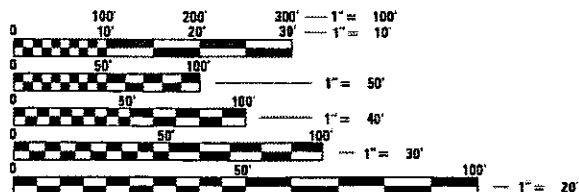


TRAFFIC DATA	ADT 2017	SPEED POSTED
I-57 NORTH/ SOUTH	79500/54500	55/70
US30 WEST/ EAST	21000/33000	45/85
I-290	186600	55
Central Ave. NORTH/SOUTH	21200/23600	30/30
IL31 NORTH/SOUTH	31800/24000	55/55
US14	23200	40

SEE LOCATION MAPS ON SHEETS E-KP1 AND E-KP2. INDEX OF SHEETS AND IDOT HIGHWAY STANDARDS LIST ON SHEET E-KP2



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.

C.U.A.N.  
CHICAGO UTILITY ALERT NETWORK  
1-312-744-7000

J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123  
OR 811

MEADE ELECTRIC CO. DISTRICT ONE ELECTRICAL  
MAINTENANCE CONTRACTOR LOCATES IDOT ELECTRICAL  
EQUIPMENT AND UNDERGROUND CABLES  
773-287-7672

PROJECT ENGINEER: TONY GODINHO (847)-705-4442  
PROJECT MANAGER: MARK JENKINS (847)-705-4350  
CONTRACT NO. 62C35

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PROPOSED  
HIGHWAY PLANS

VARIOUS ROUTES  
VARIOUS LOCATIONS  
SECTION: 2016-017L  
PROJECT: NHPP-PKJE(161)  
REPLACE LIGHT TOWERS & FOUNDATIONS  
AT VARIOUS LOCATIONS ALONG I-57, US-14  
AND I-290  
COOK AND McHENRY COUNTIES  
C-91-339-16

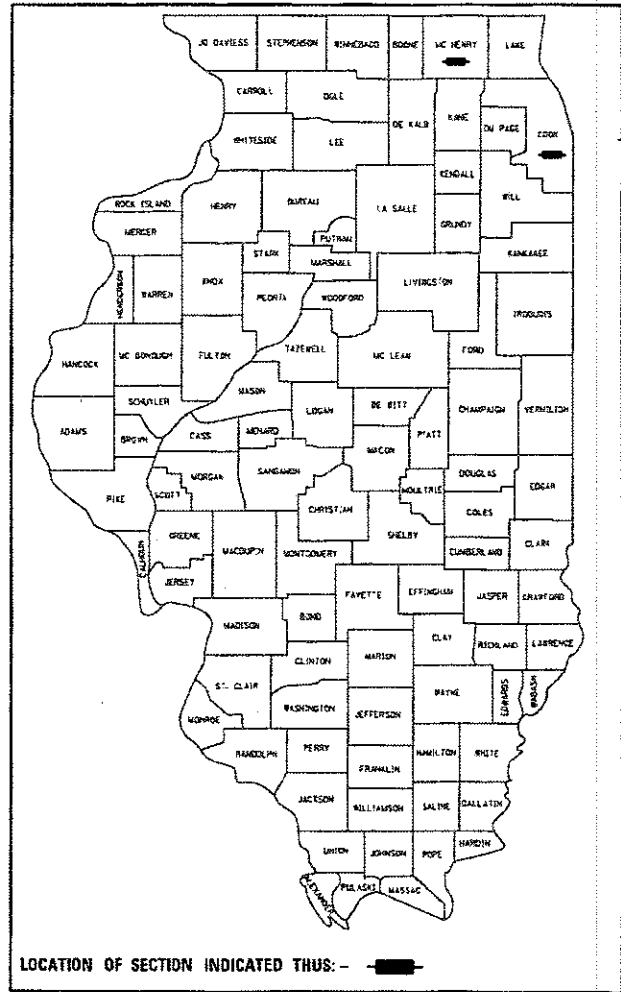


DELTA ENGINEERING GROUP, LLC  
111 W. JACKSON BLVD., CHICAGO, IL 60604  
MAIN 312-377-7700 FAX 312-427-6145



JACOBS  
525 West Monroe  
Suite 1800  
Chicago, IL 60661

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2016-017L	VARIOUS	88	1
ILLINOIS			CONTRACT NO. 62C35	



HAMJA S. MASTER  
062-040209  
LICENSED PROFESSIONAL ENGINEER  
STATE OF ILLINOIS

*Hamja S. Master* 3-23-2018  
EXPIRES: 11-30-2019

WILLIAM J BARTOLUCCI  
062.059414  
LICENSED PROFESSIONAL ENGINEER  
STATE OF ILLINOIS

*William J. Bartolucci*  
3/23/17  
EXPIRES: 11-30-2019

FINAL SUBMITTAL

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

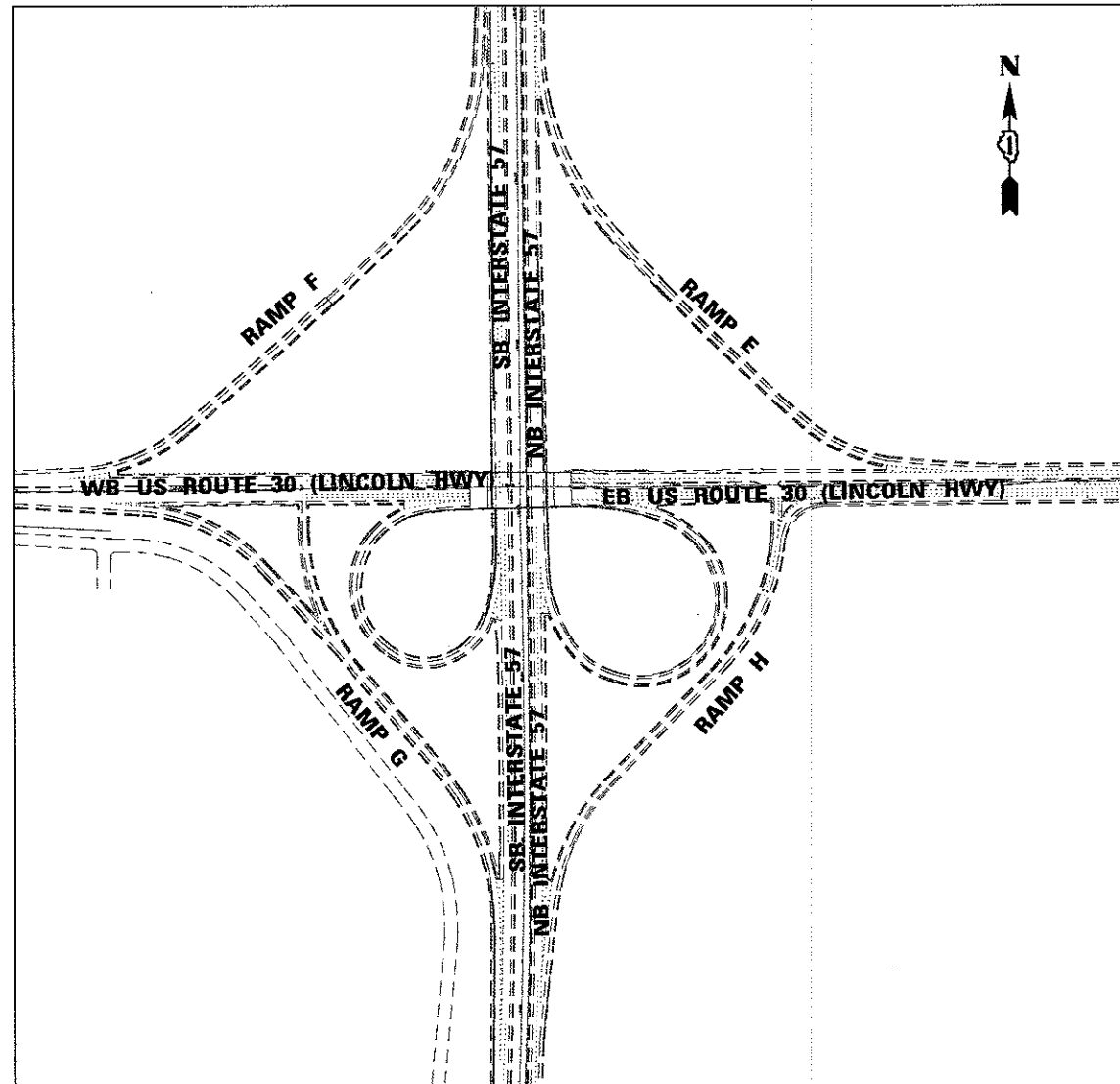
SUBMITTED 23 MAR 2018

*William J. Bartolucci*  
REGIONAL ENGINEER

*Paul P. [Signature]*  
ENGINEER OF DESIGN AND ENVIRONMENT

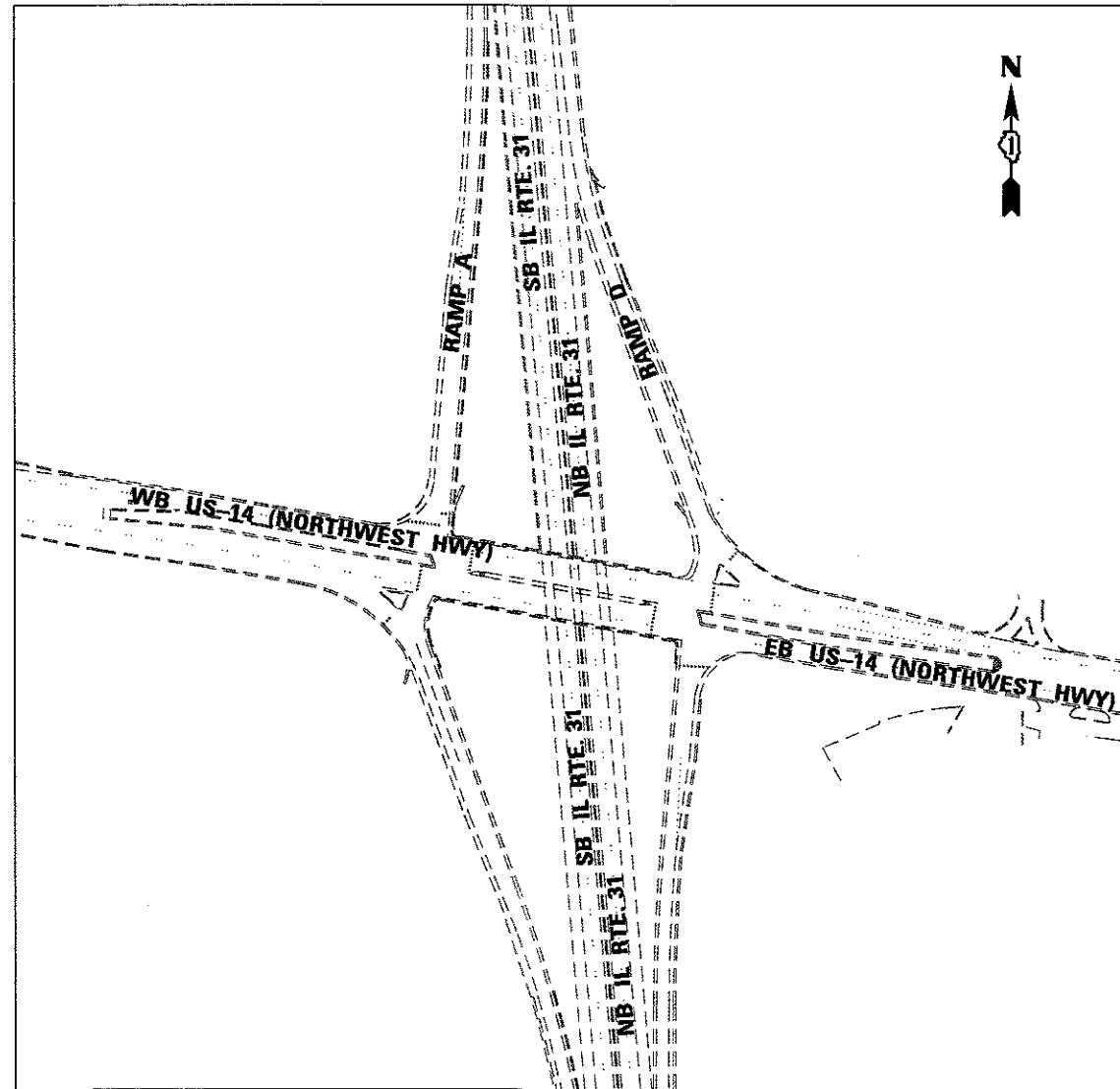
*Paul P. [Signature]*  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS



**I-57 /US-30**  
SCALE: NONE

NEAR BY CITY OR VILLAGE: MATTESON  
COUNTY: COOK  
LOCATION - 1



**US-14 /IL-31**  
SCALE: NONE

NEAR BY CITY OR VILLAGE: CRYSTAL LAKE  
COUNTY: Mc HENRY  
LOCATION - 2



USER NAME = #USER#	DESIGNED - HM	REVISED -
	DRAWN - GJ	REVISED -
PLOT SCALE = #SCALE#	CHECKED - HS	REVISED -
PLOT DATE = #DATE#	DATE - 03-21-2017	REVISED -

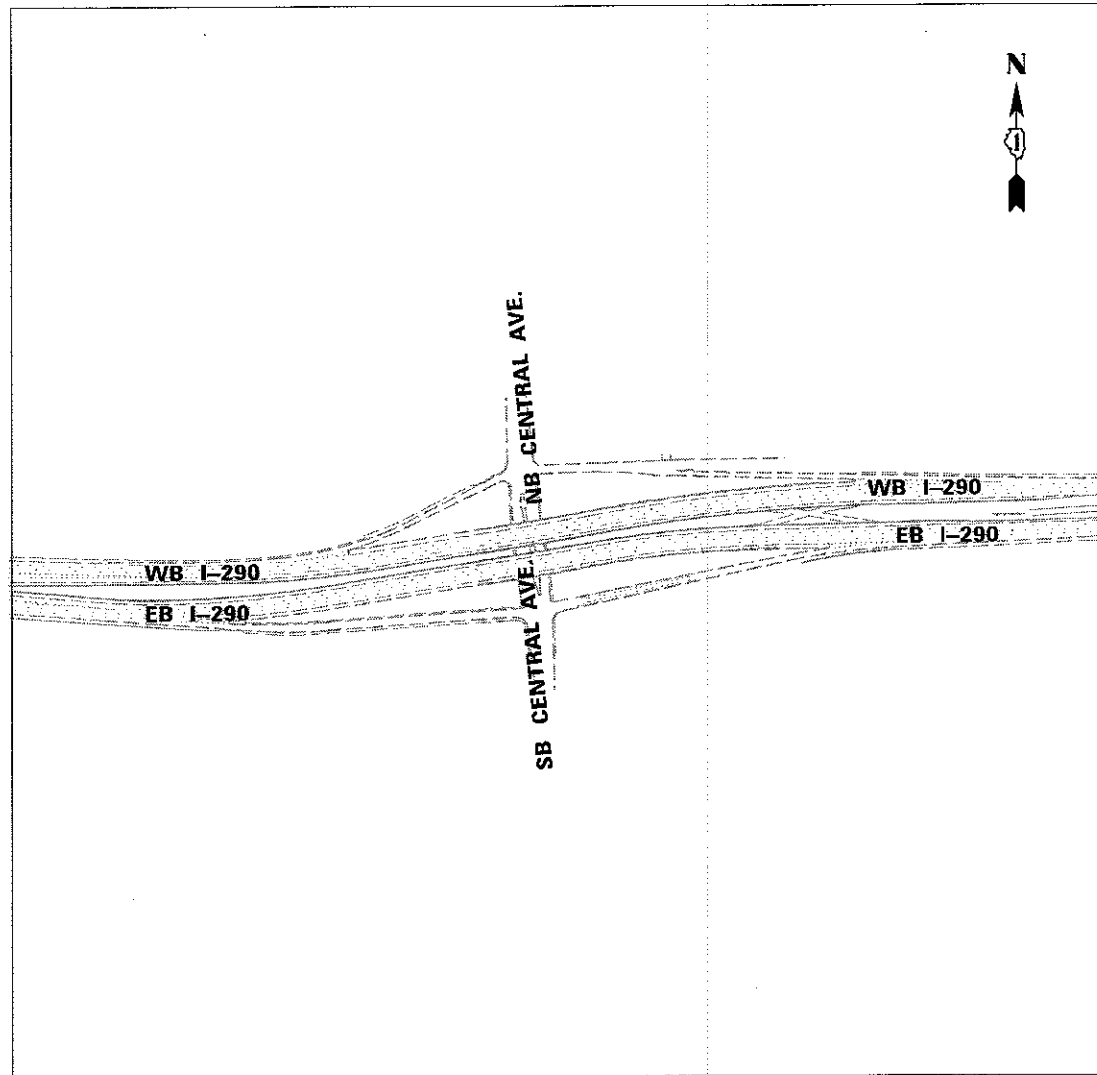
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

LOCATION MAP  
SHEET 1 OF 2

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2016-017L	VARIOUS	88	2
CONTRACT NO. 62C35			ILLINOIS FED. AID PROJECT	

E-KP1



**I-290 /CENTRAL AVE.**  
**SCALE: NONE**

NEAR BY CITY OR VILLAGE: CHICAGO  
 COUNTY: COOK  
 LOCATION - 3

**INDEX OF SHEETS**

- 1 COVER SHEET
- 2 - 3 LOCATION MAP
- 4 - 6 SUMMARY OF QUANTITIES
- 7 TOWER REPLACEMENT GROUPED PER LOCATION
- 8 - 17 CIVIL PLAN
- 18 SYMBOLS LEGEND, GENERAL NOTES AND REMOVAL NOTES
- 19 - 24 LIGHTING REMOVAL PLAN
- 25 - 31 PROPOSED LIGHTING PLAN
- 32 - 40 INFORMATION ONLY PLANS
- 41 - 48 I-290 AT CENTRAL PROPOSED SURVEILLANCE PLANS
- 49 - 51 STRUCTURE PLAN
- 52 - 58 SOIL BORING LOGS
- 59 BE-305 LIGHT POLE FOUNDATION, DETAIL
- 60 BE-410 DAVIT LIGHT POLE 47'-6" (14.478 m) MOUNTING HEIGHT
- 61 BE-500 HIGH MAST LIGHT TOWER 100 FT TO 160 FT (30 m TO 49 m)
- 62 BE-500 HIGH MAST LIGHT TOWER 100 FT TO 160 FT (30 m TO 49 m)
- 63 BE-500 HIGH MAST LIGHT TOWER 100 FT TO 160 FT (30 m TO 49 m)
- 64 BE-501 HIGH MAST LIGHT TOWER 100 FT TO 110 FT (30 m TO 34 m) FOUNDATION DETAIL
- 65 BE-501 HIGH MAST LIGHT TOWER 100 FT TO 110 FT (30 m TO 34 m) FOUNDATION DETAIL
- 66 BE-701 LUMINAIRE SAFETY CABLE ASSEMBLY
- 67 BE-702 MISC. ELECTRICAL DETAILS SHEET A
- 68 TC-08 ENTRANCE AND EXIT RAMP CLOSURE DETAILS
- 69 TC-09 TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE & MULTI-LANE WEAVE
- 70 TC-10 TRAFFIC CONTROL PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
- 71 TC-17 PARTIAL RAMP AND SHOULDER CLOSURE DETAILS
- 72 TC-18 FREEWAY/EXPRESSWAY SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS
- 73 TC-22 ARTERIAL ROAD INFORMATION SIGN
- 74 - 88 INFORMATION ONLY PLANS

**IDOT HIGHWAY STANDARDS**

- 280001-07 TEMPORARY EROSION CONTROL SYSTEMS
- 630001-12 STEEL PLATE BEAM GUARDRAIL
- 701101-05 OFF-RD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
- 701106-02 OFF-RD OPERATIONS MULTILANE, MORE THAN 15' AWAY
- 701400-09 APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701401-11 LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701411-09 LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS >45 MPH
- 701426-09 LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS >45 MPH
- 701428-01 TRAFFIC CONTROL SETUP AND REMOVAL FREEWAY/EXPRESSWAY
- 701446-09 TWO LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701601-09 URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
- 701701-10 URBAN LANE CLOSURE, MULTILANE INTERSECTION
- 701901-07 TRAFFIC CONTROL DEVICES
- 704001-08 TEMPORARY CONCRETE BARRIER
- 782006 GUARDRAIL AND BARRIER REFLECTOR MOUNTING DETAILS

E-KP2

 DELTA ENGINEERING GROUP, LLC	DESIGNED: HM DRAWN: GJ CHECKED: HS DATE: 03-21-2017	REVISED: - REVISED: - REVISED: - REVISED: -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>LOCATION MAP</b> <b>SHEET 2 OF 2</b>	SCALE: NONE SHEET OF SHEETS STA. TO STA.	F.A. RTE.: SECTION: 2016-017L COUNTY: COOK ILLINOIS FED. AID PROJECT	TOTAL SHEETS: 88 SHEET NO.: 3 CONTRACT NO. 62C35
	USER NAME: #USER# SCALE: #SCALE# DATE: #DATE#	DESIGNED: HM DRAWN: GJ CHECKED: HS DATE: 03-21-2017	REVISED: - REVISED: - REVISED: - REVISED: -				

Section: 2016-017L  
 Contract No.: 62C35  
 C-91-339-16

URBAN

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				90% FED 10% STATE ROADWAY	80% FED 20% STATE ROADWAY	90% FED 10% STATE HIGHWAY LIGHTING	80% FED 20% STATE HIGHWAY LIGHTING
				0005	0005	0021	0021
				COOK	McHENRY	COOK	McHENRY
20101900	TEMPORARY FENCE	FOOT	4830	4830			
20101200	TREE ROOT PRUNING	EACH	5	5			
20200100	EARTH EXCAVATION	CU YD	438	426	12		
20400800	FURNISHED EXCAVATION	CU YD	64	64			
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	3979	3669	310		
25000210	SEEDING, CLASS 2A	ACRE	0.07	0.07			
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	6	6			
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	6	6			
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	6	6			
25100630	EROSION CONTROL BLANKET	SQ YD	3979	3669	310		
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	20	15	5		
28000400	PERIMETER EROSION BARRIER	FOOT	10277	9627	650		
28000500	INLET AND PIPE PROTECTION	EACH	3	2	1		
28001100	TEMPORARY EROSION CONTROL BLANKET	SQ YD	800	600	200		
31101400	SUBBASE GRANULAR MATERIAL, TYPE B 6"	SQ YD	72	36	36		
31102100	SUBBASE GRANULAR MATERIAL, TYPE C 4"	SQ YD	333	266	67		
42000060	WELDED WIRE REINFORCEMENT	SQ YD	74	38	36		
44001980	CONCRETE BARRIER REMOVAL	FOOT	200	200			
44004250	PAVED SHOULDER REMOVAL	SQ YD	67		67		
48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SQ YD	333	266	67		
50200100	STRUCTURE EXCAVATION	CU. YD.	129	26	103		
50300225	CONCRETE STRUCTURE	CU. YD.	35	6	29		
50300300	PROTECTIVE COAT	SQ. YD.	90	36	54		
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	3557		3557		
63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	200		200		

\* - SPECIALTY ITEM

E-QTY1



USER NAME = *USER*	DESIGNED - HM	REVISED -
	DRAWN - GJ	REVISED -
PLOT SCALE = *SCALE*	CHECKED - HS	REVISED -
PLOT DATE = *DATE*	DATE - 03-21-2017	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES			
SHEET 1 OF 3			
SCALE:	SHEET	OF	SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2016-017L	VARIOUS	88	4
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62C35	

Section: 2016-017L  
 Contract No.: 62C35  
 C-91-339-16

CONSTRUCTION CODE			
90% FED 10% STATE	80% FED 20% STATE	90% FED 10% STATE	80% FED 20% STATE
ROADWAY 0005 COOK	ROADWAY 0005 McHENRY	HIGHWAY LIGHTING 0021 COOK	HIGHWAY LIGHTING 0021 McHENRY

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	90% FED 10% STATE ROADWAY 0005 COOK	80% FED 20% STATE ROADWAY 0005 McHENRY	90% FED 10% STATE HIGHWAY LIGHTING 0021 COOK	80% FED 20% STATE HIGHWAY LIGHTING 0021 McHENRY
63200310	GUARDRAIL REMOVAL	FOOT	200		200		
63700255	CONCRETE BARRIER, DOUBLE FACE, 32 INCH HEIGHT	FOOT	250	250			
63700900	CONCRETE BARRIER BASE	FOOT	250	250			
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	214	200	14		
* 66900450	SPECIAL WASTE PLANS AND REPORTS	LSUM	1	0.67	0.33		
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	3	2	1		
67000400	ENGINEER'S FIELD OFFICE, TYPE A	COL MO	8	7	1		
67100100	MOBILIZATION	L SUM	1	0.9	0.1		
70400100	TEMPORARY CONCRETE BARRIER	FOOT	675	175	500		
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	175	175			
70600260	IMPACT ATTENUATOR, TEMPORARY (FULLY REDIRECTIVE,NARROW), TEST LEVEL 3	EACH	2		2		
78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	74	34	40		
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	1856			1726	130
81100600	CONDUIT ATTACHED TO STRUCTURE, 2" DIA., GALVANIZED STEEL	FOOT	250			250	
81300800	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18" X 12" X 6"	EACH	1			1	
81603081	UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE	FOOT	17625			16175	1450
82102400	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	11			11	
82105700	LUMINAIRE, SODIUM VAPOR, HIGH MAST, HORIZONTAL MOUNT, 750 WATT	EACH	6				6
82105800	LUMINAIRE, SODIUM VAPOR, HIGH MAST, HORIZONTAL MOUNT, 1000 WATT	EACH	6			6	
83050825	LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 15 FT. DAVIT ARM	EACH	11			11	
83502500	LIGHT TOWER, 100 FT. MOUNTING HEIGHT, LUMINAIRE MT. - 8	EACH	4			2	2
83600365	LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 10" X 8"	EACH	20			20	
83700300	LIGHT TOWER FOUNDATION, 48" DIAMETER	FOOT	70			39	31
83800205	BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	11			11	
84200500	REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	1			1	

\* - SPECIALTY ITEM

E-QTY2



USER NAME: #USER#  
 PLOT SCALE: #SCALE#  
 PRINT DATE: 3/23/2018

DESIGNED - HM  
 DRAWN - GJ  
 CHECKED - HS  
 DATE: 03-21-2017

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES  
 SHEET 2 OF 3

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2016-017L	VARIOUS	88	5
CONTRACT NO. 62C35			ILLINOIS FED. AID PROJECT	

Section: 2016-017L  
 Contract No.: 62C35  
 C-91-339-16

CONSTRUCTION CODE			
90% FED 10% STATE	80% FED 20% STATE	90% FED 10% STATE	80% FED 20% STATE
ROADWAY	ROADWAY	HIGHWAY LIGHTING	HIGHWAY LIGHTING
0005	0005	0021	0021
COOK	McHENRY	COOK	McHENRY

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	90% FED 10% STATE	80% FED 20% STATE	90% FED 10% STATE	80% FED 20% STATE
				ROADWAY	ROADWAY	HIGHWAY LIGHTING	HIGHWAY LIGHTING
				0005	0005	0021	0021
				COOK	McHENRY	COOK	McHENRY
84200804	REMOVAL OF POLE FOUNDATION	EACH	10			10	
84400105	RELOCATE EXISTING LIGHTING UNIT	EACH	9			9	
87300748	ELECTRIC CABLE IN CONDUIT, COMMUNICATION, NO. 19 100 PAIR	FOOT	1200			1200	
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1100			1100	
X0900024	TEMPORARY WETLAND CROSSING DEVICE	LSUM	1	1			
X1400196	REMOVAL OF HIGH MAST LUMINAIRES, SALVAGE	EACH	15			9	6
X1400191	MAINTAIN LIGHTING SYSTEM, LOCATION 1	CAL MO	12			12	
X1400192	MAINTAIN LIGHTING SYSTEM, LOCATION 2	CAL MO	12				12
X1400193	MAINTAIN LIGHTING SYSTEM, LOCATION 3	CAL MO	12			12	
X2501800	SEEDING, CLASS 4 (MODIFIED)	ACRE	0.75	0.69	0.06		
X7010216	TRAFFIC CONTROL AND PROTECTION, SPECIAL	LSUM	1	0.4	0.6		
X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	LSUM	1	1			
X7040650	REMOVE TEMPORARY CONCRETE BARRIER	FOOT	150	150			
X8130115	DRILL EXISTING JUNCTION BOX	EACH	2			2	
X8130112	JUNCTION BOX TYPE J	EACH	2			2	
X8130125	REMOVE EXISTING JUNCTION BOX	EACH	9			9	
X8420502	REMOVAL OF LIGHT TOWER, NO SALVAGE	EACH	5			3	2
X8420510	REMOVAL OF TOWER FOUNDATION	EACH	14			12	2
X8951011	REMOVAL AERIAL CABLE	FOOT	5125			5125	
Z0013797	STABILIZED CONSTRUCTION ENTRANCE	SQ YD	88	88			
Z0033020	LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	41			41	
Ø 20076600	TRAINEEES	Hour	1,000	1,000			
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	102.8	51.4	51.4		
Ø 20076604	TRAINEEES TRAINING PROGRAM GRADUATES	Hour	1,000	1,000			
X1400336	TEMPORARY CABLE INSTALLATION AND REMOVAL	FOOT	1200			1200	

23 Ø 0042

\* - SPECIALTY ITEM

E-QTY3



USER NAME: #USGJ#  
 PLOT SCALE: #SCALE#  
 PLOT DATE: 3/23/2016

DESIGNED - HM  
 DRAWN - GJ  
 CHECKED - HS  
 DATE - 03-21-2017

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES  
 SHEET 3 OF 3

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2016-017L	VARIOUS	88	6
			CONTRACT NO. 62C35	
ILLINOIS FED. AID PROJECT				

## 62C35, Tower Replacement Grouped per Location

### Tower Information

Item #	Lighting Controller "L" Number	Lighting Controller Designation	TOWER Structure No.	County	Nearby City or Village	Main Route	Cross St	Existing Latitude	Existing Longitude	PROPOSED HIGH MAST LUMINAIRE (QUANTITY-WATTAGE)	EXISTING LUMINAIRE VOLTAGE	EXISTING High Mast Luminaires to be SALVAGED	EXISTING TOWERS TO BE REMOVED NO SALVAGE	EXISTING TOWERS THAT HAVE BEEN REMOVED	EXISTING Foundations to be Removed	EXISTING TOWER, HEIGHT (FEET)	PROPOSED TOWER, HEIGHT (FEET)	PROPOSED RECOMMENDED FOUNDATION Depth (FEET)	PROPOSED FOUNDATION DIAMETER (INCHES)
2	L0495	X	3XIJ6	Cook	Matteson	I-57	US 30 (Lincoln Hwy)	41.508566	-87.742884	-	240	-	-	X	X	-	-	-	-
3	L0495	X	2XGH4	Cook	Matteson	I-57	US 30 (Lincoln Hwy)	41.503076	-87.743075	-	240	-	-	X	X	-	-	-	-
4	L0495	X	2XAB2	Cook	Matteson	I-57	US 30 (Lincoln Hwy)	41.507403	-87.740697	-	240	-	-	X	X	-	-	-	-
5	L0495	X	4XGH2	Cook	Matteson	I-57	US 30 (Lincoln Hwy)	41.504073	-87.742039	-	240	-	-	X	X	-	-	-	-
6	L0495	X	2XIJ2	Cook	Matteson	I-57	US 30 (Lincoln Hwy)	41.506426	-87.738086	-	240	-	-	X	X	-	-	-	-
7	L0495	X	3XEF10	Cook	Matteson	I-57	US 30 (Lincoln Hwy)	41.506392	-87.745721	-	240	-	-	X	X	-	-	-	-
8	L0495	X	3XEF11	Cook	Matteson	I-57	US 30 (Lincoln Hwy)	41.505858	-87.747123	-	240	-	-	X	X	-	-	-	-
9	L0495	X	4XGH3	Cook	Matteson	I-57	US 30 (Lincoln Hwy)	41.502723	-87.741960	-	240	-	-	X	X	-	-	-	-
17	L0495	X	2XGH1	Cook	Matteson	I-57	US 30 (Lincoln Hwy)	41.504970	-87.740555	-	240	-	-	X	X	-	-	-	-
21	L0495	X	3XIJ5	Cook	Matteson	I-57	US 30 (Lincoln Hwy)	41.505670	-87.744417	-	240	3-750W	X	-	X	110	-	-	-
27	L1355	L	3LAB3	Cook	Chicago	I-290	Central Ave	41.871422	-87.760784	3-1000W	240	3-1000W	X	-	X	100	100	22.5	48
30	L1355	L	3LCD3	Cook	Chicago	I-290	Central Ave	41.870812	-87.768625	3-1000W	240	3-1000W	X	-	X	100	100	16.5	48
36	L2305	MA	3MACD1	McHenry	Crystal Lake	US 14 (NW Hwy)	IL 31	42.225899	-88.287773	3-750W	240	3-750W	X	-	X	100	100	15.5	48
37	L2305	MA	3MAEF2	McHenry	Crystal Lake	US 14 (NW Hwy)	IL 31	42.225388	-88.287065	3-750W	240	3-750W	X	-	X	100	100	15.5	48

E-TLC1



USER NAME = *USER*	DESIGNED - HM	REVISED -
	DRAWN - GJ	REVISED -
PLOT SCALE = *SCALE*	CHECKED - HS	REVISED -
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TOWER REPLACEMENT GROUPED PER LOCATION**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2016-017L	VARIOUS	88	7
CONTRACT NO. 62C35				
ILLINOIS FED. AID PROJECT				

## MAINTENANCE OF TRAFFIC GENERAL NOTES

1. THE CONTRACTOR'S VEHICLES MUST ALWAYS MOVE WITH AND NOT AGAINST OR ACROSS THE FLOW OF TRAFFIC, AND THEY MUST ENTER OR LEAVE WORK AREAS IN A MANNER WHICH IS NOT HAZARDOUS TO TRAFFIC AND WILL NOT INTERFERE WITH NORMAL TRAFFIC. THE CONTRACTOR'S VEHICLES MUST NOT PARK OR STOP EXCEPT WITHIN DESIGNATED WORK AREAS. PERSONAL VEHICLES ARE NOT PERMITTED TO PARK WITHIN THE RIGHT-OF-WAY EXCEPT IN AREAS DESIGNATED BY THE COMMISSIONER.
2. THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND TRAFFIC CONTROL DEVICES SHALL BE FIELD FIT TO CONDITIONS AS DIRECTED BY THE ENGINEER.
3. ALL SIGNS THAT ARE TO BE IN PLACE MORE THAN 4 DAYS SHALL BE MOUNTED ON METAL POSTS WHEN POSSIBLE, 7 FEET FROM THE TOP OF PAVEMENT TO THE BOTTOM OF THE SIGN, AND DRIVEN A MINIMUM OF 3 FEET INTO THE GROUND. A DIGGER LOCATE SHALL BE PERFORMED PRIOR TO THE INSTALLATION OF THE POSTS. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
4. EXISTING TRAFFIC CONTROL SIGNS AND DEVICES SHALL BE REMOVED OR RELOCATED BY THE CONTRACTOR AFTER THE TRAFFIC CONTROL REQUIREMENTS ARE MET OR AS AUTHORIZED BY THE ENGINEER; ANY SIGNS OR DEVICES LEFT IN PLACE ARE TO BE PROTECTED FROM DAMAGE AND MAINTAINED.
5. BORING PITS ARE TO BE PLACED AT LEAST 15' FROM THE TRAVELED WAY ON THE MAINLINE TO ELIMINATE THE NEED FOR TRAFFIC CONTROL AND PROTECTION PER IDOT HIGHWAY STANDARD 701106-02.
6. USE IDOT DISTRICT 1 STANDARD TC-17 FOR PARTIAL RAMP CLOSURES AND SHOULDER CLOSURES ON I-57 AND I-290 WHERE REQUIRED.
7. IF BORING PIT IS LOCATED WITHIN THE CLEAR ZONE BUT OUTSIDE OF CONSTRUCTION CLEAR ZONE, TRAFFIC CONTROL AND PROTECTION MUST REMAIN IN PLACE ADJACENT TO BORING PIT UNTIL EXCAVATED AREA IS FILLED.
8. TOWER ASSEMBLY LAYDOWN AREAS MUST BE APPROVED BY THE ENGINEER PRIOR TO USE. ADDITIONAL TRAFFIC CONTROL WILL NOT BE PROVIDED SOLELY FOR TOWER LAYDOWN AREAS.
9. THE CONTRACTOR SHALL CONTACT THE IDOT D1 ARTERIAL TRAFFIC CONTROL SUPERVISOR AT CORY.JUCIUS@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

THE FOLLOWING HIGHWAY STANDARDS ARE TO BE APPLIED TO EACH SITE:

I-57 AT US-30: TC-17, 701106-02, 701426-09, 701601-09

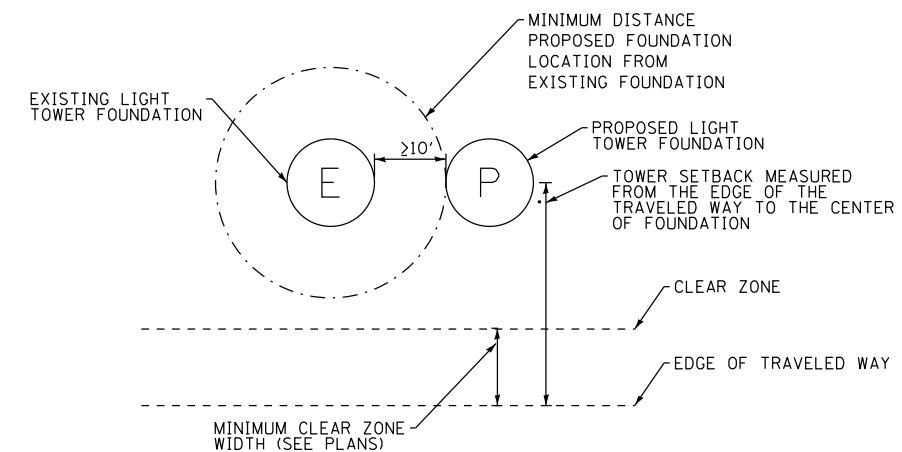
US-14 AT IL-31: TC-10, TC-17, TC-22, 701101-05, 701601-09, 701701-10, 704001-08, 782006

I-290 AT CENTRAL AVE: TC-08, TC-09, TC-17, TC-18, 701400-09, 701601-10, 701428-01, 701446-08, 704001-08, 782006-00

## EROSION AND SEDIMENT CONTROL GENERAL NOTES

1. THE CONSTRUCTION LIMITS WILL BE STAKED AND APPROVED BY THE ENGINEER PRIOR TO COMMENCING CONSTRUCTION. THE CONSTRUCTION LIMITS MAY BE ADJUSTED BY THE ENGINEER TO PRESERVE TREES AND NO ADDITIONAL COMPENSATION WILL BE PAID TO THE CONTRACTOR FOR CHANGES IN CONSTRUCTION LIMITS.
2. THE CONTRACTOR SHALL INSTALL TEMPORARY EROSION CONTROL MEASURES PRIOR TO THE START OF CONSTRUCTION OPERATIONS WHICH WILL POTENTIALLY CREATE ERODIBLE CONDITIONS. PLACEMENT AND MAINTENANCE OF TEMPORARY EROSION CONTROL SYSTEMS WILL BE UTILIZED THROUGHOUT THE CONSTRUCTION LIMITS.
3. THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR MAINTENANCE OF ALL SOIL EROSION CONTROL DURING CONSTRUCTION.
4. TEMPORARY EROSION CONTROL MEASURES SHALL BE CONSTRUCTED AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER. THE WORK SHALL BE COMPLETED IN ACCORDANCE WITH SECTION 280 OF THE STANDARD SPECIFICATIONS AND CONTRACT SPECIAL PROVISIONS.
5. ALL EROSION CONTROL MEASURES WILL BE MAINTAINED IN ACCORDANCE WITH THE IDOT EROSION AND SEDIMENT CONTROL FIELD GUIDE FOR CONSTRUCTION INSPECTION AND IDOT'S BEST MANAGEMENT PRACTICES.
6. THE CONTRACTOR SHALL PERFORM ALL WORK AS DIRECTED BY THE ENGINEER AND AS SHOWN IN HIGHWAY STANDARD 280001.
7. THE EROSION CONTROL MEASURES SHOWN ARE A REPRESENTATION OF SUGGESTED MEASURES. DEVIATIONS FROM THIS PLAN ARE TO BE EXPECTED PENDING A JOBSITE INSPECTION BETWEEN THE CONTRACTOR AND THE DEPARTMENT.
8. TEMPORARY STOCKPILE LOCATIONS SHALL BE APPROVED BY THE ENGINEER AND WILL REQUIRE PERIMETER EROSION BARRIER AND TEMPORARY SEEDING WHICH ARE INCLUDED IN THE COST OF DIRECTIONAL BORE.
9. THE CONTRACTOR SHALL INSTALL AND MAINTAIN INLET AND PIPE PROTECTION AT ALL LOCATIONS SHOWN IN PLANS PRIOR TO THE START OF WORK. THE INLET AND PIPE PROTECTION SHALL BE MAINTAINED UNTIL NO LONGER REQUIRED OR AS DIRECTED BY THE ENGINEER.
10. DURING CONSTRUCTION OPERATIONS, WHEN ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF DITCHES, GUTTERS OR DRAINAGE STRUCTURES SO THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED, THE MATERIAL SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY.
11. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES SHALL BE FREE FROM DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF INLET AND PIPE PROTECTION.
12. FOR PERMANENT EROSION CONTROL, THE CONTRACTOR SHALL PLACE TOPSOIL SO THAT IS HAS A BOND WITH THE EXISTING SURFACE TO WHICH IT IS APPLIED. IT SHALL BE DISKED, RAKED, OR OTHERWISE BROKEN UP IF NECESSARY TO PROVIDE SUCH BOND.

### LIGHT TOWER FOUNDATION ZONE OF INFLUENCE DETAIL



C-00-CivilGenNotes.dgn

**JACOBS**

USER NAME = malanesj	DESIGNED - SJM	REVISED -
	DRAWN - SJM	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - WJB	REVISED -
PLOT DATE = 4/19/2018	DATE - 10-18-2017	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CIVIL SITE PLAN  
GENERAL NOTES**

SCALE: N.T.S.    SHEET    OF    SHEETS    STA.    TO    STA.

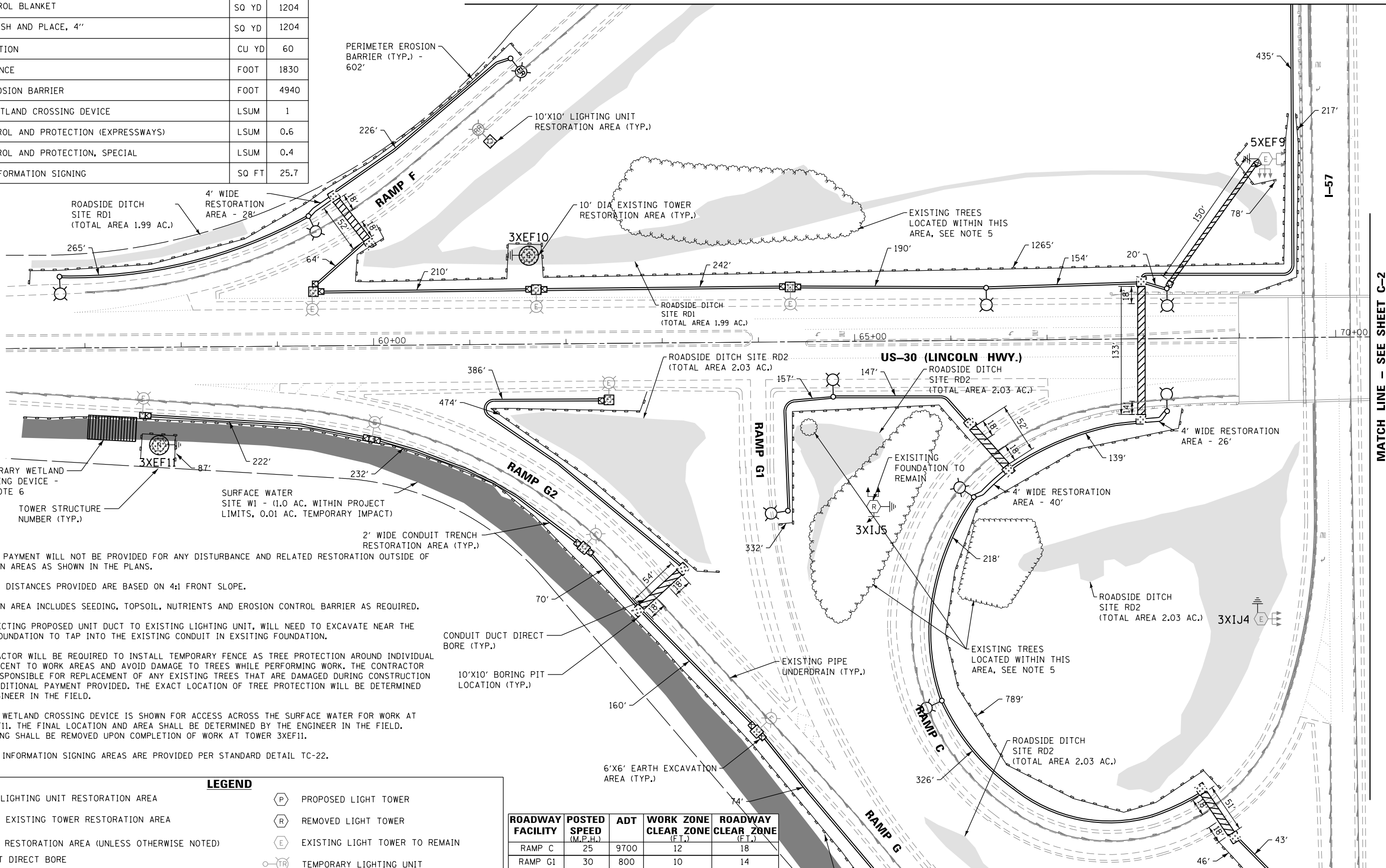
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2016-017L		88	8
CONTRACT NO. 62C35				
ILLINOIS FED. AID PROJECT				

**C-00**



PAY ITEM DESCRIPTION	UNIT	QTY
SEEDING, CLASS 4 (MODIFIED)	ACRE	0.25
EROSION CONTROL BLANKET	SQ YD	1204
TOPSOIL FURNISH AND PLACE, 4"	SQ YD	1204
EARTH EXCAVATION	CU YD	60
TEMPORARY FENCE	FOOT	1830
PERIMETER EROSION BARRIER	FOOT	4940
TEMPORARY WETLAND CROSSING DEVICE	LSUM	1
TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	LSUM	0.6
TRAFFIC CONTROL AND PROTECTION, SPECIAL	LSUM	0.4
TEMPORARY INFORMATION SIGNING	SQ FT	25.7

MATCH LINE - SEE SHEET C-4



MATCH LINE - SEE SHEET C-2

**NOTES:**

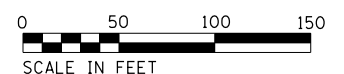
- ADDITIONAL PAYMENT WILL NOT BE PROVIDED FOR ANY DISTURBANCE AND RELATED RESTORATION OUTSIDE OF RESTORATION AREAS AS SHOWN IN THE PLANS.
- CLEAR ZONE DISTANCES PROVIDED ARE BASED ON 4:1 FRONT SLOPE.
- RESTORATION AREA INCLUDES SEEDING, TOPSOIL, NUTRIENTS AND EROSION CONTROL BARRIER AS REQUIRED.
- WHEN CONNECTING PROPOSED UNIT DUCT TO EXISTING LIGHTING UNIT, WILL NEED TO EXCAVATE NEAR THE EXISTING FOUNDATION TO TAP INTO THE EXISTING CONDUIT IN EXISTING FOUNDATION.
- THE CONTRACTOR WILL BE REQUIRED TO INSTALL TEMPORARY FENCE AS TREE PROTECTION AROUND INDIVIDUAL TREES ADJACENT TO WORK AREAS AND AVOID DAMAGE TO TREES WHILE PERFORMING WORK. THE CONTRACTOR WILL BE RESPONSIBLE FOR REPLACEMENT OF ANY EXISTING TREES THAT ARE DAMAGED DURING CONSTRUCTION WITH NO ADDITIONAL PAYMENT PROVIDED. THE EXACT LOCATION OF TREE PROTECTION WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.
- TEMPORARY WETLAND CROSSING DEVICE IS SHOWN FOR ACCESS ACROSS THE SURFACE WATER FOR WORK AT TOWER 3XEF11. THE FINAL LOCATION AND AREA SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD. THE CROSSING SHALL BE REMOVED UPON COMPLETION OF WORK AT TOWER 3XEF11.
- TEMPORARY INFORMATION SIGNING AREAS ARE PROVIDED PER STANDARD DETAIL TC-22.

**LEGEND**

- 10'x10' LIGHTING UNIT RESTORATION AREA
- 10' DIA. EXISTING TOWER RESTORATION AREA
- 2' WIDE RESTORATION AREA (UNLESS OTHERWISE NOTED)
- CONDUIT DIRECT BORE
- 10'x10' BORING PIT LOCATION (UNLESS OTHERWISE NOTED)
- EXISTING UNIT DUCT
- 6'x6' EARTH EXCAVATION AREA WITH RESTORATION
- PROPOSED LIGHT TOWER
- REMOVED LIGHT TOWER
- EXISTING LIGHT TOWER TO REMAIN
- TEMPORARY LIGHTING UNIT
- EXISTING LIGHTING UNIT
- PROPOSED LIGHTING UNIT

ROADWAY FACILITY	POSTED SPEED (M.P.H.)	ADT	WORK ZONE CLEAR ZONE (FT.)	ROADWAY CLEAR ZONE (FT.)
RAMP C	25	9700	12	18
RAMP G1	30	800	10	14
RAMP G2	30	800	10	14
RAMP F	30	800	10	14
US 30	45	19800	18	28

MATCH LINE - SEE SHEET C-3



C-01

C-01-157/US30.dgn



USER NAME = malanesj	DESIGNED - SJM	REVISED -
	DRAWN - SJM	REVISED -
PLOT SCALE = 100.0000' / 1" =	CHECKED - WJB	REVISED -
PLOT DATE = 3/22/2018	DATE - 10-18-2017	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

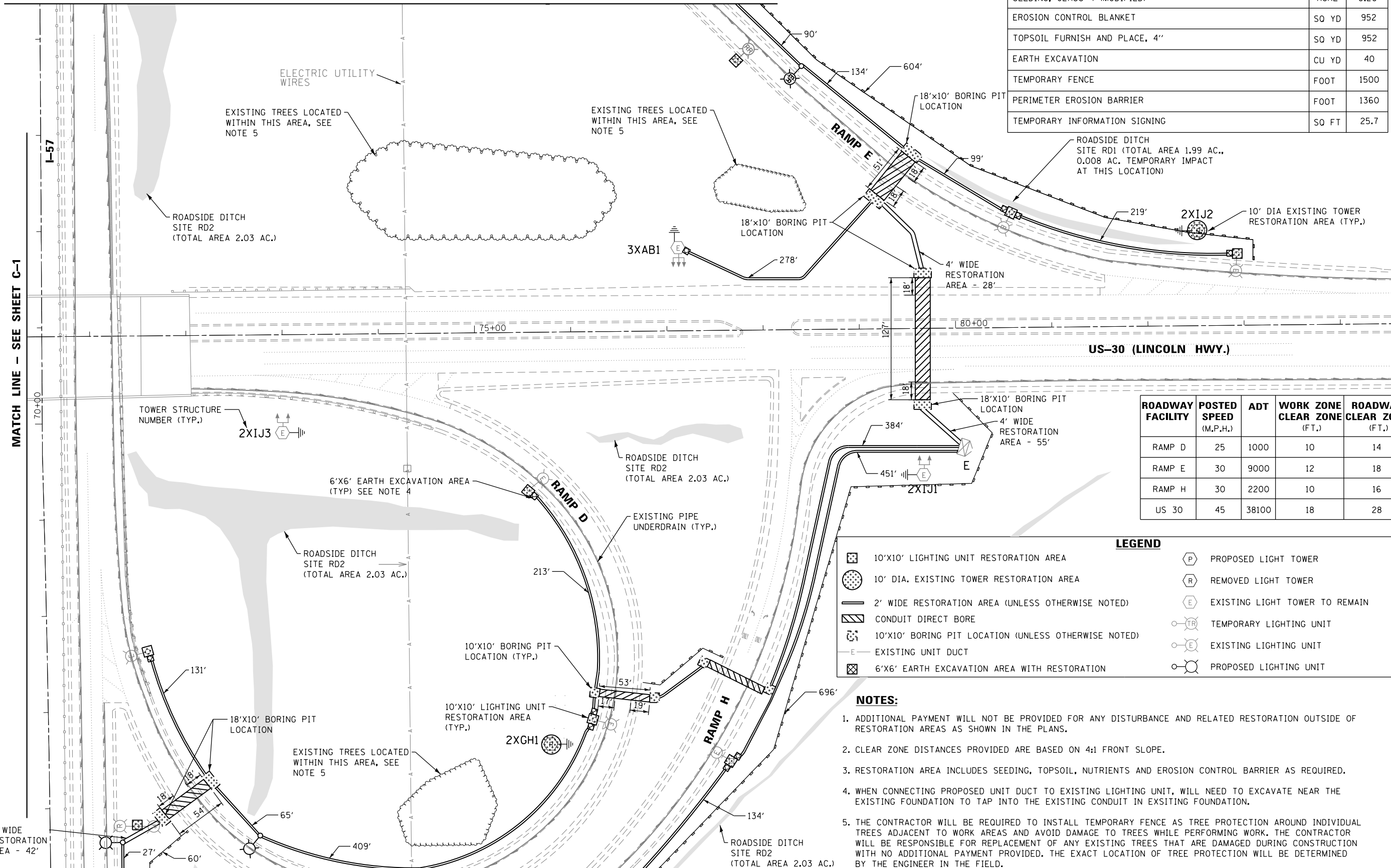
CIVIL SITE PLAN  
I-57 / US-30 - SHEET 1 OF 4

SCALE: 1"=50' SHEET OF SHEETS STA. 56+18 TO STA. 70+36

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2016-017L	COOK	88	9
CONTRACT NO. 62C35				
ILLINOIS FED. AID PROJECT				

MATCH LINE - SEE SHEET C-4

PAY ITEM	DESCRIPTION	UNIT	QTY
SEEDING, CLASS 4 (MODIFIED)		ACRE	0.20
EROSION CONTROL BLANKET		SQ YD	952
TOPSOIL FURNISH AND PLACE, 4"		SO YD	952
EARTH EXCAVATION		CU YD	40
TEMPORARY FENCE		FOOT	1500
PERIMETER EROSION BARRIER		FOOT	1360
TEMPORARY INFORMATION SIGNING		SQ FT	25.7



US-30 (LINCOLN HWY.)

ROADWAY FACILITY	POSTED SPEED (M.P.H.)	ADT	WORK ZONE CLEAR ZONE (FT.)	ROADWAY CLEAR ZONE (FT.)
RAMP D	25	1000	10	14
RAMP E	30	9000	12	18
RAMP H	30	2200	10	16
US 30	45	38100	18	28

**LEGEND**

	10'X10' LIGHTING UNIT RESTORATION AREA		PROPOSED LIGHT TOWER
	10' DIA. EXISTING TOWER RESTORATION AREA		REMOVED LIGHT TOWER
	2' WIDE RESTORATION AREA (UNLESS OTHERWISE NOTED)		EXISTING LIGHT TOWER TO REMAIN
	CONDUIT DIRECT BORE		TEMPORARY LIGHTING UNIT
	10'X10' BORING PIT LOCATION (UNLESS OTHERWISE NOTED)		EXISTING LIGHTING UNIT
	EXISTING UNIT DUCT		PROPOSED LIGHTING UNIT
	6'X6' EARTH EXCAVATION AREA WITH RESTORATION		

**NOTES:**

- ADDITIONAL PAYMENT WILL NOT BE PROVIDED FOR ANY DISTURBANCE AND RELATED RESTORATION OUTSIDE OF RESTORATION AREAS AS SHOWN IN THE PLANS.
- CLEAR ZONE DISTANCES PROVIDED ARE BASED ON 4:1 FRONT SLOPE.
- RESTORATION AREA INCLUDES SEEDING, TOPSOIL, NUTRIENTS AND EROSION CONTROL BARRIER AS REQUIRED.
- WHEN CONNECTING PROPOSED UNIT DUCT TO EXISTING LIGHTING UNIT, WILL NEED TO EXCAVATE NEAR THE EXISTING FOUNDATION TO TAP INTO THE EXISTING CONDUIT IN EXISTING FOUNDATION.
- THE CONTRACTOR WILL BE REQUIRED TO INSTALL TEMPORARY FENCE AS TREE PROTECTION AROUND INDIVIDUAL TREES ADJACENT TO WORK AREAS AND AVOID DAMAGE TO TREES WHILE PERFORMING WORK. THE CONTRACTOR WILL BE RESPONSIBLE FOR REPLACEMENT OF ANY EXISTING TREES THAT ARE DAMAGED DURING CONSTRUCTION WITH NO ADDITIONAL PAYMENT PROVIDED. THE EXACT LOCATION OF TREE PROTECTION WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.
- TEMPORARY INFORMATION SIGNING AREAS ARE PROVIDED PER STANDARD DETAIL TC-22.



MATCH LINE - SEE SHEET C-1

MATCH LINE - SEE SHEET C-3

C-02 - 157RUS30.dgn



USER NAME = malanesj	DESIGNED - SJM	REVISED -
PLOT SCALE = 100.0000' / 1"	DRAWN - SJM	REVISED -
PLOT DATE = 3/22/2018	CHECKED - WJB	REVISED -
	DATE - 10-18-2017	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CIVIL SITE PLAN  
I-57 / US-30 - SHEET 2 OF 4  
SCALE: 1"=50' SHEET OF SHEETS STA. 70+36 TO STA. 84+53

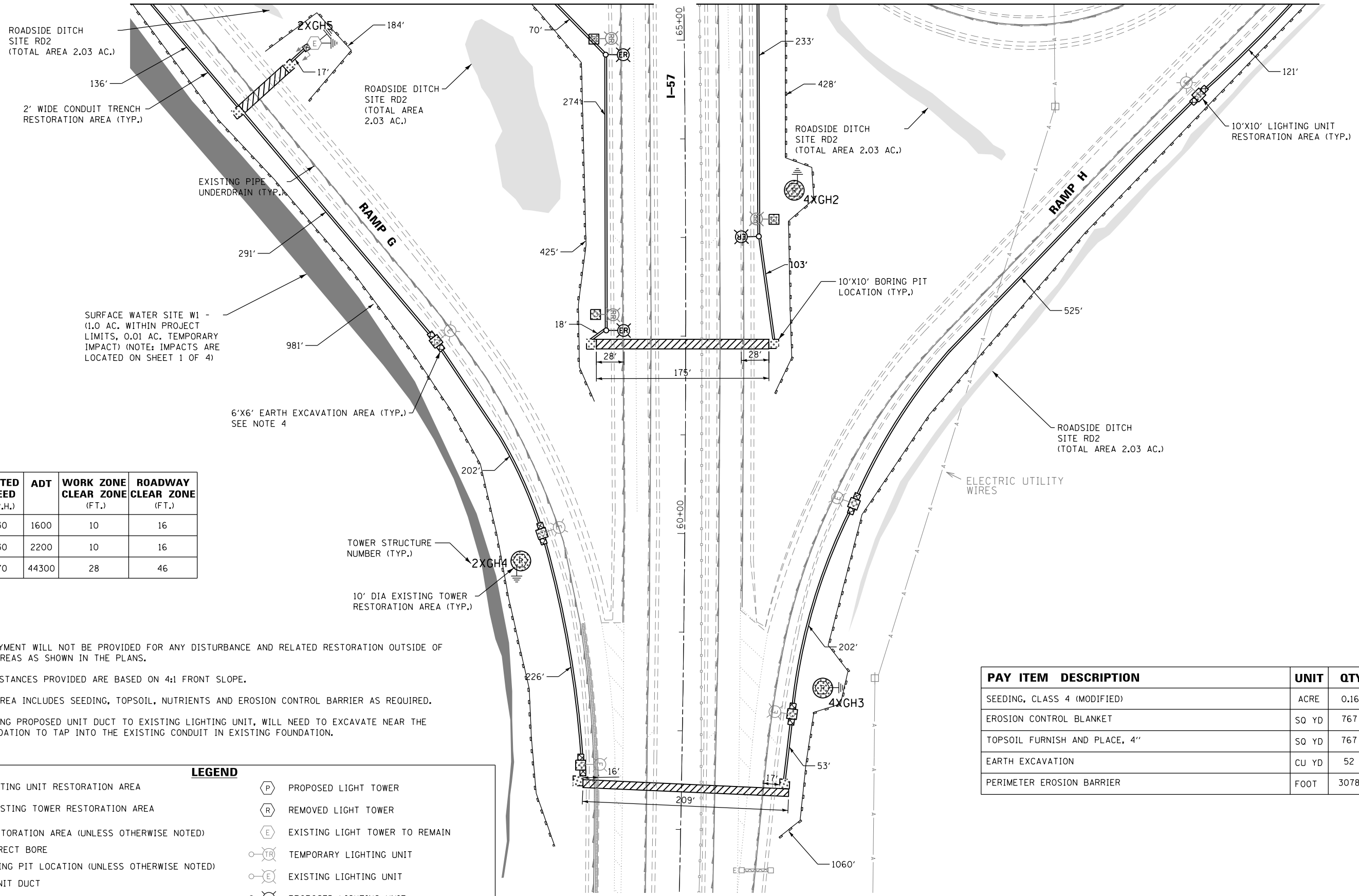
F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2016-017L	COOK	88	10

CONTRACT NO. 62C35  
ILLINOIS FED. AID PROJECT

C-02

MATCH LINE - SEE SHEET C-1

MATCH LINE - SEE SHEET C-2



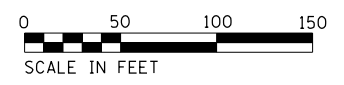
ROADWAY FACILITY	POSTED SPEED (M.P.H.)	ADT	WORK ZONE CLEAR ZONE (FT.)	ROADWAY CLEAR ZONE (FT.)
RAMP G	30	1600	10	16
RAMP H	30	2200	10	16
I-57	70	44300	28	46

**NOTES:**

- ADDITIONAL PAYMENT WILL NOT BE PROVIDED FOR ANY DISTURBANCE AND RELATED RESTORATION OUTSIDE OF RESTORATION AREAS AS SHOWN IN THE PLANS.
- CLEAR ZONE DISTANCES PROVIDED ARE BASED ON 4:1 FRONT SLOPE.
- RESTORATION AREA INCLUDES SEEDING, TOPSOIL, NUTRIENTS AND EROSION CONTROL BARRIER AS REQUIRED.
- WHEN CONNECTING PROPOSED UNIT DUCT TO EXISTING LIGHTING UNIT, WILL NEED TO EXCAVATE NEAR THE EXSITING FOUNDATION TO TAP INTO THE EXISTING CONDUIT IN EXISTING FOUNDATION.

LEGEND	
	10'X10' LIGHTING UNIT RESTORATION AREA
	10' DIA. EXISTING TOWER RESTORATION AREA
	2' WIDE RESTORATION AREA (UNLESS OTHERWISE NOTED)
	CONDUIT DIRECT BORE
	10'X10' BORING PIT LOCATION (UNLESS OTHERWISE NOTED)
	EXISTING UNIT DUCT
	6'X6' EARTH EXCAVATION AREA WITH RESTORATION
	PROPOSED LIGHT TOWER
	REMOVED LIGHT TOWER
	EXISTING LIGHT TOWER TO REMAIN
	TEMPORARY LIGHTING UNIT
	EXISTING LIGHTING UNIT
	PROPOSED LIGHTING UNIT

PAY ITEM DESCRIPTION	UNIT	QTY
SEEDING, CLASS 4 (MODIFIED)	ACRE	0.16
EROSION CONTROL BLANKET	SQ YD	767
TOPSOIL FURNISH AND PLACE, 4"	SQ YD	767
EARTH EXCAVATION	CU YD	52
PERIMETER EROSION BARRIER	FOOT	3078



C-03 - 157RUS30.dgn



USER NAME = malanesj	DESIGNED - SJM	REVISED -
	DRAWN - SJM	REVISED -
PLOT SCALE = 100.0000' / 1"	CHECKED - WJB	REVISED -
PLOT DATE = 3/12/2018	DATE - 10-18-2017	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CIVIL SITE PLAN  
I-57 / US-30 - SHEET 3 OF 4

SCALE: 1"=50' SHEET OF SHEETS STA. 56+37 TO STA. 65+37

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2016-017L	COOK	88	11
CONTRACT NO. 62C35				
ILLINOIS FED. AID PROJECT				

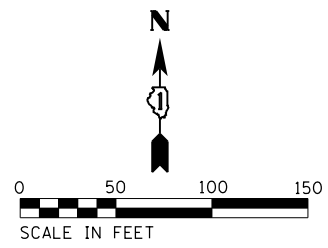
C-03

LEGEND			
	10'x10' LIGHTING UNIT RESTORATION AREA		PROPOSED LIGHT TOWER
	10' DIA. EXISTING TOWER RESTORATION AREA		REMOVED LIGHT TOWER
	2' WIDE RESTORATION AREA (UNLESS OTHERWISE NOTED)		EXISTING LIGHT TOWER TO REMAIN
	CONDUIT DIRECT BORE		TEMPORARY LIGHTING UNIT
	10'x10' BORING PIT LOCATION (UNLESS OTHERWISE NOTED)		EXISTING LIGHTING UNIT
	EXISTING UNIT DUCT		PROPOSED LIGHTING UNIT
	6'x6' EARTH EXCAVATION AREA WITH RESTORATION		

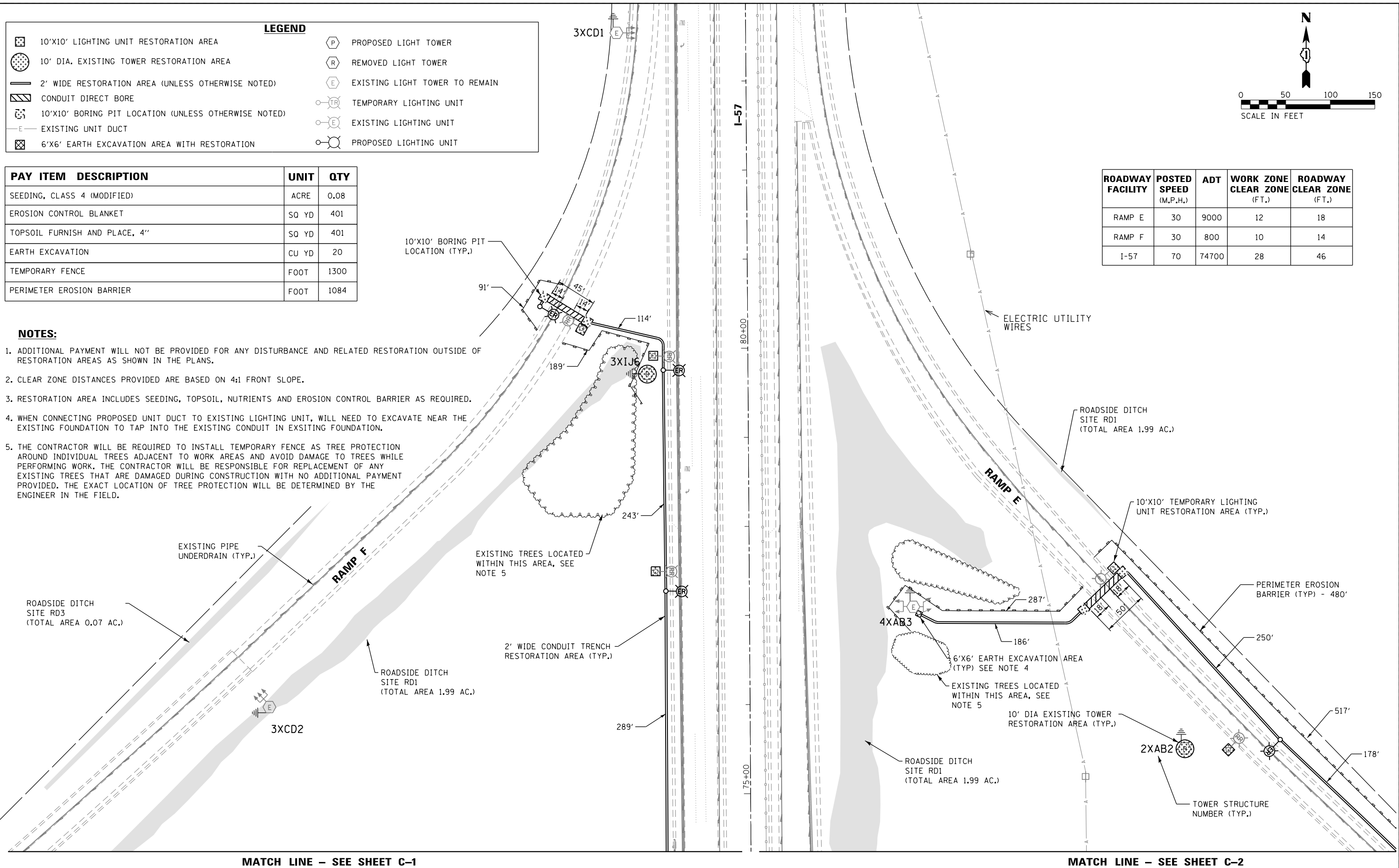
PAY ITEM DESCRIPTION	UNIT	QTY
SEEDING, CLASS 4 (MODIFIED)	ACRE	0.08
EROSION CONTROL BLANKET	SQ YD	401
TOPSOIL FURNISH AND PLACE, 4"	SQ YD	401
EARTH EXCAVATION	CU YD	20
TEMPORARY FENCE	FOOT	1300
PERIMETER EROSION BARRIER	FOOT	1084

**NOTES:**

- ADDITIONAL PAYMENT WILL NOT BE PROVIDED FOR ANY DISTURBANCE AND RELATED RESTORATION OUTSIDE OF RESTORATION AREAS AS SHOWN IN THE PLANS.
- CLEAR ZONE DISTANCES PROVIDED ARE BASED ON 4:1 FRONT SLOPE.
- RESTORATION AREA INCLUDES SEEDING, TOPSOIL, NUTRIENTS AND EROSION CONTROL BARRIER AS REQUIRED.
- WHEN CONNECTING PROPOSED UNIT DUCT TO EXISTING LIGHTING UNIT, WILL NEED TO EXCAVATE NEAR THE EXISTING FOUNDATION TO TAP INTO THE EXISTING CONDUIT IN EXSITING FOUNDATION.
- THE CONTRACTOR WILL BE REQUIRED TO INSTALL TEMPORARY FENCE AS TREE PROTECTION AROUND INDIVIDUAL TREES ADJACENT TO WORK AREAS AND AVOID DAMAGE TO TREES WHILE PERFORMING WORK. THE CONTRACTOR WILL BE RESPONSIBLE FOR REPLACEMENT OF ANY EXISTING TREES THAT ARE DAMAGED DURING CONSTRUCTION WITH NO ADDITIONAL PAYMENT PROVIDED. THE EXACT LOCATION OF TREE PROTECTION WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.



ROADWAY FACILITY	POSTED SPEED (M.P.H.)	ADT	WORK ZONE CLEAR ZONE (FT.)	ROADWAY CLEAR ZONE (FT.)
RAMP E	30	9000	12	18
RAMP F	30	800	10	14
I-57	70	74700	28	46



MATCH LINE – SEE SHEET C-1

MATCH LINE – SEE SHEET C-2

C-04-1570US30.dgn



USER NAME = malanosj	DESIGNED - SJM	REVISED -
PLOT SCALE = 100.0000' / 1" =	DRAWN - SJM	REVISED -
PLOT DATE = 3/12/2018	CHECKED - WJB	REVISED -
	DATE - 10-18-2017	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

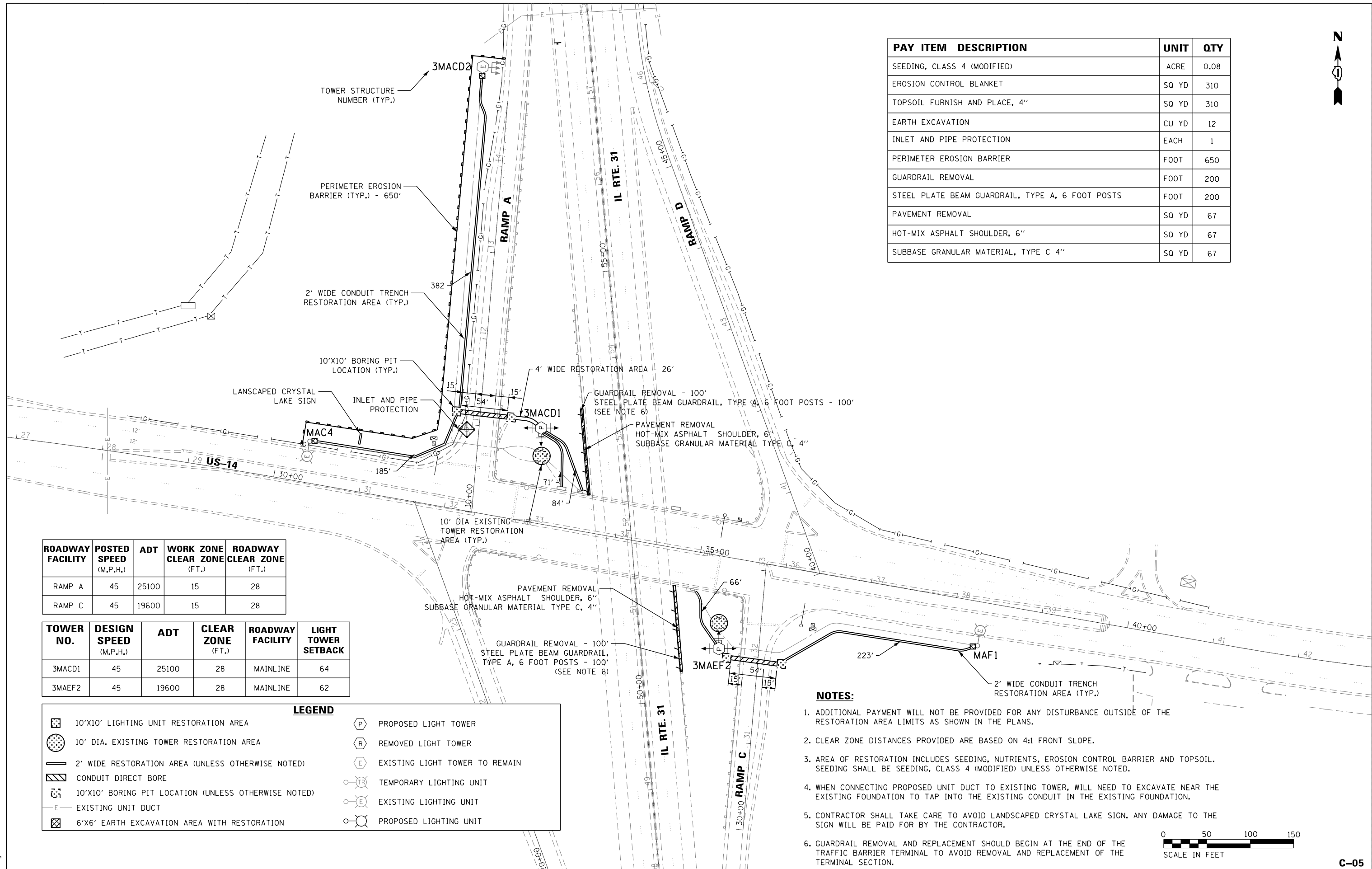
CIVIL SITE PLAN  
I-57 / US-30 – SHEET 4 OF 4  
SCALE: 1"=50' SHEET OF SHEETS STA. 74+35 TO STA. 83+87

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2016-017L	COOK	88	12
CONTRACT NO. 62C35				
ILLINOIS FED. AID PROJECT				

C-04



PAY ITEM DESCRIPTION	UNIT	QTY
SEEDING, CLASS 4 (MODIFIED)	ACRE	0.08
EROSION CONTROL BLANKET	SQ YD	310
TOPSOIL FURNISH AND PLACE, 4"	SQ YD	310
EARTH EXCAVATION	CU YD	12
INLET AND PIPE PROTECTION	EACH	1
PERIMETER EROSION BARRIER	FOOT	650
GUARDRAIL REMOVAL	FOOT	200
STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	200
PAVEMENT REMOVAL	SQ YD	67
HOT-MIX ASPHALT SHOULDER, 6"	SQ YD	67
SUBBASE GRANULAR MATERIAL, TYPE C 4"	SQ YD	67



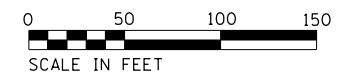
ROADWAY FACILITY	POSTED SPEED (M.P.H.)	ADT	WORK ZONE CLEAR ZONE (FT.)	ROADWAY CLEAR ZONE (FT.)
RAMP A	45	25100	15	28
RAMP C	45	19600	15	28

TOWER NO.	DESIGN SPEED (M.P.H.)	ADT	CLEAR ZONE (FT.)	ROADWAY FACILITY	LIGHT TOWER SETBACK
3MACD1	45	25100	28	MAINLINE	64
3MAEF2	45	19600	28	MAINLINE	62

LEGEND	
	10'x10' LIGHTING UNIT RESTORATION AREA
	10' DIA. EXISTING TOWER RESTORATION AREA
	2' WIDE RESTORATION AREA (UNLESS OTHERWISE NOTED)
	CONDUIT DIRECT BORE
	10'x10' BORING PIT LOCATION (UNLESS OTHERWISE NOTED)
	EXISTING UNIT DUCT
	6'x6' EARTH EXCAVATION AREA WITH RESTORATION
	PROPOSED LIGHT TOWER
	REMOVED LIGHT TOWER
	EXISTING LIGHT TOWER TO REMAIN
	TEMPORARY LIGHTING UNIT
	EXISTING LIGHTING UNIT
	PROPOSED LIGHTING UNIT

**NOTES:**

- ADDITIONAL PAYMENT WILL NOT BE PROVIDED FOR ANY DISTURBANCE OUTSIDE OF THE RESTORATION AREA LIMITS AS SHOWN IN THE PLANS.
- CLEAR ZONE DISTANCES PROVIDED ARE BASED ON 4:1 FRONT SLOPE.
- AREA OF RESTORATION INCLUDES SEEDING, NUTRIENTS, EROSION CONTROL BARRIER AND TOPSOIL. SEEDING SHALL BE SEEDING, CLASS 4 (MODIFIED) UNLESS OTHERWISE NOTED.
- WHEN CONNECTING PROPOSED UNIT DUCT TO EXISTING TOWER, WILL NEED TO EXCAVATE NEAR THE EXISTING FOUNDATION TO TAP INTO THE EXISTING CONDUIT IN THE EXISTING FOUNDATION.
- CONTRACTOR SHALL TAKE CARE TO AVOID LANDSCAPED CRYSTAL LAKE SIGN. ANY DAMAGE TO THE SIGN WILL BE PAID FOR BY THE CONTRACTOR.
- GUARDRAIL REMOVAL AND REPLACEMENT SHOULD BEGIN AT THE END OF THE TRAFFIC BARRIER TERMINAL TO AVOID REMOVAL AND REPLACEMENT OF THE TERMINAL SECTION.



C-05- US14IL31.dgn



USER NAME = malanesj	DESIGNED - SJM	REVISED -
	DRAWN - SJM	REVISED -
PLOT SCALE = 100.0000' / 1"	CHECKED - WJB	REVISED -
PLOT DATE = 3/12/2018	DATE - 10-18-2017	REVISED -

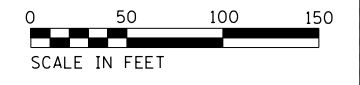
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CIVIL SITE PLAN  
US-14 / IL 31 - SHEET 1 OF 1**

SCALE: 1"=50'    SHEET OF SHEETS    STA. 398+45 TO STA. 412+62

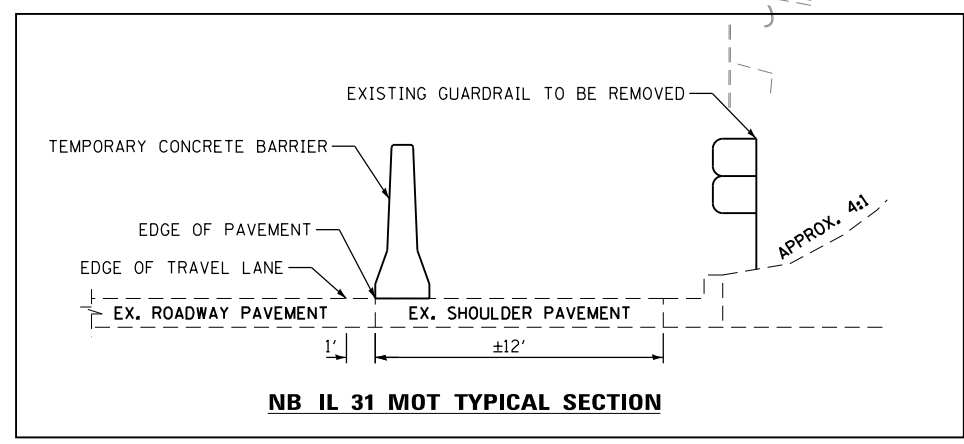
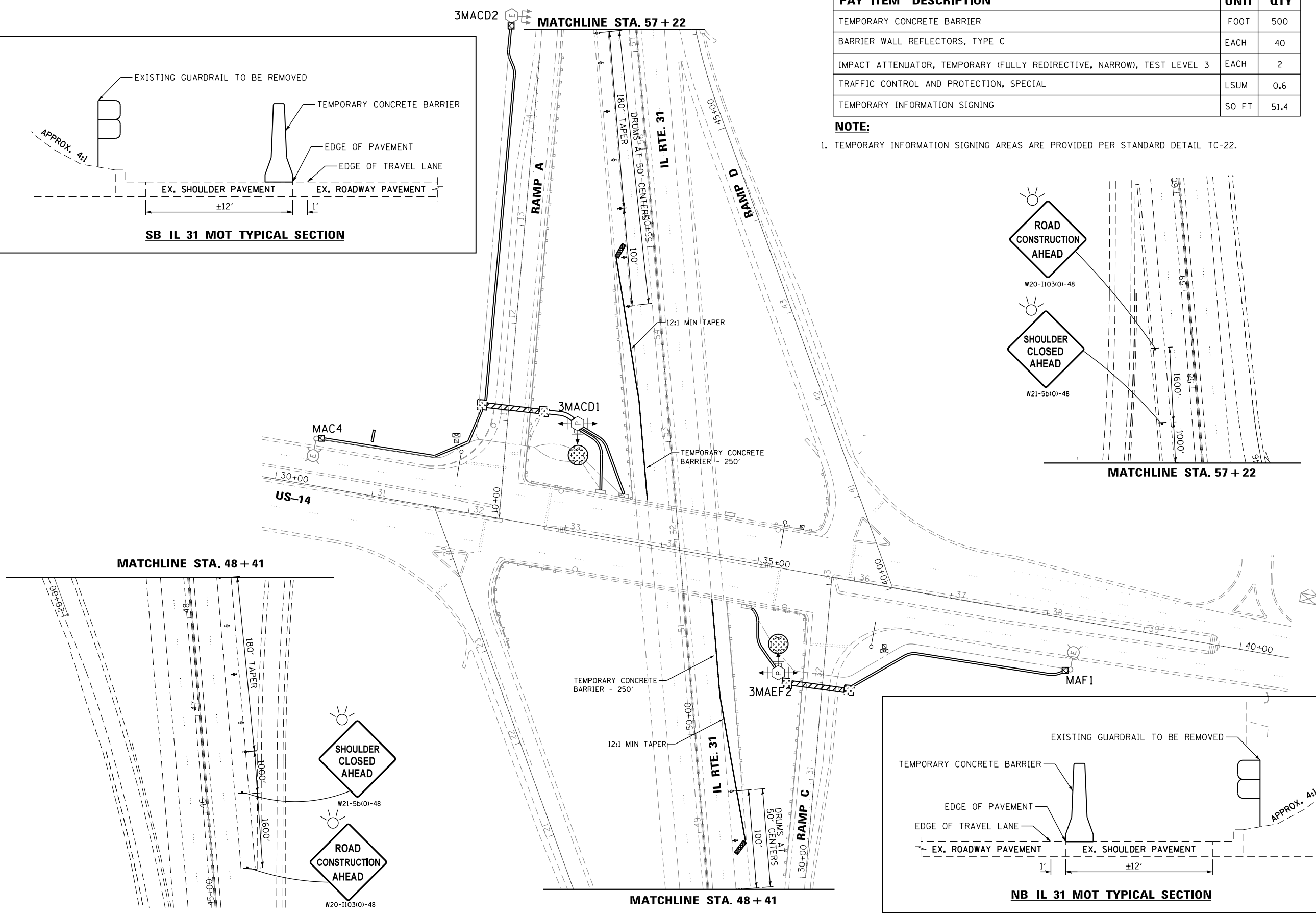
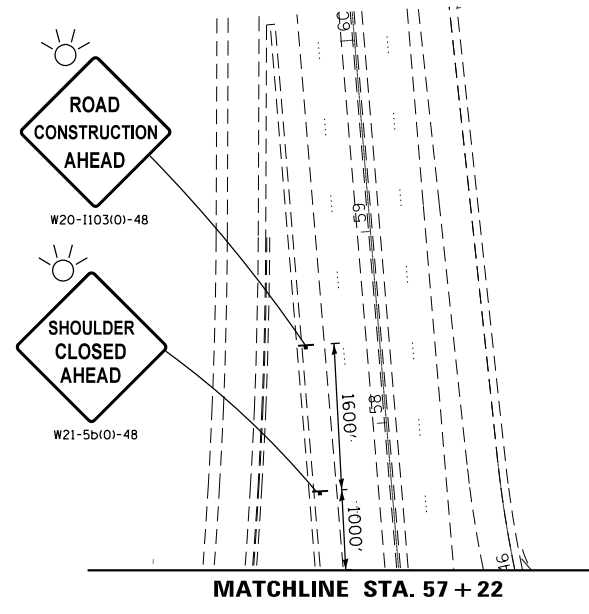
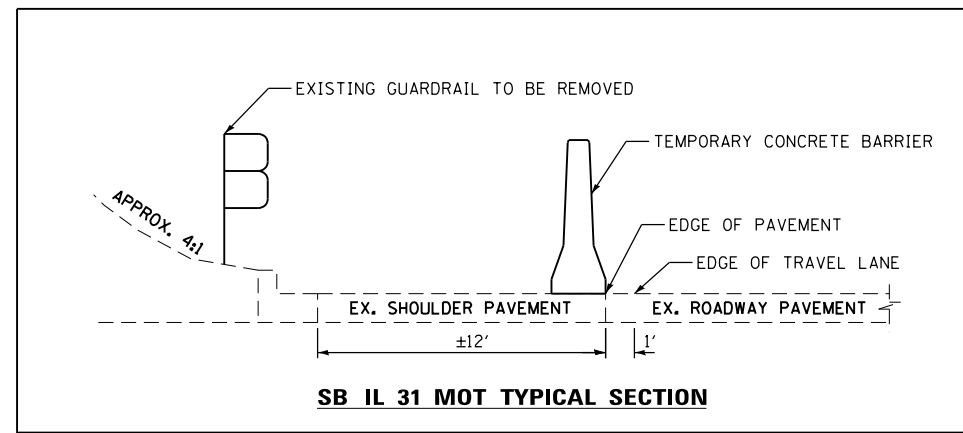
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2016-017L	MCHENRY	88	13
CONTRACT NO. 62C35				
ILLINOIS FED. AID PROJECT				

**C-05**



PAY ITEM DESCRIPTION	UNIT	QTY
TEMPORARY CONCRETE BARRIER	FOOT	500
BARRIER WALL REFLECTORS, TYPE C	EACH	40
IMPACT ATTENUATOR, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2
TRAFFIC CONTROL AND PROTECTION, SPECIAL	LSUM	0.6
TEMPORARY INFORMATION SIGNING	SO FT	51.4

**NOTE:**  
 1. TEMPORARY INFORMATION SIGNING AREAS ARE PROVIDED PER STANDARD DETAIL TC-22.



C-06- US14EIL31.MOT.dgn



USER NAME = malanesj	DESIGNED - SJM	REVISED -
PLOT SCALE = 100.0000' / in.	DRAWN - SJM	REVISED -
PLOT DATE = 3/22/2018	CHECKED - WJB	REVISED -
	DATE - 10-18-2017	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>MAINTENANCE OF TRAFFIC PLAN    US-14 / IL 31 - SHEET 2 OF 2</b>			
SCALE: 1"=50'	SHEET	OF SHEETS	STA. 398+45 TO STA. 412+62

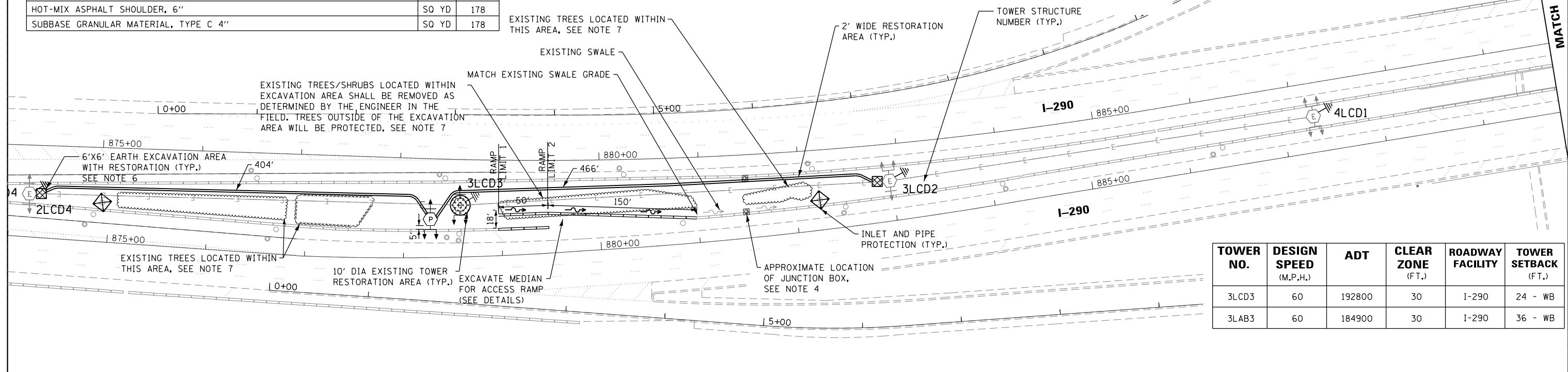
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2016-017L	MCHENRY	88	14
			CONTRACT NO. 62C35	
ILLINOIS FED. AID PROJECT				

C-06

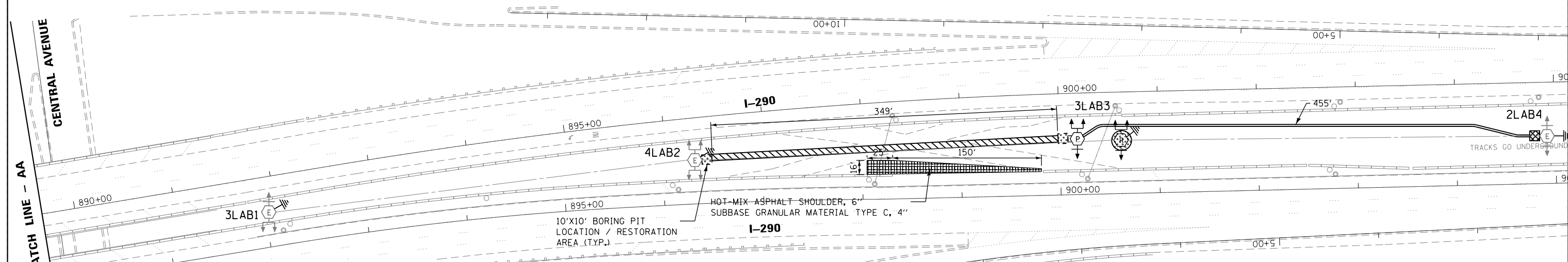
PAY ITEM DESCRIPTION	UNIT	QTY
SEEDING, CLASS 2A	ACRE	0.07
NITROGEN FERTILIZER NUTRIENT	POUND	6
PHOSPHORUS FERTILIZER NUTRIENT	POUND	6
POTASSIUM FERTILIZER NUTRIENT	POUND	6
EROSION CONTROL BLANKET	SQ YD	345
TOPSOIL FURNISH AND PLACE, 4"	SQ YD	345
INLET AND PIPE PROTECTION	EACH	2
EARTH EXCAVATION	CU YD	262
TEMPORARY FENCE	FOOT	400
HOT-MIX ASPHALT SHOULDER, 6"	SQ YD	178
SUBBASE GRANULAR MATERIAL, TYPE C 4"	SQ YD	178

**LEGEND**

	10'x10' LIGHTING UNIT RESTORATION AREA		PROPOSED LIGHT TOWER
	10' DIA. EXISTING TOWER RESTORATION AREA		REMOVED LIGHT TOWER
	2' WIDE RESTORATION AREA (UNLESS OTHERWISE NOTED)		EXISTING LIGHT TOWER TO REMAIN
	CONDUIT DIRECT BORE		TEMPORARY LIGHTING UNIT
	10'x10' BORING PIT LOCATION (UNLESS OTHERWISE NOTED)		EXISTING LIGHTING UNIT
	EXISTING UNIT DUCT		PROPOSED LIGHTING UNIT
	6'x6' EARTH EXCAVATION AREA WITH RESTORATION		



TOWER NO.	DESIGN SPEED (M.P.H.)	ADT	CLEAR ZONE (FT.)	ROADWAY FACILITY	TOWER SETBACK (FT.)
3LCD3	60	192800	30	I-290	24 - WB
3LAB3	60	184900	30	I-290	36 - WB



- NOTES:**
- ADDITIONAL PAYMENT WILL NOT BE PROVIDED FOR ANY DISTURBANCE AND RELATED RESTORATION OUTSIDE OF RESTORATION AREAS AS SHOWN IN THE PLANS.
  - CLEAR ZONE DISTANCES PROVIDED ARE BASED ON 4:1 FRONT SLOPE.
  - RESTORATION AREAS INCLUDES SEEDING, TOPSOIL, NUTRIENTS AND EROSION CONTROL BARRIER AS REQUIRED.
  - TEMPORARY SURVEILLANCE WIRE TO BE ROUTED IN JUNCTION BOXES DURING CONSTRUCTION, SEE SURVEILLANCE PLANS FOR DETAILS.
  - ADDITIONAL JUNCTION BOX LOCATED WEST OF TOWER 2LCD4 ON RAMP TO AUSTIN AVE, SEE SURVEILLANCE PLANS FOR LOCATION.
  - WHEN CONNECTING PROPOSED UNIT DUCT TO EXISTING TOWER, WILL NEED TO EXCAVATE NEAR THE EXISTING FOUNDATION TO TAP INTO THE EXISTING CONDUIT IN THE EXISTING FOUNDATION.
  - THE CONTRACTOR WILL BE REQUIRED TO INSTALL TEMPORARY FENCE AS TREE PROTECTION AROUND INDIVIDUAL TREES ADJACENT TO WORK AREAS AND AVOID DAMAGE TO TREES WHILE PERFORMING WORK. THE CONTRACTOR WILL BE RESPONSIBLE FOR REPLACEMENT OF ANY EXISTING TREES THAT ARE DAMAGED DURING CONSTRUCTION WITH NO ADDITIONAL PAYMENT PROVIDED. THE EXACT LOCATION OF TREE PROTECTION WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.
  - CONTRACTOR SHOULD TAKE PROPER MEASURE NOT TO DAMAGE SPRINKLER SYSTEM ON I-290 MEDIAN THE VALVES AND CONTROLS ARE TYPICALLY PLACED BY THE MEDIAN NORTH BARRIER WALL AND FLEXIBLE DRIP PIPES ARE SCATTERED IN THROUGHOUT THE MEDIAN. NOTIFY CDOT BEFORE START OF WORK.
  - ACCESS RAMP WILL BE AN AGGREGATE TEMPORARY CONSTRUCTION ENTRANCE DURING CONSTRUCTION. UPON COMPLETION OF THE WORK, THE AREA WILL BE PAVED WITH AN ASPHALT SHOULDER SECTION. THE FOLLOWING PAY ITEMS WILL BE USED: EARTH EXCAVATION, STABILIZED CONSTRUCTION ENTRANCE, FURNISHED EXCAVATION, SUBBASE GRANULAR MATERIAL, HOT-MIX ASPHALT SHOULDER, CONCRETE BARRIER & CONCRETE BARRIER BASE.



C-07-12100CentralAve.dgn



USER NAME = malanesj	DESIGNED - SJM	REVISED -
	DRAWN - SJM	REVISED -
PLOT SCALE = 100.0000' / 1"	CHECKED - WJB	REVISED -
PLOT DATE = 3/22/2018	DATE - 10-18-2017	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**CIVIL SITE PLAN**  
**I-290 / CENTRAL AVE. - SHEET 1 OF 3**

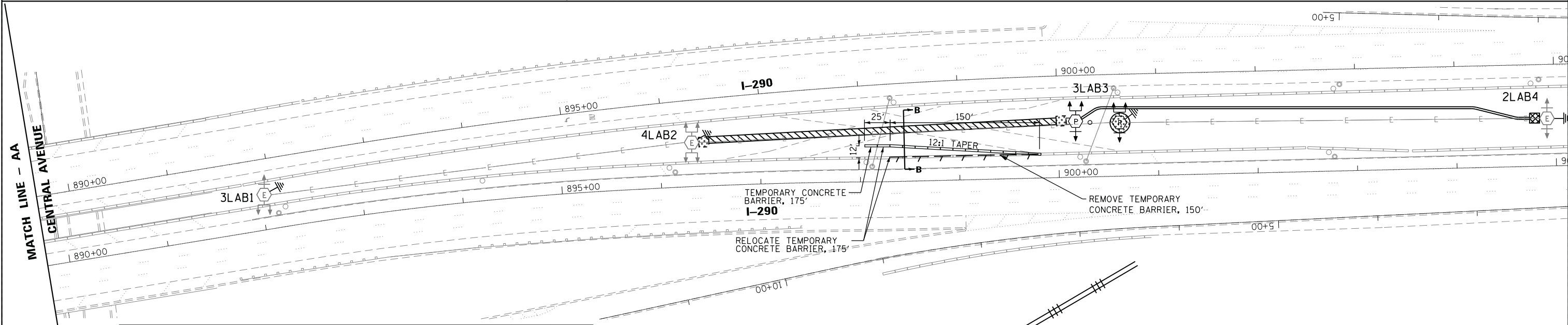
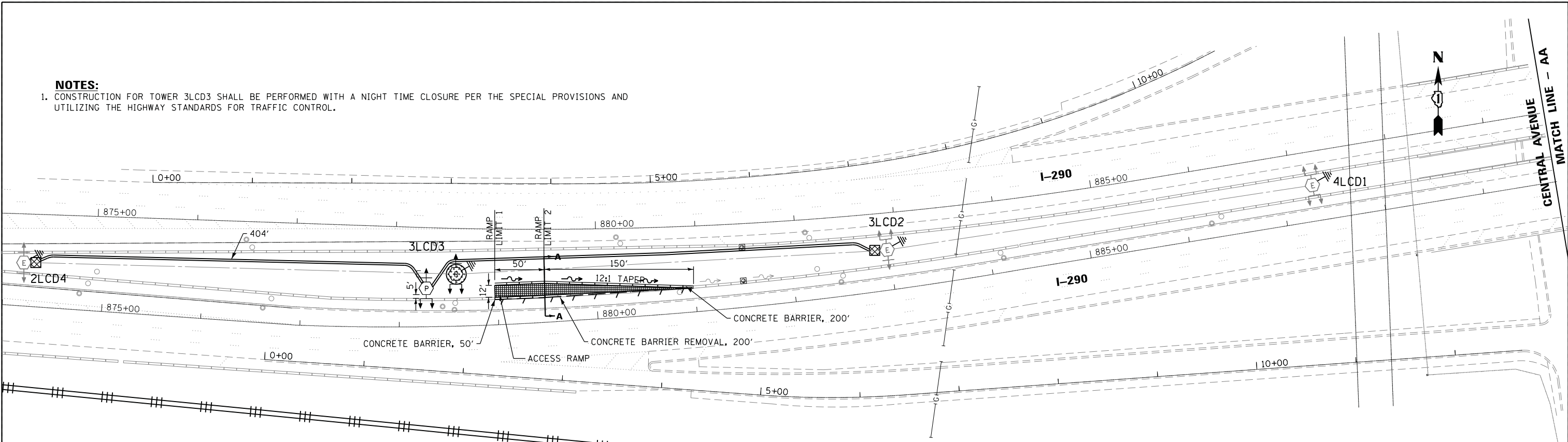
SCALE: 1"=50' SHEET OF SHEETS STA. 874+00 TO STA. 905+15

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2016-017L	COOK	88	15
CONTRACT NO. 62C35				
ILLINOIS FED. AID PROJECT				

C-07

**NOTES:**

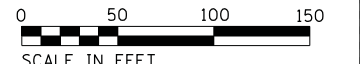
1. CONSTRUCTION FOR TOWER 3LCD3 SHALL BE PERFORMED WITH A NIGHT TIME CLOSURE PER THE SPECIAL PROVISIONS AND UTILIZING THE HIGHWAY STANDARDS FOR TRAFFIC CONTROL.



PAY ITEM DESCRIPTION	UNIT	QTY
FURNISHED EXCAVATION	CU YD	64
TEMPORARY CONCRETE BARRIER	FOOT	175
REMOVE TEMPORARY CONCRETE BARRIER	FOOT	150
CONCRETE BARRIER REMOVAL	FOOT	200
RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	175
BARRIER WALL REFLECTORS, TYPE C	EACH	34
CONCRETE BARRIER, DOUBLE FACE, 32 INCH	FOOT	250
CONCRETE BARRIER BASE	FOOT	250
STABILIZED CONSTRUCTION ENTRANCE	SO YD	88
HOT-MIX ASPHALT SHOULDER, 6"	SO YD	88
SUBBASE GRANULAR MATERIAL, TYPE C 4"	SO YD	88
TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	LSUM	0.4

**NOTES:**

- IF A LANE CLOSURE IS REQUIRED, CONSTRUCTION FOR TOWER 3LAB3 SHALL BE DONE WITH A NIGHT TIME CLOSURE PER THE SPECIAL PROVISIONS AND UTILIZING THE HIGHWAY STANDARDS FOR TRAFFIC CONTROL.
- THE EXISTING TEMPORARY CONCRETE BARRIER FOR TOWER 3LAB3 SHALL BE REMOVED AND NEW F SHAPE TEMPORARY CONCRETE BARRIER SHALL BE INSTALLED AT A 12:1 TAPER BEFORE CONSTRUCTION BEGINS. AFTER CONSTRUCTION IS COMPLETED THE NEW F SHAPE TEMPORARY CONCRETE BARRIER SHALL BE RELOCATED BACK TO THE ORIGINAL LOCATION BY LAPPING THE FIRST AND LAST BARRIER AND PIN TO THE PAVEMENT. FOLLOW TC-17 FOR SHOULDER CLOSURE TO COMPLETE THIS WORK.
- CONTRACTOR SHOULD TAKE PROPER MEASURE NOT TO DAMAGE THE IRRIGATION SYSTEM ON I-290 MEDIAN. THE VALVES AND CONTROLS ARE TYPICALLY PLACED BY THE MEDIAN NORTH BARRIER WALL AND FLEXIBLE DRIP PIPES ARE SCATTERED IN THROUGHOUT THE MEDIAN. NOTIFY CDOT BEFORE START OF WORK.



C-08 - 12:00CentralAve MO1.dgn



USER NAME = malanesj	DESIGNED - SJM	REVISED -
	DRAWN - SJM	REVISED -
PLOT SCALE = 100.0000' / 1"	CHECKED - WJB	REVISED -
PLOT DATE = 4/19/2018	DATE - 10-18-2017	REVISED -

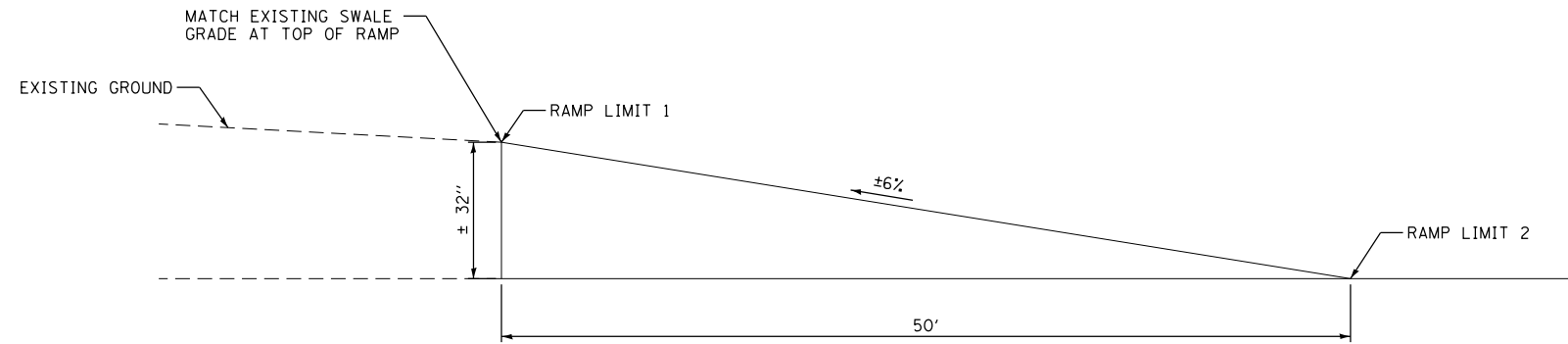
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC PLAN  
I-290 / CENTRAL AVE. - SHEET 2 OF 3  
SCALE: 1"=50' SHEET OF SHEETS STA. 874+00 TO STA. 905+15

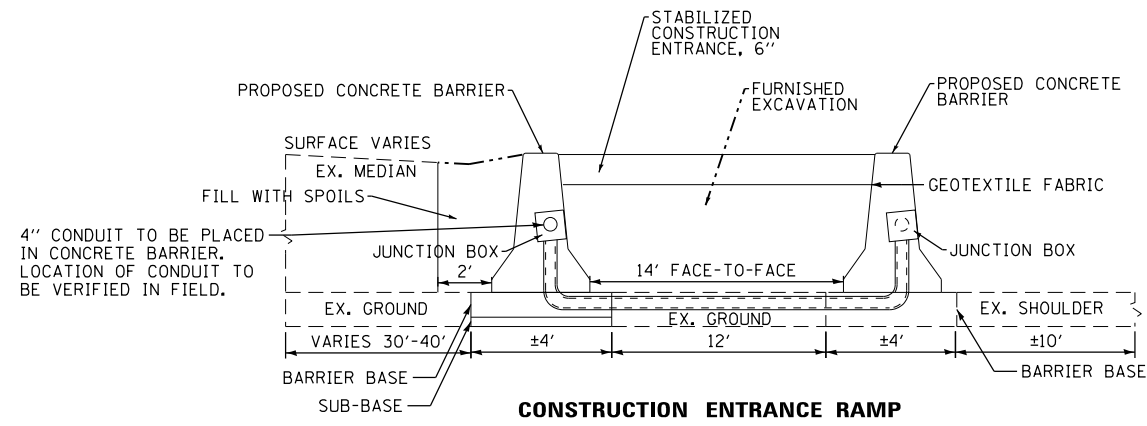
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2016-017L	COOK	88	16
CONTRACT NO. 62C35				
ILLINOIS FED. AID PROJECT				

C-08

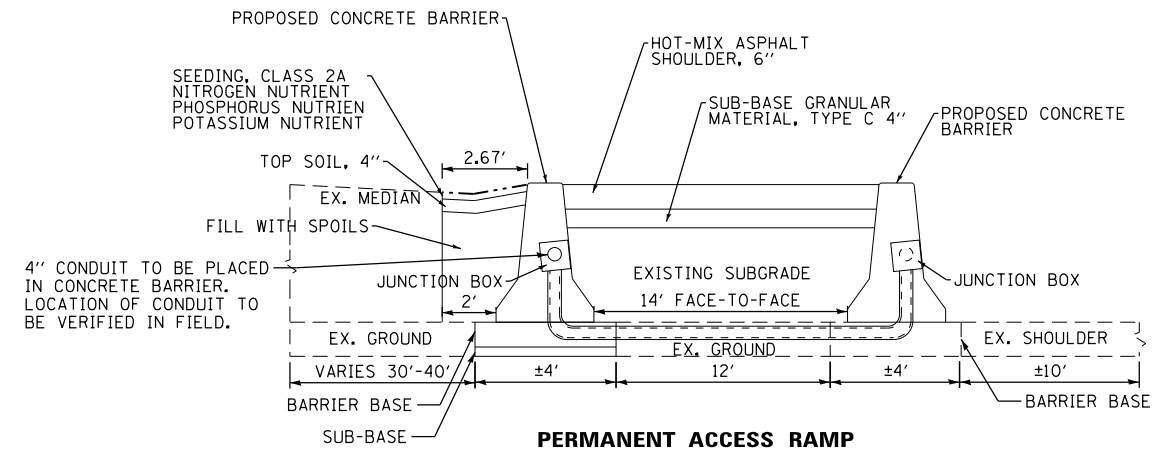




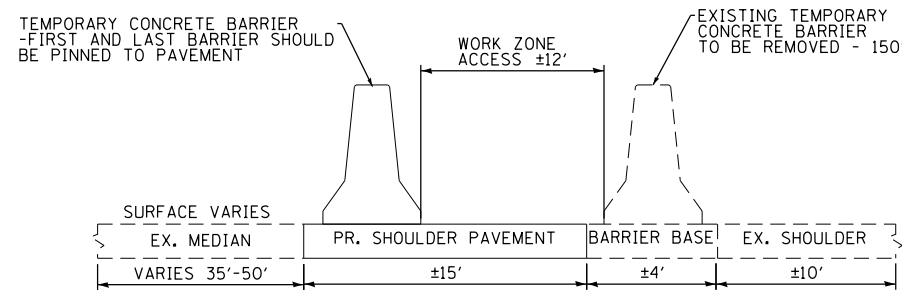
**CONSTRUCTION ENTRANCE /ACCESS RAMP ELEVATION VIEW**



**CONSTRUCTION ENTRANCE RAMP  
TYPICAL SECTION  
A-A**



**PERMANENT ACCESS RAMP  
TYPICAL SECTION  
A-A**



**MOT TYPICAL SECTION  
B-B**

C-09-12100CentralAve MOT.dgn



USER NAME = malanosj	DESIGNED - SJM	REVISED -
	DRAWN - SJM	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - WJB	REVISED -
PLOT DATE = 3/13/2018	DATE - 10-18-2017	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**RAMP ELEVATION AND TYPICAL SECTIONS  
I-290 / CENTRAL AVE. - SHEET 3 OF 3**

SCALE: SHEET OF SHEETS STA. 874+00 TO STA. 905+15

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2016-017L	COOK	88	17
CONTRACT NO. 62C35				
ILLINOIS FED. AID PROJECT				

**C-09**

**GENERAL NOTES:**

- ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST CODES, STANDARDS, AND THE IDOT STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED ON APRIL 2016, AND SUPPLEMENT SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS ADOPTED ON JAN 1, 2015.
- THE CONTRACTOR MUST VERIFY ALL OF THE INFORMATION SHOWN ON THE CONTRACT PLANS WHICH COULD AFFECT HIS WORK UNDER THIS CONTRACT FOR OPERATION OF THE EXISTING ROADWAY LIGHTING SYSTEM.
- NO MATERIAL OR EQUIPMENT SHALL BE DELIVERED TO THE JOB SITE WITHOUT PRIOR INSPECTION AND APPROVAL BY THE ENGINEER. ANY MATERIAL AND EQUIPMENT NOT APPROVED BY THE ENGINEER MUST BE REMOVED FROM JOB SITE AT THE CONTRACTOR'S EXPENSE.
- ALL UNDERGROUND UNIT DUCT SHALL BE 30 INCHES MINIMUM BELOW GRADE PER IDOT SECTION 810. UNIT DUCT MUST BE POSITIONED IN THE FIELD TO AVOID CONFLICT WITH UNDERDRAINS, AND UNDERGROUND UTILITIES.
- ALL SPLICING MUST BE IN TOWER/ POLE BASES OR EXISTING JUNCTION BOXES ABOVE GRADE WITH WATERPROOF SEALANT AND HEAT SHRINKABLE PLASTIC CAPS. UNLESS NOTED OTHERWISE.
- TEMPORARY SUPPORTS FOR EXISTING UTILITIES SHALL BE PROVIDED IF REQUIRED.
- NO LIGHTING CIRCUIT OR PORTION THEREOF SHALL BE REMOVED FROM NIGHT TIME OPERATION OF EXISTING LIGHTING WITHOUT THE APPROVAL OF THE ENGINEER. ALL EXISTING LIGHTING SHALL OPERATE FROM DUSK TO DAWN DAILY FOR DURATION OF THE PROJECT TO MAINTAIN ILLUMINATION OF TRAVELED ROADWAYS.
- EXISTING LIGHTING TOWER / TEMPORARY LIGHTING WILL REMAIN OPERATIONAL UNTIL PROPOSED LIGHTING TOWER OR LIGHT POLES STARTS FUNCTIONING.
- SWITCHOVER OF CABLE CONNECTIONS TO PROPOSED LIGHTING TOWER OR LIGHT POLES FROM EXISTING LIGHTING TOWER / TEMPORARY LIGHTING POLES SHALL TAKE PLACE DURING DAY TIME.
- PROPOSED LIGHTING TOWER IN CONFLICT WITH THE EXISTING DITCH LINES SHALL BE INSTALLED BEHIND THE DITCHES AS APPROVED BY THE ENGINEER. NO TOWER SHALL BE INSTALLED AT THE BOTTOM OF DRAINAGE DITCHES OR IN ESTABLISHED LANDSCAPING.
- ALL EXCAVATION REQUIRED TO FACILITATE THE INSTALLATION OF PROPOSED LIGHT TOWER FOUNDATIONS AT SLOPED AREAS SHALL BE CONSIDERED INCIDENTAL TO THE TOWER FOUNDATIONS. NO SEPARATE PAYMENT WILL BE MADE.
- COUNTERWEIGHTS ON UN-USED TENONS SHALL BE MOUNTED TO BALANCE THE LUMINAIRE AS ACCEPTABLE TO THE ENGINEER.
- TOWER UNIT IDENTIFICATION LABEL SHALL BE PROVIDED AS PER ARTICLE 1069.06 TO THE PROPOSED TOWER TO MATCH WITH EXISTING ONE.
- CONTRACTOR SHALL REVIEW THE SOIL BORING LOGS AND SOIL TEST REPORTS FOR EACH PROPOSED LIGHTING TOWER, BEFORE START OF FOUNDATION AUGURING. EACH HOLE FOR THE FOUNDATION SHALL BE INSPECTED BY THE ENGINEER PRIOR TO POURING CONCRETE FOUNDATION. THE SOIL BORING LOGS REPRESENT POINT INFORMATION. PRESENTATION OF THE INFORMATION IN NO WAY IMPLIES THAT SUB SURFACE CONDITIONS ARE THE SAME AT LOCATIONS OTHER THAN THE EXACT LOCATION OF BORING.
- THE CONTRACTOR IS ADVISED THAT IN THE EVENT OF SNOW, HE SHALL BE RESPONSIBLE FOR THE IMMEDIATE REMOVAL OF ANY MAINTENANCE OF TRAFFIC PROTECTIVE DEVICE REQUIRED FOR THE TRAFFIC OPERATIONS THAT WOULD INTERFERE WITH SNOW REMOVAL OPERATION PERFORMED BY THE STATE IN ACCORDANCE WITH THE IDOT STANDARD SPECIFICATIONS.
- PROPOSED TOWER FOUNDATIONS ARE SHOWN AS APPROXIMATE LOCATIONS. IT CAN BE ADJUSTED IN THE FIELD TO AVOID EXISTING UNDERGROUND CABLE & UTILITY CONFLICTS, PER APPROVAL BY ENGINEER.
- THE PROPOSED TOWER FOUNDATION SHALL NOT BE PLACED CLOSER THAN 10 FT FROM EXISTING TOWER FOUNDATION. THE MINIMUM 10 FT SEPARATION IS MEASURED FROM EDGE OF PROPOSED FOUNDATION TO EDGE OF EXISTING FOUNDATION.
- REMOVAL AND DISPOSAL OF SURPLUS, UNSTABLE, UNSUITABLE, AND ORGANIC MATERIALS SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 202 OF THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL TAKE CARE IN GRADING AND EXCAVATING NEAR TREES WHICH ARE NOT MARKED FOR REMOVAL SO AS NOT TO CAUSE INJURY TO THE ROOT SYSTEM OR TRUNKS. MAJOR ROOTS OF A TREE THAT IS TO REMAIN IN PLACE EXTENDING INTO THE EXCAVATION AREA SHALL BE SEVERED AT A POINT IMMEDIATELY OUTSIDE OF THE EXCAVATION AREA IN A MANNER THAT WILL CAUSE THE LEAST AMOUNT OF SYSTEMIC DAMAGE TO THE REMAINING TREE. ANY DAMAGE DONE TO EXISTING TREES BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE.
















**CONTACT NOTES:**

- CALL JULIE OR DIGGER FOR CABLE LOCATES, CALL IDOT EMC AT (708) 524-2145 FOR IDOT MAINTAINED CABLE LOCATES. THE PROPOSED TOWER FOUNDATIONS & PROPOSED UNIT DUCTS SHOULD ONLY BE INSTALLED AFTER THE LOCATES HAVE BEEN COMPLETED.

**REMOVAL NOTES:**

- LOCATIONS OF EXISTING LIGHTING TOWERS SHOWN ON PLAN DRAWINGS ARE APPROXIMATE AND MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR.
- PRIOR TO SUBMITTING A BID, THE CONTRACTOR SHALL REVIEW THE CONTRACT DRAWINGS AND ASCERTAIN EXISTING SITE CONDITIONS TO VERIFY THE EXTENT OF DEMOLITION. FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR PERFORMING ALL REMOVAL REQUIRED IN THIS CONTRACT.
- COMMENCEMENT OF WORK SHALL BE CONSTRUED AS EVIDENCE THAT A CAREFUL EXAMINATION OF THE PORTIONS OF EXISTING FOUNDATIONS AND UNIT DUCT FOR THIS WORK AND ACCESS TO WORK SPACES, HAS BEEN MADE AND THAT THE CONTRACTOR IS FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT THE EXECUTION OF THE WORK. LATER CLAIMS SHALL NOT BE MADE FOR ADDITIONAL LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN DURING SUCH AN EXAMINATION.
- ALL SALVAGE EXISTING EQUIPMENT INCLUDING, TEMPORARY WOOD POLES, LUMINAIRES, MAST ARMS SHALL BE RETURNED TO STATE STOCK. THE CONTRACTOR SHALL CALL EMC AT (708) 524-2145 FOR MORE DETAILS AND DELIVERY PLACE.
- REMOVE EXISTING TOWER FOUNDATION, GROUND RODS, UNIT DUCT UP TO 10FT FROM THE CENTER OF FOUNDATION. THE VOID CAUSED BY THE REMOVAL OF THE TOWER FOUNDATION SHALL BE BACKFILLED WITH SUITABLE EXCAVATED MATERIAL APPROVED BY THE ENGINEER.
- LOCATIONS SELECTED FOR COLLECTION OF DEBRIS AND/OR STORAGE OF EQUIPMENT SHALL BE AS APPROVED BY THE ENGINEER.
- ALL EXISTING TOWERS TO BE REMOVED SHALL BE SCRAPPED AND DISPOSED OF IN A LEGAL MANNER.
- REMOVAL OF TEMPORARY LIGHTING UNIT SHALL INCLUDE POLE, AERIAL CABLE, LUMINAIRE, MAST ARM AND ALL ASSOCIATED APPARATUS AND CONNECTIONS. ALL TEMPORARY LIGHT LUMINAIRES WILL BE INSPECTED BY THE ENGINEER BEFORE BEING BOXED IN NEW CONTAINERS AND DELIVERED TO STORAGE FACILITY OF IDOT DISTRICT 1.
- TOWER CONCRETE FOUNDATION SHALL BE REMOVED TO AT LEAST 2 FT BELOW GRADE. REMOVE EXISTING WORK PAD WHERE APPLICABLE. THE COST OF THIS SHALL BE INCLUDED IN FOUNDATION REMOVAL UNLESS NOTED OTHERWISE.
- VERIFY AND LOCATE UNDERGROUND CIRCUIT (UNIT DUCTS) ROUTING OF TOWERS UNDER REPLACEMENT AS PER SECTION 803. MARK THE ROUTING SO THAT DURING DIGGING OF TRENCH FOR PROPOSED UNIT DUCT THE EXISTING UNIT DUCT IS PROTECTED TO MAINTAIN THE LIGHTING SYSTEM IN OPERATION. IF THE PROPOSED TOWER FOUNDATION COMES ON EXISTING UNIT DUCT, RE-ROUTE THE UNIT DUCT TEMPORARY UNTIL PROPOSED TOWER STARTS FUNCTIONING.

**SYMBOL LEGEND:**

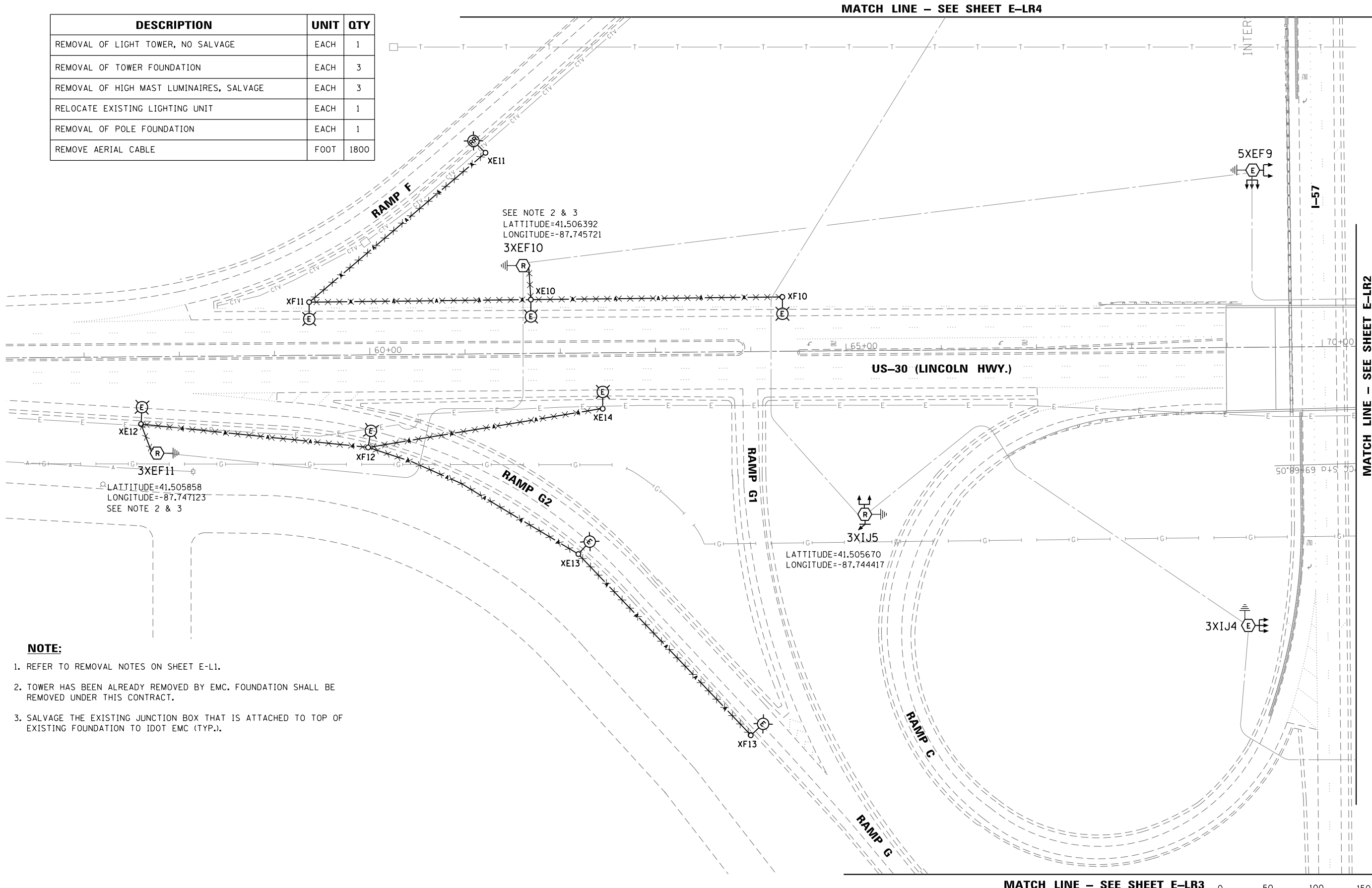
-  REMOVE OF EXISTING LIGHTING TOWER AND FOUNDATION, EXISTING TOWER TO BE SCRAPPED. HIGH MAST LUMINAIRES TO BE SALVAGED.
-  EXISTING LIGHTING TOWER TO REMAIN, EXISTING LUMINAIRES AS PER PLAN
-  PROPOSED LIGHTING TOWER ON NEW FOUNDATION, PROPOSED LUMINAIRES, NUMBER OF LUMINAIRES AS PER PLAN HANDHOLE ORIENTATION
-  REMOVE TOWER FOUNDATION ONLY
-  REMOVE TEMPORARY LIGHTING UNIT COMPLETE WITH ALL ACCESSORIES, SALVAGE TO IDOT
-  EXISTING LIGHTING UNIT TO REMAIN
-  REMOVE EXISTING AERIAL CABLE AND MESSANGER WIRE
-  EXISTING UNIT DUCT, SIZE AS PER PLANS
-  UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.
-  PROPOSED UNIT DUCT, SIZE AS PER PLANS
-  EXISTING LIGHTING CONTROLLER
-  GROUND ROD, 5/8" DIA x 10' LONG
-  PROPOSED LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 15 FT. DAVIT ARM METAL FOUNDATION, 10" X 8' LONG BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT LUMINAIRE SAFETY CABLE ASSEMBLY
-  REMOVE AND RELOCATE EXISTING LIGHTING UNIT
-  RELOCATE EXISTING LIGHTING UNIT - NEW LOCATION

**ABBREVIATIONS:**

- E EXISTING TO REMAIN
- E.O.P. EDGE OF PAVEMENT
- EMC ELECTRICAL MAINTENANCE CONTRACT
- FT FEET OR FOOT
- GND GROUND
- JB JUNCTION BOX
- MA MAST ARM
- NO. NUMBER
- N.T.S. NOT TO SCALE
- P PROPOSED
- PVC POLYVINYL CHLORIDE
- RGS RIGID GALVANISED STEEL
- R REMOVE
- STA. STATION
- U.N.O. UNLESS NOTED OTHERWISE
- HPS HIGH PRESSURE SODIUM

 DELTA ENGINEERING GROUP, LLC	USER NAME : *USER*	DESIGNED - HM	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>SYMBOLS LEGEND, GENERAL NOTES</b> <b>AND REMOVAL NOTES</b>			F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE : *SCALE*	CHECKED - HS	REVISED -		SCALE: NONE	SHEET 1 OF 1 SHEETS	STA.	TO STA.	2016-017L	VARIOUS	88	18
PLOT DATE : *DATE*	DATE - 03-21-2017	REVISED -				ILLINOIS FED. AID PROJECT CONTRACT NO. 62C35						

DESCRIPTION	UNIT	QTY
REMOVAL OF LIGHT TOWER, NO SALVAGE	EACH	1
REMOVAL OF TOWER FOUNDATION	EACH	3
REMOVAL OF HIGH MAST LUMINAIRES, SALVAGE	EACH	3
RELOCATE EXISTING LIGHTING UNIT	EACH	1
REMOVAL OF POLE FOUNDATION	EACH	1
REMOVE AERIAL CABLE	FOOT	1800



**NOTE:**

- REFER TO REMOVAL NOTES ON SHEET E-L1.
- TOWER HAS BEEN ALREADY REMOVED BY EMC. FOUNDATION SHALL BE REMOVED UNDER THIS CONTRACT.
- SALVAGE THE EXISTING JUNCTION BOX THAT IS ATTACHED TO TOP OF EXISTING FOUNDATION TO IDOT EMC (TYP.).

MATCH LINE - SEE SHEET E-LR4

MATCH LINE - SEE SHEET E-LR2

MATCH LINE - SEE SHEET E-LR3



E-LR1



USER NAME = *USER*	DESIGNED - HM	REVISED -
	DRAWN - GJ	REVISED -
PLOT SCALE = *SCALE*	CHECKED - HS	REVISED -
PLOT DATE = *DATE*	DATE - 03-21-2017	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

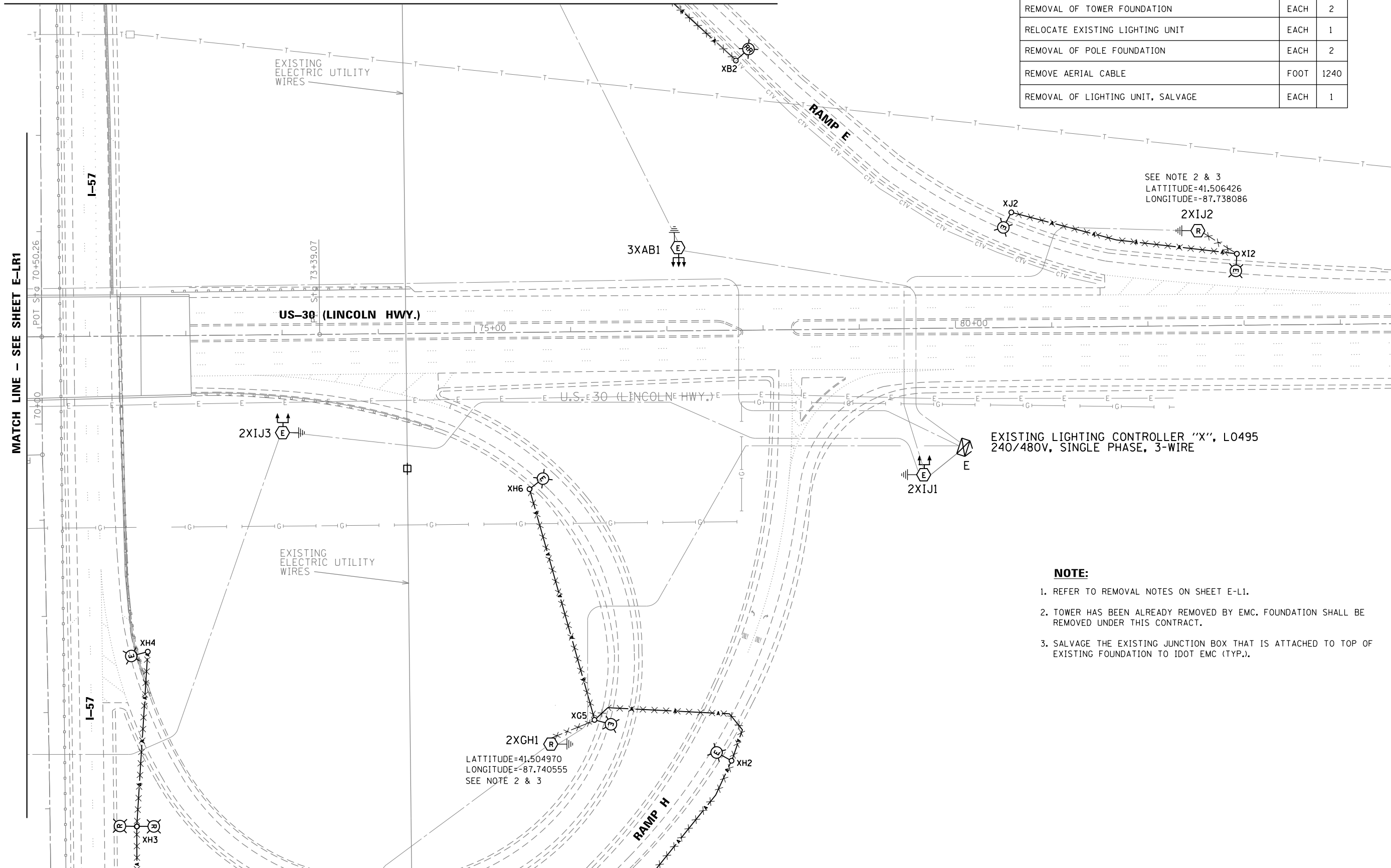
LIGHTING REMOVAL PLAN  
I-57 /US-30 - SHEET 1 OF 4

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2016-017L	COOK	88	19
CONTRACT NO. 62C35				
ILLINOIS FED. AID PROJECT				

MATCH LINE - SEE SHEET E-LR4

DESCRIPTION	UNIT	QTY
REMOVAL OF TOWER FOUNDATION	EACH	2
RELOCATE EXISTING LIGHTING UNIT	EACH	1
REMOVAL OF POLE FOUNDATION	EACH	2
REMOVE AERIAL CABLE	FOOT	1240
REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	1



SEE NOTE 2 & 3  
 LATITUDE=41.506426  
 LONGITUDE=-87.738086

EXISTING LIGHTING CONTROLLER "X", L0495  
 240/480V, SINGLE PHASE, 3-WIRE

LATITUDE=41.504970  
 LONGITUDE=-87.740555  
 SEE NOTE 2 & 3

**NOTE:**

- REFER TO REMOVAL NOTES ON SHEET E-L1.
- TOWER HAS BEEN ALREADY REMOVED BY EMC. FOUNDATION SHALL BE REMOVED UNDER THIS CONTRACT.
- SALVAGE THE EXISTING JUNCTION BOX THAT IS ATTACHED TO TOP OF EXISTING FOUNDATION TO IDOT EMC (TYP.).

