



SITE LOCATION MAP SCALE: 1" = 400'

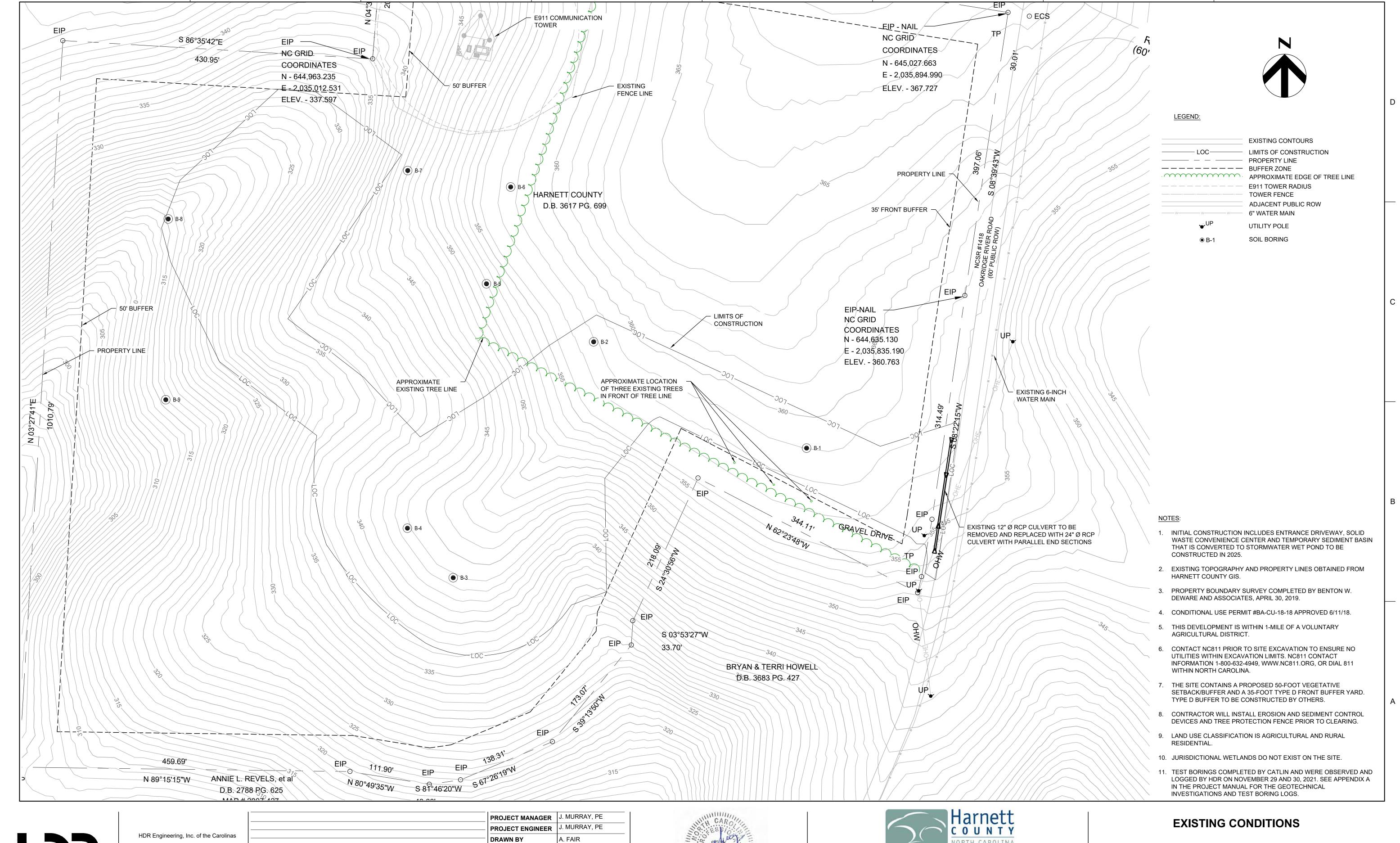
Harnett County Northwest Convenience Center

Project No. 10400190

Harnett County, North Carolina Issued for Construction September 2025

INDEX OF DRAWINGS

	GENERAL 00G-00 00G-01 00G-02 00G-03 00G-04	COVER SHEET EXISTING CONDITIONS EROSION AND SEDIMENT CONTROL PLAN NCG01 GROUND STABILIZATION AND MATERIALS HANDLING NCGP1 SELF INSPECTION, RECORDKEEPING AND REPORTING
	CIVIL 00C-01 00C-02 00C-03 00C-04 00C-05 00C-06	SITE PLAN SITE DETAILS (1 OF 4) SITE DETAILS (2 OF 4) SITE DETAILS (3 OF 4) SITE DETAILS (4 OF 4) WET POND SITE PLAN AND PLANTING PLAN
	STRUCTUR 00S-01 99S-01 99S-02 99S-03	AL FOUNDATION PLAN AND SECTION GENERAL AND MATERIAL NOTES STRUCTURAL STANDARD DETAILS 1 STRUCTURAL STANDARD DETAILS 2
(NOT THIS CONTRACT)	ELECTRICA 00E-01 00E-02 00E-03 00E-04 00E-05 00E-06 00E-07	ELECTRICAL LEGEND ELECTRICAL SITE PLAN ELECTRICAL SITE LIGHTING PLAN ELECTRICAL SITE PHOTOMETRIC PLAN ELECTRICAL SITE ENLARGED PLAN ELECTRICAL SCHEDULES AND RISER DIAGRAM ELECTRICAL DETAILS





HDR Engineering, Inc. of the Carolinas

N.C.B.E.L.S. License Number: F-0116

555 Fayetteville Street, Suite 900
Raleigh, NC 27601
919.232.6600

			PROJECT MANAGER	J. MURRAY, PE
			PROJECT ENGINEER	J. MURRAY, PE
			DRAWN BY	A. FAIR
В	09/2025	ISSUED FOR CONSTRUCTION		
A	05/2025	ISSUED FOR BIDDING		
ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	10400190
•			•	•



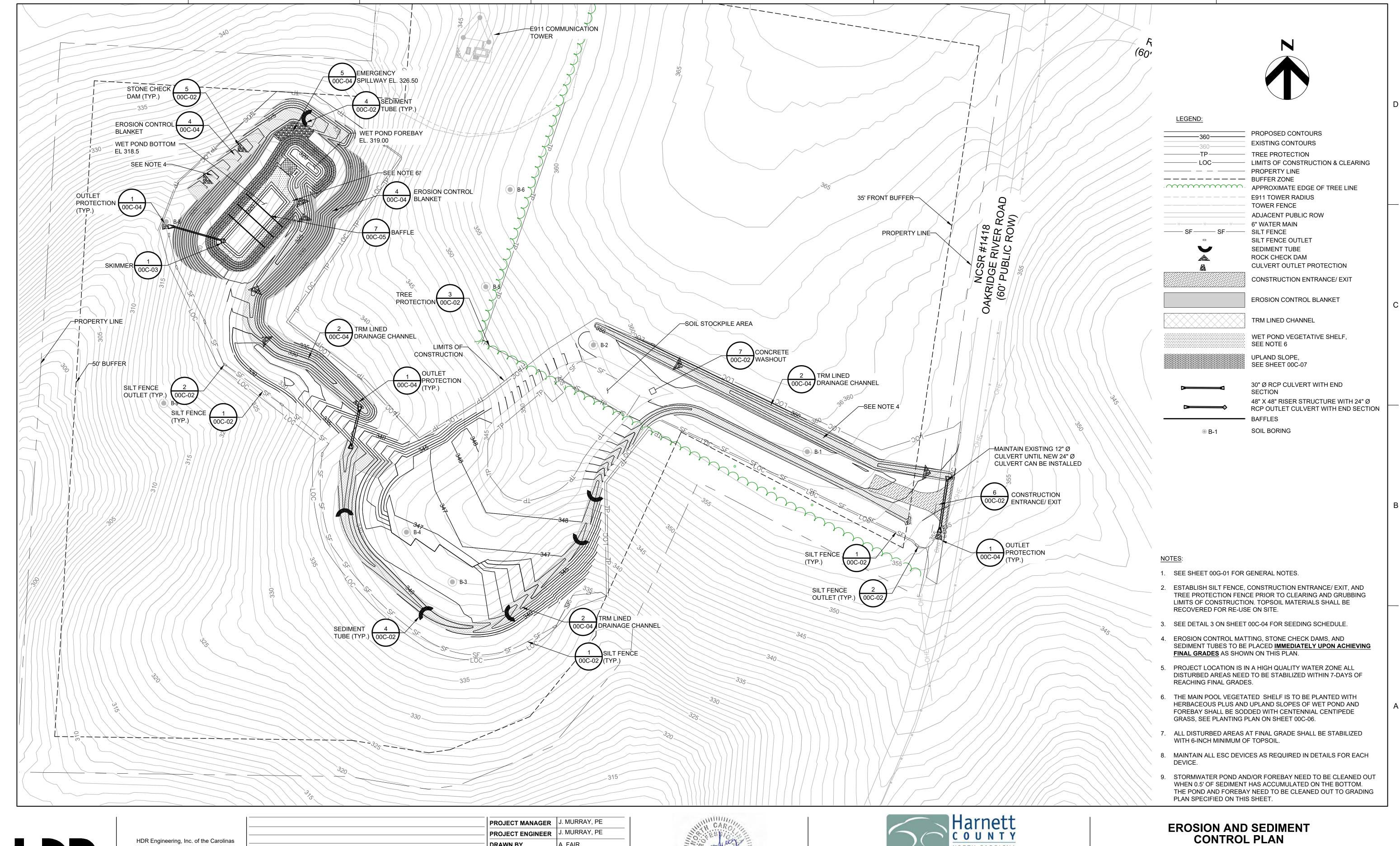


HARNETT COUNTY

NORTH CAROLINA



00G-01





HDR Engineering, Inc. of the Carolinas N.C.B.E.L.S. License Number: F-0116 555 Fayetteville Street, Suite 900 Raleigh, NC 27601 919.232.6600

			PROJECT MANAGER	J. MURRAY, PE
			PROJECT ENGINEER	J. MURRAY, PE
			DRAWN BY	A. FAIR
В	09/2025	ISSUED FOR CONSTRUCTION		
Α	05/2025	ISSUED FOR BIDDING		
ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	10400190





HARNETT COUNTY NORTHWEST CONVENIENCE CENTER

HARNETT COUNTY

NORTH CAROLINA





SHEET 00G-02 activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority having jurisdiction.

SECTION E: GROUND STABILIZATION

	Re	equired Ground Stabil	ization 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

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

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 Stabilization	Permanent Stabilization
 Temporary grass seed covered with straw or other mulches and tackifiers Hydroseeding Rolled erosion control products with or without temporary grass seed Appropriately applied straw or other mulch Plastic sheeting 	 Permanent grass seed covered with straw or other mulches and tackifiers Geotextile fabrics such as permanent soil reinforcement matting Hydroseeding Shrubs or other permanent plantings covered with mulch Uniform and evenly distributed ground cover sufficient to restrain erosion Structural methods such as concrete, asphalt or retaining walls Rolled erosion control products with grass seed

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

- 1. Select flocculants that are appropriate for the soils being exposed during construction, selecting from the NC DWR List of Approved PAMS/Flocculants.
- 2. Apply flocculants at or before the inlets to Erosion and Sediment Control Measures.
- 3. Apply flocculants at the concentrations specified in the NC DWR List of Approved PAMS/Flocculants and in accordance with the manufacturer's instructions.
- 4. Provide ponding area for containment of treated Stormwater before discharging offsite.
- 5. Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures.

EQUIPMENT AND VEHICLE MAINTENANCE

- 1. Maintain vehicles and equipment to prevent discharge of fluids.
- 2. Provide drip pans under any stored equipment.
- 3. Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.
- 4. Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).
- 5. Remove leaking vehicles and construction equipment from service until the problem has been corrected.
- 6. 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

- 1. Never bury or burn waste. Place litter and debris in approved waste containers.
- 2. Provide a sufficient number and size of waste containers (e.g dumpster, trash receptacle) on site to contain construction and domestic wastes.
- 3. Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- 4. 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.
- 5. Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.
- 6. Anchor all lightweight items in waste containers during times of high winds.
- 7. Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.
- 8. Dispose waste off-site at an approved disposal facility.
- On business days, clean up and dispose of waste in designated waste containers.

PAINT AND OTHER LIQUID WASTE

construction sites.

- 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.
- Containment must be labeled, sized and placed appropriately for the needs of site.
 Prevent the discharge of soaps, solvents, detergents and other liquid wastes from

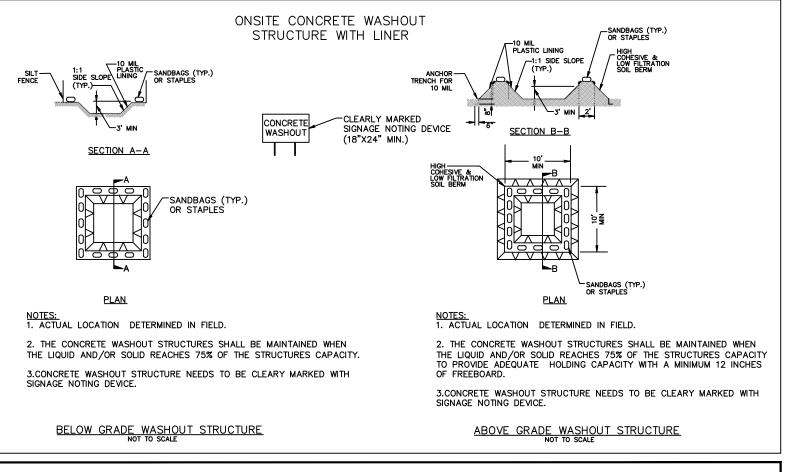
PORTABLE TOILETS

- 1. 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.
- 2. Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas.
- 3. 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

- 1. 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.
- 2. Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
- 3. 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.



CONCRETE WASHOUTS

- 1. 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.
- 3. 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.
- 4. Install temporary concrete washouts per local requirements, where applicable. If an 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.
- 5. 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.
- 6. 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.
- 7. 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.
- 8. 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.
- 9. 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 restrictions
- 2. 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.
- 4. Do not stockpile these materials onsite.

HAZARDOUS AND TOXIC WASTE

- 1. Create designated hazardous waste collection areas on-site.
- 2. Place hazardous waste containers under cover or in secondary containment.

