

2/C500
STANDARD CITY OF DURHAM LIGHTING NOTES

UDO SITE LIGHTING NOTE (UDO SEC. 7.4): MEASURES SHALL BE PROVIDED TO PREVENT LIGHT SPILLOVER ONTO ADJACENT PROPERTIES AND GLARE TOWARD MOTOR VEHICLE OPERATORS AND SHALL BE INDICATED ON THE SITE PLAN. EXTERIOR LIGHTS SHALL BE SHIELDED SO THAT THEY DO NOT CAST DIRECT LIGHT BEYOND THE PROPERTY LINE. IN ACCORDANCE WITH THESE STANDARDS:

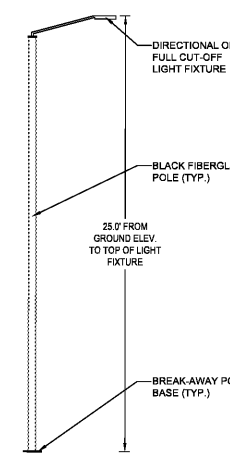
- THE MAXIMUM ILLUMINATION AT THE EDGE OF THE PROPERTY LINE ADJACENT TO RESIDENTIAL ZONING IS 0.5 FOOT CANDLES.
- THE MAXIMUM ILLUMINATION AT THE EDGE OF THE PROPERTY LINE ADJACENT TO NONRESIDENTIAL ZONING IS 5.0 FOOT CANDLES.
- THE MAXIMUM ILLUMINATION AT THE EDGE OF THE PROPERTY LINE ADJACENT TO A STREET IS 5.0 FOOT CANDLES.
- THE LEVEL OF ILLUMINATION AS MEASURED IN FOOT CANDLES AT ANY ONE POINT SHALL MEET THE STANDARDS IN THE TABLE IN UDO SECTION 7.4 WITH MINIMUM AND MAXIMUM LEVELS MEASURED ON THE PAVEMENT WITHIN THE LIGHTED AREA.
- THE MAXIMUM HEIGHT FOR DIRECTIONAL OR FULL CUT-OFF LIGHTING FIXTURES (FIXTURES DESIGNED TO INSURE THAT NO LIGHT IS EMITTED ABOVE A HORIZONTAL LINE PARALLEL TO THE GROUND) SHALL BE 30 FEET ABOVE GRADE, MEASURED TO THE TOP OF THE FIXTURE.
- THE MAXIMUM HEIGHT FOR NON-DIRECTIONAL LIGHTING FIXTURES, WHICH ARE DEFINED AS FIXTURES DESIGNED TO ALLOW LIGHT TO BE EMITTED ABOVE A HORIZONTAL LINE PARALLEL TO THE GROUND, SHALL BE 15 FEET ABOVE GRADE, MEASURED TO THE TOP OF THE FIXTURE.
- THESE STANDARDS MUST BE VERIFIED BY FIELD SURVEY (BY USE OF PHOTOMETRIC SURVEY) TO THE CERTIFICATE OF COMPLIANCE BEING ISSUED ALL OF THIS INFORMATION, INCLUDING DETAILS, WILL BE REQUIRED ON BUILDING PLANS PRIOR TO ISSUANCE OF BUILDING PERMIT.

ALL SITE LIGHTING SHALL BE DESIGNED SO THAT THE LEVEL OF ILLUMINATION AS MEASURED IN FOOT-CANDLES (FC) AT ANY ONE POINT MEETS THE STANDARDS IN THE TABLE BELOW WITH MINIMUM AND MAXIMUM LEVELS MEASURED ON THE PAVEMENT WITHIN THE LIGHTED AREA.

Type of Lighting	LIGHT LEVEL (in foot-candles)	
	Minimum at Any Point	Maximum at Any Point
Decorative Lighting	0.8	5.0
Street Lighting	2.0	24.0
Signage and Markings (Article 11.1)	1.0	15.0
Commercial and Residential Entrances	0.5	3.0
Nonresidential Building Entrances	1.0	15.0
On-street walkways between streets, between parking and a building entrance, or serving to meet sidewalk requirements per State, Federal and County Mobility	0.5	10.0
Storage Area security lighting	0.5	10.0
Sales and Display	0.5	24.0

PRIOR TO CONSTRUCTION OF ANY STREET LIGHT UTILITIES WITHIN THE PUBLIC RIGHT-OF-WAY, SUBMIT A COPY OF THE EXECUTED DUKE ENERGY STREET LIGHT SERVICE AGREEMENT TO TERRY THOMPSON, CITY OF DURHAM DEPARTMENT OF TRANSPORTATION. THE TERMS OF THE SERVICE AGREEMENT WILL BE IN ACCORDANCE WITH DEPARTMENTAL STANDARDS.

3 / C500
25' PARKING AREA LIGHT



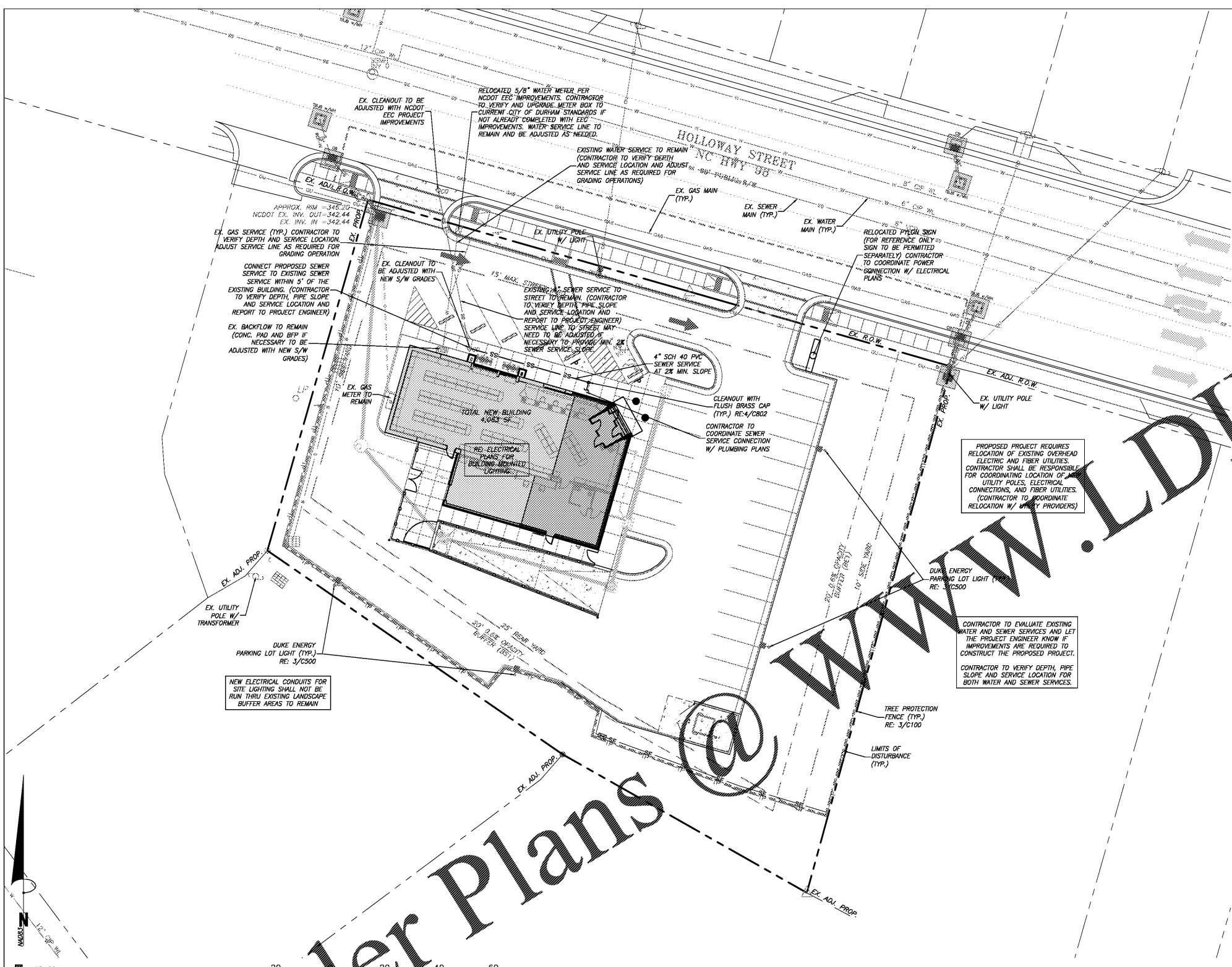
- NOTES:
- PROPOSED SITE LIGHTING HAS BEEN COORDINATED WITH TOM GRANTHAM FROM DUKE ENERGY, EMAIL: TOM.GRANTHAM@DUKE-ENERGY.COM, PHONE: 704 519 6702
 - PROPOSED LIGHT FIXTURE SHALL BE DUKE ENERGY "ROADWAY LED". LIGHT FIXTURE SHALL BE BLACK AND MOUNTED NO HIGHER THAN 25 FEET FROM ADJACENT GROUND ELEVATION.
 - PROPOSED LIGHT POLE SHALL BE DUKE ENERGY FIBERGLASS LIGHT POLE. LIGHT POLE SHALL BE BLACK.
 - CONTRACTOR SHALL COORDINATE LIGHT FIXTURE AND POLE INSTALLATION WITH DUKE ENERGY.

CITY OF DURHAM
PUBLIC WORKS DEPARTMENT
APPROVED

ENGINEERING	DATE
STORM WATER	DATE
TRANSPORTATION	DATE
	DATE
	DATE

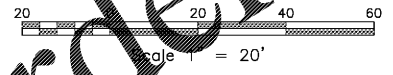
4/C500
UTILITY NOTES

- ALL WORK TO BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR WATER DISTRIBUTION AND WASTEWATER COLLECTION SYSTEMS OF THE CITY OF DURHAM STANDARDS AND POLICIES. INSTALLATION, TESTING, AND CERTIFICATION OF BACKFLOW DEVICES SHALL BE IN ACCORDANCE WITH THE DURHAM CROSS CONNECTION CONTROL ORDINANCE AND MANUAL.
- CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND DEPTHS PRIOR TO MOBILIZATION. REPORT THE RESULTS TO THE ENGINEER OF RECORD. NO ADDITIONAL COMPENSATION SHALL BE PROVIDED FOR WORK THAT MUST BE REDONE IF CONFLICTS ARE NOT REPORTED TO THE ENGINEER PRIOR TO BEGINNING INSTALLATION.
- ALL UTILITY WORK SHALL CONFORM TO APPLICABLE CITY AND STATE CODES.
- 6" SANITARY SEWER WILL BE INSTALLED AT A MINIMUM SLOPE OF 1.0%. 4" SANITARY SEWER WILL BE INSTALLED AT A MINIMUM SLOPE OF 2.0%.
- CLEANOUTS ON A 4" SANITARY SEWER LATERAL WILL BE INSTALLED AT A MAXIMUM OF 50 FEET APART. CLEANOUTS ON A 6" SANITARY SEWER LATERAL WILL BE INSTALLED AT A MAXIMUM OF 75 FEET APART.
- ALL CLEANOUTS LOCATED IN PAVEMENT AND/OR VEHICULAR USE AREAS WILL BE TRAFFIC BEARING TO WITHSTAND A H-20 LOADING.
- ALL WATER AND SEWER LINES ARE TO BE PRIVATE UNLESS OTHERWISE NOTED.
- PVC SANITARY SEWER SHALL HAVE A MINIMUM COVER OF 5 FEET IN STREETS AND 4 FEET IN OUTFALLS.
- POWER, TELEPHONE, AND GAS SERVICES SHALL BE UNDERGROUND. ACCESS AND SERVICE ROUTES TO BE COORDINATED WITH THE PUBLIC UTILITIES AND THE DEVELOPER.



Order Plans

1/C500
UTILITY AND SITE LIGHTING PLAN
SCALE: 1" = 20'



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NC BOARD OF EXAMINERS FOR ENGINEERS AND SURVEYORS LIC# C-1209

NC BOARD OF LANDSCAPE ARCHITECTS LIC# 104



Project
HOLLOWAY STREET ABC STORE

1928 AND 1930 HOLLOWAY STREET DURHAM, NC 27707
DURHAM COUNTY NC

P.I.N. 0831-12-95-2949
0831-12-95-3944

Job Number 1865
Drawn A.P. ED
Checked A.P. PBR
Date 10/11/2019
Revisions 1. 10/29/2019 COMMENTS
2. 11/21/2019 COMMENTS
3. 12/20/2019 BID PLANS

CONSTRUCTION DRAWINGS NOT ISSUED FOR CONSTRUCTION

Sheet Title
UTILITY AND SITE LIGHTING PLAN

Sheet Number
C500