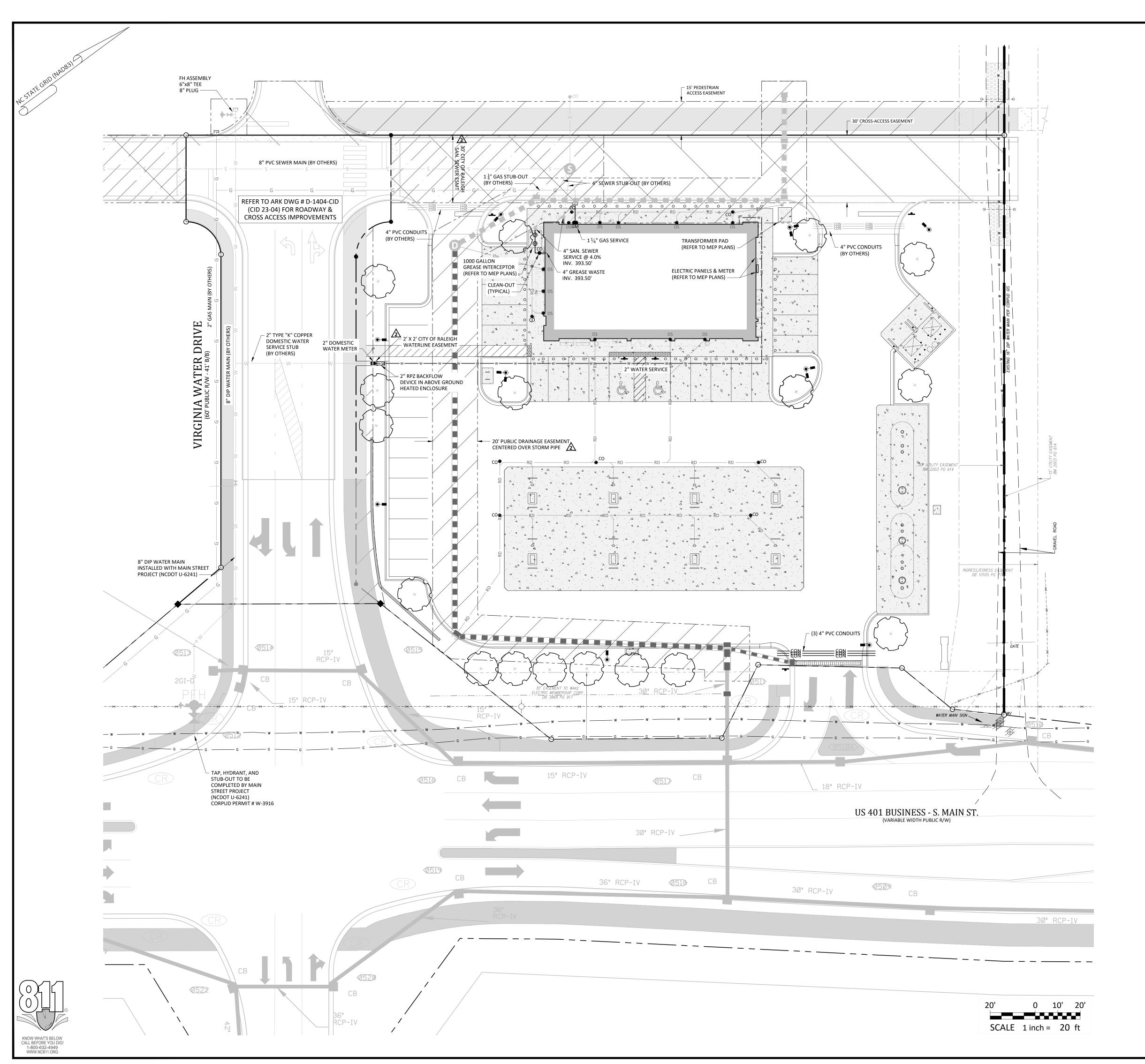
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CONSULTIN GROUP PLLC



Project Manager: Drawn Bv: Checked By: Drawing Number: D-1404-SDP

May 1, 2023



- 1. ALL MATERIALS & CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH CITY OF RALEIGH DESIGN STANDARDS, DETAILS & SPECIFICATIONS (REFERENCE: CORPUD
- a) A DISTANCE OF 100' SHALL BE MAINTAINED BETWEEN SANITARY SEWER & ANY PRIVATE OR PUBLIC WATER SUPPLY SOURCE SUCH AS AN IMPOUNDED RESERVOIR USED AS A SOURCE OF DRINKING WATER. IF ADEQUATE LATER SEPARATION CANNOT BE ACHIEVED, FERROUS SANITARY SEWER PIPE SHALL BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS. HOWEVER, THE MINIMUM SEPARATION SHALL NOT BE LESS THAN 25' FROM A PRIVATE WELL OR 50' FROM A PUBLIC WELL.
- BETWEEN UTILITIES SHALL BE 10'. IF THIS SEPARATION CONNOT BE MAINTAINED DUE TO EXISTING CONDITIONS, THE VARIATION ALLOWED IS THE WATER MAIN IN A SEPARATE TRENCH WITH THE ELEVATION OF THE WATER MAIN AT LEAST 18" ABOVE THE TOP OF THE SEWER & MUST BE APPROVED BY THE PUBLIC UTILITIES DIRECTOR.
- c) WHERE IT IS IMPOSSIBLE TO OBTAIN PROPER SEPARATION, OR ANYTIME A SANITARY SEWER PASSES OVER A WATER MAIN, DIP MATERIALS OR STEEL ENCASEMENT EXTENDED 10' ON EACH SIDE OF CROSSING MUST BE SPECIFIED & INSTALLED TO
- d) 5.0' MINIMUM HORIZONTAL SEPARATION IS REQUIRED BETWEEN ALL SANITARY SEWER & STORM SEWER FACILITIES, UNLESS DIP MATERIAL IS SPECIFIED FOR SANITARY SEWER.
- 18" MIN. VERTICAL SEPARATION REQUIRED.
- 3. ANY NECESSARY FIELD REVISIONS ARE SUBJECT TO REVIEW & APPROVAL OF AN AMENDED PLAN &/OR PROFILE BY CORPUD 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
- 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 DEVELOPERS RESPONSIBILITY TO ABANDON OR REMOVE EXISTING WATER & DIRECTED BY CORPUD. THIS INCLUDES ABANDONING TAP AT MAIN & REMOVAL OF
- 7. INSTALL PVC WATER SERVICES WITH METERS LOCATED AT ROW OR WITHIN A 2' X 2' WATERLINE EASEMENT IMMEDIATELY ADJACENT.
- ROW OR EASEMENT LINE & SPACED EVERY 75 LINEAR FEET MAXIMUM.
- 10. ALL ENVIRONMENTAL PERMITS APPLICABLE TO THE PROJECT MUST BE OBTAINED FROM IMPACTS PRIOR TO CONSTRUCTION.
- 11. NCDOT / RAILROAD ENCROACHMENT AGREEMENTS ARE REQUIRED FOR ANY UTILITY WORK (INCLUDING MAIN EXTENSIONS & SERVICE TAPS) WITHIN STATE OR RAILROAD
- 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 NC. THESE GUIDELINES ARE THE MINIMUM REQUIREMENTS. THE DEVICES SHALL MEET AMERICAN SOCIETY 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 ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS OR THE LOCAL CROSS-CONNECTION CONTROL PROGRAM, WHICHEVER IS MORE STRINGENT. CONTACT JOANIE HARTLEY AT (919) 996-5923 OR JOANIE.HARTLEY@RALEIGHNC.GOV FOR MORE INFORMATION.
- 15. THE PROPOSED GREASE INTERCEPTOR SHALL BE APPROVED BY FOG@RALEIGHNC.GOV
 PRIOR TO ISSUANCE OF THE LITHITY CONNECTION SEED. PRIOR TO ISSUANCE OF THE UTILITY CONNECTION PERMIT.

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 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.

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Drawing Number: D-1404-SDP

22049

REVISIONS:

ROSLAND OUTHEAST

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CONSULTIN GROUP, PLLC

May 1, 2023

Project Manager: Drawn By:

Checked By:

Project Number:

CORPUD Standard Utility Notes:

2. UTILITY SEPARATION REQUIREMENTS:

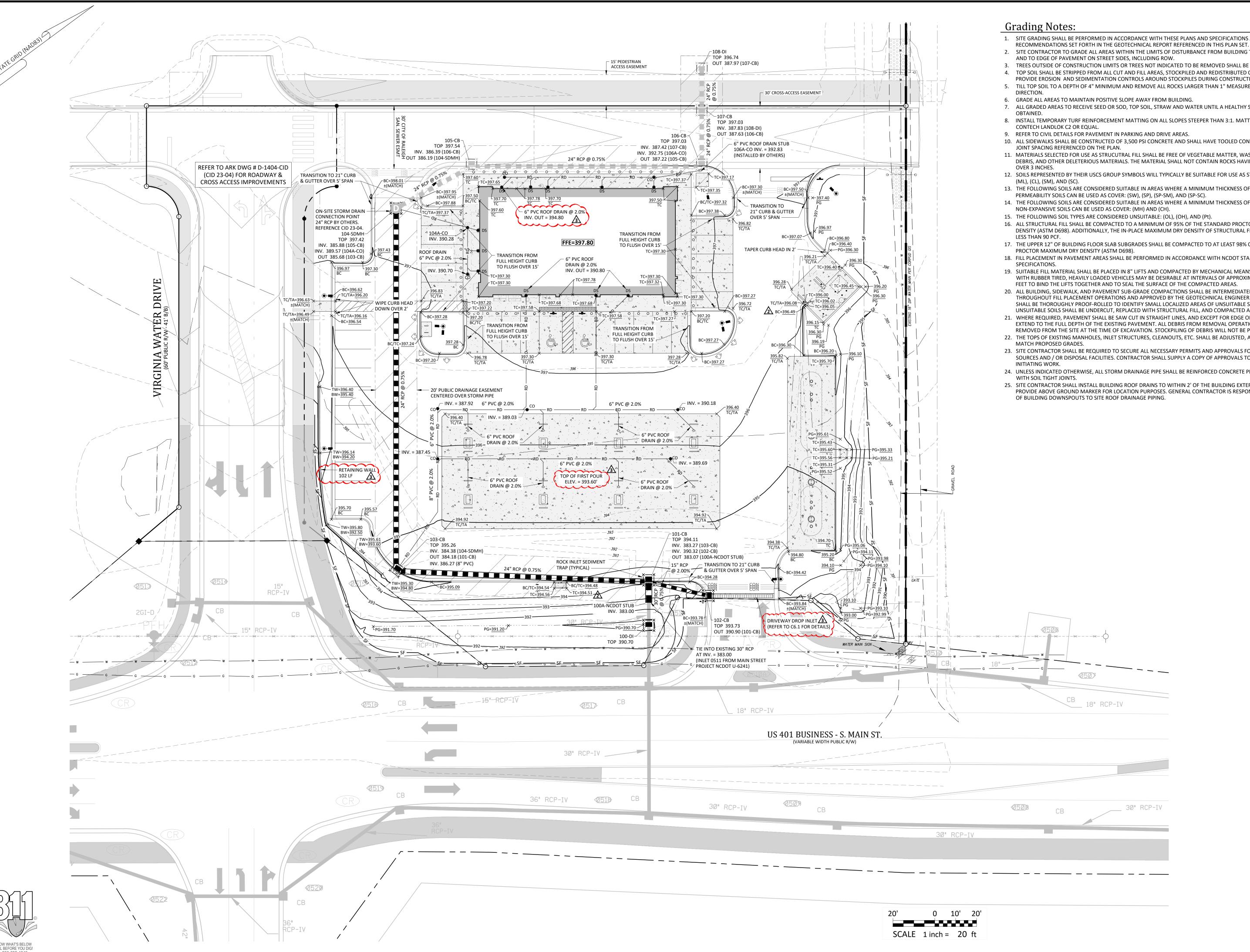
b) WHEN INSTALLING WATER &/OR SEWER MAINS, THE HORIZONTAL SEPARATION

WATERLINE SPECIFICATIONS.

- e) MAINTAIN 18" MIN. VERTICAL SEPARATION AT ALL WATER MAIN & 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

- SEWER SERVICES NOT BEING USED IN REDEVELOPMENT OF A SITE UNLESS OTHERWISE SERVIC FROM ROW OR EASEMENT PER CORPUD HANDBOOK PROCEDURE.
- 8. INSTALL PVC SEWER SERVICES @ 1.0% MINIMUM GRADE WITH CLEANOUTS LOCATED AT
- 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.
- NCDWQ, USACE &/OR FEMA FOR ANY RIPARIAN BUFFER, WETLAND &/OR FLOODPLAIN

- 14. THE PROPOSED 2" RPZ SHALL BE APPROVED BY CROSS.CONNECTION@RALEIGHNC.GOV PRIOR TO ISSUANCE OF THE UTILITY CONNECTION PERMIT. PRIOR TO ISSUANCE OF THE UTILITY CONNECTION PERMIT.



1. SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE

2. SITE CONTRACTOR TO GRADE ALL AREAS WITHIN THE LIMITS OF DISTURBANCE FROM BUILDING TO PROPERTY LINES

TREES OUTSIDE OF CONSTRUCTION LIMITS OR TREES NOT INDICATED TO BE REMOVED SHALL BE PROTECTED.

PROVIDE EROSION AND SEDIMENTATION CONTROLS AROUND STOCKPILES DURING CONSTRUCTION.

7. ALL GRADED AREAS TO RECEIVE SEED OR SOD, TOP SOIL, STRAW AND WATER UNTIL A HEALTHY STAND OF GRASS IS

8. INSTALL TEMPORARY TURF REINFORCEMENT MATTING ON ALL SLOPES STEEPER THAN 3:1. MATTING SHALL BE

10. ALL SIDEWALKS SHALL BE CONSTRUCTED OF 3,500 PSI CONCRETE AND SHALL HAVE TOOLED CONTROL JOINTS PER THE

11. MATERIALS SELECTED FOR USE AS STRUCUTRAL FILL SHALL BE FREE OF VEGETABLE MATTER, WASTE CONSTRUCTION DEBRIS, AND OTHER DELETERIOUS MATERIALS. THE MATERIAL SHALL NOT CONTAIN ROCKS HAVING A DIAMETER

12. SOILS REPRESENTED BY THEIR USCS GROUP SYMBOLS WILL TYPICALLY BE SUITABLE FOR USE AS STRUCTURAL FILL:

13. THE FOLLOWING SOILS ARE CONSIDERED SUITABLE IN AREAS WHERE A MINIMUM THICKNESS OF 3' OF LOW

14. THE FOLLOWING SOILS ARE CONSIDERED SUITABLE IN AREAS WHERE A MINIMUM THICKNESS OF 3' OF

16. ALL STRUCTURAL FILL SHALL BE COMPACTED TO A MINIMUM OF 95% OF THE STANDARD PROCTOR MAXIMUM DRY

17. THE UPPER 12" OF BUILDING FLOOR SLAB SUBGRADES SHALL BE COMPACTED TO AT LEAST 98% OF THE STANDARD

18. FILL PLACEMENT IN PAVEMENT AREAS SHALL BE PERFORMED IN ACCORDANCE WITH NCDOT STANDARD

19. SUITABLE FILL MATERIAL SHALL BE PLACED IN 8" LIFTS AND COMPACTED BY MECHANICAL MEANS. PROOFROLLING WITH RUBBER TIRED, HEAVILY LOADED VEHICLES MAY BE DESIRABLE AT INTERVALS OF APPROXIMATELY 2 VERTICAL FEET TO BIND THE LIFTS TOGETHER AND TO SEAL THE SURFACE OF THE COMPACTED AREAS.

THROUGHOUT FILL PLACEMENT OPERATIONS AND APPROVED BY THE GEOTECHNICAL ENGINEER. ALL SUB-GRADES SHALL BE THOROUGHLY PROOF-ROLLED TO IDENTIFY SMALL LOCALIZED AREAS OF UNSUITABLE SOILS. ALL

21. WHERE REQUIRED, PAVEMENT SHALL BE SAW CUT IN STRAIGHT LINES, AND EXCEPT FOR EDGE OF BUTT JOINTS, SHALL EXTEND TO THE FULL DEPTH OF THE EXISTING PAVEMENT. ALL DEBRIS FROM REMOVAL OPERATIONS SHALL BE

22. THE TOPS OF EXISTING MANHOLES, INLET STRUCTURES, CLEANOUTS, ETC. SHALL BE ADJUSTED, AS REQUIRED, TO

23. SITE CONTRACTOR SHALL BE REQUIRED TO SECURE ALL NECESSARY PERMITS AND APPROVALS FOR OFF SITE MATERIAL SOURCES AND / OR DISPOSAL FACILITIES. CONTRACTOR SHALL SUPPLY A COPY OF APPROVALS TO OWNER PRIOR TO

24. UNLESS INDICATED OTHERWISE, ALL STORM DRAINAGE PIPE SHALL BE REINFORCED CONCRETE PIPE (RCP) CLASS III

PROVIDE ABOVE GROUND MARKER FOR LOCATION PURPOSES. GENERAL CONTRACTOR IS RESPONSIBLE FOR TIE-INS

4. TOP SOIL SHALL BE STRIPPED FROM ALL CUT AND FILL AREAS, STOCKPILED AND REDISTRIBUTED OVER GRADED AREAS.

5. TILL TOP SOIL TO A DEPTH OF 4" MINIMUM AND REMOVE ALL ROCKS LARGER THAN 1" MEASURED IN LARGEST

DENSITY (ASTM D698). ADDITIONALLY, THE IN-PLACE MAXIMUM DRY DENSITY OF STRUCTURAL FILL SHOULD BE NO

20. ALL BUILDING, SIDEWALK, AND PAVEMENT SUB-GRADE COMPACTIONS SHALL BE INTERMEDIATELY TESTED

UNSUITABLE SOILS SHALL BE UNDERCUT, REPLACED WITH STRUCTURAL FILL, AND COMPACTED AS DESCRIBED ABOVE.

REMOVED FROM THE SITE AT THE TIME OF EXCAVATION. STOCKPILING OF DEBRIS WILL NOT BE PERMITTED.

25. SITE CONTRACTOR SHALL INSTALL BUILDING ROOF DRAINS TO WITHIN 2' OF THE BUILDING EXTERIOR WALL, CAP AND

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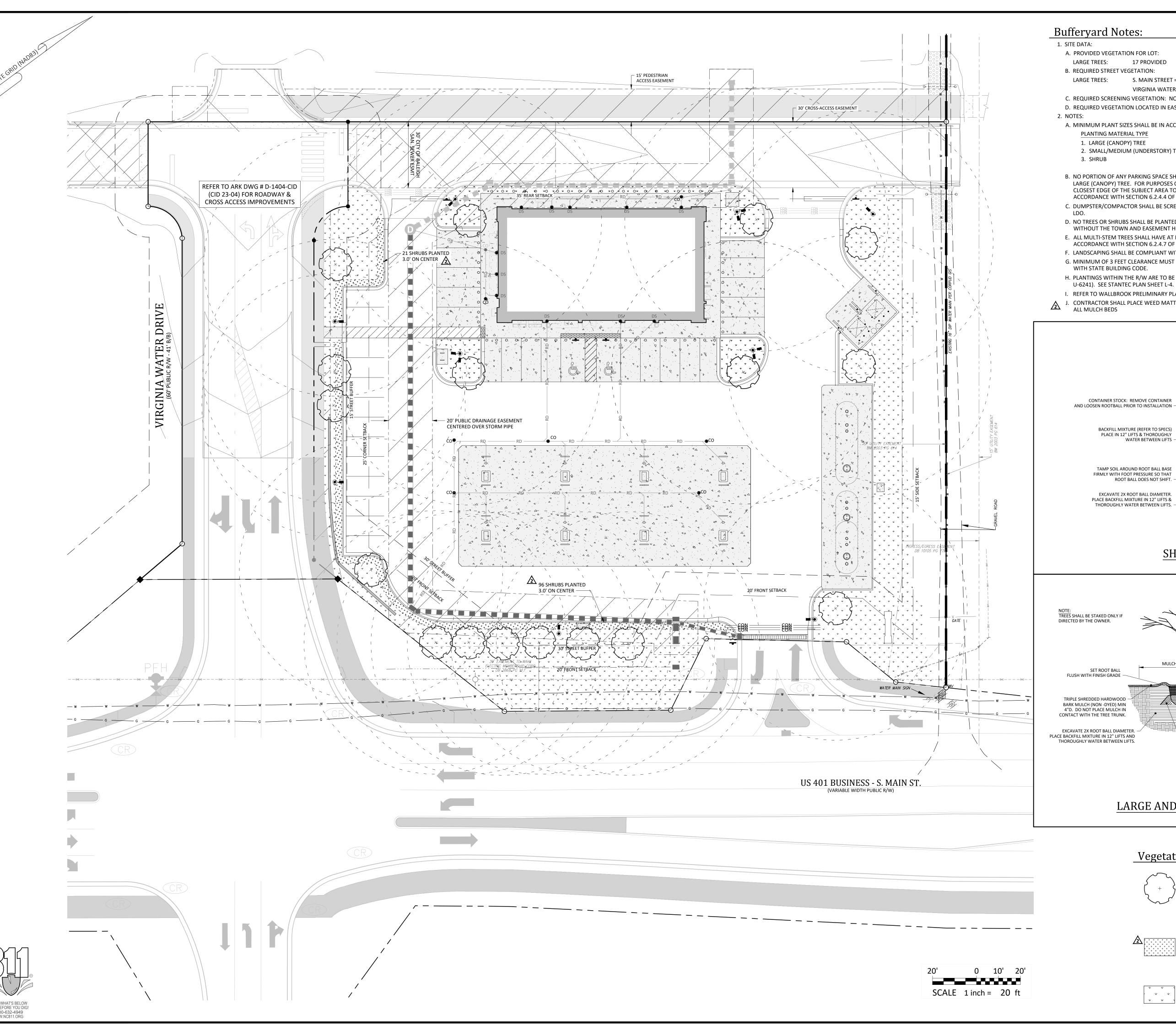
REVISIONS:

CROSLAND SOUTHEAST

CONSULTING GROUP, PLLC

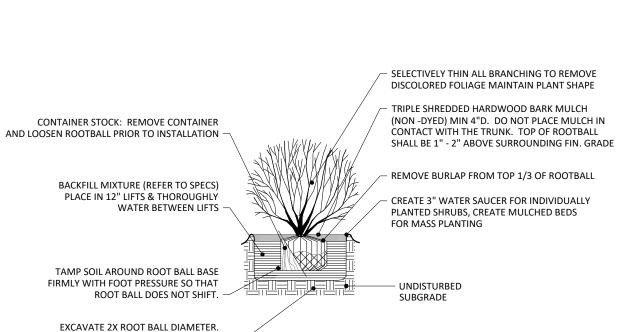
Project Manager: Checked By: Drawing Number: D-1404-SDP

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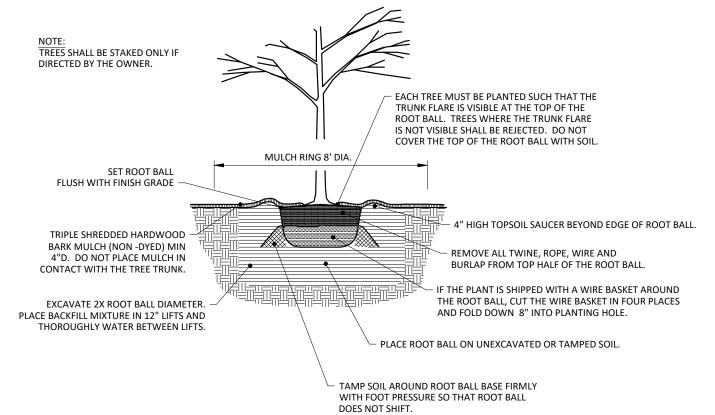
Bufferyard Notes:

- A. PROVIDED VEGETATION FOR LOT:
- LARGE TREES: 17 PROVIDED
- S. MAIN STREET = 260 LF / 40 * 1 TREE = 6.5 TREES (7 PROVIDED)
- VIRGINIA WATER DRIVE = 170 LF / 40 * 1 TREE = 4.25 TREES (4 PROVIDED)
- C. REQUIRED SCREENING VEGETATION: NONE D. REQUIRED VEGETATION LOCATED IN EASEMENTS: NONE
- A. MINIMUM PLANT SIZES SHALL BE IN ACCORDANCE WITH THE SECTION 6.2.4.3 OF THE LDO AS FOLLOWS:
- PLANTING MATERIAL TYPE MINIMUM PLANTING SIZE 1. LARGE (CANOPY) TREE 8' (HEIGHT AND 2" CALIPER
- 2. SMALL/MEDIUM (UNDERSTORY) TREE 8' (HEIGHT) AND 1" CALIPER 24" (HEIGHT) - EVERGREEN 18" (HEIGHT) - DECIDUOUS
- B. NO PORTION OF ANY PARKING SPACE SHALL BE LOCATED MORE THAN SIXTY (60) FEET FROM AN ON-SITE LARGE (CANOPY) TREE. FOR PURPOSES OF THIS SECTION, THE MEASUREMENT SHALL BE FROM THE CLOSEST EDGE OF THE SUBJECT AREA TO THE CENTER OF THE BASE OF THE CLOSEST QUALIFYING TREE IN ACCORDANCE WITH SECTION 6.2.4.4 OF THE LDO.
- C. DUMPSTER/COMPACTOR SHALL BE SCREENED ON 3 SIDES IN ACCORDANCE WITH SECTION 6.2.4.6 OF THE
- D. NO TREES OR SHRUBS SHALL BE PLANTED WITHIN SANITARY SEWER, WATERLINE OR ELECTRIC EASEMENTS
- WITHOUT THE TOWN AND EASEMENT HOLDER APPROVAL. E. ALL MULTI-STEM TREES SHALL HAVE AT LEAST THREE STALKS WITH A MINIMUM CALIPER OF 2.5" IN
- ACCORDANCE WITH SECTION 6.2.4.7 OF THE LDO. F. LANDSCAPING SHALL BE COMPLIANT WITH LDO SECTION 6.2.4
- G. MINIMUM OF 3 FEET CLEARANCE MUST BE MAINTAINED AROUND ALL FIRE HYDRANTS IN ACCORDANCE WITH STATE BUILDING CODE.
- H. PLANTINGS WITHIN THE R/W ARE TO BE INSTALLED AS PART OF THE MAIN STREET PROJECT (NCDOT U-6241). SEE STANTEC PLAN SHEET L-4.
- I. REFER TO WALLBROOK PRELIMINARY PLAT (PR 21-04 REV) FOR VEGETATION PRESERVATION IN THIS AREA.
- J. CONTRACTOR SHALL PLACE WEED MATTING AND METAL EDGING LOCATED AT THE BACK OF CURB AROUND
 ALL MULICH REDS ALL MULCH BEDS



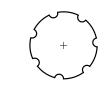
SHRUB PLANTING

NOT TO SCALE



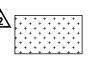
LARGE AND SMALL TREE PLANTING NOT TO SCALE

Vegetation Legend:



PROPOSED LARGE TREE (CANOPY) TOTAL QUANTITY = 17 CALIPER = 3"
HEIGHT = 12'
MATURE HEIGHT = 50' - 80'
COMMON NAME: RED MAPLE

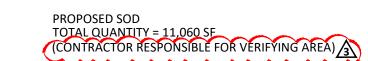
BOTANICAL NAME: ACER RUBRUM



PROPOSED SHRUB(S) TOTAL QUANTITY = 117 HEIGHT = 24" MATURE HEIGHT = 24" - 36"

COMMON NAME = GREY OWL EASTERN RED CEDAR

BOTANICAL NAME = JUNIPERUS VIRGINIANA 'GREY OWL'



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Drawing Number: D-1404-SDP

Project Manager:

Project Number:

Drawn By: Checked By:

22049

REVISIONS:

ROSLAND

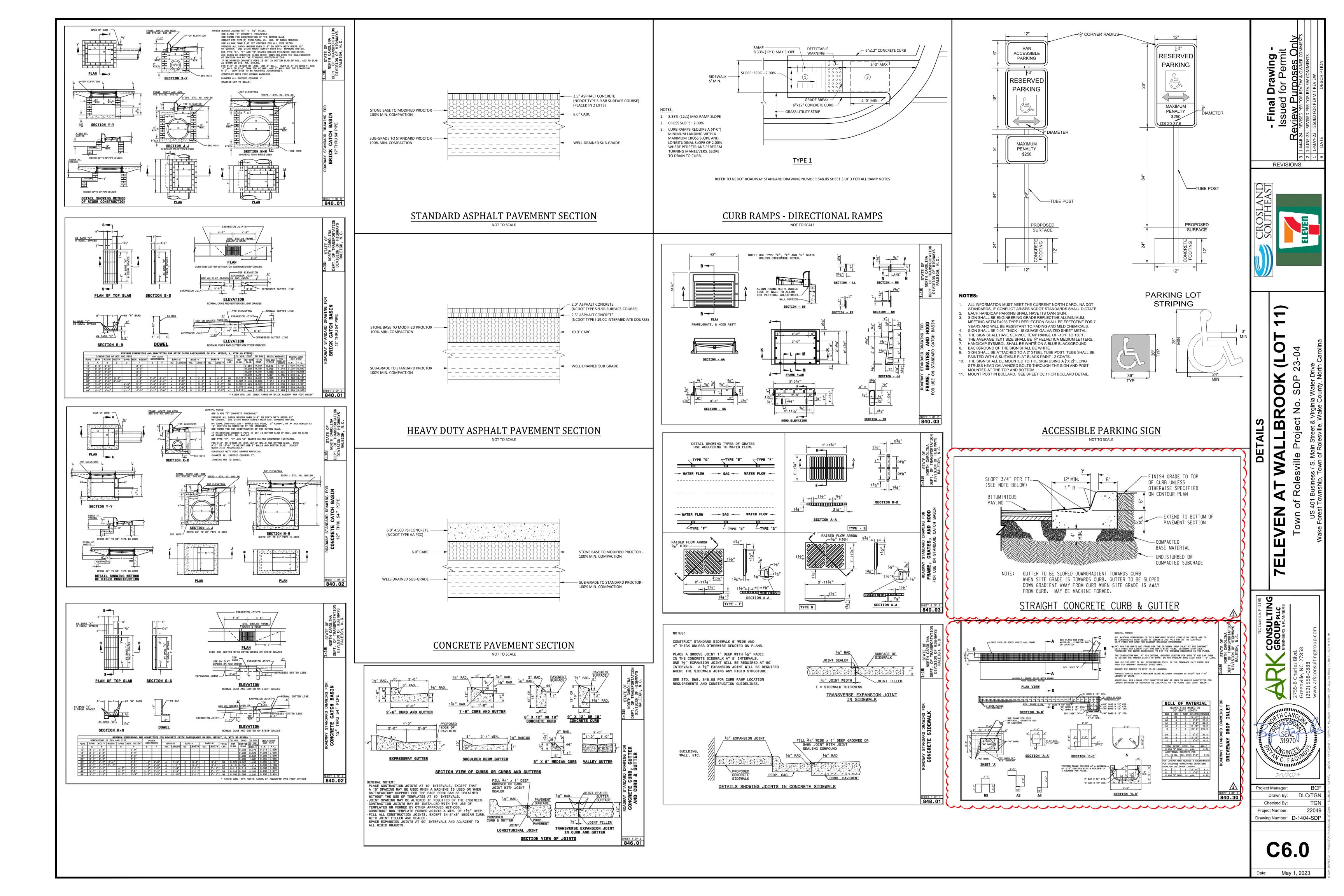
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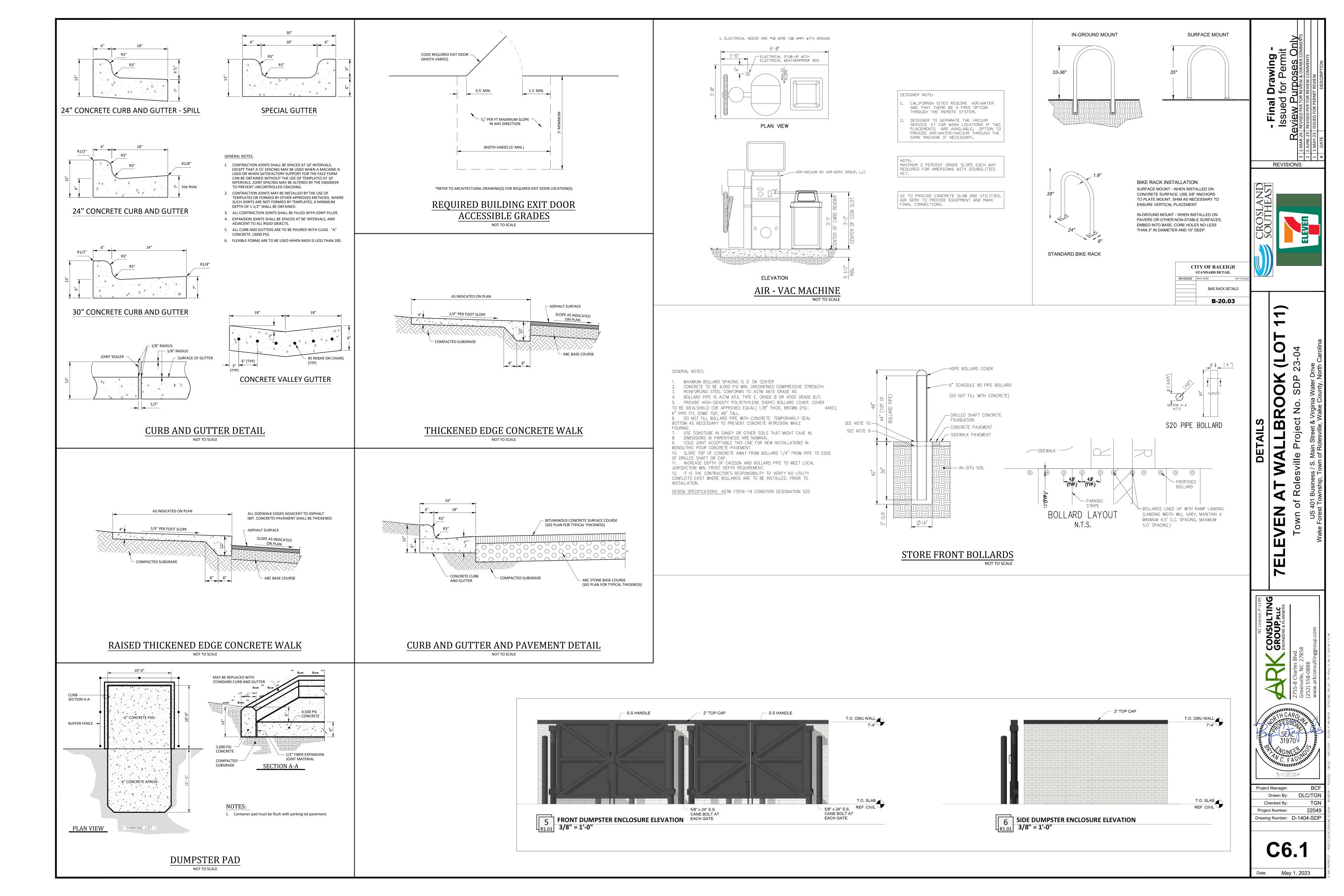
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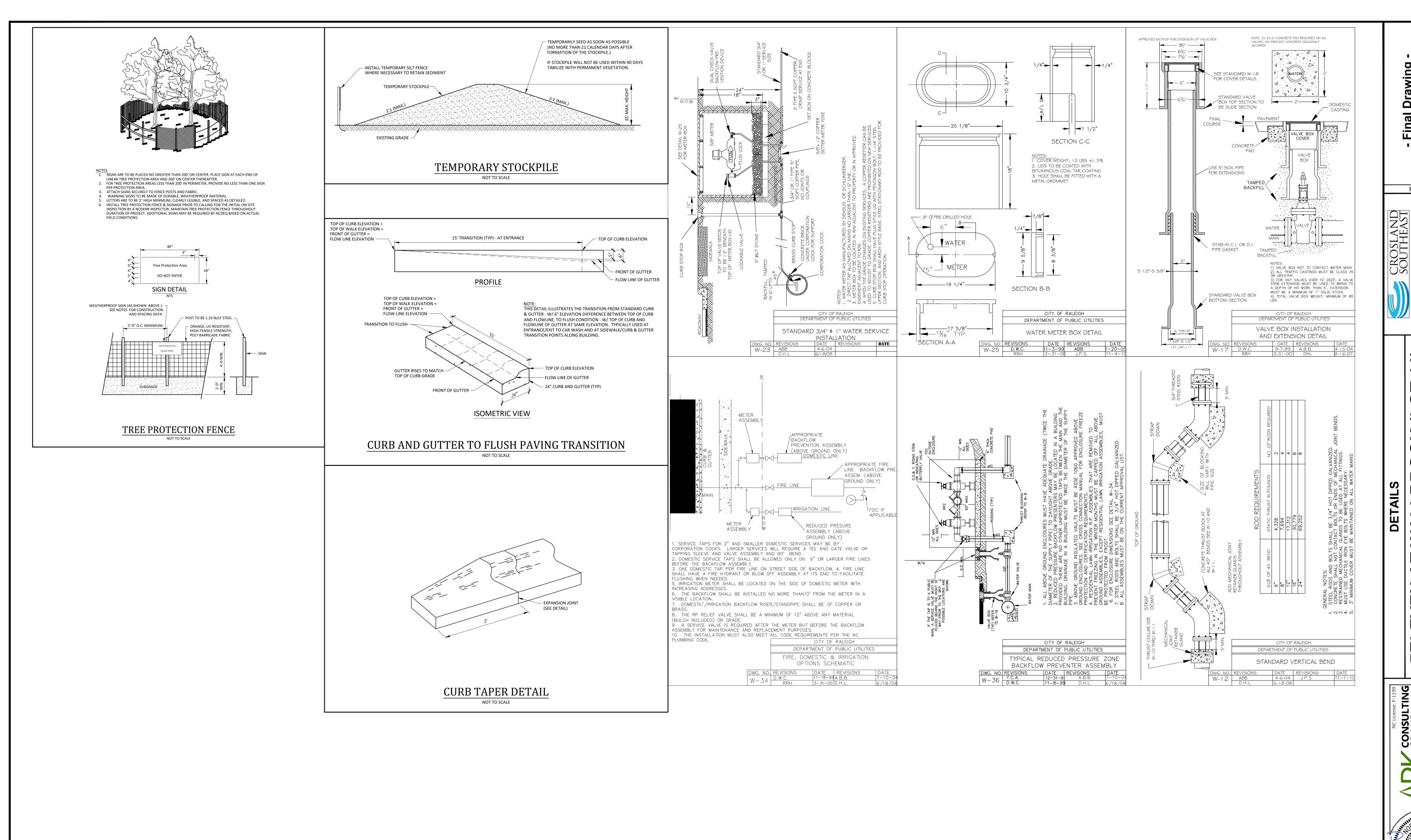
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CONSULTIN GROUP, PLLC

May 1, 2023









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NC License: P-1199

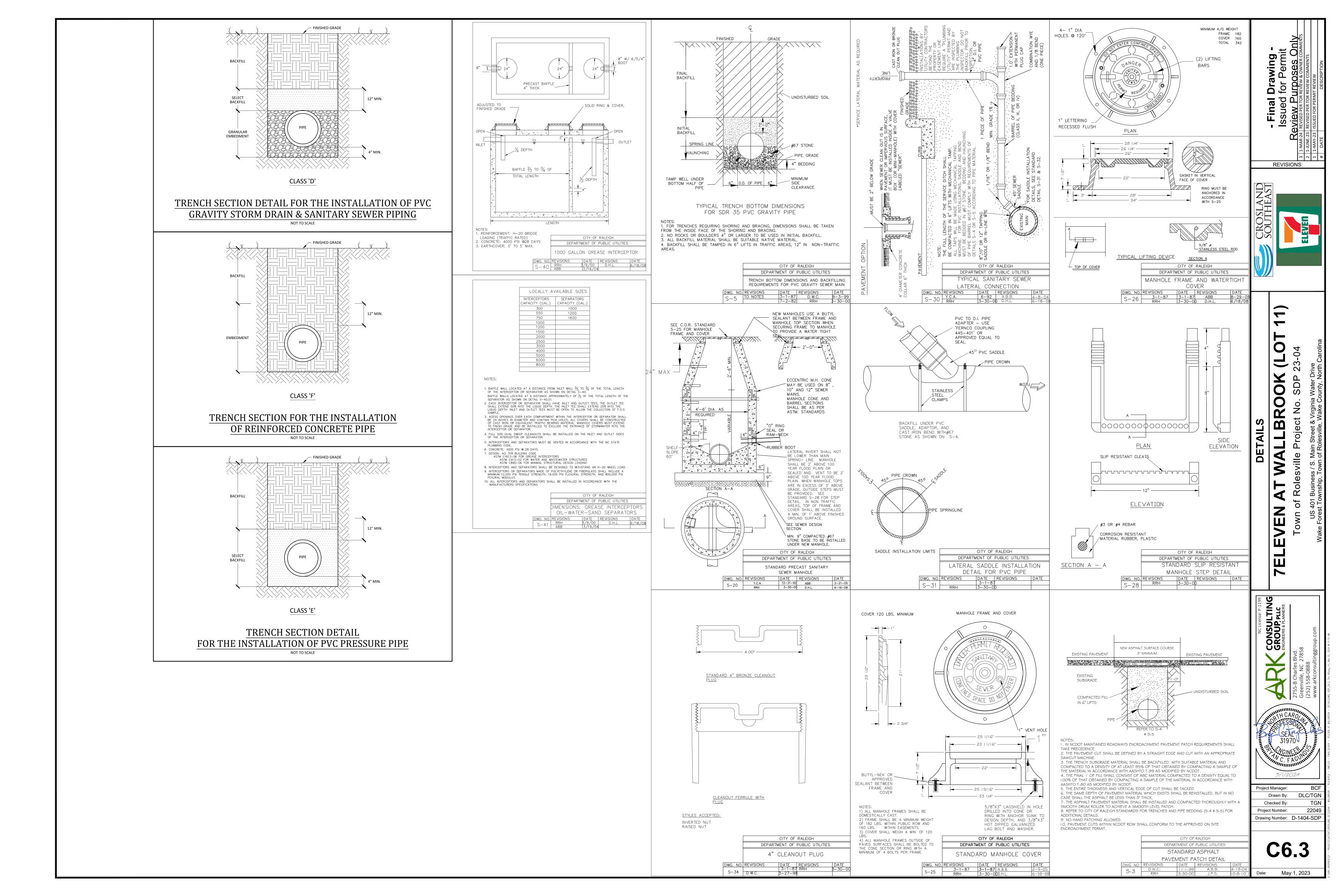
NC License: P-1199

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Project Manager: BCF
Drawn By: DLC/TGN
Checked By: TGN
Project Number: 22049
Drawing Number: D-1404-SDP

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te: May 1, 2023



GENERAL NOTES:

- 1. THIS ALTA/NSPS LAND TITLE SURVEY WAS PREPARED FOR THE BENEFIT OF WALLBROOK LANDCO, LLC, ITS SUCCESSORS AND/OR ASSIGNS AS THEIR INTERESTS MAY APPEAR, AND INVESTORS TITLE INSURANCE COMPANY.
- 2. THE PROPERTY AS SHOWN HEREON IS BASED ON A FIELD-RUN BOUNDARY SURVEY WITH A RAW CLOSURE OF 1:35,900.
- 3. THE IMPROVEMENTS SHOWN HEREON ARE BASED ON A FIELD-RUN PLANIMETRIC SURVEY PERFORMED BY JOHNSON, MIRMIRAN & THOMPSON FROM MARCH 16 THROUGH MARCH 19, 2020 AND REFLECTS SITE CONDITIONS AS OF THAT DATE.
- 4. ELEVATIONS ARE BASED ON NAVD88 DATUM.
- 5. THE SURVEY IS REFERENCED TO THE NORTH CAROLINA STATE PLANE COORDINATE SYSTEM (NCSPCS), NORTH AMERICAN DATUM, 1983, 2001 ADJUSTMENT, NAD83(2001).
- 6. THE USE OF THE WORD CERTIFY OR CERTIFICATION CONSTITUTES AN EXPRESSION OF PROFESSIONAL OPINION REGARDING THOSE FACTS OR FINDINGS WHICH ARE THE SUBJECT OF THE UNDERSIGNED PROFESSIONAL'S KNOWLEDGE, INFORMATION AND BELIEF, AND IN ACCORDANCE WITH THE COMMONLY ACCEPTED PROCEDURE CONSISTENT WITH THE APPLICABLE STANDARDS OF PRACTICE AND DOES NOT CONSTITUTE A WARRANTY OR GUARANTEE EITHER EXPRESSED OR IMPLIED.
- 7. THE SUBJECT PROPERTY IS LOCATED IN FLOOD ZONE X, AREA OF MINIMAL FLOODING, AS SHOWN ON NATIONAL FLOOD INSURANCE RATE MAP (FIRM), WAKE COUNTY, NORTH CAROLINA, PANEL 1758, MAP NO. 3720175800J, EFFECTIVE DATE: MAY 2, 2006.
- 8. AT THE TIME OF THE SURVEY, THERE WERE NO PARKING SPACES.
- 9. AT THE TIME OF THE SURVEY, THERE WAS NO OBSERVABLE EVIDENCE OF THE SITE BEING USED AS A SOLID WASTE DUMP, SUMP OR LANDFILL.
- 10. AT THE TIME OF THE SURVEY, THERE WAS NO OBSERVABLE EVIDENCE OF A CEMETERY.
- 11. AT THE TIME OF THE SURVEY, THERE WAS NO OBSERVABLE EVIDENCE OF BUILDING CONSTRUCTION OR BUILDING ADDITIONS.
- 12. CURRENT ZONING: I-SUD (INDUSTRIAL SPECIAL USE DISTRICT)

SETBACK REQUIREMENTS:

FRONT: 30' SIDE: 15' CORNER: 25' REAR: 35'

(ZONING INFORMATION BASED ON INFORMATION AS SUPPLIED BY CURRENT COUNTY ZONING DEPARTMENT, NO ZONING REPORT OR LETTER WAS PROVIDED TO SURVEYOR AT TIME OF SURVEY.

RECORD LEGAL DESCRIPTION

PER INVESTORS TITLE INSURANCE COMPANY, TITLE COMMITMENT NO. 202000244CA2, WITH AN EFFECTIVE DATE OF MARCH 6, 2020 AT 5:00 P.M.:

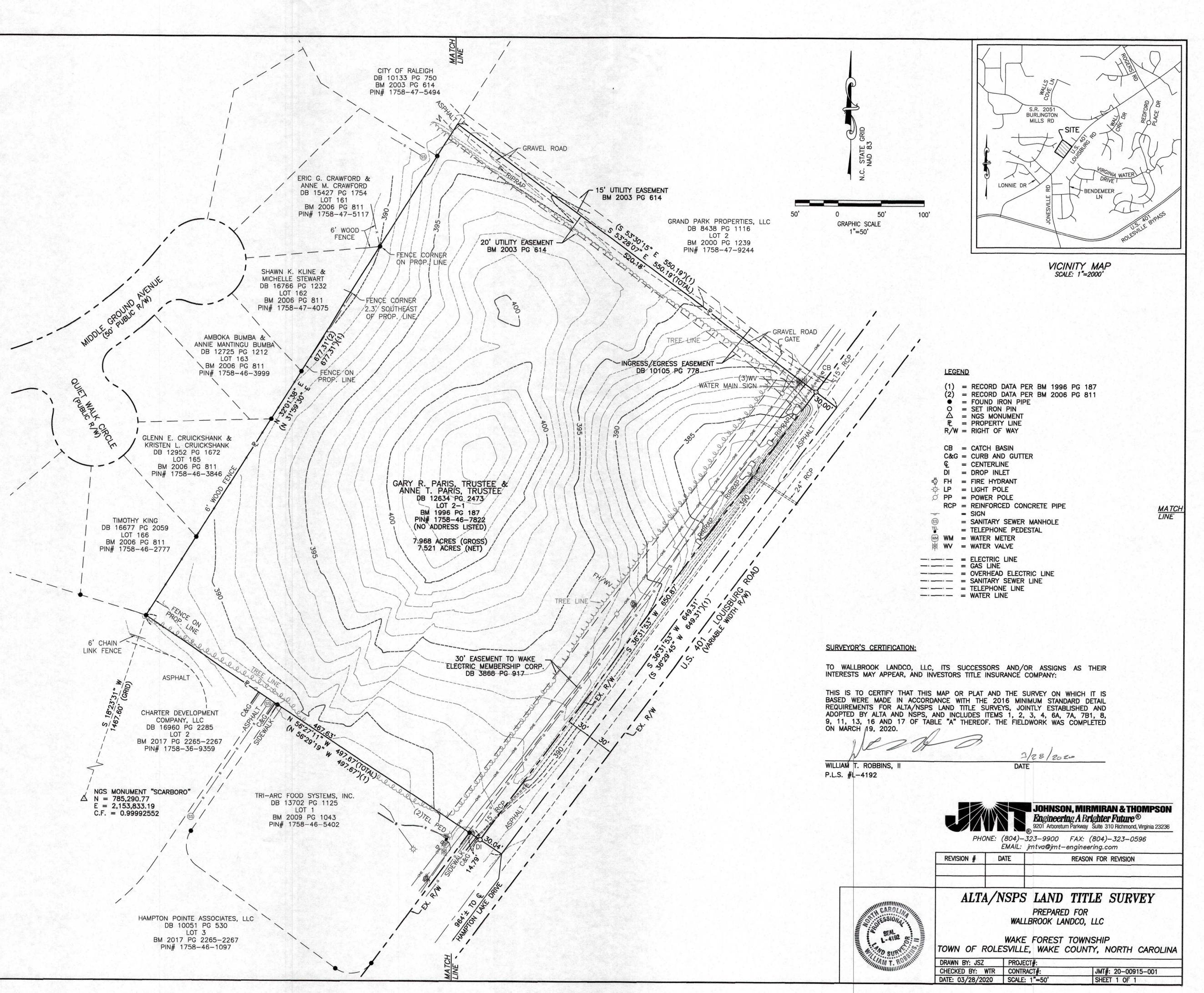
IN THE STATE OF NC, COUNTY OF WAKE,

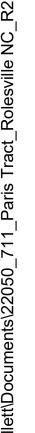
BEING ALL OF LOT 2-1 OF THAT PLAT ENTITLED "PRELIMINARY SUBDIVISION PLAT AND RECOMBINATION SURVEY FOR TOMMY TWITTY," A COPY OF WHICH IS RECORDED IN BOOK OF MAPS 1996, PAGE 187, WAKE COUNTY REGISTRY.

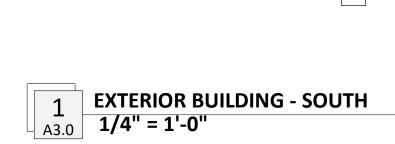
SCHEDULE B. PART II EXCEPTIONS:

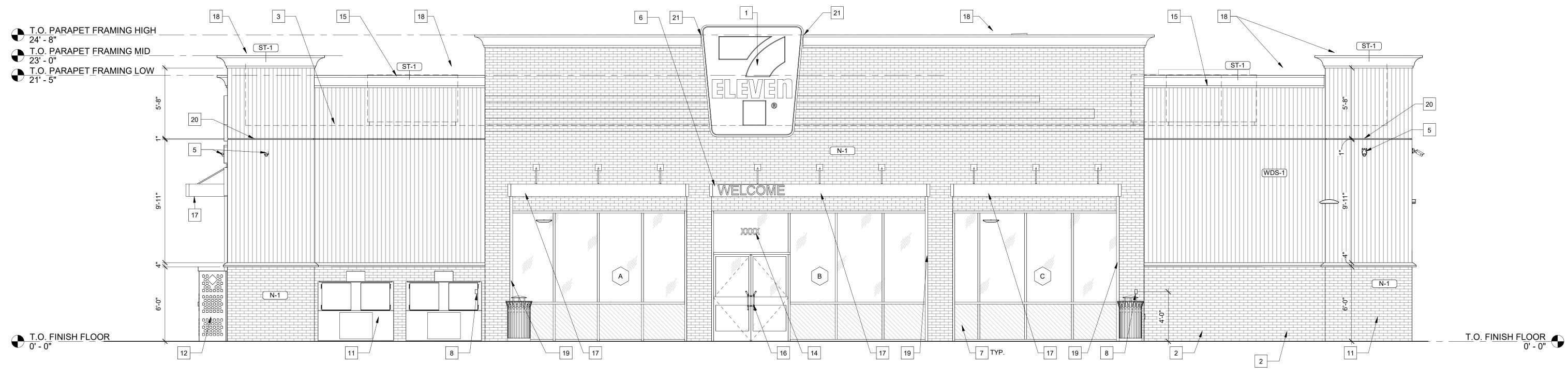
PER INVESTORS TITLE INSURANCE COMPANY, TITLE COMMITMENT NO. 202000244CA2, WITH AN EFFECTIVE DATE OF MARCH 6, 2020 AT 5:00

- 1. (ITEM 3) EASEMENT(S) AND/OR RIGHT(S) OF WAY TO CITY OF RALEIGH RECORDED IN BOOK 10105 AT PAGE 778. [PLOTTED HEREON]
- 2. (ITEM 4) EASEMENT(S) AND/OR RIGHT(S) OF WAY TO WAKE ELECTRIC MEMBERSHIP CORPORATION RECORDED IN BOOK 3868 AT PAGE 917. [PLOTTED HEREON]
- 3. (ITEM 5) TITLE TO THAT PORTION OF THE LAND WITHIN THE RIGHT-OF-WAY OF U.S. HIGHWAY 401 (LOUISBURG ROAD). [PLOTTED HEREON]
- 4. (ITEM 6) MATTERS SHOWN ON RECORDED BOOK OF MAPS 1996 AT PAGE 187 SHOWS THE FOLLOWING LOCATED ON THE LAND:
- (a) OVERHEAD LINE [PLOTTED HEREON]
- (b) POWER POLE [PLOTTED HEREON]
- (c) RIGHT OF WAY FOR U.S. HIGHWAY 401 (LOUISBURG ROAD)
 [PLOTTED HEREON]

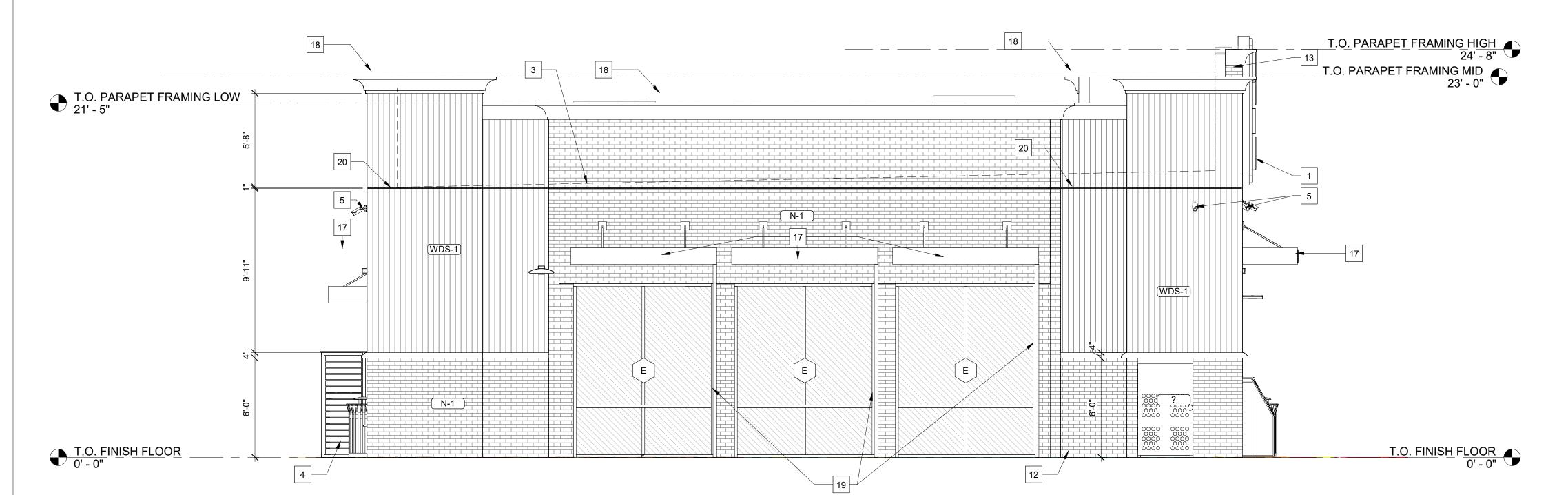








2 **EXTERIOR BUILDING - WEST** 1/4" = 1'-0"



SIGNAGE UNDER SEPARATE PERMIT AND SHOWN FOR GENERAL REFERENCE AND COORDINATION PURPOSED ONLY. REFER TO APPROVED SIGNAGE DRAWINGS BY SIGNAGE COMPANY.

CONTRACTOR TO SUPPLY REQUIRED POWER AND CONNECTION TO ALL SIGNAGE. COORDINATE WITH SIGNAGE COMPANY.

KEYNOTES

- INTERNALLY ILLUMINATED SIGNAGE BY SIGNAGE VENDOR. PROVIDE BLOCKING AS REQUIRED FOR THRU-BOLT CONNREFECTIONS. REF. ELECTRICAL FOR POWER REQUIREMENTS.
 - ICE MERCHANDISER (3RD PARTY VENDOR). UNIT SHALL NOT BLOCK STOREFRONT. UNIT PLACED AGAINST WALL.
- 3 ROOF LINE BEYOND, TYP.
- 4 CO2 TANK/CAGE
- SECURITY CAMERA, REF. ELECTRICAL LOW VOLTAGE PLAN FOR ADDITIONAL INFORMATION.
- 6 VINYL SIGNAGE BY SIGNAGE VENDOR.
- 7 3M WINDOW FILM AT LEAN BAR, REF. EQ SHEETS.
- 8 EMERGENCY SHUT-OFF FOR FUEL DISPENSERS MOUNTED AT 48" A.F.F.
- ELECTRICAL OUTLET MOUNTED AT 40" A.F.F. FOR FUTURE AMAZON LOCKERS, REF. ELECTRICAL.
- 11 EXTERIOR ELECTRICAL OUTLET MOUNTED AT 24" A.F.F., REF. ELECTRICAL.
- 12 PROPANE (3RD PARTY VENDOR)
- 13 NICHIHA FINISH TO WRAP END OF PARAPET WALL.
- 14 6" WHITE VINYL STREET ADDRESS, REF. SHEET EQ1.0.
- 15 RTU, REF. MECHANICAL.
- 16 EXTERIOR ALUMINUM STOREFRONT DOOR & FRAME, TYP., REF. SHEET A6.0.
- 17 PRE-FAB METAL CANOPY; REF TO EXTERIOR FINISH SCHEDULE
- 18 20 GA. PRE-FINISHED METAL COPING, REF. TO EXTERIOR FINISH SCHEDULE
- CANOPY DOWNSPOUT, PAINT TO MATCH CANOPY FINISH (MATTE BLACK), TYP.
- 20 NICHIHA HORIZONTAL COMPRESSION JOINT
- GC TO COORDINATE OPENING IN CORNICE WITH SIGNAGE INSTALLATION FOR CLEAN FIT AND FINISH.

GENERAL NOTES

702 SE 5TH ST. SUITE 50 BENTONVILLE, AR 72712

STUDIO

TEL: 479.579.9959

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Contractor is responsible for confirming and correlating dimensions at job site; the Architect will not be responsible for construction means, methods, techniques, sequences or procedures, or for safety precautions and programs in connection with the project.

REVISIONS NO. DATE DESCRIPTION





Architect Name - RYAN M. FAUST

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CCMB Title:

EXTERIOR ELEVATIONS

Sheet Number: A3.0

Date: 01/26/2024

ALL-TERM DUROLAST PERIMETER EDGE; COAL BLACK —

ELEVEN

T.O. PARAPET FRAMING MID
23' - 0"
T.O. PARAPET FRAMING LOW
21' - 5"

DASHED LINE INDICATES ROOF TOP EQUIPMENT SCREENED BEYOND —

b·u·f studio 702 SE 5TH ST. SUITE 50 BENTONVILLE, AR 72712 TEL: 479.579.9959 MATTE BLACK BAKED ARCHITECTURAL LUMINSHADE ENAMEL WITH REAR Drawings & Specifications as instruments of service are & shall remain the property of the Architect. They are not to be used on other projects or extensions to this project except by agreement in GUTTER CONNECTIONS writing & with appropriate compensation to the Architect. Contractor is responsible for confirming and correlating dimensions at job site; the Architect will not be responsible for construction means, methods, techniques, sequences or procedures, or for safety precautions and programs in connection with the project. SEE PAINT SCHEDULE FOR ADDITIONAL ©Copyright 2024 SEE PAINT SCHEDULE **REVISIONS**

EXTERIOR MATERIALS SCHEDULE

COLOR MANUFACTURER MODEL

NICHIHA

WILLIAMS

SHERWIN WILLIAMS

DURO-LAST

MATTE BLACK MAPES

CODE DESCRIPTION

FC-2 FIBER CEMENT PANELS

- VINTAGE BRICK N-1 FIBER CEMENT PANELS

- VINTAGE BRICK

ALUMINUM CANOPY

MR-1 MEMBRANE ROOFING WHITE

P-1 EXTERIOR UTILITIES PURE WHITE SHERWIN

FIBER CEMENT PANEL

MT-3 PRE-FINISHED

SYSTEM

ST-1

LINE OF ROOF BEYOND

COMMENTS

INFORMATION

INFORMATION

FOR ADDITIONAL

SHALE BROWN PAINTED SW7005

AWP 3030 PAINTED P-1

MAPES

WHITE 40MIL SINGLE-PLY

PVC ROOFING MEMBRANE

CANOPIES CANOPY

NO. DATE DESCRIPTION

Architect Name - RYAN M. FAUST

Drawing Size: | Project #:

30 x 42

Title:

Drawn By:

Sheet Number:

Date: 01/26/2024

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EXTERIOR COLORED **ELEVATIONS**

22050

Checked By: ССМВ

STREET SIDE ----3 FUEL CANOPY SHORT ELEVATION Copy 1



EXTERIOR MATERIALS SCHEDULE DESCRIPTION COMMENTS COLOR MANUFACTURER MODEL FIBER CEMENT PANEL FC-2 FIBER CEMENT PANELS SHALE BROWN PAINTED SW7005 - VINTAGE BRICK N-1 FIBER CEMENT PANELS NICHIHA AWP 3030 PAINTED P-1 - VINTAGE BRICK MAPES
ARCHITECTURAL
CANOPIES

MAPES
BACK BAKED
ENAMEL WITH REAR
GUTTER CONNECTIONS MT-3 PRE-FINISHED ALUMINUM CANOPY MATTE BLACK MAPES P-1 EXTERIOR UTILITIES PURE WHITE SHERWIN SEE PAINT SCHEDULE FOR ADDITIONAL WILLIAMS INFORMATION SEE PAINT SCHEDULE SHERWIN FOR ADDITIONAL WILLIAMS INFORMATION MR-1 MEMBRANE ROOFING WHITE SYSTEM WHITE 40MIL SINGLE-PLY DURO-LAST PVC ROOFING MEMBRANE

#29 BLACK KAWNEER



STOREFRONT

S-1 ALUMINUM

STOREFRONT FRAMING



VINTAGE BRICK

PAINTED SHERWIN

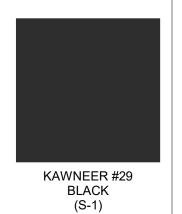
WILLIAMS "PURE WHITE"

(FC-2)



SILVER (MT-1)

451T VG



STUDIO

TEL: 479.579.9959

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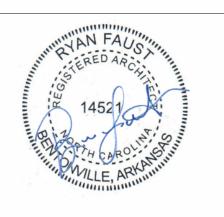
Contractor is responsible for confirming and correlating dimensions at job site; the Architect will not be responsible for construction means, methods, techniques, sequences or procedures, or for safety precautions and programs in connection with the project.

REVISIONS

NO. DATE DESCRIPTION

BENTONVILLE, AR 72712





Architect Name - RYAN M. FAUST
Architect Number - 14521
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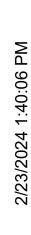
Drawing Size: 30 x 42	22050 #:
<i>Drawn By:</i> JAM	Checked By: CCMB
Title:	

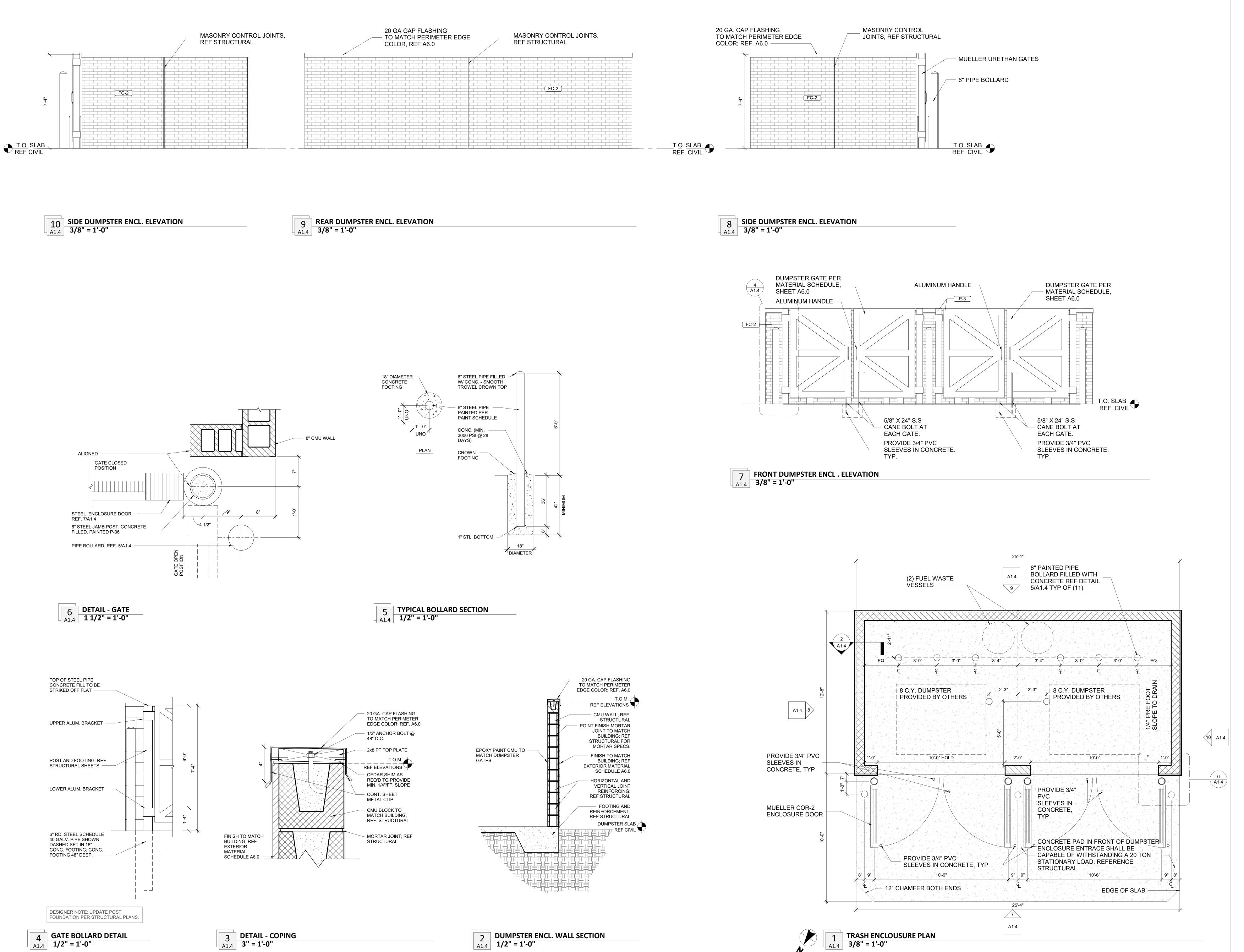
EXTERIOR COLORED **ELEVATIONS**

Sheet Number: R1.01

Date: 01/26/2024

2 FUEL CANOPY SHORT ELEVATION
3/16" = 1'-0"





STUDIO

702 SE 5TH ST. SUITE 50 BENTONVILLE, AR 72712 TEL: 479.579.9959

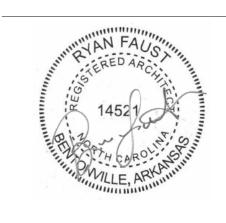
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NO. DATE DESCRIPTION

9350



Architect Name - RYAN M. FAUST Architect Number - 14521 THE SEAL & SIGNATURE APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED & WE EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT. Drawing Size: | Project #: 30 x 42 22050

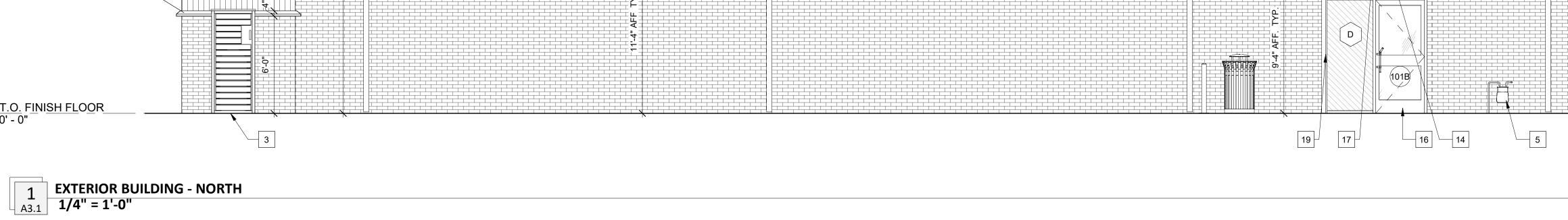
Drawn By: Checked By: ССМВ Title:

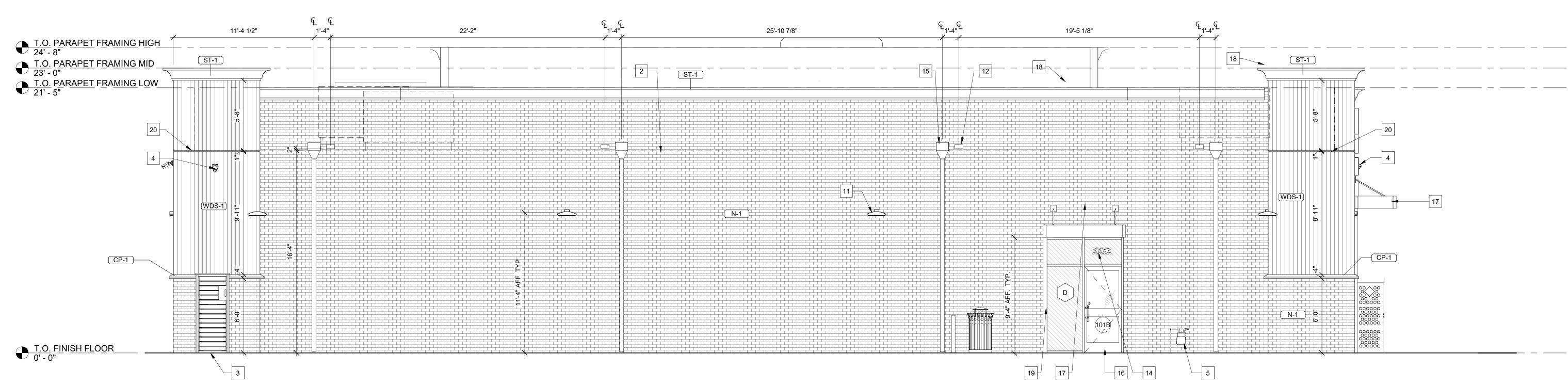
TRASH ENCLOSURE & **DETAILS**

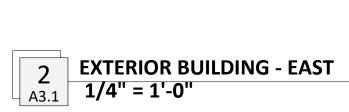
Sheet Number: A1.4

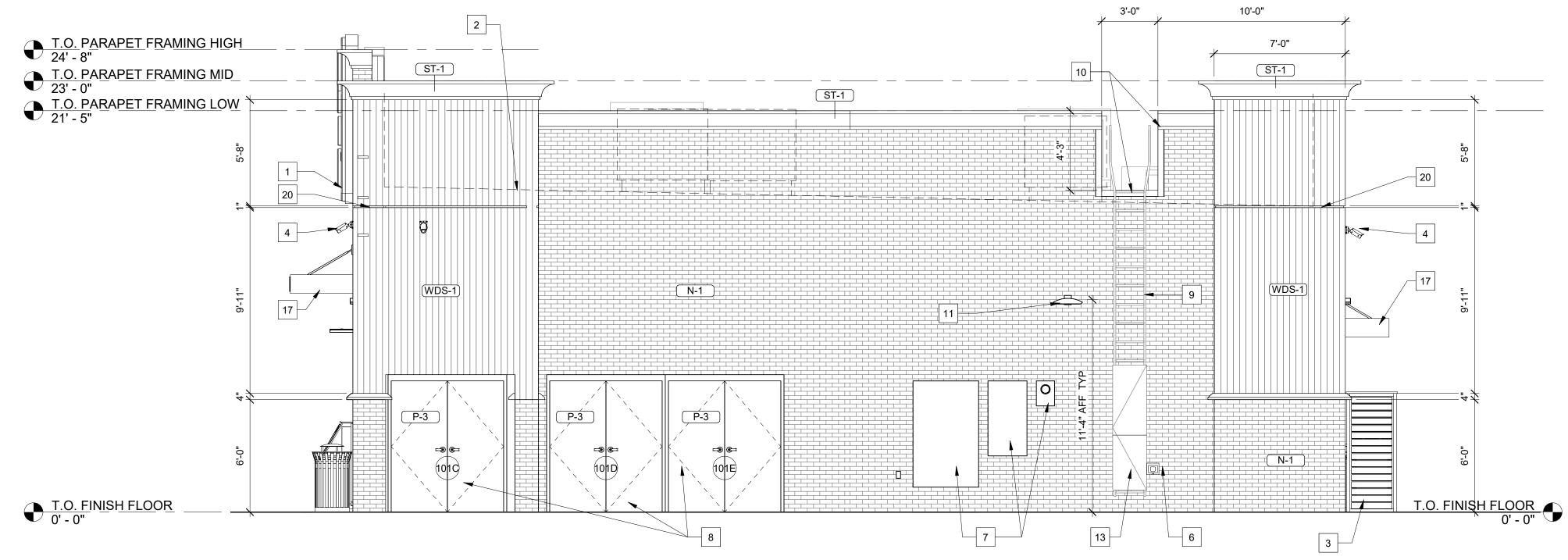
Date: 01/26/2024











GENERAL NOTES

- SIGNAGE UNDER SEPARATE PERMIT AND SHOWN FOR GENERAL REFERENCE AND COORDINATION PURPOSED ONLY. REFER TO APPROVED SIGNAGE DRAWINGS BY SIGNAGE COMPANY.
- CONTRACTOR TO SUPPLY REQUIRED POWER AND CONNECTION TO ALL SIGNAGE. COORDINATE WITH SIGNAGE COMPANY.

KEYNOTES

INTERNALLY ILLUMINATED SIGNAGE BY SIGNAGE VENDOR. PROVIDE BLOCKING AS REQUIRED FOR THRU-BOLT CONNREFECTIONS. REF. ELECTRICAL FOR POWER REQUIREMENTS.

- 2 ROOF LINE BEYOND, TYP.
- 3 CO2 TANK/CAGE
- 4 SECURITY CAMERA, REF. ELECTRICAL LOW VOLTAGE PLAN FOR ADDITIONAL INFORMATION.
- 5 GAS METER.
- 6 HOSE BIB, REF. PLUMBING.
- 7 PAINT ALL EXPOSED UTILITIES P-1
- 8 EXTERIOR HM DOOR AND FRAME, TYP. REF. SHEET A6.0.
- 9 ROOF ACCESS LADDER, REF. EXTERIOR ELEVATIONS AND DETAILS ON A7.1
- 10 WRAP EDGES OF PARAPET WALL IN BRAKE METAL, REF. DETAILS ON A7.2.
- 11 WALL PACK, SEE ELECTRICAL
- 12 OVERFLOW SCUPPER; TO BE 2" ABOVE PRIMARY DRAIN SYSTEM, TYP.
- 13 LOCKING SECURITY DOOR. REFER MANUF. SPECS.
- 14 6" WHITE VINYL STREET ADDRESS, REF. SHEET EQ1.0
- 15 PRE-FINISHED METAL SCUPPER AND DOWNSPOUT REF. TO EXTERIOR
- FINISH SCHEDULE.
- 16 EXTERIOR ALUMINUM STOREFRONT DOOR & FRAME, TYP., REF. SHEET A6.0.
- 17 PRE-FAB METAL CANOPY; REF TO EXTERIOR FINISH SCHEDULE.
- 18 20 GA. PRE-FINISHED METAL COPING, REF. TO EXTERIOR FINISH SCHEDULE
- 19 CANOPY DOWNSPOUT, PAINT TO MATCH CANOPY FINISH (MATTE BLACK), TYP.
- 20 NICHIHA HORIZONTAL COMPRESSION JOINT

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<u>Architect Name</u> - RYAN M. FAUST THE SEAL & SIGNATURE APPLY ONLY TO THE DOCUMENT TO

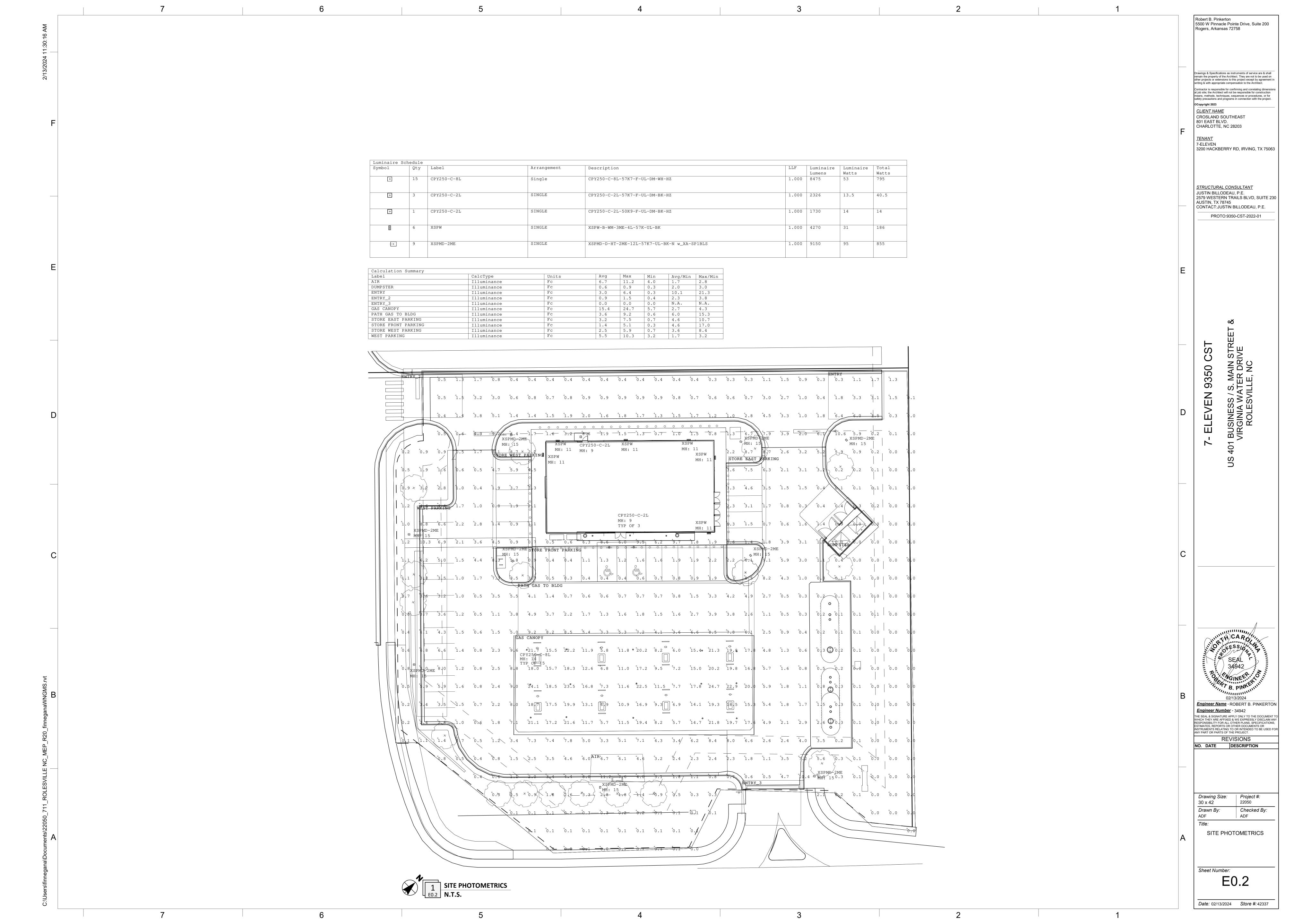
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30 x 42 Drawn By: Checked By: CCMB Title:

EXTERIOR ELEVATIONS

Sheet Number:

Date: 01/26/2024



XSPMD LED Street/Area Luminaire – Medium

Mounts on 1.25" (32mm) IP, 1.66" (42mm) 0.D. or 2" (51mm) IP, 2.375"

(60mm) O.D. horizontal tenon [minimum 8" [203mm] in length] and is

Luminaire secures with two 410 stainless steel mounting bolts; optional.

· Exclusive Colorfast DeltaGuard® finish features an E-Coat epoxy primer

excellent resistance to corrosion, ultraviolet degradation and abrasion

Comes standard with Utility Label per ANSI C136.15-2020 and 7-pin

Integral 10kV/5kA surge suppression protection standard; 20kV/10kA

Designed with 0-10V dimming capabilities. Controls by others

Luminaires with DLI option are DALI compatible per IEC 62386

Operating Temperature Range: -40°C - +40°C (-40°F - +104°F)

 Certified to ANSI C136.31-2001, 3G bridge and overpass vibration ANSI C136.2 10kV/5kA [standard] and 20kV/10kA [optional] surge protection, tested in accordance with IEEE/ANSI C62.41.2

. Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117

Assembled in the USA by Cree Lighting from US and imported parts

Please refer to https://www.darksky.org/our-work/lighting/lighting-for-industry/fsa/fsa-products/ for most current information

Meets FCC Part 15, Subpart B, Class A limits for conducted and radiated

. When code dictates fusing, a slow blow fuse or type C/D breaker should

NEMA® Photocell Receptacle per ANSI C136.41

Input Voltage: 120-277V or 347-480V, 50/60Hz

Total Harmonic Distortion: < 20% at full load

surge suppression protection optional

REGULATORY & VOLUNTARY QUALIFICATIONS

Meets Buy American requirements within ARRA

RoHS compliant. Consult factory for additional details

CA RESIDENTS WARNING: Cancer and Reproductive Harm – www.oi5wermings.ca.nov

Dark Sky Friendly, IDA Approved when ordered with 30K7 CCT.

with an ultra-durable black, bronze or silver powder topcoat, providing

adjustable +/- 5" to allow for fixture leveling lincludes two axis T-level to

Product Specifications

CONSTRUCTION & MATERIALS

Die cast aluminum housing

four point mounting available

Weight: 14.2 lbs. [6.4kg]

Power Factor: > 0.9 at full load

be used to address inrush

10V Source Current: 0.15mA

cULus Listed

Suitable for wet locations

ELECTRICAL SYSTEM

Tool-less entry

aid in leveling

XSPMD LED Street/Area Luminaire - Medium

RESTL Test Report #: PL12765-007B

Type II Long Distribution

RESTL Test Report #: PL12745-0088 XSPL8-D-**-2L6-24L-40K7-UL-**-N w/XA-SP28L5

Type II Long w/BLS Distribution

Initial Delivered Lumens: 17,373

http://creelighting.com/products/outdoor/street-and-roadway/xsp-series

Mounting Height: 25' (7.6m) A.F.G. Initial Delivered Lumens: 11,800

Initial delivered lumero, et 25°C (17°F). Actual production yield may vary between -10 and +10% of initial delivered lumero.
*Per more information on the ES 800 Blacklight-Uplight-Olare) Rating visit: https://www.ics.org/inp.com/en/lumero-based-2007/05/TM-15-11810

XSPMO-D-**-2LG-12L-48K7-UL-**-N

Mounting Height: 25' (7.6m) A.F.G.

Initial Delivered Lumens: 8,725 Initial FC at grade

Initial delivered humans at 25°C (17°F). Actual production pield may sorp between -10 and +10% of initial delivered lumens. *Fer more information on the IES 8UO (Backlight-Uplight-Glare) Rating visit: <u>https://www.ies.org/ivp-contenth.phoads/7017</u>7

All published luminaire photometric testing performed to IES LM-79 standards. To obtain an IES file specific to your project consult:

BUG Initial Ratings** Delivered Per TM-15-11 Lumens*

B4 U0 02 11,875

2 @ 180"

PD-2H4[180]: PT-2H[180]

vered turners, at 25°C (17°F). Actual, production yield may sary between -10 and +10% of initial delivered turners.
Information on the IES GUG (Blacklight-Uplight-Glary) Rating visit. https://www.les.org/up-content/uploads/2017/ESTM-IS-118USRatings/ddendum.od/

All published luminaire photometric testing performed to IES LM-79 standards. To obtain an IES file specific to your project consult:

BUG Initial BUG Initial BUG Initial BUG Initial BUG Ratings** Delivered Ratings** Delivered Ratings** Per TM-15-11 Lumens* Per TM-15-11 Lumens* Per TM-15-11

83 U0 63 11,875

All published luminaire photometric testing performed to IES LM-79 standards. To obtain an IES file specific to your project consult:

Lumen Package | Initial | BUG | Initial | Initial

B2 U0 G2 11,875

Initial delivered lumens at 25°C (17°F). Actual production yield may sary between -10 and +10% of initial delivered lumens.

"Per more informatice on the ES SUO Blocklight-Uplight-Olarel Rating visit: https://piss.com/personal-placed-2017/03/TM-15-1181/09/atings/iddendum.cd

XSPMD-D-**-2ME-12L-40K7-UL-**-N

| Lumen | Initial | BUG | Initial | Delivered | Ratings** | Delivered | Lumens* | Per TM-15-11 | Lumens* | Per TM-15

Initial Delivered Lumens: 7,075

idial delivered humans at 25°C (17°F). Actual production pield may vary between -10 and +10°h of initial delivered Lumens. For more information on the IES 800 (Backlight-Uplight-Glane) Rating visit (<u>https://www.ies.org/wp-content/uploads/70/77</u>

XSPMD-D-**-2ME-12L-40K7-UL-**-N

XSPMD LED Street/Area Luminaire - Medium

RESTL Test Report #₁ 12765-0038 XSPLS-D-**-2ME-24L-40K7-UL-**-N

Type II Medium Distribution

RESTL Test Report #: PL12745-004B XSPL8-D-**-2ME-24L-40K7-UL-**-N w/XA-SP2BLS

Type II Medium w/BLS Distribution

Initial Delivered Lumens: 17,757

Initial Delivered Lumens: 23,168

http://creelighting.com/products/outdoor/street-and-roadway/xsp-series

Robert B. Pinkerton

Engineer Name - ROBERT B. PINKERTON **Engineer Number** - 34942 THE SEAL & SIGNATURE APPLY ONLY TO THE DOCUMENT T

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Project #:

Drawn By: Checked By: LIGHTING FIXTURE **DETAILS**

Sheet Number:

Synapse Wireless Sensor WSN-DPM

- Motion and light sensor

Refer to WSN-DPM spec sheet for details SimplySNAP On-Site Controller

(Optional, for increased range, 8dB gain)

Hit includes antenna, 20' cable and bracket

Gt includes antenna, 30' cable and bracket

- Hit includes antenna, 50' cable and bracket

Refer to <u>Buildoor antenna spec sheet</u> for details.

T/ System Watts 120-480V Wattage** 120V 200V 240V 277V 347V 480V

t Optics Initial LMF 25K hr Reported Reported Estimated LMF 25K hr Reported LMF 25K hr Reported Estimated Estimated LMF 25K hr Reported Estimated Estimated LMF 25K hr Reported Estimated Estimated

Asymmetric 1.03 1.02 1.00 0.99^c

Asymmetric 1.01 1.00 0.58 0.56' Symmetric 1.01 1.01 1.00 1.00'

Asymmetric 1.00 0.59 0.57 0.55

Symmetric 1.00 0.59 0.59 0.99

drooms. accordance with IES TM-21, Reparted values represent interpolated values based on time durations that are to fix the tested duration in the IES LM-80 report for the LED. dimated values are calculated and represent time durations that exceed the fix test duration of the LED.

eintenance values at 25°C (17°F) are calculated per IES TN-21 based on IES LM-80 report data for the LED at in-aitu luminaire testing. Luminaire ambient temperature factors (LATF) have been applied to all lumes factors. Please refer to the <u>Temperature Zone Reference Document</u> for autidoor everage nightime ambie

Designed for indoor applications

- Reguired for BACnet integratio

Product Specifications

SYNAPSE® SIMPLYSNAP INTELLIGENT CONTROL

FOR NON-STREET LIGHTING APPLICATIONS ONLY

from networking requirements for street lighting applications.

Dimming Receptable Provides 0n/0ff switching, dimming, power

Suitable for 120-680Y (UL and UH) voltage

metering, digital sensor input, and status

- Includes On-Site Controller ISS450-002) and

- Refer to <u>CBSSW-450-000</u> spec sheet for details.

ld Adjustable Output table on page 6 for utility label lumen values

XSP Series (XSPMD) Ambient Adjusted Lumen Maintenance¹

5-button switch - Indoor and Dutsloor rated

Electrical Data*

Requires NEMA/ANSI C136.41 7-Pin Dimming

es On/Off switching, dimming, power

Refer to TL7-B2 spec sheet for details
Twist-Lock Lighting Controller

The XSP Series is compatible with the Synapse® SimplySNAP platform. A highly intuitive connected

lighting solution for Site and Area applications only. The system features a reliable and robust self-

healing mesh network with a browser-based interface that runs on smartphones, tablets, and PCs

code compliance and a better light experience for non-street lighting installations. SimplySNAP is

Synapse Wireless Control Accessories (for Non-Street Lighting Applications only)

optimized to create and manage networks for campus wide Area and Site applications which differs

Using a Twist-Lock Lighting Controller and Site Controller, SimplySnap provides: energy productivity,

XSP Series XSPMD LED Street/Area Luminaire - Medium Rex. Date: V9 02/20/2023

Product Description Designed from the ground up as a totally optimized LED street and area lighting system, the XSP Series delivers incredible efficiency without sacrificing application performance. Beyond substantial energy savings and reduced maintenance. Cree Lighting achieves greater optical control with our NanoOptic* Precision Delivery Grid™ optic when compared to traditional cobra head luminaires. The XSP Series is the better alternative for traditional street and area lighting with quick payback and improved Applications: Collector roads, major roads, parking lots, and general area spaces

Performance Summary

NanoOptic® Precision Delivery Grid® optic Assembled in the USA by Cree Lighting from US and imported parts Initial Delivered Lumens: Up to 11,875 Efficacy: Up to 125 LPW

CRI: Minimum 70 CRI CCT: 3000K, 4000K, 5000K, 5700K Limited Warranty': 10 years on luminaire; 10 years on Colorfast DeltaBuard® finish; up to 5 years for Synapse® accessories; 1 year on luminaire accessories See http://constabiling.com/warranty for warranty terms. For Synapse accessories, consult Synapse spec sheets for details on warranty terms.

Backlight Centrel Shield - Refer to initial delivered lumen tables

Utility Label Location

NEMA 7-Pin Photocell Receptacle Location

Ordering Information

XSPMD	D HT	r		12L				N	
Product	Version Mo	ounting* 0		Lumen Package***	CCT/CRI	Voltage	Color Options	Utility Label/Receptacle	Options
XSPMD		orizontal 20 Tr. 20 Tr. N. 30 Tr. N. M. 30 T	LG**	12L 12,000 Lumens	30N7 3000K, 70 CRI 40K7 4000K, 70 CRI 50K7 5000K, 70 CRI 57K7 5700K, 70 CRI	UL Universal 120-277V UH Universal 347-480V	BK Black BZ Bronze SV Silver WH White	N Utility Label and NEMA* 7-Pin Phatacell Receptacle - External wattage label per ANSI 0136.15-2020 - 7-pin receptacle per ANSI 0136.41 - Receptacle leads are factory connected to the driver - Requires photocell or shorting cap by others!	20KV 20kV/10kA Surge Suppression Replaces standard 10kV/5kA surge protection OLI DALI Compatible Assilable with UL voltage only Not available with UC or X options Small Four Bott Mounting Nouris to 1.25" (S2mm) IP, 1.86" (42mm) 0.0. horizontal tenon J Large Four Bott Mounting Nouris to 2" (51mm) IP, 2.375" (42mm) 0.0. horizontal tenon O7/08/07/08/06/04/03/02/09 Field Adjustable Output Num select 07, 03, 07, 06, 05, 04, 03, 02, or 01 Offers full range lumon adjustability Includes wortage label for setting selected Refer to page II for power and lumon values Luminaire may also be dimmed through 7-Pin receptacle with use of dimming control by others X8/X7/X6/X5/X4/X3/X2/X1 Locked Lumon Output Num select 08, X7, X8, X6, X6, X3, X2, or X1 Lumen output is permanently locked to the setting selected Includes wortage label for setting selected Refer to page 8 for power and lumon values Omming is only available through 7-Pin receptacle with use of dimming control by others Olimming is only available through 7-Pin receptacle with use of dimming control by others

Lursen Plackage cades identify approximate light subput only. Actual lursen output levels may vary depending on ECT and optic selection. Refer to Initial Delivered Lursen tables for specific lursen values.

All published luminaire photometric testing performed to IES LM-79 standards. To obtain an IES file specific to your project consult:

BUG Initial BUG Initial
Ratings** Delivered Ratings** Delivered
Per TM-15-11 Lumens* Per TM-15-11 Lumens*

XSPMD-D-**-3ME-12L-40K7-UL-**-N

BUG Initial BUG Initial Per TM-15-11 Lumens* Per TM-15-11 Lumens*

ial delivered lumens at 25°C (17°F). Actual production jold may sary between -10 and +10% of initial delivered lumens or more information on the IES 800. (Backlight-Uptight-Stare) Rating visit <u>into discounts and her content unlock (2007)</u>

B1 U0 G2 8,425

* Initial delivered furners at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lamens
** Par more information on the ES 600 (Backlight-Uplight-Olars) Rating visit: <a href="https://www.incom/inc

BUG Ratings** Delivered Per TM-15-11 Lumens*

B1 U0 G2 B,425

US: creetighting.com (800) 236-6800

XSPMD LED Street/Area Luminaire – Medium

RESTL Test Report # PL12611-0018

Type III Medium Distribution

RESTL Test Report #: PL12745-0029 XSPL8-D-**-3ME-24L-40K7-UL-**-N w/X4-SP28L5

Initial Delivered Lumens: 16,503

http://creelighting.com/products/outdoor/street-and-roadway/xsp-series

CREE

LIGHTING

US: creelighting.com (800) 236-6800 Canada: creelighting-canada.com (800) 473-1234

XSPMD LED Street/Area Luminaire - Medium

Type IV Medium Distribution

Initial Delivered Lumens: 16,961

http://creelighting.com/products/outdoor/street-and-roadway/xsp-series

All published luminaire photometric testing performed to IES LM-79 standards. To obtain an IES file specific to your project consult:

BUG Initial BUG Initial BUG Initial BUG Initial BUG Ratings** Delivered Per TM-15-11 Lumens* Per TM-15-11 Lumens* Per TM-15-11 Lumens*

Mounting Height: 25'17.6m1A.F.B.

XSPMD-D-**-4MG-12L-40KT-UL-**-N

Initial Delivered Lumena: 8,625

Initial delivered lumens at 25°C (37°F). Actual production yield may vary between -10 and +10% of initial delivered lumens. ** Per more information on the IES 800 (Backlight-Uplight-Gland) Rating visit: <u>https://www.ies.org/iep-content/uploads/20</u>07

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LIGHTING

US: creelighting.com [800] 236-6800 Canada: creelighting-canada.com (800) 473-1234

XSPMD LED Street/Area Luminaire - Medium

RESTL Test Report #: PL12933-001B XSPMD-D-**-5SH-12L-30K7-UL-**-N

Luminaire EPA

PD-4H41901: PT-4H1901

Canada: creelighting-canada.com (800) 473-1234

US: creelighting.com (800) 236-6800

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LIGHTING

XSPMD LED Street/Area Luminaire – Medium

Field Adjustable Output (Q9/Q8/Q7/Q6/Q5/Q4/Q3/Q2/Q1) Option Description: The Field Adjustable Output option enables the street and area luminaire within the XSP Series on this page to be tuned to the exact needs of a particular application through multiple levels of adjustment. When ordered with the Q option, the luminaire will be shipped from the factory at the selected lumen output, will be fully

used in the 7-Pin receptacle. Locked Lumen Output (X8/X7/X6/X5/X4/X3/X2/X1) Option Description:

The Locked Lumen Output option on this page permanently locks the lumen output on the XSP Series street and area luminaire to the setting selected. When ordered output, and CCT of the setting selected. When this option is selected, the luminaire output is not able to be adjusted in the field except if a dimming control (by others) is

used in the 7-Pin receptacle.

with the X option, the luminaire will be shipped from the factory at the lumen output setting selected, and will include a utility label that indicates the wattage, lumen

adjustable between the outputs, and will include an ANSI C136.15-2020 utility label that indicates the wattage (rounded to nearest 10W), the lumen output (rounded to nearest 1000 lumens), and the CCT of the luminaire at the selected lumen output. Additional dimming functionality is available when a dimming control (by others) is

Q & X Option Power & Lumen Data – 12L

			System Watts*			Luman	Volum'			- (Utility Label				
© Option	XOption	CCTICRE	Sylvanii serate.			LEMON	Na del				Label Lam	terns			
Setting	Setting		120-498V	SNE/AME STOUSME/	59H	2L6 w/BLS	2ME w/BLS	3ME w/BLS	4ME w/BLS	Label Wattage	STO/SWEGWEITHE	55			
		3097		11,475	11,325	8,500	8,825	8,190	8,375		11000 L	1100			
Q#	N/A/Fe/I	4097	*5	11,800	11,875	8,725	9,075	8.375	8.625	100	12000 L				
	Powerl	50977] ~	11,875	11,875	8,800	9,150	8,625	8,675	100		1200			
		57K7		11,875	11,875	8,800	9,150	8,625	8,675						
		3097		11,125	10,975	8,225	8,575	7,900	8,125		11000 L	1100			
Q8		4097		11,425	11,700	8,450	8,800	8,100	8,350	70	TIOU L	1200			
GB .	205	50K7	70	11,500	11,425	8,500	8,850	8.175	8,400		12000 L				
		57K7]	11,500	11,425	8,500	8,850	8,175	8,400			1100			
	XT	3097		10,650	10,500	7,875	8,200	7,550	7,775	70	11000 L				
		4897] _	10,990	11,225	8,100	8,425	7,775	8,000			1100			
Q7		58K7	85	11,025	10,990	8,150	8,500	7,825	8,050			1100			
		5797	1	11,025	10,990	8,150	8,900	7,825	8,050						
		309.7		10,325	10,290	7,650	7,950	7,325	7,525		10000 L	1000			
		4897	1	10,625	10,875	7,875	8,175	7,550	7,750						
G6	X6	58K7	81	10,700	10,625	7,925	8,250	7,600	7,800	80	11080 L	1100			
		57K7		10,790	10,625	7,925	8,250	7,600	7,800						
	XS	3847		9,525	9,375	7,050	7,325	6,775	6,950		10080 L	900			
		4807	1	9,775	10,025	7,225	7,525	6,950	7,125	70					
Q5		501/7	74	9,850	9,775	7,300	7,575	7,000	7,200			1000			
		5797		9,850	9,775	7,300	7,575	7,000	7,200						
					38K7		8,925	8,825	6,600	6,875	6,325	6,525			
		4887		9,175	9,400	6,800	7,075	6,525	6,700						
G/i	304	5087	67	9,250	9,200	6,850	7,125	6,575	6,750	70	9000 L	900			
		579.7]	9,250	9,200	6,850	7,125	4,575	4,750						
		3847		8,100	7,975	6,000	6,225	5,750	5,925			800			
	ю	48K7		8,325	8,525	6,150	6,400	5,900	6,075		8000 L	900			
Ф		5087	40	8,375	8,325	6,200	6,450	5,950	6,125	40	83001	800			
		\$79.7		9,375	8,325	4,200	6,450	5,950	6,125			0.00			
		3047		7,350	7,250	5,450	5,450	5,225	5,375		7000 L	700			
	V-1	40147		7,550	7,750	5,575	5,825	5,350	5,500	pr.					
αz	32	50K7	54	7,625	7,575	5,850	5,875	5,425	5,575	50	8000 L	800			
		\$7K7		7,625	7,575	5,650	5,875	5,425	5,575		80001				
		301/7		6,700	4,425	4,960	5,150	4,760	4,990						
				4017]	6,900	7,075	5,100	5,325	4,900	5,025		2000.		

6,950 6,900 5,150 5,350 4,930 5,075

6,950 6,900 5,150 5,350 4,930 5,075

* Electrical and lumen data at 25°C (77°F). Actual waitage and lumen output may differ by +/-10% when operating between 128-217V or 367-688V +/-10% © 2023 Cree Lighting, A.company of IDEAL, INDUSTRIES, All rights reserved. For informational purposes only. Content is subject to change Patent www.creelighting.com/patents. Cree" and the Cree Lighting Logo are registered trademarks of Cree, Inc. NanoOptic" and Colorlast
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Synapse® is a registered trademark of Synapse Wireless, Inc. Verizon® is a registered trademark of Yerizon Trademark Services LLC.

CREE

LIGHTING US: creetighting.com [800] 236-6800 US: creelighting.com (800) 236-6800 Canada: creelighting-canada.com (800) 473-1234 Canada: creelighting-canada.com (800) 473-1234 Tenon EPA

2 (2 90"

Tenon Configuration If used with Cree Lighting tenons, please add tenon EPA with luminaire EPA

PO-2H4I90I: PT-2HI90I

Tenons and Brackets* (must specify color) pare Internal Mount Horizontal Tenons (Aluminum) Round External Mount Horizontal Tenons (Aluminum) - Nounts to 4" [102mm] square aluminum or steel poles
P0-1H4 - Single P0-3H4[90] - 90" Triple
P0-2H4[90] - 90" Twin P0-4H4[90] - 90" Quad
P0-2H4[180] - 180" Twin P0-4H4[90] - 90" Quad square pole with PB-1A" tenon
PT-1H - Single PT-3HI90| - 90" Triple
PT-2HI90| - 90" Twin PT-4HI90| - 90" Quad Wall Mount Brackets PT-2H(180) - 180° Twin Direct Arm Pole Adaptor Bracket

PD-3H4/90): PT-3H1901

B4 U0 62 11,875

US: creelighting.com (800) 236-6800 Canada: creelighting-canada.com (800) 473-1234

 Refer to the <u>Bracket and Tonors, specished</u> for more details.
 Specify pale size: 3 (3*1), 4 (4*), 5 (5*), or 6 (4*) for single, double or night. CREE \$ LIGHTING

BUG Initial BUG Initial Pelivered Ratings** Delivered Ratings** Delivered Per TM-15-11 Lumens* B1 U0 G2 8,675 B1 U0 G2 Initial delivered lumens at 25°C (17°F). Actual production pield may vary between -10 and +10% of initial delivered lumens. *Fer more information on the IES 800 Backlight-Uplight-Glare) Rating visit: <u>https://www.ies.org.hup-content/uploads/7007</u>0

CPY Series - Version C

Applications: Petroleum canopies, CNG fueling stations, soffits

Class I, Division 2 Hazardous Location for select models

CPY-AP304* - for use with Cree Lighting CAN-304 luminaires, 16 ga. 5052

XA-BXCCQ+ - for use with Whiteway Riviera or Rig-A-Lite, 20.60" [523mm]

Canppy Upgrade Kits [18 ga. steel, except where noted]

XA-BXCCM+ - for use with Jet-Philips, 21.60" [549mm] square

XA-BXCCR+ - for use with Elsco Merrit, 18.06" [499mm] square

XA-BXCCBP+ - 26.17" |665mm| Beauty Plate Only [18 ga. steel]

XA-BXXCBPB12+ - 25.15" [565mm] Beauty Plate [18 gs. steet] vs/12" [305mm] Backer Plate [16 gs. steet]

XA-BXCC8PB16+ - 26.17" [665mm] Beauty Plate [18 ga. steel] w/16" [406mm] Backer Plate (16 go. steel)

- For use in canapies where deck opening is larger than what is required for recursing the CPY250 luminaire. Maximum deck opening 12" x 15" [305mm x 375mm]

For use in canapies where deck opening is larger than what is required for mounting the CPY250 luminaire. Maximum deck opening 10.75" x 15"

XA-BXCCJB0X - 6.0" [152mm] H x 3/4" [19mm] NPT Stem

*Must specify color: BK Black I, BZ | Brenzel, SV | Severi or WH | White • Must specify color: T | Black I, Z | Bronzel, S | Severi or W | White)

Lumens 4000H, 90 CRI BL 50K7 8,000 5000K, 70 CRI Lumens 50K9 13L 5000H, 90 CRI 13,000 57K7 Lumens 5700K, 70 CRI 21L

XSPW™ LED Wall Mount Luminaire featuring Cree TrueWhite® Technology

The XSPW™ LED wall mount luminaire has a slim, low profile design intended for outdoor wall

mounted applications. The rugged lightweight aluminum housing and mounting box are designed

for installation over standard single gang J-Boxes and mud ring single gang J-Boxes. The luminaire

allows for through-wired or conduit entry from the top, bottom, sides and rear. The housing design is

management. Optic design features industry-leading NanoOptic® Precision Delivery Grid™ system in

intended specifically for LED technology including a weathertight LED driver compartment and thermal

Limited Warranty*: 10 years on luminaire/10 years on Colorfast DeltaGuard® finish/up to 5 years for

6L 6,100 lumens

Lamen Package selection codes identify approximate light output only. Actual lumen nutget levels may vary depending an CCT and optic selection. Refer to linitial Delivered Lumen tables for specific lumen values

multi-level aption, a minimum of one hand-held remote is required

Canada: creelighting-canada.com T (800) 473-1234

XSP Series

Product Description

multiple distributions.

Beauty Plate

Performance Summary

Applications: General area and security lighting

NanoOptic® Precision Delivery Grid™ optic

Synapse® accessories/1 year on accessories

Initial Delivered Lumens: Up to 8,475

CCT₁ 3000K, 4000K, 5000K, 5700K

*See http://medighting.com/somosty for warranty terms

WM-PLT14** - 14" [356mm] Square

Synapse* SimplySnap 10V Interface

Ordering Information

Example: XSPW-B-WM-2ME-2L-30K-UL-BK

USe creelighting.com [800] 236-6800

Canada: creelighting-canada.com [800] 473-1234

- Covers holes left by incumbent wall packs

- Refer to $\underline{\text{DIM}\,10\text{--}220\text{E}}$ spec sheet for details

- Requires other Synapse companents to complete

Assembled in the USA by Cree Lighting from US and imported parts

CRI: Minimum 70 CRI (3000K, 4000K & 5700K); 90 CRI (5000K)

Ordering Information Example: CPY250-C-13L-57K7-D-UL-DM-SV

Assembled in the USA by Cree Lighting from US and imported parts

CRI: Minimum 70 CRI [40K, 50K, 57K]; 80 CRI (30K); 90 CRI [40K, 50K]

The CPY250° LED Canopy/Soffit Luminaire has an extremely thin profile constructed of rugged cast

aluminum. It can be surface mounted easily from below the canopy deck and can be pendant mounted. Direct

Limited Warranty*: 10 years for luminaire/10 years for Colorfast DeltaGuard* finish/5 years for BML

*See http://coelighting.com/sacrasts for warranty terms. For Synapse accessories, consult Synapse spec sheets for details on warranty terms.

Pendant Mount Luminaires

XA-PS22KIT* - 15" (381mm) pendant

Includes two conduit fittings and 3/4-14 NPT pipe threaded on two

Synapse® SimplySnap 10V Interface

- Requires other Synapse components t

Refer to DIM 10-220E spec sheet for

4L-21L lumen Hook & Cord White Multi-Level Sensor

Available only with UL voltage

Refer to IIML spec sheet for details
 8-20' sensor tens installed on luminaire

20-40' sensor lens and aiste shreud

Not available with other controls

Pendant Mount Kits

complete system

sensor/up to 5 years for Synapse® accessories/1 year for field-installed accessories

imaging of the LEDs is eliminated with a highly efficient patterned flat or 0.91" [23mm] drop glass lens.

CPY250® LED Canopy/Soffit Luminaire

Product Description

Performance Summary

Efficacy: Up to 165 LPW

Initial Delivered Lumens: Up to 21,000

CCT: 3000K, 4000K, 5000K, 5700K

IP66 Rated [select models only]

Accessories

Field-Installed

Direct Mount Luminaires

Direct Hount Junction Box/Stem Kit

Direct Mount Beauty Plates

Product Specifications

Rex. Date: V705/18/2023

DM Mount / DM Mount with HZ Option

up to 4.25" (108mm)

Supplied Self-Sealing Sheet Metal Screws

— 11.0"—⇒

10KV 10kW5kA Surge Suppression

Not for use with BML as BML option

Not available with BML control or K option
 NSF 2 Certification

20 TO BEE WELL OF 2

Suitable for DN mount only
 Not available with BNL control or HZ option

Rev. Date: VersionB V6 08/03/2022

[ordered as an option]

11.8 lbs. [5.4kg]

Button Photocell.

Not available with ML or PML options

Available with UL and 34 voltages only

PML Programmable Multi-Level
- Refer to PML spec sheet for details
- Available with UL voltage only

CREE
LIGHTING

Weight 1.0 lbs. [5.0kg]

Class I, Div. 2 Hazardous Location

CONSTRUCTION & MATERIALS

Slim, low profile design

canopy thickness

CPY250® LED Canopy/Soffit Luminaire - Version C

Luminaire housing is constructed of rugged cast aluminum with integral heat sink specifically designed for LED

Direct mount is suitable for use in single or double skin canopies with a minimum 4.0" (102mm) wide panels and a minimum 22 gauge, 0.030" (0.7mm)

elf-sealing screws that provide a weathertight seal and includes 3/4" (19mm)

Direct mount luminaire mounts directly to the canopy deck with the drilling of a single 2" to 4" [51mm to 102mm] round hole, is secured in place with

. Hook and cord mount includes a 3' [0.91m] cord out of the luminaire and is

Standard pendant mount includes a mounting bracket and a J-Box for customer wiring and is intended to be mounted by 3/4 IP pendant (by others).

. Hazardous location pendant mount has a threaded hub which accepts 3/4"

. H6 mount includes cable gland with 3' [0.91m] cord out of the luminaire and is

Flush mount includes perimeter gasket, watertight cable gland and 6" [1.8m]

Exclusive Cotorfast DeltaGuard* finish features an E-Coat epoxy primer with an ultra-durable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Black, bronze, silver and white are

Integral 6kW/3kA surge suppression protection standard; 10kW/5kA surge

10V option provides continuous dimming to 10% with 0-10V DC control.

Reference <u>LED Dimming spec sheet</u> for additional dimming information

Use only lighting controls with neutral connection or controls intended for use with LED fotures

Suitable for wet locations when ordered with DM, DM mount w/HZ option, PD mount w/HZ option, FM and H6 mounts. Covered ceiling required only when not used with cULus Listed, wet location junction box or XA-BXCCJBOX.

Suitable for damp locations when ordered with HC and PD mounts. Designed

Enclosure meets IP66 requirements per IEC 60529 when ordered with DM, FM

ANSI C136.2 6kV/3kA (standard) and 10kV/5kA (optional) surge protection

· Meets FCC Part 15, Subpart B, Class A limits for conducted and radiated

Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117

Class I, Division 2 Hazardous Location rated when ordered with the DM or PD mount and the HZ option. Not available with K or BML options. Rated for Groups A, B, C & D. Bears a T3C [160°C] temperature classification within a

NSF Certified when ordered with DM mount and K option. Not available with HZ or BML options. Refer to http://info.nsf.org/Certified/Food/ for additional

Dark Sky Friendly, IDA Approved when ordered with 30K CCT and Flat Lens

DLC Premium qualified for Fuel Pump Canopies. DLC Standard qualified for

A CA RESIDENTS WARNING: Cancer and Reproductive Harm -

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Canada: creelighting-canada.com T (800) 473-1234

IFI. Please refer to https://www.darksky.org/our-work/lighting/lighting-for-industry/tsa/fsa-products/ for most current information

High-Bay\Low Bay Luminaires when ordered with 8L and 30k0, 40k9 and 50k9 CCTs, 13L or 21L lumen packages with all CCTs. Please refer to https://

Assembled in the USA by Cree Lighting from US and imported parts

Meets Buy American requirements within ARRA

· RoHS compliant. Consult factory for additional details

tested in accordance with IEEE/ANSI C62.41.2. BML option includes 10kV

When code dictates fusing, a slow blow fuse or type C/D breaker should be

NPT conduit (by others) and secures with a 1/4"-20 set screw

Flush mount attaches to ceiling with (4) self-drilling screws.

Easy mounting and servicing from below the deck

Flat lens is 0.125" tempered Solite" glass

intended to hang from the single hook

intended to hang from the single hook

Weight: 12.5 lbs. [5.7kg]

Power Factor: > 0.9 at full load

used to address inrush current

Maximum 10V Source Current: 1mA

REGULATORY & VOLUNTARY QUALIFICATIONS

ELECTRICAL SYSTEM

dULus Listed

for indoor use only

flexible watertight conduit out of luminaire

Input Voltage: 120-277V or 347-480V, 50/60Hz

Total Harmonic Distortion: < 20% at full load

Drop lens is 0.157" molded borositicate glass

Electrical data at 25°C 177°F1. Actual waitage may differ by 4/- 10% when operating between 120-277V or 347-480V 4/- 10% 121. not are itable in 347-480V.

Initial Reported Reported Reported Reported LMF LMF

1.02 0.99 0.93 0.88 0.83

1.02 0.98 0.93 0.87 0.82

1.01 0.98 0.92 0.87 0.82

1.01 0.97 0.92 0.86 0.81

1.00 0.97 0.91 0.86 0.81

0.99 0.96 0.90 0.85 0.80

0.99 0.95 0.90 0.85 0.80

0.99 0.94 0.87 0.82 0.76

0.98 0.95 0.89 0.84 0.79

0.98 0.94 0.89 0.84 0.79

0.97 0.92 0.87 0.81 0.76

Direct Mount to Direct Mount to Shee

Plywood Metal/Suspended

ames maintenance values at 25°C 177°FI are calculated per IES TN-21 based on IES LM-80 report data for the LED

aintenance factors. Please refer to the <u>Temporature Zano Reference Document</u> for outdoor average night time ambiest

ardance with IES TM-31, Reported values represent interpolated values based on time durations that are up to fix ad duration in the IES LM-80 report for the LED.

CPY Series (Version C) Ambient Adjusted Lumen Maintenance¹

2L-21L Plywood/

2L-21L Metal 1L-21L Plywood/

-13L Plywood/

2L-21L Metal

2L-13L Metal

2L-4L Metal.

Operating Temperature Range

Electrical Data*

Direct Mount to Direct Mount to Sheet

Package Plywood Metal/Suspended

-60°C to +45°C -60°C to +50°C

-40°C to +45°C -40°C to +50°C

To obtain an IES file specific to your project consult: https://www.creelighting.com/products/outdoor/canopy-and-soffit/cpv250-series

PD Mount w/HZ Option

Robert B. Pinkerton

 \mathcal{C}

remain the property of the Architect. They are not to be used on other projects or extensions to this project except by agreement in writing & with appropriate compensation to the Architect. Contractor is responsible for confirming and correlating dimension at job site; the Architect will not be responsible for construction means, methods, techniques, sequences or procedures, or for safety precautions and programs in connection with the project.

CROSLAND SOUTHEAST

<u> TENANT</u> 7-ELEVEN 3200 HACKBERRY RD, IRVING, TX 75063

CREE
LIGHTING A COMPANY OF IDEAL INDUSTRIES, INC.

Flat Glass Lens

Threaded Hub

CPY250® LED Canopy/Soffit Luminaire - Version C H6 Mount

Shown with BML

[ordered as an option]

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All published luminaire photometric testing performed to IES LM-79 standards. To obtain an IES file specific to your project consult:

Initial Delivered BUG Ratings**

Per TM-15-11

B1 U0 91

B1 U0 G2

B1 U0 B2

Mounting Height: 15' [4.6m] A.F.B. Initial Delivered Lumens: 8.475 Initial FC at grade

8,475

d lumens at 25°C (77°F). Actual production yield may sary between -10 and +10% of initial delivered lumens rmation on the IES 8UG IBlacklight-Uplight-Glarn) Rating visit: <u>https://www.ins.org.lup-content/uploads/2017/03/TM-15-110UGHatings/delendum.pdf</u>

US: creelighting.com T (800) 236-6800

XSPW™ LED Wall Mount Luminaire

Photometry

XSPW-B-**-4ME-8L-48K-UL

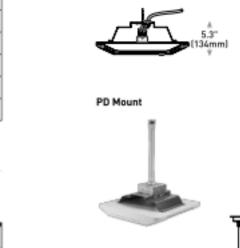
Type IV Medium Distribution

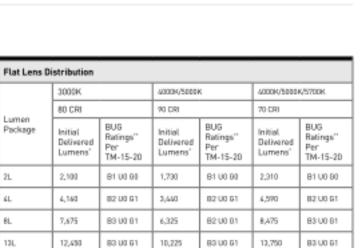
Lumen Package Initial Delivered BUG Ratings** Lumens* Per TM-15-11

B1 U0 62

B1 U0 G2

Canada: creelighting-canada.com T (800) 473-1234





CREE
LIGHTING

2,100 81 U1 G1 1,730 81 U1 G1 2,310 81 U1 G1

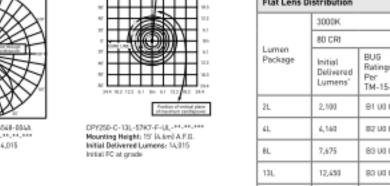
4,160 B2 U1 B1 3,440 B2 U1 B1 4,590 B2 U2 B1

7,675 80 U2 G1 6,325 82 U2 G1 8,475 83 U2 G1

12,450 B3 U2 B1 10,225 B3 U2 B1 13,750 B3 U2 B1

19,200 84 U2 G2 15,700 83 U2 G2 21,300 84 U2 G2





All published luminaire photometric testing performed to IES LM-79 standards. To obtain an IES file specific to your project consult:

Initial Delivered BUG Ratings** Lumens* Per TM-15-11

8,475

ers at 25°C (17°F). Actual production pield may sarp between -10 and +19% of initial delivered lamens ion on the RS 8UC (Backlight-Uplight-Olars) Rating visit: <u>https://www.ins.org/up-content/uploads/2017(ES</u>)

Mounting Height: 15' [4.6m] A.F.I Initial Delivered Lumens: 8,475 Initial PC at grade B1 U0 61

B1 U0 62

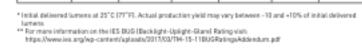
B2 U0 B2

Initial Delivered BUG Ratings** Lumens* Per TM-15-11

B1 U0 61

B1 U0 G2

B1 U0 62





US: creelighting.com T (800) 236-6800

XSPW™ LED Wall Mount Luminaire

XSPW-B-**-2ME-BL-40K-UL

Type II Medium Distribution

CESTL Test Report #: PL12366-807A. XSPW-B-**-3MG-8L-48K-UL

US: creelighting.com [800] 236-6800

Canada: creelighting-canada.com (800) 473-1234

men Package | Initial Delivered | BUG Ratings** | Lumens* | Per TM-15-11

B1 U0 62

B2 U0 G2

Canada: creetighting-canada.com T (800) 473-1234

FLAT LENS

CPY250® LED Canopy/Soffit Luminaire - Version C

All published luminaire photometric testing performed to IES LM-79 standards.

Photometry

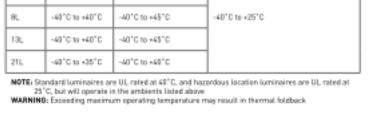
RESTL Test Report #: PL16573-001A CPY250-C-13L-57K7-D-UL-**-**-** Initial Delivered Lumens: 13.260

	# 2			1	10.2
	24.6 18	2 122 61	_	is fin	
	Y250-Counting		KT-F-U		
Ini	tial Deb tial PC a	vered L			

CPY250-C-13L-57KT-0-UL-**-**-** Mounting Height: 15' [A.Smi] A.F.G. Initial Delivered Lumens: 13,790

18.5 34.4		Lumens'	Per TM-15-20	Lumens'	Per TM-15
glave glove):	2L	2,100	81 00 00	1,730	B1 U0
	41.	4,160	02 U0 G1	3,440	82 U0
	8L	7,675	83 00 81	6,325	B2 U0
	13L	12,490	83 U0 G1	10,225	83 U0
	21L	19,200	84 U0 01	15,700	B3 U0
	* Initial delivered to lumens ** For mane infant https://www.ics.	ration on the IES		Jolight-Glarel R	ating visits

Drop Lens Distribution



XSPW™ LED Wall Mount Luminaire

Product Specifications CREE TRUEWHITE® TECHNOLOGY A revolutionary way to generate high-quality white light, Cree TrueWhite® Fechnology is a patented approach that delivers an exclusive combination. of 90+ CRI, beautiful light characteristics and lifelong color consistency, all while maintaining high luminous efficacy – a true no compromise solution.

- CONSTRUCTION & MATERIALS Slim, low profile design Luminaire housing specifically designed for LED applications with advanced LED thermal management and driver Luminaire mounting box designed for installation over standard single
- gang J-Boxes and mud ring single gang J-Boxes Luminaire can also be direct mounted to a wall and surface wired Secures to wall with four 3/16" [5mm] screws (by others) Conduit entry from top, bottom, sides, and rear
- Exclusive Colorfast DeltaGuard® finish features an E-coat epoxy primer with an ultra-durable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Silver, black, white and bronze are available Weight: 2L, 4L, 6L - 11.0 lbs. (5.0kg); 8L - 11.8 lbs. (5.4kg)

ELECTRICAL SYSTEM

- Input Voltage: 120-277V or 347-480V, 50/60Hz Power Factor: > 0.9 at full load Total Harmonic Distortion: < 20% at full load Integral 10kV/5kA surge suppression protection standard . When code dictates fusing, a slow blow fuse or type C/D breaker should be used to address inrush current
- Designed with 0-10V dimming capabilities. Controls by others 10V Source Current: 0.15 mA Refer to <u>Dimming spec sheet</u> for details Operating Temperature Range: -40°C - +50°C (-40°F - +122°F)
- REGULATORY & VOLUNTARY QUALIFICATIONS cULus Listed Suitable for wet locations Designed for downlight applications only
- Enclosure rated IP66 per IEC 60598 ANSI C136.2 10kV/5kA surge protection, tested in accordance with IEEE/ ANSI C62.41.2 Meets FCC Part 15, Subpart B, Class A limits for conducted and radiated
- elevated ambient salt fog conditions as defined in ASTM Standard B 117 Assembled in the USA by Cree Lighting from US and imported parts Meets Buy American requirements within ARRA RoHS compliant. Consult factory for additional details

Luminaire and finish endurance tested to withstand 5,000 hours of

- Dark Sky Friendly, IDA Approved when ordered with 30K CCT. Please refer to https://www.darksky.org/our-work/lighting/lighting-for-industry/fsa/fsa-products/ for most current information . DLC and DLC Premium qualified versions available. Please refer to
- https://gpl.designlights.org/solid-state-lighting for most current DLC Luna qualified when ordered with 4L-8L lumen packages and 30K CCT. Please refer to https://qpl.designlights.org/solid-state-lighting for most current information • A CA RESIDENTS WARNING: Cancer and Reproductive Harm -

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Canada: creelighting-canada.com (800) 473-1234

XSPW Series Ambient Adjusted Lumen Maintenance Factors ¹											
Ambient	Initial LMF	25K hr Reported ² LMF	50K hr Reported ² LMF	75K hr Estimated ⁰ LMF	100K hr Estimated ⁱ LMF						
5°C (41°F)	1.03	0.98	0.96	0.94	0.92						
10°C (50°F)	1.03	0.98	0.96	0.94	0.92						
15°C (59°F)	1.02	0.97	0.95	0.93	0.92						
20°C (68°F)	1.01	0.96	0.95	0.93	0.91						
25°C (777°F)	1.00	0.96	0.94	0.92	0.90						
30°C (86°F)	0.99	0.95	0.93	0.91	0.97						
35°C (95°F)	0.98	0.94	0.92	0.90	0.99						
40°C (104°F)	0.97	0.93	0.91	0.89	0.87						

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				0.89 based on ES LM-66 r ctors ILATFI have bee	
reaintenance factor conditions.	s. Plasse refer	to the Temporatur	e Zane Reference Do	current for outdoor a	verage nights
In accordance with up to 5s the tested of Estimated values:	duration in the	IES LM-68 report t	or the LEO.	alives based on time d	

Type III Medium Distribution men Package | Initial Delivered | BUG Ratings** | Initial Delivered | BUG Ratings** B1 U0 81 B1 U0 G1 81 U0 81 B1 U0 G2 B1 U0 G2 B1 U0 G2 B2 U0 B2 B1 U0 82

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BUG Ratings** Per TM-15-11

B1 U0 G1

B1 U0 G2

B2 U0 G2

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Drawing Size: 30 x 42	<i>Project #:</i> 22050						
Drawn By:	Checked By:						
ADF	ADF						
Title:							
LIGHTING FIXTURE DETAILS							

Engineer Name - ROBERT B. PINKERTON

THE SEAL & SIGNATURE APPLY ONLY TO THE DOCUMENT T

Engineer Number - 34942

Sheet Number: E0.4



Initial Delivered BUG Ratings** Lumens* Per TM-15-11

B1 U0 61

B1 U0 G2

B1 U0 62

itial delivered lumens at 25°C (17°F). Actual production yield may sary between -10 and +10% of initial delivered lumens. For more information on the IES BUG (Backlight-Uplight-Glare) Rating visits <u>https://www.ies.org/up-content/uploads/2017/03/TM-15-118/U</u>G

