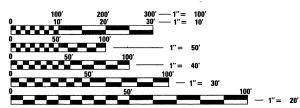
FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROJECT LOCATED IN THE VILLAGE OF GLENWOOD

IDOT STANDARDS

STD. NO. DESCRIPTION

701101-02 MULTI-LANE OFF ROAD OPERATION TRAFFIC CONTROL DEVICES



ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123 OR 811

PROJECT MANAGER - KENNETH GLASSMAN

CONTRACT NO. 60F83

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

DISTRICT 1

HIGHWAY SAFETY IMPROVEMENT PROJECT LIGHTING MODERNIZATION

> ILL-394 (BISHOP FORD FWY) FROM THORNTON LANSING RD. TO GLENWOOD DYER RD. **GLENWOOD, ILLINOIS** PROJECT: HSIP-0332 (093)

F.A.P. ROUTE 332

C-91-244-09

SECTION J₀B

2008-081 L D-91-244-09

E 170TH ST

COOK COUNTY



START OF PROJECT THORNTON LANSING RD.

END OF PROJECT GLENWOOD DYER RD.

FOR DRAWINGS 1 TO 18

2008-081 L СООК ILLINOIS CONTRACT NO. 60F83 FED. ROAD DIST. NO.

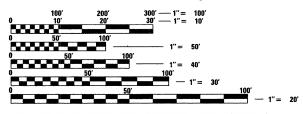
D-91-244-09



JACOBS

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** DIVISION OF HIGHWAYS SUBMITTED MARCH 9, 20 09 Deputy DIRECTOR OF HIGHWAYS, REGION ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS



CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS

PROJECT ENGINEER - LIGHTING: CECIL STOVALL

 \circ

TITLE SHEET

2

INDEX OF SHEETS & SUMMARY OF QUANTITIES

GENERAL NOTES & LEGEND

4-13 PROPOSED LIGHTING PLAN

ONE LINE DIAGRAM

ELECTRICAL DETAILS

16-18 DISTRICT 1 STANDARD ELECTRICAL DETAILS

SUMMARY OF QUANTITIES

	<u>SUMMARY OF QUANTITIES</u>		90%. FED. 10%. STAT
CODE	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY Y030-IE
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	9
67100100	MOBILIZATION	L SUM	1
81018700	CONDUIT PUSHED, 3" DIA., GALVANIZED STEEL	FOOT	253
81100800	CONDUIT ATTACHED TO STRUCTURE, 3" DIA., GALVANIZED STEEL	FOOT	60
81300550	JUNCTION BOX, STAINLESS STEEL, ATTACHED IN STRUCTURE, 12" X 12" X 6"	EACH	4
82102310	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 310 WATT	EACH	98
83600400	POLE FOUNDATION, METAL	EACH	98
83800205	BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	98
X0323574	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	9
X0324116	BUCK-BOOST TRANSFORMER, 216 VOLT	EACH	4
X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1
X8950130	MODIFY EXISTING LIGHTING CONTROLLER	EACH	2
XX006937	GROUND ROD, 5/8" DIA. X 10 FT.	EACH	2
X0326412	INSTALL UNDERGROUND RACEWAY - SPECIAL	FOOT	22,783
X0326411	EQUIPMENT CABINET AND PEDESTAL MOUNTED BASE	EACH	2
X0326369	LIGHT POLE, ALUMINUM, 47.5F,M.H., 15 FT. MAST ARM, INSTALL ONLY, FROM STATE STOCK	EACH	98
X0326370	MAST ARM, ALUMINUM, 15 FT. (FURNISHED)	EACH	49
816032.03	UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND, (EPR-TYPE RHW), 1 1/2" DIA. POLYETHYLENE	FOOT	28,040

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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

INDEX OF SHEETS & SUMMARY OF QUANTITIES SCALE: NONE SHEET NO. OF SHEETS STA.

TO STA.

ONE NORTH FRANKLIN CHICAGO IL, 60606 312-251-3000

JACOBS

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE DETAILS IN THE PLANS, THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS, AND THE LATEST EDITION OF THE FOLLOWING STATE OF ILLINOIS SPECIFICATIONS: *THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION* (REFERED TO AS THE *STANDARD SPECIFICATIONS*), THE *SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS*, THE *MANUAL OF TEST PROCEDURES FOR MATERIALS*. THE STREET LIGHTING IMPROVEMENTS SHALL BE INSTALLED IN ACCORDANCE WITH AMERICAN NATIONAL STANDARD PRACTICE FOR ROADWAY LIGHTING (ANSI/IES RP8 LATEST EDITION) AND THE NATIONAL ELECTRICAL CODE (NEC. NFPA. 70, LATEST EDITION).
- 2. THE LOCATIONS OF PUBLIC OR PRIVATE UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND IDOT DOES NOT GUARANTEE THEIR ACCURACY, THE CONTRACTOR SHALL HAVE THE RESPECTIVE UTILITY COMPANIES FIELD LOCATE ALL THEIR FACILITIES PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL ALSO VERIFY THE DEPTHS OF THE EXISTING UTILITIES IF NECESSARY. ANY RELOCATION OR LOWERING OF UTILITIES SHALL BE COORDINATED BY THE CONTRACTOR.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR*S EXPENSE TO THE SATISFACTION OF THE ENGINEER OR CITY.
- 4. THE CONTRACTOR SHALL NOTIFY THE CITY PUBLIC WORKS ADMINISTRATOR AT LEAST 48 HOURS IN ADVANCE OF BEGINNING WORK TO OBTAIN CITY UTILITY LOCATIONS AND SHALL COORDINATE ALL CONSTRUCTION OPERATIONS WITH THE ENGINEER.
- THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL SECTION OR SUBSECTION MONUMENTS OR PROPERTY OR REFERENCE MARKERS AS APPROVED BY THE CITY OF GLENWOOD DIRECTOR OF PUBLIC WORKS OR DESIGNATED PROJECT MANAGER. UNTIL THE OWNERS, HIS AGENT OR AN AUTHORIZED SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATIONS.
- ACCESS TO PRIVATE DRIVEWAYS SHALL BE PROVIDED AT ALL TIMES EXCEPT DURING ACTUAL CONSTRUCTION ADJACENT THERE TO.
- THE CONTRACTOR SHALL PROVIDE WARRANTIES OR GUARANTEES PROVIDING FOR SATISFACTORY IN-SERVICE OPERATION OF THE ELECTRICAL EQUIPMENT AND RELATED COMPONENTS OPERATION OF THE ELECTRICAL EQUIPMENT AND RELATED COMPONENTS AS PER I.D.OT. STANDARDS.
- 8. ANY DAMAGE TO PAVEMENT. SIDEWALK. CURB. OR ANY OTHER PORTION OF THE ROADWAY NOT SPECIFICALLY TO BE REMOVED AND REPLACED SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST AND REPLACEMENT SHALL MEET THE APPROVAL OF THE ENGINEER.

- 9. ALL LIGHT POLE FOUNDATIONS WILL BE HELIX TYPE, UNLESS NOTED OTHERWISE ON PLANS, SEE DETAIL BE-305.
- 10. ALL CONDUITS UNDER ROADWAYS AND DRIVEWAYS SHALL BE PUSHED. CONDUIT LENGTHS SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE ACTUAL DISTANCE REQUIREMENTS IN THE FIELD.
- 11. THE CONTRACTOR SHALL MAKE SPECIAL NOTE OF THE REQUIREMENTS FOR WIRE MARKERS AND SHALL TAG ALL WIRE MARKERS AND SHALL TAG ALL WIRING ACCORDINGLY.
- 12. THE CITY AND ENGINEER SHALL BE NOTIFIED 48 HOURS PRIOR TO COMMENCING EACH
- 13. THE CONTRACTOR WILL BE REIMBURSED BY THIS CONTRACT TO THE EXACT AMOUNT OF MONEY AS BILLED BY COM-ED FOR THEIR SERVICES. AND NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR ANY INCIDENTAL MATERIALS AND LABOR REQUIRED TO FULFILL THE REQUIREMENTS AS SHOWN ON THE PLANS AND SPECIFIED HEREIN. SEE SECTION 109.05 *STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE
- 14. ALL ELECTRICAL DEVICES AND MATERIALS SHALL BE U/L LISTED WHERE APPLICABLE.
- 15. CONTRACTOR IS RESPONSIBLE FOR DECOMMISSIONING EXISTING ISOLATED INTERSECTION LIGHTING PER DIRECTIONS OF THESE PLANS AND SHALL BE REMOVED IN A PROFESSIONAL WORKMANSHIP LIKE MANNER.
- 16. CONTACT JULIE AT 1-800-892-0123 FOR UTILITY LOCATES PRIOR TO BEGINNING AND EXCAVATION WORK, WORK PROACTIVELY WITH UTILITY COMPANIES FOR THE PURPOSE OF DAMAGE PREVENTION.
- 17. ALL POLES AND MAST ARMS WILL BE SUPPLIED FROM IDOT STATE STOCK UNLESS NOTED OTHERWISE.
- 18. ALL POLES SHALL BE POSITIONED 20 FT. OFFSET FROM EDGE OF THE TRAVELED PAVEMENT UNLESS NOTED OTHERWISE.