NORTH CAROLINA

3. Do not store hazardous chemicals, drums or bagged materials directly on the ground.

NCG01 GROUND STABILIZATION AND MATERIALS HANDLING

| EFFECTIVE: 04/01/19



HDR Engineering, Inc. of the Carolinas

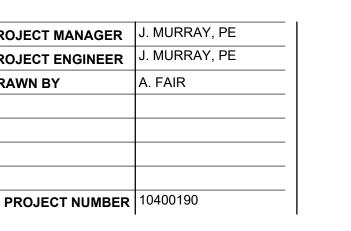
N.C.B.E.L.S. License Number: F-0116

555 Fayetteville Street, Suite 900

Raleigh, NC 27601

919.232.6600

			PROJECT MA
			PROJECT EN
			DRAWN BY
В	09/2025	ISSUED FOR CONSTRUCTION	
Α	05/2025	ISSUED FOR BIDDING	
SSUE	DATE	DESCRIPTION	PROJECT







HARNETT COUNTY

HARNETT COUNTY
NORTHWEST CONVENIENCE CENTER

0 1" 2" **FILENAME** 00G-03.dwg **SCALE** -

NCG01 GROUND STABILIZATION

AND MATERIALS HANDLING

SHEET 00G-03

PART III

SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION A: SELF-INSPECTION

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

Inspect	Frequency (during normal business hours)	Inspection records must include:			
(1) Rain gauge Daily maintained in good working order		Daily rainfall amounts. If no daily rain gauge observations are made during weekend of holiday periods, and no individual-day rainfall information is available, record the cumulative rain measurement for those un attended days (and this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as "zero." The permittee may use another rain-monitoring device approved by the Division.			
(2) E&SC Measures	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	 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	 Identification of the discharge outfalls inspected, Date and time of the inspection, Name of the person performing the inspection, Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration, Indication of visible sediment leaving the site, Description, evidence, and date 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: Actions taken to clean up or stabilize the sediment that has left the site limits, Description, evidence, and date of corrective actions taken, ar 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			
(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.

PART III

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 kept on site and available for inspection at all times during normal business hours.

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 to be Kept on Site

In addition to the E&SC plan documents above, the following items shall be kept on the site and available for inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:

- (a) This General Permit as well as the Certificate of Coverage, after it is received.
- (b) Records of inspections made during the previous twelve months. 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.

3. Documentation to be Retained for Three Years

All data used to complete the e-NOI and all inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

PART II, SECTION G, ITEM (4)

DRAW DOWN OF SEDIMENT BASINS FOR MAINTENANCE OR CLOSE OUT

Sediment basins and traps that receive runoff from drainage areas of one acre or more shall use outlet structures that withdraw water from the surface when these devices need to be drawn down for maintenance or close out unless this is infeasible. The circumstances in which it is not feasible to withdraw water from the surface shall be rare (for example, times with extended cold weather). Non-surface withdrawals from sediment basins shall be allowed only when all of the following criteria have been met:

- (a) The E&SC plan authority has been provided with documentation of the non-surface withdrawal and the specific time periods or conditions in which it will occur. The non-surface withdrawal shall not commence until the E&SC plan authority has approved these items,
- (b) The non-surface withdrawal has been reported as an anticipated bypass in accordance with Part III, Section C, Item (2)(c) and (d) of this permit,
- (c) Dewatering discharges are treated with controls to minimize discharges of pollutants from stormwater that is removed from the sediment basin. Examples of appropriate controls include properly sited, designed and maintained dewatering tanks, weir tanks, and filtration systems,
- (d) Vegetated, upland areas of the sites or a properly designed stone pad is used to the extent feasible at the outlet of the dewatering treatment devices described in Item (c) above,
- (e) Velocity dissipation devices such as check dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices, and
- (f) Sediment removed from the dewatering treatment devices described in Item (c) above is disposed of in a manner that does not cause deposition of sediment into waters of the United States.

PART III 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).
- (c) 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.
- (d) Anticipated bypasses and unanticipated bypasses.
- (e) Noncompliance with the conditions of this permit that may endanger health or the environment.

2. Reporting Timeframes and Other Requirements

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

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

NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

EFFECTIVE: 04/01/19



HDR Engineering, Inc. of the Carolinas N.C.B.E.L.S. License Number: F-0116 555 Fayetteville Street, Suite 900 919.232.6600

			PROJECT MANAGER	J. MURRAY, PE
			PROJECT ENGINEER	J. MURRAY, PE
			DRAWN BY	A. FAIR
В	09/2025	ISSUED FOR CONSTRUCTION		
Α	05/2025	ISSUED FOR BIDDING		
SSUE	DATE	DESCRIPTION	PROJECT NUMBER	10400190
			•	•





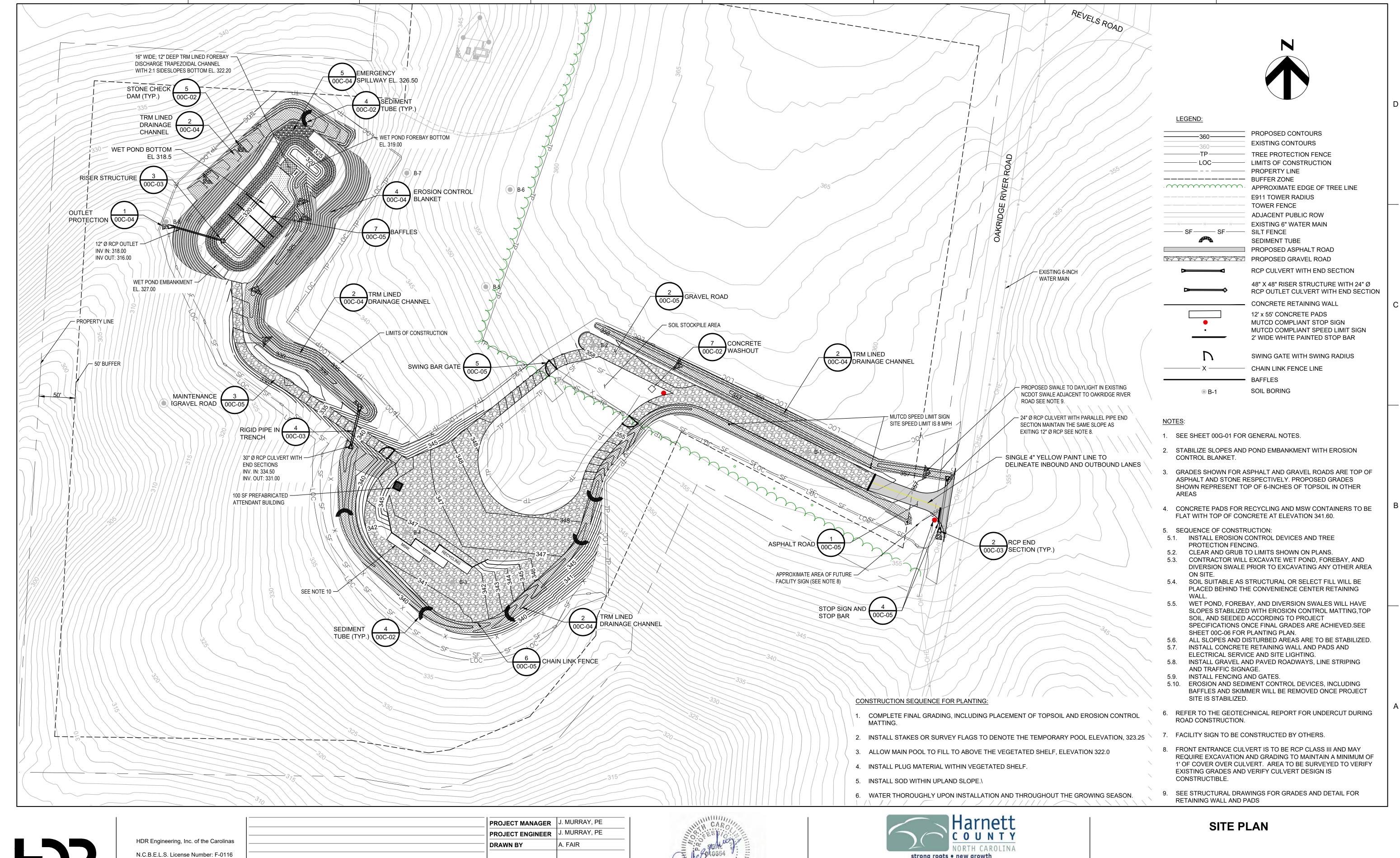
HARNETT COUNTY NORTHWEST CONVENIENCE CENTER

FILENAME | 00G-04.dwg

00G-04

HARNETT COUNTY NORTH CAROLINA

NCG01 SELF INSPECTION, RECORDKEEPING AND REPORTING

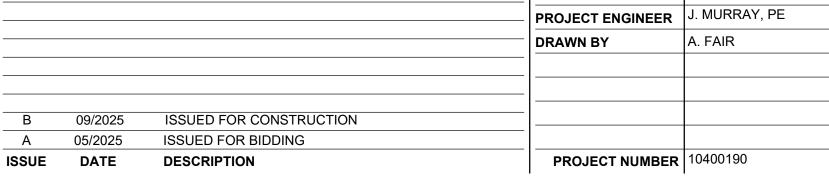




555 Fayetteville Street, Suite 900

Raleigh, NC 27601

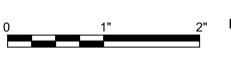
919.232.6600





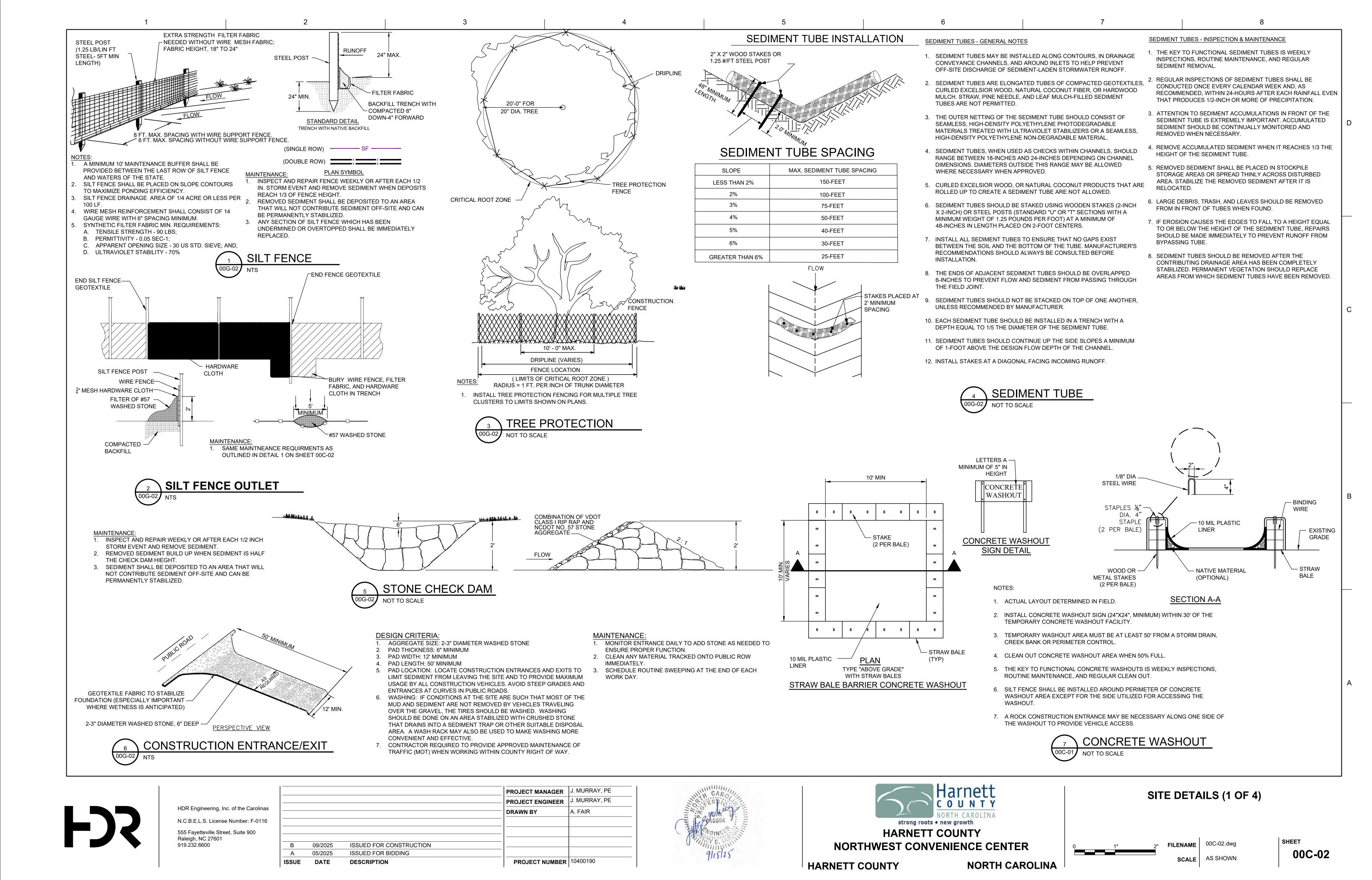


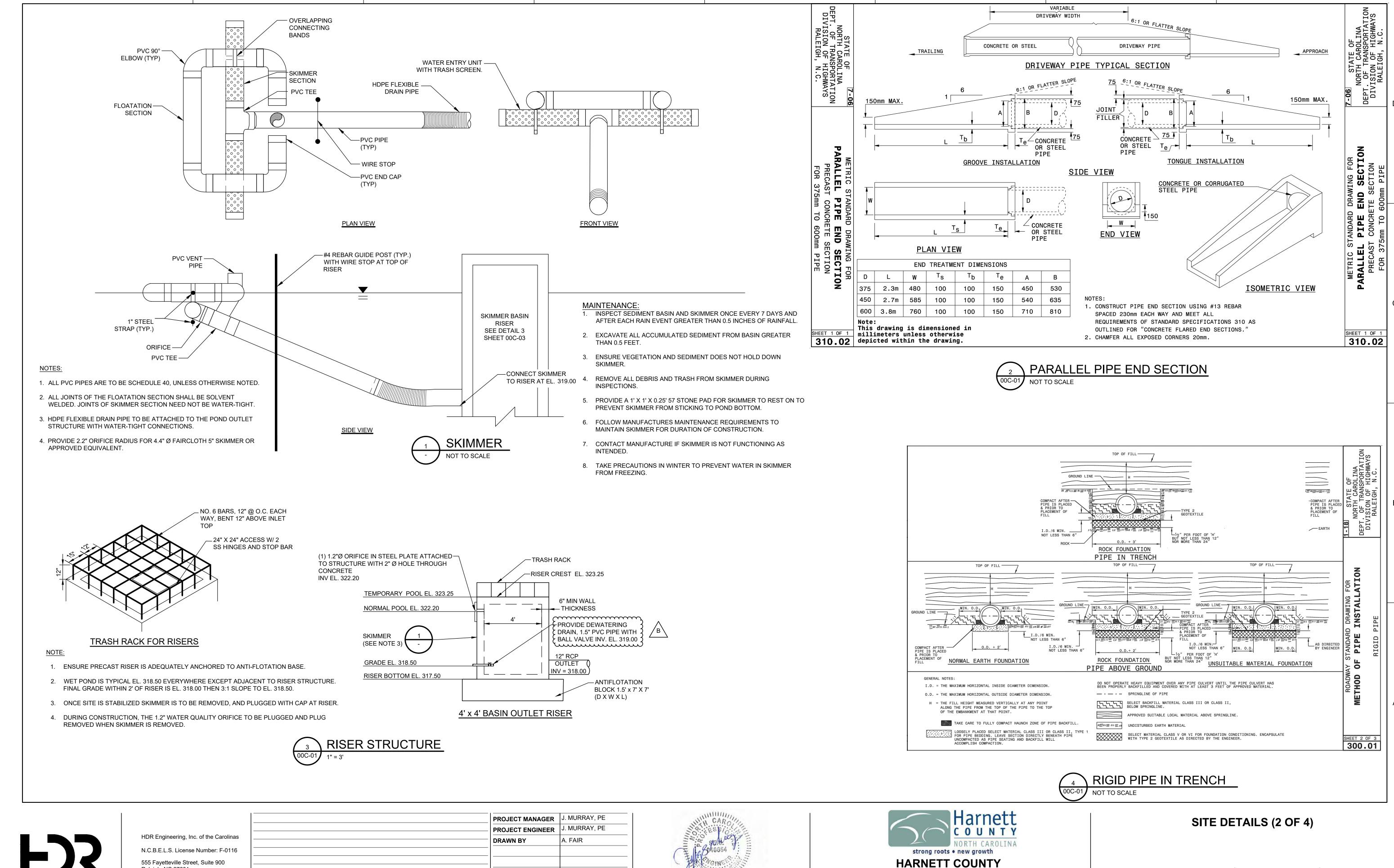
HARNETT COUNTY NORTHWEST CONVENIENCE CENTER **NORTH CAROLINA** HARNETT COUNTY



SCALE 1" = 60'