MATCH LINE - SEE SHEET E-LR3



E-LR2



USER NAME = *USER*	DESIGNED - HM	REVISED -
DRAWN - GJ	REVISED -	
PLOT SCALE = *SCALE*	CHECKED - HS	REVISED -
PLOT DATE = *DATE*	DATE - 03-21-2017	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

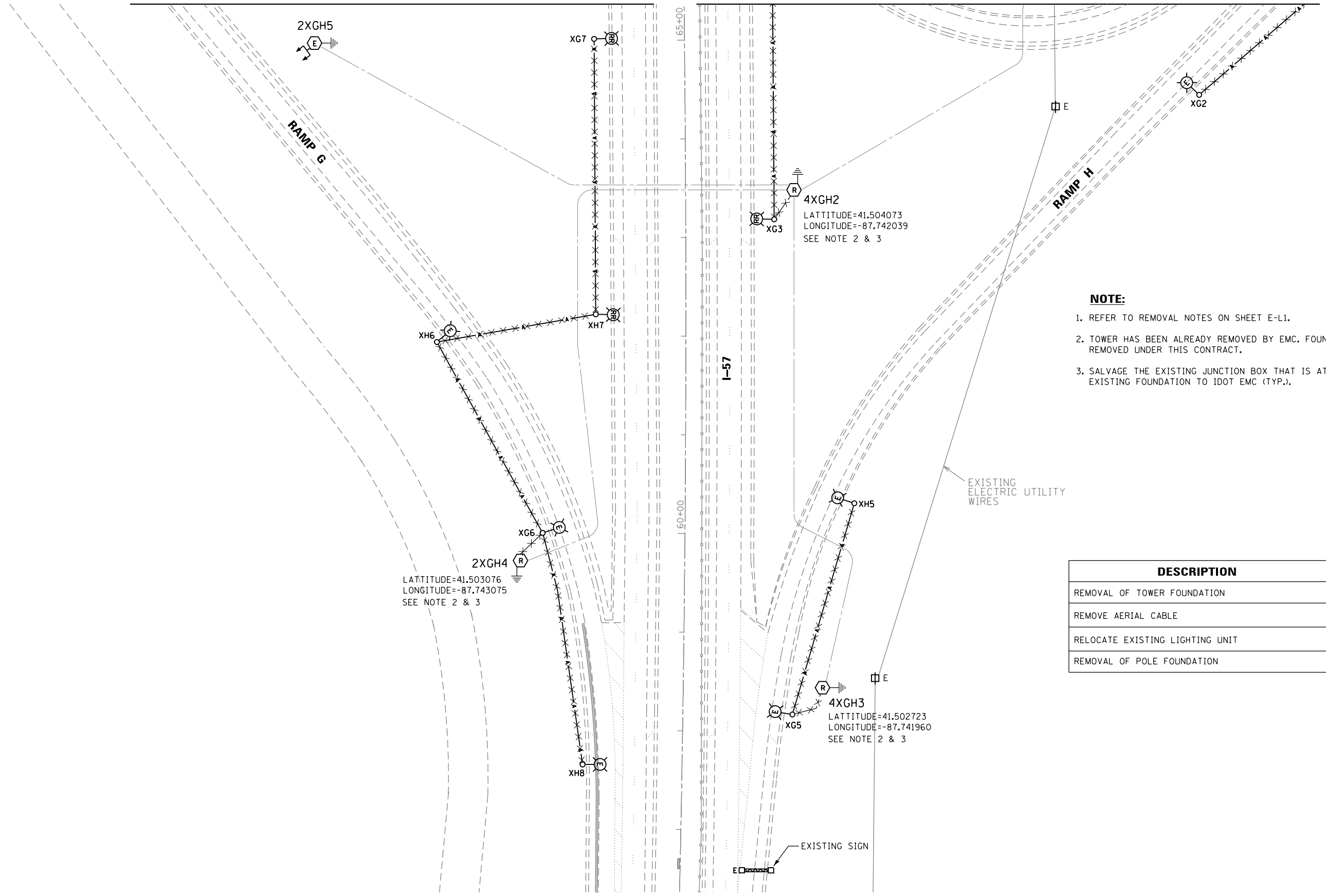
LIGHTING REMOVAL PLAN  
 I-57 /US-30 - SHEET 2 OF 4

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2016-017L	COOK	88	20
CONTRACT NO. 62C35				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. TO STA.

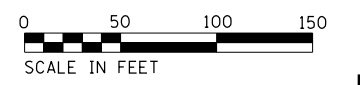
MATCH LINE – SEE SHEET E-LR1

MATCH LINE – SEE SHEET E-LR2



- NOTE:**
- REFER TO REMOVAL NOTES ON SHEET E-L1.
  - TOWER HAS BEEN ALREADY REMOVED BY EMC. FOUNDATION SHALL BE REMOVED UNDER THIS CONTRACT.
  - SALVAGE THE EXISTING JUNCTION BOX THAT IS ATTACHED TO TOP OF EXISTING FOUNDATION TO IDOT EMC (TYP.).

DESCRIPTION	UNIT	QTY
REMOVAL OF TOWER FOUNDATION	EACH	3
REMOVE AERIAL CABLE	FOOT	1355
RELOCATE EXISTING LIGHTING UNIT	EACH	3
REMOVAL OF POLE FOUNDATION	EACH	3



E-LR3



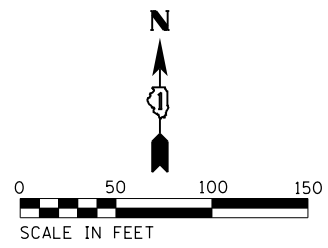
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	DRAWN - GJ	REVISED -
PLOT SCALE = \$SCALE*	CHECKED - HS	REVISED -
PLOT DATE = \$DATE*	DATE - 03-21-2017	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

LIGHTING REMOVAL PLAN  
I-57 /US-30 – SHEET 3 OF 4

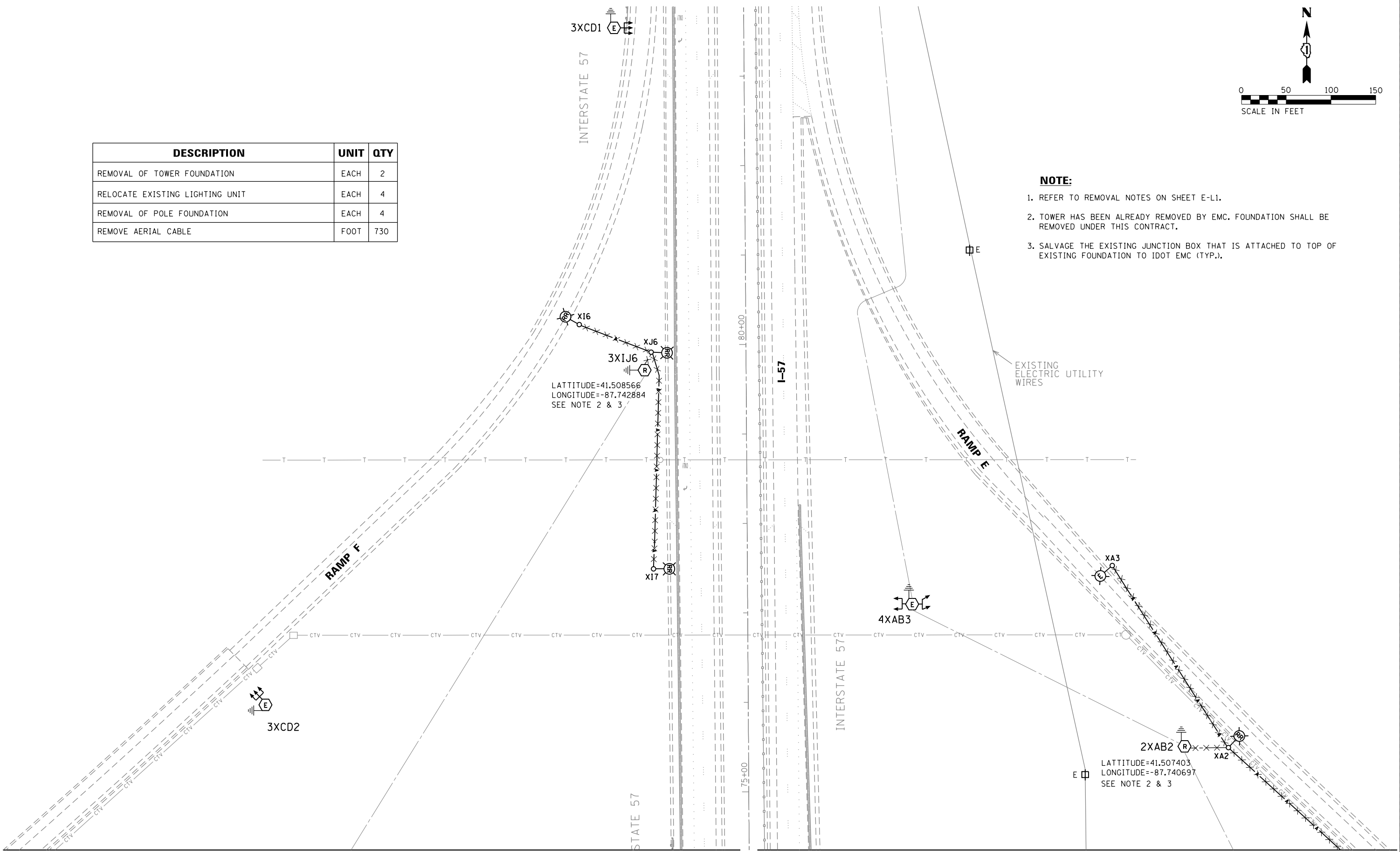
SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2016-017L	COOK	88	21
CONTRACT NO. 62C35				
ILLINOIS FED. AID PROJECT				



DESCRIPTION	UNIT	QTY
REMOVAL OF TOWER FOUNDATION	EACH	2
RELOCATE EXISTING LIGHTING UNIT	EACH	4
REMOVAL OF POLE FOUNDATION	EACH	4
REMOVE AERIAL CABLE	FOOT	730

- NOTE:**
- REFER TO REMOVAL NOTES ON SHEET E-L1.
  - TOWER HAS BEEN ALREADY REMOVED BY EMC. FOUNDATION SHALL BE REMOVED UNDER THIS CONTRACT.
  - SALVAGE THE EXISTING JUNCTION BOX THAT IS ATTACHED TO TOP OF EXISTING FOUNDATION TO IDOT EMC (TYP.).



LATTITUDE=41.508566  
 LONGITUDE=-87.742884  
 SEE NOTE 2 & 3

LATTITUDE=41.507403  
 LONGITUDE=-87.740697  
 SEE NOTE 2 & 3

MATCH LINE - SEE SHEET E-LR1

MATCH LINE - SEE SHEET E-LR2

E-LR4



USER NAME = *USER*	DESIGNED - HM	REVISED -
	DRAWN - GJ	REVISED -
PLOT SCALE = *SCALE*	CHECKED - HS	REVISED -
PLOT DATE = *DATE*	DATE - 03-21-2017	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**LIGHTING REMOVAL PLAN  
 I-57 /US-30 - SHEET 4 OF 4**

SCALE: SHEET OF SHEETS STA. TO STA.

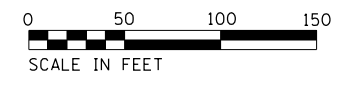
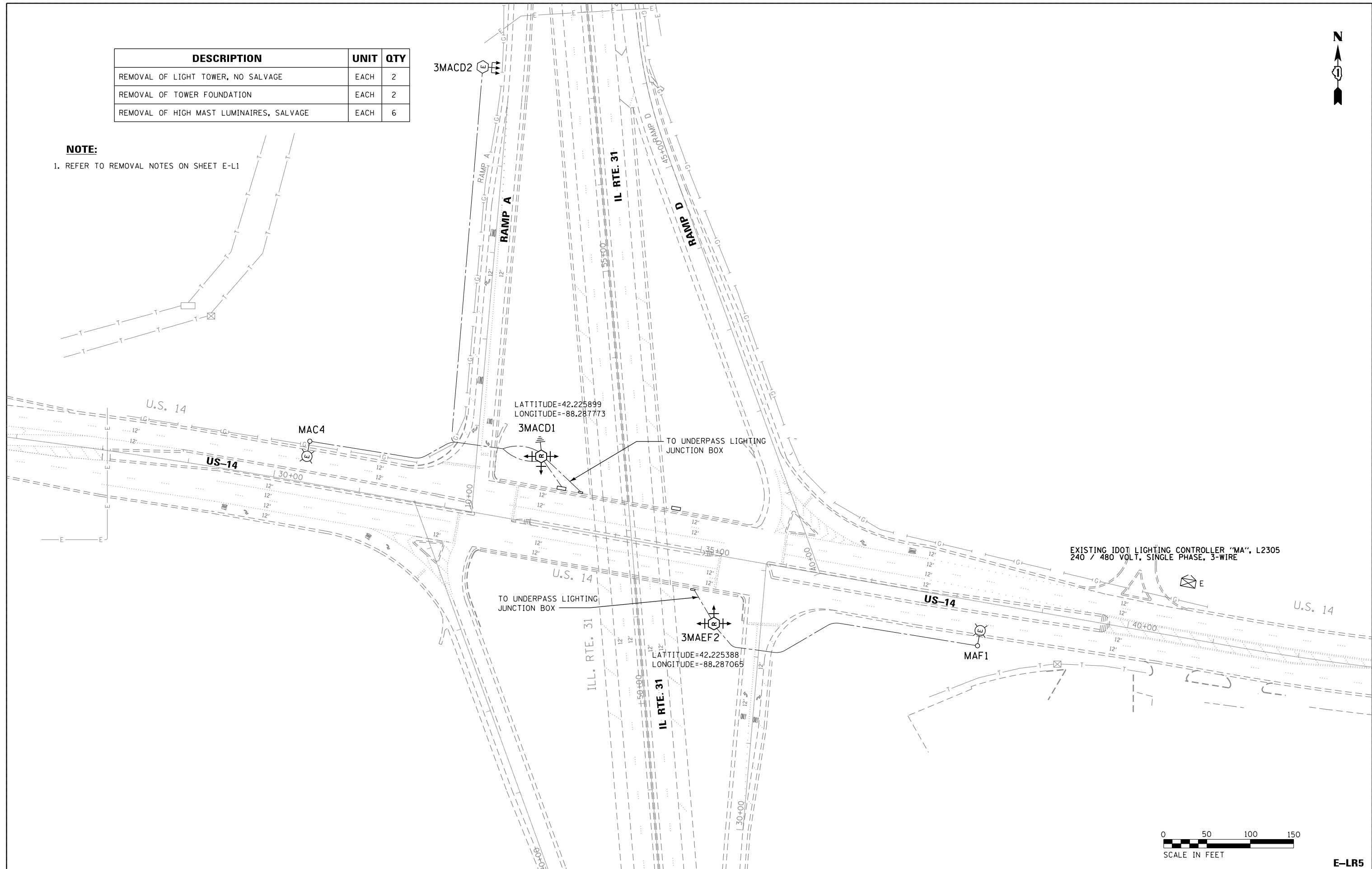
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2016-017L	COOK	88	22
CONTRACT NO. 62C35				
ILLINOIS FED. AID PROJECT				



DESCRIPTION	UNIT	QTY
REMOVAL OF LIGHT TOWER, NO SALVAGE	EACH	2
REMOVAL OF TOWER FOUNDATION	EACH	2
REMOVAL OF HIGH MAST LUMINAIRES, SALVAGE	EACH	6

**NOTE:**

1. REFER TO REMOVAL NOTES ON SHEET E-L1



E-LR5



USER NAME = \$USER*	DESIGNED - HM	REVISED -
DRAWN - GJ	REVISIONS -	
PLOT SCALE = \$SCALE*	CHECKED - HS	REVISED -
PLOT DATE = \$DATE*	DATE - 03-21-2017	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**LIGHTING REMOVAL PLAN  
US-14 / IL 31 - SHEET 1 OF 1**

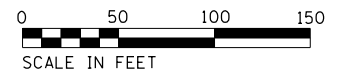
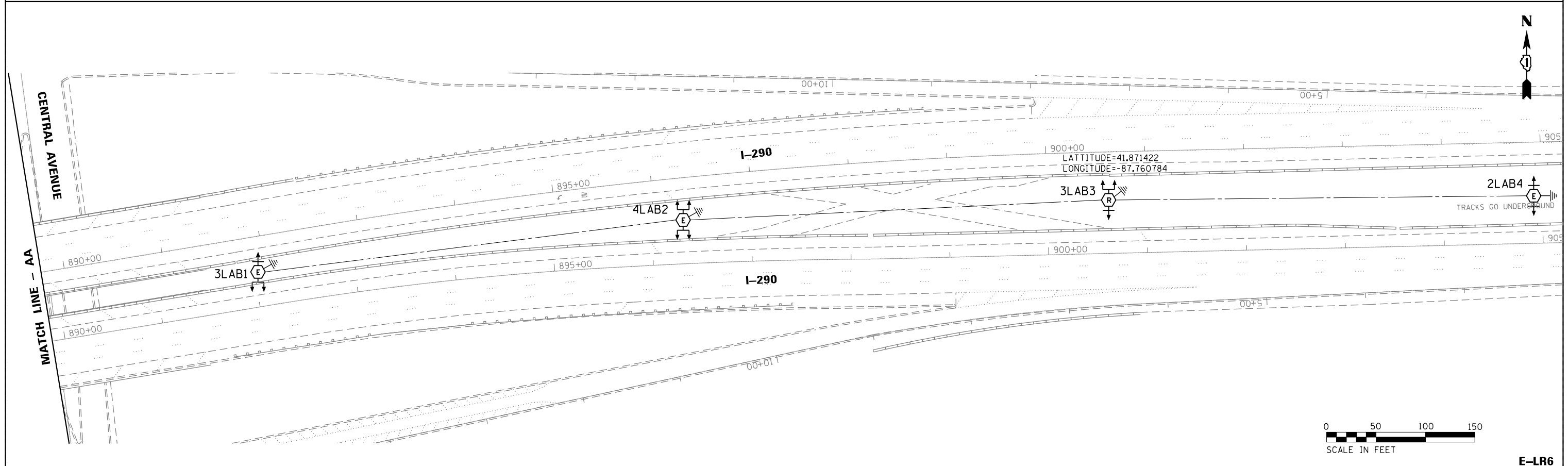
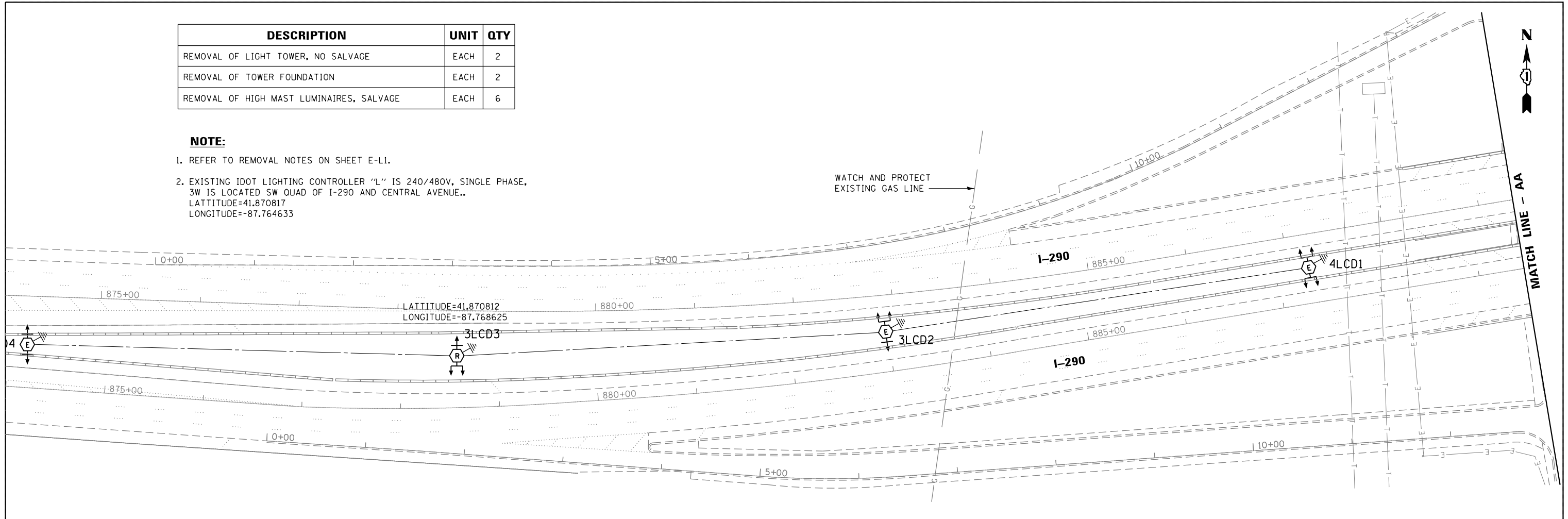
SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2016-017L	Mc Henry	88	23
CONTRACT NO. 62C35			ILLINOIS FED. AID PROJECT	

DESCRIPTION	UNIT	QTY
REMOVAL OF LIGHT TOWER, NO SALVAGE	EACH	2
REMOVAL OF TOWER FOUNDATION	EACH	2
REMOVAL OF HIGH MAST LUMINAIRES, SALVAGE	EACH	6

**NOTE:**

- REFER TO REMOVAL NOTES ON SHEET E-L1.
- EXISTING IDOT LIGHTING CONTROLLER "L" IS 240/480V, SINGLE PHASE. 3W IS LOCATED SW QUAD OF I-290 AND CENTRAL AVENUE..  
LATTITUDE=41.870817  
LONGITUDE=-87.764633



USER NAME = *USER*	DESIGNED - HM	REVISED -
PLOT SCALE = *SCALE*	DRAWN - GJ	REVISED -
PLOT DATE = *DATE*	CHECKED - HS	REVISED -
	DATE - 03-21-2017	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**LIGHTING REMOVAL PLAN**  
**I-290 / CENTRAL AVE. - SHEET 1 OF 1**

SCALE: 1"=50' SHEET 12 OF 14 SHEETS STA. TO STA.

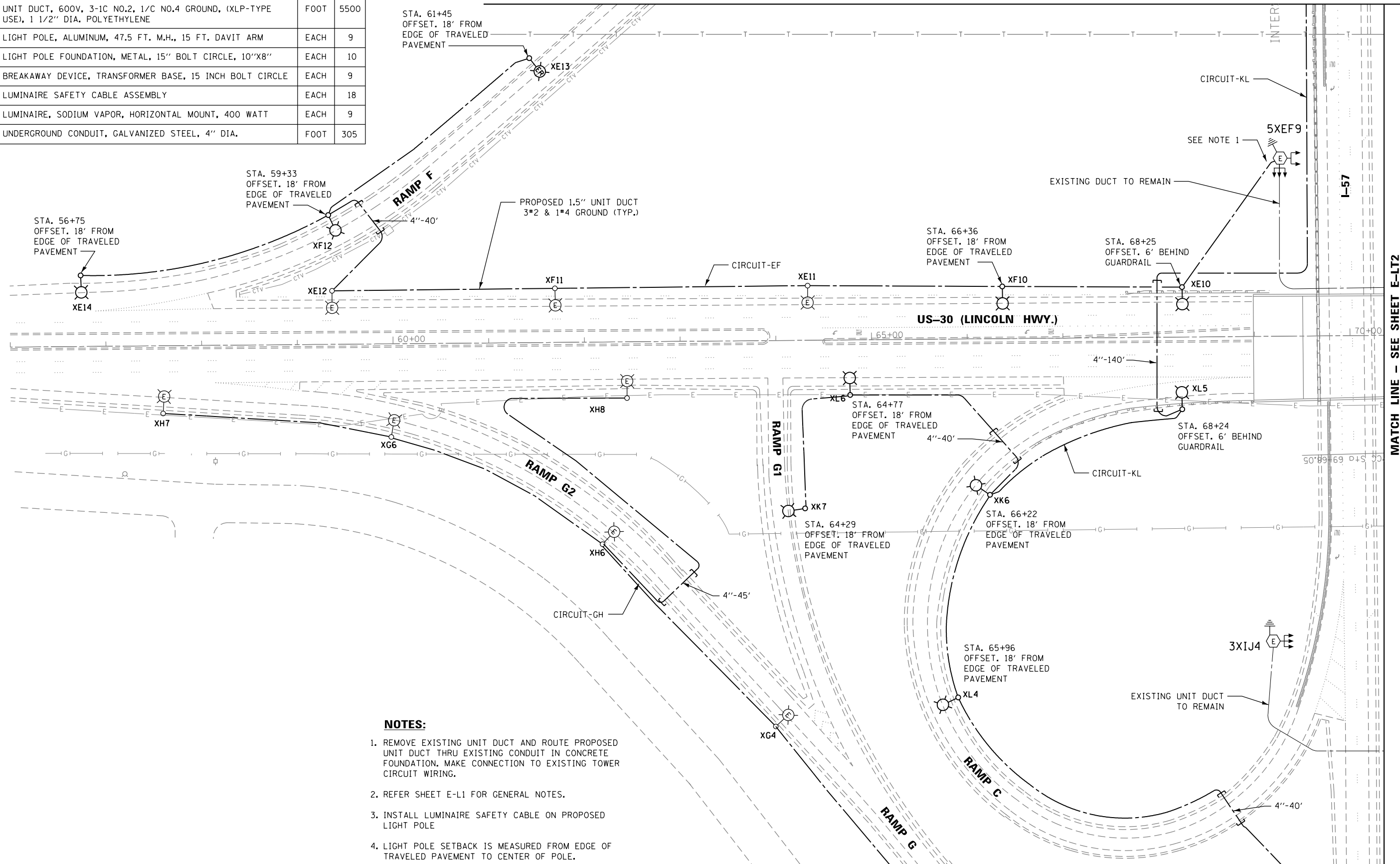
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2016-017L	COOK	88	24
CONTRACT NO. 62C35				
ILLINOIS FED. AID PROJECT				

E-LR6



DESCRIPTION	UNIT	QTY
UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE	FOOT	5500
LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 15 FT. DAVIT ARM	EACH	9
LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 10"X8"	EACH	10
BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	9
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	18
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	9
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	305

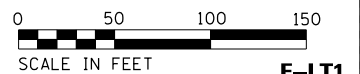
MATCH LINE - SEE SHEET E-LT4



- NOTES:**
1. REMOVE EXISTING UNIT DUCT AND ROUTE PROPOSED UNIT DUCT THRU EXISTING CONDUIT IN CONCRETE FOUNDATION. MAKE CONNECTION TO EXISTING TOWER CIRCUIT WIRING.
  2. REFER SHEET E-L1 FOR GENERAL NOTES.
  3. INSTALL LUMINAIRE SAFETY CABLE ON PROPOSED LIGHT POLE
  4. LIGHT POLE SETBACK IS MEASURED FROM EDGE OF TRAVELED PAVEMENT TO CENTER OF POLE.

MATCH LINE - SEE SHEET E-LT2

MATCH LINE - SEE SHEET E-LT3



E-LT1



USER NAME = \$USER*	DESIGNED - HM	REVISED -
DRAWN - GJ	REVISIED -	
PLOT SCALE = \$SCALE*	CHECKED - HS	REVISIED -
PLOT DATE = \$DATE*	DATE - 03-21-2017	REVISIED -

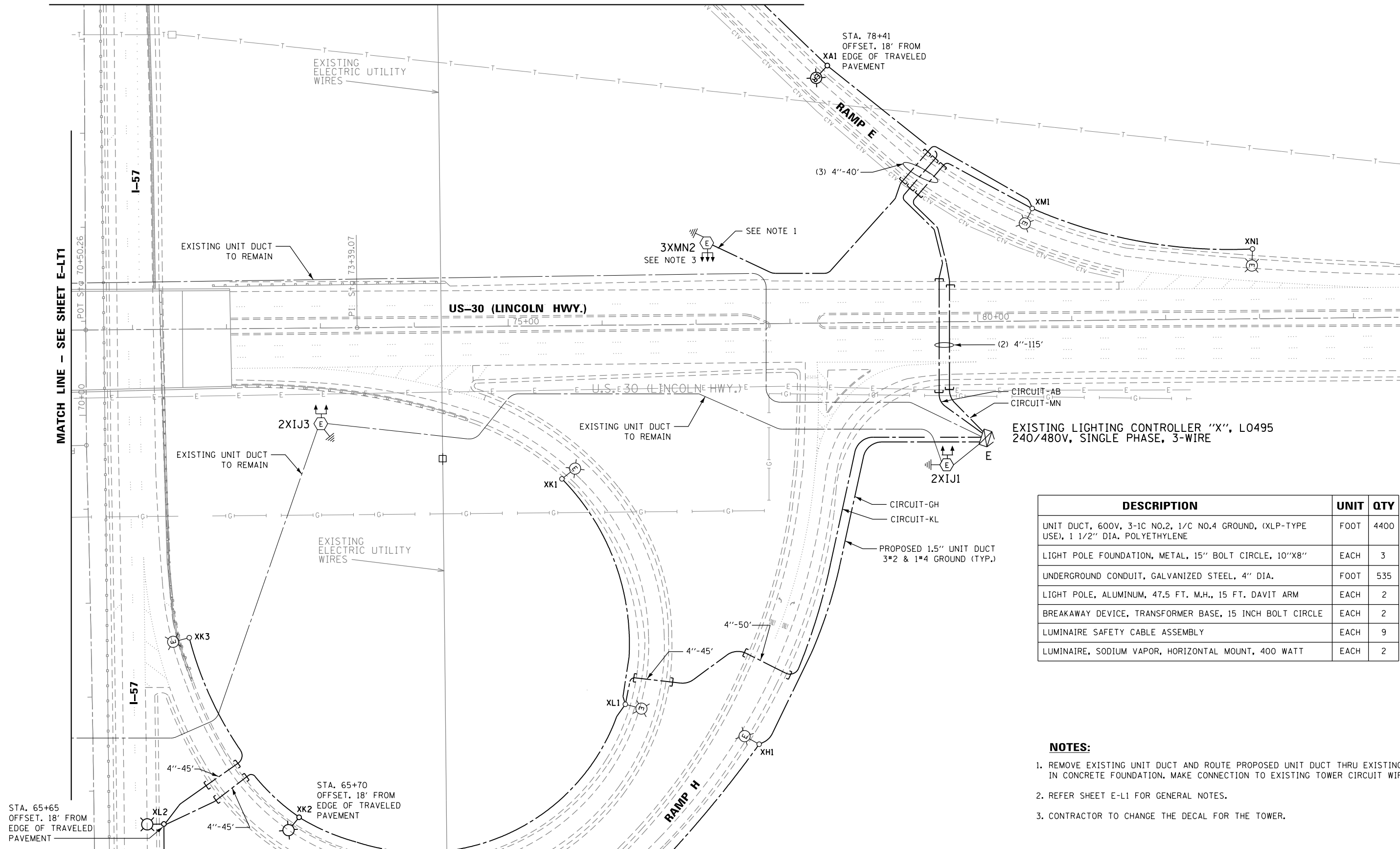
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PROPOSED LIGHTING PLAN  
I-57 /US-30 - SHEET 1 OF 4

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2016-017L	COOK	88	25
CONTRACT NO. 62C35				
ILLINOIS FED. AID PROJECT				

MATCH LINE - SEE SHEET E-LT4



EXISTING LIGHTING CONTROLLER "X", L0495  
240/480V, SINGLE PHASE, 3-WIRE

DESCRIPTION	UNIT	QTY
UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE	FOOT	4400
LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 10"x8"	EACH	3
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	535
LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 15 FT. DAVIT ARM	EACH	2
BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	2
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	9
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	2

**NOTES:**

1. REMOVE EXISTING UNIT DUCT AND ROUTE PROPOSED UNIT DUCT THRU EXISTING CONDUIT IN CONCRETE FOUNDATION. MAKE CONNECTION TO EXISTING TOWER CIRCUIT WIRING.
2. REFER SHEET E-L1 FOR GENERAL NOTES.
3. CONTRACTOR TO CHANGE THE DECAL FOR THE TOWER.



E-LT2



USER NAME = *USER*	DESIGNED - HM	REVISED -
PLOT SCALE = *SCALE*	DRAWN - GJ	REVISED -
PLOT DATE = *DATE*	CHECKED - HS	REVISED -
	DATE - 03-21-2017	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

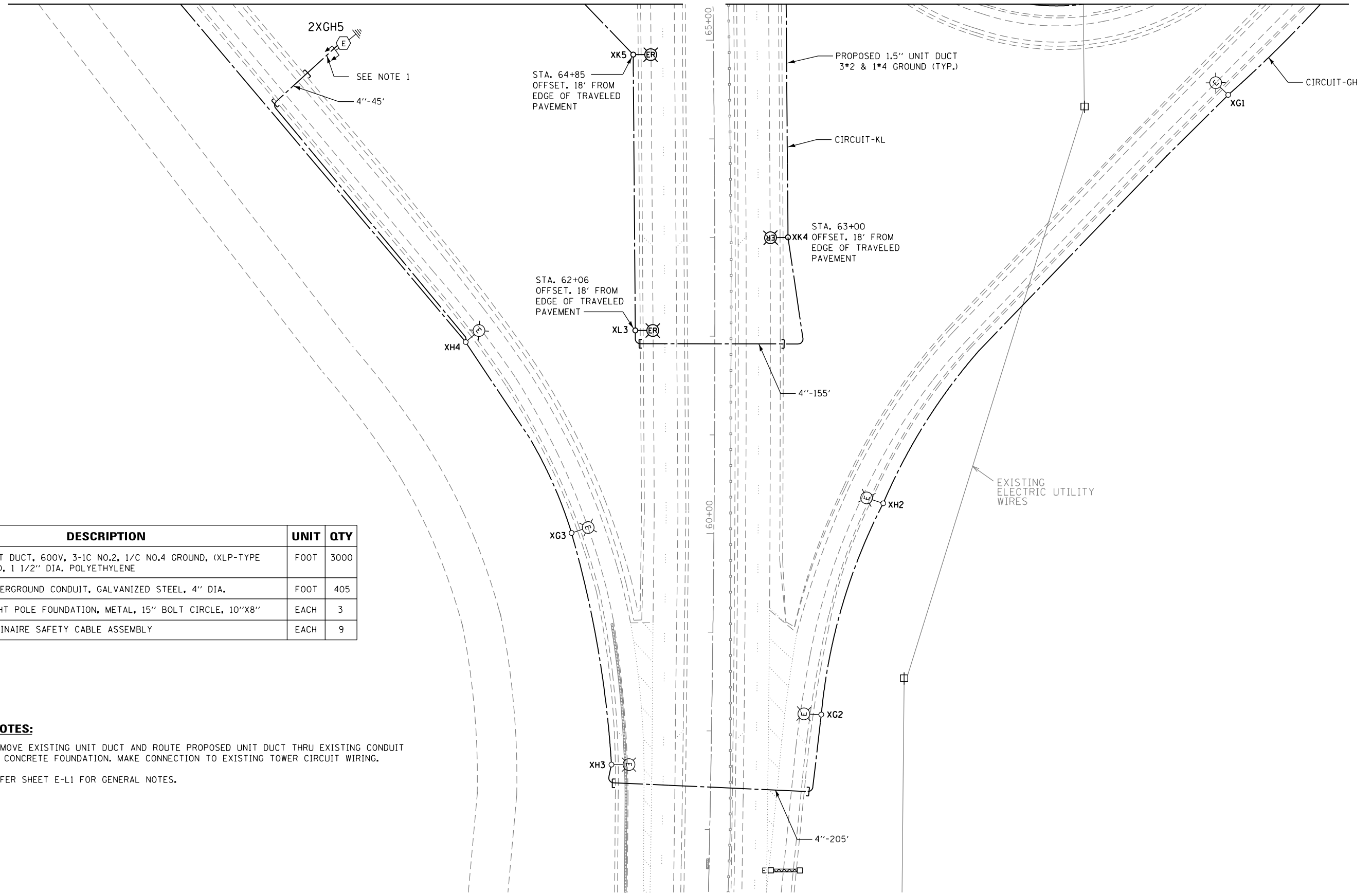
PROPOSED LIGHTING PLAN  
I-57 / US-30 - SHEET 2 OF 4

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2016-017L	COOK	88	26
CONTRACT NO. 62C35				
ILLINOIS FED. AID PROJECT				

MATCH LINE - SEE SHEET E-LT1

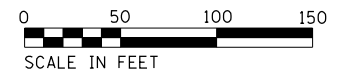
MATCH LINE - SEE SHEET E-LT2



DESCRIPTION	UNIT	QTY
UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE	FOOT	3000
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	405
LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 10"X8"	EACH	3
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	9

**NOTES:**

1. REMOVE EXISTING UNIT DUCT AND ROUTE PROPOSED UNIT DUCT THRU EXISTING CONDUIT IN CONCRETE FOUNDATION. MAKE CONNECTION TO EXISTING TOWER CIRCUIT WIRING.
2. REFER SHEET E-L1 FOR GENERAL NOTES.



E-LT3



USER NAME = *USER*	DESIGNED - HM	REVISED -
	DRAWN - GJ	REVISED -
PLOT SCALE = *SCALE*	CHECKED - HS	REVISED -
PLOT DATE = *DATE*	DATE - 03-21-2017	REVISED -

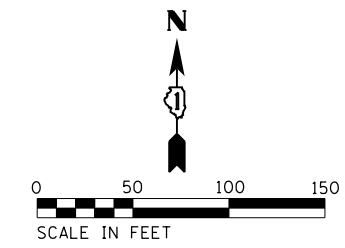
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PROPOSED LIGHTING PLAN  
I-57 /US-30 - SHEET 3 OF 4

SCALE: SHEET OF SHEETS STA. TO STA.

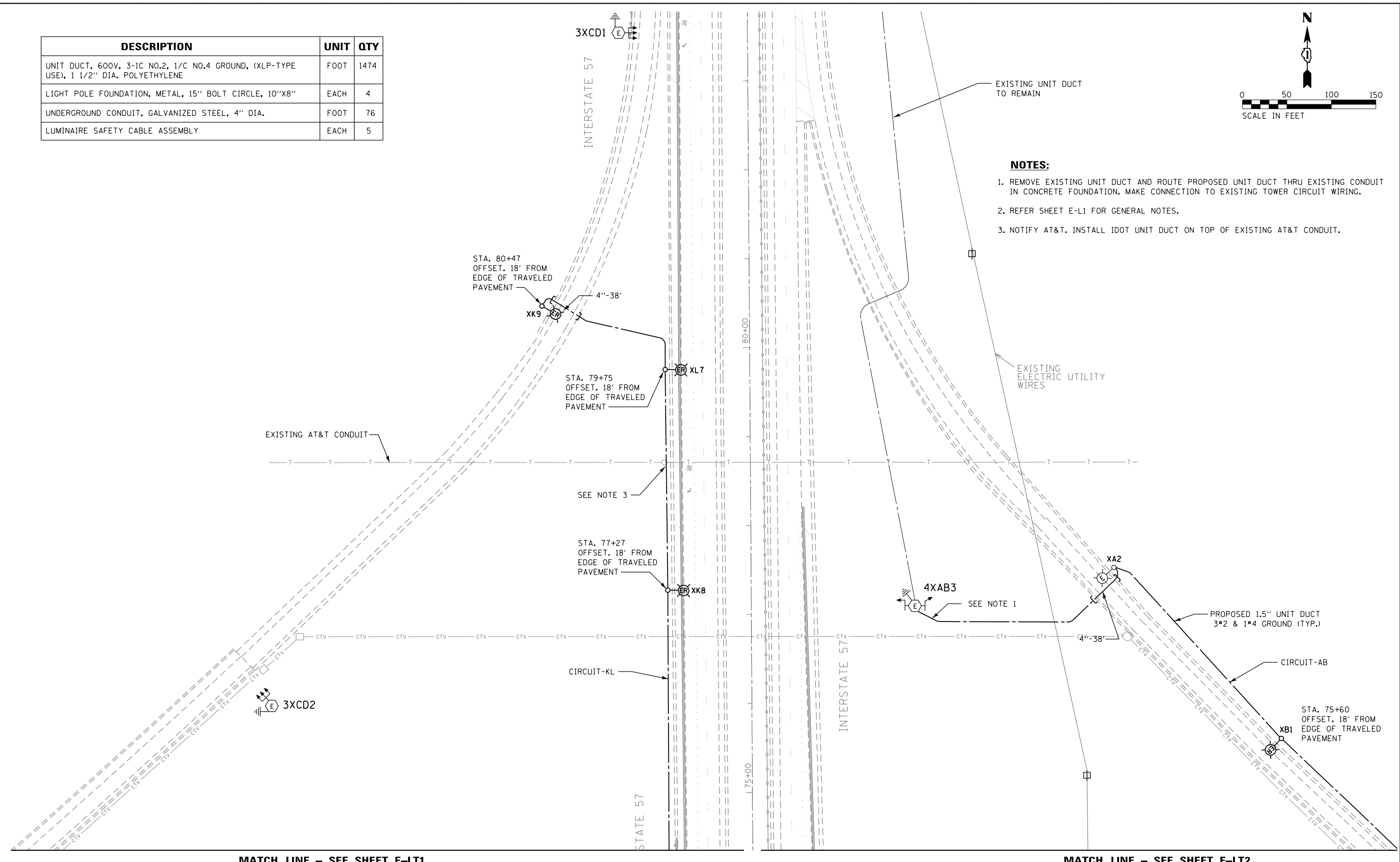
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2016-017L	COOK	88	27
CONTRACT NO. 62C35				
ILLINOIS FED. AID PROJECT				

DESCRIPTION	UNIT	QTY
UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE	FOOT	1474
LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 10"X8"	EACH	4
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	76
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	5



**NOTES:**

1. REMOVE EXISTING UNIT DUCT AND ROUTE PROPOSED UNIT DUCT THRU EXISTING CONDUIT IN CONCRETE FOUNDATION. MAKE CONNECTION TO EXISTING TOWER CIRCUIT WIRING.
2. REFER SHEET E-L1 FOR GENERAL NOTES.
3. NOTIFY AT&T. INSTALL IDOT UNIT DUCT ON TOP OF EXISTING AT&T CONDUIT.



MATCH LINE - SEE SHEET E-LT1

MATCH LINE - SEE SHEET E-LT2

E-LT4



USER NAME = *USER*	DESIGNED - HM	REVISED -
	DRAWN - GJ	REVISED -
PLOT SCALE = *SCALE*	CHECKED - HS	REVISED -
PLOT DATE = *DATE*	DATE - 03-21-2017	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PROPOSED LIGHTING PLAN  
I-57 /US-30 - SHEET 4 OF 4**

SCALE: SHEET OF SHEETS STA. TO STA.

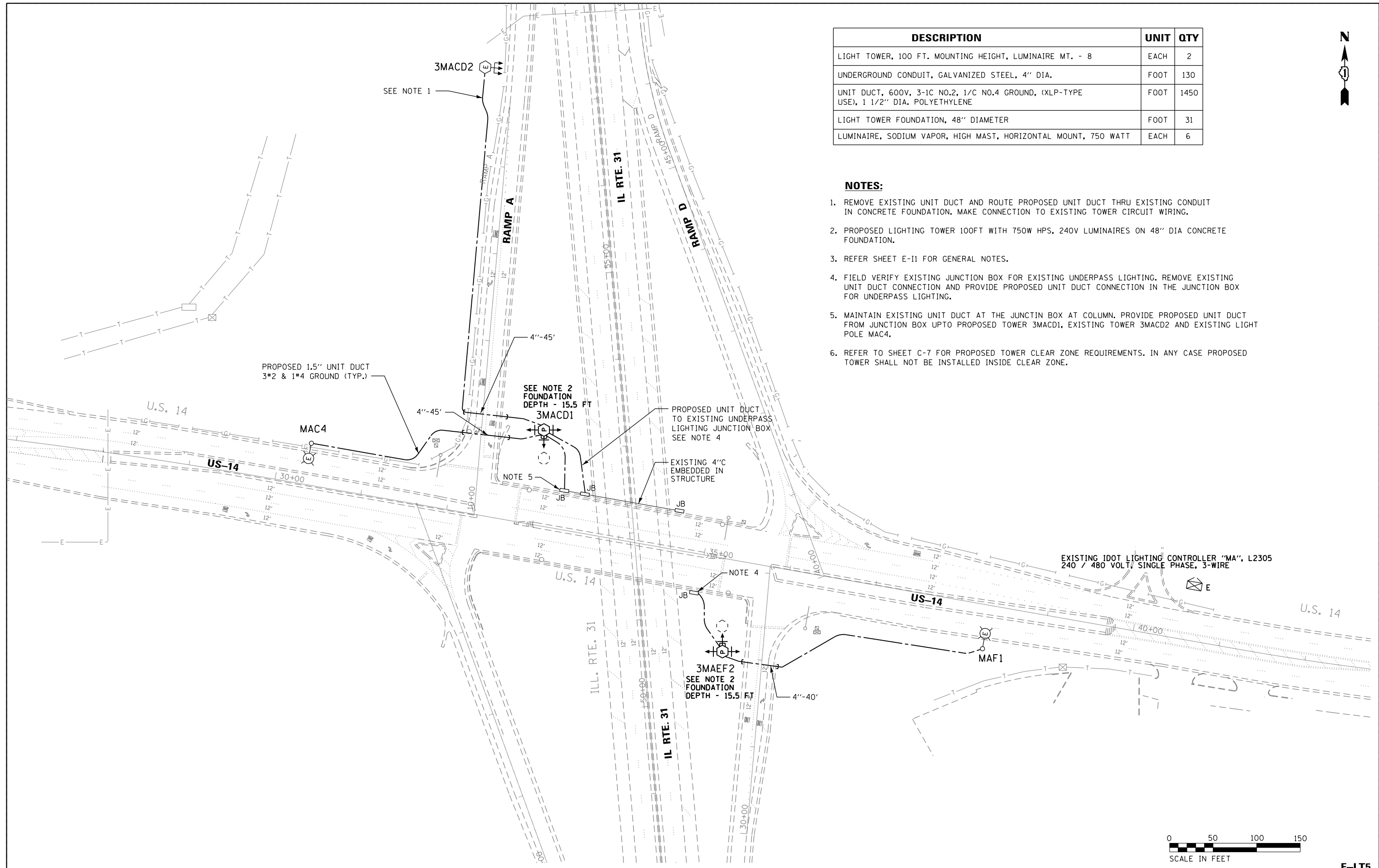
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2016-017L	COOK	88	28
CONTRACT NO. 62C35				
ILLINOIS FED. AID PROJECT				



DESCRIPTION	UNIT	QTY
LIGHT TOWER, 100 FT. MOUNTING HEIGHT, LUMINAIRE MT. - 8	EACH	2
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	130
UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE	FOOT	1450
LIGHT TOWER FOUNDATION, 48" DIAMETER	FOOT	31
LUMINAIRE, SODIUM VAPOR, HIGH MAST, HORIZONTAL MOUNT, 750 WATT	EACH	6

**NOTES:**

1. REMOVE EXISTING UNIT DUCT AND ROUTE PROPOSED UNIT DUCT THRU EXISTING CONDUIT IN CONCRETE FOUNDATION. MAKE CONNECTION TO EXISTING TOWER CIRCUIT WIRING.
2. PROPOSED LIGHTING TOWER 100FT WITH 750W HPS, 240V LUMINAIRES ON 48" DIA CONCRETE FOUNDATION.
3. REFER SHEET E-11 FOR GENERAL NOTES.
4. FIELD VERIFY EXISTING JUNCTION BOX FOR EXISTING UNDERPASS LIGHTING. REMOVE EXISTING UNIT DUCT CONNECTION AND PROVIDE PROPOSED UNIT DUCT CONNECTION IN THE JUNCTION BOX FOR UNDERPASS LIGHTING.
5. MAINTAIN EXISTING UNIT DUCT AT THE JUNCTIN BOX AT COLUMN. PROVIDE PROPOSED UNIT DUCT FROM JUNCTION BOX UPTO PROPOSED TOWER 3MACD1, EXISTING TOWER 3MACD2 AND EXISTING LIGHT POLE MAC4.
6. REFER TO SHEET C-7 FOR PROPOSED TOWER CLEAR ZONE REQUIREMENTS. IN ANY CASE PROPOSED TOWER SHALL NOT BE INSTALLED INSIDE CLEAR ZONE.



E-LT5



USER NAME = \$USER*	DESIGNED - HM	REVISED -
PLOT SCALE = \$SCALE*	DRAWN - GJ	REVISED -
PLOT DATE = \$DATE*	CHECKED - HS	REVISED -
	DATE - 03-21-2017	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

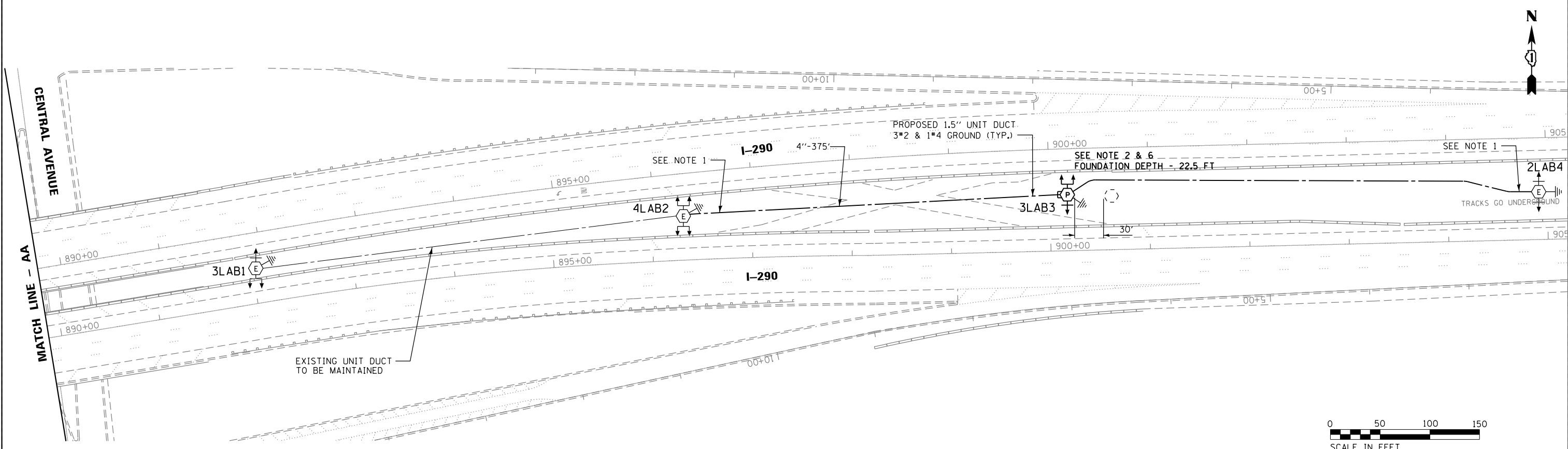
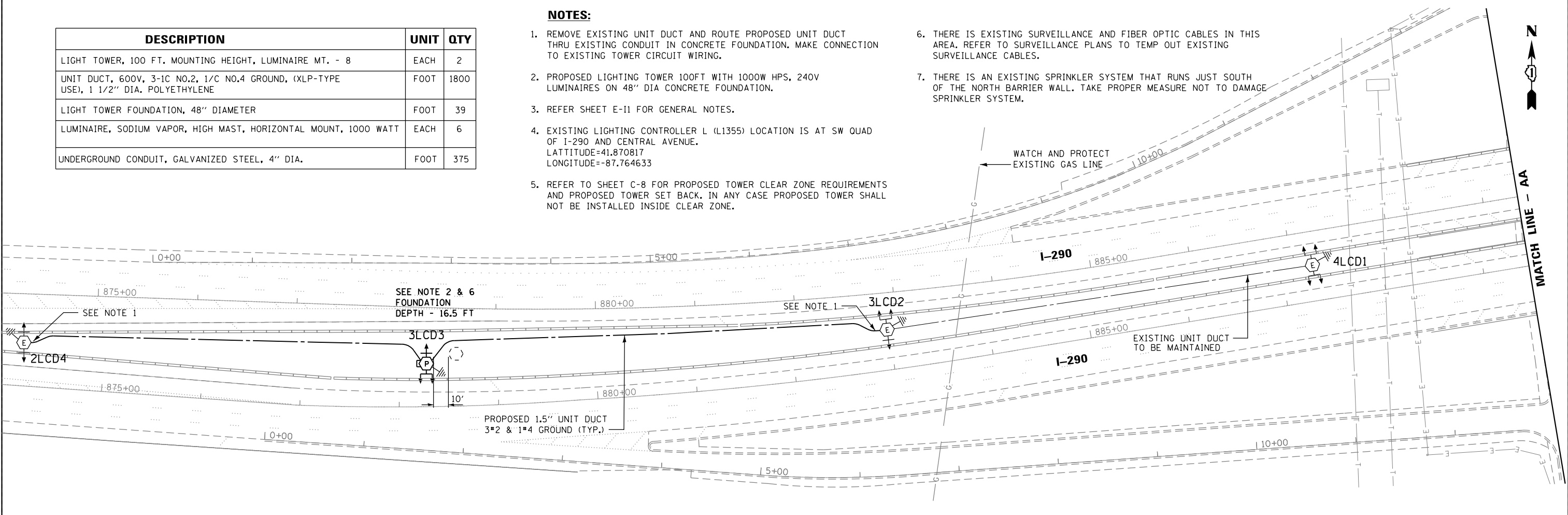
<b>PROPOSED LIGHTING PLAN US-14 / IL 31 - SHEET 1 OF 1</b>			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2016-017L	Mc Henry	88	29
CONTRACT NO. 62C35				
ILLINOIS FED. AID PROJECT				

DESCRIPTION	UNIT	QTY
LIGHT TOWER, 100 FT. MOUNTING HEIGHT, LUMINAIRE MT. - 8	EACH	2
UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE	FOOT	1800
LIGHT TOWER FOUNDATION, 48" DIAMETER	FOOT	39
LUMINAIRE, SODIUM VAPOR, HIGH MAST, HORIZONTAL MOUNT, 1000 WATT	EACH	6
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	375

**NOTES:**

1. REMOVE EXISTING UNIT DUCT AND ROUTE PROPOSED UNIT DUCT THRU EXISTING CONDUIT IN CONCRETE FOUNDATION. MAKE CONNECTION TO EXISTING TOWER CIRCUIT WIRING.
2. PROPOSED LIGHTING TOWER 100FT WITH 1000W HPS, 240V LUMINAIRES ON 48" DIA CONCRETE FOUNDATION.
3. REFER SHEET E-11 FOR GENERAL NOTES.
4. EXISTING LIGHTING CONTROLLER L (L1355) LOCATION IS AT SW QUAD OF I-290 AND CENTRAL AVENUE. LATTITUDE=41.870817 LONGITUDE=-87.764633
5. REFER TO SHEET C-8 FOR PROPOSED TOWER CLEAR ZONE REQUIREMENTS AND PROPOSED TOWER SET BACK. IN ANY CASE PROPOSED TOWER SHALL NOT BE INSTALLED INSIDE CLEAR ZONE.
6. THERE IS EXISTING SURVEILLANCE AND FIBER OPTIC CABLES IN THIS AREA. REFER TO SURVEILLANCE PLANS TO TEMP OUT EXISTING SURVEILLANCE CABLES.
7. THERE IS AN EXISTING SPRINKLER SYSTEM THAT RUNS JUST SOUTH OF THE NORTH BARRIER WALL. TAKE PROPER MEASURE NOT TO DAMAGE SPRINKLER SYSTEM.



USER NAME = *USER*	DESIGNED - HM	REVISED -
PLOT SCALE = *SCALE*	DRAWN - GJ	REVISED -
PLOT DATE = *DATE*	CHECKED - HS	REVISED -
	DATE - 03-21-2017	REVISED -

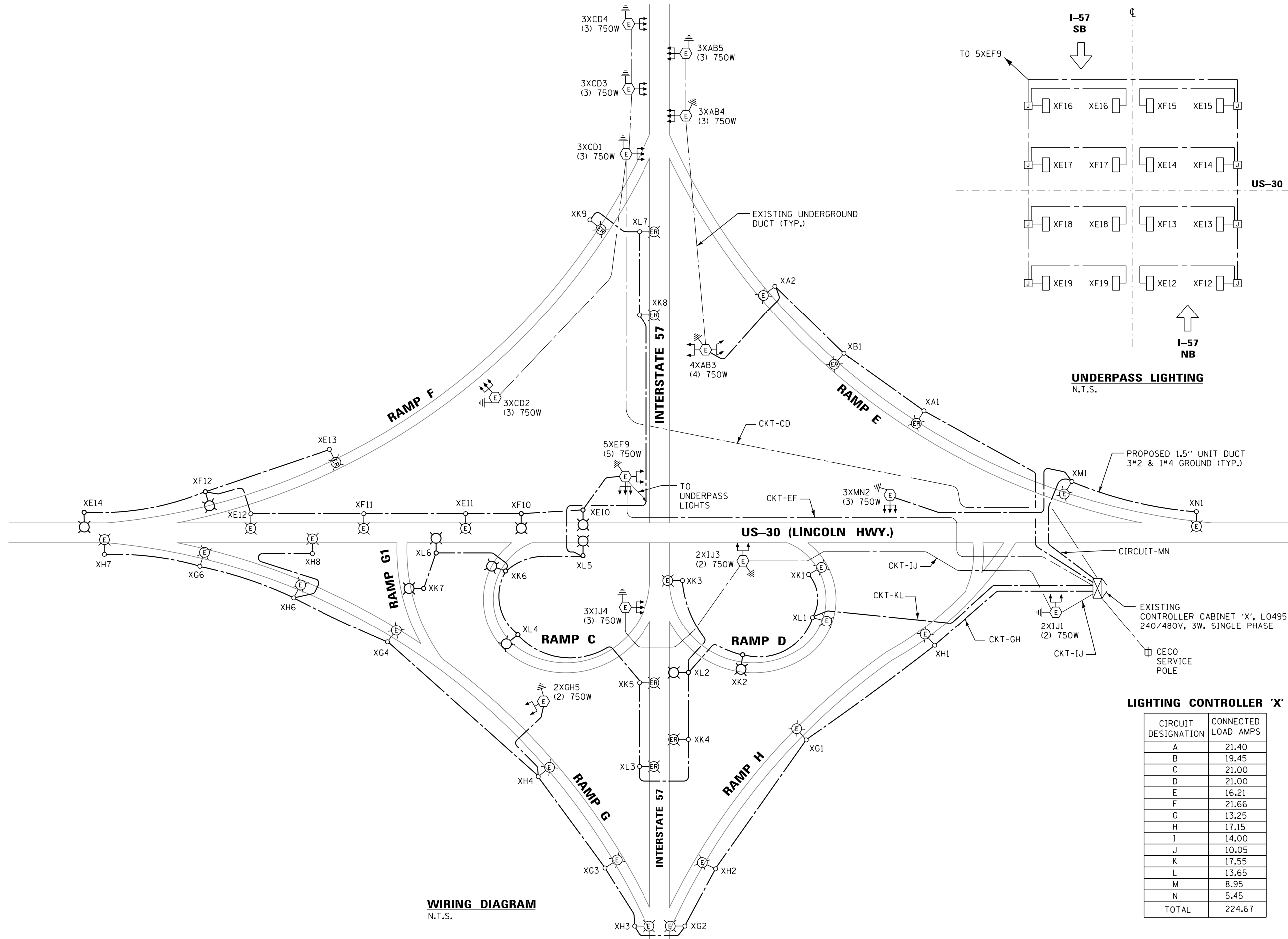
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PROPOSED LIGHTING PLAN  
I-290 / CENTRAL AVE. - SHEET 1 OF 1**

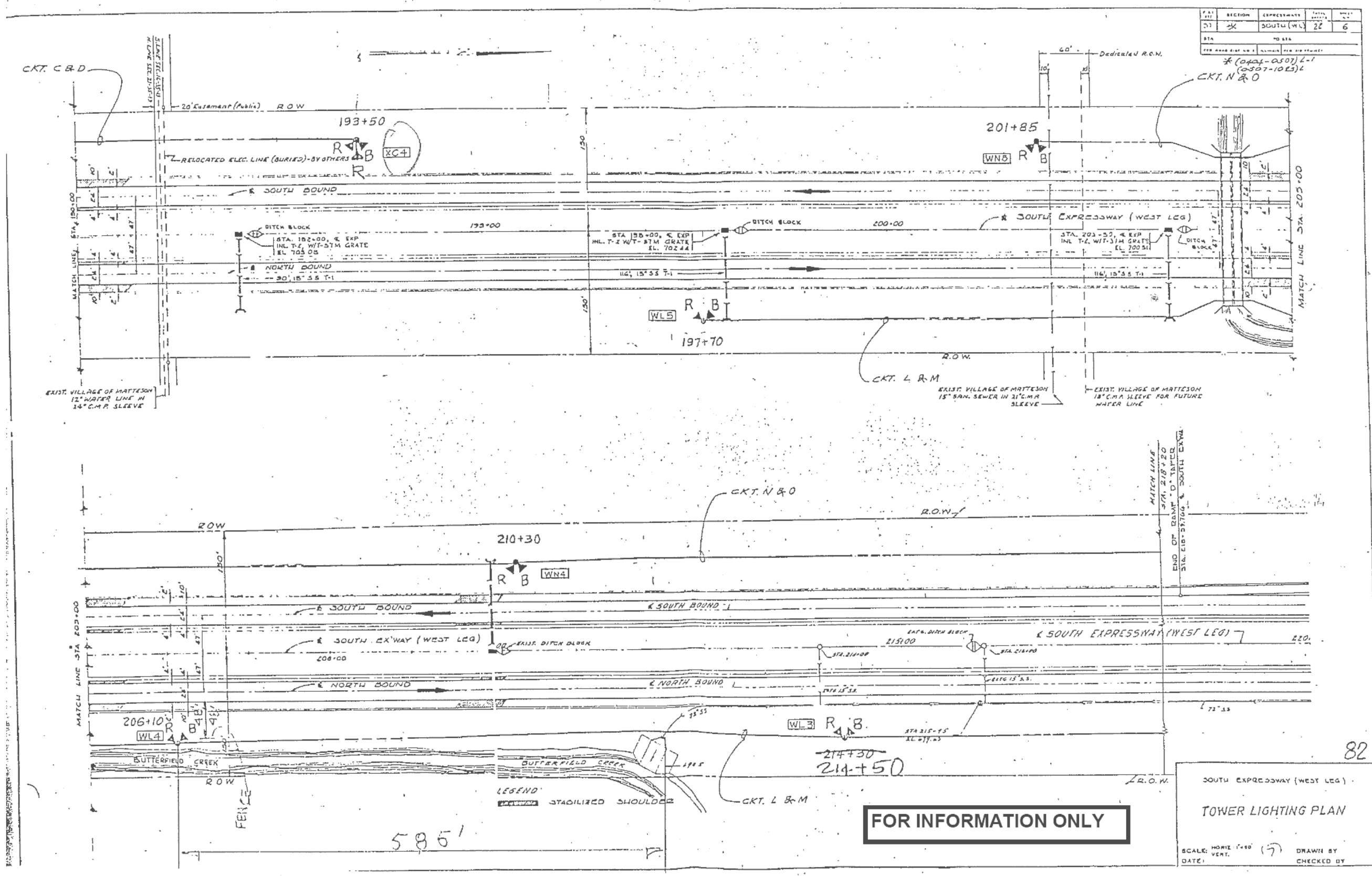
SCALE: 1"=50' SHEET 12 OF 14 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2016-017L	COOK	88	30
CONTRACT NO. 62C35				
ILLINOIS FED. AID PROJECT				

**E-LT6**



492-495



F.A. RT.	SECTION	EXPRESSWAY	TOTAL SHEETS	SHEET NO.
51	2016-017L	SOUTH (W.L.)	22	6

**FOR INFORMATION ONLY**

SOUTH EXPRESSWAY (WEST LEG)  
 TOWER LIGHTING PLAN  
 SCALE: HORIZ. 1"=100'  
 VERT. 1"=10'  
 DATE: \_\_\_\_\_ DRAWN BY \_\_\_\_\_ CHECKED BY \_\_\_\_\_



USER NAME = *USER*	DESIGNED - HM	REVISED -
PLOT SCALE = *SCALE*	DRAWN - GJ	REVISED -
PLOT DATE = *DATE*	CHECKED - HS	REVISED -
	DATE - 03-21-2017	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

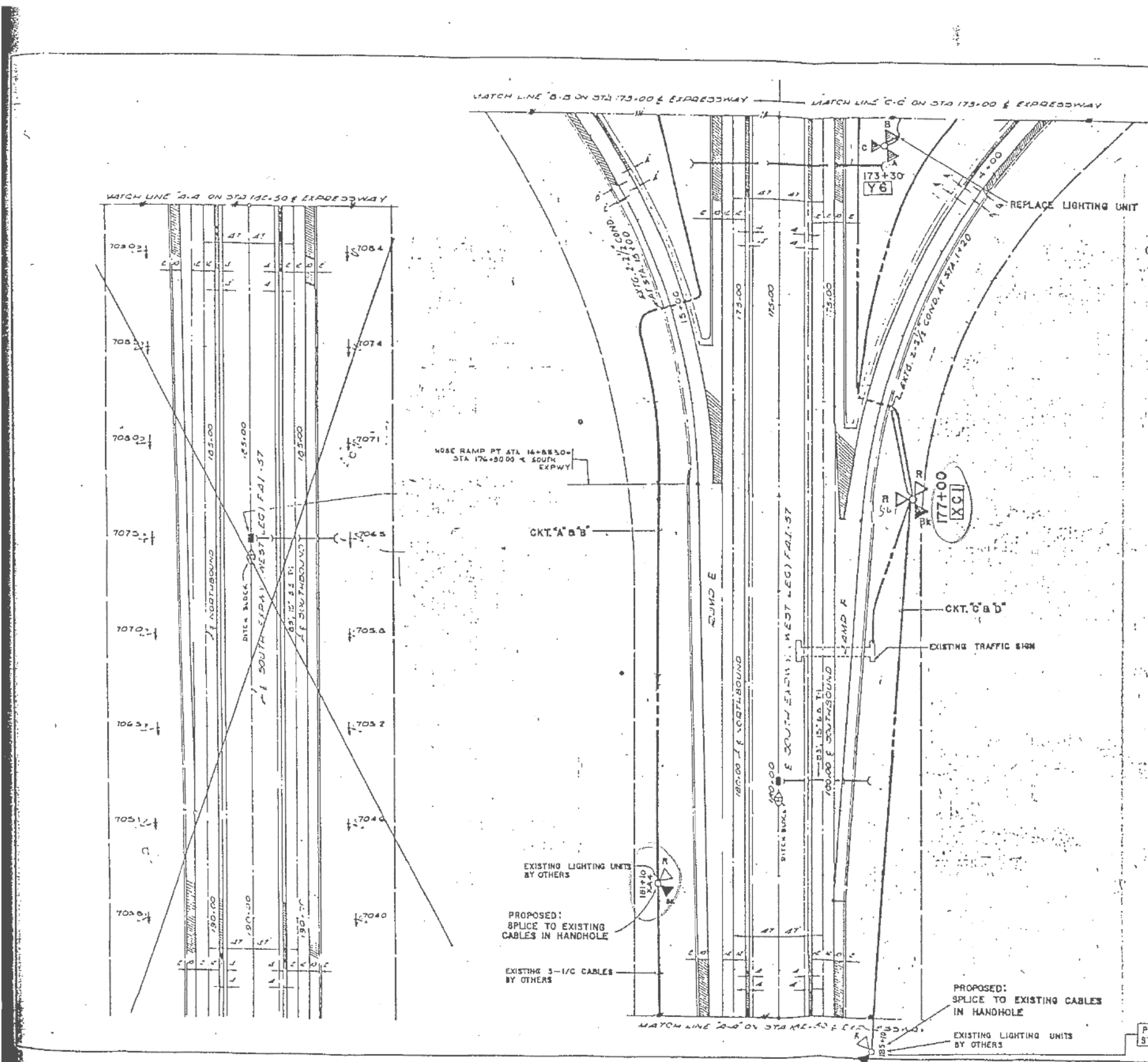
I-57 / US-30 INFORMATION ONLY SHEET			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A. RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2016-017L		88	32
CONTRACT NO. 62C35				
ILLINOIS FED. AID PROJECT				

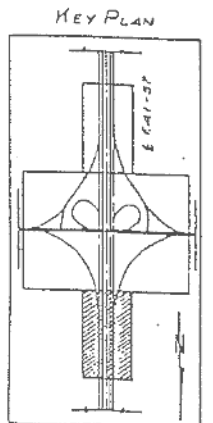




FILE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	017L	COOK	17	10
STA.	TO STA.			
173+00	185+00			



**FOR INFORMATION ONLY**



ILLINOIS DEPARTMENT OF TRANSPORTATION  
 SOUTH EXPRESSWAY (WEST LEG)  
 AND LINCOLN HIGHWAY INTERCHANGE  
**LIGHTING PLAN**

REVISIONS	
NAME	DATE

PROJECT ENDS AT STA. 185+10

SCALE: HORIZ. 1" = 50'  
 VERT. 1" = 10'  
 DATE: 9-30-72  
 DRAWN BY: [Signature]  
 CHECKED BY: [Signature]  
 REVIEWED BY: [Signature]



USER NAME = *USER*	DESIGNED - HM	REVISED -
PLOT SCALE = *SCALE*	DRAWN - GJ	REVISED -
PLOT DATE = *DATE*	CHECKED - HS	REVISED -
	DATE - 03-21-2017	REVISED -

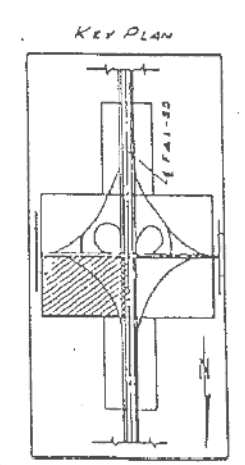
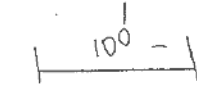
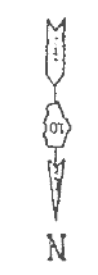
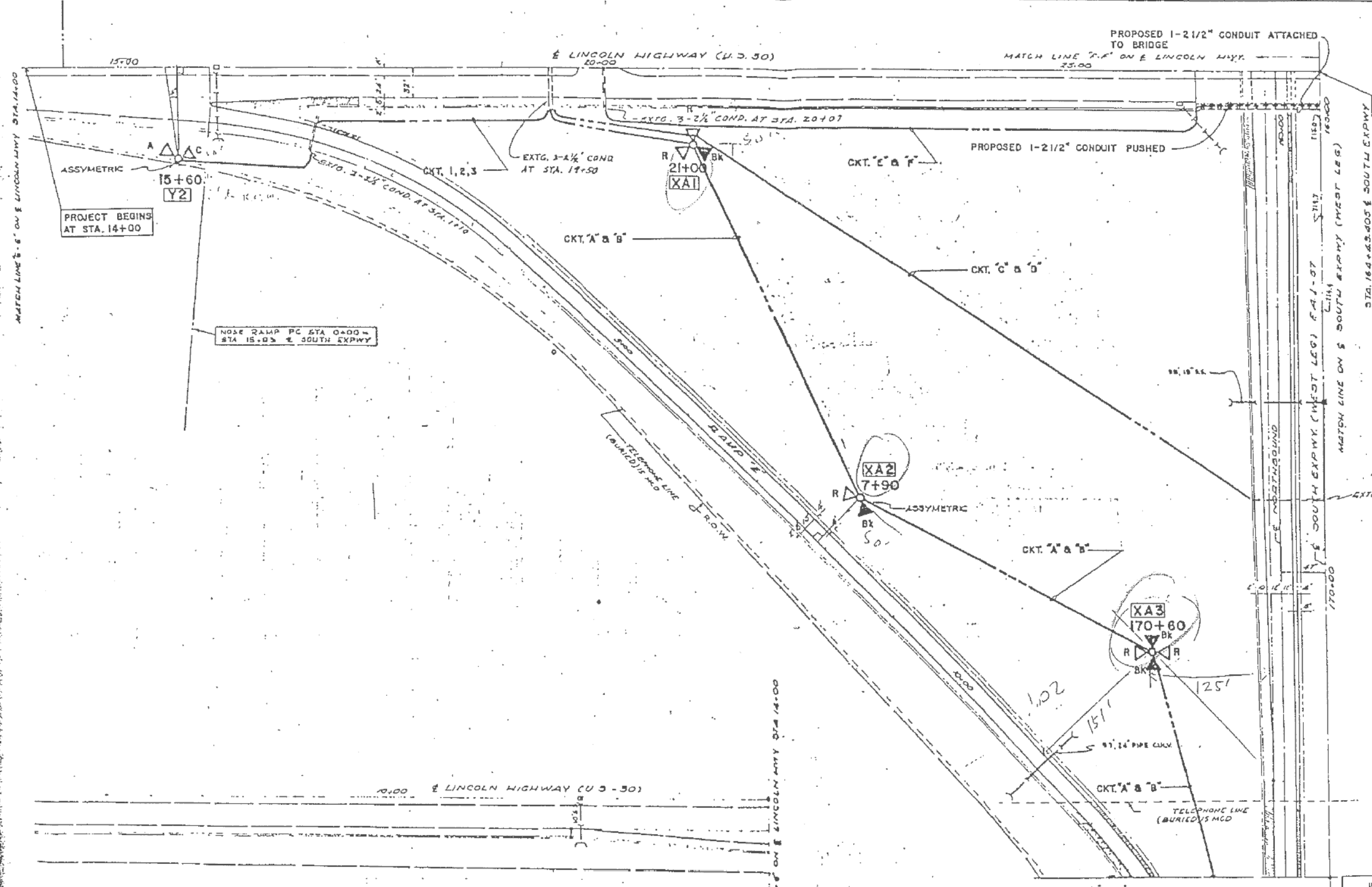
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**I-57 / US-30  
 INFORMATION ONLY SHEET**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2016-017L		88	34
CONTRACT NO. 62C35				
ILLINOIS FED. AID PROJECT				

STA.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	2016-017L	COOK	17	9
STA.	TO STA.			
100	PER SHEET NO. 1			



**FOR INFORMATION ONLY**

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
SOUTH EXPRESSWAY (WEST LEG)  
AND LINCOLN HIGHWAY INTERCHANGE

**LIGHTING PLAN**

SCALE: HORIZ. 1" = 40' VERT. 1" = 10'  
DATE: 7-21-22 DRAWN BY: VJS/DA  
CHECKED BY:

85



USER NAME = *USER*	DESIGNED - HM	REVISED -
PLOT SCALE = *SCALE*	DRAWN - GJ	REVISED -
PLOT DATE = *DATE*	CHECKED - HS	REVISED -
	DATE - 03-21-2017	REVISED -

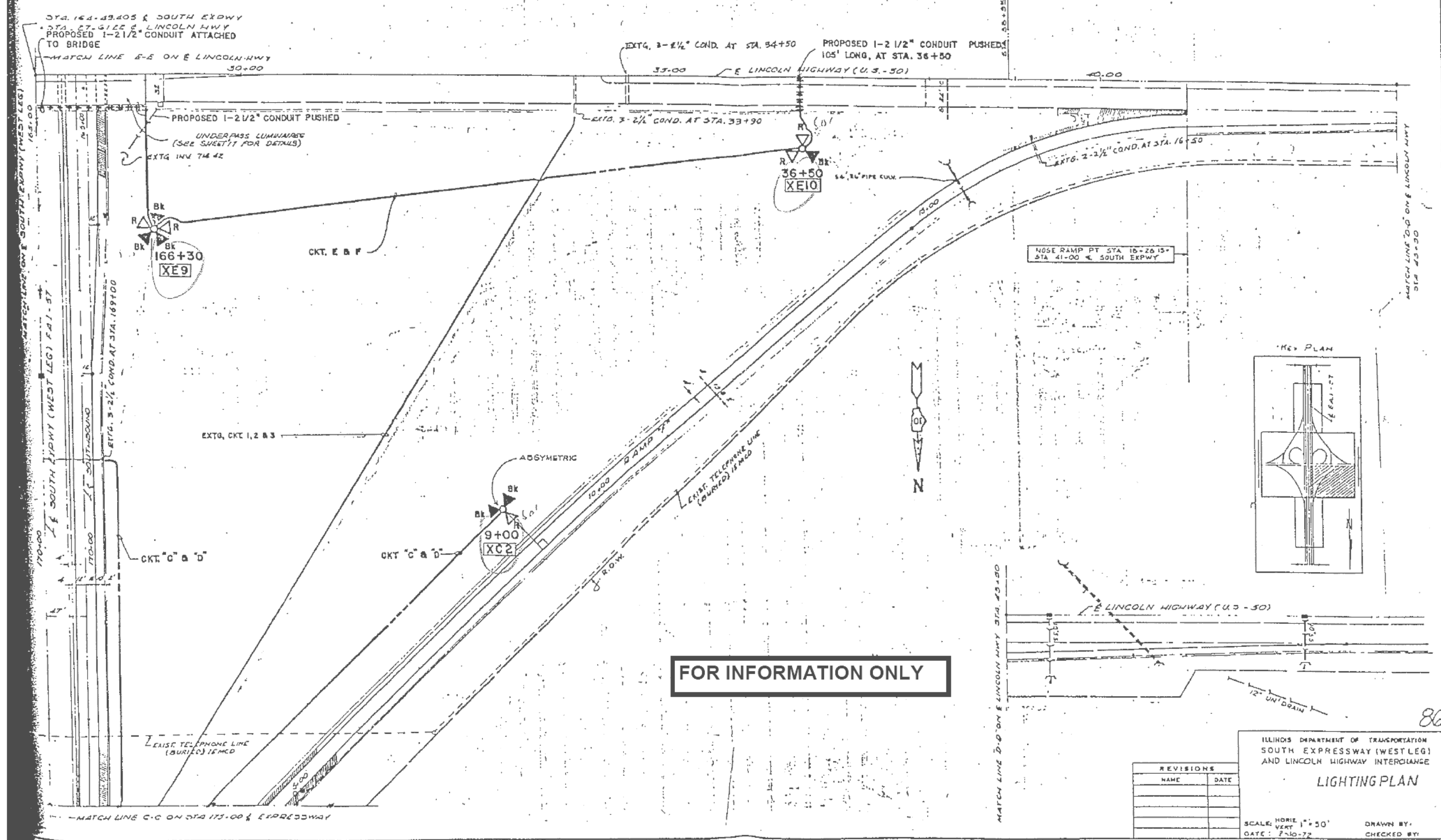
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-57 / US-30  
INFORMATION ONLY SHEET**

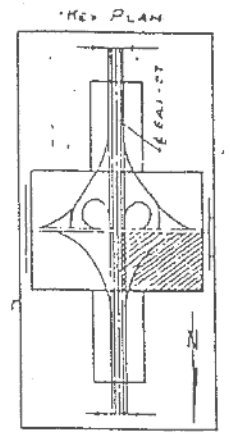
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2016-017L		88	35
			CONTRACT NO. 62C35	
ILLINOIS FED. AID PROJECT				

SECTION	COUNTY	TOWNSHIP	RANGE
ST 2004-001L	COOK	1T	8
STA	TO STA		
100+00	100+00		



**FOR INFORMATION ONLY**



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 SOUTH EXPRESSWAY (WEST LEG)  
 AND LINCOLN HIGHWAY INTERCHANGE  
**LIGHTING PLAN**  
 SCALE: HORIZ 1" = 50'  
 VERT 1" = 10'  
 DATE: 7-10-72  
 DRAWN BY:  
 CHECKED BY:



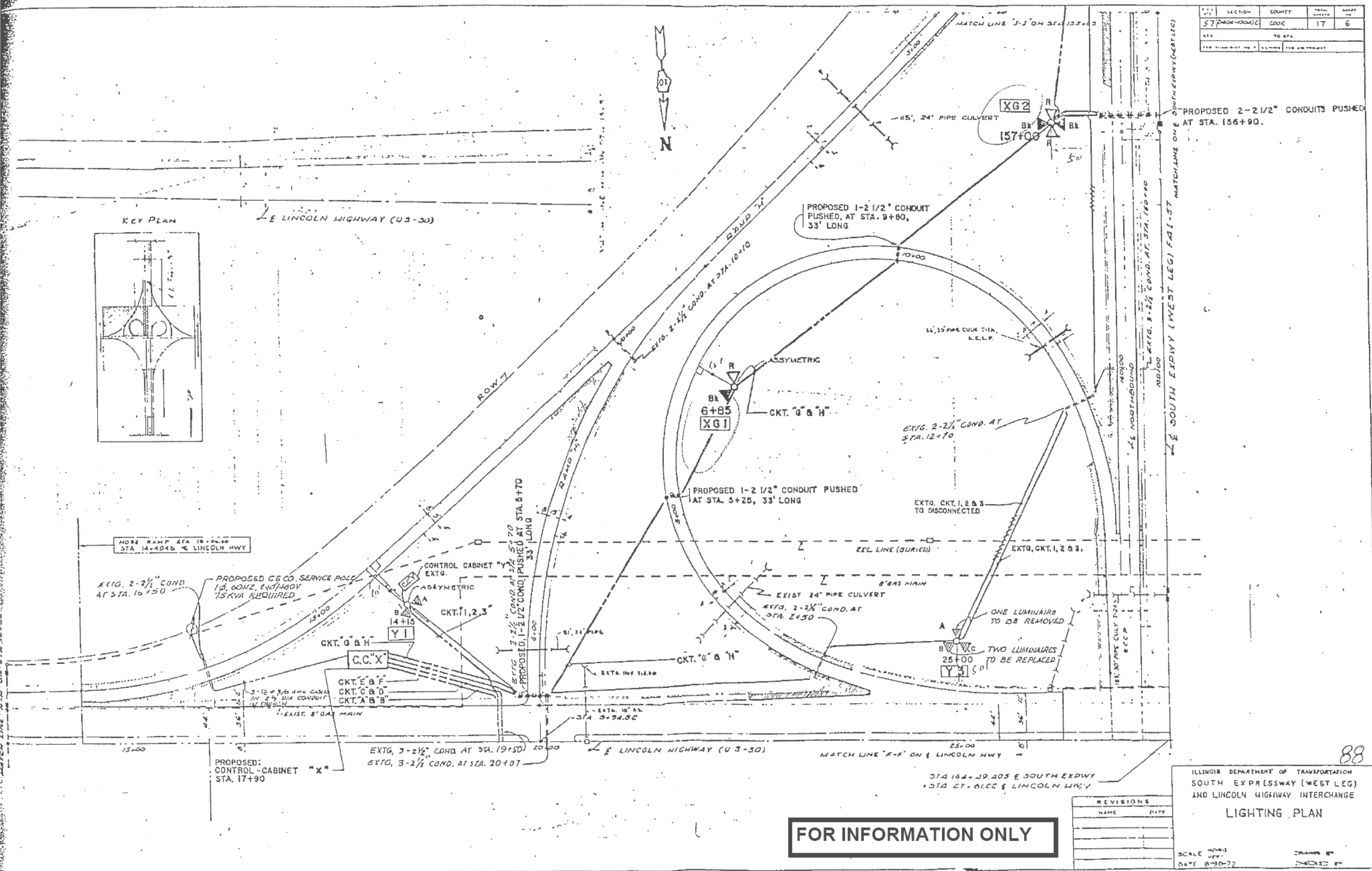
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PLOT DATE = *DATE*	CHECKED - HS	REVISED -
	DATE - 03-21-2017	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

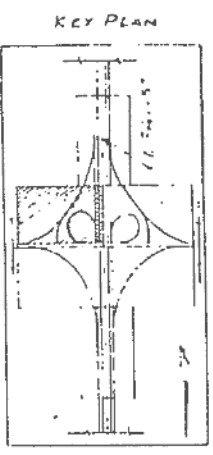
I-57 / US-30 <b>INFORMATION ONLY SHEET</b>			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2016-017L		88	36
CONTRACT NO. 62C35				
ILLINOIS FED. AID PROJECT				





SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57 (2016-001)C	COOK	17	6
STA.	TO STA.		
156+00	157+00		



**FOR INFORMATION ONLY**

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 SOUTH EXPRESSWAY (WEST LEG)  
 AND LINCOLN HIGHWAY INTERCHANGE  
**LIGHTING PLAN**

SCALE: 1/4" = 1'-0"  
 DATE: 8-30-72

88



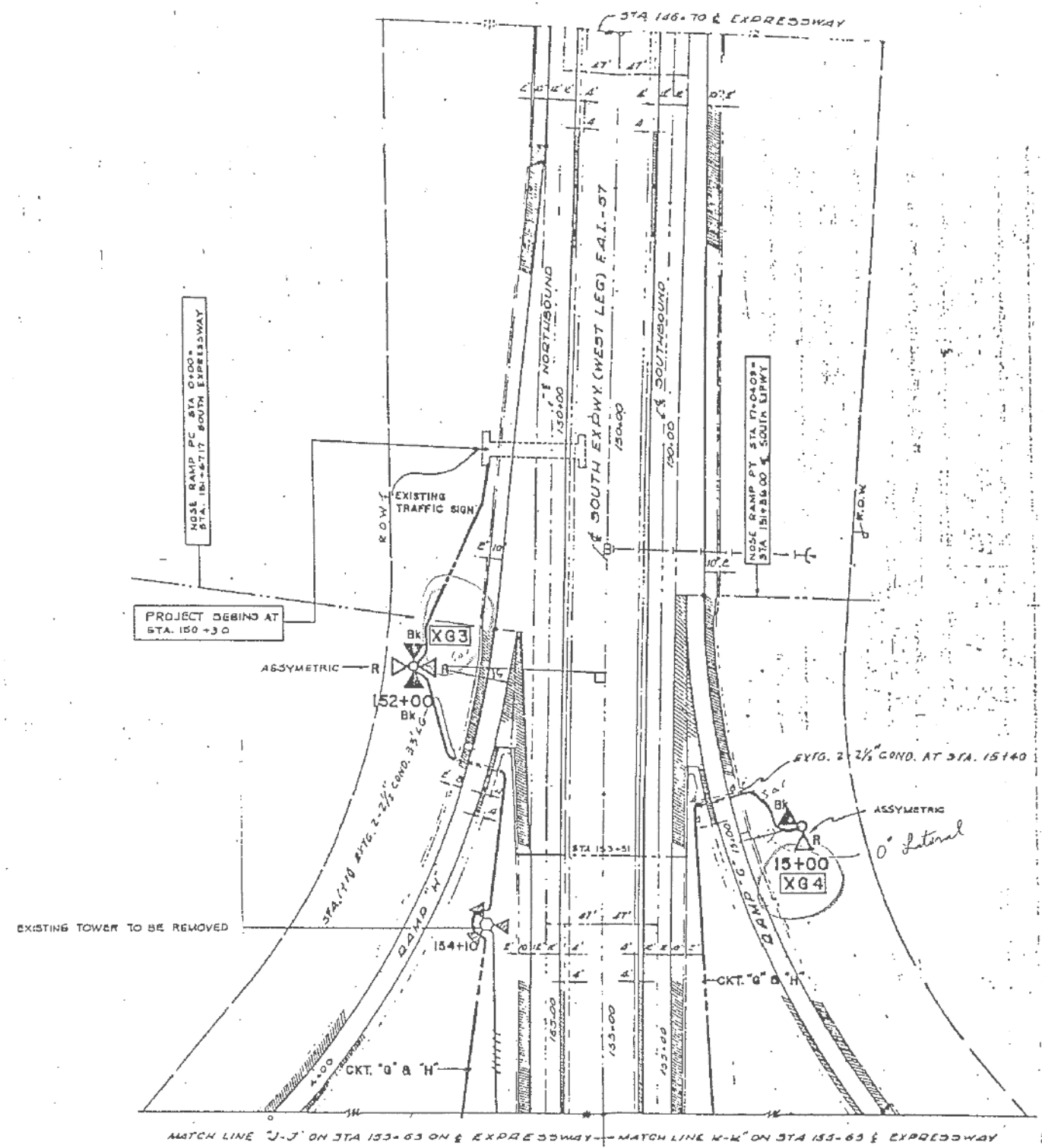
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	DATE - 03-21-2017	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

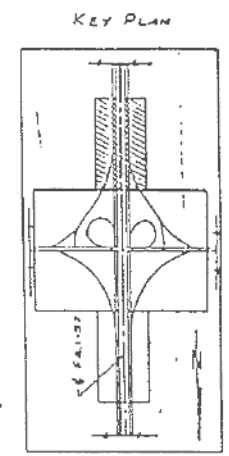
I-57 / US-30 <b>INFORMATION ONLY SHEET</b>			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2016-017L		88	38
CONTRACT NO. 62C35				
ILLINOIS FED. AID PROJECT				

FILE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	2016-001L	COOK	17	5
STA.	TO STA.			
FOR AREA REF. NO.	ALIGNED	FOR INTERCHG.		



**FOR INFORMATION ONLY**



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 SOUTH EXPRESSWAY (WEST LEG)  
 AND LINCOLN HIGHWAY INTERCHANGE  
**LIGHTING PLAN**  
 SCALE: HORIZ. 1" = 50'  
 VERT. DATE: 8-31-72  
 DRAWN BY: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_

89



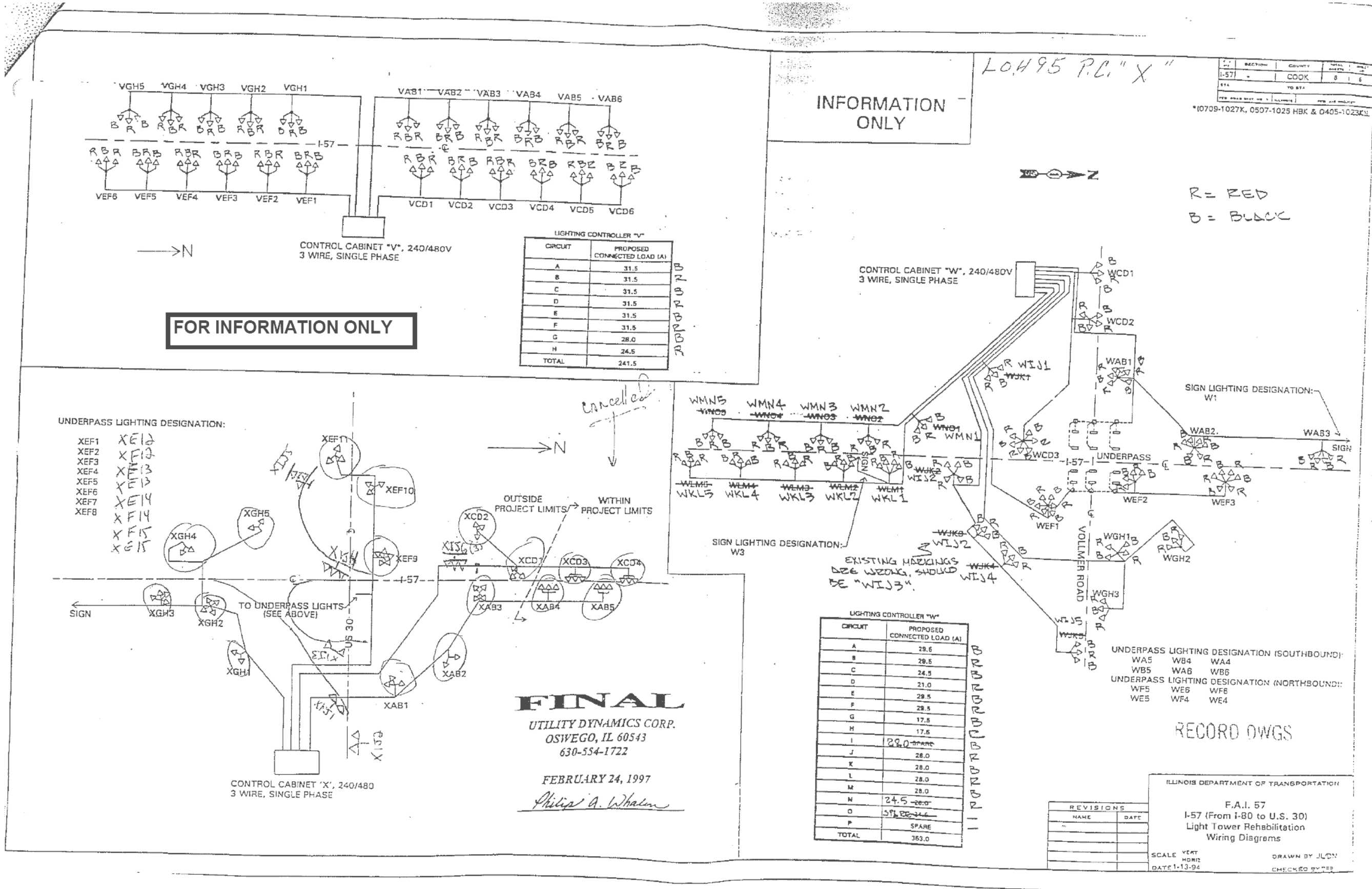
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PLOT SCALE = *SCALE*	DRAWN - GJ	REVISED -
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	DATE - 03-21-2017	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

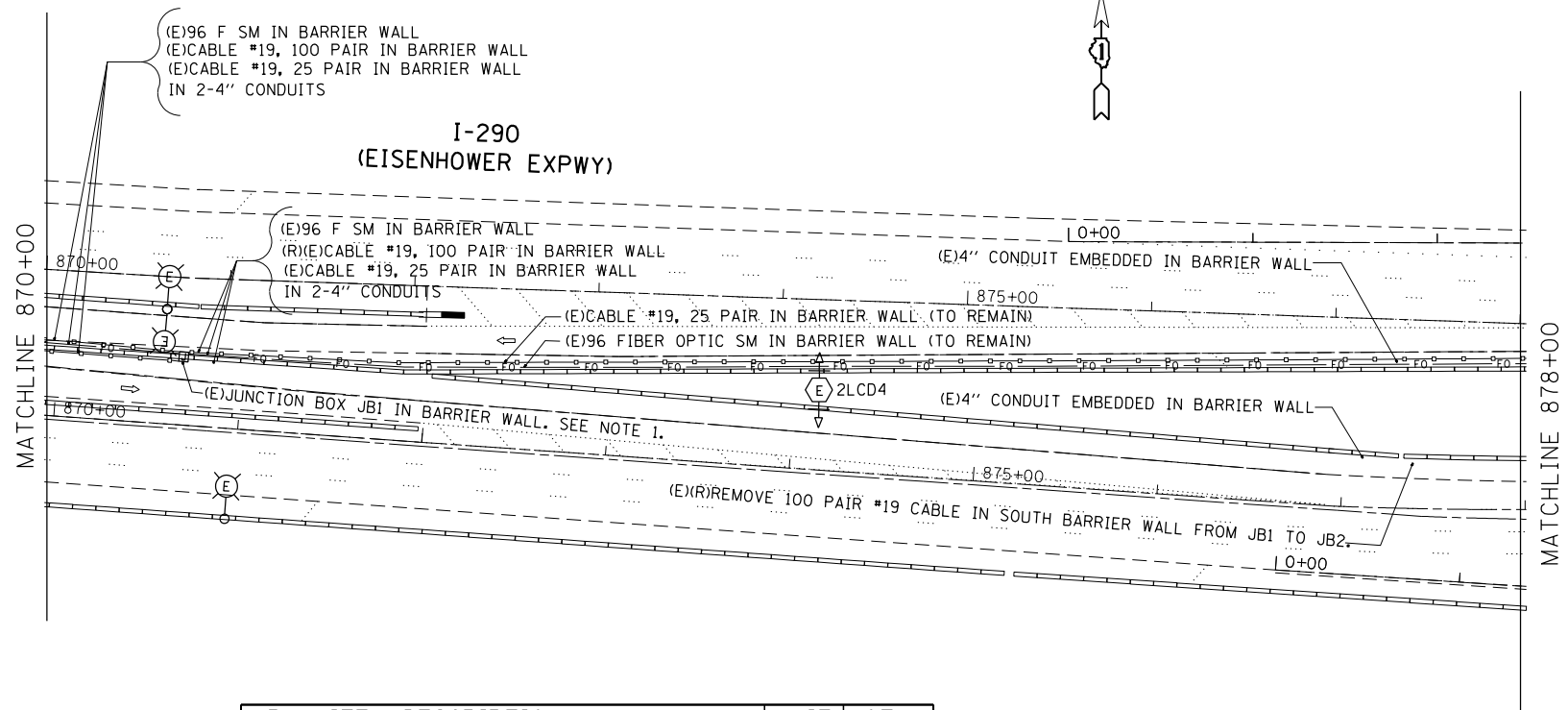
**I-57 / US-30  
 INFORMATION ONLY SHEET**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2016-017L		88	39
CONTRACT NO. 62C35				
ILLINOIS FED. AID PROJECT				



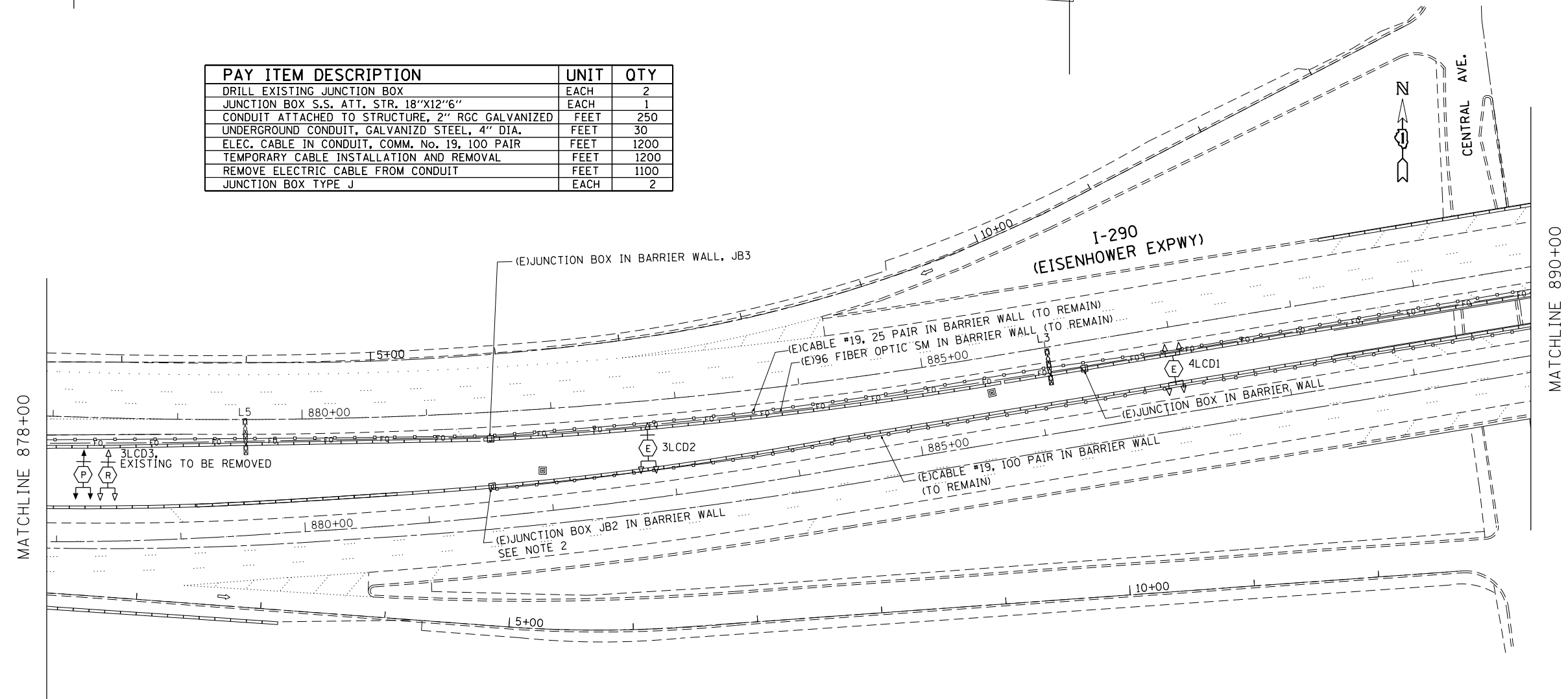


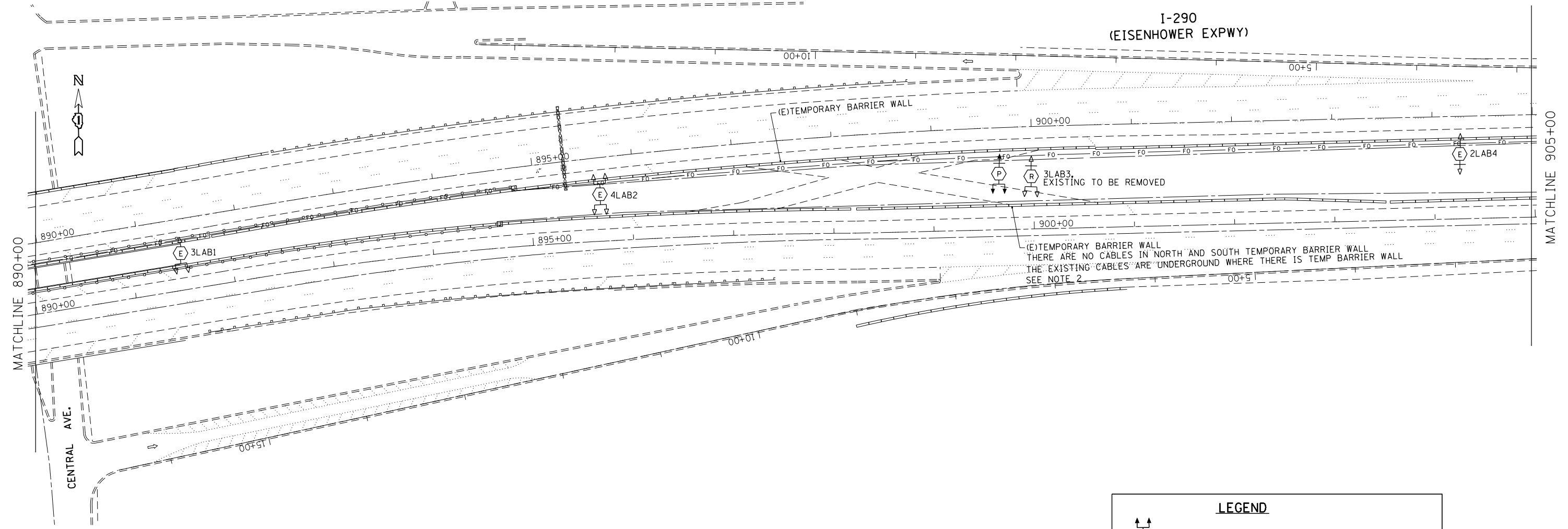


LEGEND	
	EXISTING HIGH MAST LIGHTING TOWER
	EXISTING HIGH MAST LIGHTING TOWER TO BE REMOVED
	EXISTING JUNCTION BOX
	EXISTING FIBER OPTIC IN BARRIER WALL
	EXISTING CABLE IN BARRIER WALL
(E)	EXISTING
(R)	REMOVE
(P)	PROPOSED

- NOTES:**
- ALL THREE CABLES ENTER JB1. DISCONNECT THE EXISTING SPLICES FROM THE 100 PAIR CABLE COMING FROM THE SOUTH BARRIER WALL IN THIS JUNCTION BOX. THE CONTRACTOR SHOULD EXERCISE CARE AND PROTECT FIBER OPTIC CABLE AND 25 PAIR CABLE FROM DAMAGE FROM NORTH BARRIER WALL.
  - DISCONNECT THE EXISTING SPLICES FROM THE 100 PAIR CABLE FROM SOUTH BARRIER WALL IN THIS JUNCTION BOX.
  - CONTRACTOR MUST CALL IDOT, EMC OR ROY LAWSON AT (708)524-2145 FOR CABLE LOCATES AND BEFORE ANY DISCONNECTION OF ANY CABLES. EMC REPRESENTATIVE MUST BE PRESENT IN ALL STAGES OF CABLE SPLICE, CONNECTIONS AND DISCONNECTIONS.
  - REFER TO CIVIL AND LIGHTING PLANS FOR REMOVAL OF BARRIER WALL, LIGHT TOWER AND TRAFFIC STAGING.
  - CONTRACTOR SHOULD TAKE PROPER MEASURE NOT TO DAMAGE THE IRRIGATION SYSTEM ON I-290 MEDIAN. THE VALVES AND CONTROLS ARE TYPICALLY PLACED BY THE MEDIAN NORTH BARRIER WALL AND FLEXIBLE DRIP PIPES ARE SCATTERED THROUGHOUT THE MEDIAN. NOTIFY CDOT BEFORE START OF WORK.

PAY ITEM DESCRIPTION	UNIT	QTY
DRILL EXISTING JUNCTION BOX	EACH	2
JUNCTION BOX S.S. ATT. STR. 18"x12"x6"	EACH	1
CONDUIT ATTACHED TO STRUCTURE, 2" RGC GALVANIZED	FEET	250
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FEET	30
ELEC. CABLE IN CONDUIT, COMM. No. 19, 100 PAIR	FEET	1200
TEMPORARY CABLE INSTALLATION AND REMOVAL	FEET	1200
REMOVE ELECTRIC CABLE FROM CONDUIT	FEET	1100
JUNCTION BOX TYPE J	EACH	2



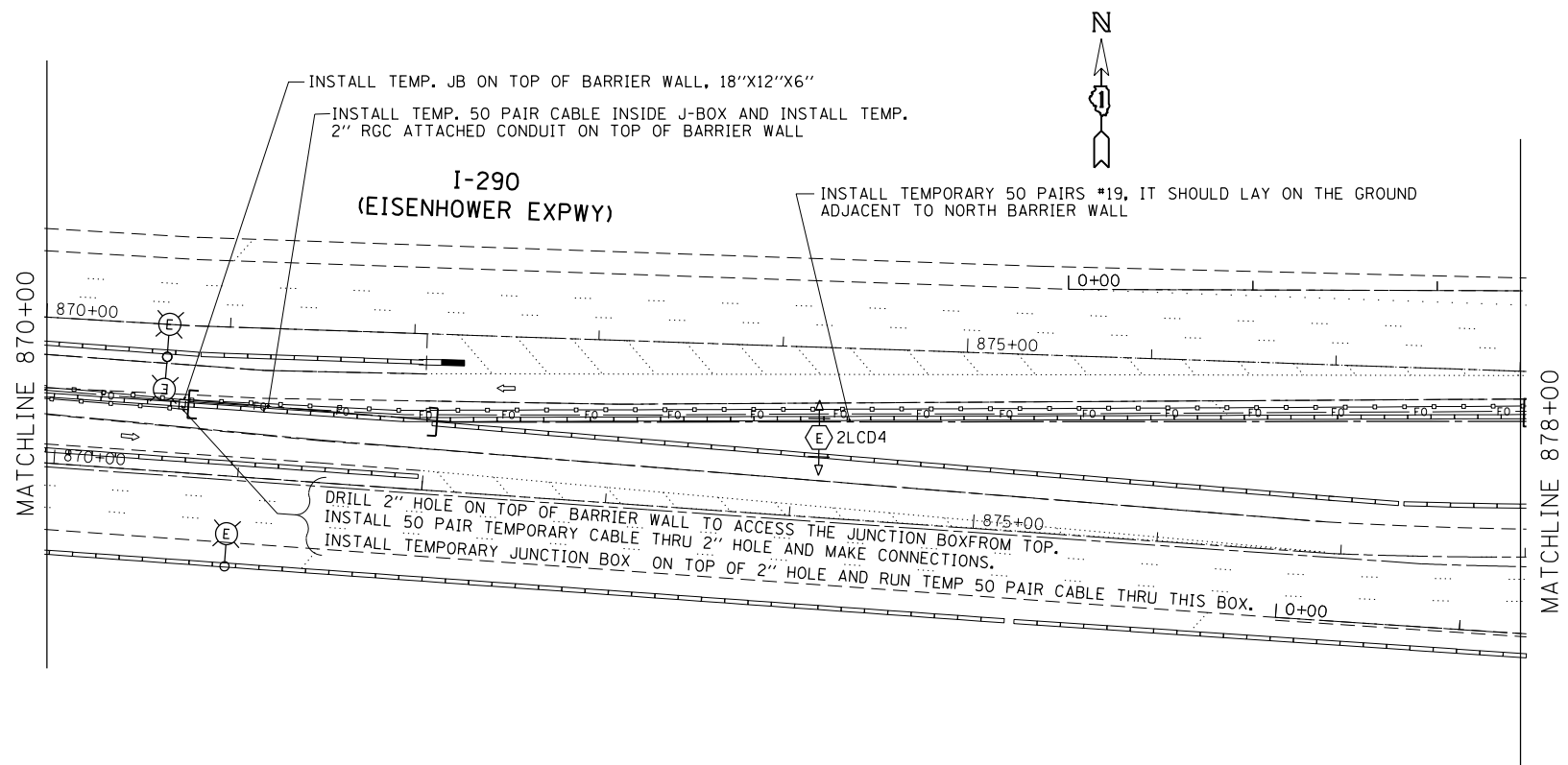


- NOTES:**
- 1.- LOCATION FOR SURVEILLANCE CABLES ARE UNDER GROUND FROM EAST OF JB4 AND EAST OF JB5 TO PERMANENT BARRIER WALL TO THE EAST.
  - 2.- CONTRACTOR MUST CALL IDOT, EMC OR ROY LAWSON AT (708)524-2145 FOR CABLE LOCATES AND BEFORE ANY DISCONNECTION OF ANY CABLES.
  - 3.- CONTRACTOR SHOULD TAKE PROPER MEASURE NOT TO DAMAGE THE IRRIGATION SYSTEM ON I-290 MEDIAN BY TOWER 4LAB2. THE VALVES AND CONTROLS ARE TYPICALLY PLACED BY THE MEDIAN NORTH BARRIER WALL AND FLEXIBLE DRIP PIPES ARE SCATTERED THROUGHOUT THE MEDIAN. NOTIFY CDOT BEFORE START OF WORK.

LEGEND	
	EXISTING HIGH MAST LIGHTING TOWER
	EXISTING HIGH MAST LIGHTING TOWER TO BE REMOVED
	EXISTING JUNCTION BOX
	EXISTING FIBER OPTIC IN BARRIER WALL
	EXISTING CABLE IN BARRIER WALL
(E)	EXISTING
(R)	REMOVE
(P)	PROPOSED

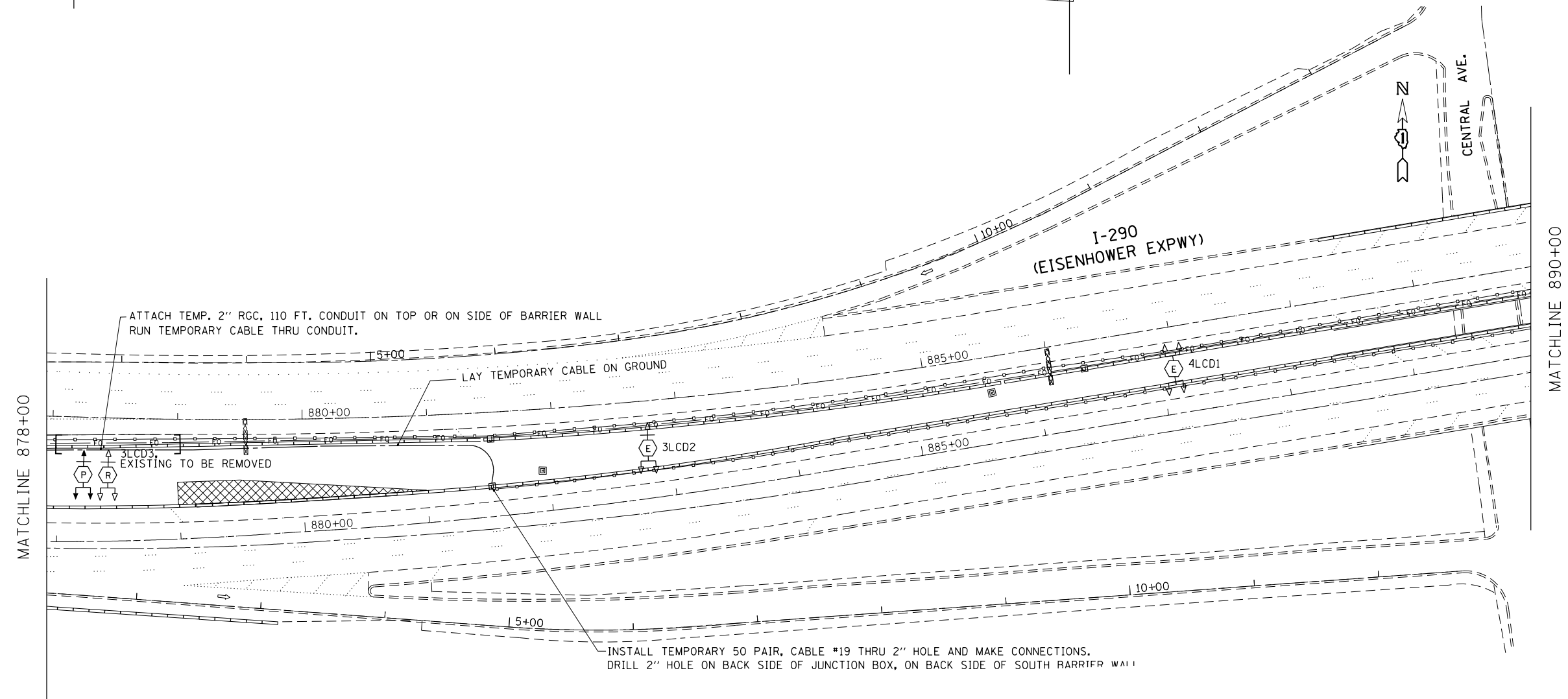
FILE NAME =	USER NAME = mezag	DESIGNED - T.G., J.G.	REVISED - T.G., 03/18	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>I-290 AT CENTRAL EXISTING AND REMOVAL SURVEILLANCE PLANS</b>				SURV-02	
pw:\IL\084EBIDINTEG\Illinois.gov\PI\DOT\Documents\IDOT Offices\District 1\Projects\Electrification\2016\I-290Central\REVISED	PLOT SCALE = 100.0000' / in.	CHECKED - T.G., J.G.	REVISED -		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Default	PLOT DATE = 3/22/2018	DATE - 08/01/2017	REVISED -		VAR	2016-017L	COOK	88	42	
					SCALE:	SHEET	OF	SHEETS	STA.	TO STA.

ILLINOIS FED. AID PROJECT CONTRACT NO. 62C35



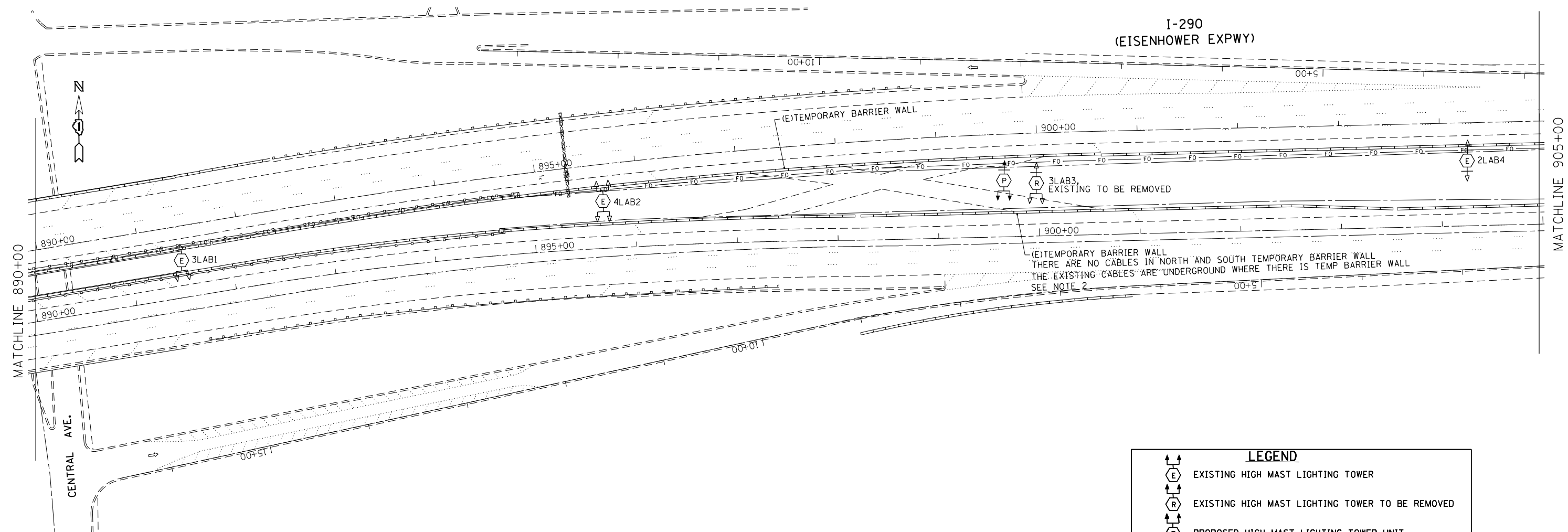
LEGEND	
	EXISTING HIGH MAST LIGHTING TOWER
	EXISTING HIGH MAST LIGHTING TOWER TO BE REMOVED
	PROPOSED HIGH MAST LIGHTING TOWER UNIT
	EXISTING JUNCTION BOX
	EXISTING FIBER OPTIC IN BARRIER WALL
	EXISTING CABLE IN BARRIER WALL
	TEMPORARY 50 PAIR, #19
(E)	EXISTING
(R)	REMOVE
(P)	PROPOSED
	2" RGC ATTACHED ON TOP OF BARRIER WALL

- NOTES:**
- 1.- THE TEMPORARY ACCESS FOR THE TOWER TO BE REMOVED WILL COME FROM THE SOUTH SIDE. REFER TO THE CIVIL AND LIGHTING PLANS.
  - 2.- AFTER THE PROPOSED ITEMS ARE INSTALLED, THE TEMPORARY CABLE, TEMP. JUNCTION BOX AND CONDUIT SHALL BE REMOVED AND KEPT BY THE CONTRACTOR. AFTER TEMPORARY JB AND CONDUIT REMOVAL, SEAL ALL BOLT PENETRATIONS WITH CONCRETE OR GROUT.
  - 3.- CONTRACTOR SHOULD TAKE PROPER MEASURE NOT TO DAMAGE THE IRRIGATION SYSTEM ON I-290 MEDIAN. THE VALVES AND CONTROLS ARE TYPICALLY PLACED BY THE MEDIAN NORTH BARRIER WALL AND FLEXIBLE DRIP PIPES ARE SCATTERED THROUGHOUT THE MEDIAN. NOTIFY CDOT BEFORE START OF WORK.



FILE NAME =	USER NAME = mezag	DESIGNED - T.G., J.G.	REVISED - T.G., 03/18	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>I-290 AT CENTRAL TEMPORARY SURVEILLANCE PLANS</b>	F.A. R.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
p:\11\084EBIDINTEG.illinois.gov\PI\DOT\Documents\DOT Offices\District 1\Projects\Electrification\2016\I-290\Central\2016-017L\2016-017L.dwg						SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
Default	PLOT SCALE = 100.0000' / in.	CHECKED - T.G., J.G.	REVISED -			CONTRACT NO. 62C35		ILLINOIS FED. AID PROJECT				

SURV-03



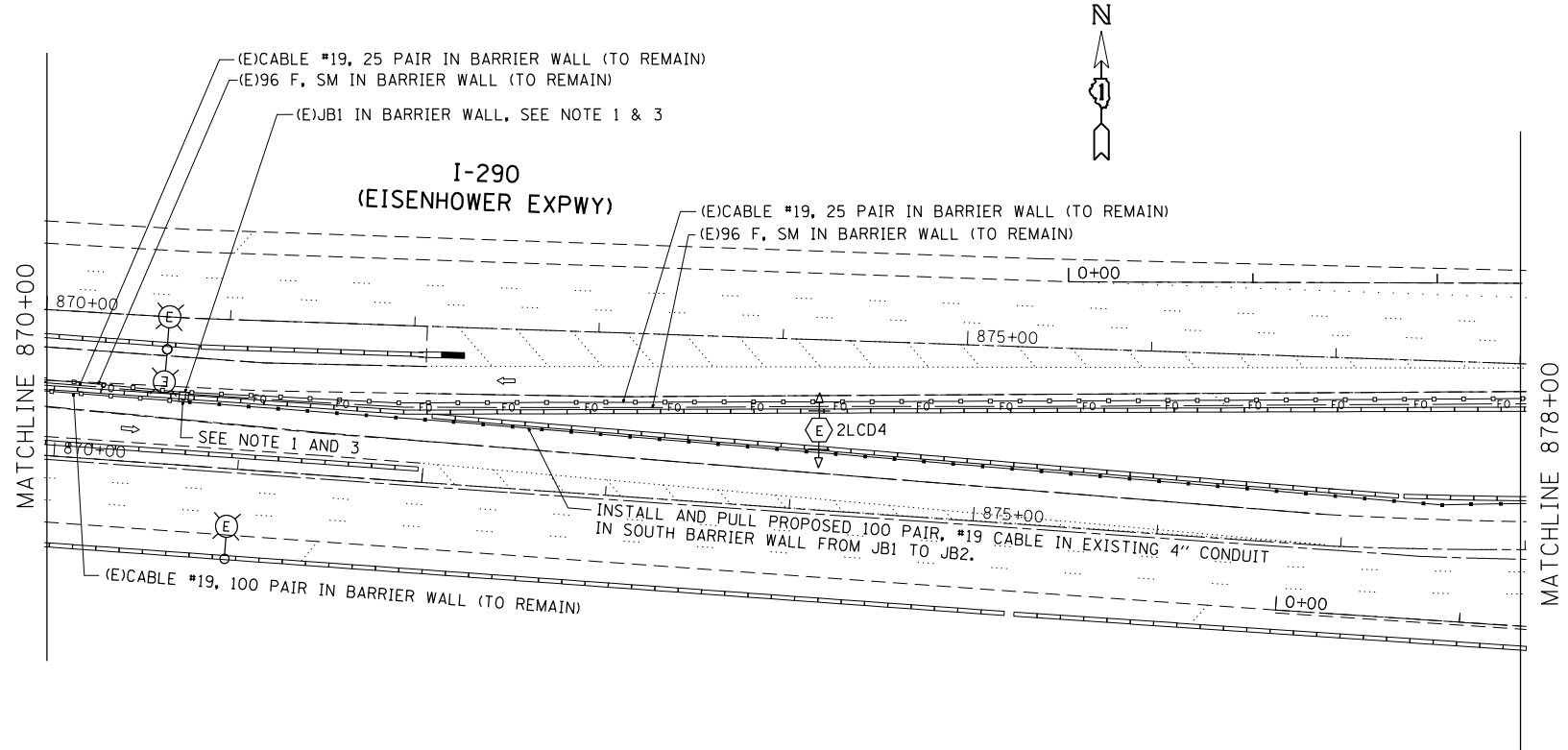
(E) TEMPORARY BARRIER WALL  
 THERE ARE NO CABLES IN NORTH AND SOUTH TEMPORARY BARRIER WALL  
 THE EXISTING CABLES ARE UNDERGROUND WHERE THERE IS TEMP BARRIER WALL  
 SEE NOTE 2

LEGEND	
	EXISTING HIGH MAST LIGHTING TOWER
	EXISTING HIGH MAST LIGHTING TOWER TO BE REMOVED
	PROPOSED HIGH MAST LIGHTING TOWER UNIT
	EXISTING JUNCTION BOX
	EXISTING FIBER OPTIC IN BARRIER WALL
	EXISTING CABLE IN BARRIER WALL
	TEMPORARY 50 PAIR, #19
(E)	EXISTING
(R)	REMOVE
(P)	PROPOSED
	2" RGC ATTACHED ON TOP OF BARRIER WALL

**NOTES:**

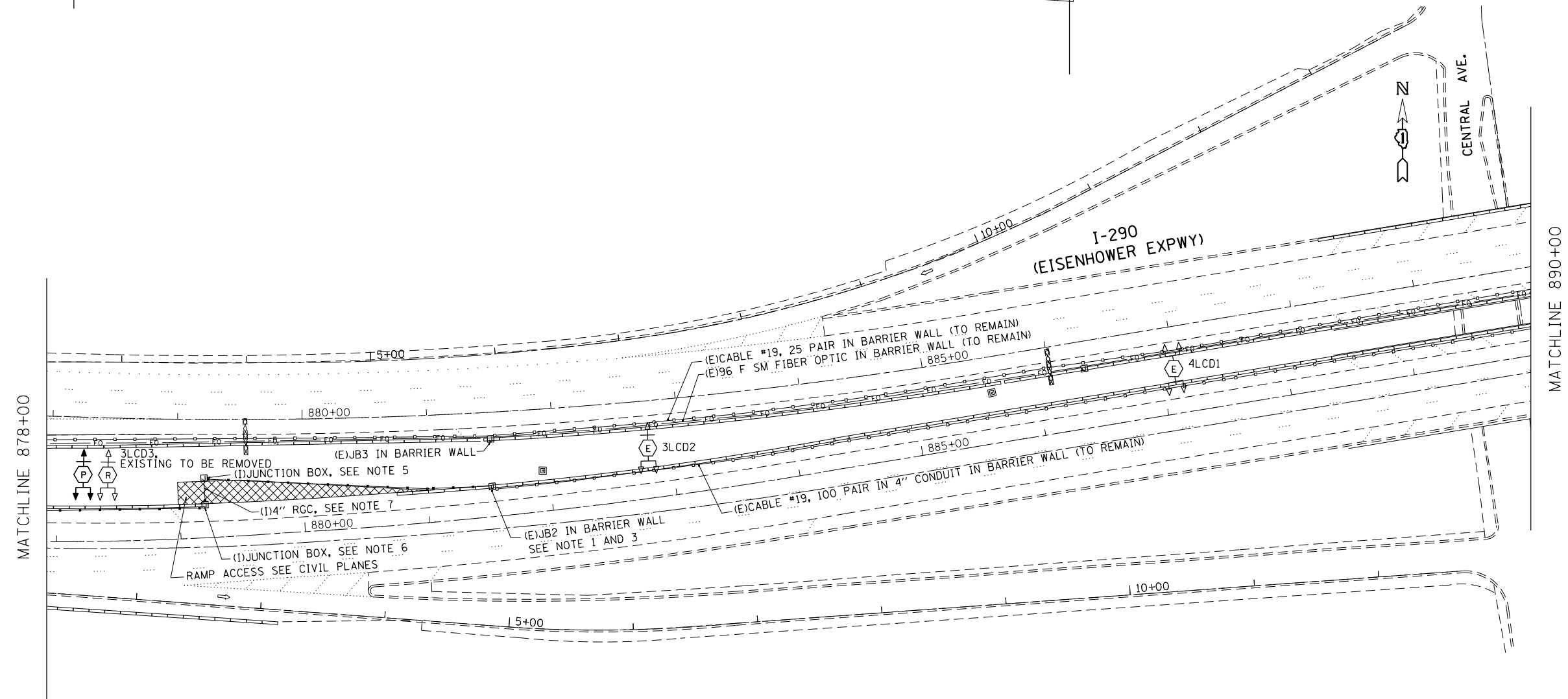
- 1.- THE TEMPORARY ACCESS FOR THE TOWER TO BE REMOVED WILL COME FROM THE SOUTH SIDE. REFER TO THE CIVIL AND LIGHTING PLANS.
- 2.- UNDERGROUND CABLE AS SHOWN IS FOR INFORMATION ONLY. EXACT LOCATIONS WILL BE DETERMINED BY LOCATES. CALL IDOT EMC AT (708)524-2145 FOR LOCATES.
- 3.- CONTRACTOR SHOULD TAKE PROPER MEASURE NOT TO DAMAGE THE IRRIGATION SYSTEM ON I-290 MEDIAN BY TOWER 4LAB2. THE VALVES AND CONTROLS ARE TYPICALLY PLACED BY THE MEDIAN NORTH BARRIER WALL AND FLEXIBLE DRIP PIPES ARE SCATTERED THROUGHOUT THE MEDIAN. NOTIFY CDOT BEFORE START OF WORK.

FILE NAME =	USER NAME = mezag	DESIGNED - T.G., J.G.	REVISED - T.G., 03/18	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>I-290 AT CENTRAL TEMPORARY SURVEILLANCE PLANS</b>				SURV-04	
pw\11084EBIDINTEG\illinois.gov\PI\DOT\Documents\IDOT Offices\District 1\Projects\Electrical\2016\I-290\Central		CHECKED - T.G., J.G.	REVISED -		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Default	PLOT SCALE = 100.0000' / in.	DATE - 08/01/2017	REVISED -		VAR	2016-017L	COOK	88	44	CONTRACT NO. 62C35
				SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
				ILLINOIS FED. AID PROJECT						

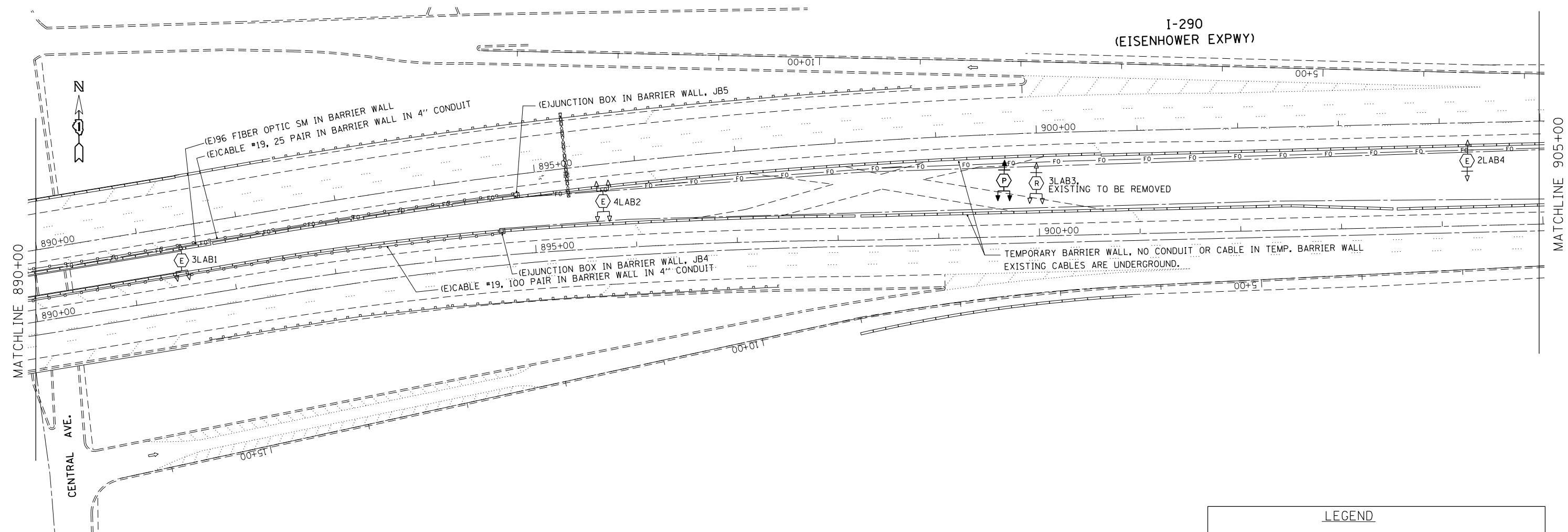


LEGEND	
(E)	EXISTING
(I)	INSTALL
	EXISTING HIGH MAST LIGHTING TOWER
	EXISTING HIGH MAST LIGHTING TOWER TO BE REMOVED
	PROPOSED HIGH MAST LIGHTING TOWER UNIT
	JUNCTION BOX
-FO-	EXISTING FIBER OPTIC IN BARRIER WALL
	EXISTING CABLE IN BARRIER WALL
	PROPOSED CABLE IN BARRIER WALL

- NOTES:
- 1.- SPLICE PROPOSED 100 PAIR, #19 CABLE TO EXISTING 100 PAIR, #19 CABLE IN THIS JUNCTION BOX.
  - 2.- REFER TO LIGHTING PLANS FOR LOCATIONS OF PROPOSED HIGH MAST TOWERS.
  - 3.- RESEAL 2" HOLE IN BARRIER WALL WITH GROUT.
  - 5.- INSTALL JUNCTION BOX STAINLESS STEEL TYPE J (41"x12"x12") EMBEDDED IN CONCRETE BARRIER WALL. INSTALL 4" PVC SCH40 CONDUIT EMBEDDED IN BARRIER WALL.
  - 6.- INSTALL JUNCTION BOX STAINLESS STEEL TYPE J (41"x12"x12") EMBEDDED IN CONCRETE BARRIER WALL. INTERCEPT EXISTING 4" CONDUIT.
  - 7.- INSTALL 4" RGC, 30FT., FROM JUNCTION BOX TO JUNCTION BOX.
  - 8.- CONTRACTOR SHOULD TAKE PROPER MEASURE NOT TO DAMAGE THE IRRIGATION SYSTEM ON I-290 MEDIAN. THE VALVES AND CONTROLS ARE TYPICALLY PLACED BY THE MEDIAN NORTH BARRIER WALL AND FLEXIBLE DRIP PIPES ARE SCATTERED THROUGHOUT THE MEDIAN. NOTIFY CDOT BEFORE START OF WORK.



