



# PLANS AND DETAILS FOR PROPOSED LIGHTING / ELECTRICAL RENOVATION

## NOTES

- △ AT THESE LOCATIONS, PROVIDE ELECTRICAL DUCT IN ACCORDANCE WITH NEC REQUIREMENTS FOR AN APPROVED RACEWAY FOR ELECTRICAL CIRCUITS. SEE TABLE "C"
- △ REMOVE EXISTING LIGHT STANDARD. REMOVE OR ABANDON FOUNDATION.
- △ AT THESE LOCATIONS, REPLACE MISSING LIGHT STANDARD AND TRANSFORMER BASE WITH DISMOUNTED STANDARDS AND TRANSFORMER BASES FROM THE I-77 OR INDEPENDENCE BLVD INTERCHANGES. IF FOUNDATION IS PRESENT, REMOVE AND REPLACE WITH NEW. SEE SECTION 4.00 "RELOCATE LIGHT STANDARDS" IN PROJECT SPECIAL PROVISIONS.
- △ AT THESE LOCATIONS REPLACE MISSING TRANSFORMER BASE COVER. USE COVERS FROM TRANSFORMER BASES ON REMOVED POLES WHERE POSSIBLE.
- △ AT THESE LOCATIONS DISMOUNT LIGHT STANDARD, REMOVE FOUNDATION AND REMOVE DAMAGED TRANSFORMER BASE. REPLACE FOUNDATION WITH NEW. REPLACE DAMAGED TRANSFORMER BASE WITH ACCEPTABLE TRANSFORMER BASE REMOVED FROM THE I-77 OR INDEPENDENCE BLVD INTERCHANGES. SAME LIGHT STANDARD TO BE REUSED. SEE SECTION 4.00 "RELOCATE LIGHT STANDARDS" IN PROJECT SPECIAL PROVISIONS.
- △ AT THESE LOCATIONS LIGHT STANDARD AND TRANSFORMER BASE MISSING AND WILL NOT BE REPLACED. REMOVE OR ABANDON IN GROUND FOUNDATION.
- △ ATTACH CONDUIT TO STRUCTURE. SEE DETAIL SHEET E14.
- △ CAST IRON JUNCTION BOX MOUNTED TO ENDWALL (ECI). MIN SIZE: 16"L X 12"W X 8"D. SEE DETAIL SHEET E14 AND SECTION 8.00 OF PROJECT SPECIAL PROVISIONS.
- △ CONTINUE CIRCUITRY TO UNDERPASS LIGHTS. SEE DETAIL SHEET E14.
- △ CAST IRON JUNCTION BOX MOUNTED ON OUTRIGGER (OCI) BESIDE TRANSFORMER BASE. MIN SIZE: 18"L X 16"W X 8"D. SEE DETAIL SHEET E14 AND SECTION 8.00 OF PROJECT SPECIAL PROVISIONS.
- △ INSTALL RIGID GALVANIZED CONDUIT ON ENDBENT CAP.
- △ TERMINATE CIRCUIT IN THIS FOUNDATION.
- △ INSTALL ALL BORE PITS OUTSIDE THE CLEAR ZONE, AS DEFINED BY THE 2002 AASHTO ROADSIDE DESIGN GUIDE OR AS DIRECTED BY THE ENGINEER.
- △ LOCATE ALL JUNCTION BOXES IN AN AREA UNLIKELY TO BE USED BY TRAFFIC.
- △ GRADE AROUND TRANSFORMER BASES ON ALL EXISTING SINGLE ARM LIGHT STANDARDS.
- △ AT THESE LOCATIONS INSTALL LIGHT STANDARD JUCTION BOX (LSJB). SEE DETAIL SHEET E14 AND SECTION 11.00 OF PROJECT SPECIAL PROVISIONS TITLED "LIGHT STANDARD JUNCTION BOXES". MIN SIZE: 18"L X 11"W X 18"H.
- △ NOTE DELETED
- △ AT THESE LOCATIONS USE TYPE PC36 JUNCTION BOX. MIN SIZE: 36"L X 24"W X 18"H
- △ TYPE PC18 JUNCTION BOXES MIN SIZE: 18"L X 11"W X 18"H.
- △ CADD FILES GENERATED FROM ORIGINAL PLANS FOR STATE PROJECT 8.1657606 DATED JULY, 1969, AND STATE PROJECT 8.1654822 DATED JULY, 1969.

## SCOPE OF WORK

RENOVATE EXISTING ROADWAY LIGHTING SYSTEM BY REPLACING CIRCUITRY, REPLACING CONTROL SYSTEMS, UPGRADING LUMINAIRES ADDING JUNCTION BOXES AND INSTALLING 80'AND 120' HIGH MOUNT STANDARDS AND HIGH MAST LUMINAIRES.

## DESIGN CRITERIA

- 2005 AASHTO ROADWAY LIGHTING DESIGN GUIDE
- 2001 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS
- 2008 NATIONAL ELECTRICAL CODE
- 2002 AASHTO ROADSIDE DESIGN GUIDE

## 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 JULY 2006 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD NO.	TITLE
1401.01	HIGH MOUNT STANDARD
1402.01	HIGH MOUNT FOUNDATION
1403.01	HIGH MOUNT LUMINAIRES
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 JULY 2006.

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#8 Ø 1 #10G	2 AWG SIZE 8 CONDUCTOR (BK & RD) 1 AWG SIZE 10 GROUNDING CONDUCTOR	2 - 8 W/G FEEDER CIRCUIT
6	2#6 Ø 1 #8G 1.5" P	2 AWG SIZE 6 CONDUCTOR (BK & RD) 1 AWG SIZE 8 GROUNDING CONDUCTOR 1.5" PVC CONDUIT	2 - 6 W/G FEEDER CIRCUIT IN 1.5" CONDUIT
*6	2#6 Ø 1 #8G	2 AWG SIZE 6 CONDUCTOR (BK & RD) 1 AWG SIZE 8 GROUNDING CONDUCTOR	2 - 6 W/G FEEDER CIRCUIT
4	2#4 Ø 1 #6G 1.5" P	2 AWG SIZE 4 CONDUCTOR (BK & RD) 1 AWG SIZE 6 GROUNDING CONDUCTOR 1.5" PVC CONDUIT	2 - 4 W/G FEEDER CIRCUIT IN 1.5" CONDUIT
*4	2#4 Ø 1 #6G	2 AWG SIZE 4 CONDUCTOR (BK & RD) 1 AWG SIZE 6 GROUNDING CONDUCTOR	2 - 4 W/G FEEDER CIRCUIT
2	2#2 Ø 1 #4G 1.5" P	2 AWG SIZE 2 CONDUCTOR (BK & RD) 1 AWG SIZE 4 GROUNDING CONDUCTOR 1.5" PVC CONDUIT	2 - 2 W/G FEEDER CIRCUIT IN 1.5" CONDUIT
*2	2#2 Ø 1 #4G	2 AWG SIZE 2 CONDUCTOR (BK & RD) 1 AWG SIZE 4 GROUNDING CONDUCTOR	2 - 2 W/G FEEDER CIRCUIT

## LEGEND

- PROPOSED 80' HIGH MAST STANDARD W/ HM FOUNDATION DESIGNED FOR 110 MPH WINDSPEED & (6) 400W HPS, MEDIUM, CUTOFF, TYPE V HM LUMINAIRES
- PROPOSED 120' HIGH MAST STANDARD W/ HM FOUNDATION DESIGNED FOR 110 MPH WINDSPEED & (8) 750W HPS, MEDIUM, CUTOFF, TYPE V HM LUMINAIRES
- EXISTING 50' LIGHT STANDARD. REPLACE FIXTURE WITH 400W HPS, MSC, TYPE III LUMINAIRE.
- EXISTING 35' LIGHT STANDARD. REPLACE FIXTURE WITH 250W HPS, MSC, TYPE II LUMINAIRE.
- RELOCATED 50' LIGHT STANDARD. REPLACE FIXTURE WITH 400W HPS, MSC, TYPE III LUMINAIRE.
- RELOCATED 35' LIGHT STANDARD. REPLACE FIXTURE WITH 250W HPS, MSC, TYPE II LUMINAIRE.
- MISSING 35' OR 50' LIGHT STANDARD.
- PROPOSED CONTROL SYSTEM. BREAKER SIZE SHOWN IN LOAD SCHEDULE, SHEETS E4, E6, E8 & E12
- EXISTING TRANSFORMER STATION TO BE REMOVED.
- PROPOSED IN GROUND ELECTRICAL JUNCTION BOX (JB). SEE TABLE B ON SHEETS E1-B AND E1-C
- PROPOSED ENDWALL OR OUTRIGGER ELECTRICAL JUNCTION BOX (JB). SEE TABLE B & SHEET E1b
- EXISTING BRIDGE MOUNTED JUNCTION BOX.
- REFERENCE TO CORRESPONDING NOTE AS NUMBERED
- EXISTING FEEDER CIRCUIT. ABANDON.
- EXISTING FEEDER CIRCUIT TO REMAIN. NO WORK REQUIRED.
- PROPOSED FEEDER CIRCUIT CONTROL SYSTEM(A), CIRCUIT(1) PLAN SYMBOL (6) SEE TABLE A, THIS SHEET
- PROPOSED SERVICE POLE AND LATERAL 30' CLASS 4 3#1/0 USE CONDUCTORS 2" CONDUIT
- PROPOSED ELECTRICAL DUCT SIZE 2", 3" OR 4" TYPE (JA) OR (BD) LOCATION: SEE TABLE C, SHEET E1-C

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

EQUIVALENTS		
TRADE SIZE	METRIC	ENGLISH
1/2	16mm	1/2"
3/4	21mm	3/4"
1	27mm	1"
1.5	41mm	1 1/2"
2	53mm	2"
3	78mm	3"

## ABBREVIATIONS

BD	BURIED	PVC	PVC SCHEDULE 40 CONDUIT
LT	LIGHT	RGC	RIGID GALVANIZED STEEL CONDUIT
JA	JACKED	C	CONDUIT
MH	MOUNTING HEIGHT	CKT	CIRCUIT
Ø	PHASE	N	NEUTRAL
SER LAT	SERVICE LATERAL	G	GROUND
		HM	HIGH MAST

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 CHECKED BY: DATE: 2-18-08



**CONTROL SYSTEM "A"**

TABLE "B" JUNCTION BOX SUMMARY						
NUMBER	LOCATION	TYPE			SHEET	
JB1	IN FRONT OF CONTROL SYSTEM "A"	PC36			E6	
JB2	ON OUTRIGGER WITH POLE #5		OCI		E6	
JB3	WITHIN 5' OF POLE #3	LSJB			E6	
JB4	WITHIN 5' OF POLE #4	LSJB			E6	
JB5	6+20 -RAMP 2 GRAHAM- 15' LT EOT	PC18			E6	
JB6	WITHIN 5' OF POLE #5	LSJB			E6	
JB7	WITHIN 5' OF POLE #6	LSJB			E6	
JB8	WITHIN 5' OF POLE #8	LSJB			E6	
JB9	WITHIN 5' OF POLE #7	LSJB			E6	
JB10	NW END OF CHURCH ST. BRIDGE			ECI	E6	
JB11	NE END OF CHURCH ST. BRIDGE			ECI	E7	
JB12	NW END OF GRAHAM ST. BRIDGE			ECI	E6	
JB13	GRAHAM ST., 15' EOT	PC18			E6	
JB14	GRAHAM ST., 15' EOT	PC18			E6	
JB15	WITHIN 5' OF POLE #11	LSJB			E6	
JB16	WITHIN 5' OF POLE #12	LSJB			E6	
JB17	WITHIN 5' OF POLE #13	LSJB			E6	
JB18	WITHIN 5' OF SIGN ASSEMBLY "E"	PC18			E6	
JB19	WITHIN 5' OF POLE #14	LSJB			E6	
JB20	WITHIN 5' OF POLE #15	LSJB			E6	
JB21	WITHIN 5' OF POLE #16	LSJB			E6	
JB22	17+30 -RAMP 2 CHURCH- 15' LT EOT	PC18			E6	
JB23	SW END OF CHURCH ST. BRIDGE			ECI	E6	
JB24	SE END OF CHURCH ST. BRIDGE			ECI	E7	
JB25	WITHIN 5' OF POLE #18	LSJB			E7	
JB26	SW END OF TRYON ST. BRIDGE			ECI	E7	
JB27	NE END OF LARGE RR BRIDGE			ECI	E5	
JB28	ON OUTRIGGER WITH POLE #20		OCI		E5	
JB29	ON OUTRIGGER WITH POLE #21		OCI		E5	
JB30	WITHIN 5' OF POLE #22	PC18			E6	
JB31	SE END OF LARGE RR BRIDGE			ECI	E5	
JB32	ON OUTRIGGER WITH POLE #23		OCI		E5	
JB33	ON OUTRIGGER WITH POLE #24		OCI		E5	
JB34	ON OUTRIGGER WITH POLE #25		OCI		E5	
JB35	NE END OF GRAHAM ST. BRIDGE			ECI	E6	
JB36	WITHIN 5' OF POLE #2	LSJB			E6	
JB37	WITHIN 5' OF POLE #19	LSJB			E5	
JB38	WITHIN 5' OF POLE #17	LSJB			E6	
JB39	WITHIN 5' OF POLE #9	LSJB			E7	
TOTALS		6	17	1	6	9

