ADDENDUM NO. 1 TO CONTRACT DOCUMENTS

Date:	October 22, 2026
Project:	Westside Elevated Storage Tank
Owner:	Greenville Utilities Commission
Engineer:	Hazen and Sawyer

To All Bidders:

Contractors submitting Proposals for the above-named Project shall take note of the following changes, additions, deletions, clarifications, etc., in the Contract Documents, which shall become part of and have precedence over anything contrarily shown or described in the Contract Documents, and all such shall be taken into consideration and be included in the Contractor's Bid Proposal.

All other general items, conditions, drawings, and specifications shall remain the same.
Please acknowledge receipt of Addendum No. 1 with the Bid Form.

Refer to the Attached Sheets.

The return receipt requested with the communication will be deemed evidence that the bidder has received this Addendum and has followed the instructions outlined herein. Please sign, date, clearly print company name, and email this sheet back to Hazen and Sawyer at GUCWestsideTank@hazenandsawyer.com.

Company Name

Acknowledgement of Receipt

Date



2026.10.22 15:56:37-04'00'

James B. Hennessy, P.E.
HAZEN AND SAWYER

Westside Elevated Storage Tank

Addendum No.1

GENERAL:

A mandatory in person pre-bid meeting was held on October 14, 2026 at 2 pm at 1721 Waterway Drive, Greenville, NC. The following provides a brief summary.

Pre-bid Meeting Summary

Subject: Westside Elevated Storage Tank – Pre Bid Meeting

Note – Bidding Documents Govern, this meeting is for Reference Only

Owner: Greenville Utilities Commission

Engineer: Hazen and Sawyer

Project Manager: James Hennessy, PE

JHennessy@hazenandsawyer.com

- A general description of the project was presented in the advertisements for bids and noteworthy components were discussed.
- Construction of the 1.5 MG Westside Elevated Storage Tank, an adjacent two-room chemical building for dosing liquid ammonium sulfate (LAS) and chlorine, and approximately 1,030 ft of 2" sewer force main. The project also includes tank foundation and site work, yard piping, and other exterior and interior work as required in the Contract Documents for a complete construction and startup of the project.
- Schedule
    - Bid Opening: October 28, 2026 at 2pm, 1721 Waterway Drive, Greenville, NC
    - Construction Duration:
    - 450 Days Substantial Completion
    - 480 Days Final Completion
- An optional site visit at 4401 Dickinson Avenue Extension, Greenville, NC was conducted following the pre-bid meeting.

Changes to the Contract Documents:

1. Insert the following subcontractor scope of work and fee schedule associated with Allowance #3: 3rd Party Testing by Terracon Consultants, LLC after the 00 73 00 Supplementary Conditions:

    a. Earthwork
        i. Observe proof rolling of prepared subgrades
        ii. Observe fill/backfill soil placement
        iii. Sample and test soil/stone for compaction
    b. Deep foundations
        i. Monitor test pile installation, sampling grout sufficient to provide compressive strength on the contractor's schedule prior to pile load testing
        ii. Observe pile load testing for adherence to the approved standards
        iii. Monitor pile installation, recording placement times, depths, and grout placement
        iv. Sample pile grout twice per day (AM and PM) and test compressive strength on a predetermined schedule
    c. Concrete
        i. Observation of formwork and reinforcement prior to concrete placement
        ii. Observation of the concrete mix provided, placement and curing techniques utilized
        iii. Sampling fresh mixed concrete, performing field tests for slump, temperature, entrained air content, unit weight and casting compressive strength samples for testing at a predetermined age
        iv. Observation of post-installed anchors
    d. Masonry
        i. Observation of masonry construction, including the use of approved materials, mixing/batching of mortar and age of mortar boards, mortar bed placement, block placement and alignment (trueness and plumbness), horizontal and vertical reinforcement
        ii. Observation of grout delivery/batching for approved mix design, as provided properties of slump and temperature, casting compressive strength samples and subsequent testing at predetermined ages
        iii. Sampling and testing of masonry grout during construction of Section A/S100 and A-D/S201
    e. Asphalt
        i. Observation of subgrade preparations, including the subgrade soil texture, witnessing and reporting of proofrolling, the placement and compaction of subbase material
        ii. Observe the delivery and provided materials during paving, including provided mix design, temperature, placement thickness and compactive effort. Perform compaction testing of the asphalt mats

iii. If required, perform asphalt coring and test the extracted cores to determine the total asphalt thickness and compaction provided.

f. Project Administration and Management
    i. To provide timely and accurate service, a team of administrative and project management professionals is utilized. This team trains, directs and schedules staff as needed to provide services on a reliable basis with the supplies and calibrated test equipment necessary to perform the work.
g. Welding
    i. Provide Computerized Radiography weld testing in accordance with the project specifications and AWWA D100-21 Section 11 standards.
    ii. Due to the nature of radiography and inherent risks associated with radiation exposure, all safety related requests made by the radiography crew must be strictly adhered to. This will include a temporary restricted area around the work site during the duration of radiographic testing. Strict adherence to the safety protocols is mandatory
h. Coatings
    i. Provide NACE Level III inspector for an estimated period of 40 days
    ii. Coatings inspection will include the observation of surface substrate to be free of oil, grease, mill scale and deleterious material (dirt)
    iii. Observe surface preparation is in accordance with the project specifications and manufacturer's recommendations
    iv. Observe the application of the approved coating, confirming the application techniques, application temperature, number, thickness and completeness of coatings
i. Reporting
    i. Reports of samples, test results and observations will be provided on a daily basis.
    ii. Summaries of services can be provided upon request. These often occur at conclusion of a construction phase or prior to demobilization of a subcontractor.
    iii. Online access to reports will be available.

Terracon Consultants, LLC
Compensation

Construction Materials Testing Services
Winterville, North Carolina
2026 UNIT RATE FEE SCHEDULE

No.	Description	Rate
PERSONNEL/FIELD SERVICES		
1.	Engineering Technician, per hour	$85.00
2.	Coring Crew, per hour (Concrete/Asphalt)	$190.00
3.	Certified Welding Inspector, per hour	$180.00
4.	Project Manager, per hour	$165.00
5.	Project Engineer, per hour	$200.00
6.	Principal Engineer or Geologist, per hour	$225.00
7.	Project Support, per hour	$85.00
8.	Nuclear Density Gauge, per day	$60.00
9.	Direct Expenses	125%
10.	Mileage, per mile (see note below)	$1.20
11.	Admin Fee (20% of Staff)	5%
LABORATORY SERVICES		
1.	Percent Fines, each	$100.00
2.	Grain Size Test (Wash 200 Sieve), each	$100.00
3.	Grain Size Test (With Hydrometer), each	$125.00
4.	Coarse Aggregate Gradation	$200.00
5.	Natural Moisture Content Test, each	$15.00
6.	Atterberg Limits Test, each	$100.00
7.	Standard Proctor Compaction Test, each	$200.00
8.	Modified Proctor Compaction Test, each	$250.00
9.	ABC Stone Proctor Compaction Test, each	$250.00
10.	CBR Testing, per point	$250.00
11.	pH of Soils (by meter) (ASTM D4972)	$50.00
12.	Specific Gravity and Absorption, Fine Aggregate (ASTM C128)	$100.00
13.	Specific Gravity and Absorption, Coarse Aggregate (ASTM C127)	$150.00
14.	Concrete:	
	a) Compressive Strength Testing of Concrete Cylinders, each	$20.00
	b) Flexural Strength Testing of Concrete Beams	$75.00
	c) Compressive Strength Testing of 2" x 2" Mortar Cubes, each	$15.00
	d) Compressive Strength Testing of Grout Prisms and Cylinders, each	$25.00
	e) Compressive Strength Testing of Concrete Cores, each	$50.00
	f) Compressive Strength Testing of Concrete Cylinders made by others	$25.00
15.	Asphalt:	
	a) Thickness and Specific Gravity Testing, per sample	$75.00

Expedited laboratory services (results required in less than 5 days) are available for an additional $50 per sample.

NOTE: Overtime, at a rate of 1.5 times the standard rate, is charged for technician services for time at night and on Saturdays, Sundays, and holidays. Overtime is not applicable to engineering rates. Project administration rates are for report review, project management, meetings, etc. The mileage charge includes vehicle mileage between our Greenville office and the job site. **There is no mileage charge for projects located in Greenville or Winterville.** All field services will be invoiced portal to portal.

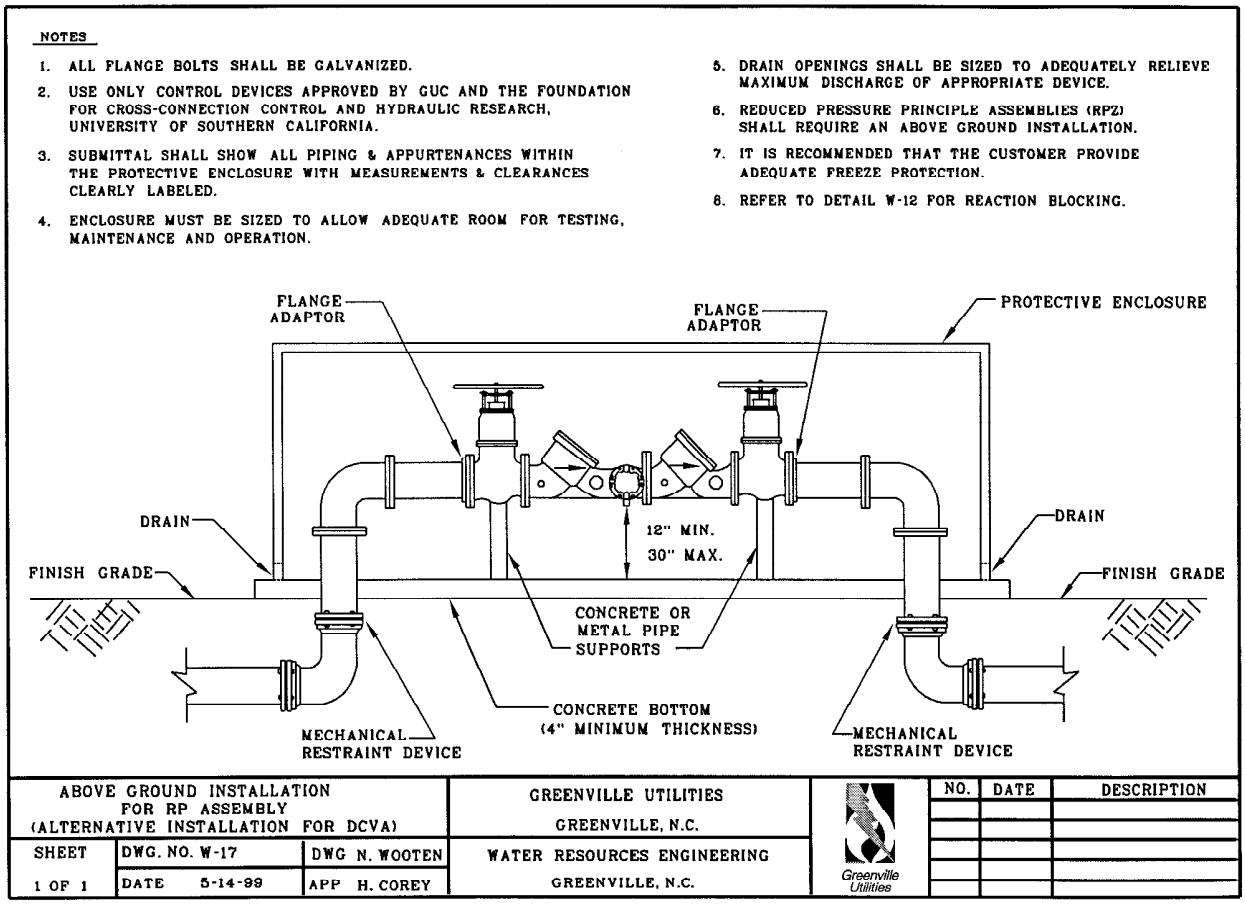
2. Section 00 73 00 Article 13 should be modified to include the following:
    a. Add the following new paragraph immediately after Paragraph 13.02 D

        E. Subcontractor Allowance: Allowances in the Bid Form shall be used for payment to the subcontractor associated with the allowance item. Compensation for work performed by the Bidder associated with allowance items shall be included in the lump sum base bid price.

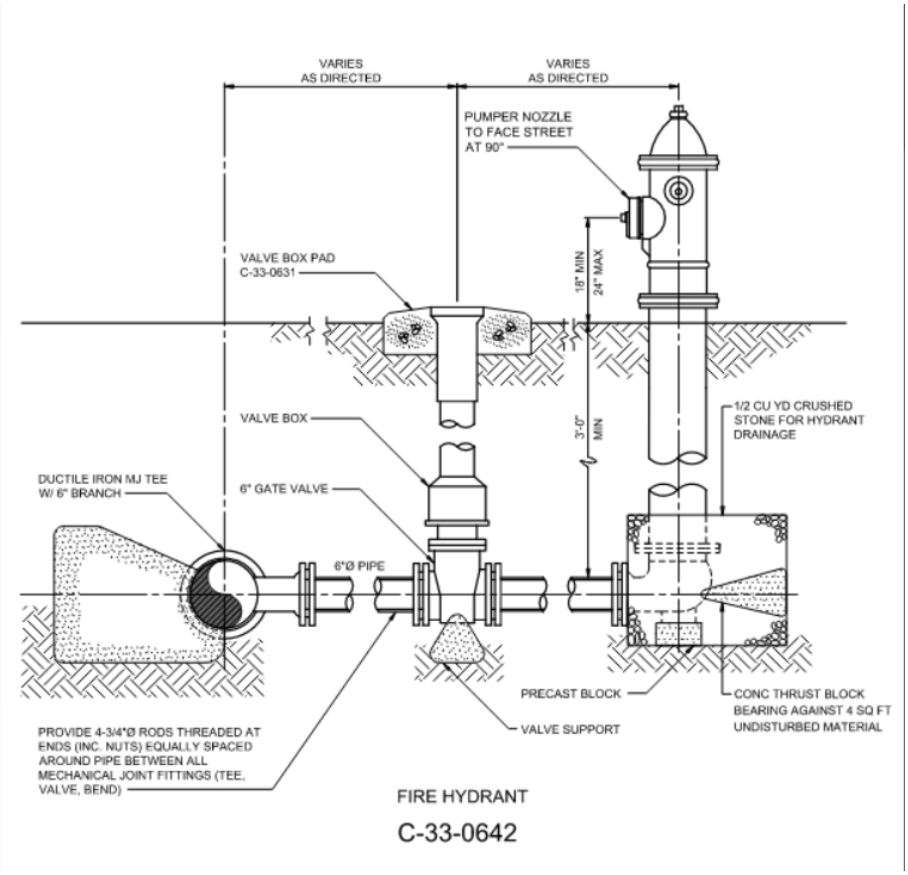
3. In section 00 52 00 (AGREEMENT), 4.02.A, replace 450 calendar days with 550 calendar days (associated with substantial completion), and replace 480 calendar days with 580 calendar days (associated with final payment).

4. Replace Sheets C00, C01, C02, C02A, S201, and S202 with the attached revised sheets.

5. Replace P-21-0110 on C08 with attached RPDA Assembly.



6. Add C-33-0642 to sheet C10.



7. Contractor shall utilize a 20A, 1P spare breaker within LP-WEST for RPDA enclosure heater. Furnish and install 2#12, #12GND in a 1"C from LP-WEST to location of enclosure indicated on Drawing C02 using direct buried raceways outside of the storage tank.

8. Section 00 40 00 Article 6 shall be modified to remove “Composite Elevated Tank” from the AREA OF SPECIALIZATION list.

9. The permits listed below and attached shall be added to the bid documents as Appendix B.
    a. NCDOT Right of Way Encroachment Agreement
    b. NCDEQ Erosion and Sedimentation Control
    c. NCDEQ Public Water Supply Authorization to Construct

10. Delete Paragraph 1.2, E. from Section 09 97 00 and replace with the following: "The cost of containment, dust collection, and ventilation in accordance with SSPC Guide 6, Class 3A shall be included in the respective substrate preparation and coating work."

11. Add to M104 the following NOTE 18: THE 20" INL CENTERLINE ELEVATION RESULTS IN A MINIMUM DISTANCE BETWEEN PIPE CENTERLINE AND TANK FLOOR SLAB. ADJUSTING PIPE DEPTH TO DECREASE CENTERLINE ELEVATION IS ALLOWABLE.

12. Replace 12" TELECOM CONDUIT with 14" TELECOM CONDUIT on sheet M104.

13. Add the following at the end of 09 97 00, 1.2.I

    The bond value shall be equal to the total scheduled value for Division 09 work.

14. Add the following to the end of 01 51 00, 3.b

    Solar-powered security lighting will be considered if it meets the specified light intensity requirements.

15. Notes on sheet P103 shall be revised to:
    1. NATURAL GAS REGULATOR EQUAL TO "AMERICAN METER 1813C. 1 14" CONNECTION, MAX FLOW - 1400 SCFH, OUTLET PRESSURE 6-15 WG.
    2. NATURAL GAS PIPE DOWNSTREAM OF METER SIZED PER TABLE 402.4(1) OF NC FUEL GAS CODE. APPROX PIPE LENGTH = 20 FT, MAX CUBIC FEET PER HOUR REQUIRED EQUAL 1037, CAPACITY IN CUBIC FEET OF GAS PER HOUR = 2090, DELIVERY PIPE SIZE = 2", MIN DELIVERY PRESSURE EQUAL 9 IN WG, MAX DELIVERY PRESSURE EQUALS 12 IN WG.

    Natural gas piping schematic to be revised to reflect: 1 1/4" REGULATOR, 2" NATURAL GAS PIPING TO GENERATOR

16. Modify sheet E02 to include AIT-1405 in DB-4 and DB-5.

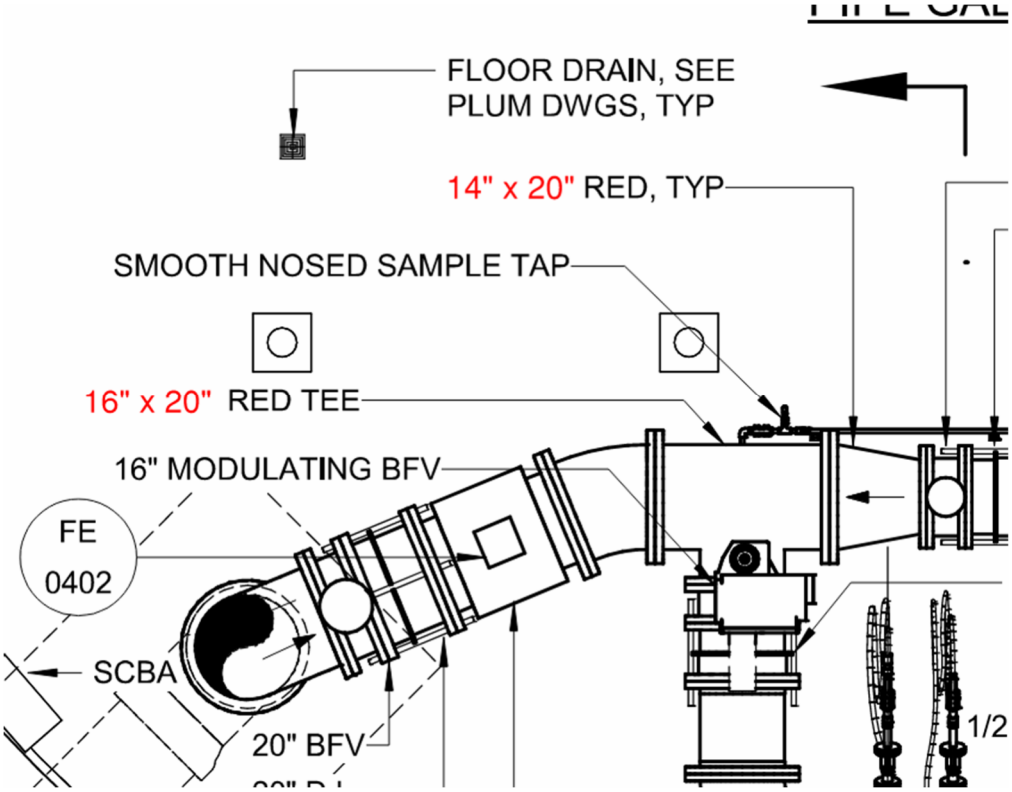
17. Add note 11 to Drawing E100: "Rectifier to be located on the interior of tank pedestal wall of the Water Quality room between man door and interior partition wall. Route 1-inch RMC conduit vertically up tank pedestal to bowl for output circuit. Input circuit shall be 2#12s, 1#12G in 3/4" RMC conduit from LP-WEST, circuit no. 38 (20A breaker). Output circuit wiring to be determined by cathodic protection system equipment designer and installed by Contractor. Reference Specification 13 47 13." Update Panel Schedule on Drawing E103 for circuit no. 38 to be Cathodic Protection System and 250 volt-amperes on A leg of panel.

18. On drawing A200, make the following modifications:

    In the first column Sprinklers change from No to Yes, NFPA 3 under Basic Building Data.

    In the Second Column under LIFE Safety System Requirements change Fire Alarm from NO to YES.

19. M101 shall be modified as shown below:



20. 40 06 20 shall be modified per the following:

    - Strike Water Treatment Plant from 40 06 20 Water Treatment Plant Piping Schedule.
    - Strike "above flow meter" from INL/OUT Pipe Description in 40 06 20.
    - Replace 16" Overflow and 18" x 16" Reducer (Weir) with 12" Overflow and 18" x 12" Reducer (Weir).

21. Sheet A101, change door schedule entry for material of door 100A from AL to STL.

22. Remove “mowing,” from 32 90 00, 3.06.A.

23. Delete Specification Section 33 16 11 paragraph 2.7.B.2.a and replace with the following Section 08 11 13 - Steel Doors and Frames

24. 43 23 25, 3.01.A Number of Trips to be changed from 1 to 2.

25. 46 41 42, 3.01.A Number of Trips to be changed from 1 to 2.

26. Drawing A201 add the following notes below Finish Schedule.

    1. ROOM FINISHES SHALL BE FINISHES REQUIRED WITHIN ROOM. SURFACES THAT DO NOT INDICATE A FINISH NEED TO BE CLEANED WITH NO ADDITIONAL FINISH.
    2. SEALER SHALL BE AS SPECIFIED IN SECTION 03 35 00 - CONCRETE FINISHES.
    3. CONTAINMENT LINER TO BE PROVIDED ON FLOOR SURFACES AND UP 8" ONTO WALL WITH A 1" DIA COVE AT THE INTERSECTION OF THE WALL AND FLOOR. CREATE COVE IN ACCORDANCE WITH COATING MANUFACTURER'S RECOMMENDATIONS.

    Drawing A201 Room Finish Schedule, change Floor Finish for Rooms 200 and 201 from Sealer to Containment Liner.

27. Drawing A104 Detail 3 and 4, remove the term wood laminate and replace with solid surface.

28. Delete "100PSF" from first sentence of Paragraph 06 51 00-2.02E and replace with "150PSF". Remove Section 06 51 00-2.03 in its entirety.

29. Refer to P02 ELECTRIC INSTANTANEOUS WATER HEATER:

    Tag shall be revised to WH-100-1.

    BFP-200-1 is intended to be installed indoors and drain to the exterior.

30. Revise 12'-0" dimension on Detail C-31-0490 to 24'-0". Revise 50'-0" dimension on Detail C-31-0490 to 60'-0". Revise 35'-0" MIN dimension on Detail C-31-0490 to 45'-0" MIN. Delete Paragraph 2.08, B. of Specification 31 25 00 and replace with "Temporary gravel construction entrances/exits shall be constructed with a minimum thickness as shown on the Contract Drawings and shall be a minimum of 60 feet in length and 24 feet in width. Geotextile fabric shall be used under stone as shown on the Contract Drawings."

31. Reference 33 05 39.23, 3.04, B. 4. Delete "at least 30 days after completion of backfill and".

32. Delete 2.2, F., 4. in Section 09 97 00 and replace with the following:
    a. Euclid

        Surface Prep: NACE No. 6/SSPC-SP-13 (mechanical methods only),
        ICRI-CSP-3 (light shotblast)
        1st Coat: Euco #512 VOX Epoxy Sealer (250 to 300 square feet per gallon)
        2nd Coat: Euco #512 VOX Epoxy Sealer (400 to 600 square feet per gallon)
        Provide silica sand for slip resistance (reference 2.02, F., 2.)
        TOTAL COATING SYSTEM: 700 TO 900 square feet per gallon or higher if required by manufacturer for proper slip resistant coverage.

b. Or approved equal.

33. Delete 10 11 00 from the bid documents.

34. Delete 10 50 00 from the bid documents.

35. Add the following note to M104:

    18. TOP OF TANK GEOMETRY SHOWN FOR ILLUSTRATIVE PURPOSES. MANUFACTURER SPECIFIC TANK DETAILS WILL BE REVIEWED AND MUST CONFORM TO THE FUNCTION AND INTENT SHOWN ON THE DRAWINGS.

36. Max Water Elevation on M104 Section A to be revised to 201.0’.

37. Delete "exterior" and replace with "interior" in Section 09 97 00, Paragraph 2.2, F., 1.

38. Revise NOTE 8 on M104 to:

    8. INSTALL CARBON-STEEL FIXED LADDER COATED WITH TANK ROOF COATING OR GALVANIZED STEEL LADDER IN ACCORDANCE WITH 05 51 33.

39. Add a 40A, 1P breaker to LP-WEST on Drawing E103 for Generator Shore Power. Conduit and wire shall be 2#8, #10GND in a 1"C from LP-WEST to Generator enclosure utilizing DB-2 and DB-3.

40. Remove 40 41 13-2.03.B

41. Remove 40 41 13-2.03.C

42. Change Power supply for CP-MXR-0001 from 230/1 to 208/3.

43. Delete 40 30 00, 2.01.E.3.

44. Replace 40 30 00, 2.01.E.4 with Panel equipped with 208VAC 20-Amp main breaker.

45. 32 90 00 2.01.C, replace Fescue (fungus free) with Bermuda (common)

46. 32 90 00 2.01.E replace 150#/acre Kentucky 31 Tall Fescue with 90#/acre Bermuda (common).

47. 32 90 00 3.08.B, SEEDING SCHEDULE shall be revised to reflect the following changes:
    a. Change P Planting Season to May 1-July 1
    b. Change P Seed to 90
    c. Change P Comments to Preferred planting seasons are May 1-July 1

Response to Bidder Questions:

1. Section 33 16 11, paragraphs 1.1.A and 1.1.D, state that the Contractor and Tank Manufacturer are synonymous and are the party from whom the Owner receives a Bid, which suggests the prime Bidder must be the tank manufacturer. However, Bid Form Article 6 lists "Composite Elevated Tank" as a subcontractor scope. Please confirm whether the prime Bidder must be a tank manufacturer, or whether the prime Bidder may be a general contractor that subcontracts the design, fabrication, and erection of the composite elevated tank to a qualified tank manufacturer, as contemplated by Bid Form Article 6.

   Response: See Changes to the Contract Documents above.

2. If a general contractor may serve as the prime Bidder, may the Bidder submit the composite tank subcontractor's qualifications with its Bid, and will those qualifications satisfy the experience requirements of Section 33 16 11, paragraph 1.1.C, and the Project Experience requirements of Section 00 45 13? Are there any specific format or content requirements for that submission?

   Response: See Changes to the Contract Documents above.

3. What building or construction permits will the Contractor need to obtain for this project? Will a Building Permit and/or Plan Review be required from the city or county? If so, whom do we contact to determine what is the cost? Are there any other licenses or fees that the Contractor must pay for? Will the cost of the Building Permit be waived since it is a municipal project?

   Response: Building Permit will be the responsibility of the Contractor through the City of Greenville.

4. How is this project being funded?

   Response: Greenville Utilities Commission is funding the project.

5. What is the budget for this project?

   Response: There is no budget available for distribution.

6. Is there any 3rd party inspection (I.e. TIC, KLM, AEC etc.) on engineering construction or painting? If so, who will it be and on what portion of work?

   Response: See Changes to the Contract Documents above.

7. With the complexity of the scope of work a construction schedule of 700 days will be required for final completion.

   Response: See Changes to the Contract Documents above.

8. Section 09 97 00 - 11.2 E - Requires a Class 1A containment. This would add substantial cost, if even possible for an elevated tank. If containment is required, we recommend a Class 3 system as the most cost-effective solution to prevent blast

material and paint from leaving site. Alternatively, if no containment is required we would plan to blast and paint at grade followed by hoisting the tank to reduce the risk of blast/paint materials leaving the site. (Section 09 97 00 - 11.2 E)

Response: See Changes to the Contract Documents above.

9. Drawing Number C00 - Water System Notes and Shutdown Plan - Note 5 requires a minimum of 4-feet cover for water mains except as noted on plans. AWWA D107 Figure 1 displays a minimum pipe cover of 3-feet. Please confirm if 3-feet cover can be used for all water mains. (C00, Water System Notes and Shutdown Plan, Note 5)

    Response: See Changes to the Contract Documents above.

10. Drawing M105 identifies the telecom conduit diameter as 14 inches, while Drawing M104 shows the telecom conduits as 12 inches in diameter. Please advise the required telecom conduit diameter.

    Response: See Changes to the Contract Documents above.

11. The current assumption is that the concrete surrounding the telecom conduit pipes will be cast-in-place. Please confirm if this assumption is acceptable.

    Response: Cast-in-place telecom vault is acceptable.

12. Section 33 16 11, 2.4.A requires a qualified supervisor directly employed by the manufacturer to be on site for the foundation, support structure, and steel tank construction. We utilize highly qualified subcontractors to construct the foundations of our tanks and would not typically have an additional supervisor on site for that scope. We would propose to nominate a supervisor from our foundation subcontract to represent us on site during the foundation construction.

    Response: There is no change to the Contract requirements.

13. Section 09 97 00, 1.2.I - Please confirm the required value of the maintenance bond. We often see 5% or 10% of the total contract value.

    Response: See Changes to the Contract Documents above.

14. Substantial Completion: The project specifications note a 450 day substantial completion. We would like to request this be extended by a minimum of 250 days to be able to complete all the required work. There is a substantial amount of additional scope beyond a standard CET tank associated with this project. Most of this work will not be able to be completed in parallel with other scopes due to sequence and safety concerns. One of the bigger factors is the steel delivery from the mills; we are currently getting 24-week (168 day) lead times from the mills for steel plate delivery to our shop once the tank is designed and approved.

    Response: See Changes to the Contract Documents above.

15. Project Estimate Budget: Is there an estimated budget for this project? If so, can you please provide it.

    Response: There is no budget available for distribution.

16. Building Permits: It is noted in the specifications that the Contractor will be responsible for all permits. Is there an estimated cost and lead time for all required permits? Can this cost be included as an allowance so that all parties are estimating the same value.

    Response: See Changes to the Contract Documents above regarding provided permits.

17. Interior 24-inch Pipe for Telecom: M104 identifies a 24-inch steel pipe for coax chase from the interior dry, through the dome roof and interior wet, terminating at the roof with a watertight coax box on top. Can this be removed? The tank manufacturer can make provisions to run future connection bracing and trays up to the roof via the access tube with adequate bracing throughout. The concern with the pipe coax chase is that once installed, the future telecom coax will only be able to be braced at the ends of the pipe - roughly a 50-foot vertical span without bracing/support. Typically this type of cable will not support its own hanging weight across this span.

    Response: There is no change to the Contract requirements.

18. Night Light System: Section 01 51 00, 3.b states the need for a night light circuit for security. Can this requirement be removed, or can this be a solar powered light system? Electrical requirements for construction of the tank will be powered via generators, and main power will not be brought to the site until after tank construction is complete due to safety concerns. This will eliminate the need to run a generator overnight causing excess noise and fuel consumption.

    Response: See Changes to the Contract Documents above.

19. Temporary Fence: Is a temporary security fence required? If so, will it need to encompass the entire LOD or just the entrance?

    Response: There is no change to the Contract requirements. Contractor shall provide security in accordance with 01 55 00 E.

20. Site Security: Noted in the specifications, Contractor is to employ a watchman to provide required security and prevent unauthorized entry. Can this requirement be eliminated if a temporary security fence is installed? Will this be required at all times the Contractor is not onsite?

    Response: There is no change to the Contract requirements. Contractor shall provide security in accordance with 01 55 00 E.

21. Field Engineer: Indicated in the specifications is the need for a full-time field engineer on site at all times. Can the site superintendent for each portion of the tank construction act as the field engineer, or will full-time site personnel be required?

    Response: Site superintendent may serve as the field engineer as long as they are qualified to serve in this role.

22. Generator Gas Sizing: P103 Note 2 sizes the gas service at 20.5 cubic feet per hour on a 3/4-inch line; an 80 kW natural gas generator typically needs about 1,000 cubic feet per hour at full load. Please confirm the design flow and pipe size.

    Response: See Changes to the Contract Documents above.

23. Generator Accessory Power: No circuit is scheduled for the generator block heater and battery charger. Please confirm requirement.

    Response: See Changes to the Contract Documents above.

24. AIT-1405 Power Conduit: P-0038 is not listed in the DB-4/DB-5 tables on E02. Please confirm requirement.

    Response: See Changes to the Contract Documents above. AIT-1405 is located in the Chemical Building.

25. Cathodic Protection: Section 13 47 13 refers to a rectifier circuit on the drawings, but none are shown. Please clarify.

    Response: See Changes to the Contract Documents above.

26. Fire Alarm Requirement: The code summaries on A100 and A200 list 'Fire Alarm: No' and 'Sprinklers: No', while E200 Note 9, FP200, and Section 28 46 20 require a system. Please confirm.

    Response: See Changes to the Contract Documents above.

27. Heat Trace Controls: Section 40 41 13, 2.03 lists three different control arrangements. Please confirm which applies.

    Response: Control requirements from Section 40 41 13-2.03-A apply for heat tracing controls. See Changes to the Contract Documents above.

28. Duct Bank Split: Please confirm a handhole is intended where DB-4 splits to DB-5 and DB-6.

    Response: A handhole is not required as it is anticipated that all raceways can be installed complete from source to load without exceeding 360 degrees worth of bends. However, Contractor may opt to install a handhole as a pull point if that is desired.

29. Force Main Separation from Existing Water Mains: C04 identifies offsets of 6.5 feet from the existing 24-inch water main and 2 feet from the existing 4-inch water main along the force main route. Please identify the governing separation and protective detail for these locations, including whether the shown alignment requires a revised route, special pipe material, or encasement.

    Response: No response.

30. Chemical Building Sprinkler Requirement: The A200 code summary indicates the chemical building is not sprinklered, while FP200 shows a wet sprinkler system and a 6-inch incoming fire protection main. Please establish the required sprinkler protection and issue coordinated code summary, fire service, and sprinkler drawings.

    Response: See Changes to the Contract Documents above.

31. Third Party Testing Allowance: Bid Form Item D includes Allowance 3 for third-party testing, while Section 33 16 11 Schedule A states that all third-party inspection costs are paid by the Owner. Please define the services funded through the bid allowance and any services paid directly by the Owner. Distinguish those services from Contractor-executed pile load tests and Contractor quality control testing.

    Response: See Changes to the Contract Documents above.

32. Gallery Reducer Sizes: M101 labels 16-by-20-inch reducers beside the branch containing the 14-inch butterfly valve, dismantling joint, and check valve. Please issue the intended reducer sizes and pipe arrangement at that branch so the fitting and valve connections are consistent.

    Response: See Changes to the Contract Documents above.

33. Overflow Diameter and Material Transitions: M104/M105 show a 12-inch overflow with a 12-by-18-inch reducer, while Section 40 06 20 lists a 16-inch overflow and an 18-by-16-inch reducer. Please issue the governing sizes and coordinated details. Identify the locations of the stainless steel, flanged steel, and ductile iron transitions required by Section 33 16 11 Schedule A.

    Response: See Changes to the Contract Documents above.

34. Chemical Dropbox Dimensions: C02A describes a 3-by-3-foot chemical pull box. S202 shows a larger box with an approximately 5 feet 4 inches by 4 feet 10 inches outside footprint and a 4-foot by 3 feet 6 inches access opening. Please issue one coordinated box detail stating clear inside dimensions, outside dimensions, wall thickness, cover opening, and penetration locations.

    Response: Precast vault is designed by precast vault manufacturer. Interior dimensions required for access and equipment are shown on structural and mechanical drawings. Final exterior dimensions will be based on precast vault manufacturer design. See Changes to the Contract Documents above.

35. Overhead Door Material: A101 designates overhead door 100A as aluminum, while Section 08 33 23, 2.02.A.1 requires insulated galvanized steel curtain slats. Please identify the governing curtain material and revise the door schedule or specification accordingly.

    Response: See Changes to the Contract Documents above.

36. Landscape Mowing Responsibility: Section 32 90 00, 3.04.J assigns lawn mowing after the first two cuts to the Owner. Paragraph 3.06.A includes mowing in the Contractor's one-year maintenance obligation. Please state which areas and periods remain the Contractor's responsibility and revise the conflicting provisions.

    Response: See Changes to the Contract Documents above.

37. Project Seeding Schedule: Section 32 90 00, 2.06.E includes permanent seeding nurse crop provisions for May and November, while 3.08.A prohibits permanent seeding during those months. Please reconcile the planting windows. Coordinate C11 with the specification by identifying the permanent, temporary, and nurse crop mixtures applicable to each project area, and provide the referenced Table 6.11d where native seed rates depend on that table.

    Response: See Changes to the Contract Documents above.

38. Personnel Door Materials: The tank door schedule shows hollow metal personnel doors, while Section 33 16 11, 2.7 refers to Section 08 15 00 for fiberglass doors and frames. Please identify the material required for each affected door and issue coordinated door, frame, and anchorage details.

    Response: See Changes to the Contract Documents above.

39. Equipment Manufacturer Minimum Site Visits: Section 46 00 00, 3.03.C requires at least two manufacturer visits, separating installation/testing from startup/training. Sections 43 23 25 and 46 41 42 each list one combined visit of one day. Please state whether those equipment-specific schedules are exceptions to the two-visit minimum and issue a consistent minimum service schedule.

    Response: See Changes to the Contract Documents above.

40. Chemical Room and Gallery Coating Systems: A201 identifies floor sealer and leaves ceiling finishes unassigned for chemical Rooms 200 and 201. Section 09 90 00 Table 1 specifies epoxy systems for chemical room walls/ceilings and secondary containment surfaces. Please issue the room-by-room coating schedule and containment limits. Identify the governing gallery piping coating where Sections 09 90 00 and 09 97 00 describe different systems.

    Response: See Changes to the Contract Documents above.

41. Water Quality Room Countertop: A104 shows a 1.5-inch wood laminate countertop, while Section 06 20 00 specifies Corian or equal solid surface material with a one-inch minimum thickness. Please establish the required material and thickness and revise the countertop detail accordingly.

    Response: See Changes to the Contract Documents above.

42. FRP Grating Design Load: The structural grating detail specifies 150 psf, while Section 06 51 00, 2.02.E and 2.03.E specify 100 psf and different deflection limits for grating and grating floor systems. Please identify the governing load and deflection criterion for each project grating application.

    Response: See Changes to the Contract Documents above.

43. Plumbing Equipment Identification and Backflow Location: Please reconcile the WH-100-2 and WH-200-2 references for the instantaneous lavatory heater. Also establish whether BFP-200-1 is installed indoors as shown or in an exterior hot box enclosure, and coordinate its location, drainage, and access detail.

    Response: See Changes to the Contract Documents above.

44. Construction Entrance Dimensions: C09 shows a 50-foot by 12-foot construction entrance with a stepped six/twelve-inch stone section. Section 31 25 00, 2.08.B requires a minimum 100-foot length, 25-foot width, and six-inch stone layer. Please issue the governing footprint and stone section for this site.

    Response: See Changes to the Contract Documents above.

45. Chemical Building Allowable Bearing Basis: S01 Note F-2 gives an allowable bearing pressure of 1,500 psf. The geotechnical report gives 1,000 psf net allowable bearing pressure for shallow foundations on approved soils or structural fill. Please identify whether the structural value is gross or net and establish the governing foundation design basis, including any overburden adjustment.

    Response: Structural value given on S1 is the net pressure and will need to be achieved prior to foundation construction. Refer to Drawing C2 for preloading requirements and Drawings S201&S202 for subgrade requirements.

46. Compaction Near Existing Structures: Section 31 00 01, 3.09.B.1 prohibits vibratory equipment within 25 feet of an existing structure, while 3.09.B.2 requires a walk-behind vibratory sled or roller within five feet. Please clarify whether the latter is an intended exception and identify the permitted equipment for that zone.

    Response: The provision in Section 31 00 01 3.09B is an intended exception. When performing compaction activities within 5 feet of an existing structure, a walk-behind vibratory sled is permitted. If compaction is taking place within 25 feet, but outside of 5 feet from an existing structure, non-vibratory compaction equipment such as a drum roller with a weight limit of 4 tons must be used.

47. Storm Drain Video Inspection Timing: Section 33 05 39.23, 3.04.B.4 requires video recording at least 30 days after backfill and one month before final acceptance for a two-year warranty. Please state whether one or two recording visits are required and identify the acceptance milestone and warranty start/end dates intended by this provision.

    Response: See Changes to the Contract Documents above.

48. Section 09 97 00, Item 1.2.D and Item 1.4.A prohibit subcontracting of surface preparation and painting. The elevated tank coatings scope of work is performed by specialized contractors to ensure the quality and safety of the work. It is very uncommon for the tank contractor to self-perform the tank coatings work. Can you confirm that qualified coatings subcontractors are allowed to perform this work, provided they meet the experience requirements of Paragraph 1.4.B and are approved by the coating manufacturer?

    Response: Subcontractors will be considered assuming all information is provided to comply with the requirements of 1.4.B before performing any work.

49. Section 09 97 00, Item 1.4.D requires the Contractor to provide full-time NACE CIP Level 3 or QP1/QP2 representation on site. Section 09 97 00, Item 1.1.B also indicates that the Owner will provide full-time inspection services. Given the Owner's full-time inspection coverage, requiring additional full-time NACE CIP Level 3 or QP1/QP2 representation by the Contractor appears duplicative and results in unnecessary project costs. Can you confirm the requirement for the Contractor to provide full-time NACE CIP Level 3 or QP1/QP2 representation will be removed?

    Response: Full-time NACE representation by the Contractor will not be required.

50. Section 09 97 00, Item 2.2.F.1, Concrete Slab Sealer, requires exposed exterior concrete surfaces to be sealed and include a slip-resistant additive. Can you confirm that this requirement does not apply to the exterior concrete pedestals?

    Response: See Changes to the Contract Documents above.

51. Section 10 11 00 Item 1.01 calls for the Contractor is to provide Visual Display Boards, however no display boards are shown within the drawings. Can you confirm that no display boards are required for this project?

    Response: See Changes to the Contract Documents above.

52. Section 10 50 00 Item 1.01 calls for the Contractor is to provide Metal Lockers, however no lockers are shown within the drawings. Can you confirm that no lockers are required for this project?

    Response: See Changes to the Contract Documents above.

53. Drawing Sheet M104 shows a domed roof. This is one specific manufacturer standard detail. Our standard roof construction is conical in shape, not domed. Either option will

minimize snow accumulation and water ponding, and both are acceptable per AWWA D107 standards. Can you confirm that individual manufacturers standard details will be acceptable?

Response: See Changes to the Contract Documents above.

54. Section 05 51 33 Item 2.04 identifies Honeywell, DBI Sala, or approved equals for the provided safety climb devices. Our standard design utilizes an aluminum rigid rail ladder safety device that meets OSHA standards. Can you confirm our aluminum ladder safety devices are acceptable?

    Response: Or equals will be considered during shop drawings review process.

55. Section 05 51 33 Item 2.03.B calls for aluminum ladders “unless noted otherwise”. Industry standard utilizes galvanized ladders. Drawing Sheet M104 shows a 316 stainless steel ladder inside the tank. Can you confirm that a galvanized ladder inside the access tube and the tank is acceptable?

    Response: See changes to the contract documents.

56. The Bid Form Item D gives an allowance for Third Pary Testing by Terracon Consultants, LLC. Can you confirm that this allowance includes concrete testing?

    Response: See Changes to the Contract Documents above.

57. Can you confirm we follow Section 33 16 11, AWWA D107 and industry standards for the composite tank support wall relating to mixes, curing, form removal times, etc. in lieu of Section 03300 as Division 3 relates more to concrete operations such as concrete paving and sidewalks, etc?

    Response: No change to the contract documents. All concrete for this project is specified under Section 03 30 00. Concrete curing is specified in Section 03 39 00. Early termination of curing shall be permitted when requirements stated in Section 03 39 00-3.05 are met.

58. Section 01 31 19 Item 1.02.2.a requires the Project Manager to attend all progress meetings. Can you confirm that virtual attendance of these meetings is acceptable?

    Response: Monthly progress meetings will be in person and the Contractor will need to have an on-site representative present. A hybrid option can be made available.

59. Section 01 52 00 Item 1.01.A.2 states the Contractor is to provide an Owners Field Office. It is uncommon that an Owners Field Office is required or provided for an Elevated Water Storage Tank project. Can you confirm an Owners Field Office is not required?

    Response: 01 52 00, remove Item 1.01.A.2.

60. The E-Verify Affidavit requires the Contractor to submit the subcontractors employed to do the scope of work with the Bid. This will be difficult to accomplish due to not receiving subcontractor's pricing until moments prior to bid submission. Can you confirm that the E-Verify Affidavit can be submitted post-bid?

    Response: E-verify shall be submitted as part of the submitted bid.

61. Can you confirm funding is in place for this project?

    Response: Greenville Utilities Commission is funding the project.

62. Can you confirm the budget amount for this project?

    Response: There is no budget available for distribution.

63. What is planned Notice of Award date for the project?

    Response: No response provided.

64. What is the planned Notice to Proceed date for the project?

    Response: No response provided.

65. Can you describe the process or events (i.e. approval by council, board of directors, etc.) that must occur and anticipated dates and durations that must occur in order to award this project?

    Response: No response provided.

66. Is this project subject to any Build America, Buy America, or other domestic material procurement requirements? If yes, can the specific requirements and or references be provided?

    Response: No

67. Is this project subject to any Buy American, American Iron and Steel or other domestic material procurement requirements? If yes, can the specific requirements and or references be provided?

    Response: No

68. Is this project subject to any prevailing wage rates?

    Response: No

69. If the project is subject to prevailing wages, can a Wage Determination Schedule be provided?

    Response: No response provided.

70. Because a Building Permit is required and the Contractor is to pay all associated fees, can a fee schedule be provided so Bidders can include the appropriate costs within the bid pricing?

    Response: No response provided.

71. Can you confirm that the Owner has obtained the necessary approvals and permits required to start construction?

    Response: No response provided.

72. Are there any governing agencies (federal/state/local agencies other than the building permit department) that must review and approve the project drawings prior to the start of construction? If so, who are these agencies and what is the anticipated duration for their review period?

    Response: No response provided.

73. Can you confirm that the Owner currently owns the property (or properties) where work is to be performed? If not, can you provide information on the timing in which ownership will be obtained?

    Response: The Owner owns the property.

74. Can you confirm that the Owner currently owns and/or otherwise possess all required easements or permissions to work on or access the property (or properties) where the work is to be performed? If not, can you provide information on the timing in which these easement or permissions will be obtained?

    Response: The Owner owns the property and required encroachment agreements have been obtained.

75. Due to the nature of tank erection work and the travel distance for our field personnel, working weekends is advantageous for the project from both a cost and schedule perspective. This is even true if the work allowed on the weekends is restricted to non-inspected work. If weekend work is not approved during the bidding phase, it will negatively affect the bid by adding significant costs and duration to the project. Can you confirm that Saturday work will not be restricted?

    Response: Saturday work will be acceptable for work not requiring special inspections.

76. Due to the nature of tank erection work and the travel distance for our field personnel, working weekends is advantageous for the project from both a cost and schedule perspective. This is even true if the work allowed on the weekends is restricted to non-inspected work. If weekend work is not approved during the bidding phase, it will negatively affect the bid by adding significant costs and duration to the project. Can you confirm that Sunday work will not be restricted?

Response: Sunday work will be acceptable for work not requiring special inspections.

77. Due to the nature of tank erection work and the travel distance for our field personnel, working nights is advantageous for the project from both a cost and schedule perspective. This is even true if the work allowed at night is restricted to non- inspected work. If night work is not approved during the bidding phase, it will negatively affect the bid by adding significant costs and duration to the project. Can you confirm that night work will not be restricted?

    Response: Night work will be acceptable for work not requiring special inspections.

78. Section 01 51 00 Item 1.03 states that all costs, both temporary and permanent electric utilities, shall be the responsibility of the Contractor and be included in the Bid. Can a cash allowance be established to ensure all Bidders include the same Scope of Work and the Owner pays only the cost of the Work?

    Response: No change to the contract documents.

79. Can you confirm the Owner will provide a location for the Contractor to access temporary water at, or near the Project Site, at no cost to the Contractor?

    Response: See Changes to the Contract Documents above.

80. The overflow is listed at 201.0' on the drawings, but the maximum water elevation is shown at 202.0'. The maximum water elevation cannot be above the overflow.

    Response: No change to the contract documents.

81. The specifications call for a dome roof. We would prefer to provide a cone roof. Will a cone roof be acceptable?

    Response: See Changes to the Contract Documents above.

82. There is a dimension of 134'-9" from top of foundation shown on drawing M104. This dimension appears to be to the roof guardrail. Is there a maximum elevation of the structure that we need to be aware of?

    Response: This height is shown for reference. Heights in excess will be considered by the engineer. Variations are expected between manufacturers.

83. The specifications call for a 30" tank vent. Our standard is a 24" pressure-vacuum vent. Will this be acceptable if we can demonstrate that it is sufficient for the specified flow rate?

    Response: Vents meeting the requirement of Schedule A in Section 33 16 11 will be considered for use on this project.

84. The vent is specified as stainless steel. Our standard vent is aluminum. The stainless steel vent will be very heavy and will not be removable during painting operations in the future. Is an aluminum vent acceptable?

    Response: Contractor shall bid stainless steel. If a credit is offered for alternate vent material during construction, the proposal will be considered.

85. The specifications call for pipe supports at 10'-0" and it is typical to allow 20'-0" spacing for pipe supports. Will 20'-0" pipe supports be acceptable?

    Response: No change to the contract documents.

86. The pile specification requires compression, tension and lateral load tests, but does not specify how many tests of each are required. How many tests of each type are required? As a side note, on CET's it is not uncommon for there to be zero uplift to the piles and we have never seen a lateral load test required. Please keep in mind that the pile lateral load test will occur at grade, but the top of the pile will be embedded into a pile cap at least 12' below finished grade.

    Response: Load tests are required where shown on the Tank Foundation Drawings. Tank Foundation Drawings are prepared by the Tank Foundation Engineer and hired by the Contractor. See Section 31 08 13 Part 1 and 1.02A. No change to Contract Documents.

87. The specifications call for a 30" diameter manhole at the top of the shaft to access the exterior paint rail, but the 24" x 36" louver is typically how the exterior paint rail is accessed. Please confirm the 24" x 36" manhole is all that is required for access to the exterior painter's manhole.

    Response: Alternate geometries for access to the exterior painter’s rail will be considered provided the requirements of AWWA D107 are maintained and an access cover or louver is provided.

88. Please confirm the required door dimensions on the chemical building.

    Response: See door schedule on A201.

89. Requesting an additional week to develop our bid to allow for incorporation of addendum answers and optimization of our pricing.

    Response: The timing of bid opening will remain unchanged.

90. For the inside tank ladder the drawings mention 316SS as the material. Our standard offering is Carbon steel material. Can the interior tank ladder be painted carbon steel to prevent dissimilar metals in the tank bowl?

    Response: No change to the Contract Documents.

91. Are the cables in the access tube needed, if they are also required in the telecommunications chase section?

Response: No change to the Contract Documents.

92. Per drawings the pressure vacuum roof vent is SS but we offer Aluminum roof vents. Is this acceptable?

    Response: Contractor shall bid stainless steel. If a credit is offered for alternate vent material during construction, the proposal will be considered.

93. Per drawings 2 SS roof vents are needed with different screen materials mentioned in the specs and drawing. Clarification needed on the vents and the screens.

    Response: Vents meeting the requirement of Schedule A in Section 33 16 11 will be considered for use on this project.

94. Submersible mixer — E103 shows a 3-pole 208V circuit; Section 46 30 00 and I101 call for 230V single-phase. Please confirm voltage and cable route.

    Response: Submersible mixer shall be suitable for use with a 208V, three phase power supply.

95. Cathodic protection — Section 13 47 13 refers to a rectifier circuit; none is shown on the drawings.

    Response: See Changes to the Contract Documents above.

96. Fire alarm requirement — The code summaries on A100 and A200 list 'Fire Alarm: No' and 'Sprinklers: No', while E200 Note 9, FP200 and Section 28 46 20 require a system. Please confirm.

    Response: See Changes to the Contract Documents above.

97. Heat trace controls — Section 40 41 13 2.03 lists three different control arrangements. Please confirm which applies.

    Response: Control requirements from Section 40 41 13-2.03-A apply for heat tracing controls. See Changes to the Contract Documents above.

98. Generator gas sizing — P103 Note 2 sizes the gas service at 20.5 cubic feet per hour on a 3/4" line; an 80 kW natural gas generator typically needs about 1,000 cubic feet per hour at full load. Please confirm the design flow and pipe size.

    Response: See Changes to the Contract Documents above.

ABBREVIATIONS

C	CONCRETE GRADE
CI/CB	CURB INLET/CATCH BASIN
CORR	CORRIDOR
DI	DUCTILE IRON/DROP INLET
FL	FLOW LINE
FM	FORCE MAIN
FOC	FACE OF CURB
G	GAS/GAS LINE
L/P	LIGHT POLE
NPW	NON POTABLE WATER
OVHD	OVERHEAD
P	PAVEMENT GRADE
PV	PLUG VALVE
PW	POTABLE WATER
RD	ROAD/ROOF DRAIN
RW	RAW WATER
R/W	RIGHT-OF-WAY
SAN	SANITARY
SD	STORM DRAIN
SEW	SEWER
SS	SANITARY SEWER
ST	STREET
W/L	WATER LINE

GENERAL NOTES

1. TOPOGRAPHIC SURVEY DATED FEBRUARY, 2025 BY THE EAST GROUP
   324 EVANS STREET
   GREENVILLE, NC 27858
   (252) 758-3746

   HORIZONTAL DATUM: NAD 1983 (2011)
   VERTICAL DATUM: NAVD 1988

2. WORK SHALL COMPLY WITH APPLICABLE STATE, FEDERAL, AND LOCAL CODES. NECESSARY LICENSES AND PERMITS SHALL BE OBTAINED BY CONTRACTOR AT ITS EXPENSE, UNLESS PREVIOUSLY OBTAINED BY THE OWNER AND PROVIDED IN THE CONTRACT DOCUMENTS.

3. CONTRACTOR SHALL KEEP A COMPLETE SET OF CONTRACT DOCUMENTS AS WELL AS PERMITS ON THE JOB SITE AT ALL TIMES.

4. DEVIATION FROM THE CONTRACT DOCUMENTS WITHOUT THE PRIOR WRITTEN CONSENT OF THE OWNER OR THE ENGINEER MAY BE CAUSE FOR THE WORK TO BE DEEMED UNACCEPTABLE.

5. IN AREAS WHERE OVERHEAD POWER LINES ARE PRESENT, CONTRACTOR MUST CONTACT THE UTILITY PRIOR TO CONSTRUCTION ACTIVITIES TO DETERMINE THE MINIMUM REQUIRED EQUIPMENT CLEARANCE (MEC) DISTANCE BASED UPON LINE STRENGTH.

6. CONTRACTOR SHALL NOTIFY THE CITY OF GREENVILLE ENGINEERING DEPARTMENT AT 252-329-4888, 48 HOURS PRIOR TO MAKING CONNECTIONS TO EXISTING STORM DRAINS LOCATED WITHIN PUBLIC STORM DRAINAGE EASEMENTS OR RIGHT-OF-WAY

7. CONTRACTOR SHALL MAKE EVERY EFFORT TO SAVE PROPERTY IRONS, MONUMENTS, OTHER PERMANENT POINTS AND LINES OF REFERENCE AND CONSTRUCTION STAKES. A REGISTERED LAND SURVEYOR SHALL, AT THE CONTRACTOR'S EXPENSE, REPLACE PROPERTY IRONS, MONUMENTS, AND OTHER PERMANENT POINTS OF REFERENCE DESTROYED, DAMAGED, OR DISPLACED BY THE CONTRACTOR.

8. CONTRACTOR SHALL PROVIDE A MEANS TO KEEP ALL PIPING ISOLATED FROM EXISTING PIPING UNTIL ALL NEW PIPING HAS BEEN PRESSURE TESTED AND FLUSHED, PASSED BACTERIOLOGICAL TESTS AND IS ACCEPTED FOR USE BY OWNER AND ENGINEER.

9. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL DRIVEWAYS AND AFFECTED PROPERTIES AT ALL TIMES DURING CONSTRUCTION.

10. CONTRACTOR SHALL PREVENT ANY WATER ASSOCIATED WITH CONCRETE OR ASPHALT CUTTING FROM ENTERING STORM DRAINS. IF CUTTING WATER ENTERS STORM DRAIN, CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL.

11. CONTRACTOR SHALL BE RESPONSIBLE FOR IMMEDIATELY CLEANING ANY SOIL WHICH IS TRACKED OFF WORK SITE.

12. CONTRACTOR SHALL PROVIDE FULL DEPTH PAVEMENT REPLACEMENT AT ALL LOCATIONS WHERE PAVEMENT IS REMOVED IN ACCORDANCE WITH NCDOT DIVISION 2.

13. ALL DRAINAGE PIPE SHALL BE CLASS III RCP, UNLESS OTHERWISE NOTED.

14. ALL CONSTRUCTION AND REQUIRED IMPROVEMENTS SHALL CONFORM TO THE CITY OF GREENVILLE MANUAL OF STANDARD DESIGNS AND DETAILS. (2023 MSDD)

15. LANE CLOSURES ON THOROUGHFARE ROADS ARE ONLY PERMITTED BETWEEN THE HOURS OF 9:00AM AND 4:00PM, MONDAY THROUGH FRIDAY, UNLESS OTHERWISE PERMITTED BY THE TRAFFIC ENGINEER. IN ADDITION, THERE WILL BE NO LANE CLOSURES ON HOLIDAYS INCLUDING THE DAY BEFORE OR AFTER SAID HOLIDAY. A TRAFFIC CONTROL PLAN PREPARED IN ACCORDANCE WITH THE NCDOT MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES IS REQUIRED FOR ALL LANE CLOSURES AND MUST BE APPROVED BY THE TRAFFIC ENGINEER.

UTILITY NOTES

GENERAL UTILITY NOTES

1. EXISTING UTILITIES SHOWN FOR REFERENCE ONLY. ALL UTILITY STRUCTURES (MANHOLES, POWER POLES, ETC.) VISIBLE AT THE GROUND SURFACE WERE FIELD LOCATED. THE CONTRACTOR SHALL VERIFY WITH UTILITY COMPANIES THE EXACT LOCATION, SIZE AND DEPTH OF UNDERGROUND UTILITY LINES.

2. CONTRACTOR MUST NOTIFY ONE - CALL CENTER, INC. (NC ONE-CALL) (811) AT LEAST 72 HOURS PRIOR TO THE START OF EXCAVATION OR TRENCHING TO HAVE ALL UNDERGROUND UTILITIES LOCATED.

3. ELECTRICAL AND TELEPHONE LINES SHOWN FOR COORDINATION ONLY. SEE ELECTRICAL PLANS FOR SITE LIGHTING AND POWER LOCATIONS.

4. TESTING AND INSPECTION FOR WATER, SEWER AND STREET IMPROVEMENTS SHALL BE IN ACCORDANCE WITH THE GREENVILLE UTILITY COMMISSION AND THE CITY OF GREENVILLE STANDARD SPECIFICATIONS AND DETAIL DRAWINGS, LATEST EDITION AND NCDOT STANDARDS, AS APPLICABLE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE APPROPRIATE PARTY TO ARRANGE FOR INSPECTIONS. TESTING SHALL BE OBSERVED BY THE ENGINEER AND THE GREENVILLE UTILITY COMMISSION INSPECTOR. THE CONTRACTOR SHALL CONTACT THE GREENVILLE UTILITY COMMISSION WATER RESOURCES DEPARTMENT AT (252) 551-1551 AND THE CITY OF GREENVILLE ENGINEERING DEPARTMENT AT (252) 329-4888, PRIOR TO THE START OF ANY WATER TAPS, DRIVEWAYS, STORM DRAINAGE OR ROADWAY IMPROVEMENTS.

5. SUBMIT AS-BUILT DRAWINGS OF THE WATER AND STORM SEWER SYSTEMS TO HAZEN. HAZEN WILL PREPARE THE RECORD DRAWINGS AND WILL FURNISH TO THE GREENVILLE UTILITY COMMISSION UPON PROJECT COMPLETION.

6. CONTRACTOR SHALL PROVIDE TRENCH BOX OR SHORING IN ACCORDANCE WITH OSHA REGULATIONS.

ELECTRICAL SERVICE NOTES

1. UPON INSTALLATION OF PERIMETER EROSION CONTROL MEASURES, THE CONTRACTOR SHALL SCHEDULE AN ON-SITE MEETING WITH THE GREENVILLE UTILITIES COMISSION, ELECTRICAL ENGINEERING DEPARTMENT, AT (252) 551-1582, FOR POWER SUPPLY TO THE SITE. THIS MEETING WILL FACILITATE THE COORDINATION NEEDED TO ESTABLISH CONSTRUCTION SCHEDULES, THE LOCATION OF THE ON-SITE POWER POLE, GUY WIRE LOCATIONS, AND ROUTE(S) FOR THE UNDERGROUND ELECTRIC CONDUIT(S).

2. ALL SITE LIGHTING SHALL COMPLY WITH THE LIGHTING STANDARDS FOR THE CITY OF GREENVILLE

UTILITY NOTES (CONT.)

WATER SYSTEM NOTES AND SHUTDOWN PLAN

1. WATER MAINS TO BECOME GREENVILLE UTILITY COMMISSION OWNED AND MAINTAINED SHALL BE INSPECTED BY THE GREENVILLE UTILITY COMMISSION OR THEIR DESIGNATED REPRESENTATIVE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE APPROPRIATE PARTY PRIOR TO BEGINNING ANY WORK RELATED TO THE WATER MAIN TO ARRANGE FOR INSPECTION.

2. CONTRACTOR SHALL CONTACT THE GREENVILLE UTILITIES COMISSION, AT (252) 551-1551, AND THE DESIGNATED REPRESENTATIVE, AT LEAST FIVE (5) BUSINESS DAYS IN ADVANCE OF ANY SYSTEM SHUT DOWN.

3. ALL SHUT DOWNS OF WATER SUPPLY, INCLUDING POTENTIAL TIME RESTRICTIONS, SHALL BE COORDINATED WITH THE GREENVILLE UTILITY COMMISSION.

4. THE GREENVILLE UTILITY COMISSION SHALL OPERATE THE EXISTING VALVES DURING THE SYSTEM SHUT DOWN FOR THE TIE-IN OF THE PROPOSED WATER LINE.

5. WATER MAINS SHALL BE INSTALLED WITH A MINIMUM OF 4' OF COVER EXCEPT AS NOTED ON PLANS.

6. ALL NEW PIPE, VALVES AND FITTINGS FOR THE POTABLE WATER LINES SHALL BE RESTRAINED JOINT DUCTILE IRON UNLESS EXPLICIT APPROVAL IS PROVIDED BY THE GREENVILLE UTILITY COMMISSION. DUCTILE IRON WATER MAIN SHALL BE PRESSURE CLASS 250. A THRUST RESTRAINT DESIGN OF 350 PSI SHALL BE USED FOR THE PROJECT.

7. THE OWNER SHALL PROVIDE FOR COMPACTION TESTING IN TRENCHES BY A CERTIFIED GEOTECHNCIAL COMPANY AT AN INTERVAL AS APPROVED BY THE OWNER.

8. ALL WATER LINES SHALL BE DISINFECTED BY CHLORINATION AND PRESSURE TESTED PER THE GREENVILLE UTILITY COMMISSION STANDARD SPECIFICATIONS PRIOR TO FINAL ACCEPTANCE. CHLORINATION AND TESTING SHALL BE CARRIED OUT UNDER THE OBSERVATION OF THE GREENVILLE UTILITY COMMISSION'S INSPECTOR OR THEIR DESIGNATED REPRESENTATIVE.

SITE INFORMATION

STORMWATER INFORMATION

1. WATERSHED INFORMATION
   TAR-PAMLICO RIVER BASIN
   CITY OF GREENVILLE - TAR RIVER WATERSHED (GREENS MILLS RUN SUB-WATERSHED, HUC 030201030403)
   TRIBUTARY OF TAR RIVER
   CLASSIFICATION: AQUATIC LIFE, SECONDARY CONTACT RECREATION, FRESH WATER (C); NUTRIENT SENSITIVE WATERS (NSW)

2. THE SUBJECT PROPERTY LIES IN ZONE X (AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE AND FUTURE CONDITIONS 1% ANNUAL CHANCE FLOODPLAIN), BASED ON THE FLOOD INSURANCE RATE MAP COMMUNITY MAP NUMBER 3720466600J DATED 07/07/2014. FLOOD HAZARD LINES SHOWN HEREON ARE FROM FRIS.NC.GOV.

3. NO JURISDICTIONAL FEATURES, OR THE RESPECTIVE BUFFERS, WILL BE DISTURBED OR IMPACTED AS PART OF THIS PROJECT.

4. IMPERVIOUS AREA CALCULATIONS:

TOTAL AREA OF SITE:	217,821 SF (5.00 AC±)
EX. IMPERVIOUS AREA:	0 SF
NEW IMPERVIOUS AREA:	12,648 SF
TOTAL IMPERVIOUS AREA:	12,648 SF (0.29 AC±)
PERCENT IMPERVIOUS AREA:	5.8%

LEGEND

MATERIALS

- GRADE OR EARTH
- ASPHALT PAVING
- CONCRETE
- WATER SURFACE
- WETLAND
- RIPRAP
- CLEARED / DEMOLISHED AREA
- FIBER FILTRATION TUBE
- STABILIZED OUTLET
- CURB INLET PROTECTION
- CONSTRUCTION ENTRANCE
- LAYDOWN / STOCKPILE YARD
- PRELOAD SUBGRADE AREA (4)

EXISTING		PROPOSED
W — WATER LINE	x — FENCE	SF — SILT FENCE
SS — SANITARY SEWER	BUFFER	TREELINE
SD — STORM DRAIN	RIGHT-OF-WAY	x — FENCE
E — ELECTRIC	CL CHANNEL/DITCH	LOD — LOD — LIMITS OF DISTURBANCE
T — TELEPHONE	(S) SAN SEWER MH	CL CHANNEL/DITCH
GAS — NATURAL GAS	(D) STORM DRAIN MH	WATER MAIN
OHE — OVERHEAD ELECTRICAL	FIRE HYDRANT	TREE (TO BE REMOVED)
UGE — UNDERGROUND ELECTRICAL	CURB INLET	FIRE HYDRANT
TREELINE	POWER POLE	OUTLET PROTECTION
PROPERTY LINE	LIGHT POLE	YARD HYDRANT
EASEMENT LINE	GUY WIRE	FLARED END SECTION
SOIL BORING	TREE	GM — GAS METER

REV	ISSUED FOR	DATE	BY
4	ADDENDUM 1	10/2026	JBH
3	CONSTRUCTION	9/2026	JBH
2	REGULATORY REVIEW	5/2026	JBH
1	REGULATORY REVIEW	3/2026	JBH

PROJECT ENGINEER:	J. HENNESSY
DESIGNED BY:	J. KLINGAMAN
DRAWN BY:	A. CHIODINI
CHECKED BY:	M. SANTOWASSO

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE — 0 1/2" 1"

FINAL DRAWINGS - ISSUED FOR CONSTRUCTION

NORTH CAROLINA PROFESSIONAL SEAL 18560 ENGINEER L. MICHAEL SANTOWASSO — Michael Santowasso 2026.10.22 14:26:29 -04'00'

Hazen

HAZEN AND SAWYER
4011 WESTCHASE BLVD, SUITE 500
RALEIGH, NORTH CAROLINA 27607
LICENSE NO.: C-0381

GREENVILLE UTILITIES
GREENVILLE, NORTH CAROLINA

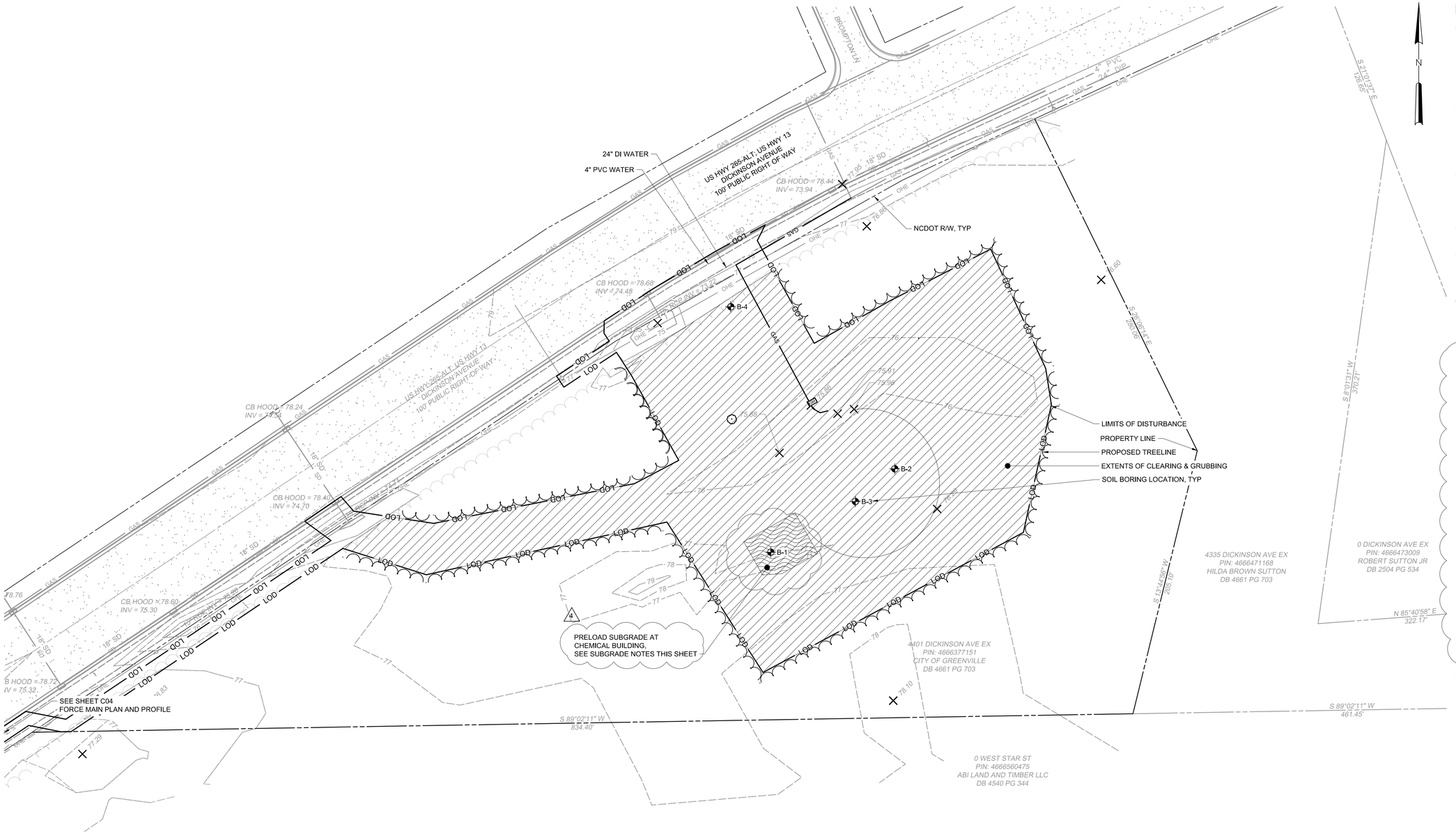
WESTSIDE ELEVATED STORAGE TANK

GERERAL

CIVIL NOTES AND ABBREVIATIONS

DATE:	SEPTEMBER 2026
HAZEN NO.:	31218-012
CONTRACT NO.:	1
DRAWING NUMBER:	C00

File: C:_DOCACCDOCS\HAZEN AND SAWYER\31218-012\PROJECT FILES\1-DESIGN\01-HAZEN\GENERAL\C00 Saved by ACHIODINI Save date: 10/22/2026 2:18 PM
PLOT DATE: 10/22/2026 2:18 PM BY: ACHIODINI



PLAN
SCALE: 1" = 40'

NOTES:

1. TOPOGRAPHIC AND BOUNDARY SURVEY WAS COMPLETED IN FEBRUARY, 2025, BY THE EAST GROUP.

   324 EVANS STREET
   GREENVILLE, NC 27858
   (252) 758-3746

2. HORIZONTAL DATUM IS NAD 83 (2011) AND VERTICAL DATUM IS NAVD88, BASED ON GPS METHODS USING REAL-TIME KINEMATIC SOLUTIONS FOR THE SURVEY CONTROL POINTS SHOWN HEREON AND TIED TO NORTH CAROLINA GEODETIC SURVEY. NO MONUMENT FOUND WITHIN 2,000' OF SITE.
3. UTILITIES SHOWN HEREON ARE BASED ON ABOVE-GROUND VISIBLE EVIDENCE AND UTILITY DESIGNATION/MARKING SERVICES (LEVEL B) PERFORMED AS A PART OF THIS SURVEY.
4. TREES SHOWN HEREON MAY NOT REPRESENT ALL VEGETATION ON THE SUBJECT PROPERTY.
5. SITE ADDRESS:

   4401 DICKINSON AVE EXT,
   GREENVILLE, NC 27834

6. ONLY VEGETATION ON THE SUBJECT PROPERTY AND WITHIN THE LIMITS OF DISTURBANCE SHALL BE REMOVED.

SUBGRADE NOTES: 4

1. AREA INDICATED ON PLAN SHALL BE PRELOADED USING SURCHARGE FILL FOR LOAD SHOWN ON SHEET S1. THE SURCHARGE FILL SHALL EXTEND 10 FEET OUTSIDE THE CHEMICAL BUILDING ENVELOPE AS SHOWN.
2. PRIOR TO PLACEMENT OF ANY SURCHARGE FILL MATERIAL, SETTLEMENT PLATES SHALL BE INSTALLED ON THE PREPARED SUBGRADE. COORDINATE WITH GEOTECHNICAL ENGINEER FOR LOCATIONS AND DETAILS.
3. PLACE SURCHARGE FILL IN LOOSE LIFTS, UP TO A PRELOAD HEIGHT OF **5 FEET** AND COMPACT AS DIRECTED BY THE GEOTECHNICAL ENGINEER
4. THE CONTRACTOR SHALL SECURE THE SERVICES OF A LICENSED LAND SURVEYOR TO MONITOR THE SETTLEMENT PLATES. ELEVATION READINGS SHALL BE TAKEN ON THE SURFACE OF THE PLATE AND THE TOP OF THE BAR AT THE TIME OF INSTALLATION. SUBSEQUENT READINGS SHALL BE OBTAINED UNDER THE DIRECTION OF THE GEOTECHNICAL ENGINEER.
5. DURATION OF THE READINGS AND SURCHARGE SHALL BE ASSUMED TO BE **6 WEEKS** AFTER COMPLETION OF THE SURCHARGE FILL PLACEMENT. SUBMIT ELEVATION READINGS TO THE STRUCTURAL AND GEOTECHNICAL ENGINEER ON A WEEKLY BASIS.