LEGEND

PROPOSED	<u>EXISTING</u>	
	Е	UNIT DUCT. 600V, 3-1/C NO.2, 1/C NO.4 GROUND (EPR-TYPE RHW), 1-1/2" DIA, POLYETHYLENE UNLESS OTHERWISE NOTED IN DRAWINGS.
E	[<u>-</u>	3" RGS PUSHED CONDUIT UNLESS NOTED OTHERWISE.
	E	EXPOSED CONDUIT. SIZE AS INDICATED.
	\boxtimes	LIGHTING CONTROLLER, RADIO CONTROL, DUPLEX CONSOLE TYPE WITH SCADA.
A	Δ	UTILITY SERVICE CONNECTION. POLE MOUNTED TRANSFORMER 240/480 VOLT, SINGLE PHASE, 3 WIRE.
- ¤	o—Œ	ALUMINUM LIGHT POLE. 47.5' MOUNTING HEIGHT WITH 15' MAST ARM AND 310 W H.P.S M-C-III 240 VOLTS LUMINAIRE AND HELIX FOUNDATION. SEE IDOT STANDARD DETAIL BE-400.
	o—(R)	EXISTING LIGHT POLE TO BE REMOVED.
<u> </u>	<u> </u>	GROUND ROD, 5/8" DIA. x 10 FT.
H	Ή _ε	ELECTRICAL HANDHOLE.
**	11 (E)	HIGH MAST LIGHTING. ↑ =LUMINAIRE HEAD.
ф	ф	UTILITY POLE.
STA XXXX+X.XX		CIRCUIT NUMBER AND STATION REFERENCE: B=CONTROLLER DESIGNATION, ××=CIRCUIT NUMBER STA=STATION NUMBER.
	A	UTILITY AERIAL LINES.
		RIGHT OF WAY LINE.
		BUCK-BOOST TRANSFORMER
J	IJ _E	ELECTRICAL JUNCTION BOX

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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

PROPOSED LIGHTING PLAN **GENERAL NOTES, LEGEND** SHEET NO. OF SHEETS STA.

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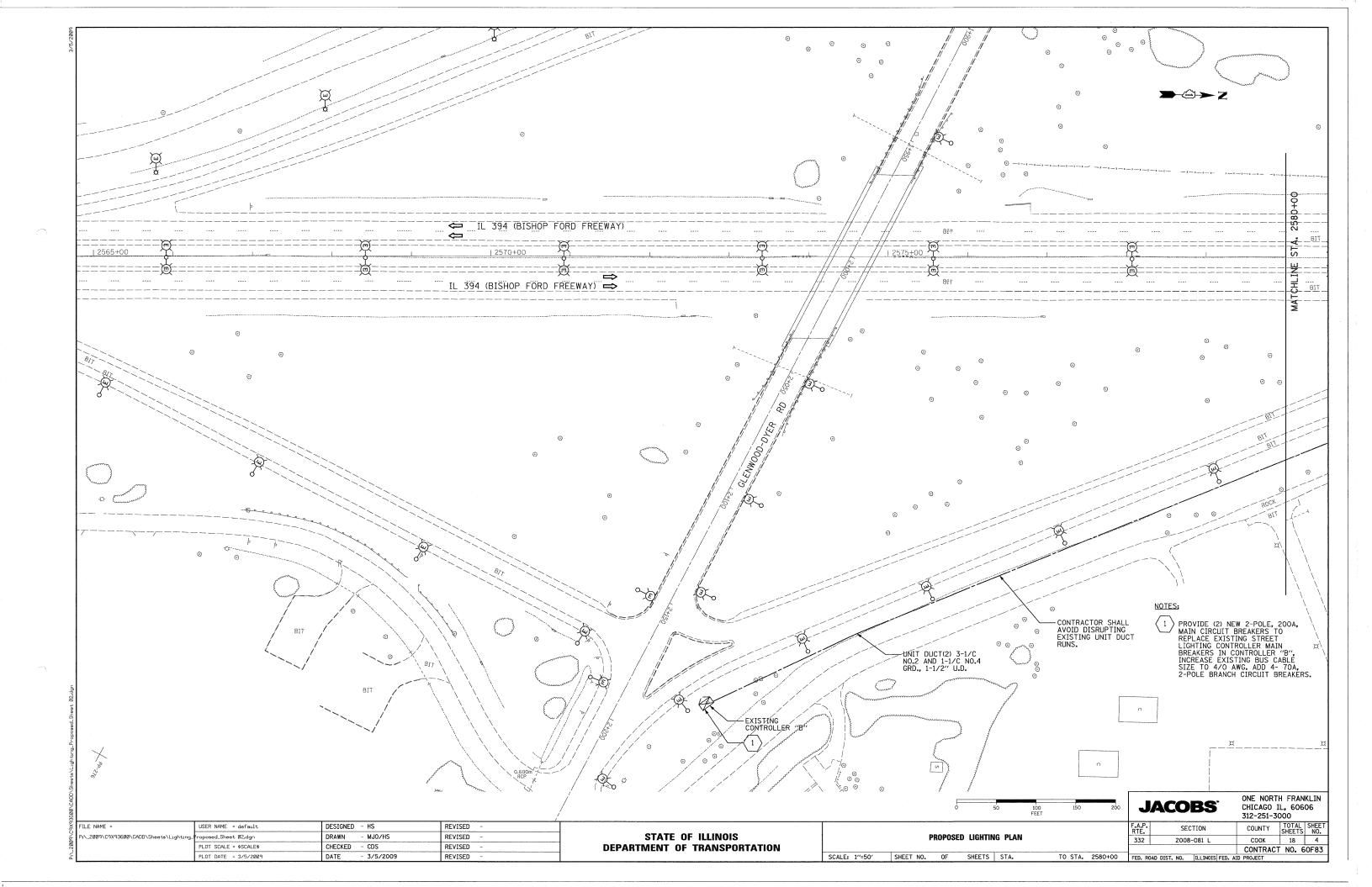
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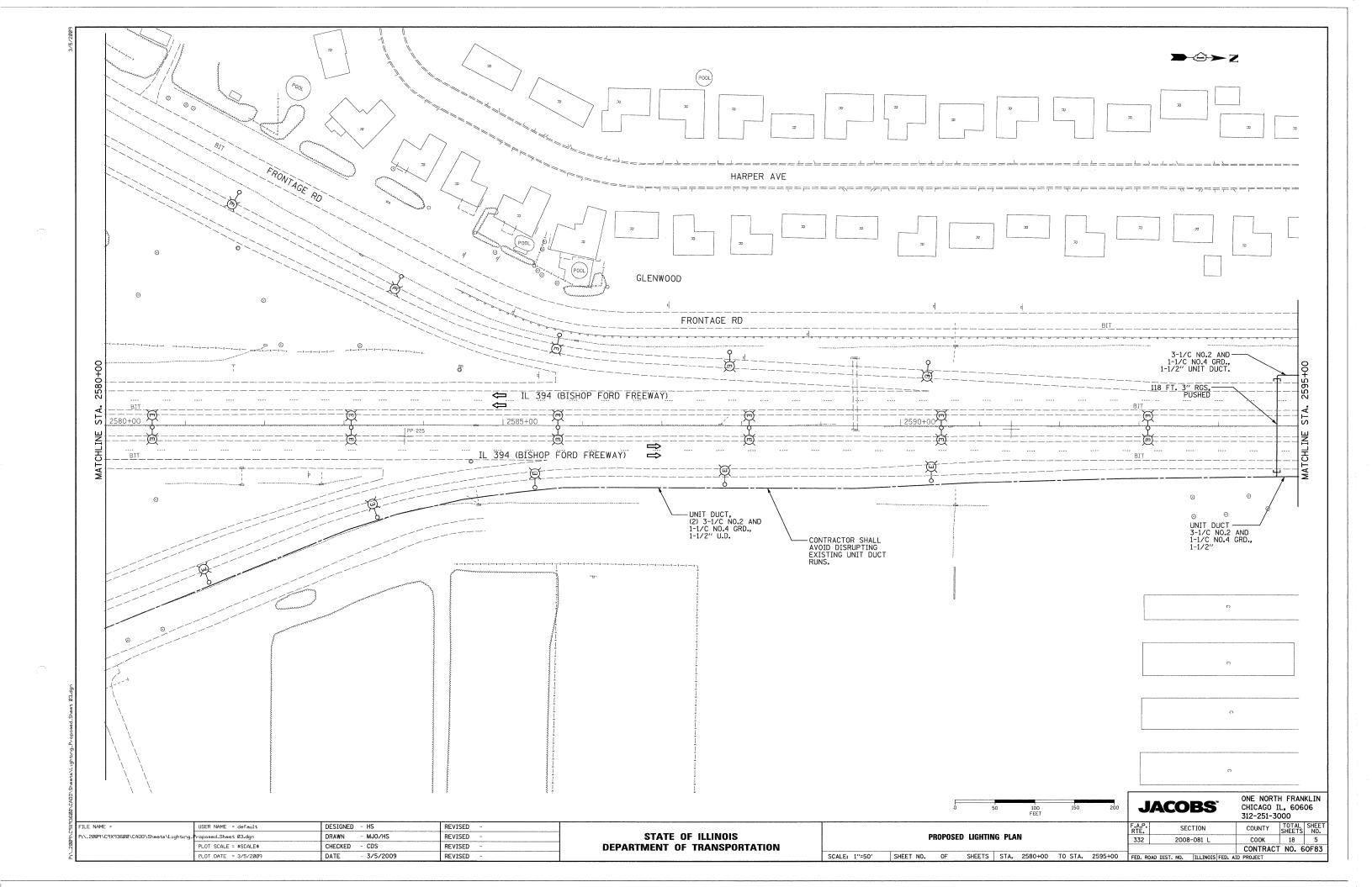
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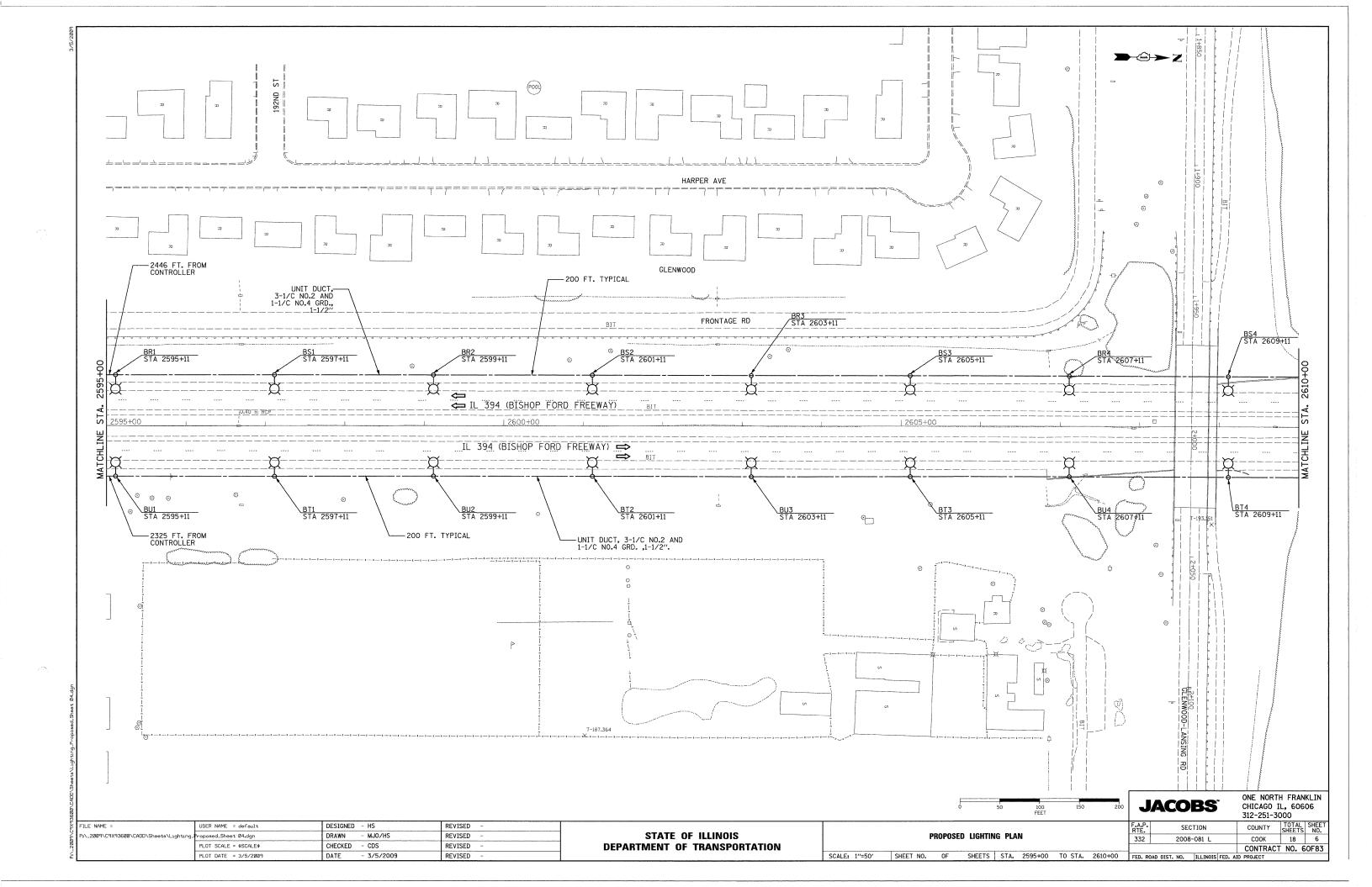
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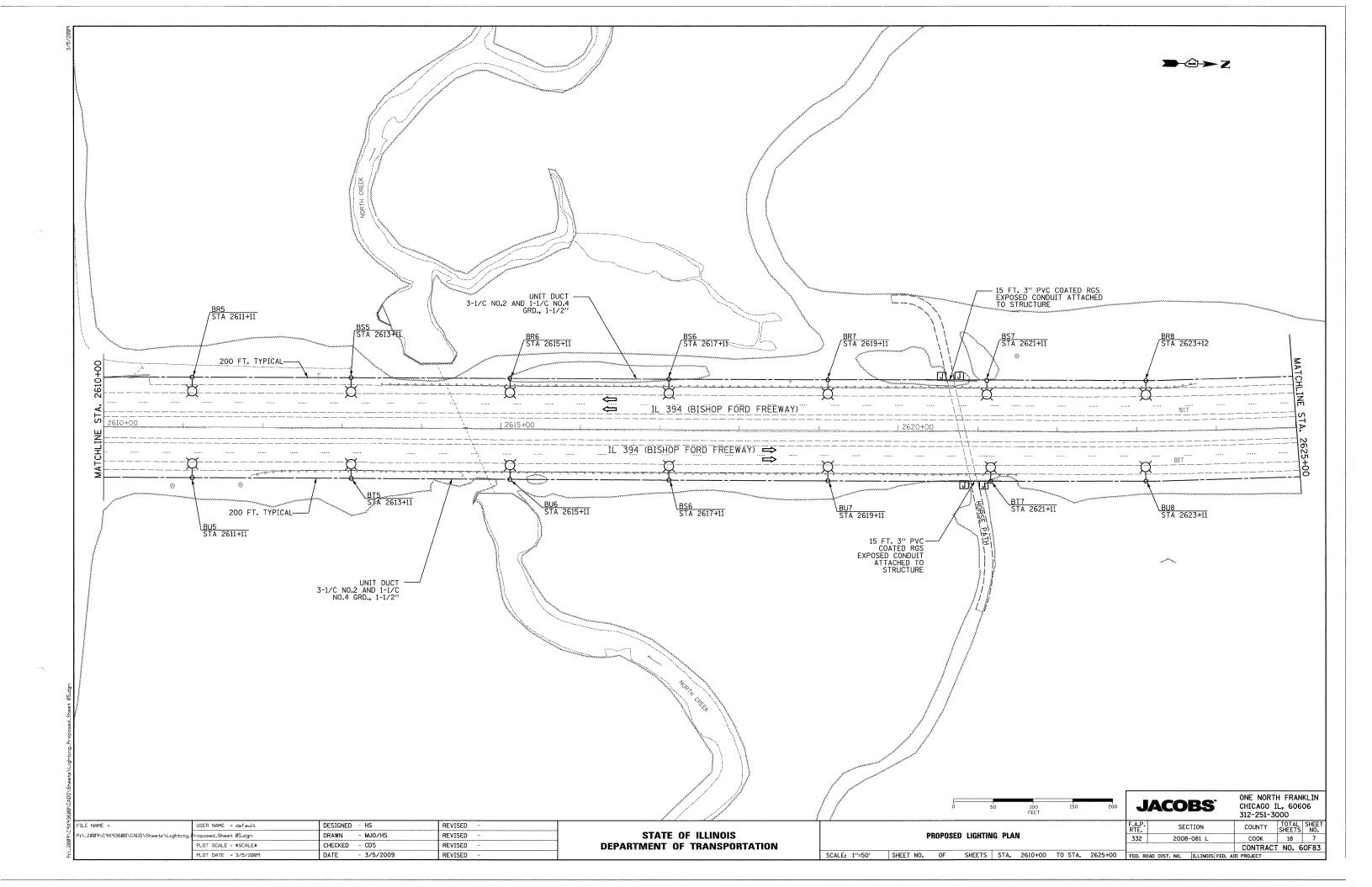
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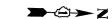
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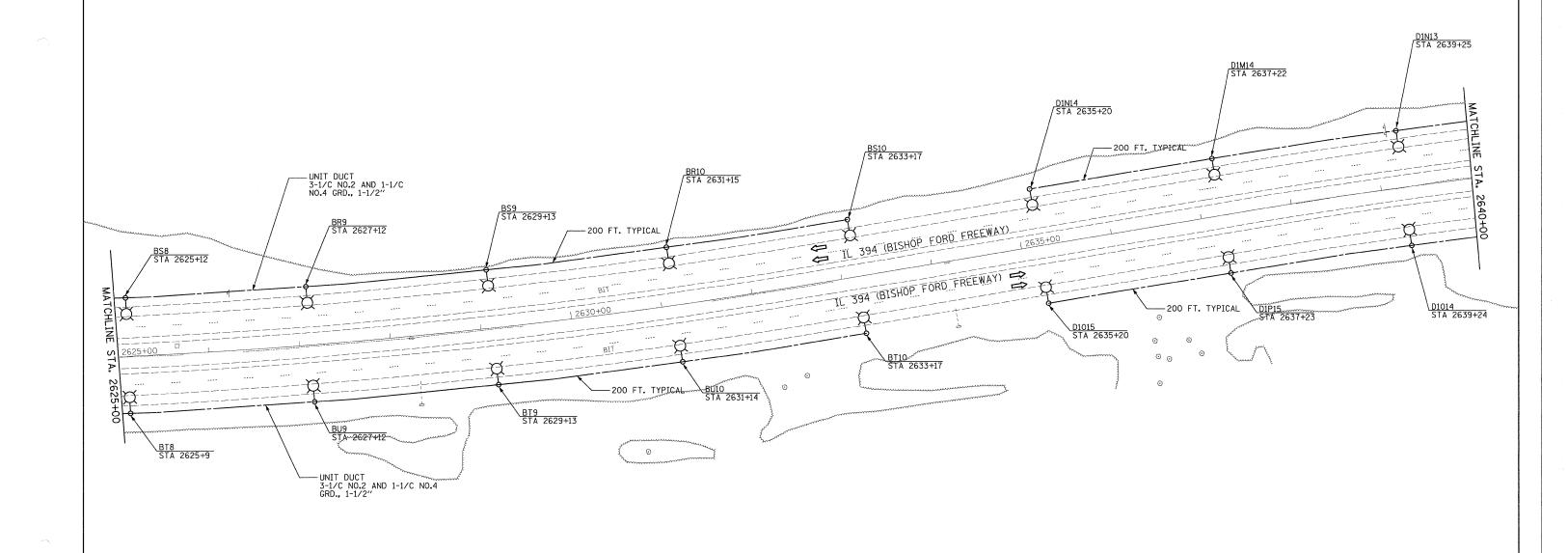










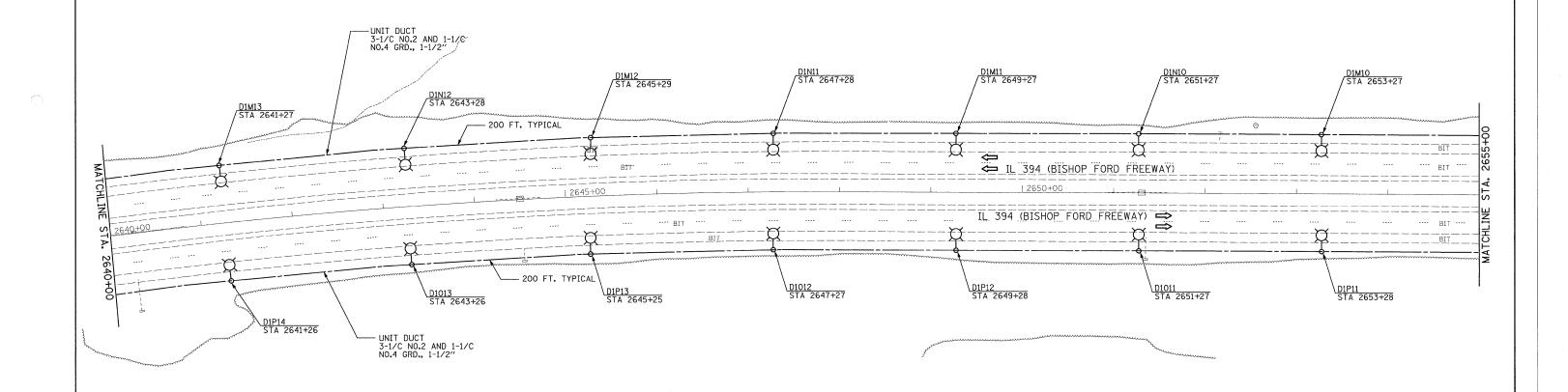


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ONE NORTH FRANKLIN CHICAGO IL, 60606 312-251-3000 **JACOBS**