**CONTROL SYSTEM "C"**

TABLE "B" JUNCTION BOX SUMMARY					
NUMBER	LOCATION	TYPE			SHEET
JB1	IN FRONT OF CONTROL SYSTEM "C"			PC36	E12
JB2	228+63 -SB IND- 20' RT EOT	PC18			E10
JB3	226+44 -SB IND- 20' RT EOT	PC18			E10
JB4	224+32 -SB IND- 20' RT EOT	PC18			E10
JB5	WITHIN 5' OF POLE #1		LSJB		E10
JB6	WITHIN 5' OF POLE #2		LSJB		E10
JB7	SE END OF 10TH ST. BRIDGE			ECI	E10
JB8	SE END OF 10TH ST. BRIDGE			ECI	E10
JB9	NE END OF 10TH ST. BRIDGE			ECI	E10
JB10	NE END OF 10TH ST. BRIDGE			ECI	E10
JB11	231+60 -SB IND EXPY- 25' RT EOT			PC36	E12
JB12	231+60 -SB IND EXPY- 42' LT EOT	PC18			E12
JB13	233+00 -NB IND EXPY- 33' RT EOT	PC18			E12
JB14	230+32 -NB IND EXPY- 15' LT EOT	PC18			E10
JB15	228+76 -NB IND EXPY- 15' LT EOT	PC18			E10
JB16	225+89 -NB IND EXPY- 41' LT EOT	PC18			E10
JB17	230+76 -NB IND EXPY- 105' LT EOT	PC18			E10
JB18	12+75 -EB NW EXPY- 15' RT EOT	PC18			E11
JB19	12+75 -EB NW EXPY- 15' LT EOT	PC18			E11
JB20	14+80 -EB NW EXPY- 60' LT EOT	PC18			E11
JB21	5+16 -RAMP 2- 15' LT EOT	PC18			E12
JB22	5+16 -RAMP 2- 15' RT EOT	PC18			E12
JB23	10+42 -5TH ST RP- 15' LT EOT	PC18			E12
JB24	8+25 -5TH ST RP- 15' LT EOT	PC18			E12
JB25	8+25 -5TH ST RP- 15' RT EOT	PC18			E12
JB26	241+38 -I277 WB- 14' LT EOT	PC18			E13
JB27	WITHIN 5' OF POLE #6		LSJB		E13
JB28	NW END OF ELIZABETH ST. BRIDGE			ECI	E13
JB29	NE END OF ELIZABETH ST. BRIDGE			ECI	E13
JB30	248+30 -I277 WB- 15' LT EOT	PC18			E13
JB31	WITHIN 5' OF POLE #8		LSJB		E13
JB32	2+37 -5TH ST OFF RP- 15' RT EOT	PC18			E12
JB33	234+40 -SB IND EXPY- 35' RT EOT	PC18			E12
JB34	238+90 -SB IND EXPY- 30' RT EOT	PC18			E12
JB35	NW END OF 5TH ST BRIDGE			ECI	E12
JB36	SE END OF 5TH ST BRIDGE			ECI	E13
JB37	27+36 -RAMP 1- 15' RT EOT	PC18			E13
JB38	29+35 -RAMP 1- 15' RT EOT	PC18			E13
JB39	SW END OF ELIZABETH ST BRIDGE			ECI	E13
JB40	SE END OF ELIZABETH ST BRIDGE			ECI	E13
JB41	WITHIN 5' OF POLE #5		LSJB		E13
JB42	WITHIN 5' OF POLE #3		LSJB		E10
JB43	WITHIN 5' OF POLE #4		LSJB		E13
JB44	WITHIN 5' OF POLE #7		LSJB		E13
JB45	232+50 -SB IND EXPY- 30' RT EOT	PC18			E13
TOTALS		25	8	2	10

**CONTROL SYSTEM "G"**

TABLE "B" JUNCTION BOX SUMMARY						
NUMBER	LOCATION	TYPE			SHEET	
JB1	11+35 -RAMP D- 33' LT EOT			PC36	E3	
JB2	8+50 -RAMP D- 15' LT EOT	PC18			E2	
JB3	6+20 -RAMP D- 15' LT EOT	PC18			E2	
JB4	WITHIN 5' OF POLE #2		LSJB		E2	
JB5	WITHIN 5' OF POLE #1		LSJB		E2	
JB6	8+50 -RAMP D- 15' RT EOT	PC18			E2	
JB7	691+95 -I77 NB- 20' LT EOT	PC18			E2	
JB8	13+10 -RAMP D- 15' LT EOT			PC36	E3	
JB9	131+65 -I277 WB- 15' EOT LT			PC36	E3	
JB10	131+70 -I277 WB- 35' EOT RT	PC18			E3	
JB11	686+15 -I77 NB- 120' RT	PC18			E3	
JB12	18+28 -RAMP D-B- 20' RT EOT	PC18			E3	
JB13	131+88 -I277 EB- 20' LT EOT	PC18			E3	
JB14	132+70 -I277 EB- 70' RT EOT	PC18			E3	
JB15	16+22 -RAMP C- 65' LT	PC18			E4	
JB16	WITHIN 5' OF POLE #8		LSJB		E4	
JB17	WITHIN 5' OF POLE #10		LSJB		E4	
JB18	WITHIN 5' OF POLE #11		LSJB		E4	
JB19	WITHIN 5' OF POLE #12		LSJB		E4	
JB20	WITHIN 5' OF POLE #13		LSJB		E4	
JB21	134+68 -I277 WB- 20' LT	PC18			E3	
JB22	137+90 -I277 WB- 15' RT EOT	PC18			E4	
JB23	WITHIN 5' OF POLE #3		LSJB		E4	
JB24	WITHIN 5' OF POLE #5		LSJB		E4	
JB25	WITHIN 5' OF POLE #5		LSJB		E4	
JB26	WITHIN 5' OF POLE #6		LSJB		E4	
JB27	END OF BRIDGE OVER JOHNSON ST.			ECI	E4	
JB28	ON OUTRIGGER WITH POLE #7			OCI	E5	
TOTALS		12	11	3	1	1

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CONTROL SYSTEM "B"

TABLE "B"  
JUNCTION BOX SUMMARY

NUMBER	LOCATION	TYPE	SHEET	NUMBER	LOCATION	TYPE	SHEET
JB1	IN FRONT OF CONTROL SYSTEM "B"	PC36	E8	JB58	6+00 -CALDWELL ST- 15' LT EOT	PC18	E8
JB2	WITHIN 5' OF POLE #1	LSJB	E8	JB59	202+38 -I277 WB- 71' LT EOT	PC18	E8
JB3	202+35 -I277 EB- 82' RT EOT	PC18	E8	JB60	WITHIN 5' OF POLE #32	LSJB	E7
JB4	1+18 -RP 2 DAVIDSON- 24' LT EOT	PC18	E8	JB61	WITHIN 5' OF POLE #24	LSJB	E7
JB5	WITHIN 5' OF POLE #5	LSJB	E9	JB62	WITHIN 5' OF POLE #31	LSJB	E8
JB6	WITHIN 5' OF POLE #8	LSJB	E9	JB63	WITHIN 5' OF POLE #17	LSJB	E9
JB7	WITHIN 5' OF POLE #3	LSJB	E8	JB64	WITHIN 5' OF POLE #10	LSJB	E10
JB8	WITHIN 5' OF POLE #4	LSJB	E9	TOTALS		15 31 1 17	
JB9	WITHIN 5' OF POLE #6	LSJB	E9				
JB10	WITHIN 5' OF POLE #7	LSJB	E9				
JB11	WITHIN 5' OF POLE #9	LSJB	E9				
JB12	SW END OF 10TH ST. BRIDGE		ECI E10				
JB13	SE END OF CALDWELL ST. BRIDGE		ECI E8				
JB14	WITHIN 5' OF POLE #11	LSJB	E8				
JB15	WITHIN 5' OF POLE #12	LSJB	E8				
JB16	203+52 -I277 WB- 71' LT EOT	PC18	E8				
JB17	WITHIN 5' OF POLE #13	LSJB	E8				
JB18	WITHIN 5' OF POLE #14	LSJB	E9				
JB19	WITHIN 5' OF POLE #15	LSJB	E9				
JB20	4+54 -RAMP 1 DAVIDSON- 11' EOT	PC18	E9				
JB21	4+54 -RAMP 1 DAVIDSON- 15' EOT	PC18	E9				
JB22	WITHIN 5' OF POLE #18	LSJB	E9				
JB23	WITHIN 5' OF SIGN ASSEMBLY "F"	PC18	E9				
JB24	WITHIN 5' OF POLE #19	LSJB	E9				
JB25	NW END OF 10TH ST. BRIDGE		ECI E10				
JB26	8+75 -CALDWELL ST- 21' RT EOT	PC18	E8				
JB27	WITHIN 5' OF POLE #21	LSJB	E8				
JB28	WITHIN 5' OF POLE #20	LSJB	E8				
JB29	SE END OF BREVARD ST. BRIDGE		ECI E8				
JB30	SW END OF BREVARD ST. BRIDGE		ECI E8				
JB31	WITHIN 5' OF POLE #23	LSJB	E5				
JB32	SE END OF BRIDGE OVER ABN RR		ECI E8				
JB33	SW END OF BRIDGE OVER ABN RR		ECI E7				
JB34	SE END OF COLLEGE ST. BRIDGE		ECI E7				
JB35	SW END OF COLLEGE ST. BRIDGE		ECI E7				
JB36	WITHIN 5' OF POLE #25	LSJB	E7				
JB37	3+70 -RP 2 COLLEGE- 15' LT EOT	PC18	E7				
JB38	WITHIN 5' OF POLE #27	LSJB	E7				
JB39	WITHIN 5' OF POLE #26	LSJB	E7				
JB40	SE END OF TRYON ST. BRIDGE		ECI E7				
JB41	6+00 -CALDWELL ST- 15' RT EOT	PC18	E8				
JB42	3+38 -RP 1 CALDWELL- 15' LT EOT	PC18	E8				
JB43	WITHIN 5' OF POLE #30	LSJB	E8				
JB44	WITHIN 5' OF POLE #29	LSJB	E8				
JB45	WITHIN 5' OF POLE #28	LSJB	E8				
JB46	NE END OF BREVARD ST. BRIDGE		ECI E8				
JB47	NW END OF BREVARD ST. BRIDGE		ECI E8				
JB48	NE END OF BRIDGE OVER ABN RR		ECI E8				
JB49	NW END OF BRIDGE OVER ABN RR		ECI E7				
JB50	NEAR 12TH ST AT ABN RR TRACK	PC18	E7				
JB51	NEAR 12TH ST AT COLLEGE ST	PC18	E7				
JB52	NE END OF COLLEGE ST. BRIDGE		ECI E7				
JB53	NW END OF COLLEGE ST. BRIDGE		ECI E7				
JB54	WITHIN 5' OF POLE #33	LSJB	E7				
JB55	4+10 -RP 1 COLLEGE-15' LT EOT	PC18	E7				
JB56	WITHIN 5' OF POLE #34	LSJB	E7				
JB57	NE END OF CALDWELL ST. BRIDGE		ECI E8				