REV	ISSUED FOR	DATE	BY
4	ADDENDUM 1	10/2026	JBH
3	CONSTRUCTION	9/2026	JBH
2	REGULATORY REVIEW	5/2026	JBH
1	REGULATORY REVIEW	3/2026	JBH

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE (0, 1/2", 1")

PROJECT ENGINEER: J. HENNESSY
DESIGNED BY: J. KLINGAMAN
DRAWN BY: A. CHIODINI
CHECKED BY: M. SANTOWASSO

FINAL DRAWINGS - ISSUED FOR CONSTRUCTION

NORTH CAROLINA PROFESSIONAL SEAL 18560 ENGINEER L. MICHAEL SANTOWASSO — Michael Santowasso 2026.10.22 14:26:12 -04'00'

Hazen
HAZEN AND SAWYER
4011 WESTCHASE BLVD, SUITE 500
RALEIGH, NORTH CAROLINA 27607
LICENSE NO.: C-0381

GREENVILLE UTILITIES
GREENVILLE, NORTH CAROLINA

WESTSIDE ELEVATED STORAGE TANK

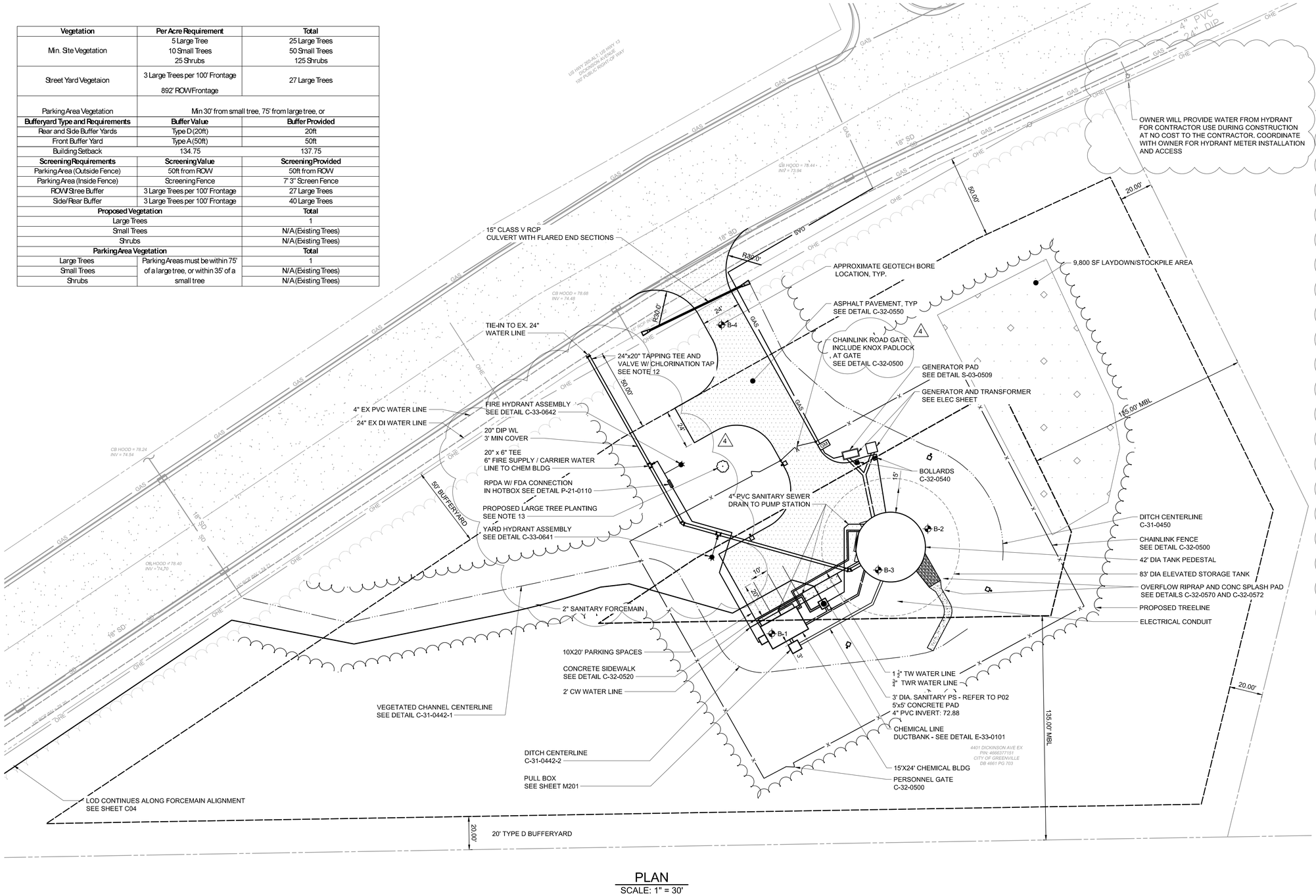
EXISTING CONDITIONS

EXISTING CONDITIONS AND DEMOLITION PLAN

DATE: SEPTEMBER 2026
HAZEN NO.: 31218-012
CONTRACT NO.: 1
DRAWING NUMBER: C01

File: C:_DOCACCDOCS\HAZEN AND SAWYER\31218-012\PROJECT FILES\1-DESIGN\01-HAZEN\CIVIL\C01 Saved by ACHIODINI Save date: 10/22/2026 2:05 PM
PLOT DATE: 10/22/2026 2:05 PM BY: ACHIODINI

Vegetation	Per Acre Requirement	Total
Min. Ste Vegetation	5 Large Tree 10 Small Trees 25 Shrubs	25 Large Trees 50 Small Trees 125 Shrubs
Street Yard Vegetaion	3 Large Trees per 100' Frontage 892' ROW Frontage	27 Large Trees
Parking Area Vegetation	Min 30' from small tree, 75' from large tree, or	
Bufferyard Type and Requirements	**Buffer Value**	**Buffer Provided**
Rear and Side Buffer Yards	Type D (20ft)	20ft
Front Buffer Yard	Type A (50ft)	50ft
Building Setback	134.75	137.75
Screening Requirements	**Screening Value**	**Screening Provided**
Parking Area (Outside Fence)	50ft from ROW	50ft from ROW
Parking Area (Inside Fence)	Screening Fence	7' 3" Screen Fence
ROW Stree Buffer	3 Large Trees per 100' Frontage	27 Large Trees
Side/Rear Buffer	3 Large Trees per 100' Frontage	40 Large Trees
Proposed Vegetation		**Total**
Large Trees		1
Small Trees		N/A (Existing Trees)
Shrubs		N/A (Existing Trees)
Parking Area Vegetation		**Total**
Large Trees	Parking Areas must be within 75'	1
Small Trees	of a large tree, or within 35' of a	N/A (Existing Trees)
Shrubs	small tree	N/A (Existing Trees)



PLAN
SCALE: 1" = 30'

SCALE: 1" = 30'

NOTES:

1. CONTRACTOR SHALL PERFORM ANY ADDITIONAL GEOTECHNICAL EXPLORATIONS DEEMED NECESSARY BEYOND THE PROVIDED GEOTECHNICAL REPORT FOR THE COMPLETE TANK FOUNDATION DESIGN AND THE AUGER CAST PILE DESIGN AT NO ADDITIONAL COST TO THE OWNER.
2. SEE DETAIL ON SHEET C07 FOR TYPICAL CHEMICAL DUCTBANK DETAIL
3. LONG RADIUS BENDS SHALL BE USED FOR CHEMICAL CASING PIPE IN DUCTBANK AT ALL LOCATIONS WHERE BENDS ARE SHOWN
4. A MINIMUM OF 3 FEET OF COVER SHALL BE MAINTAINED FOR THE PROPOSED 20" DIP WATERLINE.
5. FOR MORE DETAILED PIPE LAYOUT INFORMATION, SEE YARD PIPING PLAN SHEET C02A
6. UNLESS OTHERWISE PROVIDED, ALL PLAN MATERIALS SHALL MEET THE MINIMUM SIZE STANDARDS IN TABLE 9-4-503 (A) OF THE CITY OF GREENVILLE UDO, AT THE TIME OF PLANTING AND/OR QUALIFICATION IN THE CASE OF EXISTING MATERIALS IN TABLE 9-4-503 (B)
7. AT MINIMUM, 50% OF ALL ON-SITE VEGETATION MUST CONSIST OF NATIVE SPECIES
8. ALL PARKING AREAS SHALL BE SCREENED IN ACCORDANCE WITH SECTION 9-4-506 (B) OF THE CITY OF GREENVILLE UDO
9. NO PORTION OF ANY PARKING AREA, INCLUDING ANY DRIVEWAY, PARKING SPACE, DRIVE AISLE OR TURNING AREA SHALL BE LOCATED MORE THAN 30 FEET FROM AN ON-SITE SMALL TREE OR MORE THAN 75 FEET FROM AN ON-SITE LARGE TREE
10. EXISTING SUBSTITUTE MATERIAL SHALL BE PROTECTED FROM DEVELOPMENT ACTIVITIES IN ACCORDANCE WITH UDO SECTION 9-4-503 (B)(5)
11. EXISTING TREES ARE TO BE VERIFIED AT THE TIME OF INSPECTION. IF EXISTING VEGETATION QUANTITIES DO NOT MEET THE REQUIREMENT, ADDITIONAL PLANTS SHALL BE INSTALLED TO MEET THE MINIMUM REQUIREMENT.
12. CHLORINATION TAP & BACTERIOLOGICAL SAMPLE POINT (BSP) TEMPORARY CHLORINATION TAPS AND BACTERIOLOGICAL SAMPLE POINTS SHALL BE CONSTRUCTED OF THE SAME MATERIALS AS ONE INCH WATER SERVICES. TEMPORARY APPURTENANCES SHALL BE INSTALLED SUCH THAT THE ANGLE BALL VALVE IS SECURELY LOCATED 36" MIN ABOVE FINISHED GRADE. UPON APPROVAL OF FINAL BACTERIOLOGICAL SAMPLES THE TUBING AND ANGLE BALL VALVE SHALL BE REMOVED, THE CORPORATION STOP CLOSED AND A CAP PLACED ON THE CORPORATION STOP.
13. PROPOSED TREE PLANTING MUST BE A MINIMUM OF 10FT IN HEIGHT AND 2" CALIPER. REFER TO CITY OF GREENVILLE UDO FOR LIST OF ACCEPTABLE LARGE TREE SPECIES AND NOTES

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4	ADDENDUM 1	10/2026	JBH
3	CONSTRUCTION	9/2026	JBH
2	REGULATORY REVIEW	5/2026	JBH
1	REGULATORY REVIEW	3/2026	JBH

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE (0, 1/2", 1")

PROJECT ENGINEER:	J. HENNESSY
DESIGNED BY:	J. KLINGAMAN
DRAWN BY:	A. CHIODINI
CHECKED BY:	M. SANTOWASSO

FINAL DRAWINGS - ISSUED FOR CONSTRUCTION

NORTH CAROLINA PROFESSIONAL SEAL 18560 ENGINEER L. MICHAEL SANTOWASSO
Michael Santowasso 2026.10.22 14:25:54-04'00'

Hazen

HAZEN AND SAWYER
4011 WESTCHASE BLVD, SUITE 500
RALEIGH, NORTH CAROLINA 27607
LICENSE NO.: C-0381

GREENVILLE UTILITIES
GREENVILLE, NORTH CAROLINA

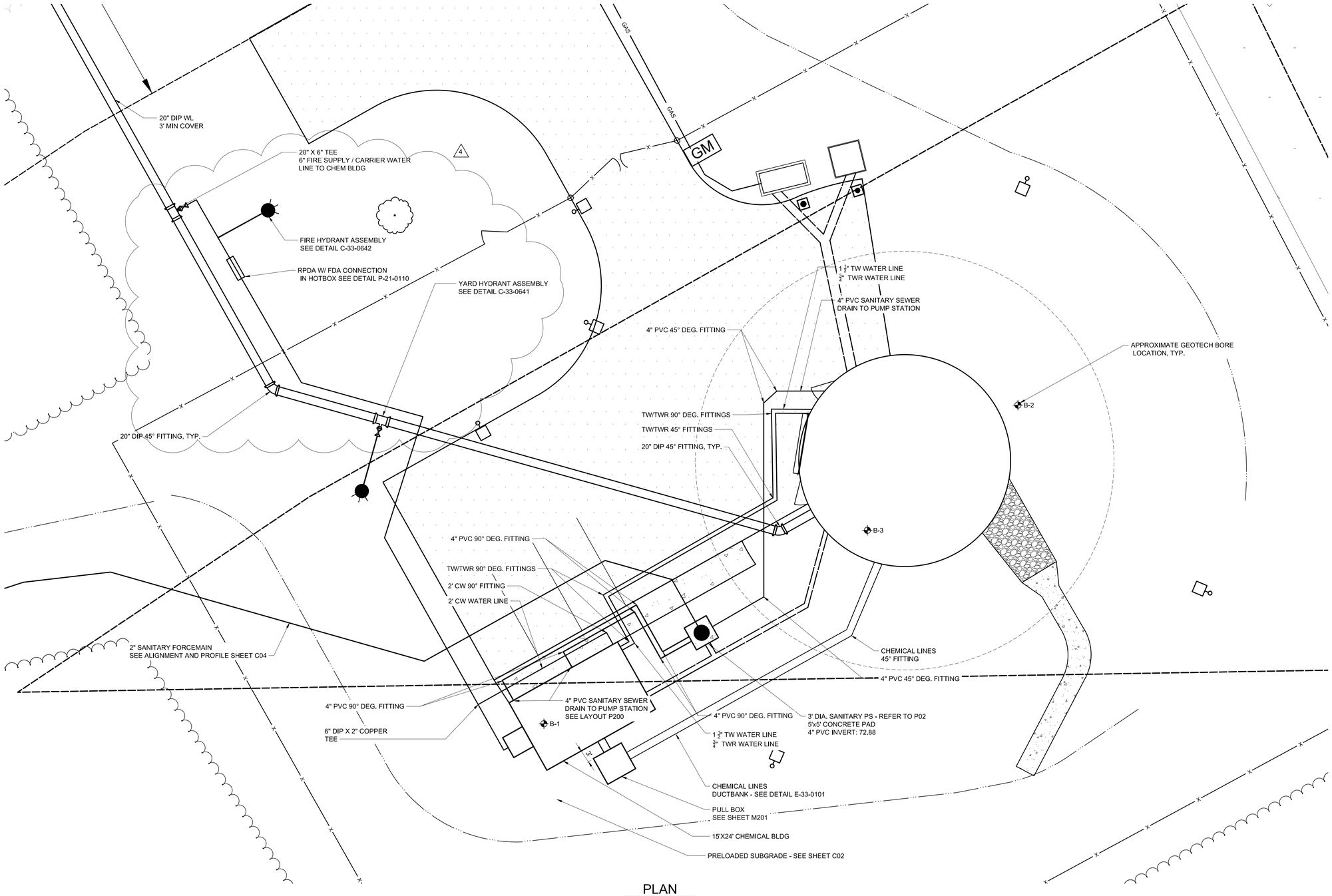
WESTSIDE ELEVATED STORAGE TANK

SITE

SITE PLAN

DATE:	SEPTEMBER 2026
HAZEN NO.:	31218-012
CONTRACT NO.:	1
DRAWING NUMBER:	C02

File: C:_DCACCDOCS\HAZEN AND SAWYER\31218-012\PROJECT FILES\1-DESIGN\01-HAZEN\CIVIL\C02 Saved by ACHIODINI Save date: 10/22/2026 1:54 PM
PLOT DATE: 10/22/2026 1:56 PM BY: ACHIODINI



PLAN
SCALE: 1" = 10'

N

NOTES:

1. CONTRACTOR SHALL PERFORM ANY ADDITIONAL GEOTECHNICAL EXPLORATIONS DEEMED NECESSARY BEYOND THE PROVIDED GEOTECHNICAL REPORT FOR THE COMPLETE TANK FOUNDATION DESIGN AND THE AUGER CAST PILE DESIGN AT NO ADDITIONAL COST TO THE OWNER.
2. SEE DETAIL ON SHEET C07 FOR TYPICAL CHEMICAL DUCTBANK DETAIL
3. LONG RADIUS BENDS SHALL BE USED FOR CHEMICAL CASING PIPE IN DUCTBANK AT ALL LOCATIONS WHERE BENDS ARE SHOWN
4. A MINIMUM OF 3 FEET OF COVER SHALL BE MAINTAINED FOR THE PROPOSED 20" DIP WATERLINE.

SCALE: 1" = 10'

10 5 0 10'

REV	ISSUED FOR	DATE	BY
4	ADDENDUM 1	10/2026	JBH
3	CONSTRUCTION	9/2026	JBH
2	REGULATORY REVIEW	5/2026	JBH
1	REGULATORY REVIEW	3/2026	JBH

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE 0 1/2" 1"

PROJECT ENGINEER:	J. HENNESSY
DESIGNED BY:	J. KLINGAMAN
DRAWN BY:	A. CHIODINI
CHECKED BY:	M. SANTOWASSO

FINAL DRAWINGS - ISSUED FOR CONSTRUCTION

NORTH CAROLINA PROFESSIONAL SEAL 18560 ENGINEER L. MICHAEL SANTOWASSO
Michael Santowasso 2026.10.22 14:25:26-04'00'

Hazen
HAZEN AND SAWYER
4011 WESTCHASE BLVD, SUITE 500
RALEIGH, NORTH CAROLINA 27607
LICENSE NO.: C-0381

GREENVILLE UTILITIES
GREENVILLE, NORTH CAROLINA

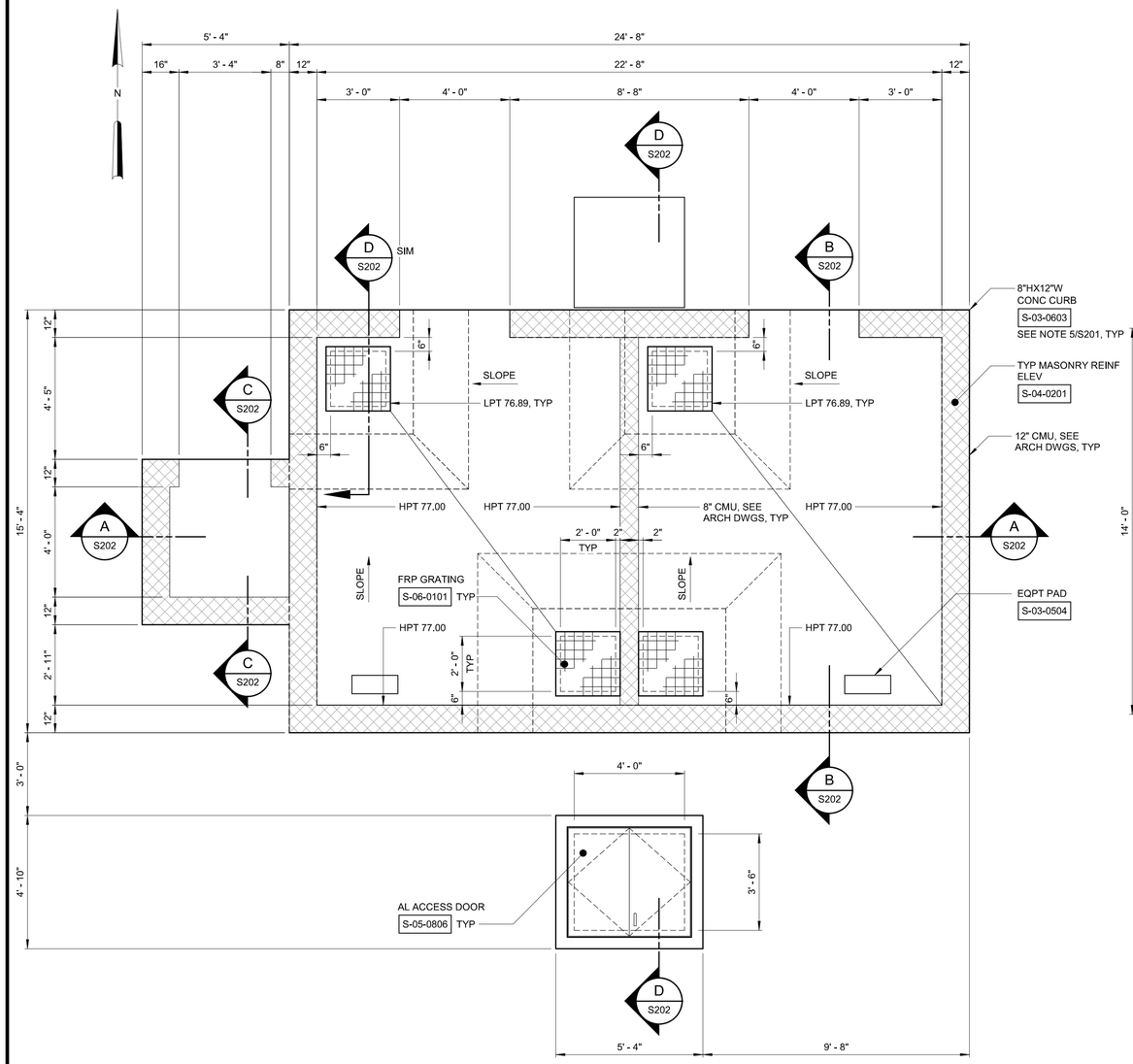
WESTSIDE ELEVATED STORAGE TANK

SITE

YARD PIPING PLAN

DATE:	SEPTEMBER 2026
HAZEN NO.:	31218-012
CONTRACT NO.:	1
DRAWING NUMBER:	C02A

File: C:_DOCACCDOCS\HAZEN AND SAWYER\31218-012\PROJECT FILES\1-DESIGN\01-HAZEN\CIVIL\C02 Saved by ACHIODINI Save date: 10/22/2026 1:54 PM
PLOT DATE: 10/22/2026 1:56 PM BY: ACHIODINI



BOTTOM PLAN

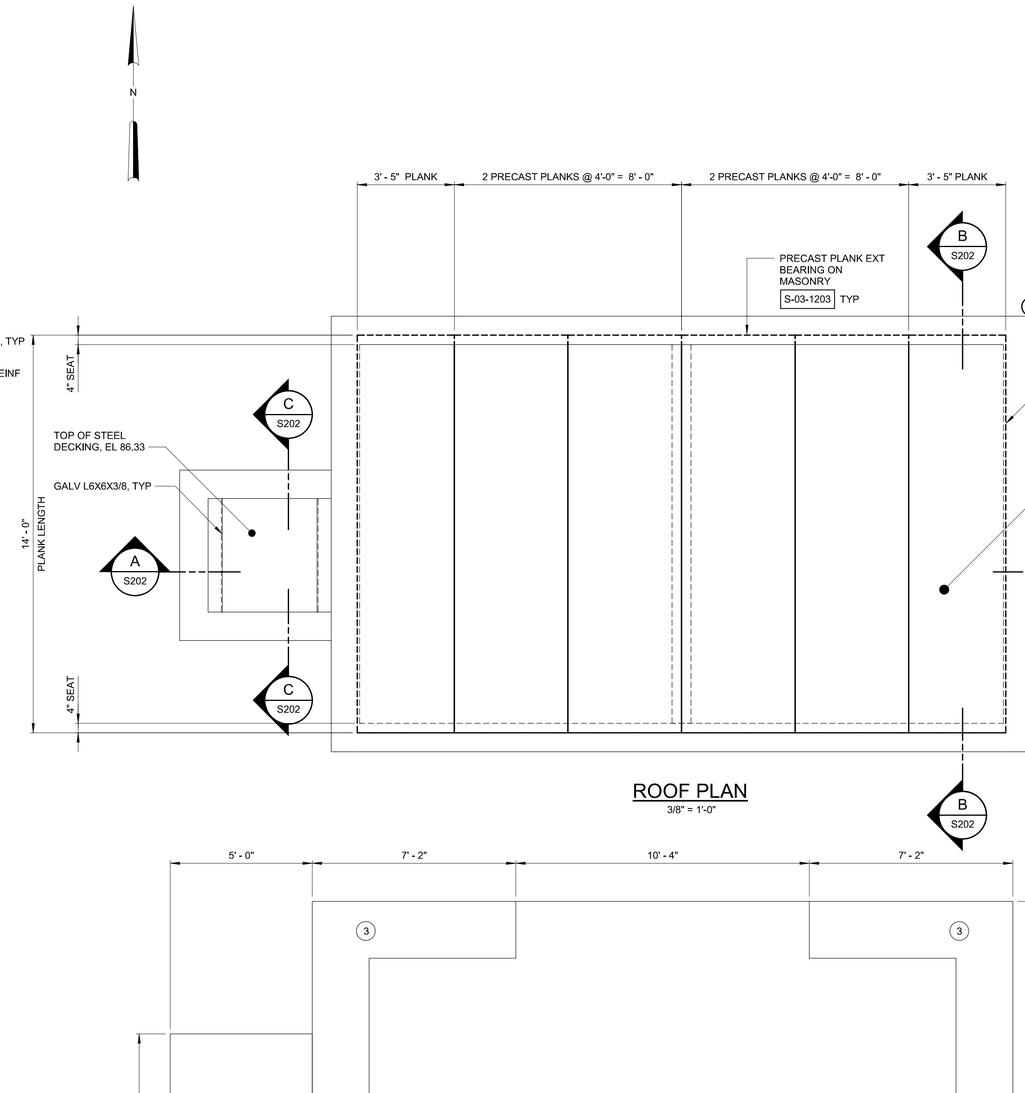
3/8" = 1'-0"