ONE NORTH FRANKLIN CHICAGO IL, 60606 312-251-3000 **JACOBS**

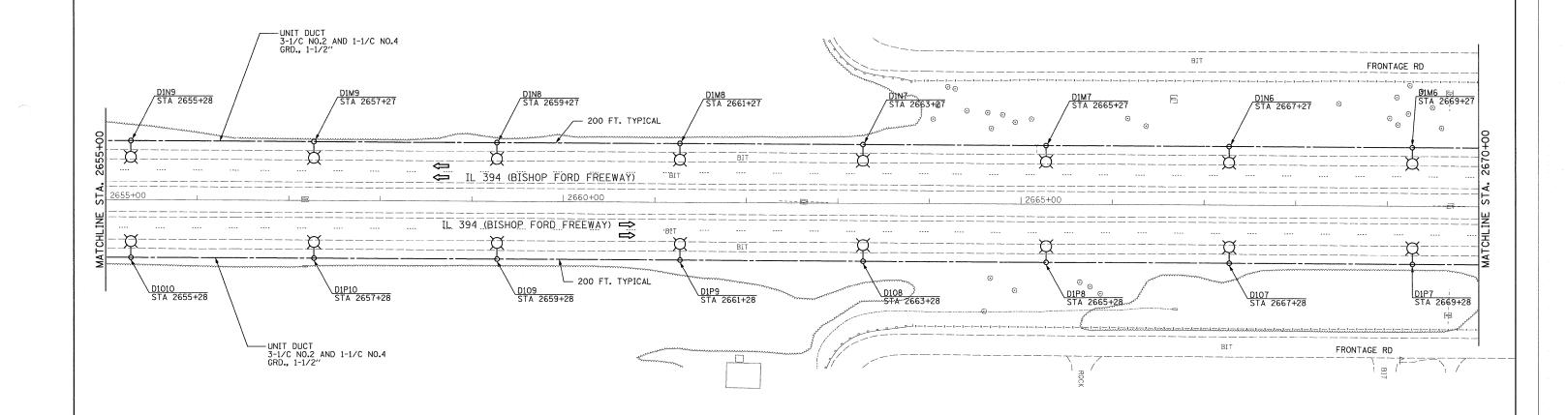
DEPARTMENT OF TRANSPORTATION

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STATE OF ILLINOIS

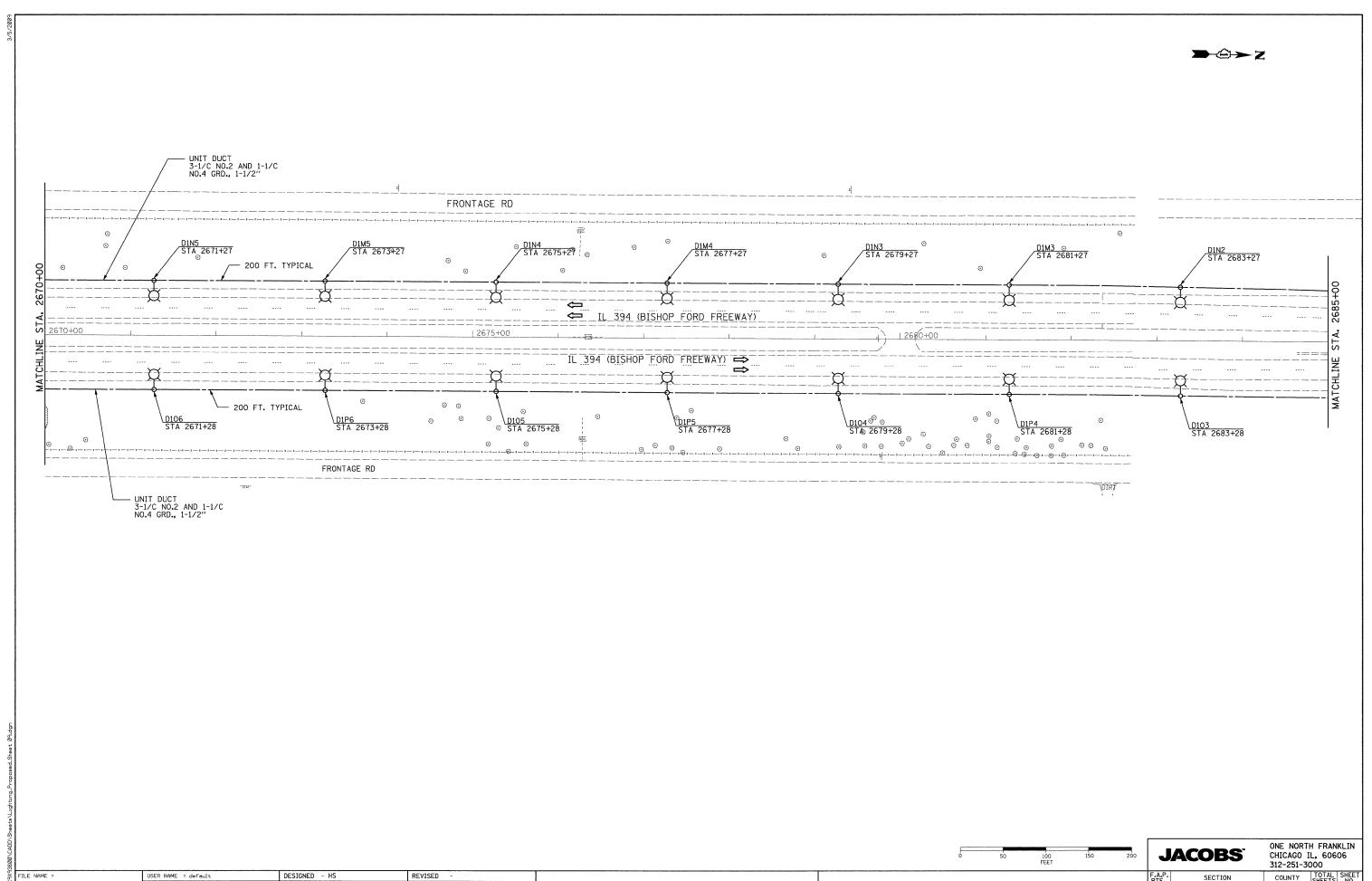


ONE NORTH FRANKLIN CHICAGO IL, 60606 312-251-3000 **JACOBS**

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

| CONTRACT | NO. 60F83 | STAL 2655+00 | TO STAL 2670+00 | FED. ROAD DIST. NO. | ILLINOIS | FED. AID | PROJECT | NO. 60F83 | NO. | NO

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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

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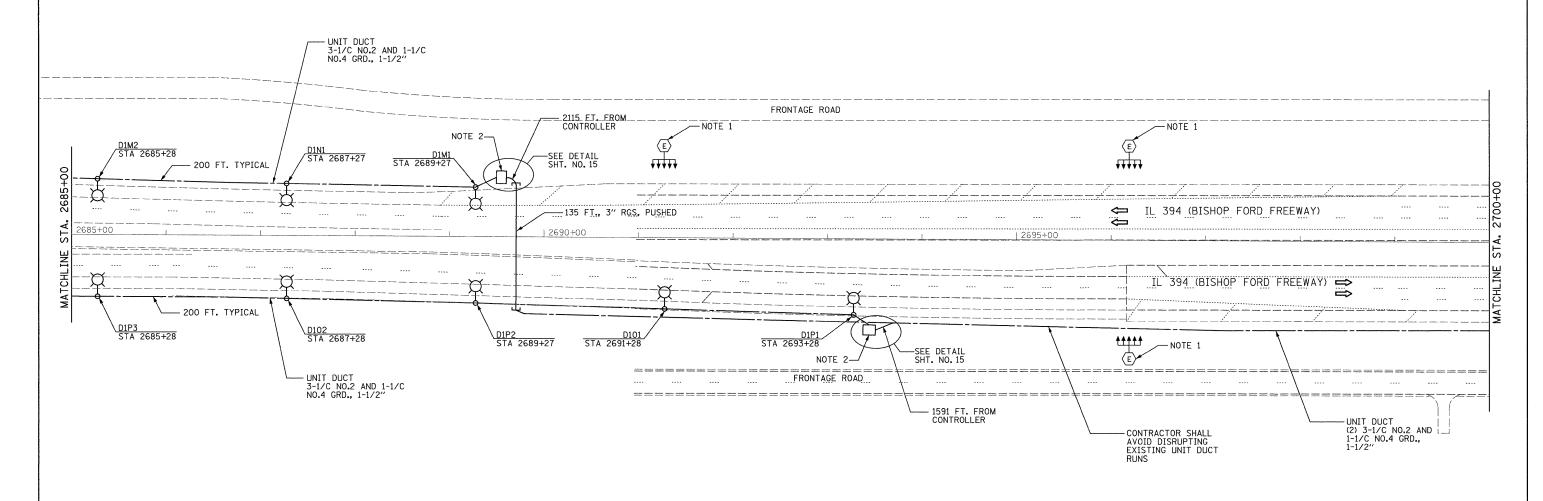
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 CONTRACT NO.
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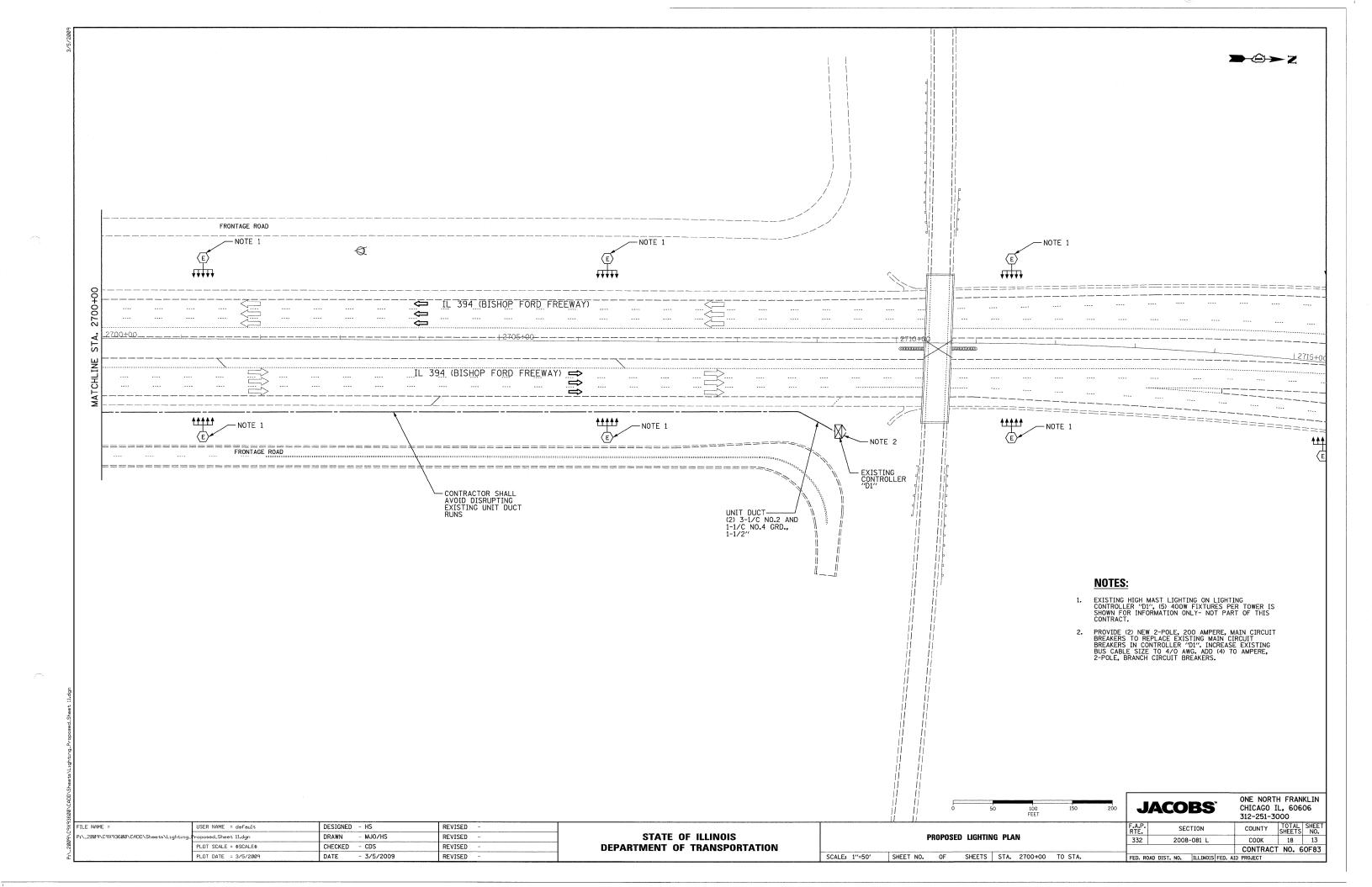


