	NERAL NOTES	SCOPE OF
1.	CIRCUIT AND JUNCTION BOX LOCATIONS MAY BE FIELD ADJUSTED AS REQUIRED TO STAY WITHIN THE LIMITS OF CONSTRUCTION, WITHIN RIGHT-OF-WAY, OUT OF DITCH LINES, AWAY FROM FENCE POSTS, GUARDRAILS AND CABLE GUIDERAILS, AND TO CLEAR OBSTRUCTIONS. ADJUSTMENTS RESULTING IN AN OVERALL INCREASE OF 3% OR MORE TO ANY CIRCUIT LENGTH REQUIRES APPROVAL FROM THE ENGINEER.	PLACE ROADW INSTALLING UNDERGROUND
2.	INSTALL ALL BORE PITS OUTSIDE THE CLEAR ZONE, AS DEFINED BY THE 2011 AASHTO ROADSIDE DESIGN GUIDE OR AS DIRECTED BY THE ENGINEER.	DESIGN C
3.	LOCATE ALL JUNCTION BOXES OUTSIDE CLEAR ZONE AND IN AN AREA UNLIKELY TO BE USED BY TRAFFIC.	0.8 AVERAGE
4.	INSTALL RIGID GALVANIZED CONDUIT (RGC) ABOVE GROUND, AND POLYVINYL CHLORIDE (PVC) SCHEDULE 40 CONDUIT UNDERGROUND, EXCEPT AS MODIFIED ON THESE PLANSHEETS OR IN APPLICABLE SECTIONS OF THE ROADWAY STANDARD DRAWINGS FOR THIS PROJECT.	4:1 AVERAGE 2018 AASHTO 2013 AASHTO FOR HIGHWAY
6.	ALL IN GROUND JUNCTION BOXES DEPTHS SHALL BE TO UNLESS OTHERWISE NOTED. SEE DETAIL SHEETS FOR FORMED OPENING DEPTHS. CONTRACTOR SHALL RECORD THE GPS COORDINATES OF EACH JUNCTION BOX WITHIN 3' ACCURACY, IN THE JUNCTION BOX SUMMARY, TABLE "C". PROVIDE A COPY OF THE JUNCTION BOX SUMMARY WITH THESE COORDINATES TO THE LIGHTING ENGINEER DURING PROJECT INSPECTION. COORDINATES ARE NOT BEQUIRED FOR FORMED OPENINGS	AND LATEST FATIGUE CAT DESIGN LIGH 2020 NATION 2011 AASHTO
7.	POLE NUMBERING CONVENTION: CONTROL SYSTEM-POLE #-CKT # (A-3-2).	
8.	JUNCTION BOXES SHOWN NEAR LIGHT STANDARDS (LSJB & HMJB) ARE SHOWN FOR CLARITY. THESE JUNCTION BOXES ARE TO BE USED AS A TEE POINT FOR CIRCUITRY TO THE STANDARD, AND SHALL BE INSTALLED FOR BEST ALIGNMENT OF CIRCUITRY WHILE MAINTAINING THE OFFSETS SHOWN IN TABLE "C". SEE STANDARD DRAWINGS 1401.01 AND 1406.01 FOR INSTALLATION DETAILS.	
9.	SERVICE POLE SHALL NOT BE INSTALLED PRIOR TO COORDINATION WITH T LOCAL UTILITY. PROVIDE PROOF OF COORDINATION AND PROOF OF NEED THE ENGINEER AFTER CONSULTING WITH THE LOCAL UTILITY. THE SERVI POLE MAY BE DELETED FROM THE CONTRACT IF NOT REQUIRED. REFER TO ARTICLE 1407-3 OF THE 2024 NCDOT STANDARD SPECIFICATIONS FOR ROA	HE TO CE DS
10.	WHERE A CURRENT TRANSFORMER (CT) CABINET IS REQUIRED, THE CT CAB AND ASSOCIATED HARDWARE ARE INCIDENTAL TO THE PAY ITEM FOR THE LIGHTING CONTROL PANEL.	INET
Δ N	IOTES	
1	LOCATE PROPOSED CONTROL SYSTEM IN AN AREA ACCESSIBLE FOR MAINTENANCE VEHICLES AND OUTSIDE OF CLEAR ZONE AS DEFINED BY THE 2011 AASHTO ROADSIDE DESIGN GUIDE.	
2	AT MANY LOCATIONS ON SHEET E-2, THERE IS VERY LITTLE ROOM BETWEEN THE BACK OF PROPOSED GUARDRAIL AND RIGHT-OF-WAY. THE SYMBOLOGY ON THE PLANS APPEARS TO SHOW THE LIGHT STANDARD AND OR JUNCTION BOX OUTSIDE OF THE RIGHT-OF-WAY OR IN THE PROPOSED GUARDRAIL. THE CONTRACTOR SHALL INSTALL ALL THE LIGHT STANDARDS, JUNCTION BOXES AND FEEDER CIRCUITS IN THE GRASSY STRIP BETWEEN THE BACK OF PROPOSED SIDEWALK AND INSIDE THE RIGHT-OF-WAY.	
\wedge	INSTALL DUCT FOR BEST ALIGNMENT OF CIRCUITRY.	

PLANS AND DETAILS FOR PROPOSED LIGHTING /ELECTRICAL CONSTRUCTION

OF WORK

ADWAY LIGHTING SYSTEM INTO SERVICE BY PROVIDING AND NG LIGHT STANDARDS WITH LIGHT EMITTING DIODE LUMINAIRES, UND CIRCUITRY, CONTROL SYSTEM AND JUNCTION BOXES.

ROADWAY STANDARDS

THE FOLLOWING ROADWAY ENGLISH STANDARDS AS APPEAR IN "NCDOT ROADWAY STANDARD DRAWINGS", ROADWAY DESIGN UNIT-N.C. DEPARTMENT OF TRANSPORTATION RALEIGH, N.C., DATED JANUARY 2024 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD NO.	TITLE
1404.01	LIGHT STANDARDS
1405.01	STANDARD FOUNDATION
1406.01	LIGHT STANDARD LUMINAIRES
1407.01	ELECTRIC SERVICE POLE AND LATERAL
1408.01	LIGHT CONTROL SYSTEM
1409.01	ELECTRICAL DUCT
1410.01	FEEDER CIRCUITS
1411.01	ELECTRICAL JUNCTION BOXES

ALL WORK SHALL BE IN CONFORMANCE WITH DIVISION 14 OF THE STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES, DATED JANUARY 2024.

CRITERIA

GE FOOTCANDLE ON TRAVEL LANES

AGE TO MINIMUM UNIFORMITY RATIO ON TRAVEL LANES

ITO ROADWAY LIGHTING DESIGN GUIDE

TO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS WAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS, 6TH EDITION ST INTERIM SPECIFICATIONS VALID AT THE TIME OF LETTING

ATEGORY II SHALL BE USED IN DESIGN GHT STANDARD SUPPORT FOR BASIC WIND SPEED OF 70 MPH

ONAL ELECTRICAL CODE

TO ROADSIDE DESIGN GUIDE

TABLE "A" CIRCUITRY CONDUCTOR CONDUIT TYPE & SIZE				
PLAN SYMBOL	DESCRIPTION		DESCRIPTION CONTRACT ITEM	
8	2 #8Ø 1 #10G 1.5″ P	2 AWG SIZE 8 CONDUCTOR (BK & RD) 1 AWG SIZE 10 GROUNDING CONDUCTOR 1.5" PVC CONDUIT	2 - 8 W/G FEEDER CIRCUIT IN 1.5" CONDUIT	
*8	2 #8Ø 1 #10G	2 AWG SIZE 8 CONDUCTOR (BK & RD) 1 AWG SIZE 10 GROUNDING CONDUCTOR	2 - 8 W/G FEEDER CIRCUIT	



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	COMPUTED BY: SAM		DATE: <u>03/11/24</u>
HMJB	HIGH MAST JUNCTION BOX	CSJB	CONTROL SYSTEM JUNCTION BOX
LED	LIGHT EMITTING DIODE	LSJB	LIGHT STANDARD JUNCTION BOX
IGJB	IN GROUND JUNCTION BOX	НМ	HIGH MAST
SER LAT	SERVICE LATERAL	G	GROUND
Ø	PHASE	Ν	NEUTRAL
MH	MOUNTING HEIGHT	СКТ	CIRCUIT
TL	TRENCHLESS	С	CONDUIT
LT	LIGHT	RGC	RIGID GALVANIZED STEEL CONDUIT
BD	BURIED	PVC	PVC SCHEDULE 40 CONDUIT

DATE:_

CHECKED BY: