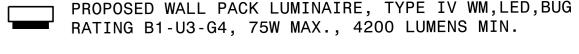
DOCUMENT NOT CONSIDERED FINAL

SEAL 022582 6/3/2016

PROPOSED CONTROL SYSTEM, SEE DETAIL SHEET E5.



1280 LUMENS, SEE SPECIAL PROVISIONS FOR COLOR TEMPERATURE

REFERENCE TO CORRESPONDING NOTE AS NUMBERED

LIGHT SPREAD ANGLE. SEE SHEET E4 FOR INSTALLATION DETAILS.



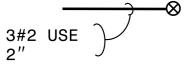


PROPOSED 4 FT LED AESTHETIC LIGHTING LUMINAIRE 15W/775 LUMENS MINIMUM PER FOOT,

4FT LUMINAIRES. REFER TO LOAD SCHEDULES FOR



PROPOSED FEEDER CIRCUIT CONTROL SYSTEM(A), √A1 CIRCUIT(1) PLAN SYMBOL (6) SEE TABLE A, √6 THIS SHEET



2", 3" OR 4" ELEC. DUCT JA & BD

3#1/0 USE CONDUCTORS 2" CONDUIT

TYPE (JA) OR (BD) LOCATION: SEE TABLE C, THIS

UNLESS ALL SIGNATURES COMPLETED

LEGEND

BREAKER SIZE SHOWN IN LOAD SCHEDULES, SHEETS E2 & E3

RATING B1-U3-G4, 75W MAX., 4200 LUMENS MIN. PROPOSED SPOTLIGHT LUMINAIRE, 30W LED MAX,

SEE NOTE 10 FOR RECOMMENDED

PROPOSED ELECTRICAL JUNCTION BOX, PROPOSED ELECTRICAL JUNG SEE TABLE B, THIS SHEET

30 DEG. X 60 DEG. BEAM ANGLE. (COLOR TEMPERATURE TO BE DETERMINED AT MOCK-UP) SYMBOL DOES NOT REPRESENT A SPECIFIC NUMBER OF

ACTUAL NUMBER OF LUMINAIRES.



→ PROPOSED SERVICE POLE AND LATERAL 30' CLASS 4

PROPOSED ELECTRICAL DUCT SIZE 2", 3" OR 4" SHEET

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
1407.01	ELECTRIC SERVICE POLE AND LATERAL
1408.01	LIGHT CONTROL SYSTEM (SHEET 3 ONLY)
1409.01	ELECTRICAL DUCT
1410.01	FEEDER CIRCUITS
1411.01	ELECTRICAL JUNCTION BOXES
1412.01	UNDERPASS LIGHTING

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

DESIGN CRITERIA

SCOPE OF WORK

2005 AASHTO ROADWAY LIGHTING DESIGN GUIDE

CAPITAL BOULEVARD BRIDGE OVER PEACE STREET

METAL FASCIA ATTACHED TO THE GIRDER ON BOTH SIDES

METAL FASCIA ATTACHED TO THE GIRDER ON BOTH SIDES

LED WALL MOUNT UNDERPASS LIGHTS

WADE AVENUE BRIDGE OVER PEACE STREET

THIS PROJECT INCLUDES PROVIDING AND INSTALLING CONDUIT, JUNCTION

BOXES. CONTROL SYSTEMS AND DECORATIVE LIGHTING AT TWO STRUCTURES

LED AESTHETIC LIGHTING LUMINAIRES FOR BACK LIGHTING OF ARCHITECTURAL

LED AESTHETIC LIGHTING LUMINAIRES FOR BACK LIGHTING OF ARCHITECTURAL

ALONG THE PROJECT CORRIDOR. DECORATIVE LIGHTING IS AS FOLLOWS:

LED SPOTLIGHTS FOR MEDALLIONS/WALL WASH AT THE END BENTS

LED SPOTLIGHTS FOR MEDALLIONS/WALL WASH AT THE END BENTS

2014 NATIONAL ELECTRICAL CODE

2011 AASHTO ROADSIDE DESIGN GUIDE

REFER TO LIGHTING DETAILS PLAN SHEETS E6 & E7 FOR DETAILS ON

14	INSTALL PC18 JUNCTION BOX WITHIN 2 FEET OF SPOTLIGHT FOUNDATION.
15	TYPE CAST IRON JUNCTION BOXES (CIJB) ARE 12"L X 12"W X 8"H. CIJB SHALL HAVE A CONTINUOUS HINGE ON THE LID.