WIND PRESSURE ZONES OVER ROOF (PSF)		
ZONE	(-) WIND* PRESSURE	(+) WIND* PRESSURE
1	61.33	24.4
2	77.5	24.4
3	94.1	24.4

NOTES:
1. REFER TO ASCE 7-16 FIGURE 30.3-2A. ABOVE WIND PRESSURES ARE STRENGTH DESIGN LOADS.
2. POSITIVE LOADS ACT DOWNWARD. NEGATIVE LOADS ACT UPWARD
3. PRESSURES INDICATED FOR PLANKS APPLICABLE FOR COMPONENTS AND CLADDING WITH EFFECTIVE WIND AREA OF 50 SQ. FT THESE PRESSURES SHALL BE USED FOR THE DESIGN OF THE HOLLOW CORE PLANKS

WIND PRESSURE ZONE

1/4" = 1'-0"



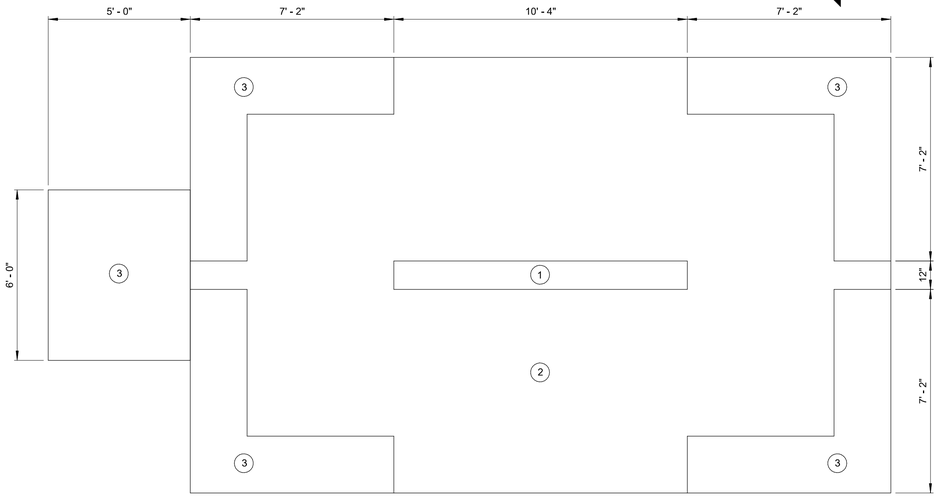
ROOF PLAN

3/8" = 1'-0"

NOTES:
1. 8" PRECAST HOLLOW-CORE PLANKS SHALL BE DESIGNED FOR SELF-WEIGHT PLUS THE FOLLOWING LOADS AND ANY ADDITIONAL LOADS SHOWN ON DRAWINGS.

   MISC DEAD = 15PSF
   ROOF LIVE = 20PSF
   SNOW = SEE LOADS ON S1
   WIND= SEE WIND DIAGRAM
2. SEE SPECIFICATION 03 41 13 FOR ADDITIONAL REQUIREMENTS OF HOLLOW-CORE PRECAST CONCRETE PLANK ROOF SYSTEM.
3. FOR DETERMINING NET WIND UPLIFT, USE A SUPERIMPOSED DEAD LOAD OF 10 PSF.
4. CONTRACTOR SHALL COORDINATE FINAL SIZE AND LOCATION OF EQUIPMENT PAD WITH EQUIPMENT MANUFACTURER'S.
5. CONCRETE CURB SHALL MATCH THE WIDTH OF CMU WALL AROUND PERIMETER OF BUILDING.
6. SEE CIVIL DRAWINGS FOR PRELOADING REQUIREMENTS.

4



ROOF LOAD DIAGRAM

3/8" = 1'-0"

REV	ISSUED FOR	DATE	BY
4	ADDENDUM 1	10/2026	JBH
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1	REGULATORY REVIEW	3/2026	JBH

PROJECT ENGINEER:	J. HENNESSY
DESIGNED BY:	J. HUBBARD
DRAWN BY:	E. DIVITO
CHECKED BY:	D. PERRY
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"

FINAL DRAWINGS - ISSUED FOR CONSTRUCTION

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 50994 JOSHUA S. HUBBARD

2026.10.21 15:56:33 04'00'

Hazen

HAZEN AND SAWYER
4011 WESTCHASE BLVD, SUITE 500
RALEIGH, NORTH CAROLINA 27607
LICENSE NO.: C-0381

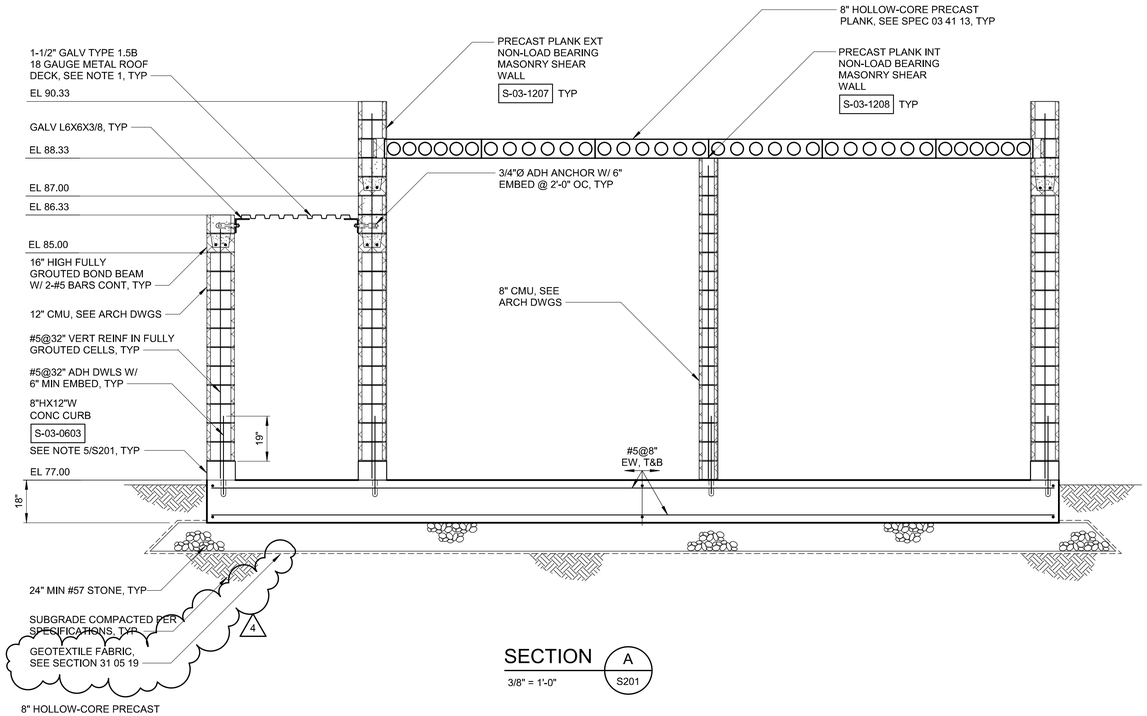
GREENVILLE UTILITIES
GREENVILLE, NORTH CAROLINA

WESTSIDE ELEVATED STORAGE TANK

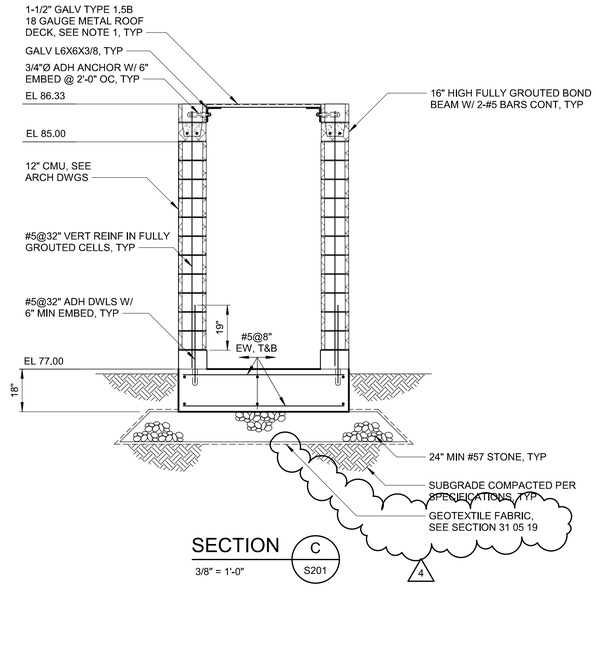
CHEMICAL BUILDING
STRUCTURAL
BOTTOM AND ROOF PLAN

DATE:	SEPTEMBER 2026
HAZEN NO.:	31218-012
CONTRACT NO.:	1
DRAWING NUMBER:	S201

Autodesk Docs://31218-012/31218-012-200-CB-S.rvt
10/21/2026 2:42:07 PM



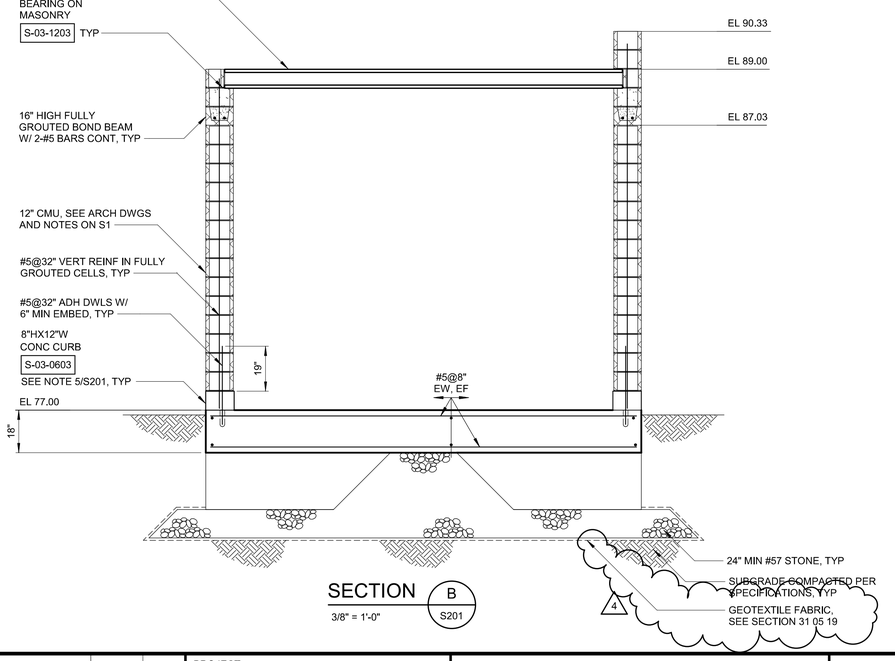
SECTION A
3/8" = 1'-0" S201



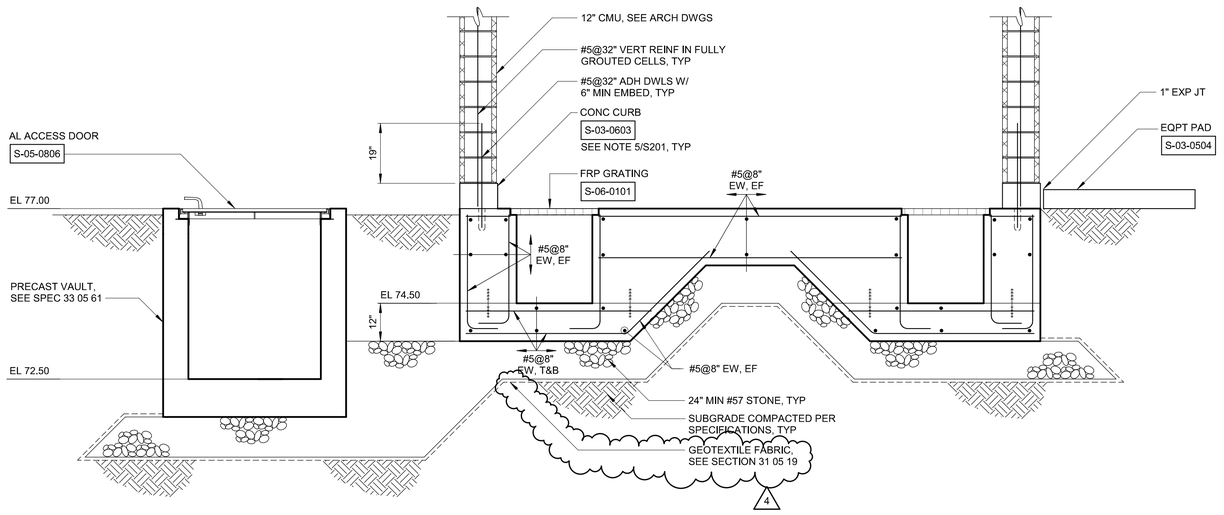
SECTION C
3/8" = 1'-0" S201

NOTES:

1. ROOF DECK SHALL BE FASTENED TO STRUCTURAL STEEL ANGLES WITH 5/8" PUDDLE WELDS ON A 36/4 PATTERN. SIDE LAPS SHALL BE FASTENED WITH 2-#10 TEK SCREWS PER SPAN.



SECTION B
3/8" = 1'-0" S201



SECTION D
1/2" = 1'-0" S201

REV	ISSUED FOR	DATE	BY
4	ADDENDUM 1	10/2026	JBH
3	CONSTRUCTION	9/2026	JBH
2	REGULATORY REVIEW	5/2026	JBH
1	REGULATORY REVIEW	3/2026	JBH

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE 0 1/2" 1"

PROJECT ENGINEER:	J. HENNESSY
DESIGNED BY:	J. HUBBARD
DRAWN BY:	E. DIVITO
CHECKED BY:	D. PERRY

FINAL DRAWINGS - ISSUED FOR CONSTRUCTION

NORTH CAROLINA PROFESSIONAL SEAL 50994 ENGINEER JOSHUA W. HUBBARD

2026.10.21 15:57:02-04'00'

Hazen

HAZEN AND SAWYER
4011 WESTCHASE BLVD, SUITE 500
RALEIGH, NORTH CAROLINA 27607
LICENSE NO.: C-0381

GREENVILLE UTILITIES
GREENVILLE, NORTH CAROLINA

WESTSIDE ELEVATED STORAGE TANK

CHEMICAL BUILDING STRUCTURAL SECTIONS

DATE:	SEPTEMBER 2026
HAZEN NO.:	31218-012
CONTRACT NO.:	1
DRAWING NUMBER:	S202

Autodesk Docs://31218-012/31218-012-200-CB-S.rvt
10/21/2026 2:42:08 PM

JOSH STEIN
Governor
D. REID WILSON
Secretary
RICHARD E. ROGERS, JR.
Director

NORTH CAROLINA
Environmental Quality

June 4, 2026

Greenville Utilities Commission
Attention: David Springer, Director of Water Resources
P.O. Box 1847
Greenville, North Carolina 27835

Re: Engineering Plans and Specifications Approval
Distribution Extension
GUC Westside Elevated Tank
GREENVILLE UTILITIES COMM
Water System No.: NC0474010
Pitt County
Serial No.: 26-00274

Dear Applicant:

Enclosed please find one copy of the "Application for Approval..." together with one copy of the referenced engineering plans and specifications bearing the Division of Water Resources stamp of approval for the referenced project. These engineering plans and specifications are approved under Division of Water Resources Serial Number 26-00274, dated June 4, 2026.

Engineering plans and specifications prepared by James B. Hennessy, P.E., call for the installation of one 1,500,000-gallon composite elevated water storage tank (83-feet diameter) with submersible mixer, 16-inch inlet, 20-inch diameter outlet pipe, 12-inch diameter overflow pipe, SCADA system, an adjacent two-room chemical building for as-needed dosing of liquid ammonium sulfate (LAS) and chlorine to maintain adequate disinfection residual, approximately 230 feet of 20-inch water main, valves, and appurtenances within utility easements located at 4401 Dickinson Avenue in the City of Greenville, Pitt County. The proposed 20-inch water main will connect to an existing 24-inch water main along Dickinson Avenue.

Please note that in accordance with 15A NCAC 18C .0309(a), no construction, alteration, or expansion of a water system shall be placed into service or made available for human consumption until the Public Water Supply Section has issued Final Approval. Final Approval will be issued and mailed to the applicant upon receipt of both an Engineer's Certification and an Applicant's Certification submitted in accordance with 15A NCAC 18C .0303 (a) and (c).

These plans and specifications in the foregoing application are approved insofar as the protection of public health is concerned as provided in the rules, standards and criteria adopted under the authority of Chapter 130A-317 of the General Statutes. This approval does not constitute a warranty of the design, construction, or future operation of the water system.

One copy of the "Application for Approval..." and a copy of the plans and specifications with a seal of approval from the department are enclosed. One copy of the approved documents in a digital format is being forwarded to our Washington Regional Office. Another copy is being retained in our records.

If the Public Water Supply Section can be of further service, please call (919) 707-9100.

Sincerely,

RBSadosky

Rebecca Sadosky, Ph.D., Chief
Public Water Supply Section
Division of Water Resources, NCDEQ

RS/JWH

Enclosures: Approval Document

cc: Jamie Midgette, P.E., Washington Regional Office
Pitt County Health Department
Hazen and Sawyer

JOSH STEIN
Governor
D. REID WILSON
Secretary
RICHARD E. ROGERS, JR.
Director

NORTH CAROLINA
Environmental Quality

June 04, 2026

GREENVILLE UTILITIES COMMISSION
ATTN: DAVID SPRINGER, DIRECTOR OF WATER RESOURCES
P.O. BOX 1847
GREENVILLE, NC 27835

Re: **Authorization to Construct (This is not a Final Approval)**
Issue Date: June 04, 2026
GUC WESTSIDE ELEVATED TANK
Serial No.: 26-00274 Water System No.: NC0474010
Pitt County

Dear Applicant:

This letter is to confirm that a complete Engineer's Report and a Water System Management Plan have been received, and that engineering plans and specifications have been approved by the Department for **GUC WESTSIDE ELEVATED TANK, Serial No.: 26-00274.**

The "Authorization to Construct" is valid for 36 months from the issue date. Authorization to construct may be extended if the Rules Governing Public Water Systems [15A NCAC 18C] and site conditions have not changed (see Rule .0305). The "Authorization to Construct" and the engineering plans and specifications approval letter shall be posted at the primary entrance of the job site before and during construction.

Upon completion of the construction or modification, **and prior to placing the new construction or modification into service**, the applicant must submit an Engineer's Certification and Applicant's Certification to the Public Water Supply Section.

- **Engineer's Certification:** in accordance with Rule .0303(a), the applicant shall submit a certification statement signed and sealed by a registered professional engineer stating that construction was completed in accordance with approved engineering plans and specifications, including any provisions stipulated in the Department's engineering plan and specification approval letter.
- **Applicant's Certification:** in accordance with Rule .0303(c), the applicant shall submit a signed certification statement indicating that the requirements for an Operation and Maintenance Plan and Emergency Management Plan have been satisfied in accordance with Rule .0307(d) and (e) and that the system has a certified operator in accordance with Rule .1300. The "Applicant's Certification" form is available at http://www.ncwater.org/ (click on Public Water Supply Section, Plan Review, Plan Review Forms).

Certifications can be sent by mail or attachment to an e-mail message to **PWSSection.PlanReview@deq.nc.gov.**

If this "Authorization to Construct" is for a new public water system, the owner must submit a completed **application for an Operating Permit** and the appropriate fee. For a copy of the application for an Operating Permit please call (919) 707-9076.

Once the certifications and permit application and fee (if applicable) are received and determined adequate, the Department will issue a Final Approval letter to the applicant. In accordance with Rule .0309(a), **no portion of this project shall be placed into service until the Department has issued Final Approval.**

Please contact us at (919) 707-9100 if you have any questions or need additional information.

Sincerely,

RBSadosky

Rebecca Sadosky, Ph.D., Chief
Public Water Supply Section
Division of Water Resources, NCDEQ

cc: JAMIE MIDGETTE, P.E., Regional Engineer
HAZEN AND SAWYER

North Carolina Department of Environmental Quality
Division of Water Resources

Authorization to Construct

Project Applicant:	**GREENVILLE UTILITIES COMMISSION**
Public Water System Name:	**GREENVILLE UTILITIES COMM**
Water System No.:	**NC0474010**
Project Name:	**GUC WESTSIDE ELEVATED TANK**
Serial No.:	**26-00274**
Issue Date:	**June 04, 2026**
Expiration Date:	36 Months after Issue Date

In accordance with 15A NCAC 18C .0305, this Authorization to Construct must be posted at the primary entrance to the job site during construction.

CERTIFICATE OF PLAN APPROVAL

The posting of this certificate certifies that an erosion and sedimentation control plan has been approved for this project by the North Carolina Department of Environmental Quality in accordance with North Carolina General Statute 113A – 57 (4) and 113A – 54 (d) (4) and North Carolina Administrative Code, Title 15A, Chapter 4B.0107 (c). This certificate must be posted at the primary entrance of the job site before construction begins and until establishment of permanent groundcover as required by North Carolina Administrative Code, Title 15A, Chapter 4B.0127 (b).

GUC - Elevated Storage Tank
4401 Dickinson Ave Greenville, NC 27834

08/20/2026	PITT-2026-00166
Date of Plan Approval	**Project Identifier**

Certificate of Coverage Number: _____

JOSH STEIN
Governor
D. REID WILSON
Secretary
WILLIAM E. TOBY VINSON, JR
Director

NORTH CAROLINA
Environmental Quality

August 20, 2026

LETTER OF APPROVAL

Greenville Utilities Commission
401 S Greene St
Greenville, NC 27834

RE: Project Name: GUC - Elevated Storage Tank
Permit Number: PITT-2026-00166
Acres Approved: 1.98
County: Pitt
City: Greenville
Address: 4401 Dickinson Ave
River Basin: Tar-Pamlico
Stream Classification: C: Aquatic Life, Secondary Contact Recreation, Fresh water; SW: Swamp Waters; NSW: Nutrient Sensitive Waters
Plan Type: New Plan – Construct Elevated Storage Tank and Gravel Access/Parking

Dear Greenville Utilities Commission,

This office has received and reviewed the subject erosion and sedimentation control plan. We find the plan to be acceptable and hereby issue this Letter of Approval. The enclosed Certificate of Approval must be posted at the job site. This plan shall expire three (3) years following the date of approval, if no land disturbing activity has been undertaken, as is required by Title 15A NCAC 4B .0129.

As of April 1, 2019, all new construction activities are required to complete and submit an electronic Notice of Intent (eNOI) form requesting a COC under the NCG010000 Construction Stormwater General Permit. You must apply for coverage by submitting a "Construction Stormwater – NCG01 (Subject to the SPCA) in the AccessDEQ Portal. Once your application is complete, you will receive an invoice for the $127 annual permit fee and can submit payment through the AccessDEQ Portal. Once the fee is processed and the application approved, you will receive the COC via email. As the Financially Responsible Party shown on the FRO form submitted for this project, you MUST obtain the COC prior to commencement of any land disturbing activity. Please direct questions about the eNOI form to the Stormwater Program staff in the Raleigh central office. If the owner/operator of this project changes in the future, the new responsible party must obtain a new COC.

North Carolina Department of Environmental Quality
Division of Energy, Mineral and Land Resources | Washington Regional Office
943 Washington Square Mall | Washington, North Carolina 27889
252.948.3800

Title 15A NCAC 4B .0118(a) and the NCG01 permit require that the following documentation be kept on file at the job site:

1. The approved E&SC plan as well as any approved deviation.
2. The NCG01 permit and the COC, once it is received.
3. Records of inspections made during the previous 12 months.

Also, this letter gives the notice required by G.S. 113A-61.1(a) of our right of periodic inspection to ensure compliance with the approved plan.

North Carolina's Sedimentation Pollution Control Act is performance-oriented, requiring protection of existing natural resources and adjoining properties. If, following the commencement of this project, the erosion and sedimentation control plan is inadequate to meet the requirements of the Sedimentation Pollution Control Act of 1973 (North Carolina General Statute 113A-51 through 66), this office may require revisions to the plan and implementation of the revisions to ensure compliance with the Act.

Acceptance and approval of this plan is conditioned upon your compliance with Federal and State water quality laws, regulations, and rules. In addition, local city or county ordinances or rules may also apply to this land-disturbing activity. This approval does not supersede any other permit or approval.

Please note that this approval is based in part on the accuracy of the information provided in the Financial Responsibility Form and on the plan which you provided. You are requested to file an amended form if there is any change in the information included on the form.

Your cooperation is appreciated.

Sincerely,

Ginger Turner

Ginger Y. Turner, PE for
Samir Dumpor, PE
Regional Engineer
Land Quality Section

General Comments

1. This permit allows for a land disturbance, as called for on the application plan, not to exceed **1.98** acres. Exceeding that acreage will be a violation of this permit and would require a revised plan and additional application fee. Land disturbance should be conducted in a manner to minimize land exposure. Any addition in impervious surface, over that already noted on the approved plan, would also require a revised plan to verify the appropriateness of the erosion control measures and stormwater retention measures (NCGS 113A-54.1(b)).

2. Additional measures may be required - the applicant is responsible for the control of sediment on-site. If the approved erosion and sedimentation control measures prove insufficient, the applicant must take those additional steps necessary to stop sediment from leaving this site (NCGS 113A-57(3); 15A NCAC 4B .0115). Each sediment storage device must be inspected after each storm event (NCGS 113A54.1(e)). Maintenance and/or clean out is necessary anytime the device is at 50% capacity. All sediment storage measures will remain on site and functional until all grading and final landscaping of the project is complete (15A NCAC 04B .0113).

3. The applicant is responsible for obtaining any and all permits and approvals necessary for the development of this project prior to the commencement of this land disturbing activity. This could include our agency's Stormwater regulations and the Division of Water Resources' enforcement requirements within Section 401 of the Clean Water Act, the U.S. Army Corps of Engineers' jurisdiction of Section 404 of the Clean Water Act, the Division of Coastal Management's CAMA requirements, the Division of Solid Waste Management's landfill regulations, the Environmental Protection Agency and/or The U.S. Army Corps of Engineers jurisdiction of the Clean Water Act, local County or Municipalities' ordinances, or others that may be required. This approval cannot supersede any other permit or approval; however, in the case of a Cease-and-Desist Order from the Corps of Engineers, that Order would only apply to wetland areas. All highlands would still have to be in compliance with the N.C. Sedimentation Pollution Control Act.

4. If any area on site falls within the jurisdiction of Section 401 or 404 of the Clean Water Act, the applicant is responsible for compliance with the requirements of the Division of Water Resources (DWR), the Corps of Engineers and the Environmental Protection Agency (EPA) respectively. Any erosion control measures that fall within jurisdictional wetland areas must be approved by the aforementioned agencies prior to installation. The Land Quality Section must be notified of a relocation of the measures in question to the transition point between the wetlands and the uplands to assure that the migration of sediment will not occur. If that relocation presents a problem or contradicts any requirements of either DWR, the Corps, or the EPA, it is the responsibility of the applicant to inform the Land Quality Section regional office so that an adequate contingency plan can be made to ensure sufficient erosion control remains on site. Failure to do so will be considered a violation of this approval (NCGS 113A-54.1(b)).

5. Any off-site borrow and waste required for this project must come from a site with an approved erosion control plan, a site regulated under the Mining Act of 1971, or a landfill regulated by the Division of Solid Waste Management. Trash/debris from demolition activities or generated by any activities on site must be disposed of at a facility regulated by the Division of Solid Waste Management or per Division of Solid Waste Management or Division of Water Resources rules and regulations. [15A NCAC 4B .0110]

6. A graveled construction entrance must be located at each point of access and egress available to construction vehicles during the grading and construction phases of this project. Access and egress from the project site at a point without a graveled entrance will be considered a violation of this approval. Routine maintenance of the entrances is critical (113A-54.1(b)).

7. If sediment traps and basins are shown on the plan as the primary sedimentation and erosion control devices on this project, it is necessary that the traps and basins and their collection systems be installed before any other grading takes place on site, and that every structure that receives more than one acre of drainage is built so that each dewaters only from the surface (NCG010000). If that proves to be impractical, a revised plan must be submitted and approved that addresses erosion and sediment control needs during the interim period until the traps and basins are fully functioning (113A-54.1(b)).

8. Any and all existing ditches on this project site are assumed to be left undisturbed by the proposed development unless otherwise noted. The removal of vegetation within any existing ditch or channel is prohibited unless the ditch or channel is to be regraded with side slopes of 2 horizontal to 1 vertical or less steep (15A NCAC 04B .0124 (d)). Bank slopes may be mowed but stripping of vegetation is considered new earth work and is subject to the same erosion control requirements as new ditches (NCGS 113A52(6)).

9. As a condition of the NPDES General Stormwater Permit (NCG010000), the financially responsible party shall comply with the NCG01 Ground Stabilization and Materials Handling requirements that became effective April 1, 2019. The NCG01 Ground Stabilization and Materials Handling standard detail can be printed from the deq.nc.gov/NCG01 website.

10. As a condition of the NPDES General Stormwater Permit (NCG010000), the financially responsible party shall comply with the NCG01 Self-Inspection, Recordkeeping and Reporting requirements that became effective April 1, 2019. The NCG01 Self-Inspection, Recordkeeping and Reporting standard details can be printed from the deq.nc.gov/NCG01 website.

11. As a part of routine monitoring of the approved land-disturbing activity, the financially responsible party shall ensure inspections of the area covered by the approved plan after each phase of the plan has been completed and after establishment of temporary ground cover in accordance with North Carolina General Statute 113A-54.1(e).

12. The NCG01 has a yearly fee and our office often receives closure inspection requests days prior to yearly NCG01 fee payment due dates. Be advised the project requires a closure inspection report by DEMLR prior to filing the Notice of Termination (NOT) to terminate NCG01 coverage. The closure inspection should not be requested until after the site has achieved full vegetative stabilization and measures have been removed. The removal of temporary ESC measures, including basins, requires prior approval. Often, a full growing season is necessary between initial seeding/mulching and removal of measures. Please plan your construction accordingly to avoid contacting our office prematurely for a closure inspection. Also be advised you may be asked for representative site pictures prior to a closure inspection.

E021-074-26-00857

ROUTE 13 / 264 ALT - Dickinson Avenue PROJECT _____ COUNTY OF Pitt STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

-AND-

Greenville Utilities Commission
P.O Box 1847
Greenville, NC 27835

RIGHT OF WAY ENCROACHMENT AGREEMENT - PRIMARY AND SECONDARY HIGHWAYS

THIS AGREEMENT, made and entered into this the 20th day of August 20 26 by and between the Department of Transportation, party of the first part; and Greenville Utilities Commission party of the second part,

WITNESSETH

THAT WHEREAS, the party of the second part desires to encroach on the right of way of the public road designated as Route(s) 13 / 264 ALT - Dickinson Avenue, located West of Brompton Lane to the intersection of Route 13 and Frog Level Road.

with the construction and/or erection of: A 340LF encroachment of 13 / 264 ALT - Dickinson Avenue ROW for a 2" sanitary sewer force main connecting the facilities at the GUC - Elevated Storage Tank to the nearest sanitary sewer manhole. See attached drawings.

WHEREAS, it is to the material advantage of the party of the second part to effect this encroachment, and the party of the first part in the exercise of authority conferred upon it by statute, is willing to permit the encroachment within the limits of the right of way as indicated, subject to the conditions of this agreement;

NOW, THEREFORE, IT IS AGREED that the party of the first part hereby grants to the party of the second part the right and privilege to make this encroachment as shown on attached plan sheet(s), specifications and special provisions which are made a part hereof upon the following conditions, to wit:

That the installation, operation, and maintenance of the above described facility will be accomplished in accordance with the party of the first part's latest UTILITIES ACCOMMODATIONS MANUAL, and such revisions and amendments thereto as may be in effect at the date of this agreement. Information as to these policies and procedures may be obtained from the Division Engineer or State Utilities Manager of the party of the first part.

That the said party of the second part binds and obligates himself to install and maintain the encroaching facility in such safe and proper condition that it will not interfere with or endanger travel upon said highway, nor obstruct nor interfere with the proper maintenance thereof, to reimburse the party of the first part for the cost incurred for any repairs or maintenance to its roadways and structures necessary due to the installation and existence of the facilities of the party of the second part, and if at any time the party of the first part shall require the removal of or changes in the location of the said facilities, that the said party of the second part binds himself, his successors and assigns, to promptly remove or alter the said facilities, in order to conform to the said requirement, without any cost to the party of the first part.

That the party of the second part agrees to provide during construction and any subsequent maintenance proper signs, signal lights, flagmen and other warning devices for the protection of traffic in conformance with the latest Manual on Uniform Traffic Control Devices for Streets and Highways and Amendments or Supplements thereto. Information as to the above rules and regulations may be obtained from the Division Engineer of the party of the first part.

That the party of the second part hereby agrees to indemnify and save harmless the party of the first part from all damages and claims for damage that may arise by reason of the installation and maintenance of this encroachment.

That the party of the second part agrees to restore all areas disturbed during installation and maintenance to the satisfaction of the Division Engineer of the party of the first part. The party of the second part agrees to exercise every reasonable precaution during construction and maintenance to prevent eroding of soil; silting or pollution of rivers, streams, lakes, reservoirs, other water impoundments, ground surfaces or other property; or pollution of the air. There shall be compliance with applicable rules and regulations of the North Carolina Division of Environmental Management, North Carolina Sedimentation Control Commission, and with ordinances and regulations of various counties, municipalities and other official agencies relating to pollution prevention and control. When any installation or maintenance operation disturbs the ground surface and existing ground cover, the party of the second part agrees to remove and replace the sod or otherwise reestablish the grass cover to meet the satisfaction of the Division Engineer of the party of the first part.

That the party of the second part agrees to assume the actual cost of any inspection of the work considered to be necessary by the Division Engineer of the party of the first part.

That the party of the second part agrees to have available at the construction site, at all times during construction, a copy of this agreement showing evidence of approval by the party of the first part. The party of the first part reserves the right to stop all work unless evidence of approval can be shown.

Provided the work contained in this agreement is being performed on a completed highway open to traffic; the party of the second part agrees to give written notice to the Division Engineer of the party of the first part when all work contained herein has been completed. Unless specifically requested by the party of the first part, written notice of completion of work on highway projects under construction will not be required.

That in the case of noncompliance with the terms of this agreement by the party of the second part, the party of the first part reserves the right to stop all work until the facility has been brought into compliance or removed from the right of way at no cost to the party of the first part.

That it is agreed by both parties that this agreement shall become void if actual construction of the work contemplated herein is not begun within one (1) year from the date of authorization by the party of the first part unless written waiver is secured by the party of the second part from the party of the first part.

During the performance of this contract, the second party, for itself, its assignees and successors in interest (hereinafter referred to as the "contractor"), agrees as follows:

a. Compliance with Regulations: The contractor shall comply with the Regulations relative to nondiscrimination in Federally-assisted programs of the U. S. Department of Transportation, Title 49, Code of Federal Regulations, Part 21, as they may be amended from time to time, (hereinafter referred to as the Regulations), which are herein incorporated by reference and made a part of this contract.

b. Nondiscrimination: The contractor, with regard to the work performed by it during the contract, shall not discriminate on the grounds of race, color, or national origin in the selection and retention of subcontractors, including procurements of materials

and leases of equipment. The contractor shall not participate either directly or indirectly in the discrimination prohibited by Section 21.5 of the Regulations, including employment practices when the contract covers a program set forth in Appendix B of the Regulations.

c. Solicitations for Subcontracts, including Procurements of Materials and Equipment: In all solicitations either by competitive bidding or negotiation made by the contractor for work to be performed under a subcontract, including procurements of materials or leases of equipment, each potential subcontractor or supplier shall be notified by the contractor of the contractor's obligations under this contract and the Regulations relative to nondiscrimination on the grounds of race, color, or national origin.

d. Information and Reports: The contractor shall provide all information and reports required by the Regulations, or directives issued pursuant thereto, and shall permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the Department of Transportation or the Federal Highway Administration to be pertinent to ascertain compliance with such Regulations or directives. Where any information required of a contractor is in the exclusive possession of another who fails or refuses to furnish this information, the contractor shall so certify to the Department of Transportation, or the Federal Highway Administration as appropriate, and shall set forth what efforts it has made to obtain the information.

e. Sanctions for Noncompliance: In the event of the contractor's noncompliance with the nondiscrimination provisions of this contract, the Department of Transportation shall impose such contract sanctions as it or the Federal Highway Administration may determine to be appropriate, including, but not limited to,

(1) withholding of payments to the contractor under the contract until the contractor complies, and/or
(2) cancellation, termination or suspension of the contract, in whole or in part.

f. Incorporation of Provisions: The contractor shall include the provisions of paragraphs "a" through "f" in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Regulations, or directives issued pursuant thereto. The contractor shall take such action with respect to any subcontract or procurement as the Department of Transportation or the Federal Highway Administration may direct as a means of enforcing such provisions including sanctions for noncompliance: Provided, however, that, in the event a contractor becomes involved in, or is threatened with, litigation with a subcontractor or supplier as a result of such direction, the contractor may request the Department of Transportation to enter into such litigation to protect the interests of the State, and, in addition, the contractor may request the United States to enter into such litigation to protect the interests of the United States.

R/W (161) : Party of the Second Part certifies that this agreement is true and accurate copy of the form R/W (161) incorporating all revisions to date.

IN WITNESS WHEREOF, each of the parties to this agreement has caused the same to be executed the day and year first above written.

DEPARTMENT OF TRANSPORTATION

Signed by: Robby L Taylor District Engineer
FE1BFCED479F487...

BY: _____

For: DIVISION ENGINEER

ATTEST OR WITNESS:

Amy Wade

Amy Wade, Executive Secretary

Greenville Utilities Commission

GREENVILLE UTILITIES COMMISSION Established 1905 OFFICIAL SEAL Greenville, North Carolina

Anthony Cannon, General Manager/CEO

Greenville Utilities Commission

Second Party

INSTRUCTIONS

When the applicant is a corporation or a municipality, this agreement must have the corporate seal and be attested by the corporation secretary or by the empowered city official, unless a waiver of corporate seal and attestation by the secretary or by the empowered City official is on file in the Raleigh office of the State Utilities Manager. In the space provided in this agreement for execution, the name of the corporation or municipality shall be typed above the name, and title of all persons signing the agreement should be typed directly below their signature.

When the applicant is not a corporation, then his signature must be witnessed by one person. The address should be included in this agreement and the names of all persons signing the agreement should be typed directly below their signature.

This agreement must be accompanied, in the form of an attachment, by plans or drawings showing the following applicable information:

1. All roadways and ramps.
2. Right of way lines and where applicable, the control of access lines.
3. Location of the existing and/or proposed encroachment.
4. Length, size and type of encroachment.
5. Method of installation.
6. Dimensions showing the distance from the encroachment to edge of pavement, shoulders, etc.
7. Location by highway survey station number. If station number cannot be obtained, location should be shown by distance from some identifiable point, such as a bridge, road, intersection, etc. (To assist in preparation of the encroachment plan, the Department's roadway plans may be seen at the various Highway Division Offices, or at the Raleigh office.)
8. Drainage structures or bridges if affected by encroachment (show vertical and horizontal dimensions from encroachment to nearest part of structure).
9. Method of attachment to drainage structures or bridges.
10. Manhole design.
11. On underground utilities, the depth of bury under all traveled lanes, shoulders, ditches, sidewalks, etc.
12. Length, size and type of encasement where required.
13. On underground crossings, notation as to method of crossing - boring and jacking, open cut, etc.
14. Location of vents.

GENERAL REQUIREMENTS

1. Any attachment to a bridge or other drainage structure must be approved by the State Utilities Manager in Raleigh prior to submission of encroachment agreement to the Division Engineer.
2. All crossings should be as near as possible normal to the centerline of the highway.
3. Minimum vertical clearances of overhead wires and cables above all roadways must conform to clearances set out in the National Electric Safety Code.
4. Encasements shall extend from ditch line to ditch line in cut sections and 5' beyond toe of slopes in fill sections.
5. All vents should be extended to the right of way line or as otherwise required by the Department.
6. All pipe encasements as to material and strength shall meet the standards and specifications of the Department.
7. Any special provisions or specifications as to the performance of the work or the method of construction that may be required by the Department must be shown on a separate sheet attached to encroachment agreement provided that such information cannot be shown on plans or drawings.
8. The Department's Division Engineer should be given notice by the applicant prior to actual starting of installation included in this agreement.

Pre-Construction

Contact Offices & Outside Agency issues / Contacts / Info.

1. Approval may be rescinded upon failure to follow any of the provisions in this permit and may be considered a violation of the encroachment agreement.

2. The Encroaching party or their contractor shall provide the following notices prior to construction activity within the NCDOT Right of Way:
    a. Three (3) business days advance phone call at telephone (252) 623-5300 or email to D2D1notifications@ncdot.gov to the District Engineer's office
    b. If the construction falls within the limits of an NCDOT managed construction project, five (5) business days advance phone call to the Division Utility Engineer, Mr. David Kramer at (252) 649-6500 or email to dpkramer@ncdot.gov.

    Failure to provide these notifications prior to beginning construction is subject to the Division Engineer's discretion to cease construction activity for this encroachment. NCDOT reserves the right to cease any construction or maintenance work associated with this installation by the encroaching party until the construction or maintenance meets the satisfaction of the Division Engineer or their representative.

3. Prior to beginning work, it is the requirement of the Encroaching Party to contact the appropriate Utility Companies involved and make arrangements to adjust or relocate any utilities that conflict with the proposed work.

4. It shall be the responsibility of the encroaching party to determine the location of utilities within the encroachment area. NCGS § 87-115 through § 87-130 of the Underground Utility Safety and Damage Prevention Act requires underground utilities to be located by calling 811 prior to construction. The encroaching party shall be responsible for notifying other utility owners and providing protection and safeguards to prevent damage or interruption to existing facilities and maintain access to them.

5. The encroaching party shall notify the appropriate municipal office prior to beginning any work within the municipality's limits of jurisdiction.

6. Excavation within 1000 feet of a signalized intersection will require notification by the encroaching party to the Division Traffic Engineer at telephone number (252) 439-2829 no less than one week prior to beginning work. All traffic signal or detection cables must be located prior to excavation. Cost to replace or repair NCDOT signs, signals, pavement markings or associated equipment and facilities shall be the responsibility of the encroaching party.

7. At the option of the District Engineer, a preconstruction meeting including representatives of NCDOT, the encroaching party, contractors and municipality, if applicable, shall be required. A pre-construction conference held between a municipality (or other facility owner) and a contractor without the presence of NCDOT personnel with subsequent construction commencing may be subject to NCDOT personnel ceasing any work on NCDOT right-of-way related to this encroachment until such meeting is held. Contact the District office to schedule.

8. At the discretion of the District Engineer, a NOTIFICATION FOR UTILITY / NON-UTILITY ENCROACHMENT WITHIN NCDOT R/W form (See corresponding attachment) with the scheduled pre-construction meeting and associated construction schedule details must be completed and submitted to the District Engineer's office a minimum of one week prior to construction.

9. At the discretion of the District Engineer, the encroaching party (not the utility contractor) shall make arrangements to have a qualified inspector, under the supervision of a Professional Engineer registered in North Carolina, on site at all times during construction. The registered Professional Engineer shall be required to submit a signed and PE sealed certification that the utility was installed in accordance with the encroachment agreement.

Legal & Right-of-Way Issues

10. This approval and associated plans and supporting documents shall not be interpreted to allow any design change or change in the intent of the design by the Owner, Design Engineer, or any of their representatives. Any revisions or changes to these approved plans or intent for construction must be obtained in writing from the Division Engineer's office or their representative prior to construction or during construction if an issue arises during construction to warrant changes.

11. NCDOT does not guarantee the right of way on this road, nor will it be responsible for any claim for damages brought about by any property owner by reason of this installation. It is the responsibility of the encroaching party to verify the right of way.

12. Encroaching party shall be responsible for obtaining all necessary permanent and/or temporary construction, drainage, utility and/or sight distance easements.

13. All Right of Way and easements necessary for construction and maintenance shall be dedicated to NCDOT with proof of dedication furnished to the District Engineer prior to beginning work.

14. No commercial advertising shall be allowed within NCDOT Right of Way.

15. The encroaching party shall obtain proper approval from all affected pole owners prior to attachment to any pole.

16. This agreement does not authorize installations within nor encroachment onto railroad rights of way. Permits for installations within railroad right of way must be obtained from the railroad and are the responsibility of the encroaching party.

Work Zone Traffic

17. Traffic control shall be coordinated with the District Engineer at (252) 623-5300 and the Division Traffic Engineer at telephone (252) 439-2829, prior to construction.

18. <u>WORK ZONE TRAFFIC CONTROL QUALIFICATIONS AND TRAINING PROGRAM</u>

    All personnel performing any activity inside the highway right of way are required to be familiar with the NCDOT Maintenance / Utility Traffic Control Guidelines (MUTCG). No specific training course or test is required for qualification in the Maintenance /Utility Traffic Control Guidelines (MUTCG).

    All flagging, spotting, or operating Automated Flagger Assist Devices (AFAD) inside the highway right of way requires qualified and trained Work Zone Flaggers. Training for this certification is provided by NCDOT approved training resources and by private entities that have been pre-approved to train themselves.

    All personnel involved with the installation of Work Zone Traffic Control devices inside the highway right of way are required to be qualified and trained Work Zone Installers. Training for this

certification is provided by NCDOT approved training resources and by private entities that have been pre-approved to train themselves.

All personnel in charge of overseeing work zone Temporary Traffic Control operations and installations inside the highway right of way are required to be qualified and trained Work Zone Supervisors. Training for this certification is provided by NCDOT approved training resources and by private entities that have been pre-approved to train themselves.

For questions and/or additional information regarding this training program please refer to https://connect.ncdot.gov/projects/WZTC/Pages/Training.aspx or call the NCDOT Work Zone Traffic Control Section (919) 814-5000.

19. The party of the second part shall employ traffic control measures that are in accordance with the prevailing federal, state, local, and NCDOT policies, standards, and procedures. These policies, standards, and procedures include, but are not limited to the following:
    a. Manual on Uniform Traffic Control Devices (MUTCD) – North Carolina has adopted the MUTCD to provide basic principles and guidelines for traffic control device design, application, installation, and maintenance. North Carolina uses the MUTCD as a minimum requirement where higher supplemental standards specific to North Carolina are not established. Use fundamental principles and best practices of MUTCD (Part 6, Temporary Traffic Control).
    b. NCDOT Maintenance / Utility Traffic Control Guidelines – This document enhances the fundamental principles and best practices established in MUTCD Part 6, Temporary Traffic Control, incorporating NCDOT-specific standards and details. It also covers important safety knowledge for a wide range of work zone job responsibilities.

20. If the Traffic Control Supervisor determines that portable concrete barrier (PCB) is required to shield a hazard within the clear zone, then PCB shall be designed and sealed by a licensed North Carolina Professional Engineer. PCB plans and design calculations shall be submitted to the District Engineer for review and approval prior to installation.

21. Ingress and egress shall be maintained to all businesses and dwellings affected by the project. Special attention shall be paid to police, EMS and fire stations, fire hydrants, secondary schools, and hospitals.

22. Traffic shall be maintained at all times. All lanes of traffic are to be open during the hours of 7:00 A.M. to 9:00 A.M. and from 4:00 P.M. to 6:00 P.M. Monday through Friday, during any time of inclement weather, **or as directed by the District Engineer**. If the location of work calls for a rolling roadblock on Interstates and divided highway US routes, the restriction is to work only on Sunday from 1:00 A.M. to 10:00 A.M, **or as Directed by the District Engineer**. Any violation of these hours will result in ceasing any further construction by the Encroaching Party or their contractor.

23. Nighttime and weekend operations will NOT be allowed unless written approval is received from the District Engineer. If nighttime or weekend work is allowed or required, all signs must be retro-reflective, and a work zone lighting plan must be submitted for approval prior to construction.

24. Two-way traffic shall be maintained at all times unless designated by the District Engineer. Traffic shall not be rerouted or detoured without the prior written approval from the District Engineer. No utility work will be allowed on state holidays from 7:00 PM the night before through 9:00 AM the day prior to, following or during local events without prior approval from the District Engineer. If the construction is within 1000 feet of a school location or on a designated bus route, the construction shall be coordinated with the school start and end times to avoid traffic delays.

25. Work requiring lane or shoulder closures shall not be performed on both sides of the road simultaneously within the same area.

26. Any work requiring equipment or personnel within 5 feet of the edge of any travel lane of an undivided facility and within 10 feet of the edge of any travel lane of a divided facility shall require a lane closure with appropriate tapers per current *NCDOT Roadway Standard Drawings or MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.*

27. At the discretion of the District Engineer, a traffic control plan shall be developed and submitted under the seal and signature of a Licensed North Carolina Professional Engineer prior to construction. The plan shall be specific to the site and adequately detailed. Issues such as the close proximity to intersections shall be addressed.

