

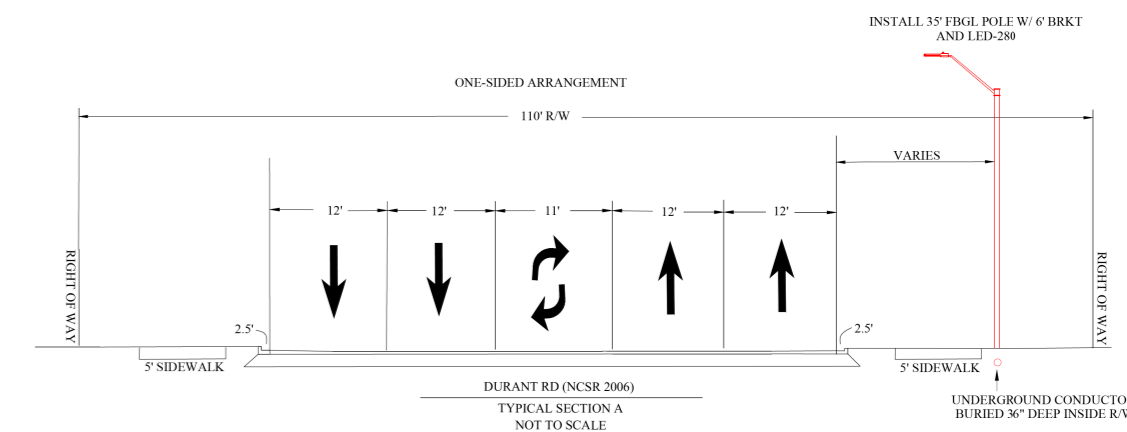
NOTES

- LIGHTING LEVELS ARE BASED ON A ONE-SIDED LIGHTING ARRANGEMENT FOR THE ROADWAY.
- ALL LUMINAIRES WILL BE:  
150 LED ROADWAY TYPE III, 4000K, RECTANGLE PATTERN WITH PHOTOCELLS AND BALLAST, RATED: 12,920 LUMENS 240V  
280 LED ROADWAY TYPE III, 4000K, RECTANGLE PATTERN WITH PHOTOCELLS AND BALLAST, RATED: 25,050 LUMENS 240V.
- ALL LIGHTING WITH UNDERGROUND SERVICE WILL BE INSTALLED ON NEW FIBERGLASS POLES LOCATED INSIDE OF ROAD R/W.
- MOUNTING HEIGHT FOR LIGHTING FIXTURES: 35' WITH 6' BRACKET ON NEW FIBERGLASS POLES.
- MINIMUM SETBACK OF NEW LIGHTING POLES IS 12' BACK OF TRAVEL LANE WHERE CURB AND GUTTER EXISTS. WHERE POLES ARE BEING INSTALLED BEHIND GUARDRAIL, MINIMUM SETBACK IS 3.5' BEHIND ROADSIDE FACE OF GUARDRAIL. SEE DRAWING FOR DETAILS.
- ALL POWER SOURCES WILL BE FROM DUKE ENERGY-PROGRESS FACILITIES.
- ALL CONSTRUCTION WILL COMPLY WITH NESC REQUIREMENTS AND DUKE ENERGY-PROGRESS SPECIFICATIONS. REFER TO THE DUKE ENERGY-PROGRESS DRAWINGS LISTED.
- THIS IS AN NCDOT ROADWAY. APPROVED NCDOT ENCROACHMENT MUST BE ON-SITE DURING CONSTRUCTION.

(NCSR 2006) DURANT RD

IES REQUIREMENTS	ACTUAL
COLLECTOR/INTERMEDIATE	
AVE. MAINT. FC :	0.8 MIN. 1.07 MAX.
AVE. / MIN. RATIO :	4:1 MAX. 3.52:1
VEILING LUM. RATIO :	0.4:1 MAX. 0.36:1

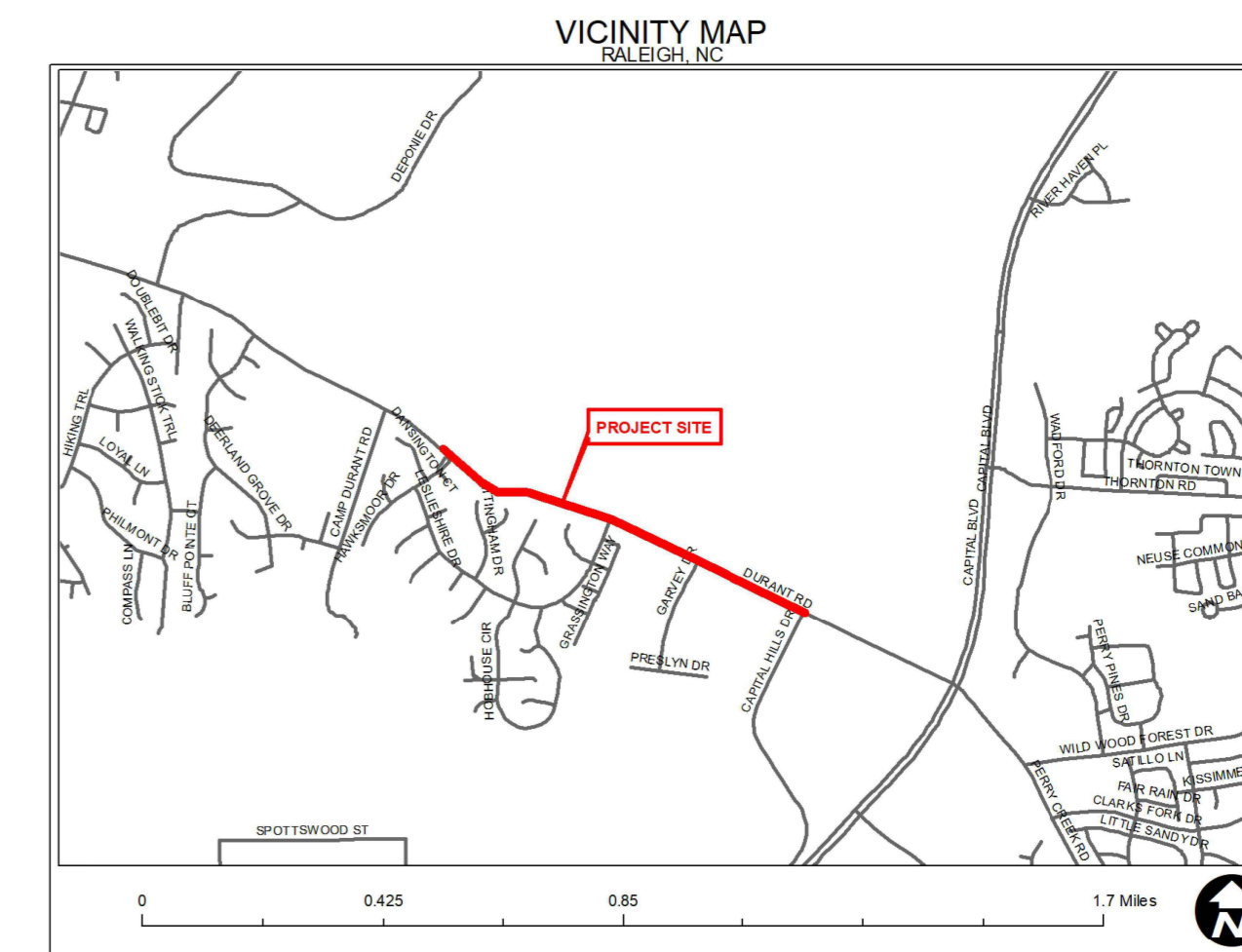
LIGHTING LEVELS CALCULATED USING ALADAN/LITEPRO  
AVG DAILY TRAFFIC: 17,000  
DESIGN SPEED LIMIT: 45 MPH  
ACTUAL SPEED LIMIT: 45 MPH  
AVG SPAN DISTANCE: 205 FEET



PROPOSED	EXISTING	REMOVE	ABANDON	LEGEND
				LED LUMINAIRE
				DECORATIVE LUMINAIRE
				FIBERGLASS/STEEL LIGHTING POLE
				WOOD POLE
				FOREIGN POLE
				HAWKSHOOR POLE (NEW/OLD)
				UNDERGROUND CONDUIT
				PROPERTY CONDUIT UNDERGROUND
				PROPERTY CONDUIT ABOVE GROUND
				RIGHT OF WAY
				PROPERTY LINE
				INSTALL CONDUIT
				EXISTING CONDUIT
				EXISTING SPAN GUY
				ABOVE GROUND PEDESTAL
				FLUSH MOUNTED 12\"/>

FOR CONSTRUCTION DETAILS, REFER IN PARTICULAR TO THE FOLLOWING PE SPECIFICATION DRAWINGS

DRAWING NUMBER	DRAWING TITLE
30.09-101	GRAY FBGL POLE LIGHTING INSTALLATION
30.02-120	LIGHTING BRACKETS FOR STEEL & FBGL POLES
30.08-124	MOUNTING HEIGHT FOR LUMINAIRES
03.02-100	SECONDARIES AND SERVICES
30.02-120	LIGHTING BRACKETS FOR WOOD POLES



**SAFETYFirst**

PERSONAL ACCOUNTABILITY  
ACTIVE GAMING  
HAZARD RECOGNITION

**Safety Reminders / Adverse Conditions**

REMEMBER: Work zone area conditions may have changed for this job! Everyone is responsible for verifying the above safety information is correct prior to any work being performed each day.

**WZS: REMEMBER "YOUR CIRCLE OF SAFETY"**

WZS: SET PROPER WORK ZONE NEEDED

WZS: SET PROPER SIGNS, CONES, AND BARRICADES

WZS: REMEMBER WALK AROUNDS AND PRETRIP

LIGHTING DESIGN TOLERANCE

The calculated footcandle light levels in this lighting design are predicted values and are based on specific information that has been supplied to Duke Energy. Any inaccuracies in the supplied information, differences in luminaire installation, lighted area geometry including elevation differences, reflective properties of surrounding surfaces, obstructions (foliage or otherwise) in the lighted area, or lighting from sources other than listed in this design may produce different results from the predicted values. Normal tolerances of voltage, lamp output, and ballast and luminaire manufacture will also affect results.



PROPRIETARY & CONFIDENTIAL

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NO.	DATE	REVISION	BY

STREET LIGHTING ARRANGEMENT FOR (NCSR 2006) DURANT RD	
Designed by	DUKE ENERGY PROGRESS LIGHTING SOLUTIONS
Reviewed by	JESSICA WESTERVELT Scale 1" = 50'
Date	8/03/2021 Size Drawing size "D"
Description	WO # 31453962 (UG); WO # 28952152 (OH)
Drawing No.	53962 Sht. 1 OF 2

REVISIONS

5/14/19

9/13/2021