

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

FAP ROUTE 331 (IL 13)
SECTION (12-1)B-1
PROJECT ACNHF - 0331(060)
JACKSON COUNTY

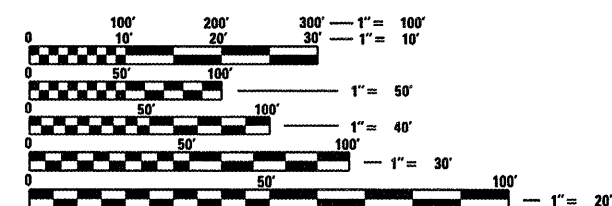
C - 99 - 040 - 08

STRUCTURE REPLACEMENT OVER BIG MUDDY RIVER

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
331	(12-1)B-1	JACKSON	200	1
FED. ROAD DIST. NO.		ILLINOIS	CONTRACT NO. 78056	
D-99-027-08				

FOR INDEX OF SHEETS SEE SHEET NO. 2

MICROFILMED _____
REEL NUMBER _____
AWARDED _____
RESIDENT ENGINEER _____
AS BUILT CHANGES WERE MADE
ON THE FOLLOWING SHEETS _____



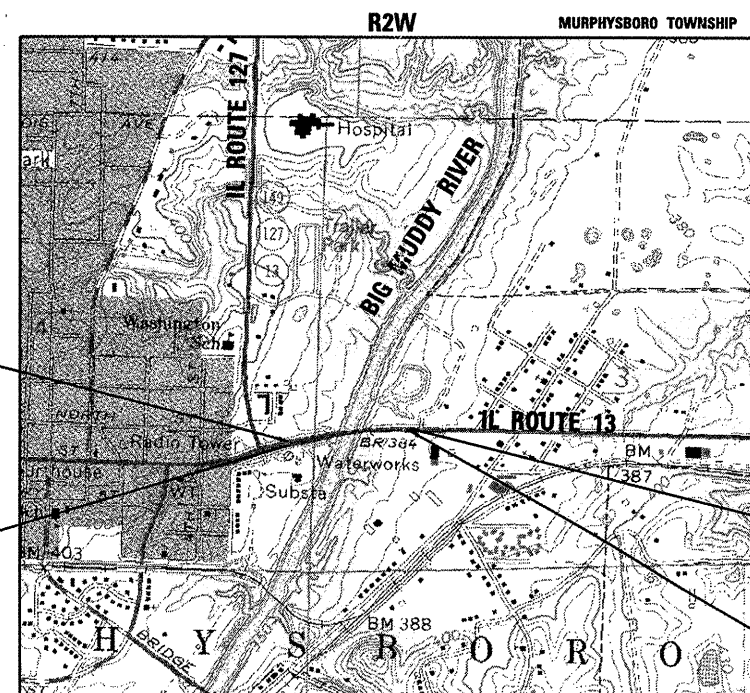
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT MANAGER : DAVID PICHE
(618) 549-2171

CONTRACT NO. 78056

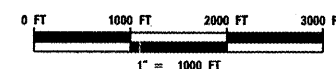
FUNCTIONAL CLASSIFICATION
RURAL MINOR ARTERIAL - F.A.P. 331 (IL RTE. 13)
ADT 19,180 (2008)
PV = 92.6%
SU = 5.0%
MU = 2.4%
DESIGN SPEED = 40 MPH
POSTED SPEED = 40 MPH
DESIGN DESIGNATION
1023(14) ARTERIAL 1.19 (FD-5) (TEMPORARY)



SECTION (12-1)B-1 INCLUDES TWO 5-SPAN CURVED STEEL GIRDERS WITH CONCRETE DECKS, AND STUB ABUTMENTS CARRYING IL ROUTE 13 OVER THE BIG MUDDY RIVER
PROPOSED S.N. 039-0075 EB STRUCTURE
BACK OF ABUTMENT STA. 338+67.12 AND STA. 343+33.08
PROPOSED S.N. 039-0076 WB STRUCTURE
BACK OF ABUTMENT STA. 338+41.25 AND STA. 343+07.16
SPANS 77'-0", 97'-0", 110'-0", 97'-0", 77'-0"

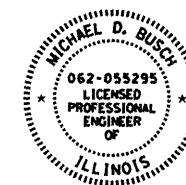
BEGIN PROJECT
STA. 334+70.00 (WB)

BEGIN PROJECT
STA. 334+70.00 (EB)

LOCATION MAP

EASTBOUND ALIGNMENT
SECTION (12-1)B-1 GROSS LENGTH = 1300.00' = 0.247 MILES
NET LENGTH OF ROADWORK = 834.67' = 0.159 MILES
NET LENGTH OF BRIDGE = 465.33' = 0.088 MILES

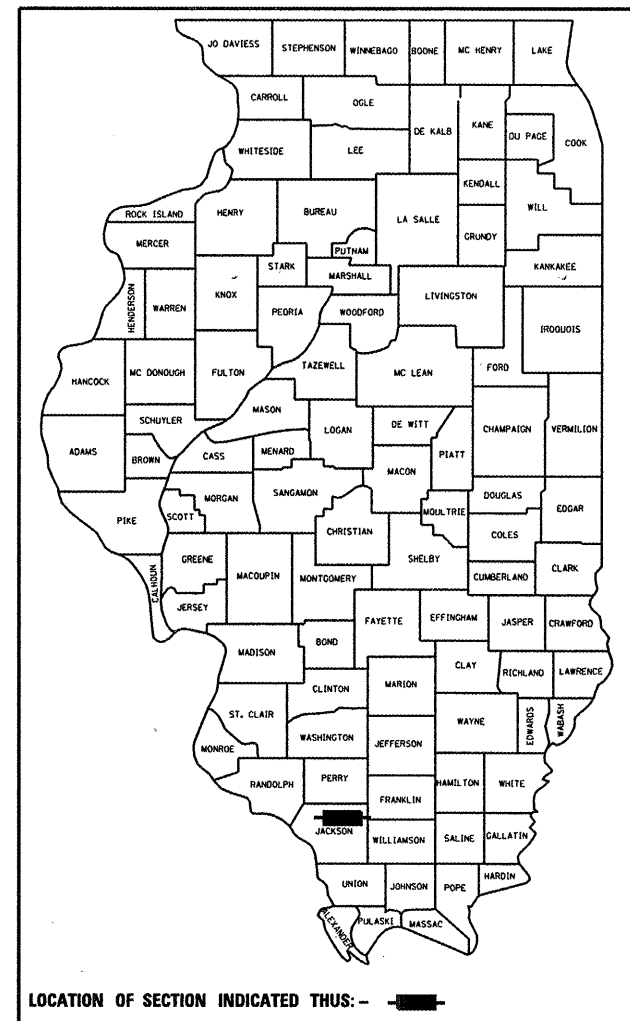
WESTBOUND ALIGNMENT
SECTION (12-1)B-1 GROSS LENGTH = 1320.00' = 0.251 MILES
NET LENGTH OF ROADWORK = 854.67' = 0.162 MILES
NET LENGTH OF BRIDGE = 465.33' = 0.088 MILES



EXPIRES 11/30/13

Michael D. Busch 1/25/12
MICHAEL D. BUSCH DATE

COVERS ALL SHEETS EXCEPT:
LIGHTING PLANS SHT 44-50 BY OTHERS
BRIDGE PLANS SHT 60-165 SEE FOR SEAL



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED Feb 1 20 12
Omer Osman
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
March 23 20 12
John D. Baranzelli, P.E.
acting ENGINEER OF DESIGN AND ENVIRONMENT
March 23 20 12
William R. Frey
acting DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS



OATES ASSOCIATES
Engineering + Architecture

1.) ALL PROPOSED LIGHTING UNITS SHALL BE LABELED ACCORDING TO THE STANDARD SPECIFICATIONS, WITH POLE NUMBERS ATTACHED WITH STAINLESS STEEL BANDING. LIGHTING UNIT NUMBERING SHALL BE AS DIRECTED BY THE ENGINEER.

3.) THE CONTRACTOR IS RESPONSIBLE FOR UNCOVERING OR HAND DIGGING AROUND UTILITIES AS NECESSARY. THE COST OF THIS WORK IS TO BE INCLUDED WITH THE "UNIT DUCT, 600V, 2-1C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1" DIA POLYETHYLENE" PAY ITEM.

4.) ALL PROPOSED LIGHT POLES TO BE INSTALLED AT A MINIMUM OF 15 FEET BEHIND THE EDGE OF PAVEMENT. NO POLES TO BE INSTALLED IN THE FLOWLINE OF DITCH. POLE SETBACK TO BE INCREASED IF NECESSARY AS DIRECTED BY THE ENGINEER.

5.) NO LIGHTING CIRCUIT OR PORTION THEREOF SHALL BE REMOVED FROM NIGHTTIME OPERATION WITHOUT APPROVAL OF THE ENGINEER.

6.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE LIGHTING SYSTEM UNTIL IDOT HAS TAKEN ACCEPTANCE OF THE SYSTEM. ALL EXISTING CIRCUITS AND CABLES TO THE LIGHT POLES SHALL BE MAINTAINED AS NEEDED AND THIS WORK SHALL BE INCIDENTAL TO THE CONTRACT.

7.) ALL ATTACHED CONDUIT, JUNCTION BOXES, CONDUIT HANGERS, SUPPORTS AND APPURTENANCES SHALL BE REMOVED FROM THE BRIDGE. REMOVED MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF ACCORDING TO ARTICLE 202.03. THE COST OF THIS WORK SHALL BE INCLUDED IN THE BRIDGE REMOVAL, AND NO ADDITIONAL PAYMENT WILL BE ALLOWED.

8.) ALL EXISTING LIGHTING UNITS, EXCEPT 7G AND B15 AS SHOWN ON THE PLANS, SHALL REMAIN FULLY OPERATIONAL DURING STAGE 1 CONSTRUCTION. ALL LIGHTING UNITS ON CIRCUIT 1-2 SHALL BE INSTALLED AND MADE FULLY OPERATIONAL PRIOR TO STAGE 2 CONSTRUCTION.

9.) THE CONTRACTOR SHALL TAKE INSULATION RESISTANCE MEASUREMENTS OF ALL EXISTING CIRCUITS BEFORE ANY MODIFICATIONS ARE MADE AND PROVIDE THE WRITTEN RESULTS TO THE ENGINEER. EXISTING CIRCUITS IN THE LIGHTING CONTROLLERS LOCATED AT STA. 327+70 AND STA. 349+00 NOT TESTED AND PROPERLY DOCUMENTED SHALL BE SUBJECT TO THE INSULATION REQUIREMENTS OF ARTICLE 801.13 AT THE CONTRACTOR'S EXPENSE.

10.) THE CONTRACTOR SHALL TAKE INSULATION RESISTANCE MEASUREMENTS OF THE EXISTING PORTION OF THE CIRCUIT FED FROM THE EXISTING CONTROLLER AT STA. 349+00 PRIOR TO CONNECTING THE NEW FACILITIES TO THIS CIRCUIT. WRITTEN RESULTS SHALL BE PROVIDED TO THE ENGINEER.

11.) AFTER THE PROPOSED CIRCUITS ARE FULLY INSTALLED THE CONTRACTOR SHALL TAKE INSULATION RESISTANCE MEASUREMENTS ACCORDING TO ARTICLE 801.13 AND PROVIDE THE WRITTEN RESULTS TO THE ENGINEER. IF THE TEST RESULTS DO NOT COMPLY WITH ARTICLE 801.13, THE CONTRACTOR SHALL THEN TEST ONLY THE PORTIONS OF THE CIRCUIT WHICH ARE NEW. ANY WORK NECESSARY TO BRING THE CIRCUITS INTO COMPLIANCE SHALL BE AT THE CONTRACTOR'S OWN EXPENSE AND NO ADDITIONAL PAYMENT WILL BE ALLOWED.

12.) THE CONTRACTOR SHALL PLACE A COPY OF REVISED AS-BUILT PLANS INSIDE THE EXISTING LIGHTING CONTROLLERS LOCATED AT STA. 327+70 AND STA. 349+00.

13.) THE LOCATIONS OF ALL EXISTING LIGHTING FACILITIES SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY EXISTING FIELD CONDITIONS.

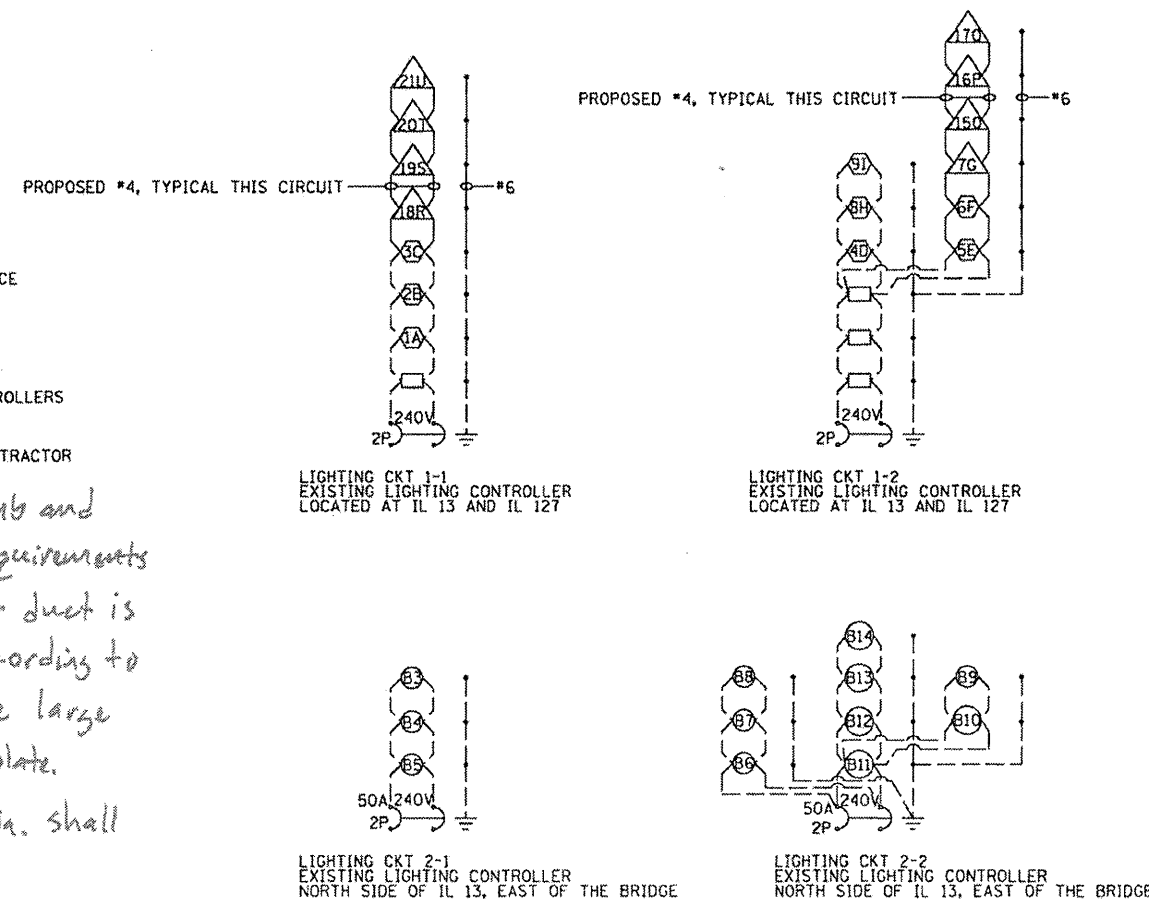
14.) PROPOSED LIGHT POLE FOUNDATION SHALL BE

14.) PROPOSED LIGHT POLE FOUNDATION SHALL BE installed plumb and flush with the existing grade and shall meet the height requirements of Article 836.03 of the Standard Specifications. After unit duct is installed, foundations shall be filled with fine aggregate according to Article 836.03. Washers used to install the pole shall be large enough to fully cover the slotted holes in the pole base plate.

15.) Underground conduit, Coilable Nonmetallic Conduit, 2 1/2" Dia. shall be Schedule 80 as noted in the plans.

LIGHTING PLAN QUANTITIES			
81200230	CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	FOOT	1,025
81300530	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6"	EACH	4
81300630	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 14" X 12" X 6"	EACH	1
81503030	UNIT DUCT, 600V, 2-JC NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE	FOOT	1,102
81702130	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	1,025
81702140	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 4	FOOT	2,050
82102250	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT	EACH	8
83002200	LIGHT POLE, ALUMINUM, 40 FT. M.H., 6 FT. DAVIT ARM	EACH	6
83003600	LIGHT POLE, ALUMINUM, 45 FT. M.H., 15 FT. DAVIT ARM	EACH	2
83500355	LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 8" X 6'	EACH	2
83800650	BREAKAWAY DEVICE, COUPLING WITH STAINLESS STEEL SCREEN	EACH	8
84200600	REMOVAL OF LIGHTING UNIT, NO SALVAGE	EACH	5
84200804	REMOVAL OF POLE FOUNDATION	EACH	3

Underground Conduit, Coilable	Foot	182
Nonmetallic Conduit, 2 1/2" Dia.		



1.) ALL NECESSARY REVISIONS TO THE WIRING SHOWN ON THIS SHEET SHALL BE MADE AT NO ADDITIONAL COST TO THE DEPARTMENT AND TO THE SATISFACTION OF THE ENGINEER.

2.1 EXISTING POLE NUMBERS ARE BASED ON THE
AS-BUILT PLANS.

3.) CONTRACTOR SHALL VERIFY THE RATING OF ALL BRANCH CIRCUIT BREAKERS IN THE EXISTING CONTROLLER LOCATED AT STA. 349+00. LARGER BREAKERS SHALL BE FURNISHED AND INSTALLED IF NEEDED ACCORDING TO NEC REQUIREMENTS. THIS WORK SHALL BE PAID FOR ACCORDING TO ARTICLE 109.04.

LIGHTING CIRCUIT LEGEND

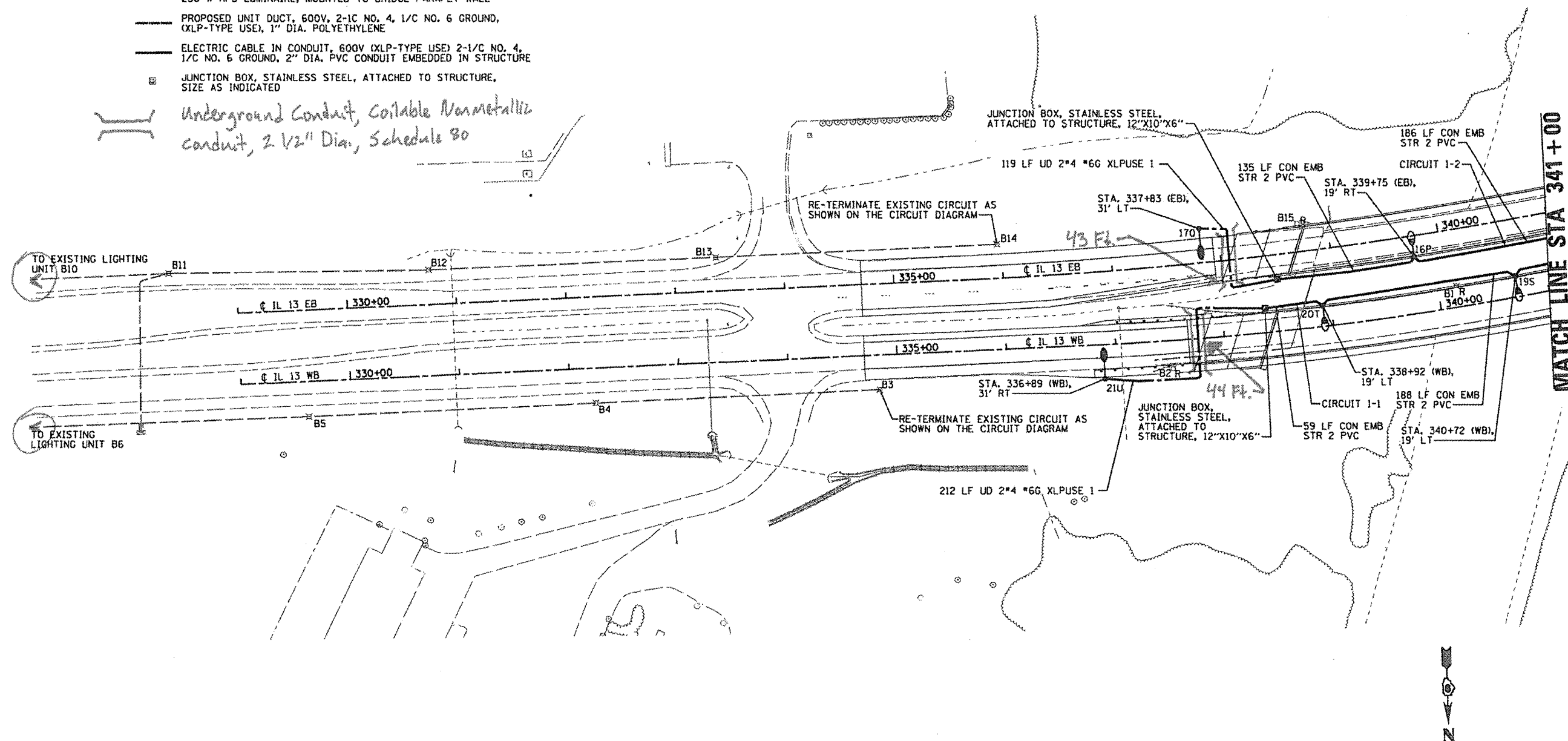
- | | |
|-----|-----------------------------|
| --- | EXISTING ELECTRIC CABLE |
| □ | EXISTING HANDHOLE |
| ⬡ | EXISTING 250W HPS LUMINAIRE |
| ○ | EXISTING 700W MV LUMINAIRE |
| △ | PROPOSED 250W HPS LUMINAIRE |

LIGHTING CIRCUITS

FILE NAME =	USER NAME = default	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LIGHTING PLANS				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
u:\2001\8\mccr...station\2\phase\1\0978056-	t-light.dgn	DRAWN	REVISED -		GENERAL NOTES, QUANTITIES, AND CIRCUIT DIAGRAMS				331	(12-1)B-1	JACKSON	200	44
PLOT SCALE = 100.0000' / IN.	CHECKED -	REVISED -			CONTRACT NO. 78056								
PLOT DATE = 1/29/2012	DATE	REVISED -			SCALE:	SHEET NO. 1 OF 7 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT				

EXISTING LIGHTING CONTROLLER	
EXISTING HANDHOLE	
EXISTING LIGHTING UNIT TO REMAIN	
EXISTING UNIT DUCT	
EXISTING LIGHTING UNIT TO BE REMOVED, NO SALVAGE	
LIGHT POLE, ALUMINUM, 45 FT M.H., 15 FT DAVIT ARM WITH 250 W HPS LUMINAIRE, METAL FOUNDATION	
LIGHT POLE, ALUMINUM, 40 FT M.H., 6 FT DAVIT ARM WITH 250 W HPS LUMINAIRE, MOUNTED TO BRIDGE PARAPET WALL	
PROPOSED UNIT DUCT, 600V, 2-1C NO. 4, 1/C NO. 6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE	
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 2-1/C NO. 4, 1/C NO. 6 GROUND, 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE	
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, SIZE AS INDICATED	

Underground Conduit, Coilable Nonmetallic
conduit, 2 1/2" Dia., Schedule 80

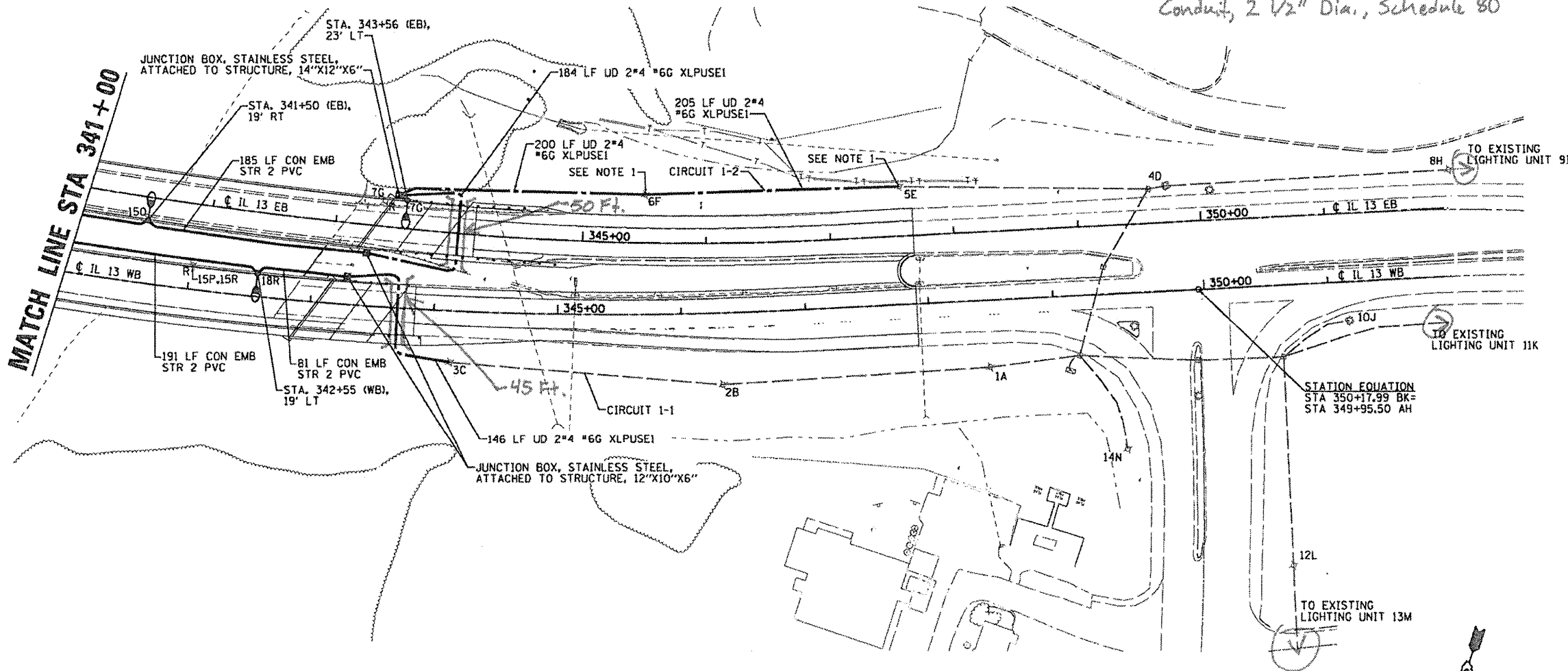


FILE NAME =	USER NAME = default	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				LIGHTING PLANS LAYOUT				F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT SCALE = 100.0000' / IN.		CHECKED -	REVISED -					CONTRACT NO. 78056								
PLOT DATE = 1/25/2012		DATE -	REVISED -					ILLINOIS / FED. AID PROJECT								

LIGHTING LEGEND

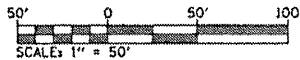
- EXISTING LIGHTING CONTROLLER
- EXISTING HANDHOLE
- EXISTING LIGHTING UNIT TO REMAIN
- EXISTING UNIT DUCT
- EXISTING LIGHTING UNIT TO BE REMOVED, NO SALVAGE
- LIGHT POLE, ALUMINUM, 45 FT M.H., 15 FT DAVIT ARM WITH 250 W HPS LUMINAIRE, METAL FOUNDATION
- LIGHT POLE, ALUMINUM, 40 FT M.H., 6 FT DAVIT ARM WITH 250 W HPS LUMINAIRE, MOUNTED TO BRIDGE PARAPET WALL
- PROPOSED UNIT DUCT, 600V, 2-1C NO. 4, 1/C NO. 6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
- ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 2-1/C NO. 4, 1/C NO. 6 GROUND, 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, SIZE AS INDICATED

Underground Conduit, Coilable Nonmetallic Conduit, 2 1/2" Dia., Schedule 80



NOTE 1. DISCONNECT EXISTING ELECTRIC CABLES AT LIGHTING UNITS SE AND 6F. REMOVE CABLE AND DUCT TO A DEPTH OF 1 FT BELOW THE GROUND LEVEL AND BACKFILL THE VOID. ABANDON UNDERGROUND ELECTRIC CABLES AND DUCT. THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT DUCT PAY ITEM.

NOTE 2. THE CONTRACTOR SHALL BE AWARE OF PERMANENT GROUND ANCHORS AND STEEL TIE RODS. NO ADDITIONAL COMPENSATION SHALL BE PROVIDED DUE TO CONFLICTS.



FILE NAME =	USER NAME = default	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LIGHTING PLANS LAYOUT	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	CONTRACT NO. 78056	ILLINOIS FED. AID PROJECT
M:\28018\Mapstation\0Phase1\10978056-1-light.dgn		DRAWN -	REVISED -									
PLOT SCALE = 100.0000 ' / IN.		CHECKED -	REVISED -									
PLOT DATE = 1/25/2012		DATE -	REVISED -									
				SCALE: 1"=50'		SHEET NO. 3 OF 7 SHEETS		STA.		TO STA.		



All stainless steel and liquid tight flexible non-metallic conduit, including all fittings, bushings, couplings, and elbows shall be included in the cost of the "Junction Box, Stainless Steel, Attached to Structure, 12" x 10" x 6" " pay item.

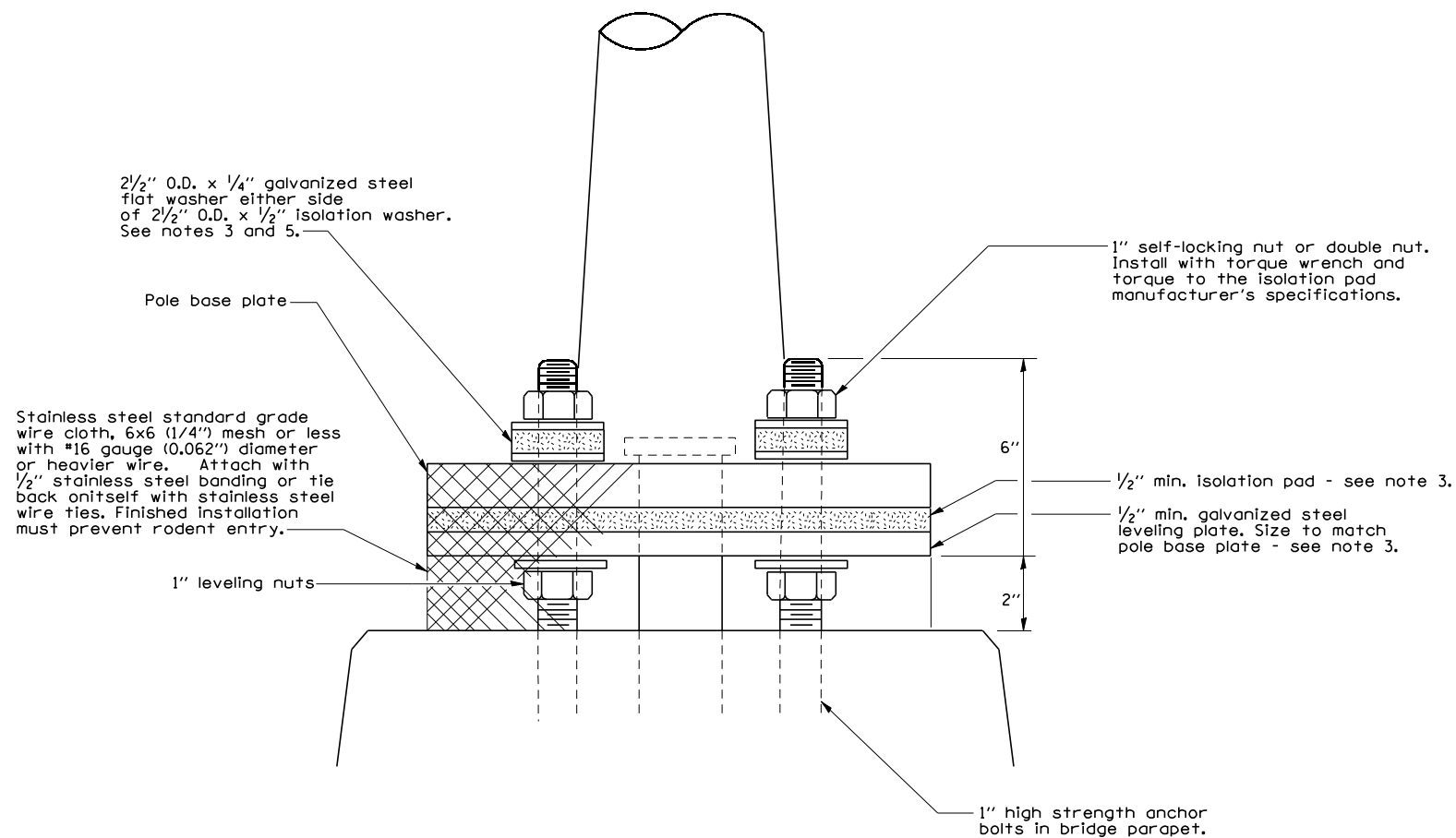


- 1.) The Contractor shall install a conduit expansion/deflection coupling at the joints in the concrete parapet on the bridge capable of accepting the longitudinal movement. All metallic parts of the coupling shall be made of stainless steel or as approved by the Engineer. Any non-stainless metal shall be hot dip galvanized and coated to prevent reaction with the concrete. The cost of the coupling shall be part of and incidental to the conduit system.
- 2.) The barrel in the expansion fitting shall be fully embedded in the concrete on one side of the expansion joint. One half the length of the deflection fitting shall be embedded in the concrete on the other side of the coupling.
- 3.) A cavity opening 3" larger in diameter than the deflection fitting shall be provided in the concrete to ensure proper performance of the coupling.
- 4.) Careful attention to joint movement over a range of temperatures shall be coordinated with the selection and installation of the coupling to ensure the range of movement of the coupling is not exceeded at temperature extremes.
- 5.) All manufacturer's installation instructions shall be carefully followed to ensure optimum performance of the expansion/deflection coupling.
- 6.) The Contractor shall install couplings at all bridge expansion joints and shall be responsible to determine the proper number of couplings required.
- 7.) With the approval of the Engineer, the Contractor may substitute two (2) stainless steel junction boxes attached to the back of the wall and connected by a high grade of flexible non-metallic conduit for all expansion joints. This substitution shall be made at no cost to the Department.

CONDUIT COUPLING EXPANSION / DEFLECTION

All dimensions are in millimeters (inches) unless otherwise shown.

FILE NAME *	USER NAME * default	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				LIGHTING PLANS DETAILS				unless otherwise shown.			
m:\20018\micrstation\@phase\13978056-1-light.dgn	---light.dgn	DRAWN -	REVISED -					F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
PLOT SCALE * 100.0000 / IN.		CHECKED -	REVISED -					331	(12-1B-1)	JACKSON	200	47			
PLOT DATE * 1/25/2012		DATE -	REVISED -					CONTRACT NO. 780556							
SCALE:				SHEET NO. 4 OF 7 SHEETS		STA.	TO STA.		IN. NUMBERED AND REVERT.						

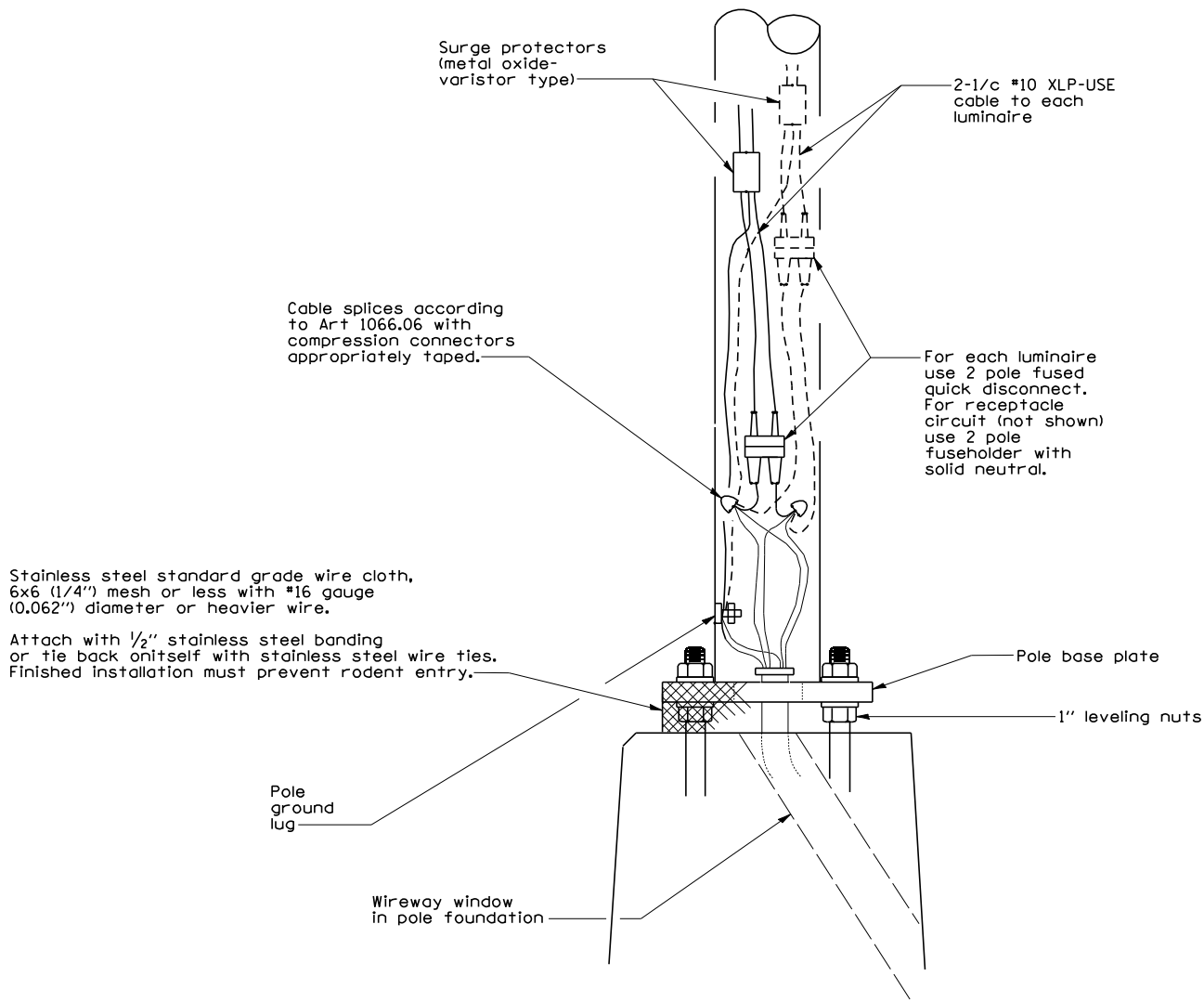


POLE MOUNTED ON BRIDGE PARAPET DETAIL

GENERAL NOTES

- 1.) Locate poles as shown on lighting plans layout sheets.
- 2.) The vibration isolation pad and leveling plate shall match the footprint of the pole base plate.
- 3.) Thickness of isolation pad and washers shall be according to the isolation pad manufacturer's recommendations based upon pole height and loading.
- 4.) Should the length of the exposed anchor bolts be too short on an existing bridge to mount the poles as shown, then the leveling plate shall be mounted directly on the concrete and leveled with stainless steel washers. Remove concrete as directed by the Engineer to fully thread the top nut.
- 5.) The diameter of the flat washer on either side of the isolation washer shall be at least the same as the diameter of the isolation washer.

POLE MOUNTED
ON BRIDGE PARAPET



WIRING DETAIL
NOT TO SCALE

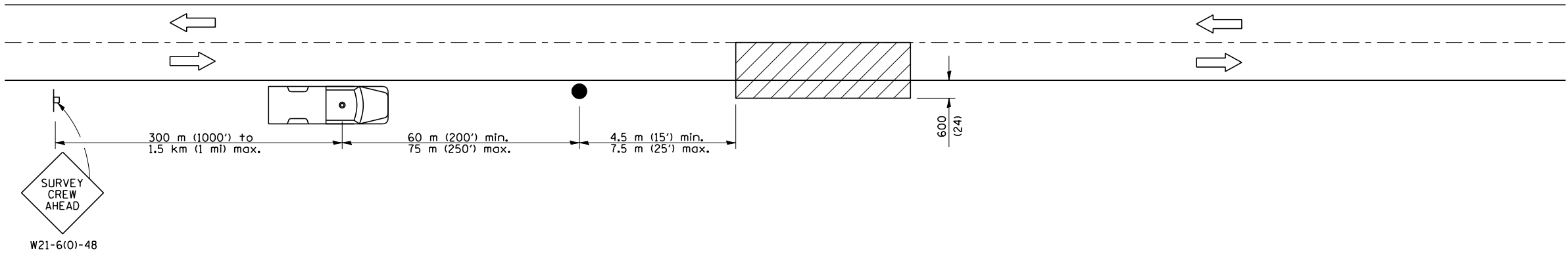
GENERAL NOTES

- 1.) All taped splices shall use 2 layers of electrical tape over 3 layers of rubber tape as required by the Standard Specifications. Coat the finished taped splice with bonding compound.
- 2.) All cable splices shall be taped unless another method has been specifically approved by the Engineer.
- 3.) For example purposes the pole is shown on an anchor base. If the pole is required to be set on a breakaway base, consult the Standard Specifications.

