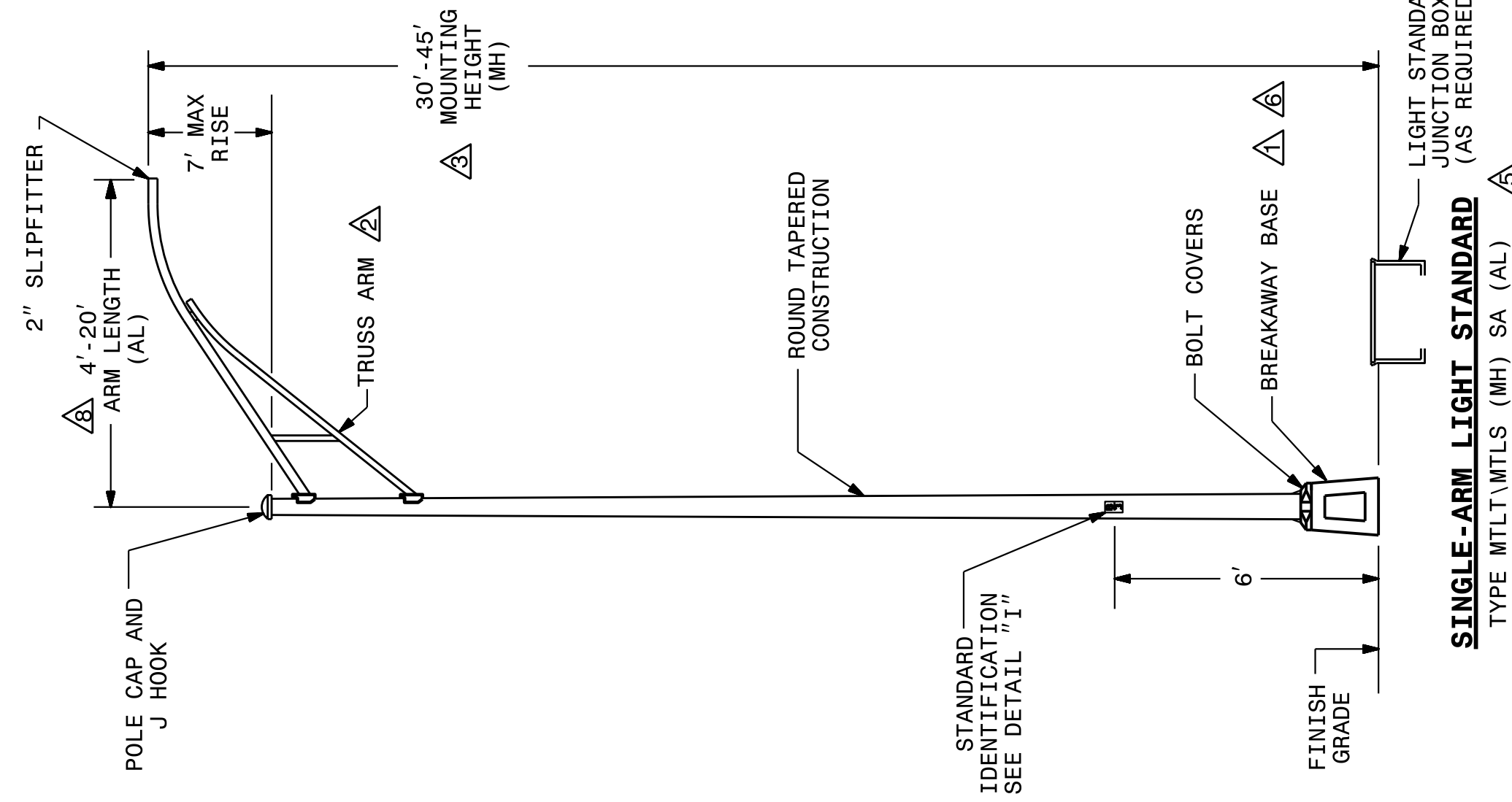


STATE OF NORTH CAROLINA
 DEPT. OF TRANSPORTATION
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 RALEIGH, N.C.

1-12

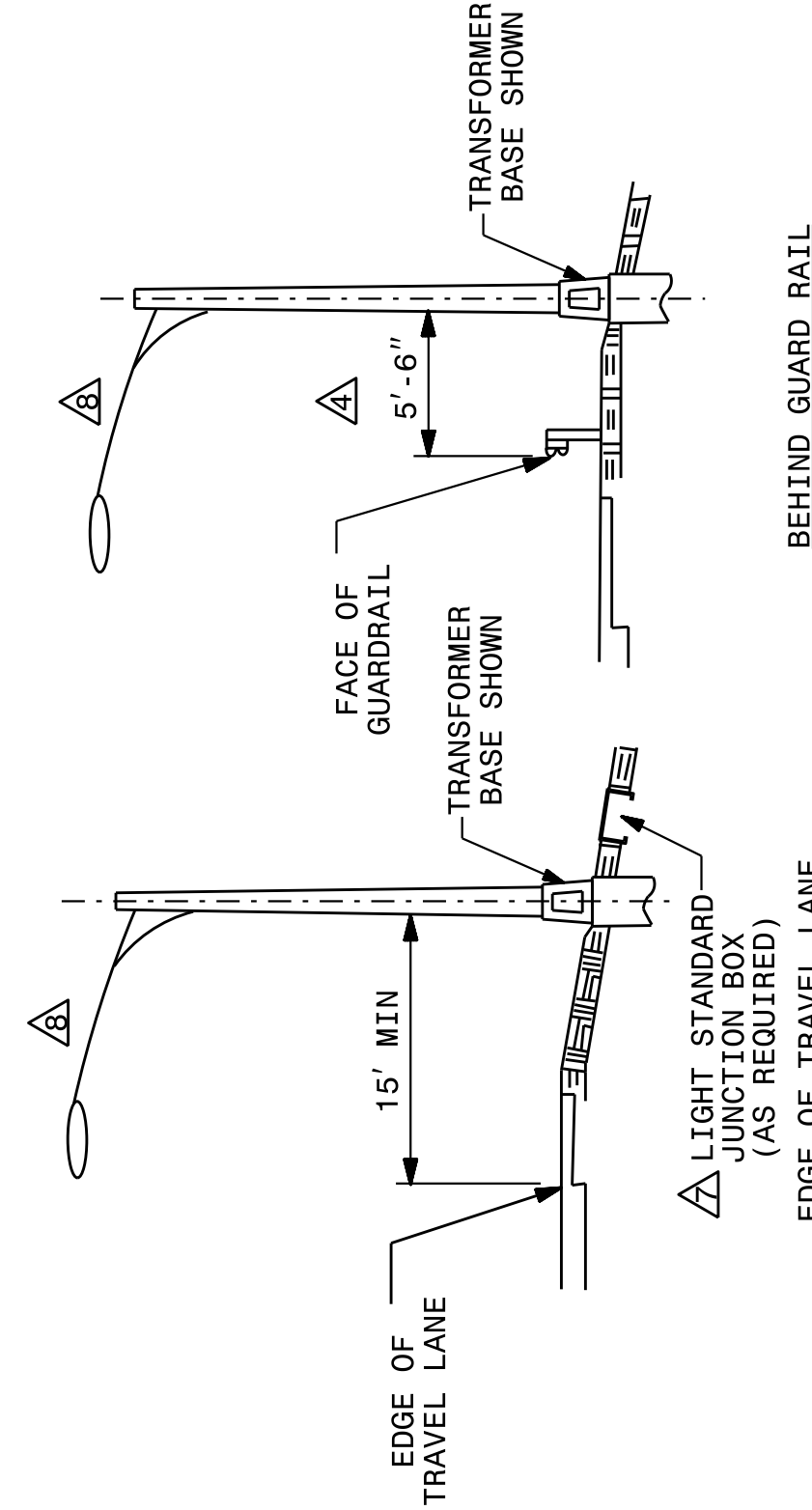
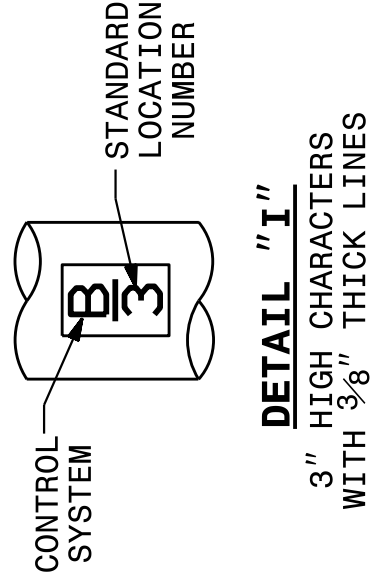
ENGLISH STANDARD DRAWING FOR
LIGHT STANDARDS
 SINGLE-ARM