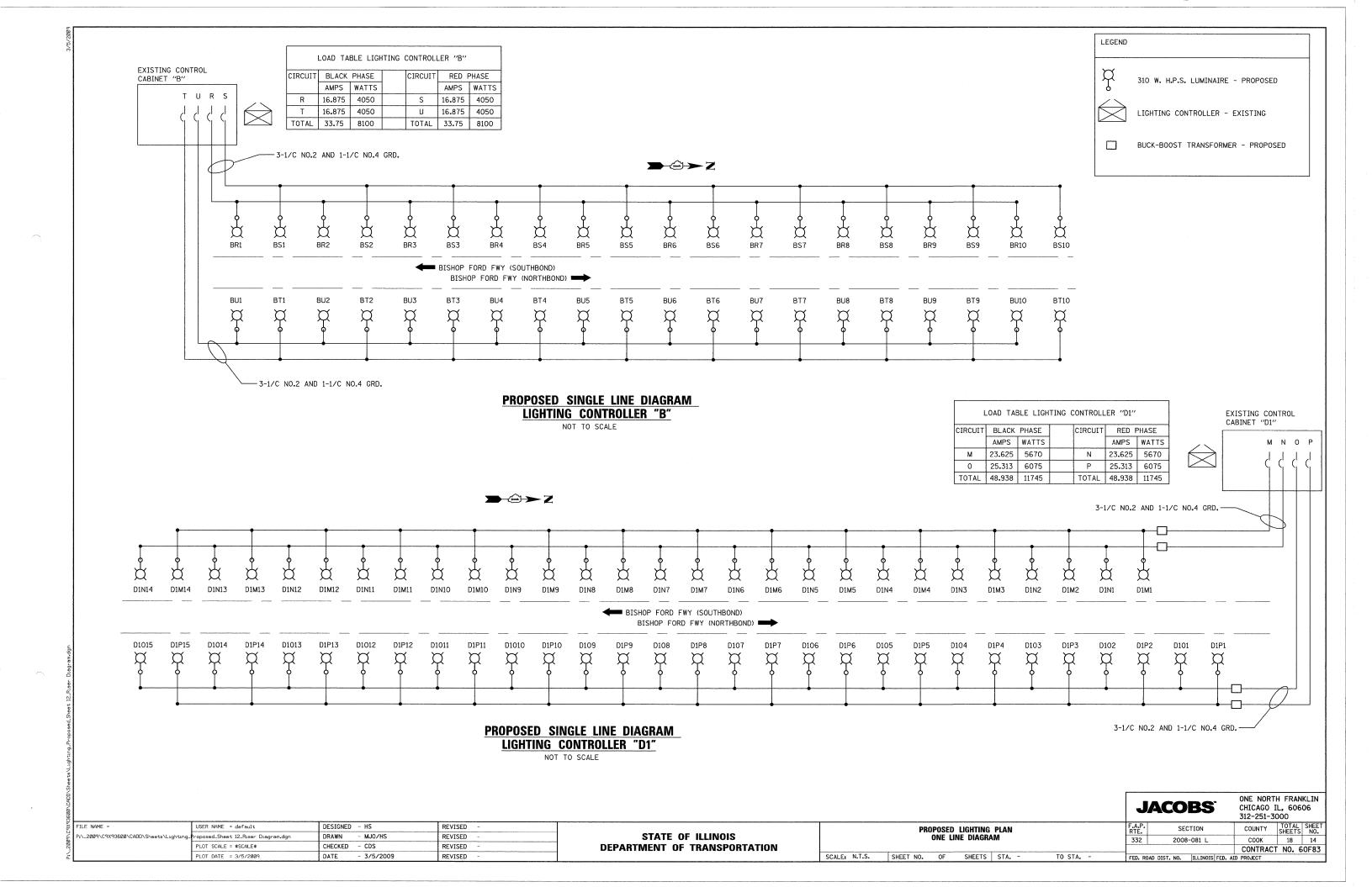


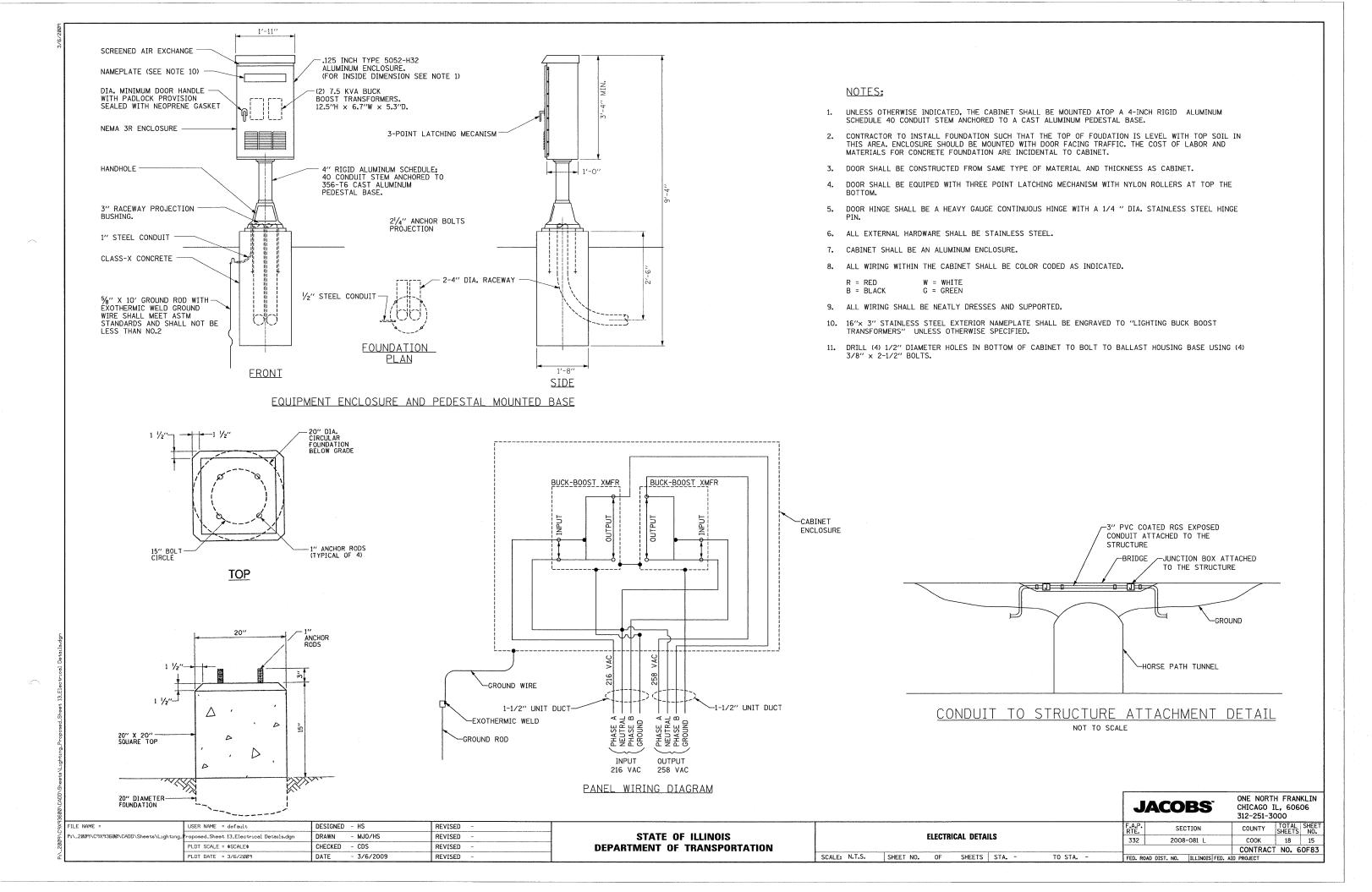
NOTES:

- EXISTING HIGH MAST LIGHTING ON LIGHTING CONTROLLER "DI", (5) 400W FIXTURES PER TOWER IS SHOWN FOR INFORMATION ONLY- NOT PART OF THIS CONTRACT.
- 2. (2) 7.5 KVA BUCK BOOST TRANSFORMERS, SINGLE PHASE, 216 IN 258 OUT, IN NEMA-3R PEDESTAL MOUNT ENCLOSURE (TYPICAL 2 PLACES), SEE ELECTRICAL DETAILS SHEET FOR MOUNTING DETAIL. TRANSFORMERS SHALL BE LOCATED 30 FT. SETBACK FROM THE EDGE OF TRAVELED PAVEMENT.

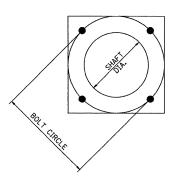
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FED. RO	AD DIST. NO.	ILLINOIS	FED.	AID	PROJECT	•



4-1" (25.4) DIA. X 7" (177.8) L.-STUD WITH JAM NUT -SEE NOTE NO. 7 1" (25.4) MIN. CLEARANCE 2" (50.8) MAX. CLEARANCE 2¹/2" (63.5) -0.25" WALL, MIN. SHAFT DIA. - 11/4" (31.75) DIA.

HELIX FOUNDATION SIZE

POLE MOUNTING HEIGHT	BOLT CIRCLE	SHAFT DIAMETER	SHAFT LENGTH	BASEPLATE
30 FT.	111/2"	85/8′′	6 FT.	12"x12"x1"
31 FT35 FT.	111/2"	85%"	6 FT.	12"x12"x1"
36 FT40FT.	15"	85/8"	6 FT.	15"×15"×1 ¹ / ₄ "
41 FT45 FT.	15"	85%''	6 FT.	15"×15"×1 ¹ / ₄ "
46 FT50 FT.	15"	10"	8 FT.	15"×15"×1 ¹ / ₄ "

METAL HELIX FOUNDATION MATERIALS

ITEM	MATERIAL REQUIREMENT
BASEPLATE	AASHTO M 270M, GRADE 36 (M270M, GRADE 250)
SHAFT	ASTM A 252, GRADE 2 (PHOSPHOROUS 0.04% MAXIMUM, SULFUR 0.05% MAXIMUM)
HELIX SCREW	AASHTO M 183 (ASTM A 635)
PILOT POINT	AASHTO M 270 (ASTM A 575)
ANCHOR RODS/STUDS	AASHTO M 314 (ASTM F 1554)
HEXAGON NUTS	AASHTO M 291M (ASTM A 563) GRADE DH, OR AASHTO M 292 (ASTM A 194) GRADE 2H
WASHERS	AASHTO M 293 (ASTM F 436)

NOTES:

- 1. ALL DIMENSION IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- 2. ALL MATERIAL SHALL BE GALVINIZED ACCORDING TO AASHTO M111, UNLESS OTHERWISE SPECIFIED.
- 3. ALL WELDS SHALL BE CONTINUOUS AND NOT LESS THAN 1/4" (6.35 mm) FILLET WELDS. THE WELDED FOUNDATION SHALL BE CAPABLE OF WITHSTANDING 10,000 FT/LBS (13558.18 n.m) OF INSTALLATION TORQUE APPLIED ABOUT THE AXIS OF THE FOUNDATION.
- 4. THE HELIX FOUNDATION SHAFT SHALL BE INSTALLED VERTICAL AND THE BASE PLATE SHALL BE IN LEVEL. THE BREAKAWAY COUPLINGS AND HARDWARE SHALL NOT BE USED TO ALIGN THE POLE INSTALLATION.
- 5. THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE INSTALLATION OF THE LIGHT POLE.
- 6. THE CONTRACTOR SHALL COORDINATE EXTENSION OF ANCHOR BOLTS ABOVE TOP OF THE BASE PLATE WITH THE BREAKAWAY DEVICE MANUFACTURER'S REQUIREMENTS.
- 7. ANY VOIDS WITHIN THE METAL FOUNDATION SHALL BE FILLED WITH FINE AGGREGATE.
- 8. METAL FOUNDATIONS SHALL BE INSTALLED IN UNDISTURBED SOIL. PREDRILLING A PILOT HOLE AND/OR BACKFILLING AROUND THE FOUNDTION IS NOT ALLOWED.
- 9. THE METAL FOUNDATION SHALL NOT BE INSTALLED TO A TORQUE WHICH EXCEEDS THE MANUFACTURER'S MAXIMUM TORQUE RATING NOR SHALL IT BE INSTALLED TO AN INSTALLATION TORQUE VALUE OF LESS THAN 3,500 FT LB (4,750 KNM). METAL FOUNDATIONS THAT ARE NOT INSTALLED TO FULL INSTALLATION DEPTH OR DO NOT ACHIEVE THE MINIMUM INSTALLATION TORQUE SHALL BE REMOVED AND REPLACED WITH A CONCRETE FOUNDATION AT NO ADDITIONAL COST.
- 10. THE BASEPLATE SHALL BE PERPENDICULAR TO THE SHAFT AXIS (\pm 1 $^{\circ}$) AND THE HOLE CENTERLINE SHALL BE CONCENTRIC (± 0.188) TO THE SHAFT AXIS.
- 11. THE PILOT POINT AND SHAFT AXIS SHALL BE CONCENTRIC (± 0.125) AND IN LINE (± 2°).
- 12. THE BASEPLATE SHALL BE STAMPED WITH THE MANUFACTURERS NAME AND DATE OF MANUFACTURE.