SHEET 00C-01





Raleigh, NC 27601 919.232.6600

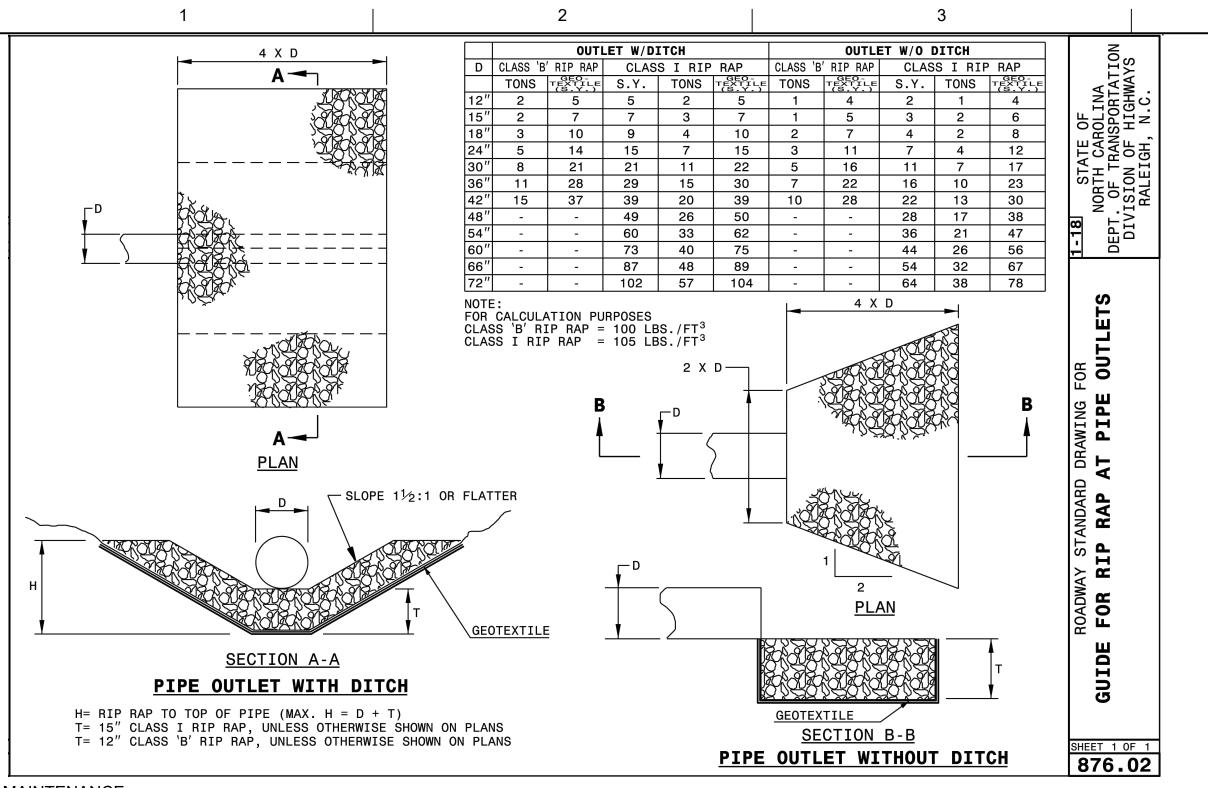
			•	•
ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	10400190
Α	05/2025	ISSUED FOR BIDDING		
В	09/2025	ISSUED FOR CONSTRUCTION		
			DRAWN BY	A. FAIR
			PROJECT ENGINEER	J. MURRAY, PE
			PROJECT MANAGER	J. MURRAY, PE



HARNETT COUNTY NORTHWEST CONVENIENCE CENTER **NORTH CAROLINA** HARNETT COUNTY



SHEET 00C-03



- 6" TOPSOIL, SEED AND NORTH AMERICAN VMAX SC250 TRM

- 1. INSTALL AND ANCHOR TURF REINFORCED MAT PER MANUFACTURER'S RECOMMENDATIONS.
- 2. SEE GRADING PLAN FOR VARIATIONS IN CHANNEL DEPTH.



MAINTENANCE:

PERMANENTLY STABILIZED.

- INSPECT AND REPAIR WEEKLY OR AFTER EACH 1/2 INCH STORM EVENT AND REMOVE SEDIMENT. REMOVE ALL
- ACCUMULATED SEDIMENT ON OUTLET PROTECTION. REPLACE STONE AS NEEDED TO MAINTAIN SPECIFIED
- DIMENSIONS. SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE



SEEDING SCHEDULE:

PERFORM SPRING SEEDING BETWEEN FEBRUARY 1 AND APRIL 15. PERFORM FALL SEEDING BETWEEN AUGUST 20 AND OCTOBER 25. SEEDING MIX:

1. TALL FESCUE: 100 LBS/AC

- 2. COMMON BERMUDA GRASS: 25 LBS/AC (USE UNHULLED SEEDING IN FALL)
- 3. KOBE LESPEDEZA: 10 LBS/AC (INCREASE TO 40 LBS/AC ON SLOPES)

NURSE PLANTS:

- 1. BETWEEN MAY 1 AND AUGUST 15, ADD 10 LBS/AC GERMAN MILLET OR 15 LBS/AC SUDANGRASS
- 2. PRIOR TO MAY 1 AND AFTER AUGUST 15, ADD 40 LBS/AC RYE

ALTERNATE SEEDING MIX MAY BE PROPOSED BY CONTRACTOR FOR APPROVAL BY ENGINEER

TEMPORARY SEEDING:

- JANUARY 1 THROUGH MAY 1:
- 1. RYE (GRAIN): 120 LBS/AC 2. KOBE LESPEDEZA: 50 LBS/AC
- MAY 1 THROUGH AUGUST 15: 1. GERMAN MILLET: 40 LBS/AC
- AUGUST 15 THROUGH DECEMBER 15 (WITH APPROVAL OF ENGINEER):
- 1. RYE (GRAIN): 120 LBS/AC

IMMEDIATELY PROTECT SEEDED AREAS AGAINST EROSION BY MULCHING OR PLACING EROSION CONTROL MATTING. USE EROSION CONTROL MATTING OR BONDED FIBER MATRIX WHERE REQUIRED ON DRAWINGS OR IN SPECIFICATIONS. STRAW MULCH:

- 1. CLEAN, SEED FREE, THRESHED STRAW OF OATS, WHEAT, BARLEY, RYE, OR OTHER LOCALLY AVAILABLE MULCH MATERIAL.
- 2. SPREAD MULCH IN A CONTINUOUS BLANKET USING 2 TONS/ACRE TO A DEPTH OF 4 TO 5 STRAWS.

Raleigh, NC 27601

919.232.6600

- 3. IMMEDIATELY FOLLOWING SPREADING OF MULCH, SECURE
- 4. APPLY ASPHALT BINDER AT A RATE OF 0.10 GALS PER SQUARE YARD (10 GALS/1,000 SQ FT) OR ANCHOR WITH LIGHTWEIGHT NETS STAPLED OVER MULCH.

WOOD FIBER AND CELLULOSE FIBER MULCH (HYDROSEEDING):

- 3. MOISTURE CONTENT: 12%
- 4. WOOD FIBER: 70% MAXIMUM
- 5. CELLULOSE FIBER: 30% MAXIMUM

EROSION CONTROL MAT:

- ROLLED WOOD EXCELSIOR MATTING
- 3. LONGEVITY: 8 MONTHS
- FIBERS 6-INCHES OR MORE. 7. INSTALL PER DETAIL 7 ON SHEET 00C-02 OR MANUFACTURER'S RECOMMENDATIONS.

BONDED FIBER MATRIX (OPTION FOR SLOPES):

- OF MULCH SECOND PASS - INCLUDE 2/3 OF MULCH AND APPLY IN
- OPPOSING DIRECTION OF FIRST PASS IF APPLIED BY TOWER

TURF REINFORCEMENT MAT:

- ROLLED POLYPROPYLENE PRODUCT STABILIZED AGAINST UV
- AND CHEMICAL DEGRADATION.
- ALLOWABLE FLOW VELOCITY: 7 FPS MINIMUM

WITH NETTING OR ASPHALT BINDER.

- USE WITH DARK GREEN MARKER DYE. 2. pH: 5

- 6. WATER HOLDING CAPACITY: 1100% MINIMUM
- 7. APPLY WITH SEED AS PART OF A HYDROSEEDER SLURRY.

- ALLOWABLE SHEAR STRESS: 1.75 PSF MINIMUM
- 4. TOP NET: PHOTODEGRADABLE POLYPROPYLENE BOTTOM NET: NONE
- 6. FIBER MATRIX: 100% WOOD EXCELSIOR (0.5 LBS/SY) 80% OF

- APPLY IN 2-STEP PROCESS AS FOLLOWS:
- FIRST PASS INCLUDE ALL SEED, ALL AMMENDMENTS, AND 1/3
- 2. SEE SECTION 02485 FOR ADDITIONAL INFORMATION

- 2. ALLOWABLE SHEAR STRESS: 7 PSF MINIMUM
- 4. LONGEVITY: PERMANENT

MAINTENANCE NOTES:

SLOPE VEGETATION SELECTION AND -

INSTALLATION PROCEDURE BY OTHERS.

- 2. GOOD CONTACT WITH THE GROUND MUST BE MAINTAINED, AND
- 3. ANY AREAS OF THE BLANKET THAT ARE DAMAGED OR NOT IN CLOSE CONTACT WITH THE GROUND SHALL BE REPAIRED AND
- 4. IF EROSION OCCURS DUE TO POORLY CONTROLLED DRAINAGE, THE PROBLEM SHALL BE FIXED AND THE ERODED AREA
- 5. MONITOR AND REPAIR THE BLANKET AS NECESSARY UNTIL GROUND COVER IS ESTABLISHED.

ANCHOR BLANKET IN TRENCH, BACKFILL AND COMPACT BEFORE PROCEEDING WITH INSTALLATION. 3:1 OR STEEPER SLOPE PLACE BLANKET ON SMOOTH FINISHED SURFACE IRREGULARITIES SHALL BE REMOVED TO PROVIDE CONTINUOUS BLANKET CONTACT. STAPLE BLANKET AT 1 FOOT INTERVALS ALONG THE BOTTOM OF THE TRENCH, BACKFILL

AND COMPACT < → 12" MIN.

EROSION CONTROL BLANKET (NAG SC150 OR APPROVED EQUAL)

STAPLE (TYP.) -

- 1. INSPECT ROLLED EROSION CONTROL PRODUCTS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1 INCH OR GREATER) RAIN FALL EVENT REPAIR IMMEDIATELY.
- EROSION MUST NOT OCCUR BENEATH THE BLANKET.
- STAPLED.
- PROTECTED.

INSTALLATION NOTES:

1. SEED SLOPE FACE PRIOR TO PLACEMENT OF EROSION BLANKET.

─── 12" MIN.

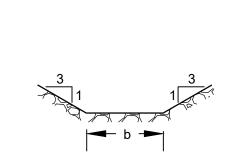
bolombo

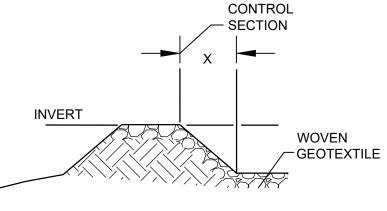
┌─ 12" MIN.

- 2. WHEN OVERLAPPING BLANKETS, A MINIMUM OVERLAP OF 3 INCHES ON THE ADJACENT ROLL ALONG THE SLOPE, AND A MINIMUM OF 1 FOOT PERPENDICULAR TO THE SLOPE (ALONG THE CONTOURS).
- 3. BLANKET SHOULD BE STABLED USING A 3 FOOT CENTER-TO-CENTER PATTERN.

EROSION CONTROL BLANKET

4. STAPLES SHOULD BE 11 GAUGE, AT LEAST 6 INCHES LENGTH BY 1 INCH WIDTH STAPLES OR 12 INCH MINIMUM LENGTH WOODEN STAKES, OR APPROVED EQUAL. STAPLES SHALL BE DRIVEN SUCH THAT THE TOP OF THE STAPLE IS FLUSH WITH THE GROUND SURFACE.





CROSS SECTION OF RIPRAP SPILLWAY AT CONTROL SECTION PROFILE ALONG CENTERLINE OF RIPRAP SPILLWAY

SITE DETAILS (3 OF 4)

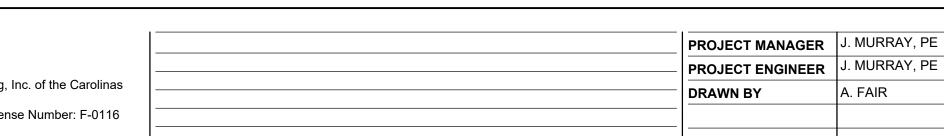
<u>LEGEND</u>

- b = BOTTOM WIDTH OF EARTH SPILLWAY AT THE CONTROL SECTION, IN FEET. S = FLATTEST SLOPE (S), IN %, ALLOWABLE FOR CHANNEL BELOW CONTROL SECTION. X = MINIMUM LENGTH OF CHANNEL BELOW CONTROL SECTION, IN FEET.
- z = SIDE SLOPE RATIO.

SEDIMENT BASIN ID	MINIMUM WIDTH (FT.) (b)	INVERT	RIPRAP LAYER THICKNESS (IN.)	RIPRAP D50 (IN.)	RIPRAP DMAX (IN.)	S (%)	X (FT)	Z
1	25	326.5	18	8	12	2%	7.5	3











HARNETT COUNTY NORTHWEST CONVENIENCE CENTER **NORTH CAROLINA** HARNETT COUNTY

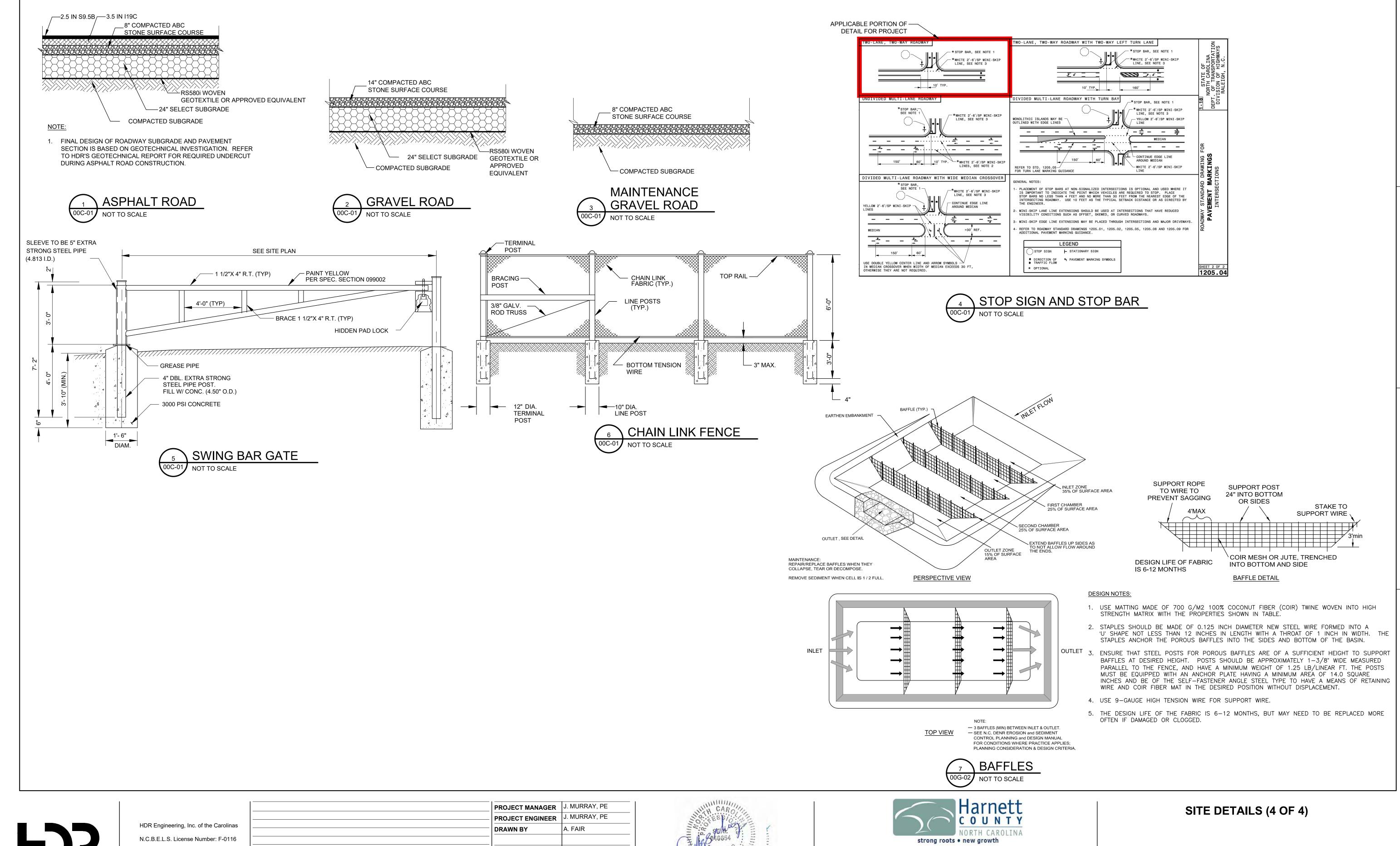
FILENAME 00C-06.dwg

SHEET 00C-04



HDR Engineering, Inc. of the Carolinas N.C.B.E.L.S. License Number: F-0116 555 Fayetteville Street, Suite 900

ISSUED FOR CONSTRUCTION 09/2025 05/2025 ISSUED FOR BIDDING PROJECT NUMBER | 10400190 DATE **DESCRIPTION**



Raleigh, NC 27601

919.232.6600

555 Fayetteville Street, Suite 900 ISSUED FOR CONSTRUCTION 09/2025 05/2025 ISSUED FOR BIDDING DATE **DESCRIPTION**



PROJECT NUMBER | 10400190

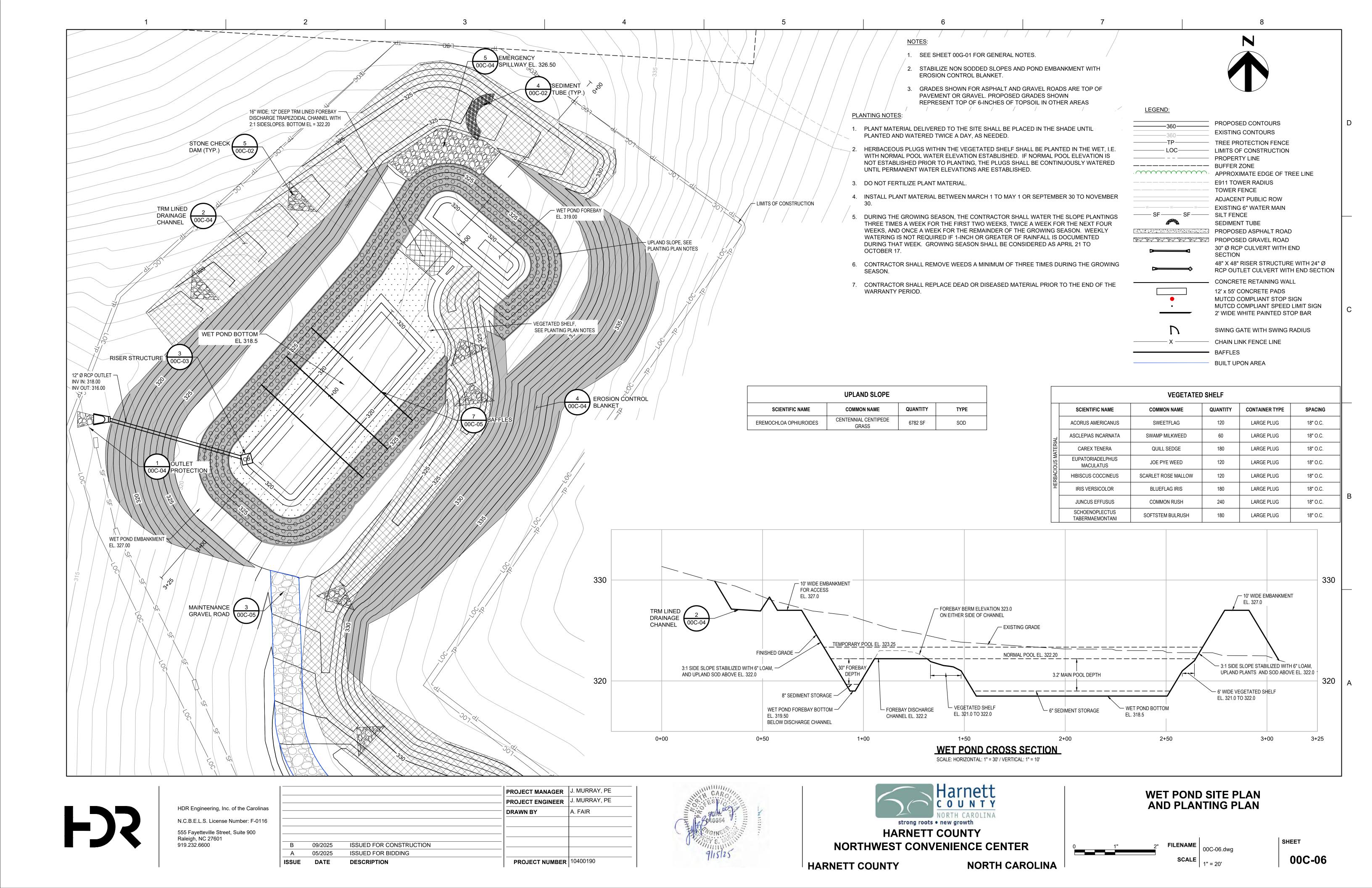


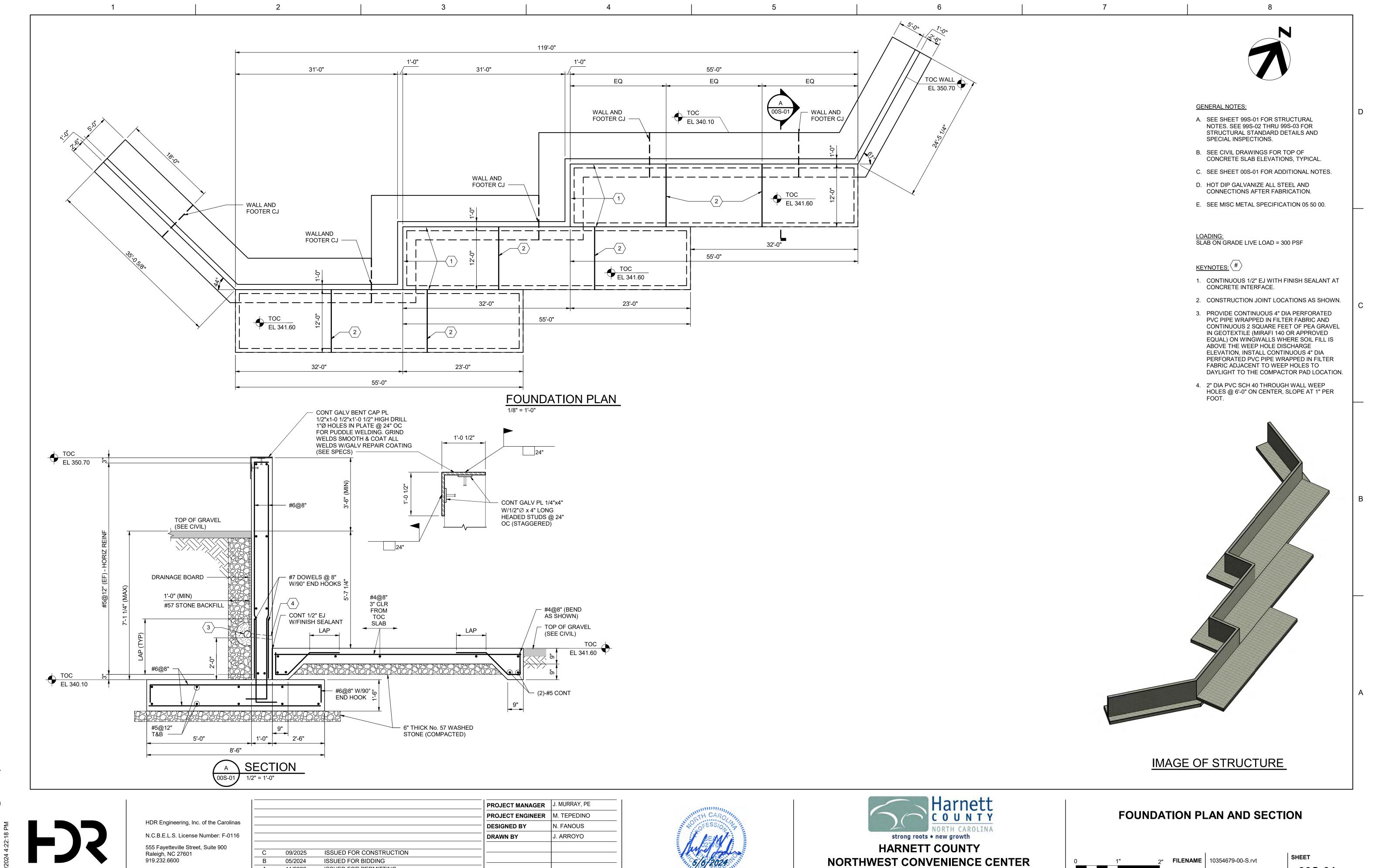
HARNETT COUNTY NORTHWEST CONVENIENCE CENTER HARNETT COUNTY

NORTH CAROLINA

FILENAME 00C-05.dwg SCALE AS SHOWN

SHEET 00C-05





00S-01

SCALE As indicated

NORTH CAROLINA

HARNETT COUNTY

C:\rvt\2020\10354679-00-S Jordan.ArroyoNavarro.

ISSUED FOR PERMITTING

PROJECT NUMBER 10354679

11/2022

STRUCTURAL GENERAL NOTES:

G1. SCOPE

THE NOTES ON THIS SHEET AND ALL THE STANDARD STRUCTURAL DETAILS ARE GENERAL AND APPLY TO THE ENTIRE PROJECT WHETHER SPECIFICALLY CALLED OUT OR NOT, UNLESS OTHERWISE SPECIFIED.

G2. APPLICABLE SPECIFICATIONS AND CODES

- . NORTH CAROLINA BUILDING CODE, 2018 EDITION, INCLUDING LOCAL JURISDICTION AMENDMENTS
- 2. IBC 2015 INTERNATIONAL BUILDING CODE WITH NORTH CAROLINA AMENDMENTS
- 3. ASCE 7-10 MINIMUM DESIGN LOADS
- 4. ACI 318-14 STRUCTURAL CONCRETE ACI 530-13 STRUCTURAL MASONRY
- 6. AISC STEEL CONSTRUCTION MANUAL 14th EDITION, AISC 360-10

G3. DESIGN CRITERIA

- 1. MINIMUM VERTICAL LIVE LOADS: SEE INDIVIDUAL PLANS. A. UNIFORM LIVE LOAD INCLUDES ALLOWANCE FOR:
 - * UNIFORM SNOW LOAD.
 - * UNIFORM PIPING LOAD (ONLY FOR PIPES SMALLER THAN 12" DIA).

- WIND LOADS: A. BASIC WIND SPEED: 116 MPH
- B. WIND EXPOSURE: C
- C. OPEN STRUCTURES D. RISK CATEGORY: II

SEISMIC:

- A. RISK CATEGORY: II
- B. SEISMIC IMPORTANCE FACTOR (IE): 1.0
- C. SPECTRAL RESPONSE ACCELERATIONS: SS=0.176, S1=0.084
- D. SITE CLASS: D E. SPECTRAL RESPONSE COEFF: SDS=0.188, SD1=0.134
- F. SEISMIC DESIGN CATEGORY: C
- BASIC SEISMIC-FORCE-RESISTING SYSTEM ORDINARY REINFORCED CONCRETE SHEAR WALLS
 - RESPONSE MODIFICATION FACTOR: R=4 SYSTEM OVERSTRENGTH FACTOR: $\Omega = 2.5$ DEFLECTION AMPLIFICATION FACTOR: Cd=4

4. SNOW LOAD:

- A. FLAT ROOF SNOW (PF): 15 PSF
- B. SNOW EXPOSURE FACTOR (CE): 1.0
- C. SNOW IMPORTANCE FACTOR (IS): 1.0 D. THERMAL FACTOR (CT): 1.0
- . GROUND SNOW (PG) = 15 PSF
- 5. FUTURE UNLESS SPECIFICALLY NOTED, THERE ARE NO PROVISIONS MADE FOR FUTURE FLOOR, ROOF, OR OTHER LOADS.

G4. <u>SITEWORK/EXCAVATION</u>

- 1. IF OPEN CUT EXCAVATIONS ARE PERFORMED, THEY SHALL BE SLOPED NO STEEPER THAN 1V:2H. IF DOING THIS BRINGS THE TOP OF THE EXCAVATION SLOPE WITHIN 5-FEET OF AN ADJACENT STRUCTURE OR UTILITY SUPPORTED ON SHALLOW FOUNDATIONS, THEN AN EXCAVATION SUPPORT SYSTEM WILL BE REQUIRED TO SAFEGUARD THE ADJACENT STRUCTURE.
- 2. FOR EXCAVATION REQUIREMENTS SEE SPECIFICATIONS 31 23 00 AND GEOTECHNICAL REPORT BY HDR ENGINEERING INC. FOR NORTHWEST CONVENIENCE CENTER PROJECT No. 10354679, DATED JANUARY 19, 2022.
- 3. FOUNDATIONS HAVE BEEN DESIGNED FOR A MAXIMUM ALLOWABLE BEARING PRESSURE OF 2,500 PSF BY HDR ENGINEERING INC. DATED JANUARY 19, 2022.
- 4. THE CONTRACTOR SHALL PROPERLY DEWATER THE SITE AS NEEDED SO THAT ALL CONCRETE CAN BE PLACED IN DRY SOIL CONDITIONS. THE DEWATERING PROGRAM SHALL BE AS DICTATED BY THE GEOTECHNICAL REPORT AS MENTIONED HEREIN.
- 5. DEWATERING WELL POINTS, SUMPS, WELLS, ETC. SHALL ONLY BE PLACED INSIDE THE

G5. SAFETY
SAFETY AND STRUCTURE STABILITY DURING CONSTRUCTION ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. STRUCTURES HAVE BEEN DESIGNED TO RESIST THE DESIGN LIVE LOADS ONLY AS A COMPLETED STRUCTURE.

G6. STANDARD DETAILS

THE STANDARD DETAILS DEPICT TYPICAL DETAILING TO BE USED ON THIS PROJECT. IF CONDITIONS ARE NOT EXPLICITLY SHOWN ON THE DRAWINGS THEY SHALL BE MADE SIMILAR TO THE STANDARD DETAILS. OBTAIN ENGINEER APPROVAL IN WRITING FOR SIMILAR CONDITIONS PRIOR TO CONSTRUCTION.

IF THERE ARE CONFLICTS BETWEEN CONTRACT DRAWINGS AND SPECIFICATIONS, THE MORE STRINGENT INTERPRETATION SHALL CONTROL.

CONCRETE

- C1. DESIGN PROPERTIES: f'c = 4,000 PSI (UNO) Fy = 60,000 PSI
- C2. CONCRETE COVER:

UNLESS OTHERWISE NOTED, PROVIDE CONCRETE COVER FOR REINFORCING AS FOLLOWS: CONCRETE DEPOSITED AGAINST EARTH: 3"

UNDER WATERSTOPS (WALL TO SLAB): ALL OTHER: SEE DRAWINGS FOR EXCEPTIONS.

- C3. SEE SPECIFICATIONS FOR REINFORCING PLACEMENT REQUIREMENTS.
- C4. PROVIDE 3/4" CHAMFERS AT ALL EXPOSED EDGES AND 1/2" CHAMFERS AT JOINTS AS SHOWN. NOT ALL CHAMFERS MAY BE SHOWN ON DRAWINGS.
- C5. FIELD ADJUST REINFORCING AT OPENINGS AND EMBEDDED ITEMS AS SPECIFIED OR AS REQUIRED BY STANDARD DETAILS.
- C6. ANCHOR BOLTS NOT SPECIFIED BY ENGINEER SHALL BE DESIGNED BY CONTRACTOR IN ACCORDANCE WITH APPLICABLE PROJECT CODE REQUIREMENTS. COORDINATE LOCATION, SIZE AND EMBEDMENT PRIOR TO CASTING CONCRETE.
- C7. ABSOLUTELY NO WELDING OF REINFORCING BARS OR TORCHING TO BEND REINFORCING BARS SHALL BE ALLOWED WITHOUT WRITTEN SPECIFIC APPROVAL FROM THE STRUCTURAL ENGINEER.

SPECIAL INSPECTIONS

- SP01. SPECIAL INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH CHAPTER 17 OF THE 2018 NORTH CAROLINA BUILDING CODE (IBC) BY A SPECIAL INSPECTOR HIRED BY THE OWNER TO PERFORM THE SPECIAL INSPECTIONS LISTED BELOW. THE SPECIAL INSPECTOR SHALL BE QUALIFIED BY AN APPROVED AGENCY ACCORDING TO THE COUNTY'S BUILDING OFFICIAL TO PERFORM THE SPECIAL INSPECTIONS FOR WHICH THEY WILL BE UNDERTAKING. THE CONTRACTOR SHALL COORDINATE WITH AND NOTIFY THE SPECIAL INSPECTOR OF ALL TESTS. THE SPECIAL INSPECTOR SHALL BE RESPONSIBLE TO VERIFY THAT THE ITEMS DETAIL IN THE CONSTRUCTION DOCUMENTS WERE BUILT ACCORDINGLY AND SHALL PREPARE, SIGN, AND FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL AND THE ARCHITECT FOR ALL TIME SPENT AT THE SITE. THE INSPECTOR SHALL BRING DISCREPANCIES TO THE IMMEDIATE ATTENTION OF THE GENERAL CONTRACTOR FOR CORRECTION. IF THE DISCREPANCIES ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND TO THE ENGINEER PRIOR TO THE COMPLETION OF THAT PHASE OF THE WORK. THESE SPECIAL INSPECTIONS ARE IN ADDITION TO THE OTHER INSPECTIONS LISTED IN THESE STRUCTURAL NOTES OR PROJECT SPECIFICATIONS.
- THE FOLLOWING IS A LIST OF INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH CHAPTER 17 OF
- THE 2018 NORTH CAROLINA BUILDING CODE. EXCAVATION AND PROOF ROLLING
- STRUCTURAL FILL PLACEMENT AND COMPACTION
- BACK FILLING
- REINFORCING STEEL FOR CONCRETE STRUCTURES ANCHOR ROD, BOLT PLACEMENT
- CONCRETE CONSTRUCTION
- WELDING EXPANSION ANCHORS AND ADHESIVE BOLTS/ DOWELS/ RODS/ INSTALLATION

DEFERRED SUBMITTALS

- DS01. DEFERRED SUBMITTALS ARE THOSE PORTIONS OF THE DESIGN WHICH ARE NOT SUBMITTED AT THE TIME OF PERMIT APPLICATION AND WHICH ARE TO BE SUBMITTED TO THE PERMITTING AGENCY FOR ACCEPTANCE PRIOR TO INSTALLATION OF THAT PORTION OF THE WORK.
- DS02. THE FOLLOWING IS A LIST OF DEFERRED SUBMITTALS PER IBC SECTION 107.3.4.1 THAT ARE EXPECTED TO CONTAIN STRUCTURAL CALCULATIONS OF SAFETY RELATED SYSTEM INFORMATION FOR REVIEW TO MEET BUILDING PERMITTING REQUIREMENTS FOR DESIGNED SYSTEMS. PRIOR TO INSTALLATION OF THE INDICATED STRUCTURAL ELEMENT, EQUIPMENT, DISTRIBUTION SYSTEM, OR COMPONENT OR ITS ANCHORAGE THE CONTRACTOR SHALL SUBMIT THE REQUIRED ENGINEER CERTIFICATION SUPPORTING DATA AND DRAWINGS FOR REVIEW AND ACCEPTANCE BY THE ENGINEER, ADDITIONALLY, ACCEPTANCE INDICATED ON THE ENGINEER'S COMMENT FORM, ALONG WITH THE COMPLETED FINAL SUBMITTAL SHALL THEN BE FILED BY THE CONTRACTOR AND ACKNOWLEDGED AS ACCEPTED BY THE PERMITTING AGENCY PRIOR TO INSTALLATION OF THESE ITEMS.

DEFERRED SUBMITTALS LIST:

SPECIFICATION SECTIONS ITEM MISC. METAL FABRICATIONS

ANY OTHER EQUIPMENT OF COMPONENT IN WHICH A TECHNICAL SPECIFICATION REQUIRES SUBMITTAL OF EQUIPMENT OF ANCHORAGE SYSTEM CALCULATIONS



HDR Engineering, Inc. of the Carolinas

N.C.B.E.L.S. License Number: F-0116

555 Fayetteville Street, Suite 900 Raleigh, NC 27601 919.232.6600

ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	10354679
Α	11/2022	ISSUED FOR PERMITTING		
В	05/2024	ISSUED FOR BIDDING		
С	09/2025	ISSUED FOR CONSTRUCTION		
				J. ARROTO
			DRAWN BY	J. ARROYO
			DESIGNED BY	N. FANOUS
			PROJECT ENGINEER	M. TEPEDINO
			PROJECT MANAGER	J. MURRAY, PE



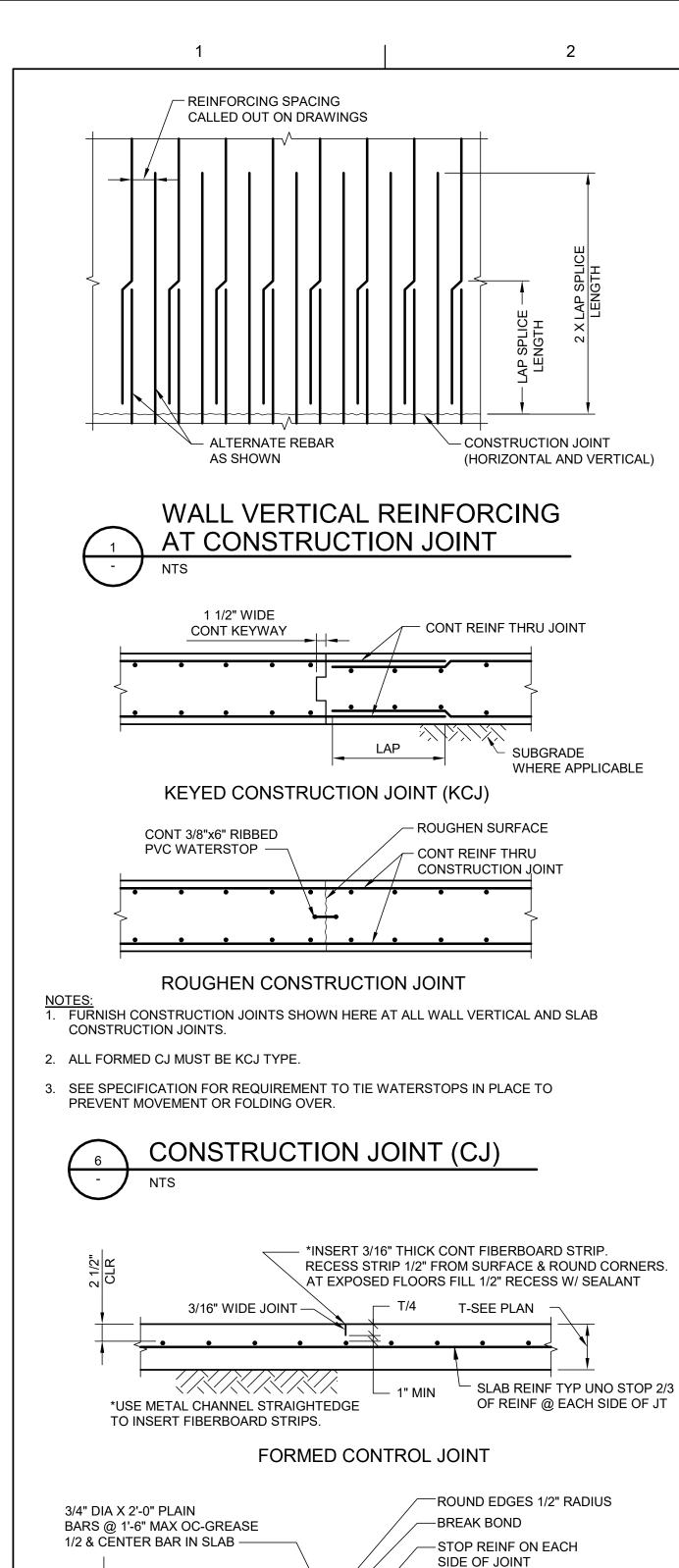


HARNETT COUNTY

HARNETT COUNTY NORTHWEST CONVENIENCE CENTER

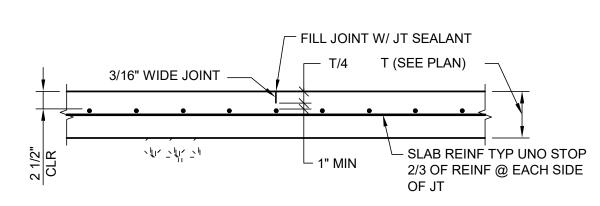
NORTH CAROLINA

GENERAL AND MATERIAL NOTES



2" CLR

TYP



CONCRETE JOINT

2 1/4"

3"

3 3/4"

4 1/2"

5 1/4"

6"

9 1/2"

10 3/4"

12"

4"

4 1/2"

5"

6"

7"

8"

10 1/2"

11 1/2"

1'-1"

REINFORCING HOOK SCHEDULE

COVER *

BAR SIZE

GRADE 60

#3

#5

#7

10"

1'-0"

1'-2"

1'-4"

1'-7"

1'-10"

#11 2'-0"

HOOK LENGTH

90° STD HOOK

11 3/4"

1'-1 1/4"

1'-2 3/4"

* COMPLYING WITH MINIMUM COVER REQUIREMENTS OF

ACI 318, 12.5.3. OTHERWISE Ldh MUST BE RE-CALCULATED.

HOOK WIDTH

180° STD HOOK

f'c=4000 psi OR GREATER

Ldh *

6"

7"

9"

10"

12"

14"

15"

17"

19"

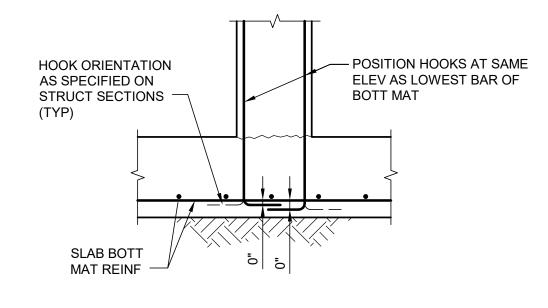


NOTES:

1. ANY ONE OF THE DETAILS ABOVE MAY BE USED AT LOCATIONS INDICATED ON DRAWINGS AS "SJ," AT CONTRACTOR'S OPTION.

2. ONLY FOR USE ON NON-PILE SUPPORTED SLABS.

DOWELLED CONSTRUCTION JOINT SLAB-ON-GRADE JOINT (SJ)



WALL DOWEL HOOK LOCATION

LAP SPLICE AND EMDEDMENT LENGTHS f'c

=4.0 ksi fy = 60 ksi

14"

19"

24"

29"

46"

60"

76"

120"

#6

#8

#9

#10

#11

BAR DIAMETER.

OPENINGS.

. MURRAY, PE

M. TEPEDINO

N. FANOUS

ARROYO

PROJECT NUMBER 10354679

BARS SPACED | BARS SPACED GREATER THAN | LESS THAN OR

EQUAL TO 4"

14"

19"

30"

43"

74"

96"

122"

155"

OTHERWISE. EMBEDMENT LENGTH EQUALS THE LAP SPLICE LENGTH UNLESS OTHERWISE NOTED.

2. BAR SPACING AT LAP SPLICE IS THE MINIMUM CLEAR DISTANCE BETWEEN LAPPED BARS PLUS ONE

3. ALL SPLICES TO BE CONTACT SPLICES AND WIRED TOGETHER UNLESS OTHERWISE APPROVED BY

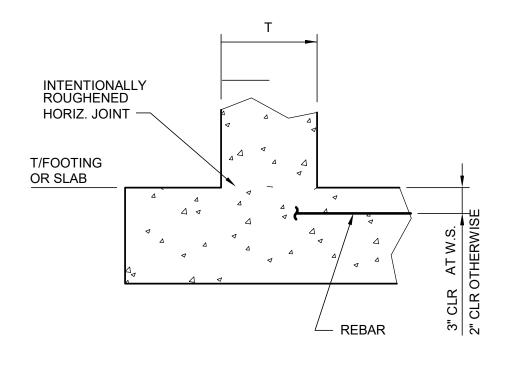
4. REQUIREMENTS FOR SPACINGS 4 INCHES OR LESS SHALL NOT APPLY TO "ADD" BARS AROUND

REINFORCING LAP AND

EMBEDMENT SCHEDULE

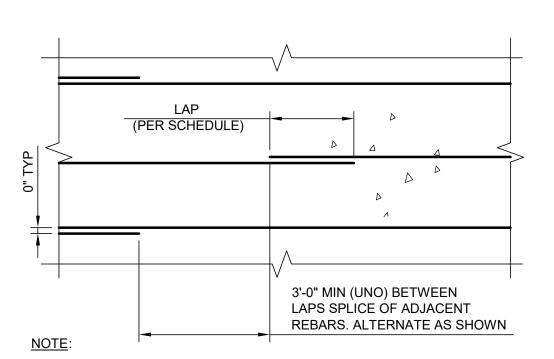
NOTES:

1. PROVIDE MINIMUM LAP SPLICE LENGTHS AND EMBEDMENTS PER TABLE UNLESS NOTED



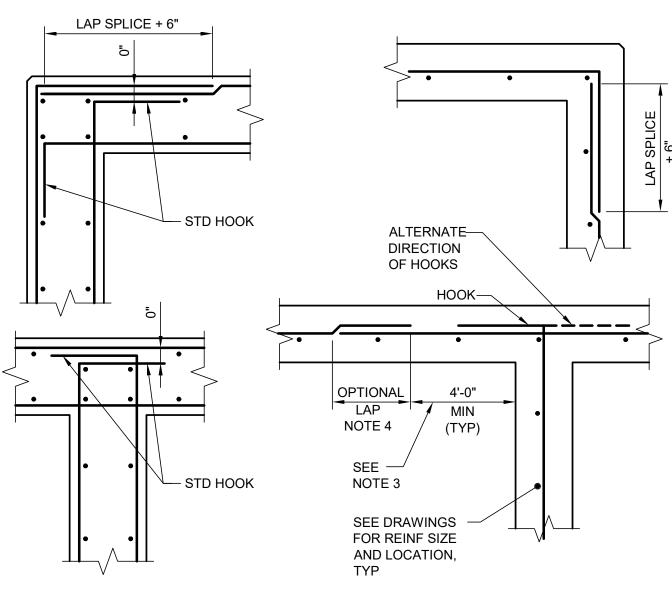
WALL/SLAB

CONSTRUCTION JOINT (CJ)



1. APPLIES TO SLABS AND WALLS (BOTH HORIZONTAL AND VERTICAL)

REINFORCING SPLICE WHEN NOT AT CJ



NOTES:

1. ALL HOOKS SHALL BE STD 90 DEGREE HOOKS.

2. SEE DRAWINGS FOR ADDITIONAL HORIZONTAL BARS. STAGGER BETWEEN TYPICAL REINF SPACING, EXTEND TO 1/5 OF DISTANCE TO NEAREST ADJACENT WALL IN EACH DIRECTION, UNO.

3. OPTIONAL LAP LOCATION APPLIES TO BOTH DOUBLE AND SINGLE LAYER CONDITIONS TYP.

4. BARS MAY BE ONE PIECE CONTINUOUS, THUS TWO PIECE REBAR NOT REQUIRED WITH LAP.

TYPICAL WALL REINFORCEMENT AT **CORNERS & INTERSECTIONS**

PROJECT MANAGER PROJECT ENGINEER HDR Engineering, Inc. of the Carolinas **DESIGNED BY** N.C.B.E.L.S. License Number: F-0116 **DRAWN BY**

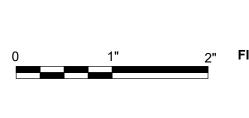
DATE





HARNETT COUNTY NORTHWEST CONVENIENCE CENTER

NORTH CAROLINA



FILENAME | 10354679-00-S.rvt

SCALE | NOT TO SCALE

STRUCTURAL STANDARD DETAILS 1

SHEET **99S-02**

ISSUED FOR CONSTRUCTION 09/2025 ISSUED FOR BIDDING 05/2024 ISSUED FOR PERMITTING

DESCRIPTION

HARNETT COUNTY

555 Fayetteville Street, Suite 900 Raleigh, NC 27601 919.232.6600 11/2022

Key for Minimum Qualifications of Inspection Agents:

designation shall appear below the Agency Number on the Schedule.

Concrete Field Testing Technician - Grade 1

Laboratory Testing Technician - Grade 1&2

American Society of Non-Destructive Testing (ASNT) Certification

ASNT Non-Destructive Testing Technician – Level II or III.

Structural Masonry Special Inspector

Structural Steel and Welding Special Inspector

Spray-Applied Fireproofing Special Inspector

National Institute for Certification in Engineering Technologies (NICET) Concrete Technician - Levels I, II, III & IV

Prestressed Concrete Special Inspector Reinforced Concrete Special Inspector

Soils Technician - Levels I, II, III & IV

NICET-GET Geotechnical Engineering Technician - Levels I, II, III & IV

CASE Form 101 • Statement of Special Inspections • ©CASE 2004

Concrete Construction Inspector

Strength Testing Technician

Engineering examination

American Concrete Institute (ACI) Certification

American Welding Society (AWS) Certification

AWS/AISC-SSI Certified Structural Steel Inspector

International Code Council (ICC) Certification

Exterior Design Institute (EDI) Certification

EDI-EIFS EIFS Third Party Inspector

AWS-CWI Certified Welding Inspector

PE/GE

ACI-CFTT

ICC-SMSI

ICC-SWSI

ICC-SFSI

ICC-PCSI

Qualifications of Inspectors and Testing Technicians

The qualifications of all personnel performing Special Inspection and testing activities are subject to the

approval of the Building Official. The credentials of all Inspectors and testing technicians shall be provided if

When the Registered Design Professional in Responsible Charge deems it appropriate that the individual

performing a stipulated test or inspection have a specific certification or license as indicated below, such

Structural Engineer – a licensed SE or PE specializing in the design of building structures

Geotechnical Engineer – a licensed PE specializing in soil mechanics and foundations

Engineer-In-Training – a graduate engineer who has passed the Fundamentals of

D

Statement of Special Inspections

Project: HARNETT COUNTY NORTHWEST

Location: OAKRIDGE RIVER ROAD AND REVELS ROAD INTERSECTION, NC

Owner: HARNETT COUNTY

Soils and Foundations

2. Controlled Structural Fill

Deep Foundations

Load Testing

Design Professional in Responsible Charge: Michael Tepedino, PE #027764

This Statement of Special Inspections is submitted as a condition for permit issuance in accordance with the Special Inspection and Structural Testing requirements of the Building Code. It includes a schedule of Special Inspection services applicable to this project as well as the name of the Special Inspection Coordinator and the identity of other approved agencies to be retained for conducting these inspections and tests. This Statement of Special Inspections encompass the following disciplines:

Mechanical/Electrical/Plumbing Architectural Other:

The Special Inspection Coordinator shall keep records of all inspections and shall furnish inspection reports to the Building Official and the Registered Design Professional in Responsible Charge. Discovered discrepancies shall be brought to the immediate attention of the Contractor for correction. If such discrepancies are not corrected, the discrepancies shall be brought to the attention of the Building Official and the Registered Design Professional in Responsible Charge. The Special Inspection program does not relieve the Contractor of his or her responsibilities.

Interim reports shall be submitted to the Building Official and the Registered Design Professional in Responsible Charge.

A Final Report of Special Inspections documenting completion of all required Special Inspections, testing and correction of any discrepancies noted in the inspections shall be submitted prior to issuance of a Certificate of Use and Occupancy.

Job site safety and means and methods of construction are solely the responsibility of the Contractor.

Interim Report Frequency: 14 Days or
per attached schedule. Prepared by:

Design Professional Seal

Page

istency with geotechnical report.

ubgrade prior to placement of controlled fill

ests (ASTM D1557) of each source of fill material.

Verify extent and slope of fill placement.

PE/GE

nspect removal of unsuitable material and preparation of

erform sieve tests (ASTM D422 & D1140) and modified Proctor

nspect placement, lift thickness and compaction of controlled fill. est density of each lift of fill by nuclear methods (ASTM D2922)

Owner's Authorization: Building Official's Acceptance:

CASE Form 101 • Statement of Special Inspections • ©CASE 2004

Item	Agency # (Qualif.)	Scope
1. Mix Design	Agency 4 ACI-CCI ICC-RCSI	Review concrete batch tickets and verify compliance with approved mix design. Verify that water added at the site does not exceed that allowed by the mix design.
2. Material Certification	Agency 4	Verify material certifications conform to specification requirements.
3. Reinforcement Installation	Agency 3 or 4 ACI-CCI ICC-RCSI	Inspect size, spacing, cover, positioning and grade of reinforcing steel. Verify that reinforcing bars are free of form oil or other deleterious materials. Inspect bar laps and mechanical splices. Verify that bars are adequately tied and supported on chairs or bolsters
Post-Installed Anchors	Agency 3 ICC-PCSI	Inspect size, spacing and installation. Inspect per IBC section 1705.1.1 and ACI 318: 17.8.2.4.
5. Welding of Reinforcing	N/A	N/A
6. Anchor Rods (Continuous)	Agency 3 or 4	Inspect size, positioning and embedment of anchor rods. Inspect concrete placement and consolidation around anchors. Verify that concrete is properly consolidated.
7. Concrete Placement (Continuous)	Agency 3 or 4 ACI-CCI ICC-RCSI	Inspect placement of concrete. Verify that concrete conveyance and depositing avoids segregation or contamination. Verify that concrete is properly consolidated.
Sampling and Testing of Concrete	Agency 4 ACI-CFTT ACI-STT	Test concrete compressive strength (ASTM C31 & C39), slump (ASTM C143), air-content (ASTM C231 or C173) and temperature (ASTM C1064).
Curing and Protection	Agency 3 or 4 ACI-CCI ICC-RCSI	Inspect curing, cold weather protection and hot weather protection procedures.
10. Batching Plant	Agency 4	Verify submitted batch plant certification conforms to specification and ACI requirements.
Formwork Installation Shoring and Reshoring (Periodic):	Agency 3	Confirm adequacy; verify conformance with approved submittals

CASE Form 101 • Statement of Special Inspections • ©CASE 2004

Quality Assurance Plan

Seismic Design Category

Quality Assurance Plan Required (Y/N)

Quality Assurance for Seismic Resistance

1. Ordinary Reinforced Concrete Shear Walls

Quality Assurance for Wind Requirements

1. Ordinary Reinforced Concrete Shear Walls

Basic Wind Speed (3 second gust)

Statement of Responsibility

must submit a Statement of Responsibility.

Quality Assurance Plan Required (Y/N)

Wind Exposure Category

Description of seismic force resisting system and designated seismic systems:

Description of wind force resisting system and designated wind resisting components:

Each contractor responsible for the construction or fabrication of a system or component designated above

CASE Form 101 • Statement of Special Inspections • ©CASE 2004

116 mph

Page

This Statement of Special Inspections / Quality Assurance Plan includes the following building systems:

Soils and Foundations Spray Fire Resistant Material Cast-in-Place Concrete Wood Construction

Schedule of Inspection and Testing Agencies

Precast Concrete Exterior Insulation and Finish System Masonry Structural Steel Mechanical & Electrical Systems Architectural Systems ☐ Cold-Formed Steel Framing Special Cases

TBD Contact: TBD Contact:	
Contact:	
TBD	
Contact:	
TBD Contact:	
TBD Contact:	
HDR Engineering Inc. of the Carolinas Contact: Michael Tepedino, PE	440 South Church Street Suite 1000 Charlotte, NC 28202 Michael.Tepedino@hdrinc.com
	TBD Contact: HDR Engineering Inc. of the Carolinas

Note: The inspectors and testing agencies shall be engaged by the Owner or the Owner's Agent, and not by the Contractor or Subcontractor whose work is to be inspected or tested. Any conflict of interest must be disclosed to the Building Official, prior to commencing work.

CASE Form 101 • Statement of Special Inspections • ©CASE 2004

Cast-in-Place Concrete

Page of

	(Quaiii.)	
1. Mix Design	Agency 4 ACI-CCI ICC-RCSI	Review concrete batch tickets and verify compliance with approved mix design. Verify that water added at the site does not exceed that allowed by the mix design.
2. Material Certification	Agency 4	Verify material certifications conform to specification requirements.
Reinforcement Installation	Agency 3 or 4 ACI-CCI ICC-RCSI	Inspect size, spacing, cover, positioning and grade of reinforcing steel. Verify that reinforcing bars are free of form oil or other deleterious materials. Inspect bar laps and mechanical splices. Verify that bars are adequately tied and supported on chairs or bolsters
Post-Installed Anchors	Agency 3 ICC-PCSI	Inspect size, spacing and installation. Inspect per IBC section 1705.1.1 and ACI 318: 17.8.2.4.
Welding of Reinforcing	N/A	N/A
6. Anchor Rods (Continuous)	Agency 3 or 4	Inspect size, positioning and embedment of anchor rods. Inspect concrete placement and consolidation around anchors. Verify that concrete is properly consolidated.
7. Concrete Placement (Continuous)	Agency 3 or 4 ACI-CCI ICC-RCSI	Inspect placement of concrete. Verify that concrete conveyance and depositing avoids segregation or contamination. Verify that concrete is properly consolidated.
Sampling and Testing of Concrete	Agency 4 ACI-CFTT ACI-STT	Test concrete compressive strength (ASTM C31 & C39), slump (ASTM C143), air-content (ASTM C231 or C173) and temperature (ASTM C1064).
Curing and Protection	Agency 3 or 4 ACI-CCI ICC-RCSI	Inspect curing, cold weather protection and hot weather protection procedures.
10. Batching Plant	Agency 4	Verify submitted batch plant certification conforms to specification and ACI requirements.
10. Formwork Installation Shoring and Reshoring (Periodic):	Agency 3	Confirm adequacy; verify conformance with approved submittals

CASE Form 101 • Statement of Special Inspections • ©CASE 2004

PROJECT MANAGER J. MURRAY, PE PROJECT ENGINEER M. TEPEDINO **DESIGNED BY** N. FANOUS **DRAWN BY** ARROYO ISSUED FOR CONSTRUCTION ISSUED FOR BIDDING ISSUED FOR PERMITTING PROJECT NUMBER 10354679 DESCRIPTION





HARNETT COUNTY NORTHWEST CONVENIENCE CENTER STRUCTURAL STANDARD DETAILS 2

FILENAME 10354679-00-S.rvt SCALE NOT TO SCALE

SHEET **99S-03**

HDR Engineering, Inc. of the Carolinas N.C.B.E.L.S. License Number: F-0116 555 Fayetteville Street, Suite 900 Raleigh, NC 27601

919.232.6600

09/2025

05/2024

11/2022

DATE



HDR Engineering, Inc. of the Carolinas

N.C.B.E.L.S. License Number: F-0116

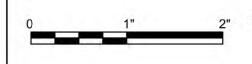
555 Fayetteville Street, Suite 900 Raleigh, NC 27601 919.232.6600

ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	10354679	
Α	11/2022	ISSUED FOR PERMITTING		le la man	
В	05/2024	ISSUED FOR BIDDING			
С	09/2025	ISSUED FOR CONSTRUCTION			_
			DRAWN BY	J. SPACHER	_
			DESIGNED BY	L. KOSAKOWSKI	
			PROJECT ENGINEER	E. CHINNIS, PE	
			PROJECT MANAGER	J. MURRAY, PE	







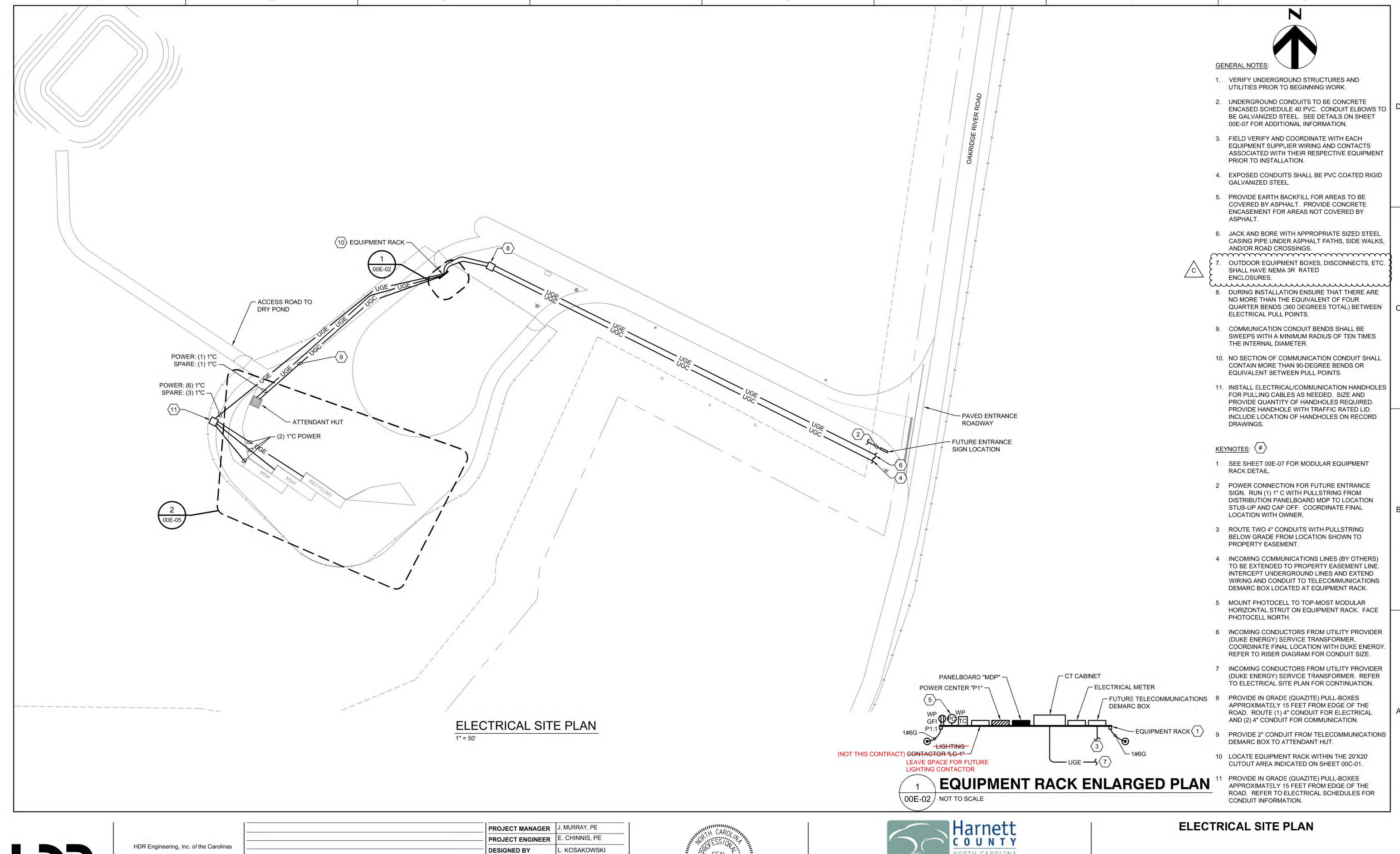


00E-01.dwg FILENAME

SCALE

NONE

SHEET 00E-01





N.C.B.E.L.S. License Number: F-0116 555 Fayetteville Street, Suite 900 Raleigh, NC 27601 919.232.6600

PROJECT ENGINEER E. CH DESIGNED BY L. KO	ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	10354679
PROJECT ENGINEER E. CH	Α	11/2022	ISSUED FOR PERMITTING		10
PROJECT ENGINEER E. CH	В	05/2024	ISSUED FOR BIDDING		
PROJECT ENGINEER E. CH DESIGNED BY L. KO DRAWN BY J. SP.	С	07/2025	REVISED PER ADDENDUM NO. 1		
PROJECT ENGINEER E. CH DESIGNED BY L. KO	D	09/2025	ISSUED FOR CONSTRUCTION		
PROJECT ENGINEER E. CH				DRAWN BY	J. SPACHER
				DESIGNED BY	L. KOSAKOWSK
PROJECT MANAGER J. MU				PROJECT ENGINEER	E. CHINNIS, PE
To a company of the first terms				PROJECT MANAGER	J. MURRAY, PE

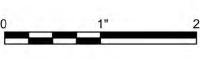




HARNETT COUNTY NORTHWEST CONVENIENCE CENTER

HARNETT COUNTY

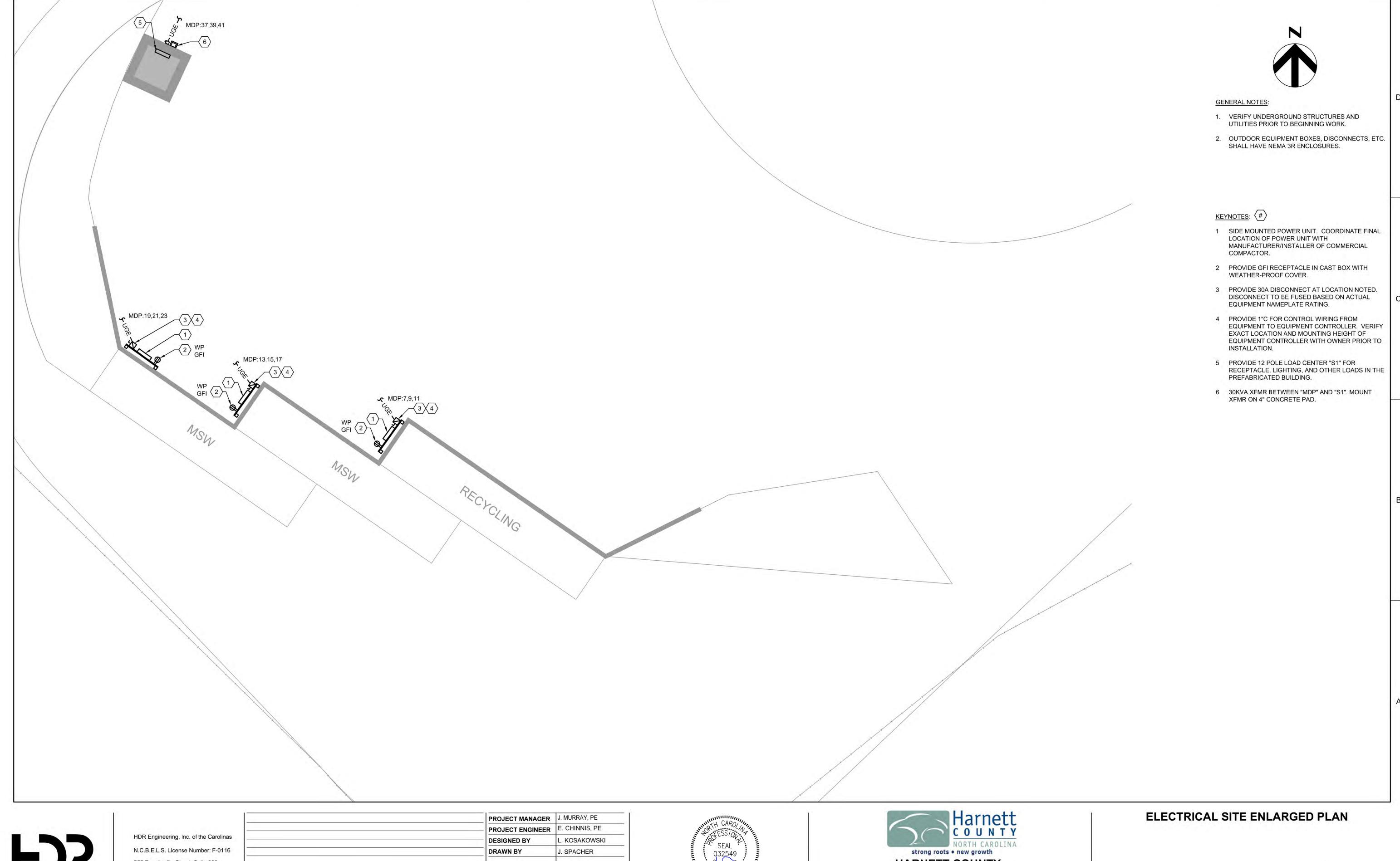




00E-02.dwg FILENAME SCALE 1" = 50'

SHEET

00E-02



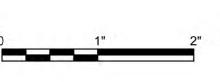
555 Fayetteville Street, Suite 900 Raleigh, NC 27601 919.232.6600

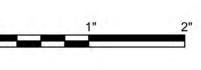
ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	10354679
Α	11/2022	ISSUED FOR PERMITTING		la la como
В	05/2024	ISSUED FOR BIDDING		
С	09/2025	ISSUED FOR CONSTRUCTION		
			DRAWN BY	J. SPACHER
				STATE OF THE STATE
			DESIGNED BY	L. KOSAKOWSKI
			PROJECT ENGINEER	E. CHINNIS, PE
			PROJECT MANAGER	J. MURRAY, PE





HARNETT COUNTY





NORTH CAROLINA

FILENAME 00E-05.dwg SCALE 1" = 10'

SHEET 00E-05

SWITCHBOARD NO: **BUS RATING (A):** ENCLOSURE: NEMA 3R VOLTAGE (L-L): 277 MAIN OC DEVICE (A/PHASE): 400 MOUNTING: SURFACE **VOLTAGE (L-N):** INTERRUPTING RATING (KA): 14 LOCATION: EQUIPMENT RACK PHASE / WIRE: 3 / 4+G NO SERVICE ENTRANCE LABEL: YES **BUILDING:** 200% NEUTRAL: CONNECTED LOAD (VA) OCP OCP CONNECTED LOAD (VA) WIRING WIRING PHASE NEUT. GRND. COND. NO. DESCRIPTION LITS REC MECH MISC AMPS P AMPS P LTS REC MECH MISC DESCRIPTION NO. PHASE NEUT. GRND. COND. 10 10 12 1" 1 FUTURE SITE LIGHTING 20 | 1 | A | 20 | 1 SPARE 4 5 FUTURE ENTRANCE SIGN B 20 1 12 12 12 C 20 1 6 SPARE 3,878 A 20 1 SPARE 8 10 10 1" 9 RECYCLING 20 3 B 20 1 3,878 SPARE 11 COMPACTOR 3,878 C 20 1 SPARE 12 13 3,878 A 20 1 SPARE 14 10 10 10 1" 15 MSW 20 3 B 20 1 16 3,878 SPARE C 20 1 17 18 3,878 SPARE 19 3,878 SPARE 20 A 20 1 10 10 10 1" 21 MSW 20 3 B 20 1 3,878 SPARE 23 3,878 C 20 1 SPARE 24 25 26 A 20 1 SPARE 27 SPARE 100 3 B 20 1 SPARE 28 29 C 20 1 30 SPARE 31 SPARE SPARE 32 20 | 1 | A | 20 | 1 | 34 33 SPARE 20 | 1 | B | 20 | 1 | SPARE 35 SPARE 36 20 | 1 | C | 20 | 1 | SPARE 37 A 0 360 0 0 39 PANEL S1 (LOCATED AT 45 3 B 25 3 0 180 0 0 PANEL P1 40 41 ATTENDANT HUT) 0 180 0 0 42 L1 SPD L1 30 3 B N/A 3 L2 INTEGRALLY MTD. L2 L3 BUS CONNECTED L3 NOTES: LOAD SUMMARY NOTES: LTS REC MECH MISC SPARE TOTAL PHASE BALANCE * REFER TO ONE-LINE DIAGRAM 0.9 0.9 34.9 0.0 13 ** MISC DEMAND INCLUDES 25% CONNECTED LOAD (KVA) 36.7 480 LINE-TO-LINE VOLTS PHASE A (KVA) ----DEMAND FACTOR ** 1.25 NEC 1.00 ---44 CONNECTED AMPS PHASE B (KVA) 12 OF LARGEST MOTOR KVA 20% ---DEMAND LOAD (KVA) 1.1 0.9 34.9 2.9 7.3 47.2 57 DESIGN AMPS PHASE C (KVA) 12