SHEET 1 OF 3
1404D01



NOTES

- △ TRANSFORMER BASE SHOWN. OTHER BASES MEETING ASKTO BREAKAWAY REQUIREMENTS MAY BE PROVIDED IF APPROVED BY THE ENGINEER. SEE "BASE DETAILS" ON SHEET 2 OF 3.
- △ SINGLE-MEMBER ARMS MAY BE PROVIDED IN LIEU OF TRUSS ARMS, WHEN SPECIFIED ARM LENGTH IS 8' OR LESS AND MOUNTING HEIGHT IS 35' OR LESS.
- △ MOUNTING HEIGHT INCLUDES BREAKAWAY BASE FOR LIGHT STANDARDS WITH TRANSFORMER BASES. SEE "BASE DETAILS" ON SHEET 2 OF 3.
- △ STANDARD PLACEMENT MAY BE REDUCED TO 3'-6" BEHIND FACE OF GUARDRAIL WHEN POSTS ARE SPACED 3'-1 1/2', OR WHERE SPEED LIMIT IS LESS THAN 55 MPH.
- △ INSERT MOUNTING HEIGHT (MH) AND ARM LENGTH (AL) FROM PAY ITEM DESCRIPTION TO DETERMINE PROPOSED SINGLE-ARM LIGHT STANDARDS.
- △ LIGHT STANDARDS MOUNTED ON BRIDGE OUTRIGGERS OR BEHIND RETAINING/BARRIER WALLS DO NOT REQUIRE BREAKAWAY BASES.
- △ WHERE LIGHT STANDARD IS NOT PROTECTED BY GUARDRAIL, PROVIDE PC18 LIGHT STANDARD JUNCTION BOX WITHIN 2' OF LIGHT STANDARD FOUNDATION FOR CONNECTION OF CIRCUITRY.
- △ WHEN DIRECT POLE MOUNTED LUMINAIRES ARE USED, BRACKET ARM IS NOT REQUIRED.



STANDARD PLACEMENT

STATE OF NORTH CAROLINA
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ENGLISH STANDARD DRAWING FOR
LIGHT STANDARDS
 SINGLE-ARM

