CONTRACT NO. 83955 COUNTY INDEX OF SHEETS **STATE OF ILLINOIS** соок 10 COVER SHEET SHEET NO. DESCRIPTION DEPARTMENT OF TRANSPORTATION FED. ROAD DISTRICT NO. 7 ILLINOIS FED. AID PROJECT M-8003(81 TITLE SHEET 2 SUMMARY OF QUANTITIES, GENERAL NOTES AND LEGEND **DIVISION OF HIGHWAYS** LIGHTING PLANS 3-5 WIRING DIAGRAM 6 PLANS FOR PROPOSED FEDERAL AID PROJECT 7-10 LIGHTING DETAILS **BUSSE ROAD (IL 83) TOUHY AVENUE TO HOWARD STREET** INDEX OF STATE STANDARDS **SECTION 06-00052-00-LT** <u>NO.</u> **DESCRIPTION** OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE 701101-01 PROJECT NO. M-8003(819) 701106-06 OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' AWAY LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS ≥ 45 MPH TO 55 MPH 701421-01 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED 701501-03 URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NON TRAVERSABLE MEDIAN LIGHTING 701601-04 701606-04 URBAN LANE CLOSURE, MULTILANE 2W WITH MOUNTABLE MEDIAN 701701-04 URBAN LANE CLOSURE, MULTILANE INTERSECTION **COOK COUNTY** LANE CLOSURE, MULTILANE, 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE TRAFFIC CONTROL DEVICES END IMPROVEMENT C-91-310-07 LANDMEIER ROAD STA. 624+71 END IMPROVEMENT BUSSE ROAD PROJECT LOCATED IN VILLAGE STA. 1108+50 LOCATION OF SECTION INDICATED THUS: -OF ELK GROVE VILLAGE Morse Ave MARCYN 847–705–4189 P.E. CIVILTECH ENGINEERING, Authur Ave Dione O' Keefe /c. 1

DEPUTY DIRECTOR OF HIGHWAYS, REGION ONE ENGINEER BEGIN IMPROVEMENT BUSSE ROAD **BEGIN IMPROVEMENT** STA. 1078+33 P.E. SIGNATURE: 2 LANDMEIER ROAD P.E. NAME: DAVID MERTZ STA. 607+98 DATE: 10 JULY 2007 IL LICENSE NO.: 062-052068 Sat Creek Marsh LICENSE EXPIRATION: 11/30/2007 P.E. SIGNATURE: Denk H. M.L. **®** P.E. NAME: DEREK MALL FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED. DATE: JULY 12, 2007 IL LICENSE NO .: 062-051308 (19) LICENSE EXPIRATION: 11/30/2007 THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", ADOPTED JANUARY 1, 2007 BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION, SHALL GOVERN THIS WORK. PLANS PREPARED BY: LOCATION MAP (NOT TO SCALE) 1-800-892-0123 450 E. Devon Ave, Suite 300 - Itasca, Illinois 60143
Tet: 630.773.3900 - Fax: 630.773.3975
www.civiltechinc.com NET AND GROSS PROJECT LENGTH: 4,690 FEET (0.89 MILES) **CONTRACT NO. 83955** PRINTED BY AUTHORITY OF THE STATE OF ILLINOIS

	SECTION	COUNTY	TOTAL					
	06-00052-00-LT	COOK	10	2				
i	BUSSE ROAD (IL 83)							
	SUMMARY OF QUANTITIES, GENERAL NOTES AND LEGEN							

GENERAL NOTES

SPECIFICATIONS, STANDARDS AND SPECIAL PROVISIONS

- ALL REFERENCES TO "STANDARD SPECIFICATIONS" IN THESE GENERAL NOTES SHALL BE INTERPRETED TO MEAN THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", ADOPTED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION ON JANUARY 1, 2007.
- 2. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS"; THE
 "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", ADOPTED JANUARY 1, 2007;
 THE LATEST EDITION OF THE "LILINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS
 AND HIGHWAYS", THE "SPECIAL PROVISIONS AND IDOT STANDARD DRAWINGS" INCLUDED IN THE CONTRACT
 DOCUMENTS; NATIONAL ELECTRICAL CODE (NEC) 2005 EDITION; AND THE ILLUMINATING ENGINEERING SOCIETY
 OF NORTH AMERICA (IESNA) "AMERICAN NATIONAL STANDARD PRACTICE FOR ROADWAY LIGHTING" (RP-8-00).
- ANY REFERENCE TO "STANDARD" THROUGHOUT THE PLANS, SPECIAL PROVISIONS OR THESE GENERAL NOTES SHALL BE INTERPRETED TO MEAN THE LATEST VERSION OF THAT IDOT STANDARD DRAWING.
- 4. ALL TRAFFIC CONTROL AND OTHER ADVISORY SIGNS NEEDED FOR CONSTRUCTION ARE TO BE FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH SECTION 700 OF THE "STANDARD SPECIFICATIONS".
- ALL REFERENCES TO "ENGINEER" SHALL BE INTERPRETED TO MEAN THE RESIDENT ENGINEER. ALL
 REFERENCES TO "VILLAGE" SHALL BE INTERPRETED TO MEAN THE VILLAGE OF ELK GROVE VILLAGE.

LANDSCAPING

 WHEN DIRECTED BY THE ENGINEER, SUPPLEMENTAL WATERING SHALL BE APPLIED TO ALL SODDED AREAS PRIOR TO FINAL ACCEPTANCE, AT A RATE SPECIFIED BY THE ENGINEER AND IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS".