TABLE "A" CIRCUITRY CONDUCTOR CONDUIT TYPE & SIZE				
PLAN SYMBOL		DESCRIPTION	CONTRACT ITEM	
8	2 #8 Ø 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	

TABLE "B" JUNCTION BOX SUMMARY 6 7					
NUMBER	LOCATION	TY	PE	SHEET	
JB1	17+85 -Y1- 70' LT		PC30	E2	
JB2	17+85 -Y1- 70' RT		PC30	E2	
JB3	22+10 -FLY0VER- 50' LT	PC18		E3	
JB4	18+90 -FLYOVER- 50' RT	PC18		E3	
TOTALS		2	2		

PLANS AND DETAILS FOR PROPOSED

LIGHTING /ELECTRICAL CONSTRUCTION

TABLE "C" ELECTRICAL DUCT SUMMARY (ESTIMATED LENGTH IN FEET)									
				TYPE					
			JACKED (JA) FEET			BURIED (BD) FEET			
LOCATION	RACEWAY	SHEET	SIZE 2"	SIZE 3"	SIZE 4"	SIZE 2"	SIZE 3"	SIZE 4"	
17+85 -Y1-		E2			150				
17+85 -Y1-	JB1 - JB2	E2				170			
17+85 -Y1-	JB1 - CIJB	E2				60			
22+10 -FLY0VER-	JB3 - CIJB	E3				70			
18+90 -FLY0VER-	JB4 - CIJB	E3				70			
TOTALS					150	370			

BD	BURIED	PVC	PVC SCHEDULE 40 CONDUIT
LT	LIGHT	RGS/RGC	RIGID GALVANIZED STEEL CONDUIT
JA	JACKED	CON	CONDUIT
MH	MOUNTING HEIGHT	CKT	CIRCUIT
Ø	PHASE	N	NEUTRAL
-	SERVICE LATERAL	G HM	GROUND HIGH MAST
CIJB	CAST IRON JUNCTION	BOX	

ABBREVIATIONS

COMPUTED BY: AB DATE:_ DATE:_ CHECKED BY: PKC

 \triangle NOTES

ENGINEER.

UNLIKELY TO BE USED BY TRAFFIC.

CAPITAL BOULEVARD.

IS 14 DEGREES.

SIDEWALK.

LIGHTING LUMINAIRES ATTACHMENT DETAILS

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 THE 2011 AASHTO ROADSIDE DESIGN GUIDE OR AS DIRECTED BY THE

FLYOVER BRIDGE RESPECTIVELY, FOR CONDUIT AND AESTHETIC

INSTALL RIGID GALVANIZED CONDUIT (RGC) ABOVE GROUND, AND

POLYVINYL CHLORIDE (PVC) SCHEDULE 40 CONDUIT UNDERGROUND,

EXCEPT AS MODIFIED ON THESE PLAN SHEETS OR IN APPLICABLE

TYPE PC30 JUNCTION BOXES ARE 30" L X 17" W X 18" H.

TYPE PC18 JUNCTION BOXES ARE 18" L X 12" W X 18" H.

CAPITAL BOULEVARD BRIDGE OVER PEACE STREET.

/8\ CONNECTING CONDUCTORS TO THE WALLPACK LED LUMINAIRES AND TO

/9\ CONNECTING CONDUCTORS TO THE AESTHETIC LIGHTING LUMINAIRE

THE AESTHETIC LIGHTING LUMINAIRE CIRCUITS AL1 & AL2 ON THE

REFER TO LIGHTING DETAILS PLAN SHEETS E8 & E9 FOR DETAILS ON

CIRCUITS AL3/AL4 & AL5/AL6 ON THE WADE AVENUE BRIDGE OVER

THE SPOTLIGHT LUMINAIRE SHALL HAVE A LIGHT BEAM SPREAD THAT

INSTALL CONDUIT AND CONDUCTORS UNDER SIDEWALK. COORDINATE

/11\ WORK WITH PRIME CONTRACTOR TO INSTALL CONDUIT PRIOR TO POURING

INSTALL CONTROL SYSTEM 5.5' FROM FACE OF PROPOSED GUARDRAIL.

SPOTLIGHT LUMINAIRE SPL6 TO BE INSTALLED IN AREA WITH RIP RAP. FOUNDATION MAY BE NEAR FLUSH WITH RIP RAP AT THIS LOCATION.

HIGHLIGHTS THE DECORATIVE MEDALLION FROM THE GROUND AND SPREADS

LIGHT UP THE FACE OF THE WALL. RECOMMENDED LIGHT SPREAD ANGLE

SECTIONS OF THE ROADWAY STANDARD DRAWINGS FOR THIS PROJECT

INSTALL ALL BORE PITS OUTSIDE THE CLEAR ZONE, AS DEFINED BY

LOCATE ALL JUNCTION BOXES OUTSIDE CLEAR ZONE AND IN AN AREA

SEE LIGHTING DETAILS PLAN SHEETS E6-E7 FOR CAPITAL BOULEVARD

BRIDGE OVER PEACE STREET AND SHEETS E8-E9 FOR THE WADE AVENUE