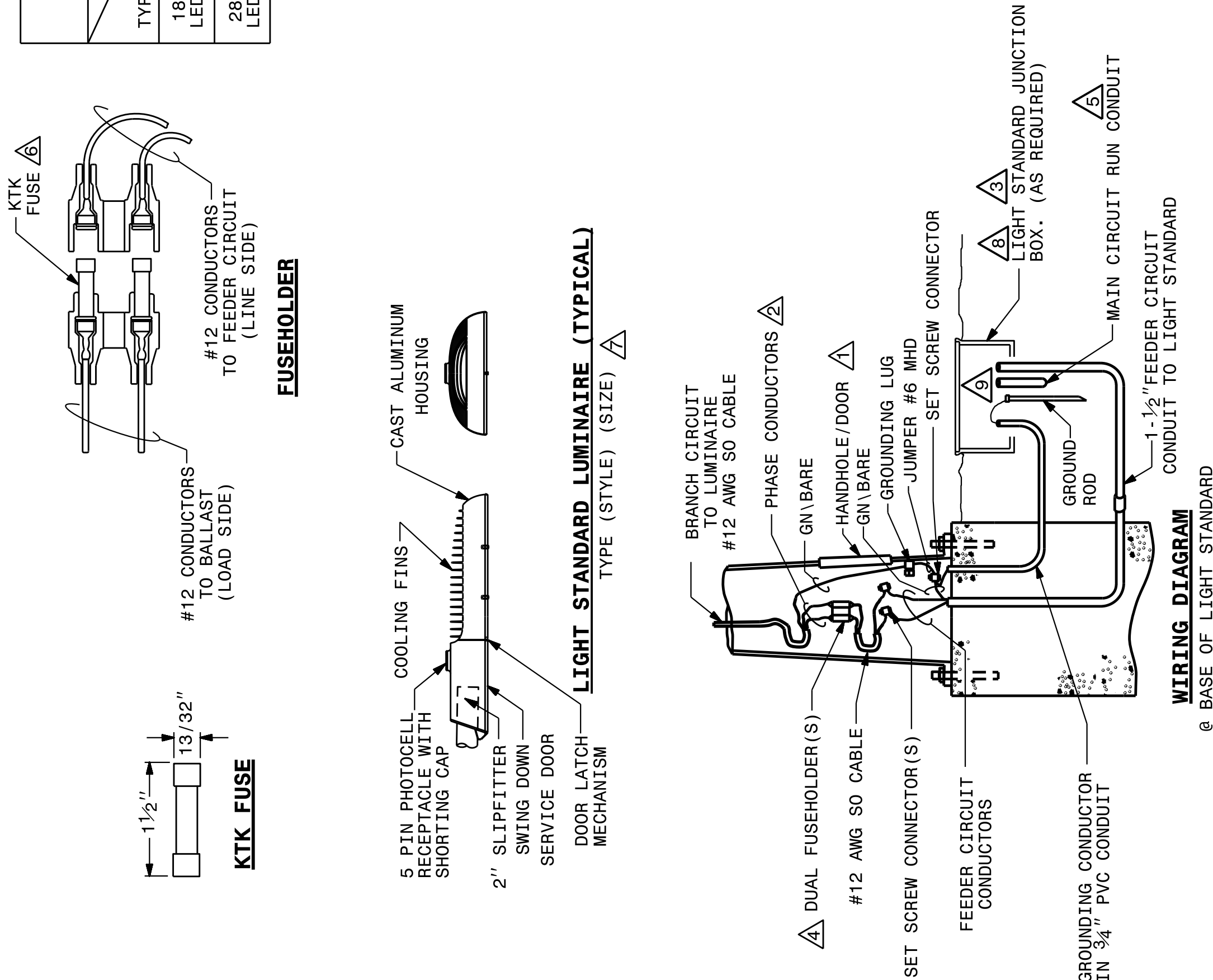
SHEET 1 OF 3
1404D01

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1-12

ENGLISH STANDARD DRAWING FOR
LIGHT STANDARD LUMINAIRES

SHEET 1 OF 1
1406D01



LUMINAIRE CHARACTERISTICS

SPEC	HPS RELACEMENT EQUIVALENT	COLOR TEMP	MAXIMUM LAMP LUMEN MAINTENANCE FACTOR (100K HOURS & 25° C)	MINIMUM DELIVERED LUMENS
TYPE	185W (MAX) LED FIXTURE	3500K-4500K	0.84	16,000
	285W (MAX) LED FIXTURE	3500K-4500K	0.84	24,500

NOTES

- △ PROVIDE ACCESS TO FUSEHOLDERS FROM HANDHOLE OR TRANSFORMER BASE.
- △ SEE STANDARD SPECIFICATIONS SECTION 1400-4F FOR WIRING METHODS. USE TAPE OR HEAT SHRINK TO COLOR CONDUCTORS TO MATCH PHASE COLOR (RED/BLACK/BLUE).
- △ MAKE SPLICES IN ACCORDANCE WITH SECTION 1400-4(F) OF THE STANDARD SPECIFICATIONS.
- △ BREAKAWAY FUSEHOLDERS REQUIRED AT ALL BREAKAWAY LIGHT STANDARDS.
- △ SIZE FEEDER CIRCUIT CONDUCTORS AS SHOWN IN THE PLANS.
- △ SEE STANDARD SPECIFICATIONS SECTION 1400-2E FOR FUSEHOLDERS.
- △ INSERT STYLE AND SIZE FROM PAY ITEM DESCRIPTION TO DETERMINE PROPOSED LUMINAIRES.
- △ INSTALL LIGHT STANDARD JUNCTION BOX WITH ANY LIGHT STANDARD NOT INSTALLED BEHIND GUARDRAIL.
- △ PERMANENTLY ATTACH GROUNDING CONDUCTOR TO GROUND ROD VIA EXOTHERMIC WELD.

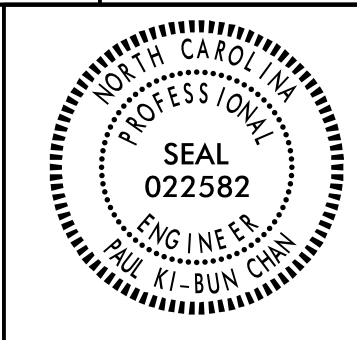
STATE OF NORTH CAROLINA
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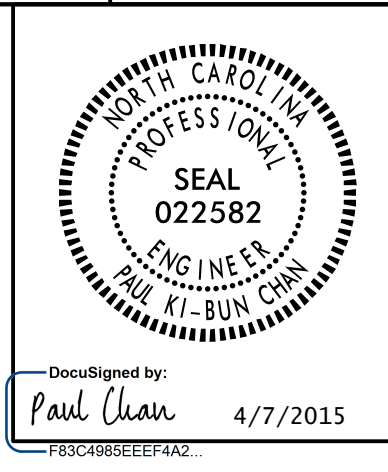
ENGLISH STANDARD DRAWING FOR
LIGHT STANDARD LUMINAIRES

SHEET 1 OF 1
1406D01

2			
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Rev.	Date	Description	Approved
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN LIGHTING/ELECTRICAL SECTION LIGHT STANDARD AND LIGHT STANDARD LUMINAIRE DETAILS ALSTON AVE/NC 147 INTERCHANGE DURHAM COUNTY Drawn By: AB Approved By: PC Dwg No.:			



DocuSigned by:
 Paul Chan 4/7/2015



PLANS AND DETAILS FOR PROPOSED LIGHTING /ELECTRICAL CONSTRUCTION

NOTES

- 1 AT THESE LOCATIONS, PROVIDE ELECTRICAL DUCT IN ACCORDANCE WITH NEC REQUIREMENTS FOR AN APPROVED RACEWAY FOR ELECTRICAL CIRCUITS. SEE TABLE "C"
- 2 INSTALL ALL BORE PITS OUTSIDE THE CLEAR ZONE, AS DEFINED BY THE 2011 AASHTO ROADSIDE DESIGN GUIDE OR AS DIRECTED BY THE ENGINEER.
- 3 LOCATE ALL JUNCTION BOXES OUTSIDE CLEAR ZONE AND IN AN AREA UNLIKELY TO BE USED BY TRAFFIC.
- 4 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.
- 5 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.
- 6 TYPE PC18 JUNCTION BOXES ARE 18" L X 12" W X 18" H.
- 7 TYPE PC36 JUNCTION BOXES ARE 36" L X 24" W X 18" H.
- 8 PLACE SINGLE ARM STANDARD ACCORDING TO DETAIL DRAWING 1404D01 (SHEET 1 OF 3), PLANSHEET E5, AND WHERE REQUIRED, PLACE JUNCTION BOX WITHIN 2' OF SINGLE ARM LIGHT STANDARD.
- 9 INSTALL ELECTRICAL DUCT FOR BEST ALIGNMENT OF CIRCUITRY AS SHOWN ON PLANS.
- 10 PLACE TWIN ARM STANDARD OFF CENTER OF MEDIAN AND MINIMUM OF 5' FROM DITCHLINE.
- 11 HIGH MAST FOUNDATION SHALL BE SET APPROXIMATELY 40' FROM THE OVER POWER LINES.
- 12 THE CONTRACTOR SHALL NOT DISTURB UNDERGROUND UTILITY CABLES WHEN LOCATING ROADWAY LIGHTING FOUNDATIONS.
- 13 ADDITIONAL JUNCTION BOXES ARE REQUIRED AS PART OF GENERIC LIGHTING PAY ITEMS AS SHOWN IN HIGH MAST STANDARD FOUNDATION, LIGHT CONTROL SYSTEM, AND STANDARD FOUNDATION. THESE JUNCTION BOXES ARE TO BE PAID FOR AS PART OF THE RESPECTIVE GENERIC LIGHTING PAY ITEMS.

SCOPE OF WORK

PLACE ROADWAY LIGHTING SYSTEM INTO SERVICE BY PROVIDING AND INSTALLING 120' AND 60' HIGH MOUNT STANDARDS, SINGLE ARM STANDARDS, AND TWIN ARM STANDARDS WITH LIGHT EMITTING DIODE LUMINAIRES, UNDERGROUND CIRCUITRY, CONTROL SYSTEM AND JUNCTION BOXES.

DESIGN CRITERIA

- 0.8 AVERAGE FOOTCANDLES ON TRAVEL LANES
- 4:1 AVERAGE TO MINIMUM UNIFORMITY RATIO ON TRAVEL LANES
- 2005 AASHTO ROADWAY LIGHTING DESIGN GUIDE
- 2009 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS, 5TH EDITION AND LATEST INTERIM SPECIFICATIONS VALID AT THE TIME OF LETTING
- FATIGUE CATEGORY II SHALL BE USED IN DESIGN
- DESIGN HIGH MOUNT SUPPORT FOR BASIC WIND SPEED OF 90 MPH
- DESIGN HIGH MOUNT STANDARD FOUNDATION FOR BASIC WIND SPEED OF 110 MPH. ANY CONTRACTOR-DESIGNED SITE SPECIFIC FOUNDATION DESIGN SHALL BE DESIGNED FOR THE SAME WIND SPEED
- 2014 NATIONAL ELECTRICAL CODE
- 2011 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 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 DETAIL SHEET 1401D01 IN LIEU OF STANDARD DRAWING 1401.01 SHEET 1)
1404.01	LIGHT STANDARDS (USE ATTACHED DETAIL SHEET 1404D01 IN LIEU OF STANDARD DRAWING 1404.01 SHEET 1)
1405.01	STANDARD FOUNDATION
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 2012.

LEGEND

- PROPOSED 60' HIGH MAST STANDARD W/ HM FOUNDATION & (4) HM LED LUMINAIRES. 320W MAX, 30,000 MIN. INITIAL LUMENS, MAX BUG RATING 5-0-5, TYPE V
- PROPOSED 120' HIGH MAST STANDARD W/ HM FOUNDATION & (8) HM LUMINAIRES 550W MAX, 53,000 MIN. INITIAL LUMENS, MAX BUG RATING 5-0-5, TYPE V
- PROPOSED LIGHT STANDARD TYPE MTLT 45' WITH 15' TWIN ARMS. INCLUDES STANDARD FOUNDATION TYPE R1 OR R2 IN MEDIAN WITH 185W MAX LED ROADWAY LUMINAIRE. IES DISTRIBUTION: TYPE II OR III AS REQUIRED MAX BUG RATING 3-0-3
- PROPOSED LIGHT STANDARD TYPE MTLT 45' WITH 15' SINGLE ARM. INCLUDES STANDARD FOUNDATION TYPE R1 OR R2 & 185W MAX LED ROADWAY LUMINAIRE. IES DISTRIBUTION: TYPE II OR III AS REQUIRED MAX BUG RATING 3-0-3
- PROPOSED CONTROL SYSTEM WITH PC36 JUNCTION BOX. BREAKER SIZE SHOWN IN LOAD SCHEDULE, SHEET E2
- PROPOSED ELECTRICAL JUNCTION BOX SEE DETAILS & TABLE B, THIS SHEET
- REFERENCE TO CORRESPONDING NOTE AS NUMBERED
- 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, THIS SHEET

TABLE "B"
JUNCTION BOX SUMMARY

NUMBER	LOCATION	TYPE	SHEET
JB1	10+82 -R5- 20' RT	PC36	E2
JB2	APPROX. 280' FROM JB1, BESIDE R5	PC18	E2
JB3	ACROSS FROM JB4-15' FROM EOT	PC18	E2
JB4	IN NC 147 MEDIAN, 430' PED. BRG.	PC18	E2
JB5	12+14 -R4- 42' LT	PC18	E2
JB6	19+90 -LALT- 60' LT	PC18	E2
JB7	10+65 -R3- 42' RT	PC18	E2
JB8	AT SA#1	PC18	E2
JB9	18+46 -R3- 13' RT	PC18	E2
JB10	18+46 -R3- 60' LT	PC18	E2
JB11	ACROSS FROM JB10	PC18	E2
TOTALS		10	1

TABLE "D"
SINGLE & TWIN ARM STANDARD SUMMARY

LOCATION	SINGLE ARM	TWIN ARM
12+86 -R3-	SA#1	
15+23 -R3-	SA#2	
220' FROM SA#4	SA#3	
220' FROM SA#5	SA#4	
12+10 -R1-	SA#5	
220' WEST OF TA#2		TA#1
220' WEST OF TA#3		TA#2
220' WEST OF TA#4		TA#3
10+20 -YA- 5'LT		TA#4
95' WEST OF PEDESTRIAN BRIDGE		TA#5
220' EAST OF TA#5		TA#6
220' EAST OF TA#6		TA#7
220' EAST OF TA#7		TA#8
TOTALS	5	8

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
*8	2 #8 Ø 1 #10G	2 AWG SIZE 8 CONDUCTOR (BK & RD) 1 AWG SIZE 10 GROUNDING CONDUCTOR

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

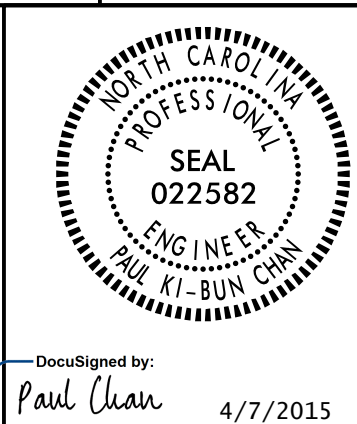
LOCATION	RACEWAY	SHEET	TYPE					
			JACKED (JA) FEET			BURIED (BD) FEET		
			SIZE 2"	SIZE 3"	SIZE 4"	SIZE 2"	SIZE 3"	SIZE 4"
10+82 -R5-	CS"A" - JB1	E2				50		
10+82 -R5-		E2			30			
20+00 -LALT-	JB1 - JB6	E2				110		
20+00 -LALT-		E2			90			
12+14 -R4-	JB1 - JB5	E2				50		
12+14 -R4-		E2			30			
18+46 -R3-	JB9 - JB10	E2				95		
18+46 -R3-		E2			75			
18+46 -R3-		E2		75				
-YA- IN MEDIAN, 430' FROM PEDESTRIAN BRIDGE		E2		75				
TOTALS				150	225	305		

ABBREVIATIONS

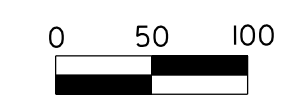
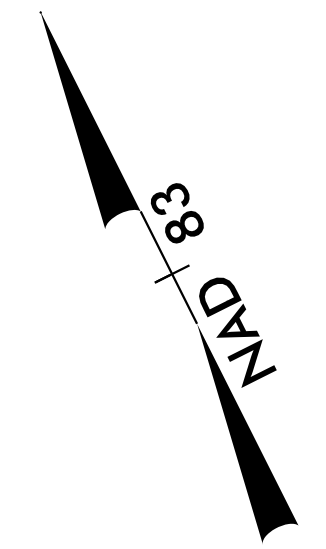
BD	BURIED	PVC	PVC SCHEDULE 40 CONDUIT
LT	LIGHT	RGC	RIGID GALVANIZED STEEL CONDUIT
JA	JACKED	C	CONDUIT
MH	MOUNTING HEIGHT	CKT	CIRCUIT
Ø	PHASE	N	NEUTRAL
SER LAT	SERVICE LATERAL	G	GROUND
		HM	HIGH MAST

COMPUTED BY: AB DATE: 4-7-2015
 CHECKED BY: PKC DATE: 4-7-2015

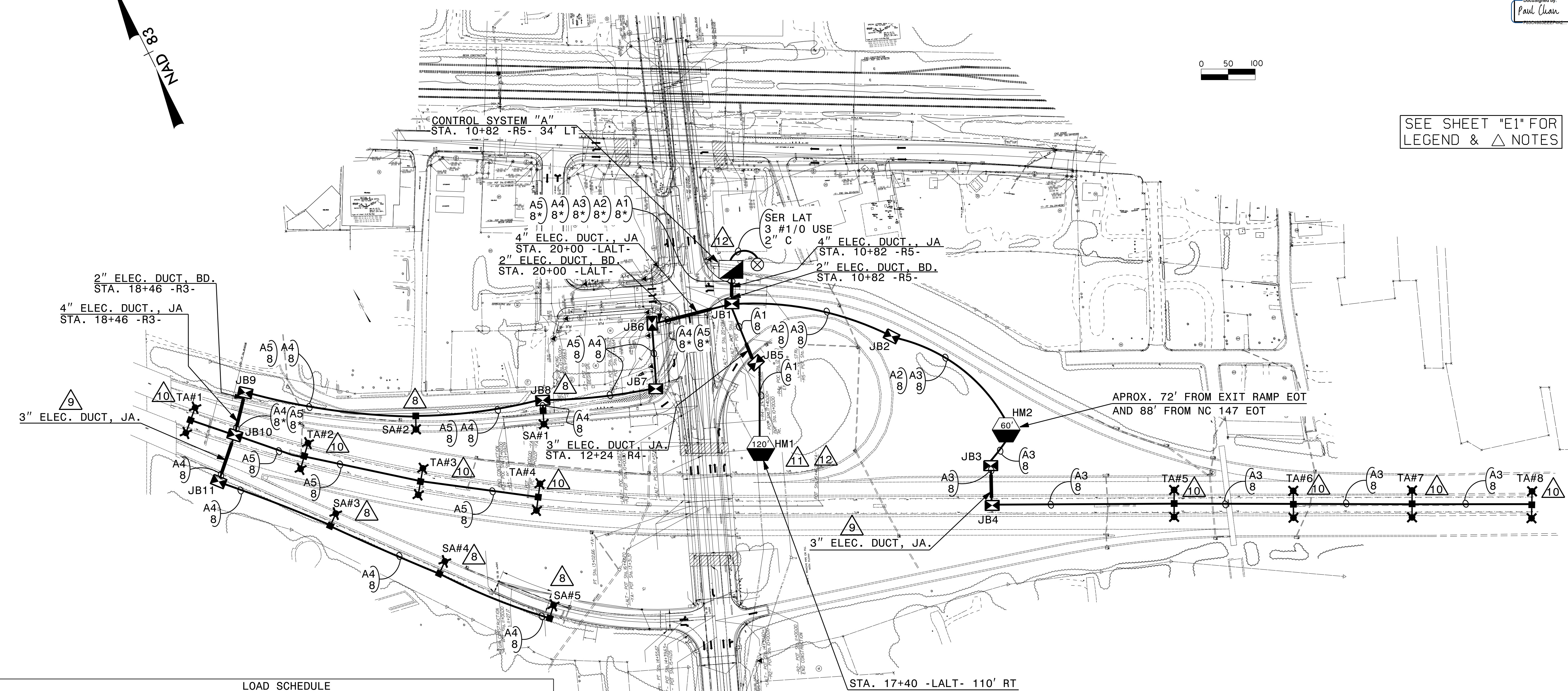
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USE FOR LIGHTING CONSTRUCTION ONLY



SEE SHEET "E1" FOR LEGEND & △ NOTES



LOAD SCHEDULE
ALSTON AVE/NC 147 INTERCHANGE, NE QUAD
CONTROL SYSTEM "A"

1Ø, 3W, 240/480 VAC							
CIRCUIT ID	SINGLE ARM 1 @ 185W MAX. LED	TWIN ARM 2 @ 185W MAX LED	60' HIGH MAST W/ 4 320W MAX. LED LUMINAIRES	120' HIGH MAST W/ 8 550W MAX. LED LUMINAIRES	AMPS @ 480V	KW LOAD	BREAKER SIZE (AMPS)
A1				HM1	9.17	4.4	15
A2				HM2	2.67	1.28	15
A3		TA5, TA6, TA7, TA8			3.08	1.48	15
A4	SA1, SA2, SA3, SA4, SA5				1.93	0.93	15
A5		TA1, TA2, TA3, TA4			3.08	1.48	15
SPARE							15
TOTAL	5	8	1	1	19.93	9.57	

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Rev.	Date	Description	Approved
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN LIGHTING/ELECTRICAL SECTION LIGHTING LAYOUT ALSTON AVENUE/NC 147 INTERCHANGE DURHAM COUNTY			
Drawn By:	AB	Approved By:	PL
Dwg No.:			