FILE NAME =	USER NAME = mezag	DESIGNED - T.G., J.G.	REVISED - T.G., 03/18	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>I-290 AT CENTRAL PROPOSED SURVEILLANCE PLANS</b>			F.A. RE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL\084EBIDINTEG\illinois.gov\PIDOT\Documents\DOT Offices\District 1\Projects\Electrification\2016\I-290\Central\2016-017L\2016-017L.dwg	PLOT SCALE = 100.0000' / 1in.	CHECKED - T.G., J.G.	REVISED -		VAR	2016-017L	COOK	88	45			
Default	PLOT DATE = 3/23/2018	DATE - 08/01/2017	REVISED -		CONTRACT NO. 62C35							
								ILLINOIS FED. AID PROJECT				



**NOTES:**

- 1.- THERE IS NO PROPOSED SURVEILLANCE WORK DONE ON THIS SHEET. CABLES ARE NOT AFFECTED SINCE THE CABLES ARE UNDERGROUND NEAR TOWER 3LAB3. THERE ARE NO CONDUITS OR CABLES IN THE TEMPORARY BARRIER WALLS.
- 2.- REFER TO LIGHTING PLANS FOR LOCATIONS OF PROPOSED HIGH MAST TOWER.
- 3.- CONTRACTOR SHOULD TAKE PROPER MEASURE NOT TO DAMAGE THE IRRIGATION SYSTEM ON I-290 MEDIAN BY TOWER 4LAB2. THE VALVES AND CONTROLS ARE TYPICALLY PLACED BY THE MEDIAN NORTH BARRIER WALL AND FLEXIBLE DRIP PIPES ARE SCATTERED THROUGHOUT THE MEDIAN. NOTIFY CDOT BEFORE START OF WORK.

LEGEND	
(E)	EXISTING
(I)	INSTALL
	EXISTING HIGH MAST LIGHTING TOWER
	EXISTING HIGH MAST LIGHTING TOWER TO BE REMOVED
	PROPOSED HIGH MAST LIGHTING TOWER UNIT
	JUNCTION BOX
-FO-	EXISTING FIBER OPTIC IN BARRIER WALL
	EXISTING CABLE IN BARRIER WALL

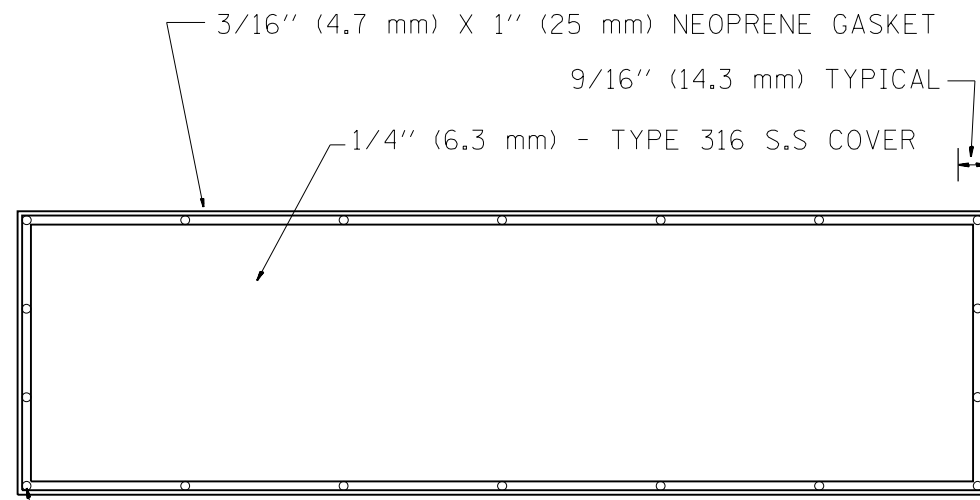
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Default	PLOT SCALE = 100.0000' / in.	DATE - 08/01/2017	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>I-290 AT CENTRAL PROPOSED SURVEILLANCE PLANS</b>			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2016-017L	COOK	88	46
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62C35	

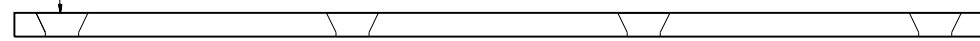
SURV-06



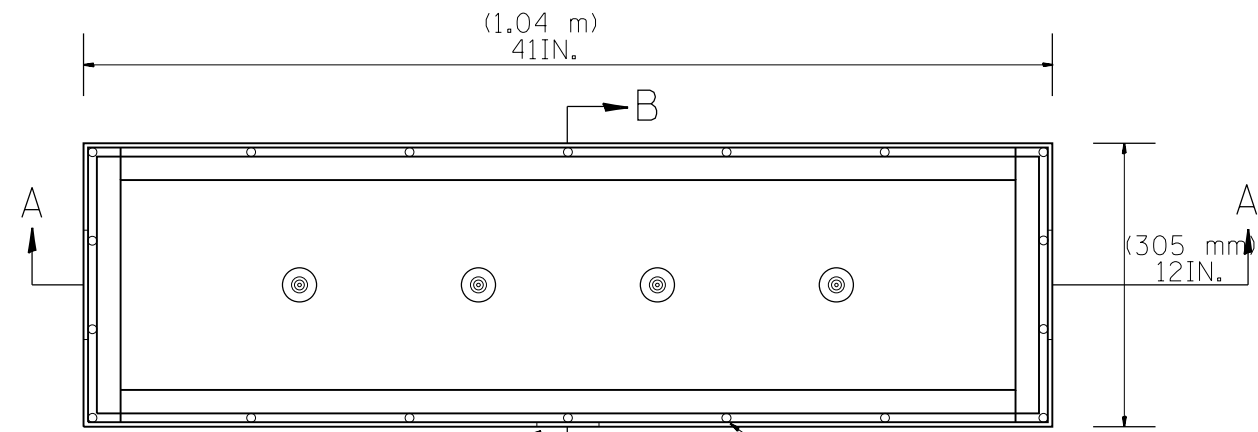
DRILL AND COUNTERSINK TOP OF COVER FOR  
3/8'' (9.5 mm) 16 X 3/4'' (19 mm)  
FLAT HEAD STAINLESS STEEL SLOTTED SCREWS

BACK VIEW

STAINLESS STEEL COVER WITH NEOPRENE GASKET



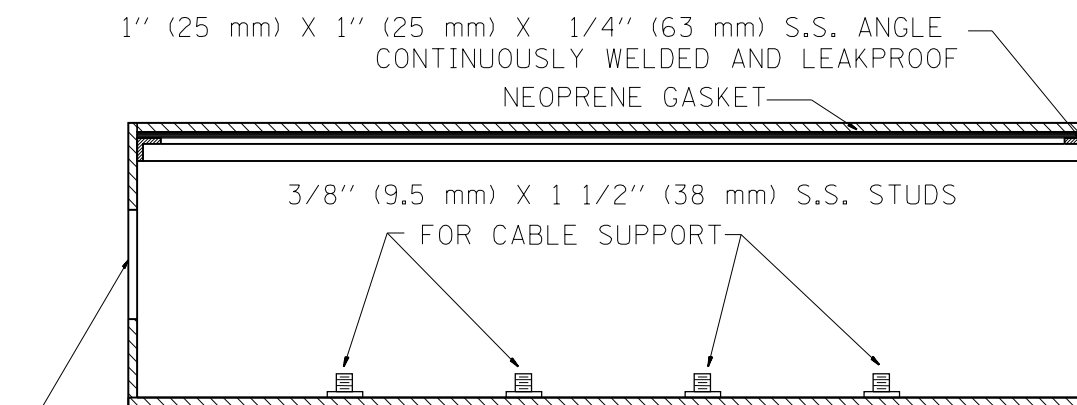
SIDE VIEW  
STAINLESS STEEL COVER



2.625IN. (67 mm) DIA. FOR 2IN. (50.0 mm) GS-CONDUIT  
3/8 IN. (9.5 mm)-16 TAP

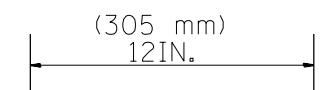
TOP VIEW

STAINLESS STEEL JUNCTION BOX TYPE "J"



4.625'' (117 mm) DIA.  
FOR 4'' (100 mm) PVC DUCT

SIDE VIEW SECTION A-A



4.625'' (117 mm) DIA.  
FOR 4'' (100 mm) PVC DUCT  
WELDED SEAMS (TYP.)  
2.625IN. (67 mm) DIA. HOLE

SIDE VIEW SECTION B-B

NOTE:

JUNCTION BOX TO BE CONSTRUCTED OF  
1/4 IN. (6.3 mm) TYPE 316 STAINLESS STEEL  
ALL WELDS SHALL BE CONTINUOUS AND LEAKPROOF  
ALL COVERS SHALL BE UNIVERSAL IN FIT.

BARRIER WALL SHALL BE GAPPED A MINIMUM OF 15FT. (4.57 m) FOR PROPER PLACEMENT OF JUNCTION BOX TYPE "J" AND FOR A SMOOTH TRANSITION OF 4IN. (100 mm) PVC SURVEILLANCE DUCT(S) FROM BARRIER WALL FOOTER INTO JUNCTION BOX.

FILE NAME =	USER NAME = mezag	DESIGNED - R.L.	REVISED - 06/94
pw:\IL\084EBIDINTEG\illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\Traffic Systems Center\CMDData\Electrical\Typical\REVISED\TY.dgn 10/96		DRAWN - R.L.	REVISED -
Default	PLOT SCALE = 100.0000' / in.	CHECKED - R.L.	REVISED -
	PLOT DATE = 8/1/2017	DATE - 06/22/94	REVISED -

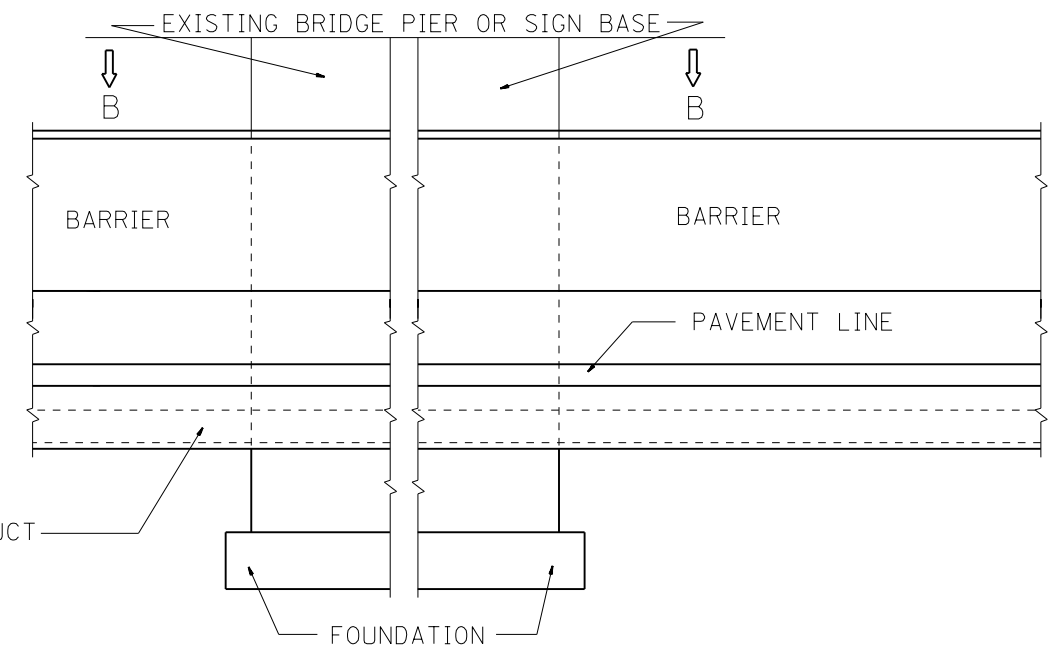
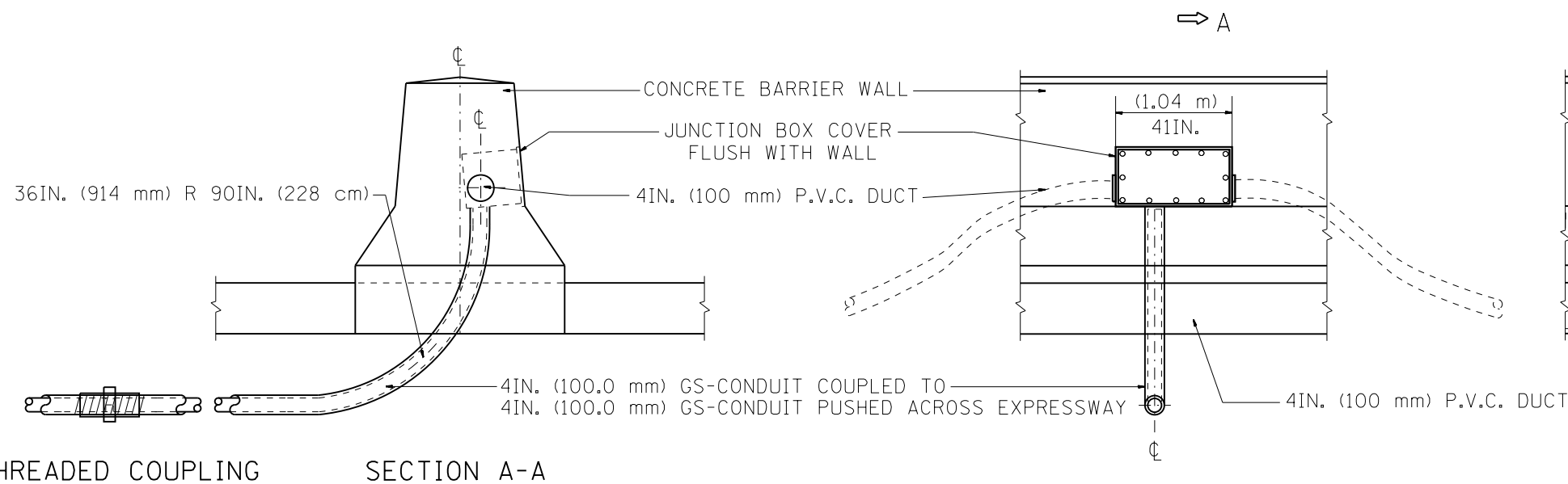
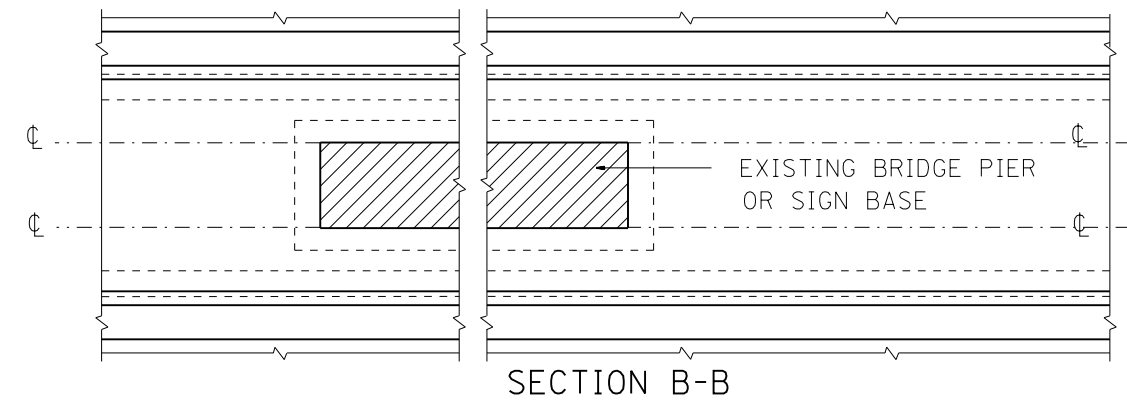
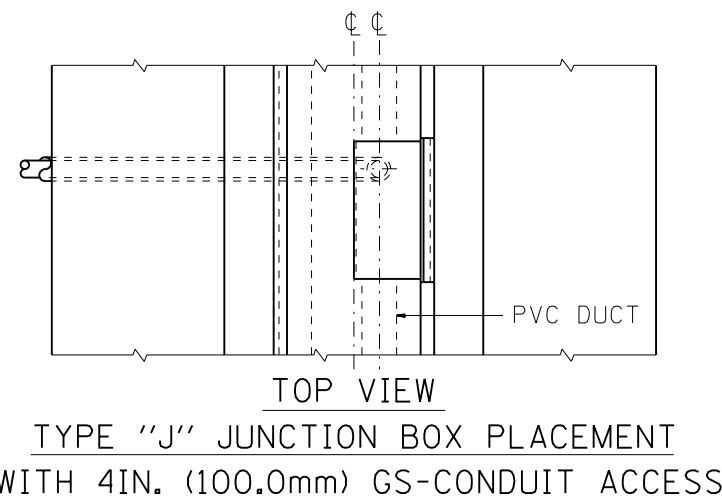
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**  
TRAFFIC SYSTEMS CENTER

SCALE: NONE	SHEET	OF	SHEETS	STA.	TO	STA.
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CONCRETE  
BARRIER WALL JUNCTION BOX  
TYPE "J"

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2016-017L	COOK	88	47
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 62C35	

SURV-07



THREADED COUPLING

SECTION A-A

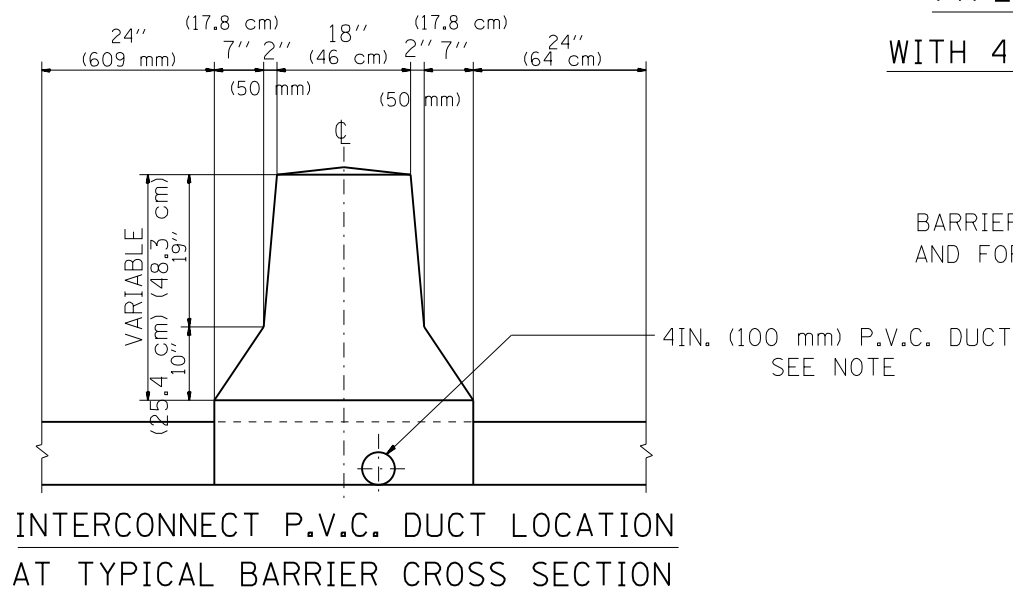
FRONT VIEW

(SEE NOTE NO. 1)

TYPE "J" JUNCTION BOX PLACEMENT  
WITH 4IN. (100.0 mm) GS-CONDUIT ACCESS

FRONT VIEW

BARRIER WALL AT BRIDGE PIER  
P.V.C. DUCT PLACEMENT



NOTE:

LOCATION OF PVC CONDUITS TO BE VERIFIED IN THE FIELD TO MATCH WITH EXISTING BARRIER WALL CONDUITS.

FILE NAME =	USER NAME = mezag	DESIGNED - R.L.	REVISED - 06/94
pw:\IL\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 1\Projects\Traffic Systems Center\CDData\Electrical\Typical\REVISED\YP.dgn		CHECKED - R.L.	REVISED - 08/17
Default	PLOT SCALE = 100.0000' / in.	DATE - 06/22/94	REVISED -
	PLOT DATE = 8/1/2017		

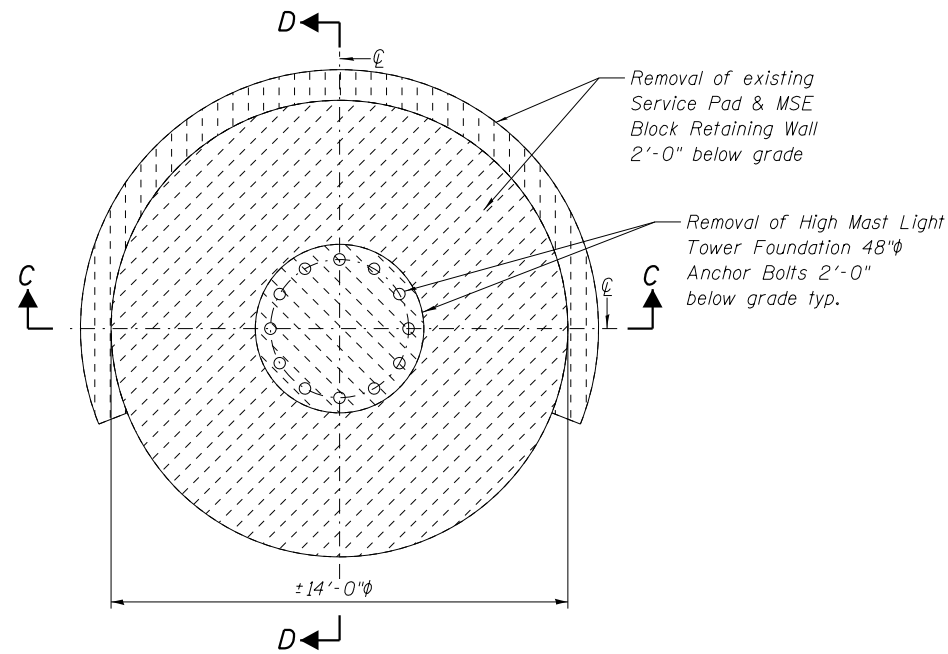
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
TRAFFIC SYSTEMS CENTER

TYPE "J" JUNCTION BOX & P.V.C. DUCT PLACEMENT			
SCALE: NONE	SHEET	OF SHEETS	STA. TO STA.

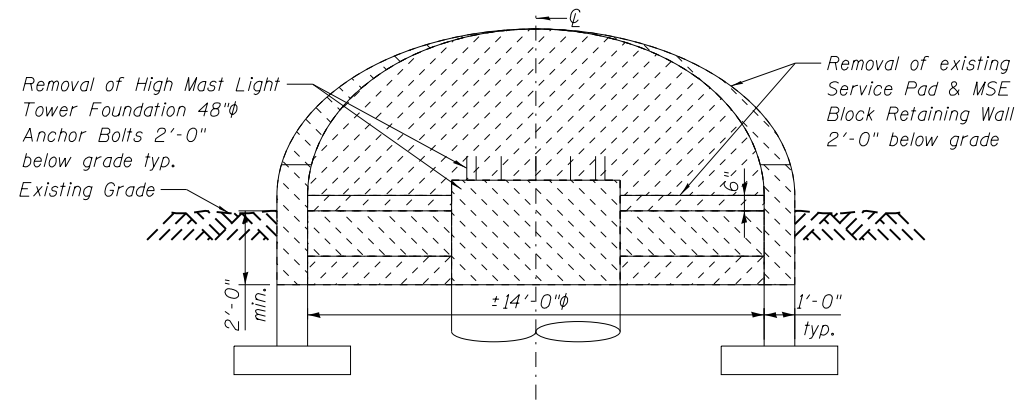
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2016-017L	COOK	88	48
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 62C35	

TRAFFIC SYSTEMS CENTER (TY-1TSC-663#2B)

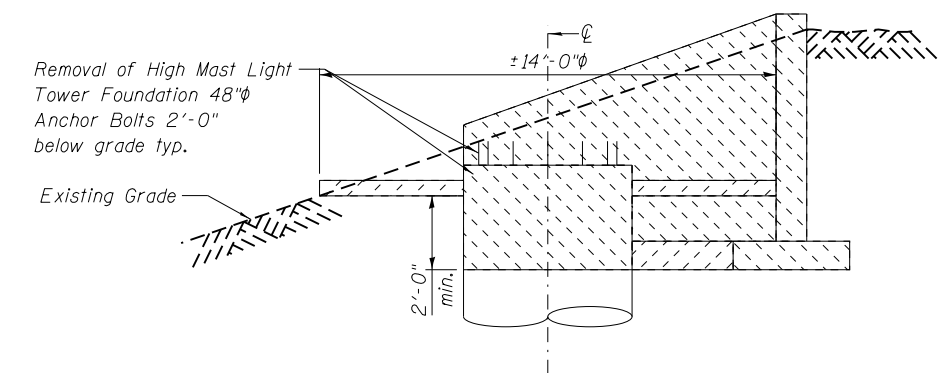




LIGHT TOWER SERVICE PAD & RETAINING WALL  
REMOVAL PLAN



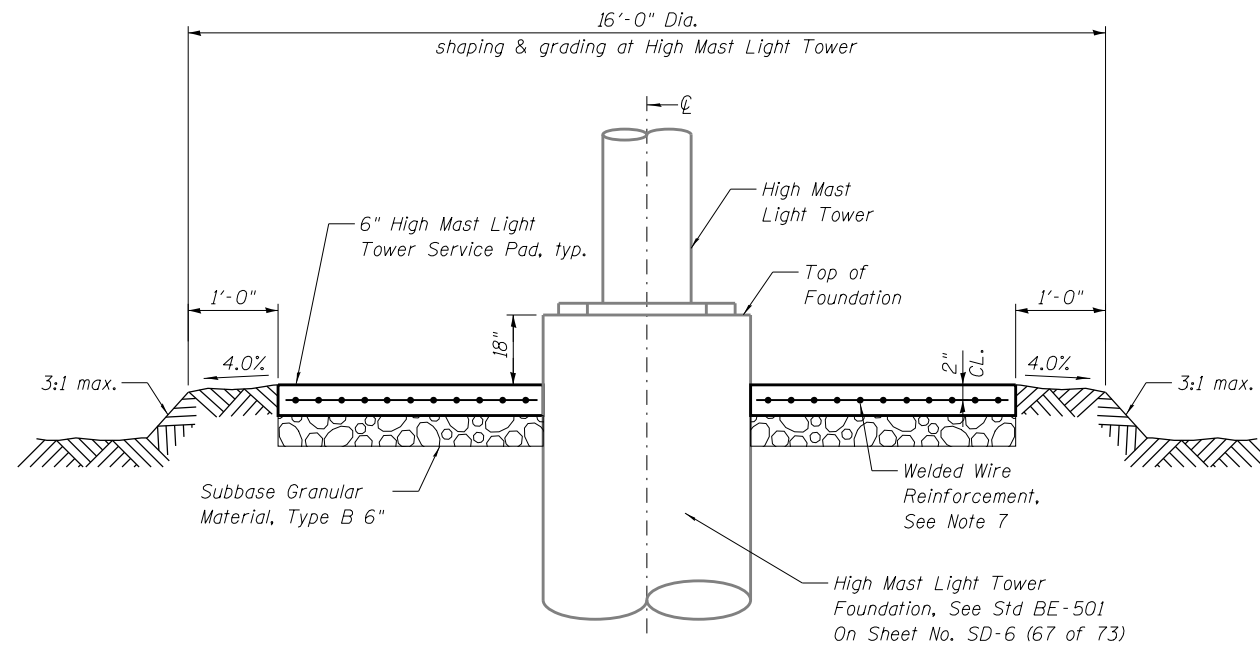
LIGHT TOWER, FOUNDATION  
REMOVAL SECTION C-C



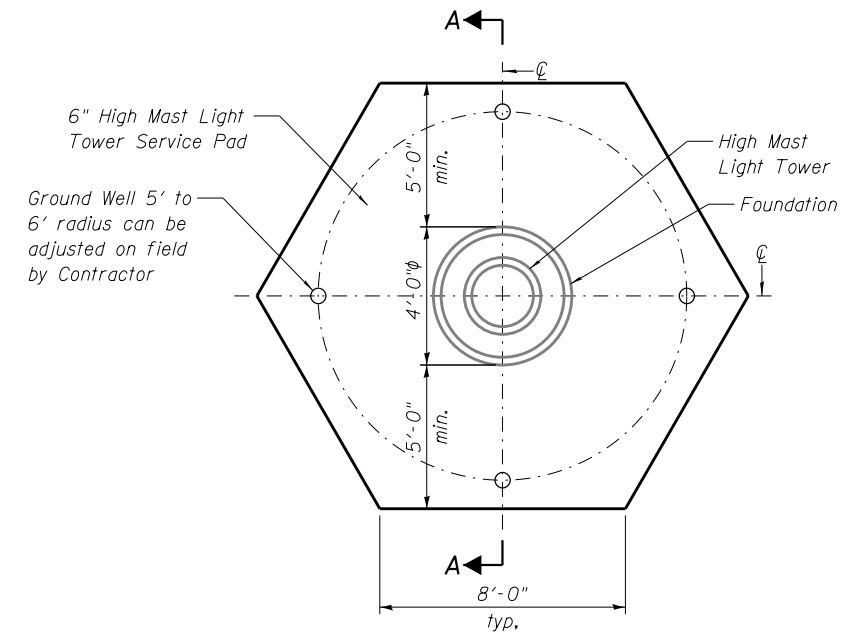
LIGHT TOWER, FOUNDATION  
REMOVAL SECTION D-D

SERVICE PAD & RETAINING WALL REMOVAL  
LOCATION TABLE

Light Tower No.	Location Highway / Roadway
3MACD1	U.S. 14 / IL. 31
3MAEF2	U.S. 14 / IL. 31



**FILL GRADING DETAIL  
SECTION A-A**



**LIGHT TOWER,  
SERVICE PAD PLAN**

**NOTES:**

1. For location of Light Pole Foundations, see Lighting Plans.
2. The Light Tower & Light Tower Foundation shall be paid for separately.
3. For Light Tower hand hole orientation, see Lighting Plans.
4. f'c for Concrete shall be 3,500 psi @ 28 days.  
fy for Welded Wire Reinforcement shall be 65,000 psi.
5. Min. 3,000 psf Soil Bearing Capacity is required below the foundation & pad.
6. Bill of Material quantity shown is for one Service Pad.
7. Welded Wire Reinforcement shall have minimum area of 0.31 in<sup>2</sup> in each direction.

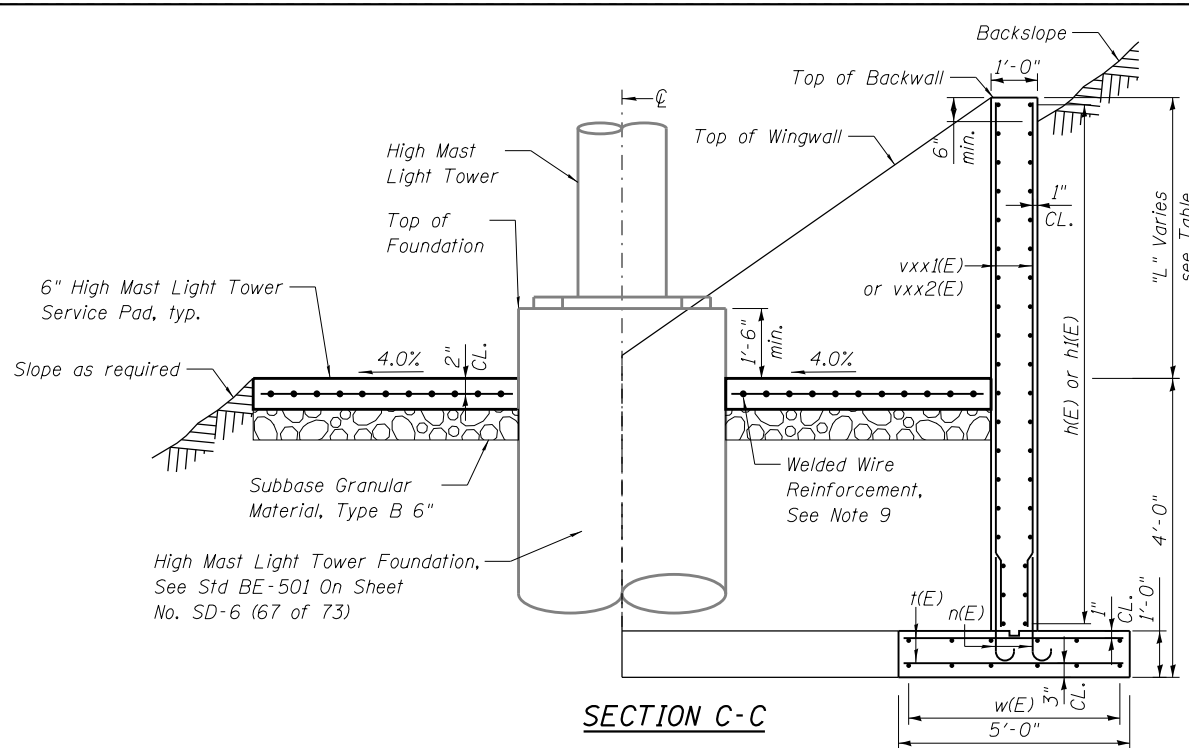
**HIGH MAST LIGHT TOWER LOCATION**

Light Tower No.	County	Location		Highway / Roadway	Pad Type	*Pad Elevation
		Station	Offset			
3LCD3	Cook	See note 1	See note 1	I-290 / Central	Light Tower Service Pad	**
3LAB3	Cook	See note 1	See note 1	I-290 / Central	Light Tower Service Pad	**

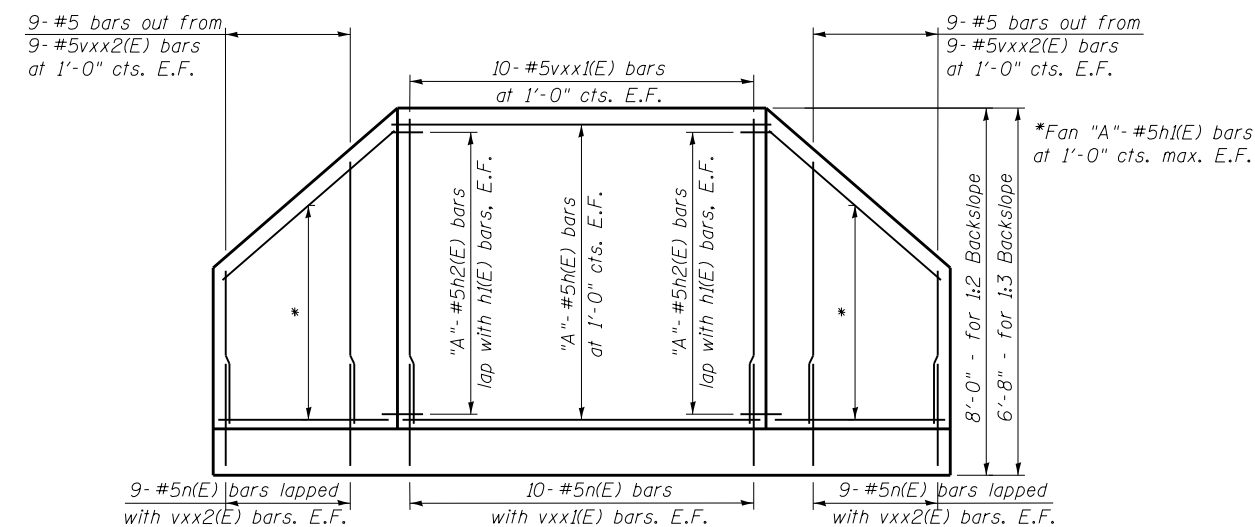
\*Pad Elevations must be verified prior to Construction  
\*\*Pad Elevations match with top of existing pad

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	Quantity
Welded Wire Reinforcement	Sq. Yd.	19
Structure Excavation	Cu. Yd.	13
Concrete Structure	Cu. Yd.	3
Protective Coat	Sq. Yd.	18
Subbase Granular Material, Type B 6"	Sq. Yd.	18



SECTION C-C



INSIDE ELEVATION OF WINGWALLS & BACKWALL

NOTES:

- For location of Light Pole Foundations, see Lighting Plans.
- The Light Tower & Light Tower Foundation shall be paid for separately.
- For Light Tower hand hole orientation, see Lighting Plans.
- Reinforcement Bars designated (E) shall be epoxy coated.
- "x" designation in bars marks represent varying backslopes conditions
- Cut vxx2(E) bars in field to fill front face of wingwalls and use remainder in the back face of the wingwalls.
- Min. 3,000 psf Soil Bearing capacity is required below the foundation and pad.
- f'c for concrete shall be 3,500 psi @ 28 days. fy for Welded Wire Reinforcement shall be 65,000 psi.
- Welded Wire Reinforcement shall have minimum area of 0.31 in<sup>2</sup>/ft in each direction.

TABLE WALL STEM HEIGHT

Light Tower No.	Backslope	"L"
3MACD1	1:2	4'-0"
3MAEF2	1:3	2'-8"

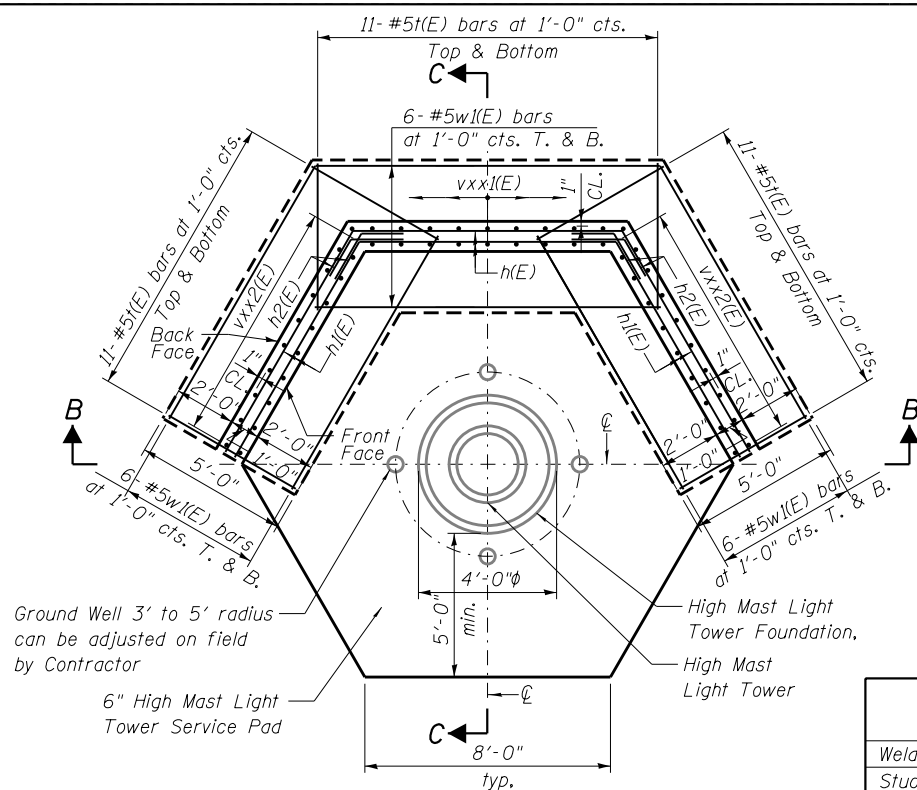
TABLE BAR CUTTING DIAGRAM

Backslope	"C"
1:2	6'-6"
1:3	5'-4"

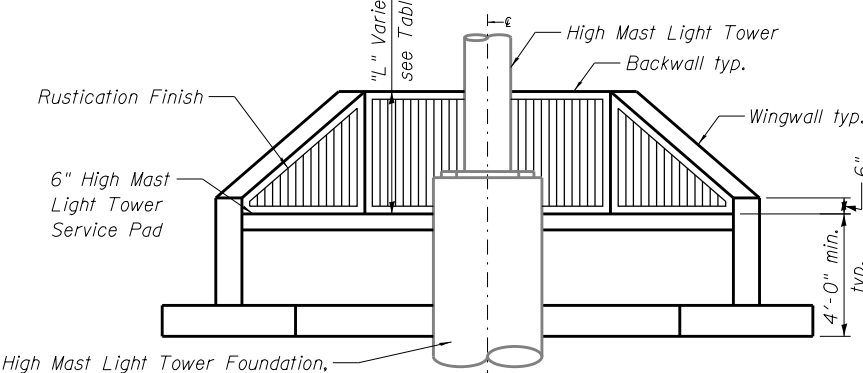
HIGH MAST LIGHT TOWER LOCATION

Light Tower No.	County	Location		Highway / Roadway	Pad Type	*Pad Elevation
		Station	Offset			
3MACD1	McHenry	See note 1	See note 1	U.S. 14 / IL. 31	Light Tower Service Pad & Retaining Wall	**
3MAEF2	McHenry	See note 1	See note 1	U.S. 14 / IL. 31	Light Tower Service Pad & Retaining Wall	**

\*Pad Elevations must be verified prior to Construction  
\*\*Pad Elevations match with top of existing pad

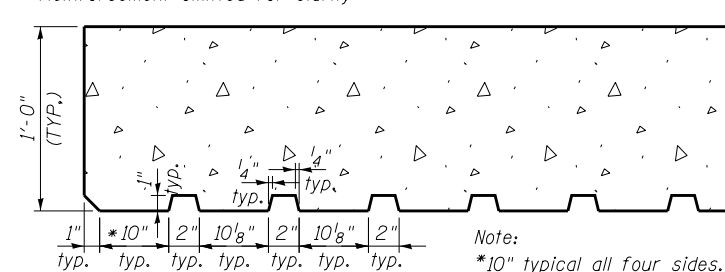


LIGHT TOWER SERVICE PAD PLAN

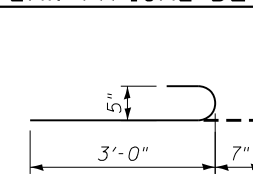


SECTION B-B

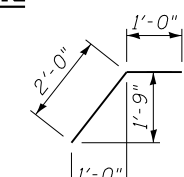
Reinforcement omitted for clarity



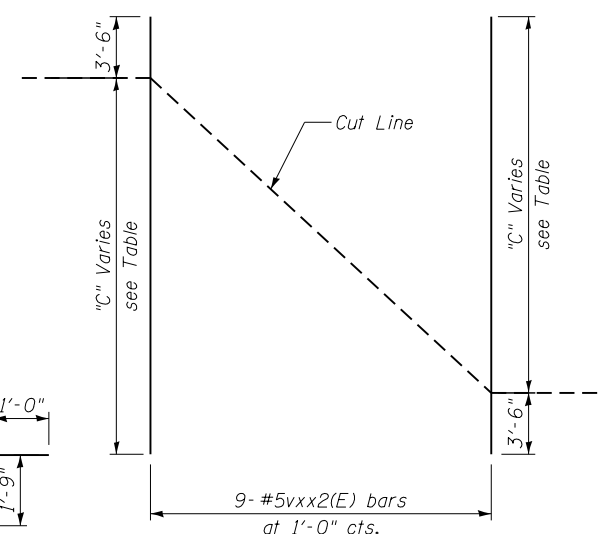
RUSTICATION PARTIAL PLAN TYPICAL DETAIL



BAR n(E)



BAR h2(E)



BARS vxx2(E) BAR CUTTING DIAGRAM

LEGEND:

E.F. = Each Face  
F.F. = Front Face  
B.F. = Back Face

MIN. BAR LAP:

#5 bars - 2'-0"

h(E) BAR QUANTITY TABLE

Backslope	"A"
1:2	8
1:3	7

BILL OF MATERIAL QUANTITIES SHOWN FOR ONE WALL

Bar	No.	Size	Length	Shape
n(E)	56	#5	3'-7"	—
h(E)	66	#5	4'-8"	—
w(E)	12	#5	11'-1"	—
w(E)	24	#5	9'-4"	—

For Backslope 1:2

h(E)	16	#5	8'-11"	—
h1(E)	32	#5	8'-2"	—
h2(E)	32	#5	3'-0"	—
v12(E)	20	#5	6'-8"	—
v122(E)	18	#5	10'-0"	—

For Backslope 1:3

h(E)	14	#5	8'-11"	—
h1(E)	28	#5	8'-2"	—
h2(E)	28	#5	3'-0"	—
v13(E)	20	#5	5'-4"	—
v132(E)	18	#5	8'-10"	—

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL	
		3MACD1 1:2	3MAEF2 1:3
Welded Wire Reinforcement	Sq. Yd.	19	19
Structure Excavation	Cu. Yd.	52	51
Concrete Structure	Cu. Yd.	15	14
Reinforcement Bars, Epoxy Coated	Pound	1,839	1,718
*Rustication Finish	Sq. Ft.	18	18
Protective Coat	Sq. Yd.	27	27
Subbase Granular Material, Type B 6"	Sq. Yd.	18	18

\*Quantity for Rustication Finish is for information only  
Cost included in Concrete Structure pay item.

ILLINOIS DEPARTMENT OF TRANSPORTATION		SOIL BORING LOG					Page 1 Of 1						
ROUTE _____ DESCRIPTION <b>High Mast Light Towers</b>		LOCATION <b>Interstate I-290 &amp; I-55, Cook County, IL (Var. Loc.) SW 1/4 SEC 16 TWP 39N R13E PM 3rd</b>					Date <b>3/17/16</b>						
SECTION _____		COUNTY <b>Cook</b>					Logged By <b>VM</b>						
STRUCTURE NO. <b>3LAB3 (Exist.)</b>		Drilling Method <b>AASHTO T 206-09</b>					Hammer Type <b>Automatic Hammer</b>						
Boring No. <b>B-1</b>	Station _____	Surf. Wat. El. _____	E	D	S	U	M	Surf. Wat. El. _____	E	D	S	U	M
Offset <b>30 Ft South</b>	Ground Surface El. <b>+616.54+- M.S.L.</b>	When Drilling <b>608.54 M.S.L.</b>	L	P	P	C	O	When Drilling _____	L	P	P	C	O
		at Completion <b>611.04 M.S.L.</b>	V.	T	N	Qu	S	at Completion _____	V.	T	N	Qu	S
		After _____ Hrs _____	(M.S.L.)	(ft.)	(blows)	(TSF)	(%)		(M.S.L.)	(ft.)	(blows)	(TSF)	(%)
11" PORTLAND CEMENT CONCRETE PAVEMENT	615.6	1.0						26.0					
FILL: SAND AND GRAVEL, Brown, Medium Dense, Dry (A-1-b)	2.0	5				5.8		27.0	14			11.8	
	3.0	6						28.0	16				
	4.0	6						29.0	17				
FILL: CLAY, Dark Brown, Medium Stiff, Moist (A-6)	612.0	4				7.3		30.0	10			11.2	
	5.0	6			0.75 P	19.0		31.0	15				
	6.0	3						32.0	23				
FILL: SAND AND GRAVEL, Brown, Trace Gravel, Loose, Dry (A-1-b)	609.5	2			0.75 P	15.8		33.0					
(Saturated below 8 feet depth.)	608.0	3				5.9		34.0	19				
FILL: CLAY, Dark Gray, Very Soft, Wet (A-7-5)	9.0	1			0.12 B	34.8		35.0	23			10.3	
	10.0	1						36.0	28				
FILL: CLAY, Brown and Gray, Very Soft, Moist (A-6)	605.5	1			0.18 B	18.1		37.0					
	12.0	1						38.0					
	13.0	1						39.0	18				
CLAY, Gray, Very Stiff to Hard, Moist (A-6)	603.0	4			2.92 B/S	17.0		40.0	24			11.5	
	14.0	6						41.0	30				
	15.0	7						42.0					
	16.0	3						43.0					
	17.0	5			4.00 S	16.9		44.0					
	18.0	6						45.0					
	19.0	4			4.42 S	19.9		46.0					
	20.0	8						47.0					
	21.0	8						48.0					
SILT, Gray, Dense to Very Dense, Moist (A-4)	595.5	12				15.0		49.0					
	22.0	16						50.0					
	23.0	21											
	24.0	15											
	25.0	18											
		23											

N=Standard Penetration Test-Blows per six inches to drive 2" O.D. (QU)B=Bulge S=Shear P=Penetrometer Test  
 Split Spoon Sampler 24" with 140lb hammer falling 30" D-50 drill rig used.  
 4.25" Diameter Hollow Stem Augers used between Split Spoon Sample intervals unless noted otherwise.

SEECO Job No. 10612G-6

ILLINOIS DEPARTMENT OF TRANSPORTATION		SOIL BORING LOG					Page 1 Of 1						
ROUTE _____ DESCRIPTION <b>High Mast Light Towers</b>		LOCATION <b>Interstate I-290 &amp; I-55, Cook County, IL (Var. Loc.) SE 1/4 SEC 17 TWP 39N R13E PM 3rd</b>					Date <b>3/17/16</b>						
SECTION _____		COUNTY <b>Cook</b>					Logged By <b>VM</b>						
STRUCTURE NO. <b>3LCD3 (Exist.)</b>		Drilling Method <b>AASHTO T 206-09</b>					Hammer Type <b>Automatic Hammer</b>						
Boring No. <b>B-2</b>	Station _____	Surf. Wat. El. _____	E	D	S	U	M	Surf. Wat. El. _____	E	D	S	U	M
Offset <b>30 Ft South</b>	Ground Surface El. <b>+611.70+- M.S.L.</b>	When Drilling _____	L	P	P	C	O	When Drilling _____	L	P	P	C	O
		at Completion _____	V.	T	N	Qu	S	at Completion _____	V.	T	N	Qu	S
		After _____ Hrs _____	(M.S.L.)	(ft.)	(blows)	(TSF)	(%)		(M.S.L.)	(ft.)	(blows)	(TSF)	(%)
9" PORTLAND CEMENT CONCRETE PAVEMENT	610.9	1.0						26.0					
FILL: CLAY, Black, Contains Pieces of Brick and Clay Pipe, Very Stiff, Moist (A-6)	2.0	5				15		27.0	14			14.2	
	3.0	9			2.44 B/S	31.6		28.0	21				
	4.0	14						29.0	25				
FILL: CLAY, Black and Dark Brown, Very Stiff, Moist (A-6)	608.2	6			2.92 B/S	21.7		30.0	24			13.3	
	5.0	7						31.0	29				
	6.0	10						32.0	35				
	7.0	5						33.0					
	8.0	4			1.50 P	24.5		34.0	4				
	9.0	5						35.0	6				
CLAY, Brown and Gray, Hard to Very Stiff to Stiff, Moist (A-6)	603.2	4			4.75 S	14.7		36.0	8				
	10.0	6						37.0	9				
	11.0	9						38.0	8				
	12.0	8			4.81 S	15.7		39.0	6				
	13.0	9						40.0	5				
	14.0	6						41.0	6				
	15.0	10			3.25 B/S	13.4		42.0	8				
	16.0	5						43.0	8				
	17.0	8			3.88 B/S	18.2		44.0	7				
	18.0	8						45.0	15				
	19.0	7				14.7		46.0	16				
SILT, Gray, Dense to Very Dense to Dense to Very Dense, Moist (A-4)	593.2	15						47.0	19				
	20.0	16						48.0	24			14.4	
	21.0	19						49.0	26				
	22.0	24						50.0	13				
	23.0	26							19				
	24.0	13							23				
	25.0	23											

N=Standard Penetration Test-Blows per six inches to drive 2" O.D. (QU)B=Bulge S=Shear P=Penetrometer Test  
 Split Spoon Sampler 24" with 140lb hammer falling 30" D-50 drill rig used.  
 4.25" Diameter Hollow Stem Augers used between Split Spoon Sample intervals unless noted otherwise.

SEECO Job No. 10612G-6



USER NAME = *USER*	DESIGNED - HM	REVISED -
PLOT SCALE = *SCALE*	DRAWN - GJ	REVISED -
PLOT DATE = *DATE*	CHECKED - HS	REVISED -
	DATE - 03-21-2017	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS

SCALE: NONE SHEET 8 OF 9 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2016-017L		88	52
CONTRACT NO. 62C35				
ILLINOIS FED. AID PROJECT				

SBL-1

**BLANK SHEET**

**SBL-2**



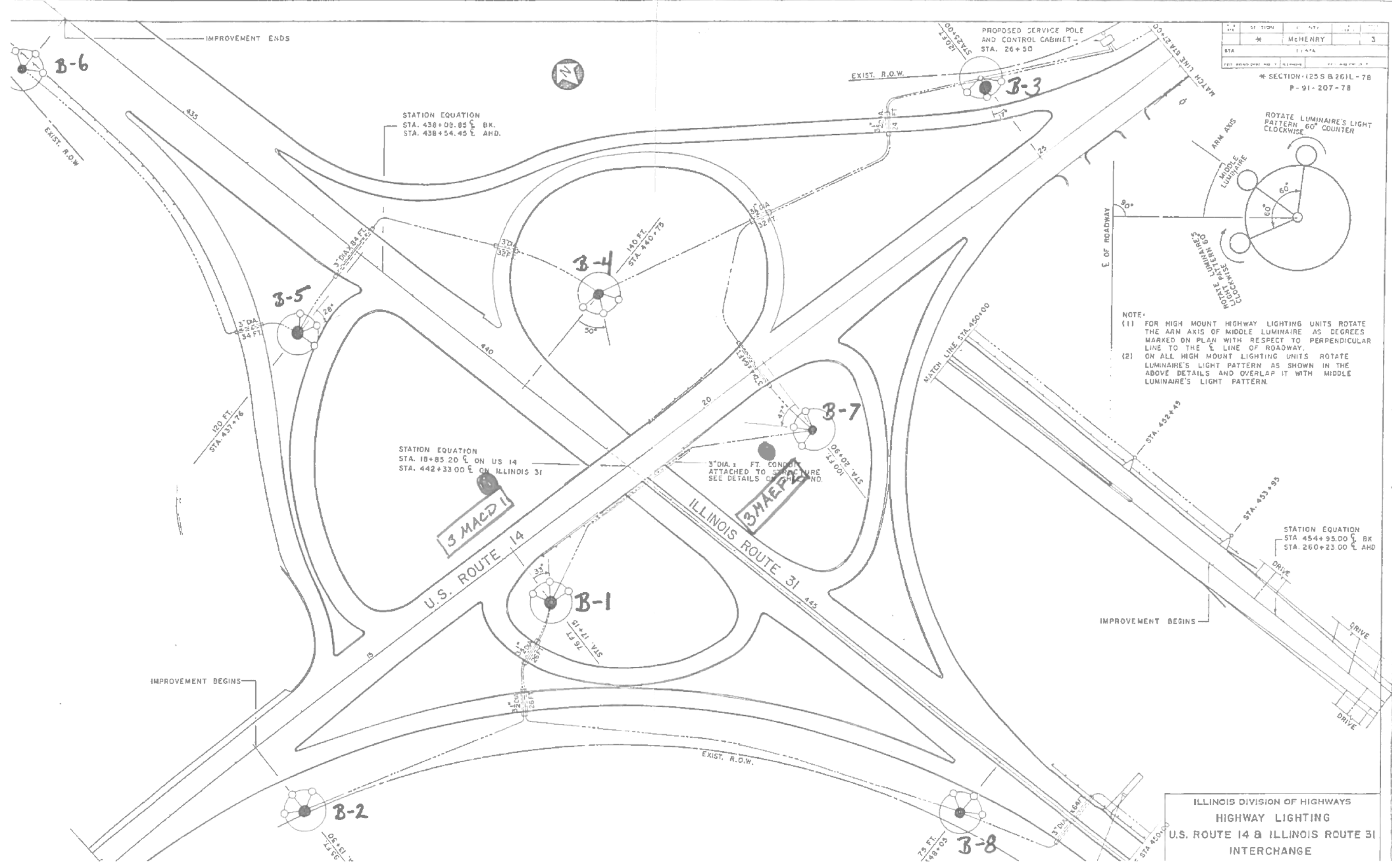
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	DRAWN - GJ	REVISED -
PLOT SCALE = *SCALE*	CHECKED - HS	REVISED -
PLOT DATE = *DATE*	DATE - 03-21-2017	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

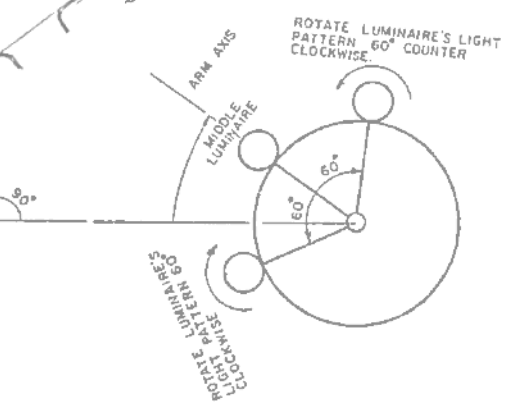
**SOIL BORING LOGS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2016-017L		88	53
			<b>CONTRACT NO. 62C35</b>	
ILLINOIS FED. AID PROJECT				



STATION	1	2	3
DATE	11/17/17		
PROJECT	* SECTION 125 S B 261L - 78		
CONTRACT	P-91-207-78		



NOTE:  
 (1) FOR HIGH MOUNT HIGHWAY LIGHTING UNITS ROTATE THE ARM AXIS OF MIDDLE LUMINAIRE AS DEGREES MARKED ON PLAN WITH RESPECT TO PERPENDICULAR LINE TO THE E. OF ROADWAY.  
 (2) ON ALL HIGH MOUNT LIGHTING UNITS ROTATE LUMINAIRE'S LIGHT PATTERN AS SHOWN IN THE ABOVE DETAILS AND OVERLAP IT WITH MIDDLE LUMINAIRE'S LIGHT PATTERN.

ILLINOIS DIVISION OF HIGHWAYS  
 HIGHWAY LIGHTING  
 U.S. ROUTE 14 & ILLINOIS ROUTE 31  
 INTERCHANGE



USER NAME = *USER*	DESIGNED - HM	REVISED -
	DRAWN - GJ	REVISED -
PLOT SCALE = *SCALE*	CHECKED - HS	REVISED -
PLOT DATE = *DATE*	DATE - 03-21-2017	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

US-14 /IL-31 SOIL BORING LOCATIONS			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2016-017L		88	54
			CONTRACT NO. 62C35	
ILLINOIS FED. AID PROJECT				

SBL-3



Bridge Foundation Boring Log

P-91-207-78 Sh. 1 of 1 Sh.  
 PROJECT BRIDGE High-Mast Lighting Date 10-31-78  
 ROUTE IL Rte. #31 & #14 Bored By D. GROW  
 SEC. (25S & 26) L-78 STA. Checked By

COUNTY <u>Mc Henry</u>		Surface Water El.		Groundwater El. at Completion		Groundwater El. After 24 Hours	
Elevation	N	Qu t/s.f.	w (%)	Elevation	N	Qu t/s.f.	w (%)
Boring No. #1 Station 17+15 Offset 76' Rte #14(S)							
Ground Surface	916.8	0					
MEDIUM, YELLOW-BROWN SANDY LOAM & GRAVEL							
	8						
	11			-25			
	9						
	911.8	-5					
	9						
DENSE, YELLOW-BROWN SANDY LOAM & GRAVEL	20		7				
	25						
	12			-30			
	21						
	23		7				
	906.3	-10					
	12						
MEDIUM, BROWN SAND (Medium Grained)	9						
	17						
	25			-35			
VERY DENSE, BROWN SANDY LOAM & GRAVEL	25						
	33		7				
	901.8	-15					
	14						
DENSE, BROWN SAND & GRAVEL	18						
	18		6				
	899.8						
VERY DENSE, BROWN SAND & GRAVEL - Some black limestone gravel.	33						
	33			-40			
	32		4				
	897.3	-20					
	29						
End of Boring							
				-45			

N-Standard Penetration Test - Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with 140 No. hammer falling 30".  
 Qu-Unconfined Compressive Strength - t/sf  
 w - Water Content - percentage of oven dry weight-%.  
 Type failure:  
 B - Bulge Failure  
 S - Shear Failure  
 E - Estimated Value  
 P - Penetrometer



Bridge Foundation Boring Log

P-91-207-78 Sh. 1 of 1 Sh.  
 PROJECT BRIDGE High Mast Lighting Date 10-31-78  
 ROUTE IL Rte. 31 & Rte. 14 Bored By D. GROW  
 SEC. (25S-26) L-78 STA. Checked By

COUNTY <u>Mc Henry</u>		Surface Water El.		Groundwater El. at Completion		Groundwater El. After 24 Hours	
Elevation	N	Qu t/s.f.	w (%)	Elevation	N	Qu t/s.f.	w (%)
Boring No. #2 Station 13+30 Offset 95' Rte #14							
Ground Surface	922.7	0					
LOOSE, BROWN SANDY LOAM & GRAVEL - with 18 inch boulders (Augered up 3 foot piece of 3/4" wire rope (Fill Material							
	3						
	3			-25			
	3						
	3						
	917.7	-5					
	3						
LOOSE, DARK BROWN SANDY LOAM	3						
	5		14				
	915.7						
STIFF, BROWN SILTY CLAY LOAM	3						
	3	S(20%)					
	4	1.05	27				
	-10						
	3						
	4	S/B					
	5	1.12	27				
	910.7						
MEDIUM, BROWN SILTY LOAM	2		B				
	4		.70				
	10		26				
	909.2						
MEDIUM, Yellow-Brown SAND (Medium-grained - Very Clean)	-15						
	9						
	13						
	13		6				
	7						
	14			-40			
	15		9				
	-20						
	8						
	14						
	14		5				
	-45						

N-Standard Penetration Test - Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with 140 No. hammer falling 30".  
 Qu-Unconfined Compressive Strength - t/sf  
 w - Water Content - percentage of oven dry weight-%.  
 Type failure:  
 B - Bulge Failure  
 S - Shear Failure  
 E - Estimated Value  
 P - Penetrometer



Bridge Foundation Boring Log

Sh. 1 of 1 Sh.

P-91-207-78 PROJECT BRIDGE High Mast Lighting Date 11-01-78

ROUTE IL Rte. 31 & Rte. 14 Bored By D. GROW

SEC. (25S-26) L-78 STA. Checked By

COUNTY Mc Henry

Boring No. #3 Station 25+00 Offset 115' Lt. of IL 14

Table with columns: Elevation, N, Qu t/s.f., w (%), Surface Water El., Groundwater El. at Completion, After Hours, Elevation, N, Qu t/s.f., w (%). Includes soil descriptions like 'DENSE, ORANGE SANDY LOAM & GRAVEL' and 'MEDIUM, YELLOW-BROWN SAND'.

N-Standard Penetration Test- Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with 140 No. hammer falling 30" Qu-Unconfined Compressive Strength - t/sf w - Water Content - percentage of oven dry weight-%. Type failure: B - Bulge Failure S - Shear Failure E - Estimated Value P - Penetrometer



Bridge Foundation Boring Log

Sh. 1 of 1 Sh.

P-91-207-78 PROJECT BRIDGE High Mast Lighting Date 11-14-78

ROUTE IL 31 & Rte. #14 Bored By D. GROW

SEC. (25S & 26) L-78 STA. Checked By

COUNTY Mc Henry

Boring No. 4 Station 440+75 Offset 140' Lt. of IL 31

Table with columns: Elevation, N, Qu t/s.f., w (%), Surface Water El., Groundwater El. at Completion, After Hours, Elevation, N, Qu t/s.f., w (%). Includes soil descriptions like 'DENSE, BROWN SAND & GRAVEL' and 'VERY DENSE, BROWN SANDY LOAM & GRAVEL'.

N-Standard Penetration Test- Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with 140 No. hammer falling 30" Qu-Unconfined Compressive Strength - t/sf w - Water Content - percentage of oven dry weight-%. Type failure: B - Bulge Failure S - Shear Failure E - Estimated Value P - Penetrometer



Table with columns: USER NAME, DESIGNED, DRAWN, CHECKED, DATE, REVISED, etc.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

US-14 /IL-31 SOIL BORING LOGS

SCALE: SHEET OF SHEETS STA. TO STA.

Table with columns: F.A. RTE., SECTION, COUNTY, TOTAL SHEETS, SHEET NO., CONTRACT NO.

SBL-5







18'-6"  
PREPARE FOR  
HAND DRILLING

Bridge Foundation Boring Log

1-91-207-78 PROJECT BRIDGE High Mast Lighting Date 11-06-78 Sh. 1 of 1 Sh.  
ROUTE ILL 31 & RTE 14 Bored By D. GROW  
SEC. (25S-26) L-78 STA. Checked By

Boring No. 7 Station 20+ 90 Offset 100'rt of C.L.		Elevation	N	Qu t/sf.	w (%)	Surface Water El.	Groundwater El. at Completion	DRY	Elevation	N	Qu t/sf.	w (%)
Ground Surface		902.5	0									
MEDIUM, BROWN SANDY LOAM AND GRAVEL			4									
			5									
		898.0	5									
STIFF, REDDISH BROWN SANDY CLAY LOAM			3	B								
			6	1.75	16							
		895.5										
MEDIUM, BROWN SANDY LOAM AND GRAVEL			7									
			8									
			10									
		891.5	9									
			13									
			32									
DENSE, BROWN SANDY LOAM AND GRAVEL			11									
			19									
			16									
		885.5										
			16									
			18									
			16									
MEDIUM, LIGHT BROWN SAND. ( VERY CLEAN )			7									
			6									
			7									
SAMPLER REFUSAL		882.0	-20	100								
AUGER REFUSAL - BOULDER												
END OF BORING												

N-Standard Penetration Test- Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with 140 No. hammer falling 30".

Qu-Unconfined Compressive Strength - t/sf

w - Water Content - percentage of oven dry weight-%.

Type failure:  
B - Bulge Failure  
S - Shear Failure  
E - Estimated Value  
P - Penetrometer



Bridge Foundation Boring Log

P-91-207-78 PROJECT BRIDGE HIGH MAST LIGHTING Date 11-09-78 Sh. 1 of 1 Sh.  
ROUTE ILL 31 & Rte 14 Bored By D. GROW  
SEC. (25S & 26) L- 78 STA. Checked By

Boring No. 8 Station 448 + 05 Offset 75' RT of C.L. MEDIAN *		Elevation	N	Qu t/sf.	w (%)	Surface Water El.	Groundwater El. at Completion	DRY	Elevation	N	Qu t/sf.	w (%)
Ground Surface		903.4	0									
STIFF, BROWN SANDY CLAY LOAM & GRAVEL			4									
			6									
		898.0	6									
MEDIUM, BROWN SANDY LOAM & GRAVEL			11									
		898.4	11									
DENSE, BROWN SANDY LOAM AND GRAVEL			15									
			10									
WITH OCCASSIONAL BOULDERS			12									
			15									
UI TO 16 INCHES IN DIA.			15									
			-10									
			7									
			14									
			24									
			10									
			25									
			20									
		885.5										
WET			-15									
			7									
			30									
			32									
			6									
			9									
			10									
			-20									
			11									
			12									
		881.0	10									
END OF BORI												

N-Standard Penetration Test- Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with 140 No. hammer falling 30".

Qu-Unconfined Compressive Strength - t/sf

w - Water Content - percentage of oven dry weight-%.