BE-305

ILLINOIS DEPARTMENT OF TRANSPORTATION

LIGHT POLE FOUNDATION, METAL

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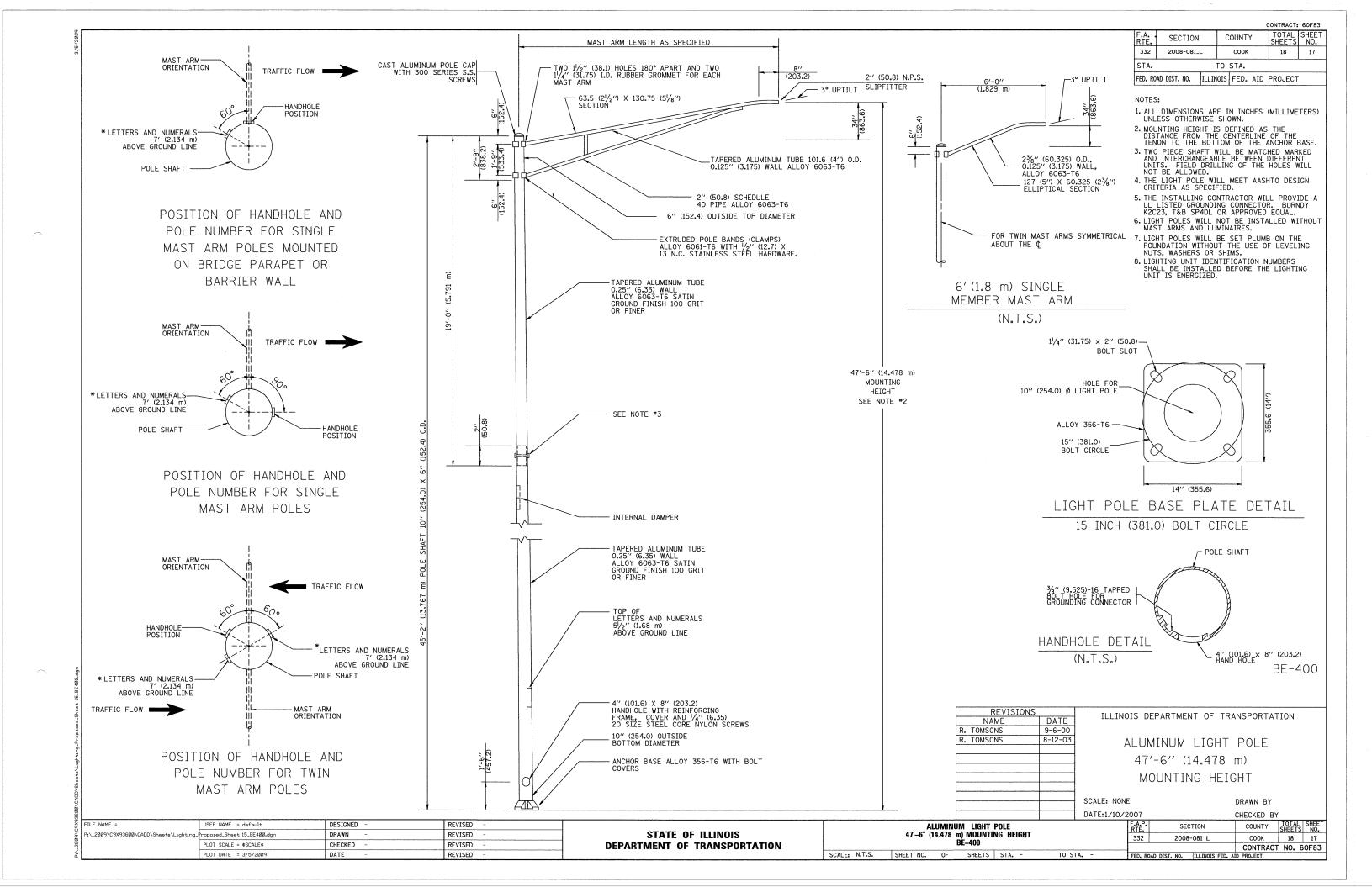
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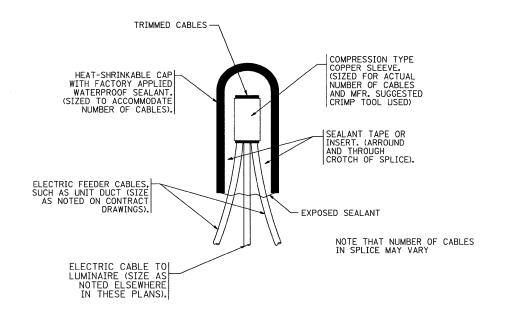
LIGHT POLE FOUNDATION, METAL BE-305 SCALE: N.T.S. SHEET NO. OF SHEETS STA. -

TO STA.

TOTAL SHEE NO. SECTION COUNTY 18 16 332 2008-081 L COOK CONTRACT NO. 60F83 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

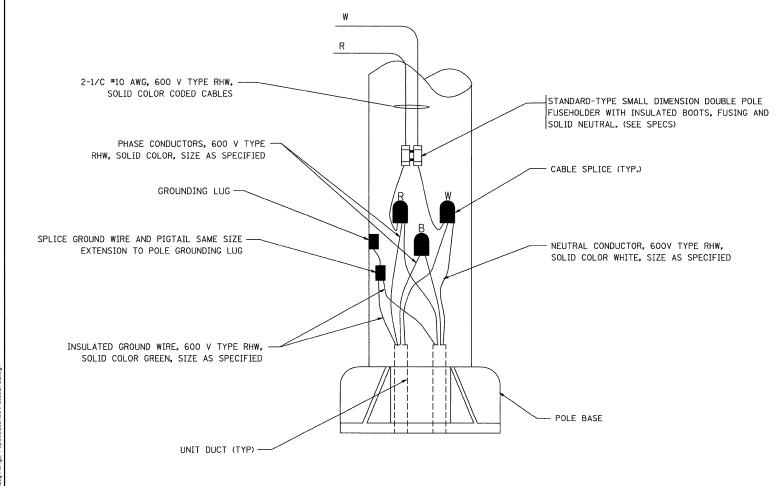
PLOT DATE = 3/5/2009 DATE REVISED





TYPICAL SPLICE DETAIL

N.T.S.



POLE WIRING DETAIL

N.T.S.

4X4	FILE NAME =	USER NAME = default	DESIGNED -	REVISED -
34/0	P:_2009\C9X93600\CADD\Sheets\Lighting_	Proposed_Sheet 16_BE7Ø2.dgn	DRAWN -	REVISED -
-201		PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -
ź		PLOT DATE = 3/5/2009	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

		S	CTRICAL DE HEET A BE-702	TAILS	
SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	-

MISC. ELECTRICAL DETAILS SHEET A

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT. NONE

TO STA. -

DRAWN BY CHECKED BY

RTE.		SEC	TION			COUNTY	SHEETS	NO.
332 2008-081 L					COOK	18	18	
						CONTRACT	NO.	60F83
FED. RO	DAD DIST.	NO.	ILLINOIS	FED.	AID	PROJECT		