

APRON EXPANSION

SCHEDULE 1 - CONCRETE PAVEMENT

SCHEDULE 2 - BITUMINOUS PAVEMENT

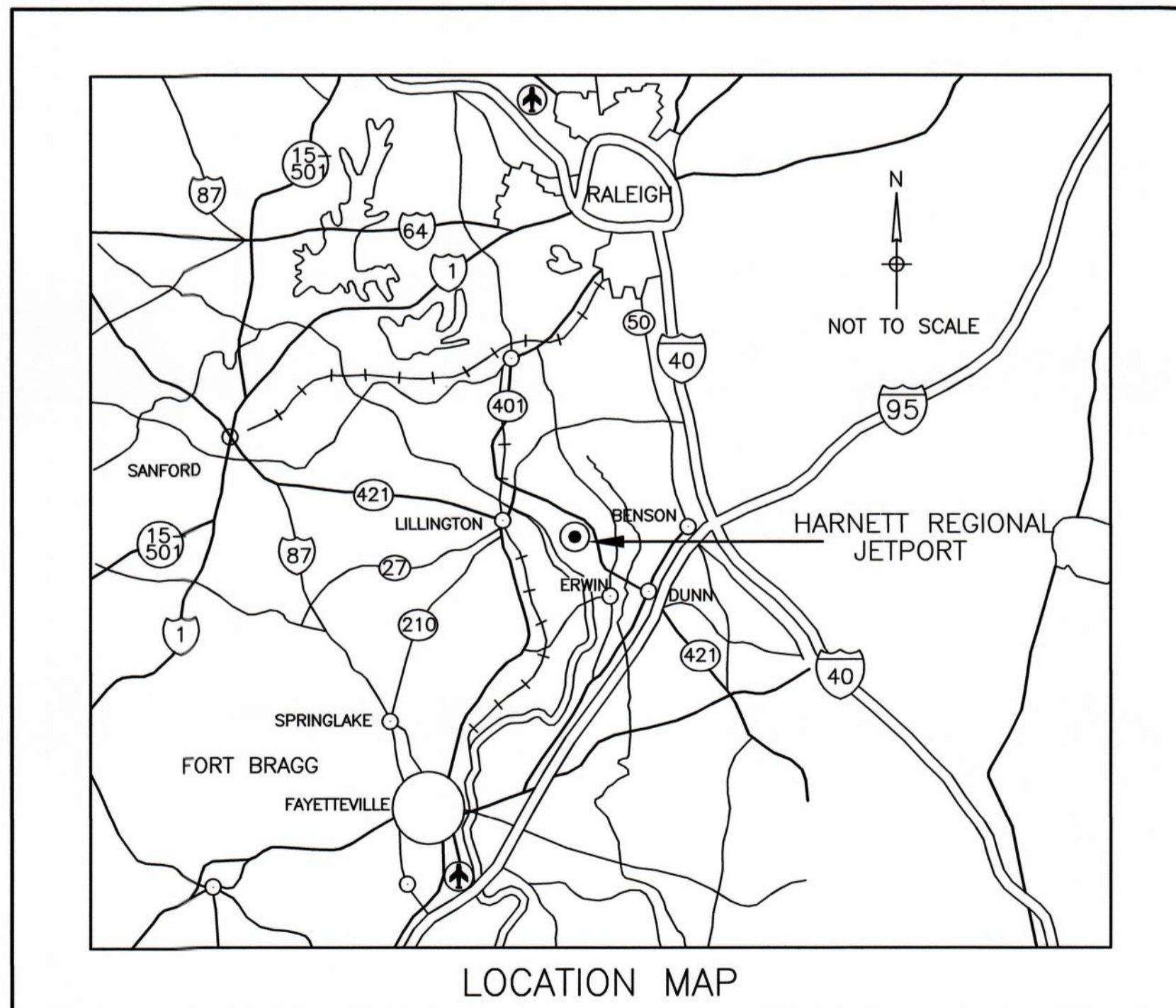
HARNETT REGIONAL JETPORT HARNETT COUNTY, NORTH CAROLINA STATE PROJECT NO. (DESIGN AND CONSTRUCTION) - 36244.35.7.1

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REV. NO.	DESCRIPTION	DATE

LIST OF DRAWINGS – SCHEDULE 1 AND SCHEDULE 2		
DRAWING	TITLE OF DRAWING	DATE
1	TITLE SHEET	DECEMBER 2021
2	OVERALL SAFETY PLAN	DECEMBER 2021
3	PHASING PLAN – (PHASE 1 OF 3)	DECEMBER 2021
4	PHASING PLAN – (PHASE 2 OF 3)	DECEMBER 2021
5	PHASING PLAN – (PHASE 3 OF 3)	DECEMBER 2021
6	SURVEY CONTROL PLAN	MARCH 2020
7	EXISTING CONDITIONS	MARCH 2020
8	OVERALL GENERAL SITE PLAN	DECEMBER 2021
9	STORMWATER MANAGEMENT OUTLET CONTROL PLAN	MARCH 2020
E1	ELECTRICAL LEGEND, NOTES, SCHEDULE AND VAULT PLAN	MARCH 2020
E2	ELECTRICAL PLAN	MARCH 2020
E3	ELECTRICAL DETAILS	MARCH 2020
E4	ELECTRICAL DETAILS	MARCH 2020



LIST OF DRAWINGS – SCHEDULE 1 (CONCRETE ALTERNATIVE)		
DRAWING	TITLE OF DRAWING	DATE
C1	DEMOLITION AND REMOVAL PLAN	DECEMBER 2021
C2	CONCRETE JOINT LAYOUT PLAN	DECEMBER 2021
C3	CONCRETE JOINT ELEVATION PLAN	MARCH 2020
C4	GRADING AND DRAINAGE PLAN	DECEMBER 2021
C5	CONCRETE PAVING DETAILS (SHEET 1 OF 2)	MARCH 2020
C6	CONCRETE PAVING DETAILS (SHEET 2 OF 2)	MARCH 2020
C7	STORMWATER PROFILES	MARCH 2020
C8	STORM DRAINAGE DETAILS (SHEET 1 OF 2)	MARCH 2020
C9	STORM DRAINAGE DETAILS (SHEET 2 OF 2)	MARCH 2020
C10-1	EROSION AND SEDIMENT CONTROL PLAN – STAGE 1	DECEMBER 2021
C10-2	EROSION AND SEDIMENT CONTROL PLAN – STAGE 2	DECEMBER 2021
C11	EROSION AND SEDIMENT CONTROL DETAILS (SHEET 1 OF 3)	DECEMBER 2021
C12	EROSION AND SEDIMENT CONTROL DETAILS (SHEET 2 OF 3)	MARCH 2020
C13	EROSION AND SEDIMENT CONTROL DETAILS (SHEET 3 OF 3)	MARCH 2020
C14	MARKING PLAN	DECEMBER 2021
C15	MARKING DETAILS	MARCH 2020
C16	LIGHTING LAYOUT PLAN	MARCH 2020
C17	LIGHTING CIRCUIT PLAN	MARCH 2020
C18	LIGHTING DETAILS (SHEET 1 OF 2)	MARCH 2020
C19	LIGHTING DETAILS (SHEET 2 OF 2)	MARCH 2020
C20	CROSS SECTIONS (SHEET 1 OF 3)	MARCH 2020
C21	CROSS SECTIONS (SHEET 2 OF 3)	MARCH 2020
C22	CROSS SECTIONS (SHEET 3 OF 3)	MARCH 2020

LIST OF DRAWINGS – SCHEDULE 2 (BITUMINOUS ALTERNATIVE)		
DRAWING	TITLE OF DRAWING	DATE
B1	DEMOLITION AND REMOVAL PLAN	DECEMBER 2021
B2	PAVEMENT LAYOUT PLAN	DECEMBER 2021
B3	GRADING AND DRAINAGE PLAN	DECEMBER 2021
B4	BITUMINOUS PAVEMENT DETAILS (SHEET 1 OF 2)	MARCH 2020
B5	STORMWATER PROFILES	MARCH 2020
B6	STORM DRAINAGE DETAILS (SHEET 1 OF 2)	MARCH 2020
B7	STORM DRAINAGE DETAILS (SHEET 2 OF 2)	MARCH 2020
B8-1	EROSION AND SEDIMENT CONTROL PLAN – STAGE 1	DECEMBER 2021
B8-2	EROSION AND SEDIMENT CONTROL PLAN – STAGE 2	DECEMBER 2021
B9	EROSION AND SEDIMENT CONTROL DETAILS (SHEET 1 OF 3)	DECEMBER 2021
B10	EROSION AND SEDIMENT CONTROL DETAILS (SHEET 2 OF 3)	MARCH 2020
B11	EROSION AND SEDIMENT CONTROL DETAILS (SHEET 3 OF 3)	MARCH 2020
B12	MARKING PLAN	DECEMBER 2021
B13	MARKING DETAILS	MARCH 2020
B14	LIGHTING LAYOUT PLAN	MARCH 2020
B15	LIGHTING CIRCUIT PLAN	MARCH 2020
B16	LIGHTING DETAILS (SHEET 1 OF 2)	MARCH 2020
B17	LIGHTING DETAILS (SHEET 2 OF 2)	MARCH 2020
B18	CROSS SECTIONS (SHEET 1 OF 3)	MARCH 2020
B19	CROSS SECTIONS (SHEET 2 OF 3)	MARCH 2020
B20	CROSS SECTIONS (SHEET 3 OF 3)	MARCH 2020

HARNETT REGIONAL JETPORT
 HARNETT COUNTY, NORTH CAROLINA
APRON EXPANSION
TITLE SHEET



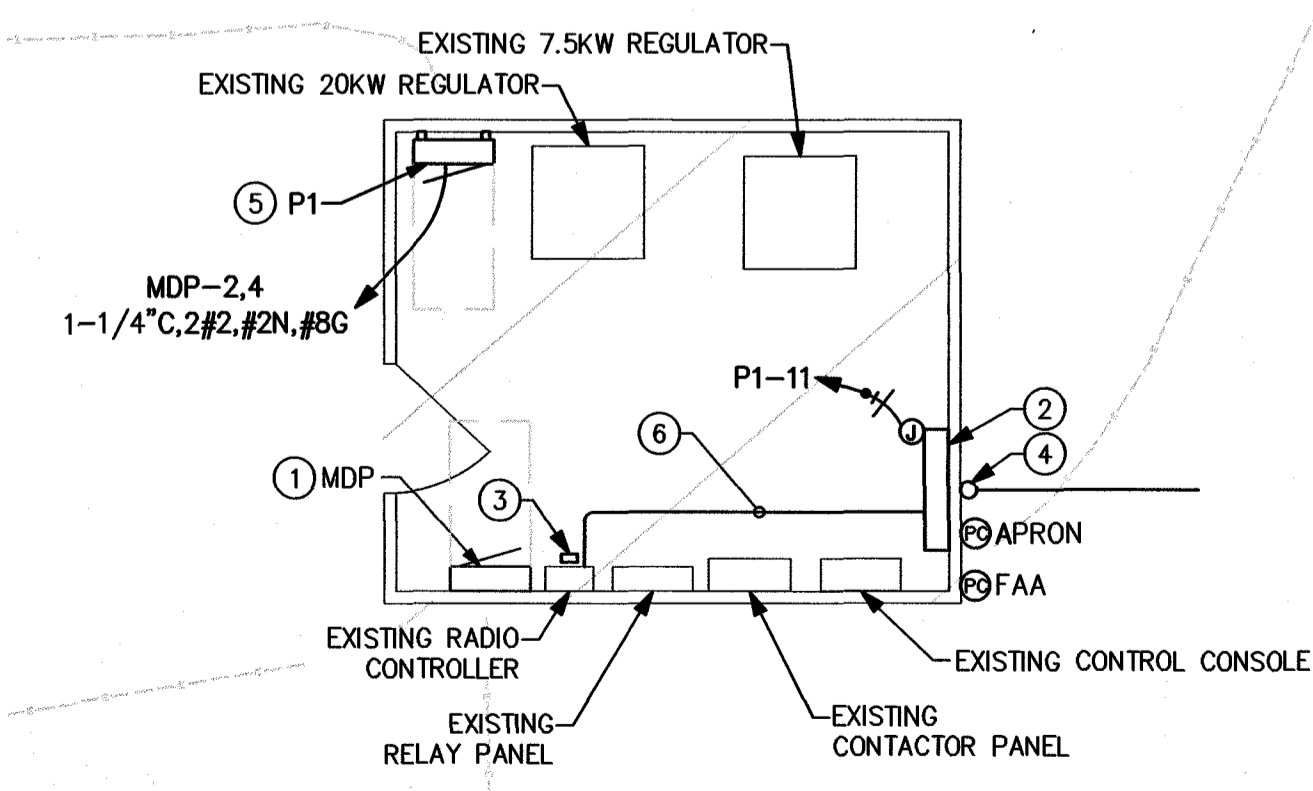
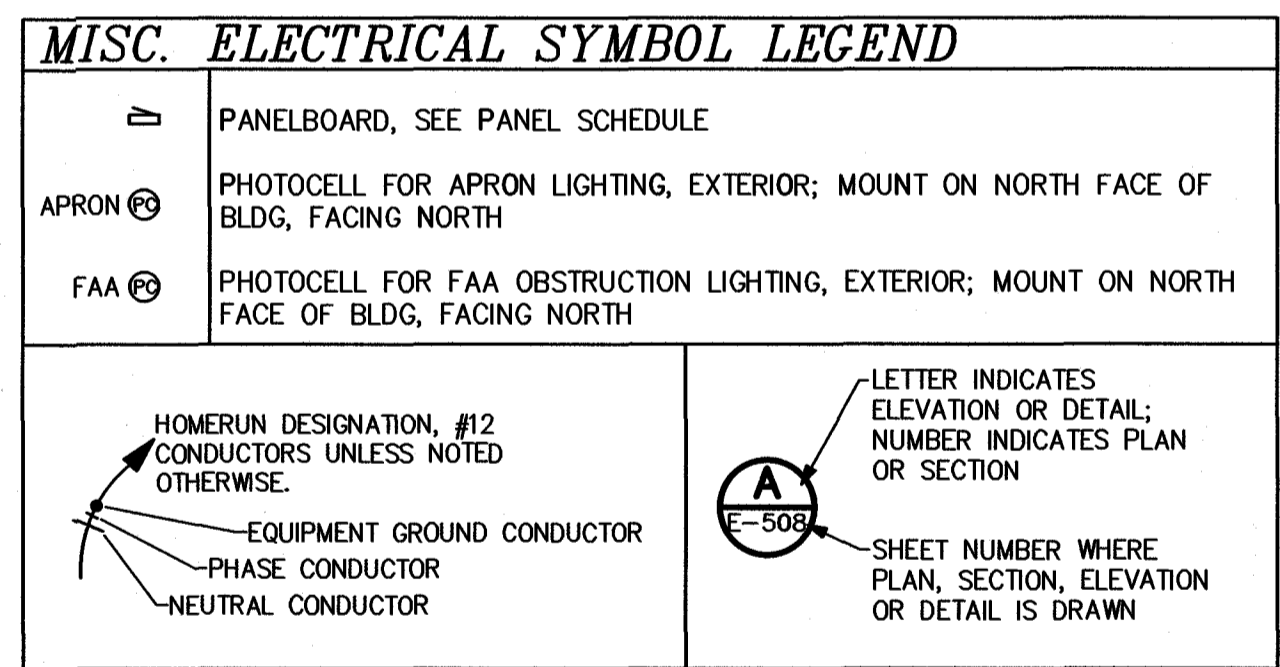
Date: DEC 2021
 Scale: NTS
 Drawn: JDL/RPD
 Checked: JDL/AMS
 Project No.: 2701-1802
 Sheet No.:

ELECTRICAL NOTES

- ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION.
- PERMITS FOR ELECTRICAL WORK SHALL BE OBTAINED BY AND PAID BY THE ELECTRICAL CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL PAY FOR ANY ADDITIONAL FEES FOR INSPECTIONS, TESTS, AND OTHER SERVICES AS REQUIRED FOR THE COMPLETION OF THE WORK.
- THE ELECTRICAL CONTRACTOR AND ANY OF HIS SUBCONTRACTORS SHALL VISIT THE PROJECT SITE TO WITNESS EXISTING CONDITIONS AND BECOME FAMILIAR WITH THE SCOPE OF THE WORK REQUIRED PRIOR TO SUBMITTING PROPOSALS. WORK REQUIRED BY EXISTING JOB CONDITIONS NOT INDICATED ON DRAWINGS SHALL BE INCLUDED IN THE PROPOSALS.
- THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO RESULT IN THE PRODUCTION OF A COMPLETE AND FUNCTIONAL ELECTRICAL SYSTEM. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL MATERIAL, LABOR, EQUIPMENT, AND OTHER SERVICES AS NECESSARY TO COMPLETE THE WORK.
- DISCREPANCIES IN THE DRAWINGS AND SPECIFICATIONS THAT WILL AFFECT THE WORK SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO SUBMITTING PROPOSALS.
- UNLESS NOTED OTHERWISE, ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND INCLUDE A 3RD PARTY LABEL (I.E.: UL, CSA, ETL, ETC.) LISTING APPROVAL FOR ITS INSTALLED APPLICATION.
- REVIEW PLANS OF OTHER TRADES FOR COORDINATION OF WORK AND FOR RELATED AND ADJOINING WORK.
- PENETRATIONS OF EXTERIOR BUILDING WALLS, FLOORS, OR ROOFS SHALL BE SEALED WATERTIGHT. INTERIORS OF RACEWAY PENETRATIONS THROUGH EXTERIOR WALLS SHALL BE SEALED WITH NON-HARDENING ELECTRICAL PUTTY.
- PROVIDE NATIONAL ELECTRICAL CODE REQUIRED CLEARANCES FOR ALL ELECTRICAL EQUIPMENT. COORDINATE RESOLUTION OF CONFLICTS WITH OTHER TRADES.
- WHERE WORKING IN EXISTING BUILDINGS, FACILITIES, OR STRUCTURES; PROTECT AND MAINTAIN IN OPERATION EXISTING ELECTRICAL SYSTEMS. IF SHUTDOWNS ARE REQUIRED, NOTIFY THE ENGINEER AND OWNER FOR COORDINATION WELL IN ADVANCE OF ANY SYSTEM SHUTDOWN. WHERE AN OUTAGE OF EXTENDED DURATION IS NOT ACCEPTABLE TO THE OWNER, PROVIDE TEMPORARY CONNECTIONS AS REQUIRED TO MAINTAIN SERVICE.
- WHERE WORKING IN EXISTING BUILDINGS, FACILITIES, OR STRUCTURES; WORK MAY BE REQUIRED TO BE PERFORMED WHILE REMAINING OCCUPIED BY OWNER STAFF. WORK SHALL BE COORDINATED WITH THE OWNER TO MINIMIZE DISRUPTION TO THE OWNER.
- SHARED NEUTRAL CONDUCTORS SHALL NOT BE USED UNLESS SPECIFICALLY INDICATED SO ON HOMERUN CIRCUITRY DESIGNATIONS.
- PANEL BREAKER CONFIGURATIONS SHALL BE INSTALLED AS NOTED. BREAKER POSITION REVISIONS WILL NOT BE ACCEPTED UNLESS APPROVED IN WRITING BY THE ENGINEER.
- LOAD CIRCUITS SHALL BE INSTALLED AS INDICATED ON THE DRAWINGS. CIRCUITRY REVISIONS WILL NOT BE ACCEPTED UNLESS APPROVED IN WRITING BY THE ENGINEER.

ABBREVIATIONS

AFB	ABOVE FINISHED FLOOR	AFG	ABOVE FINISHED GRADE
AIC	AMPS INTERRUPTING CAPABILITY	BKR	BREAKER
C	CONDUIT	C/B	CIRCUIT BREAKER
CLG	CEILING	CKT	CIRCUIT
CU	COPPER	DIA	DIAMETER
DWG	DRAWING	EC	ELECTRICAL CONTRACTOR
EMT	ELECTRICAL METALLIC TUBING	ENCL	ENCLOSED
EXSTG	EXISTING	G	EQUIPMENT GROUND
GE	GROUNDING ELECTRODE CONDUCTOR	K	KILO (THOUSAND)
LED	LIGHT EMITTING DIODE	LTC	LIGHTING
LTS	LIGHTS	MCB	MAIN CIRCUIT BREAKER
MDP	MAIN DISTRIBUTION PANEL	MFR	MANUFACTURER
N/A	NOT APPLICABLE	NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOC.	NTS	NOT TO SCALE
P	PHASE OR POLE	PH	PHASE
PNL	PANEL	PVC	POLYVINYL CHLORIDE
REQ.	REQUIRED	RGC	RIGID GALVANIZED CONDUIT
RGS	RIGID GALVANIZED STEEL	S.S.	STAINLESS STEEL
SYS	SYSTEM	S/N	SOLID NEUTRAL
TYP	TYPICAL	UL	UNDERWRITERS LABORATORY
UNO	UNLESS NOTED OTHERWISE	UON	UNLESS OTHERWISE NOTED
V	VOLTS	VA	VOLT-AMPS
W	WATTS	W	WIRE
W/	WITH	WP	WEATHERPROOF



1 ELECTRICAL ENLARGED VAULT PLAN
SCALE: 1/4" = 1'-0"
GRAPHIC SCALE: 1/2" = 1'-0"

- KEYED NOTES:**
- EXISTING PANEL MDP, SEE PANEL SCHEDULE FOR NEW BREAKER.
 - INSTALL NEW APRON LIGHTING CONTROL PANEL.
 - MOUNT JBOX FOR OBSTRUCTION LIGHTING HOME RUN UNDER EXISTING RADIO CONTROLLER
 - 1-1/4" FROM HANDHOLE, STUB CONDUIT UP BUILDING WALL TO LB CONNECTOR, PENETRATE THROUGH BUILDING WALL TO BELOW NEW APRON LIGHTING CONTROL PANEL. CONTINUE CONDUIT TO APRON LIGHTING CONTROL PANEL:
2#B (P1-1,3) APRON LIGHTING POLE S1
2#10 (P1-5,7) APRON LIGHTING POLE S2
2#10 (P1-2,4) APRON LIGHTING POLE S3
2#10 (P1-6,8) APRON LIGHTING POLE S4
2#B (P1-10,12) APRON LIGHTING POLE S5
1#12, #12N (P1-9) OBSTRUCTION LIGHTING #8G
 - INSTALL PANEL IN LOCATION INDICATED AND UTILIZE UNISTRUT TO SPAN EXISTING VERTICAL RACEWAY IN LOCATION. SEE DETAIL E/E4.
- 3/4" C, 2#12, #12G - RADIO CONTROL CIRCUITRY

MDP EXISTING PANEL

ROOM: EXISTING VAULT VOLTS: 240/120V 2P 3W AIC: 10,000
MOUNTING: SURFACE BUS AMPS: 225 MAIN BKR: 225
FED FROM: UTILITY NEUTRAL: 100% LUGS: STANDARD
NOTE: EXISTING GE A SERIES II

CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA		CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA	
			A	B				A	B
1	-/1	SPACE ONLY			2	100/2	(*) PANEL P1	4.79	
3	-/1	SPACE ONLY	0	0	4				4.89
5	-/1	SPACE ONLY			6	-/1	SPACE ONLY	0	0
7	-/1	SPACE ONLY	0	0	8	-/1	SPACE ONLY	0	0
9	-/1	SPACE ONLY	0	0	10	-/1	SPACE ONLY	0	1
11	-/1	SPACE ONLY			12	20/1	EXISTING GATE POWER	0.5	
13	20/2	EXISTING REILS R/W 5	0.2		14	20/1	EXISTING REC		1.4
15				0.2	16	20/1	EXISTING A/C	0.4	
17	20/1	EXISTING RADIO	0.5		18	20/2	EXISTING PAPI R/W 5		0.4
19	30/1	EXISTING BEACON		2.9	20				0.4
21	15/1	EXISTING WINDCONE	0.6		22	20/2	EXISTING PAPI R/W 23	0.4	
23	20/1	EXISTING VAULT LTG		0.15	24				0.4
25	20/1	EXISTING REC	0.1		26	20/1	EXISTING REC	0.5	
27	20/2	EXISTING REILS R/W 23		0.2	28	50/2	EXISTING REGULATOR		3
29			0.2		30			3	
31	-/1	UNUSABLE SPACE		0	32	-/1	UNUSABLE SPACE		0
33	-/1	UNUSABLE SPACE	0		34	125/2	EXISTING TAXIWAY REGULATOR (LOCATED AS SUBFEED C/B)	8	
35	-/1	UNUSABLE SPACE		0	36				8
TOTAL CONNECTED KVA BY PHASE								19.2	22.5
TOTAL CONNECTED AMPS BY PHASE								160	188

	CONN KVA	CALC KVA		CONN KVA	CALC KVA
LIGHTING	12.4	15.4	(125%)	RECEPTACLES	1.98
LARGEST MOTOR	1.4	0.35	(25%)	CONTINUOUS	3
MOTORS	2.4	2.4	(100%)	NONCONTINUOUS	22
				TOTAL LOAD	45.9
				BALANCED AMPS	191

(* PROVIDE NEW C/B INDICATED)

P1

ROOM: EXISTING VAULT VOLTS: 240/120V 2P 3W AIC: 10,000
MOUNTING: SURFACE BUS AMPS: 100 MAIN BKR: MLO
FED FROM: MDP NEUTRAL: 100% LUGS: STANDARD
NOTE:

CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA		CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA	
			A	B				A	B
1	20/2	APRON LTG	1.15		2	20/2	APRON LTG	0.863	
3				1.15	4				0.863
5	20/2	APRON LTG	0.863		6	20/2	APRON LTG	0.863	
7				0.863	8				0.863
9	20/1	OBSTRUCTION LTG	0.1		10	20/2	APRON LTG	0.952	
11	20/1	APRON LIGHTING CONTROL		0.2	12				0.952
13	20/1	SPARE	0		14	20/1	SPARE	0	
15	20/1	SPARE	0		16	20/1	SPARE	0	
17	20/1	SPARE	0		18	20/1	SPARE	0	
19	20/1	SPARE	0		20	20/1	SPARE	0	
21	20/1	SPARE	0		22	20/1	SPARE	0	
23	20/1	SPARE	0		24	20/1	SPARE	0	
25	20/1	SPARE	0		26	20/1	SPARE	0	
27	20/1	SPARE	0		28	20/1	SPARE	0	
29	20/1	SPARE	0		30	20/1	SPARE	0	
31	20/1	SPARE	0		32	20/1	SPARE	0	
33	20/1	SPARE	0		34	20/1	SPARE	0	
35	20/1	SPARE	0		36	20/1	SPARE	0	
37	20/1	SPARE	0		38	20/1	SPARE	0	
39	20/1	SPARE	0		40	20/1	SPARE	0	
41	20/1	SPARE	0		42	20/1	SPARE	0	
TOTAL CONNECTED KVA BY PHASE								4.79	4.89
TOTAL CONNECTED AMPS BY PHASE								39.9	40.8

	CONN KVA	CALC KVA		CONN KVA	CALC KVA
LIGHTING	9.3	11.6	(125%)	TOTAL LOAD	12
RECEPTACLES	0.38	0.38	(50%>10)	BALANCED AMPS	50

OUTLET LEGEND

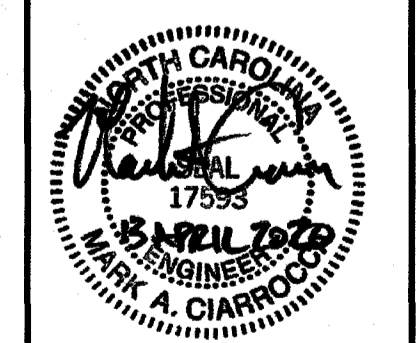
SYMBOL	VOLTS	DESCRIPTION
⊙	120V 1P 2W	120V CONTROL CIRCUIT POWER FOR APRON LIGHTING CONTROL PANEL

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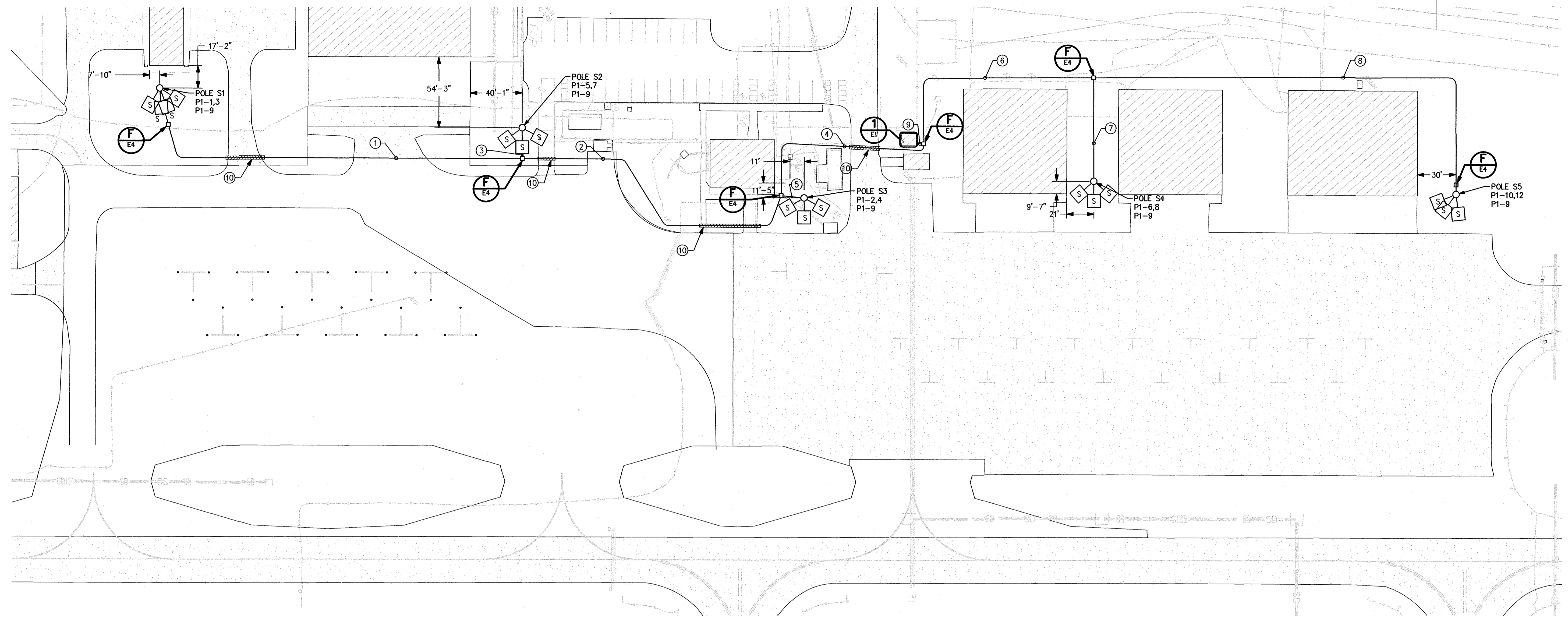
HARNETT REGIONAL JETPORT
HARNETT COUNTY, NORTH CAROLINA
APRON EXPANSION
ELECTRICAL
NOTES, LEGEND, SCHEDULES, VAULT PLAN



Date: OCT 2019
Scale: AS NOTED
Drawn: MPS
Checked: MAC
Project No.: 2701-1802

Sheet No. **E1**

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JOB # 19047



1 ELECTRICAL PLAN
 SCALE: 1" = 40'
 PLAN NORTH TRUE NORTH GRAPHIC SCALE: 1"=40'
 0 20 40 80

- KEYED NOTES:**
- ① 1" C UNDERGROUND:
 2#8 (P1-1,3) APRON LIGHTING POLE S1
 1#12, #12N (P1-9) OBSTRUCTION LIGHTING
 #8G
 - ② 1" C UNDERGROUND:
 2#8 (P1-1,3) APRON LIGHTING POLE S1
 2#10 (P1-5,7) APRON LIGHTING POLE S2
 1#12, #12N (P1-9) OBSTRUCTION LIGHTING
 #8G
 - ③ 1" C UNDERGROUND:
 2#10 (P1-5,7) APRON LIGHTING POLE S2
 1#12, #12N (P1-9) OBSTRUCTION LIGHTING
 #8G
 - ④ 1" C UNDERGROUND:
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 1#12, #12N (P1-9) OBSTRUCTION LIGHTING
 #8G
 - ⑤ 1" C UNDERGROUND:
 2#10 (P1-2,4) APRON LIGHTING POLE S3
 1#12, #12N (P1-9) OBSTRUCTION LIGHTING
 #8G
 - ⑥ 1" C UNDERGROUND:
 2#10 (P1-6,8) APRON LIGHTING POLE S4
 2#8 (P1-10,12) APRON LIGHTING POLE S5
 1#12, #12N (P1-9) OBSTRUCTION LIGHTING
 #8G
 - ⑦ 1" C UNDERGROUND:
 2#10 (P1-6,8) APRON LIGHTING POLE S4
 1#12, #12N (P1-9) OBSTRUCTION LIGHTING
 #8G
 - ⑧ 1" C UNDERGROUND:
 2#8 (P1-10,12) APRON LIGHTING POLE S5
 1#12, #12N (P1-9) OBSTRUCTION LIGHTING
 #8G
 - ⑨ 1-1/4" C BETWEEN HANDHOLE & NEW APRON LIGHTING CONTROL PANEL IN VAULT:
 2#8 (P1-1,3) APRON LIGHTING POLE S1
 2#10 (P1-5,7) APRON LIGHTING POLE S2
 2#10 (P1-2,4) APRON LIGHTING POLE S3
 2#10 (P1-6,8) APRON LIGHTING POLE S4
 2#8 (P1-10,12) APRON LIGHTING POLE S5
 1#12, #12N (P1-9) OBSTRUCTION LIGHTING
 #8G
 - ⑩ DIRECTIONALLY BORE UNDER EXISTING ROADWAY.

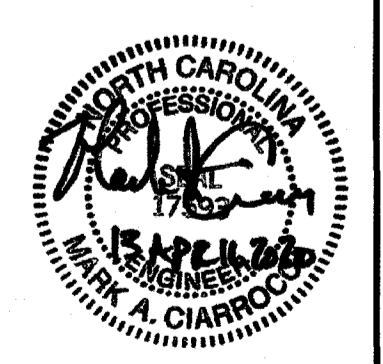
LUMINAIRE SCHEDULE								
CALLOUT	SYMBOL	DESCRIPTION	LAMP	BALLAST	VOLTS	MOUNTING	MANUFACTURER / MODEL	NOTES
S		APRON LIGHT	(1) 555W LED	LED DRIVER	240V 2P 2W	POLE; 40' POLE	MCGRAW-EDISON #GLEON SERIES BEACON #MATRIX SERIES PRE-APPROVED EQUIVALENT	65,000 NOMINAL LUMENS. 5000K COLOR TEMPERATURE. POLES SHALL INCLUDE CLIMBING STEPS AND FALL RESTRAINT CABLE SYSTEM, BULLHORN BRACKET, MOUNTING BRACKETS, AND OBSTRUCTION LIGHTS. FIXTURE TILT SHALL BE 10 DEGREES FROM HORIZONTAL. FUSE FIXTURES INDIVIDUALLY AT POLE BOTTOMS.

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REV. NO.	DESCRIPTION	DATE

HARNETT REGIONAL AIRPORT
 HARNETT COUNTY, NORTH CAROLINA
APRON EXPANSION
 ELECTRICAL
 PLAN; LUMINAIRE SCHEDULE



Date: OCT 2019
 Scale: AS NOTED
 Drawn: MPS
 Checked: MAC
 Project No: 2701-1802

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Sheet No.
E2

APRON LIGHTING CONTROL SCHEME

DAYLIGHT CONDITIONS

SELECTOR SWITCH POSITION:

- "OFF": LIGHTS REMAIN OFF.
- "ON": LIGHTS OPERATE. THIS IS INTENDED FOR MANUAL TESTING AND TROUBLESHOOTING PURPOSES ONLY.
- "AUTO": THE PHOTOCELL PREVENTS APRON LIGHTS FROM OPERATING.

NIGHT CONDITIONS

SELECTOR SWITCH POSITION:

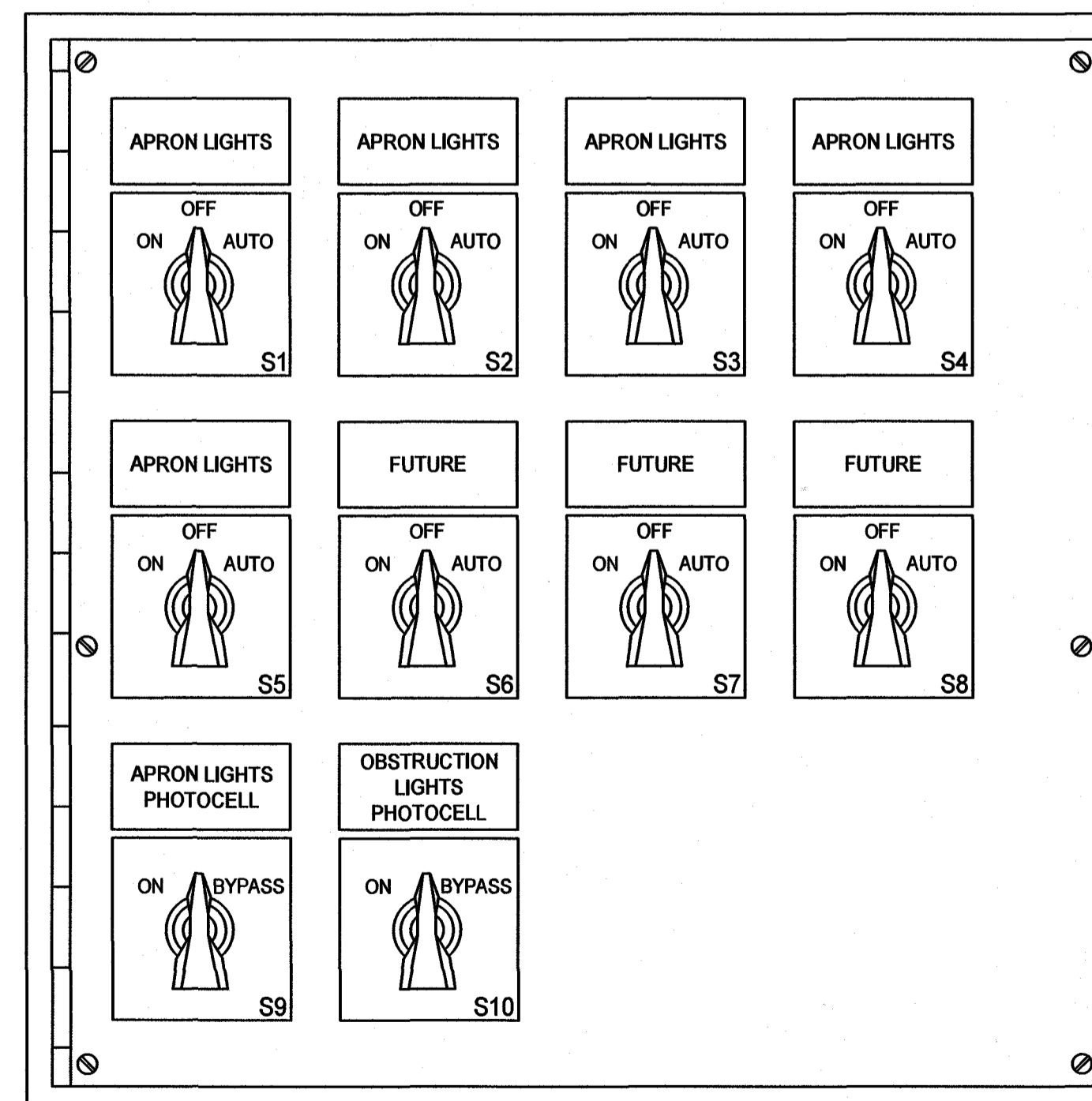
- "OFF": LIGHTS REMAIN OFF.
- "ON": LIGHTS OPERATE.
- "AUTO": PHOTOCELL TURNS LIGHT ON AT DUSK. LIGHTS WILL TURN OFF VIA TIMECLOCK AT A PRESELECTED TIME TO PREVENT OPERATION ALL NIGHT. IF PILOT RADIO CONTROL ACTIVATES RUNWAY/TAXIWAY LIGHTING, APRON LIGHTS WILL OPERATE ALSO UNTIL RADIO BASED CONTROL TIMES OUT.

PHOTOCELL BYPASS SWITCHES:

- THESE ARE INTENDED FOR MANUAL TESTING AND TROUBLESHOOTING PURPOSES ONLY. THEY ARE NOT INTENDED TO BE LEFT IN BYPASS POSITION.

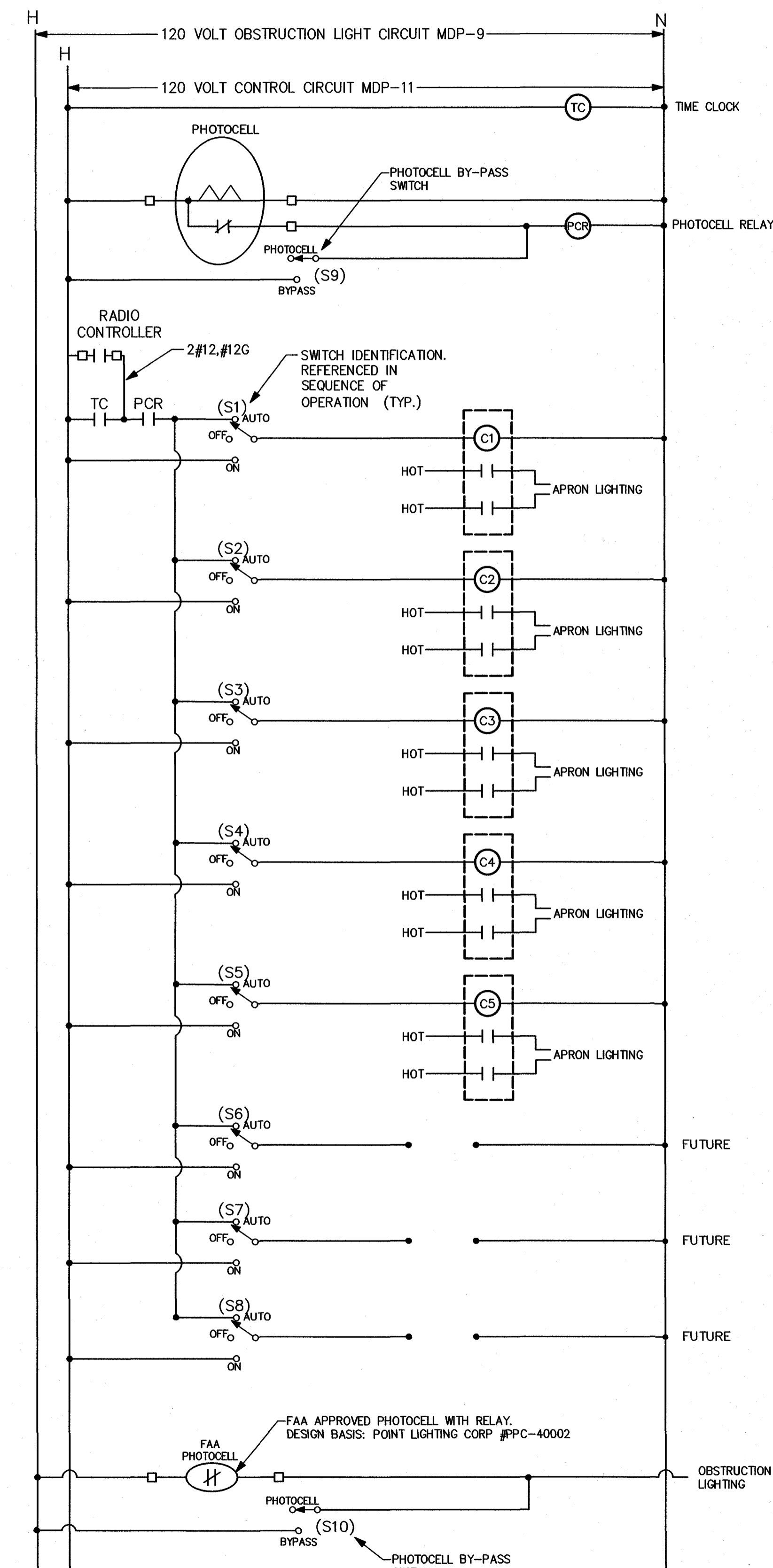
CONTROL WIRING DIAGRAM SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	PHOTOCELL; CONTACT NORMALLY CLOSED AT NIGHT.
	TIME CLOCK
	PHOTOCELL RELAY
	LIGHTING CONTACTOR, 2-POLE 30A WITH 120V OPERATING COIL.
S1 THRU S8	ROTARY SELECTOR SWITCH, 3 POSITION MAINTAINED CONTACT, RATED 10 AMPS @ 125 VOLTS, SCREW TERMINALS.
S9, S10	ROTARY SELECTOR SWITCH, 2 POSITION MAINTAINED CONTACT, RATED 10 AMPS @ 125 VOLTS, SCREW TERMINALS.

A APRON LIGHTING CONTROL PANEL LEGEND
SCALE: N/A



ENCLOSURE NOTE:
SIZE APRON LIGHTING CONTROL PANEL ENCLOSURE TO ACCOMMODATE (5) 2-POLE CONTACTORS FOR APRON LIGHTING AND (3) FUTURE 2-POLE CONTACTORS.

B APRON LIGHTING CONTROL PANEL
SCALE: NO SCALE



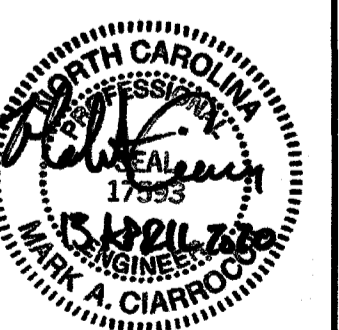
C SCHEMATIC FOR APRON LIGHTING CONTROL PANEL
SCALE: NO SCALE

TALBERT & BRIGHT
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REV. NO.	DESCRIPTION	DATE

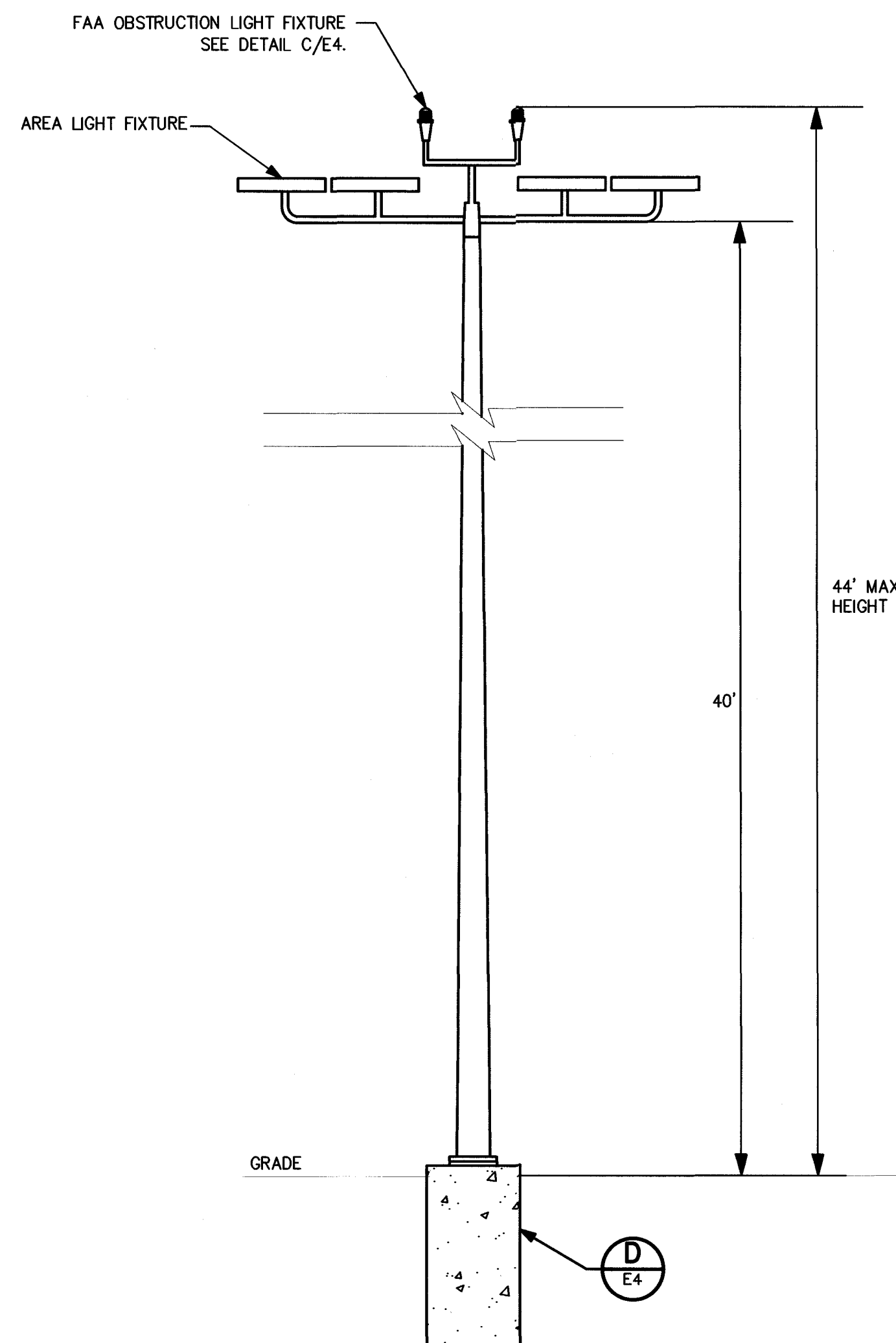
HARNETT REGIONAL AIRPORT
HARNETT COUNTY, NORTH CAROLINA
APRON EXPANSION
ELECTRICAL DETAILS



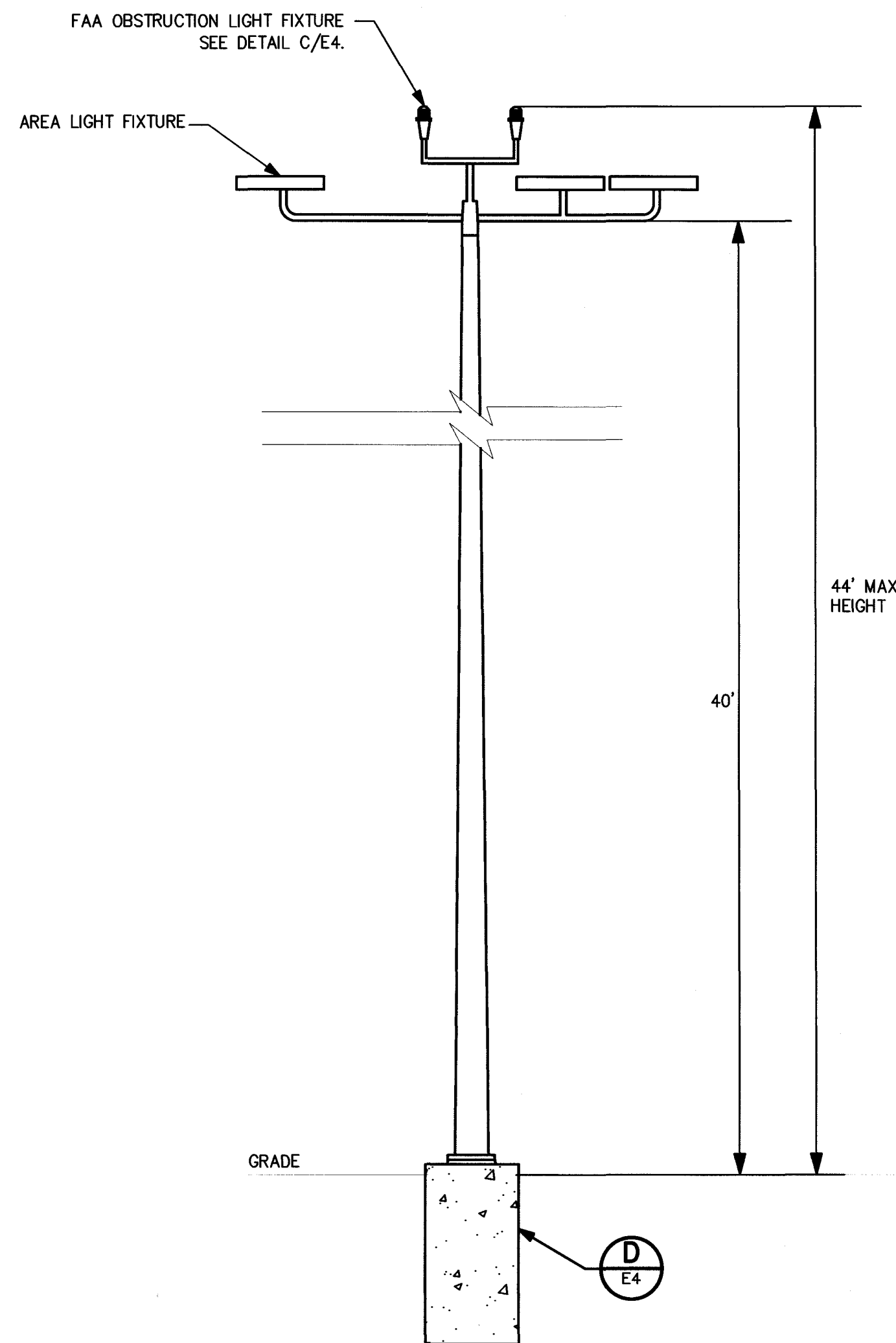
Date	OCT 2019
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Drawn	MPS
Checked	MAC
Project No.	2701-1802

Sheet No.
E3

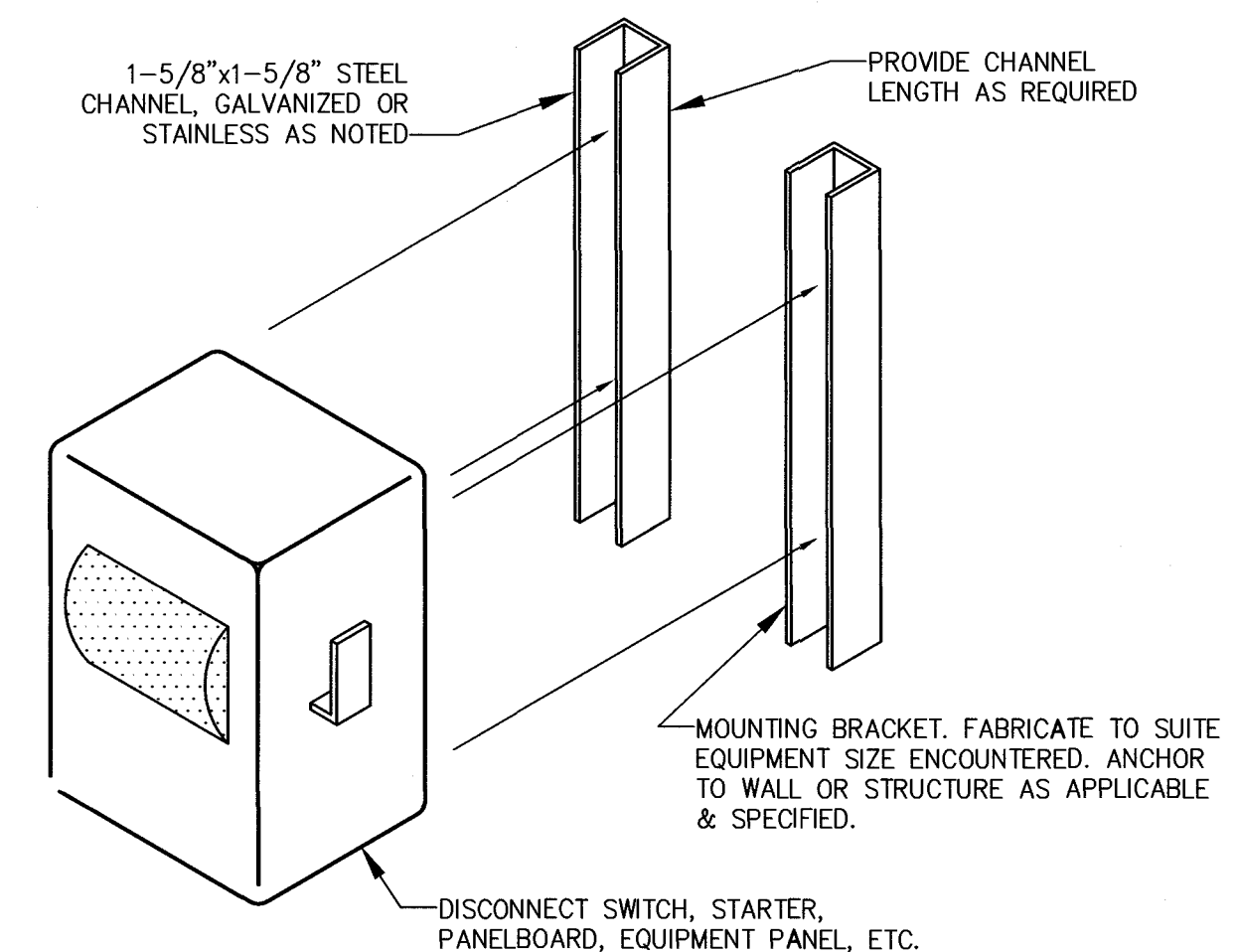
CREATHAM & ASSOCIATES, PA
CONSULTING ENGINEERS
3412 ENTERPRISE DRIVE
WILMINGTON, NORTH CAROLINA
28405-4210
OFFICE: 910-763-5350
WWW.CREATHAMP.COM
NC LICENSE # C-1073
JOB # 19047



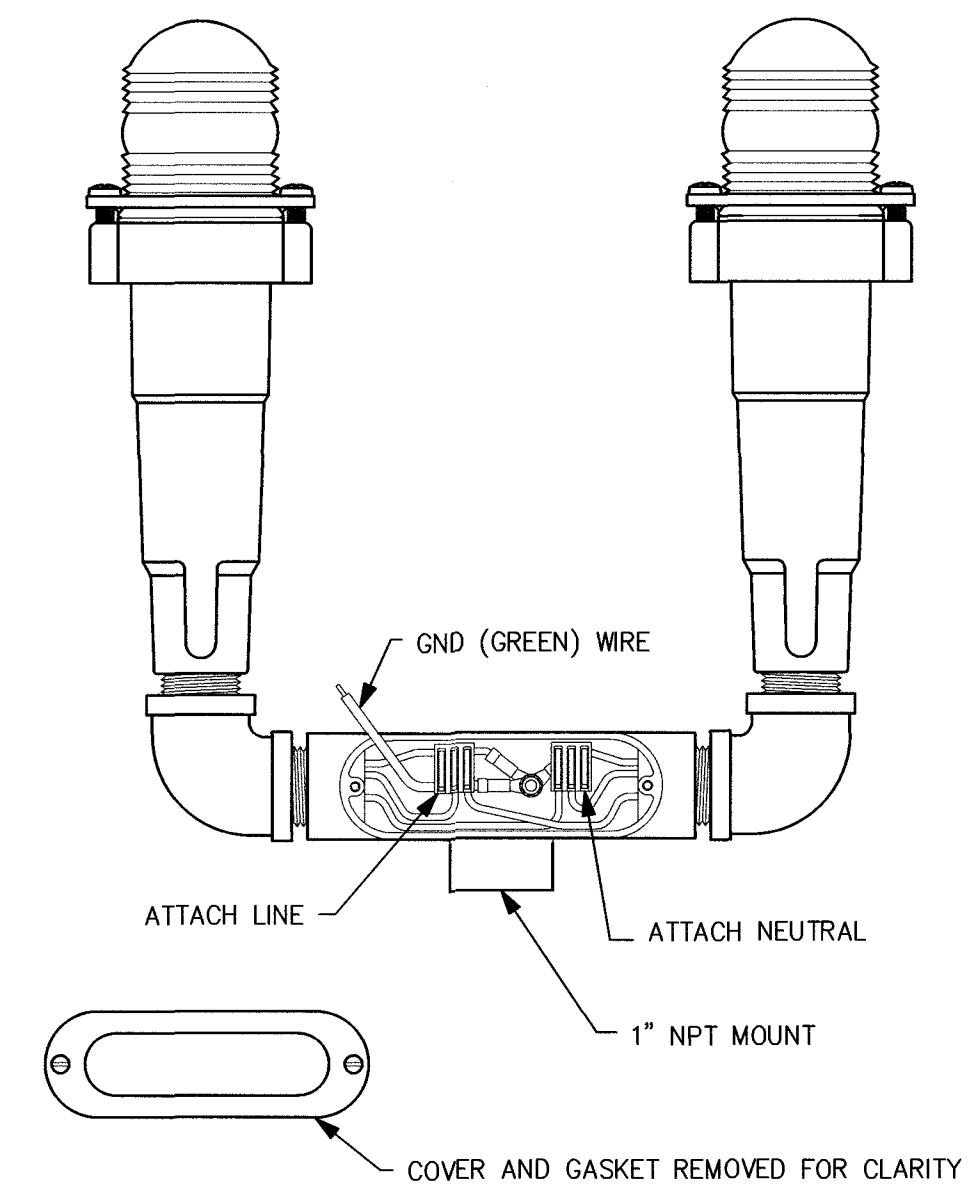
A
E4
AREA LIGHT FIXTURE DETAIL - POLE S1
SCALE: N/A



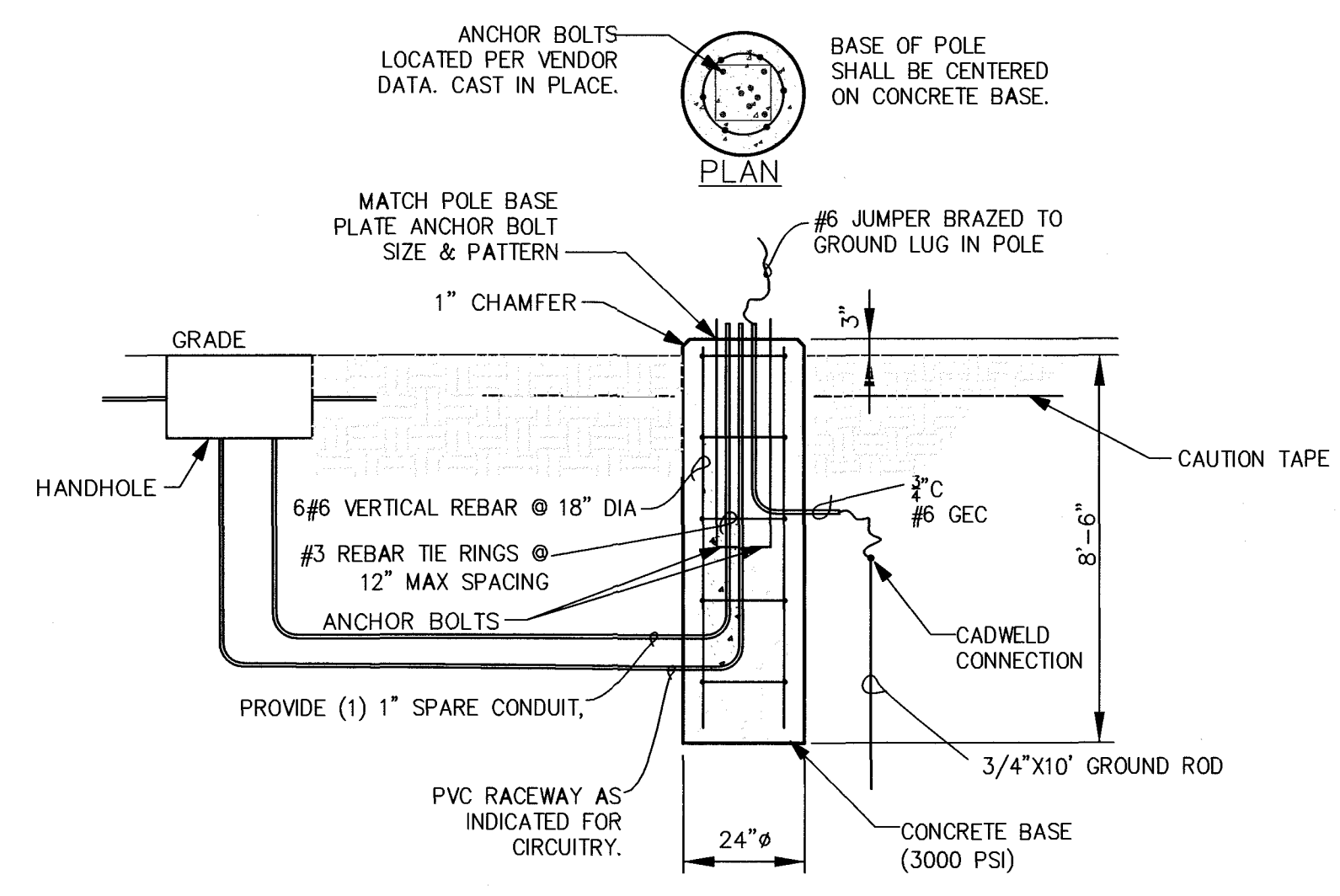
B
E4
AREA LIGHT FIXTURE DETAIL -
POLES S2, S3, S4, S5
SCALE: N/A



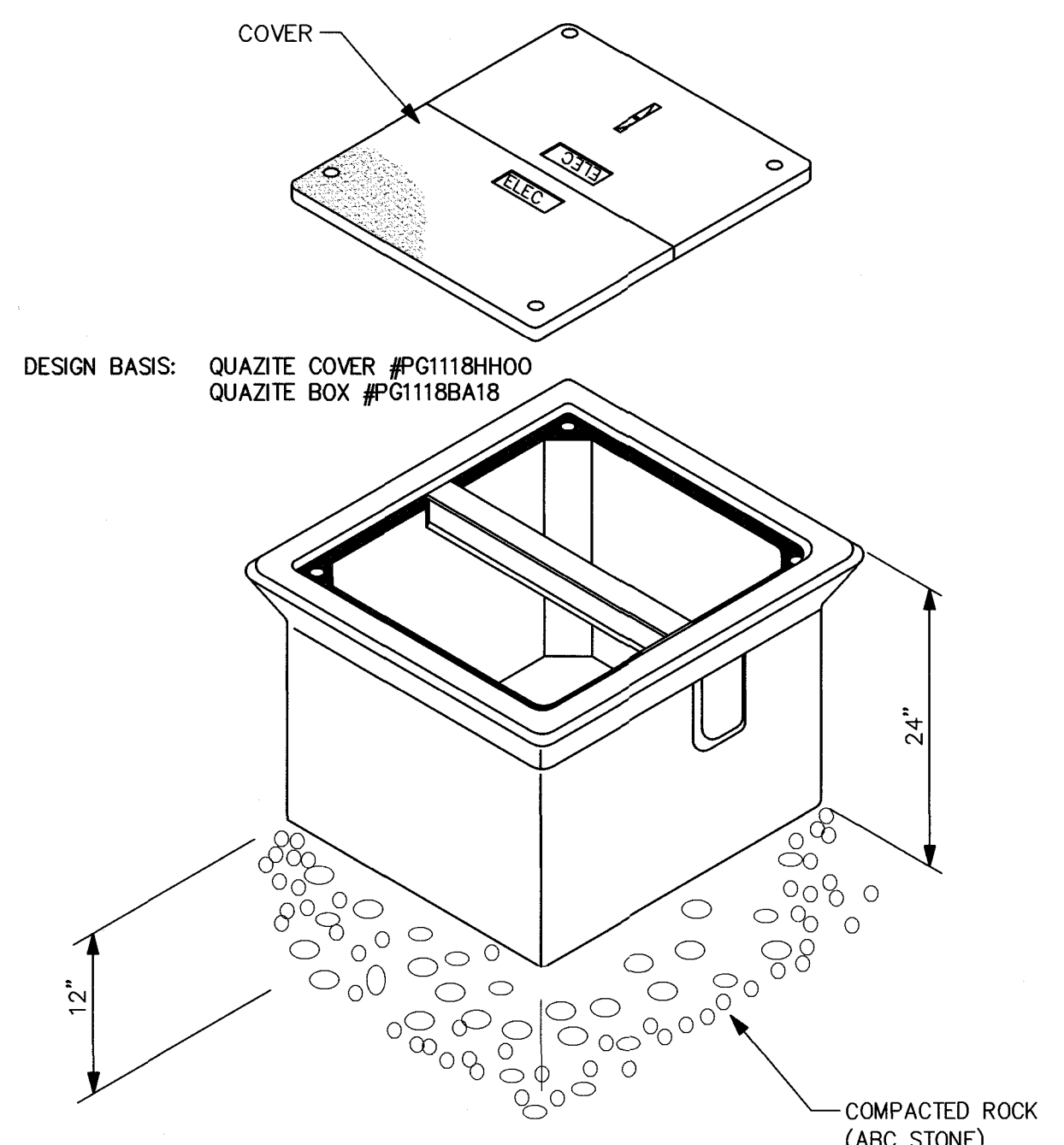
E
E4
EQUIPMENT MOUNTING DETAIL
NO SCALE



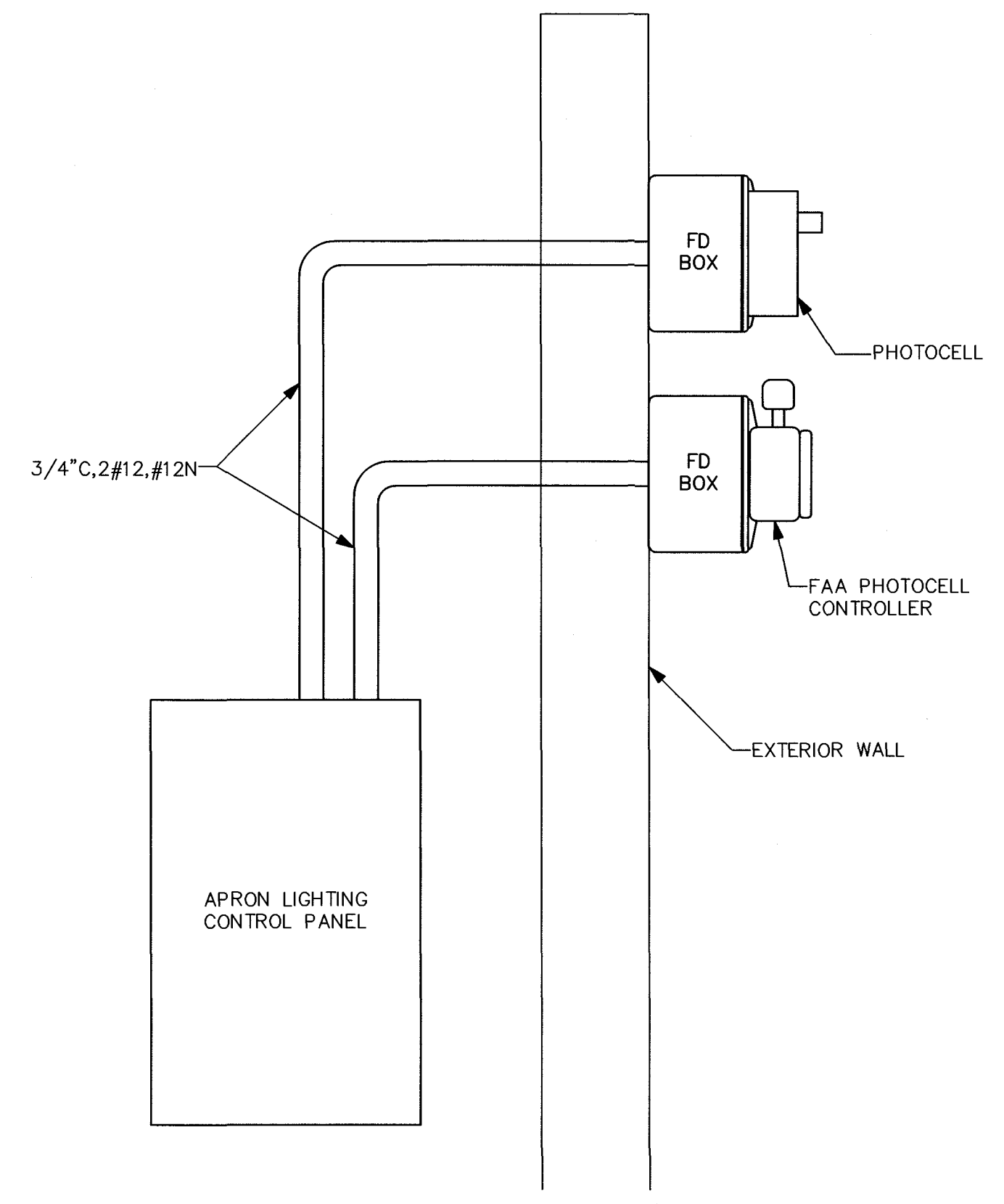
C
E4
DUAL L-810 LED OBSTRUCTION LIGHT
NO SCALE



D
E4
POLE BASE DETAIL, AREA LIGHT
NO SCALE



F
E4
TYPICAL HANDHOLE DETAIL
NO SCALE



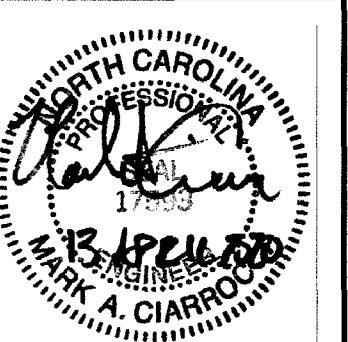
G
E4
OBSTRUCTION LIGHTING AND APRON
LIGHTING PHOTOCELL MOUNTING DETAIL
NO SCALE

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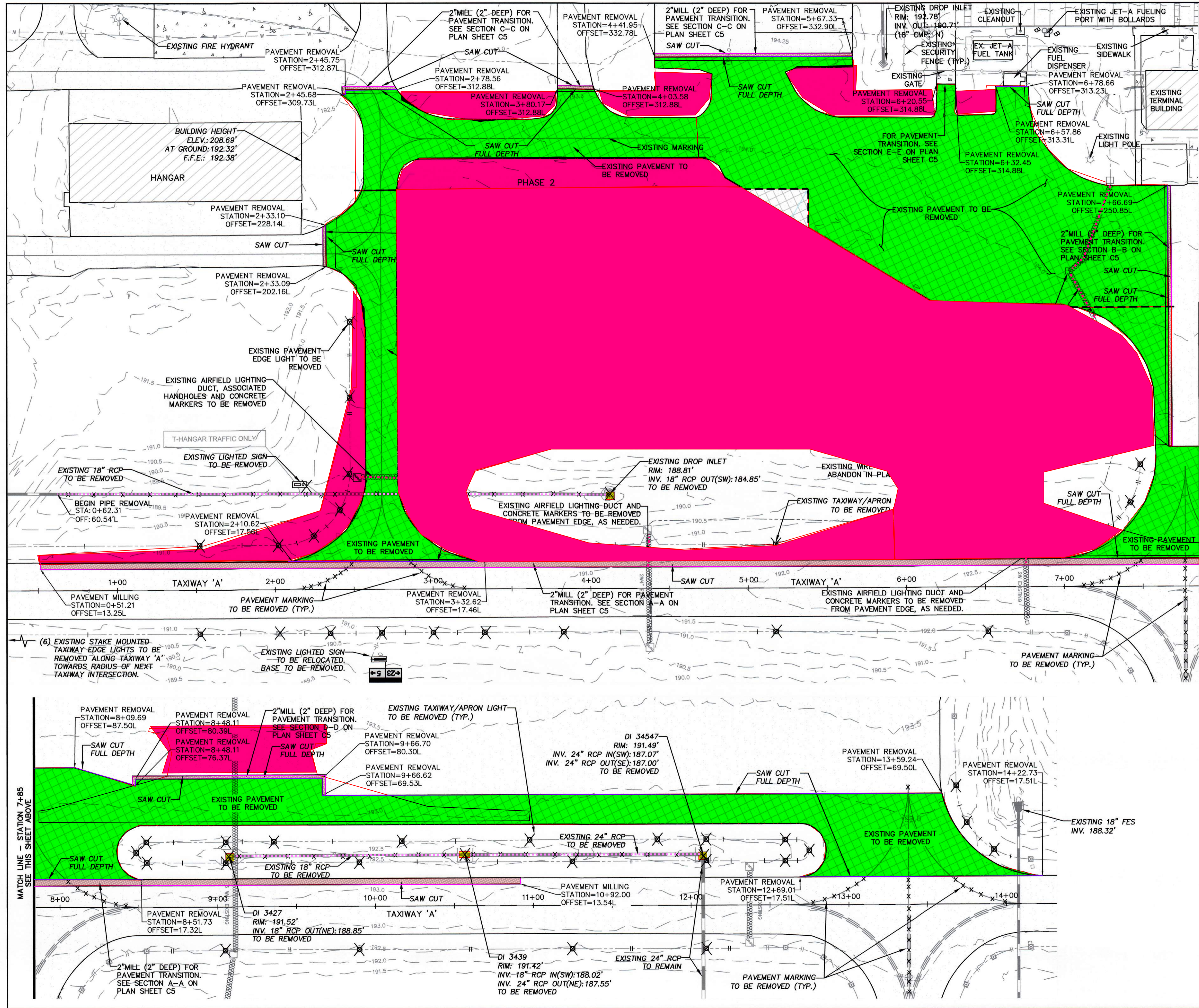
HARNETT REGIONAL JETPORT
HARNETT COUNTY, NORTH CAROLINA
APRON EXPANSION
ELECTRICAL
DETAILS



Date: OCT 2019
Scale: AS NOTED
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Checked: MAC
Project No.: 2701-1802

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JOB # 19047

Sheet No.
E4



LEGEND

- EXISTING CONCRETE PAVEMENT
- EXISTING BITUMINOUS PAVEMENT
- PAVEMENT TO BE REMOVED (FULL DEPTH)
- PAVEMENT TO BE MILLED (2" DEPTH)
- 195.0 EXISTING CONTOUR
- EXISTING STORM DRAIN PIPE
- EXISTING FENCE
- EXISTING SANITARY SEWER LINE
- EXISTING STRUCTURE
- EXISTING STORM DRAIN PIPE TO BE REMOVED
- EXISTING TAXIWAY EDGE LIGHT
- EXISTING TAXIWAY EDGE LIGHT TO BE REMOVED
- EXISTING LIGHTED SIGN
- EXISTING HANDHOLE

- ### GENERAL NOTES:
- CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING IN THE VICINITY OF EXISTING UNDERGROUND CABLES. THERE ARE EXISTING UTILITIES WITHIN THE WORK AREA INCLUDING UNDERGROUND POWER, TELEPHONE, WATERLINE UTILITIES, ETC. PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR SHALL HAVE ALL UTILITIES WITHIN THE WORK AREA LOCATED. ANY DAMAGE CAUSED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
 - CONTRACTOR SHALL UTILIZE CAUTION WHEN WORKING ADJACENT TO EXISTING HANGARS AND PAVEMENT. ANY DAMAGE CAUSED BY THE CONTRACTOR TO THE EXISTING BUILDINGS OR PAVEMENT TO REMAIN SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER.
 - EXISTING BITUMINOUS PAVEMENT SHOWN SHALL BE REMOVED WHERE DEPICTED ON THE PLANS. DEMOLITION SHALL INCLUDE FULL DEPTH REMOVAL OF THE BITUMINOUS PAVEMENT AND BASE COURSE. ALL COSTS INCLUDED WITH REMOVAL OF THE EXISTING BITUMINOUS PAVEMENT AND OFFSITE DISPOSAL OF ALL PAVEMENT SECTION MATERIALS SHALL BE INCLUDED IN THE PER SQUARE YARD COST FOR "BITUMINOUS PAVEMENT REMOVAL".
 - CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING IN THE VICINITY OF AN ACTIVE TAXIWAY. WHEN WORKING WITHIN THE ACTIVE TAXIWAY OBJECT FREE AREA, CONTRACTOR MUST COORDINATE WITH THE AIRPORT TO ACTIVATE THE PROPER NOTAMS. ADDITIONALLY, CONTRACTOR MUST ENSURE FIVE-FOOT CLEARANCE IS MAINTAINED BETWEEN EQUIPMENT AND MATERIALS AND ANY PART OF AN AIRCRAFT (INCLUDING WINGTIP OVERHANG). IF SUCH CLEARANCE CAN ONLY BE MAINTAINED IF AN AIRCRAFT DOES NOT HAVE FULL USE OF THE ENTIRE TAXIWAY WIDTH, THEN IT WILL BE NECESSARY TO MOVE PERSONNEL AND EQUIPMENT FOR THE PASSAGE OF THAT AIRCRAFT. FLAGGERS MUST BE FURNISHED BY THE CONTRACTOR TO DIRECT AND CONTROL CONSTRUCTION EQUIPMENT AND PERSONNEL TO A PRE-ESTABLISHED SETBACK DISTANCE OUTSIDE OF THE TOFA FOR THE SAFE PASSAGE OF AIRCRAFT. AIRCRAFT WILL ALWAYS HAVE THE RIGHT OF WAY.
 - DURING DEMOLITION OF THE TAXIWAY WITHIN THE ACTIVE TAXIWAY OBJECT FREE AREA, ANY EXCAVATION, DROPOFF OF PAVEMENT, ETC. MUST BE BACKFILLED OR COVERED AS SOON AS PRACTICABLE TO EXTENT NECESSARY TO HANDLE THE WEIGHT OF THE HEAVIEST AIRCRAFT OPERATING ON THE TAXIWAY ACROSS THE TRENCH/DROPOFF WITHOUT DAMAGE TO THE AIRCRAFT.

MATCH LINE - STATION 7+85
SEE THIS SHEET BELOW

MATCH LINE - STATION 7+85
SEE THIS SHEET ABOVE

TALBERT & BRIGHT

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REV. NO.	DESCRIPTION	DATE

HARNETT REGIONAL AIRPORT
HARNETT COUNTY, NORTH CAROLINA

APRON EXPANSION SCHEDULE 1 (CONCRETE)

DEMOLITION AND REMOVAL PLAN

Date: MAR 2020

Scale: 1" = 30'

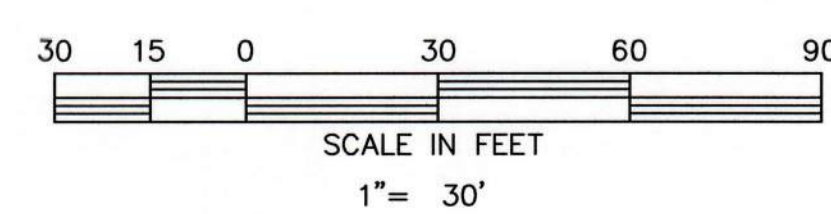
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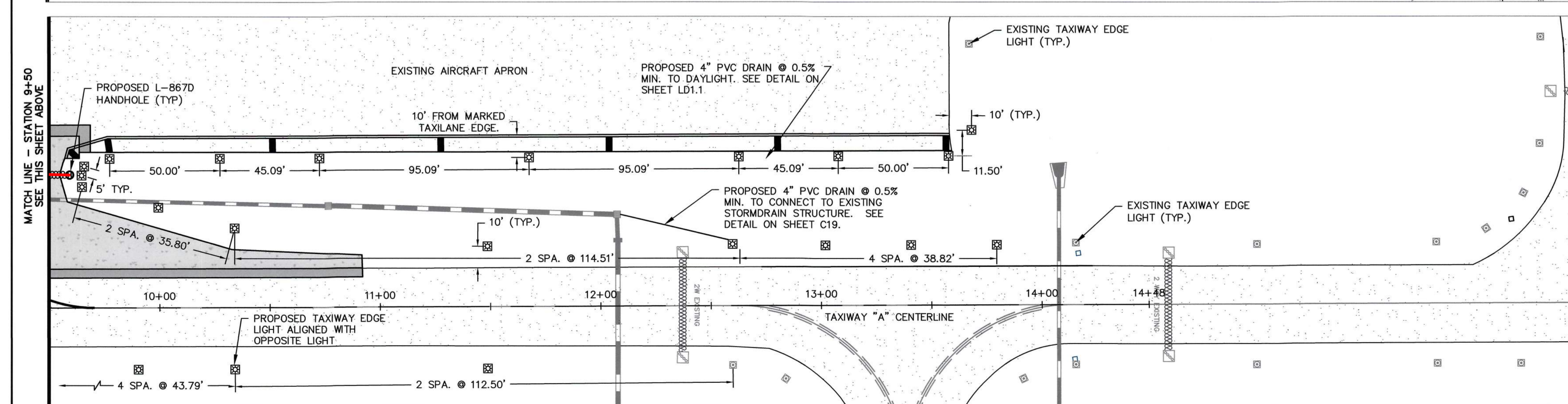
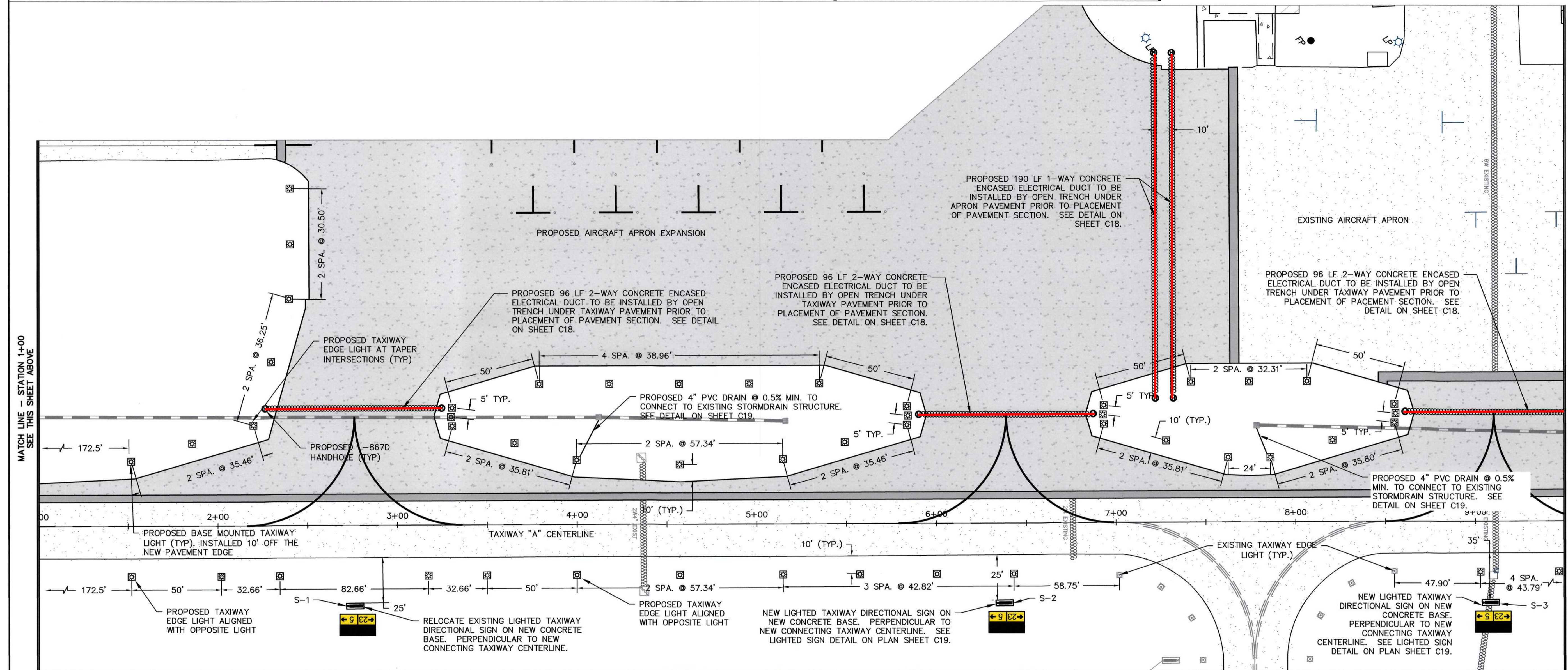
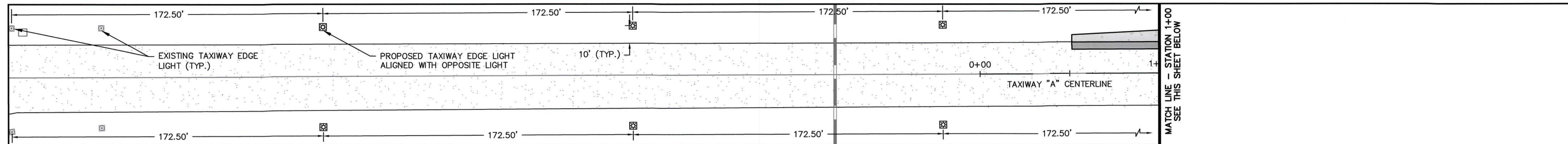
Checked: JDL/AMS

Project No.: 2701-1802

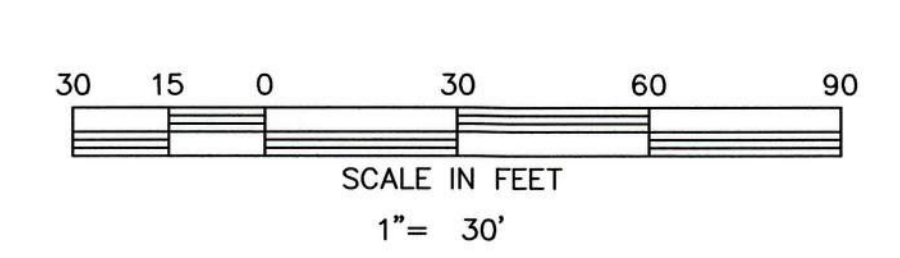
Sheet No.:

C1





LEGEND	
	PROPOSED BITUMINOUS PAVEMENT
	PROPOSED CONCRETE PAVEMENT
	EXISTING CONCRETE PAVEMENT
	EXISTING BITUMINOUS PAVEMENT
	PROPOSED BASE MOUNTED TAXIWAY EDGE LIGHT
	EXISTING DUCT
	EXISTING TAXIWAY EDGE LIGHT
	PROPOSED HANDHOLE
	PROPOSED CONCRETE ENCASED DUCT
	PROPOSED LIGHTED SIGN



MATCH LINE - STATION 1+00
SEE THIS SHEET BELOW

MATCH LINE - STATION 1+00
SEE THIS SHEET ABOVE

MATCH LINE - STATION 9+50
SEE THIS SHEET BELOW

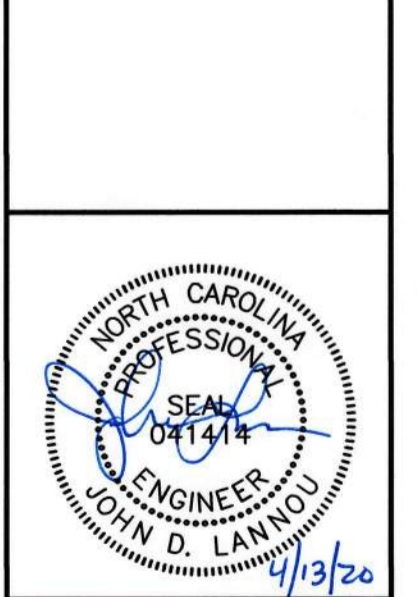
MATCH LINE - STATION 9+50
SEE THIS SHEET ABOVE

TALBERT & BRIGHT
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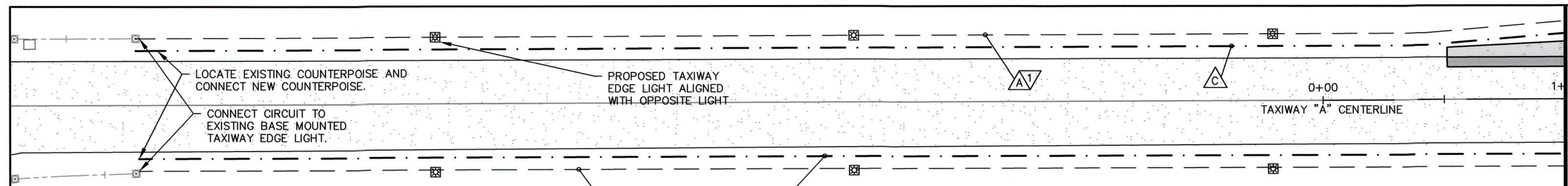
REV. NO.	DESCRIPTION	DATE

HARNETT REGIONAL AIRPORT
HARNETT COUNTY, NORTH CAROLINA
**APRON EXPANSION
SCHEDULE 1 (CONCRETE)**
LIGHTING LAYOUT PLAN



Date: MAR 2020
Scale: 1" = 30'
Drawn: JDL/RPD
Checked: JDL/AMS
Project No.: 2701-1802
Sheet No.:

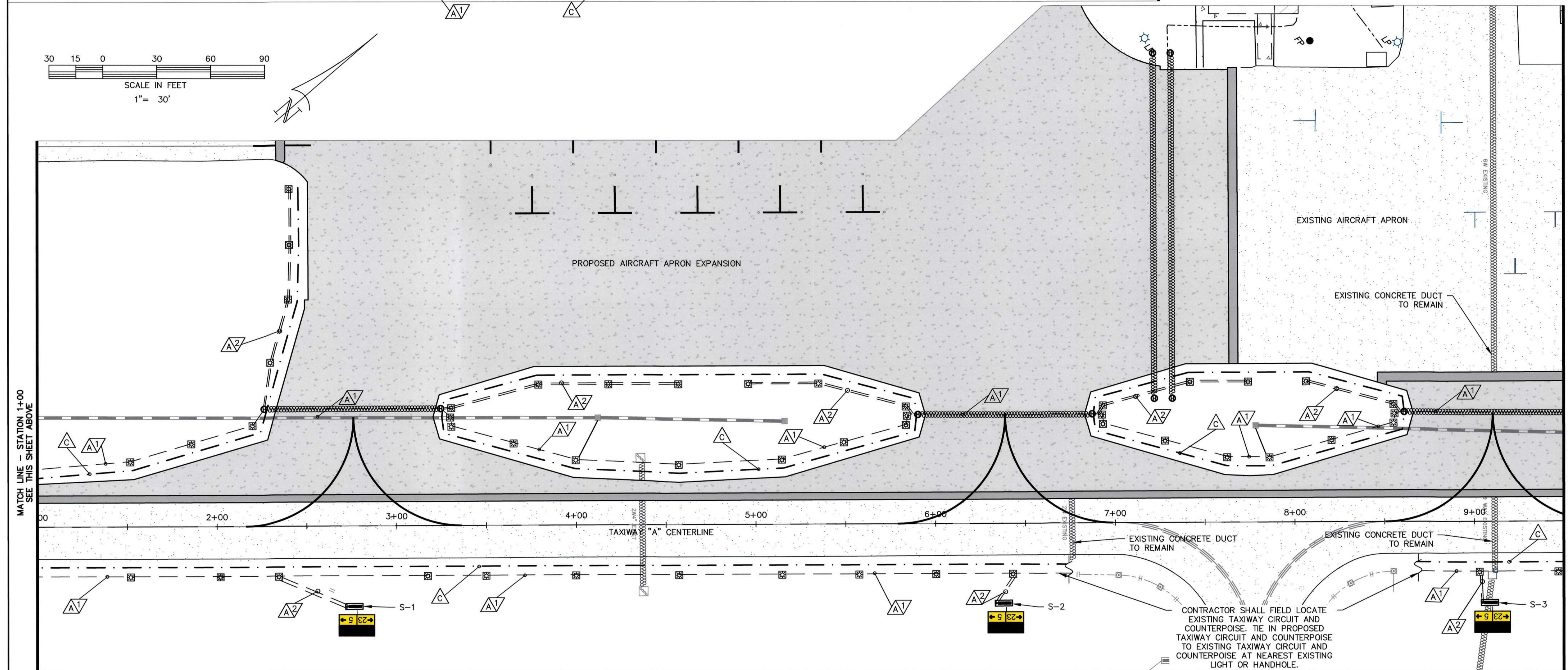
C16



MATCH LINE - STATION 1+00
SEE THIS SHEET BELOW

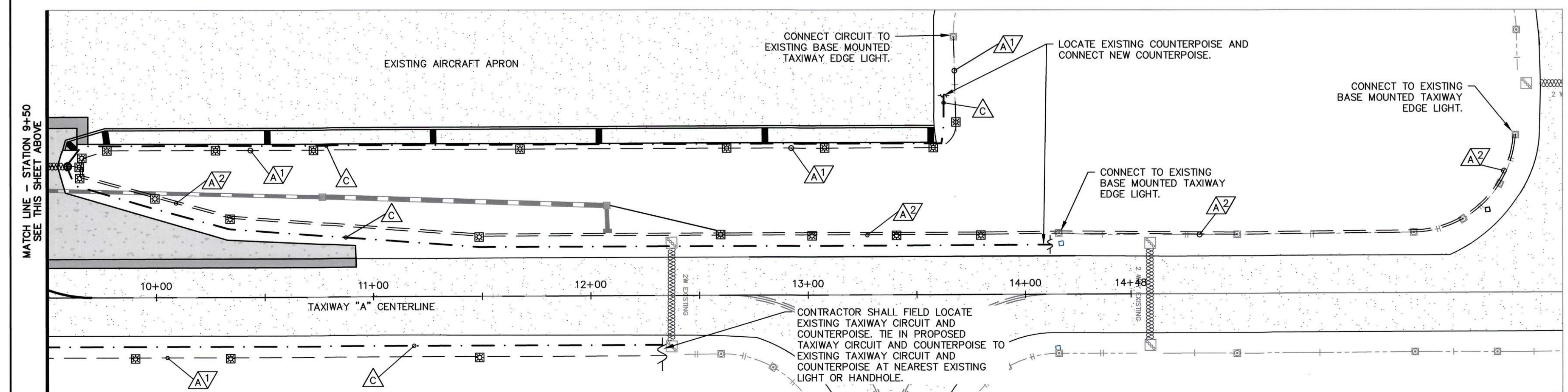
CIRCUIT LEGEND

- PROPOSED TAXIWAY CIRCUIT
1-1/C #8 AWG, 5KV, L-824C INSTALLED IN NEW
2" PVC CONDUIT OR DUCT
- PROPOSED TAXIWAY CIRCUIT
2-1/C #8 AWG, 5KV, L-824C INSTALLED IN NEW
2" PVC CONDUIT OR DUCT
- PROPOSED COUNTERPOISE
1-#6 AWG BARE COPPER



MATCH LINE - STATION 1+00
SEE THIS SHEET ABOVE

MATCH LINE - STATION 9+50
SEE THIS SHEET BELOW



MATCH LINE - STATION 9+50
SEE THIS SHEET ABOVE

LEGEND

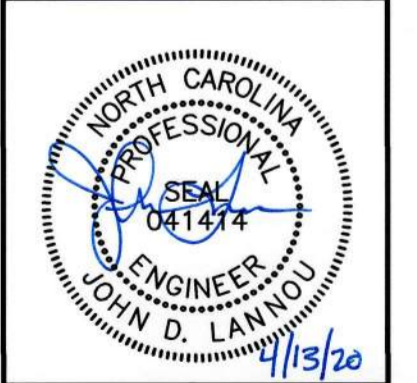
	PROPOSED BITUMINOUS PAVEMENT
	PROPOSED CONCRETE PAVEMENT
	EXISTING CONCRETE PAVEMENT
	EXISTING BITUMINOUS PAVEMENT
	PROPOSED BASE MOUNTED TAXIWAY EDGE LIGHT
	EXISTING DUCT
	EXISTING TAXIWAY EDGE LIGHT
	PROPOSED HANDHOLE
	PROPOSED CONCRETE ENCASED DUCT
	PROPOSED LIGHTED SIGN
	PROPOSED TAXIWAY CIRCUIT
	PROPOSED COUNTERPOISE

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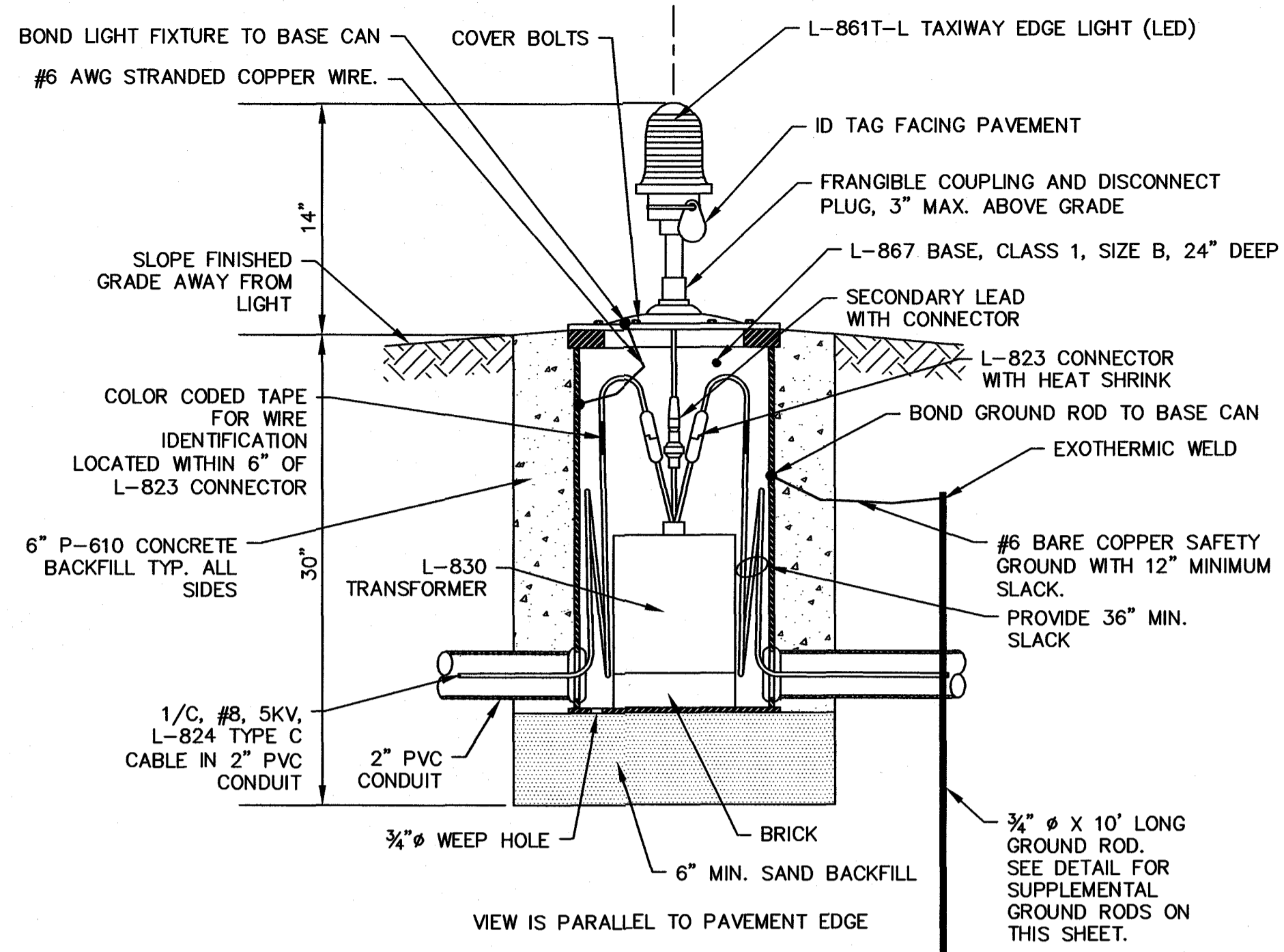
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HARNETT REGIONAL AIRPORT
HARNETT COUNTY, NORTH CAROLINA
APRON EXPANSION
SCHEDULE 1 (CONCRETE)
LIGHTING CIRCUIT PLAN

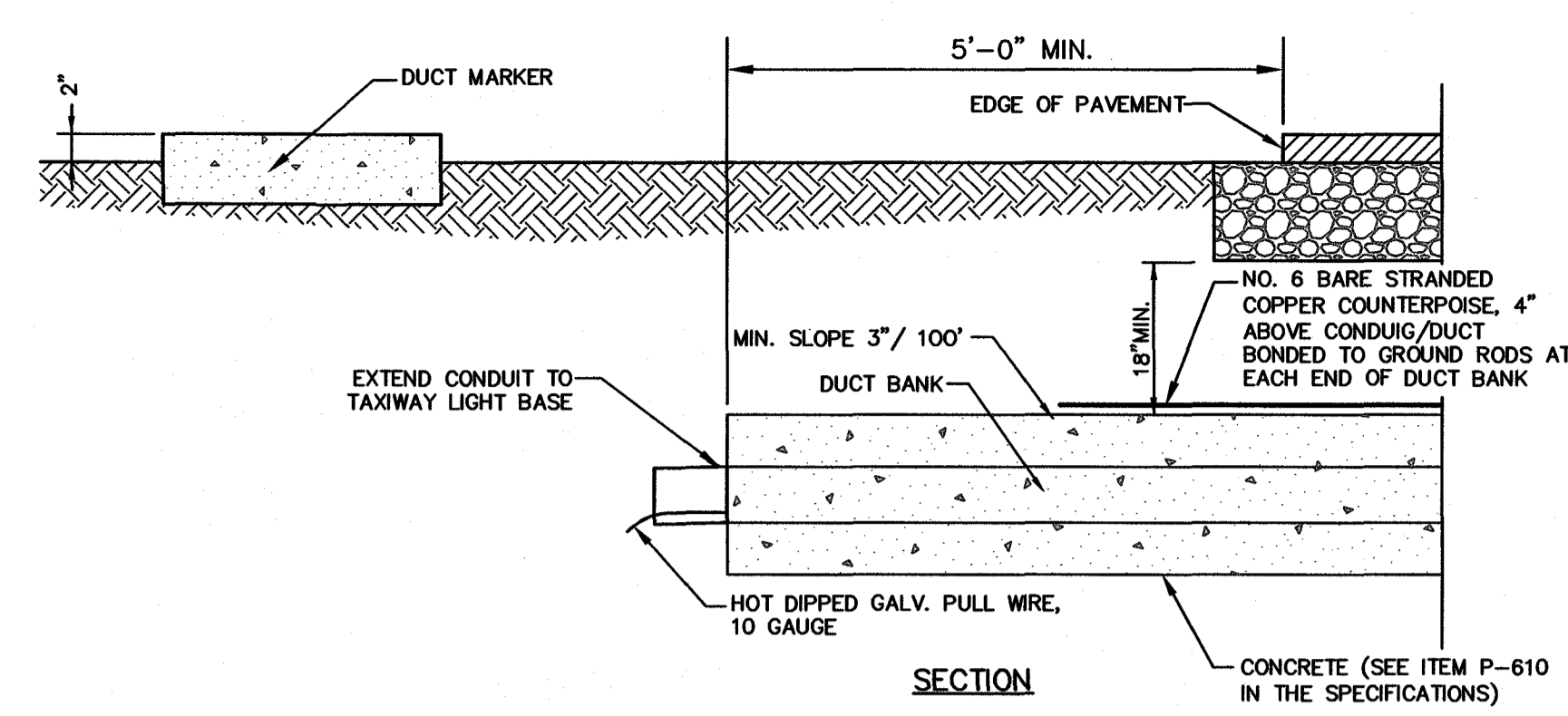


Date: MAR 2020
Scale: 1" = 30'
Drawn: JDL/RPD
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Project No.: 2701-1802
Sheet No.:



MEDIUM INTENSITY BASE-MOUNTED TAXIWAY LIGHT
NOT TO SCALE

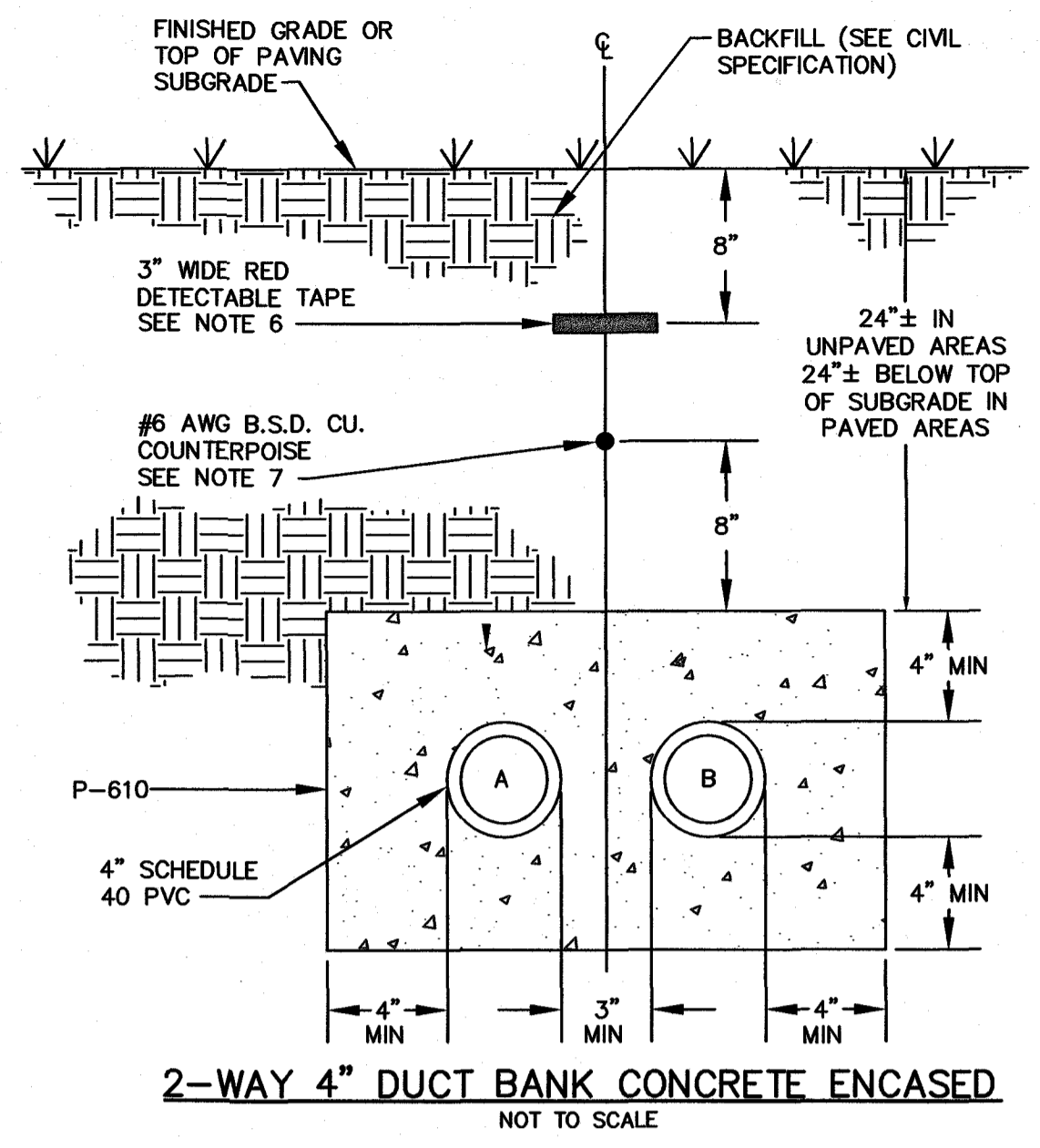
- NOTES:**
1. PRICE FOR "SUPPLEMENTAL GROUND ROD" SHALL INCLUDE GROUND ROD, #6 WIRE, AND IMPEDANCE TESTING.
 2. CONTRACTOR MAY PRE-CAST LIGHT BASES, OR MAY CAST IN-PLACE.



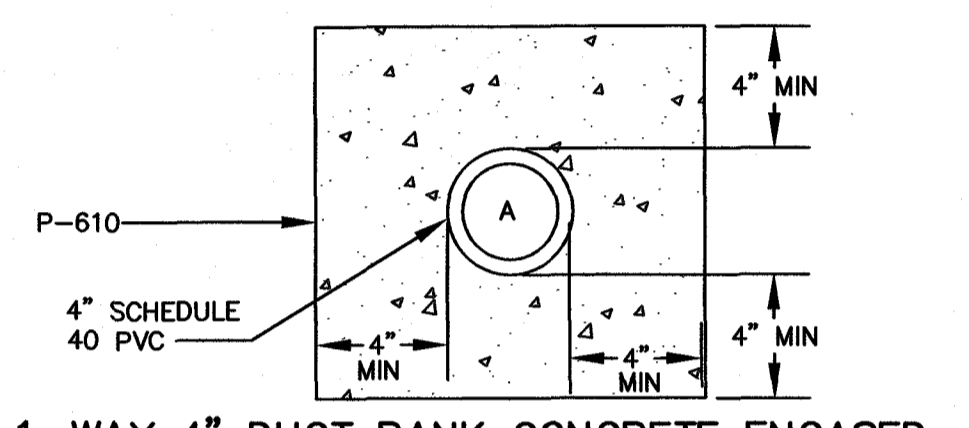
2-WAY CONCRETE ENCASED DUCT & MARKER DETAIL
NOT TO SCALE

NOTE: AT NEW DUCT BANK LOCATIONS, COUNTERPOISE SHALL BE TERMINATED AT NEW GROUND ROD INSTALLED OUTSIDE HANDHOLE.

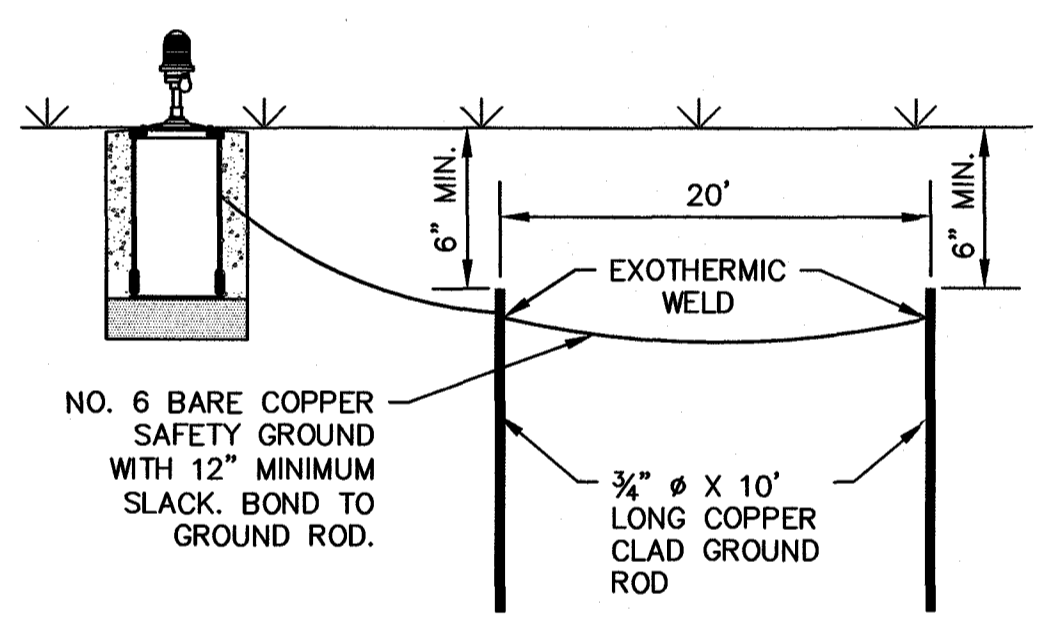
- DUCK BANK NOTES:**
1. BACKFILL SHALL COMPLY WITH CONTRACT DOCUMENTS.
 2. DEWATERING FOR THE INSTALLATION OF MANHOLES, DUCT BANKS OR CONDUITS IS INCIDENTAL TO THE RESPECTIVE PAY ITEM. THE CONTRACTOR SHALL BE RESPONSIBLE TO PAY FOR AND OBTAIN ANY AND ALL PERMITS REQUIRED FOR DEWATERING.
 3. THE CONCRETE AROUND CONDUITS, DUCTS AND BASE CANS SHALL BE COMPLETELY CONSOLIDATED BY MECHANICAL MEANS AND SHALL BE FREE OF ANY VOIDS.
 4. ALL DUCTS SHALL BE SECURELY FASTENED IN PLACE DURING CONSTRUCTION AND PROGRESS OF THE WORK AND SHALL BE PLUGGED TO PREVENT SEEPAGE OF GROUT, WATER OR DIRT. ANY DUCT SECTION HAVING A DEFECTIVE JOINT SHALL NOT BE INSTALLED. DUCTS SHALL BE SUPPORTED AND SPACED APART USING APPROVED SPACERS AT INTERVALS NOT TO EXCEED 5 FEET.
 5. ALL CONSTRUCTION JOINTS IN CONCRETE ENCASED DUCTS SHALL HAVE A MINIMUM OF 4 STEEL DOWELS, EVENLY SPACED AND INSTALLED AT THE JOINT. THE DOWELS SHALL BE #4 DEFORMED STEEL REINFORCING BARS, 24" LONG, WITH 1/2 OF THE LENGTH EMBEDDED IN THE PLASTIC CONCRETE THAT IS CONSTRUCTED INITIALLY.
 6. INSTALL AN APPROVED RED PLASTIC, DETECTABLE, MAGNETIC, 3" WIDE TAPE, 8" BELOW FINISHED GRADE ABOVE ALL PORTIONS OF DUCT BANKS AND CONDUITS NOT INSTALLED UNDER AIRFIELD PAVEMENTS. THE TAPE SHALL HAVE CONTINUOUS PRINTING WITH THE MESSAGE, "CAUTION - ELECTRIC LINE BELOW".
 7. THE COUNTERPOISE SHALL BE POSITIONED ACCORDINGLY: SEE DETAILS
 - (a) 8" ABOVE THE DUCT/DUCT BANK CENTERLINE WHEN INSTALLED AT RIGHT ANGLES TO OR UNDER PAVEMENT OR IN GRASSY AREAS.
 - (b) WHERE CONDUIT RUNS IN TURF ARE ADJACENT TO PAVEMENT, THE COUNTERPOISE IS INSTALLED 8" BELOW GRADE, LOCATED HALF THE DISTANCE FROM EDGE OF PAVEMENT TO THE CONDUIT RUN.
 - (c) EXCEPTIONS MAY HAVE TO BE MADE TO (a) AND (b) ABOVE UNDER FULL STRENGTH PAVEMENT, THE 8" WILL VARY, DEPENDENT ON BASE AND PAVEMENT THICKNESS.
 - (d) TWO COUNTERPOISE CONDUCTORS MAY BE REQUIRED, SEE DUCTBANK DETAILS.
 8. THE DEPTH OF THE BURIAL TO THE TOP OF THE DUCT BANK SHALL BE APPROXIMATELY 24"± BELOW FINISHED GRADE IN UNPAVED AREAS AND APPROXIMATELY 24"± BELOW THE SUBGRADE AT THE CROWN OF ANY PAVEMENT.
 9. ALL BACKFILL SHALL COMPLY WITH THE CIVIL SPECIFICATIONS AND SHALL BE COMPACTED TO ORIGINAL VALUES.
 10. ALL CONDUITS UNDER PAVEMENT SHALL BE CONCRETE ENCASED.
 11. A GPS SURVEY FOR LOCATION AND DEPTH FOR END OF DUCT SHALL BE PROVIDED AND RECORDED ON AS-BUILT DRAWINGS.



2-WAY 4" DUCT BANK CONCRETE ENCASED
NOT TO SCALE

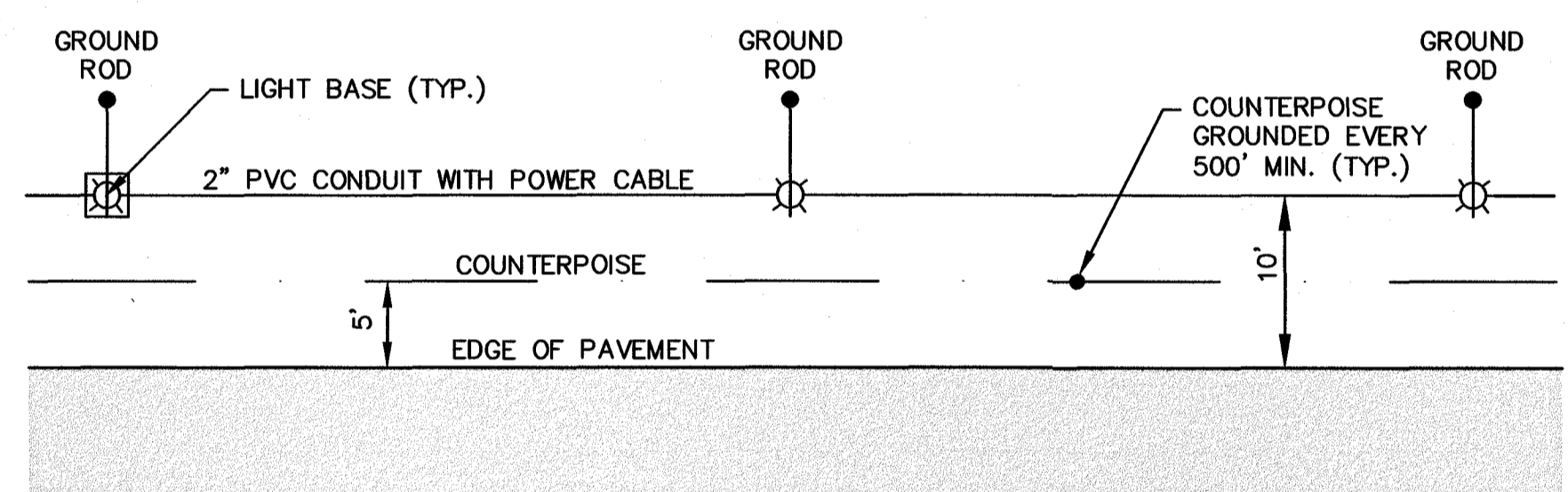


1-WAY 4" DUCT BANK CONCRETE ENCASED
NOT TO SCALE

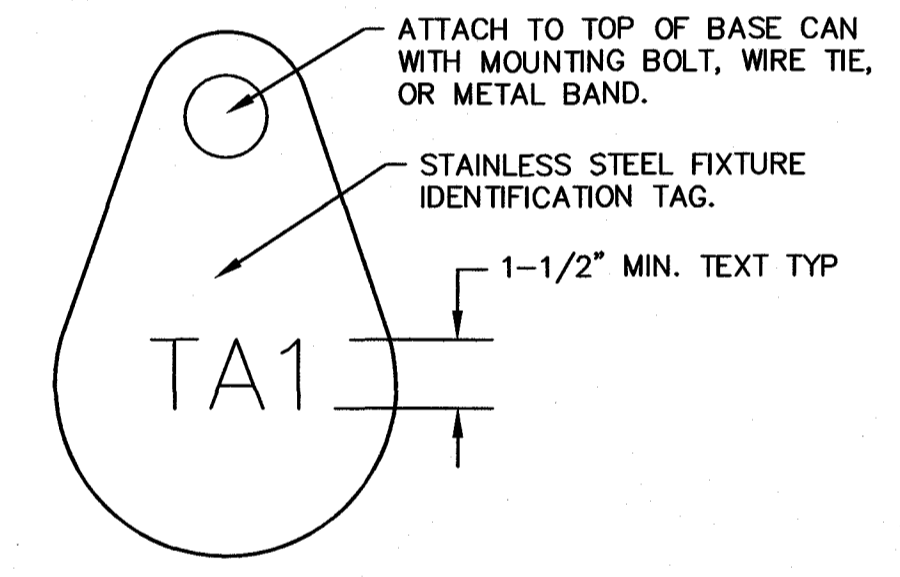


SUPPLEMENTAL GROUND RODS
NOT TO SCALE

NOTE: SUPPLEMENTAL GROUND RODS SHALL INCLUDE ADDITIONAL GROUND ROD, TRENCHING, #6 AWG CONNECTING WIRE, AND EXOTHERMIC WELDS FOR A COMPLETE INSTALLATION.

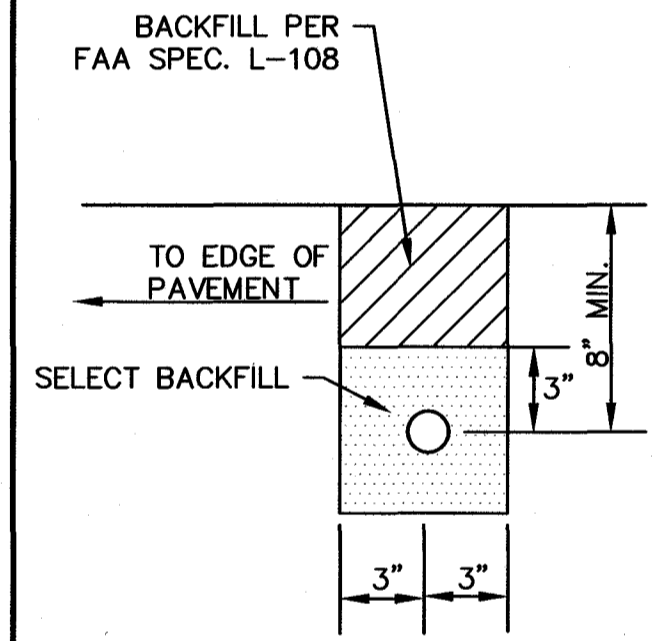


TYPICAL COUNTERPOISE AND GROUND ROD CONNECTIONS
NOT TO SCALE

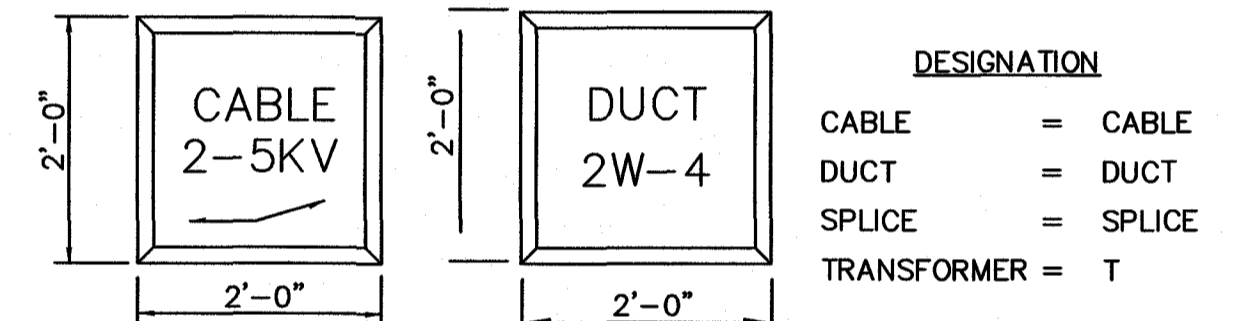


FIXTURE IDENTIFICATION TAG DETAIL
NOT TO SCALE

- NOTES:**
1. INSTALLATION OF ID MARKERS AND STAMPING OF ID'S ARE INCIDENTAL TO FIXTURE PAY ITEMS.
 2. AFFIX NON-CORROSIVE TAG TO FIXTURE FACING PAVEMENT.

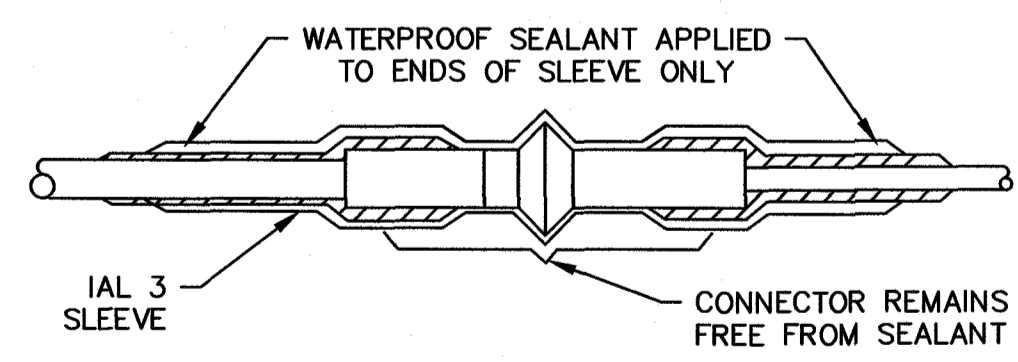


COUNTERPOISE TRENCH
NOT TO SCALE



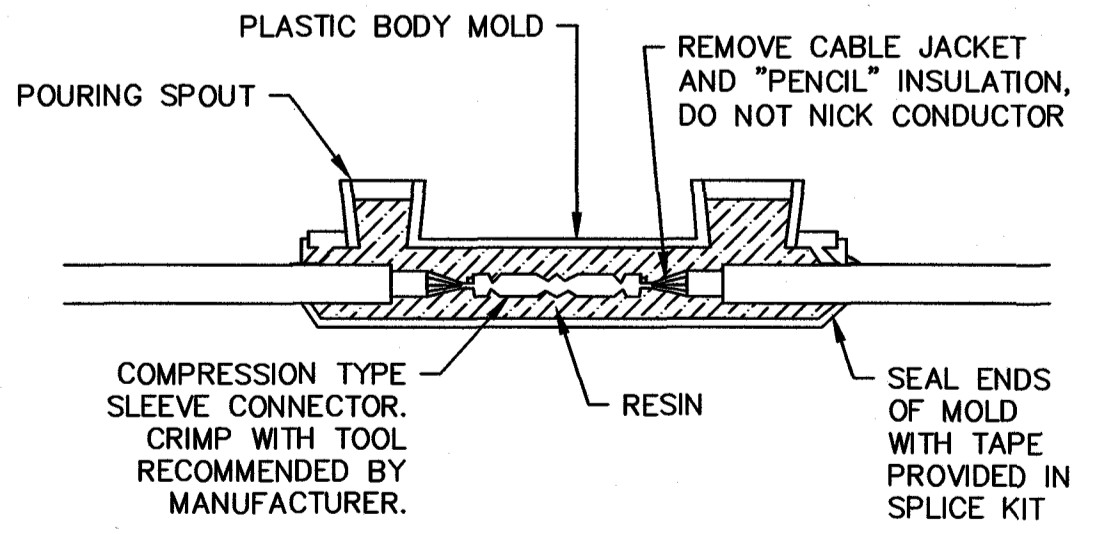
DUCT/CABLE MARKER DETAIL
NOT TO SCALE

1. MARKER DESIGNATIONS SHALL BE INSCRIBED ON MARKER IN LETTERS 4" HIGH x 3" WIDE WITH 1/2" LINE THICKNESS SPACED 1 1/2" APART, 1/4" DEEP IN A MANNER ACCEPTABLE TO THE ENGINEER. SEE ITEM L-108 OF THE SPECS.
2. MARKERS SHOULD BE 4" THICK MINIMUM.
3. CABLE MARKERS SHOULD INDICATE WHAT CIRCUIT CABLE BELONGS TO AND SHALL BE SPACED 200' MAX WITH ADDITIONAL MARKERS AT CHANGES IN DIRECTION.
4. DUCT MARKER SHOULD INDICATE NUMBER AND SIZE (i.e. 2W-4in.) OF DUCT
5. ARROWS SHALL BE ADDED, WHEN NECESSARY, TO INDICATE CHANGE OF DIRECTION OF CABLE RUN.



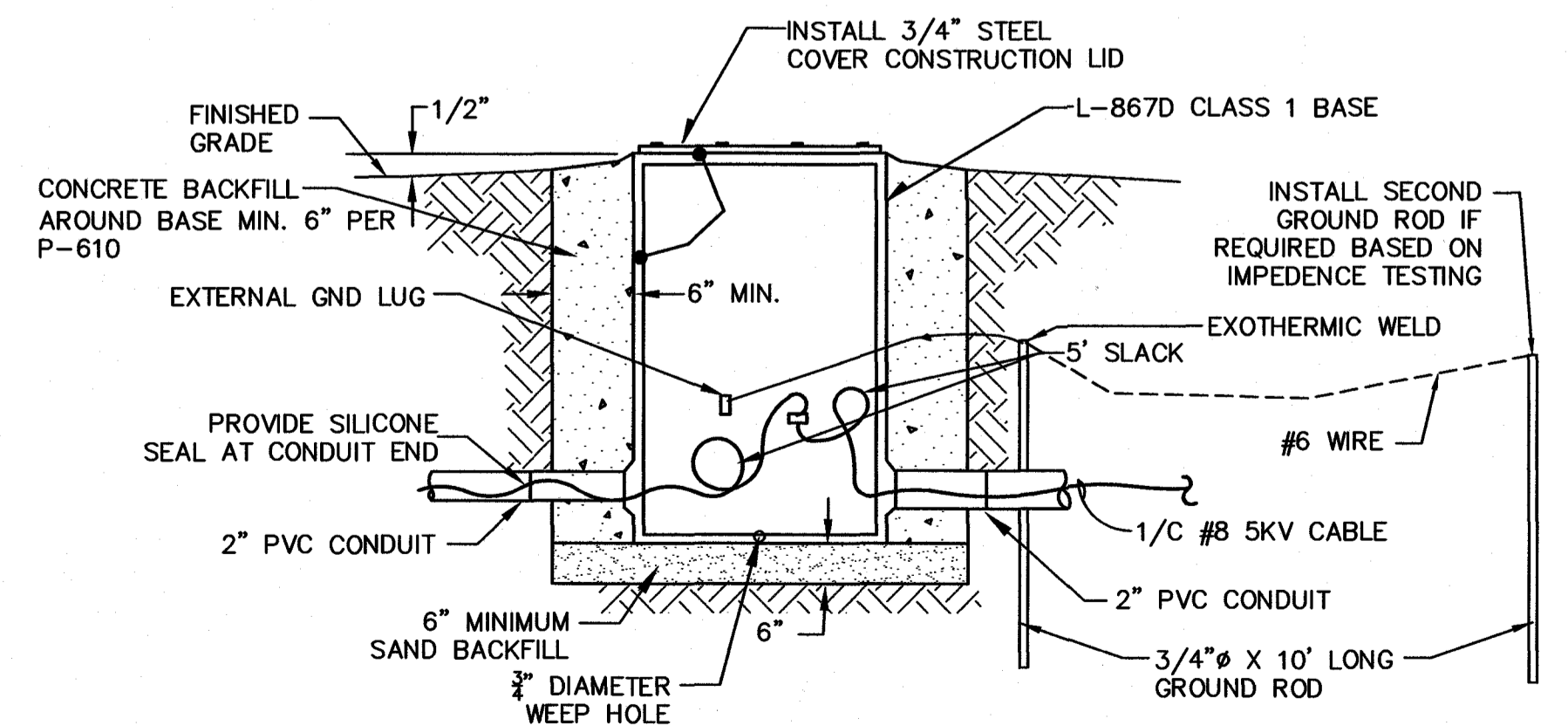
HEAT SHRINK SPLICE DETAIL FOR L-823 CONNECTOR KIT
NOT TO SCALE

- NOTES:**
1. SLIDE THE SLEEVE OVER THE CABLE BEFORE MAKING ELECTRICAL CONNECTION. MATE CONNECTOR SECTIONS AND WIPE DIRT FROM CONNECTOR AND CABLE.
 2. PRE-HEAT CABLE JACKET. CENTER SLEEVE OVER CONNECTOR. BEGIN SHRINKING AT CENTER, WORKING TOWARD BOTH ENDS. USE A BACK-AND-FORTH, SWEEPING MOTION OF THE TORCH.
 3. SHRINKING IS COMPLETE WHEN MELTED SEALANT IS SQUEEZED FROM BOTH ENDS OF THE SLEEVE AND ALL HEAT-SENSITIVE PAINT HAS CHANGED FROM BLUE TO GRAY.
 4. HEAT-SHRINKABLE KIT IS SUBSIDIARY TO FIXTURE/ TRANSFORMER INSTALLATION. NO SEPARATE PAYMENT FOR THIS ITEM.



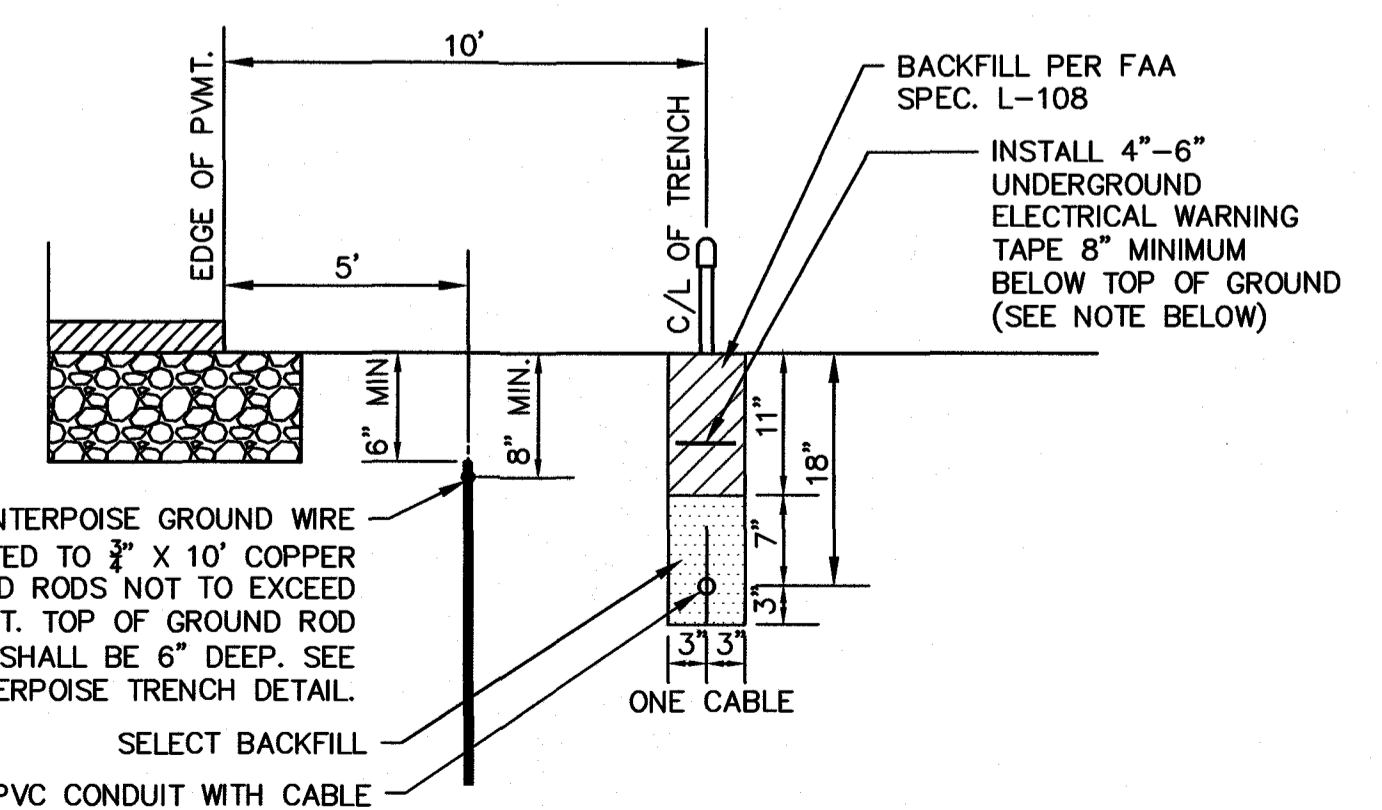
CABLE SPLICE
NOT TO SCALE

NOTE: CONNECTION OF CONDUCTORS MUST BE MADE BY USING CRIMP CONNECTORS AND A CRIMPING TOOL APPROVED BY THE CONNECTOR/LUG MANUFACTURER. THE TOOL MUST PRODUCE A COMPLETE CRIMP BEFORE IT CAN BE REMOVED. THE CRIMPING TOOL USED MUST BE LISTED BY THE L-823 KIT MANUFACTURER. MAKE THE NUMBER AND TYPE OF CRIMPS PER THE KIT MANUFACTURER'S INSTRUCTIONS.



L-867D HANDHOLE
NOT TO SCALE

- NOTES:**
1. LIGHT BASE TO BE PROVIDED WITH GROMMET.
 2. PRICE FOR "SECOND GROUND ROD" SHALL INCLUDE GROUND ROD, #6 WIRE, AND IMPEDANCE TESTING. SEE SUPPLEMENTAL GROUND ROD DETAIL THIS SHEET.



CABLE TRENCH
NOT TO SCALE

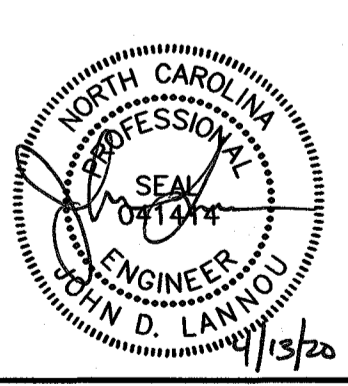
NOTE: UNDERGROUND ELECTRICAL WARNING TAPE SHALL BE 4"-6" WIDE POLYETHYLENE FILM DETECTABLE TAPE WITH A METALIZED FOIL CORE. TAPE SHALL BE INSTALLED 6" ABOVE CABLE AND A MINIMUM OF 8" BELOW GROUND.

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REV. NO.	DESCRIPTION	DATE

HARNETT REGIONAL AIRPORT
HARNETT COUNTY, NORTH CAROLINA
APRON EXPANSION
SCHEDULE 1 (CONCRETE)
LIGHTING DETAILS (SHEET 1 OF 2)



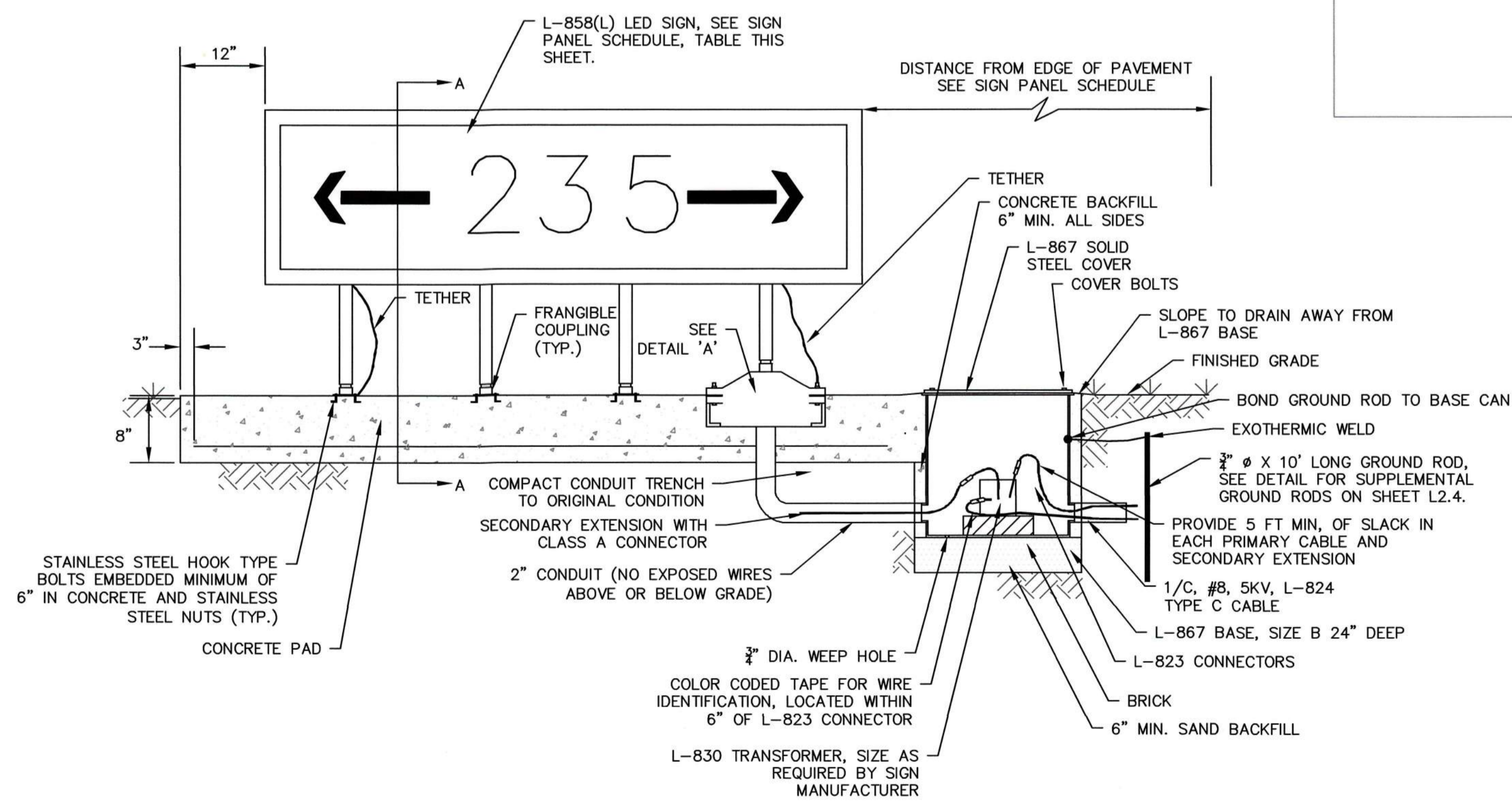
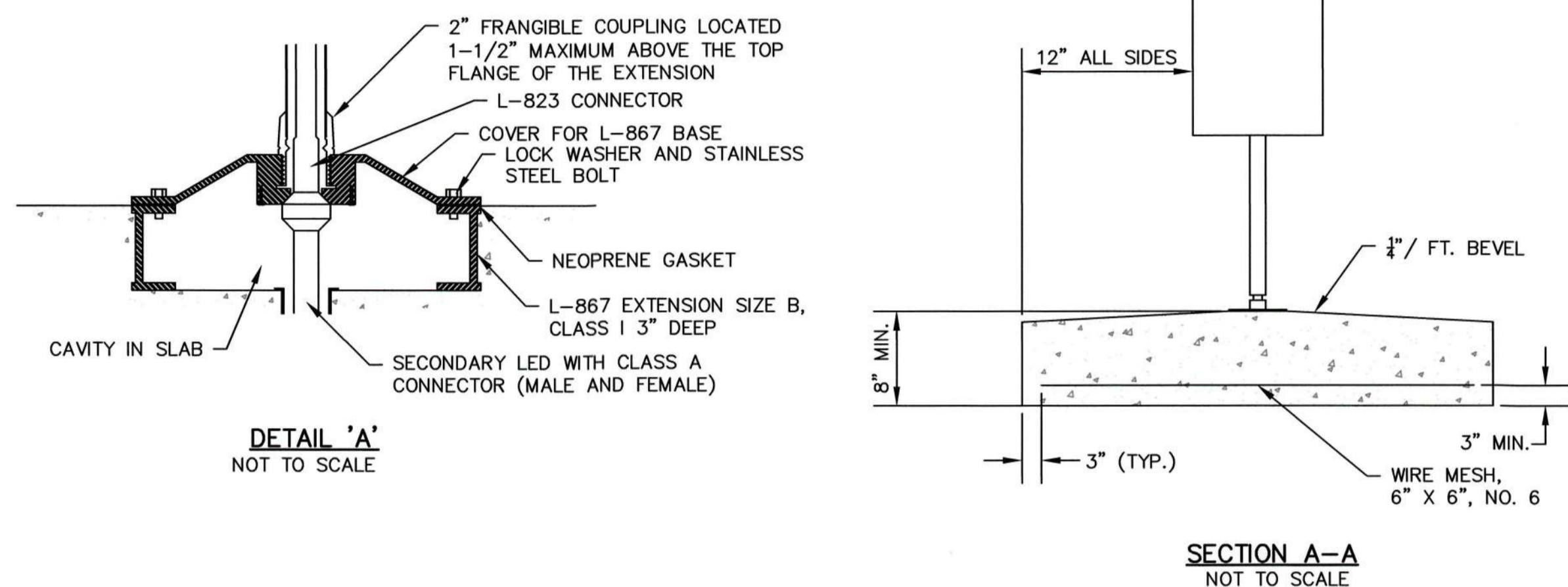
Date	MAR 2020
Scale	NTS
Drawn	JDL/RPD
Checked	JDL/AMS
Project No.	2701-1802
Sheet No.	

C18

SIGN PANEL LEGEND										
SIGN NO.	FACE 1	FACE 2	SIGN TYPE	STYLE	CLASS	SIZE	MODE	NO. OF MODULES	DISTANCE FROM PAVEMENT EDGE	COMMENTS
S-1	←23 5→	--	Y	2	1	2	2	3	25'	EXISTING SIGN TO BE RELOCATED
S-2	←23 5→	--	Y	2	1	2	2	3	25'	NEW SIGN
S-3	←23 5→	--	Y	2	1	2	2	3	25'	NEW SIGN

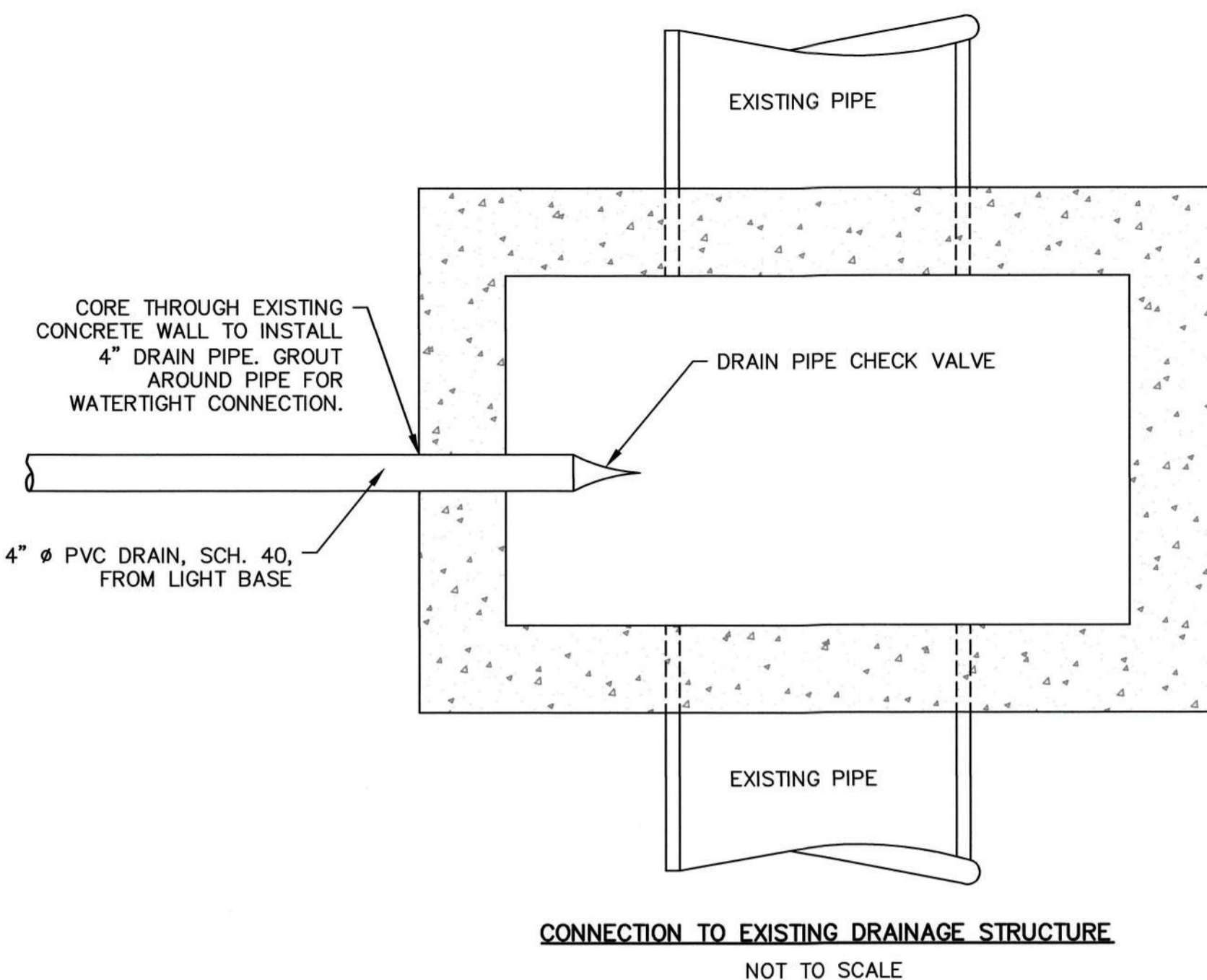
SIGN NOTES:

- FOR SIGN PANEL LEGEND, SEE TABLE ABOVE.
- SIGN SYMBOLS IN THESE DRAWINGS UTILIZE THE AUTOCAD "STANDARD" TEXT STYLE. ALPHANUMERIC CHARACTERS ON THE ACTUAL SIGNS SHALL CONFORM TO THE REQUIREMENTS OF AC/150/5345-44 MOST CURRENT VERSION.



LIGHTED SIGN INSTALLATION ON NEW BASE
NOT TO SCALE

- NOTES:**
- PROVIDE NEW SIGNS WITH ON/OFF SWITCH AND TETHERS.
 - NUMBER AND SPACING OF LEGS AS PER MANUFACTURER'S REQUIREMENTS.



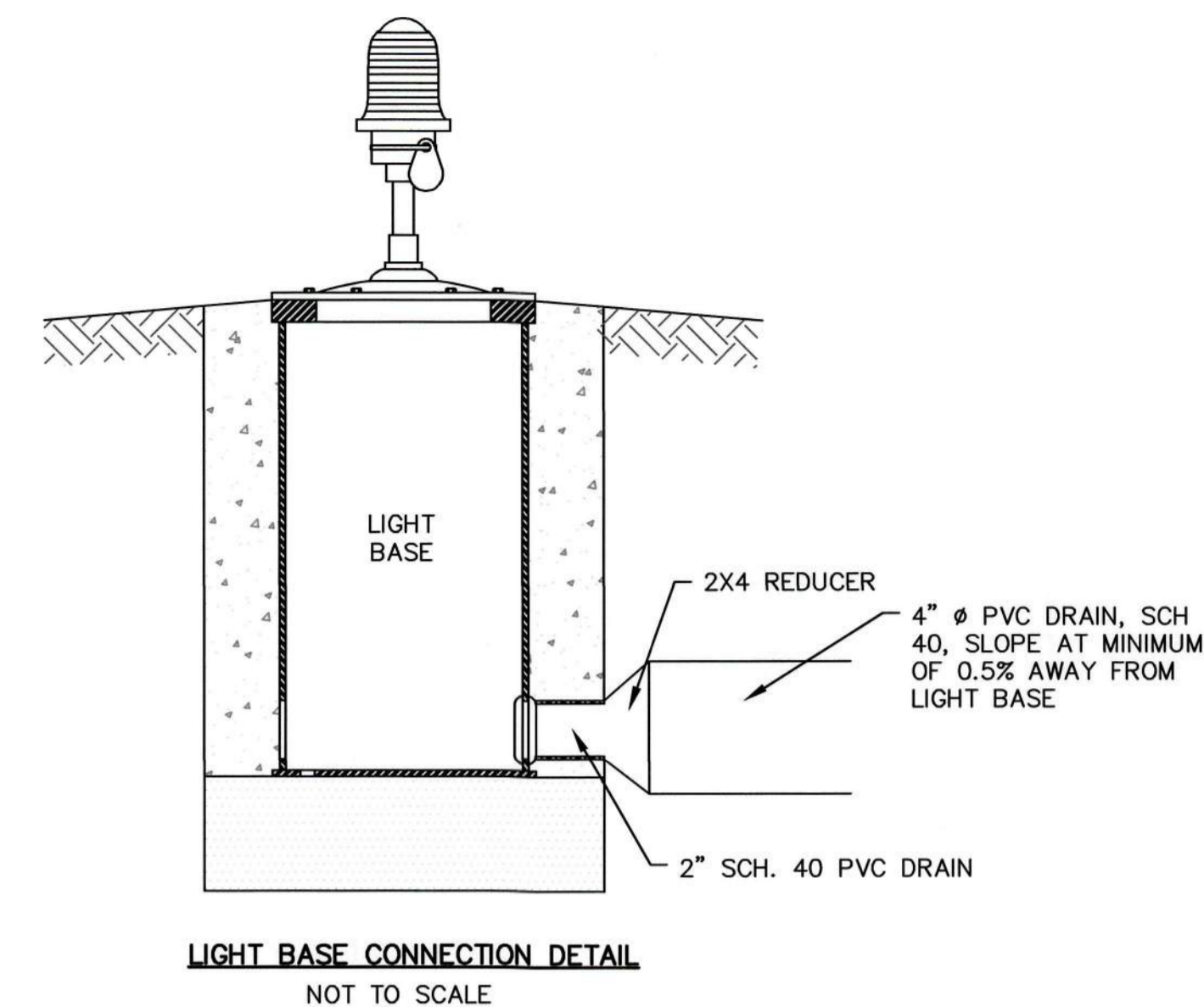
DRAINAGE STRUCTURE CONNECTION NOTES:

- CONNECTION TO EXISTING STRUCTURE SHALL BE WATERTIGHT CONNECTION. CONTRACTOR SHALL CORE HOLE FOR OUTLET PIPE AND GROUT OPENING.
- INSTALL CHECK VALVE TO PREVENT STORM WATER IN DRAINAGE PIPES AND STRUCTURES FROM ENTERING THE LIGHT DRAIN PIPE SYSTEM. CHECK VALVE SHALL BE INSTALLED ON THE END OF THE 4" Ø PVC DRAIN PIPE.

GENERAL NOTES:

- COST OF CHECK VALVE AND CONNECTIONS TO LIGHT BASES INCLUDED IN UNIT COST OF PIPE.
- HEADWALL TO BE INSTALLED TO MATCH SLOPE AND BE FLUSH WITH EXISTING GROUND.

PVC LIGHTING CONDUIT DRAIN DETAILS
NOT TO SCALE

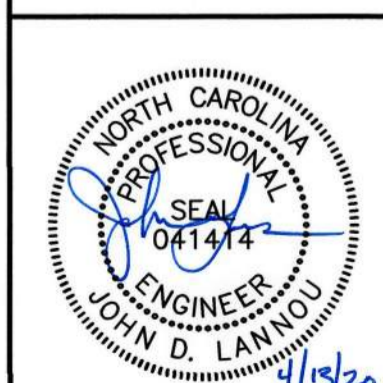


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