Type failure:  
B - Bulge Failure  
S - Shear Failure  
E - Estimated Value  
P - Penetrometer



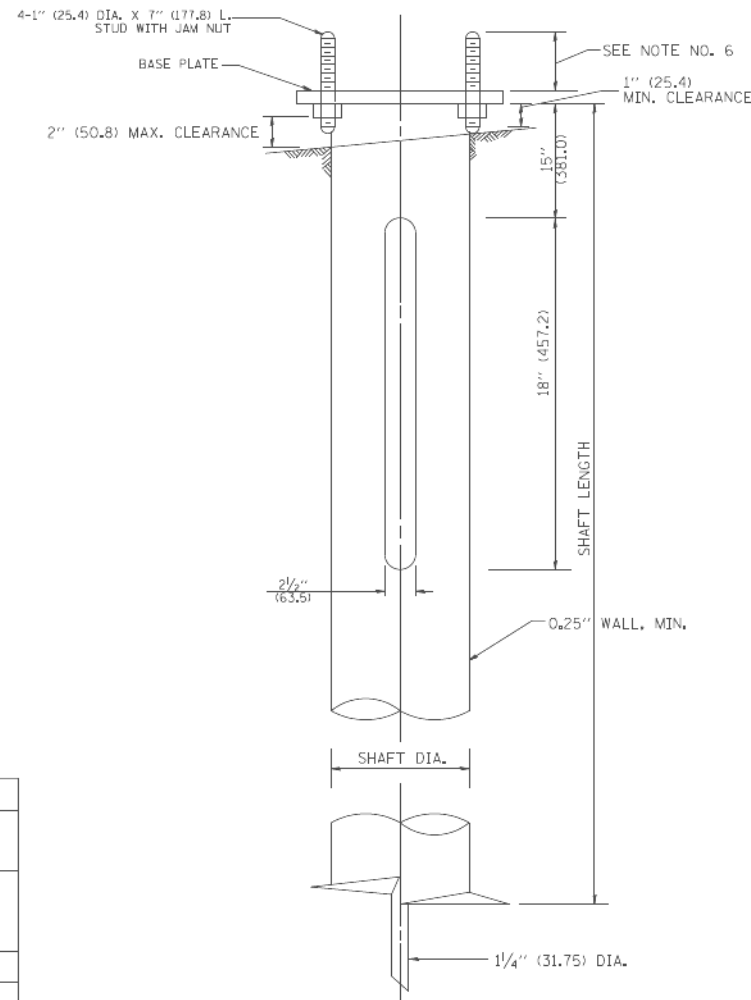
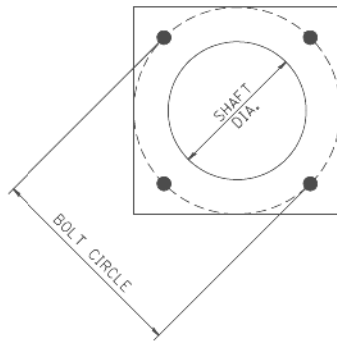
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DRAWN - GJ	REVISED -	
CHECKED - HS	REVISED -	
DATE - 03-21-2017	REVISED -	

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

US-14 /IL-31 SOIL BORING LOGS  
SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2016-017L		88	58
CONTRACT NO. 62C35				
ILLINOIS FED. AID PROJECT				

SBL-7



**NOTES:**

1. ALL DIMENSION IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. ALL MATERIAL SHALL BE GALVANIZED 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 FOUNDATION 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 ( $\pm 0.188$ ) TO THE SHAFT AXIS.
11. THE PILOT POINT AND SHAFT AXIS SHALL BE CONCENTRIC ( $\pm 0.125$ ) AND IN LINE ( $\pm 2^\circ$ ).
12. THE BASEPLATE SHALL BE STAMPED WITH THE MANUFACTURERS NAME AND DATE OF MANUFACTURE.

**HELIX FOUNDATION SIZE**

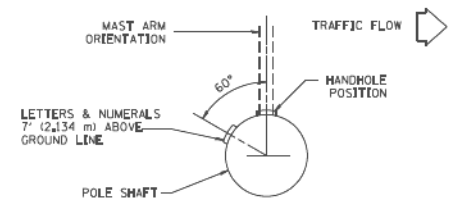
POLE MOUNTING HEIGHT	BOLT CIRCLE	SHAFT DIAMETER	SHAFT LENGTH	BASEPLATE
30 FT.-35 FT.	1 1/2"	8 5/8"	6 FT.	12"x12"x1"
31 FT.-35 FT.	1 1/2"	8 5/8"	6 FT.	12"x12"x1"
36 FT.-40 FT.	15"	8 5/8"	6 FT.	15"x15"x1 1/4"
41 FT.-45 FT.	15"	8 5/8"	6 FT.	15"x15"x1 1/4"
46 FT.-50 FT.	15"	10"	8 FT.	15"x15"x1 1/4"

**METAL HELIX FOUNDATION MATERIALS**

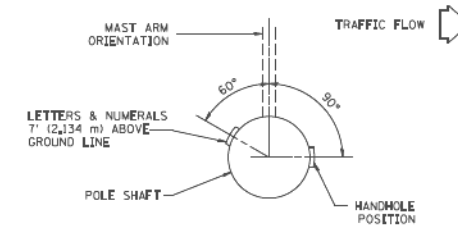
ITEM	MATERIAL REQUIREMENT
BASEPLATE	AASHTO M 270M, GRADE 36 (M270M, GRADE 250)
SHAFT	ASTM A 252, GRADE 2 (PHOSPHOROUS 0.04% MAXIMUM, SULFUR 0.05% MAXIMUM)
HELIX SCREW	AASHTO M 183 (ASTM A 635)
PILOT POINT	AASHTO M 270 (ASTM A 575)
ANCHOR RODS/STUDS	AASHTO M 314 (ASTM F 1554)
HEXAGON NUTS	AASHTO M 291M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

FILE NAME = W:\dststd\22x34\be305.dgn	USER NAME = geglanobt	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>LIGHT POLE FOUNDATION, METAL</b>		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN - DLB	REVISED -		<b>IDOT STANDARD DETAIL</b>		<b>BE-305</b>		CONTRACT NO.			
		CHECKED -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT			
		DATE - 02-27-07	REVISED -									

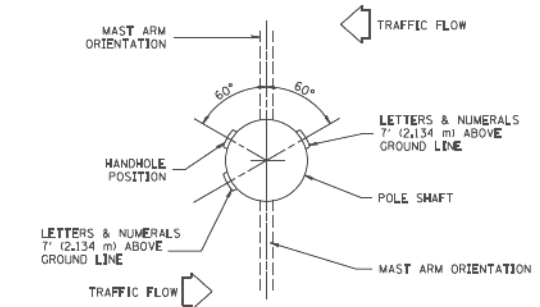
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		DRAWN - GJ	REVISED -		<b>IDOT STANDARD DETAIL</b>		<b>2016-017L</b>		CONTRACT NO. 62C35			
	PLOT SCALE = \$SCALE\$	CHECKED - HS	REVISED -		SCALE: NONE	SHEET OF SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT			
	PLOT DATE = 3/19/2018	DATE - 03-21-2017	REVISED -									



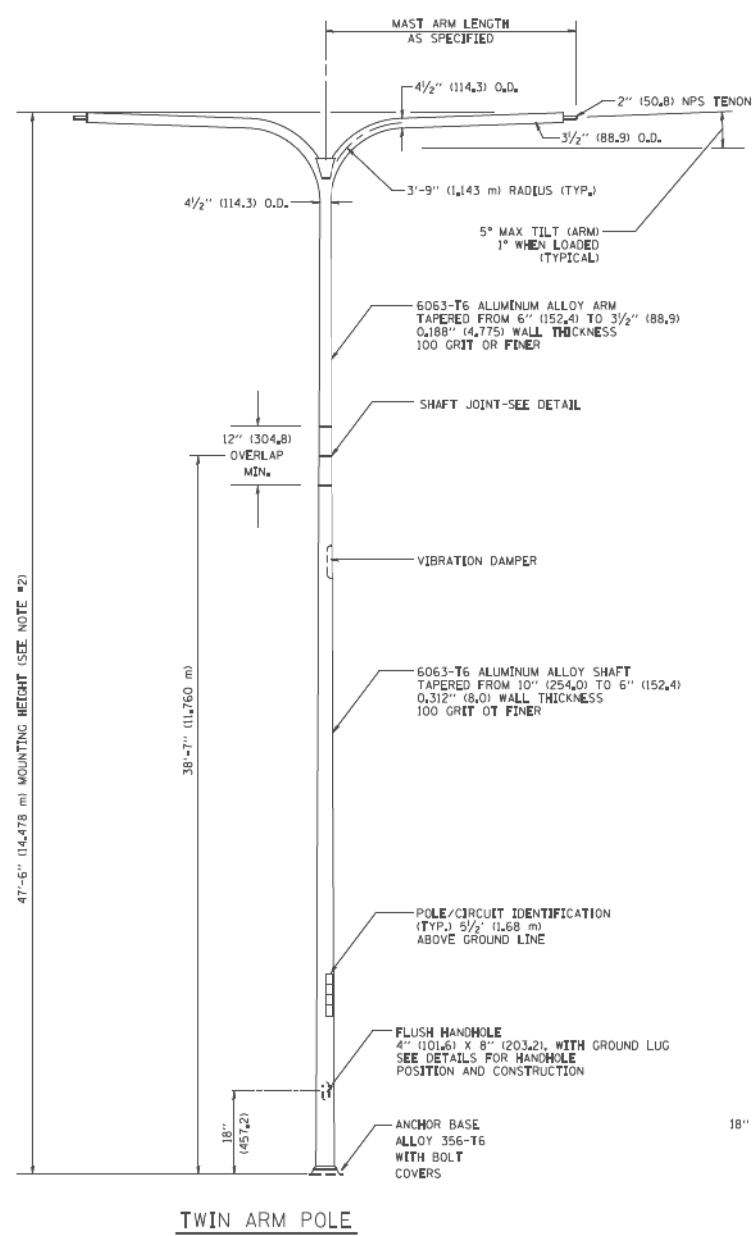
POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES MOUNTED ON BRIDGE PARAPET OR BARRIER WALL



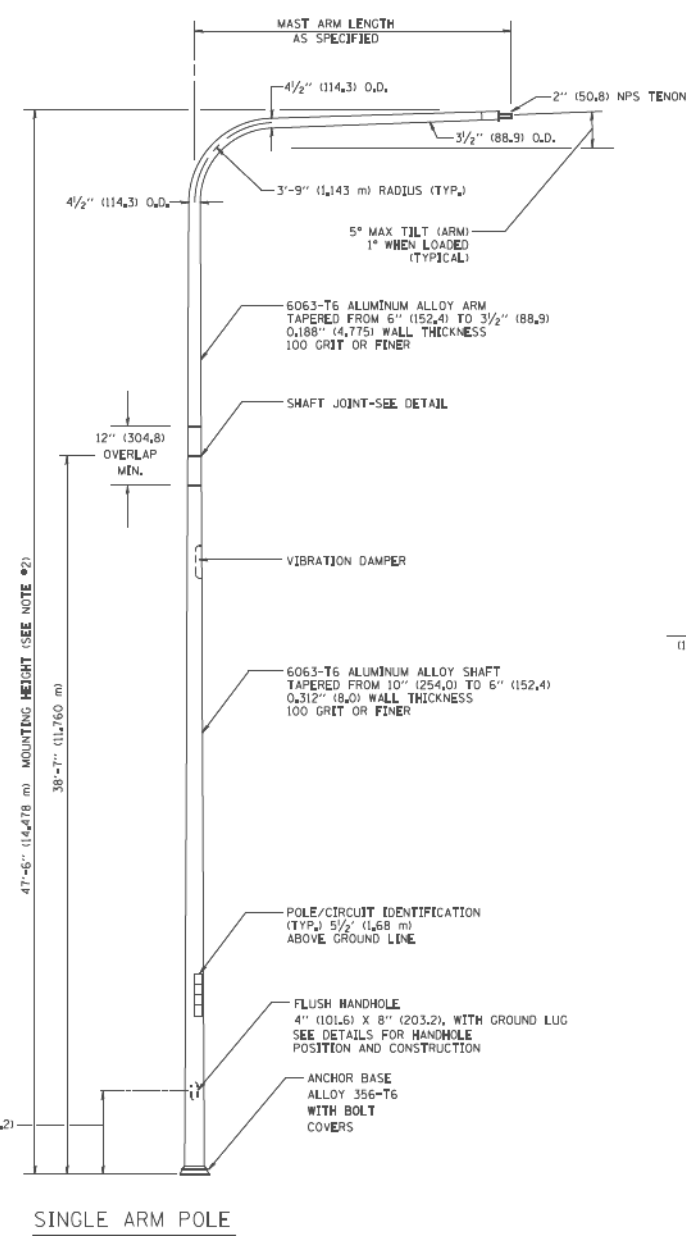
POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES



POSITION OF HANDHOLE AND POLE NUMBER FOR TWIN MAST ARM POLES

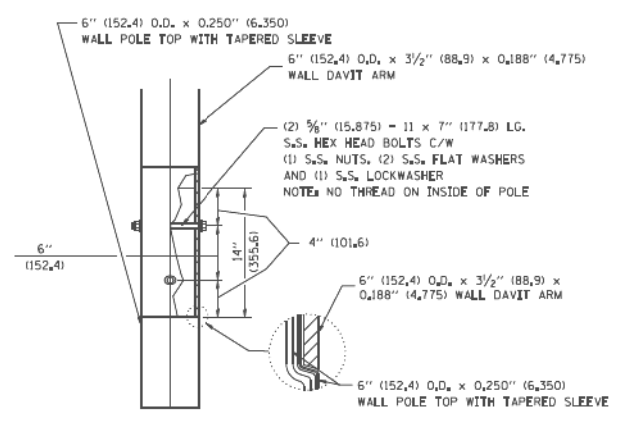


TWIN ARM POLE

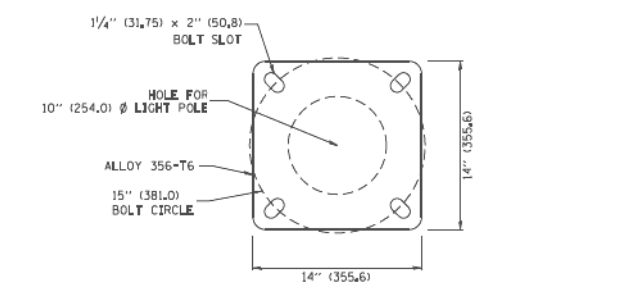


SINGLE ARM POLE

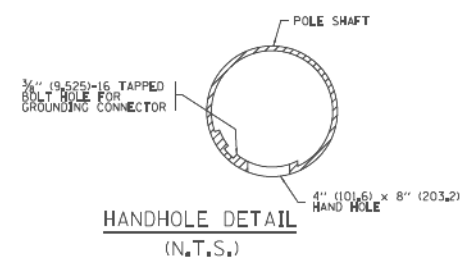
- NOTES:**
- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
  - MOUNTING HEIGHT IS DEFINED AS THE DISTANCE FROM THE CENTERLINE OF THE TENON TO THE BOTTOM OF THE ANCHOR BASE.
  - TWO PIECE SHAFT WILL BE MATCHED, MARKED AND INTERCHANGEABLE BETWEEN DIFFERENT UNITS. FIELD DRILLING OF THE HOLES WILL NOT BE ALLOWED.
  - THE LIGHT POLE WILL MEET AASHTO DESIGN CRITERIA AS SPECIFIED.
  - THE INSTALLING CONTRACTOR WILL PROVIDE A UL LISTED GROUNDING CONNECTOR, BURNDY K2C23, T&B SP4DL OR APPROVED EQUAL.
  - LIGHT POLES WILL NOT BE INSTALLED WITHOUT MAST ARMS AND LUMINAIRES.
  - LIGHT POLES WILL BE SET PLUMB ON THE FOUNDATION WITHOUT THE USE OF LEVELING NUTS, WASHERS OR SHIMS.
  - LIGHTING UNIT IDENTIFICATION NUMBERS SHALL BE INSTALLED BEFORE THE LIGHTING UNIT IS ENERGIZED.



DAVIT ARM CONNECTION  
[14" (355.6) OVERLAP SHOWN]



LIGHT POLE BASE PLATE DETAIL  
(FOR POLE MOUNTED ON 15 INCH (381.0) BOLT CIRCLE FOUNDATION)



HANDHOLE DETAIL  
(N.T.S.)

FILE NAME =	USER NAME = drivakosgn	DESIGNED -	REVISED - D. DREW 05-07-92
c:\pwwork\paxdot\drivakosgn\08188315\be	drivakosgn	DRAWN - LEY	REVISED - R. TOMSONS 09-06-00
	PLOT SCALE = 49.9999	CHECKED -	REVISED - R. TOMSONS 09-02-03
	PLOT DATE = 2/27/2013	DATE -	REVISED - R. TOMSONS 01-18-13

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DAVIT LIGHT POLE		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47'-6" (14.478 m) MOUNTING HEIGHT						
		BE-410		CONTRACT NO.		
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

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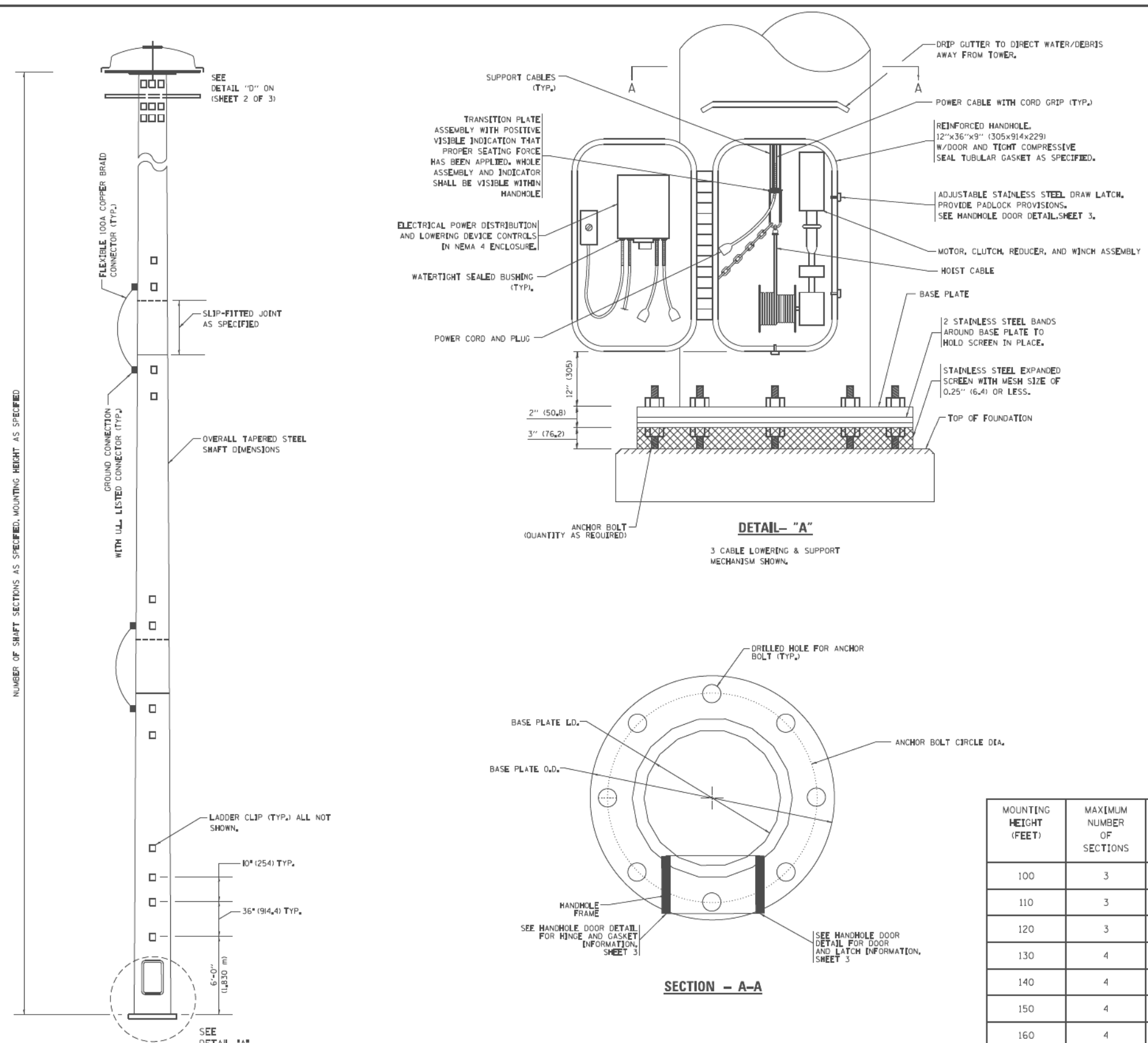


USER NAME = \$USER\$	DESIGNED - HM	REVISED -
DRAWN - GJ	REVISED -	
PLOT SCALE = \$SCALE\$	CHECKED - HS	REVISED -
PLOT DATE = \$DATE\$	DATE - 03-21-2017	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IDOT STANDARD DETAIL		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			2016-017L		88	60
				CONTRACT NO. 62C35		
SCALE: NONE	SHEET OF SHEETS	STA.	TO STA.		ILLINOIS FED. AID PROJECT	

SD-2



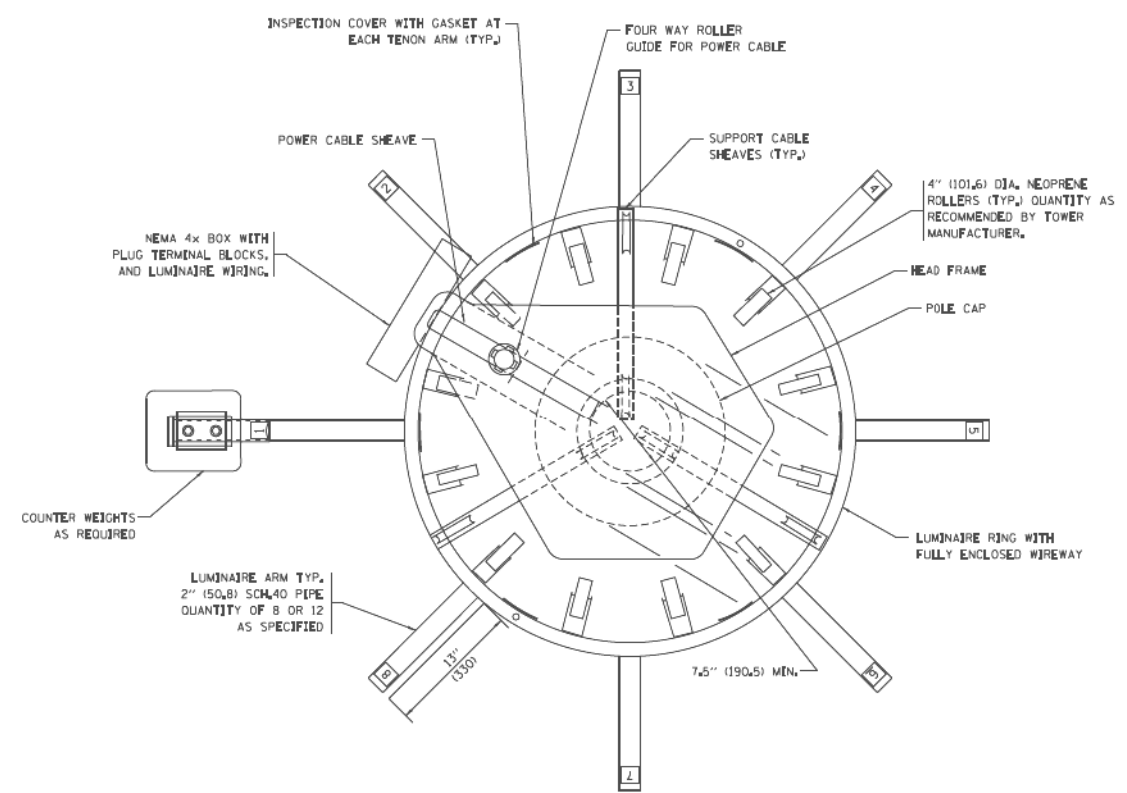
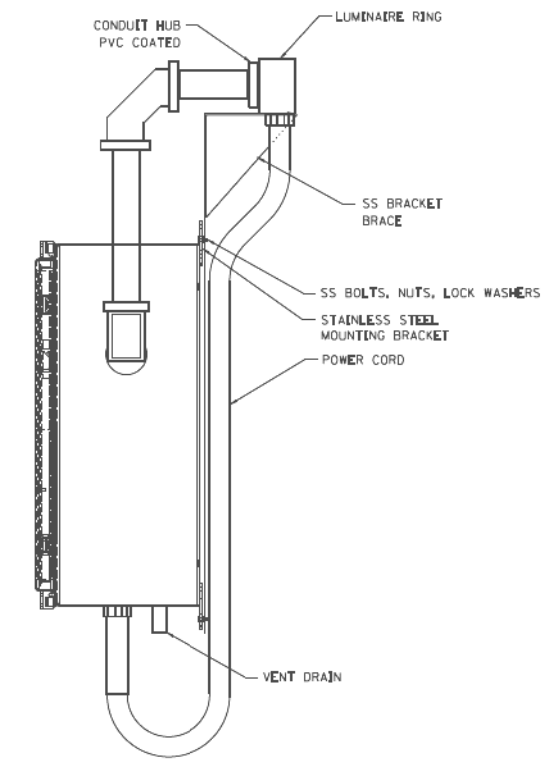
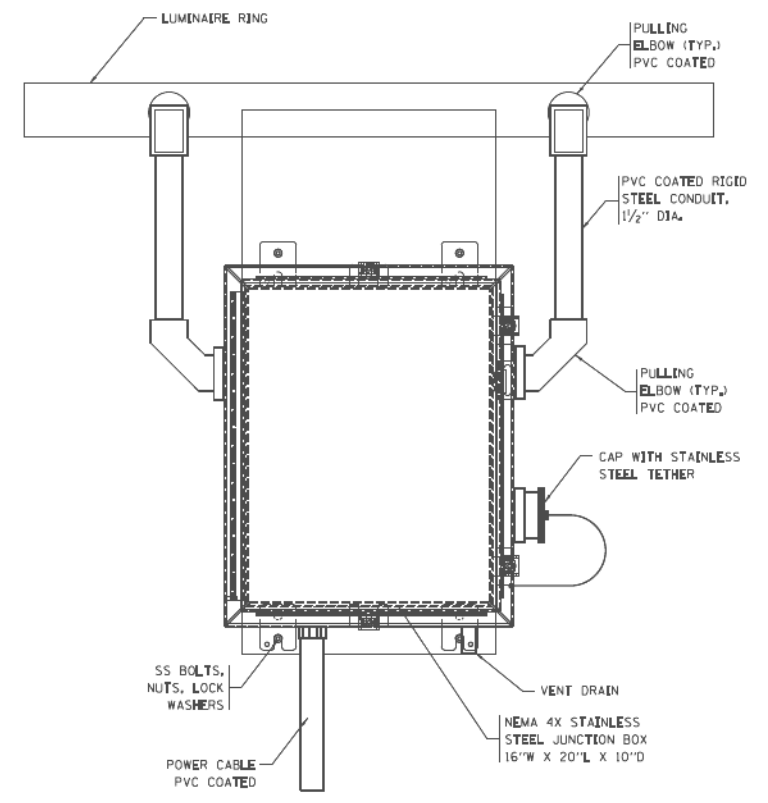
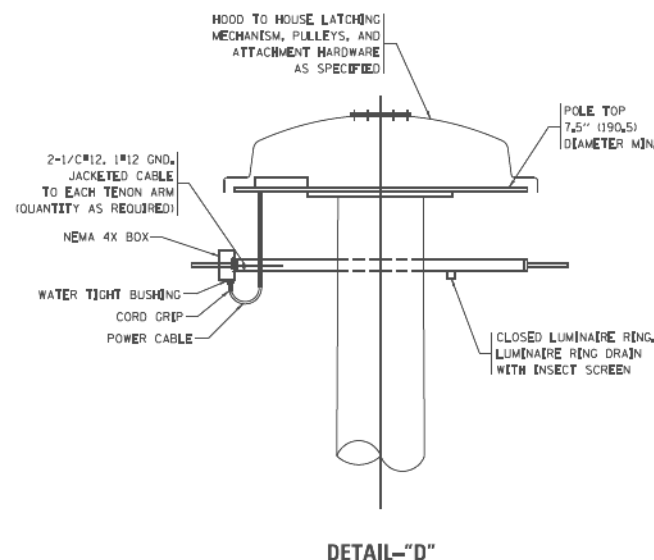
- NOTES:**
- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
  - THE DESIGN SHALL BE BASED UPON AASHTO "LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS" IN EFFECT ON THE DATE OF INVITATION FOR BIDS, HOWEVER THE WIDTH OF REINFORCED OPENING REQUIREMENT IN CHAPTER 5, SECTION 5.6.6.1 SHALL NOT APPLY. LIGHT TOWERS SHALL BE DESIGNED FOR ADT > 10,000, RISK CATEGORY TYPICAL, AND FATIGUE IMPORTANCE CATEGORY 1. A MINIMUM TOTAL COMBINED LUMINAIRE WEIGHT OF 600 LB (272 KG) SHALL BE USED PLUS A COMBINED HOOD AREA AND LOWERING RING WEIGHT OF 400 LB (181 KG). THE ASSOCIATED TOTAL PROJECTED AREA SHALL BE 24 SQ FT (2.23 SQ M) AND 10 SQ FT (0.93 SQ M) RESPECTIVELY.
  - ALL TOWER SHAFT COMPONENTS, INCLUDING, BUT NOT LIMITED TO THE SHAFT SECTIONS, BASE PLATE, LADDER CLIPS, HANDHOLE DOOR, HANDHOLE REINFORCING, RAIN GUTTER, AND BASE PLATE, SHALL BE FABRICATED FROM HIGH-STRENGTH, LOW ALLOY, STEEL WITH A MINIMUM YIELD STRENGTH OF 50,000 PSI (345 K PA) ACCORDING TO AASHTO M 270 (ASTM A 572 GR50).
  - THE ELECTRIC MOTOR, MOTOR GEAR REDUCER, WINCH DRUM ASSEMBLY AND AUTOMATIC SHUTOFF SWITCH OF THE LOWERING DEVICE SHALL BE ACCESSIBLE FROM THE FRONT OF THE TOWER FOR EASY REMOVAL AND MAINTENANCE. ALL COMPONENTS SHALL BE REMOVABLE THROUGH THE HANDHOLE.
  - THE LIGHT TOWER SHAFT SHALL HAVE LADDER CLIPS. CLIPS SHALL BEGIN 6 FT. (1.8 m) ABOVE THE BASE PLATE WITH ALTERNATE 36 INCH (900) AND 10 INCH (250) SPACING THEREAFTER, FOR THE ENTIRE LENGTH. THE TOP 10 FT. (3 m) OF THE POLE SHAFT SHALL HAVE 3 SETS OF CLIPS. EACH SET OF CLIPS SHALL BE 120 DEGREES APART. CLIPS SHALL BE 0.25 X 2 INCHES (6 X 50) WELDED TO THE SHAFT TO PRODUCE A SLOT 0.625 INCHES (15.9) DEEP AND 1.625 INCHES (41.3) LONG. THE TOP INSIDE EDGE SHALL BE CHAMFERED.
  - A COPPER BONDING JUMPER SHALL BOND SLIP-FIT POLE SECTIONS TOGETHER WITH A FLAT COPPER MESH AND STAINLESS STEEL GROUND LUGS.
  - ALL TOWER SHAFT HARDWARE, SUCH AS GROUND LUGS, JUNCTION BOXES, HARDWARE FOR THE HANDHOLE DOOR, INCLUDING THE HANDLE/LATCH MECHANISM, HINGE AND DOOR STOP, SHALL BE STAINLESS STEEL. ALL CONDUIT AND CONDUIT FITTINGS SHALL BE PVC COATED GALVANIZED STEEL.
  - THE ENTIRE TOWER INCLUDING THE SHAFT, HANDHOLE, HANDHOLE DOOR, BASE PLATE AND ALL OTHER ELEMENTS WELDED TO THE SHAFT SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M 111 (ASTM A 123). THE LUMINAIRE RING SHALL BE PRIMED AND PAINTED AS SPECIFIED OR BE STAINLESS STEEL.
  - ALL MULTI-CONDUCTOR CABLES SHALL BE FITTED WITH A HEAT-SHRINK MULTI-LEG BOOT. THE BOOT SHALL MEET MILITARY SPECIFICATION MIL-I-81765/1.
  - THE LIGHT TOWER SHALL BE STRAIGHT AND CENTERED ON ITS LONGITUDINAL AXIS, UNDER NO-WIND CONDITIONS, SO WHEN EXAMINED WITH A TRANSIT FROM ANY DIRECTION, THE DEVIATION FROM THE NORMAL SHALL NOT EXCEED 1/8 IN. IN 3 FT (2 mm IN 1 m) WITHIN ANY 5 FT (1.5 m) OF HEIGHT, WITH TOTAL DEVIATION NOT TO EXCEED 3 IN. (75) FROM THE VERTICAL AXIS THROUGH THE CENTER OF THE POLE BASE.
  - PVC CONDUIT WILL NOT BE ALLOWED FOR ANY LIGHT TOWER COMPONENT.
  - COUNTER WEIGHTS TO BE INCLUDED AS A PART OF THE LIGHT TOWER PAY ITEM.

**LIGHT TOWER DIMENSIONS**

MOUNTING HEIGHT (FEET)	MAXIMUM NUMBER OF SECTIONS	MINIMUM NUMBER OF ANCHOR RODS	MINIMUM TOWER TOP DIAMETER (INCHES)	MINIMUM TOWER BOTTOM DIAMETER (INCHES)	MINIMUM ROD DIAMETER (INCHES)	MINIMUM ANCHOR ROD (CIRCLE) (INCHES)
100	3	8	7.5	24	1.5	30
110	3	8	7.5	24	1.5	30
120	3	8	7.5	26	1.75	36
130	4	8	7.5	28	1.75	36
140	4	8	7.5	28	1.75	36
150	4	8	7.5	30	2.25	38
160	4	8	7.5	32	2.25	38

FILE NAME =	USER NAME = footemj	DESIGNED -	REVISED - R. TOMSONS 09-02-10	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>HIGH MAST LIGHT TOWER 100 FT TO 160 FT (30 m TO 49 m)</b>		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pe:\jlb84EBID\INTEG.illinois.gov\FWIDOT\Documents\DOT Offices\District 1\Projects\Dist 1\GDM\CAD\Detail\CADsheets\be588.dgn		CHECKED -	REVISED - R. TOMSONS 02-27-13		SCALE	SHEET 1 OF 3 SHEETS	STA.	BE-500	CONTRACT NO.	(ILLINOIS) FED. AID PROJECT		
Default	PLOT SCALE = 50.0000' / 1"	DATE -	REVISED - R. TOMSONS 04-29-16									
	PLOT DATE = 7/27/2016		REVISED - R. TOMSONS 07-26-16									

	USER NAME = *USER*	DESIGNED - HM	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>IDOT STANDARD DETAIL</b>		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = *SCALE*	DRAWN - GJ	REVISED -		SCALE: NONE	SHEET OF SHEETS	STA. TO STA.	2016-017L		88	61
DELTA ENGINEERING GROUP, LLC	PLOT DATE = *DATE*	CHECKED - HS	REVISED -						CONTRACT NO. 62C35		
		DATE - 03-21-2017	REVISED -				(ILLINOIS) FED. AID PROJECT				



FRONT VIEW  
N.T.S.

SIDE VIEW  
N.T.S.

**LUMINAIRE RING TERMINAL BOX**

**NOTES:**

- LUMINAIRE WIRES SHALL EXTEND 24 INCHES (609mm) LONGER THAN THE RESPECTIVE TENON ARM AND SHALL BE TRAINED BACK INTO THE ARM WHICH SHALL THEN BE CLOSED WITH A CAP AS SPECIFIED. ALL WIRES SHALL BE CAPPED WITH HEAT SHRINK INSULATING BOOTS. CRIMP CAPS ARE UNACCEPTABLE. ALL RING WIRES SHALL BE TAGGED WITH WIRE MARKERS AT BOTH ENDS. THE TENON ARMS SHALL ALSO BE TAGGED CORRESPONDING TO THE WIRING CONTAINED WITHIN.
- SPLICING WILL NOT BE ALLOWED WITHIN THE LUMINAIRE RING.
- ALL TOWER SHAFT HARDWARE, SUCH AS GROUND LUGS, JUNCTION BOXES, HARDWARE FOR THE HANDHOLE DOOR, INCLUDING THE HANDLE/LATCH MECHANISM, HINGE AND DOOR STOP, SHALL BE STAINLESS STEEL. ALL CONDUIT AND CONDUIT FITTINGS SHALL BE PVC COATED GALVANIZED STEEL.
- ALL MULTI-CONDUCTOR CABLES SHALL BE FITTED WITH A HEAT-SHRINK MULTI-LEG BOOT. THE BOOT SHALL MEET MILITARY SPECIFICATION MIL-1-81765/1.

FILE NAME = p:\11\884EB\00\TEG\11\inois.gov\WIDOT\Documents\DOT Offices\District 1\Projects\Dist 1\GRAN\CADData\CADsheets\be588.dgn	USER NAME = Footamj	DESIGNED - HM	REVISIONS REVISED - R. TOMSONS 09-02-10 REVISED - R. TOMSONS 02-27-13 CHECKED - REVISOR - R. TOMSONS 04-29-16 REVISOR - R. TOMSONS 07-26-16	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>HIGH MAST LIGHT TOWER 100 FT TO 160 FT (30 m TO 49 m)</b>	F.A. R.T.E. SECTION COUNTY TOTAL SHEETS SHEET NO.
PLOT SCALE = 50.0000 / 1"	PLOT DATE = 7/27/2016	DATE -		SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.	BE-500 CONTRACT NO.	ILLINOIS FED. AID PROJECT

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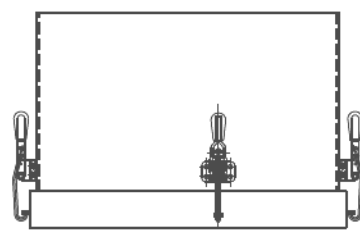


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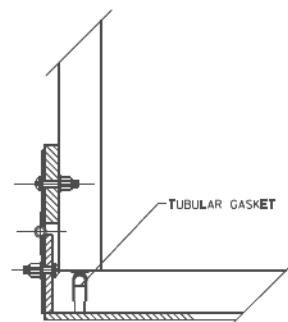
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>IDOT STANDARD DETAIL</b>			
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STA.	TO	STA.	TO

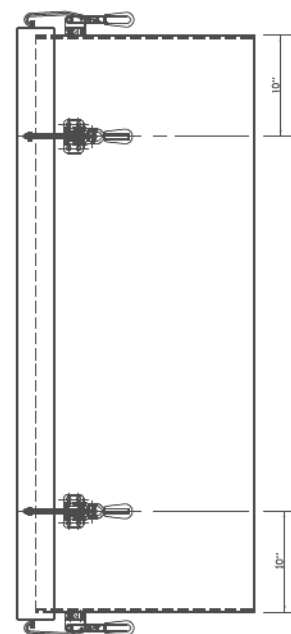
F.A. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2016-017L		88	62
			CONTRACT NO. 62C35	
ILLINOIS FED. AID PROJECT				



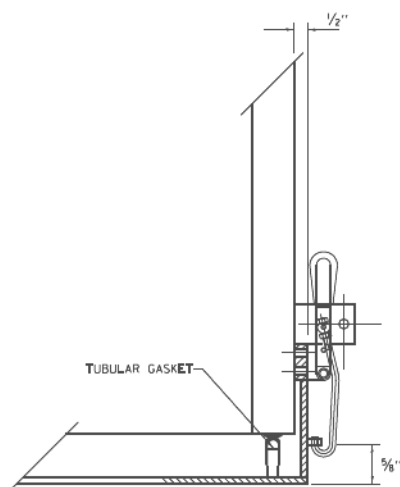
TOP VIEW



HINGE DETAIL

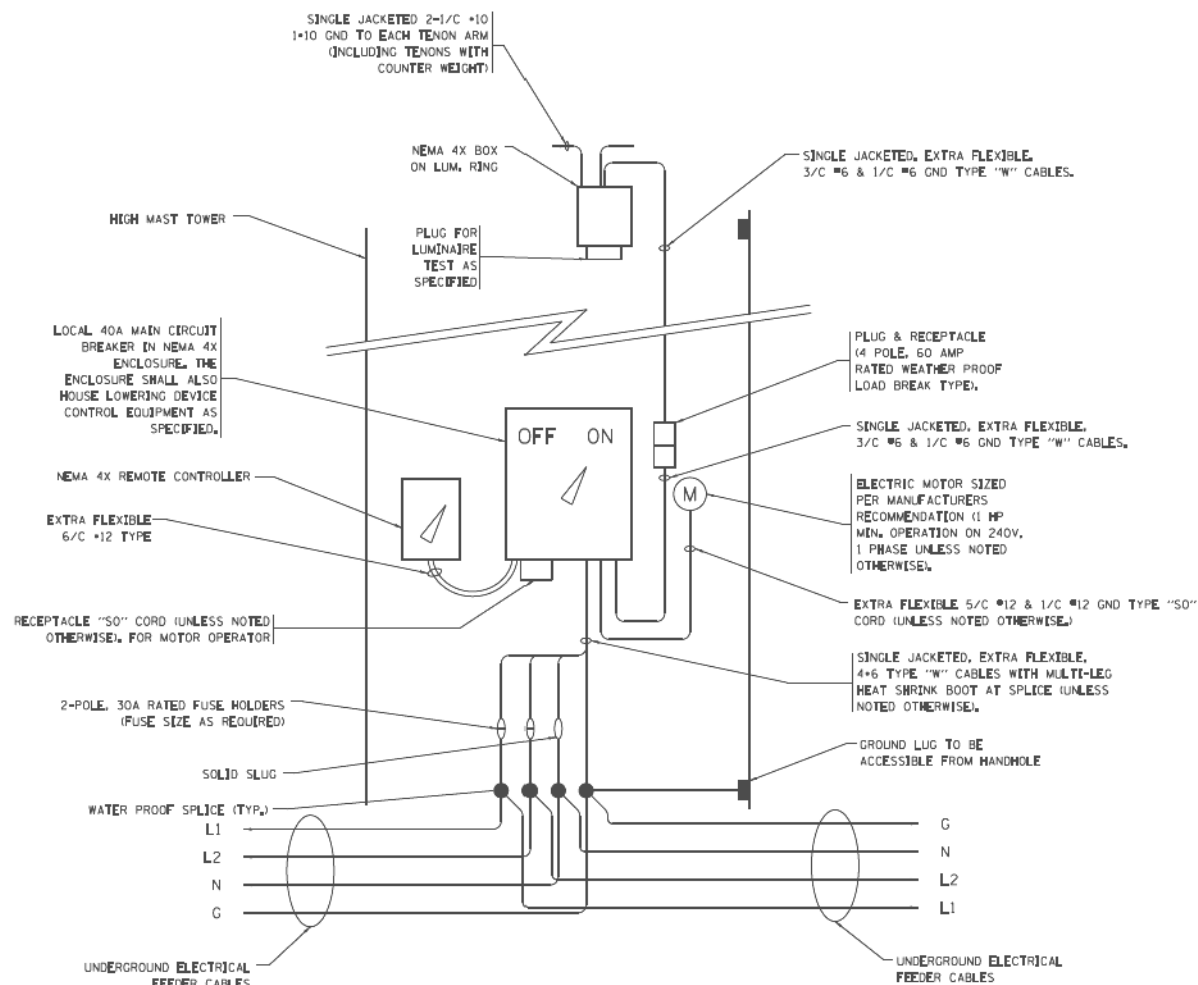


SIDE VIEW

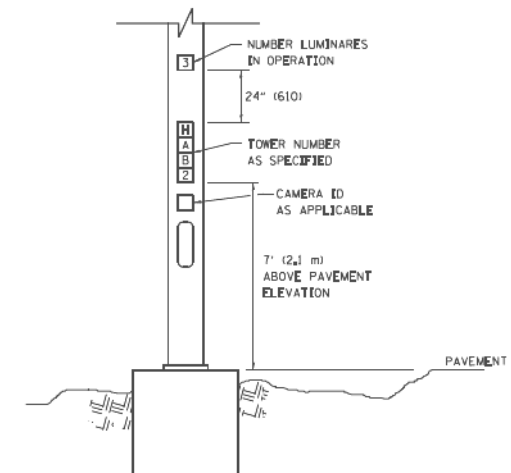


LATCH DETAIL

HANDHOLE DOOR DETAILS



HIGH MAST POLE WIRING DIAGRAM



LIGHT TOWER NUMBERING DETAIL

FILE NAME =	USER NAME = footen_j	DESIGNED -	REVISIONS
pw\11084EBID\INTEG\11\inois.gov\WIDOT\Documents\IDOT Offices\District 1\Projects\Dist 1\GAM\CADD\Detail\CADsheets\be588.dgn	Documents\IDOT Offices\District 1\Projects\Dist 1\GAM\CADD\Detail\CADsheets\be588.dgn	HM	- R. TOMSONS 09-02-10
PLOT SCALE = 50.0000 / 1"		CHECKED -	REVISIONS
Default		HS	- R. TOMSONS 02-27-13
		DATE -	REVISIONS
		7/27/2016	- R. TOMSONS 04-29-16
			REVISIONS
			- R. TOMSONS 07-26-16

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

HIGH MAST LIGHT TOWER	
100 FT TO 160 FT (30 m TO 49 m)	
SCALE:	SHEET 3 OF 3 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BE-500		88	63
ILLINOIS FED. AID PROJECT			CONTRACT NO.	

4590 800 7070104 (0/23/13) AEM Client/Doc



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DRAWN -	CHECKED -	REVISIONS
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	03-21-2017	-
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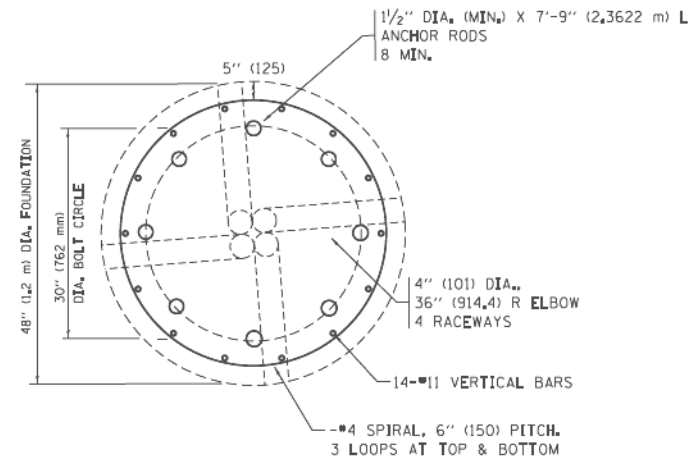
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IDOT STANDARD DETAIL	
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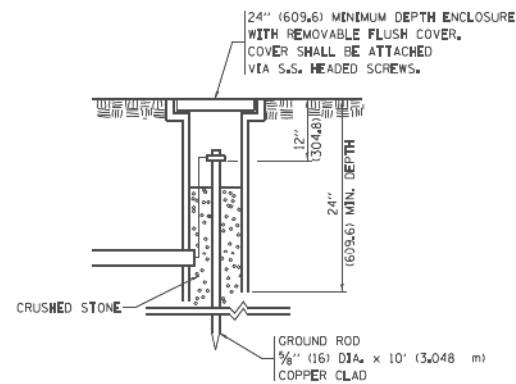
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ILLINOIS FED. AID PROJECT			CONTRACT NO. 62C35	

SD-5

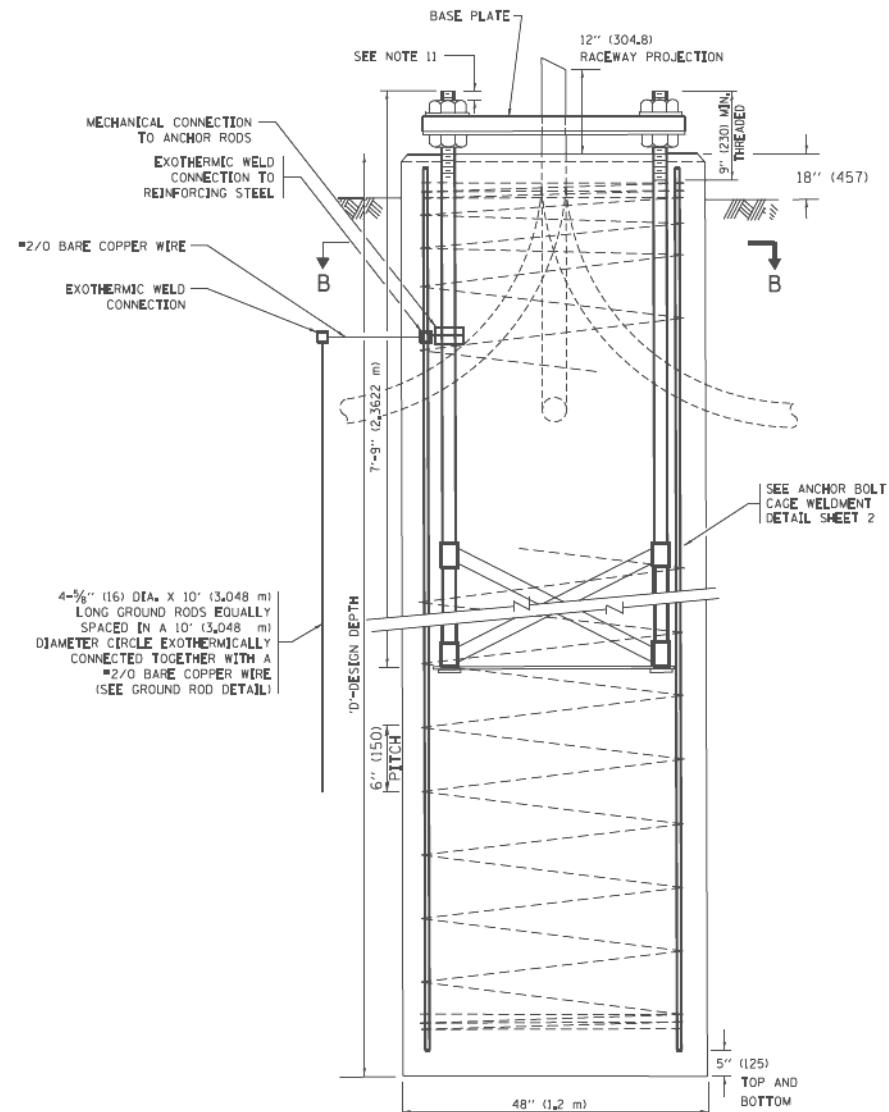
SHAFT LENGTH ( D ) TABLE				
SOIL CONSISTENCY		AVERAGE STRENGTH	LIGHT TOWER MOUNTING HEIGHT	
		0u In tsf (0u In kPa)	100 FT. (30 m)	110 FT. (34 m)
COHESIVE	SOFT	<0.5 (<50)	22'-6" (6.9 m)	24'-0" (7.2 m)
	MEDIUM	0.5 TO 1 (50 TO 100)	18'-6" (6.9 m)	19'-0" (5.8 m)
	STIFF	1 TO 2 (100 TO 200)	15'-6" (4.7 m)	16'-0" (5.5 m)
	VERY STIFF	2 TO 4 (200 TO 400)	13'-6" (4.1 m)	14'-0" (4.2 m)
	HARD	>4 (>400)	12'-0" (3.6 m)	12'-6" (3.7 m)
GRANULAR		N In BLOWS/FT. (N In BLOWS/0.3m)		
	VERY LOOSE	<5 (<5)	18'-0" (5.4 m)	18'-6" (5.6 m)
	LOOSE	5 TO 10 (5 TO 10)	16'-6" (4.9 m)	17'-0" (5.1 m)
	MEDIUM	10 TO 25 (10 TO 25)	15'-6" (5.2 m)	16'-0" (5.9 m)
	DENSE	25 TO 50 (25 TO 50)	15'-0" (4.5 m)	15'-6" (4.6 m)
	VERY DENSE	>50 (>50)	14'-0" (4.2 m)	14'-6" (4.4 m)



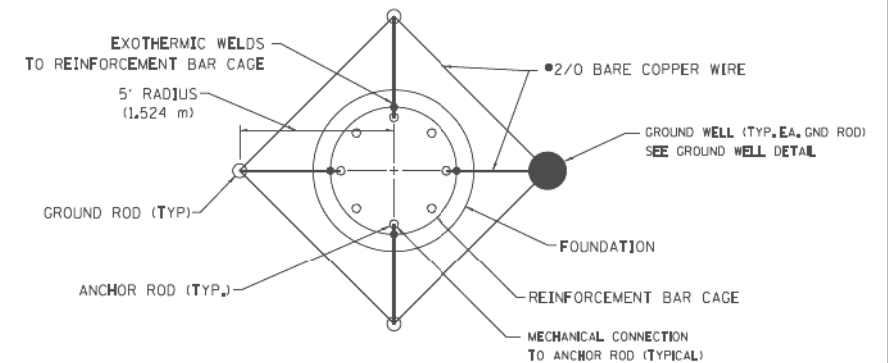
**SECTION-B-B**



**GROUND WELL DETAIL**



**FOUNDATION ELEVATION**



**GROUND ROD DETAIL**

- DESIGN NOTES**
- ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN
  - THE ANCHOR RODS SHALL BE VERTICAL NO ADJUSTMENT SHALL BE ALLOWED AFTER THE FOUNDATION IS PLACED.
  - THE GAP BETWEEN THE FOUNDATION AND THE BASE PLATE SHALL BE ENCLOSED WITH A STAINLESS STEEL SCREEN FASTENED WITH A STAINLESS STEEL BAND.
  - THE TOP OF THE FOUNDATION TO 18" (450) BELOW GRADE SHALL BE FORMED.
  - SURFACE WATER WILL NOT BE PERMITTED TO ENTER THE HOLE AND ALL WATER WHICH MAY HAVE INFILTRATED INTO THE HOLE SHALL BE REMOVED BEFORE PLACING CONCRETE.
  - THE LIGHT TOWER SHALL NOT BE ERECTED UNTIL AFTER THE CONCRETE HAS BEEN CURED ACCORDING TO ARTICLE 1020.13.
  - ANCHOR RODS SHALL BE STRAIGHT AND SHALL BE ACCORDING TO ASTM F1554, GRADE 725 (GRADE 105) AND GALVANIZED ACCORDING TO ARTICLE 1006.9.
  - ANCHOR ROD INFORMATION SHALL BE SUBMITTED FOR APPROVAL AND SHALL BE FULLY COORDINATED FOR APPROVAL WITH TOWER MANUFACTURER REQUIREMENTS.
  - REINFORCEMENT BARS SHALL BE ACCORDING TO ARTICLE 1006.10
  - TWO ANCHOR RODS OPPOSITE EACH OTHER SHALL HAVE THE ANCHOR ROD THREADS PEENED AFTER NUTS ARE INSTALLED.
  - A MINIMUM OF THREE FULL THREADS SHALL REMAIN EXPOSED AFTER LIGHT TOWER IS INSTALLED.
  - ALL GROUNDING INDICATED IN THE PLANS SHALL BE INCLUDED IN THE COST OF THE LIGHT TOWER FOUNDATION AND SHALL NOT BE PAID FOR SEPARATELY.
  - CUT NUTS, OR JAM NUTS, ARE NOT ALLOWED
  - ANCHOR ROD QUANTITY, DIAMETER, AND LENGTH SHALL BE DETERMINED BY THE TOWER MANUFACTURER AND APPROVED BY THE ENGINEER. EACH FOUNDATION SHALL HAVE A MINIMUM OF 8 ANCHOR RODS.
  - COORDINATE THE ROD CIRCLE DIAMETER OF THE TOWER WITH THE DIAMETER OF THE ANCHOR ROD CAGE.
  - THE FOUNDATION SHALL BE POURED MONOLITHICALLY AND SHALL HAVE NO CONSTRUCTION JOINTS.

FILE NAME =	USER NAME = footej	DESIGNED -	REVISED - R. TOMSONS 09-02-10
PROJECT = \\IL084ERID\INTER\Illinois\gov\PIDOT\Documents\DOT_Offices\District 1\Projects\IDOT\GRANULAR\CAD\Sheet\CAD\sheet\be581.dgn		DRAWN - GJ	REVISED - R. TOMSONS 02-27-13
PLOT SCALE = 50.000' / in.		CHECKED - HS	REVISED - R. TOMSONS 04-29-16
PLOT DATE = 7/27/2016		DATE -	REVISED - R. TOMSONS 07-27-16

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

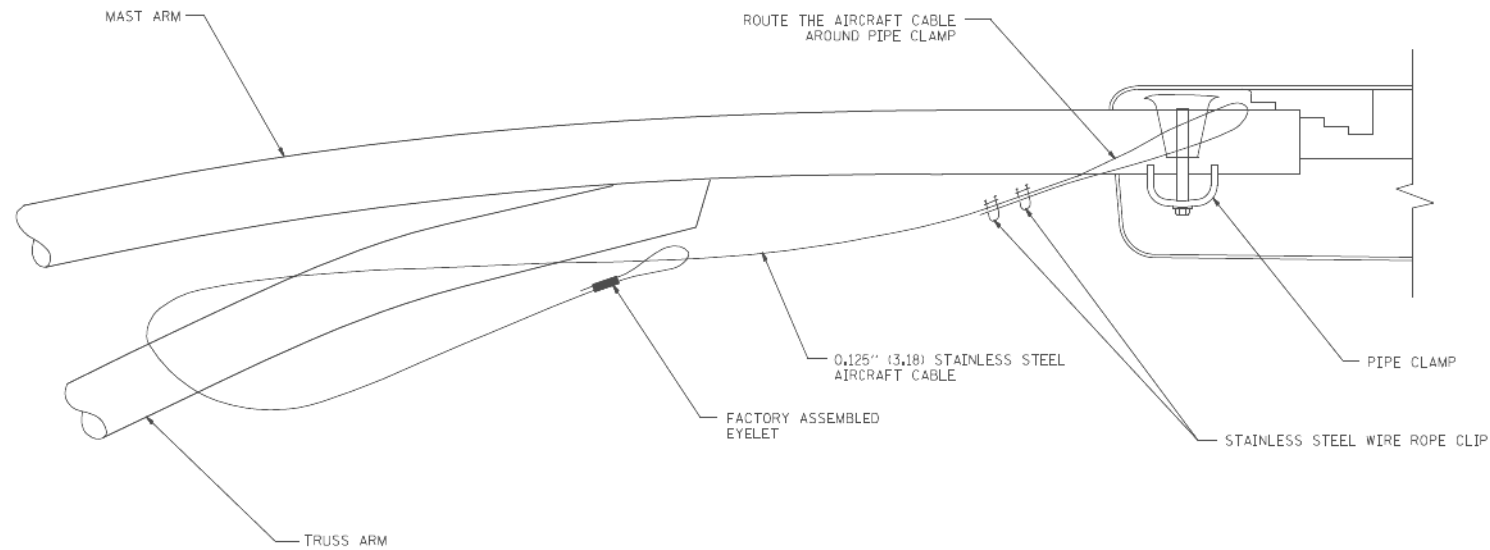
HIGH MAST LIGHT TOWER  
100 FT TO 110 FT (30 m TO 34 m) FOUNDATION DETAIL

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

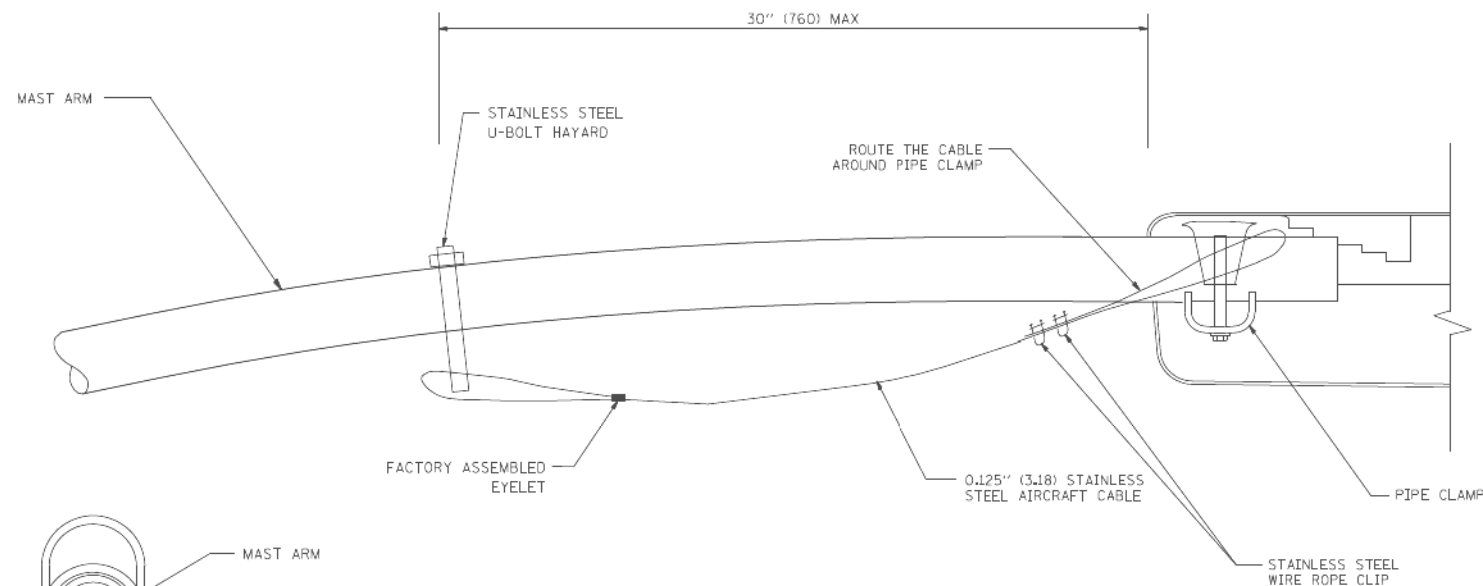
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	BE-501		88	64
CONTRACT NO.			ILLINOIS FED. AID PROJECT	



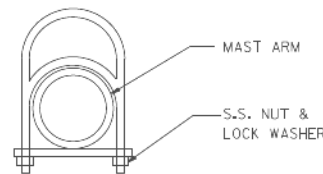




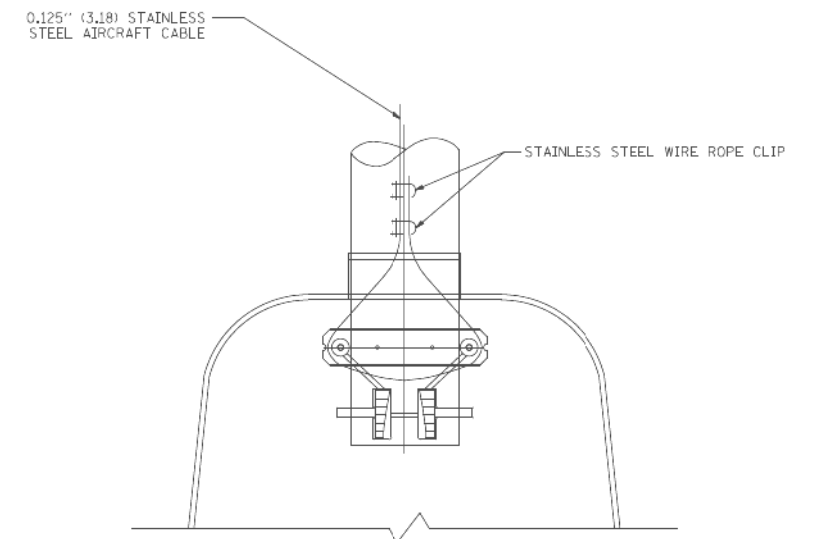
SIDE VIEW (TRUSS ARM)  
N.T.S.



SIDE VIEW (SINGLE MEMBER OR DAVIT ARM)  
N.T.S.



STAINLESS STEEL  
U-BOLT HAYARD



BOTTOM VIEW  
N.T.S.

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.
2. CONTRACTOR SHALL ADJUST THE WIRE CLIP TO ELIMINATE ANY SLACK FROM THE WIRE ROPE.
3. THE 0.125" (3.18) STAINLESS STEEL AIRCRAFT CABLE SHALL REMAIN VISIBLE FROM THE GROUND LEVEL.
4. THE BREAKING STRENGTH OF THE CABLE SHALL BE 1700 LBS. MIN.