POLE HANDHOLE WIRING

All dimensions are in millimeters (inches) unless otherwise shown.

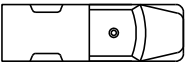
FILE NAME = m:\28018\microstation\0phase\1\0978056-shr-light.dgn	USER NAME = default	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LIGHTING PLANS DETAILS			F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN -	CHECKED -	REVISED -					331	(12-1)B-1	JACKSON	200	48
	PLOT SCALE = 100.0000 ' / IN.	DATE -	REVISED -		SCALE:			CONTRACT NO. 78056				
	PLOT DATE = 1/25/2012				SHEET NO. 5 OF 7 SHEETS			ILLINOIS FED. AID PROJECT				
					STA.			TO STA.				



TYPICAL APPLICATIONS

Utility operations

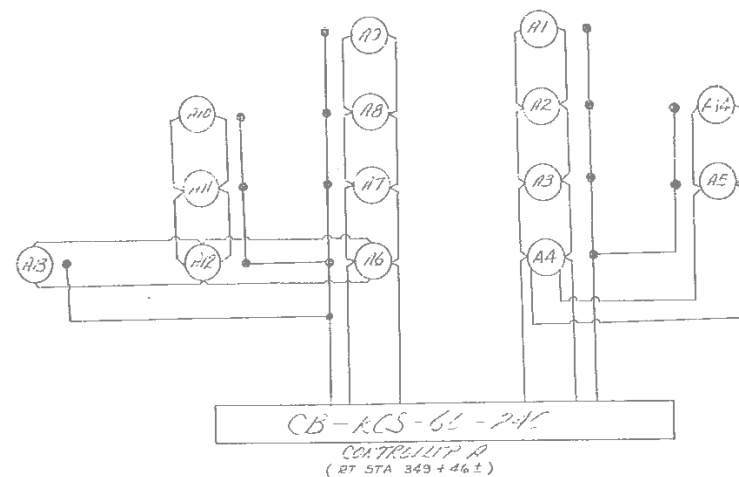
SYMBOLS

-  Work area
-  Sign on portable or permanent support
-  Truck with flashing amber light and dual emergency flashers
-  Flagger with traffic control sign

DETAIL FOR NIGHTTIME LIGHTING INSPECTION

All dimensions are in millimeters (inches) unless otherwise shown.

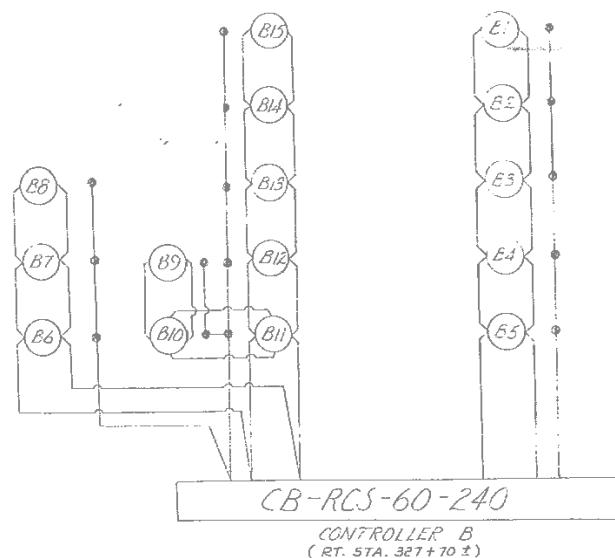
WIRING DIAGRAM



POLE LOCATION

POLE NO.	PATTERN	STATION	MAST ARM	SETBACK *
A1	III	LT. 357+50 (F.A. 14)	8'	14'
A2	III	LT. 355+40 (F.A. 14)	8'	14'
A3	III	LT. 353+30 (F.A. 14)	8'	20'
A4	III	LT. 351+20 (F.A. 14)	8'	20'
A5	III	LT. 349+10 (F.A. 14)	8'	20'
A6	III	RT. 347+00 (F.A. 14)	8'	20'
A7	III	RT. 344+45 (F.A. 14)	8'	20'
A8	III	LT. 342+00 (F.A. 14)	8'	20'
A9	II & III	LT. 340+15 (F.A. 14)	8'	ON PARAPET
A10	III	LT. 338+55 (F.A. 14)	8'	20'
A11	III	LT. 337+50 (F.A. 14)	8'	20'
A12	III	LT. 335+40 (F.A. 14)	8'	20'
A13	III	LT. 333+30 (F.A. 14)	8'	20'
A14	III	LT. 331+20 (F.A. 14)	8'	20'

WIRING DIAGRAM



POLE LOCATION

POLE NO.	PATTERN	STATION	MAST ARM	SETBACK *
B1	II & III	LT. 340+15 (F.A. 14)	4'	ON PARAPET
B2	III	RT. 337+50 (F.A. 14)	8'	14'
B3	III	RT. 334+80 (F.A. 14)	8'	20'
B4	III	RT. 332+20 (F.A. 14)	8'	20'
B5	III	RT. 329+80 (F.A. 14)	8'	20'
B6	III	RT. 327+20 (F.A. 14)	8'	20'
B7	III	RT. 324+75 (F.A. 14)	8'	20'
B8	III	RT. 322+15 (F.A. 14)	8'	20'
B9	III	LT. 323+25 (F.A. 14)	8'	20'
B10	III	LT. 320+90 (F.A. 14)	8'	20'
B11	III	LT. 318+30 (F.A. 14)	8'	20'
B12	III	LT. 315+75 (F.A. 14)	8'	20'
B13	III	LT. 313+35 (F.A. 14)	8'	20'
B14	III	LT. 310+95 (F.A. 14)	8'	20'
B15	III	LT. 308+70 (F.A. 14)	8'	14'

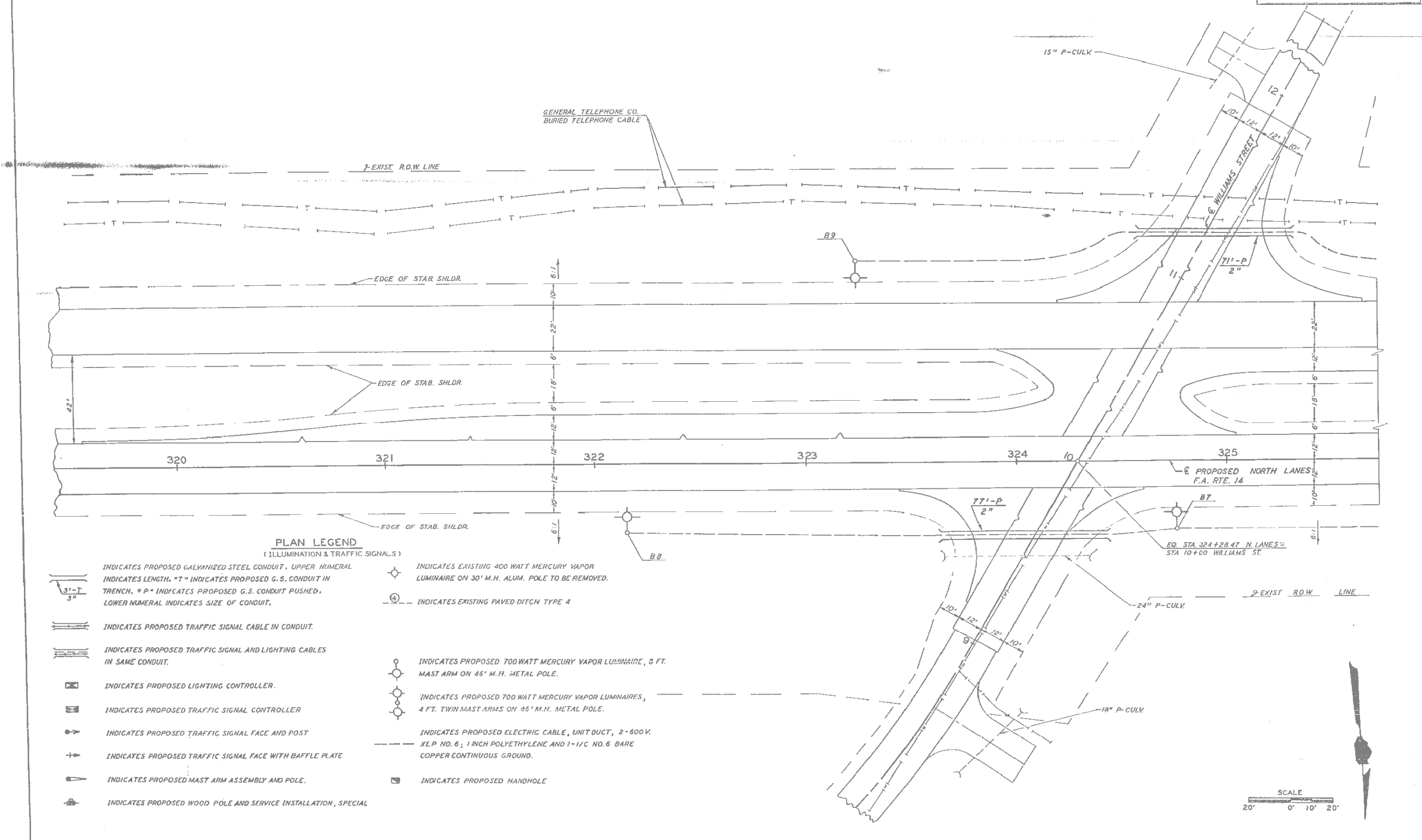
* DISTANCE FROM EDGE PAVEMENT TO CENTER OF POLE FOUNDATION
(SEE SHT. NO. 91.)

