

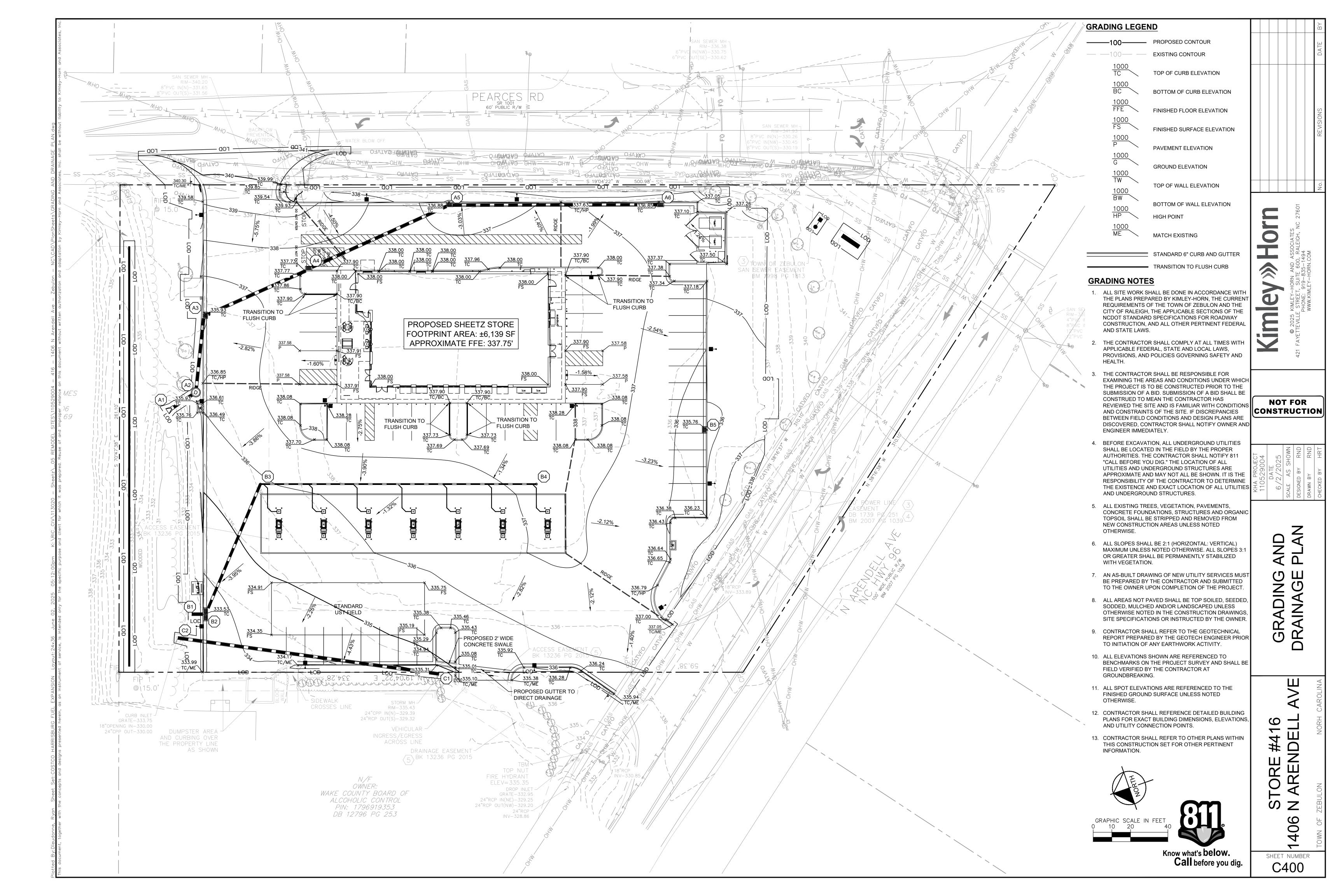
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