UTILITIES

- THE CONTRACTOR SHALL COOPERATE WITH THE VILLAGE IN ANY UNDERGROUND UTILITY CONSTRUCTION
 THAT THE VILLAGE MAY WANT TO INITIATE DURING THE CONTRACTOR'S OPERATIONS.
- 2. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES. THE LOCATIONS OF PUBLIC OR PRIVATE UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE, AND THE ENGINEER DOES NOT GUARANTEE THEIR ACCURACY. THE CONTRACTOR WILL BE REQUIRED TO ASCERTAIN THE EXACT LOCATIONS OF SUCH UTILITIES AND EXERCISE CARE DURING HIS CONSTRUCTION OPERATIONS SO AS NOT TO DAMAGE THEM, IN ACCORDANCE WITH THE SPECIAL PROVISIONS AND ARTICLE 107.31 OF THE "STANDARD SPECIFICATIONS". THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNERS OF ALL EXISTING UTILITIES SO THAT THEIR FACILITIES MAY BE LOCATED AND ADJUSTED OR MOYED, IN NECESSARY, PRIOR TO THE START OF CONSTRUCTION OPERATIONS.
- 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 TO THE SATISFACTION OF THE ENGINEER AND THE VILLAGE. THIS WORK SHALL BE AT THE CONTRACTOR'S EXPENSE.
- COORDINATION OF ANY UTILITY WORK INVOLVED IN THE CONSTRUCTION AREA WILL BE DISCUSSED AT THE PRECONSTRUCTION CONFERENCE.
- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 1-800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, GAS, WATER, SEWER AND CABLE TELEVISION FACILITIES (48 HOUR NOTIFICATION IS REQUIRED).
- 6. THE CONTRACTOR SHALL RECEIVE NO ADDITIONAL COMPENSATION FOR CONSTRUCTION STAGING NECESSARY TO ACCOMMODATE UTILITY RELOCATION OR ADJUSTMENT, AND/OR FOR DELAYS CAUSED BY UTILITY RELOCATION OR ADJUSTMENT.

MISCELLANEOUS

- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION.
- THE CONTRACTOR SHALL PROVIDE AND INSTALL 2 WEIGHTED SANDBAGS ON ANY TYPE I OR TYPE II BARRICADE USED (1 SANDBAG SHALL BE PLACED ACROSS EACH BOTTOM RAIL).
- PAY ITEMS IN THE SUMMARY OF QUANTITIES HAVE BEEN ESTIMATED. IF, IN THE ENGINEER'S OPINION, ANY WORK IS NOT REQUIRED, THAT ITEM WILL BE DEDUCTED FROM THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- 4. ALL WASTE MATERIAL SHALL BE LEGALLY DISPOSED OF OUTSIDE THE LIMITS OF THE R.O.W. AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROMPT CLEANUP AND DISPOSAL OF ANY AND ALL DEBRIS GENERATED BY OR INCIDENTAL TO WORK COVERED BY THIS CONTRACT.
- THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL CODES, ORDINANCES AND REGULATIONS CONCERNING MAINTENANCE OF TRAFFIC.
- 6. THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE ANY LIGHT STANDARD IS ERECTED.
- ALL PUSHED CONDUITS ON PLANS SHALL BE DIRECTIONAL BORE AND QUANTITY SHALL BE PAID FOR AS CONDUIT PUSHED.
- 8. INSTALLATION METHOD OF THE UNIT DUCT SHALL BE DIRECTIONAL BORING. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR TRENCHING WHEN DIRECTIONAL BORING IS NOT POSSIBLE BECAUSE OF UTILITY OR OTHER CONFLICTS.
- 9. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MARK THE PROPOSED LOCATIONS OF ALL LIGHT POLES FOR EXAMINATION AND CONFIRMATION WITH THE ENGINEER PRIOR TO INSTALLATION OF LIGHTING SCHIPDATIONS
- 10. GROUNDING CONNECTIONS AT THE FOUNDATION SHALL BE EXOTHERMICALLY WELDED AND SHALL BE INSPECTED AND APPROVED BY THE RESIDENT ENGINEER PRIOR TO POURING CONCRETE OR BACKFILLING AS APPLICABLE.
- 11. THE INSTALLATION OF BURIED WARNING TAPE SHALL BE INSPECTED AND APPROVED BY THE RESIDENT ENGINEER.
- ALL STREET LIGHT POLES ON LANDMEIER ROAD SHALL BE SET BACK A MINIMUM OF 6 FEET FROM THE BACK OF CURB.
- 13. NO POLES SHALL BE ERECTED UNTIL THE RESPECTIVE FOUNDATIONS HAVE CURED, AS APPROVED BY ENGINEER.

LEGEND

PROPOSED LITHONIA LIGHTING UNIT
400 WATT HPS, 240V, MC III, 45' MH, 10' MA

PROPOSED LITHONIA LIGHTING UNIT
400 WATT HPS, 240V, MC III, 45' MH, 15' MA

UNIT DUCT, 600V, 3-1C NO.4, 1/C NO.4 GROUND,
(XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE

PROPOSED GALVANIZED STEEL CONDUIT
SIZE AS SPECIFIED

EXISTING KIM LIGHTING UNIT
250 WATT HPS, 120V, MC III, 30' MH, 0.67' MA

EXISTING KIM LIGHTING UNIT
150 WATT HPS, 120V, MC III, 25' MH, 0.67' MA

CIRCUIT DESIGNATION SCHEME

LIGHTING CONTROLLER DESIGNATION POLE NUMBER ON GIVEN CIRCUIT EGF H4

STA. XX+XX
X' E.O.P.

LIGHT POLE STATION AND OFFSET FROM EDGE OF PAVMENT

REVISIONS

NAME

DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
BUSSE ROAD (IL 83)
ROADWAY LIGHTING

SUMMARY OF QUANTITIES, GENERAL NOTES AND LEGEND

DATE: 07/10/2001 CHECKED BY: D.N.M.



ITEM NO

21300010

25000400

25000600

25200100

25200200

67100100

70101700

81018600

81018900

81400100

81603085

81900200

82500505

3017400

83017600

3600200

x0325379 DIRECTIONAL BORING

SODDING

MOBILIZATION

80400100 ELECTRIC SERVICE INSTALLATION

80400200 ELECTRIC UTILITY SERVICE CONNECTION
81018500 CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL

SUMMARY OF QUANTITIES

UNIT DUCT, 600V, 3-1C NO.4, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE

PAY ITEM DESCRIPTION

TOPSOIL FURNISH AND PLACE, 4"

EXPLORATION TRENCH, SPECIAL

NITROGEN FERTILIZER NUTRIENT

PHOSPHORUS FERTILIZER NUTRIENT

TRAFFIC CONTROL AND PROTECTION

CONDUIT PUSHED, 2 1/2" DIA., GALVANIZED STEEL

81702460 ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 3/0

XX006352 LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT (SPECIAL)

LIGHT POLE, ALUMINUM, TRANSFORMER BASE, 45 FT. M.H., 10 FT. DAVIT ARM

LIGHT POLE, ALUMINUM, TRANSFORMER BASE, 45 FT. M.H., 15 FT. DAVIT ARM

CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL

TRENCH AND BACKFILL FOR ELECTRICAL WORK

LIGHT POLE FOUNDATION, 24" DIAMETER

B3600215 LIGHT POLE FOUNDATION, 24" DIAMETER, OFFSET

POTASSIUM FERTILIZER NUTRIENT

YO30-1E

TOTAL

QUANTIT

1000

1020

19

1000

690

75

518

10,000

540

42

480

60

8,700

52

UNIT

FOOT

POUND

POUND

POUND

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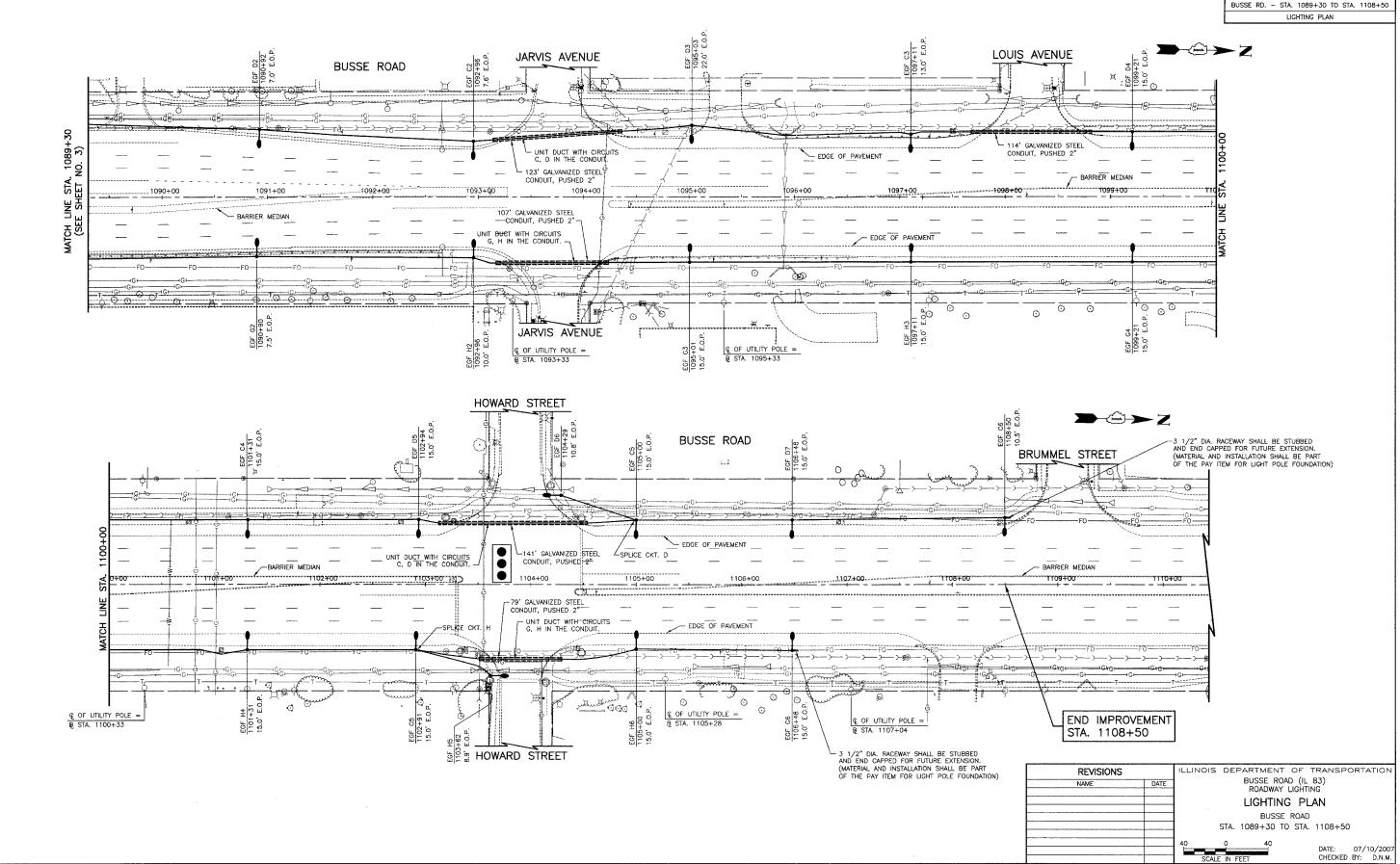
EACH

CONTRACT NO. 83955 COUNTY SHEETS NO. 06-00052-00-LT COOK 10 3 **D**⊕Z BUSSE RD. - STA. 1078+33 TO STA. 1089+30 LIGHTING PLAN TOUHY AVENUE BUSSE ROAD BARRIER MEDIAN 1075+00 1074+00 1076+00 OF UTILITY POLE = © OF UTILITY POL ® STA. 1076+23 - PROPOSAED COMMONWEALTH EDISON POWER POLE PROPOSED SERVICE CONNECTION 240/480V, 1 PHASE, 3 WIRES, 60 HZ TOUHY AVENUE LANDMEIER ROAD MATCH LINE STA. 613+00 - SPLICE CKT. L (SEE SHEET NO. 5) PROPOSED LIGHTING CONTROLLER EGF, 200 AMP, 240/480V BEGIN IMPROVEMENT 75' GLAVANIZED STEEL CONDUIT, 2 1/2" PUSHED-85' ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 3/0 "ELECTRIC CABLE IN 2" GALVANIZED
STEEL CONDUIT, 600 V (XLP—TYPE USE)
3-1/C NO. 10 FOR PHOTOCELL CONNECTION STA. 1078+33 3 1/2" DIA. RACEWAY SHALL BE STUBBED AND END CAPPED FOR FUTURE EXTENSION. (MATERIAL AND INSTALLATION SHALL BE PART OF THE PAY ITEM FOR LIGHT POLE FOUNDATION). (SEE NOTE) - PHOTOCELL CONTROL
MOUNTED ON LUMINAIRE
(SEE NOTE) BUSSE ROAD STA. 15.0 EGF L1 STA, 613+89 STA. 614+02 * 80 U 0 15.2' E.O.P. \e 2 UNIT DUCTS WITH CIRCUITS A, B; AND CIRCUITS I, J IN THE CONDUIT. - EDGE OF PAVEMENT 98' GAEVANIZED STEEL - BARRIER MEDIAN 1087+00 1085+00 1086+00 1089+00 4 UNIT DUCTS WITH CIRCUITS E, F;
CIRCUITS G, H; CIRCUITS M, N;
AND CIRCUITS O, P IN THE CONDUITS 2-151', CALVANIZED STEEL CONDUIT, 4" PUSHED 118' GALVANIZED STEEL - EDGE OF PAVEMENT E3 . 1078+33 EGF M1 STA. 616+02 © OF UTILITY POLE = 11.6' E.O.P. STA. 6.1' I STA. STA. LANDMEIER ROAD EGF P1 STA. 616+13 MATCH LINE STA. 616+40 / -3 1/2" DIA. RACEWAY SHALL BE STUBBED AND END CAPPED FOR FUTURE EXTENSION. (MATERIAL AND INSTALLATION SHALL BE PART OF THE PAY ITEM FOR LIGHT POLE FOUNDATION) (SEE SHEET NO. 5) 8.2' E.O.P. ILLINOIS DEPARTMENT OF TRANSPORTATION REVISIONS BUSSE ROAD (IL 83) ROADWAY LIGHTING LIGHTING PLAN ALL PHOTOCELL MATERIAL AND INSTALLATION SHALL BE PART OF THE PAY ITEM "LIGHTING BUSSE ROAD CONTROLLER, SPECIAL". STA. 1078+33 TO STA. 1089+30 DATE: 07/10/2007 CHECKED BY: D.N.M.

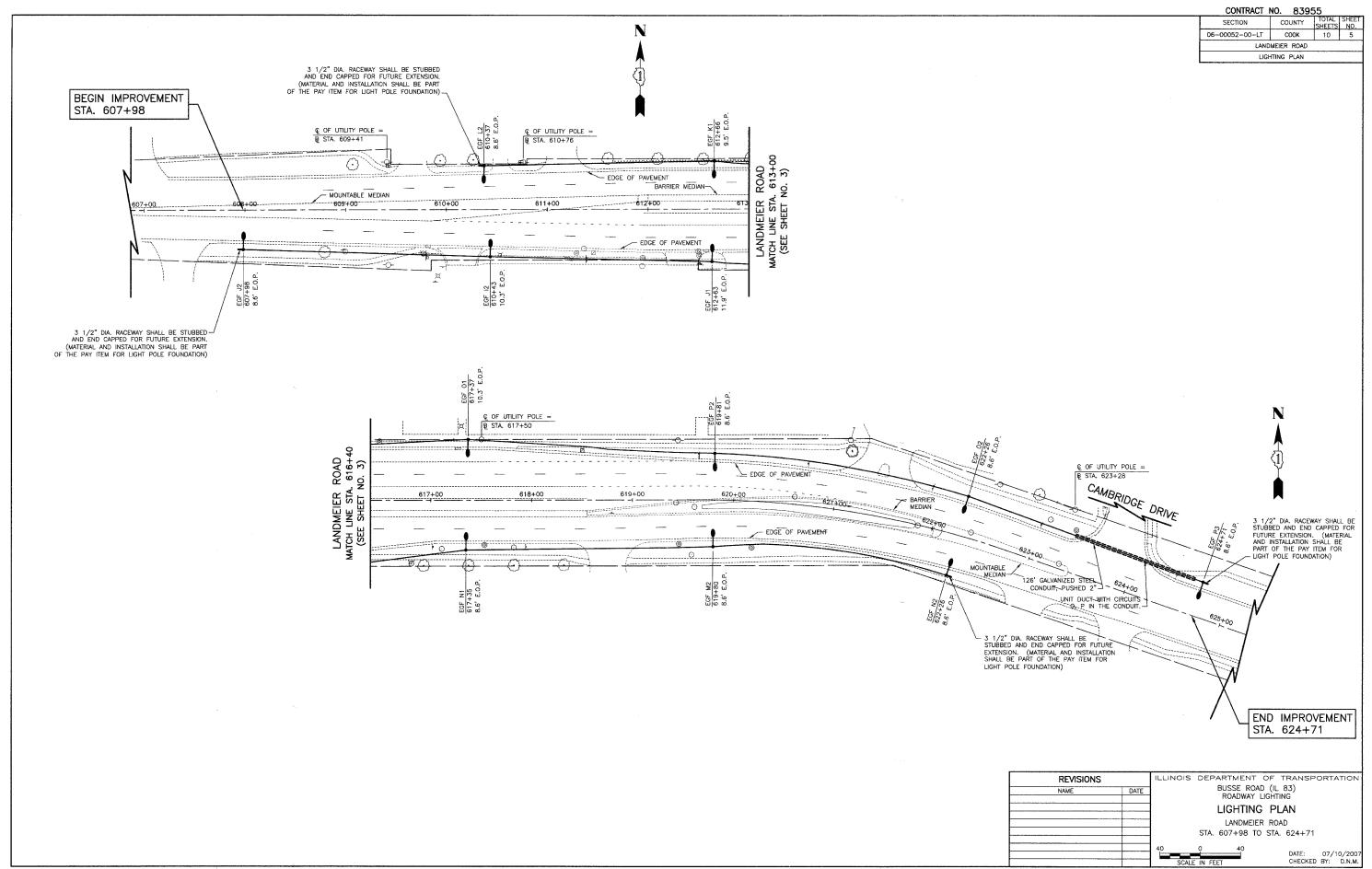


CONTRACT NO. 83955

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	06-00	052-	-00)—LT	COOK	(1	0	4	
	BUSSE	RD.	_	STA.	1089+30	TO	STA.	110	8+50	_
				LIG	HTING PLA	١N				