SCHEDULE OF CONDUIT (ILLUMINATION)

SECTION	GALV. STEEL CONDUIT 1 1/2" DIA., 2" LIN. FT.	GALV. STEEL CONDUIT 2" DIA., 2" LIN. FT.
B+60 (2 HILLMAN ST.)	77	
H+25 (2 HILLMAN ST.)	71	
NORTH LANE - F.A. 14		
B27+70	44	
LT. 327+70	52	
RT. 333+82	74	
LT. 333+82	77	
RT. 338+55 TO LT. 340+15		178
LT. 340+15 TO RT. 342+87		175
355+23	70	
LT. 355+30	6	
LT. 356+20	28	
LT. 357+00	43	
LT. 357+00 (F.A. RTE 10.)	57	
2" DIA. CONDUIT 5'	43	
TOTALS	635	353

F.A. RTE. 14 SEC. 12-2 JACKSON CO. (ILLUMINATION)

ROUTE NO.	SEC	COUNTY	TOTAL SHEETS	SHEET NO.
EA. 14	12-2	JACKSON	204	83
FILE NAME NO. 7	REVISED	PROJECT		



PLAN LEGEND
(ILLUMINATION & TRAFFIC SIGNALS)

- | | |
|--|--|
| <p>INDICATES PROPOSED GALVANIZED STEEL CONDUIT. UPPER NUMERAL INDICATES LENGTH. *T* INDICATES PROPOSED G.S. CONDUIT IN TRENCH. *P* INDICATES PROPOSED G.S. CONDUIT PUSHED. LOWER NUMERAL INDICATES SIZE OF CONDUIT.</p> <p>INDICATES PROPOSED TRAFFIC SIGNAL CABLE IN CONDUIT.</p> <p>INDICATES PROPOSED TRAFFIC SIGNAL AND LIGHTING CABLES IN SAME CONDUIT.</p> <p>INDICATES PROPOSED LIGHTING CONTROLLER.</p> <p>INDICATES PROPOSED TRAFFIC SIGNAL CONTROLLER.</p> <p>INDICATES PROPOSED TRAFFIC SIGNAL FACE AND POST.</p> <p>INDICATES PROPOSED TRAFFIC SIGNAL FACE WITH BAFFLE PLATE.</p> <p>INDICATES PROPOSED MAST ARM ASSEMBLY AND POLE.</p> <p>INDICATES PROPOSED WOOD POLE AND SERVICE INSTALLATION, SPECIAL.</p> | <p>INDICATES EXISTING 400 WATT MERCURY VAPOR LUMINAIRE ON 30' M.H. ALUM. POLE TO BE REMOVED.</p> <p>INDICATES EXISTING PAVED DITCH TYPE 4.</p> <p>INDICATES PROPOSED 700 WATT MERCURY VAPOR LUMINAIRE, 8 FT. MAST ARM ON 46' M.H. METAL POLE.</p> <p>INDICATES PROPOSED 700 WATT MERCURY VAPOR LUMINAIRES, 4 FT. TWIN MAST ARMS ON 46' M.H. METAL POLE.</p> <p>INDICATES PROPOSED ELECTRIC CABLE, UNIT DUCT, 2-600 V. XLP NO. 6; 1 INCH POLYETHYLENE AND 1-1/2" NO. 6 BARE COPPER CONTINUOUS GROUND.</p> <p>INDICATES PROPOSED HANDHOLE.</p> |
|--|--|



EA. RTE. 14 SECTION 12-2 JACKSON COUNTY (ILLUMINATION) STA. 320 +00 TO 325 +73

FILE NAME =	USER NAME = default	DESIGNED -	REVISED -
D978056-shr-ex-light.dgn		DRAWN -	REVISED -
	PLOT SCALE = 40.0000' / IN.	CHECKED -	REVISED -
	PLOT DATE = 1/25/2012	DATE -	REVISED -

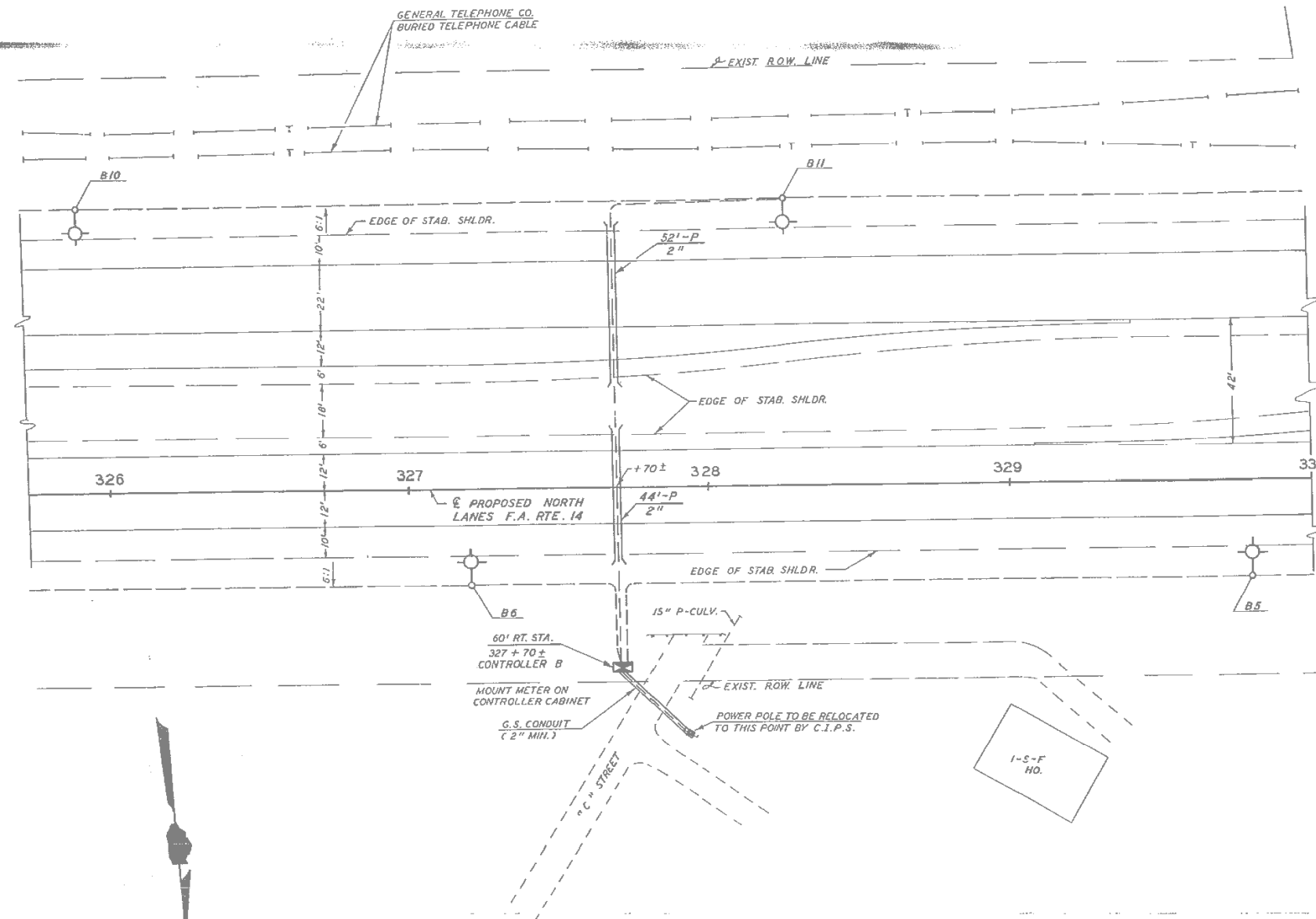
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EXISTING LIGHTING PLANS
(FOR INFORMATION ONLY)**

SCALE: SHEET NO. 2 OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
331	(12-1) B-1	JACKSON	200	52
CONTRACT NO. 78056				
ILLINOIS FED. AID PROJECT				

SECTION	SHEET NO.	COUNTY	TOTAL SHEETS	SHEET NO.
EA. 14 12-2	JACKSON	204	84	



SCALE
20' 0' 10' 20'

FA. RTE. 14 SEC. 12-2 JACKSON CO. (ILLUMINATION) STA. 325+73 TO 330+00

FILE NAME =
D978056-shr-ex-light.dgn

USER NAME = default
PLOT SCALE = 40.0000' / IN.
PLOT DATE = 1/25/2012

DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED -
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REVISED -

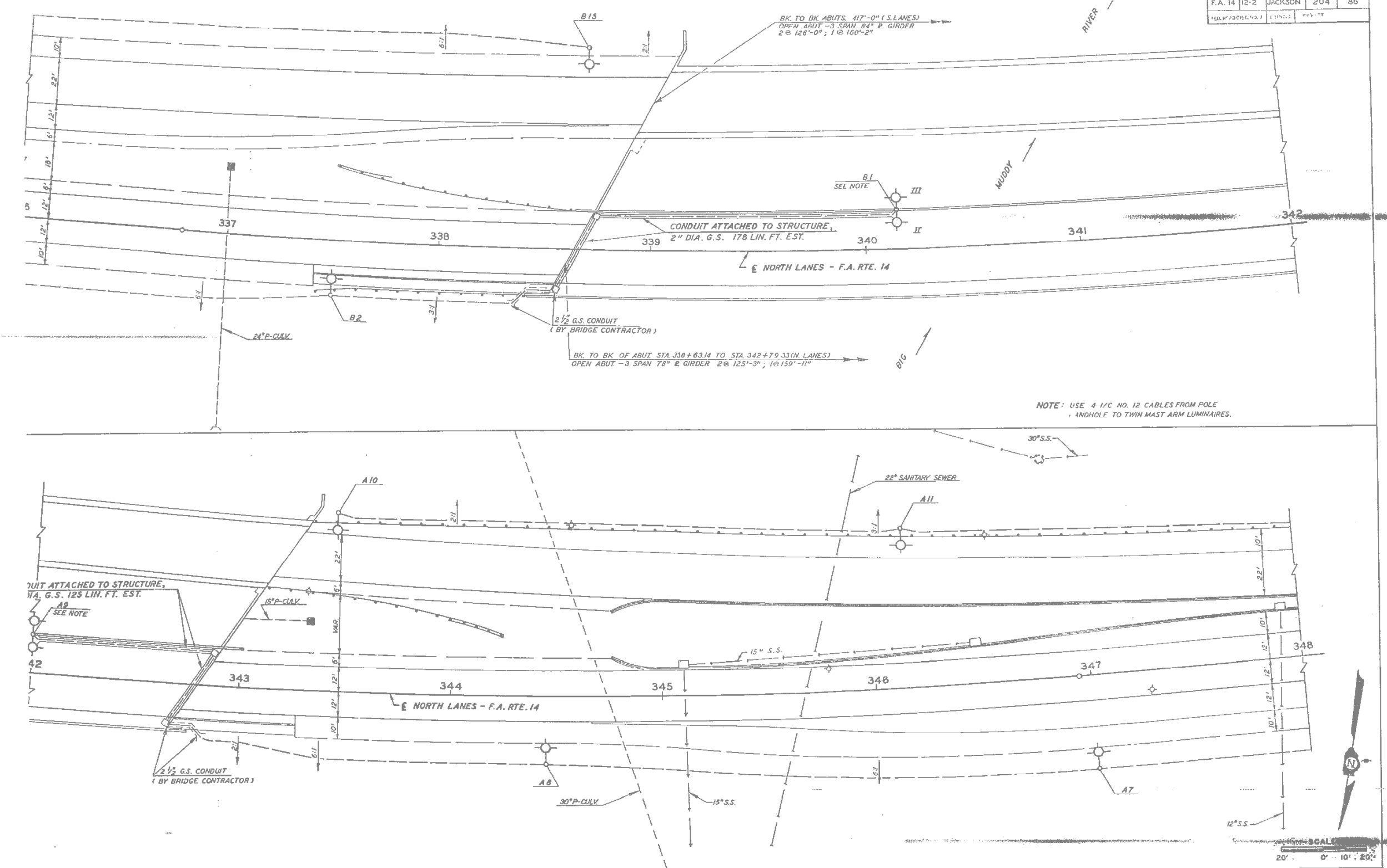
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING LIGHTING PLANS
(FOR INFORMATION ONLY)