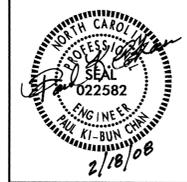
TABLE "C"  
ELECTRICAL DUCT SUMMARY  
(ESTIMATED LENGTH IN FEET)

LOCATION	RACEWAY $\Delta$	SHEET	TYPE							
			JACKED (JA) FEET			BURIED (BD) FEET				
			SIZE 2"	SIZE 3"	SIZE 4"	SIZE 2"	SIZE 3"	SIZE 4"		
8+50 -RAMP D-		E2		40						
691+95 -I77 NB-		E2		60						
131+70 -I277 WB-		E3				80				
131+70 -I277 WB-	JB9 - JB10	E3					100			
18+28 -RAMP D-B-		E3			45					
18+28 -RAMP D-B-	JB10 - JB12	E3					85			
131+88 -I277 EB-		E3			75					
131+88 -I277 EB-	JB13 - JB14	E3					165			
18+80 -RAMP C-		E4		40						
BEHIND SLOPE PROT.	JB1 - JB13	E6	150				80			
BETWEEN JB13 AND JB14				75						
5+23 -RAMP 3 GRAHAM-		E6		40						
6+20 -RAMP 2 GRAHAM-		E6		40						
3+57 -RAMP 1 GRAHAM-		E6		40						
7+28 -RAMP 2 CHURCH-		E6		40						
3+70 -RAMP 2 COLLEGE-		E7		40						
4+10 -RAMP 1 COLLEGE-		E7		40						
3+38 -RAMP 1 CALDWELL-		E8		40						
3+16 -RAMP 2 CALDWELL-		E8		40						
8+75 -CALDWELL ST-		E8		55						
6+00 -CALDWELL ST-		E8		55						
BETWEEN JB3 AND JB4		E8		90						
BETWEEN JB16 AND JB59		E8		90						
1+18 -RAMP 2 DAVIDSON-		E8		40						
4+54 -RAMP 1 DAVIDSON-		E9		40						
BEHIND SLOPE PROT.	JB14 - JB15	E10	155							
12+75 -EB NW EXPWY-		E11		40						
231+60 -SB IND EXPWY-		E12			60					
231+60 -SB IND EXPWY-	JB11 - JB12	E12				100				
233+15 -NB IND EXPWY-		E12			70					
233+15 -NB IND EXPWY-	JB12 - JB13	E12				125				
5+16 -RAMP 2-		E12		40						
8+25 -5TH ST-		E12		40						
27+36 -RAMP 1-		E13		40						
4TH STREET RAMP		E13		40						
TOTALS:			305	1105	330	655				

TABLE "D"  
CLEARING & GRUBBING/SEEDING & MULCHING SUMMARY

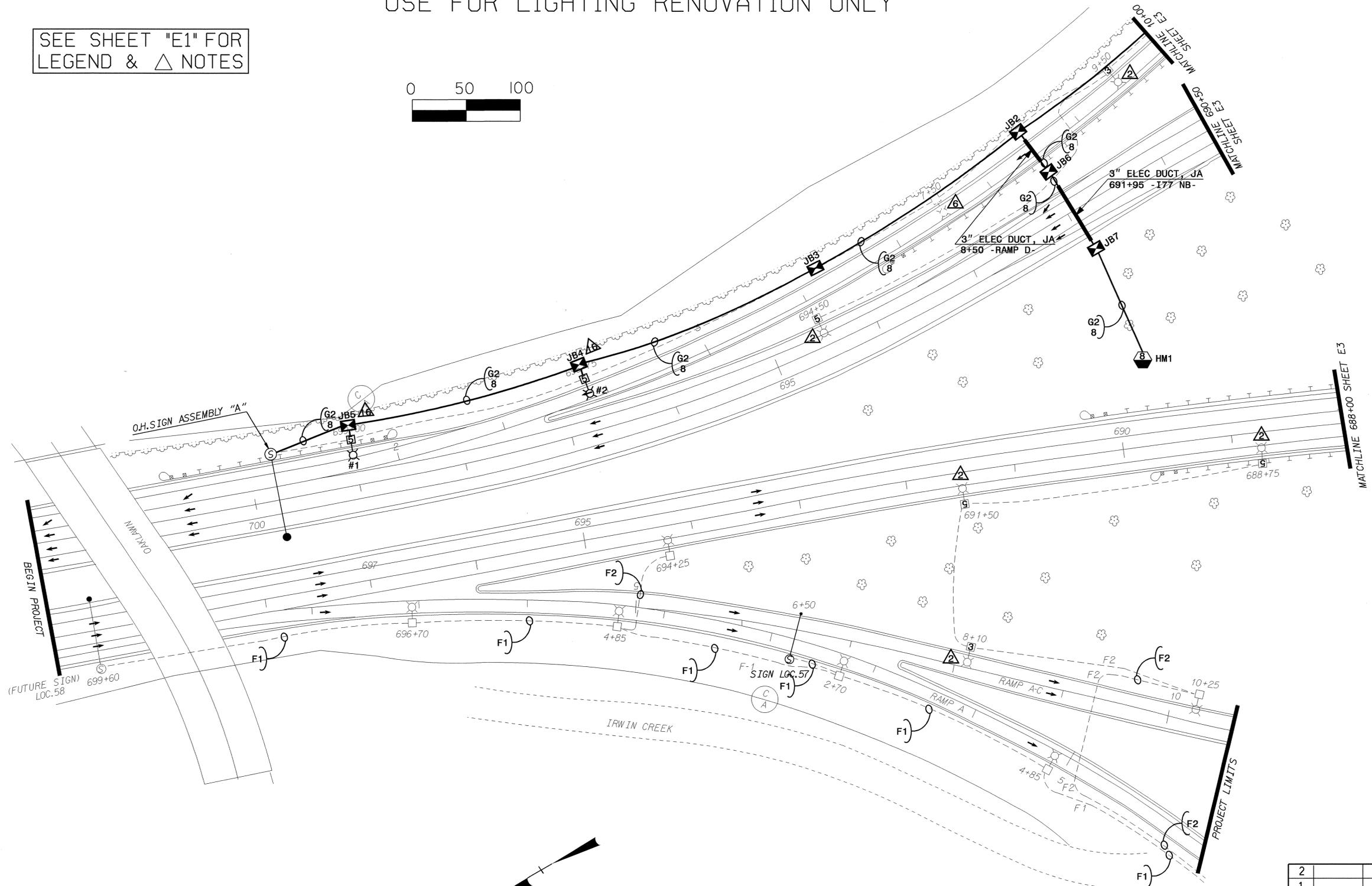
SHEET	AREA	LENGTH (FT)	WIDTH (FT)	AREA (SQ FT)
E3	AREA SURROUNDING EXISTING CS "A"	200	10	2000
E4	BETWEEN SA #11 AND SA #13	680	10	6800
E7	BETWEEN TRYON ST. BRIDGE AND SA #26	180	10	1800
E7	BETWEEN TRYON ST BRIDGE AND JB55	180	10	1800
E7	BETWEEN COLLEGE ST BRIDGE AND SA #24	220	10	2200
E8	CALDWELL ST BRIDGE TO DAVIDSON ST BRIDGE, SOUTH	340	10	3400
E8	CALDWELL ST BRIDGE TO DAVIDSON ST BRIDGE, NORTH	340	10	3400
E8	BREVARD ST. BRIDGE TO JB44	120	10	1200
E9	SA #7 TO MATCHLINE 217+00	470	10	4700
E10	MATCHLINE 217+00 TO 10TH ST. BRIDGE	60	10	600
E13	JB37 TO ELIZABETH ST. BRIDGE	390	10	3900
E13	JB26 TO ELIZABETH ST. BRIDGE	440	10	4400
E13	ELIZABETH ST. BRIDGE TO SA #5	200	10	2000
TOTAL:		34800	SQ FT (.80 ACRE)	

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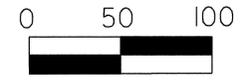
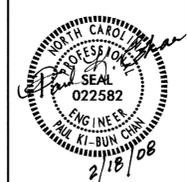


USE FOR LIGHTING RENOVATION ONLY

SEE SHEET "E1" FOR  
LEGEND & △ NOTES



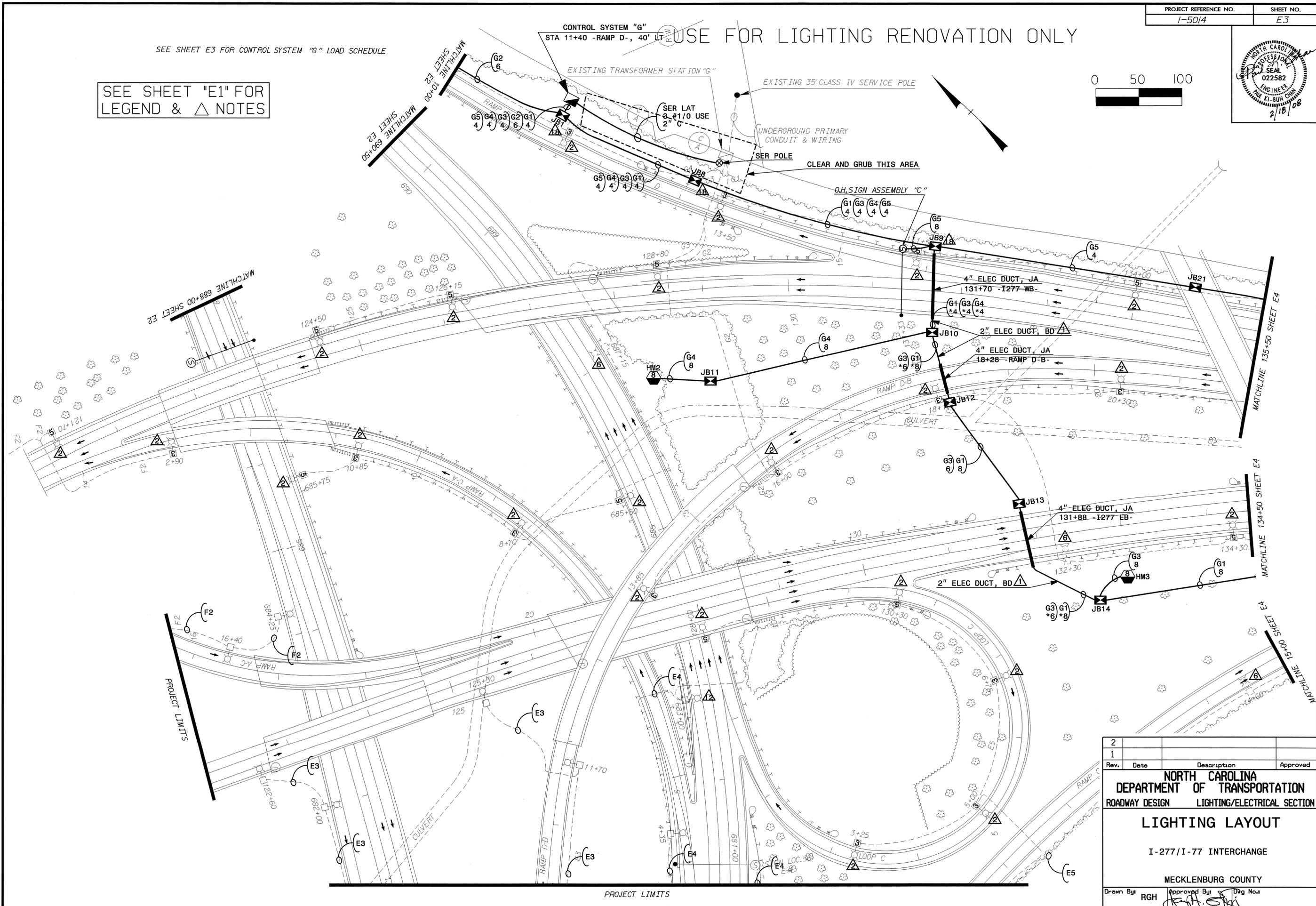
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Rev.	Date	Description	Approved
<b>NORTH CAROLINA</b> <b>DEPARTMENT OF TRANSPORTATION</b> ROADWAY DESIGN LIGHTING/ELECTRICAL SECTION <b>LIGHTING LAYOUT</b> OAKLAWN DRIVE TO I-277/I-77 INTERCHANGE MECKLENBURG COUNTY			
Drawn By:	RGH	Approved By:	<i>[Signature]</i>
		Dwg No.:	



