\triangle NOTES SCOPE OF WORK PLACE ROADWAY LIGHTING SYSTEM INTO SERVICE BY PROVIDING AND AT THESE LOCATIONS, PROVIDE ELECTRICAL DUCT IN ACCORDANCE INSTALLING 120',100' AND 80' HIGH MOUNT STANDARDS WITH LIGHT WITH NEC REQUIRMENTS FOR AN APPROVED RACEWAY FOR ELECTRICAL EMITTING DIODE LUMINAIRES, UNDERGROUND CIRCUITRY, UNDERPASS CIRCUITS. SEE TABLE "C" LIGHTING, LIGHTING FOR PEDESTRIAN CULVERTS, CONTROL SYSTEM INSTALL ALL BORE PITS OUTSIDE THE CLEAR ZONE, AS DEFINED BY AND JUNCTION BOXES. THE 2011 AASHTO ROADSIDE DESIGN GUIDE OR AS DIRECTED BY THE ENGINEER. LOCATE ALL JUNCTION BOXES OUTSIDE CLEAR ZONE AND IN AN AREA $\sqrt{3}$ UNLIKELY TO BE USED BY TRAFFIC. DESIGN CRITERIA LOCATE PROPOSED CONTROL SYSTEM IN AN AREA ACCESSIBLE 4 FOR MAINTENANCE VEHICLES AND OUTSIDE OF CLEAR ZONE 0.8 AVERAGE FOOTCANDLE ON TRAVEL LANES AS DEFINED BY THE 2011 AASHTO ROADSIDE DESIGN GUIDE. 4:1 AVERAGE TO MINIMUM UNIFORMITY RATIO ON TRAVEL LANES INSTALL RIGID GALVANIZED CONDUIT (RGC) ABOVE GROUND, AND POLYVINYL CHLORIDE (PVC) SCHEDULE 40 CONDUIT UNDERGROUND, 2005 AASHTO ROADWAY LIGHTING DESIGN GUIDE 25 EXCEPT AS MODIFIED ON THESE PLANSHEETS OR IN APPLICABLE SECTIONS OF THE ROADWAY STANDARD DRAWINGS FOR THIS PROJECT. 2013 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS, 6TH EDITION TYPE PC18 JUNCTION BOXES ARE 18" L X 12" W X 18" H. UNLESS AND LATEST INTERIM SPECIFICATIONS VALID AT THE TIME OF LETTING 26 OTHERWISE NOTED ON THE PLANS. ALL JUNCTION BOXES ARE TO BE TYPE PC18 FATIGUE CATEGORY II SHALL BE USED IN DESIGN TYPE PC36 JUNCTION BOXES ARE 36" L X 24" W X 18" H. DESIGN HIGH MOUNT SUPPORT FOR BASIC WIND SPEED OF 90 MPH JACK 2" ELECTRICAL DUCT BETWEEN SINGLE ARM STANDARDS SA3 TO SA4 DESIGN HIGH MOUNT STANDARD FOUNDATION FOR BASIC WIND 8 AND SA5 TO SA6 UNDER THE PAVED SHOULDER. SPEED OF 90 MPH. ANY CONTRACTOR-DESIGNED SITE SPECIFIC FOUNDATION DESIGN SHALL BE DESIGNED FOR THE SAME WIND SPEED PLACE SINGLE ARM STANDARD ACCORDING TO DETAIL DRAWING 1404D01 (SHEET 1 OF 3) PLANSHEET E5 AND, WHERE REQUIRED, PLACE JUNCTION 2014 NATIONAL ELECTRICAL CODE <u>_9</u> BOX WITHIN 2' OF SINGLE ARM STANDARD. 2011 AASHTO ROADSIDE DESIGN GUIDE ADDITIONAL JUNCTION BOXES ARE REQUIRED AS PART OF GENERIC 10 LIGHTING PAY ITEMS AS SHOWN IN HIGH MAST STANDARD FOUNDATION.

TABLE "A" CIRCUITRY CONDUCTOR CONDUIT TYPE & SIZE PLAN DESCRIPTION CONTRACT ITEM SYMBOL 2 #8 \emptyset | 2 AWG SIZE 8 CONDUCTOR (BK & RD) 1 #10G | 1 AWG SIZE 10 GROUNDING CONDUCTOR 2 - 8 W/G FEEDER CIRCUIT IN 1.5" CONDUI 1.5" P | 1.5" PVC CONDUIT $2 \# 8 \emptyset$ 2 AWG SIZE 8 CONDUCTOR (BK & RD) *8 2 - 8 W/G FEEDER CIRCUIT 1 #10G | 1 AWG SIZE 10 GROUNDING CONDUCTOR 2 #6Ø|2 AWG SIZE 6 CONDUCTOR (BK & RD) 6 1 #8G | 1 AWG SIZE 8 GROUNDING CONDUCTOR 2 - 6 W/G FEEDER CIRCUIT IN 1.5" CONDUI 1.5" P | 1.5" PVC CONDUIT 2 #6 \emptyset | 2 AWG SIZE 6 CONDUCTOR (BK & RD) *6 2 - 6 W/G FEEDER CIRCUIT 1 #10G | 1 AWG SIZE 8 GROUNDING CONDUCTOR 2 #4 \emptyset | 2 AWG SIZE 4 CONDUCTOR (BK & RD) 2 - 4 W/G FEEDER CIRCUIT IN 1.5" CONDUI 4 1 #6G | 1 AWG SIZE 6 GROUNDING CONDUCTOR 1.5" P | 1.5" PVC CONDUIT 2 #4 \emptyset | 2 AWG SIZE 4 CONDUCTOR (BK & RD) *4 2 - 4 W/G FEEDER CIRCUIT #6G | 1 AWG SIZE 6 GROUNDING CONDUCTOR

LIGHT CONTROL SYSTEM, AND STANDARD FOUNDATION. THESE JUNCTION

PAY ITEMS. SEE LIGHTING DETAIL SHEET E6 INCLUDED IN THESE PLANS.

BOXES ARE TO BE PAID FOR AS PART OF THE RESPECTIVE LIGHTING

PLANS AND DETAILS FOR PROPOSED LIGHTING /ELECTRICAL CONSTRUCTION

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
1401.01	HIGH MOUNT STANDARD (USE ATTACHED SHEET 1401D01 IN LIEU OF STANDARD DRAWING 1401 01 SHEET 1)
1402.01	HIGH MOUNT FOUNDATION (USE ATTACHE SHEET 1402D01 IN LIEU OF STANDARD DRAWING 1402.01. SHEET 1)
1403.01	HIGH MOUNT LUMINAIRES (USE ATTACHE SHEET 1403D01 IN LIEU OF STANDARD DRAWING 1403.01. SHEET 1)
1404.01	LIGHT STANDARDS (USE ATTACHED DETA SHEET 1404D01 IN LIEU OF STANDARD DRAWING 1404.01, SHEET 1)
1405.01 1406.01	STANDARD FOUNDATION LIGHT STANDARDS LUMINAIRES (USE AT SHEET 1406D01 IN LIEU OF STANDARD DRAWING 1406.01, SHEET 1)
1407.01 1408.01 1409.01 1410.01 1411.01 1412.01	ELECTRIC SERVICE POLE AND LATERAL LIGHT CONTROL SYSTEM ELECTRICAL DUCT FEEDER CIRCUITS ELECTRICAL JUNCTION BOXES UNDERPASS LIGHTING

ALL WORK SHALL BE IN CONFORMANCE WITH DIVISION 14 OF THE STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES, DATED JANUARY 2012.

		TABLE JUNCTION BO	"B" DX SUMMARY			
	NUMBER	LOCATION	T	YPE	SHEET	
	JB1	STA. 40+28 -Y1- 65' LT		PC36	E2	
	JB2	STA. 37+20 -Y1- 48' LT		PC36	E2	
•	JB3	STA.37+20 -Y1- 84' RT		PC36	E2	
_ /10	JB4	STA. 37+92 -Y1-160' RT (HM1) PC18		E2	
	JB5	STA. 36+30 -L- 85' RT	PC18		E2	
	JB6	STA. 36+30 -L- 75' LT	PC18		E2	
	JB7	STA. 11+25 -LPB- 60' RT	(HM2) PC18		E2	
	JB8	STA. 36+85 -L- 75' LT	PC18		E2	
	JB9	STA. 32+66 -L- 95' LT (H	M3) PC18		E2	
	JB10	ACROSS RAMP FROM JB9	PC18		E2	
г	JB11	STA. 29+50 -L- 95' LT	PC18		E2	
	JB12	STA. 33+95 -Y1- 50' LT	PC18		E2	
	JB13	STA. 25+24 -RPD- 32' RT	(HM5) PC18		E2	
	JB14	STA. 35+32 -Y1- 66' LT	PC18		E2	
-1	JB15	STA. 36+42 -Y1- 100' LT	(HM4) PC18		E2	
т	JB16	STA. 19+10 -RPD- 42' LT	PC18		E2	
	JB17	STA. 16+46 -RPD- 36' LT	PC18		E2	
	JB18	STA. 16+46 -RPD- 68' RT	(HM6) PC18		E2	
	JB19	STA. 13+72 -RPD- 32' RT	PC18		E2	
	JB20	STA. 52+72 -L- 72' LT	PC18		E2	
т						
	TOTALS		11*	3		
*	DOES NOT	INCLUDE JUNCTION BOXES LO ABBREVIATIONS	CATED AT HIG	H MAST.	SEE NOTE	E 10.
	DUD		C SCHEDULE 40		т	
LT	LIG	HT RGC RI	GID GALVANIZE	D STEEL	CONDUIT	i.
JA	JAC	KED C CO				
MH グ	MOU	NTING HEIGHT CKI CI				
Ø SEF	R LAT SER	VICE LATERAL G GR HM HI	OUND GH MAST			

	ELECTR (ESTIMAT	TABLE ICAL DU ED LENG	"C" CT SUM GTH IN	MARY FEET)				
			ТҮРЕ					
			JACKED (JA) FEET			BURIED (BD) FEET		
LOCATION	RACEWAY	SHEET	SIZE 2″	SIZE 3″	SIZE 4″	SIZE 2″	SIZE 3″	SIZE 4″
STA. 37+20 -Y1-	JB2 - JB3	E2				130		
STA. 37+20 -Y1-		E2			100			
STA. 35+20 -L-	JB5 - JB6	E2				150		
STA. 35+20 -L-		E2			130			
UNDER DR. MLK JR WAY		E2	280					
UNDER DR. MLK JR WAY		E2	280					
STA. 11+60 -LPB-		E2		85				
NEAR HM1		E2		30				
STA. 25+24 -RPD-		E2					100	
STA. 16+96 -TRAIL		E2					40	
STA. 16+46 -RPD-		E2					50	
STA. 52+72 -L-		E2		140				
TOTALS			560	255	230	280	190	



COMPUTED BY:	AB	DATE:
CHECKED BY:		DATE: