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GENERAL NOTES:

1. GENERAL

- 1.01 ALL WORK SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE (2017 EDITION), IDOT STANDARDS AND SPECIFICATIONS, AND ALL APPLICABLE STATE AND/OR LOCAL CODES.
- 1.02 ALL EQUIPMENT, RACEWAYS, WIRING, ETC. SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER IN ACCORDANCE WITH NECA 1 (STANDARD PRACTICE OF GOOD WORKMANSHIP IN ELECTRICAL CONSTRUCTION), AND WITHOUT VIOLATING ANY REQUIRED CLEAR WORKING SPACE (NEC 110.26).
- 1.03 IN NO WAY SHALL THESE PLANS BE INTERPRETED AS REQUIRING A VIOLATION OF THE NATIONAL ELECTRICAL CODE, OR ANY OTHER APPLICABLE FEDERAL, STATE, OR LOCAL CODE OR REGULATION. IN ANY CASE OF DISPUTE BETWEEN THESE PLANS AND THE NATIONAL ELECTRICAL CODE, THE MORE STRINGENT REQUIREMENT SHALL GOVERN.
- 1.04 THE INSTALLATION OF ALL EQUIPMENT AND MATERIALS SHALL COMPLY WITH THEIR RESPECTIVE MANUFACTURERS' RECOMMENDATIONS AND INSTALLATION PROCEDURES.
- 1.05 THE CONTRACTOR IS REQUIRED TO DELIVER A COMPLETE, WORKING, AND SAFE ELECTRICAL SYSTEM.
- 1.06 VARIATIONS FROM THESE PLANS MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL. ALL CHANGES SHALL BE REFLECTED IN THE AS-BUILT DRAWINGS.
- 1.07 IN ADDITION TO THE MATERIALS, COMPONENTS, AND EQUIPMENT SHOWN ON THE PLANS. PROVIDE ALL RACEWAYS, JUNCTION AND PULL BOXES, FITTINGS, CONDUCTORS, CONNECTORS, AND OTHER ITEMS REQUIRED TO PROVIDE A COMPLETE, FUNCTIONAL, AND SAFE INSTALLATION.
- 1.08 THE CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR VERIFICATION OF ALL RELEVANT DIMENSIONS, EQUIPMENT SPECIFICATIONS, ELECTRICAL LOADS, CIRCUIT LOADS, AND SIMILAR INFORMATION PRIOR TO PURCHASE AND/OR FABRICATION OF EQUIPMENT OR MATERIALS, EQUIPMENT RATINGS AND/OR WIRE SIZES SHOWN ON THE PLANS SHALL BE INCREASED WHERE REQUIRED BY THE LOADS SERVED.
- 1.09 THE CONTRACTOR SHALL INVESTIGATE AND/OR VERIFY THE LOCATIONS OF ALL EXISTING FACILITIES, ABOVE GROUND AND UNDERGROUND, PRIOR TO CONSTRUCTION. ANY DAMAGE TO EXISTING FACILITIES SHALL BE REPAIRED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST.
- 1.10 THE CONTRACTOR SHALL CAREFULLY TRACE, LOCATE, IDENTIFY, AND DOCUMENT ALL EXISTING EQUIPMENT, CONDUCTORS, RACEWAYS, AND OTHER ITEMS WHICH ARE EXISTING AND TO REMAIN IN PLACE, BE RE-ROUTED, OR BE RELOCATED. THE CONTRACTOR SHALL EXERCISE CARE NOT TO DAMAGE ANY ITEMS WHICH ARE EXISTING AND TO REMAIN IN PLACE.
- 1.11 ALL EQUIPMENT, RACEWAYS, WIRING, ETC. SHOWN ON THESE PLANS, OR OTHERWISE REQUIRED, SHALL BE NEW UNLESS SPECIFICALLY NOTED OTHERWISE.
- 1.12 LOCATIONS OF RACEWAYS, CABLES, AND EQUIPMENT SHOWN ARE DIAGRAMMATIC ONLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR AND SUBJECT TO THE APPROVAL OF THE ENGINEER.
- 1.13 THE CONTRACTOR IS REQUIRED TO COORDINATE WITH THE LOCAL ELECTRIC UTILITY COMPANY FOR ALL ELECTRIC SERVICE INTERRUPTIONS REQUIRED BY HIS WORK.
- 1.14 WHERE DETAILS ARE NOT PROVIDED OR FULLY DEVELOPED, THE CONTRACTOR SHALL PROVIDE THE ADDITIONAL DETAIL DEVELOPMENT NECESSARY TO PROVIDE AND SUBMIT LAYOUT DRAWINGS AND SHOP DRAWINGS FOR REVIEW.
- 1.15 NO FIELD WELDING IS PERMITTED EXCEPT AS SPECIFIED IN THE CONTRACT DOCUMENTS.

- 2. WIRING MATERIALS & METHODS
- 2.01 RIGID CONDUITS SHALL BE SUPPORTED WITHIN 18 INCHES OF ALL TERMINATIONS AND AT REGULAR INTERVALS NOT TO EXCEED 6 FEET. FLEXIBLE CONDUITS SHALL BE SUPPORTED WITHIN 12 INCHES OF ALL TERMINATIONS AND AT REGULAR INTERVALS NOT TO EXCEED 3 FEET.
- 2.02 ALL CONDUIT CONNECTIONS TO BOXES AND ENCLOSURES WHICH DO NOT HAVE INTEGRAL THREADED HUBS SHALL UTILIZE WEATHERPROOF GROUNDING TYPE HUBS OR CONNECTORS, ALL HUBS AND CONNECTORS SHALL HAVE INSULATED THROATS OR BE PROVIDED WITH INSULATED BUSHINGS.
- 2.03 ANY CONDUIT ROUTINGS SHOWN ON THESE PLANS ARE CONCEPTUAL ONLY. ACTUAL ROUTINGS SHALL BE DETERMINED BY THE CONTRACTOR BASED ON ACTUAL CONDITIONS AND SUBMITTED TO THE ENGINEER FOR APPROVAL.
- 2.04 ALL CONDUCTORS SHALL BE STRANDED COPPER TYPE RHW-2, EXCEPT WHERE SHOWN OTHERWISE ON THE PLANS. THE MINIMUM SIZE FOR FIELD POWER AND CONTROL WIRING SHALL BE 10 AWG. CONDUCTOR INSULATION SHALL HAVE A 600V MINIMUM RATING. SIZE AS SHOWN ON PLANS.
- 2.05 CONDUCTOR FILL IN RACEWAYS SHALL NOT EXCEED 40%. MINIMUM CONDUIT SIZE SHALL BE ¾ INCH.
- 2.06 WIRING IN ENCLOSURES, CABINETS, BOXES, ETC. SHALL BE NEATLY ROUTED AND BUNDLED WITH PVC CABLE TIES OR PLACED IN NON-METALLIC WIRING TROUGHS.
- 2.07 SPARE AND UN-TERMINATED CONDUCTORS SHALL BE CAPPED, OR CONNECTED TO SPARE TERMINAL BLOCKS WHERE AVAILABLE, AND CLEARLY IDENTIFIED AS SPARES. ONE FULL TURN OF SLACK FOR ALL SPARE CONDUCTORS SHALL BE PROVIDED IN ALL ENCLOSURES, CABINET, BOXES, ETC.
- 2.08 ONE FULL TURN OF SLACK SHALL BE PROVIDED FOR ALL CONDUCTORS IN ALL PULL BOXES, AND JUNCTION BOXES.
- 2.09 CONDUCTOR SPLICES SHALL BE MADE ONLY IN JUNCTION BOXES, OUTLET OR DEVICE BOXES, AND EQUIPMENT ENCLOSURES. SPLICES SHALL BE MADE ONLY ON TERMINAL BLOCKS, EXCEPT FOR SPLICES AT LUMINAIRES AND WIRING DEVICES WHICH SHALL UTILIZE COMPRESSION TYPE, OR SIMILAR APPROVED, CONNECTORS. LIMIT USE OF SET-SCREW TYPE CONNECTORS TO DEVICES TO BE REPLACED DURING LONG TERM MAINTENANCE. TWIST-ON (WIRENUT) TYPE CONNECTORS SHALL NOT BE USED. TERMINAL BLOCKS SHALL NOT HAVE MORE THAN TWO CONDUCTORS PER TERMINAL.
- 2.10 LAYOUT OF TERMINAL BLOCKS IN JUNCTION BOXES SHALL COMPLY WITH THE REQUIREMENTS FOR WIRE BENDING SPACE GIVEN IN NEC 312.6, EXCEPT THAT THE MINIMUM SPACE PERMITTED SHALL BE 2 INCHES. PROPOSED LAYOUTS INCLUDING ANTICIPATED LOCATIONS AND SIZES OF KNOCKOUTS SHALL BE SUBMITTED FOR APPROVAL PRIOR TO FABRICATION.
- 2.11 A CONDUIT BODY OR BOX SHALL BE PROVIDED ON AT LEAST ONE SIDE OF ALL FLEXIBLE CONDUITS.
- 2.12 ALL RACEWAYS SHALL BE ARRANGED TO DRAIN. CONDUIT DRAINS SHALL BE INSTALLED IN A CONDUIT BODY AT LOW POINT OF ALL RUNS.
- 2.13 UNLESS SPECIFICALLY INDICATED OTHERWISE, CONDUIT AND CABLE ENTRANCES IN DAMP AND WET LOCATIONS SHALL BE MADE IN THE BOTTOM OF CABINETS AND/OR ENCLOSURES.
- 2.14 CONDUCTORS WITH GREEN COLORED INSULATION SHALL BE USED ONLY FOR GROUNDING CONDUCTORS. RE-IDENTIFICATION OF CONDUCTORS WITH GREEN COLORED INSULATION, SUCH AS WITH COLORED TAPE, IS NOT PERMITTED.
- 2.15 ADDITIONAL PULL BOXES MAY BE INSTALLED AS APPROVED BY THE ENGINEER TO FACILITATE CABLE PULLING AT NO ADDITIONAL COST.



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COMMITMENTS: NONE AS OF DECEMBER 15, 2017

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICTNINE PREPARED BY DISTRICT STUDIES & PLANS ENGINEE EXAMINED BY: DISTRICT LAND ACQUISTION ENGINEER n EXAMINED BY: DISTRIC AM DEVELORMENT ENGINEER EXAMINED BY: DISTRICT OPERATIONS ENGINEER EXAMINED BY: DISTRICT PROJECT IMPLEMENTATION ENGINEER EXAMINED BY: EXAMINED BY: DISTRICT MATERIALS ENGINEE

GENERAL NOTES (CONTINUED)

3. MISCELLANEOUS MATERIALS & METHODS

- 3.01 ALL BOLTS, NUTS, WASHERS, CONCRETE ANCHORS, AND SIMILAR HARDWARE SHALL BE TYPE 316 STAINLESS STEEL. UNLESS OTHERWISE NOTED. ALL CONCRETE ANCHORS SHALL BE EPOXY ADHESIVE TYPE, UNLESS OTHERWISE NOTED.
- 3.02 ALL BOLTED AND SIMILAR CONNECTIONS SHALL UTILIZE LOCK WASHERS. CONNECTIONS WHICH DO NOT PERMIT THE USE OF LOCK WASHERS SHALL UTILIZE AN APPROVED MEDIUM STRENGTH THREADLOCKING ADHESIVE.
- SUPPORTS FOR ELECTRICAL EQUIPMENT SHALL BE FABRICATED FROM TYPE 3 0 3 316 STAINLESS STEEL OR TYPE A36 STEEL HOT-DIP GALVANIZED AFTER FABRICATION, UNLESS OTHERWISE NOTED.
- 3.04 EQUIPMENT ENCLOSURES, CABINETS, BOXES, AND SIMILAR ITEMS SHALL BE INSTALLED PLUMB AND SECURELY FASTENED IN PLACE.

4. IDENTIFICATION

- ALL CONDUCTORS SHALL BE UNIQUELY IDENTIFIED AND CLEARLY LABELED 4.01 WITH MACHINE PRINTED, WEATHERPROOF, NON-SHRINK SLEEVE TYPE LABELS.
- ALL TERMINAL BLOCKS SHALL BE CLEARLY LABELED, AT EACH TERMINAL 4.02 POSITION, WITH MACHINE PRINTED LABELS.
- ALL ELECTRICAL EQUIPMENT ENCLOSURES, PULL AND JUNCTION BOXES, AND 4.03 SIMILAR ITEMS SHALL BE CLEARLY LABELED WITH ENGRAVED PLASTIC WEATHERPROOF LABELS (WHITE TEXT ON BLACK BACKGROUND) ATTACHED WITH STAINLESS STEEL HARDWARE.
- 4.04 THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEVELOPING A COMPREHENSIVE WIRE NUMBERING SYSTEM AND SHALL LABEL ALL WIRES, CABLES. AND TERMINAL BLOCKS. IDENTIFICATION NUMBERS SHALL BE COORDINATED FOR CONSISTENCY AND ACCURACY WITH NUMBERS SHOWN ON THE CONTRACTOR'S WIRING DIAGRAMS AND SHOP DRAWINGS, FIELD WIRING DIAGRAMS, AND ANY OTHER DIAGRAMS SHOWING THE SAME ITEM.

5. GROUNDING & BONDING

- 5.01 PROVIDE GROUNDING AND BONDING OF ALL SYSTEMS PER NEC ARTICLE 250.
- 5.02 ALL CIRCUITS SHALL INCLUDE AN EQUIPMENT GROUNDING CONDUCTOR. EQUIPMENT GROUNDING CONDUCTORS SHALL BE SIZED EQUAL TO THE CIRCUIT CONDUCTORS, EXCEPT WHERE SHOWN OTHERWISE ON THE PLANS.
- 5.03 ALL GROUNDING TYPE HUBS AND CONNECTORS IN A BOX OR ENCLOSURE SHALL BE BONDED TOGETHER AND TO THE BOX OR ENCLOSURE WITH A STRANDED COPPER BONDING JUMPER SIZED EQUAL TO THE LARGEST EQUIPMENT GROUNDING CONDUCTOR IN THE BOX OR ENCLOSURE.
- 5.04 ALL GROUNDING CONDUCTORS WITHIN AN EQUIPMENT ENCLOSURE OR TERMINAL CABINET SHALL BE TERMINATED ON A COMMON UNINSULATED GROUNDING BAR

6. REMOVALS, SALVAGE, & DISPOSAL

- THE CONTRACTOR SHALL REMOVE CCTV CONTROL BOX AND CAMERA FROM 6.01 THE PROJECT SITE AND DELIVER IT TO THE DISTRICT 9 TRAFFIC UNIT. CCTV CONTROL BOX AND CAMERA SHALL BE HANDLED WITH CARE AT ALL TIMES TO AVOID DAMAGE
- THE EXISTING STRUCTURAL STEEL COATING CONTAINS LEAD. THE 6.02 CONTRACTOR SHALL TAKE APPROPRIATE PRECUATIONS TO DEAL WITH THE PRESENCE OF LEAD ON THIS PROJECT.
- 6.03 PERFORM ALL REMOVALS IN SUCH A MANNER AS TO AVOID DAMAGE TO EXISTING EQUIPMENT AND/OR CONDUCTORS WHICH ARE TO REMAIN.
- 6.04 THE CONTRACTOR SHALL PERFORM THE WORK WITH CARE, SO THAT ANY STRUCTURAL MATERIALS WHICH ARE TO REMAIN IN PLACE SHALL NOT BE DAMAGED. IF THE CONTRACTOR DAMAGES ANY STRUCTURAL MATERIALS WHICH ARE TO REMAIN IN PLACE, THE DAMAGED MATERIALS SHALL BE REPLACED OR REPAIRED IN A MANNER SATISFACTORY TO THE ENGINEER AT THE EXPENSE OF THE CONTRACTOR.

7. WORKING DRAWINGS & SUBMITTALS

- 7.01 THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL REQUIRED WORKING DRAWINGS AND PRODUCT SUBMITTALS, WORKING IN COOPERATION AND COMMUNICATION WITH THE ENGINEER IN ORDER TO PROVIDE A COMPLETE, FUNCTIONAL, AND SAFE INSTALLATION IN ACCORDANCE WITH THE REQUIREMENTS AND INTENTS OF THESE PLANS, THE SPECIFICATIONS, THE CONTRACT DOCUMENTS, AND ALL APPLICABLE CODES.
- ALL REQUIRED WORKING DRAWINGS AND PRODUCT DESCRIPTIVE DATA SHALL 7.02 BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL. SUCH ITEMS MUST BE APPROVED BY THE ENGINEER PRIOR TO PURCHASE OF THE RELATED MATERIALS AND/OR UNDERTAKING OF THE RELATED WORK.
- 7.03 SUBMIT COMPLETE DESCRIPTIVE DATA FOR EACH ITEM OF EQUIPMENT AND MATERIAL
- WIRING DIAGRAMS AND SCHEMATICS PROVIDED IN THESE PLANS ARE FOR 7.04 ILLUSTRATING MINIMUM REQUIREMENTS ONLY. THE CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR DEVELOPING ALL REQUIRED DIAGRAMS, INCLUDING FIELD INTERCONNECTION DIAGRAMS.
- WIRING LAYOUTS AND TABULATIONS PROVIDED IN THESE PLANS ARE FOR 7.05 ILLUSTRATING MINIMUM REQUIREMENTS ONLY. THE CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR DEVELOPING THE ACTUAL LAYOUTS AND TABULATIONS.
- THE CONTRACTOR SHALL DEVELOP ALL FINAL MOUNTING DETAILS FOR ALL 7.06 EQUIPMENT. SUCH DETAILS SHALL COMPLY WITH TYPICAL DETAILS SHOWN ON THESE PLANS.

8. MAINTAINING NAVIGATIONAL OBSTRUCTION LIGHTS IN OPERATION DURING CONSTRUCTION THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER 8.01 CALENDAR MONTH AS MAINTENANCE OF NAVIGATION LIGHTING SYSTEM. WATERWAY AND AERIAL OBSTRUCTION LIGHTING SHALL BE OPERATIONAL AT ALL TIMES. UNITED STATES COAST GUARD SHALL BE NOTIFIED OF ALL WORK TWO WEEKS PRIOR TO START OF CONSTRUCTION.

8.02

8.03

THE CONTRACTOR SHALL SUBMIT HIS PROPOSED PLAN/METHODOLOGY 8 04 TO MAINTAIN THE NAVIGATIONAL AND AERIAL OBSTRUCTION LIGHTING IN SERVICE TO THE ENGINEER FOR APPROVAL PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES.

8.05 COAST GUARD.

> MR. ERIC WASHBURN, COAST GUARD 8TH DISTRICT 1222 SPRUCE STREET, ST. LOUIS, MO 63013 (314) 269-2378 EMERGENCY CONTACT U.S.C.G. 24-HOUR WATCH CENTER

(502) 779-5422



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		DRAWN -	R.L. REED	REVISED -	STATE OF ILLINOIS			S.N.	. 002-0	02
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THE ABOVE REQUIREMENT MAY BE ACCOMPLISHED BY ANY OF THE FOLLOWING METHODS: PROVIDING TEMPORARY WIRING AND EQUIPMENT AS A WORK AROUND CONDUIT/WIRING AND EQUIPMENT TAKEN OUT OF SERVICE, PROVIDING TEMPORARY POWER SOURCES (GENERATORS AND/OR BATTERIES), PROVIDING TEMPORARY SOLAR POWERED SELF-CONTAINED NAVIGATION AND AERIAL LIGHTS.

ANY TEMPORARY NAVIGATIONAL AND AERIAL OBSTRUCTION LIGHTS UTILIZED SHALL SATISFY THE REQUIREMENTS OF THE UNITED STATES COAST GUARD AND THE FEDERAL AVIATION ADMINISTRATION, RESPECTIVELY.

THE CONTRACTOR SHALL ENSURE THAT NO INFRINGEMENT OF THE NAVIGATIONAL UNDERCLEARANCE OR CHANNEL OCCURS WHILE DOING WORK. ANY INFRINGEMENT SHALL BE APPROVED BY THE UNITED STATES

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	84500120	REMOVAL OF ELECTRIC SERVICE	NSTALLATION	EACH	1	1
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	84301200	REMOVAL OF NAVIGATION OBSTRUC	TION WARNING LIGHTING SYSTEM	L SUM	1	1
	82700100	TRANSFORMER, GENERAL PURPOSE		EACH	1	1
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	82600105	NAVIGATION OBSTRUCTION LIGHT	NG CONTROLLER	EACH	1	1
	82200605	WATERWAY OBSTRUCTION WARNING	LUMINAIRE, LED	EACH	16	16
	81702130	ELECTRIC CABLE IN CONDUIT, 60	OV (XLP-TYPE USE) 1/C NO. 6	FOOT	100	100
	81702110	ELECTRIC CABLE IN CONDUIT, 60	OV (XLP-TYPE USE) 1/C NO. 10	FOOT	18100	18100
	81300915	JUNCTION BOX, STAINLESS STEEL	., ATTACHED TO STRUCTURE, 20" X 20" X 8"	EACH	1	1
				5401		
	81300530	JUNCTION BOX, STAINLESS STEEL	, ATTACHED TO STRUCTURE, 12" X 10" X 6"	EACH	5	5
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	81300320	JUNCTION BOX, STAINLESS STEEL	, ATTACHED TO STRUCTURE, 8" X 8" X 6"	EACH	4	4
	· · · · · · · · · · · · · · · · · · ·					
	81100200	CONDUIT ATTACHED TO STRUCTURE	, 3/4" DIA., GALVANIZED STEEL	FOOT	4100	4100
	67100100	MOBILIZATION		LSUM	1	1
	67000400	ENGINEER'S FIELD OFFICE, TYPE	E A	CAL MO	4	4
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MODIESKI-MASTERS

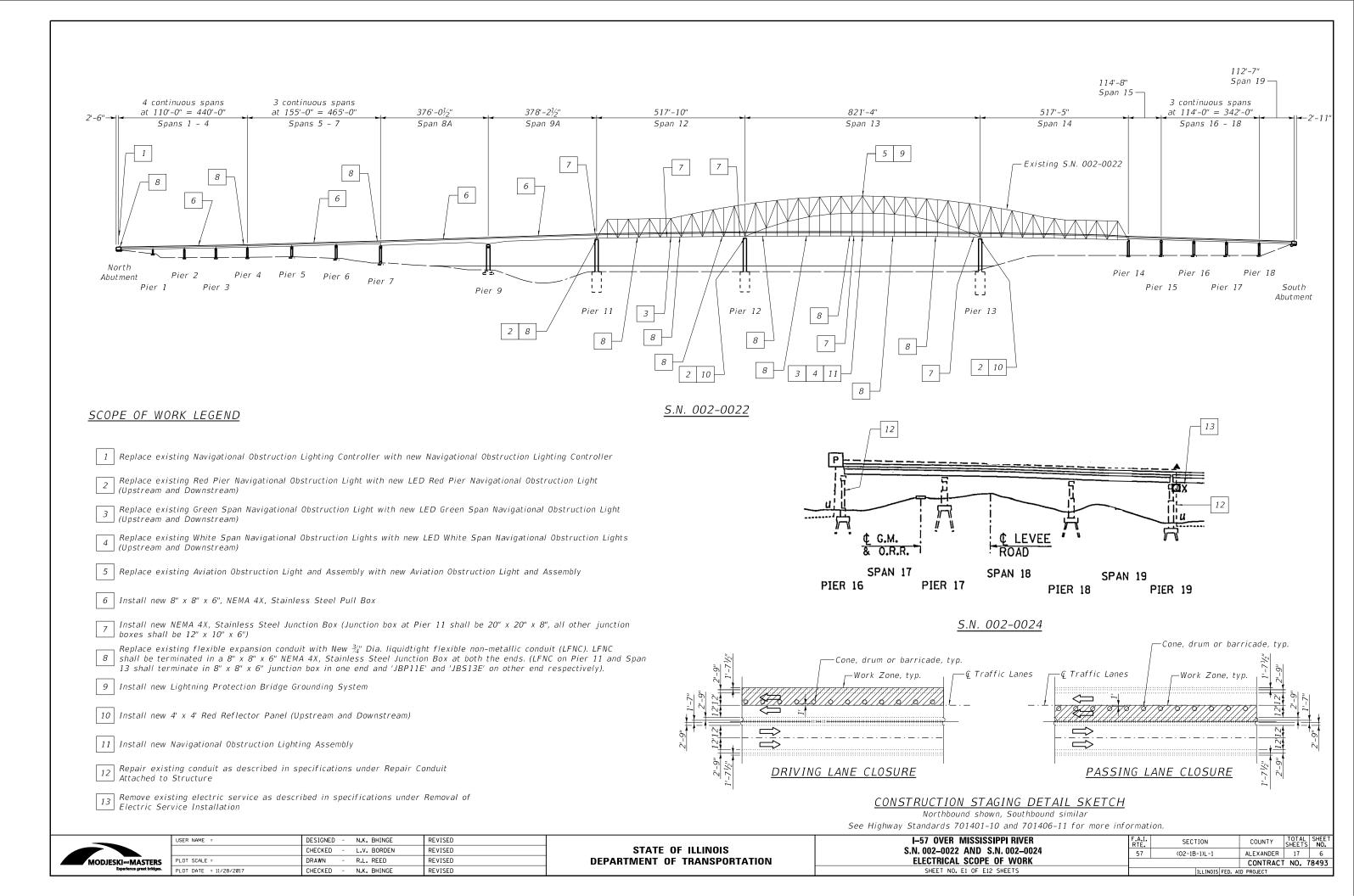
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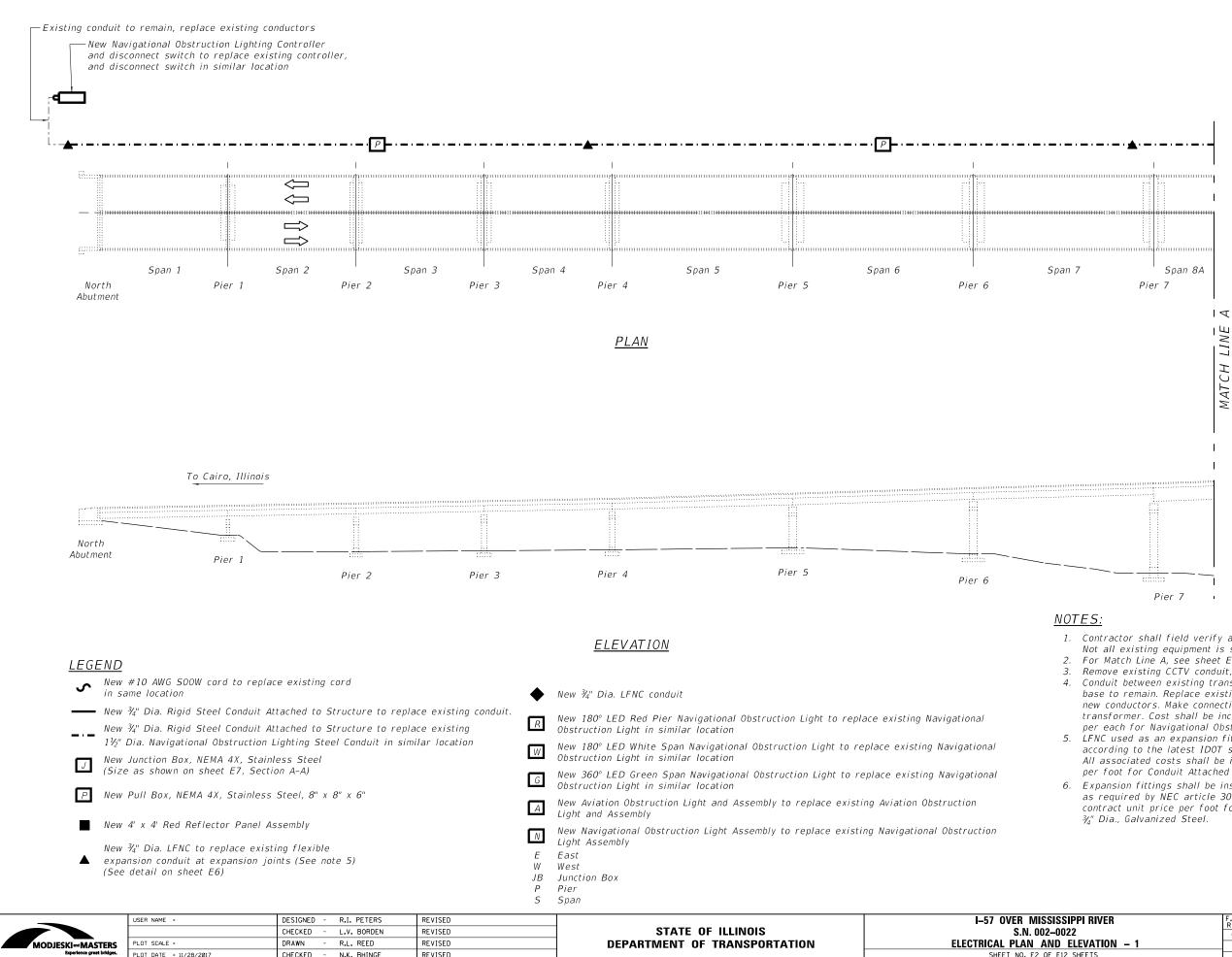
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x7015005	CHANGEABLE MESSAGE 51GN	CAL DAY	28	28
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X8260112	MAINTENANCE OF NAVIGATION LIGHTING SYSTEM	CAL MO	4	4
X8220010	AVIATION OBSTRUCTION WARNING LUMINAIRE, SPECIAL	EACH	(***	erd
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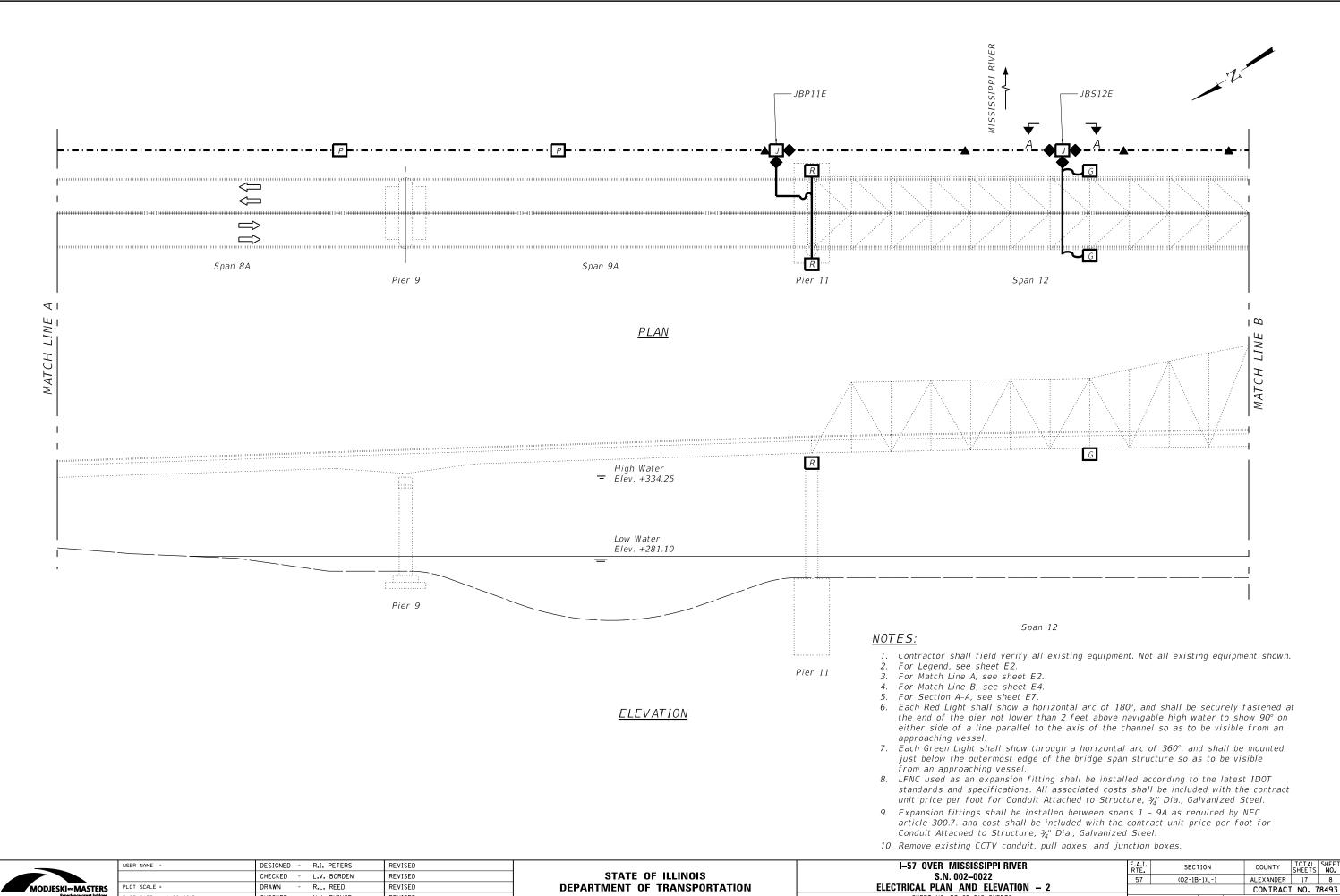
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- 1. Contractor shall field verify all existing equipment.
- Not all existing equipment is shown on these plans.
- 2. For Match Line A, see sheet E3.
- Remove existing CCTV conduit, pull boxes, and junction boxes. 4. Conduit between existing transformer and existing controller
- base to remain. Replace existing conductors in this conduit with new conductors. Make connections in existing base and existing transformer. Cost shall be included with the contract unit price per each for Navigational Obstruction Lighting Controller. 5. LFNC used as an expansion fitting shall be installed
- according to the latest IDOT standards and specifications. All associated costs shall be included with the contract unit price per foot for Conduit Attached to Structure, 3/4" Dia., Galvanized Steel.
- 6. Expansion fittings shall be installed between spans 1 9A as required by NEC article 300.7 and cost shall be included with the contract unit price per foot for Conduit Attached to Structure,

	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0022	57	(02-1B-1)L-1	ALEXANDER	17	7
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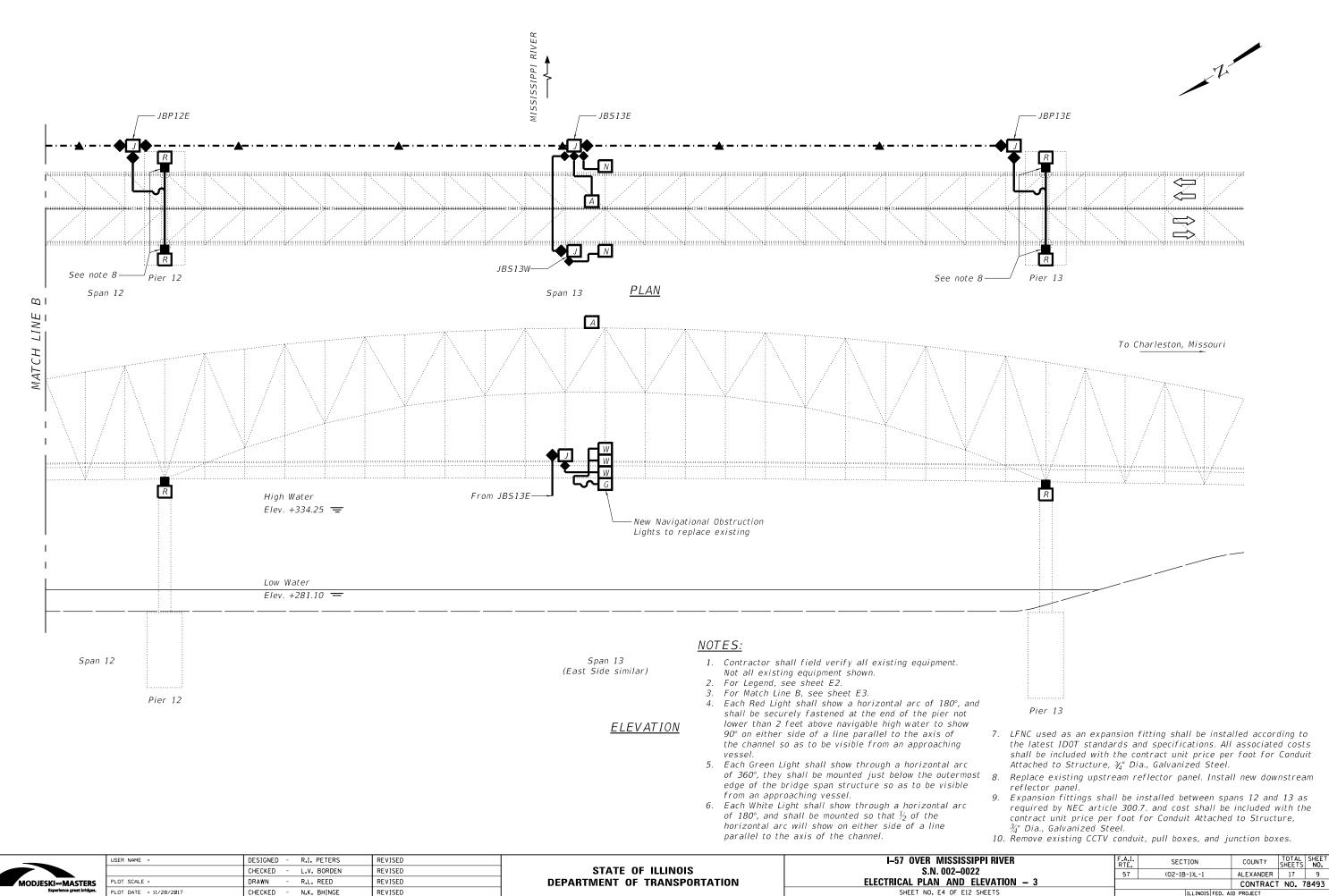


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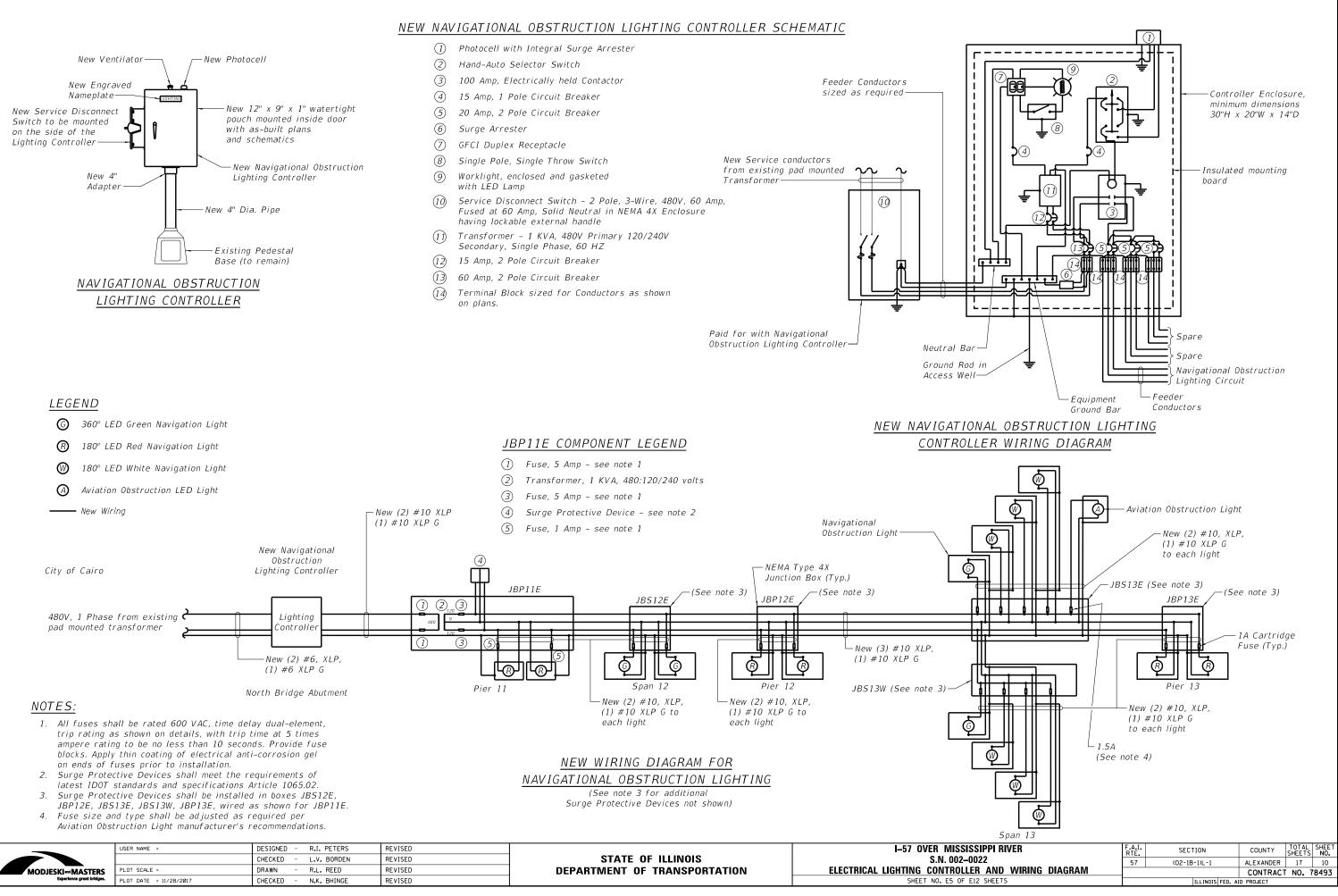
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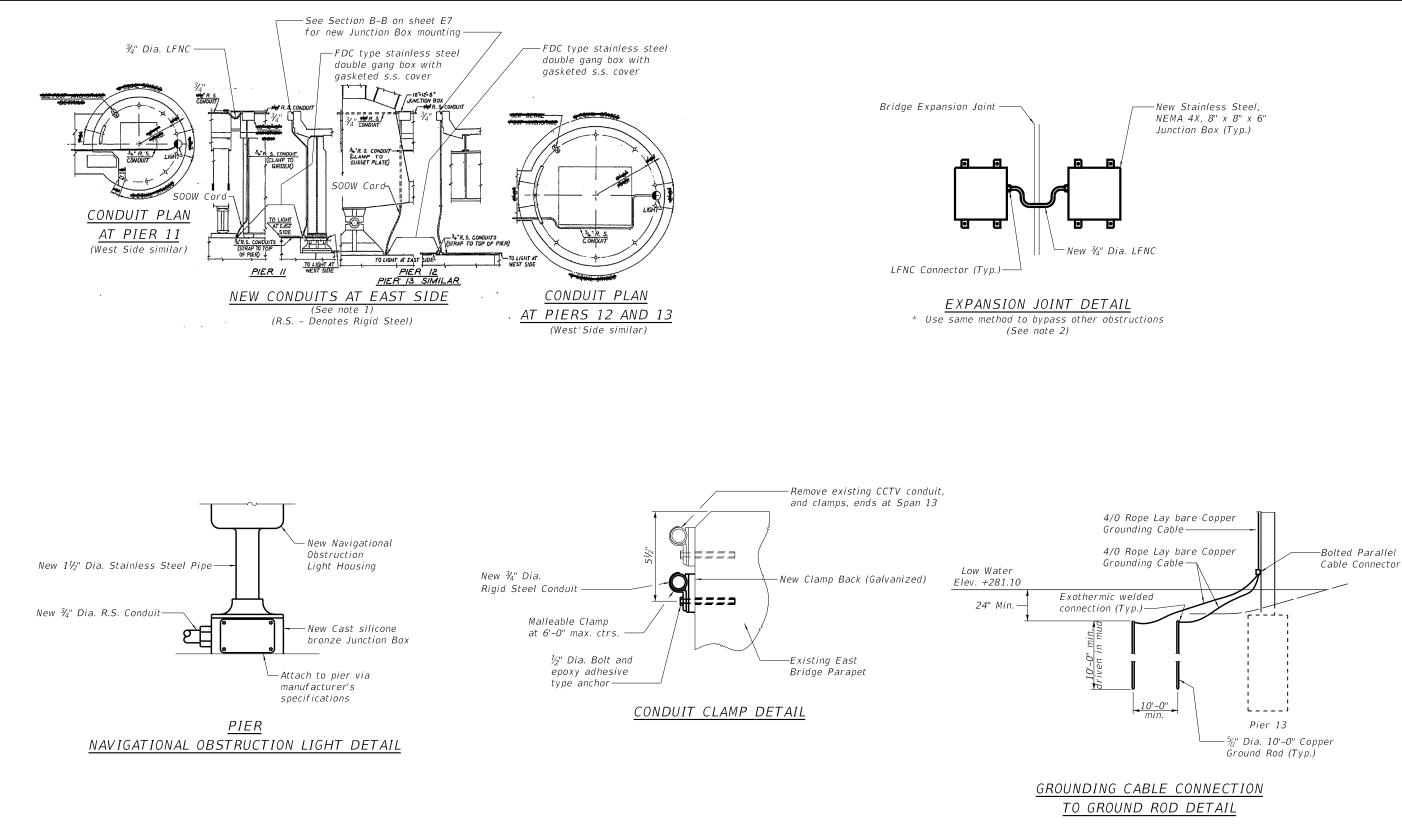
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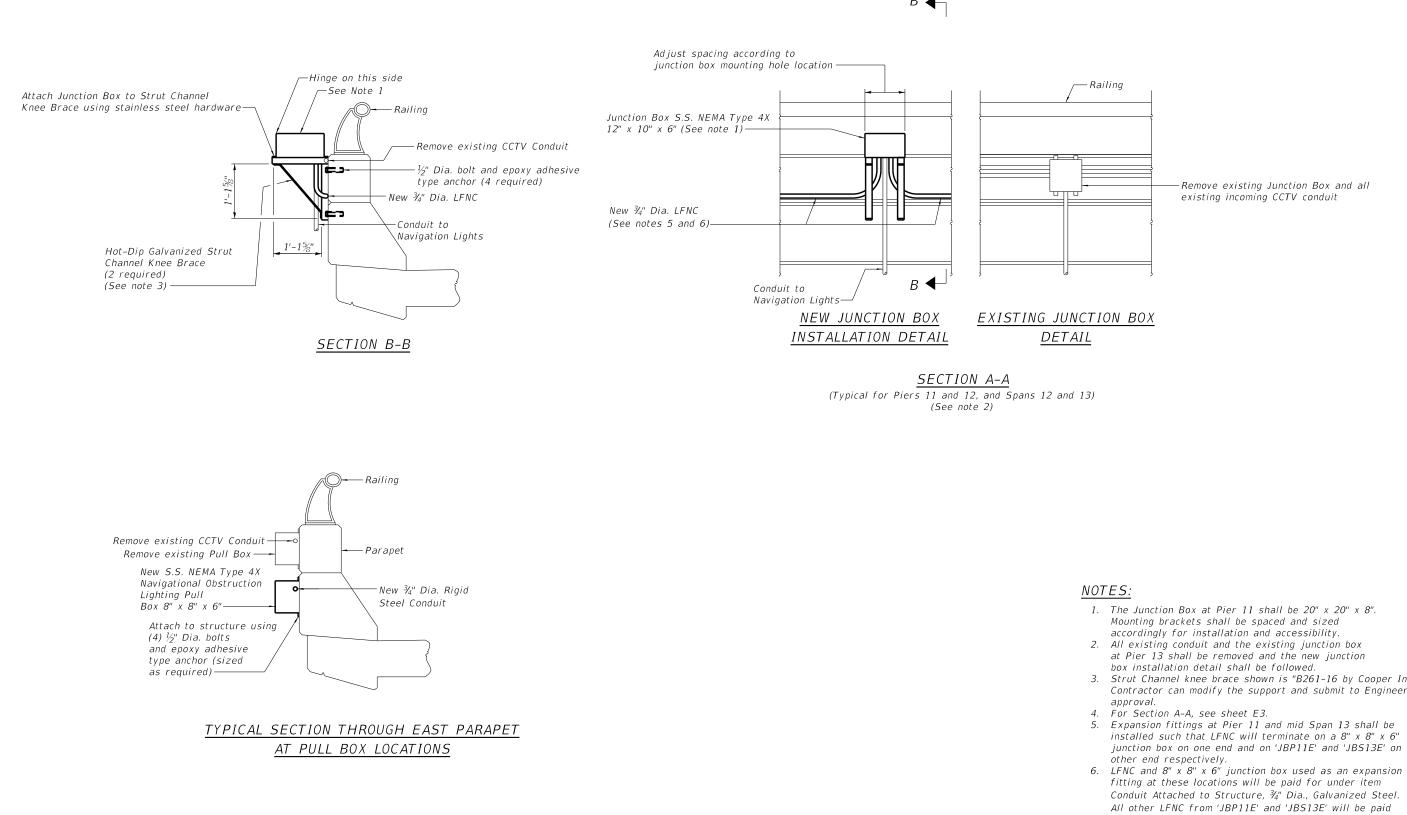


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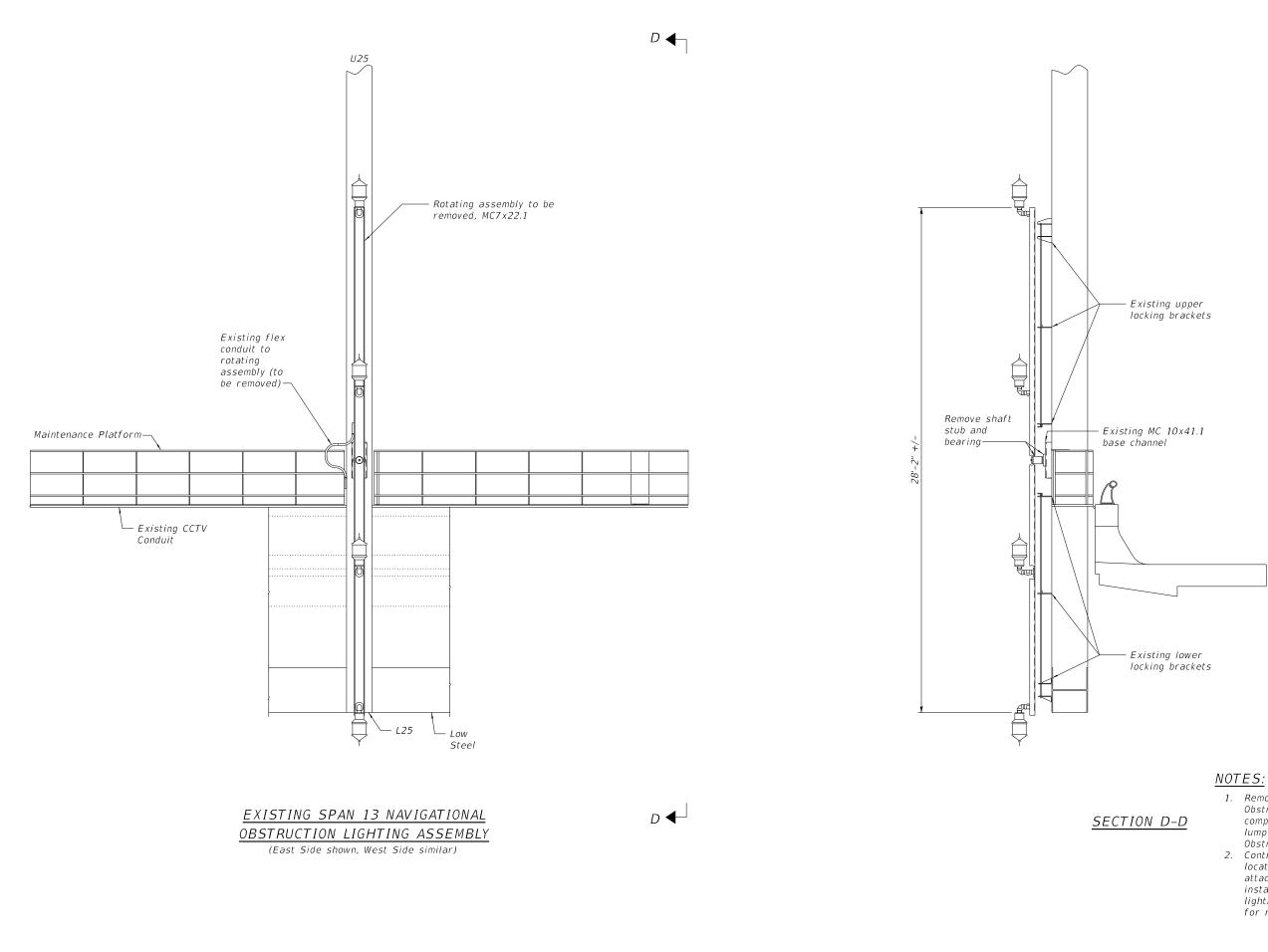
- 1. Detail shown for conduit routing only. See sheet E7 for junction box sizes and mounting details.
- 2. LFNC used as an expansion fitting shall be installed according to the latest IDOT Standards and specifications. All associated costs shall be included with the contract unit price per foot for Conduit Attached to Structure, $\frac{3}{4}$ " Dia., Galvanized Steel.