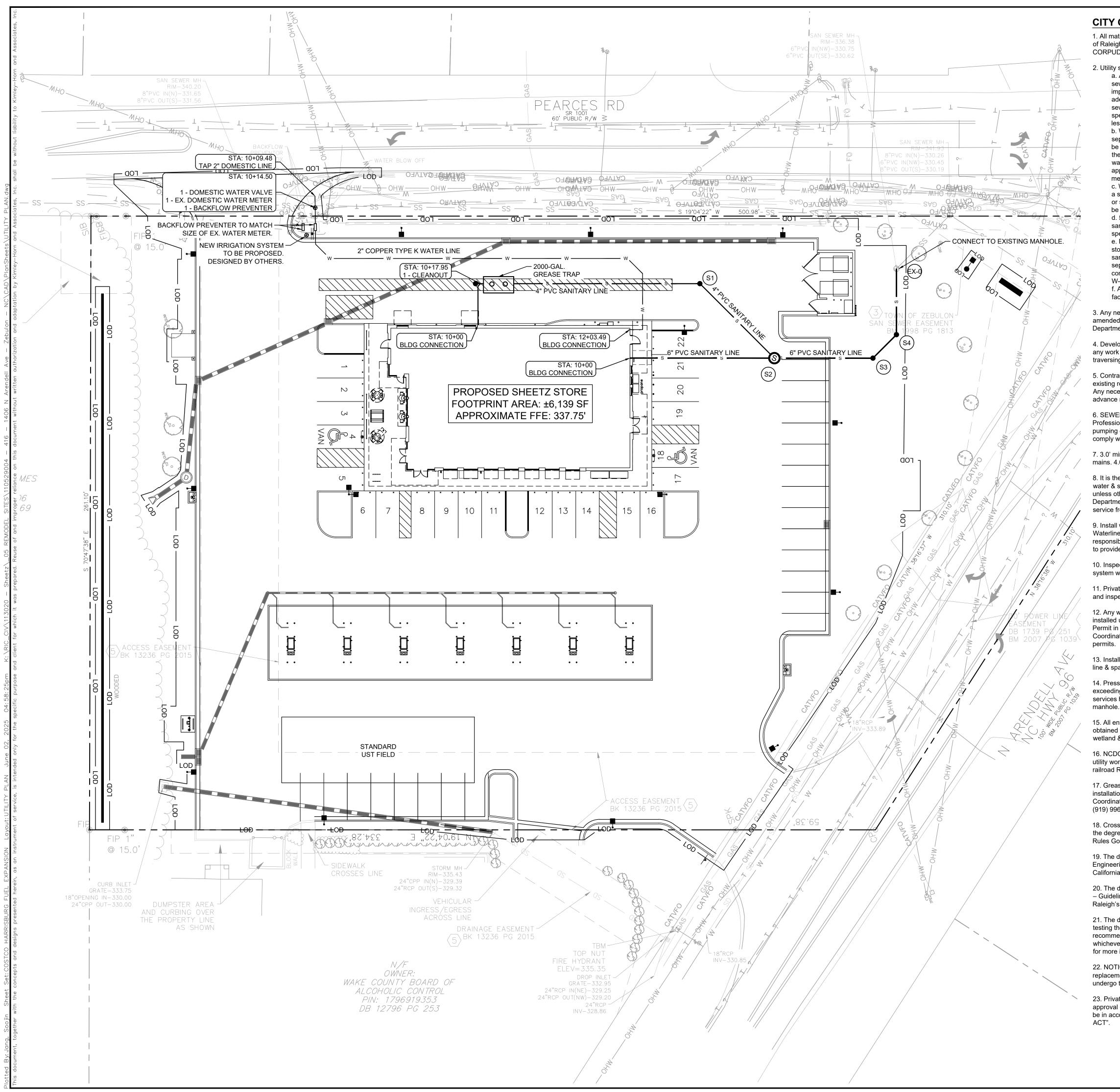
SHEET NUMBER