SEE SHEET "E1" FOR  
LEGEND & △ NOTES

SEE SHEET E3 FOR CONTROL SYSTEM "G" LOAD SCHEDULE

USE FOR LIGHTING RENOVATION ONLY



Rev.	Date	Description	Approved
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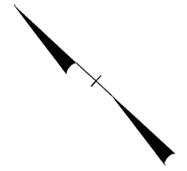
**NORTH CAROLINA**  
**DEPARTMENT OF TRANSPORTATION**  
 ROADWAY DESIGN LIGHTING/ELECTRICAL SECTION  
**LIGHTING LAYOUT**  
 I-277/I-77 INTERCHANGE  
 MECKLENBURG COUNTY  
 Drawn By: **RGH**    Approved By: *[Signature]*    Dwg No.:

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02/03/08

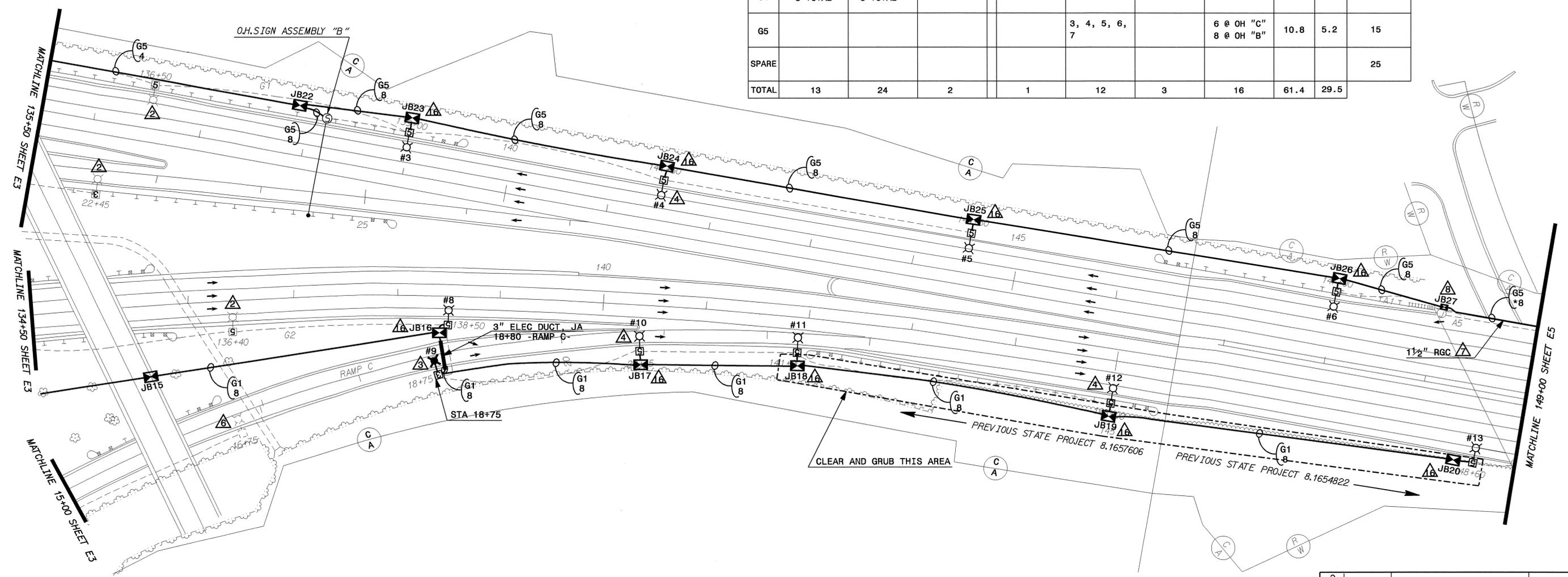


SEE SHEET "E1" FOR  
LEGEND & △ NOTES



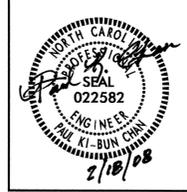
USE FOR LIGHTING RENOVATION ONLY

LOAD SCHEDULE										
1Ø, 3W, 240/480 VAC										
STA. 11+40, I-77 ONRAMP										
CONTROL SYSTEM "G"										
CKT	EXISTING			PROPOSED						
	SINGLE ARM 1 @ 250W HPS	SINGLE ARM 1 @ 400W HPS	SIGNS	SINGLE ARM 1 @ 250W HPS	SINGLE ARM 1 @ 400W HPS	HIGH MAST 8 @ 750W HPS	SIGN LIGHTER 1 @ 150W HPS	AMPS @ 480V	KW LOAD	BREAKER SIZE (AMPS)
G1	1 TOTAL	6 TOTAL	2 TOTAL	9	8, 10, 11, 12, 13			4.6	2.2	15
G2	7 TOTAL	6 TOTAL			1, 2	HM1	2 @ OH "A"	17.2	8.3	25
G3	2 TOTAL	6 TOTAL				HM3		14.4	6.9	20
G4	3 TOTAL	6 TOTAL				HM2		14.4	6.9	20
G5					3, 4, 5, 6, 7		6 @ OH "C" 8 @ OH "B"	10.8	5.2	15
SPARE										25
TOTAL	13	24	2	1	12	3	16	61.4	29.5	



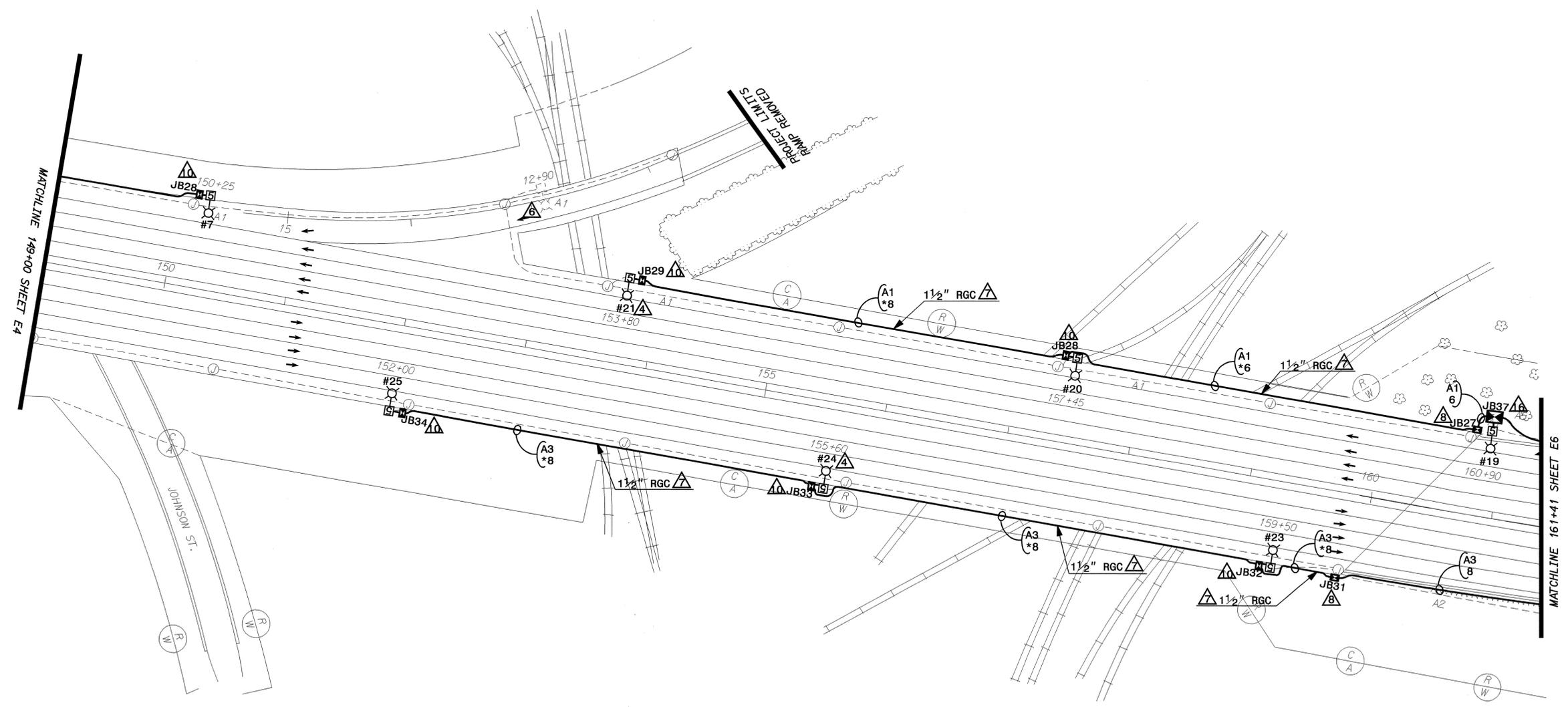
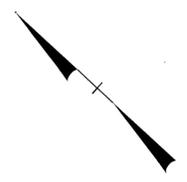
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Rev.	Date	Description	Approved
<b>NORTH CAROLINA DEPARTMENT OF TRANSPORTATION</b> ROADWAY DESIGN LIGHTING/ELECTRICAL SECTION			
<b>LIGHTING LAYOUT</b> I-277 FROM I-77 TO JOHNSON STREET			
MECKLENBURG COUNTY			
Drawn By:	RGH	Approved By:	[Signature]
Dwg No.:			