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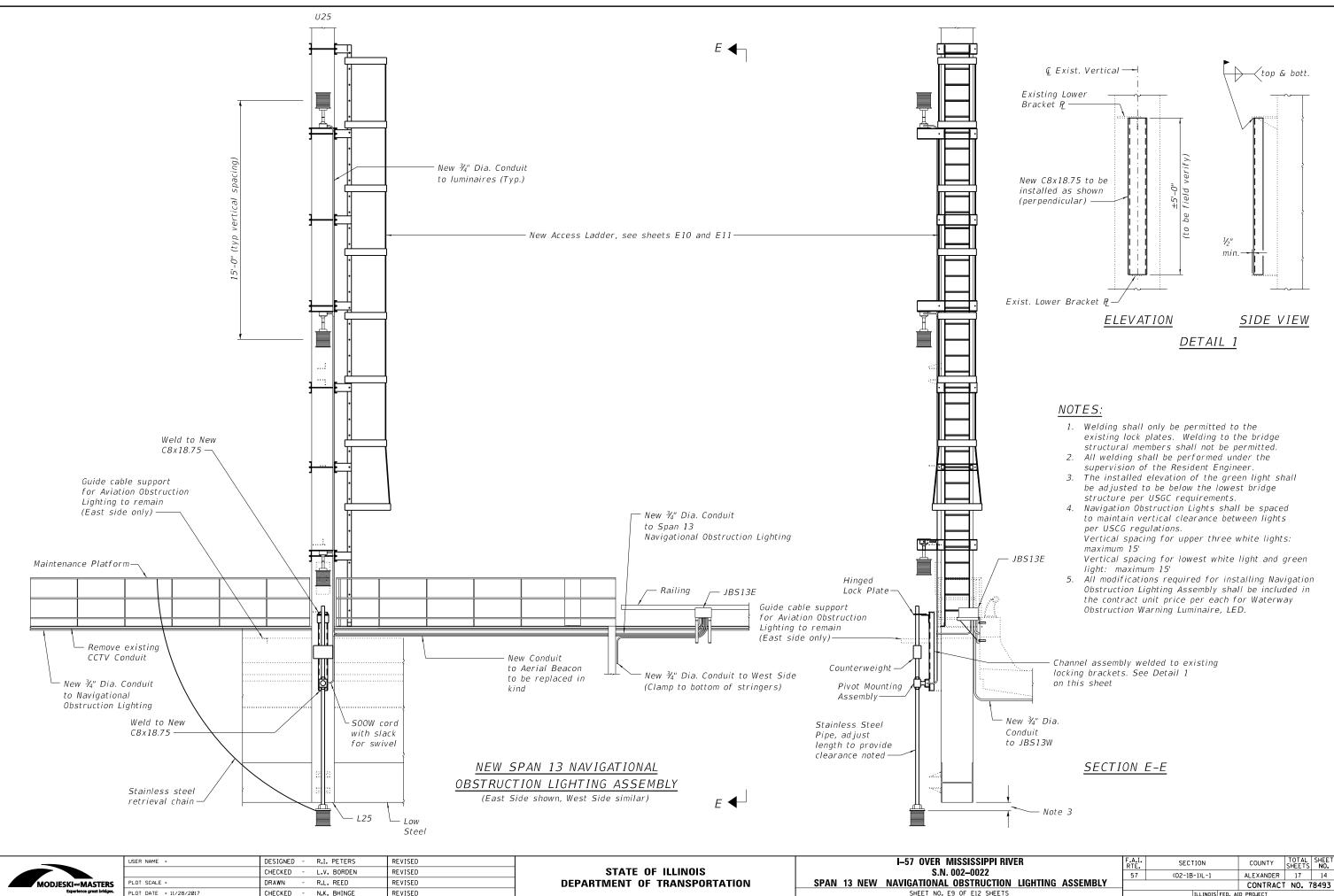
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	PLOT SCALE = PLOT DATE = 11/28/2017	DRAWN - R.L. REED CHECKED - N.K. BHINGE	REVISED REVISED		ELECTRICAL MISCELLANEOUS DETAILS – 2 SHEET NO. E7 OF E12 SHEETS		ILLINOIS FED. A	CONTRACT NO	NO. 78493

- 3. Strut Channel knee brace shown is "B261-16 by Cooper Industries". Contractor can modify the support and submit to Engineer for
- 5. Expansion fittings at Pier 11 and mid Span 13 shall be installed such that LFNC will terminate on a 8" x 8" x 6" junction box on one end and on 'JBP11E' and 'JBS13E' on
- Conduit Attached to Structure, $\frac{3}{4}$ " Dia., Galvanized Steel. All other LFNC from 'JBP11E' and 'JBS13E' will be paid under Junction Box, Stainless Steel, Attached to Structure, 20" x 20" x 8" and Junction Box, Stainless Steel, Attached to Structure, 12" x 10" x 6" respectively.

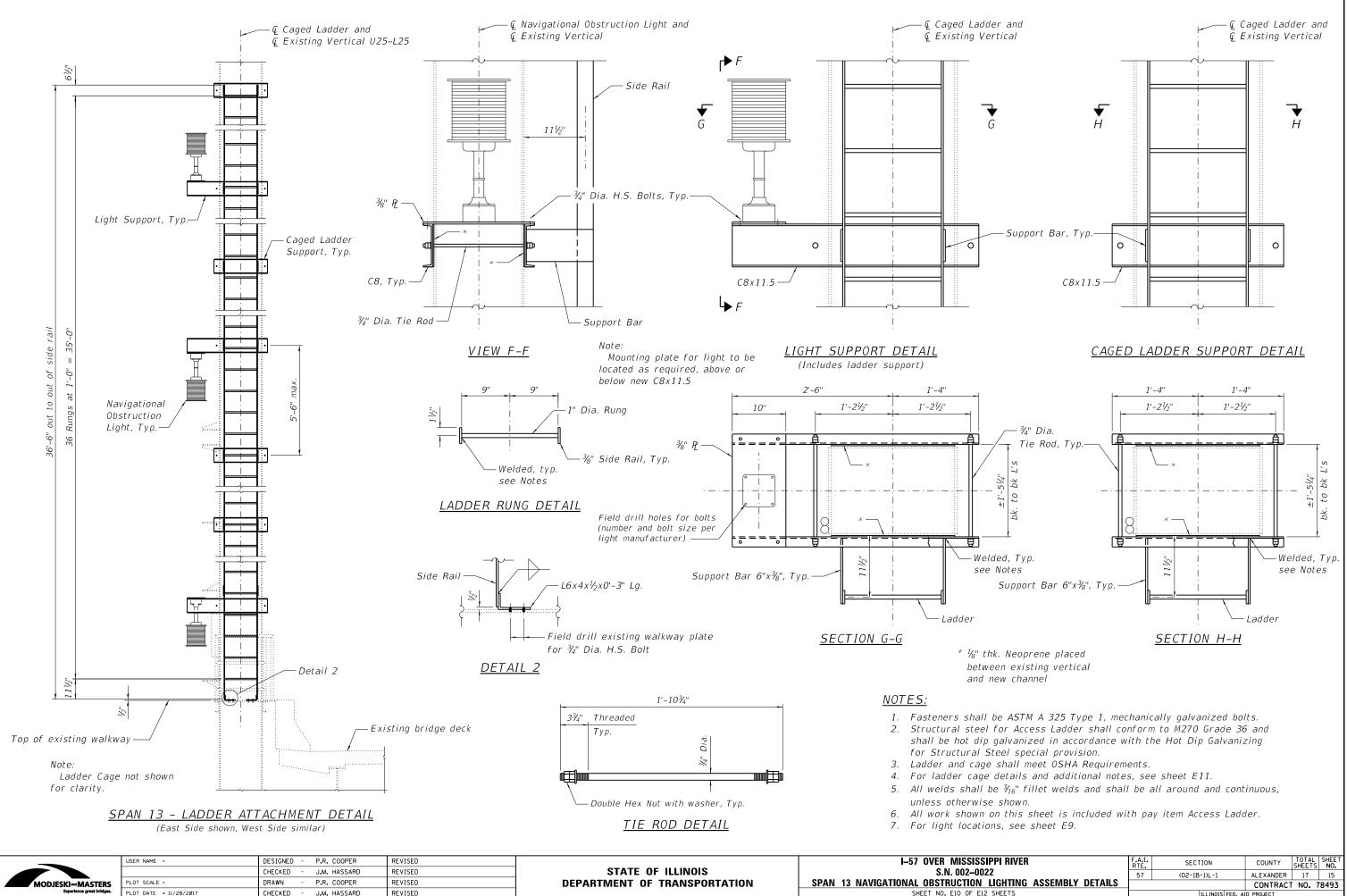


-	USER NAME =	DESIGNED - R.I. PETERS	REVISED		I-57 OVER MISSISSIPPI RIVER	F.A.I.	SECTION	COUNTY TOTAL SHEETS	HEET
		CHECKED - L.V. BORDEN	REVISED	STATE OF ILLINOIS	S.N. 002–0022	57 (0	02-1B-1)L-1	ALEXANDER 17	13
MODJESKI MASTERS	PLOT SCALE =	DRAWN - R.L. REED	REVISED	DEPARTMENT OF TRANSPORTATION	SPAN 13 EXISTING NAVIGATIONAL OBSTRUCTION LIGHTING ASSEMBLY			CONTRACT NO. 784	193
Experience great bridges.	PLOT DATE = 11/28/2017	CHECKED - N.K. BHINGE	REVISED		SHEET NO. E8 OF E12 SHEETS		ILLINOIS FED. AI	D PROJECT	

1. Removal of existing Span 13 Navigational Obstruction Light Assembly and associated components shall be included in the contract lump sum price for Removal of Navigation Contractor shall field verify dimensions and locations of existing locking brackets and attachment channel. Coordinate with the installation of new navigation obstruction lighting for possible interferences and for reuse of components.

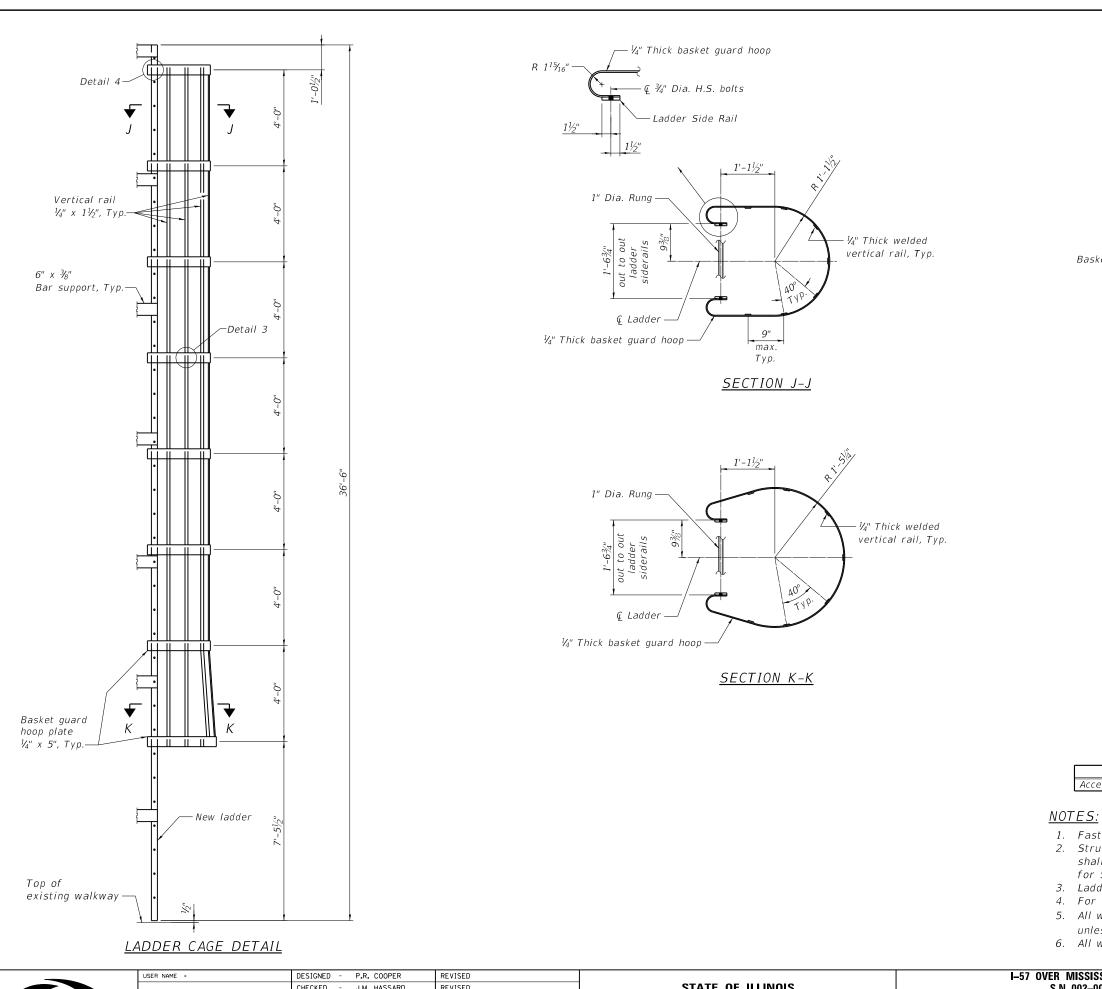


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RUCTION L	IGHTING.	ASSEMBLY					CON
12 SHEETS				ILLINOIS	FED.	AID	PROJE

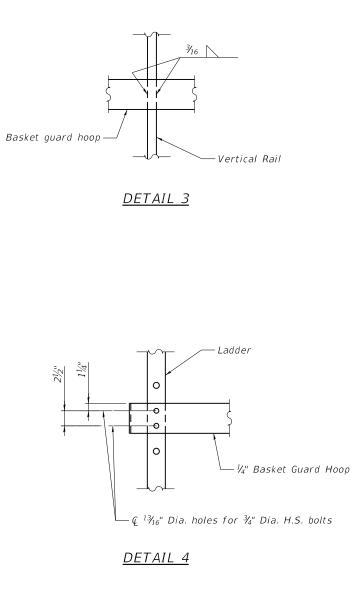


SHEET NO. E10 OF

	51	(02-IB-DL-I		ALEXANDER	17	
IN LIGHTING ASSEMBLY DETAILS				CONTRACT	NO.	78
E12 SHEETS		ILLINOIS	FED. A	ID PROJECT		



	USER NAME =	DESIGNED - P.R. COOPER	REVISED		I–57 OVER MISSISSIPPI RIVER	F.A.I. RTE.	SECTION	COUNTY TOTAL SHEET SHEETS NO.
		CHECKED - J.M. HASSARD	REVISED	STATE OF ILLINOIS	S.N. 002–0022	57	(02-1B-1)L-1	ALEXANDER 17 16
MODJESKI	PLOT SCALE =	DRAWN - A.E. COOK	REVISED	DEPARTMENT OF TRANSPORTATION	SPAN 13 LADDER ATTACHMENT DETAILS			CONTRACT NO. 78493
Experience great bridges.	PLOT DATE = 11/28/2017	CHECKED - J.M. HASSARD	REVISED		SHEET NO. E11 OF E12 SHEETS		ILLINOIS FED.	AID PROJECT



BILL OF MATERIAL

Item	Unit	Total
ess Ladder	Each	2

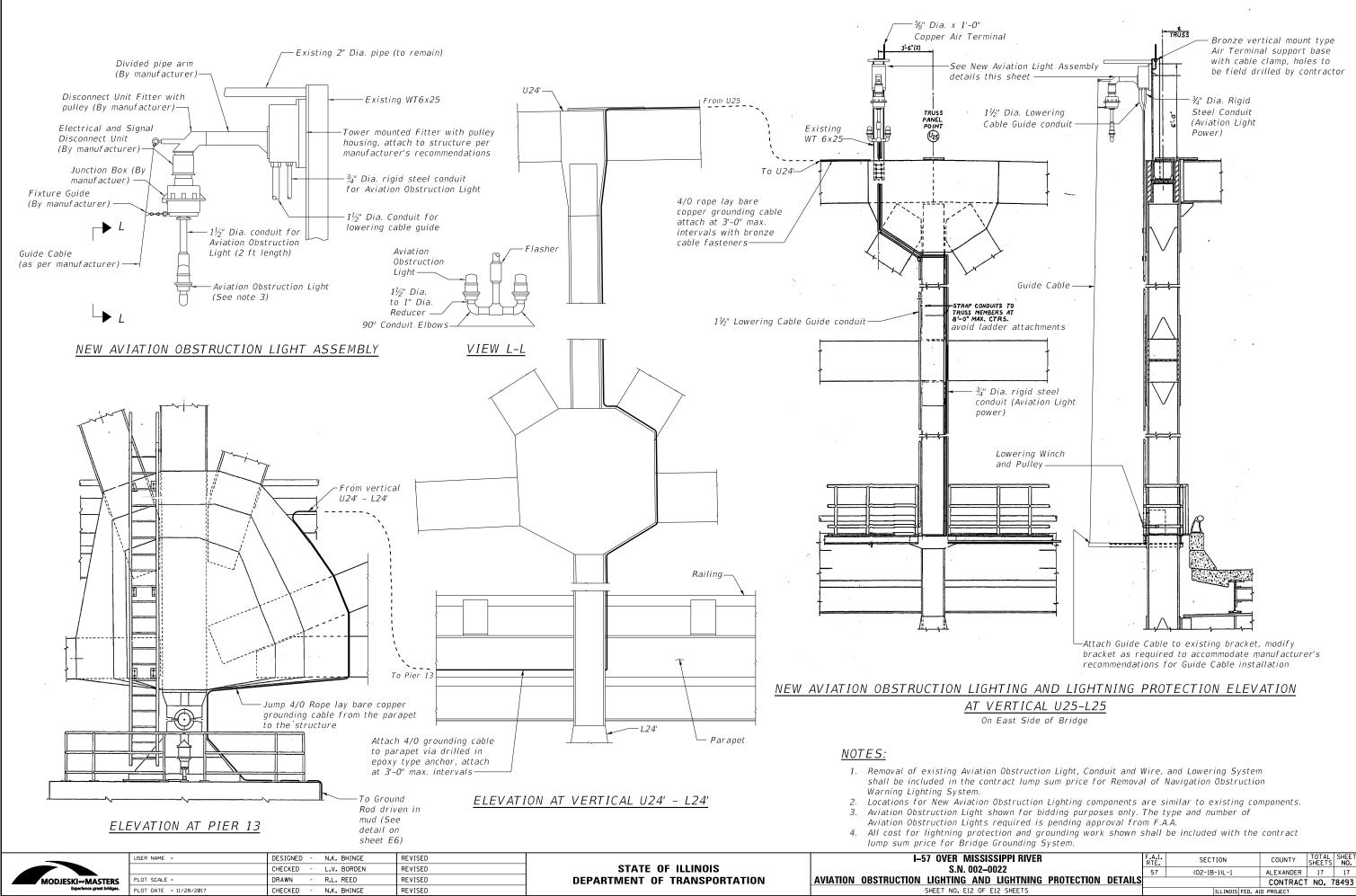
 Fasteners shall be ASTM A 325 Type 1, mechanically galvanized bolts.
 Structural steel for Access Ladder shall conform to M270 Grade 36 and shall be hot dip galvanized in accordance with the Hot Dip Galvanizing for Structural Steel special provision.

3. Ladder and cage shall meet OSHA Requirements.

4. For ladder details and additional notes, see sheet E10.

5. All welds shall be $\frac{3}{16}$ fillet welds and shall be all around and continuous, unless otherwise shown.

6. All work shown on this sheet is included with pay item Access Ladder.



SSIPPI RIVER	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0022	57	(02-1B-1)L-1	ALEXANDER	17	17
LIGHTNING PROTECTION DETAILS			CONTRACT	NO. 7	8493
E12 SHEETS	ILLINOIS FED. AID PROJECT				