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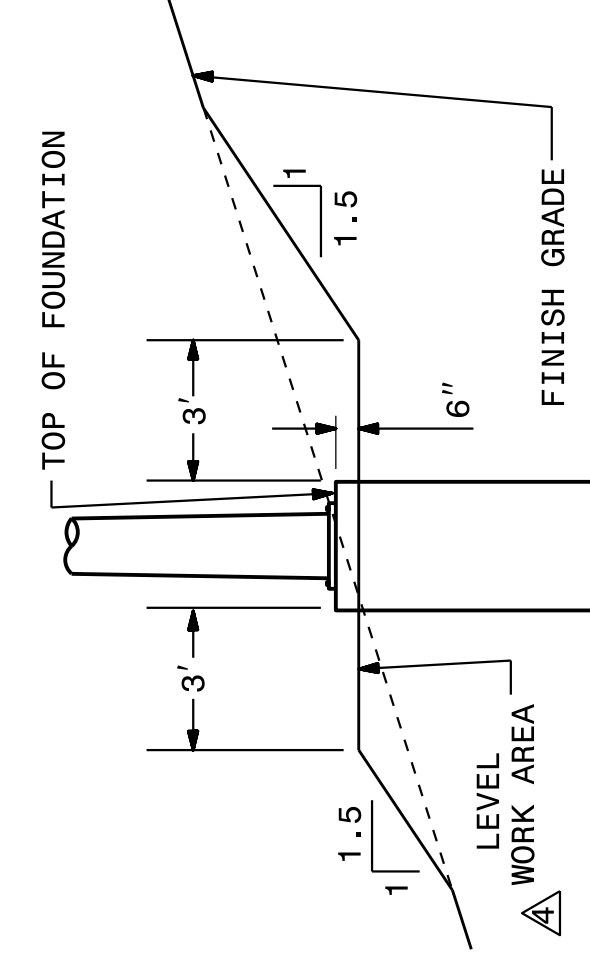
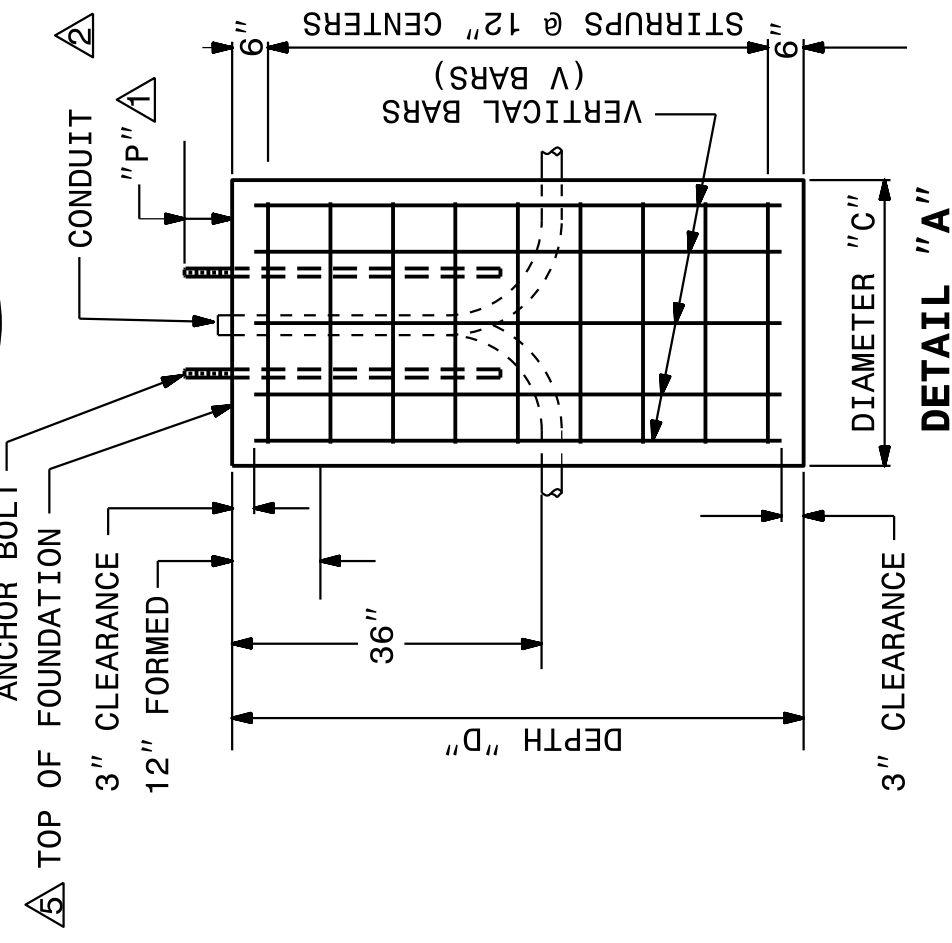
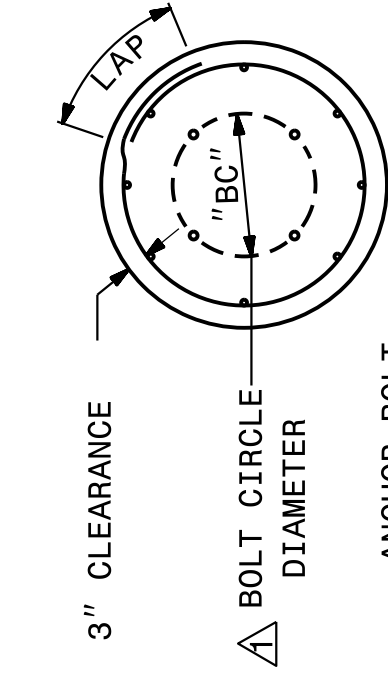
ENGLISH STANDARD DRAWING FOR
HIGH MOUNT FOUNDATION

SHEET 1 OF 1
1402D01

TABLE OF FOUNDATION DIMENSIONS AND QUANTITIES

HEIGHT OF HIGH MOUNT FT	STIRRUPS		WIND VELOCITY MPH														
	DIAMETER "C" FT	SIZE	90		110		130										
			V BARS QTY	REINF. * STEEL LBS	CONCRETE CY	DEPTH "D" FT	V BARS QTY	REINF. * STEEL LBS	CONCRETE CY	DEPTH "D" FT	V BARS QTY	REINF. * STEEL LBS	CONCRETE CY				
60	3.5	#3	8	280	3.9	12	8	306	4.3	13	8	331	4.6	15	8	382	5.3
80	3.5	#3	8	306	4.3	13	8	331	4.6	15	8	382	5.3	16	8	413	5.9
100	4.0	#3	8	413	6.1	15	8	477	7.0	16	8	509	7.4	18	8	557	8.2
120	4.5	#3	8	557	8.2	16	8	636	9.4	18	8	716	10.6				

* INCLUDES STIRRUPS AND VERTICAL BARS (V BARS)



NOTES

- ANCHOR BOLTS
 CONFORM NUMBER, SIZE, AND LENGTH OF ANCHOR BOLTS, BOLT CIRCLE DIAMETER "BC", AND ANCHOR BOLT PROJECTION "P" TO APPROVED HIGH MOUNT STANDARD DRAWINGS.
- CONDUITS
 MATCH ORIENTATION, QUANTITY, TYPE, AND SIZE OF CONDUITS TO THE LAYOUT SHEETS. STUB AND CAP ONE SPARE CONDUIT AT EACH FOUNDATION. PROJECT FOUNDATION A MAXIMUM OF 2" ABOVE TOP OF FOUNDATION. PLACE CONDUIT 30" BENEATH FINISH GRADE. INCLUDE 3/4" CONDUIT FOR GROUNDING ELECTRODE CONDUCTOR TO GROUND ROD AT HIGH MAST FOUNDATION.
- DIMENSIONS & QUANTITIES
 DIMENSIONS AND QUANTITIES OF CONCRETE AND REINFORCING STEEL ARE GIVEN FOR THE PURPOSE OF OBTAINING BID PRICES ONLY. SEE PROJECT SPECIAL PROVISIONS FOR OTHER STRUCTURAL REQUIREMENTS.
- WORK AREA
 PROVIDE A LEVEL WORK AREA AROUND EACH FOUNDATION. CUT/FILL SLOPES MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER.
- ELEVATION
 SET TOP OF FOUNDATION AT .6" ABOVE LEVEL WORK AREA. SEE DETAIL "B".
- GUARDRAIL
 WHERE GUARDRAIL IS REQUIRED TO BE INSTALLED AS PART OF LIGHTING WORK, SET GUARDRAIL NO MORE THAN 8' FROM CENTER OF HIGH MAST FOUNDATION.

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 RALEIGH, N.C.

1-12

ENGLISH STANDARD DRAWING FOR
HIGH MOUNT FOUNDATION

SHEET 1 OF 1
1402D01

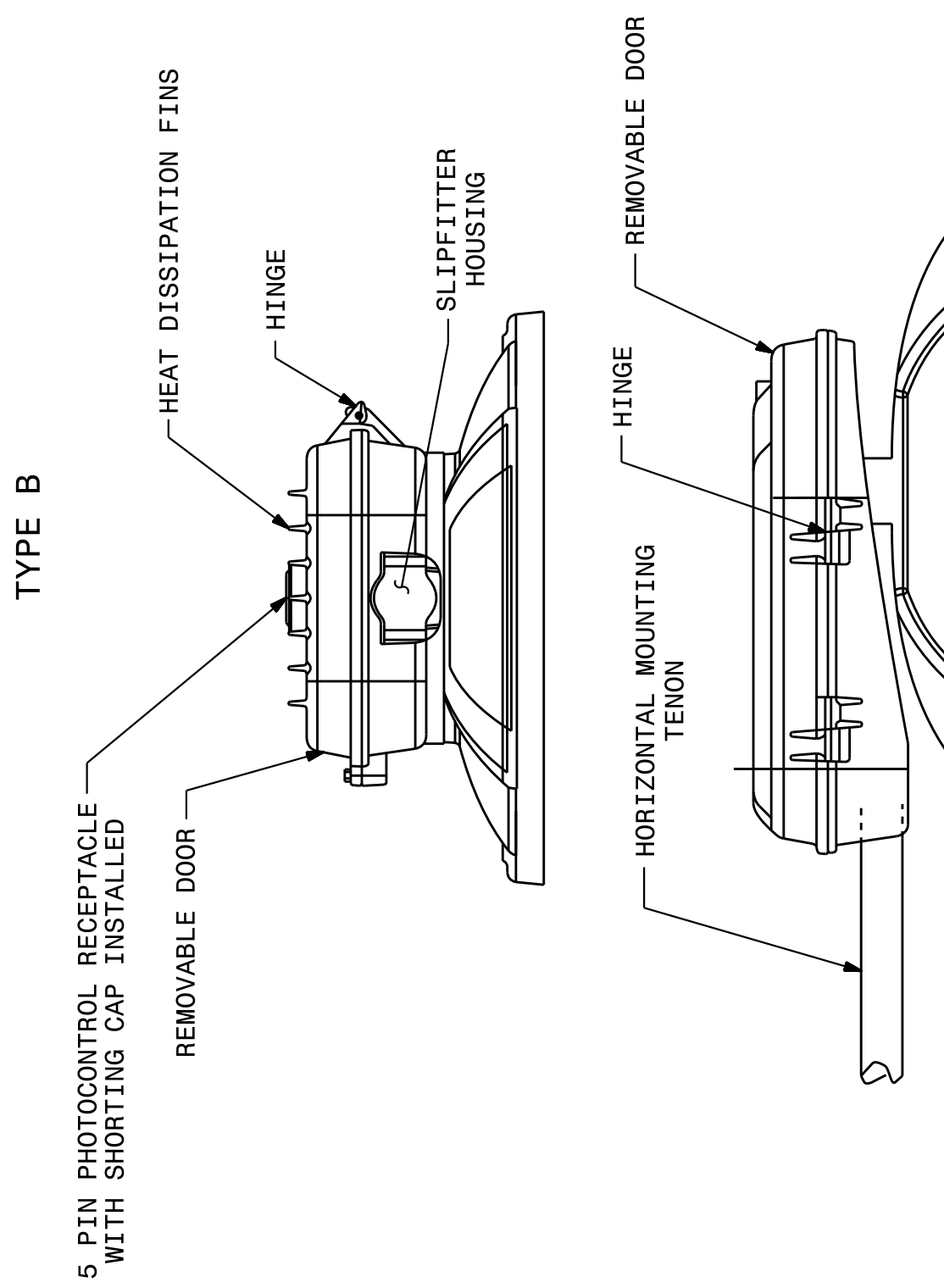
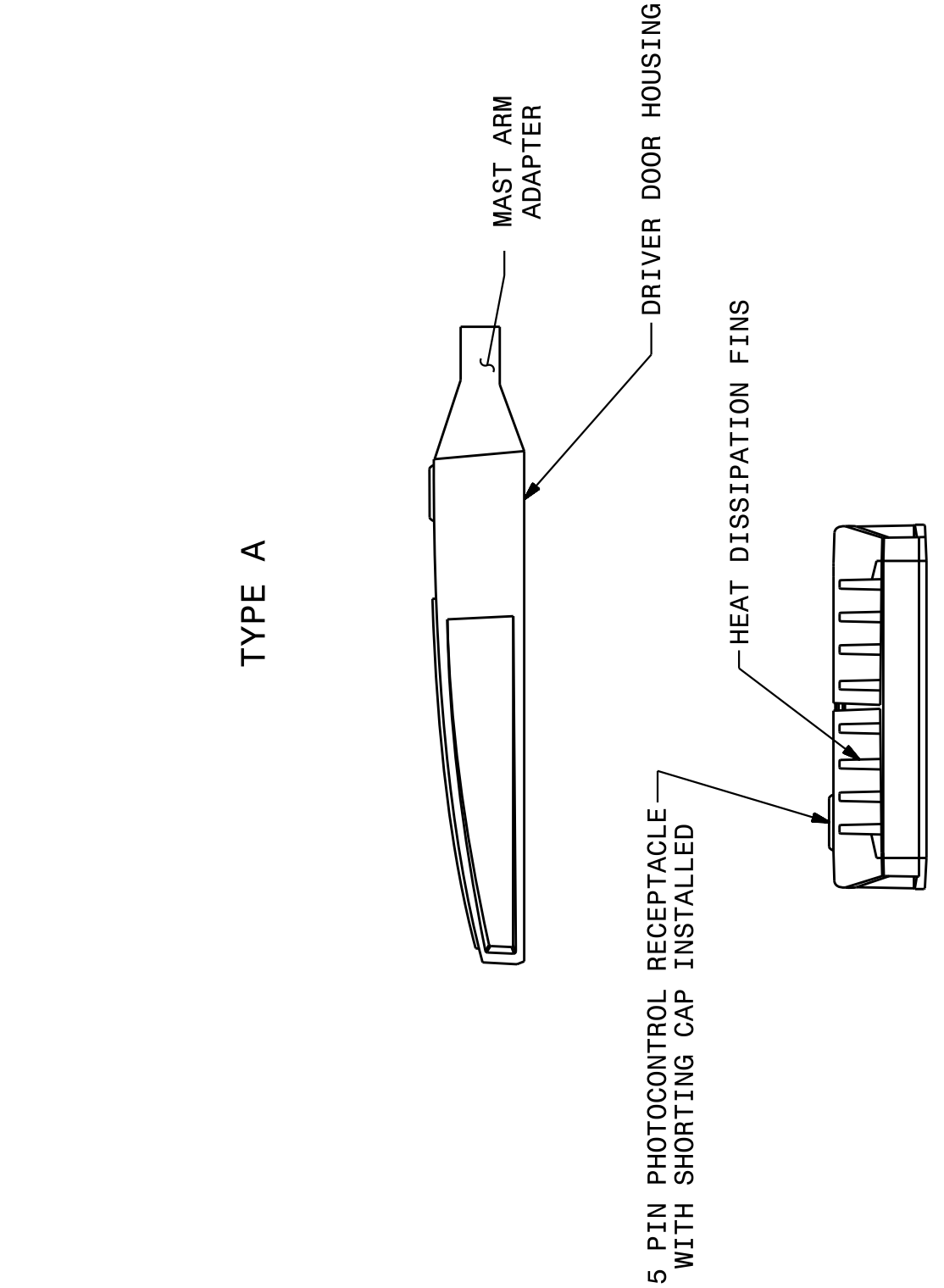
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1-12

ENGLISH STANDARD DRAWING FOR
HIGH MOUNT LED LUMINAIRES

SHEET 1 OF 1
1403D01

TYPICAL CONFIGURATION TYPES



LED LUMEN PACKAGES

MOUNTING HEIGHT	# OF LUMINAIRES	MAXIMUM LUMINAIRE WATTAGE	MINIMUM LUMINAIRE DELIVERED (LUMENS)	MAXIMUM LAMP LUMEN MAINTENANCE FACTOR (100K HOURS @ 25° C)	COLOR TEMP.
60'	4	320	30,000	0.83	4,000K
80'	8	320	30,000	0.83	4,000K
100'	6	550	53,000	0.83	4,000K
120'	8	550	53,000	0.83	4,000K

NOTES

- SEE PLANS FOR LIES DISTRIBUTION

STATE OF NORTH CAROLINA
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 RALEIGH, N.C.

1-12

ENGLISH STANDARD DRAWING FOR
HIGH MOUNT LED LUMINAIRES

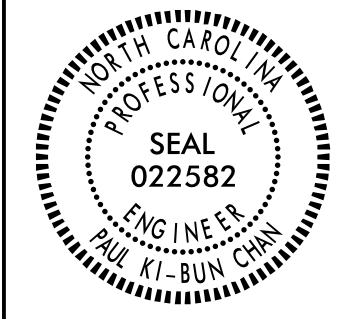
SHEET 1 OF 1
1403D01

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Rev.	Date	Description	Approved
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN LIGHTING/ELECTRICAL SECTION HIGH MOUNT FOUNDATION AND HIGH MOUNT LED LUMINAIRE DETAILS ALSTON AVE/NC 147 INTERCHANGE DURHAM COUNTY Drawn By: AB Approved By: <i>PC</i> Dwg No.:			

DocuSigned by:
Paul Chan 4/7/2015
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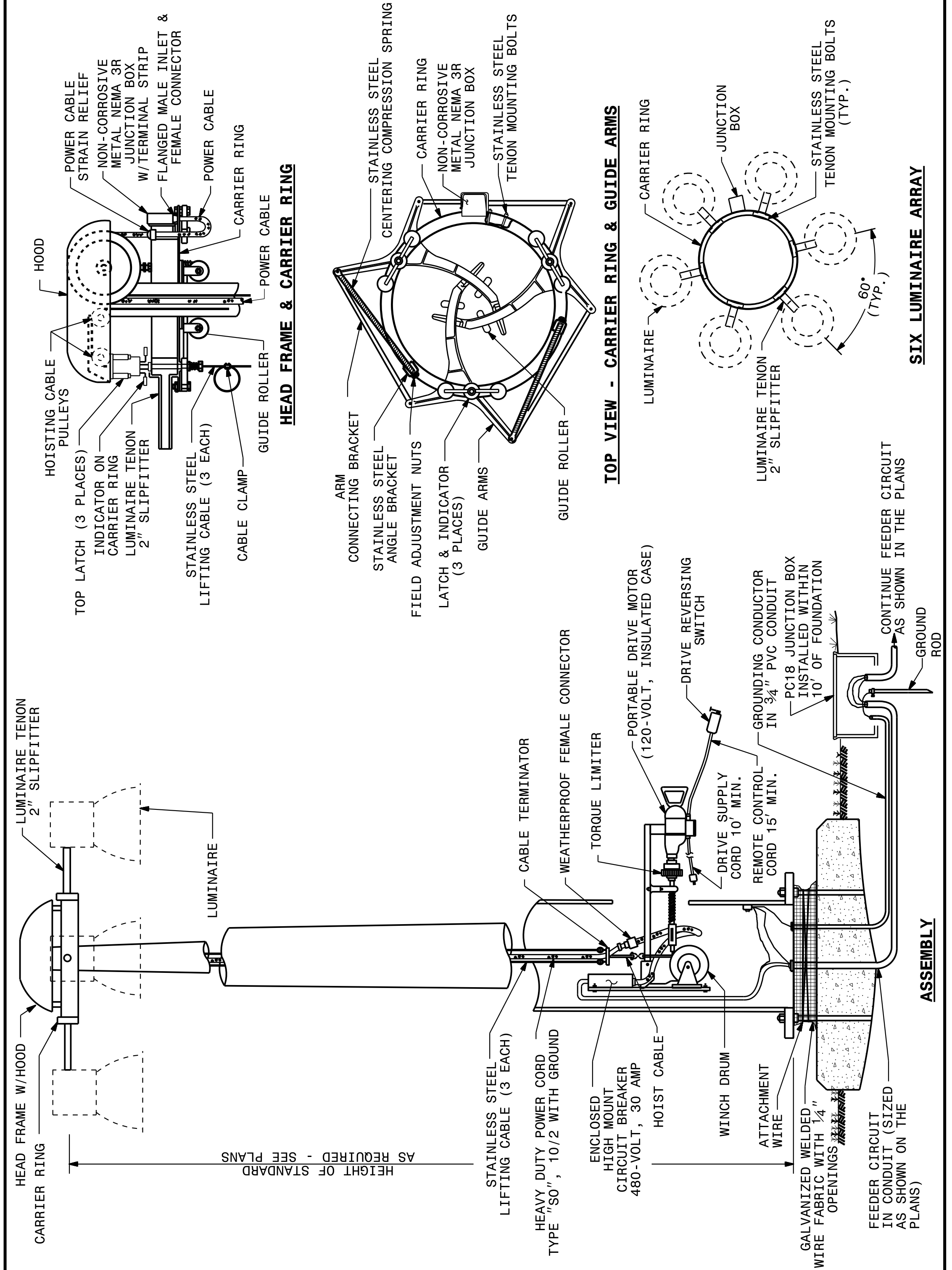
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 DEPT. OF TRANSPORTATION
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1-12

ENGLISH STANDARD DRAWING FOR
HIGH MOUNT STANDARD
 ASSEMBLY

SHEET 1 OF 2
1401D01



STATE OF NORTH CAROLINA
 DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 RALEIGH, N.C.

1-12

ENGLISH STANDARD DRAWING FOR
HIGH MOUNT STANDARD
 ASSEMBLY

SHEET 1 OF 2
1401D01

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Rev.	Date	Description	Approved
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN LIGHTING/ELECTRICAL SECTION HIGH MOUNT STANDARD DETAILS ALSTON AVE/NC 147 INTERCHANGE DURHAM COUNTY			
Drawn By:	AB	Approved By:	PC
		Dwg No.:	