					POWER CENTER NO: VOLTAGE (L-L): VOLTAGE (L-N): PHASE / WIRE: 200% NEUTRAL:	P1 208 120 3 / 4+G NO		BUS RATMAIN OCUMENTERRU	DEVICE	E (A/PHA RATING	(KA):):	10				ENCLOS MOUNTI LOCATION BUILDIN	NG: ON:	NEMA 3R SURFACE EQUIPMENT RACK					
	WIR	INC		СКТ				D LOAD (OCF			OCP			NNECTE	D LOAD (СКТ		14/11	RING	
PHASE	NEUT.			13300 3000	DESCRIPTION	LTS	REC	MECH	,	AMPS		ŀ	AMPS	-	LTS	REC	MECH		DESCRIPTION				GRND.	COND
12	12	12	3/4"		RECEPTACLES	1	180	MEGH	111100	20	1		20	1	Lio	180	III.EGII	IIIIOO	COMPACTOR RECEPTS	2	10	10	12	1"
				3	SPARE					20	1	В	20	1		180			COMPACTOR RECEPTS	4	10	10	12	1"
				5	SPARE					20	1	С	20	1		180			COMPACTOR RECEPTS	6	10	10	12	1"
				7	SPARE		7			20	1	Α	20	1					SPARE	8				
1				9	SPARE					20	1	В	30	1					SPARE	10				
				11	SPARE					20	1	С	30	1					SPARE	12				
				13	SPARE					20	1	Α	30	1					SPARE	14				
				15	SPARE					20	1	В	30	1		1			SPARE	16				
				17	SPARE					20	1	С	20	1					SPARE	18				
				19	SPARE		J			20	1	Α	30	1				1 = 3	SPARE	20				
				21	SPARE					20	1	В	30	1					SPARE	22				
				23	SPARE		,= -1			20	1	С	20	1					SPARE	24				

					PANELBOARD NO:	S1																		
					VOLTAGE (L-L):	208		BUS RA	TING (A)			10	00				ENCLOS	URE:	NEMA 1					
					VOLTAGE (L-N):	120		MAIN O	DEVICE	(A/PHA	SE):	10	00 MCB				MOUNTI	NG:	SURFACE					
					PHASE / WIRE:	3 / 4+G		INTERRI	JPTING I	RATING	(KA):	10)				LOCATIO	ON:	CONVINIENCE CENTER					
					200% NEUTRAL:	NO		SERVICI	ENTRA	NCE LA	BEL:	NC	O				BUILDIN	G:	MODULAR BUILDING					
	WIR	RING		СКТ		COI	NNECTE	D LOAD (VA)	OCP			OCP		CON	NNECTE	D LOAD (VA)		СКТ		WIF	RING	
PHASE	NEUT.	GRND.	COND.	NO.	DESCRIPTION	LTS	REC	MECH	MISC	AMPS	Р	A	MPS	Р	LTS	REC	MECH	MISC	DESCRIPTION	NO.	PHASE	NEUT.	GRND.	COND
			9 9 17 5	1	SPARE					20	1 A	١ .	30	,			2,200		FAN HVAC UNIT	2	10	10	10	3/4"
12	12	12	3/4"	3	RECEPTACLES		180		16	20	1 E	3	30 /	-			2,200		TAN HVAC UNIT	4	10	10	10	3/4"
12	12	12	3/4"	5	INTERIOR LIGHTING	100				20	1 0		20				2,200		LICATEDUNIT	6	10	10	10	3/4"
				7	SPARE					20	1 A		30				2,200		HEATER UNIT	8	10	10	10	3/4"
				9	SPARE					20	1 E	3 :	30	1					SPARE	10				
				44	SPARE					20	1 0		30	4					SPARE	12				

						LOAD	SUMMARY					NOTES:
		LTS	REC	MECH	MISC	SPARE	TOTAL			PHASE BALANCE		* REFER TO ONE-LINE DIAGRAM
CONNE	ECTED LOAD (KVA)	0.1	0.2	8.8	0.0		9.1	208	LINE-TO-LINE VOLTS	PHASE A (KVA)	4	** MISC DEMAND INCLUDES 25%
DEMAN	ND FACTOR **	1.25	1.25	1.00		20%		25	CONNECTED AMPS	PHASE B (KVA)	2	OF LARGEST MOTOR KVA
DESIGN	N LOAD (KVA)	0.1	0.2	8.8	0.0	1.8	10.9	30	DESIGN AMPS	PHASE C (KVA)	2	

	LUMINAIRE SCHEDULE									
			TETUS!						MOU	INTING
WG ID	MANUFACTURER AND LUMINAIRE TYPE	DESCRIPTION	WATTS (MAX)	VOLTAGE	CCT (K)	CRI (MIN)	LUMENS DN	LUMENSUP	TYPE	HEIGHT
	HOLOPHANE LEDG2 P2 40K MVOLT STD L2 OR APPROVED EQUAL	LED AREA LUMINAIRE WITH RUGGED DIE-CAST ALUMINUM HOUSING AND ADJUSTABLE ARM MOUNT. TYPE II OPTICS WITH FULL LIGHT CUTOFF AND BUY AMERICA COMPLIANCE. LISTED FOR WET LOCATIONS.	80W	MVOLT	4000K	80	12,271	0	POLE	35'-0" AFG
	HOLOPHANE LEDG2 P2 40K MVOLT STD L4 OR APPROVED EQUAL	LED AREA LUMINAIRE WITH RUGGED DIE-CAST ALUMINUM HOUSING AND ADJUSTABLE ARM MOUNT. TYPE IV OPTICS WITH FULL LIGHT CUTOFF AND BUY AMERICA COMPLIANCE. LISTED FOR WET LOCATIONS.	80W	MVOLT	4000K	80	12,362	0	POLE	35'-0" AFG

LOAD SUMMARY

0.0 0.7 0.0 0.0 0.1 0.9 2 DESIGN AMPS

0.7

208 LINE-TO-LINE VOLTS

2 CONNECTED AMPS

LTS REC MECH MISC SPARE TOTAL

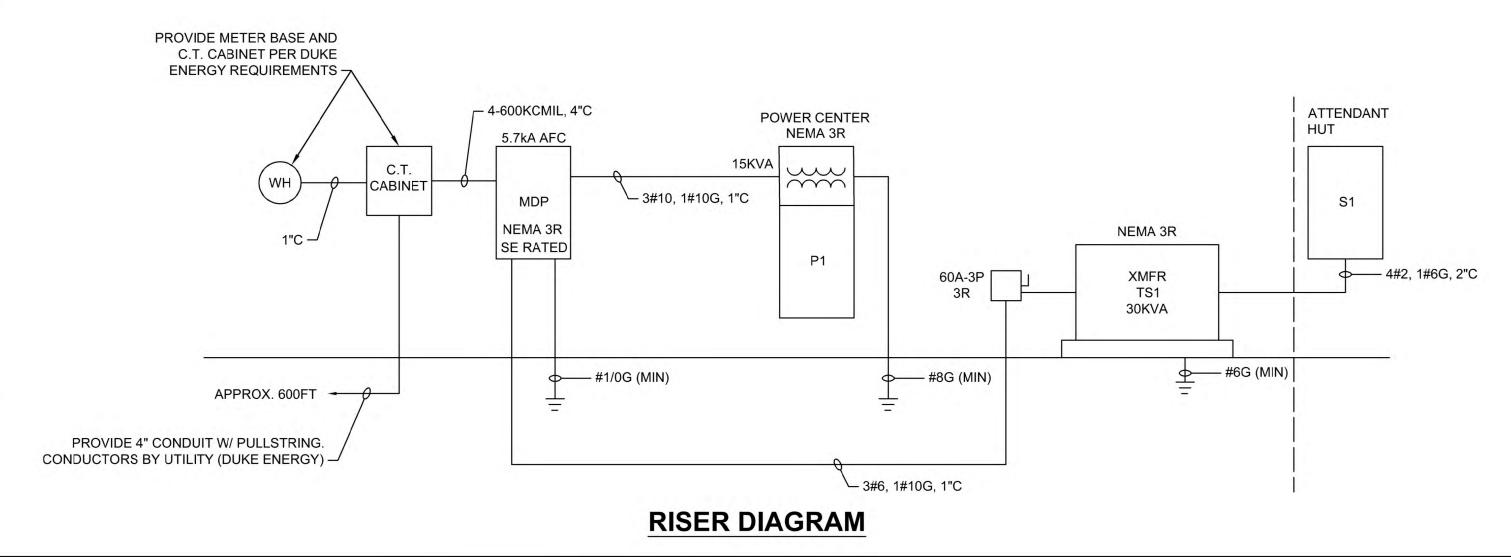
0.0 0.7 0.0 0.0 ---

1.25 | 1.25 | --- | 20%

CONNECTED LOAD (KVA)

DEMAND FACTOR **

DESIGN LOAD (KVA)



NORTH CAROLINA



NOTES:

HDR Engineering, Inc. of the Carolinas N.C.B.E.L.S. License Number: F-0116 555 Fayetteville Street, Suite 900 Raleigh, NC 27601 919.232.6600

ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	10354679
Α	11/2022	ISSUED FOR PERMITTING	3 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Maryan
В	05/2024	ISSUED FOR BIDDING		1/2
С	09/2025	ISSUED FOR CONSTRUCTION		
				J. JI AUTILIN
			DRAWN BY	J. SPACHER
			DESIGNED BY	L. KOSAKOWSKI
			PROJECT ENGINEER	E. CHINNIS, PE
			PROJECT MANAGER	J. MURRAY, PE



NOTES:



🗠 SUBSTITUTIONS APPROVED BY THE ENGINEER PRIOR TO BIDDING SHALL BE ACCEPTABLE BASED ON THE FACT THAT THEY ARE EQUAL TO THE LUMINAIRE SPECIFIED IN ALL CHARACTERISTICS.

NORTHWEST CONVENIENCE CENTER

HARNETT COUNTY

SCALE NONE

SHEET 00E-07.dwg 00E-06

ELECTRICAL SCHEDULES AND RISER DIAGRAM

NOTES:

* REFER TO ONE-LINE DIAGRAM

0 ** MISC DEMAND INCLUDES 25%

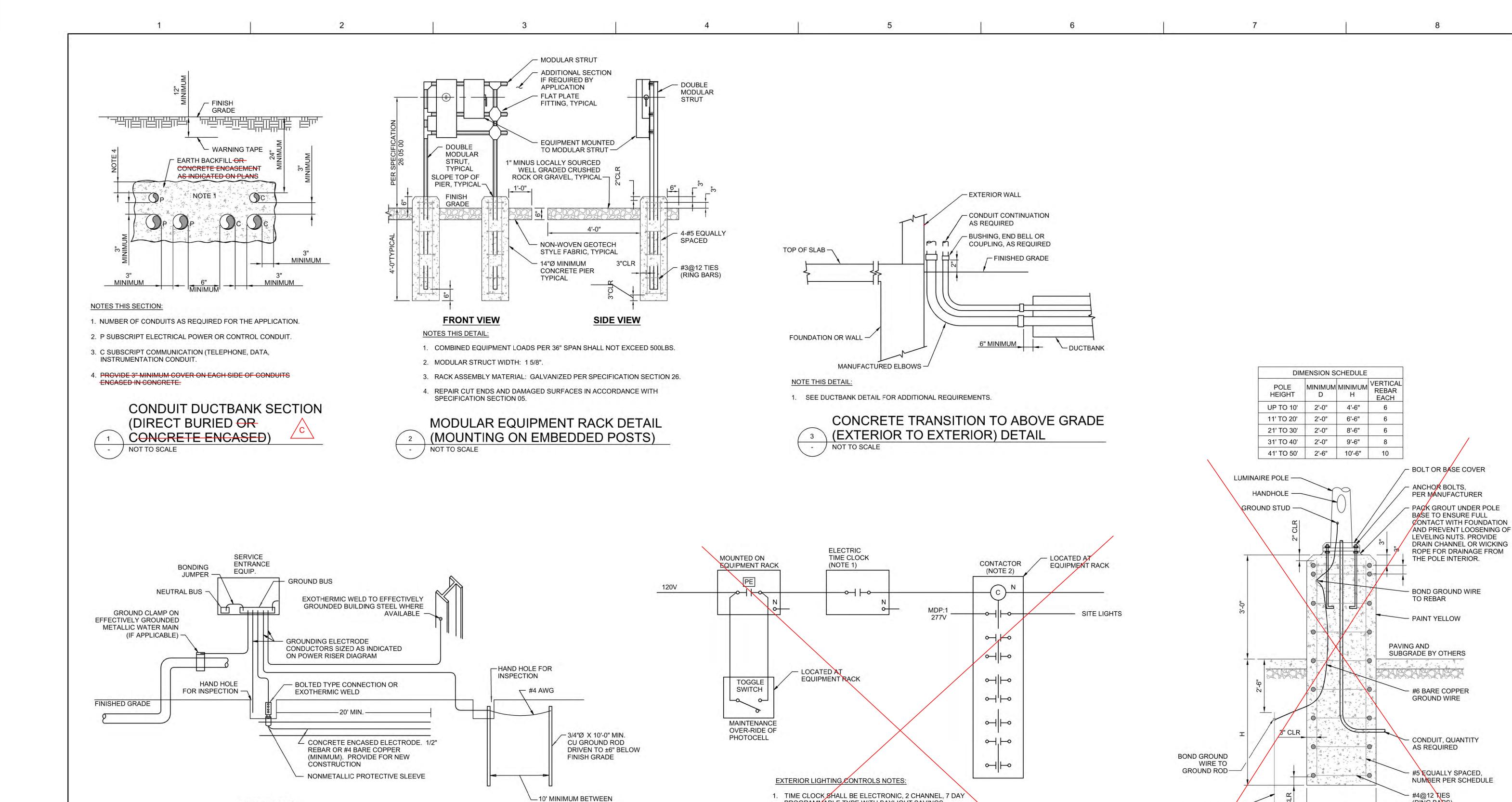
0 OF LARGEST MOTOR KVA

PHASE BALANCE

PHASE A (KVA)

PHASE B (KVA)

PHASE C (KVA)





HDR Engineering, Inc. of the Carolinas N.C.B.E.L.S. License Number: F-0116

555 Fayetteville Street, Suite 900

Raleigh, NC 27601

919.232.6600

NOTE THIS DETAIL:

BE REQUIRED OR AVAILABLE.

NOT TO SCALE

1. GROUNDING ELECTRODES SHALL BE PROVIDED IN ACCORDANCE WITH NEC SECTION 250. ALL GROUNDING ELECTRODE

SERVICE GROUND DETAIL

CONDUCTORS SIZED AS INDICATED ON POWER RISER DIAGRAM.

ALL METHODS OF CREATING THE GROUNDING SYSTEM MAY NOT

ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	10354679
Α	11/2022	ISSUED FOR PERMITTING		le le me u
В	05/2024	ISSUED FOR BIDDING		
С	09/2025	ISSUED FOR CONSTRUCTION		
			DRAWN BY	J. SPACHER
			DESIGNED BY	L. KOSAKOWSKI
			PROJECT ENGINEER	E. CHINNIS, PE
			PROJECT MANAGER	J. MURRAY, PE

EACH GROUND ROD



ENCLOSURE.

NOT TO SCALE

PROGRAMMABLE TYPE WITH DAYLIGHT SAVINGS,

ELECTRONICALLY HELD CONTACTOR IN NEMA 3R

BACKUP AND NEMA 3R ENCLOSURE.

PERMANENT SCHEDULE RETENTION, 4 DAYS REAL TIME

(NOT THIS CONTRACT)

EXTERIOR LIGHTING CONTROLS DETAIL



HARNETT COUNTY NORTHWEST CONVENIENCE CENTER HARNETT COUNTY NORTH CAROLINA

0 1" 2" FILENAME

NOT TO SCALE

GROUND ROD

ELECTRICAL DETAILS

00E-08.dwg

NOT TO SCALE

(NOT THIS CONTRACT)

LIGHTPOLE FOUNDATION AND

GROUNDING DETAIL

00E-07

(RING BARS)