USE FOR LIGHTING RENOVATION ONLY

SEE SHEET "E1" FOR  
LEGEND & △ NOTES

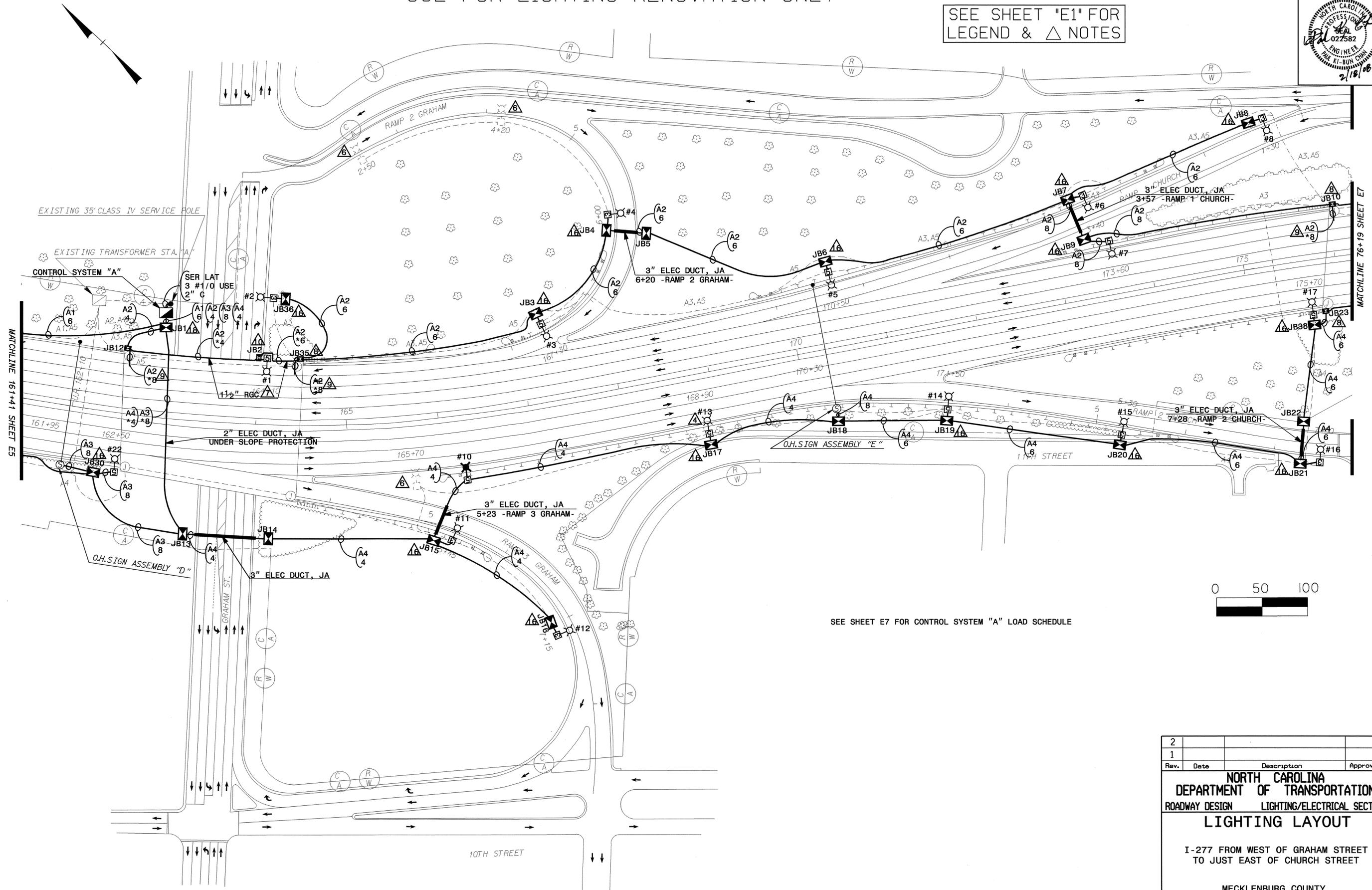


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Rev.	Date	Description	Approved
<b>NORTH CAROLINA</b> <b>DEPARTMENT OF TRANSPORTATION</b> ROADWAY DESIGN      LIGHTING/ELECTRICAL SECTION <b>LIGHTING LAYOUT</b> I-277 FROM JOHNSON STREET TO JUST WEST OF GRAHAM STREET MECKLENBURG COUNTY			
Drawn By	RGH	Approved By	<i>[Signature]</i>
		Dwg No.	

USE FOR LIGHTING RENOVATION ONLY

SEE SHEET "E1" FOR  
LEGEND & △ NOTES



MATCHLINE 161+41 SHEET E5

MATCHLINE 76+19 SHEET E7



SEE SHEET E7 FOR CONTROL SYSTEM "A" LOAD SCHEDULE

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Rev.	Date	Description	Approved	
<b>NORTH CAROLINA</b> <b>DEPARTMENT OF TRANSPORTATION</b> ROADWAY DESIGN      LIGHTING/ELECTRICAL SECTION <b>LIGHTING LAYOUT</b> I-277 FROM WEST OF GRAHAM STREET TO JUST EAST OF CHURCH STREET MECKLENBURG COUNTY Drawn By: <b>RGH</b> Approved By: <i>[Signature]</i> Dwg No.:				

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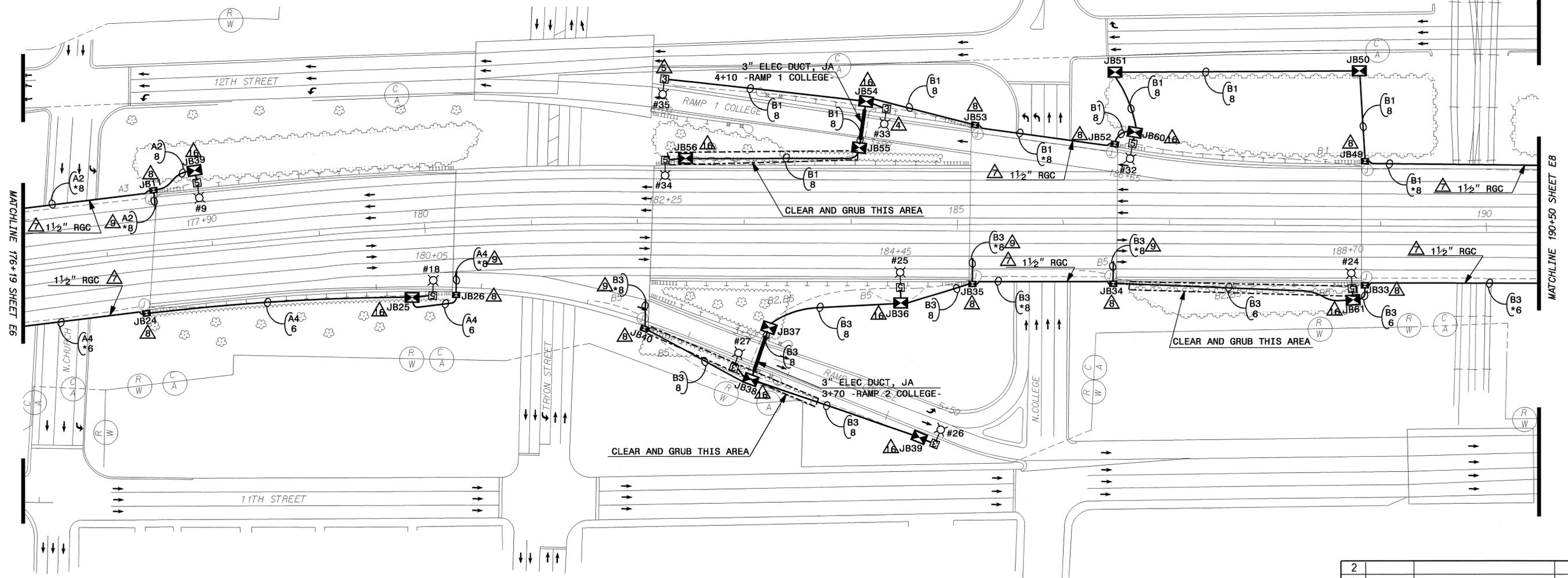
02/03/98

LOAD SCHEDULE											
I-277/GRAHAM STREET INTERCHANGE											
CONTROL SYSTEM "A"											
10, 3W, 240/480 VAC											
CKT	EXISTING				PROPOSED						
	SINGLE ARM 1 @ 250W HPS	SINGLE ARM 1 @ 400W HPS	SIGNS	U.P. LIGHTS	SINGLE ARM 1 @ 250W HPS	SINGLE ARM 1 @ 400W HPS	SIGN LIGHTER 1 @ 150W HPS	U.P. LIGHTS 1 @ 150W HPS	AMPS @ 480V	KW LOAD	BREAKER SIZE (AMPS)
A1	7 TOTAL	5 TOTAL				19, 20, 21			3	1.4	15
A2		5 TOTAL	1 TOTAL		2, 4, 6, 8	1, 3, 5, 7, 9		8 @ UPL1 (GRAHAM) 6 @ UPL2 (CHURCH)	13.1	6.3	20
A3	6 TOTAL	5 TOTAL				22, 23, 24, 25	16 @ OH "D"		10.7	5.1	15
A4	4 TOTAL	5 TOTAL	1 TOTAL		11, 12, 15, 16	10, 13, 14, 17, 18	10 @ OH "E"	3 @ UPL3 (TRYON)	12.9	6.2	20
A5				22 TOTAL							
SPARE											20
TOTAL	17	20	2	22	8	17	26	17	39.7	19	

USE FOR LIGHTING RENOVATION ONLY



SEE SHEET "E1" FOR  
LEGEND & Δ NOTES



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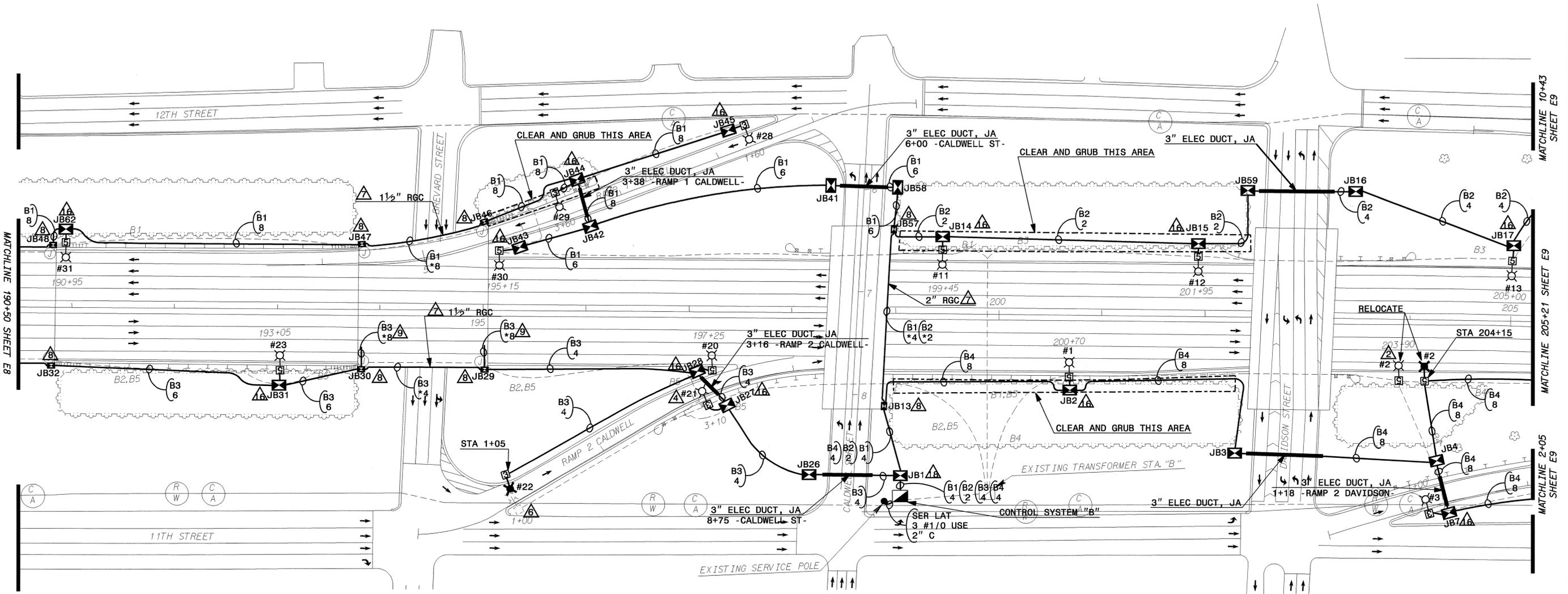
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Rev.	Date	Description	Approved
<b>NORTH CAROLINA</b> <b>DEPARTMENT OF TRANSPORTATION</b> ROADWAY DESIGN    LIGHTING/ELECTRICAL SECTION <b>LIGHTING LAYOUT</b> I-277 FROM CHURCH STREET TO NORFOLK SOUTHERN RR TRACKS MECKLENBURG COUNTY Drawn By: RGH    Approved By: <i>[Signature]</i> Dwg No.:			



USE FOR LIGHTING RENOVATION ONLY



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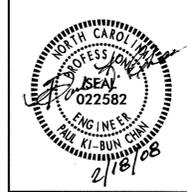


**LOAD SCHEDULE**  
I-277/CALDWELL STREET INTERCHANGE

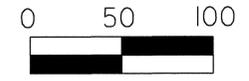
1Ø, 3W, 240/480 VAC					CONTROL SYSTEM "B"						
CKT	EXISTING				PROPOSED						
	SINGLE ARM 1 @ 250W HPS	SINGLE ARM 1 @ 400W HPS	SIGNS	U.P. LIGHTS	SINGLE ARM 1 @ 250W HPS	SINGLE ARM 1 @ 400W HPS	SIGN LIGHTER 1 @ 150W HPS	U.P. LIGHTS 1 @ 150W HPS	AMPS @ 480V	KW LOAD	BREAKER SIZE (AMPS)
B1	4 TOTAL	5 TOTAL			28, 29, 33, 35	30, 31, 32, 34			6.5	3.1	15
B2	4 TOTAL	4 TOTAL			14, 15, 16	11, 12, 13, 17, 18, 19	13 @ OH "F"	2 @ UPL6 (10TH)	14.1	6.8	20
B3	4 TOTAL	5 TOTAL	1 TOTAL		21, 22, 26, 27	20, 23, 24, 25		3 @ UPL 3 (TRYON) 6 @ UPL 4 (COLLEGE) 6 @ UPL 5 (BREVARD)	12.5	6.0	15
B4	4 TOTAL	6 TOTAL			3, 4, 6, 7	1, 2, 5, 8, 9, 10		2 @ UPL 6 (10TH)	9.3	4.5	15
B5				18 TOTAL							
SPARE											20
<b>TOTAL</b>	<b>16</b>	<b>20</b>	<b>1</b>	<b>18</b>	<b>15</b>	<b>20</b>	<b>13</b>	<b>19</b>	<b>42.4</b>	<b>20.4</b>	

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Rev.	Date	Description	Approved
<b>NORTH CAROLINA</b> <b>DEPARTMENT OF TRANSPORTATION</b> ROADWAY DESIGN LIGHTING/ELECTRICAL SECTION <b>LIGHTING LAYOUT</b> I-277 FROM E. OF NORFOLK SOUTHERN RR TO E. OF DAVIDSON STREET MECKLENBURG COUNTY Drawn By: RGH Approved By: [Signature] Dwg No.:			

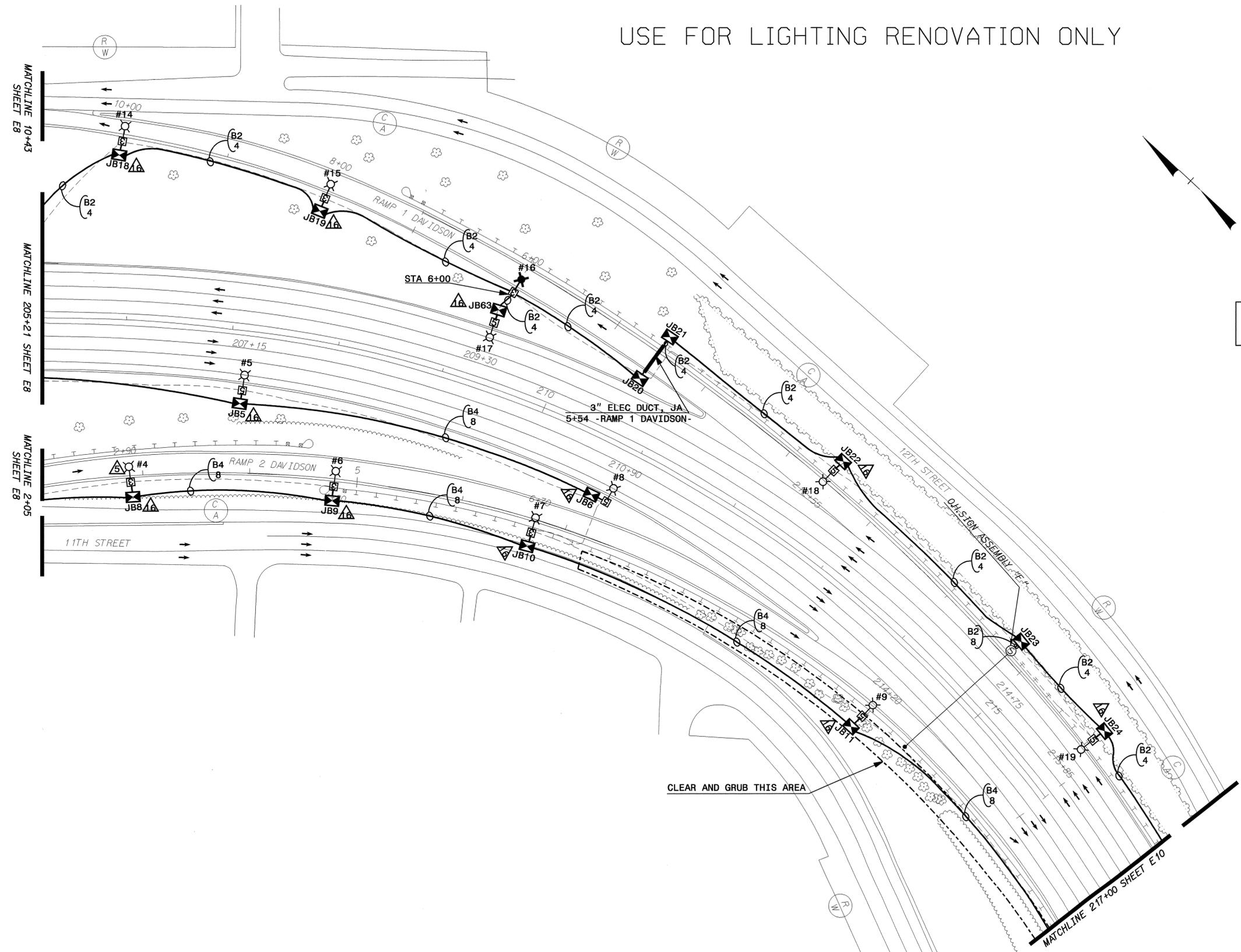
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USE FOR LIGHTING RENOVATION ONLY



SEE SHEET "E1" FOR  
LEGEND & △ NOTES



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Rev.	Date	Description	Approved
<b>NORTH CAROLINA DEPARTMENT OF TRANSPORTATION</b> ROADWAY DESIGN LIGHTING/ELECTRICAL SECTION <b>LIGHTING LAYOUT</b> I-277 FROM EAST OF DAVIDSON STREET TO WEST OF 10TH STREET MECKLENBURG COUNTY			
Drawn By RGH	Approved By <i>[Signature]</i>	Dwg No.	

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02/03/08

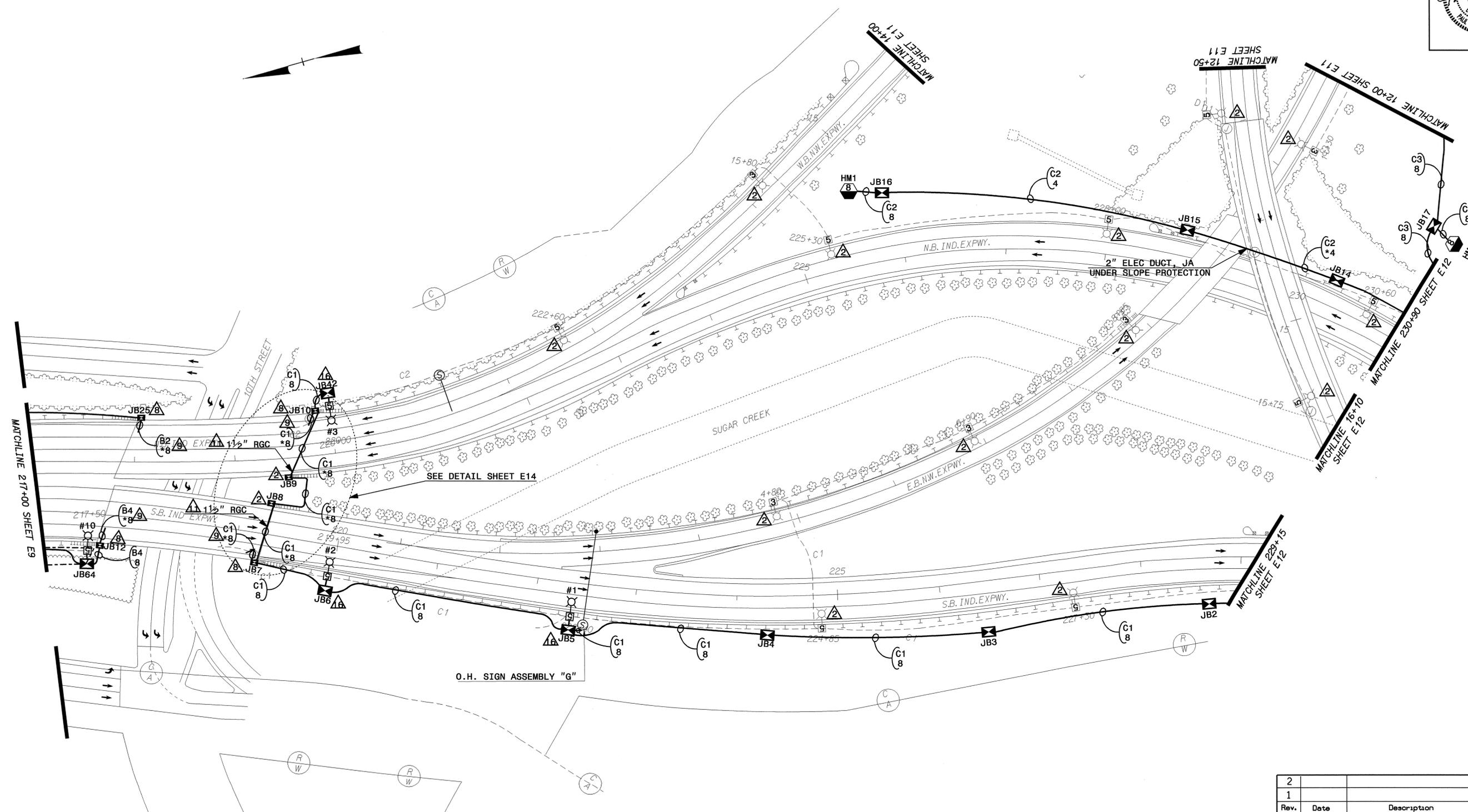
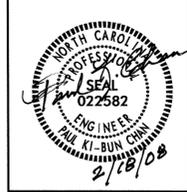
02/03/08