C300

Know what's **below**.

Call before you dig.





## **CITY OF RALEIGH UTILITY NOTES**

1. All materials & construction methods shall be in accordance with City of Raleigh design standards, details & specifications (reference: CORPUD Handbook, current edition)

## 2. Utility separation requirements:

a. A distance of 100' shall be maintained between sanitary sewer & any private or public water supply source such as an impounded reservoir used as a source of drinking water. If adequate lateral separation cannot be achieved, ferrous sanitary sewer pipe shall be specified & installed to waterline specifications. However, the minimum separation shall not be less than 25' from a private well or 50' from a public well. b. When installing water &/or sewer mains, the horizontal separation between utilities shall be 10'. If this separation cannot

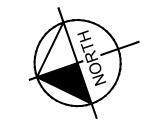
- be maintained due to existing conditions, the variation allowed is the water main in a separate trench with the elevation of the water main at least 18" above the top of the sewer & must be approved by the Public Utilities Director. All distances are measured from outside diameter to outside diameter.
- c. Where it is impossible to obtain proper separation, or anytime a sanitary sewer main passes over a watermain, DIP materials or steel encasement extended 10' on each side of crossing must be specified & installed to waterline specification.
- d. 5.0' minimum horizontal separation is required between all sanitary sewer & storm sewer facilities, unless DIP material is specified for sanitary sewer.
- e. Maintain 18" min. vertical separation at all watermain & RCP storm drain crossings; maintain 18" min. vertical separation at all sanitary sewer & RCP stormdrain crossings. Where adequate separations cannot be achieved, specify DIP materials & a concrete cradle having 6" min. clearance (per CORPUD details
- W-41 & S-49). f. All other underground utilities shall cross water & sewer facilities with 18" min. vertical separation required.
- 3. Any necessary field revisions are subject to review & approval of an amended plan&/or profile by the City of Raleigh Public Utilities Department prior to construction.
- 4. Developer shall provide 30 days advance written notice to owner for any work required within an existing City of Raleigh Utility Easement traversing private property.
- 5. Contractor shall maintain continuous water & sewer service to existing residences & businesses throughout construction of project. Any necessary service interruptions shall be preceded by a 24-hour advance notice to the City of Raleigh Public Utilities Department.
- 6. SEWER BYPASS PUMPING A bypass plan sealed by an NC Professional Engineer stall be provided to Raleigh Water Prior to pumping operations for approval. The operations and equipment shall comply with the Public Utilities Handbook.
- 7. 3.0' minimum cover is required on all water mains & sewer force mains. 4.0' minimum cover is required on all reuse mains.
- 8. It is the developer's responsibility to abandon or remove existing water & sewer services not being used in redevelopment of a site unless otherwise directed by the City of Raleigh Public Utilities Department. This included abandoning tap at main & removal of service from ROW or easement per CORPUD Handbook procedure.
- 9. Install water services with meters located at ROW or within a 2'x2' Waterline Easement immediately adjacent. NOTE: it is the applicant's responsibility to properly size the water service for each connection to provide adequate flow & pressure.
- 10. Inspections of 4" and larger water mains of the private distribution system will be inspected as part of the infrastructure permit.
- 11. Private sewer mains as part of a collection system are permitted and inspected under the private infrastructure permit for sewer.
- 12. Any water or sewer services on private property that will be installed under Construction Drawings may require a Plumbing Utility Permit in the City of Raleigh. Consult with the Engineering Inspection Coordinator during the pre-construction meeting on the necessary
- 13. Install sewer services with cleanouts located at ROW or easement line & spaced per the current NC Plumbing Code.
- 14. Pressure reducing valved are required on all water services exceeding 80 psi; backwater valves are required on all sanitary sewer services having building drains lower than 1.0' above the next upstream
- 15. All environmental permits applicable to the project must be obtained from NCDWQ, USACE &/or FEMA for any riparian buffer, wetland &/or floodplain impacts (respectively) prior to construction.
- 16. NCDOT / Railroad Encroachment Agreements are required for any utility work (including main extensions & service taps) within state or railroad ROW prior to construction.
- 17. Grease Interceptor / Oil Water Separator sizing calculations & installation specifications shall be approved by the RW FOG Program Coordinator prior to issuance of a UC and/or Building Permit. Contact (919) 996-4516 of fog@raleighnc.gov for more information.
- 18. Cross-connection control protection devices are required based on the degree of health hazard involved as listed in Appendix B of the Rules Governing Public Water Systems in North Carolina.
- 19. The devices shall meet the American Society of Sanitary Engineering (ASSE) standards and be on the University of Southern California approval list.
- 20. The device and installation shall meet the guidelines of Appendix A - Guidelines and Requirements of the Cross Connection Program in Raleigh's Service Area.
- 21. The devices shall be installed & tested (both, initial & periodic testing thereafter) in accordance with the manufacturer's recommendations or the local cross connection control program, whichever is more stringent. Contact cross.connection@raleighnc.gov for more information.
- 22. NOTICE for projects that involve an oversized main or urban main replacement. Any City reimbursement greater than \$250,000.00 must undergo the public bidding process.
- 23. Private sub-metering No resale of water shall occur without the approval of the North Carolina Utility Commission. Sub-metering shall be in accordance with Section 1400 of the "SAFE DRINKING WATER

## UTILITY LEGEND

| LOD         | LIMITS OF DISTURBANCE<br>(±80,959 SF) |  |  |
|-------------|---------------------------------------|--|--|
| SS SS       | EXISTING SANITARY SEWER<br>LINE       |  |  |
|             |                                       |  |  |
| W           | EXISTING WATER LINE                   |  |  |
| s           | PROPOSED SANITARY<br>SEWER LINE       |  |  |
|             |                                       |  |  |
| ———— W ———— | PROPOSED WATER LINE                   |  |  |
|             | PROPOSED STORM DRAIN                  |  |  |

## SHEETZ UTILITY NOTES

- 1. ALL SITE WORK SHALL BE DONE IN ACCORDANCE WITH THE PLANS PREPARED BY KIMLEY-HORN, THE CURRENT REQUIREMENTS OF THE TOWN OF ZEBULON AND THE CITY OF RALEIGH, THE APPLICABLE SECTIONS OF THE NCDOT STANDARD SPECIFICATIONS FOR ROADWAY CONSTRUCTION, AND ALL OTHER PERTINENT FEDERAL AND STATE LAWS.
- 2. THE CONTRACTOR SHALL COMPLY AT ALL TIMES WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, PROVISIONS, AND POLICIES GOVERNING SAFETY AND HEALTH.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXAMINING THE AREAS AND CONDITIONS UNDER WHICH THE PROJECT IS TO BE CONSTRUCTED PRIOR TO THE SUBMISSION OF A BID.
- 4. BEFORE EXCAVATION, ALL UNDERGROUND UTILITIES SHALL BE LOCATED IN THE FIELD BY THE PROPER AUTHORITIES. THE CONTRACTOR SHALL NOTIFY 811 "CALL BEFORE YOU DIG." THE LOCATION OF ALL UTILITIES AND UNDERGROUND STRUCTURES ARE APPROXIMATE AND MAY NOT ALL BE SHOWN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND EXACT LOCATION OF ALL UTILITIES AND UNDERGROUND STRUCTURES.
- 5. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO **BID AND PERFORM ALL UTILITY WORK IN COMPLIANCE** TO ALL APPLICABLE LOCAL AND STATE CODES AND REGULATIONS.
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FEES ASSOCIATED WITH THE INSTALLATION, INSPECTING, TESTING AND FINAL ACCEPTANCE OF ALL PROPOSED UTILITY CONSTRUCTION UNLESS OTHERWISE COORDINATED BEFOREHAND WITH SHEETZ.
- 7. CONTRACTOR SHALL COORDINATE WITH THE APPROPRIATE UTILITY COMPANY ON THE ADDITION, REMOVAL AND/OR RELOCATION OF UTILITIES AND UTILITY POLES AND THE EXTENSION OF ALL PROPOSED UTILITIES TO THE SHEETZ PROJECT STRUCTURES.
- 8. ALL UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE RESPECTIVE UTILITY COMPANY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE ALL UTILITIES ARE INSTALLED CORRECTLY TO MEET PROJECT REQUIREMENTS WHETHER PERFORMED BY THE CONTRACTOR OR NOT.
- 9. AN AS-BUILT DRAWING OF NEW UTILITY SERVICES SHALL BE PREPARED BY THE CONTRACTOR AND SUBMITTED TO THE OWNER UPON COMPLETION OF THE PROJECT.
- 10. UTILITY COMPANIES AND CONTACTS ARE LISTED ON SHEET C001.
- 11. CONDUIT LOCATIONS TO FREESTANDING SIGNS AND SITE LIGHT POLES TO BE COORDINATED WITH SHEETZ CONSTRUCTION MANAGER.
- 12. CONTRACTOR SHALL COORDINATE AND VERIFY WITH SHEETZ CONSTRUCTION MANAGER ON LOCATION AND SIZE OF THE STORE GREASE TRAP. GREASE TRAP SHALL BE PROVIDED WITH "T" PIPE IN OUTFLOW CHAMBER. ALL SANITARY SEWER PIPE SHALL BE SDR-35 PVC UNLESS OTHERWISE NOTED.
- 13. CONTRACTOR SHALL COORDINATE WITH SHEETZ CONSTRUCTION MANAGER AND SHEETZ IT DEPARTMENT ON THE CONDUIT ROUTE TO STORE FOR TELE/COMMUNICATION SERVICES.
- 14. CONTRACTOR SHALL REFER TO OTHER PLANS WITHIN THIS CONSTRUCTION SET FOR OTHER PERTINENT INFORMATION.