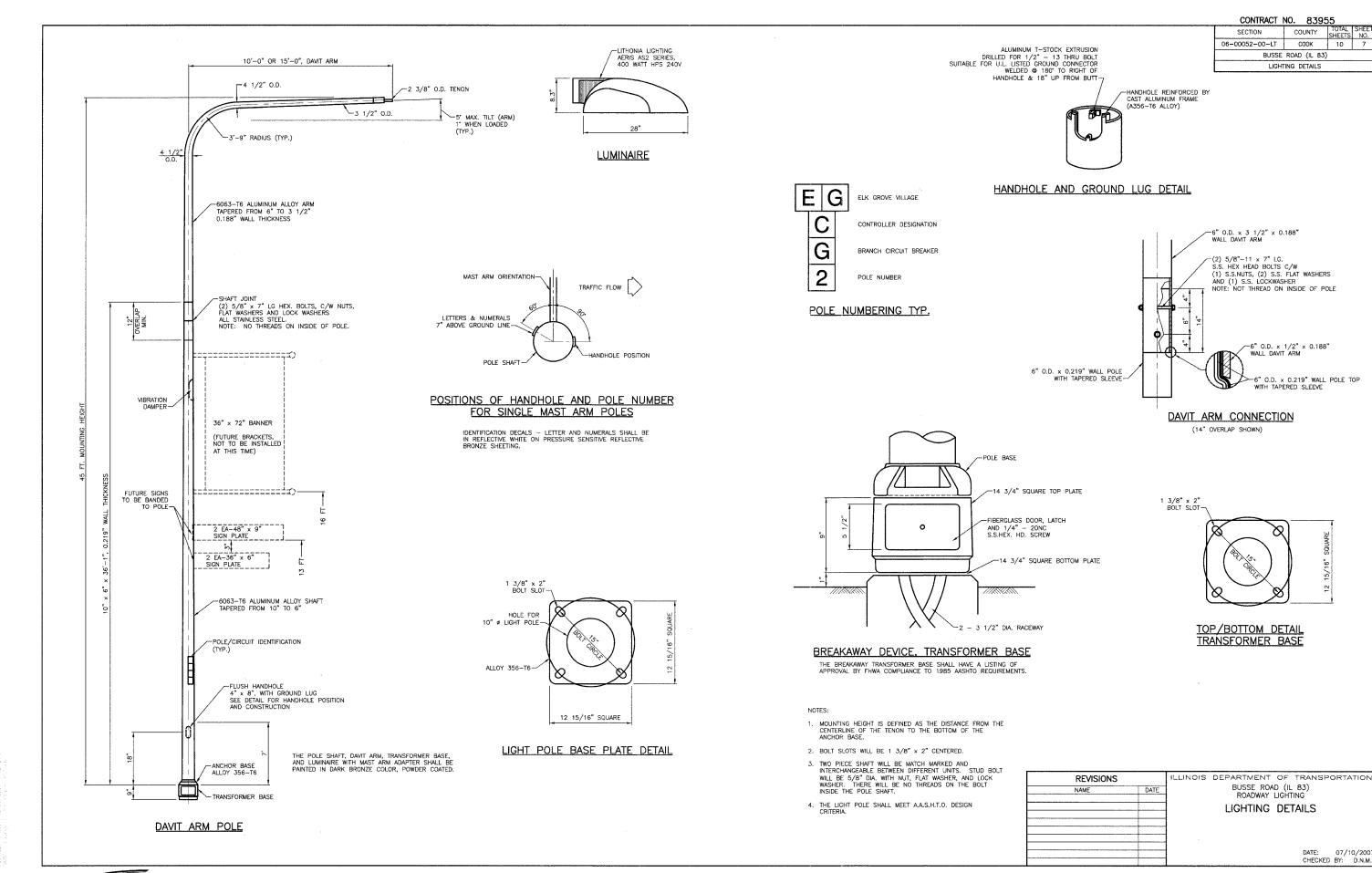




CONTRACT NO. 83955 COUNTY TOTAL SHEET SHEETS NO. SECTION CONTROLLER EGF CIRCUIT LOAD TABLE 06-00052-00-LT COOK 10 6 BUSSE ROAD (IL 83) CIRCUIT NO. TOTAL FIXTURE KW LOAD WIRING DIAGRAM 5.85 1.4 1.0 3.90 2.8 11.70 3.3 13.65 1.4 5.85 1.4 5.85 2.8 11.70 11.70 2.8 1.0 3.90 1.0 3.90 0,5 1.0 1.95 LANDMEIER ROAD 3.90 1.0 3.90 EGF J2 O 3.90 1.0 5.85 1.4 101.4 24.8 TOTAL EGF 12 O EGF L2 **→**�→Z 400W LUMINAIRE = 1.95A EGF J1 EGF K1 HOWARD STREET BRUMMEL STREET EGF L1 LOUIS AVENUE JARVIS AVENUE TOUHY AVENUE EGF I1 BUSSE ROAD O EGF D6 EGF H5 EGF P1 EGF M1 EGF N1 EGF 01 EGF M2 EGF P2 EGF N2 EGF 02 LEGEND LITHONIA LUMINAIRE, SODIUM VAPOR 400W, 240V ON BLACK WIRE O EGF P3 LITHONIA LUMINAIRE, SODIUM VAPOR 400W, 240V ON RED WIRE PROPOSED LIGHTING CONTROLLER 200 AMP, 240/480V, 1ø, 3-WIRE UNIT DUCT, 600V 3-1C NO.4, 1/C NO.4 GROUND (XLP-TYPE USE), 1 1/4" DIA. POLY. CIRCUIT DESIGNATION SCHEME (TYPICAL) CIRCUIT LIGHTING CONTROLLER DESIGNATION -POLE NUMBER ON GIVEN CIRCUIT EGF H4 REVISIONS ILLINOIS DEPARTMENT OF TRANSPORTATION BUSSE ROAD (IL 83) ROADWAY LIGHTING WIRING DIAGRAM DATE: 07/10/2007 CHECKED BY: D.N.M.

CIVILTECH

SECTION 06-00052-00-LT



...ShaddySook on Horry shorts\ 730 Ph.co. Bor Ol.chg.kd PROTED: Theorems 12 July 2007 -- 17 45. m

CIVILTECH

LIGHTING CONTROLLER, SPECIAL CONTROL CABINET DETAILS

-GROUND ROD

OTES

THE CABINET SHALL BE FABRICATED FROM 0.125" THICK ALUMINUM ALLOY SHEET AND SHALL BE REINFORCED WITH ALUMINUM ANGLES. THE CABINET DOOR SHALL BE NEMA TYPE 3R CONSTRUCTION WITH NEOPRENE GASKET. THE DOOR SHALL HAVE STANLESS STEEL HINGES AND THREE POINT LOCKING SYSTEM.

THE CONTRACTOR SHALL REMOVE VEGETATION AND TOPSOIL, LEVEL THE AREA IN FRONT OF THE CONTROL CABINET DOOR AND PLACE LENGTHWISE, PARALLEL TO CONTROL CABINET, A PRECAST PAD, 36" × 36" × 3" MINIMUM SIZE. THE COST OF LABOR AND MATERIALS SHALL BE INCIDENTAL TO THE CONTROL CABINET.

CONTROL WIRE SHALL BE #12 AWG, 600V, TYPE "SIS" STRANDED COPPER GRAY SWITCH BOARD WIRE. THE ENDS OF ALL CONTROL WIRES SHALL BE IDENTIFIED.

THE ELECTRIC METER BOX SHALL BE MOUNTED ON THE SIDE OF THE CONTROL CABINET, NEAR THE SERVICE POLE AND/OR AS DIRECTED BY THE ENGINEER.

ALL CONTROL CABINET ITEMS SHALL HAVE SUITABLE IDENTIFICATION. OPEN CIRCUIT BREAKERS, CONTACTORS AND OTHER OPEN DEVICES SHALL HAVE PERMANENT SELF STICKING TAGS. DEVICES IN ENCLOSURES SHALL HAVE ENGRAVED 2-COLOR LAMINATED PLASTIC NAMEPILATES ATTACHED TO ENCLOSURES WITH SCREWS. NAMEPILATES SHALL BE ENGRAVED TO CORRESPOND TO DESICATIONS ON THE DRAWINGS. INTERNAL CABINET WINING SHALL BE IDENTIFIED AS INDICATED OR AS DIRECTED BY THE ENGINEER RY MEANS OF SELF-STICKING TAGS APPLIED AT EACH CONNECTED END. IDENTIFICATION SHALL BE MADE BY THE CABINET MANUFACTURER.

ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.

THE HEADS OF CONNECTOR SCREWS SHALL BE PAINTED WHITE FOR NEUTRAL BUSS CONNECTION AND GREEN FOR GROUND BUSS CONNECTORS.

PROVIDE SEALING GROMMETS FOR ALL OPEN WIRING EXTENDED FROM DEVICES IN BOXES WITHIN THE CONTROL CABINET.

THE CONTROLLER SHALL BE CONSTRUCTED TO U.L. STD. 508
AND BEAR THE U.L. LABEL "ENCLOSED INDUSTRIAL CONTROL
PANEL"

PROVIDE A HOLDER AND WATERPROOF POUCH ON THE INNER SIDE OF THE CONTROLLER DOOR. THE HOLDER AND POUCH SHALL BE MOUNTED SO THAT RAINWATER OR CONDENSED WATER CANNOT ENTER THE POUCH WITH THE CABINET DOOR OPEN. FURNISH THE APPROVED COPY OF THE "CONTROL CABINET WISING DIAGRAM".

THE CABINET, METER AND BASE, AND CONDUIT FOR THE METER SHALL BE PAINTED IN DARK BRONZE FINISH.

 CONTRACT
 NO.
 83955

 SECTION
 COUNTY
 TOTAL SHEETS NO.

 06-00052-00-LT
 COOK
 10
 8

 BUSSE
 ROAD (IL 83)
 LIGHTING DETAILS

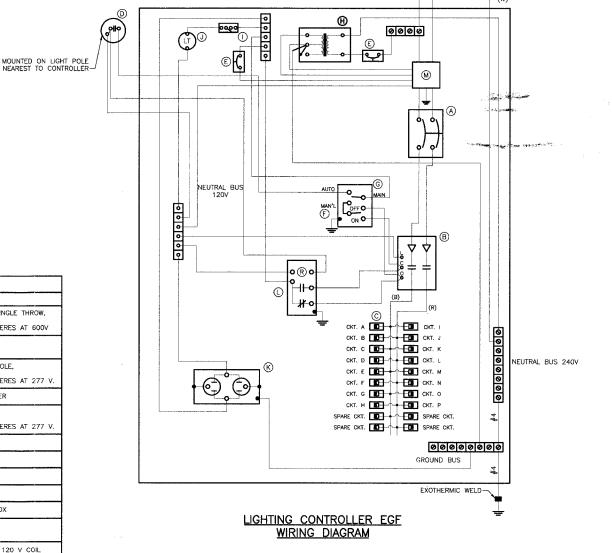
-(B) 240/480V, 1 PHASE, -(R) 3 WIRE, 60 HZ SERVICE

ILLINOIS DEPARTMENT OF TRANSPORTATION

BUSSE ROAD (IL 83) ROADWAY LIGHTING

LIGHTING DETAILS

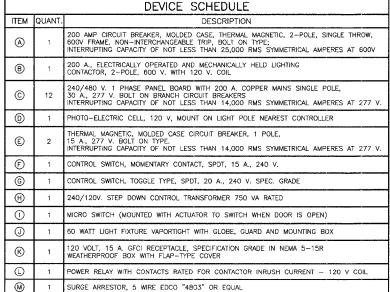
DATE: 07/10/200 CHECKED BY: D.N.M.



REVISIONS

NAME

PANEL WIRING DIAGRAM





CONTROL APPEAR SPECIAL AND LANGUAGE AND LANG



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	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.					
	06-00052-00-LT	COOK	10	9					
	BUSSE								
LIGHTING DETAILS									

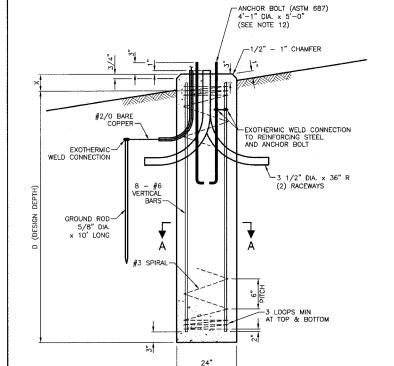
DESIGN TABLE LIGHT POLE FOUNDATION, 24" DIAMETER, OFFSET

TYPE OF SOIL	DESIGN DEPTH OF FOUNDATION D			
SOFT CLAY	13'-0"			
MEDIUM CLAY	9'-6"			
STIFF CLAY	7'-0"			
LOOSE SAND	9'-0"			
MEDIUM SAND	8'-3"			
DENSE SAND	7'_9"			



- 10-#6 BARS EQUALLY SPACED Ç LIGHT POLE COMPACTED CA-6 VARIES, 4'-6" MAX. BACKFILL-₹ LIGHT POLE -FINISHED GRADE 6'--9" VARIES, 4'-6" MAX. * -4 - 1" ANCHOR BOLTS WITH HEX NUTS AND WASHERS, ASTM 687 STEEL ANCHOR BOLTS -─15" DIA. BOLT CIRCLE * CONTACT THE ENGINEER FOR OFFSETS GREATER THAN 4'-6" <u>PLAN</u> VARIES, 6'-9" MAX. ANCHOR BOLTS 5-#6 ❷ EXISTING UTILITY 2'-0" 4 §" CTS. -5 REQUIRED MIN. VARIES © 12" CTS. CHAMFER EXPOSED EDGES. 10-#6 BARS EQUALLY SPACED SEE DETAIL "LIGHT POLE FOUNDATION, 24" DIAMETER" FOR CONDUITS, ANCHOR BOLT CIRCLE, GROUND ROD, ETC. SECTION A-A SECTION B-B

2'-0" DIA, DRILLED IN PLACE CONCRETE SHAFT

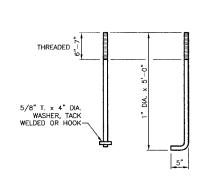


15" BOLT CIRCLE

TOP VIEW

3 1/2" DIA. RACEWAYS PARALLEL TO EDGE OF PAVEMENT

GROUND CONDUCTOR SLEEVE 1" PVC DUCT



ANCHOR BOLT DETAIL

NOTES:

LIGHT POLE FOUNDATION, 24" DIAMETER, OFFSET

- THE ENGINEER SHALL DETERMINE THE CLASS OF SOIL DURING EXCAVATION AND SELECT THE DESIGN DEPTH OF FOUNDATION FROM THE DESIGN TABLE. THE CONTRACTOR SHALL NOT ORDER REINFORCEMENT BARS UNTIL THE OFFSET AND DIMENSION D ARE DETERMINED.
- EXCAVATION OF THE POLE FOUNDATION SHALL BE MADE WITH AN AUGER, 24" OR 30" IN DIAMETER.
- THE CONTRACTOR SHALL USE #3 SPIRAL AT 6" PITCH OR AT HIS OPTION MAY SUBSTITUTE #3 TIES AT 12" CENTER.
- 4. THE ANCHOR SHALL BE A TACK WELDED TYPE BOLT OR HOOK TYPE BOLT. COLD BENDING OF THE HOOK BOLT WILL NOT BE ALLOWED. 5. THE ANCHOR BOLTS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONRETE IS PLACED IN THE FORM.
- 6. THE ENTIRE LENGTH OF THE ANCHOR BOLTS AS WELL AS THE NUTS AND WASHERS SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM DESIGNATION A 153.
- CONCRETE SHALL BE CLASS "SI". CONCRETE FOUNDATION MUST BE CURED FOR (10) TEN DAYS BEFORE THE LIGHT STANDARD IS ERECTED.
- 8. THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE LIGHT IS ERECTED.
- 9. ANCHOR BOLTS SHALL PROJECT 3" ABOVE THE TOP OF THE FOUNDATION.
- 10. RACEWAYS SHALL PROJECT 1" ABOVE THE TOP OF THE FOUNDATION.
- 11. THE CONTRACTOR SHALL COORDINATE THE EXTENSION OF ANCHOR BOLTS
 ABOVE TOP OF FOUNDATION WITH THE BREAKAWAY DEVICE MANUFACTURER'S
- 12. A MINIMUM OF 3" OF THE THREADING ON THE ANCHOR BOLTS SHALL REMAIN BELOW THE TOP OF THE FOUNDATION.

REVISIONS	ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME DATE	BUSSE ROAD (IL 83) ROADWAY LIGHTING
	LIGHTING DETAILS
	DATE: 07/10/200 CHECKED BY: D.N.M
	CHECKED BY. B.M.M

DESIGN TABLE - LIGHT POLE FOUNDATION, 24" DIAMETER

	DESIGN DEPTH	OF FOUNDATION	REINFORCEMENT IN FOUNDATION				
TYPE OF SOIL	SINGLE ARM D	TWIN ARM D	SINGLE ARM		TWIN ARM		
			VERT, BARS	SPIRAL	VERT. BARS	SPIRAL	
SOFT CLAY	13'-0"	15'-0"	8-#6 x 12'-6"	#3 x 122'	8-#6 x 14'-3"	#3 × 141'	
MEDIUM CLAY	9'-6"	10'-9"	8-#6 × 9'-0"	#3 × 90'	8-#6 x 10'-0"	#3 × 100'	
STIFF CLAY	7'-0"	8'-0"	8-#6 x 6'-6"	#3 × 66'	8-#6 x 7'-6"	#3 × 76'	
LOOSE SAND	10'-0"	11'-0"	8-#6 × 9'-6"	#3 × 94'	8-#6 x 10'-6"	#3 ×103'	
MEDIUM SAND	8'-3"	9'-0"	8-#6 x 8'-0"	#3 × 78′	8-#6 x 8'-6"	#3 × 85'	
DENSE SAND	7'-9"	9'-0"	8-#6 × 7'-6"	#3 × 73'	8-#6 x 8'-6"	#3 x 85'	
ROCK OR SOLIDIFIED SLAG	5'-0"	5'-0"	NONE	NONE	NONE	NONE	



SECTION A-A

LIGHT POLE FOUNDATION, 24" DIAMETER