FILE NAME = W:\d\sssd\22434\be78L.dgn	USER NAME = goglarobts	DESIGNED - DRAWN -	REVISOR - REVISOR -	DATE - 08-08-03
PLOT SCALE = 50,000 1 / IN.	CHECKED -	REVISOR -	REVISOR -	
PLOT DATE = 1/4/2008	DATE -	REVISOR -	REVISOR -	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

LUMINAIRE SAFETY CABLE ASSEMBLY

SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			BE-701		CONTRACT NO.		
			ILLINOIS FED. AID PROJECT				

SD-8

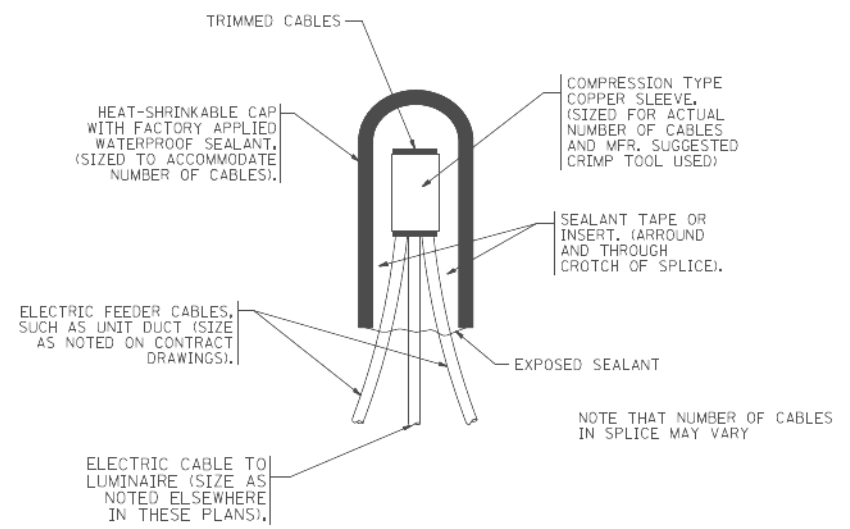


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	DRAWN - GJ	REVISOR -
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PLOT DATE = \$DATE*	DATE - 03-21-2017	REVISOR -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

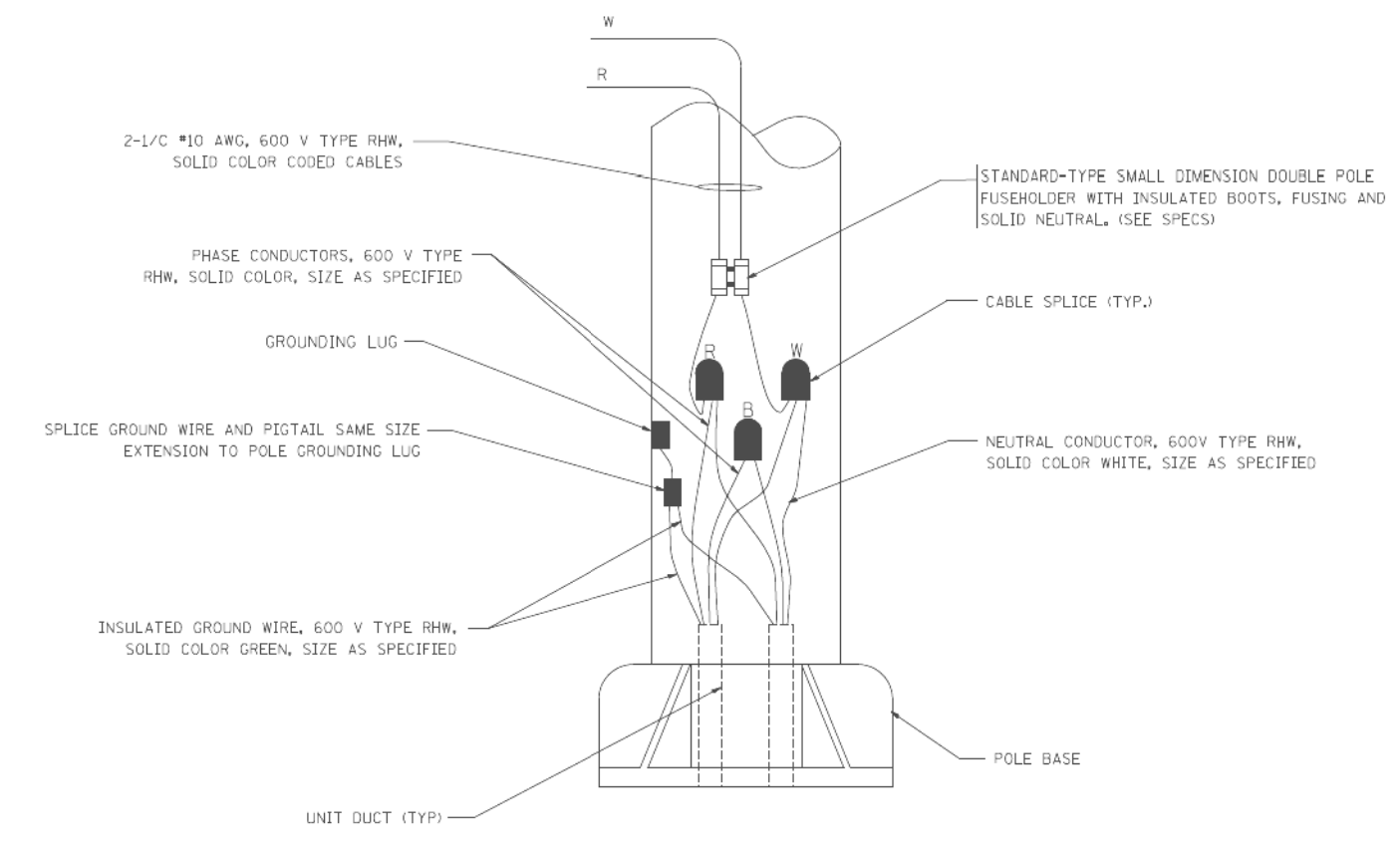
IDOT STANDARD DETAIL

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			2016-017L		88 66		
			CONTRACT NO. 62C35				
ILLINOIS FED. AID PROJECT							

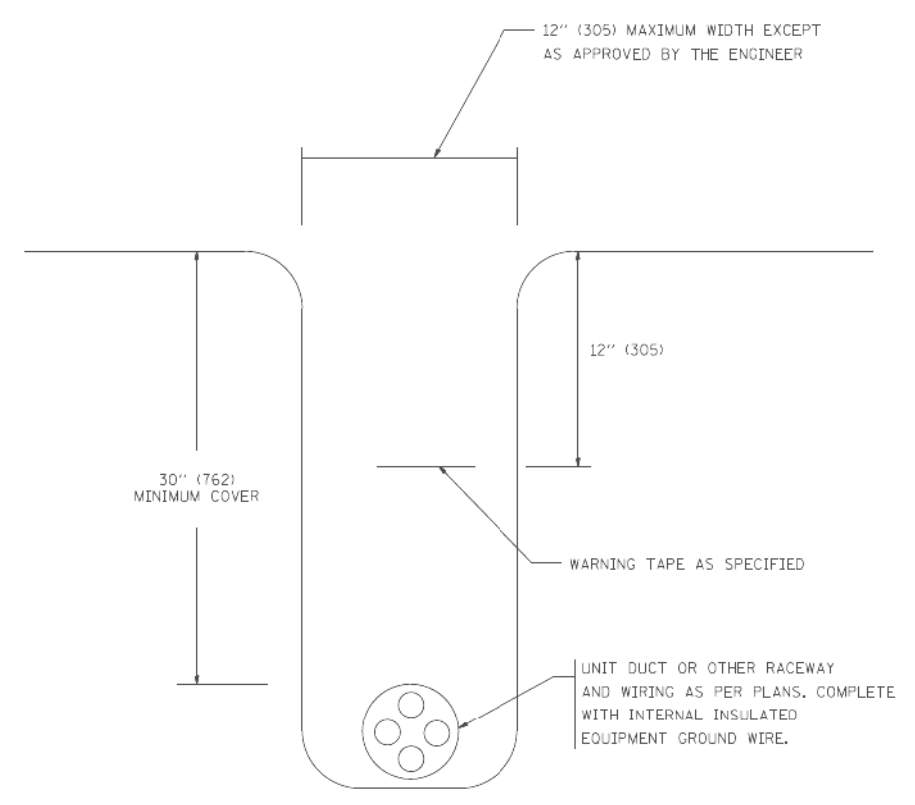


TYPICAL SPLICE DETAIL  
N.T.S.

NOTE THAT NUMBER OF CABLES IN SPLICE MAY VARY



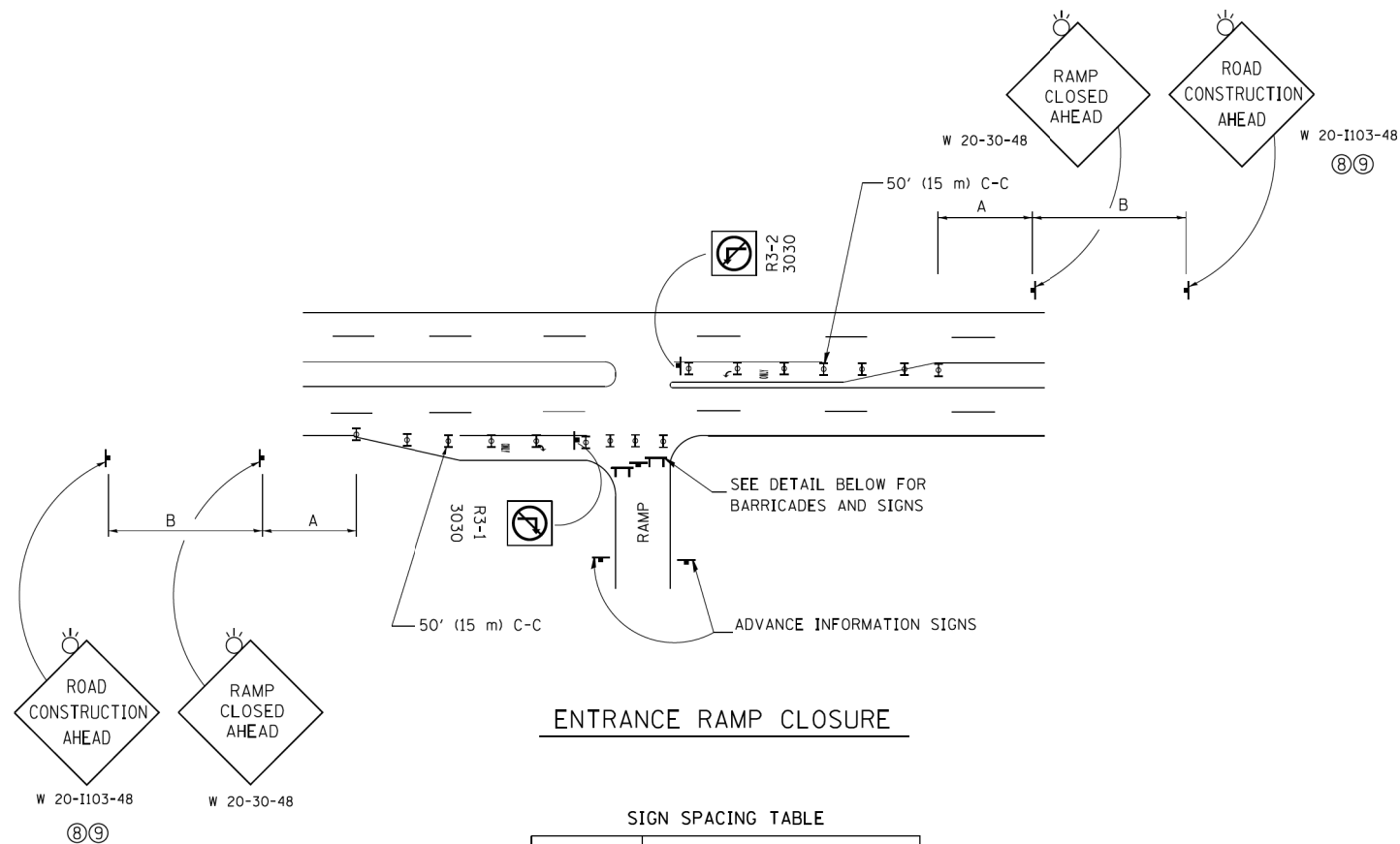
POLE WIRING DETAIL  
N.T.S.



TYPICAL WIRING IN TRENCH DETAIL  
N.T.S.

FILE NAME = W:\dststd\22\34\be782.dgn	USER NAME = gaglanobt	DESIGNED -	REVISED - 08-08-03	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>MISC. ELECTRICAL DETAILS SHEET A</b>			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = 1/4/2008	CHECKED -	REVISED -		FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT							
		DATE -	REVISED -									

	USER NAME = \$USER*	DESIGNED - HM	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>IDOT STANDARD DETAIL</b>			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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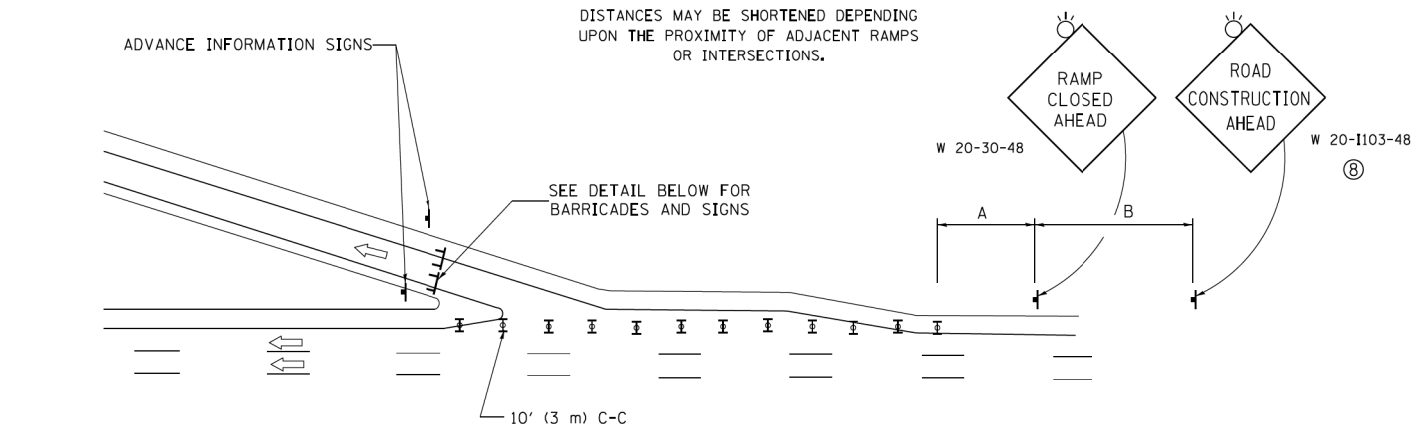


**ENTRANCE RAMP CLOSURE**

**SIGN SPACING TABLE**

FACILITY	DISTANCE BETWEEN SIGNS	
	A	B
EXPRESSWAY >24 HOURS	1000' (300 m)	1500' (450 m)
EXPRESSWAY ≤24 HOURS	500' (150 m)	500' (150 m)
ARTERIAL 55 MPH	500' (150 m)	500' (150 m)
ARTERIAL 50-45 MPH	350' (100 m)	350' (100 m)
ARTERIAL <45 MPH	200' (60 m)	200' (60 m)

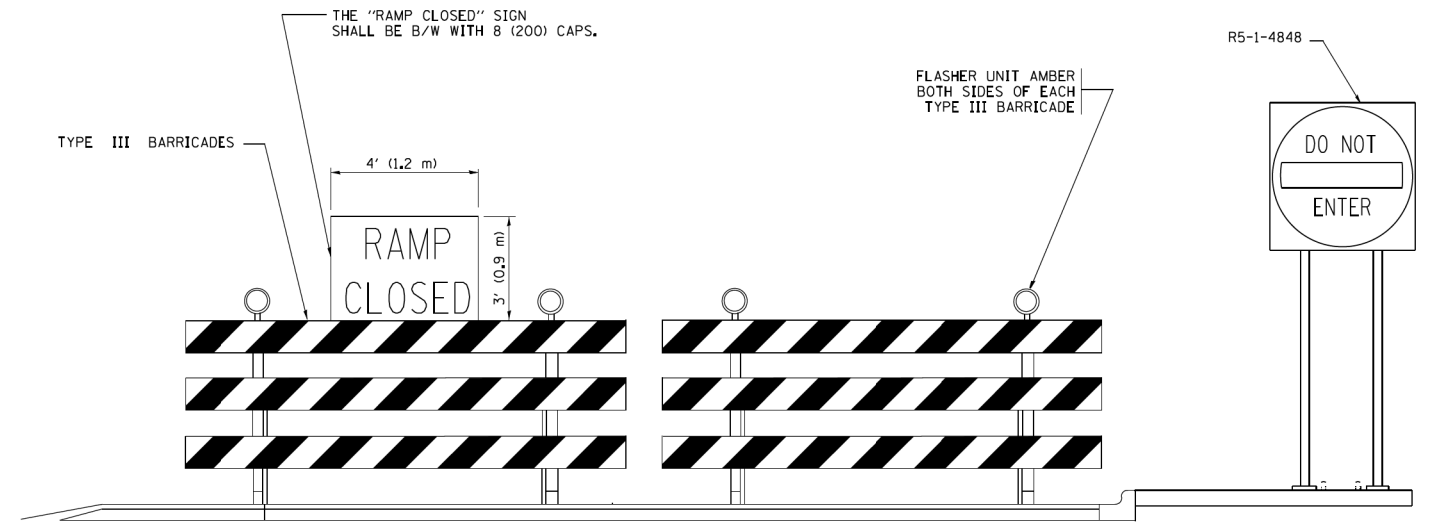
DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.



**EXIT RAMP CLOSURE**

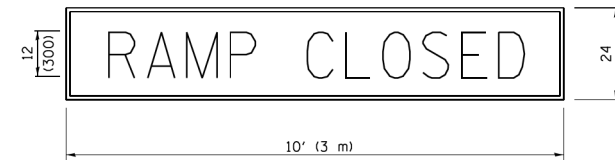
**SYMBOLS**

- ▬ TYPE II BARRICADE OR DRUM WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- ▬ TYPE III BARRICADE WITH 2 FLASHING LIGHTS



**DETAIL FOR REQUIRED BARRICADES & SIGNS**

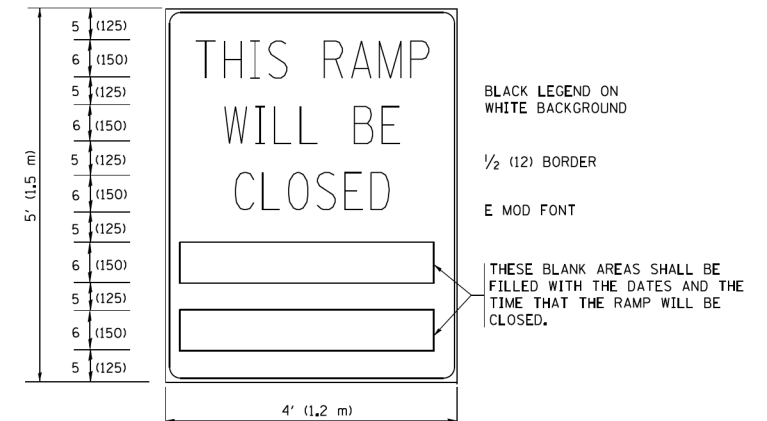
**RAMP CLOSURE ADVANCE WARNING SIGN**



BLACK LEGEND ON ORANGE BACKGROUND MOUNTED DIAGONALLY E MOD FONT 1 (25) BORDER

THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR EXIT RAMPS THAT WILL BE CLOSED FOR MORE THAN FOUR (4) CONSECUTIVE DAYS.

**RAMP CLOSURE ADVANCE INFORMATION SIGN**



BLACK LEGEND ON WHITE BACKGROUND

1/2 (12) BORDER

E MOD FONT

THESE BLANK AREAS SHALL BE FILLED WITH THE DATES AND THE TIME THAT THE RAMP WILL BE CLOSED.

THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.

THESE SIGNS SHALL BE FABRICATED AND PAID FOR ACCORDING TO THE TEMPORARY INFORMATION SIGNING SPECIAL PROVISION

**GENERAL NOTES:**

- ① CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
- ② STEADY BURN LIGHTS WILL NOT BE REQUIRED FOR DAY OPERATIONS.
- ③ A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES, PRECEDED BY A W20-7 FLAGGER WARNING SIGN.
- ④ ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED WHEN THE RAMP IS CLOSED FOR MORE THAN FOUR (4) DAYS.
- ⑤ THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
- ⑥ AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
- ⑦ THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED FOUR (4) DAYS IN LENGTH.
- ⑧ ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED WHEN THIS DETAIL IS USED IN CONJUNCTION WITH OTHER TRAFFIC CONTROL THAT ALREADY INCLUDES A ROAD CONSTRUCTION AHEAD SIGN.
- ⑨ ARTERIAL ROAD CONSTRUCTION AHEAD SIGNS SHALL BE INSTALLED ON THE LEFT SIDE OF TRAFFIC IF THE MEDIAN IS MORE THAN 10 FT WIDE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN. **CM-1**

CM-1-District 1 Detail TC08.dgn

FILE NAME =	USER NAME = footemj	DESIGNED - DWS	REVISED - JAF 02-06
ca:\pwork\pwork\footemj\d0108315\to08.dgn		DRAWN -	REVISED - SPB 01-07
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PLOT DATE = 7/8/2013		DATE - 02-83	REVISED - MD 06-13

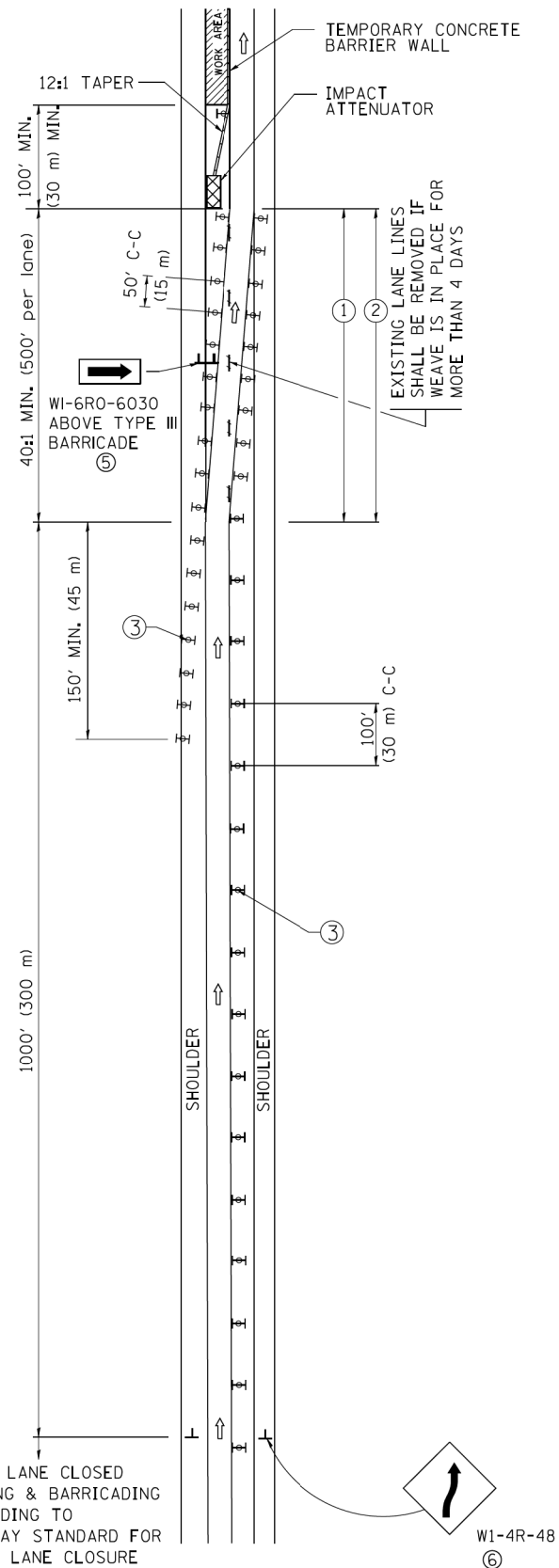
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ENTRANCE AND EXIT RAMP  
CLOSURE DETAILS**

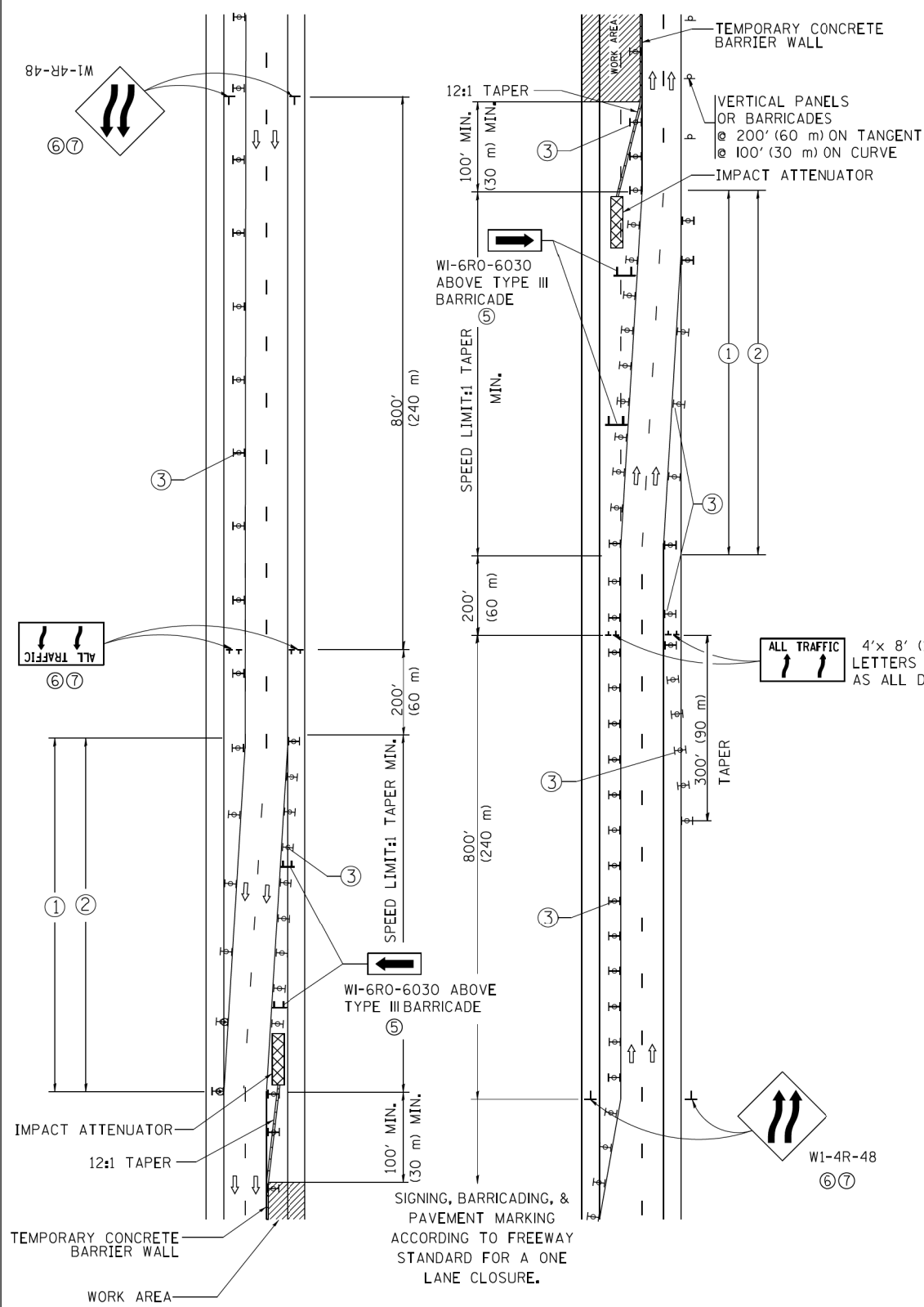
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2016-017L		88	68
TC-08		CONTRACT NO. 62C35		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

# SINGLE LANE WEAVE



# MULTI-LANE WEAVE



### GENERAL NOTES

- ① EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL NOT BE REQUIRED FOR SINGLE LANE WEAVES UNDER 4 DAYS IN DURATION.
- ② CONTINUOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) ALONG SIDE THE WORK AREA WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS. THE LEFT EDGE LINE SHALL BE YELLOW AND THE RIGHT EDGE LINE SHALL BE WHITE. FOR MULTI-LANE WEAVES LANE LINES SHALL BE 5 INCH, 10'-30' (3 m-9 m) SKIP DASH, WHITE.
- ③ PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.
- ④ ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- ⑤ TYPE III BARRICADES MAY BE OMITTED FOR SINGLE-LANE WEAVES UNDER 24-HOURS IN DURATION. W1-6 SIGNS WILL STILL BE REQUIRED. IF THE WIDTH OF OFFSET IS LESS THAN 6' THEN THE TYPE III BARRICADE WITH ATTACHED ARROW SIGN PANEL CAN BE ELIMINATED IN THE TAPER AREAS.
- ⑥ WHEN THE LENGTH OF THE SHIFTED SEGMENT (DISTANCE BETWEEN WEAVE POINTS) IS LESS THAN 1500', DOUBLE REVERSE CURVE SIGNS (W24-1) SHOULD BE USED INSTEAD OF THE REVERSE CURVE (W1-4) SIGNS. ARROWS ON THE 4'X8' "ALL TRAFFIC" SIGNS SHALL BE THE SAME SHAPE.
- ⑦ THE NUMBER OF ARROWS ON THESE SIGNS SHALL MATCH THE NUMBER OF LANES OPEN TO TRAFFIC.

### SYMBOLS

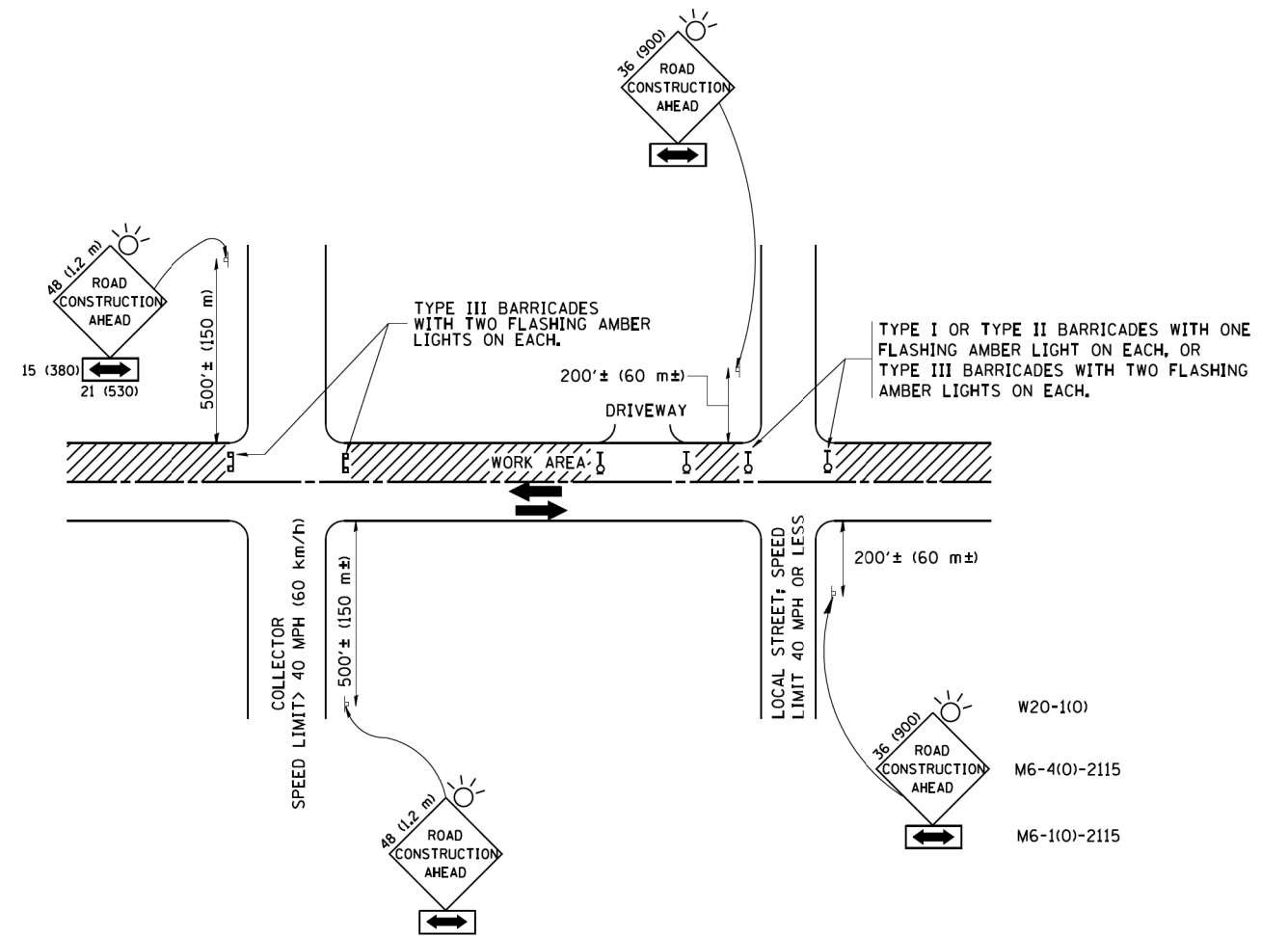
- DIRECTION OF TRAFFIC
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE II BARRICADE OR DRUM WITH MONO-DIRECTIONAL STEADY BURNING LIGHT
- TEMPORARY CONCRETE BARRIER WALL
- IMPACT ATTENUATOR
- W1-4R-48
- W24-1-48

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

CM-2

CM 2-Dist-1 Detail TC09 .dgn

FILE NAME =	USER NAME = footemj	DESIGNED - DWS	REVISED - JAF 02-06	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE &amp; MULTI-LANE WEAVE</b>			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca:\p\work\p\dot\Footemj\d0108315\td09.dgn	DRAWN -	REVISED - SPB 01-07	VAR.					2016-017L		88	69	
PLOT SCALE = 50.000' / in.	CHECKED -	REVISED - SPB 12-09	<b>TC-09</b>					CONTRACT NO. 62C35				
PLOT DATE = 7/1/2013	DATE - 02-87	REVISED - MD 06-13	SCALE: NONE					SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		



## TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

### NOTES:

#### A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

a) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.

b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.

2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

a) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.

b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.

3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

#### B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.

D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in millimeters (inches) unless otherwise shown. **CM-3**

FILE NAME = W:\diststd\22x34\tdl0.dgn	USER NAME = gaglianobt	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95
		DRAWN -	REVISED - A. HOUSEH 03-06-96
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 1/4/2008	DATE - 06-89	REVISED - T. RAMMACHER 01-06-00

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

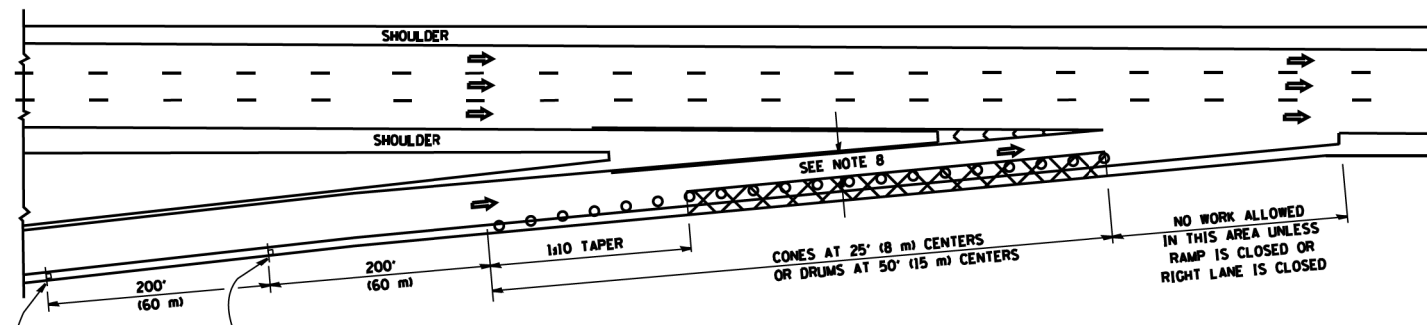
TRAFFIC CONTROL AND PROTECTION FOR  
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

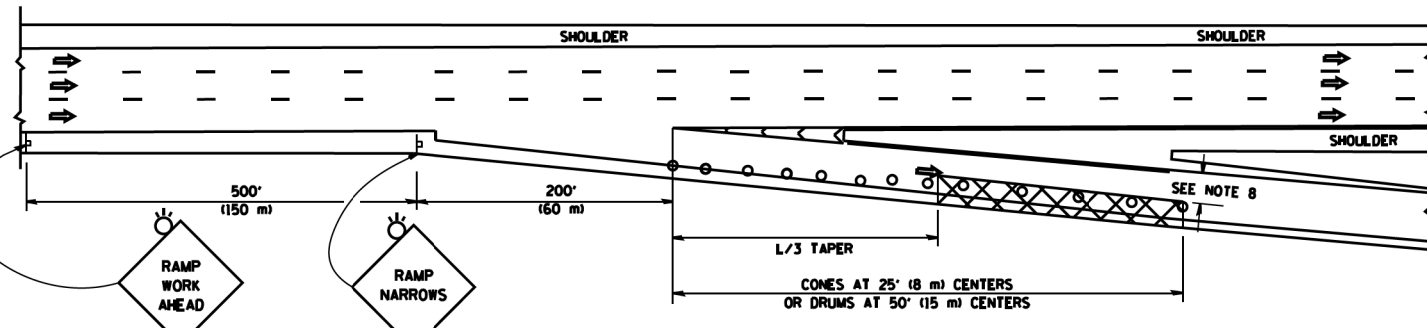
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2016-017L		88	70
TC-10		CONTRACT NO. 62C35		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

**PARTIAL RAMP CLOSURE DETAILS**

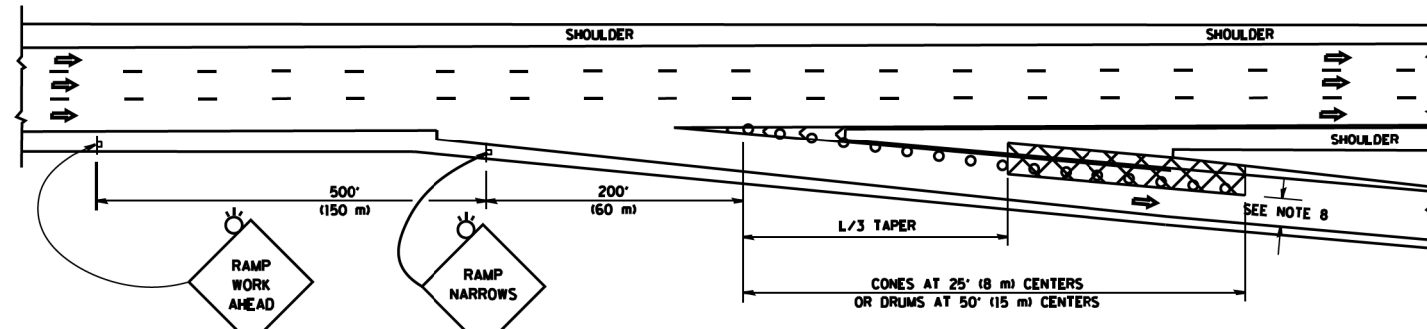
**SHOULDER CLOSURE DETAILS**



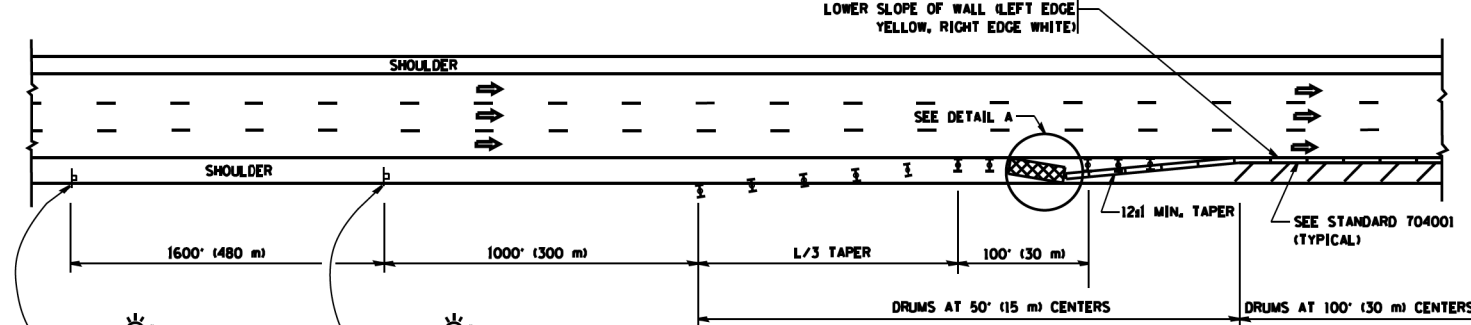
**TYPICAL ENTRANCE RAMP**



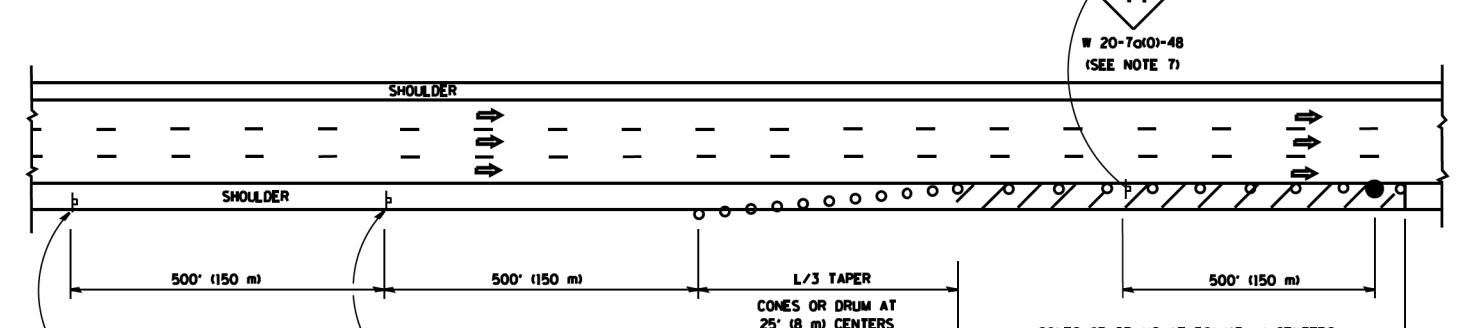
**TYPICAL EXIT RAMP**



**TYPICAL EXIT RAMP**



**PERMANENT SHOULDER CLOSURE**



**DAYTIME SHOULDER CLOSURE**

THIS DETAIL IS USED WHERE:  
 1. VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCR OACH IN AN AREA CLOSER THAN 15' (4.5 m) TO THE EDGE OF PAVEMENT FOR A PERIOD IN EXCESS OF 15 MINUTES.



ARRAY DESIGN PER MANUFACTURER TO BE NCHRP 350/MASH COMPLIANT.

**DETAIL "A" IMPACT ATTENUATOR, TEMPORARY (SEE NOTE 5)**

**SYMBOLS**

- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE OR DRUM WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

**GENERAL NOTES**

1. THE "L" DISTANCE EQUALS:
 

SPEED LIMIT	FORMULAS
45 mph (80 km/h) OR GREATER	METRIC ENGLISH L=0.65(WNS) L=(WNS)
W = WIDTH OF OFFSET IN FEET (METERS)	
S = NORMAL POSTED SPEED MPH (KM/H)	
2. PLASTIC DRUMS WITH HIGH PERFORMANCE REFLECTIVE SHEETING AND STEADY BURNING LIGHTS ARE REQUIRED FOR ALL NIGHTIME CLOSURES.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.
5. THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE NARROW USE TYPE DEVICE TO MEET NCHRP350/MASH.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
7. THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
  - a. FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
  - b. THE WORK ACTIVITY REQUIRES FREQUENT ENCR OACHMENT INTO THE LANE OPEN TO TRAFFIC.
 THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.
8. 12' MIN. WIDTH TANGENT SECTION  
16' MIN. WIDTH CURVE SECTION.

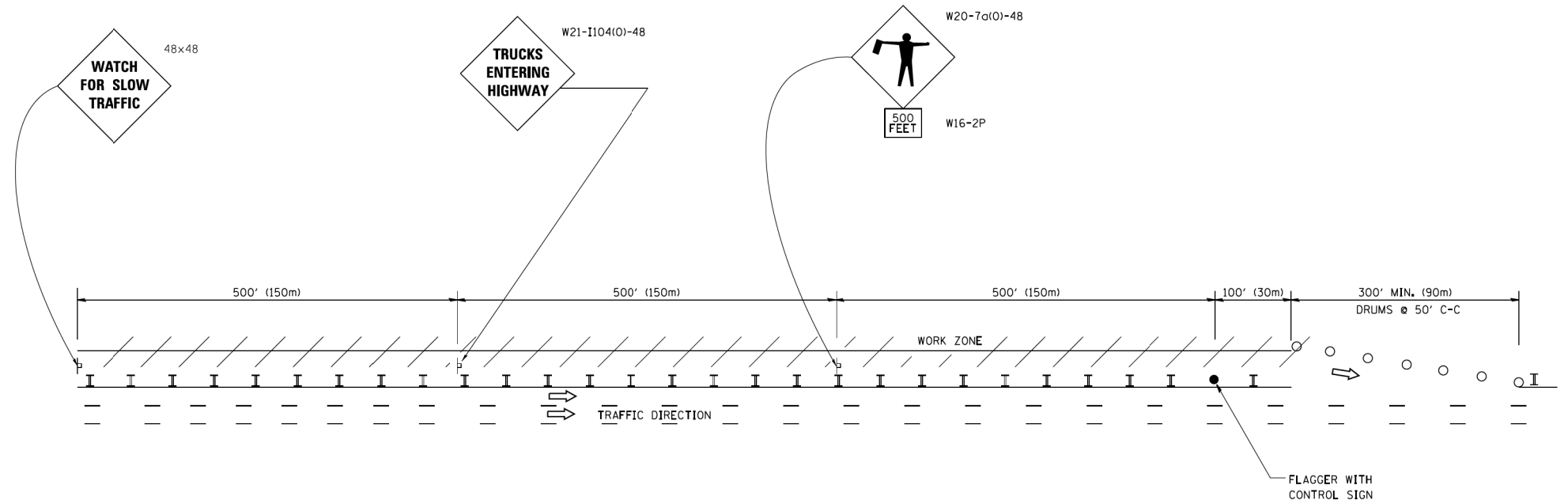
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

CM 4-Dist-1.ctb 1 Detail TC17.dgn

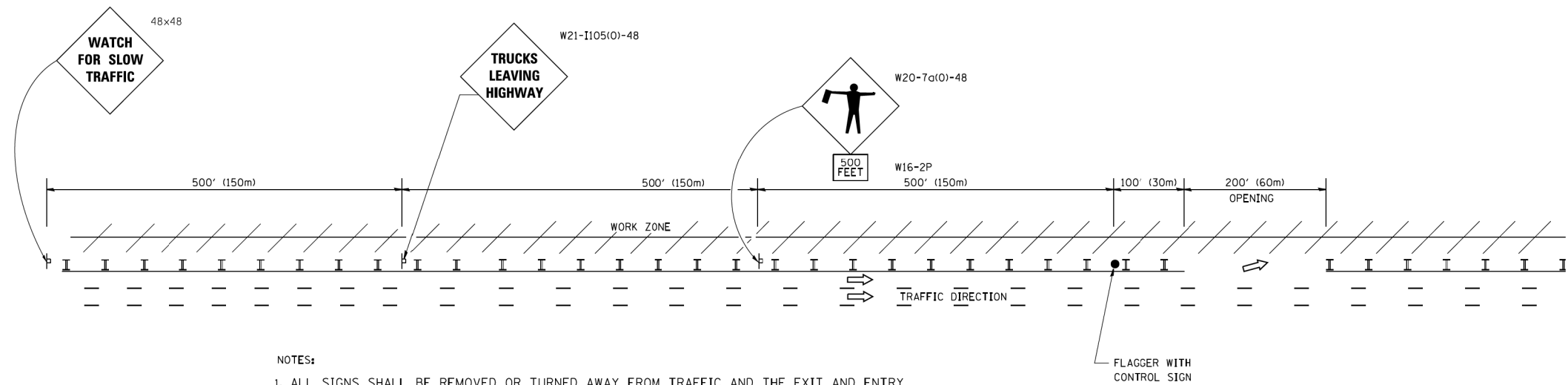
FILE NAME =	USER NAME = lveysa	DESIGNED -	REVISED - J.A.F. 12-06	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
es:\pwork\pwork\lveysa\0108315\tcl7.dgn		DRAWN - D.W.S.	REVISED - S.P.B. 01-07		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	VAR.	2016-017L		88	71
		CHECKED -	REVISED - S.P.B. 12-09						TC-17				
		DATE - 11-96	REVISED - M.D. 06-13						FED. ROAD DIST. NO. 1	ILLINOIS FED. AID PROJECT			CONTRACT NO. 62C35

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

WORK ZONE EXIT OPENING



WORK ZONE ENTRY OPENING



NOTES:

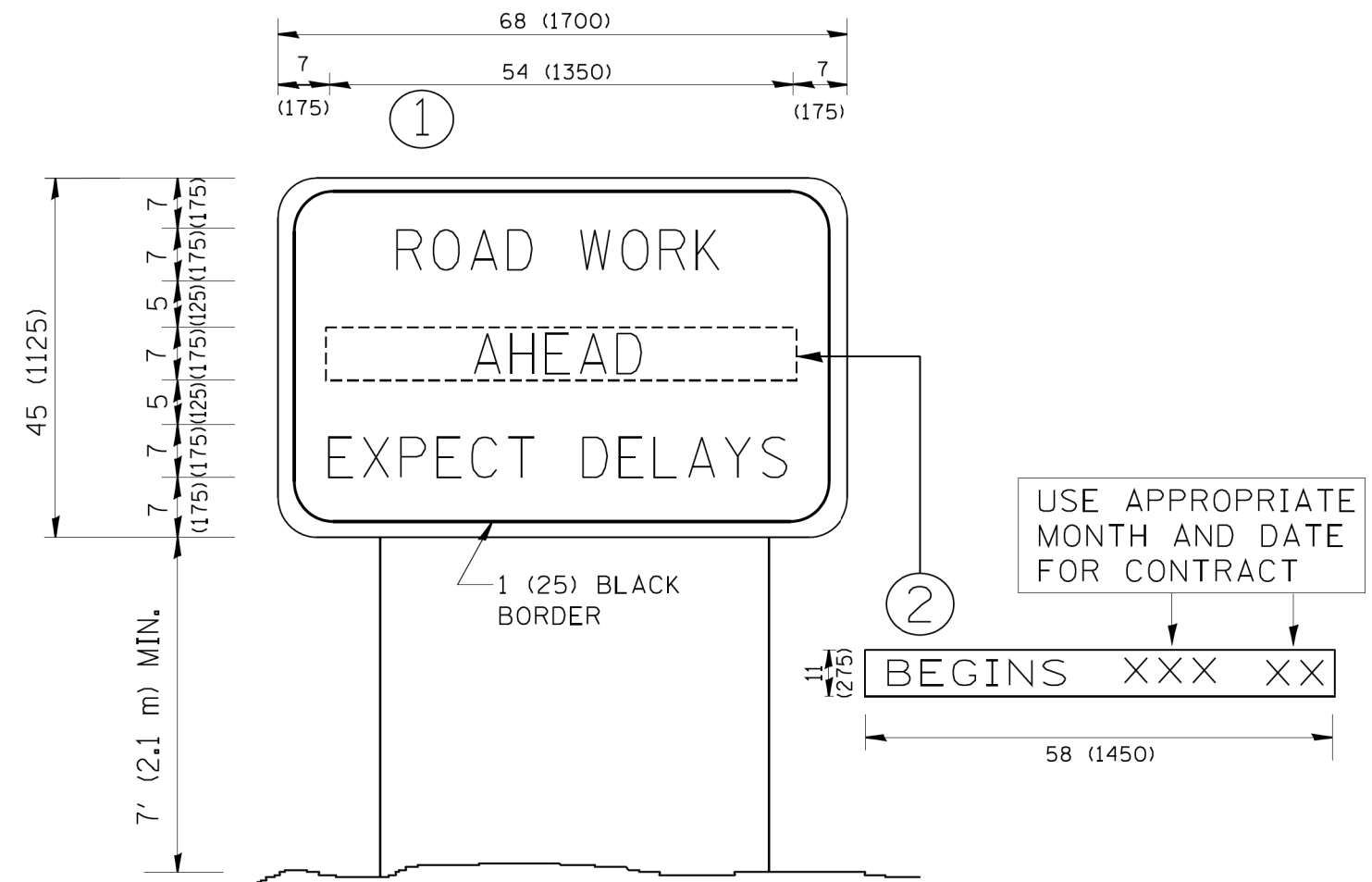
1. ALL SIGNS SHALL BE REMOVED OR TURNED AWAY FROM TRAFFIC AND THE EXIT AND ENTRY OPENINGS SHALL BE CLOSED WHEN THE FLAGGING OPERATION CEASES. NON OPERATING EQUIPMENT SHALL COMPLY WITH ARTICLE 701.11
2. WORK ZONE OPENINGS SHALL BE A MINIMUM OF ONE HALF MILE APART AND A MINIMUM OF ONE QUARTER MILE FROM ALL ENTRANCE AND EXIT RAMP.
3. EXITING THE WORK ZONE AT ANY PLACE OTHER THAN AT A WORK ZONE EXIT OPENING WILL BE PROHIBITED.
4. ALL VEHICLES SHALL ENTER THE WORK ZONE AT ENTRY OPENINGS, USING THEIR TURN SIGNALS TO WARN MOTORISTS
5. FLAGGERS SHALL NOT STOP TRAFFIC OR DIRECT TRAFFIC INTO AN ADJACENT LANE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN **CM-5**

CM 5-Dist-1.ctb 1 Detail TC2Bdgn

FILE NAME =	USER NAME = footemj	DESIGNED -	REVISED - J.A.F. 02-06	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>FREEWAY/EXPRESSWAY SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS ON FREEWAYS/EXPRESSWAYS</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca:\pwork\pwork\footemj\d0108315\tcl18.dgn	DRAWN -	REVISED - S.P.B. 01-07	VAR.			2016-017L		88	72	
PLOT SCALE = 50.000' / in.	CHECKED -	REVISED - S.P.B. 12-09	<b>TC-18</b>			<b>CONTRACT NO. 62C35</b>				
PLOT DATE = 7/8/2013	DATE -	REVISED - M.D. 06-13	FED. ROAD DIST. NO. 1			ILLINOIS FED. AID PROJECT				
				SCALE: NONE		SHEET NO. 1 OF 1 SHEETS		STA. TO STA.		





**NOTES:**

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

CM-6

CM 6-Dist-1 Detail TC22.dgn

FILE NAME = W:\distatd\22x34\tc22.dgn	USER NAME = geglano	DESIGNED -	REVISED - R. MIRS 09-15-97
		DRAWN -	REVISED - R. MIRS 12-11-97
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

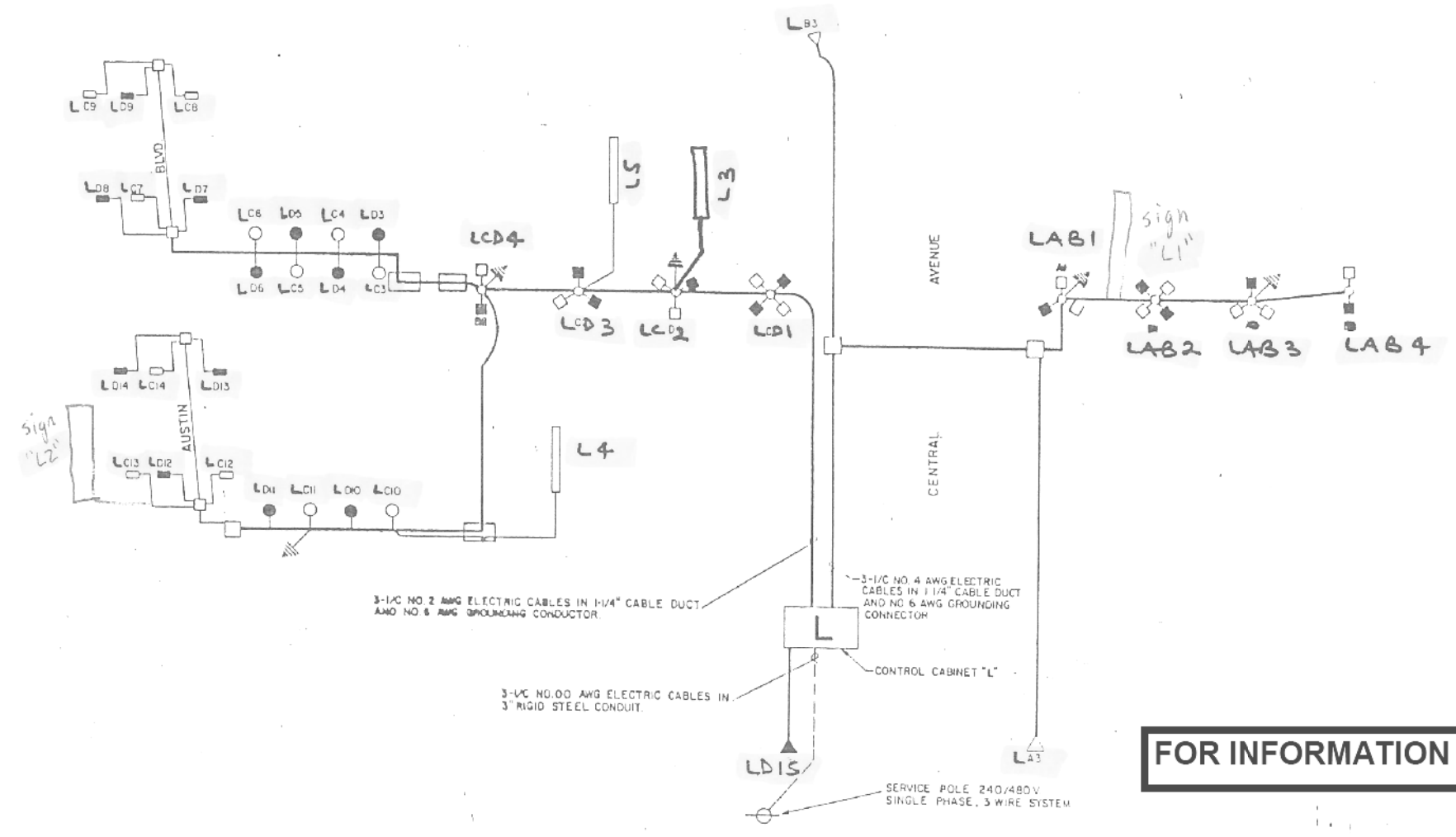
ARTERIAL ROAD  
INFORMATION SIGN

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2016-017L		88	73
TC-22			CONTRACT NO. 62C35	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 290	4	COOK	246	160
STA.	TO STA.			
I.D. ROAD DIST. NO. 7		ILLINOIS PROJECT	IR-1260-5	
4 2831-R180				

- SYMBOLS**
- 3-1/2" NO. 4 AWG ELECTRIC CABLES IN 1 1/4" CABLE DUCT AND NO. 6 AWG GROUNDING CONDUCTOR (OR AS NOTED OTHERWISE)
  - 3-1/2" NO. 10 AWG ELECTRIC CABLES IN 1" CONDUIT
  - 400 WIPS, M-C-111, LUMINAIRE ON RED CABLE
  - 400 WIPS, M-C-111, LUMINAIRE ON BLACK CABLE
  - △ 200 WIPS, M-C-111, LUMINAIRE ON RED CABLE
  - ▲ 200 WIPS, M-C-111, LUMINAIRE ON BLACK CABLE
  - 55 WIPS, UNDERPASS LUMINAIRE ON RED CABLE
  - 55 WIPS, UNDERPASS LUMINAIRE ON BLACK CABLE
  - JUNCTION BOX FOR UNDERPASS LUMINAIRES 12" X 6" X 6"
  - JUNCTION BOX FOR UNDERGROUND DISTRIBUTION 18" X 18" X 10"
  - PULL BOX IN BARRIER WALL 18" X 8" X 8"
  - LIGHTED SIGN PANEL WITH 3-1/2" NO. 4 AWG ELECTRIC CABLES IN 1 1/4" CABLE DUCT AND NO. 6 AWG GROUNDING CONDUCTOR
  - ⏚ GROUND ROD



**FOR INFORMATION ONLY**

REVISIONS	
NAME	DATE
CDC	10/83

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 EISENHOWER EXPRESSWAY  
 LIGHTING  
 WIRING DIAGRAM FOR CONTROL CABINET "L" AT CENTRAL AVE.  
 SCALE \_\_\_\_\_ DRAWN BY LRS  
 DATE \_\_\_\_\_ CHECKED BY RLS

L 1355



USER NAME = *USER*	DESIGNED - HM	REVISED -
	DRAWN - GJ	REVISED -
PLOT SCALE = *SCALE*	CHECKED - HS	REVISED -
PLOT DATE = *DATE*	DATE - 03-21-2017	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

I-290 AT CENTRAL AVE. INFORMATION ONLY SHEET			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2016-017L		88	74
				CONTRACT NO. 62C35
ILLINOIS FED. AID PROJECT				



**LEGEND**

- UNDERPASS LUMINAIRE: 55 WATT, LOW PRESSURE SODIUM
- JUNCTION BOX 12" X 4" X 6" ATTACHED TO STRUCTURE
- JUNCTION BOX 18" X 18" X 10" ATTACHED TO STRUCTURE
- 1-1/4" DIA CABLE DUCT WITH 3-1/2" TYPE 3HW ELECTRIC CABLES (SIZE AS NOTED ON THE PLANS), AND NO. 6 AWG BARE GROUNDING CONDUCTOR IN TRENCH.
- 2 1/2" RIGID STEEL CONDUIT, 2 1/2" DIA., PUSHED UNDER EXISTING ROADWAY
- 2 1/2" RIGID STEEL CONDUIT, 2 1/2" DIA., IN TRENCH
- 2 1/2" PVC CONDUIT ATTACHED TO STRUCTURE
- KAKO POLE MEMBERING DECAL: K - CONTROL CABINET DESIGNATION  
A - CIRCUIT DESIGNATION  
10 - LUMINAIRE SEQUENCE
- R LUMINAIRE CONNECTED TO AID PHASE WIRE
- B LUMINAIRE CONNECTED TO BLACK PHASE WIRE
- FOR A NO FOUNDATION SYMBOL SHOWN INDICATES FOUNDATION TYPE A
- FOR B FOUNDATION TYPE B
- FOR C FOUNDATION TYPE C

LIGHTING UNIT AND BARRIER WALL FOUNDATION:  
47.5 FT. MOUNTING HEIGHT, 6 FT. MAST ARM, 400 WATT HIGH PRESSURE SODIUM, M-C-111, LUMINAIRE

4" PVC RACEWAY IN BARRIER WALL WITH 3-1/2" TYPE 3HW ELECTRIC CABLES (SIZE AS NOTED ON THE PLANS) IN 1-1/4" CABLE DUCT AND NO. 6 AWG BARE GROUNDING CONDUCTOR

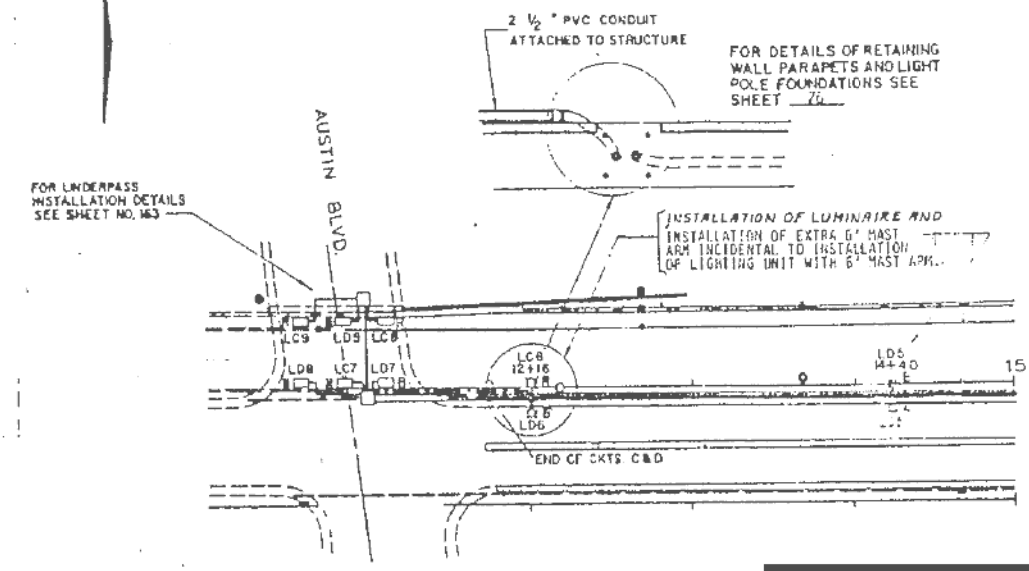
LIGHTING UNIT AND BARRIER WALL FOUNDATION:  
47.5 FT. MOUNTING HEIGHT, 6 FT. MAST ARM, 400 WATT HIGH PRESSURE SODIUM, M-C-111, LUMINAIRE

4" PVC RACEWAY IN BARRIER WALL WITH 3-1/2" TYPE 3HW ELECTRIC CABLES (SIZE AS NOTED ON THE PLANS) IN 1-1/4" CABLE DUCT AND NO. 6 AWG BARE GROUNDING CONDUCTOR

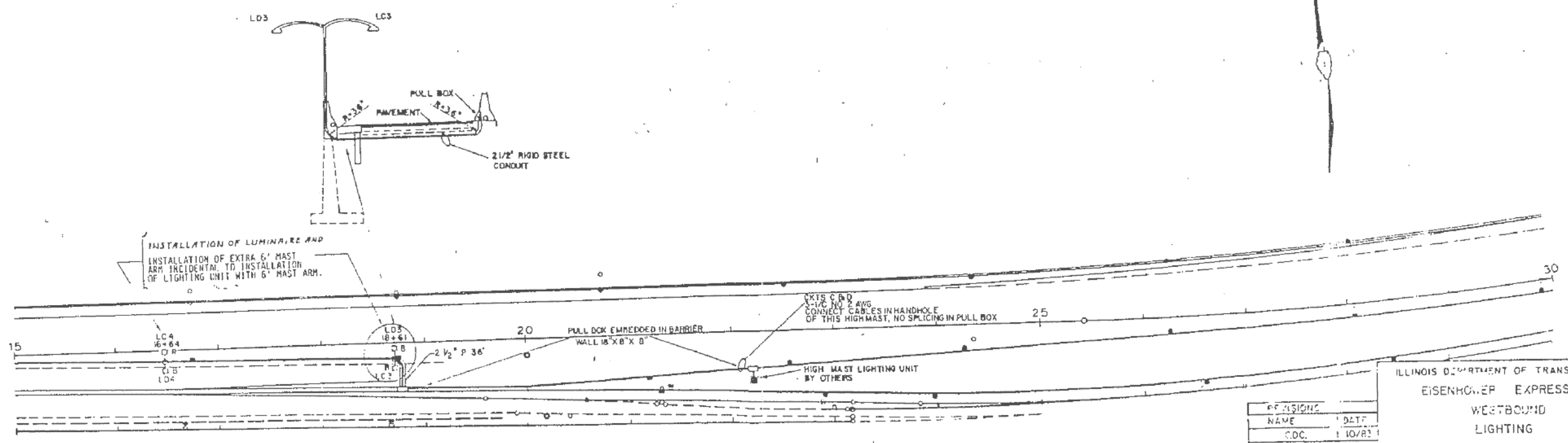
WELDED 42 FT. MOUNTING HEIGHT POLE SHAFT AND ARM, PROPOSED 200 WATT HIGH PRESSURE SODIUM, M-C-111 LUMINAIRE, BREAKAWAY DEVICE AND FOUNDATION.

LIGHTING UNIT AND FOUNDATION: 47.5 FT. MOUNTING HEIGHT, 15 FT. MAST ARM, 400 WATT HIGH PRESSURE SODIUM, M-C-111, LUMINAIRE, BREAKAWAY DEVICE

JUNCTION BOX 18" X 18" X 10" EMBEDDED IN BARRIER WALL



**FOR INFORMATION ONLY**



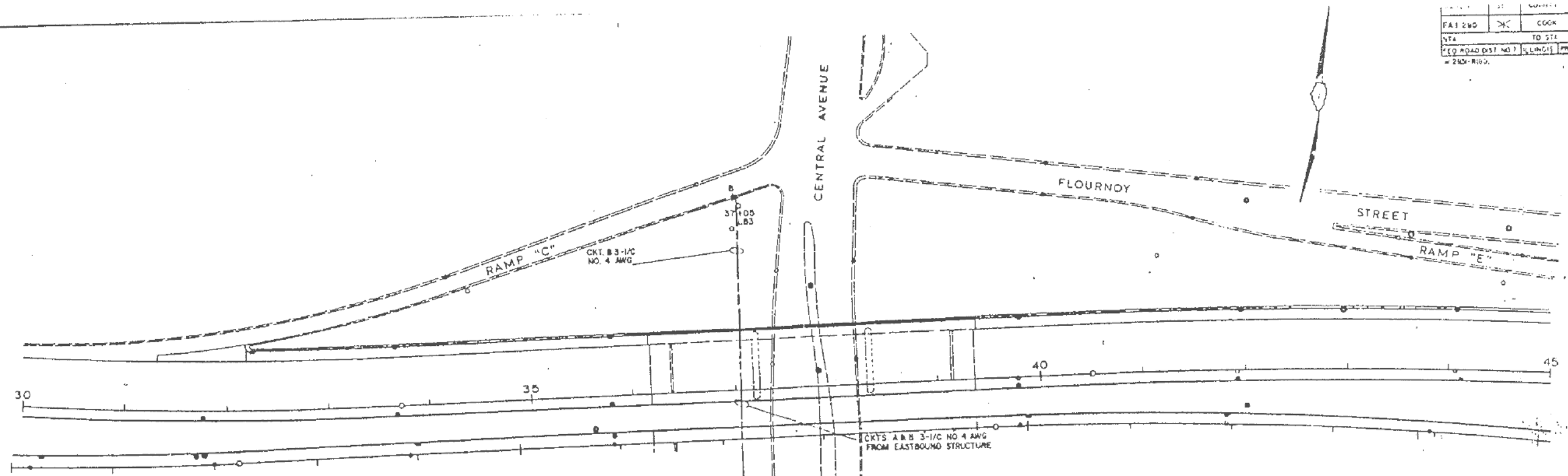
ILLINOIS DEPARTMENT OF TRANSPORTATION  
EISENHOWER EXPRESSWAY  
WESTBOUND  
LIGHTING

REVISION	NAME	DATE

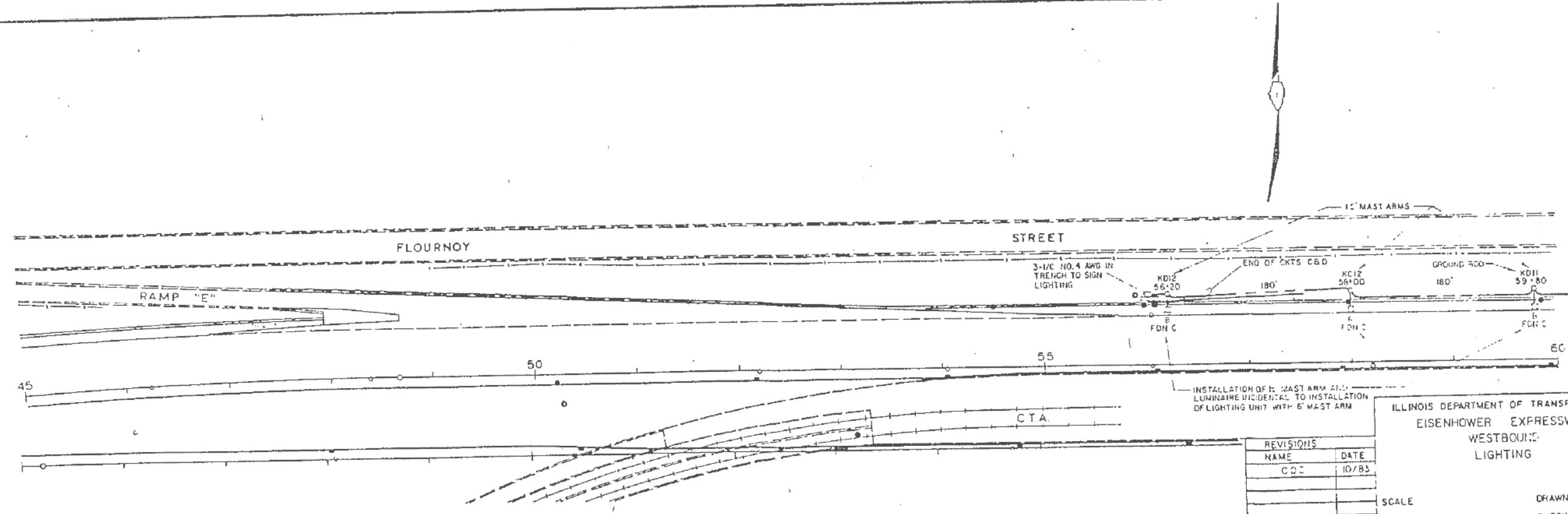
SCALE: \_\_\_\_\_ DRAWN BY: J.R.S.  
DATE: \_\_\_\_\_ CHECKED BY: P.L.P.

STA 10+87.94 TO STA 20+00

FAI 2ND	COCK	24G	151
TO STA			
EQ ROAD DIST NO	PROJECT	18-1-2016	
W 2ND RD			



**FOR INFORMATION ONLY**



REVISIONS	
NAME	DATE
CDC	10/83

ILLINOIS DEPARTMENT OF TRANSPORTATION  
EISENHOWER EXPRESSWAY  
WESTBOUND  
LIGHTING

SCALE \_\_\_\_\_ DRAWN BY LRC  
DATE \_\_\_\_\_ CHECKED BY RL1

STA 30+00 TO STA 60+00

PLAN  
DATE: 03-21-2017  
SCALE: AS SHOWN

PLAN  
DATE: 03-21-2017  
SCALE: AS SHOWN



USER NAME = #USER#	DESIGNED - HM	REVISED -
	DRAWN - GJ	REVISED -
PLOT SCALE = #SCALE#	CHECKED - HS	REVISED -
PLOT DATE = #DATE#	DATE - 03-21-2017	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

I-290 AT CENTRAL AVE.  
INFORMATION ONLY SHEET

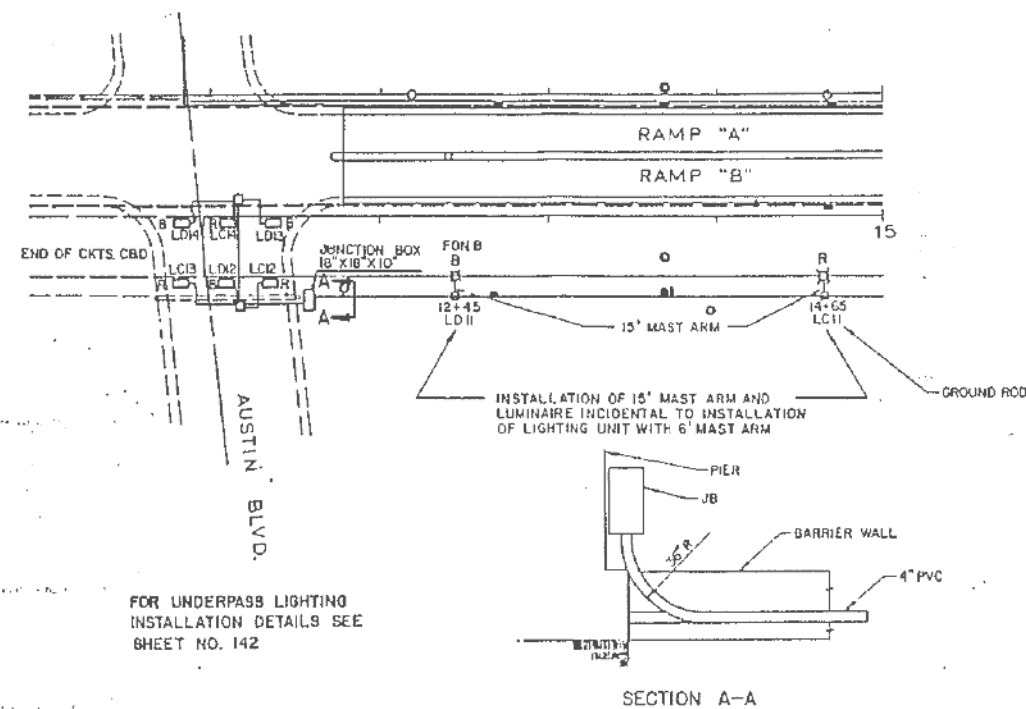
SCALE: \_\_\_\_\_ SHEET \_\_\_\_\_ OF \_\_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2016-017L		88	77
			CONTRACT NO. 62C35	
ILLINOIS FED. AID PROJECT				

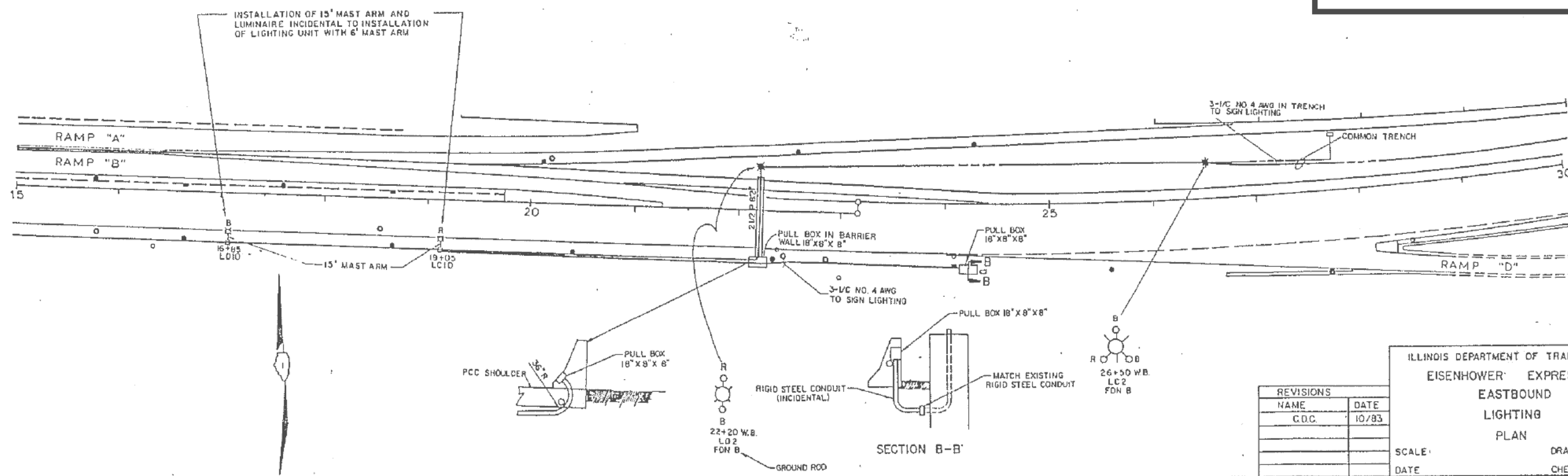
ROUTE NO	SEC	COUNTY	TOTAL SHEETS	SHEET NO
1-290	*	COOK	221	129
STA	TO STA			
FED ROAD DIST NO 7	ILLINOIS PROJECT	*1977-241-R		

**LEGEND**

- HIGH MOUNT LIGHTING UNIT AND FOUNDATION: 100 FT. MOUNTING HEIGHT, 1,000 WATT HIGH PRESSURE SODIUM, H-C-111, LUMINAIRE, NUMBER OF LUMINAIRES AS NOTED IN THE PLANS
- LIGHTING UNIT AND BARRIER WALL FOUNDATION: 47.5 FT. MOUNTING HEIGHT, 6 FT. MAST ARM, 400 WATT HIGH PRESSURE SODIUM, H-C-111, LUMINAIRE
- 4" PVC RACEWAY IN BARRIER WALL WITH 3-1/2 TYPE RHW ELECTRIC CABLES (SIZE AS NOTED ON THE PLANS) IN 1-1/4" CABLE DUCT AND NO. 6 AWG BARE GROUNDING CONDUCTOR
- RELOCATED 42 FT. MOUNTING HEIGHT POLE SHAFT AND ARM, PROPOSED 200 WATT HIGH PRESSURE SODIUM, H-C-111, LUMINAIRE, BREAKAWAY DEVICE AND FOUNDATION.
- LIGHTING UNIT AND FOUNDATION: 47.5 FT. MOUNTING HEIGHT, 15 FT. MAST ARM, 400 WATT HIGH PRESSURE SODIUM, H-C-111, LUMINAIRE, BREAKAWAY DEVICE
- 1,000 WATT HIGH PRESSURE SODIUM LUMINAIRE, H-C-111
- JUNCTION BOX 18"x 8"x 8" ENCLOSED IN BARRIER WALL
- UNDERPASS LUMINAIRE: 55 WATT, LOW PRESSURE SODIUM
- JUNCTION BOX 12" X 4" X 6" ATTACHED TO STRUCTURE
- JUNCTION BOX 18" X 18" X 10" ATTACHED TO STRUCTURE
- 1-1/4" DIA CABLE DUCT WITH 3-1/2 TYPE RHW ELECTRIC CABLES, (SIZE AS NOTED ON THE PLANS), AND NO. 6 AWG BARE GROUNDING CONDUCTOR, IN TRENCH.
- 2 1/2" RIGID STEEL CONDUIT, 2 1/2" DIA., PUSHED UNDER EXISTING ROADWAY
- 2 1/2" RIGID STEEL CONDUIT, 2 1/2" DIA., IN TRENCH
- 2 1/2" PVC CONDUIT ATTACHED TO STRUCTURE
- KAIO POLE MOUNTING DECAL: A - CONTROL CABINET DESIGNATION  
 10 - LUMINAIRE SEQUENCE
- R LUMINAIRE CONNECTED TO RED PHASE WIRE
- B LUMINAIRE CONNECTED TO BLACK PHASE WIRE
- FDN A NO FOUNDATION SYMBOL SHOWN INDICATES FOUNDATION TYPE A
- FDN B FOUNDATION TYPE B
- FDN C FOUNDATION TYPE C



**FOR INFORMATION ONLY**

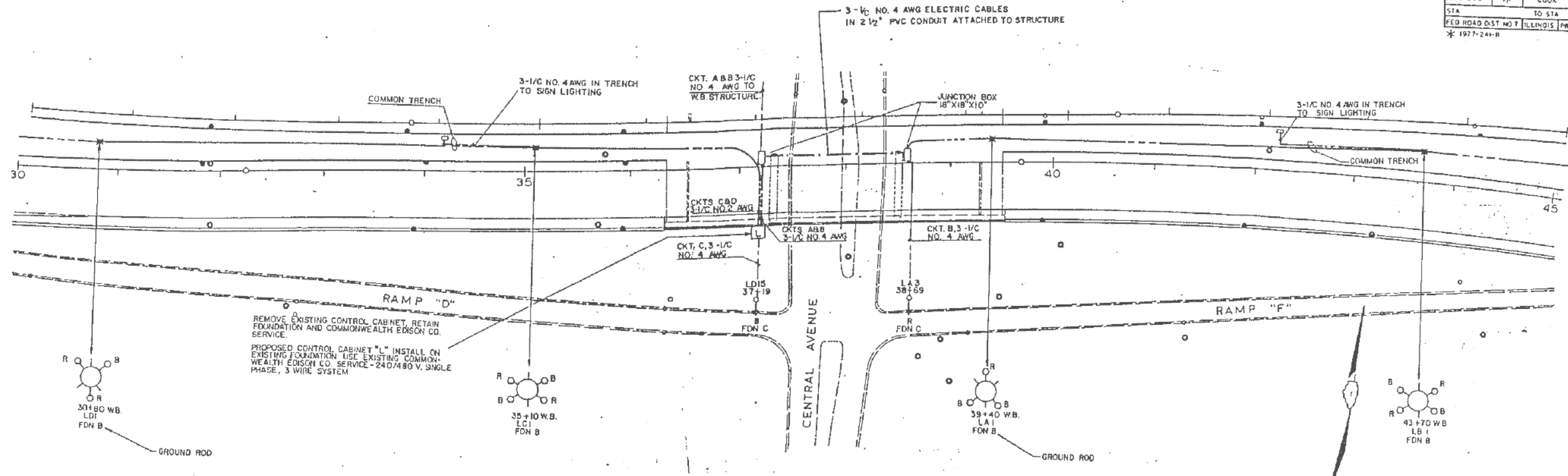


REVISIONS	
NAME	DATE
C.D.C.	10/83

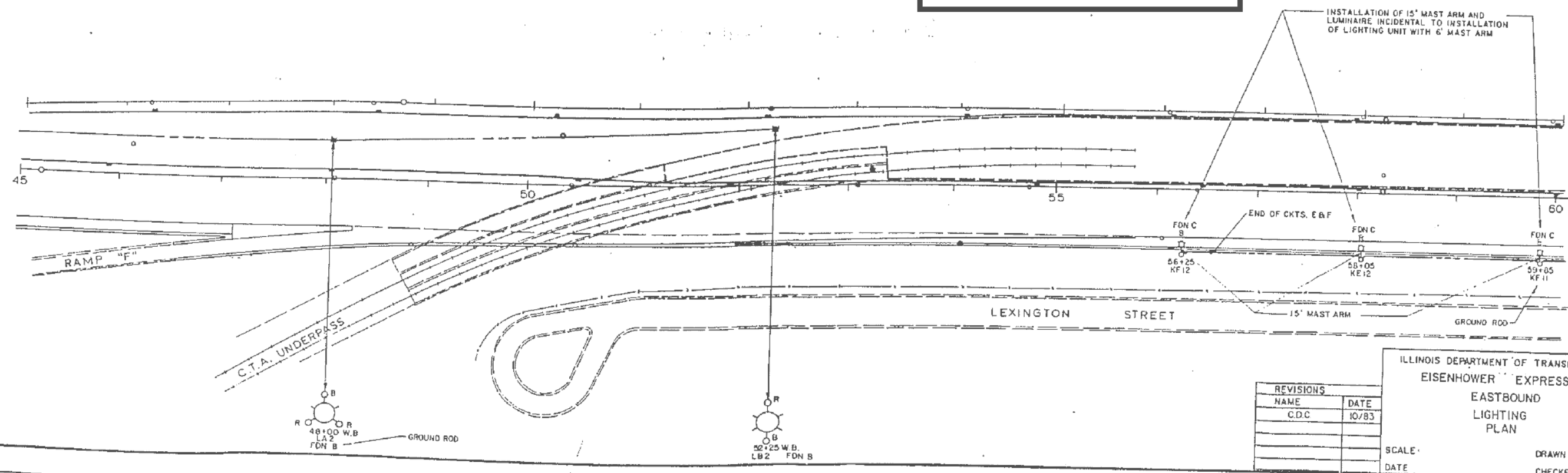
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 EISENHOWER EXPRESSWAY  
 EASTBOUND  
 LIGHTING  
 PLAN  
 SCALE: DRAWN BY LRS  
 DATE: CHECKED BY RLP

STA 10+95.03 TO STA. 30+00

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 290	*	COOK	221	130
STA.	TO STA.			
FED. ROAD DIST. NO. 7 ILLINOIS PROJECT				
* 1977-241-R				



**FOR INFORMATION ONLY**



REVISIONS	
NAME	DATE
C.D.C.	10/83

ILLINOIS DEPARTMENT OF TRANSPORTATION  
EISENHOWER EXPRESSWAY  
EASTBOUND  
LIGHTING PLAN

SCALE: \_\_\_\_\_  
DATE: \_\_\_\_\_

DRAWN BY L.R.S.  
CHECKED BY R.L.P.

STA. 30+00 TO 60+00



USER NAME = *USER*	DESIGNED - HM	REVISED -
PLOT SCALE = *SCALE*	DRAWN - GJ	REVISED -
PLOT DATE = *DATE*	CHECKED - HS	REVISED -
	DATE - 03-21-2017	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

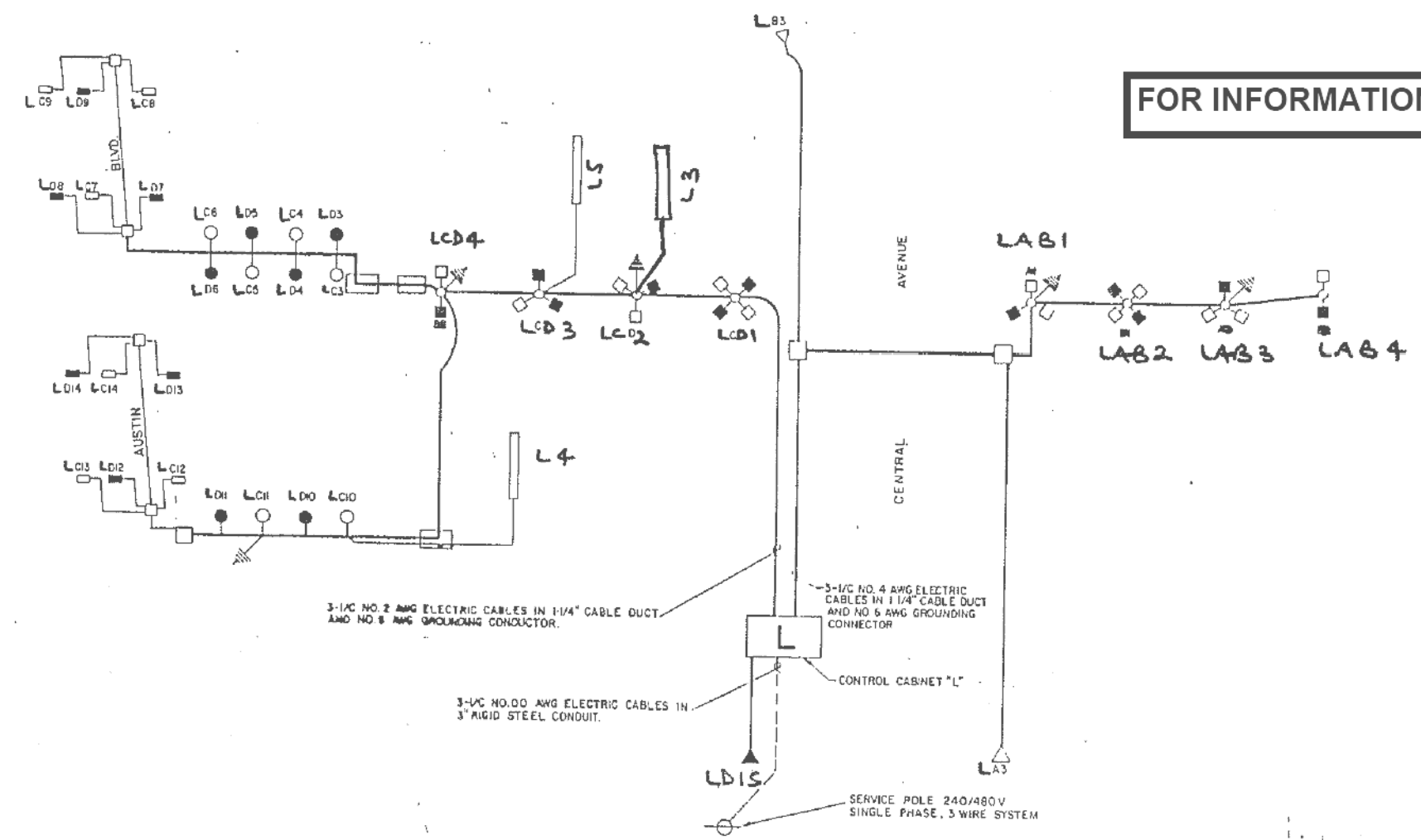
I-290 AT CENTRAL AVE. INFORMATION ONLY SHEET			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2016-017L		88	79
CONTRACT NO. 62C35				
ILLINOIS FED. AID PROJECT				

ROUTE NO	SEC	COUNTY	TOTAL SHEETS	SHEET NO
FAI 290	7	COOK	246	160
STA	TO STA			
LED ROAD DIST NO 7 ILLINOIS PROJECT JK-1290-4				
# 2831-R180				

**FOR INFORMATION ONLY**

- SYMBOLS**
- 3-1/2" NO. 4 AWG ELECTRIC CABLES IN 3 1/4" CABLE DUCT AND NO. 6 AWG GROUNDING CONDUCTOR (OR AS NOTED OTHERWISE)
  - 3-1/2" NO. 10 AWG ELECTRIC CABLES IN 1" CONDUIT
  - 400 MHPS, M-C-111, LUMINAIRE ON RED CABLE
  - 400 MHPS, M-C-111, LUMINAIRE ON BLACK CABLE
  - △ 200 MHPS, M-C-111, LUMINAIRE ON RED CABLE
  - ▲ 200 MHPS, M-C-111, LUMINAIRE ON BLACK CABLE
  - 55 MHPS, UNDERPASS LUMINAIRE ON RED CABLE
  - 55 MHPS, UNDERPASS LUMINAIRE ON BLACK CABLE
  - JUNCTION BOX FOR UNDERPASS LUMINAIRS 12" X 6" X 8"
  - JUNCTION BOX FOR UNDERGROUND DISTRIBUTION 18" X 18" X 10"
  - PULL BOX IN BARRIER WALL 18" X 8" X 8"
  - LIGHTED SIGN PANEL WITH 3-1/2" NO. 4 AWG ELECTRIC CABLES IN 3 1/4" CABLE DUCT AND NO. 6 AWG GROUNDING CONDUCTOR
  - ⏏ GROUND ROD



L 1355

REVISIONS	
NAME	DATE
C.D.C.	10/83

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 EISENHOWER EXPRESSWAY  
 LIGHTING  
 WIRING DIAGRAM FOR CONTROL  
 CABINET "L" AT CENTRAL AVE.  
 DRAWN BY LRS  
 CHECKED BY HLF



USER NAME = *USER*	DESIGNED - HM	REVISED -
PLOT SCALE = *SCALE*	DRAWN - GJ	REVISED -
PLOT DATE = *DATE*	CHECKED - HS	REVISED -
	DATE - 03-21-2017	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

I-290 AT CENTRAL AVE.  
 INFORMATION ONLY SHEET

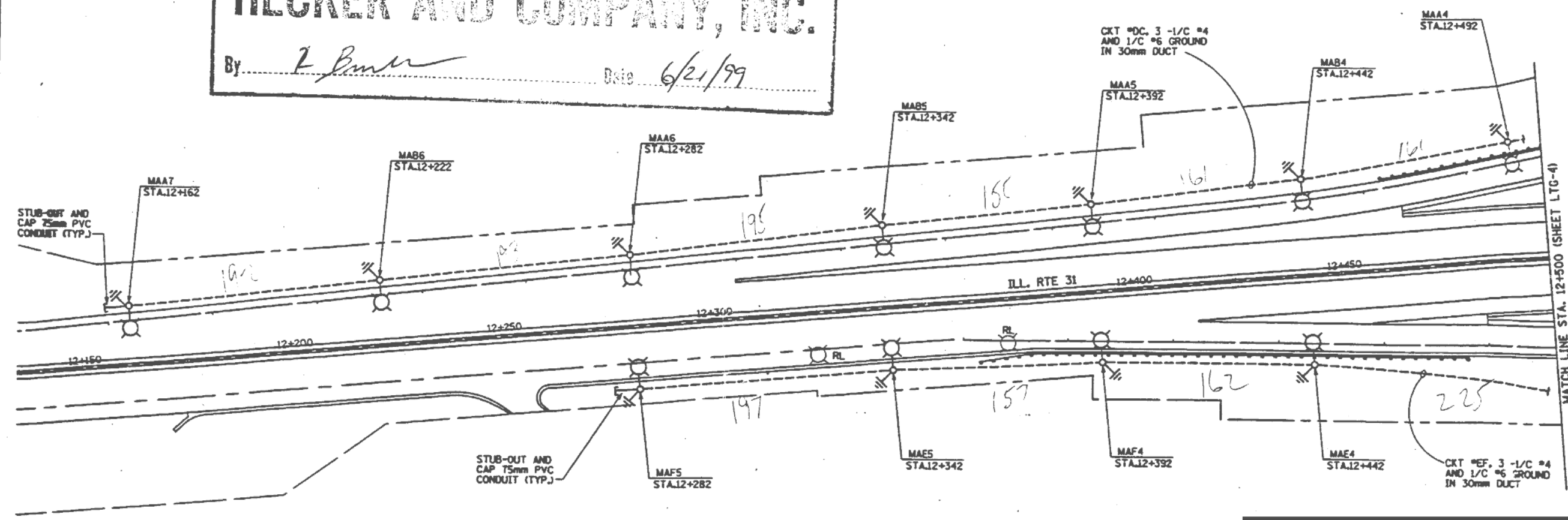
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2016-017L		88	80
CONTRACT NO. 62C35				
ILLINOIS FED. AID PROJECT				



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS NO.	SHEET NO.
336	0	MOHAWY	318	170
STA. 00+000		TO STA. 00+000		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				

**RECORD DRAWINGS**  
**HECKER AND COMPANY, INC.**

By Z. Bunn Date 6/21/99



**FOR INFORMATION ONLY**

35.24  
 UD-1798 + SLACK = 1833.24  
 T+B-1798 - 548m  
 12 ROWS - 11

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION FAP ROUTE 336 (ILL. RTE. 30)
NAME	DATE	
		LIGHTING PLAN ILL. ROUTE 31

SCALE = 1:500  
 DATE: 10-23-97  
 DRAWN BY: NS  
 CHECKED BY: ADO



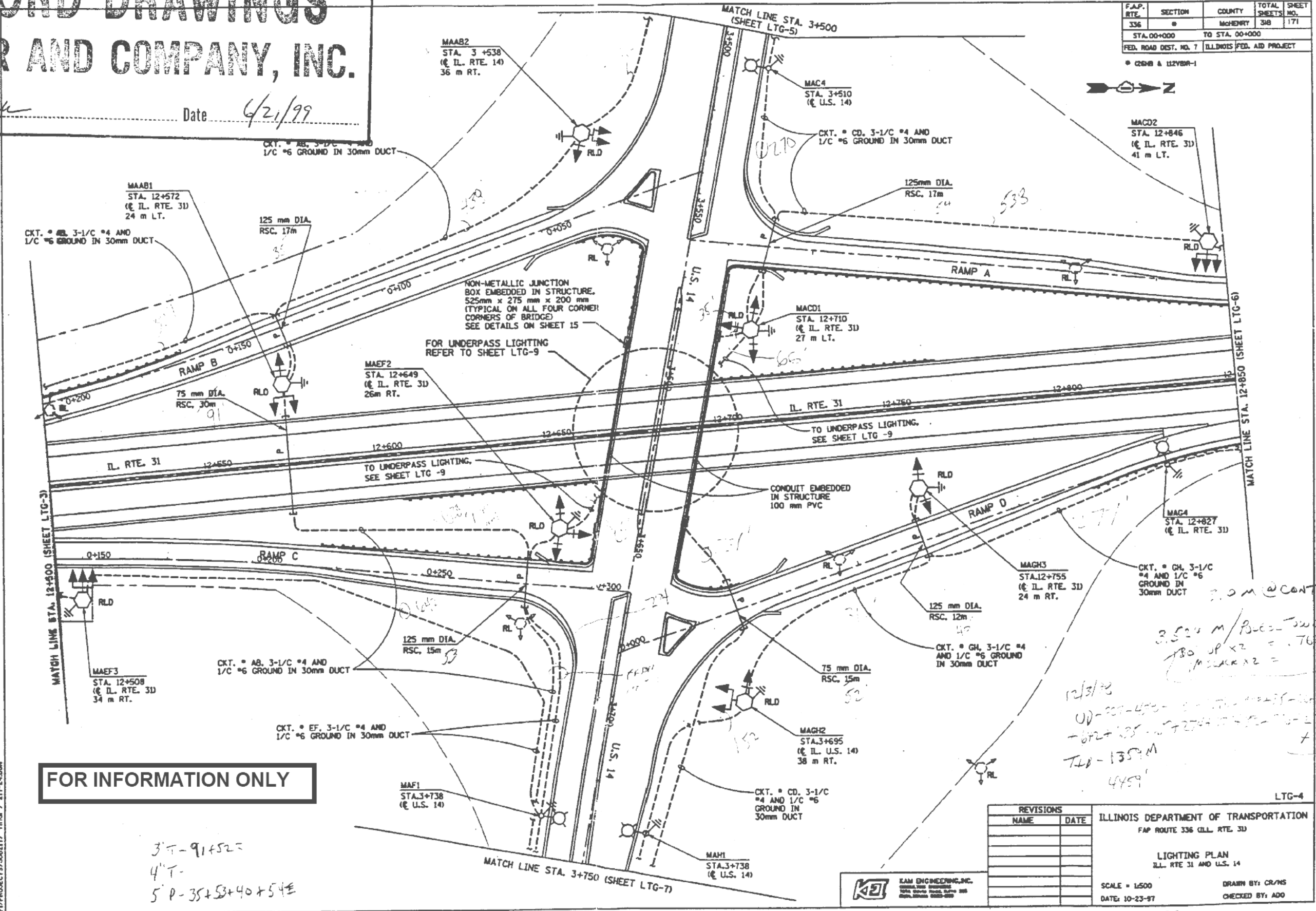
F:\PROJECTS\JOB217\final\217-43.DWG

# RECORD DRAWINGS

## HECKER AND COMPANY, INC.

By R. Burke Date 6/21/99

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336		McHENRY	348	171
STA. 00+000 TO STA. 00+000		ILLINOIS FED. AID PROJECT		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		



**FOR INFORMATION ONLY**

3" T - 91 + 52  
 4" T -  
 5" P - 35 + 53 + 40 + 54

Handwritten notes and calculations:  
 3.524 m / 1000 = 3.524  
 180' x 2 = 360'  
 1000' x 2 = 2000'  
 12/31/98  
 UD - 209 - 450 - ... = 1415'  
 - 672 + 235 = 724 + 724 = 1448'  
 TL - 135' M  
 445'

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 FAP ROUTE 336 ILL. RTE. 31  
 LIGHTING PLAN  
 ILL. RTE 31 AND U.S. 14  
 SCALE = 1:500  
 DATE: 10-23-97  
 DRAWN BY: CR/MS  
 CHECKED BY: ADD



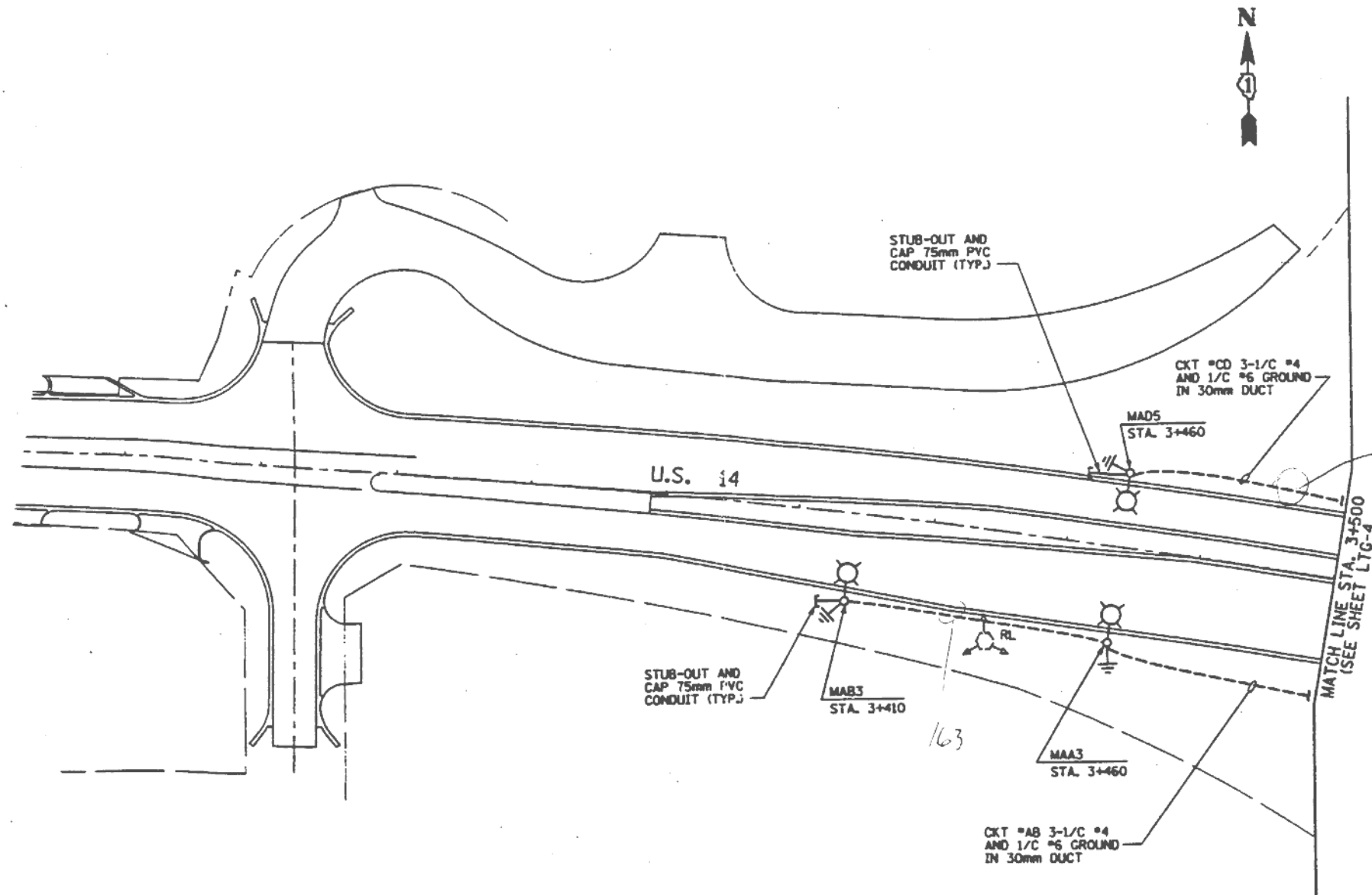
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PLOT DATE = *DATE*	CHECKED - HS	REVISED -
	DATE - 03-21-2017	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

US 14 AT IL 31  
 INFORMATION ONLY SHEET  
 SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2016-017L		88	82
			CONTRACT NO. 62C35	
ILLINOIS FED. AID PROJECT				

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	#	MONROE	318	172
STA. 00+000		TO STA. 00+000		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		
* (2648 & 112YBR-1)				



NOT MEASURED

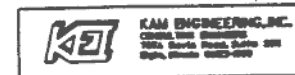
FOR INFORMATION ONLY

**RECORD DRAWINGS**  
**HECKER AND COMPANY, INC.**  
 By *R. Bunker* Date *6/24/99*

*UD - 49.7 + 7.05  
 T20 - 49.7  
 6.1000 - 3  
 SLACC - 56.75*

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION FAP ROUTE 336 (ILL. RTE. 33)
NAME	DATE	
		LIGHTING PLAN U.S. 14

SCALE = 1:500  
DATE: 10-23-97  
DRAWN BY: HS  
CHECKED BY: ADG



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USER NAME = #USER#	DESIGNED - HM	REVISED -
DRAWN - GJ	REVISIONS -	
PLOT SCALE = #SCALE#	CHECKED - HS	REVISED -
PLOT DATE = #DATE#	DATE - 03-21-2017	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

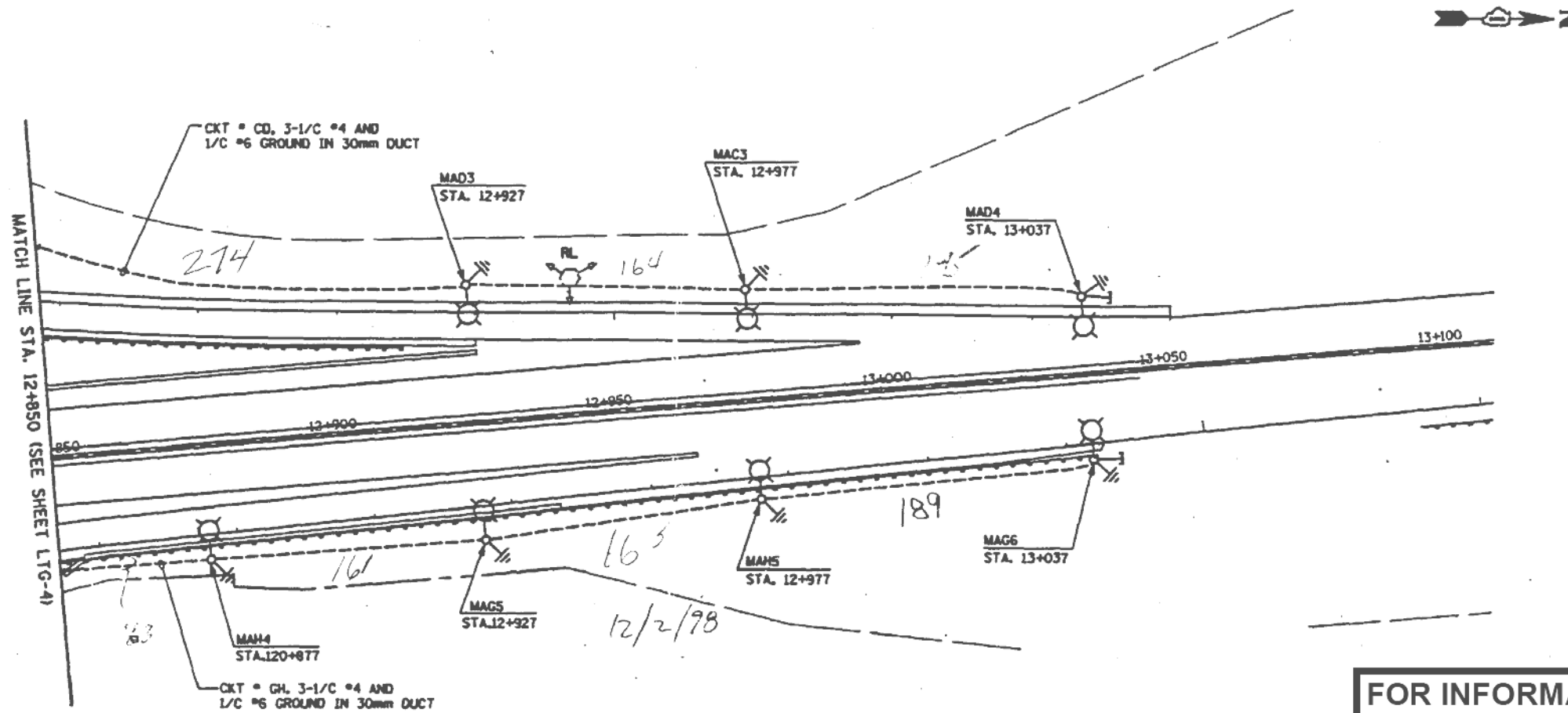
US14 AT IL31  
INFORMATION ONLY SHEET

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2016-017L		88	83
CONTRACT NO. 62C35				
ILLINOIS FED. AID PROJECT				

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	8	McHENRY	318	173
STA. 00+000		TO STA. 00+000		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		

© GDB & LIZVBR-1



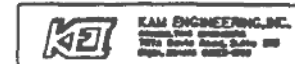
FOR INFORMATION ONLY

**RECORD DRAWINGS**  
**HECKER AND COMPANY, INC.**  
 By R. Brown Date 6/21/99

JD-399 m + SLACK = 420.2  
 TB-399 -  
 6 ROWS - 7

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION FAP ROUTE 336 (ILL. RTE. 31)
NAME	DATE	
		LIGHTING PLAN ILL. RTE. 31

SCALE = 1:500  
 DATE: 10-23-97  
 DRAWN BY: HS  
 CHECKED BY: ADD



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USER NAME = #USER#	DESIGNED - HM	REVISED -
PLOT SCALE = #SCALE#	DRAWN - GJ	REVISED -
PLOT DATE = #DATE#	CHECKED - HS	REVISED -
	DATE - 03-21-2017	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

US14 AT IL31  
 INFORMATION ONLY SHEET  
 SCALE: SHEET OF SHEETS STA. TO STA.

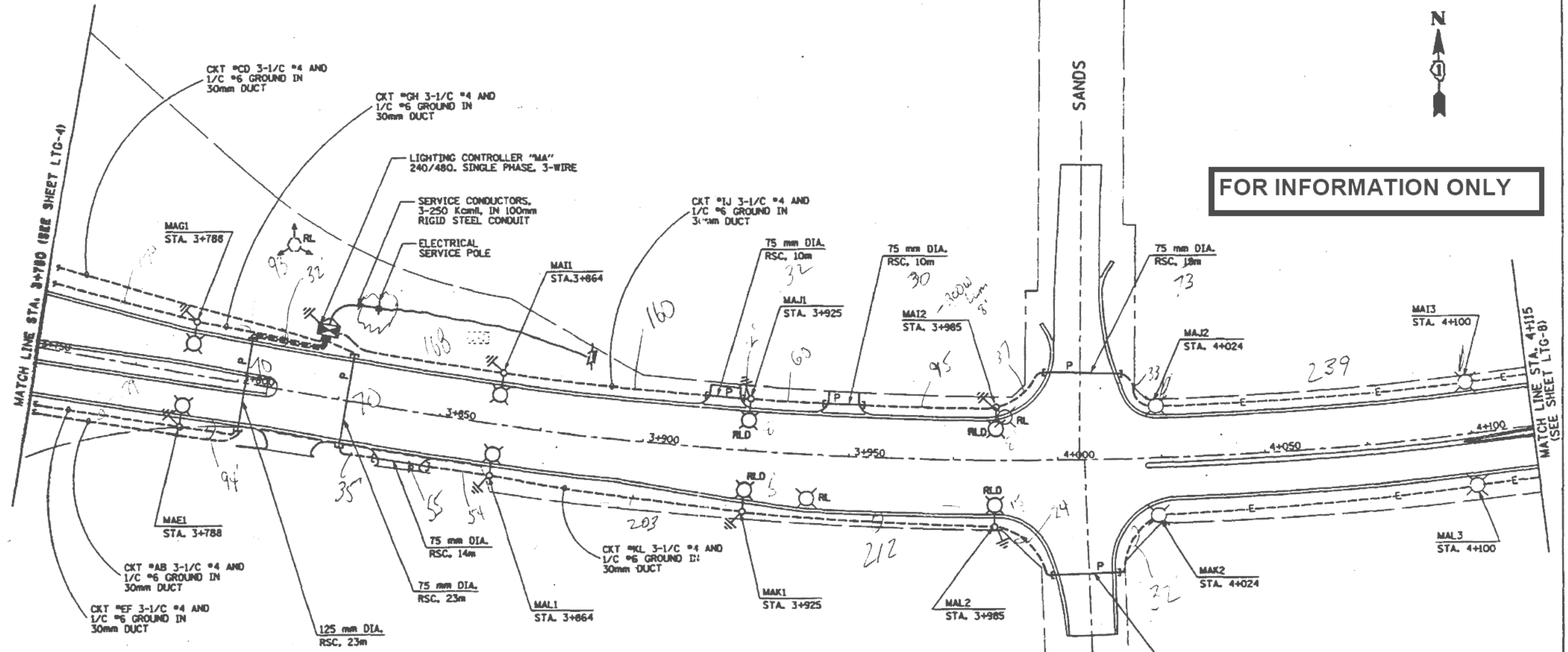
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2016-017L		88	84
			CONTRACT NO. 62C35	
ILLINOIS FED. AID PROJECT				

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	8	MONROVIE	318	174
STA. 00+000 TO STA. 00+000				
FED. ROAD DIST. NO. 7			ILLINOIS FED. AID PROJECT	

# (208 & 112YBR-1)



**FOR INFORMATION ONLY**



**RECORD DRAWINGS  
HECKER AND COMPANY, INC.**

By R. Bruce Date 6/21/99

3" T - 70+73+76+32+70+35 = 336

**NOTE:**  
THE EXISTING LIGHTING UNITS TO REMAIN SHALL BE RE-LETTERED WITH THE NEW CIRCUIT IDENTIFICATION NUMBERS. THIS WORK SHALL BE INCIDENTAL TO THE CONTRACT.

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION FAP ROUTE 336 OLL. RTE. 3U
NAME	DATE	
		<b>LIGHTING PLAN</b> U.S. 14  SCALE = 1:500 DATE: 10-23-97 DRAWN BY: NS CHECKED BY: ADO

F:\PROJECTS\JOB\117\117-ET.DWG



USER NAME = *USER*	DESIGNED - HM	REVISED -
PLOT SCALE = *SCALE*	DRAWN - GJ	REVISED -
PLOT DATE = *DATE*	CHECKED - HS	REVISED -
	DATE - 03-21-2017	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US14 AT IL31  
INFORMATION ONLY SHEET**

SCALE:      SHEET      OF      SHEETS      STA.      TO      STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2016-017L		88	85
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62C35	

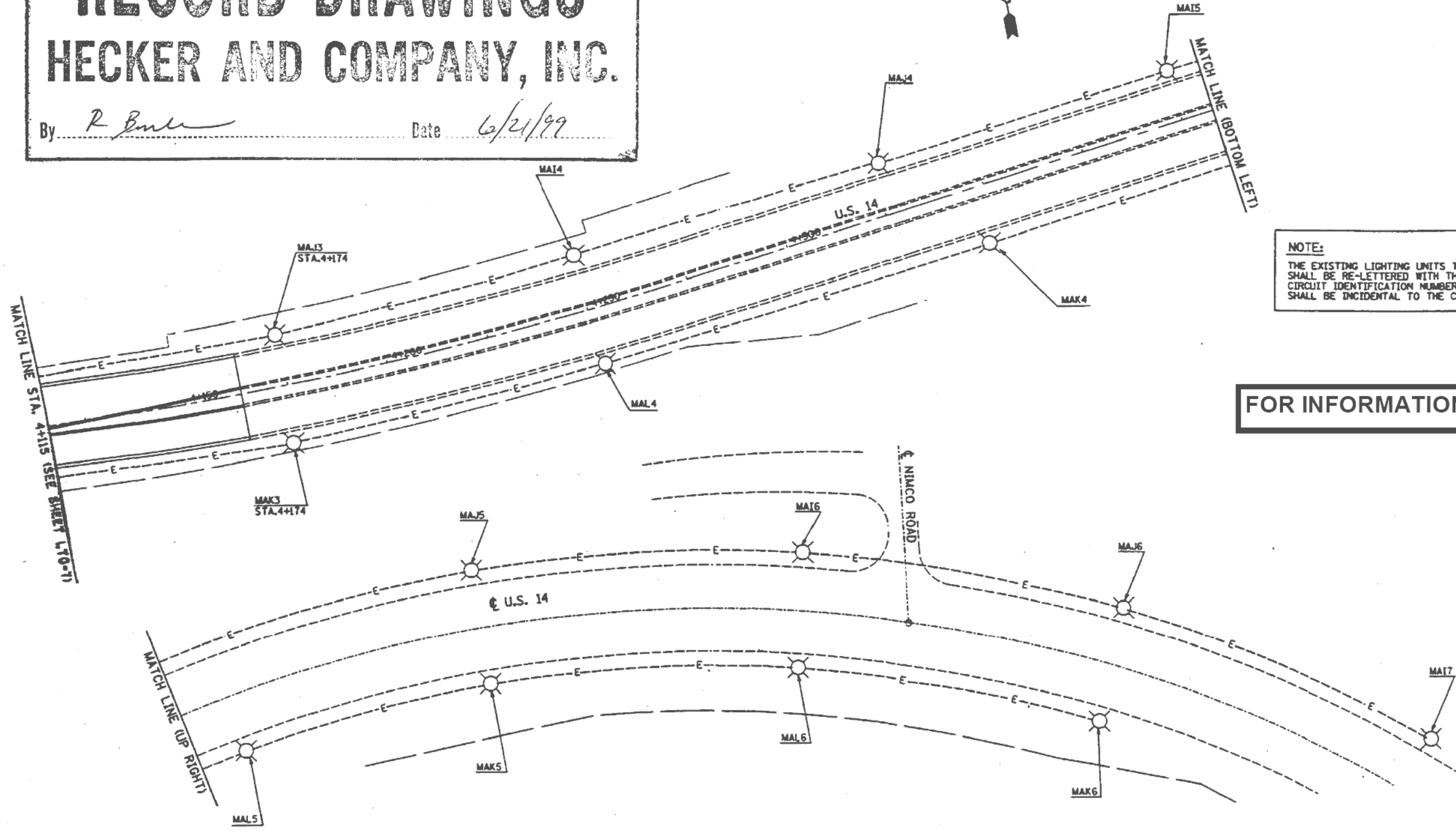
*Handwritten notes:*  
 31.72  
 49.72 = 508.16

# RECORD DRAWINGS HECKER AND COMPANY, INC.

By R. B. Miller Date 6/21/99

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	0	McHENRY	318	175
STA. 00+000		TO STA. 00+000		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		

# 02618 & 112VBR-1



**NOTE:**  
THE EXISTING LIGHTING UNITS TO REMAIN SHALL BE RE-LETTERED WITH THE NEW CIRCUIT IDENTIFICATION NUMBERS. THIS WORK SHALL BE INCIDENTAL TO THE CONTRACT.

**FOR INFORMATION ONLY**

P:\PROJECTS\02618\Draw / 211-88.DWG

LTG-8

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION FAP ROUTE 336 (ILL. RTE. 33)
NAME	DATE	
		LIGHTING PLAN U.S. 14

SCALE = 1:500  
DATE: 10-23-97  
DRAWN BY: MS  
CHECKED BY: ADD



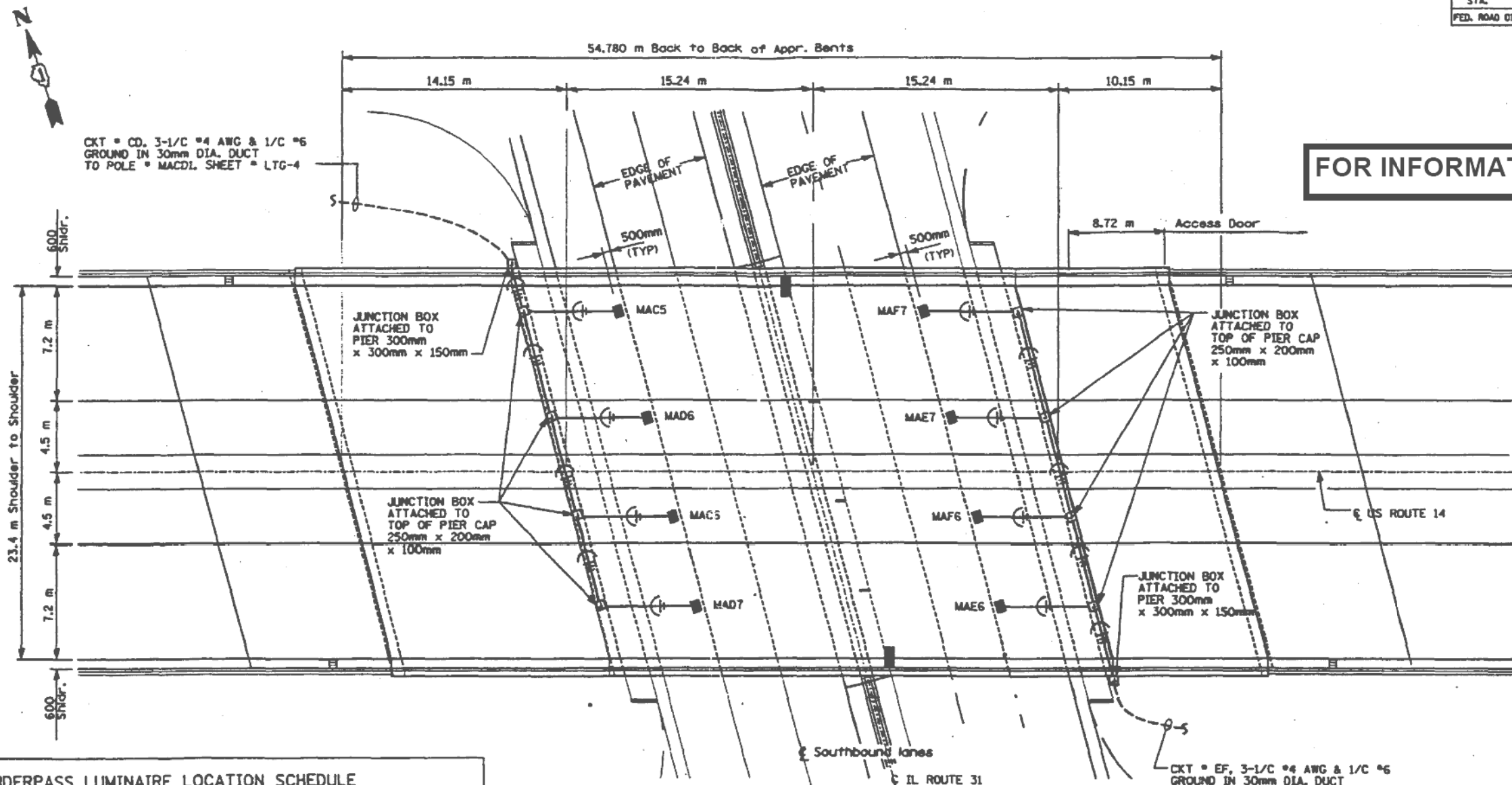
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PLOT SCALE = *SCALE*	DRAWN - GJ	REVISED -
PLOT DATE = *DATE*	CHECKED - HS	REVISED -
	DATE - 03-21-2017	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

US14 AT IL31 INFORMATION ONLY SHEET			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2016-017L		88	86
CONTRACT NO. 62C35				ILLINOIS FED. AID PROJECT

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	026BALL2VW-1	MCHEERY	318	176
STA.	TO STA.			
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



FOR INFORMATION ONLY

UNDERPASS LUMINAIRE LOCATION SCHEDULE		
LUMINAIRE NO.	LOCATION	REMARKS
MAC5 & MAF7	CENTERED BETWEEN BEAMS 2 AND 3	
MAD6 & MAE7	CENTERED BETWEEN BEAMS 4 AND 5	
MAC6 & MAF6	CENTERED BETWEEN BEAMS 6 AND 7	
MAD7 & MAE6	BETWEEN COLUMNS 8 AND 9	

**PLAN**

**LEGEND:**

- UNDERPASS LUMINAIRE, SSW LPS
- JUNCTION BOX (SIZE AS INDICATED ON PLANS)
- ELECTRIC CABLE IN CONDUIT, (EPR-TYPE RHW) NO. 10 AWG UNLESS OTHERWISE SPECIFIED, NUMBER OF CONDUCTORS AS INDICATED ON PLANS.
- CROSS-HATCHED LINES DENOTE NUMBER OF WIRES IN CONDUIT. ANY CIRCUIT WITHOUT FURTHER DESIGNATION IS A 3-WIRE CIRCUIT.
- 25mm (1") RIGID STEEL CONDUIT
- PHASE (S) AS NEEDED
- NEUTRAL WHITE
- GROUND GREEN

**NOTE**  
L FOR DETAILS SEE SHEETS LTG-17 & LTG-18

# RECORD DRAWINGS

## HECKER AND COMPANY, INC.

By: *R. Buer* Date: *6/21/99*

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION FAP ROUTE 336 (ILL. RTE. 31)
NAME	DATE	
		<b>UNDERPASS LIGHTING</b> IL ROUTE 31 & US ROUTE 14  SCALE = 1:45 DATE: 10-23-97 DRAWN BY: CR CHECKED BY: ACO



USER NAME = *USER*	DESIGNED - HM	REVISED -
PLOT SCALE = *SCALE*	DRAWN - GJ	REVISED -
PLOT DATE = *DATE*	CHECKED - HS	REVISED -
	DATE - 03-21-2017	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>US14 AT IL31 INFORMATION ONLY SHEET</b>			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

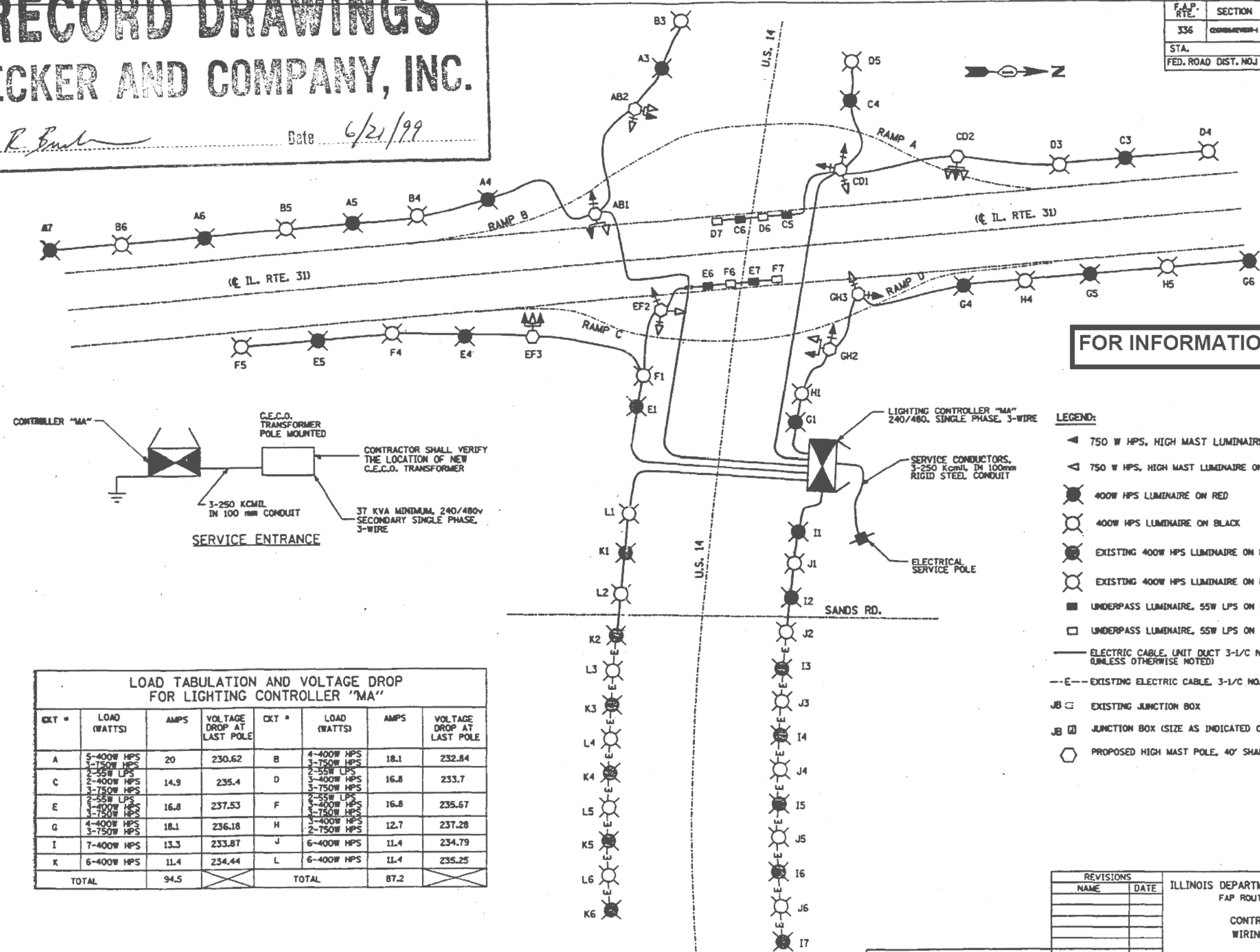
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2016-017L		88	87
CONTRACT NO. 62C35				
ILLINOIS FED. AID PROJECT				

# RECORD DRAWINGS

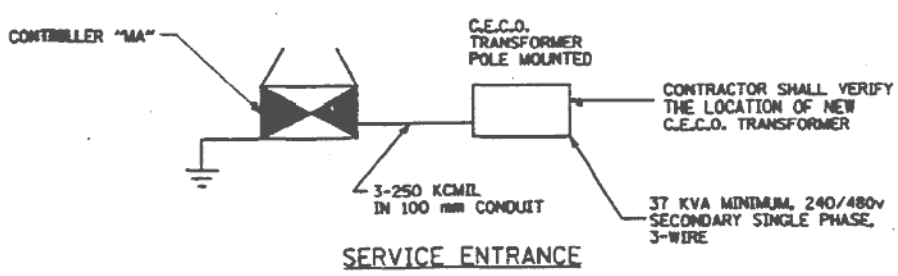
## HECKER AND COMPANY, INC.

By *R. Eml* Date *6/21/99*

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	2016-017L	MC HENRY	318	177
STA.		TO STA.		
FED. ROAD DIST. NO. J		ILLINOIS		FED. AID PROJECT



**FOR INFORMATION ONLY**



- LEGEND:**
- ◀ 750 W HPS, HIGH MAST LUMINAIRE ON RED
  - ◀ 750 W HPS, HIGH MAST LUMINAIRE ON BLACK
  - 400W HPS LUMINAIRE ON RED
  - 400W HPS LUMINAIRE ON BLACK
  - EXISTING 400W HPS LUMINAIRE ON RED
  - EXISTING 400W HPS LUMINAIRE ON BLACK
  - UNDERPASS LUMINAIRE, 55W LPS ON RED
  - UNDERPASS LUMINAIRE, 55W LPS ON BLACK
  - ELECTRIC CABLE, UNIT DUCT 3-1/2" NO. 4 AND 1/2" NO. 6 GROUND (UNLESS OTHERWISE NOTED)
  - E- EXISTING ELECTRIC CABLE, 3-1/2" NO. 4 AND 1/2" NO. 6 GROUND
  - JB □ EXISTING JUNCTION BOX
  - JB □ JUNCTION BOX (SIZE AS INDICATED ON PLANS)
  - PROPOSED HIGH MAST POLE, 40' SHAFT

**LOAD TABULATION AND VOLTAGE DROP FOR LIGHTING CONTROLLER "MA"**

CKT #	LOAD (WATTS)	AMPS	VOLTAGE DROP AT LAST POLE	CKT #	LOAD (WATTS)	AMPS	VOLTAGE DROP AT LAST POLE
A	5-400W HPS 3-750W HPS	20	230.62	B	4-400W HPS 3-750W HPS	18.1	232.84
C	2-400W HPS 3-750W HPS	14.9	235.4	D	2-55W LPS 3-400W HPS 3-750W HPS	16.8	233.7
E	2-55W LPS 3-400W HPS 3-750W HPS	16.8	237.53	F	2-55W LPS 4-400W HPS 3-750W HPS	16.8	235.67
G	4-400W HPS 3-750W HPS	18.1	236.18	H	3-400W HPS 2-750W HPS	12.7	237.28
I	7-400W HPS	13.3	233.87	J	6-400W HPS	11.4	234.79
K	6-400W HPS	11.4	234.44	L	6-400W HPS	11.4	235.25
TOTAL		94.5		TOTAL		87.2	

ILLINOIS DEPARTMENT OF TRANSPORTATION  
FAP ROUTE 336 (ILL. RTE. 31)

CONTROLLER "MA"  
WIRING DIAGRAM

SCALE: NONE DRAWN BY CR  
DATE: 10-23-97 CHECKED BY ADO

F:\PROJECT\JOB#-217\FINAL\217-LTG9



USER NAME = *USER*	DESIGNED - HM	REVISED -
PLOT SCALE = *SCALE*	DRAWN - GJ	REVISED -
PLOT DATE = *DATE*	CHECKED - HS	REVISED -
	DATE - 03-21-2017	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

US14 AT IL31  
INFORMATION ONLY SHEET

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2016-017L		88	88
CONTRACT NO. 62C35				
ILLINOIS FED. AID PROJECT				