28. Temporary and final pavement markings are the responsibility of the encroaching party. Final pavement markings and sign plans shall be submitted with the encroachment request to the Division Traffic Engineer prior to construction. Final pavement markings shall be thermoplastic unless otherwise directed by the Division Traffic Engineer or District Engineer.

29. Any pavement markings that are damaged or obliterated shall be restored by the encroaching party at no expense to NCDOT.

30. Sidewalk closures shall be installed as necessary. Pedestrian traffic shall be detoured around these closures and shall be signed appropriately and in accordance with The American with Disabilities Act Accessibility Guidelines. The encroaching party must adhere to the guidelines for accommodating pedestrians in encroachment work zones as described in the NCDOT Pedestrian Work Zone Accommodations Training found at https://www.youtube.com/watch?v=AOuYa5IW3dg&feature=youtu.be

Roadside Environmental

31. The encroaching party shall comply with all applicable Federal, State and local environmental regulations and shall obtain all necessary Federal, State and local environmental permits, including but not limited to, those related to sediment control, stormwater, wetland, streams, endangered species and historical sites. Additional information can be obtained by contacting the NCDOT Roadside Environmental Engineer regarding the North Carolina Natural Heritage Program or the United States Fish and Wildlife Services. Contact the Division Roadside Environmental Engineer's Office at (252) 439-2939.

32. When surface area in excess of one acre will be disturbed, the Encroacher shall submit a Sediment and Erosion Control Plan which has been approved by the appropriate regulatory agency or authority prior to beginning any work on the Right of Way. Failure to provide this information shall be grounds for suspension of operations. Proper temporary and permanent measures shall be used to control erosion and sedimentation in accordance with the approved sediment and erosion control plan.

33. The Verification of Compliance with Environmental Regulations (VCER-1) form is required for all non-utility encroachment agreements or any utility encroachments when land disturbance within NCDOT right of way exceeds 1 acre. When required, the VCER-1 form must be PE sealed by a NC registered professional engineer who has verified that all appropriate environmental permits (if applicable) have been obtained and all applicable environmental regulations have been followed.

34. All erosion control devices and measures shall be constructed, installed, maintained, and removed by the Encroacher in accordance with all applicable Federal, State, and Local laws, regulations,

ordinances, and policies. Permanent vegetation shall be established on all disturbed areas in accordance with the recommendations of the Division Roadside Environmental Engineer. All areas disturbed (shoulders, ditches, removed accesses, etc.) shall be graded and seeded in accordance with the latest *NCDOT Standards Specifications for Roads and Structures* and within 15 calendar days with an approved NCDOT seed mixture (all lawn type areas shall be maintained and reseeded as such). Seeding rates per acre shall be applied according to the Division Roadside Environmental Engineer. Any plant or vegetation in the NCDOT planted sites that is destroyed or damaged as a result of this encroachment shall be replaced with plants of like kind or similar shape.

35. No trees within NCDOT right of way shall be cut without authorization from the Division Roadside Environmental Engineer. An inventory of trees measuring greater than 4 caliper inches (measured 6" above the ground) is required when trees within C/A right of way will be impacted by the encroachment installation. Mitigation is required and will be determined by the Division Roadside Environmental Engineer's Office.

36. Prior to installation, the Encroaching Party shall contact the District Engineer to discuss any environmental issues associated with the installation to address concerns related to the root system of trees impacted by boring or non-utility construction of sidewalk, roadway widening, etc.

37. The applicant is responsible for identifying project impacts to waters of the United States (wetlands, intermittent streams, perennial streams and ponds) located within the NCDOT right-of-way. The discharge of dredged or fill material into waters of the United States requires authorization from the United States Army Corps of Engineers (USACE) and certification from the North Carolina Division of Water Quality (NCDWQ). The applicant is required to obtain pertinent permits or certification from these regulatory agencies if construction of the project impacts waters of the United States within the NCDOT right-of-way. The applicant is responsible for complying with any river or stream Riparian Buffer Rule as regulated by the NCDWQ. The Rule regulates activity within a 50-foot buffer along perennial streams, intermittent streams and ponds. Additional information can be obtained by contacting the NCDWQ or the USACE.

38. The contractor shall not begin the construction until after the traffic control and erosion control devices have been installed to the satisfaction of the Division Engineer or their agent.

39. The contractor shall perform all monitoring and record keeping and any required maintenance of erosion and sediment control measures to maintain compliance with stormwater regulations.

Bonds

40. A Performance and Indemnity Bond in the amount of $x,xxx.xx shall be posted with the District Engineer's Office by the Party of the Second Part prior to beginning any work within the NCDOT Right of Way. The bond shall be held for a minimum of one year after a satisfactory final inspection of the installation by NCDOT. The bond may be held for a period longer than one year after completion if, in the opinion of NCDOT, the size or complexity of the installation warrants a longer period.

41. The release of the bond is subject to a final inspection by NCDOT. Contact the District office to schedule a Final Inspection and to request release of the bond.

42. When a Continuing Indemnity bond is on file with the central Raleigh office, the cashing of that bond may be used to fund any necessary repairs by NCDOT forces for unaddressed defects in workmanship by the encroaching party and/or by their contractor.

Control of Access

43. No access to the job site, parking or material storage shall be allowed along or from the **Control of Access Roadway.**

44. The installation within the Control of Access fence shall not adversely affect the design, construction, maintenance, stability, traffic safety or operation of the controlled access highway, and the utility must be serviced without access from the through-traffic roadways or ramps.

45. The resetting of the Control of Access fence shall be in accordance with the applicable NCDOT standard and as directed by the Division Engineer or their representative.

Contract Managed Interstates & Toll Routes

46. This installation is within the NCDOT Division 02 Interstate Corridor right of way. The encroaching party shall notify the following at least ten (10) business days prior to beginning construction: NCDOT Division 02 Interstate Maintenance: Division Maintenance Engineer or by phone at (252) 775-6100.

STIP (or Division Managed) Projects

47. State Transportation Improvement Project (STIP) X-XXXX is scheduled for future construction. Any encroachment determined to be in conflict with the construction of this NCDOT project shall be removed and/or relocated at the encroaching party's expense.

Construction

General

48. An executed copy of the encroachment agreement, provisions and approved plans shall be present at the construction site at all times. If safety or traffic conditions warrant such an action, NCDOT reserves the right to further limit, restrict or suspend operations within the right of way.

49. If the approved method of construction is unsuccessful and other means are required, prior approval must be obtained through the District Engineer before construction may continue.

50. Any REVISIONS marked in RED on the attached non-PE sealed plans shall be incorporated into and made part of the approved encroachment agreement.

51. All disturbed areas are to be fully restored to current NCDOT minimum roadway standards or as directed by the Division Engineer or their representative. Disturbed areas within NCDOT Right-of-Way include, but not limited to, any excavation areas, pavement removal, drainage or other features.

52. The encroaching party shall notify the Division Engineer or their representative immediately in the event any drainage structure is blocked, disturbed or damaged. All drainage structures disturbed, damaged or blocked shall be restored to its original condition as directed by the Division Engineer or their representative.

53. A minimum of 5 feet clearance is required for utility installations beneath or near drainage pipes, headwalls, and a minimum of two-foot clearance below the flowline of streams. If directional drilling, a minimum ten-foot clearance distance is required from drainage structures and a minimum of 5 feet below flowline of streams.

54. At points where the utility is placed under existing storm drainage, the trench will be backfilled with excavatable flowable fill up to the outside diameter of the existing pipe.

55. Unless specified otherwise, during non-working hours, equipment shall be located away from the job site or parked as close to the right of way line as possible and be properly barricaded in order not to have any equipment obstruction within the Clear Zone. Also, during non-working hours, no parking or material storage shall be allowed along the shoulders of any state-maintained roadway.

56. The Encroaching Party and/or their Contractor shall comply with all OSHA requirements. If OSHA visits the work area associated with this encroachment, the District Office shall be notified by the encroaching party immediately if any violations are cited.

57. Any guardrail removed or damaged during construction shall be replaced or repaired to its original condition, meeting current NCDOT standards or as directed by the Division Engineer or their representative.

58. Right of Way monuments disturbed during construction shall be referenced by a registered Land Surveyor and reset after construction.

59. All Traffic signs moved during construction shall be reinstalled as soon as possible to the satisfaction of the Division Engineer or their representative.

60. Detection tape, where required by NCGS § 87-115 through § 87-130 of the Underground Utility Safety and Damage Prevention Act, shall be buried in the trench approximately 1 foot above the installed facility. Where conduit is installed in the right of way and is not of ferrous material, locating tape or detection wire shall be installed with the conduit.

61. All driveways disturbed during construction shall be returned to a state comparable with the condition of the driveways prior to construction.

62. Conformance with driveway permit review should be required in conjunction with this encroachment agreement. In the event there is a conflict between the driveway permit and the encroachment agreement, the District Engineer should resolve the conflict and notify the parties involved.

Engineering

63. All traffic control, asphalt mixes, structures, construction, workmanship and construction methods, and materials shall be in compliance with the most-recent versions of the following resources: *ASTM Standards*, *Manual on Uniform Traffic Control Devices, NCDOT Utilities Accommodations Manual, NCDOT Standard Specifications for Roads and Structures, NCDOT Roadway Standard Drawings,* NCDOT *Asphalt Quality Management System* manual, **and the approved plans.**

64. Regulator stations, metering stations, cathodic test stations, and anode beds are not permitted within NCDOT right of way. Header wires are permitted.

65. Non-Utility Communication and Data Transmission installations (ground mounted type or Small Cell pole-mounted type) must adhere to guidelines in the Utilities Accommodations Manual and, when

located within municipal jurisdictions, are subject to review and approval by municipal ordinances and any additional municipal approval for proximity to historic districts and landmarks. All wiring and related telecommunications work shall conform to the latest regulations by the Federal Communications Commission.

66. All wiring and related electrical work shall conform to the latest edition of the National Electrical Safety Code.

67. Prior approval for any blasting must be obtained from the Division Engineer or their representative.

Location within R/W

68. All utility access points, such as manholes, vaults, handholes, splice boxes and junction boxes shall be located as close to the right of way line as possible and shall not be placed in the ditch line, side slopes of the ditches or in the pavement. All manholes, handholes, splice boxes, junction boxes and vaults and covers shall be flush with the ground when located within the vehicle clear zone. Slack loops for telecommunications in industry standard housing units shall be buried a minimum of 18 inches when buried or meet minimum NCDOT vertical and horizontal clearances when installed aerially.

69. Any utility markers, cabinets, pedestals, meter bases and services for meter reading required shall be as close to the Right of Way line as possible. If it is not feasible to install at or near Right of Way line, then written approval shall be obtained from NCDOT prior to installation.

70. Fire Hydrants shall be of the breakaway type. Hydrants shall be placed near the right of way line. In curb and gutter sections with written approval from the District, the hydrants may be placed at 6' behind the back of the curb or minimum 2’ back of sidewalk.

71. Hot box (aka ASSE 1060) or Safe-T-Cover type enclosures covering utility main pipe joints, backflow preventers, valves, vent pipes, cross connections, pumps, grinders, irrigation assemblies, transformers, generators, and other similar large appurtenances shall be located outside sight distance triangles and off of the NCDOT Right-of-Way.

72. Sprinkler heads shall be located a minimum of 10 feet from the edge of pavement, edge of shoulder, or back of curb whichever is greater and shall be directed so that water does not spray or drain on the roadway surface, sidewalk, or passing vehicles at any time. Upon completion of the installation and prior to activation of the system, the Encroacher shall contact the District Engineer to schedule a test of the system to verify the spray pattern. Sprinkler systems shall not be operated during periods of high wind or freezing weather, or to the extent that the subgrade adjacent to the pavement structure becomes saturated. NCDOT reserves the right to require immediate termination and removal of any sprinkler system which in its judgement and opinion adversely affects safety, maintenance, or operation of the roadway.

73. Luminaire and/or utility poles and guy wires shall be set as close to the Right of Way line as practical and outside the Clear Zone in accordance with the latest version of the AASHTO Roadside Design Guide (See corresponding attachment) or made breakaway in accordance with the requirements of NCHRP Report 350. Any relocation of the utility poles from the original design due to Clear Zone requirements shall require a re-submittal for the utility design.

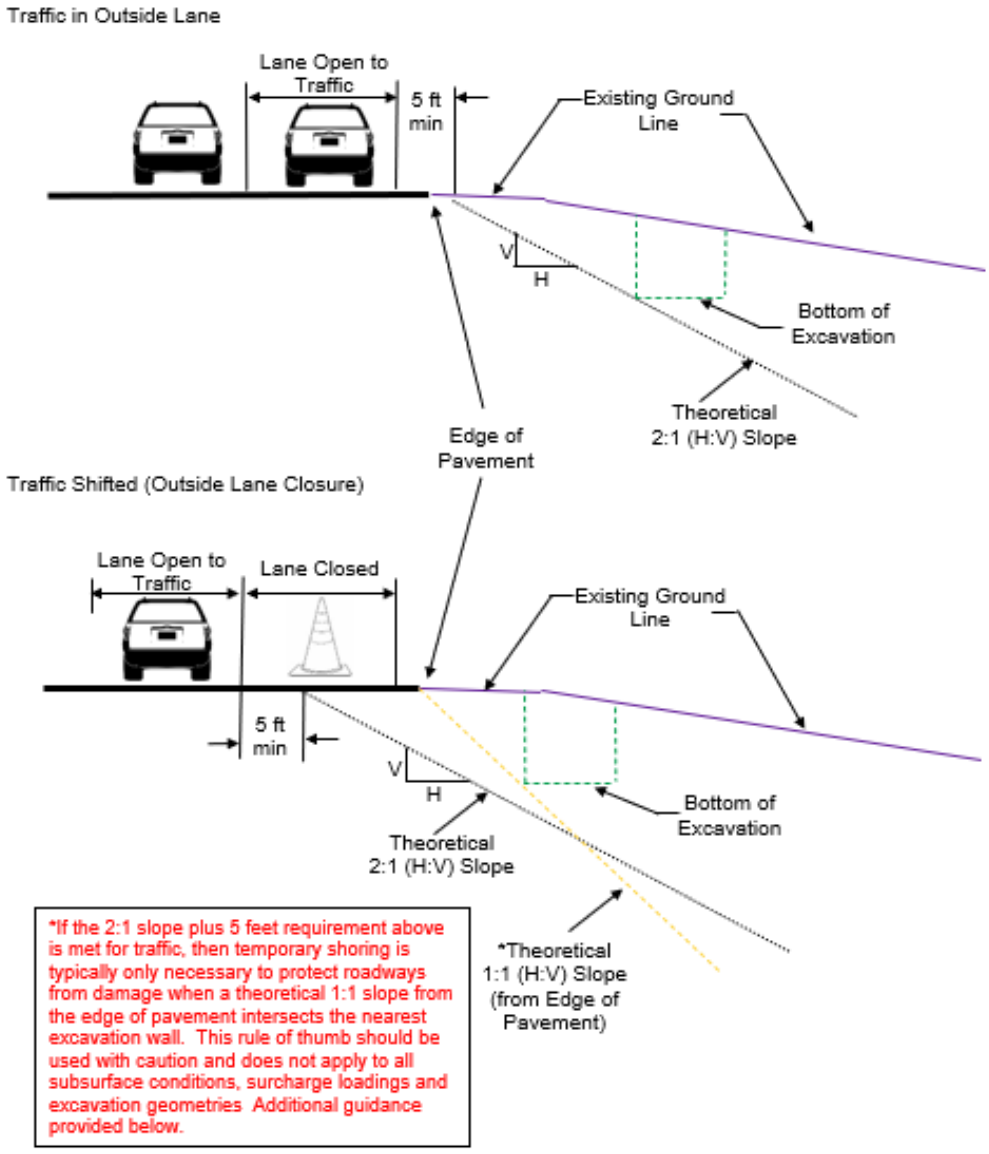
74. Luminaire and/or utility poles shall be set a minimum of 5’-6” behind face of any guardrail or otherwise sufficiently protected. However, standard placement may be reduced to 3’-6” behind face of guardrail when posts are spaced 3’-1 ½”, or where speed limit is less than 55 MPH.

Excavation

75. Excavation material shall not be placed on pavement.

76. It is the responsibility of the encroaching party or their contractor to prevent any mud/dirt from tracking onto the roadway. Any dirt which may collect on the roadway pavement from equipment and/or truck traffic on site shall be immediately removed to avoid any unsafe traffic conditions.

77. The utility shall be installed within 5 feet of the right of way line and outside the 5-foot minimum from travel lane plus theoretical 2:1 slope from the edge of pavement to the bottom of the nearest excavation wall for temporary shoring. Temporary shoring is required when a theoretical 2:1 slope from the bottom of excavation will intersect the existing ground line less than 5 feet from the outside edge of an open travel lane as shown in the figure below or when a theoretical 2:1 slope from the bottom of excavation will intersect any existing structure, support, utility, property, etc. to be protected.



If the 2:1 slope plus 5 feet requirement above is met for traffic, then temporary shoring is typically only necessary to protect roadways from damage when a theoretical 1:1 slope from the edge of pavement intersects the nearest excavation wall. This rule of thumb should be used with caution and does not apply to all subsurface conditions, surcharge loadings and excavation geometries. Situations where this 1:1 slope is not recommended include groundwater depth is above bottom of excavation or excavation is deeper than 10 feet or in Type B or C soils as defined by OSHA Technical Manual. Temporary shoring may be avoided by locating trenches, bore pits, and other excavations far enough away from the open travel lane, edge of pavement and any existing structure, support, utility, property, etc. to be protected.

Temporary shoring shall be designed and constructed in accordance with current NCDOT Standard Temporary Shoring provisions (refer to https://connect.ncdot.gov/resources/Specifications/Pages/2018-Specifications-and-Special-Provisions.aspx and see SP11 R002

a. Temporary excavation shoring, such as sheet piling, shall be installed. The design of the shoring shall include the effects of traffic loads. The shoring system shall be designed and sealed by a licensed North Carolina Professional Engineer. Shoring plans and design calculations shall be submitted to the Division Engineer for review and approval prior to construction. (See NCDOT *Utilities Accommodations Manual* for more information on requirements for shoring plans, design calculations, and subsurface investigation report.) **Trench boxes shall not be accepted as temporary shoring and will not be approved for use in instances where shoring is required to protect the highway, drainage structure, and/or supporting pavement or structure foundation**.
b. All trench excavation inside the limits of the theoretical two-to-one slope plus 5 feet requirement, as defined by the policy, shall be completely backfilled and compacted at the end of each construction day. No portion of the trench shall be left open overnight. Any excavation that is not backfilled by the end of the workday must address any safety and traveling public concerns including accommodations for bicycles, pedestrians and persons with disabilities.
c. The trench backfill material shall meet the Statewide Borrow Criteria. The trench shall be backfilled in accordance with Section 300-7 of the latest *NCDOT Standard Specifications for Roads and Structures,* which basically requires the backfill material to be placed in layers not to exceed 6 inches loose and compacted to at least 95% of the density obtained by compacting a sample in accordance with AASHTO T99 as modified by DOT.
d. At the discretion of the Division Engineer, a qualified NCDOT inspector shall be on the site at all times during construction. The encroaching party shall reimburse NCDOT for the cost of providing the inspector. If NCDOT cannot supply an inspector, the encroaching party (not the utility contractor) should make arrangements to have a qualified inspector, under the supervision of a licensed North Carolina Professional Engineer, on the site at all times. The Professional Registered Engineer shall certify that the utility was installed in accordance with the encroachment agreement and that the backfill material meets the Statewide Borrow Criteria.
e. The length of parallel excavation shall be limited to the length necessary to install and backfill one joint of pipe at a time, not to exceed twenty-five (25) feet.

78. All material to a depth of 8 inches below the finished surface of the subgrade shall be compacted to a density equal to at least 100% of that obtained by compacting a sample of the material in accordance with AASHTO T99 as modified by the Department. The subgrade shall be compacted at a moisture content which is approximately that required to produce the maximum density indicated by the above test method. The contractor shall dry or add moisture to the subgrade when required to provide a uniformly compacted and acceptable subgrade. The option to backfill any trenches with dirt or either #57 stone or #78 stone with consolidation with a plate tamp and without a conventional density test

may be pursued with the written consent of the District Engineer. If this option is exercised, then roadway ABC stone and asphalt repair as required will also be specified by the District Engineer.

Boring

79. Boring equipment will be provided of a type and size to facilitate boring in the local geologic conditions and shall be able to facilitate the encroachment work.

80. When Horizontal Directional Drilling (HDD) is used, the following stipulations apply:
    a. Use drilling fluids as appropriate for the type soils but use of water alone is prohibited. Pump drilling fluids only while drilling or reaming. Directional boring using jetting with a Bentonite (or equivalent material) slurry is recommended. Monitor flow rates to match the amount leaving the bore hole and do not increase pressure or flow to free stuck drill heads, reamers or piping. Open cutting to retrieve stuck drill heads is not allowed without prior permission from the District Engineer.
    b. The minimum depth shall adhere to the table below for transverse (under non-controlled access, partial controlled access, or limited controlled access roadway) installations and refers to maximum diameter of hole drilled and not the dimension of the carrier or encasement pipe.

Diameter of Drilled Hole (Backream)	Minimum Depth of Cover
2" to 6”	5 feet
>6” to 15”	12 times hole diameter (e.g. 6-inch hole means 6 feet minimum depth)
>15” to 36”	15 feet or greater

    c. Under fully controlled access roadway installations, the minimum depth for transverse crossings shall be 15 feet under any pavement (ramps or thru lanes)
    d. An overbore (backream diameter) shall not be more than 1.5 times the outside diameter of the pipe or encasement under any highway for pipes 12 inches in diameter or less. For pipes with outer diameter larger than 12 inches, the overbore may be no larger than outer diameter of pipe plus 6 inches. An overbore exceeding 1.5 times greater than the outside diameter of the pipe or encasement may be considered if the encroachment agreement includes a statement signed and sealed by a licensed North Carolina Professional Engineer indicating that an overbore in excess of 1.5 times the outside diameter of the pipe or encasement will appropriately arch and no damage will be done to the pavement or sub-grade.
    e. Directional boring is allowed beneath embankment material in naturally occurring soil.
    f. Any parallel installation utilizing the directional boring method shall be made at a minimum depth of three (3’) feet (cover) below the ground surface and outside the theoretical 1:1 slope from the existing edge of pavement except where the parallel installation crosses a paved roadway.
    g. All directional bores shall maintain ten (10) feet minimum (clear) distance from the nearest part of any structure, including but not limited to bridges, footings, pipe culverts or box culverts. Directional bores are not allowed beneath bridge footings, culvert wingwall footings, slope protection or retaining walls.
    h. The tip of the drill string shall have a cutter head.
    i. Detection wire shall be installed with non-ferrous material.
    j. HDPE pipe installed by directional boring shall not be connected to existing pipe or fittings for one (1) week from the time of installation to allow tensional stresses to relax.

Aerial clearances

81. Vertical clearance of overhead power and communication lines shall meet the National Electrical Safety Code requirements except the minimum vertical clearance shall be 18' for crossings over NCDOT roadways (24' over Fully Controlled Access roadways) and 16' for parallel installations.

82. When applicable for aerial installations, in relation to the bridge, the utility line shall be located with minimum clearances as indicated in Figure 3-3 in the Utilities Accommodations Manual for NCDOT **Required Clearances for Aerial Installations by Encroachment Near Bridge Structures**.

Pavement Detail and Repair

1. The paving of this roadway shall be in accordance with the latest version of NCDOT Standard Specifications, Sections 610, 1012 and 1020. The Contractor shall follow all procedures of the latest Quality Management System (QMS) Asphalt Manual for asphalt pavement - Maintenance Version (see https://connect.ncdot.gov/resources/Materials/MaterialsResources/Forms/Default.aspx) to find the most recent version. The Contractor must adhere to all testing requirements and quality control requirements specified. The Contractor shall contact the NCDOT Division QA Supervisor prior to producing plant mix and make the Supervisor aware that the mix is being produced for a future NCDOT road. Contact the District Engineer to determine the NCDOT Division QA Supervisor. Only NCDOT approved mix designs will be acceptable. A Quality Control Plan shall be submitted (as Directed by the District Engineer) to the District Engineer's Office prior to asphalt production utilizing form QMS-MV1. Failing mixes and/or densities are subject to penalties including monetary payments or removal and replacement. To minimize traffic queuing in construction areas, the possibility of traffic detours may be considered when working on high traffic routes even if traffic control is used. The District Engineer may require traffic detours.

2. When paving beyond utility installation is involved, a Roadway certification report sealed by a Professional Engineer shall be submitted to the District Engineer's office indicating the following:
    - Pavement thickness by type
    - Pavement density, core and/or test locations
    - Base thickness
    - Base density
    - Subgrade density

    Test frequency and method shall be in conformance with the NCDOT *Materials and Tests Manual*. Test must be performed by a Certified Technician including name and Certification number on report.