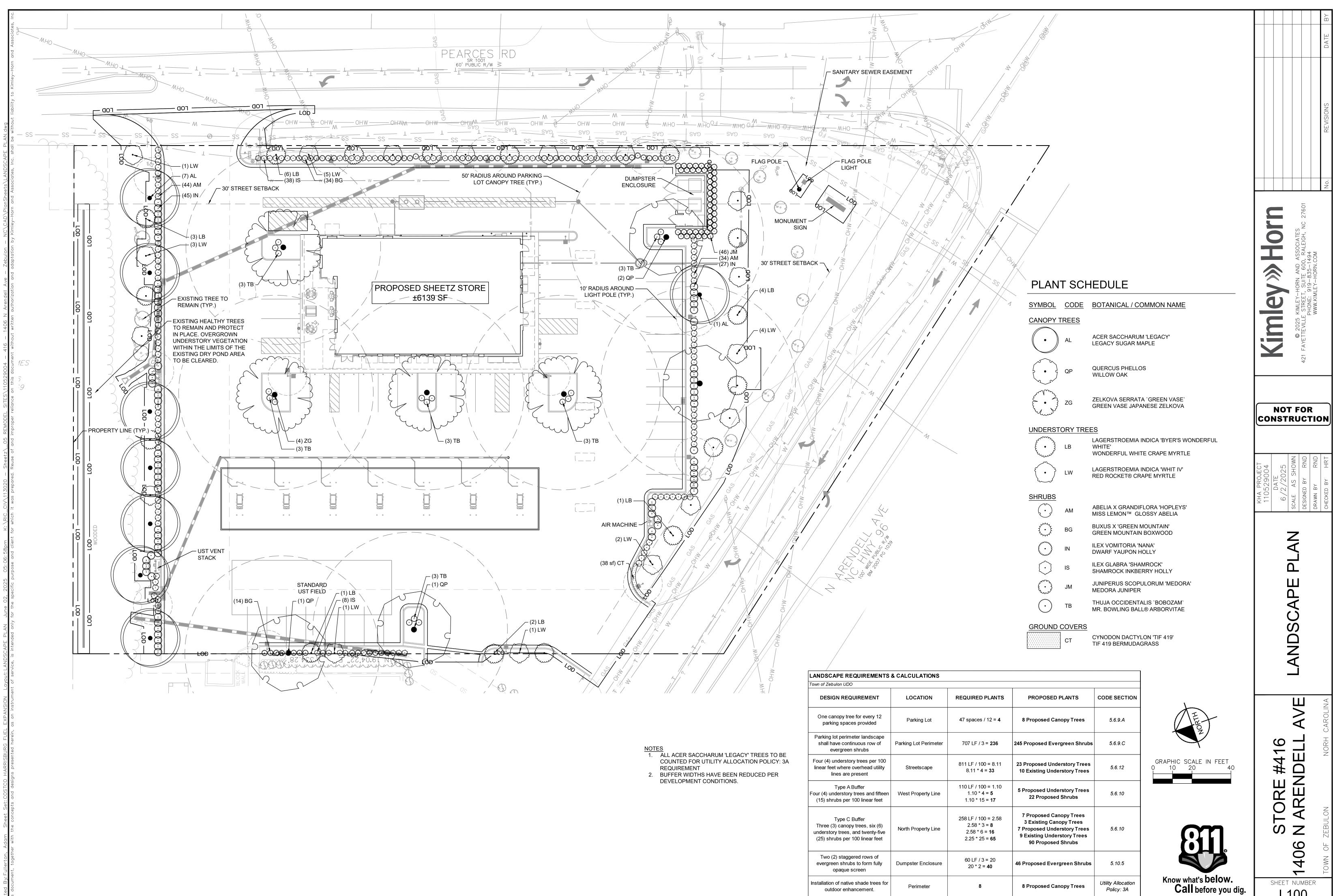
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|                          |                   |                | 421 FAYETTEVILLE STREET, SUITE 600, RALEIGH, NC 2760 |          |                |
|--------------------------|-------------------|----------------|--|----------|----------------|
| ROJECT<br>9004           | .TE<br>/2025      | NMOHS S        | DESIGNED BY RND                                      | RND      | снескер ву нкт |
| KHA PROJECT<br>110529004 | DATE<br>5/20/2025 | SCALE AS SHOWN | DESIGNED E   | DRAWN BY | CHECKED B      |
|                          |                   |                |  |          |                |



| STORE #416 | 406 N ARENDELL AVE | TOWN OF ZEBILLON NORH CAROLINA |
|------------|--------------------|--------------------------------|
|            | 140                | TOWN                           |
|            | NUMBER<br>600      |                                |

GRAPHIC SCALE IN FEET 20



| LANDSCAPE REQUIREMENTS   |                       |   |  |                                  |  |
|--|-----------------------|---|--|----------------------------------|--|
| DESIGN REQUIREMENT   | LOCATION              | REQUIRED PLANTS   | PROPOSED PLANTS  | CODE SECTION                     |  |
| One canopy tree for every 12<br>parking spaces provided  | Parking Lot           | 47 spaces / 12 = <b>4</b>   | 8 Proposed Canopy Trees  | 5.6.9.A                          |  |
| Parking lot perimeter landscape<br>shall have continuous row of<br>evergreen shrubs                                      | Parking Lot Perimeter | 707 LF / 3 <b>= 236</b>   | 245 Proposed Evergreen Shrubs  | 5.6.9.C                          |  |
| Four (4) understory trees per 100<br>linear feet where overhead utility<br>lines are present                             | Streetscape           | 811 LF / 100 = 8.11<br>8.11 * <b>4 = 33</b>   | 23 Proposed Understory Trees<br>10 Existing Understory Trees   | 5.6.12                           |  |
| Type A Buffer<br>Four (4) understory trees and fifteen<br>(15) shrubs per 100 linear feet                                | West Property Line    | 110 LF / 100 = 1.10<br>1.10 * 4 = 5<br>1.10 * 15 = <b>17</b>                                | 5 Proposed Understory Trees<br>22 Proposed Shrubs  | 5.6.10                           |  |
| Type C Buffer<br>Three (3) canopy trees, six (6)<br>understory trees, and twenty-five<br>(25) shrubs per 100 linear feet | North Property Line   | 258 LF / 100 = 2.58<br>2.58 * 3 = <b>8</b><br>2.58 * 6 = <b>16</b><br>2.25 * 25 = <b>65</b> | 7 Proposed Canopy Trees<br>3 Existing Canopy Trees<br>7 Proposed Understory Trees<br>9 Existing Understory Trees<br>90 Proposed Shrubs | 5.6.10                           |  |
| Two (2) staggered rows of<br>evergreen shrubs to form fully<br>opaque screen   | Dumpster Enclosure    | 60 LF / 3 = 20<br>20 * 2 = <b>40</b>  | 46 Proposed Evergreen Shrubs   | 5.10.5                           |  |
| Installation of native shade trees for outdoor enhancement.  | Perimeter             | 8   | 8 Proposed Canopy Trees  | Utility Allocation<br>Policy: 3A |  |

L100