SCALE: SHEET NO. 3 OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
331	(12-1) B-1	JACKSON	200	53
CONTRACT NO. 78056				
ILLINOIS FED. AID PROJECT				

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 14	12-2	JACKSON	204	86
YEAR OF DESIGN	DESIGNED BY	DATE		



F.A. RTE. 14 SEC. 12-2 JACKSON COUNTY (ILLUMINATION) STA. 336+00 TO 348+00

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PLOT SCALE = 40.0000' / IN.
PLOT DATE = 1/25/2012

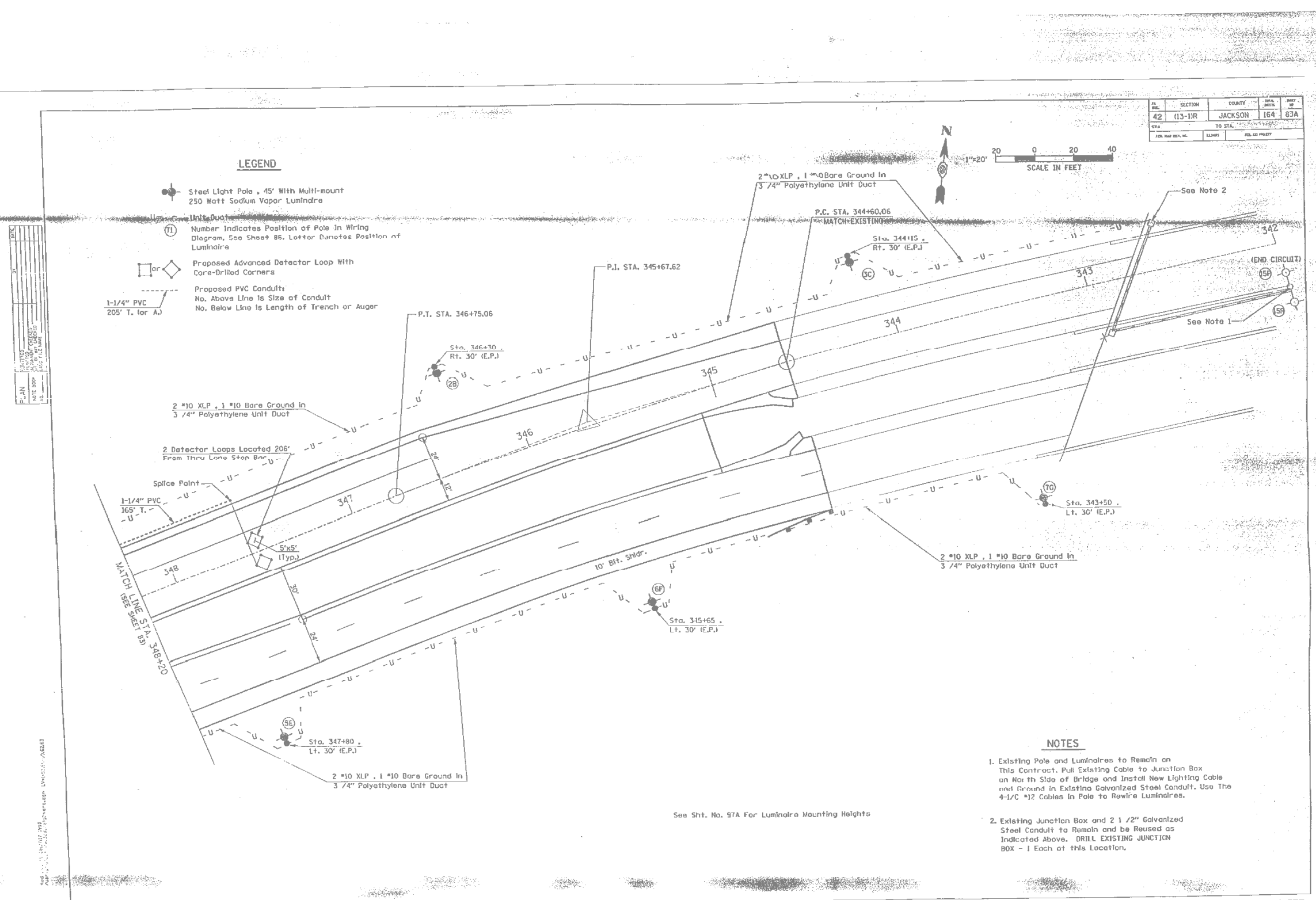
DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING LIGHTING PLANS
(FOR INFORMATION ONLY)

SCALE: SHEET NO. 5 OF 9 SHEETS STA. TO STA.

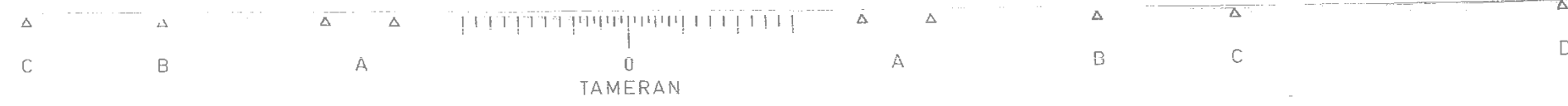
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
331	(12-1) B-1	JACKSON	200	55
CONTRACT NO. 78056				
ILLINOIS FED. AID PROJECT				



PLAN	DATE	BY
NOTE BOOK	DATE	BY
FILE NAME	DATE	BY

400 342 343 344 345 346 347 348
UNUSUAL: 060603

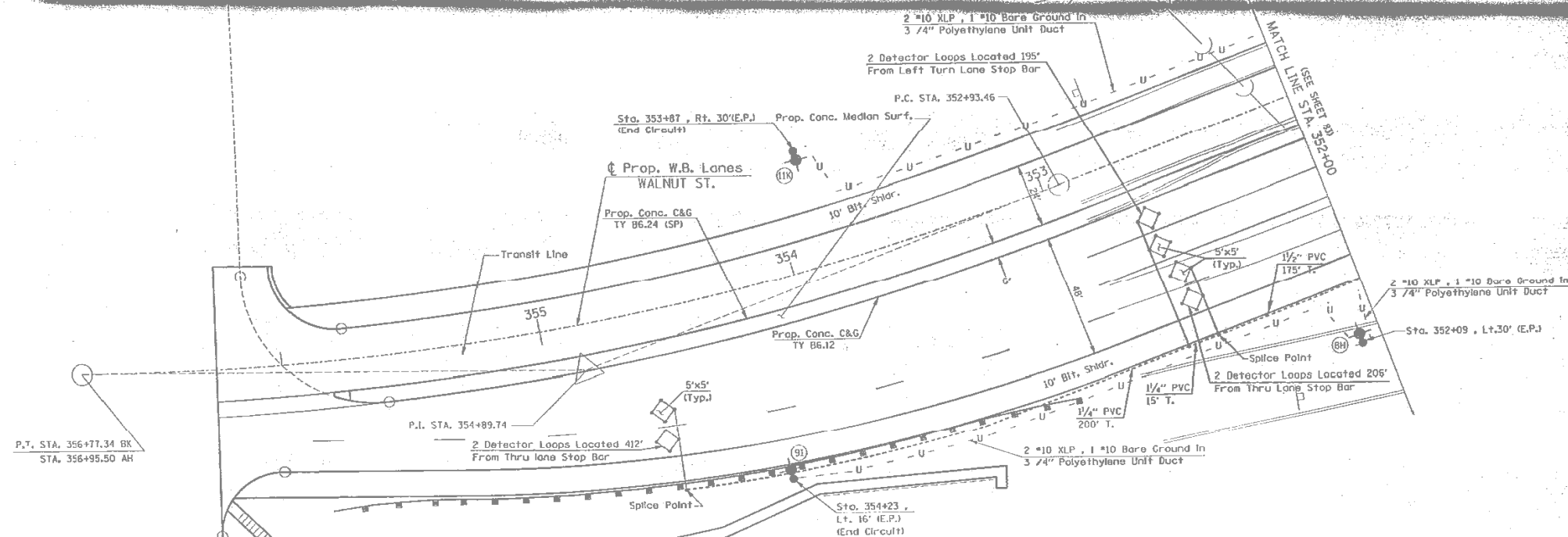
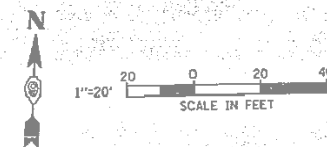
ILL. 13 & 127 & 149 AND WALNUT STREET TRAFFIC SIGNALS & LIGHTING - PLAN SHEET



See Sht. No. 97A For Luminaire Mounting Heights
FOR NOTES SEE SHEET NO. 83

LEGEND

- Steel Light Pole, 45' With Multi-mount
250 Watt Sodium Vapor Luminaire
- Unit Duct
- Number Indicates Position of Pole In Wiring
Diagram, See Sheet 85. Letter Denotes Position of
Luminaire
- Proposed Advanced Detector Loop With
Core-Drilled Corners
- Proposed PVC Conduits
No. Above Line Is Size of Conduit
No. Below Line Is Length of Trench or Auger
- 1-1/4" PVC
205' T. 16' (A)



ILL. 13 & 127 & 149 AND WALNUT STREET TRAFFIC SIGNALS & LIGHTING PLAN SHEET

FILE NAME =
D978056-sht-ex-light.dgn

USER NAME = default
PLOT SCALE = 40.0000' / IN.
PLOT DATE = 1/25/2012

DESIGNED -
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DATE -

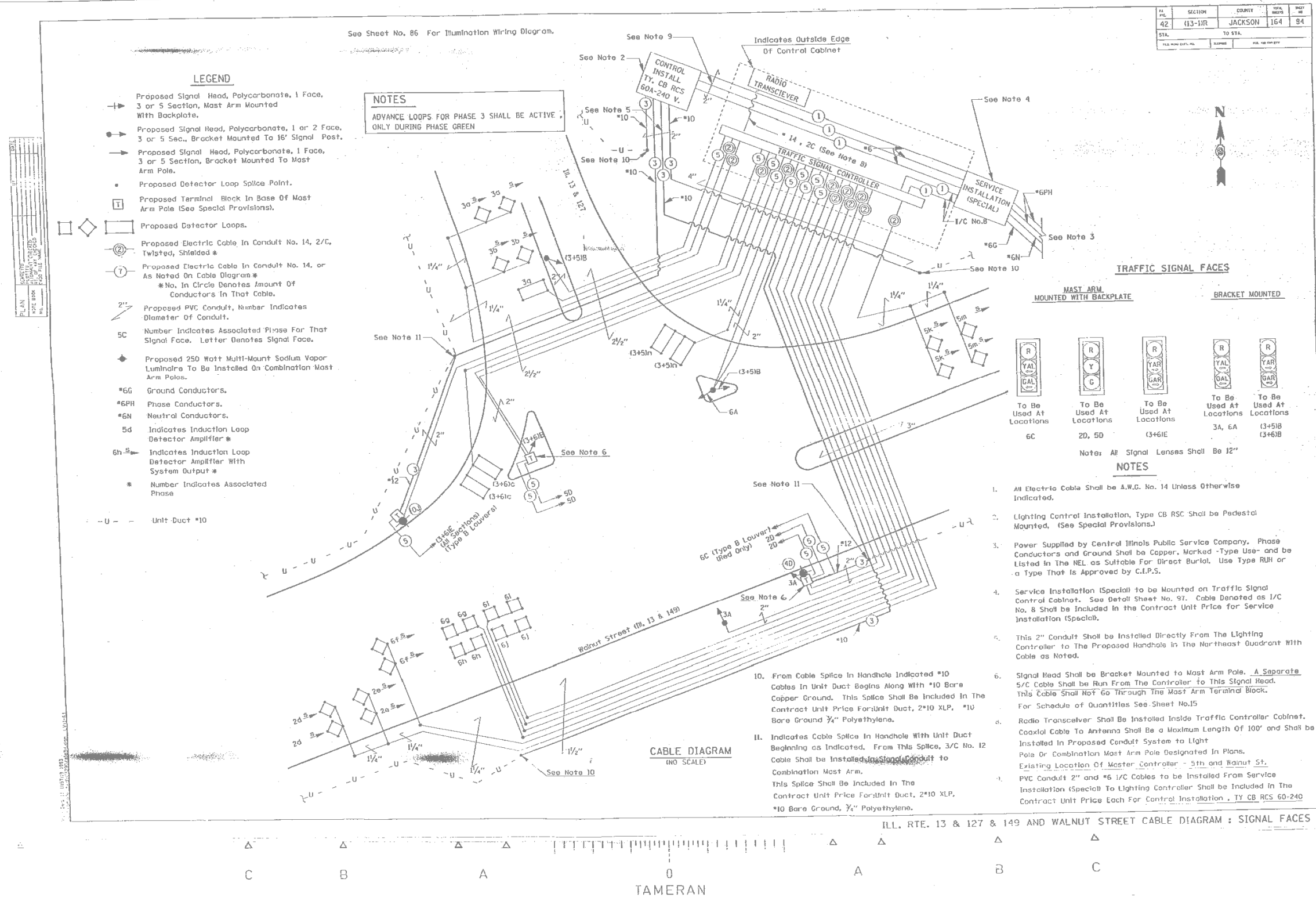
REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING LIGHTING PLANS
(FOR INFORMATION ONLY)

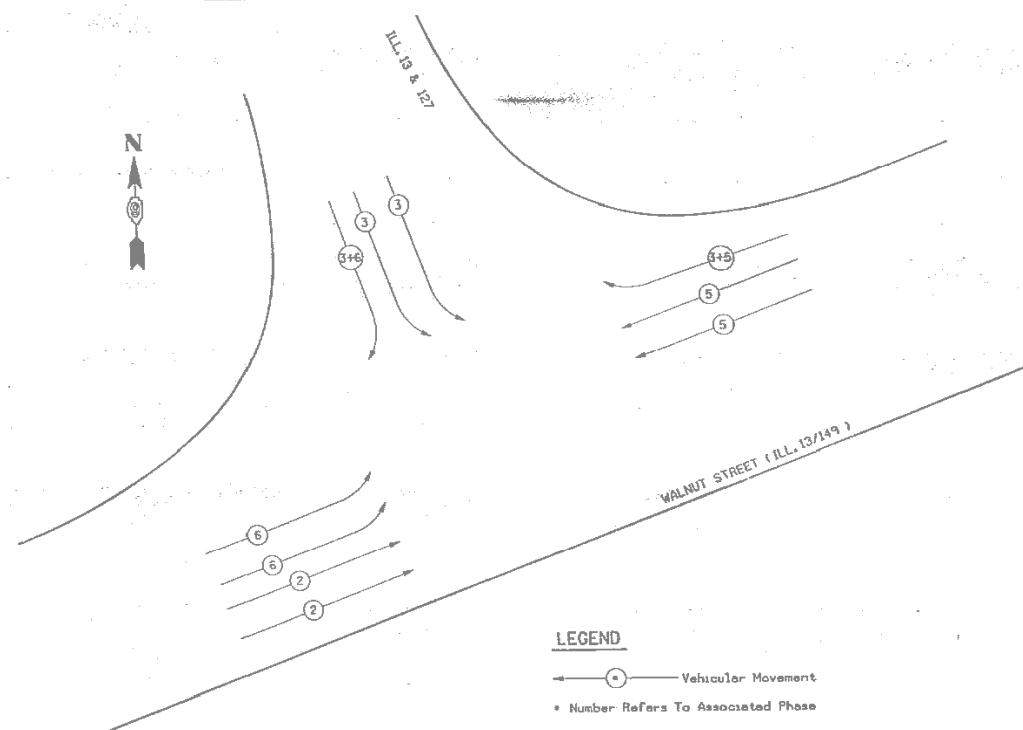
SCALE: SHEET NO. 7 OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
331	(12-1) B-1	JACKSON	200	57
CONTRACT NO. 78056				
ILLINOIS FED. AID PROJECT				



PL. NO.	SECTION	COUNTY	SHEET NO.	SHEET TOTAL
42	(13-1R)	JACKSON	164	85
STA.	TO STA.			
POL. AND REF. NO.	SUBMIT			

PHASE DESIGNATION DIAGRAM

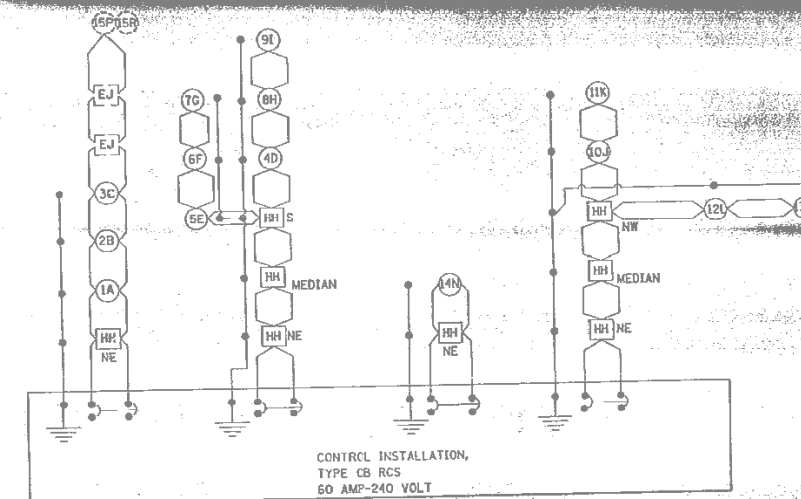


NAME OF INTERSECTION: Walnut Street and ILL. 13 & 127 & 149

CONTROLLER SPECIFIED: Full Actuated Controller, Standard Sequence IV, 8 Phases In Type IV Cabinet.

REFERRING TO STANDARD 2393-1, THE VEHICULAR AND PEDESTRIAN PHASES USED ARE DESIGNATED ON DIAGRAM.

WIRING DIAGRAM FOR LIGHTING



- NOTES**
- For Size and Type of Cable Used For Lighting Installation, See Cable Diagram, Sht. No. 84.
 - Power to Control Installation Shall be as Shown on Detail Sht. No. 84.
 - Electrical Service Required For Lighting and Signal Installation Shall be A 60 AMP-240 Volt Service.

LEGEND FOR WIRING DIAGRAM

- Indicates Proposed Handhole With Lighting Cable Splice. Letters Below Indicate Quadrant Location of Handhole.
- Number Indicates Position of Proposed Pole in Wiring Diagram. Letter Indicates Luminaire on That Pole.
- Indicates Continuous Ground From Control Installation.
- Indicates Existing Pole and Luminaire to Remain.
- Existing Junction Box to be Re-Used.
- Indicates Proposed Ground at Structure.

ILL. RTE. 13 & 127 & 149 AND WALNUT STREET-PHASE DESIGNATION AND WIRING DIAGRAM FOR LIGHTING

TAMERAN

FILE NAME = D978056-sht-ex-light.dgn	USER NAME = default	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING LIGHTING PLANS (FOR INFORMATION ONLY)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -			331	(12-1) B-1	JACKSON	200	59
		CHECKED -	REVISED -			CONTRACT NO. 78056				
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT				