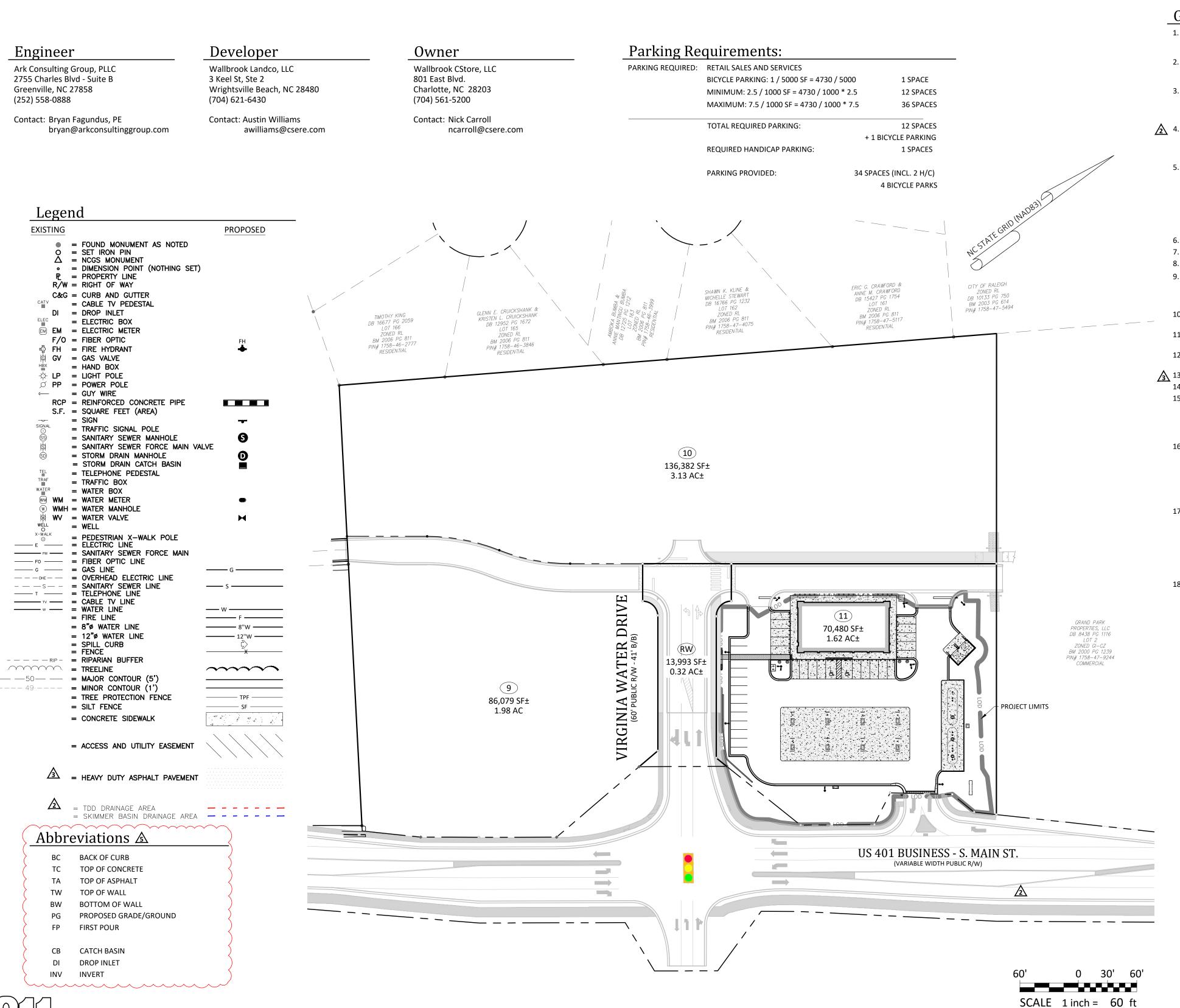
7ELEVEN AT WALLBROOK (LOT 11)

SITE DEVELOPMENT PLAN - SDP 23-04^a

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





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.
- EXISTING CONDITIONS AS DEPICTED ON THESE PLANS ARE GENERAL AND ILLUSTRATIVE IN NATURE AND MAY NOT INCLUDE ALL MECHANICAL FLECTRICAL AND MISCELLANEOUS STRUCTURES. IT IS THE RESPONSIBILITY OF 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 $\frac{1}{2}$ 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
- 13. ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED 14. SITE SHALL MEET ALL RELATED ACCESSIBILITY CODE REQUIREMENTS 15. BOUNDARY AND TOPOGRAPHIC SURVEY INFORMATION SHOWN HEREON WAS 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. ACTU 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 UTILITIES 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 CALCULATIONS AND REQUIREMENTS FOR THE WALLBROOK DEVELOPMENT

Vicinity Map

REVISIONS:

OSLANDJTHEAST

Site Data 🗚 🛦 WAKE COUNTY PIN: 1758-46-8940 REAL ESTATE ID: 509439 **CURRENT ZONING:** GC-CZ 1.62 AC TOTAL ACREAGE IN SITE:

TOTAL ACREAGE IN PROJECT LIMITS: 1.31 AC DISTURBED ACREAGE: 1.31 AC **Lower Neuse**

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

BUILDING FLOOR AREA: BUILDING LOT COVERAGE: 0% EXIST., 6.80% PROPOSED **BUILDING HEIGHT:** 21'5" (1 STORY)

TOTAL NUMBER OF PARKING SPACES REQUIRED: 12 SPACES (INCL. 1 H/C) + 1 BICYCLE SPACE 34 SPACES (INCL. 2 H/C) + 4 BICYCLE SPACES TOTAL SQ. FEET OF EXIST. IMPERVIOUS AREA: 52,347 SF (74%) TOTAL SQ. FEET OF PROP. IMPERVIOUS AREA:

DEVELOPMENT STANDARDS: REFERENCES: DB 19463, PG 2429-2432 BM 2023, PG 1603-1604 BM 1996, PG 187

748 S. MAIN STREET

SHEET INDEX

WATERSHED:

#	TITLE	
C0.1	COVER - OVERALL SITE PLAN	<u> </u>
C0.2	EXISTING CONDITIONS	\triangle
C1.0	EROSION CONTROL PLAN - Ph. 1	$\triangle \triangle \triangle \triangle$
C1.1	EROSION CONTROL PLAN - Ph. 2	\triangle
C1.2	EROSION CONTROL PLAN - Ph. 3	\triangle
C1.3	EROSION CONTROL NOTES	Λ
C1.4	EROSION CONTROL DETAILS	<u> </u>
C2.0	SITE PLAN	
C2.1	EASEMENT PLAN	\triangle
C3.0	UTILITY PLAN	\triangle \triangle
C4.0	GRADING PLAN	$\triangle \triangle \triangle$
C5.0	REQUIRED VEGETATION PLAN	$\triangle \triangle \triangle$
C6.0	DETAILS	\triangle
C6.1	DETAILS	<u>\$</u>
C6.2	DETAILS	<u>\$</u>
		A

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

ARCHITECTURAL BUILDING ELEVATIONS

BUFSTUDIO (5 SHEETS)

DETAILS

SITE LIGHTING PLAN - BUFSTUDIO (4 SHEETS)

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

Town of Rolesville Development Applications **企 企**

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)

EROSION CONTROL, STORMWATER AND FLOODPLAIN MANAGEMENT APPROVED

EROSION CONTROL X S-EC-119905-2024 STORMWATER MGMT. X S-WF-119906-202 FLOOD STUDY

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ENVIRONMENTAL CONSULTANT SIGNATURE

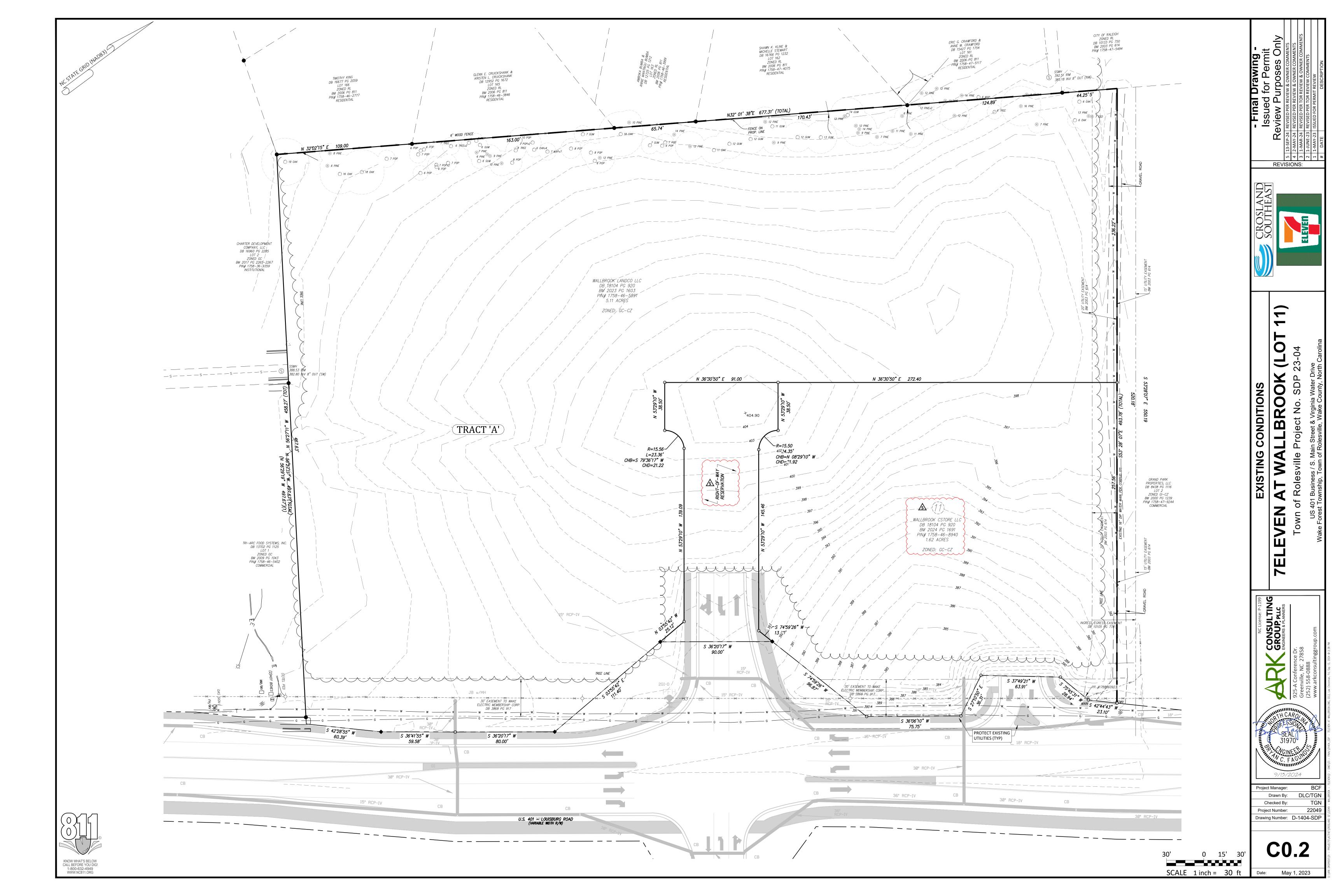


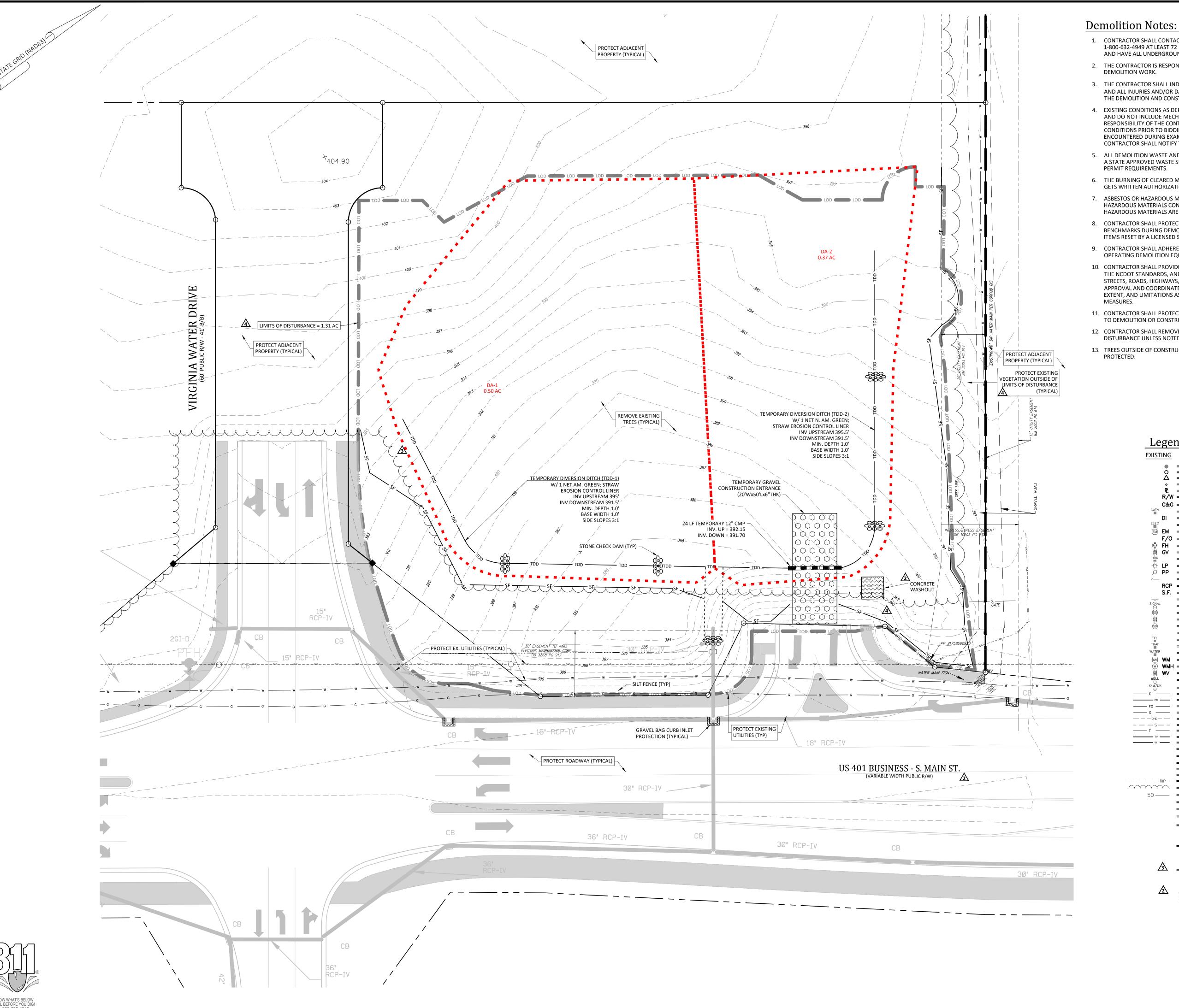
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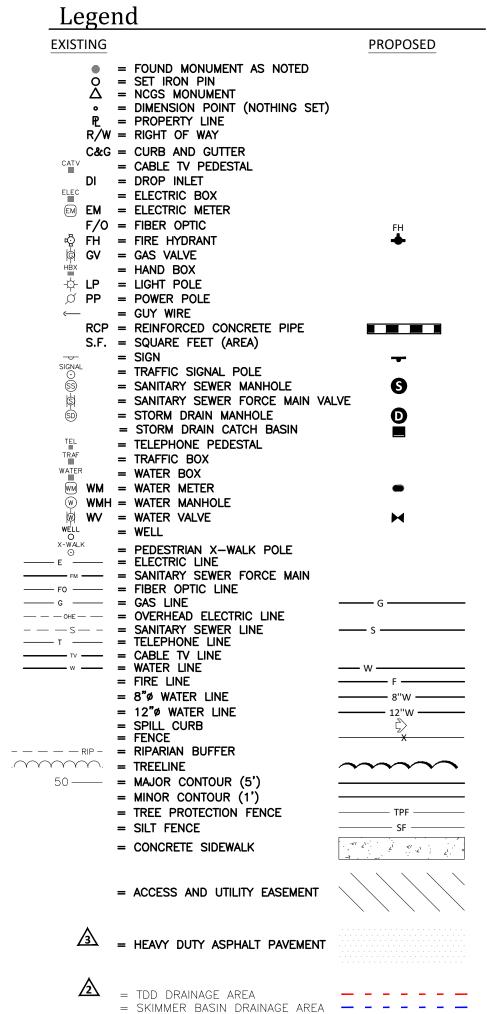
CONSULTII GROUP, PLLC







- 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
- 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 NOT INCLUDE MECHANICAL, ELECTRICAL AND MISCELLANEOUS STRUCTURES. IT IS THE RESPONSIBILITY OF 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 IMMEDIATELY.
- 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
- 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 ARE ENCOUNTERED.
- 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 COORDINATE WITH THE LOCAL AND/OR STATE AGENCIES REGARDING THE NEED, EXTENT, AND LIMITATIONS ASSOCIATED WITH INSTALLING AND MAINTAINING TRAFFIC CONTROL
- 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



REVISIONS:



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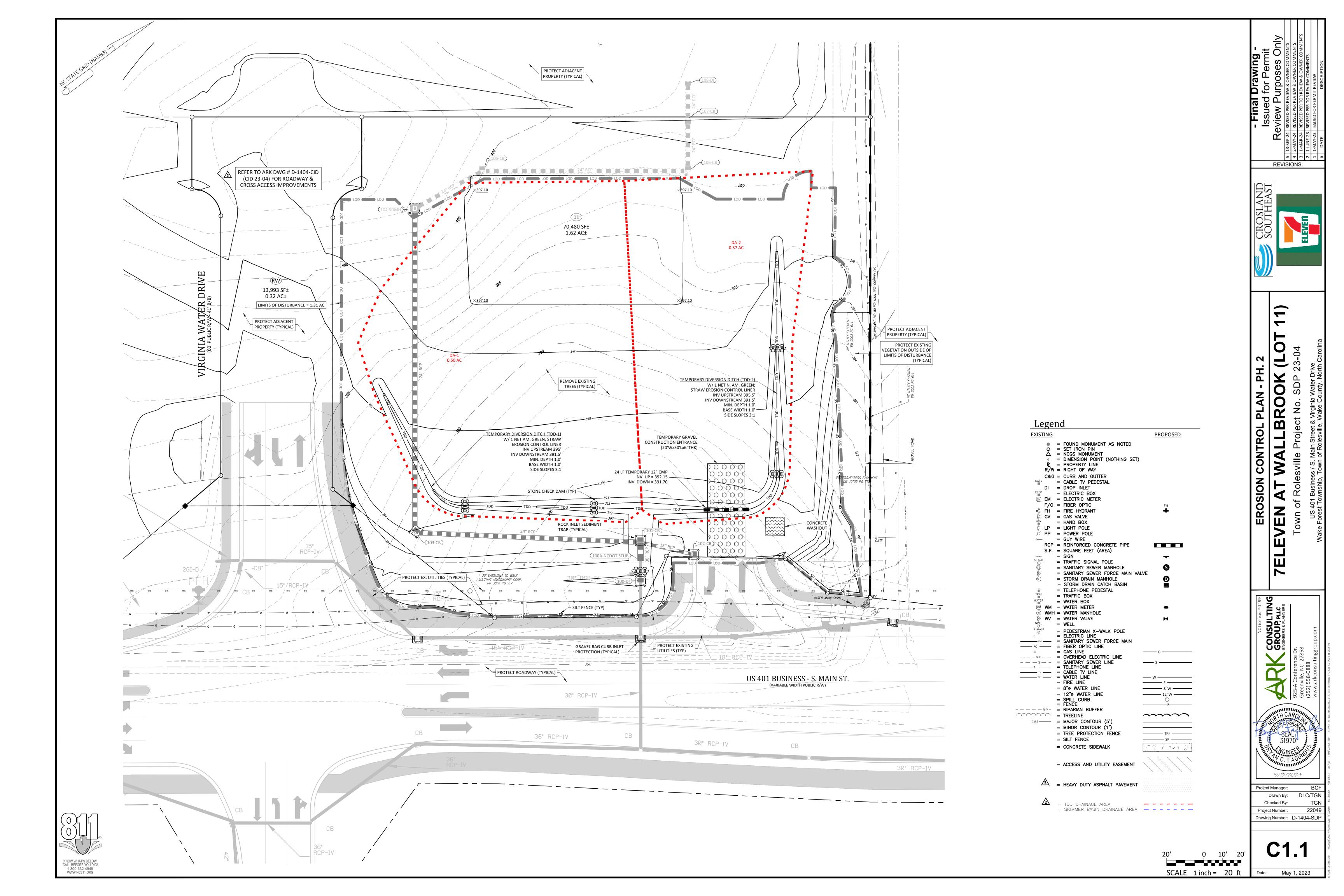
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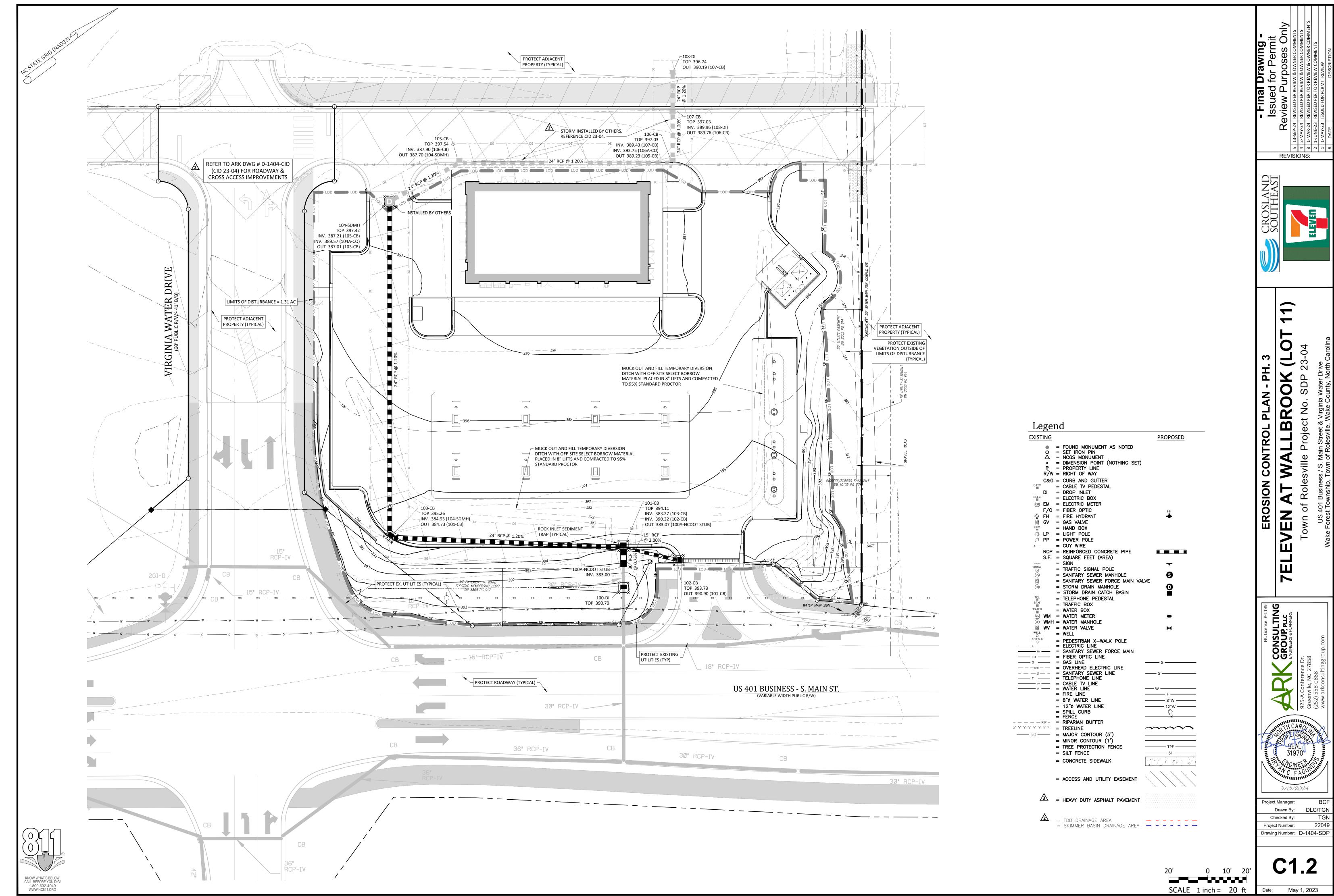
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CONSULTING GROUP, PLLC

Project Manager: Drawn By: Checked By: 22049 Drawing Number: D-1404-SDP

SCALE 1 inch = 20 ft





Required Ground Stabilization Timeframes										
Si	te 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
HydroseedingRolled 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
	Uniform and evenleyh distributed ground

cover sufficient to restrain erosion

or retaining walls

Structural methods such as concrete, asphalt,

Rolled erosion control products with grass seed

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.
- 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.

3.CONCRETE WASHOUT STRUCTURE NEEDS T BE CLEARY MARKED WITH SIGNAGE NOTING 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 a 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

Erosion Control Provisions:

DATE THAT THE LAND DISTURBING ACTIVITY WILL BEGIN.

OTHER AREAS SHALL BE STABILIZED WITHIN 14 DAYS.

IMPLEMENTATION PROVE TO BE INADEQUATE.

(919) 791-4200.

Construction Sequence:

DISTURBING ACTIVITIES OCCUR.

IMMEDIATELY AFTER CONSTRUCTION.

OBTAIN CERTIFICATE OF COMPLETION.

AREAS PER GROUND STABILIZATION TIME FRAME.

DIRECTED TO THE BASINS.

EROSION CONTROL MEASURES ARE INSPECTED AND APPROVED BY THE ENGINEER.

5. PROVIDE 20' X 50' X 6" STONE CONSTRUCTION ENTRANCES AS SHOWN ON PLAN.

ORDER OR CIVIL PENALTIES UP TO \$5000.00 PER DAY OF VIOLATION.

1. NO PERSON MAY INITIATE A LAND DISTURBING ACTIVITY BEFORE NOTIFYING WAKE COUNTY WATERSHED MANAGEMENT OF THE

2. LAND DISTURBING ACTIVITY BEYOND THAT REQUIRED TO INSTALL APPROPRIATE EROSION CONTROL MAY NOT PROCEED UNTIL

3. SCHEDULING OF A PRE-CONSTRUCTION CONFERENCE WITH THE WAKE COUNTY WATERSHED MANAGER, JEEVAN NEUPANE, PE

6. 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

CONTRACTOR SHALL INSPECT AND MAINTAIN AS NEEDED ALL EROSION CONTROL DEVICES ON A WEEKLY BASIS AND AFTER EACH

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

10. PLEASE BE ADVISED OF THE RULES TO PROTECT AND MAINTAIN EXISTING BUFFERS ALONG WATERCOURSES IN THE NEUSE AND RIVER

1. EROSION AND SEDIMENT CONTROL (E&SC) PERMIT AND A CERTIFICATE OF COVERAGE (COC) MUST BE OBTAINED BEFORE ANY LAND

4. INSTALL GRAVEL CONSTRUCTION PAD, TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS OR OTHER MEASURES AS SHOWN ON

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

7. 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

8. STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISH GRADE WITH VEGETATION, DITCH LININGS, ETC. SEED AND MULCH DENUDED

9. WHEN ROUGH GRADING IS COMPLETE AND ALL AREAS ARE STABILIZED COMPLETELY, CALL WATERSHED MANAGER JEEVAN NEUPANE

RESULTING BARE AREAS. ALL REMAINING PERMANENT EROSION CONTROL DEVICES, SUCH AS VELOCITY DISSIPATERS, SHOULD NOW

11. WHEN VEGETATION HAS BECOME ESTABLISHED, CALL FOR FINAL SITE INSPECTION BY THE WATERSHED MANAGER, JEEVAN NEUPANE.

THE APPROVED PLAN. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES. SEED TEMPORARY DIVERSIONS, BERMS AND BASINS

APPLICABILITY OF THESE RULES TO YOUR PROJECT TO THE REGIONAL WATER QUALITY SUPERVISOR, RALEIGH REGIONAL OFFICE AT

BASIN. THESE RULES ARE ENFORCED BY THE DIVISION OF WATER RESOURCES (DWR). DIRECT ANY QUESTIONS ABOUT THE

11. ALL AREAS DOWNSTREAM OF TEMPORARY BASINS AND DITCHES ARE TO BE STABILIZED IMMEDIATELY UPON CONSTRUCTION.

2. CALL WAKE COUNTY WATERSHED MANAGER JEEVAN NEUPANE AT (919) 819-8907 A MINIMUM OF 48 HOURS IN ADVANCE TO

5. CALL WATERSHED MANAGER, JEEVAN NEUPANE FOR AN ONSITE INSPECTION TO OBTAIN A CERTIFICATE OF COMPLIANCE.

AND STABILIZE IMMEDIATELY. DEWATERING OPERATIONS THROUGH SILT BAGS SHALL BE MONITORED CONTINUOUSLY.

10. IF SITE IS APPROVED, MAINTAIN TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS, ETC., AND SEED OR STABILIZED ANY

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 MONITORED.

8. THE ENGINEER RESERVES THE RIGHT TO REQUIRE ADDITIONAL EROSION CONTROL MEASURES SHOULD THE PLAN OR ITS

DISTURBING ACTIVITY. APPROVAL BY THE COUNTY DOES NOT SUPERSEDE ANY OTHER PERMIT OR APPROVAL

MAJOR STORM EVENT. FAILURE TO KEEP ALL EROSION CONTROL DEVICES IN PROPER WORKING ORDER MAY RESULT IN A STOP WORK

(919-819-8907) PRIOR TO INITIATING LAND DISTURBING ACTIVITIES IS REQUIRED. FOR INSPECTION CALL 919-819-8907. 48 HOUR

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 inspection 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 availal record the cumulative rain measurement for those un-attended da (and this will determine if a site inspection is needed). Days on whi no rainfall occurred shall be recorded as "zero." The permittee mause 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	Identification of the measures inspected, Date and time of the inspection, Name of the person performing the inspection, Indication of whether the measures were operating properly, Description of maintenance needs for the measure, Description, evidence, and date of corrective actions taken.
(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 the 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

requirement not practical:

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

(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 (Ref: 40 CFR 302.4) or G.S. 143-215.85.
- (b) Anticipated bypasses and unanticipated bypasses.
- (c) Noncompliance with the conditions of this permit that may endanger health or the environment.

2. Reporting Timeframes and Other Requirements

Occurrence

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.

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

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

- 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

i. Seeding or covering stockpiles with tarps or mulch is required and will

Seeding Specifications

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

	Stabilization Timeframes
days after cer	r Timeframe variations
, and 7	None
ster 7	None
then 7	If slopes are 10' or less in length and not steeper than 2:1, 14 days are: allowed
1 14	-7 days for slopes greater than 50° is length and with slopes steeper than -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones: -10 days for Falls Lake Watershed
es <u>14</u>	days for perimeter dikes, swales, ditches, perimeter slopes and HQW -10 days for Falls Lake Watershed in there is zero slope.
hall be converted to	permanent ground stabilization as soon as calendar days after the last land disturbing
round stabilization : accelerated erosion ION SPECIFICATION	that be maintained in a manner to render to until permanent ground stabilization is ach
round stabilization : accelerated erosion ION SPECIFICATION sufficiently so that re	thall be maintained in a manner to render to until permanent ground statisfization is ach in will not dislodge the soil. Use one of the Permanent Stabilization
	many calend days after deland disturbs 5, and 5 s s s s s s s s s s s s s s s s s s

- 1. Chisel compacted areas and spread topsoil three inches deep over adverse soil conditions, if available.
- Rip the entire area to six inches deep 3. Remove all loose rock, roots and other obstructions, leaving surface
- reasonably smooth and uniform 4. Apply agricultural lime, fertilizer and superphosphate uniformly and mix with soil (see mixture below)
- 5. Continue tillage until a well-pulverized, firm, reasonably uniform seedbed is prepared four to six inches deep.
- 6. Seed on a freshly prepared seedbed and cover seed lightly with seeding equipment or cultipack after seeding. 7. Mulch immediately after seeding and anchor mulch.

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

maintenance treatment and fertilization after permanent cover is established

Asphalt emulsion at 400 gals/acre

9. Consult Wake County Soil & Water or NC State Cooperative Extension on

Agricultural Limestone 2 tons/acre (3 tons/acre in clay soils) 1,000 lbs/acre - 10-10-10 500 lbs/acre – 20% analysis 2 tons/acre – small grain straw

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

Planting Rate 300 lbs/acre Tall Fescue & Abruzzi Rve 300 lbs/acre 300 lbs/acre

Apr 15- Hulled Common

Tall Fescue AND Browntop 125 lbs/acre (Tall Fescue); 35 Aug 15 Millet or Sorghum-Sudan Ibs/acre (Browntop Millet); 30 lbs/acre (Sorghum-Sudan Hybrids)

4. INSTALL TREE PROTECTION FENCING AROUND ALL AREAS OUTSIDE OF THE LIMITS OF DISTURBANCE AS SHOWN ON PLANS.

Planting Rate Sericea Lespedeza (scarified)

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

50 lbs/acre (Sericea Lespedeza); and use the following combinations: 120 lbs/acre

Or add Weeping Love grass 10 lbs/acre

Mar 1- Or add Hulled Common

AND Abruzzi Rye

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

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

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

> Drawn Bv: Checked By

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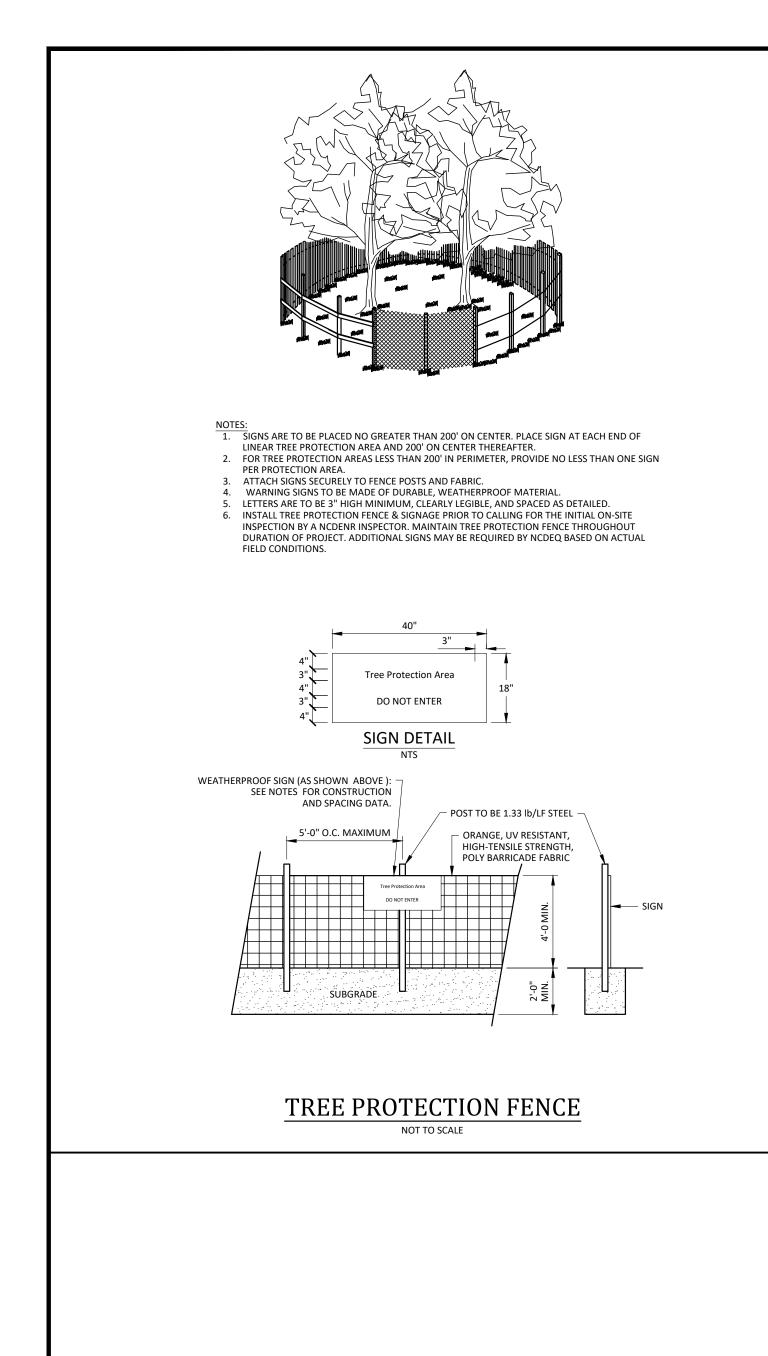
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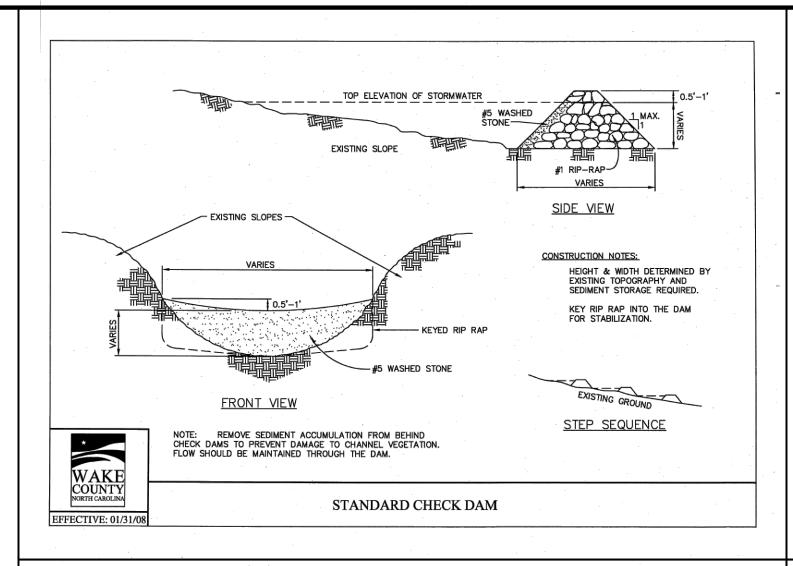
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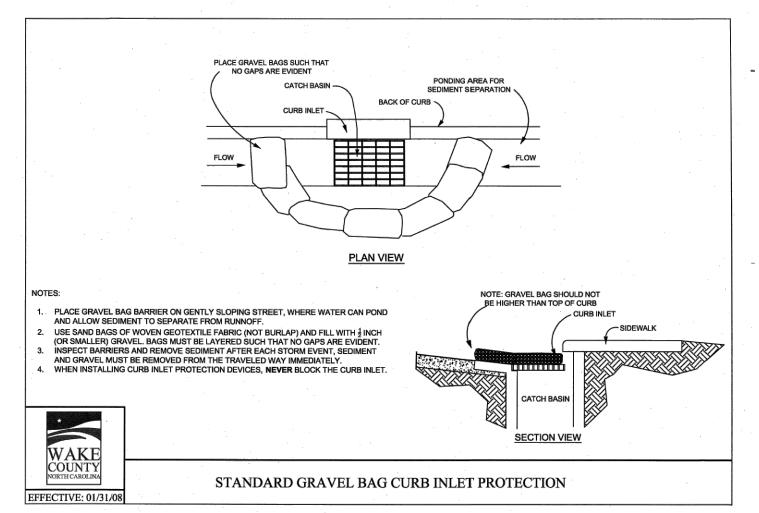
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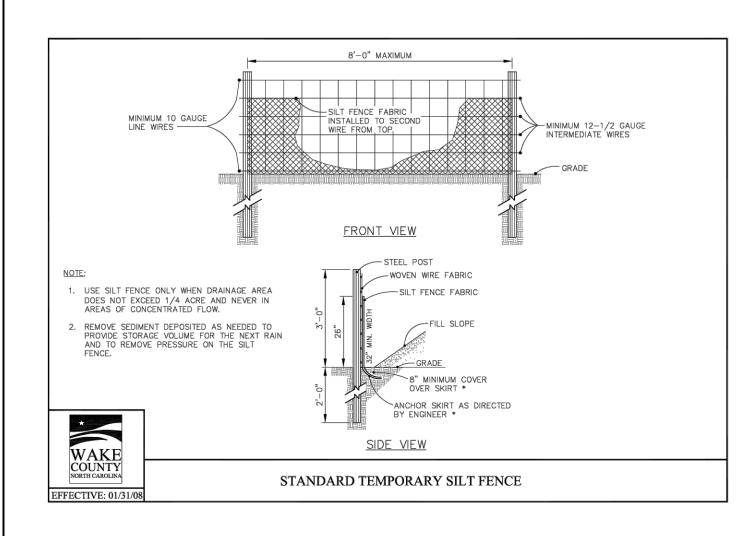
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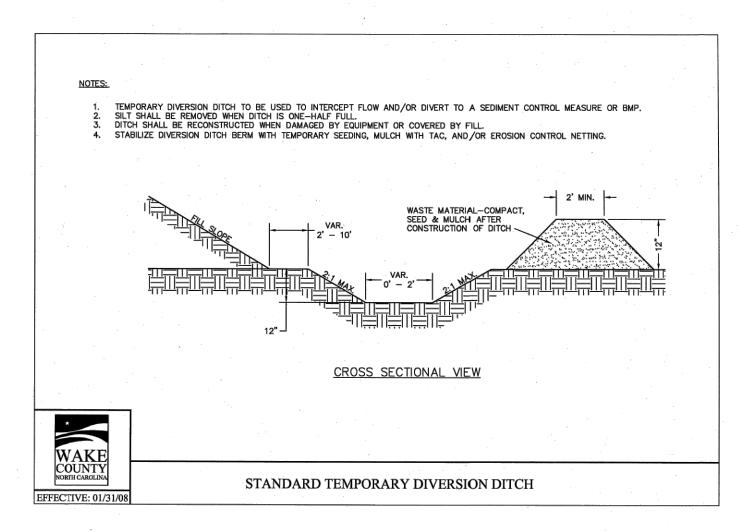
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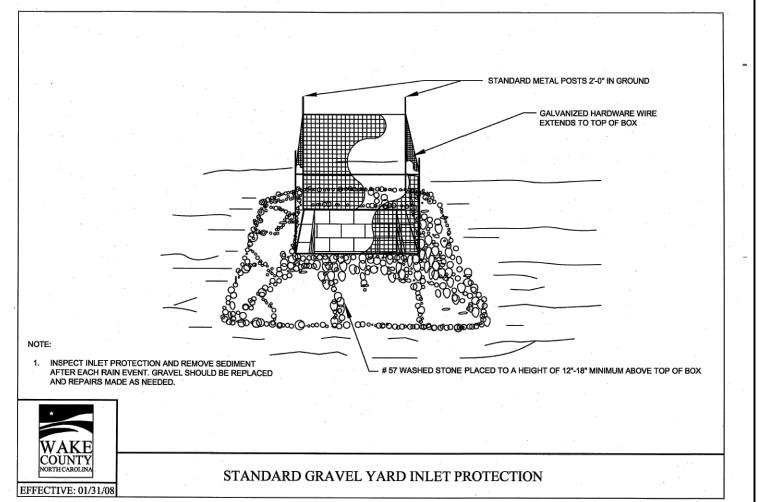


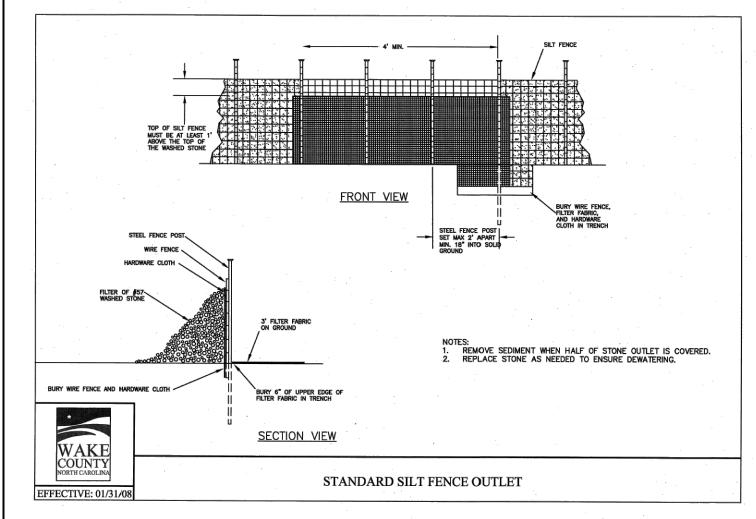


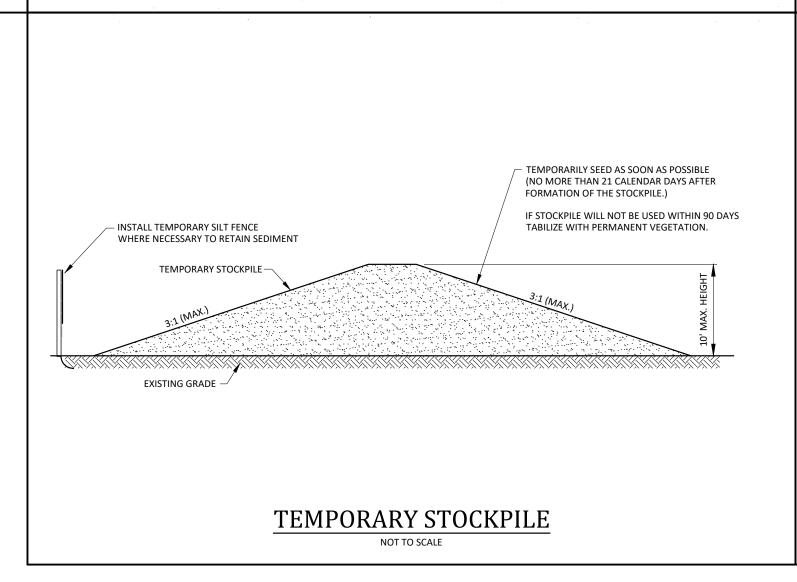


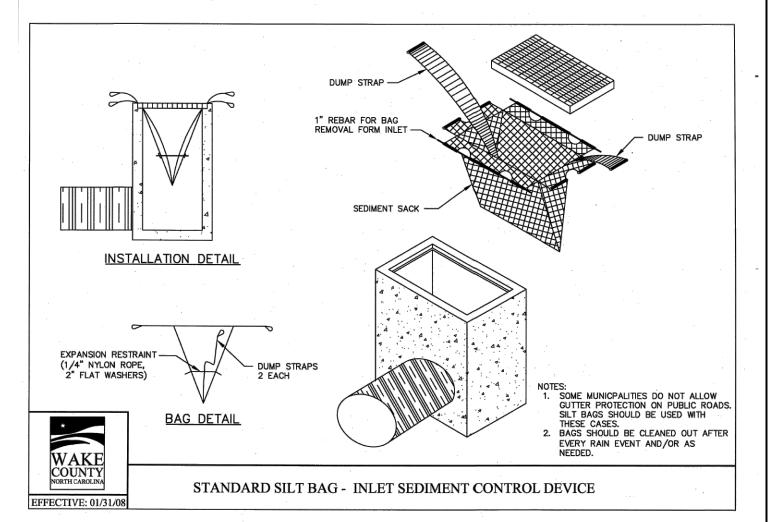


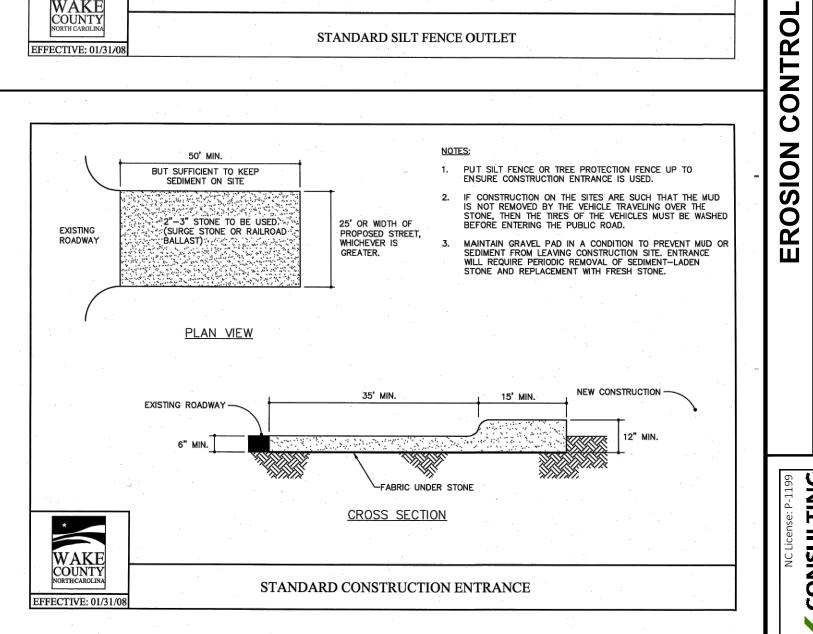












Vegetated Swale	Design
Project:	Wallbrook
Location:	Rolesville, Wake County, N

											Base	Left	Right	Flow			Wetted	Wetted	Hydraulic						Allowable Shear
Device		Add'l Flow	Disturbed	Tc	Intensity		Qreq	Up	Down	Length	Width	Slope	Slope	Depth		Slope	Area	Perimeter	Radius	Velocity	Qa				Stress, $ au$
ID	Device Type	(cfs)	Area (AC)	(min)	(in/hr)*	С	(cfs)	Invert	Invert	(ft)	(ft)	(x:1)	(x:1)	(ft)	Manning's n	(ft/ft)	(sf)	(ft)	(ft)	(ft/s)	(cfs)	Qa>Qreq?	$ au$ (lbs/ft 2)	Liner Type	(lbs/ft ²)
TDD-1	Temporary Diversion	0	0.50	5	7.18	0.5	1.80	395	391.5	176	1	3	3	0.97	0.020	0.01989	3.77	7.30	0.52	0.48	1.80	Yes	1.199097027	N. Am. Green; Straw; 1 nets	1.55
TDD-2	Temporary Diversion	0	0.37	5	7.18	0.5	1.33	395.5	391.5	205	1	3	3	0.87	0.020	0.01951	3.17	7.25	0.44	0.42	1.33	Yes	1.065303643	N. Am. Green; Straw; 1 nets	1.55

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

NC License: P-1199
Septimized Septembers

REVISIONS:

CROSLAND Southeast

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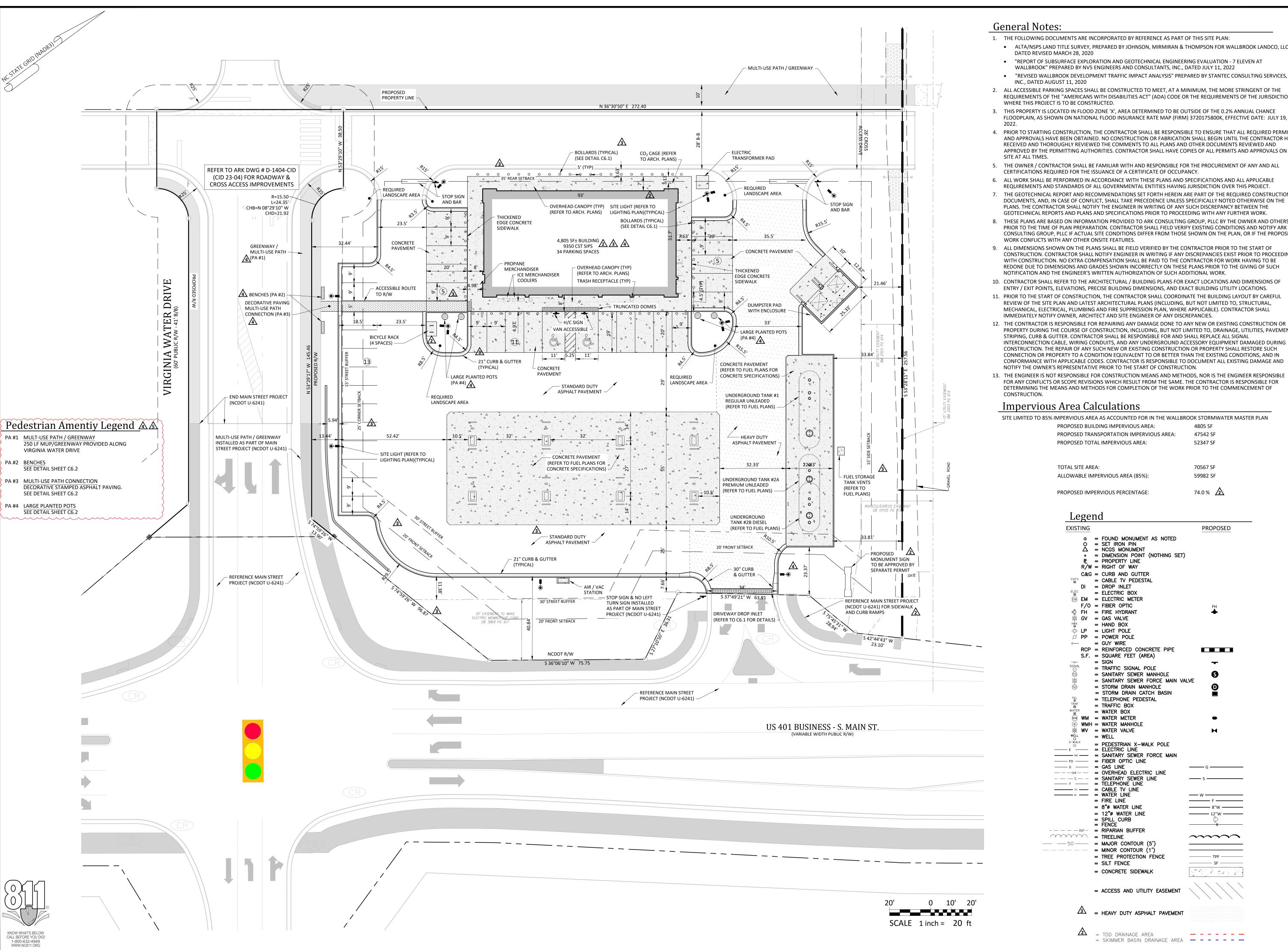
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DETAIL

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

te: May 1, 2023



- 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
- 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: 4805 SF

47542 SF PROPOSED TRANSPORTATION IMPERVIOUS AREA: 52347 SF PROPOSED TOTAL IMPERVIOUS AREA:

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

PROPOSED IMPERVIOUS PERCENTAGE: 74.0 % /2

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EXISTING		PROPOSED
O :	= FOUND MONUMENT AS NOTED = SET IRON PIN = NCGS MONUMENT = DIMENSION POINT (NOTHING SET) = PROPERTY LINE = RIGHT OF WAY = CURB AND GUTTER	
	= CABLE TV PEDESTAL = DROP INLET	
EM EM :	= ELECTRIC BOX = ELECTRIC METER	
∯ FH : G GV :	= FIBER OPTIC = FIRE HYDRANT = GAS VALVE = HAND BOX	FH ♣
↓ LP : Ø PP :	= HAND BOX = LIGHT POLE = POWER POLE = GUY WIRE	
RCP : S.F. :	= REINFORCED CONCRETE PIPE = SQUARE FEET (AREA) = SIGN	
SIGNAL SS	= TRAFFIC SIGNAL POLE = SANITARY SEWER MANHOLE = SANITARY SEWER FORCE MAIN VALVE	6
TEL TRAF WATER	= STORM DRAIN MANHOLE = STORM DRAIN CATCH BASIN = TELEPHONE PEDESTAL = TRAFFIC BOX = WATER BOX	D
WM WM = W WMH = W WV = WELL	= WATER METER = WATER MANHOLE = WATER VALVE = WELL	• H
X-WALK : E :	= PEDESTRIAN X-WALK POLE = ELECTRIC LINE = SANITARY SEWER FORCE MAIN	
G : OHE : S :	= OVERHEAD ELECTRIC LINE	- s
TV —— = W —— = = = = = = = = = = = = = = =	= CABLE TV LINE = WATER LINE = FIRE LINE	W —
:		8"W ————————————————————————————————————
——————————————————————————————————————	= RIPARIAN BUFFER = TREELINE = MAJOR CONTOUR (5')	~~~
.	= MINOR CONTOUR (1')	TPF

= SILT FENCE

= CONCRETE SIDEWALK

= ACCESS AND UTILITY EASEMENT

= SKIMMER BASIN DRAINAGE AREA -----

= HEAVY DUTY ASPHALT PAVEMENT

= TDD DRAINAGE AREA

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CONSULTIN GROUP, PLLC Project Manager: Drawn Bv: Checked By: 22049 Drawing Number: D-1404-SDP

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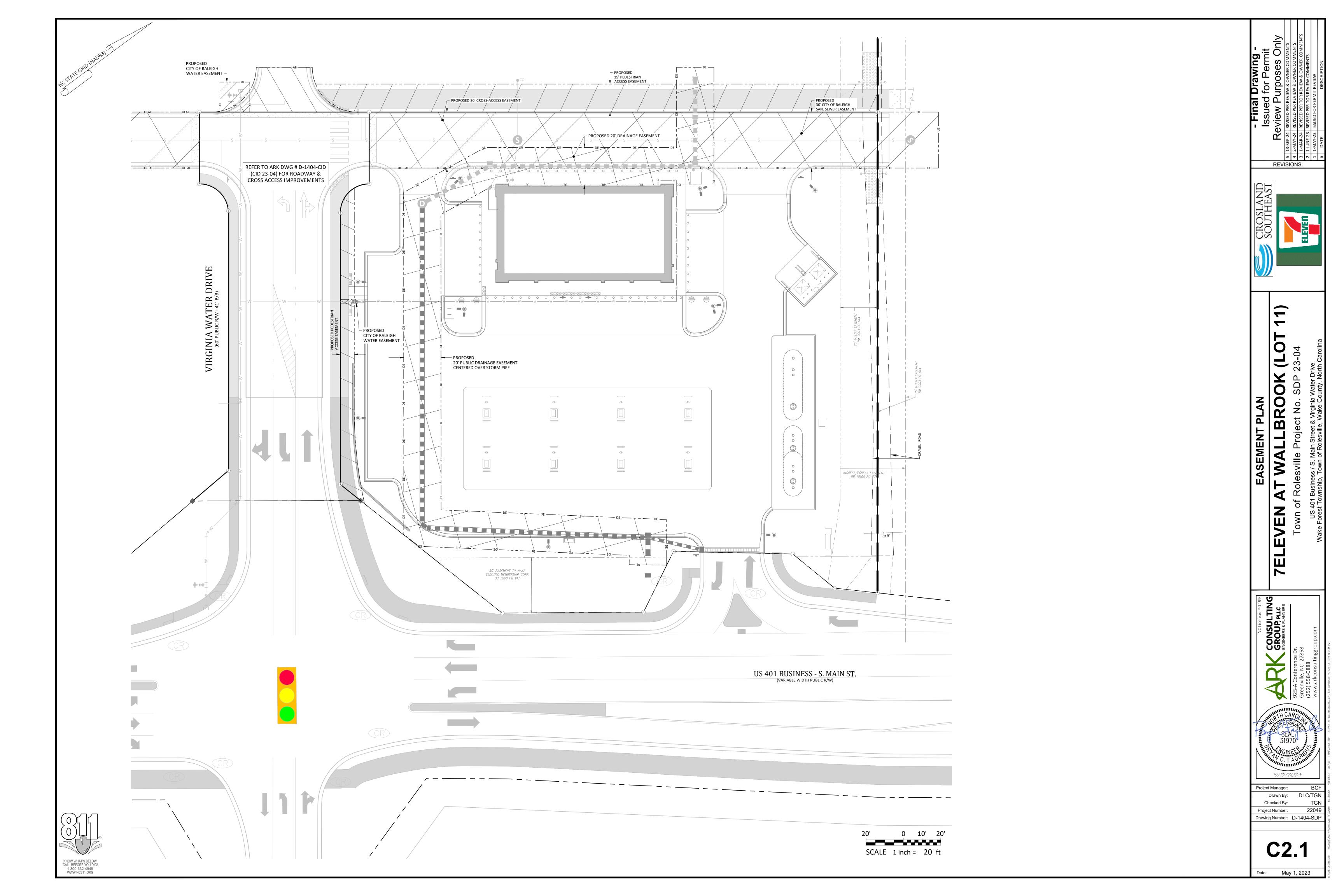
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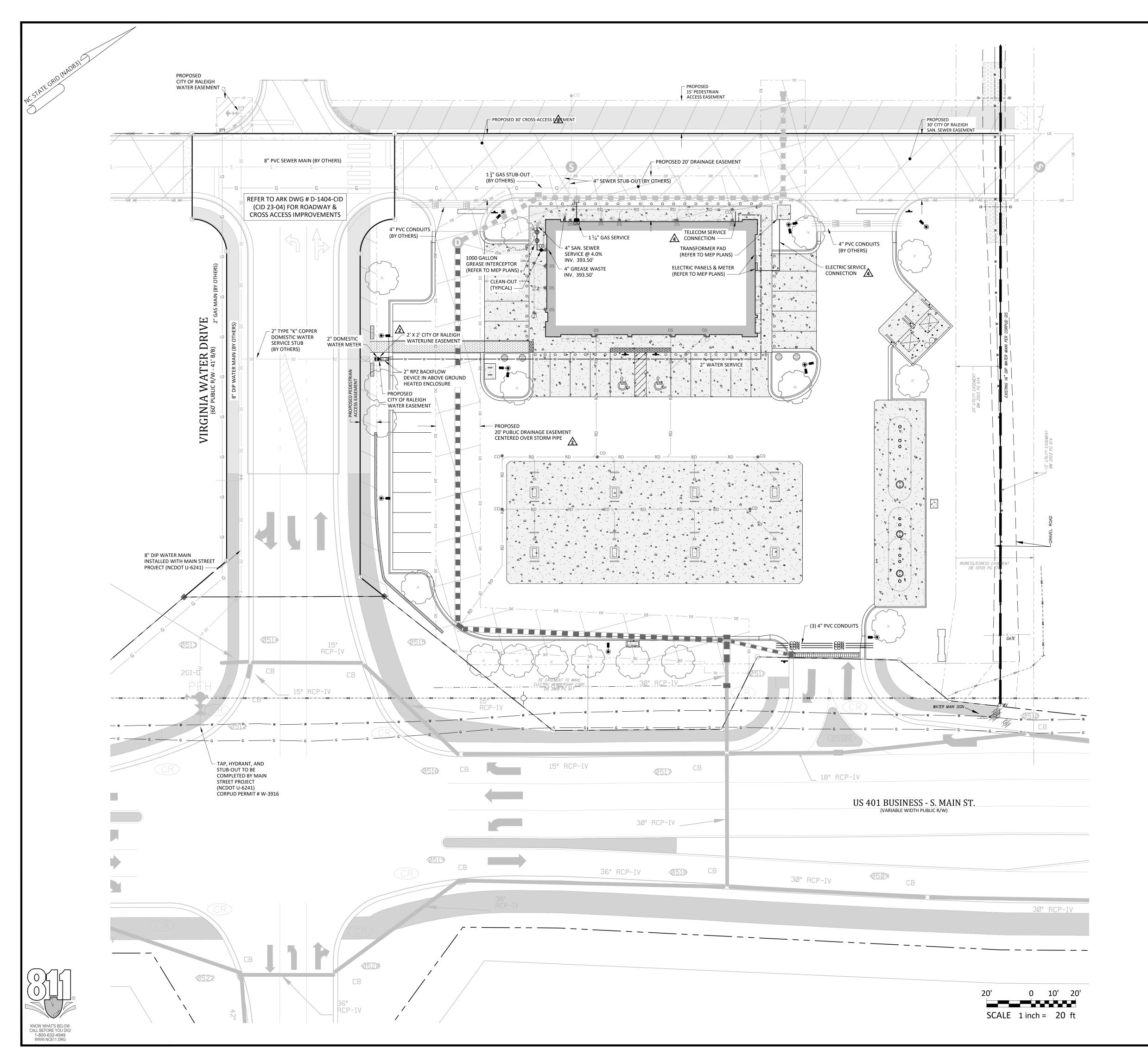
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May 1, 2023





- 1. ALL MATERIALS & CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH CITY OF RALEIGH DESIGN STANDARDS, DETAILS & SPECIFICATIONS (REFERENCE: CORPUD
- 2. UTILITY SEPARATION REQUIREMENTS:
- 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.
- 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 WATERLINE SPECIFICATIONS.
- d) 5.0' MINIMUM HORIZONTAL SEPARATION IS REQUIRED BETWEEN ALL SANITARY SEWER & STORM SEWER FACILITIES, UNLESS DIP MATERIAL IS SPECIFIED FOR SANITARY SEWER. e) MAINTAIN 18" MIN. VERTICAL SEPARATION AT ALL WATER MAIN & RCP STORM DRAIN CROSSINGS; MAINTAIN 24" MIN. VERTICAL SEPARATION AT ALL SANITARY SEWER & RCP
- CORPUD DETAILS W-41 & S-49). f) ALL OTHER UNDERGROUND UTILITIES SHALL CROSS WATER & SEWER FACILITIES WITH
- 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
- MINIMUM COVER IS REQUIRED ON ALL REUSE MAINS.
- SEWER SERVICES NOT BEING USED IN REDEVELOPMENT OF A SITE UNLESS OTHERWISE DIRECTED BY CORPUD. THIS INCLUDES ABANDONING TAP AT MAIN & REMOVAL OF SERVIC FROM ROW OR EASEMENT PER CORPUD HANDBOOK PROCEDURE.
- 7. INSTALL PVC WATER SERVICES WITH METERS LOCATED AT ROW OR WITHIN A 2' X 2' WATERLINE EASEMENT IMMEDIATELY ADJACENT.
- NCDWQ, USACE &/OR FEMA FOR ANY RIPARIAN BUFFER, WETLAND &/OR FLOODPLAIN IMPACTS PRIOR TO CONSTRUCTION.
- WORK (INCLUDING MAIN EXTENSIONS & SERVICE TAPS) WITHIN STATE OR RAILROAD
- 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.
- 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.

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.

C3.0

Drawing Number: D-1404-SDP

22049

REVISIONS:

ROSLAND OUTHEAST

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CONSULTIN GROUP, PLC

May 1, 2023

Project Manager: Drawn By:

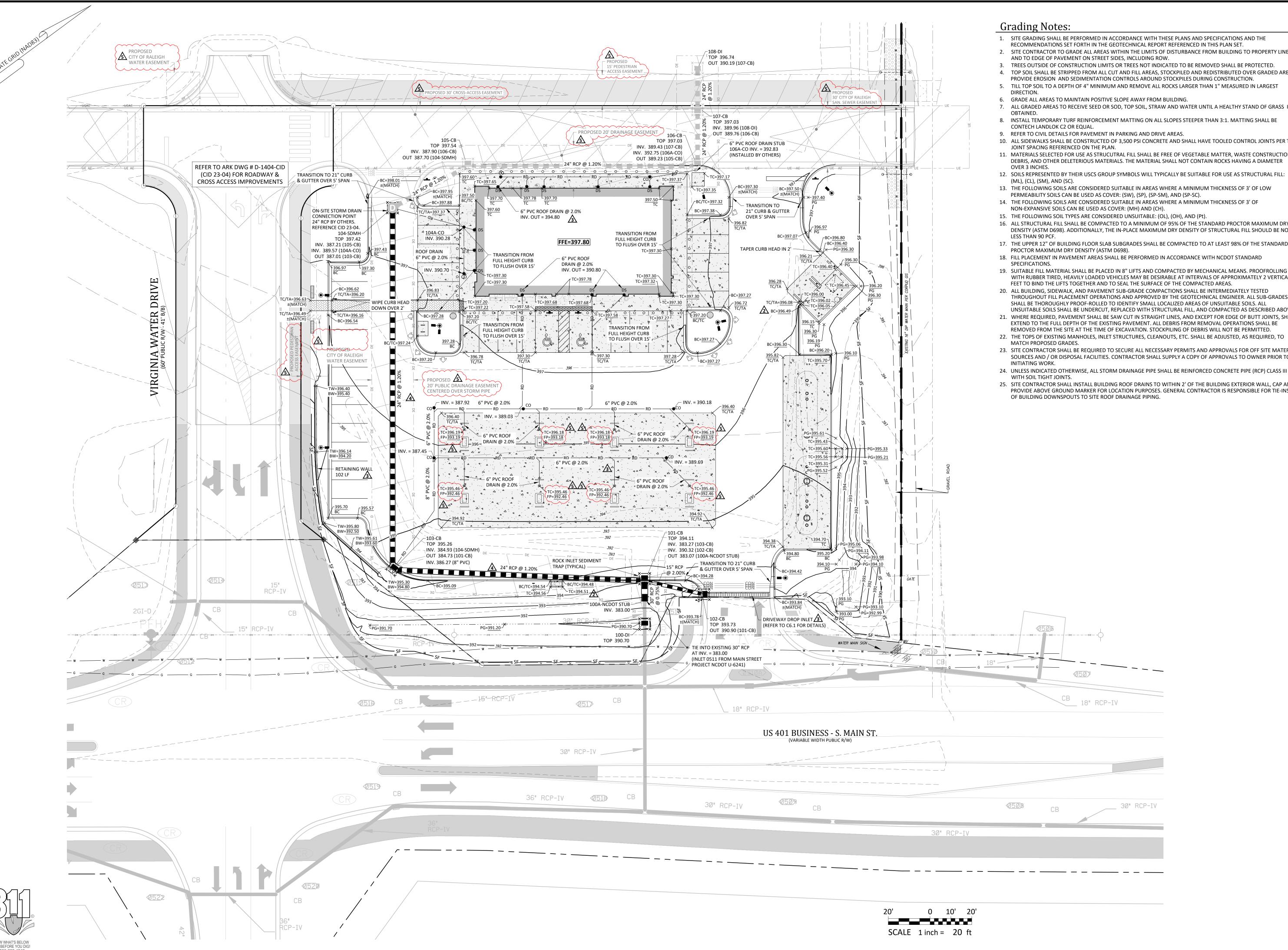
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Project Number:

CORPUD Standard Utility Notes:

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

- STORM DRAIN CROSSINGS. WHERE ADEQUATE SEPARATIONS CANNOT BE ACHIEVED, SPECIFY DIP MATERIALS & A CONCRETE CRADLE HAVING 6" MIN. CLEARANCE (PER
- 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.
- 5. 3.0' MINIMUM COVER IS REQUIRED ON ALL WATER MAINS & SEWER FORCEMAINS. 4.0'
- 6. IT IS THE DEVELOPERS RESPONSIBILITY TO ABANDON OR REMOVE EXISTING WATER &
- 8. INSTALL PVC SEWER SERVICES @ 1.0% MINIMUM GRADE WITH CLEANOUTS LOCATED AT ROW OR EASEMENT LINE & SPACED EVERY 75 LINEAR FEET MAXIMUM.
- 9. PRESSURE REDUCING VALVES ARE REQUIRED ON ALL WATER SERVICES EXCEEDING 80 PSI; BACKWATER VALVES ARE REQUIRED ON ALL SANITARY SEWER SERVICES HAVING BUILDING DRAINS LOWER THAN 1.0' ABOVE THE NEXT UPSTREAM MANHOLE. 10. ALL ENVIRONMENTAL PERMITS APPLICABLE TO THE PROJECT MUST BE OBTAINED FROM
- 11. NCDOT / RAILROAD ENCROACHMENT AGREEMENTS ARE REQUIRED FOR ANY UTILITY
- 12. GREASE INTERCEPTOR / OIL WATER SEPARATOR SIZING CALCULATIONS & INSTALLATION
- 13. CROSS-CONNECTION CONTROL PROTECTION DEVICES ARE REQUIRED BASED ON DEGREE
- 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.
- 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.



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.

4. TOP SOIL SHALL BE STRIPPED FROM ALL CUT AND FILL AREAS, STOCKPILED AND REDISTRIBUTED OVER GRADED AREAS. PROVIDE EROSION AND SEDIMENTATION CONTROLS AROUND STOCKPILES DURING CONSTRUCTION.

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

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

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

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

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

25. SITE CONTRACTOR SHALL INSTALL BUILDING ROOF DRAINS TO WITHIN 2' OF THE BUILDING EXTERIOR WALL, CAP AND PROVIDE ABOVE GROUND MARKER FOR LOCATION PURPOSES. GENERAL CONTRACTOR IS RESPONSIBLE FOR TIE-INS

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REVISIONS:

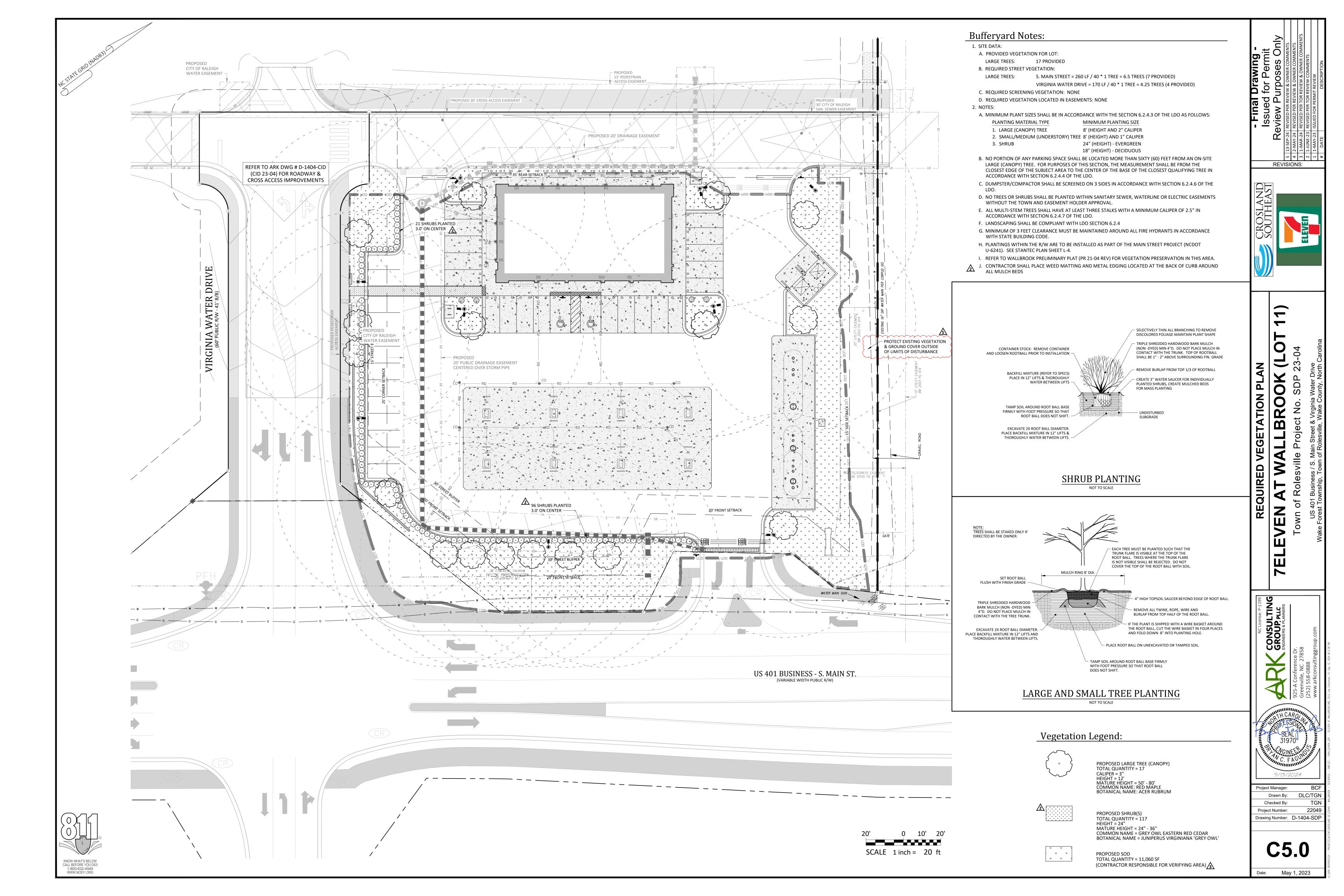
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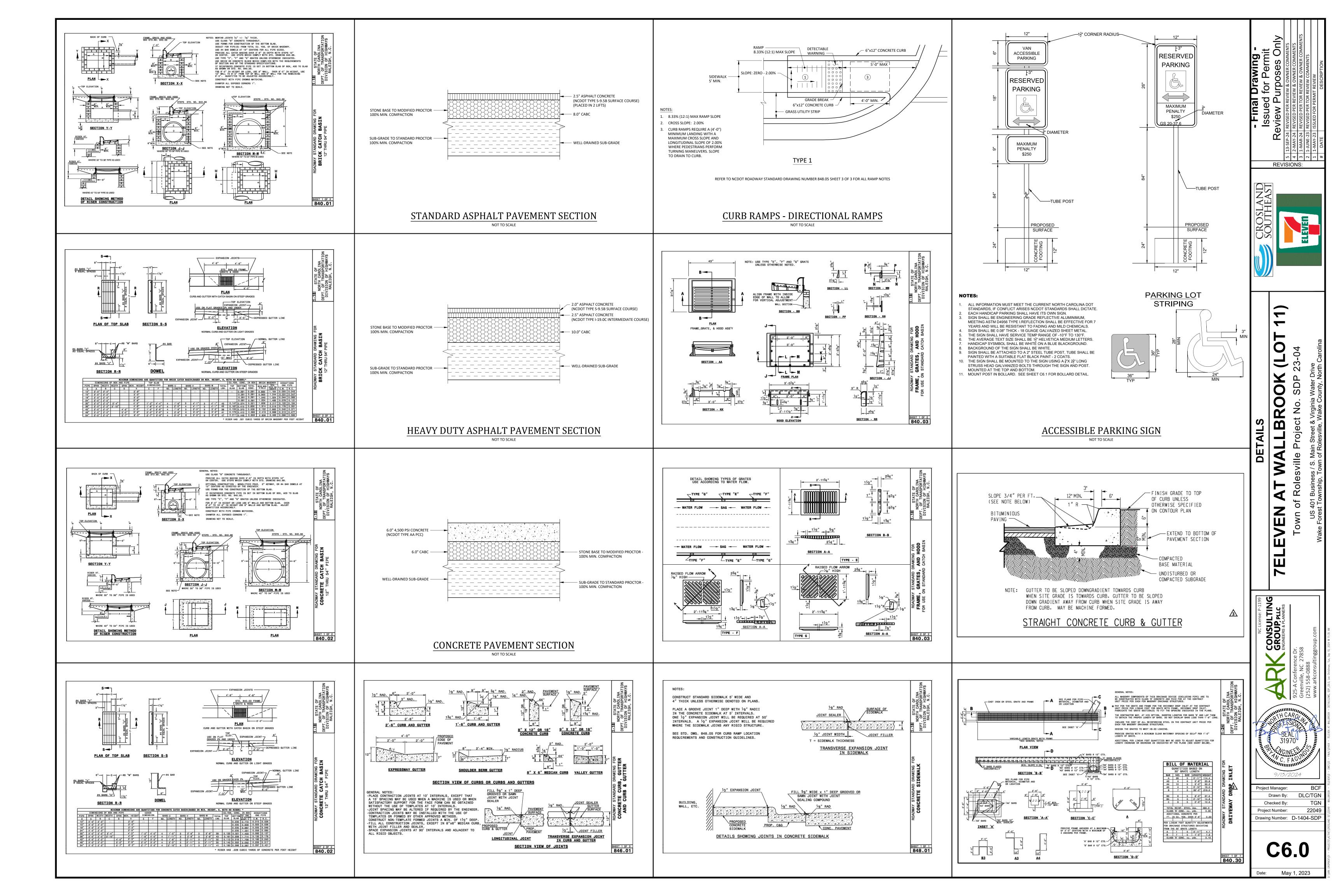
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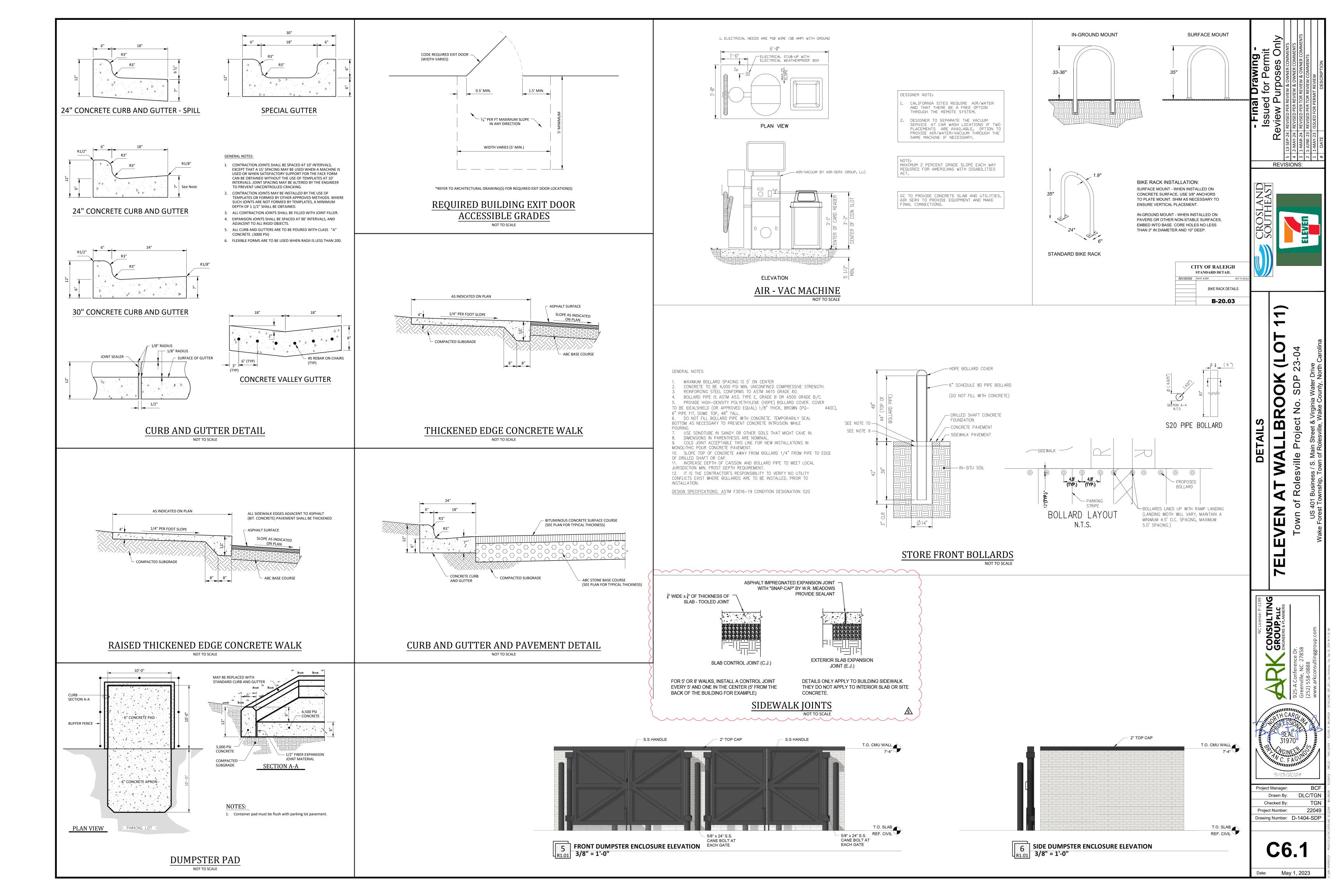
CONSULTING GROUP, PLLC

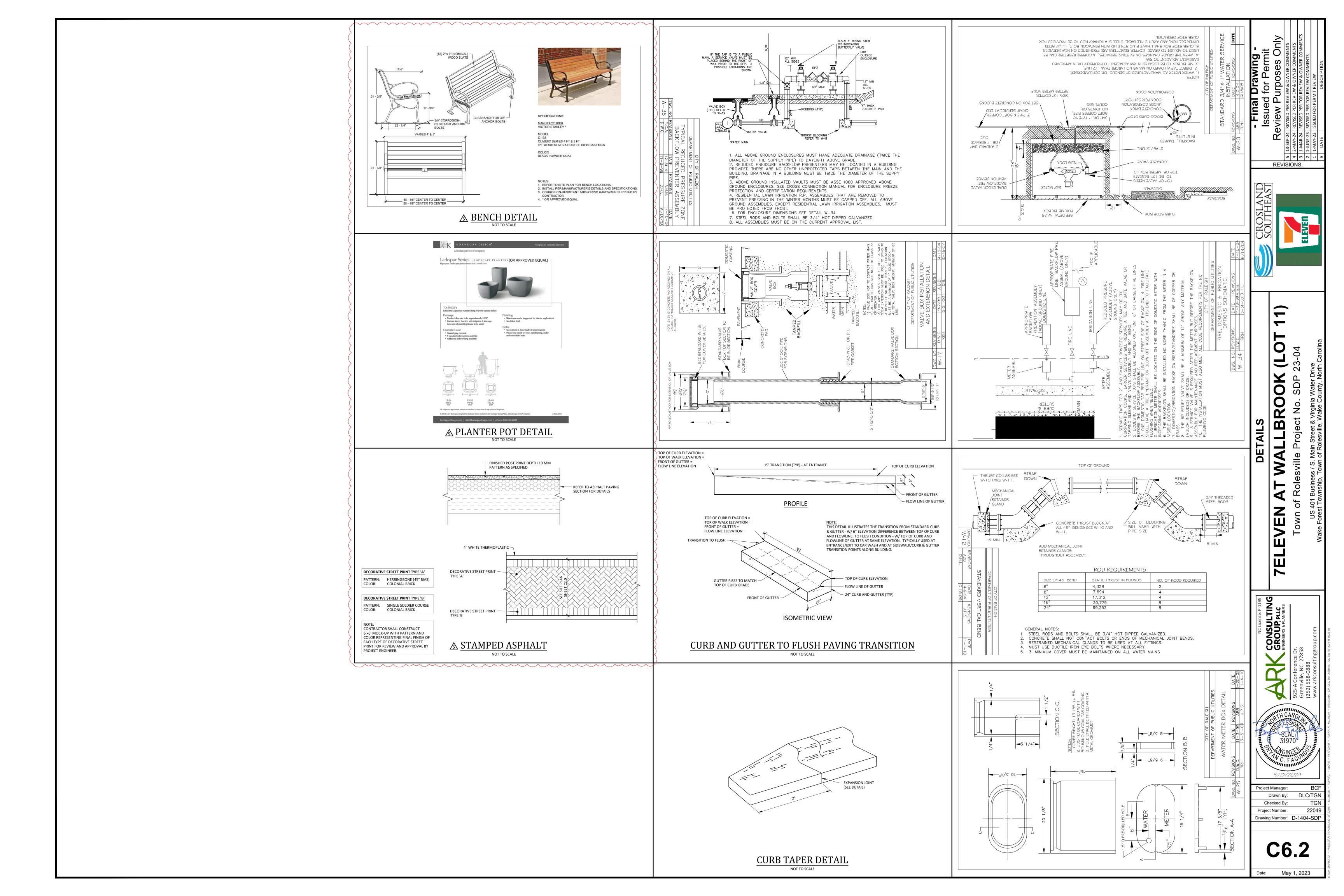
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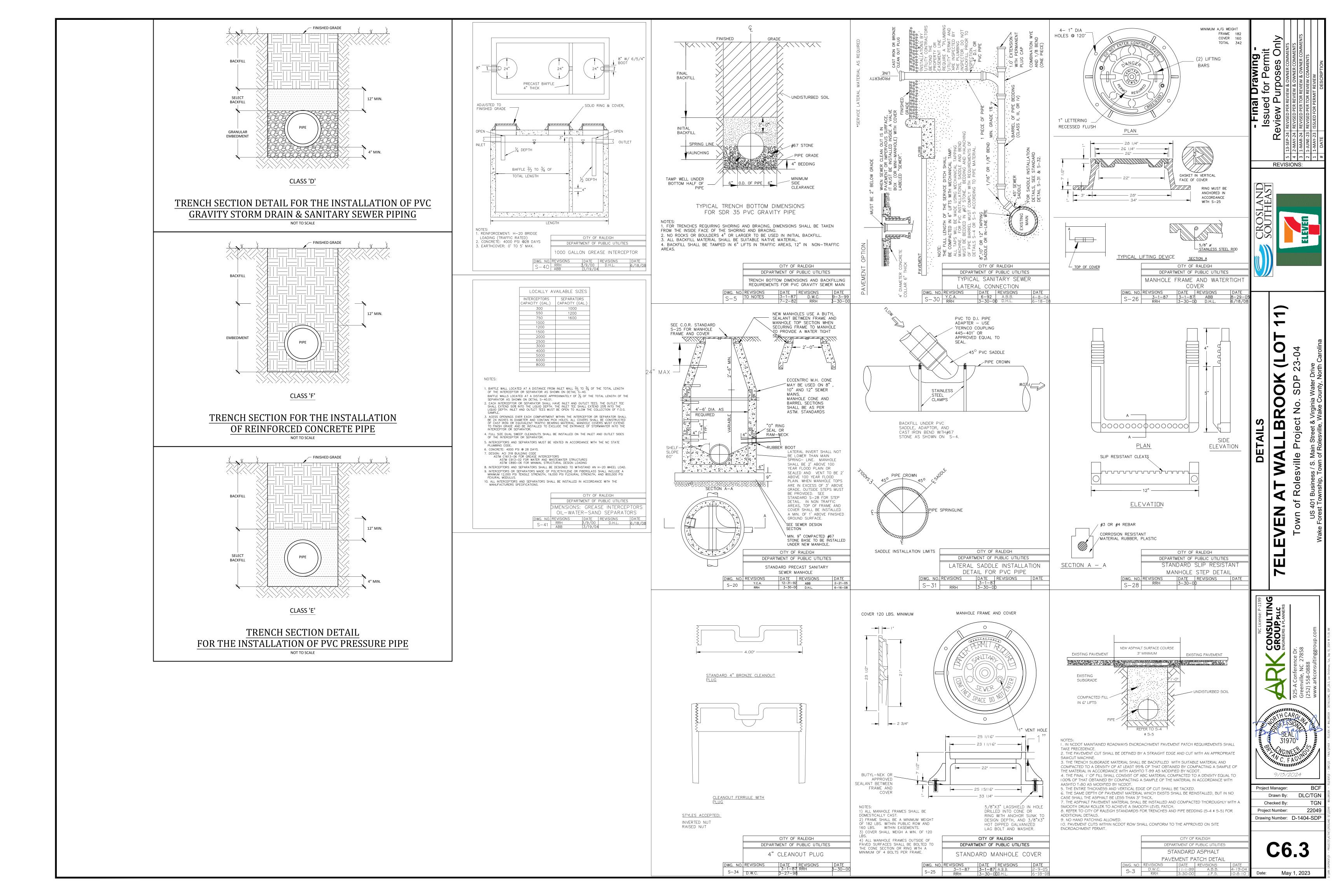
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GENERAL NOTES:

- 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.

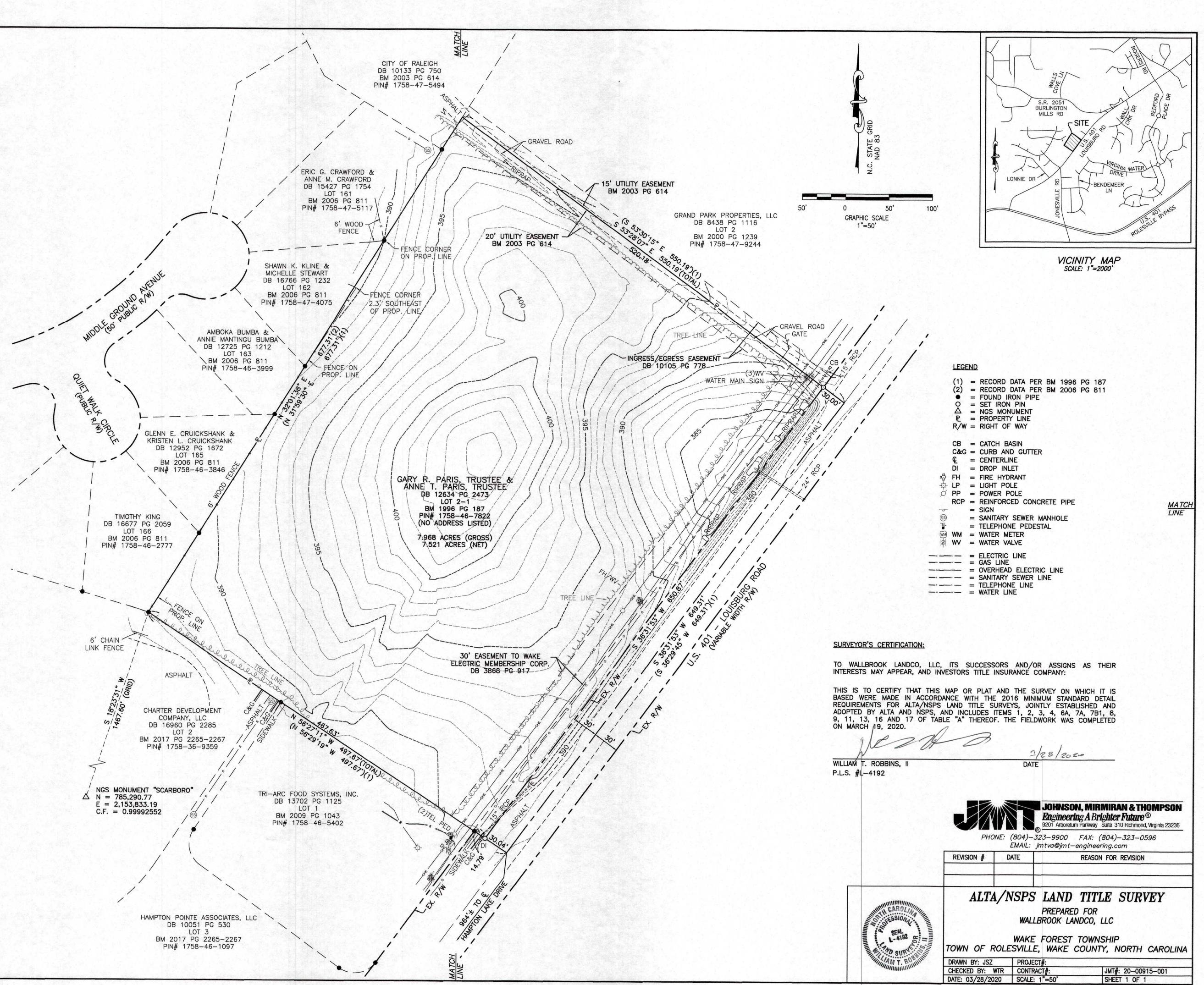
SCHEDULE B. PART II EXCEPTIONS:

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

RALEIGH RECORDED IN BOOK 10105 AT PAGE 778. [PLOTTED HEREON]

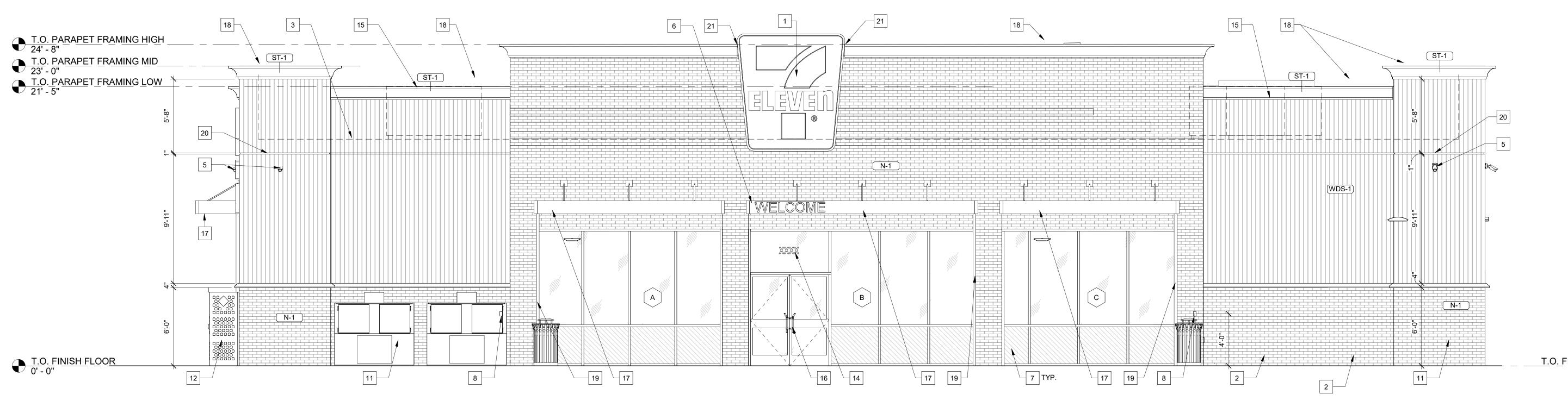
1. (ITEM 3) EASEMENT(S) AND/OR RIGHT(S) OF WAY TO CITY OF

- 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]

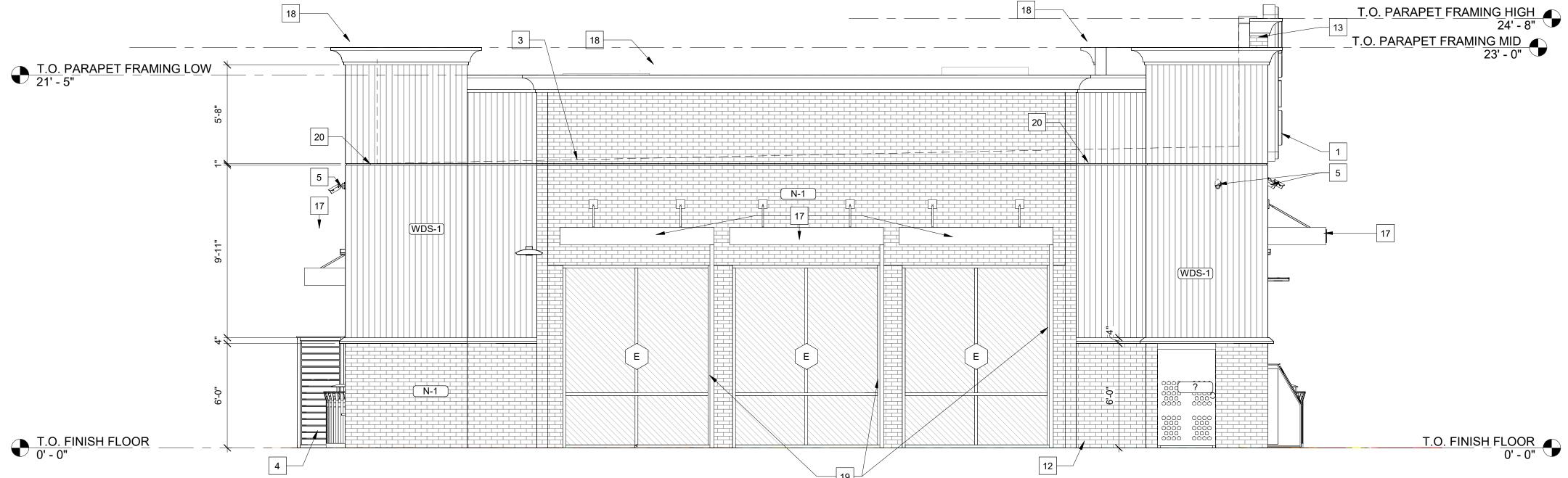








2 **EXTERIOR BUILDING - WEST** 1/4" = 1'-0"



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

STUDIO 702 SE 5TH ST. SUITE 50

BENTONVILLE, AR 72712 TEL: 479.579.9959

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Drawing Size: | Project #: 30 x 42 Drawn By: Checked By: CCMB Title:

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Architect Name - RYAN M. FAUST

EXTERIOR ELEVATIONS

Sheet Number: A3.0

Date: 01/26/2024

T.O. FINISH FLOOR
0' - 0"

T.O. FINISH FLOOR 0' - 0" 12



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 —

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

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REVISIONS

NO. DATE

DESCRIPTION

b·u·f studio

COMMENTS

MATTE BLACK BAKED

GUTTER CONNECTIONS

SEE PAINT SCHEDULE FOR ADDITIONAL

SEE PAINT SCHEDULE

INFORMATION

INFORMATION

FOR ADDITIONAL

SHALE BROWN PAINTED SW7005

AWP 3030 PAINTED P-1

ARCHITECTURAL LUMINSHADE ENAMEL WITH REAR

MAPES

CANOPIES CANOPY

EXTERIOR MATERIALS SCHEDULE

NICHIHA

WILLIAMS

SHERWIN WILLIAMS

MATTE BLACK MAPES

COLOR MANUFACTURER MODEL

CODE DESCRIPTION

FC-2 FIBER CEMENT PANELS

- VINTAGE BRICK
N-1 FIBER CEMENT PANELS

- VINTAGE BRICK

ALUMINUM CANOPY

P-1 EXTERIOR UTILITIES PURE WHITE SHERWIN

FIBER CEMENT PANEL

MT-3 PRE-FINISHED

ST-1

LINE OF ROOF BEYOND

Sheet Number:
R1.00

Architect Name - RYAN M. FAUST

Drawing Size: | Project #:

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EXTERIOR COLORED ELEVATIONS

22050

Checked By:

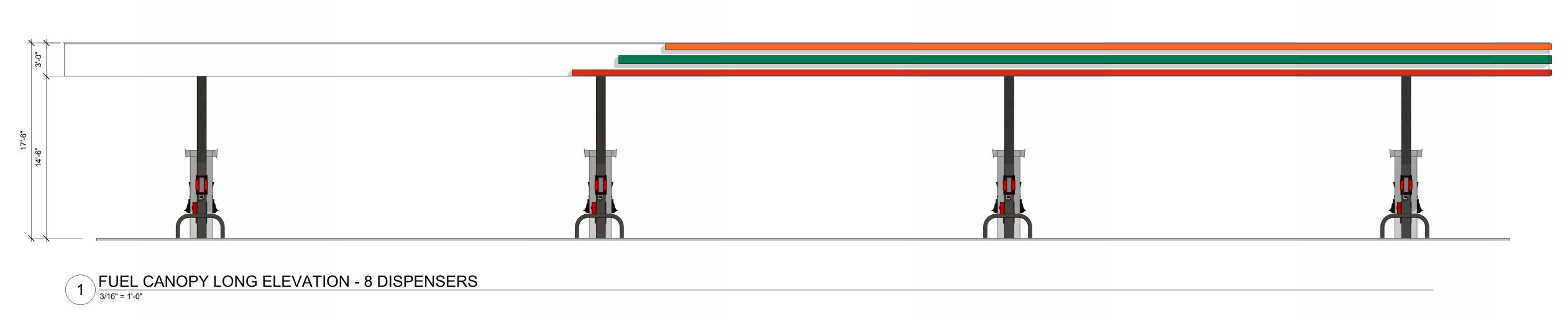
Date: 01/26/2024

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Title:

Drawn By:

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

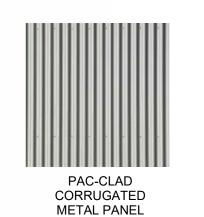


VINTAGE BRICK

PAINTED SHERWIN

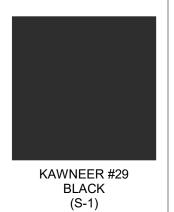
WILLIAMS "PURE WHITE"

(FC-2)



SILVER (MT-1)

451T VG



STUDIO

TEL: 479.579.9959

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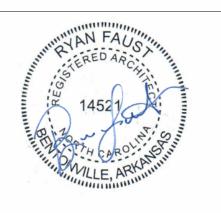
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REVISIONS

NO. DATE DESCRIPTION

BENTONVILLE, AR 72712





<u> </u>	rchitect Name	- RYAN	M. FAUST
<u> </u>	rchitect Numl	<u>oer</u> - 145	21
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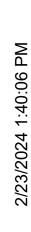
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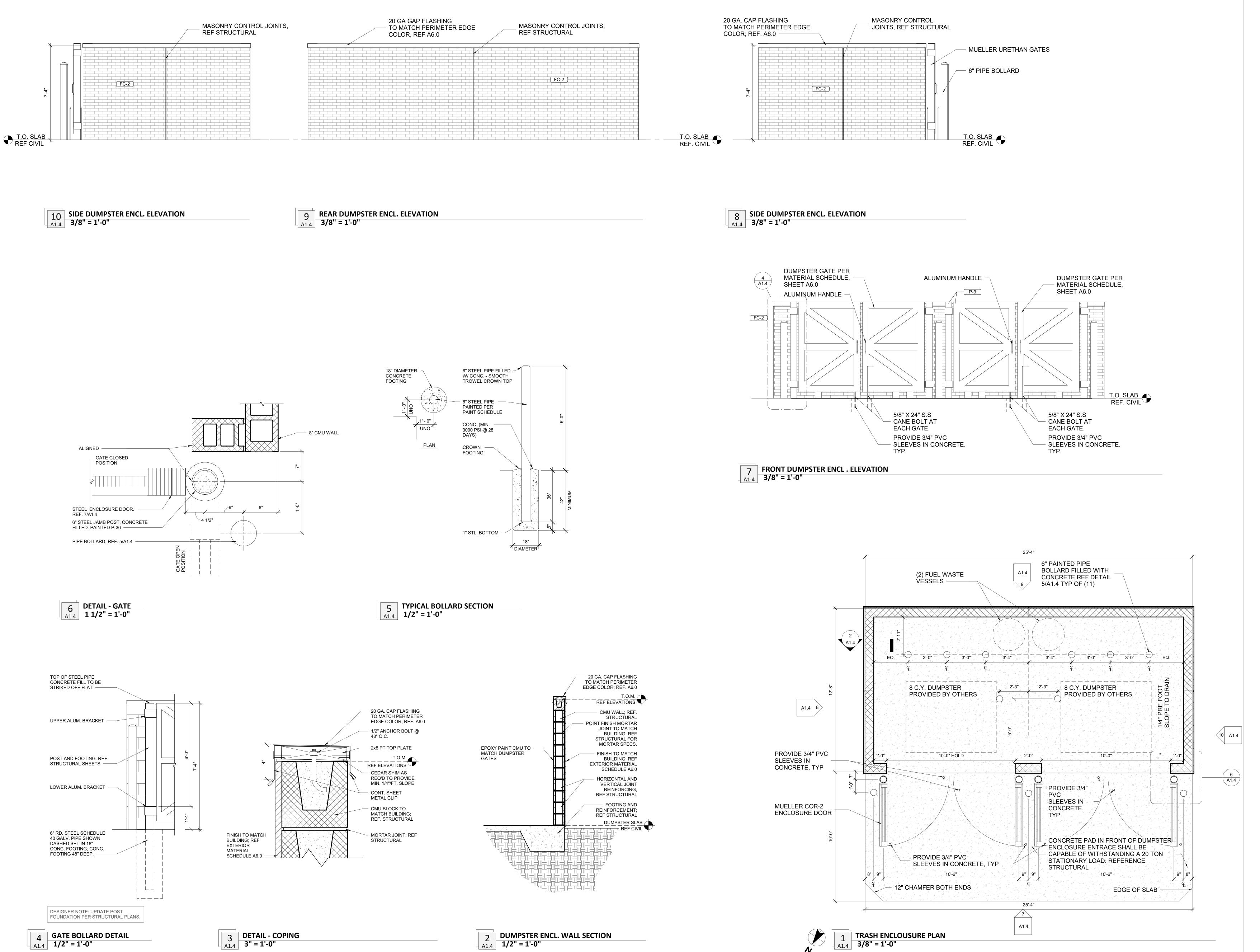
EXTERIOR COLORED ELEVATIONS

Sheet Number: R1.01

Date: 01/26/2024

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





b.u.f STUDIO

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

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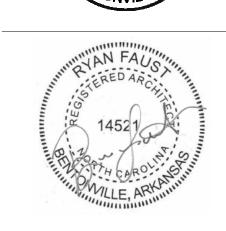
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Architect Name - RYAN M. FAUST

Architect Number - 14521

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Project #:

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Drawn By:

Checked By:

CCMB

Title:

TRASH ENCLOSURE &
DETAILS

Sheet Number:

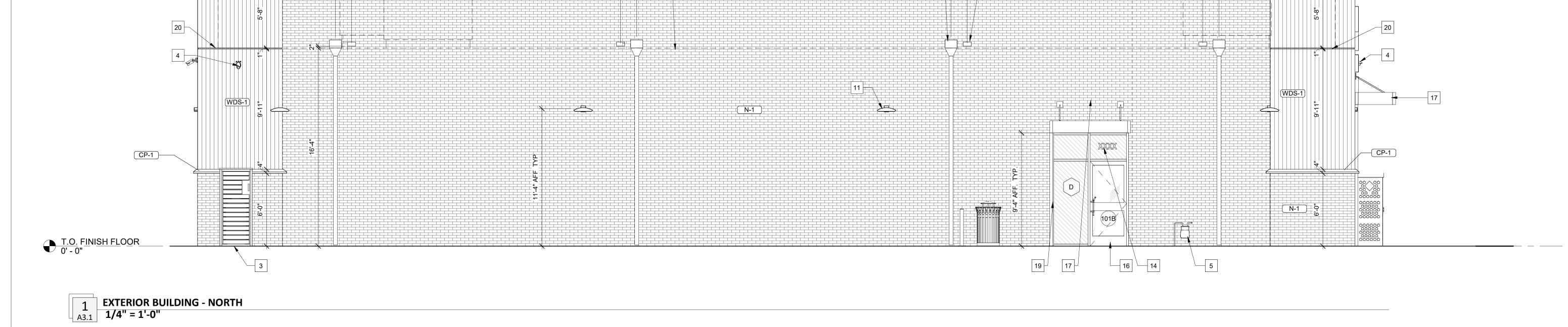
Date: 01/26/2024

T.O. PARAPET FRAMING HIGH
24' - 8"

T.O. PARAPET FRAMING MID
23' - 0"

T.O. PARAPET FRAMING LOW
21' - 5"

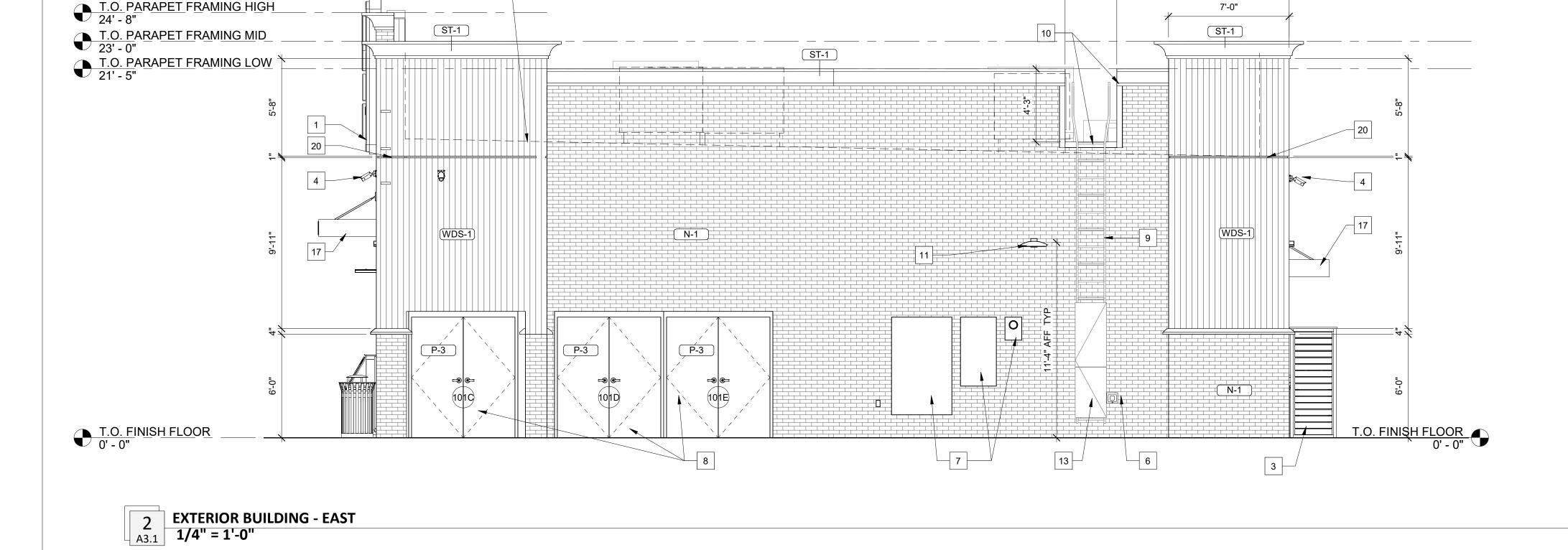
11'-4 1/2"



25'-10 7/8"

19'-5 1/8"

18



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

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





Architect Name - 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

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REVISIONS NO. DATE DESCRIPTION

STUDIO

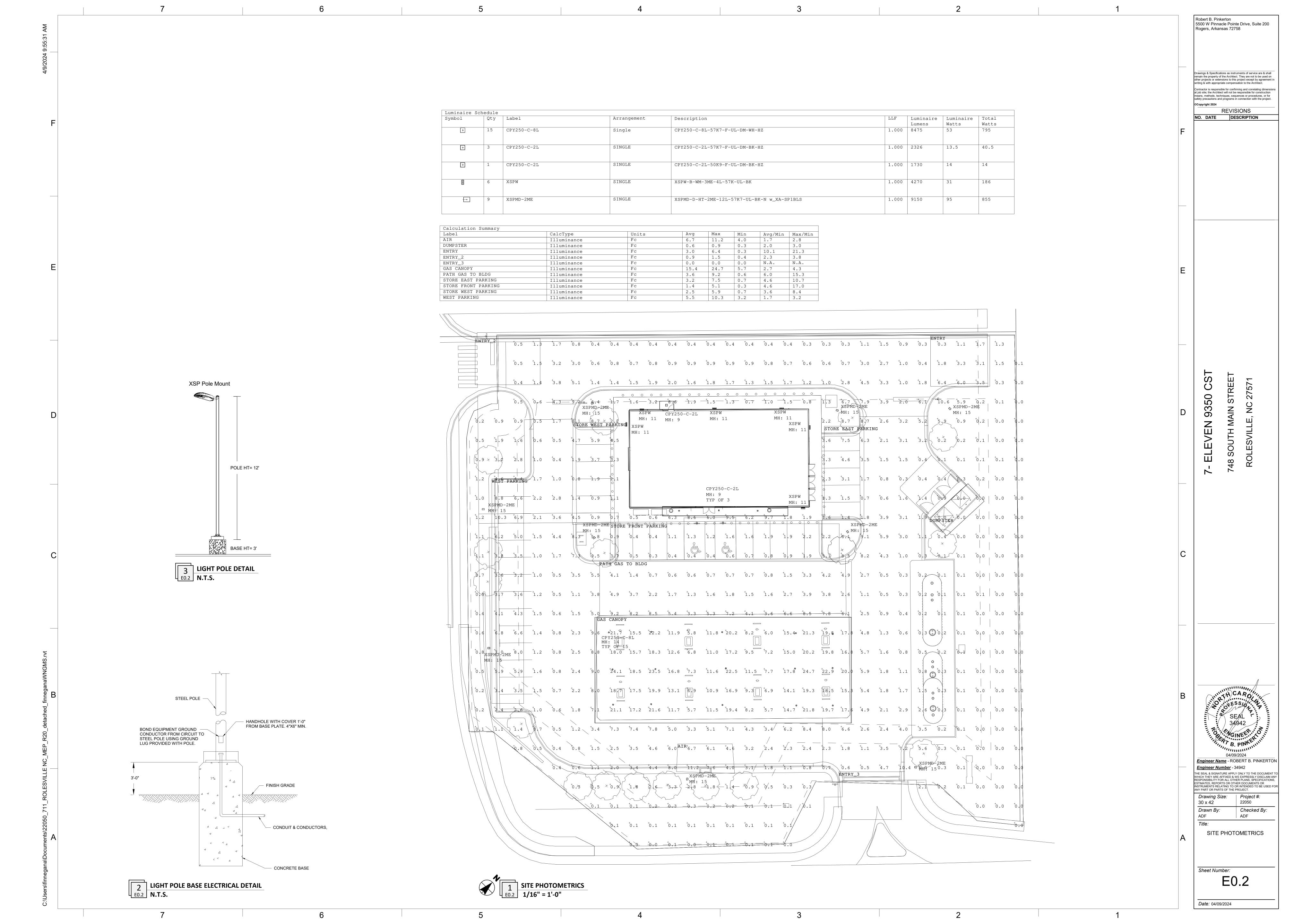
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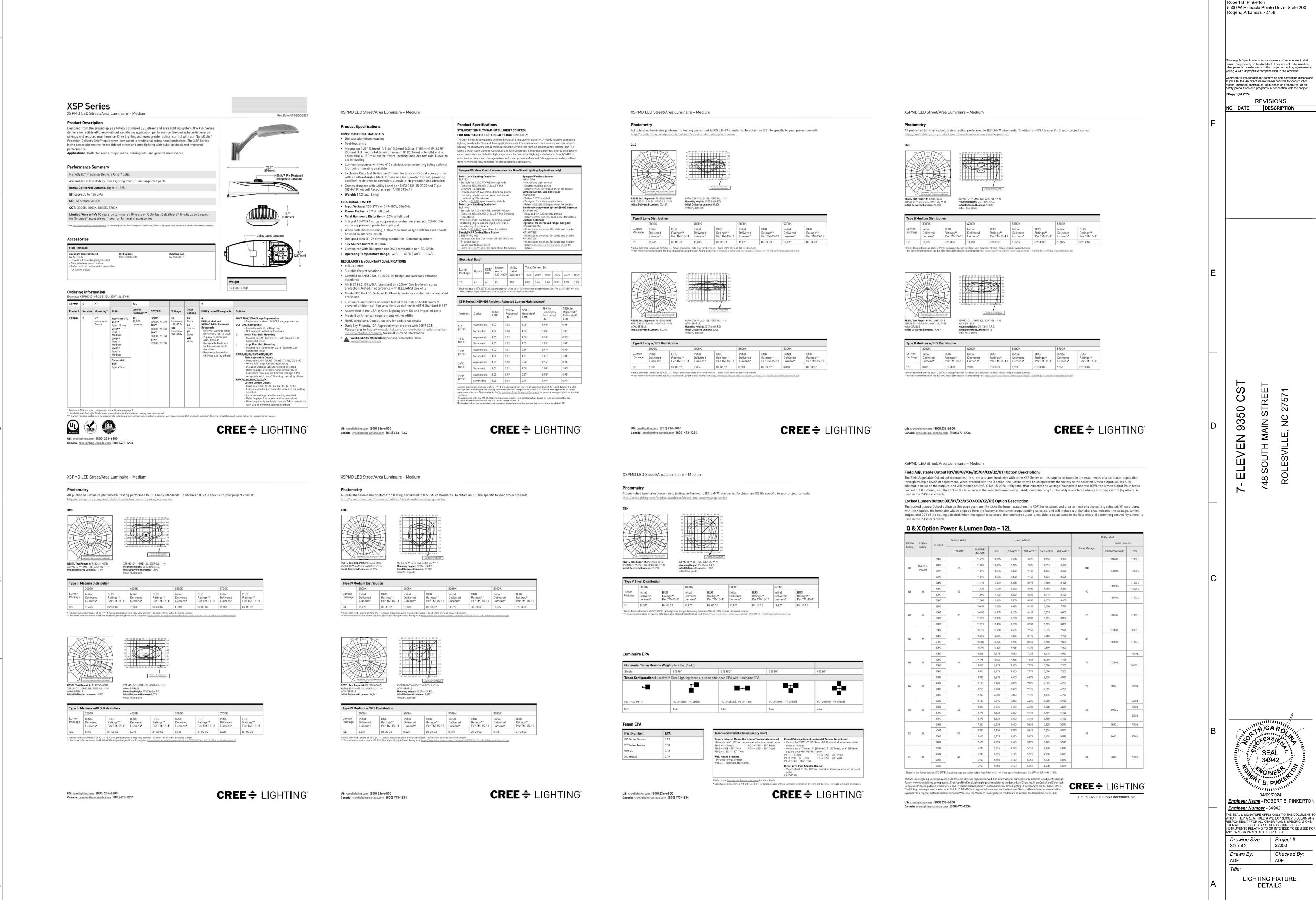
702 SE 5TH ST. SUITE 50

BENTONVILLE, AR 72712

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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.





Sheet Number:

Date: 04/09/2024

DM Mount / DM Mount with HZ Option

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)

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

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

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

customer wiring and is intended to be mounted by 3/4 IP pendant (by others)

. 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 Colorfast DeltaGuard® finish features an E-Coat epoxy primer with

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

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

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

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

. 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 for indoor use only

ANSI C136.2 6kV/3kA (standard) and 10kV/5kA (optional) surge protection, tested in accordance with IEEE/ANSI C62.41.2. BML option includes 10kV

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

. 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

industry/fsa/fsa-products/ for most current information

CA RESIDENTS WARNING: Cancer and Reproductive Harm –

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

XSPW™ LED Wall Mount Luminaire

Product Specifications

CREE TRUEWHITE® TECHNOLOGY

CONSTRUCTION & MATERIALS

Slim, low profile design

bronze are available

Power Factor: > 0.9 at full load

be used to address inrush current

Refer to <u>Dimming spec sheet</u> for details

REGULATORY & VOLUNTARY QUALIFICATIONS

 Designed for downlight applications only Enclosure rated IP66 per IEC 60598

Meets Buy American requirements within ARRA

· RoHS compliant. Consult factory for additional details

CA RESIDENTS WARNING: Cancer and Reproductive Harm -

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

10V Source Current: 0.15 mA

Suitable for wet locations

ELECTRICAL SYSTEM

cULus Listed

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

 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

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

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

apl.designlights.org/solid-state-lighting for most current information

A revolutionary way to generate high-quality white light, Cree TrueWhite®

Technology 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.

Luminaire housing specifically designed for LED applications with

Luminaire can also be direct mounted to a wall and surface wired

Luminaire mounting box designed for installation over standard single

Exclusive Colorfast DeltaGuard® finish features an E-coat epoxy primer

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

ANSI C136.2 10kV/5kA surge protection, tested in accordance with IEEE/

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

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://qpl.designlights.org/solid-state-lighting for most current information

 DLC Luna qualified when ordered with 4L-8L lumen packages and 30K CCT. Please refer to https://qpl.designlights.org/solid-state-lighting for

with an ultra-durable powder topcoat, providing excellent resistance to

corrosion, ultraviolet degradation and abrasion. Silver, black, white and

advanced LED thermal management and driver

gang J-Boxes and mud ring single gang J-Boxes

· Conduit entry from top, bottom, sides, and rear

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

Total Harmonic Distortion: < 20% at full load

Secures to wall with four 3/16" (5mm) screws (by others)

Weight: 2L, 4L, 6L - 11.0 lbs. (5.0kg); 8L - 11.8 lbs. (5.4kg)

Integral 10kV/5kA surge suppression protection standard

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

Operating Temperature Range: -40°C - +50°C (-40°F - +122°F)

High-Bay/Low Bay Luminaires when ordered with 8L and 30K8, 40K9 and 50K9 CCTs, 13L or 21L lumen packages with all CCTs. Please refer to https://

HZ or BML options. Refer to http://info.nsf.org/Certified/Food/ for additional

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

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

an ultra-durable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Black, bronze, silver and white are

. Standard pendant mount includes a mounting bracket and a J-Box for

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

conduit entry for direct wire feed

intended to hang from the single hook

intended to hang from the single hook

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

• Total Harmonic Distortion: < 20% at full load

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

cULus Listed

surge protection

Drop lens is 0.157" molded borosilicate glass

Product Specifications

Rev. Date: V705/18/202

CONSTRUCTION & MATERIALS

Slim, low profile design

canopy thickness

* Electrical data at 25°C (77°F). Actual wattage may differ by +/- 10% when sperating between 120-277V or 347-480V +/- 10%.

** 2L not available in 347-480V.

Initial LMF 25K hr Reported² Reported² LMF 75K hr Reported² LMF 100K hr Reported² LMF 100K hr Reported² 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

0.98 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

Plywood Metal/Suspended

Lumen maintenance values at 25°C (77°F) are calculated per IES TM-21 based on IES LM-80 report data for the LED

package and in-situ luminaire testing. Luminaire ambient temperature factors (LATF) have been applied to all lumen maintenance factors. Please refer to the <u>Temperature Zone Reference Document</u> for outdoor average nighttime ambient

conditions.

'In accordance with IES TM-21, Reported values represent interpolated values based on time durations that are up to 6x the tested duration in the IES LM-80 report for the LED.

Lumen Direct Mount to Direct Mount to Sheet Class 1, Division 2 Hazardous Location

| Package | Plywood | Metal/Suspended | Direct Mount to | Direct Mount to Sheet |

NOTE: Standard luminaires are UL rated at 40°C, and hazardous location luminaires are UL rated at

CREE \$\DECE\text{LIGHTING}^*

50K/90 CRI 78 89 0.66 0.37 0.33 0.29 0.22 0.16

57K/70 CRI 71 119 0.60 0.35 0.30 0.26 0.20 0.15

Electrical data at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-277V or 347- 480V

XSPW Series Ambient Adjusted Lumen Maintenance Factors¹

Total Current (A)

120V 208V 240V 277V 347V 480V

Estimated³ Estimated³ LMF LMF

0.92 0.90 0.88

-40°C to +40°C -40°C to +45°C -40°C to +25°C

WARNING: Exceeding maximum operating temperature may result in thermal foldback

Estimated values are calculated and represent time durations that exceed the 6x test duration of the LED.

0.99 0.95 0.89 0.84

CPY Series (Version C) Ambient Adjusted Lumen Maintenance¹

2L-21L Metal

L-21L Metal

2L-21L Metal

2L-21L Metal

L-21L Metal

2L-21L Metal 21L Plywood

Operating Temperature Range

2L -40°C to +45°C -40°C to +50°C

21L -40°C to +35°C -40°C to +40°C

Electrical Data*

50K/90 CRI 24

57K/70 CRI 19

30K/70 CRI 33

40K/70 CRI 31

50K/90 CRI 40

57K/70 CRI 31

40K/70 CRI 47

57K/70 CRI 47

30K/70 CRI 77

40K/70 CRI 72

15°C (59°F) 1.02

35°C (95°F) 0.98 0.94

50K/90 CRI 60

30K/70 CRI 51

-40°C to +45°C -40°C to +50°C

-40°C to +40°C -40°C to +45°C

[104°F] 2L-21L Metal

[113°F] 2L-13L Metal

[122°F] 2L-4L Metal

CPY250® LED Canopy/Soffit Luminaire - Version C

DROP LENS

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

Initial Delivered Lumens: 13,260

RESTL Test Report #: PL16548-004A CPY250-C-13L-57K7-F-UL-**-** Initial Delivered Lumens: 14,015

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

XSPW™ LED Wall Mount Luminaire

CESTL Test Report #: PL12798-001A XSPW-B-**-2ME-8L-40K-UL

Type II Medium Distribution

CESTL Test Report #: PL12366-007A XSPW-B-**-3ME-8L-40K-UL Initial Delivered Lumens: 8,543

Type III Medium Distribution

http://creelighting.com/products/outdoor/wall-mount/xsp-series-wall

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

FLAT LENS

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

To obtain an IES file specific to your project consult: https://www.creelighting.com/products/outdoor/canopy-and-soffit/cpy250-series

CPY250-C-13L-57K7-D-UL-**-**-

CPY250-C-13L-57K7-F-UL-**-**

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

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

B1 U0 G1

B1 U0 G1

B1 U0 G2

B2 U0 G2

Mounting Height: 15' [4.6] A.F.

B2 U0 G2

initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens. For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/

XSPW-B-**-3ME-8L-40K-UL

Mounting Height: 15" (4.6m) A.F. Initial Delivered Lumens: 8,475 Initial FC at grade

Per TM-15-11 Lumens*

6,100

8,475

B1 U0 G2

B2 U0 G2

Initial delivered lumens at 25°C [77°F]. Actual production yield may vary between -10 and +10% of initial delivered lumens * For more information on the IES BUG [Backlight-Uplight-Glare] Rating visit: https://www.ies.org/wp-content/uploads/2017

Mounting Height: 15" (4.6m) A.F.G. Initial Delivered Lumens: 14,015 Initial FC at grade

Initial FC at grade

Drop Lens Distribution

Flat Lens Distribution

80 CRI

Initial BUG
Ratings"
Per
Lumens TM-15-20

2,100 B1 U1 G1 1,730 B1 U1 G1 2,310 B1 U1 G1

4,160 B2 U1 G1 3,440 B2 U1 G1 4,590 B2 U2 G1

7,675 B3 U2 G1 6,325 B2 U2 G1 8,475 B3 U2 G1

12,450 B3 U2 G1 10,225 B3 U2 G1 13,750 B3 U2 G1

19,200 B4 U2 G2 15,700 B3 U2 G2 21,300 B4 U2 G2

Lumens' TM-15-20 Lumens' TM-15-20 Lumens' TM-15-20

2,100 B1 U0 G0 1,730 B1 U0 G0 2,310 B1 U0 G0

4,160 B2 U0 G1 3,440 B2 U0 G1 4,590 B2 U0 G1

7,675 B3 U0 G1 6,325 B2 U0 G1 8,475 B3 U0 G1

12,450 B3 U0 G1 10,225 B3 U0 G1 13,750 B3 U0 G1

19,200 B4 U0 G1 15,700 B3 U0 G1 21,300 B4 U0 G1

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* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered

uniens For more information on the IES BUG (Backtight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf

TM-15-20

For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf

Delivered Ratings"
Per
TM-15-20

4000K/5000K/5700K

70 CRI

5500 W Pinnacle Pointe Drive, Suite 200

Robert B. Pinkerton

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

Threaded Hub

0

C

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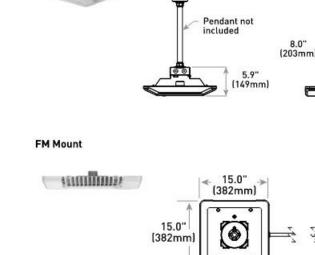
Set-Screw

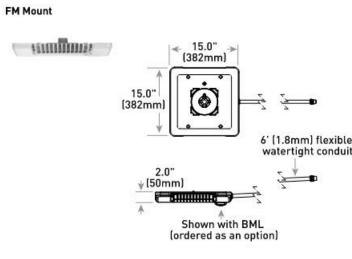
leight	Position of vertical plans of maximum candle power. -BL-40K-UL: 15' [4.6m] A.F.G. Lumens: 8,475			
grad	4000K		5000K	
1	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Rating Per TM-15-

	3000K	,	4000K		5000K		5700K		
nen Package	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11							
	2,490	B1 U0 G1							
	4.270	B1 U0 G1	4,270	B1 U0 G1	4,270	B1 U0 G1	4,270	B1 U0 G1	
	6,100	B1 U0 G2							
	8,475	B1 U0 G2	8,475	B1 U0 G2	6,925	B1 U0 G2	8,475	B1 U0 G2	

CPY250® LED Canopy/Soffit Luminaire - Version C

H6 Mount





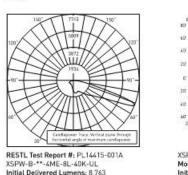
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CREE + LIGHTING A COMPANY OF IDEAL INDUSTRIES, INC.

XSPW™ LED Wall Mount Luminaire

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

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



20	1	1)	₩.
CURB LINE			
40'	T		1
264 183 122	Po	sition of ve	183 24.4 rti cal plane andle power
XSPW-B-**-4M	E-8L-40	K-UL	
Mounting Heigh Initial Delivered			
	Lumen	5: 0,4/0	

Type IV Medium	Distribution							
	3000K	-	4000K		5000K		5700K	-
Lumen Package	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings* Per TM-15-11
2L	2,490	B1 U0 G1	2,490	B1 U0 G1	2,490	B1 U0 G1	2,490	B1 U0 G1
4L	4,270	B1 U0 G1	4,270	B1 U0 G1	4,270	B1 U0 G1	4,270	B1 U0 G1
6L	6,100	B1 U0 G2	6,100	B1 U0 G2	6,100	B1 U0 G2	6,100	B1 U0 G2
8L	8,475	B1 U0 G2	8,475	B1 U0 G2	6,925	B1 U0 G2	8,475	B1 U0 G2

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

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CREE \$ LIGHTING

"minimum"
04/09/2024
<u>Engineer Name</u> - ROBERT B. PINKERTON
Engineer Number - 34942
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Sheet Number: E0.4

CPY Series - Version C CPY250® LED Canopy/Soffit Luminaire

Product Description 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 imaging of the LEDs is eliminated with a highly efficient patterned flat or 0.91" [23mm] drop glass lens. Applications: Petroleum canopies, CNG fueling stations, soffits Performance Summary

Assembled in the USA by Cree Lighting from US and imported parts Initial Delivered Lumens: Up to 21,000 Efficacy: Up to 165 LPW CRI: Minimum 70 CRI (40K, 50K, 57K); 80 CRI (30K); 90 CRI (40K, 50K)

CCT: 3000K, 4000K, 5000K, 5700K Limited Warranty*: 10 years for luminaire/10 years for Colorfast DeltaGuard® finish/5 years for BML sensor/up to 5 years for Synapse® accessories/1 year for field-installed accessories IP66 Rated (select models only)

Class I, Division 2 Hazardous Location for select models *See http://creelighting.com/warranty for warranty terms. For Synapse accessories, consult Synapse spec sheets for details on warranty terms.

Accessories Pendant Mount Luminaires Direct Mount Luminaires Canopy Upgrade Kits (18 ga. steel, except where noted) Pendant Mount Kits CPY-AP304* - for use with Cree Lighting CAN-304 luminaires, 16 ga. 5052 XA-PS18KIT* - 11" (279mm) pendan XA-BXCCM+ - for use with Jet-Philips, 21.60" (549mm) square XA-PS22KIT* - 15" (381mm) pendant XA-BXCCN+ - for use with Elsco Franciscan, 22.06" [560mm] square
XA-BXCCP+ - for use with LSI Dakota or Masters, 22.50" [572mm] square
XA-BXCCQ+ - for use with Whiteway Riviera or Rig-A-Lite, 20.60" [523mm] Synapse® SimplySnap 10V Interface XA-BXCCR+ – for use with Elsco Merrit, 18.06" [459mm] square XA-BXCCS+ - for use with LSI Richmond or Whiteway Civic, 23.00* [584mm] L x 13.00" [330mm] W

- Requires other Synapse components to Direct Mount Junction Box/Stem Kit complete system XA-BXCCJBOX - 6.0" [152mm] H x 3/4" [19mm] NPT Stem - Refer to DIM10-220F spec sheet for - Rated for feed through 8 (4 in, 4 out) #12 AWC conductors Direct Mount Beauty Plates XA-BXCCBP+ - 26.17* [665mm] Beauty Plate Only [18 ga. steel] XA-BXCCBPB12+ - 26.17" [665mm] Beauty Plate [18 ga. steel] w/12" [305mm] Backer Plate I16 ga. steell

- For use in canopies where deck opening is larger than what is required for mounting the CPY250 luminaire. Maximum deck opening 10.75" x 15" [183mm x 375mm] XA-BXCCBPB16+ - 26.17" (665mm) Beauty Plate [18 ga. steel] w/16" [406mm] Backer Plate [16 ga. steel] For use in canopies where deck opening is larger than what is required for mounting the CPY250 luminaire. Maximum deck opening 12" x 15" [305mm x 375mm]

Mounts with (4) Supplied Self-Sealing Sheet Metal Screws 12.5 lbs. [5.7kg] Refer to Page 4 for additional mounts.

up to 4.25" [108mm] Canopy Cutout

*Must specify color: BK [Black], BZ (Bronze], SV [Silver] or WH [White] + Must specify color: T (Black), Z (Bronze), S [Silver] or W [White]

Ordering Information

CPY250	С								
Product	Version	Lumen Package*	CCT/CRI	Optic	Voltage	Mounting	Color Options	Controls	Options
CPY250	c	2L 2,000 Lumens 4L 4,000 Lumens 8L 8,000 Lumens 13L 13,000 Lumens 21L 21L 21L 21L 21L	30K8 3000K, 80 CRI 40K7 4000K, 70 CRI 40K9 4000K, 90 CRI 50K7 5000K, 70 CRI 50K9 5000K, 90 CRI 57K7 5700K, 70 CRI	D 0.91" [23mm] Drop Lens F Flat Lens	UL Universal 120- 277V UH Universal 347- 480V - Available only in 4L-21L lumen packages	DM Direct FM Flush Mount H6 Car Wash HC Hook & Cord PD Pendant	BK Black BZ Bronze SV Silver WH White	BLANK Non-Dimming 10V 0-10V Dimming - Control by others - Refer to Dimming spec sheet for details BML Bluetooth* Technology Enabled Multi-Level Sensor - Utilizes a multifunction sensor - Available only with UL voltage - Refer to BML spec sheet for details - 8-20' sensor lens installed on luminaire; 20-40' sensor lens and aisle shroud included - Not available with other controls	10KV 10kV/5kA Surge Suppression Replaces standard 6kV/3kA surge su Not for use with BML as BML option includes 10kV/5kA surge as standard HZ Class I, Div. 2 Hazardous Locati Certification - Available with DM and PD mounts on Not available with BML control or K of K NSF 2 Certification - Luminaires include NSF certification - Suitable for DM mount only - Not available with BML control or HZ



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Rev. Date: VersionB V6 08/03/2022

CREE \$ LIGHTING

XSP Series XSPW™ LED Wall Mount Luminaire featuring Cree TrueWhite® Technology **Product Description** 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

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

management. Optic design features industry-leading NanoOptic® Precision Delivery Grid™ system in multiple distributions. Applications: General area and security lighting

Performance Summary NanoOptic® Precision Delivery Grid™ optic Assembled in the USA by Cree Lighting from US and imported parts Initial Delivered Lumens: Up to 8,475

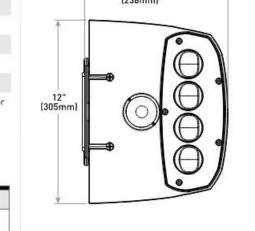
CRI: Minimum 70 CRI (3000K, 4000K & 5700K); 90 CRI (5000K) CCT: 3000K, 4000K, 5000K, 5700K Limited Warranty*: 10 years on luminaire/10 years on Colorfast DeltaGuard® finish/up to 5 years for Synapse® accessories/1 year on accessories *See http://creelighting.com/warranty for warranty terms

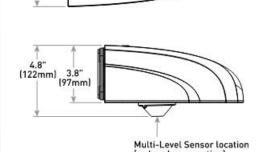
Accessories

Ordering Information

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

Hand-Held Remote WM-PLT14** - 14" (356mm) Square - Covers holes left by incumbent wall packs Synapse® SimplySnap 10V Interface - Requires other Synapse components to complete - Refer to DIM10-220F spec sheet for details





Weight 11.0 lbs. (5.0kg) 11.8 lbs. (5.4kg)

Lumen Package
2L, 4L, 6L
8L

XSPW	В	WM						
Product	Version	Mounting	Optic	Lumen Package*	сст	Voltage	Color Options	Options
XSPW	В	WM Wall	2ME Type II Medium 3ME Type III Medium 4ME Type IV Medium	2L 2,490 lumens 4L 4,270 lumens 6L 6,100 lumens 8L 8,475 lumens	30K 3000K - 70 CRI 40K 4000K - 70 CRI 50K 5000K - 90 CRI 57K 5700K - 70 CRI	UL Universal 120-277V UH Universal 347-480V 34 347V - For use with P option only	BK Black BZ Bronze SV Silver WH White	ML Multi-Level Refer to ML spec sheet for details Available with UL voltage only 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

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

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US: creelighting.com [800] 236-6800

most current information

umen maintenance values at 25°C (77°F) are calculated per IES TM-21 based on IES LM-80 report data for the LED ckage and in-situ luminaire testing, Luminaire ambient temperature factors (LATF) have been applied to alt lumen aintenance factors. Please refer to the <u>Temperature Zone Reference Document</u> for outdoor average nighttime ambie

conditions.

In accordance with IES TM-21, Reported values represent interpolated values based on time durations that are up to 6x the tested duration in the IES LM-80 report for the LED.

Estimated values are calculated and represent time durations that exceed the 6x test duration of the LED.

CREE

LIGHTING

US: creelighting.com [800] 236-6800

Per TM-15-11 Lumens*

4,270

6,100

B1 U0 G1

B1 U0 G2

B2 U0 G2

B1 U0 G1

B1 U0 G2

B1 U0 G2

B1 U0 G2

B1 U0 G2

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

umen Package | Initial Delivered | BUG Ratings** | Initial Delivered | BUG Ratings** | Initial Delivered | BUG Ratings** | Initial Delivered | BUG Ratings**

B1 U0 G1

B1 U0 G2

B2 U0 G2

Per TM-15-11 Lumens*

4,270

6,100

6,925

	ANY PART OR PARTS OF THE	PROJECT.
	Drawing Size: 30 x 42	<i>Project #:</i> 22050
	Drawn By: ADF	Checked By: ADF
	Title:	
^	LIGHTING	FIXTURE

DETAILS

Date: 04/09/2024

ELECTRICAL CONNECTIONS

LINE-BLACK

GREEN GROUND-GREEN

VIOLET DIM (+) VIOLET

NEUTRAL NEUTRAL-WHITE

XSP Series

LED Street and Area Light

INSTALLATION INSTRUCTIONS

INSTRUCTIONS D'INSTALLATION

Prior to installation, store luminaire in a dry location

protected from rain, dust, and outdoor environment. If

photocell, shorting cap, or other compatible device. Do

NOT leave receptacle open to environmental elements.

not be installed in an up-light position or at a tilt greater

than 45 degrees from the down-light position.

equipped with a photocell receptacle, do not store or install

luminaire outdoors without immediately installing a suitable

Luminaires with a top-mounted photocell receptacle should

(in-lbs)

NOTE: Luminaires with 4 point mount will have

(2) mounting brackets and (4) mounting bolts.

IMPORTANT - DO NOT exceed these torque

levels on the mount bolts. Exceeding

recommended torque value resulting in

excessive deformation of mounting bracket

will cause stripping of mount hardware which

200 22

Includes: XSPMD and XSPLG Luminaires

Robert B. Pinkerton

writing & with appropriate compensation to the Architect.

Contractor is responsible for confirming and correlating dimensionat job site; the Architect will not be responsible for construction

NEMA® RECEPTACLE (OPTIONAL)

NOTE: When inserting a control unit into the

nema receptacle and rotating control unit to

lock in, the engagement force may exceed

the rotational force of the receptacle. If this

occurs, the receptacle and control unit can

be rotated clockwise until the hard rotation

engagement between the receptacle and

control is achieved. Once engaged, the

control unit and receptacle can be turned

counter clockwise to the desired orientation.

Always verify proper installation by pulling

up on the control module to confirm that it is

stop is reached on the receptacle and locking

Firmly rotate photo-control with its photo-eye approximately in the 'N' north direction. Some photo-controls operate best somewhere between NW and NE.

receptacle on top of the fixture.

captive D-ring and allow the cover to swing the highest setting ordered.

ELECTRICAL CONNECTIONS For 120/277/347V applications make the following Electrical Connections to the terminal block: a. Connect the black fixture lead to the voltage supply position of

the terminal block. b. Connect the white fixture lead to the neutral supply position of the terminal block. c. Connect the green or green/yellow ground lead to the green wire position of the terminal block. For 208/240/480V applications, make the following Electrical Connections to the terminal block: a. Connect Hot 1 supply lead to the black lead. b. Connect Hot 2 supply lead to the white lead

c. Connect the green or green/yellow ground lead to the supply ground lead. Dimming capabilities may be accessible through optional Nema

NOTE: Brown and orange leads on optional NEMA Receptacle are not used and are capped off. No electrical connection is necessary. d. If Dimming is an option; connect the violet dimming positive lead to

the supply dimming positive lead. If dimming is not being used ensure to cap off the violet lead. e. If Dimming is an option; connect the grey or pink dimming negative lead to the supply dimming negative lead. If dimming is not being used ensure to cap off the grey or pink lead. . If dimming through Nema is an option, install photo control with dimming capabilities.

STEP 3: Close cover re-tighten the captive D-ring, making sure that no wires are pinched and latches are fully engag

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CREE \$\DECE\text{LIGHTING}

IMPORTANT SAFEGUARDS When using electrical equipment, basic safety precautions should always be followed including the following:

READ AND FOLLOW ALL SAFETY

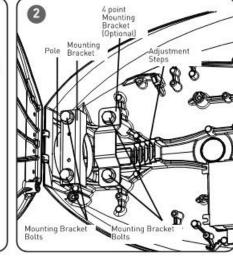
1. DANGER- Risk of shock- Disconnect power before installation. DANGER - Risque de choc - Couper l'alimentation avant l'installation. This luminaire must be installed in accordance with the NEC or your local electrical code. If you are not familiar with these codes and requirements, consult a qualified electrician. Ce produit doit être installé conformément à NEC ou votre code électrique local. Si vous n'êtes pas familier avec ces codes et ces exigences, veuillez

contacter un électricien qualifié. 3. If NEMA® photo control is installed refer to NEMA® Receptacle section for 4. If mounting bolts are completely removed in the field they should be hand

threaded (prior to use of power tools) to ensure proper engagement of the thread when re-installing. Failure to pre-start threads may result in crossthreading or stripping of the bolts during reinstallation.

SAVE THESE INSTRUCTIONS FOR **FUTURE REFERENCE**

TO INSTALL:



Slide fixture on to pole through opening on the DO NOT remove splashguard from fixture. If mounting fixture to 1.25 IP pipe [1.66 O.D.], rear of housing and through splashguard. See there is no need to modify the splashguard. If mounting fixture onto 2.0 IP pipe (2.38 O.D.), remove the knockout of the splashguard thru To level fixture, use bubble level located inside the rear opening of the fixture while the fixture housing. Adjust leveling of fixture from side

is closed. See Figure 1. captive D-ring and allow the cover to swing open. Splashguard may dislodge from fixture, but should be repositioned once ready to

mount. See Figure 1.

LUMINAIRE INSTALLATION

Once desired position is achieved, tighten mounting bolts to the appropriate torque

See Figure 2.

to side. To level from front to back, slide pole

to different step in upper housing. Each step hanges the angle in 2.5° degree increments.

> Reference Electrical Connections section for completing electrical connections.

CI391X18R0_C

CPY Series

INSTALLATION INSTRUCTIONS

INSTRUCTIONS D'INSTALLATION

Includes: CPY250™ Surface Mount Hazardous Locations

. No user maintenance is required. Do not remove the

Installer is responsible for ensuring fittings, junction boxes,

Failure to provide a weather-tight seal will void the 10-year

pendants stems, and similar items above the canopy deck are

NOTE: Customer supplied junction box needs to be 4"

Locate Air Craft Cable on the fixture and attach it to

the customer supplied junction box with a number 8

Make wiring connections into junction box per

and luminaire is flushed with ceiling.

"Electrical Connections" section on the back page.

To mount luminaire to ceiling, feed the threaded hub

Insert and tighten (4) supplied sheet metal screws to

metal ceiling. If ceiling isn't metal use appropriate

customer supplied hardware. See Figure 2.

into the junction box, making sure no wires are pinched

machine screw. Then carefully let the fixture hang down

installed in a weather-tight and sealed manner that prevents

enclosure cover after installation.

luminaire warranty.

water ingress to wiring and/or luminaire

LUMINAIRE INSTALLATION

square or octagon.

for wiring. See Figure 1.

LED Luminaire

XSP Series LED Wall Pack

INSTALLATION INSTRUCTIONS

INSTRUCTIONS D'INSTALLATION

Includes: XSPW™ Luminaires

IMPORTANT SAFEGUARDS When using electrical equipment, basic safety precautions should always be followed including the following:

CREE \$\(\phi\) LIGHTING

IMPORTANT SAFEGUARDS

When using electrical equipment, basic safety precautions should always be

READ AND FOLLOW ALL SAFETY

INSTRUCTIONS

DANGER - Risque de choc - Couper l'alimentation avant l'installation.

1. For use in CLASS I, DIVISION 2, Groups A,B,C and D Hazardous

3. This luminaire must be installed in accordance with the NEC or your

local electrical code. If you are not familiar with these codes and

Ce produit doit être installé conformément à NEC ou votre code

SAVE THESE INSTRUCTIONS FOR

FUTURE REFERENCE

électrique local. Si vous n'êtes pas familier avec ces codes et ces

2. DANGER- Risk of shock- Disconnect power before installation.

requirements, consult a qualified electrician.

DO NOT lift luminaire by the power leads or cord.

exigences, veuillez contacter un électricien qualifié.

followed including the following:

TO INSTALL:

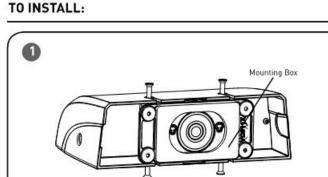
READ AND FOLLOW ALL SAFETY INSTRUCTIONS 1. To reduce the risk of electrical shock, turn off power supply before

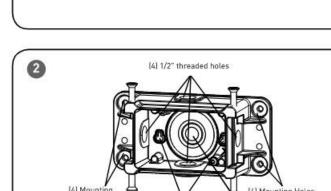
2. This luminaire must be installed in accordance with the NEC or your local electrical code. If you are not familiar with these codes and requirements, consult a qualified electrician.

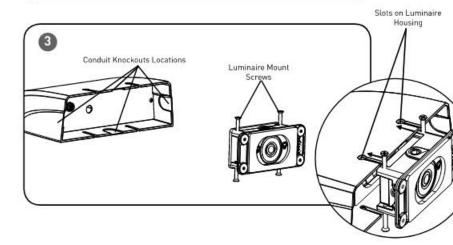
SAVE THESE INSTRUCTIONS FOR **FUTURE REFERENCE**

installation or servicing.

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Remove mounting box from the luminaire. See

Place mounting box over junction box or Inspection knockout hole is included. See Figure 2 and 4.

available. See Figure 2 and 4. If mounting on a uneven surface, place a minimum of a 1/4" bead of high grade silicone on the black gasket encompassing the

Mounting Over Recessed Junction Box Keyhole Knockouts- Provided for

1/2" Conduit Knockout

Make the following Electrical Connections:

of the supply source.

green wire from the supply source.

to the supply dimming negative lead.

supply dimming positive lead.

with the NEC and CEC for the area.

a. Check the voltage rating on the luminaire label and verify the voltage

b. Connect the black lead from the luminaire to the line (hot) of the supply

c. Connect the white (neutral) lead from the luminaire to the white (neutral)

d. Connect the green or green/yellow ground lead from the luminaire to the

e. If Dimming is an option; connect the violet dimming positive lead to the

f. If Dimming is an option; connect the grey or pink dimming negative lead

NOTE: For dimming circuit connections use wire ratted to a minimum of 90C.

UL certified dimming control suitable for the specific ordinary or hazardous

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Class 1 wiring only. Dimming control wires must be rated 600V minimum. Use

locations where the control is located. The wiring shall be made in accordance

from the supply source matches the luminaire voltage rating.

NOTE: Once electrical connections have been made, insure that all wires are carefully positioned so that no wires are pinched between the mounting box and the housing gaskets. STEP 10: Place luminaire on mounting box by sliding the luminaire so that the (4) Luminaire Mount Screws on the mounting box are at the end of each slot in the housing. See Figure 3. Tighten (4) Phillips screws and verify luminaire is secure. Alignment Over Junction Box ONLY

CREE & LIGHTING

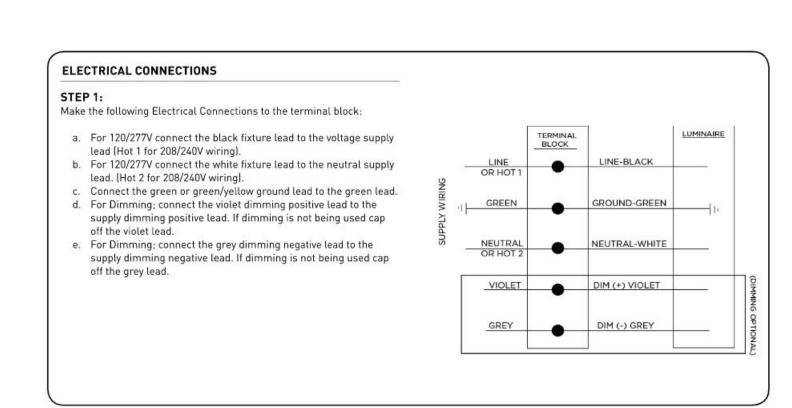
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Make wiring connections per the

Electrical Connections section.

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CI379X41R0

values specified in TORQUE VALUES table to above. See Figure 2 [use 9/16" socket wrench].

CI379X23R0_C

FIELD ADJUSTABLE DIMMING (OPTIONAL) NOTE: This luminaire may be provided with field adjustable dimming. Luminaires Establish the desired input power multiplier leave the factory adjusted to the maximum by referring to the product dimming spec setting specified when ordered. Verify which sheet and turn the switch to the correlating dimming module, either Figure 3 is in the position. For the half moon shaped dial luminaire and visit www.creelighting.com/ (Figure 3) the center of the flat side should products for the product specification sheet be turned to the desired setting. for lumen and power multipliers for each field adjustable output dim setting. Adjust the Dimming Module, see Figure 3, to the selected position and close the cover The Dimming module is located inside the

ddddddd dddd

ensuring no wires are pinched. luminaire. Open the cover by loosening the NOTE: The Utility Option will be limited to

LINE-BLACK VIOLET DIM (+) VIOLET

Push excess supply wires into pole.

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CI379X23R0_C

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04/09/2024 **Engineer Name** - ROBERT B. PINKERTON Engineer Number - 34942 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 FO

Drawing Size: | Project #:

ANY PART OR PARTS OF THE PROJECT.

30 x 42 22050 Drawn By: Checked By: ADF Title: LIGHTING FIXTURE

DETAILS

Sheet Number:

WALL MOUNTING

STEP 2: IMPORTANT - If needed, the [2] Keyhole knockouts located inside box may be removed, but are for alignment only. See Figure 2. Luminaire is to be supported by (4) 3/16" mounting holes. The Mounting holes will accommodate a #10 bolt. Select appropriate customer supplied mounting hardware for

mounting surface. See Figure 2 and 4. conduit. If mounting over junction box a 2-1/2"

For surface wiring (4) 1/2" threaded holes are

Inspection Knockout hole on the back of the mounting box. See Figure 4. If mounting over surface mounted conduit use the knockout conduit openings located on the top, bottom, or sides of the luminaire. Knockouts can be removed by using a hammer

or pliers. See Figure 3. Before securing to wall mounting surface, make sure mounting box is level. Secure mounting box to wall.

Date: 04/09/2024

SSS Series

Crown-Weld® Straight Square Steel Poles

Product Description

Cree Lighting's proprietary Crown-Weld® pole base crown weld configuration was designed to minimize stress in areas most vulnerable to failure, provide superior strength and higher wind load ratings, than poles of similar height and cross-section. Both premium pole design and extended life finish combine for a 7-year limited warranty for a reduced lifetime cost of ownership.

Non-tapered square steel poles are supplied with a painted galvanized steel 2-piece base cover, four partially galvanized anchor bolts, Masonite mounting template and pole cap (except open top mount). Steel pole base has slotted holes to accommodate installation. A standard $3" \times 5"$ hand hole is located 14" above the bottom of pole base on 4-6" poles. 3" poles have a 2-5/8" x 4-1/2" hand hole located 14" above the bottom of the base plate. A 1/2" stainless-steel weld stud with grounding lug is located inside the pole, opposite the hand hole.

Cree Lighting poles are steel shot cleaned to remove any rust, mill scale, oxides, or other unwanted particles from the pole resulting in a surface preparation that exceeds the specifications published by the SSPC-SP10. Iron phosphate is then applied, creating an iron oxide base with a flat or amorphous metal phosphate topcoat. This coating significantly adds to the performance of the finished coating by improving bonding and minimizing the spread of oxidation if the coating is scratched, improving corrosion resistance. Polyester powder coating is applied to a 6-mil thickness.

CONSTRUCTION & MATERIALS

- Square, non tapered pole of structural steel tubing (ASTM A 500 Grade B) with a minimum yield strength of 50,000 p.s.i. (4-6" poles) or 46,000 p.s.i. (3" poles) welded to a formed carbon steel base plate (ASTM A-36 HRS) with a minimum yield strength of 36,000 p.s.i.
- Anchor bolts (F1554 Grade 55) are "L" bent bars having a minimum yield strength of 55,000 p.s.i. The
 bolts are at least partially galvanized per ASTM A153 specifications and furnished complete with two
 (2) hex nuts and 2 flat washers
- Base cover is 2 pc.16 ga. painted galvannealed steel which connects with two 410 stainless steel screws included
- Pole cap is painted PVC
- Optional GFI receptacle available. Refer to page 3 for details

REGULATORY & VOLUNTARY QUALIFICATIONS

- · National Electrical Code Requirements
- UL Listed in US for electrical ground bonding
- · CSA Certified in Canada for ground bonding and structural strength
- RoHS Compliant (consult factory for details)

LIMITED WARRANTY

• 7 years for pole and tenons/7 years for finish /1 year for GFI receptacle

Ordering Information

Fully assembled pole is composed of two components that must be ordered separately. Example: Anchor Bolts w/Template: SSS-4-AB-3/4-28 + Pole: SSS-4-7-25-CW-BS-1D-C-BZ

Anchor Bolts /Ter	nplates (Pole must be ordered separately)
SSS-	
SSS-3-AB-3/4-18	Anchor Bolts & Template for 3" Poles: 0.75" anchor bolts, 10" bolt circle (9.25-11" range)
SSS-4-AB-3/4-18	Anchor Bolts & Template for 4", 10-12' Poles: 0.75" anchor bolts, 10" bolt circle (9.25-11" range)
SSS-4-AB-3/4-28	Anchor Bolts & Template for 4", 15'+ Poles: 0.75" anchor bolts, 10" bolt circle (9.25-11" range)
SSS-5-AB-1-36	Anchor Bolts & Template for 5" Poles: 1" anchor bolts, 10" bolt circle (9.75-11.31" range)
SSS-6-AB-1-36	Anchor Bolts & Template for 6" Poles: 1" anchor bolts, 11.5" bolt circle (11.25-12.75" range)
B 1 (A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	and the state of t



Rev Date: V10 01/24/2024

Crown-Weld Base (shown on 3" square pole)

Note: Poles must be unwrapped upon delivery.

SSS							cw	BS				
Design	Cross Section	Material		Wall Thickness (GA)	Mounting	j Height	Base Type	Base Casting/ Cover	Mounting Configuration	Fixture Mounting Drill Pattern**	Finish	Options
5 Straight	-	Steel	4 = 4" 5 = 5" 6 = 6"	3" Poles 11 11 gauge [0.125"] 4" Poles 11 11 gauge [0.125"] 7 7 gauge [0.188"] - Available only in 20', 22', 25' and 30' mounting heights 5" Poles 7 7 gauge [0.188"] 6" Poles 7 7 gauge [0.188"]	10 = 10' 15 = 15' 4" Poles 10 = 10' 12 = 12' 15 = 15'	5" Poles 15 = 15' 20 = 20' 22 = 22' 25 = 25' 30 = 30' 6" Poles 30 = 30'	CW Crown Weld	BS Standard Metal	Drilled Foles 1D Drilled for Direct Mount [Single] 2D90 Drilled for Direct Mount [2(a90deg)] 2D18 Drilled for Direct Mount [2(a180deg)] 3D90 Drilled for Direct Mount [3(a90deg)] 4D90 Drilled for Direct Mount [4(a90deg)] Open Top Poles OT* Open top to accept internal mount tenons or brackets	Use w/Drilled Poles C Standard Cree Lighting Drill Pattern - For use with Cree Lighting and C-LITE®area/flood luminaires except OSOX O OSOX Drill Pattern - Drill Pattern for use only with OSOX luminaires Use w/Open Top Poles N None - Required with OT mounting configuration	BK Black BZ Bronze SV Silver WH White	GFI GFI Receptacle - Available only with 4"-6"poles - Located 28" above the base of the pole on same side as hand hole. Consult factory for placement in other locations

^{*} Order tenon separately. Refer to <u>Bracket and Tenons spec sheet</u> for additional information. ** Refer to page 3 for fixture mounting patterns.

CA RESIDENTS WARNING: Cancer and Reproductive Harm –



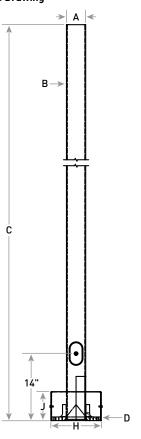






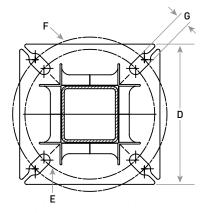


Pole Drawing



Refer to page 4 for dimensions A-J. Dimensions are based on pole selection.

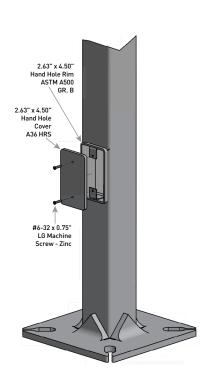
Base Plate Detail



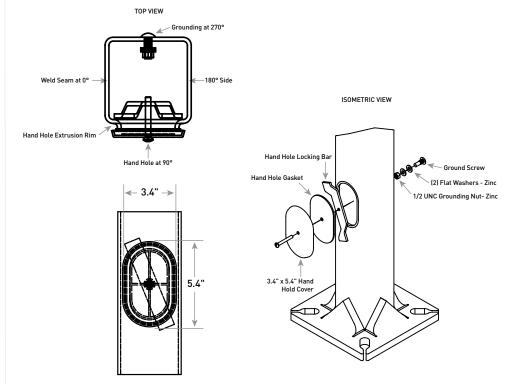
Refer to page 4 for dimensions A-J. Dimensions are based on pole selection.

Pole Width	Pole Height	Part Number	Anchor Bolt Diameter (K)	Anchor Bolt Vertical Length (L)	Anchor Bolt Horizontal Length (M)	Bolt Circle/ Range
3"	All	SSS-3-AB-3/4-18	0.75"	17"	3"	10"/9.25-11"
4"	10'-12'	SSS-4-AB-3/4-18	0.75"	17"	3"	10"/9.25-11"
4"	15' +	SSS-4-AB-3/4-28	0.75"	24"	4"	10"/9.25-11"
5"	All	SSS-5-AB-1-36	1"	36"	4"	10"/9.75-11.31"
6"	All	SSS-6-AB-1-36	1"	36"	4"	11.5"/11.25-12.75

Hand Hole Drawings (3" Poles Only)



Hand Hole Drawings (4-6" Poles Only)

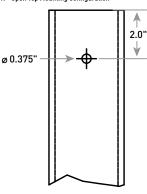


US: creelighting.com (800) 236-6800 Canada: creelighting-canada.com (800) 473-1234

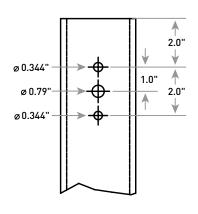
CREE \$\Dightarrow\$ LIGHTING

Fixture Mounting Drill Patterns

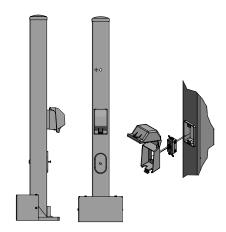
N - Open Top Mounting Configuration



C - Standard Cree Lighting Fixture Mounting Drill Pattern



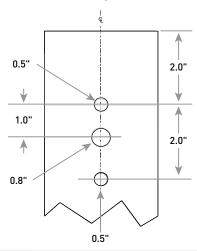
Optional GFI (shown on 4-6" pole)



CONSTRUCTION & MATERIALS

- Heavy-duty steel construction
- · Lockable security cover
- Includes adapter plates and foam gasket
- 20A, 120V, 60Hz GFCI, and cover also included
- 3-1/4" internal depth
- Standard GFI is located 28" above the pole base on the same side as the hand hole. Consult factory for placement in other locations
- Weatherproof while in use
- · Meets NEC Extra Duty requirements
- Receptacle and cover ship separately in hardware bag

Q - OSQX Mounting Drill Pattern



Tenon EPA

Part Number	EPA
PB-1A*	None
PB-2A*	0.82
PB-3A*	1.52
PB-4A* (180)	2.22
PB-4A* (90)	1.11
PD Series Tenons	0.09
PW-1A3**	0.47
PW-2A3**	0.94
XA-TMDA8	0.07

Tenons and Brackets‡ (must specify color)

Square Internal Mount Vertical Tenons (Steel)

- Mounts to 3-6" (76-152mm) square aluminum or steel poles - For use with adjustable arm & horizontal/vertical tenon mounts
- Not for use with THE $\mathsf{EDGE}^{\$}$ Area Round Post Top mounts

PB-1A* – Single PB-4A*(90) – 90° Quad PB-2A* –180° Twin PB-3A* –180° Triple

Square Internal Mount Horizontal Tenons (Aluminum)

- Mounts to 4" (102mm) square aluminum or steel poles
- For use with adjustable arm mounts and RUL luminaires
- Not for use with OSQX Area/Flood luminaires PD-2A4(90) - 90° Twin PD-3A4(90) -90° Triple PD-2A4(180) -180° Twin PD-4A4(90) -90° Quad

Square Internal Mount Horizontal Tenons (Aluminum)

- Mounts to 4" (102mm) square aluminum or steel poles
- For use with horizontal tenon mounts that require extended tenon length
- Not for use with OSQX Area/Flood luminaires

PD-1H4 - Single PD-3H4(90) - 90° Triple PD-2H4(90) -90° Twin PD-2H4(180) -180° Twin

Mid-Pole Bracket (Steel)

- Mounts to square pole
- For use with adjustable arm & horizontal/vertical tenon mounts

PW-1A3** - Single PW-2A3** - Double

Direct Arm Pole Adaptor Bracket (Aluminum)

- Mounts to 3-6" (76-152mm) round or square aluminum or steel poles
- For use with horizontal tenon mounts that require extended tenon length
- Not for use with OSQX Area/Flood luminaires XA-TMDA8

- ‡Refer to the <u>Bracket and Tenons spec sheet</u> for more details on tenons. Refer to product specification sheets for compatible tenons.
- * Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6") for single, double or triple luminaire orientation or 4 (4"), 5 (5"), or 6 (6") for quad luminaire orientation
 ** These EPA values must be multiplied by the following ratio: Fixture Mounting Height/Total Pole Height. Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6").



Dimensions, EPA & Weight

Product	Width (A) x Wall (B) x Height (C)	Base Plate (D) x Thickness	Bolt Circle/ Range Min (E) - Max (F)	Bolt Hole Size (G)	Base Cover (H) x Height (J)	Pole EPA Rating – Base Wind Velocity (MPH)								Maximum	Approx.
						70	80	90	100	110	120	130	140	Luminaire Weight	Shipping Weight
SSS-3-11- 10-CW-BS	3" x 11ga. x 10'	10" Sq. x 0.50"	10"/9.25-11"	0.88"	10.44" SQ x 5.5"	31.4	23.6	18.2	14.3	11.5	9.3	7.0	6.3	250 lbs. (114kg)	58 lbs. (26kg)
SSS-3-11- 15-CW-BS	3" x 11ga. x 15'	10" Sq. x 0.50"	10"/9.25-11"	0.88"	10.44" SQ x 5.5"	18.5	13.4	9.9	7.4	5.5	4.1	3.0	2.2	250 lbs. (114kg)	82 lbs. (37kg)
SSS-4-11- 10-CW-BS	4" x 11ga. x 10'	10" Sq. x 0.75"	10"/9.25-11"	0.88"	10.44" SQ x 5.5"	59.9	45.2	35.1	27.9	22.6	18.5	15.4	12.9	350 lbs. (159kg)	78 lbs. (35kg)
SSS-4-11- 12-CW-BS	4" x 11ga. x 12'	10" Sq. x 0.75"	10"/9.25-11"	0.88"	10.44" SQ x 5.5"	48.4	36.2	27.9	21.9	17.5	14.2	11.6	9.5	350 lbs. (159kg)	99 lbs. (45kg)
SSS-4-11- 15-CW-BS	4" x 11ga. x 15'	10" Sq. x 0.75"	10"/9.25-11"	0.88"	10.44" SQ x 5.5"	36.5	26.9	20.3	15.6	12.1	9.5	7.4	5.8	350 lbs. (159kg)	119 lbs. (54kg)
SSS-4-11- 17-CW-BS	4" x 11ga. x 17'	10" Sq. x 0.75"	10"/9.25-11"	0.88"	10.44" SQ x 5.5"	30.7	22.3	16.6	12.5	9.4	7.1	5.3	3.9	350 lbs. (159kg)	131 lbs. (59kg)
SSS-4-11- 20-CW-BS	4" x 11ga. x 20'	10" Sq. x 0.75"	10"/9.25-11"	0.88"	10.44" SQ x 5.5"	24.0	16.9	12.1	8.7	6.1	4.2	2.7	1.5	350 lbs. (159kg)	150 lbs. (68kg)
SSS-4-11- 22-CW-BS	4" x 11ga. x 22'	10" Sq. x 0.75"	10"/9.25-11"	0.88"	10.44" SQ x 5.5"	20.4	14.0	9.7	6.6	4.3	2.5	1.2	0.1	310 lbs. (141kg)	163 lbs. (74kg)
SSS-4-11- 25-CW-BS	4" x 11ga. x 25'	10" Sq. x 0.75"	10"/9.25-11"	0.88"	10.44" SQ x 5.5"	15.9	10.4	6.6	3.9	1.9	0.4	0.0	0.0	350 lbs. (159kg)	182 lbs. (83kg)
SSS-4-11- 27-CW-BS*	4" x 11ga. x 27'	10" Sq. x 0.75"	10"/9.25-11"	0.88"	10.44" SQ x 5.5"	22.0	14.9	10.0	6.6	4.0	2.0	0.0	0.0	280 lbs. (127kg)	232 lbs. (105kg)
SSS-4-11- 30-CW-BS*	4" x 11ga. x 30'	10" Sq. x 0.75"	10"/9.25-11"	0.88"	10.44" SQ x 5.5"	17.7	11.4	7.1	4.0	1.7	0.0	0.0	0.0	315 lbs. (143kg)	301 lbs. (137kg)
SSS-4-7-														350 lbs.	177 lbs.
20-CW-BS	4" x 7ga. x 20'	10" Sq. x 0.75"	10"/9.25-11"	0.88"	10.44" SQ x 5.5"	35.9	26.1	19.3	14.5	10.9	8.2	6.1	4.4	(159kg)	(80kg)
SSS-4-7- 22-CW-BS	4" x 7ga. x 22'	10" Sq. x 0.75"	10"/9.25-11"	0.88"	10.44" SQ x 5.5"	31.1	22.3	16.2	11.8	8.6	6.2	4.3	2.8	350 lbs. (159kg)	207 lbs. (94kg)
SSS-4-7- 25-CW-BS	4" x 7ga. x 25'	10" Sq. x 0.75"	10"/9.25-11"	0.88"	10.44" SQ x 5.5"	25.3	17.6	12.3	8.5	5.7	3.6	1.9	0.6	350 lbs. (159kg)	252 lbs. (114kg)
SSS-4-7- 30-CW-BS	4" x 7ga. x 30'	10" Sq. x 0.75"	10"/9.25-11"	0.88"	10.44" SQ x 5.5"	19.5	12.5	7.8	4.4	1.9	0.0	0.0	0.0	340 lbs. (155kg)	337 lbs. (153kg)
SSS-5-7- 15-CW-BS	5" x 7ga. x 15'	10" Sq. x 0.75"	10"/9.75-11.31"	1.25"	10.44" SQ x 5.5"	87.4	65.6	50.7	40.0	32.1	26.1	21.4	17.7	450 lbs. (204kg)	202 lbs. (92kg)
SSS-5-7- 20-CW-BS	5" x 7ga. x 20'	10" Sq. x 0.75"	10"/9.75-11.31"	1.25"	10.44" SQ x 5.5"	60.6	44.6	33.7	25.8	20.0	15.6	12.2	9.5	450 lbs. (204kg)	261 lbs. (118kg)
SSS-5-7- 22-CW-BS	5" x 7ga. x 22'	10" Sq. x 0.75"	10"/9.75-11.31"	1.25"	10.44" SQ x 5.5"	53.1	38.7	28.8	21.7	16.5	12.5	9.4	7.0	450 lbs. (204kg)	285 lbs. (129kg)
SSS-5-7- 25-CW-BS	5" x 7ga. x 25'	10" Sq. x 0.75"	10"/9.75-11.31"	1.25"	10.44" SQ x 5.5"	43.9	31.4	22.8	16.6	12.1	8.7	6.0	3.8	450 lbs. (204kg)	320 lbs. (145kg)
SSS-5-7- 30-CW-BS	5" x 7ga. x 30'	10" Sq. x 0.75"	10"/9.75-11.31"	1.25"	10.44" SQ x 5.5"	32.2	21.9	14.9	9.9	6.2	3.4	1.2	0.0	375 lbs. (170kg)	379 lbs. (172kg)
CCC / 7														E2E II	20/ 15-
SSS-6-7- 25-CW-BS	6" x 7ga. x 25'	12" Sq. x 1"	11.5"/11.25-12.75"	1.25"	12.44" SQ x 6.15"	67.5	49.0	36.3	27.2	20.5	15.4	11.4	8.3	525 lbs. (238kg)	396 lbs. (180kg)
SSS-6-7- 30-CW-BS	6" x 7ga. x 30'	12" Sq. x 1"	11.5"/11.25-12.75"	1.25"	12.44" SQ x 6.15"	50.8	35.7	25.3	17.9	12.4	8.2	4.9	2.4	525 lbs. (238kg)	457 lbs. (207kg)

NOTE: Hanging signs, banners and flags on poles changes the EPA rating and increases vibration. The EPA ratings data provided does not allow for this added stress which could result in pole or luminaire failure.

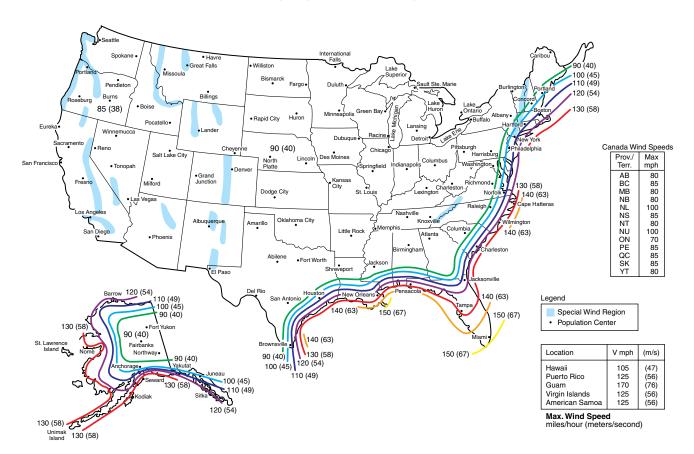
* Includes an internal 5/16" steel reinforced sleeve welded inside the bottom 24" of the pole as well as a reinforcement welded around the hand hole for added strength.



Hanging signs, banners and flags on light poles change the EPA rating and increase vibration. The EPA ratings data provided on this guide does not allow for this added stress, which could result in pole or fixture failure.



This map indicates approximate maximum wind zones throughout the U.S. Base wind velocities are established using a 50-year recurring mean. The EPA rating of the pole must be equal to or greater than that of the luminaire(s), taking into consideration the wind conditions at the job site. It is the customer's responsibility to carefully select poles and associated accessories based upon proper mounting configurations and wind loading in area where the installation will occur.



Field-Installed Accessories

Vibration Dampeners

SSS-ACC-VIB-DMPNR-10-15FT (for 10'-15' poles) SSS-ACC-VIB-DMPNR-16-20FT (for 16'-20' poles)

SSS-ACC-VIB-DMPNR-21-25FT (for 21'-25' poles) SSS-ACC-VIB-DMPNR-26-30FT (for 26-30' poles)

- Chain encased in plastic tubing used to minimize the effects

caused by wind-induced Aeolian vibration