3. "Potholing" (or "daylighting") pavement cores to expose existing utilities shall be made with a circular minimum 6" to maximum 18" diameter "test" hole to a maximum depth of 12 inches. Pavement core locations shall not be placed in the wheel path whenever possible. Vacuum excavation shall be utilized to expose underground utilities below pavement subgrade. Displaced dirt and rock debris must be suctioned away from the excavation area through a large hose to a vacuum truck and disposed by the encroaching party. Avoid using mechanized equipment in the proximity of all exposed underground utility lines. Pavement cores shall be repaired within the same working day. The pavement core shall be retained and evaluated for reuse to fill the core hole.

    The excavation shall be backfilled and compacted with select material to the bottom of the existing pavement structure or as indicated by the District Engineer. If in good condition, the retained core shall be placed in the hole and secured with a waterproof, mechanical joint. If the pavement core is damaged and cannot be re-used, the core may be replaced with the surface mix, S9.5B. The asphalt patch shall match the thickness of the existing asphalt or four inches, whichever is greater and the use

of NCDOT approved sealant applied to the cracks to fill the voids. All materials must be listed on the NCDOT Approved Products List (APL) found at: https://apps.ncdot.gov/vendor/approvedproducts/.

4. The minimum pavement design for pavement repair shall be according to the most recent version of NCDOT Standard Drawing 654.01 (https://connect.ncdot.gov/resources/Specifications/Pages/default.aspx). The version valid in 2024 through 2030 is located at https://connect.ncdot.gov/resources/Specifications/2024StandardRdwyDrawings/Div%206%20Combined.pdf. The pavement design shall include a mechanical overlay extent to be a minimum of 25 feet each side of the pavement repair area OR as directed by the District Engineer.
5. Pavement cuts shall be repaired the same day the cuts are made unless an asphalt patch cannot be accomplished the same day due to material availability or time restrictions. When the asphalt patch is not feasible, the following apply:
    a. The pavement cut shall be filled to the surface with ABC stone or Flowable Fill per NCDOT's Standards and Specifications.
    b. Once the cut is filled, a minimum ¾-inch steel plate shall be placed and pinned to prevent moving. Plates shall be designed large enough to span a minimum of 1-foot on all sides on the pavement cut.
    c. When flowable fill is used, it shall cure for 24 hours prior to any asphalt material placement. Flowable fill bleed water shall not be present during paving operations. Paving shall not cause damage (shoving, distortion, pumping, etc.) to the flowable fill.
    d. Install and leave "BUMP" signs according to MUTCD until the steel plate has been removed. Once the flowable fill has cured, remove the steel plate, and mill/fill according to the directions of the District Engineer.
    e. All pavement cuts must be sealed with NCDOT approved sealant to prevent future pavement separation or cracking.
6. Any pavement damaged because of settlement of the pavement or damaged by equipment used to perform encroachment work, shall be re-surfaced to the satisfaction of the District Engineer. This may include the removal of pavement and a 50' mechanical overlay. All pavement work and pavement markings (temporary and final) are the responsibility of the Encroaching Party.

Post Construction

Close out/ Inspection

7. The Encroaching party shall notify the District Engineer's office within 2 business days after construction is complete. The District Engineer may perform a construction inspection. Any deficiencies may be noted and reported to the encroaching party to make immediate repairs or resolve any issues to restore the right-of-way to a similar condition prior to construction, including pavement, signage, traffic signals, pavement markings, drainage, structures/pipes, or other highway design features.
8. At the discretion of the District Engineer, a final inspection report may be provided to the encroaching party upon satisfactory completion of the work.
9. When a performance bond is required, a written acknowledgement of the completed work by the District Engineer's office begins the one-year warranty period associated with the performance bond.

10. If the actual construction differs from the approved plans associated with this encroachment, a copy of "as-built" plans shall be submitted to the District Engineer's office in a PDF format and in a current ESRI GIS format within 4 weeks of construction.

11. The encroaching party shall provide the North Carolina Turnpike Authority (NCTA) with an electronic copy of coordinate correct as-built plans within two weeks of installation completion. Failure to provide the as-built plans may jeopardize future approvals within NCTA right of way.

12. A copy (in PDF format) of the completed ground water analysis shall be given to the District Engineer, including detailed drawings of the "as-built" wells showing location, depth and water level in well.

ATTACHMENT FORM

NOTIFICATION FOR UTILITY / NON-UTILITY ENCROACHMENT WITHIN NCDOT R/W

Instructions for use:
This form must be completed in its entirety and submitted directly to the designated personnel in the District Engineer's office via email, fax or hand delivery a minimum of one week prior to construction for the encroachment. If the designated NCDOT personnel names are unknown by the person completing this form, please contact the District Engineer's office to determine that contact info.

Date: _____ Submitted by Name: _____

To: District Personnel Name: _____
District Personnel Email: _____
District Fax No.: _____

This notification is to inform you that we (encroaching party or their contractor) will begin construction work on the following project in a minimum of one week.

Encroachment number
(assigned by NCDOT) for the project: _____

Construction start date: _____

Approximate ending date: _____

Contact NCDOT inspector a minimum of 72 hrs. in advance to set-up Preconstruction meeting in the District Engineer's office or other location as directed by the District Engineer

Preconstruction meeting date & time: _____

Preconstruction meeting address: _____
_____

Type of project: _____
[Examples: power, telecommunication, water, sewer, gas, petroleum, other (describe)]

Contact Info for this project:

Contractor Company Name:
_____
Contractor Contact Name:
_____
Contractor Phone Number:
_____
Contractor Email:
_____

NCDOT Utility Inspector Name:
_____
NCDOT Utility Inspector Phone:
_____
NCDOT Utility Inspector Email:
_____
NCDOT Utility Project Manager Name:
_____
NCDOT Utility Project Manager Phone:
_____
NCDOT Utility Project Manager Email:
_____

Private Facility Encroachment
Hold Harmless Declaration

Encroachment Agreement Second Party: _____

_____

_____

Encroachment Number: _____

County: _____

The party of the second part of the above-referenced encroachment agreement agrees to indemnify and save harmless the North Carolina Department of Transportation from all claims of liability for the overburdening of right of way easements caused by the installation of private facilities owned by the party of the second part and installed under the approval of the above-referenced encroachment agreement.

Second Party: _____

_____

_____

Attest or Witness: _____

_____

_____

Date: _____

Published by NCDOT Utilities Unit 7/17/2017
Separate Form to be signed by each property owner affected by the installation.

Attachment for Clear Zone Guidelines from AASHTO

Clear - Zone Table

TABLE 3.1 (Cont'd)

[U.S. Customary Units]

DESIGN SPEED	DESIGN ADT	FORESLOPES			BACKSLOPES		
		1V:6H or flatter	1V:5H TO 1V:4H	1V:3H	1V:3H	1V:5H TO 1V:4H	1V:6H or flatter
40 mph or less	UNDER 750	7 – 10	7 – 10	**	7 – 10	7 – 10	7 – 10
	750 – 1500	10 – 12	12 – 14	**	10 – 12	10 – 12	10 – 12
	1500 – 6000	12 – 14	14 – 16	**	12 – 14	12 – 14	12 – 14
	OVER 6000	14 – 16	16 – 18	**	14 – 16	14 – 16	14 – 16
45–50 mph	UNDER 750	10 – 12	12 – 14	**	8 – 10	8 – 10	10 – 12
	750 – 1500	14 – 16	16 – 20	**	10 – 12	12 – 14	14 – 16
	1500 – 6000	16 – 18	20 – 26	**	12 – 14	14 – 16	16 – 18
	OVER 6000	20 – 22	24 – 28	**	14 – 16	18 – 20	20 – 22
55 mph	UNDER 750	12 – 14	14 – 18	**	8 – 10	10 – 12	10 – 12
	750 – 1500	16 – 18	20 – 24	**	10 – 12	14 – 16	16 – 18
	1500 – 6000	20 – 22	24 – 30	**	14 – 16	16 – 18	20 – 22
	OVER 6000	22 – 24	26 – 32 *	**	16 – 18	20 – 22	22 – 24
60 mph	UNDER 750	16 – 18	20 – 24	**	10 – 12	12 – 14	14 – 16
	750 – 1500	20 – 24	26 – 32 *	**	12 – 14	16 – 18	20 – 22
	1500 – 6000	26 – 30	32 – 40 *	**	14 – 18	18 – 22	24 – 26
	OVER 6000	30 – 32 *	36 – 44 *	**	20 – 22	24 – 26	26 – 28
65–70 mph	UNDER 750	18 – 20	20 – 26	**	10 – 12	14 – 16	14 – 16
	750 – 1500	24 – 26	28 – 36 *	**	12 – 16	18 – 20	20 – 22
	1500 – 6000	28 – 32 *	34 – 42 *	**	16 – 20	22 – 24	26 – 28
	OVER 6000	30 – 34 *	38 – 46 *	**	22 – 24	26 – 30	28 – 30

* Where a site specific investigation indicates a high probability of continuing crashes, or such occurrences are indicated by crash history, the designer may provide clear-zone distances greater than the clear-zone shown in Table 3.1. Clear zones may be limited to 30 ft for practicality and to provide a consistent roadway template if previous experience with similar projects or designs indicates satisfactory performance.

** Since recovery is less likely on the unshielded, traversable 1V:3H slopes, fixed objects should not be present in the vicinity of the toe of these slopes. Recovery of high-speed vehicles that encroach beyond the edge of the shoulder may be expected to occur beyond the toe of slope. Determination of the width of the recovery area at the toe of slope should take into consideration right-of-way availability, environmental concerns, economic factors, safety needs, and crash histories. Also, the distance between the edge of the through traveled lane and the beginning of the 1V:3H slope should influence the recovery area provided at the toe of slope. While the application may be limited by several factors, the foreslope parameters which may enter into determining a maximum desirable recovery area are illustrated in Figure 3.2.

NCDOT Required Clearances for Aerial Installations Near Bridge Structures

NOT TO SCALE

Any variation to this detail must be approved by the Division Engineer and/or State Utilities Manager.

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June 2020

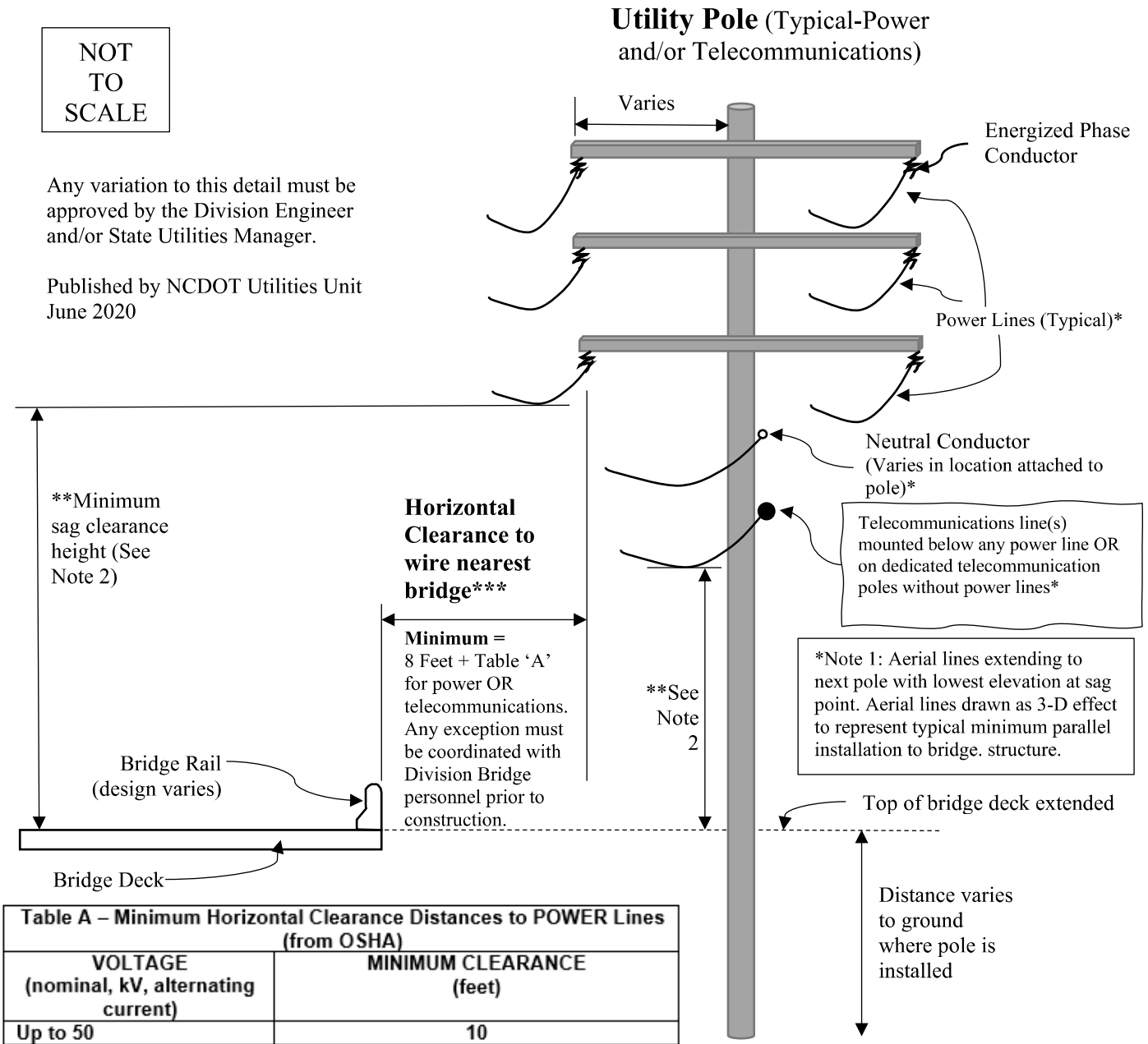


Table A – Minimum Horizontal Clearance Distances to POWER Lines (from OSHA)	
VOLTAGE (nominal, kV, alternating current)	MINIMUM CLEARANCE (feet)
Up to 50	10
Over 50 to 200	15
Over 200 to 350	20
Over 350 to 500	25
Over 500 to 750	35
Over 750 to 1000	45
Over 1000	As established by the utility owner/operator or registered professional engineer who is a qualified person with respect to electrical power transmission and distribution

Note 2- **MINIMUN SAG CLEARANCE HEIGHT is 25 feet (applies to telecommunications AND power).

***Note 3: HORIZONTAL CLEARANCE EXCEPTION. If vertical sag clearance height for power above bridge deck is ≥ 45 feet AND voltage is ≤ 350kV, then Minimum Horizontal Clearance may be reduced to 3 feet. Any telecommunications attachment to power pole allowed in this exception must have a minimum 25 feet sag clearance height above bridge deck.

GREENVILLE UTILITIES
GREENVILLE, NC

WESTSIDE ELEVATED STORAGE TANK

HAZEN CONTRACT NO. 31218-012
AUGUST 2026



LOCATION PLAN
NOT TO SCALE

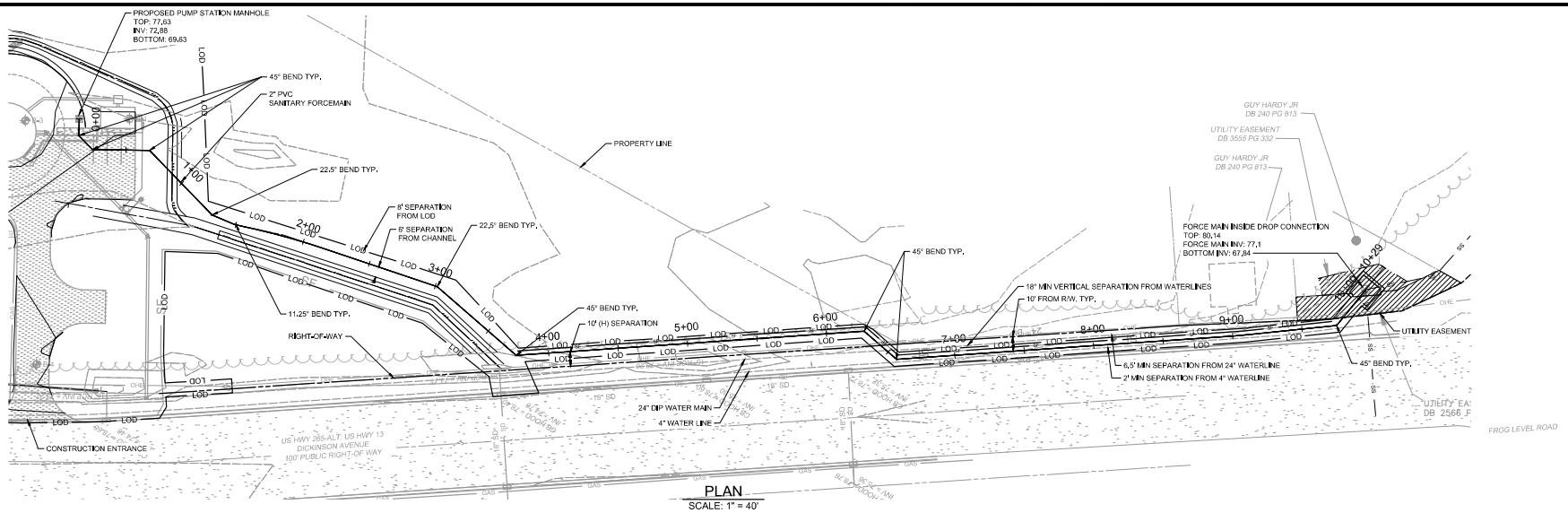
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4011 WESTCHASE BLVD, SUITE 500
RALEIGH, NORTH CAROLINA 27607
LICENSE NO.: C-0381

NORTH CAROLINA PROFESSIONAL SEAL 046134 ENGINEER JAMES B. HENNESSEY

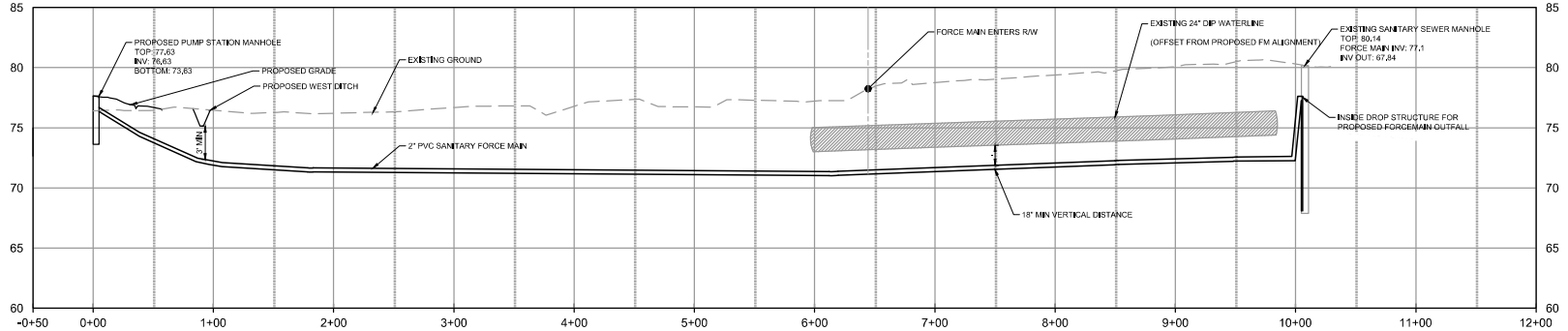
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NCDOT ENCROACHMENT SUBMITTAL - DO NOT USE FOR CONSTRUCTION



PLAN
SCALE: 1" = 40'

2" SANITARY SEWER FORCE MAIN ALIGNMENT



PROFILE
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'

REV	ISSUED FOR	DATE	BY
1	REGULATORY REVIEW	8/2026	JBH

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE (0, 1/2", 1")

PROJECT ENGINEER:	J. HENNESSY
DESIGNED BY:	J. KLINGAMAN
DRAWN BY:	A. CHIODINI
CHECKED BY:	T. DAVIS

PRELIMINARY DRAWING
DO NOT USE FOR
CONSTRUCTION

NORTH CAROLINA PROFESSIONAL SEAL 046134 ENGINEER JAMES T. HENNESSY
2026.08.19 13:52:15-04'00'

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LICENSE NO.: C-0381

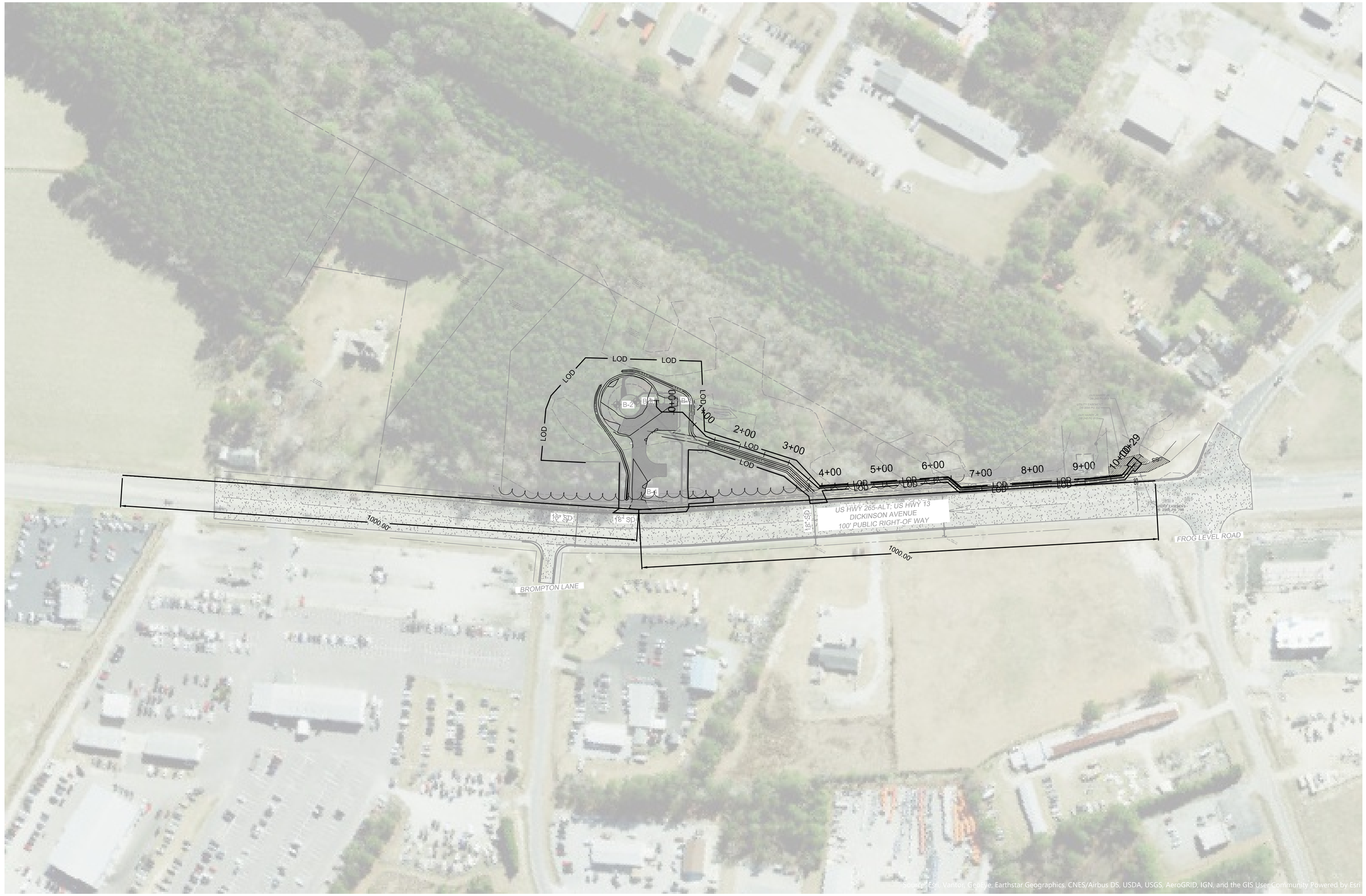
GREENVILLE UTILITIES
GREENVILLE, NORTH CAROLINA

WESTSIDE ELEVATED STORAGE TANK

SANITARY SEWER FORCE MAIN
PLAN AND PROFILE

DATE:	MAY 2026
HAZEN NO.:	31218-012
CONTRACT NO.:	1
DRAWING NUMBER:	C04

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NOTES:

1. REFERENCE SPEC 01 55 26 - TRAFFIC CONTROL BEFORE WORKING IN NCDOT RIGHT-OF-WAY

PLAN
SCALE: 1" = 40'

REV	ISSUED FOR	DATE	BY
2	REGULATORY REVIEW	5/2026	JBH
1	REGULATORY REVIEW	3/2026	JBH

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE (0, 1/2", 1")

PROJECT ENGINEER:	J. HENNESSY
DESIGNED BY:	J. KLINGAMAN
DRAWN BY:	A. CHIODINI
CHECKED BY:	T. DAVIS

PRELIMINARY DRAWING
DO NOT USE FOR
CONSTRUCTION

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LICENSE NO.: C-0381

GREENVILLE UTILITIES
GREENVILLE, NORTH CAROLINA

WESTSIDE ELEVATED STORAGE TANK

CONSTRUCTION ENTRANCE
SIGHT DISTANCE EXHIBIT

DATE:	MAY 2026
HAZEN NO.:	31218-012
CONTRACT NO.:	1
DRAWING NUMBER:	EXHB

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END OF ADDENDUM 1