SEE SHEET "E1" FOR  
LEGEND & △ NOTES

USE FOR LIGHTING RENOVATION ONLY

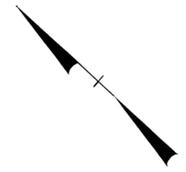


PROJECT REFERENCE NO. I-50/4	SHEET NO. E10
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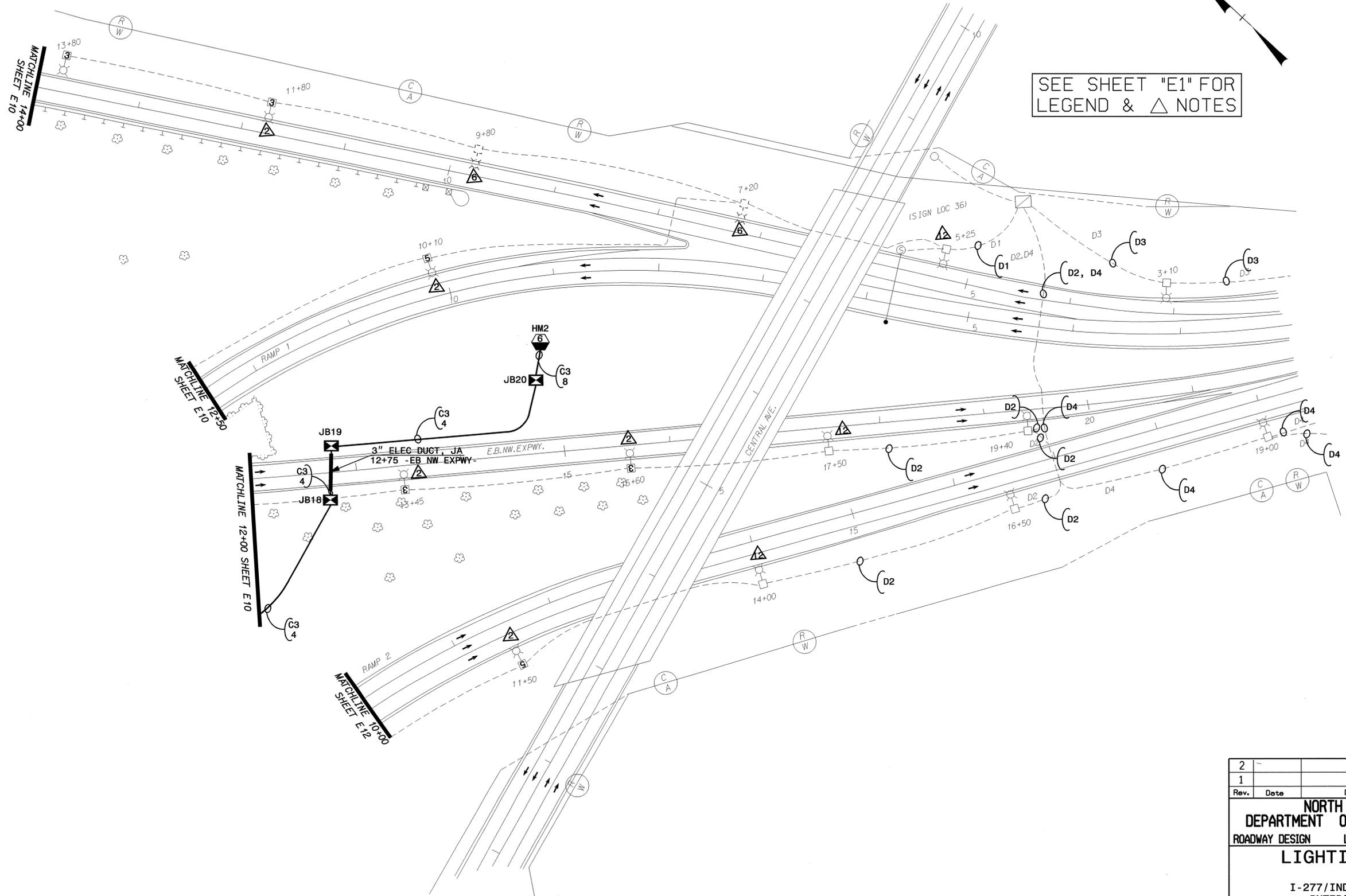
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Rev.	Date	Description	Approved
<b>NORTH CAROLINA</b> <b>DEPARTMENT OF TRANSPORTATION</b> ROADWAY DESIGN      LIGHTING/ELECTRICAL SECTION <b>LIGHTING LAYOUT</b> I-277 FROM 10TH STREET TO INDEPENDENCE BLVD. MECKLENBURG COUNTY Drawn By: <b>RGH</b> Approved By: <i>[Signature]</i> Dwg No.:			



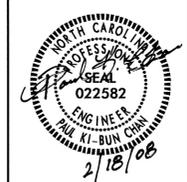
USE FOR LIGHTING RENOVATION ONLY

SEE SHEET "E1" FOR  
LEGEND & △ NOTES

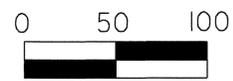


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Rev.	Date	Description	Approved
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Drawn By:	RGH	Approved By:	<i>[Signature]</i>

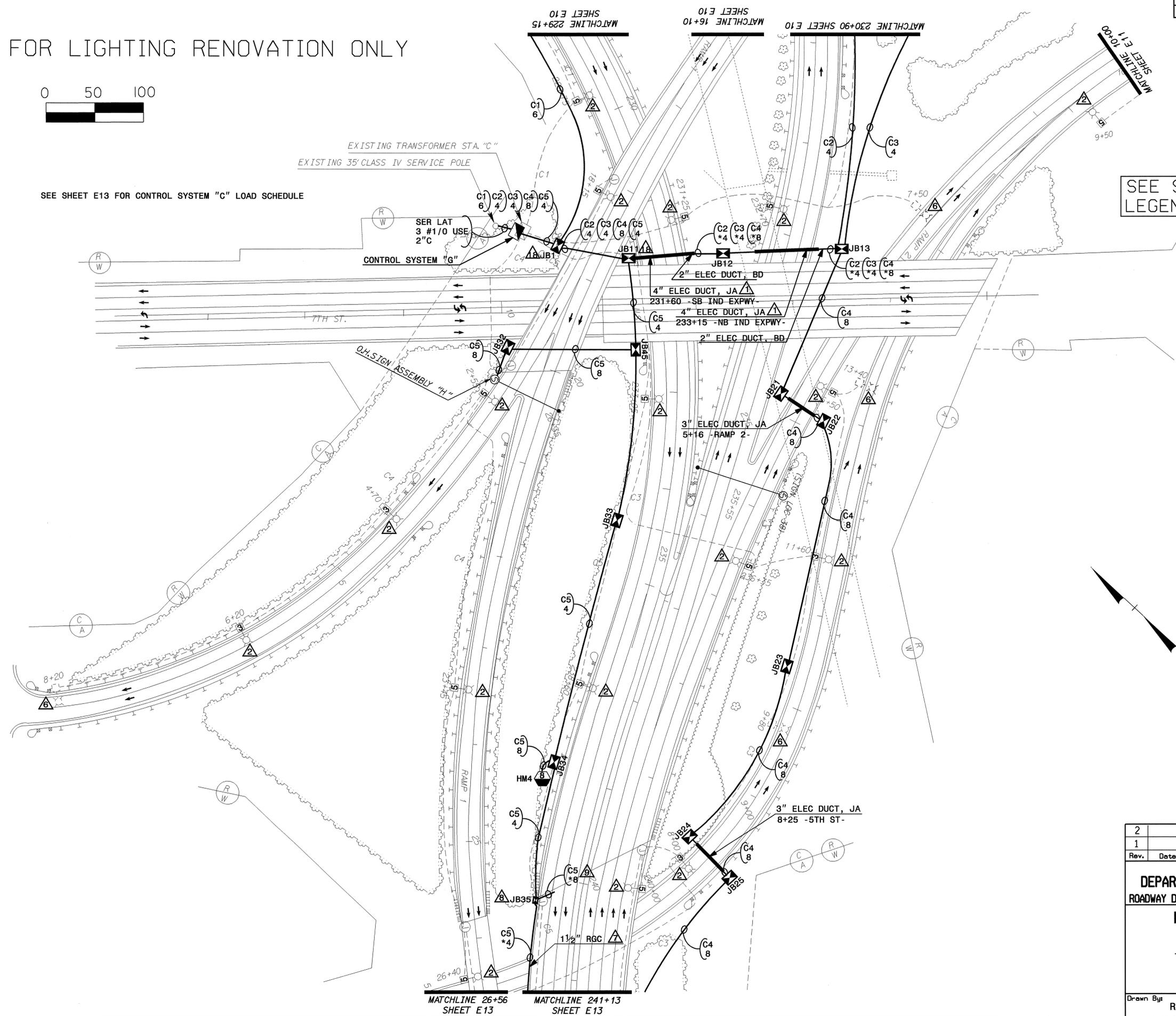


USE FOR LIGHTING RENOVATION ONLY



SEE SHEET E13 FOR CONTROL SYSTEM "C" LOAD SCHEDULE

SEE SHEET "E1" FOR LEGEND & Δ NOTES



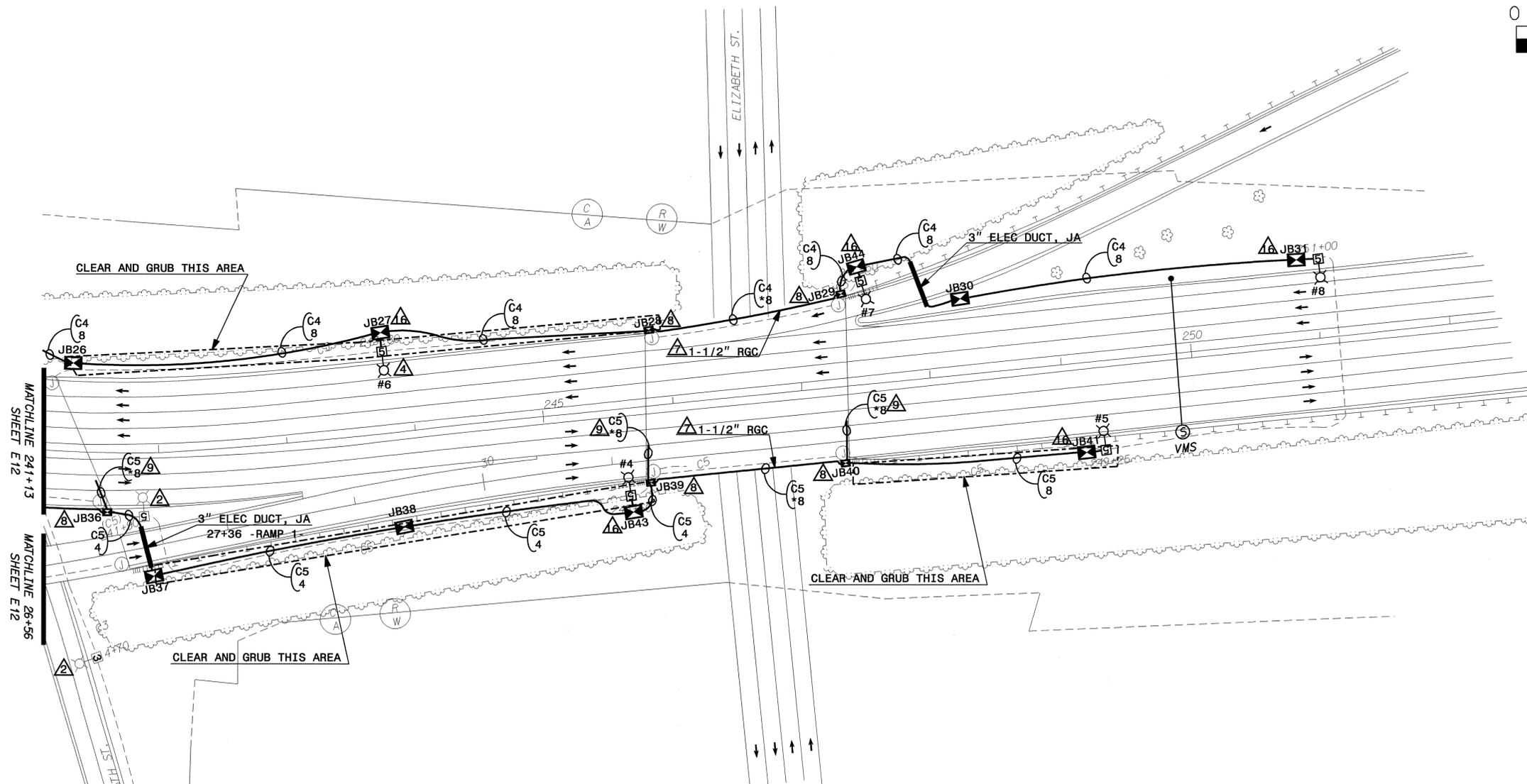
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Rev.	Date	Description	Approved
<b>NORTH CAROLINA</b> <b>DEPARTMENT OF TRANSPORTATION</b> ROADWAY DESIGN LIGHTING/ELECTRICAL SECTION <b>LIGHTING LAYOUT</b> I-277 FROM SOUTH OF 10TH STREET TO 5TH STREET MECKLENBURG COUNTY			
Drawn By:	RGH	Approved By:	[Signature]
Dwg No.:			

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SEE SHEET "E1" FOR  
LEGEND & △ NOTES

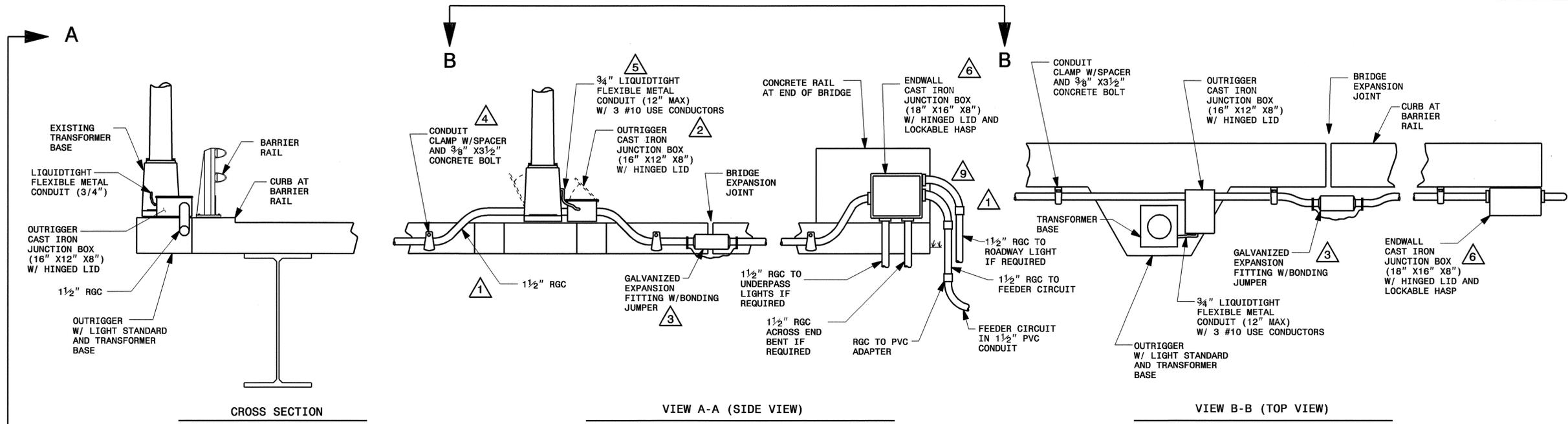


LOAD SCHEDULE I-277/7TH STREET INTERCHANGE												
1Ø, 3W, 240/480 VAC												
CKT	EXISTING				PROPOSED					CONTROL SYSTEM "C"		
	SINGLE ARM 1 @ 250W HPS	SINGLE ARM 1 @ 400W HPS	SIGNS	U.P. LIGHTS	SINGLE ARM 1 @ 400W HPS	HIGH MAST 8 @ 750W HPS	HIGH MAST 6 @ 400W HPS	SIGN LIGHTER 1 @ 150W HPS	U.P. LIGHTS 1 @ 150W HPS	AMPS @ 480V	KW LOAD	BREAKER SIZE (AMPS)
C1	3 TOTAL	5 TOTAL	1 TOTAL	4 TOTAL	1, 2, 3			6 @ OH "G"	4 @ UPL6 (10TH)	7.1	3.4	15
C2	1 TOTAL	8 TOTAL		4 TOTAL		HM1				14.4	6.9	20
C3	7 TOTAL	5 TOTAL	1 TOTAL			HM3	HM2			22.4	10.8	30
C4	3 TOTAL	4 TOTAL	1 TOTAL		6, 7, 8					3.0	1.4	15
C5		6 TOTAL		12 TOTAL	4, 5	HM4		4 @ OH "H"	6 @ UPL 8 (ELIZ. ST) 6 @ UPL 7 (5TH)	22.9	11.0	30
SPARE												30
TOTAL	14	28	3	20	8	3	1	10	16	69.8	33.5	

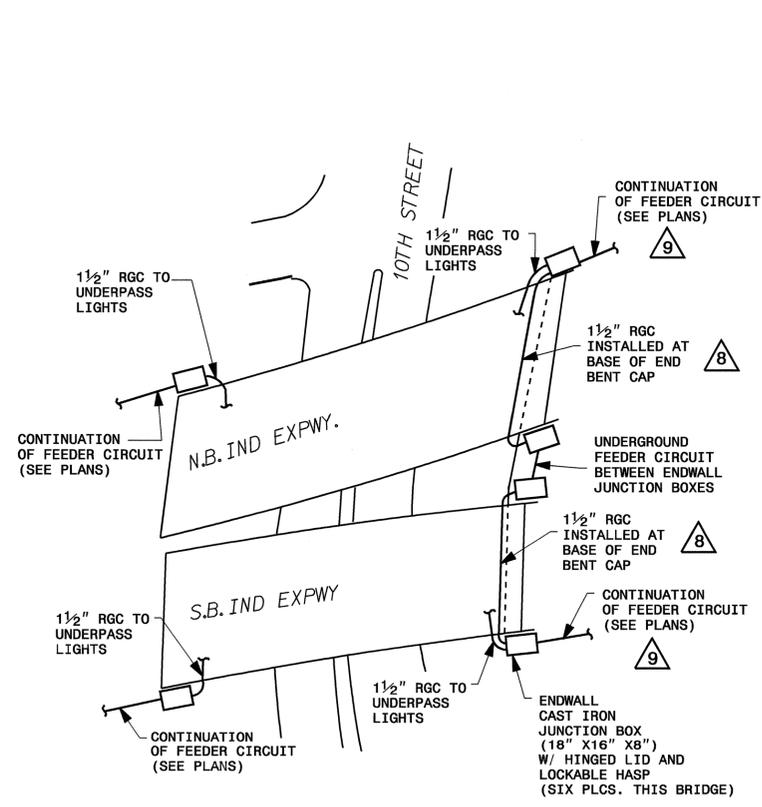
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Rev.	Date	Description	Approved
<b>NORTH CAROLINA DEPARTMENT OF TRANSPORTATION</b> ROADWAY DESIGN LIGHTING/ELECTRICAL SECTION <b>LIGHTING LAYOUT</b> STA 241+13 TO PROJECT END MECKLENBURG COUNTY Drawn By: RGH      Approved By:       Dwg No.:			

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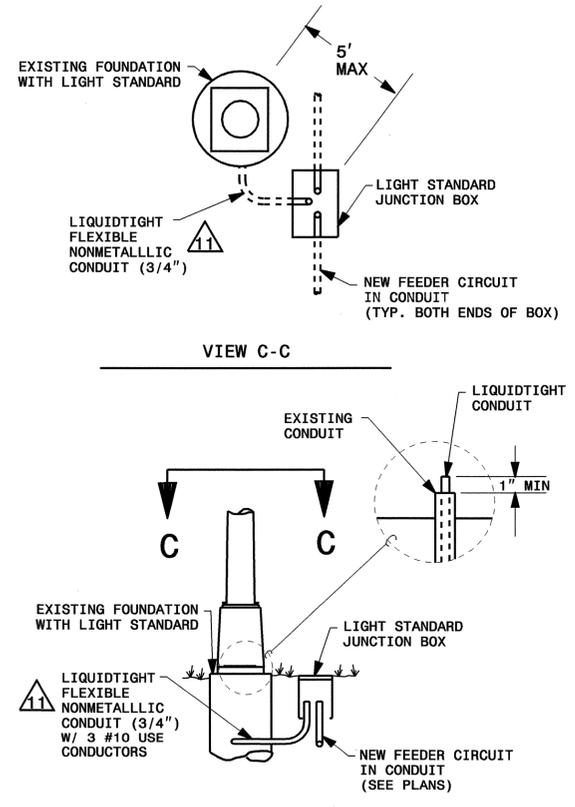
02/03/08



**RIGID GALVANIZED CONDUIT AT RAILROAD BRIDGE**



**10TH STREET BRIDGE**



**JUNCTION BOX INSTALLATION AT EXISTING STANDARDS**

- NOTES**
- 1 FIELD BEND OR USE ENGINEER APPROVED CONDUIT SWEEPS. 1 1/2" CONDUIT SHOWN. 2" CONDUIT REQUIRED AT SOME LOCATIONS SHOWN IN THE PLANS.
  - 2 INSTALL OUTRIGGER JUNCTION BOXES ON SIDE OF POLE OPPOSITE TRANSFORMER BASE DOOR.
  - 3 OFFSET CONDUIT AS REQUIRED TO PREVENT CONTACT WITH BRIDGE AND ALLOW PROPER MOVEMENT OF EXPANSION FITTING.
  - 4 INSTALL CONDUIT CLAMPS AND SPACERS ACCORDING TO NATIONAL ELECTRICAL CODE ARTICLE 344.
  - 5 INSTALL LIQUIDTIGHT FLEXIBLE METAL CONDUIT ACCORDING TO NATIONAL ELECTRICAL CODE ARTICLE 350.
  - 6 INSTALL OVER EXISTING JUNCTION BOX IF PRESENT. INSTALL ON BACK OF BARRIER IF NOT.
  - 7 INSTALLATION IS SIMILAR AT BRIDGES WITHOUT EXISTING POLES ON OUTRIGGERS.
  - 8 INSTALL RGC ON TOP OF SLOPE PROTECTION, OR BENT CAP, AS CIRCUMSTANCES REQUIRE. USE CONDUIT CLAMPS AND SPACERS WITH 3/8" X 3 1/2" CONCRETE WEDGE ANCHORS FOR 1 1/2" CONDUIT. 1/2" X 3 1/2" CONCRETE WEDGE ANCHORS ARE REQUIRED FOR 2" CONDUIT.
  - 9 USE RGC IN ALL EXPOSED LOCATIONS AND TRANSITION TO PVC CONDUIT UNDERGROUND.
  - 10 REFER TO PLANS FOR CONDUCTOR SIZES
  - 11 REFER TO PROJECT SPECIAL PROVISIONS TITLED LIGHT STANDARD JUNCTION BOXES FOR MATERIALS, CONSTRUCTION METHODS AND PAYMENT.

**ESTIMATED LIST OF MATERIALS FOR ATTACHMENT TO ALL BRIDGES**

SHEET	AREA	RGC (FT)		JUNCTION BOXES		EXP. FITTINGS	
		2"	1 1/2"	OUTRIGGER	ENDWALL	2"	1 1/2"
E4	JOHNSON ST. BRIDGE		105		1		1
E5	JOHNSON ST. BRIDGE		125	1			1
E5	RAILROAD BRIDGE		1500	5	2		15
E6	GRAHAM ST. BRIDGE		270	1	2		2
E6	CHURCH ST. BRIDGE		110		2		1
E7	CHURCH ST. BRIDGE		250		2		2
E7	TRYON ST. BRIDGE		50		2		
E7	COLLEGE ST. BRIDGE		330		4		3
E7	RAILROAD BRIDGE		335		2		3
E8	RAILROAD BRIDGE		70		2		
E8	BREVARD ST. BRIDGE		305		4		3
E8	CALDWELL ST. BRIDGE	180			2	1	
E10	10TH ST. BRIDGE		225		6		2
E12	5TH ST. BRIDGE		125		1		1
E13	5TH ST. BRIDGE		55		1		
E13	ELIZABETH ST. BRIDGE		370		4		3
<b>TOTALS</b>		<b>180</b>	<b>4225</b>	<b>7</b>	<b>37</b>	<b>1</b>	<b>37</b>

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Rev.	Date	Description	Approved
<b>NORTH CAROLINA DEPARTMENT OF TRANSPORTATION</b> ROADWAY DESIGN LIGHTING/ELECTRICAL SECTION			
<b>INSTALLATION DETAILS</b> <b>CONDUIT AND JUNCTION BOXES</b>			
Drawn By:	JAS	Approved By:	[Signature]
Dwg. No.:			

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