LIGHTING /ELECTRICAL CONSTRUCTION SCOPE OF WORK  $\triangle$  NOTES RENOVATE EXISTING ROADWAY LIGHTING SYSTEM BY REPLACING ALL HIGH INSTALL ALL BORE PITS OUTSIDE THE CLEAR ZONE, AS DEFINED BY PRESSURE SODIUM (HPS) HIGH MAST LUMINAIRES WITH LIGHT EMITTING THE 2011 AASHTO ROADSIDE DESIGN GUIDE OR AS DIRECTED BY THE DIODE LUMINAIRES (LED) HIGH MAST LUMINAIRES. ALSO RELOCATE HIGH ENGINEER. MAST POLE, REMOVE FEEDER CIRCUIT CONDUCTORS IN CONFLICT WITH CONSTRUCTION AND INSTALL NEW JUNCTION BOX. LOCATE ALL JUNCTION BOXES OUTSIDE CLEAR ZONE AND IN AN AREA 2 UNLIKELY TO BE USED BY TRAFFIC. INSTALL RIGID GALVANIZED CONDUIT (RGC) ABOVE GROUND, AND POLYVINYL CHLORIDE (PVC) SCHEDULE 40 CONDUIT UNDERGROUND,  $\sqrt{3}$ EXCEPT AS MODIFIED ON THESE PLANSHEETS OR IN APPLICABLE DESIGN CRITERIA SECTIONS OF THE ROADWAY STANDARD DRAWINGS FOR THIS PROJECT. TYPE PC18 JUNCTION BOXES ARE 18" L X 12" W X 18" H. UNLESS 0.8 AVERAGE FOOTCANDLE ON TRAVEL LANES OTHERWISE NOTED ON THE PLANS, ALL JUNCTION BOXES ARE TO BE 4:1 AVERAGE TO MINIMUM UNIFORMITY RATIO ON TRAVEL LANES TYPE PC18 2005 AASHTO ROADWAY LIGHTING DESIGN GUIDE RELOCATE EXISTING HIGH MAST HM1 AS SHOWN. ABANDON OR REMOVE POLE  $/_5$  FOUNDATION. REMOVE AND DISPOSE OF EXISTING JUNCTION BOX JB4. 2014 NATIONAL ELECTRICAL CODE INSTALL NEW JUNCTION BOX JB11 WITHIN 10' OF FOUNDATION OF RELOCATED 2011 AASHTO ROADSIDE DESIGN GUIDE HM1 AND INTERCEPT EXISTING CIRCUITRY. INSTALL NEW CONDUCTOR FROM JB11 TO RELOCATED HM1. 6 ORIGINAL LIGHTING PLANS GENERATED FROM TIP PROJECT I-3605.

TABLE "A" CIRCUITRY CONDUCTOR CONDUIT TYPE & SIZE PLAN DESCRIPTION CONTRACT ITEM SYMBOL 2 #8  $\emptyset$  | 2 AWG SIZE 8 CONDUCTOR (BK & RD) 2 - 8 W/G FEEDER CIRCUIT IN 1.5" CONDUIT 1 #10G | 1 AWG SIZE 10 GROUNDING CONDUCTOR 8 1.5" P | 1.5" PVC CONDUIT 2 #80 | 2 AWG SIZE 8 CONDUCTOR (BK & RD) \*8 2 - 8 W/G FEEDER CIRCUIT 1 #10G | 1 AWG SIZE 10 GROUNDING CONDUCTOR

ENSURE THAT LED LUMINAIRES WILL BE ABLE TO BE PROPERLY MOUNTED

 $\sqrt{7}$  ON THE EXISTING 24" TENON ARMS ON THE HIGH MAST CARRIER RING.

PROVIDE LONGER TENON ARMS IF REQUIRED.

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## PLANS AND DETAILS FOR PROPOSED

## **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 2012 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD NO.	TITLE
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 2012.



TABLE "B" JUNCTION BOX SUMMARY					
NUMBER	LOCATION	ТҮРЕ		SHEET	
JB1	EXISTING	PC18		E2	
JB2	EXISTING	PC18		E2	
JB3	EXISTING	PC18		E2	
JB4	EXISTING - TO BE REMOVED	PC18		E2	
JB5	EXISTING	PC18		E2	
JB6	EXISTING	PC18		E2	
JB7	EXISTING	PC18		E2	
JB8	EXISTING	PC18		E2	
JB9	EXISTING	PC18		E2	
JB10	EXISTING	PC18		E2	
JB11	-LRPA- STA. 15+10 38' LT	PC18		E2	
TOTALS		1			



ARRR	FVT	AT.	TON	S

BD LT JA MH Ø SER LAT ABN	BURIED LIGHT JACKED MOUNTING HEIGHT PHASE SERVICE LATERAL ABANDON OR REMOVE	PVC RGC C CKT N G HM	PVC SCHEDULE 40 CONDUIT RIGID GALVANIZED STEEL CONDUIT CONDUIT CIRCUIT NEUTRAL GROUND HIGH MAST
		3H	DATE: <u>11/3/15</u>
	CHECKED BY:	Έ	DATE: 11/3/2015