

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A. SITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D4 LIGHTING UPGRADE 2020	VARIOUS	18	1
		ILLINOIS	CONTRACT NO. 68F56	

D-94-046-20

INDEX OF SHEETS:
SEE SHEET 2 FOR INDEX OF SHEETS

PROPOSED
HIGHWAY PLANS

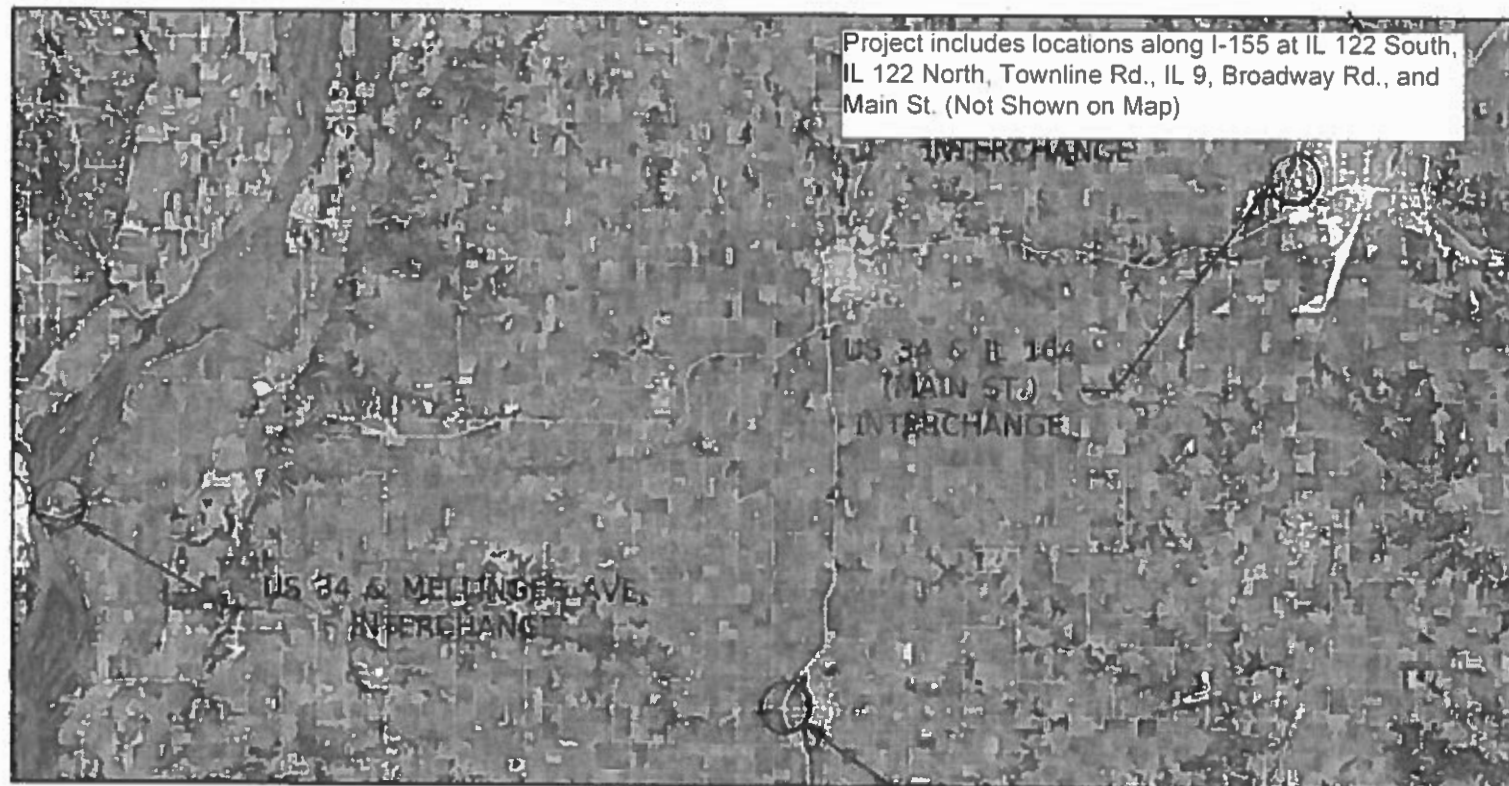
VARIOUS ROUTES
D4 LIGHTING UPGRADE 2020
VARIOUS COUNTIES

C-94-070-20



HIGHWAY STANDARDS:
SEE SHEET 2 FOR A LIST OF
APPLICABLE HIGHWAY STANDARDS

PROJECT DESCRIPTION:
LUMINAIRE REPLACEMENT AND
MISCELLANEOUS ELECTRICAL WORK
AT VARIOUS LOCATIONS IN
DISTRICT FOUR



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

PROJECT ENGINEER : ERIC HOWALD (309) 671-4481
PROJECT MANAGER : BEN TELLEFSON (309) 671-4477
CATALOG NO. 036047-00D
CONTRACT NO. 68F56

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED 2-7 20 20

Kenneth A. Garnett
REGIONAL ENGINEER

March 20 2020
ENGINEER OF DESIGN AND ENVIRONMENT

March 20 2020
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION 13

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

NO COMMITMENTS HAVE BEEN MADE IN CONJUNCTION WITH THIS PROJECT.

INDEX OF SHEETS	
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2	COMMITMENTS, INDEX OF SHEETS, HIGHWAY STANDARDS
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17	EXISTING LIGHTING PLANS: I-155 & BROADWAY RD. INTERCHANGE (EXIT 28)
18	EXISTING LIGHTING PLANS: I-155 & MAIN ST. INTERCHANGE

HIGHWAY STANDARDS	
000001-07	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH & FOOT
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
701301-04	LANE CLOSURE, 2 LANE, 2 WAY, SHORT TIME OPERATIONS
701400-09	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701406-12	LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY
701411-09	LANE CLOSURE, MULTILANE, ENTRANCE OR EXIT RAMP, FOR SPEEDS ≥ 45 MPH
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER FOR SPEEDS ≥ 45 MPH
701456-05	PARTIAL EXIT RAMP CLOSURE FREEWAY/ EXPRESSWAY
701901-08	TRAFFIC CONTROL DEVICES
821101-02	LUMINAIRE WIRING IN POLE
838001-01	BREAKAWAY DEVICES

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	DRAWN -	REVISED -
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PLOT DATE = 4/7/2020	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**COMMITMENTS, INDEX OF SHEETS, HIGHWAY STANDARDS,
AND CONSTRUCTION NOTES**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D4 LIGHTING UPGRADE 2020	VARIOUS	18	2
			CONTRACT NO. 68F56	
		ILLINOIS	FED. AID PROJECT	

CONSTRUCTION NOTES

1. EXISTING UTILITY LOCATION INFORMATION IS NOT SHOWN ON THE PLAN SHEETS. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL UTILITIES AND PRIVATELY OWNED FACILITIES PRIOR TO THE INSTALLATION OF ANY COMPONENTS. THE CONTRACTOR SHALL VERIFY EXISTING FIELD CONDITIONS AND TERRAIN PRIOR TO COMMENCING WORK ON THE PROJECT.
2. THE LOCATION OF ALL UTILITIES AND PRIVATELY OWNED FACILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO THE INSTALLATION OF ANY COMPONENTS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING EXISTING IDOT ELECTRICAL FACILITIES AT HIS/HER OWN EXPENSE IF REQUIRED. THE CONTRACTOR SHALL ALSO BE LIABLE FOR ANY DAMAGE TO IDOT FACILITIES RESULTING FROM INACCURATE LOCATING.
4. ELECTRICAL WORK SHALL CONFORM WITH NATIONAL, STATE, AND LOCAL CODES.
5. THE CONTRACTOR SHALL PROVIDE ELECTRICAL CABLE SLACK IN ACCORDANCE WITH ARTICLE 873.03.
6. ALL SURPLUS MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS.
7. THE CONTRACTOR SHALL VERIFY FIELD CONDITIONS PRIOR TO BIDDING. THERE WILL BE NO ADDITIONAL COMPENSATION PAID FOR CLAIMS THAT ARISE FROM A FAILURE TO FULLY INVESTIGATE EXISTING FIELD CONDITIONS.
8. ANY MAINTENANCE OF EXISTING ELECTRICAL FACILITIES WILL BE CONSIDERED EXTRA WORK IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.
9. ELECTRICAL CABLE WILL BE MEASURED FOR PAYMENT IN ACCORDANCE WITH ARTICLE 873.04.
10. THE CCTV CAMERA SHALL BE INSTALLED AT A MINIMUM MOUNTING HEIGHT OF 43 FT.
11. THE EXISTING LIGHTING SHALL REMAIN IN OPERATION DURING THE INSTALLATION OF THE PROPOSED LUMINAIRES.
12. REMOVAL OF EXISTING ITEMS (LUMINAIRES, WIRING, ETC.) WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE UNIT BID PRICES FOR THE PROPOSED ITEMS. THE CONTRACTOR SHALL DISPOSE OF ALL ITEMS OFF OF THE RIGHT OF WAY.
13. THE CONTRACTOR SHALL FURNISH AND INSTALL NEW FUSEHOLDERS, FUSES, SURGE ARRESTORS, AND WIRING FOR EACH LUMINAIRE IN ACCORDANCE WITH HIGHWAY STANDARD 821101-02. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF THE PROPOSED LUMINAIRES.
14. THE CONTRACTOR SHALL FURNISH 1 FT. GALVANIZED STEEL LUMINAIRE ARMS AND INSTALL THEM ONTO THE EXISTING TENON TOP LIGHT POLES. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF THE PROPOSED LUMINAIRES.
15. THE CONTRACTOR SHALL COVER ALL EXPOSED RODENT ENTRYWAYS GREATER THAN 0.25 INCHES AROUND COUPLINGS, ANCHOR BOLT SLOTS, ETC. TO PREVENT RODENT ENTRY. THIS WORK SHALL BE COMPLETED TO THE SATISFACTION OF THE ENGINEER. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF THE PROPOSED LUMINAIRE.
16. THE CONTRACTOR SHALL FURNISH AND INSTALL A TWIN TENON LUMINAIRE BRACKET FOR ALL LOCATIONS AS SHOWN IN THE PLANS. THE BRACKET SHALL ACCOMMODATE THE INSTALLATION OF TWO ROADWAY LUMINAIRES AT 90 DEGREES. THE COST OF THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE BID PRICE OF THE LUMINAIRES.
17. THE CONTRACTOR SHALL REMOVE THE BREAKAWAY COUPLINGS FROM THE EXISTING LIGHT POLES. THE CONTRACTOR SHALL FURNISH AND INSTALL NEW BREAKAWAY COUPLINGS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. THE CONTRACTOR SHALL FURNISH ALL HARDWARE AND OTHER ITEMS REQUIRED FOR INSTALLATION OF THE BREAKAWAY COUPLINGS. THE COST OF THIS WORK SHALL BE INCLUDED IN THE PAY ITEM "BREAKAWAY DEVICE, COUPLING WITH STAINLESS STEEL SCREEN."
19. THE CONTRACTOR SHALL REMOVE HPS LAMPS FROM THE EXISTING FIXTURES PRIOR TO DISPOSAL. THE HPS LAMPS SHALL BE DISPOSED OF AT A CERTIFIED RECYCLING FACILITY. THE COST OF THIS WORK SHALL BE INCLUDED IN THE BID PRICE OF THE PROPOSED LUMINAIRES.
20. THE EXISTING CAMERA BRACKET AND CAT5E CABLE SHALL BE USED WITH THE PROPOSED CCTV CAMERA AT THE INTERSECTION OF US 67 & IL 116.

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PLOT DATE = 2/7/2020	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PROPOSED LED LUMINAIRE INSTALLATION DETAILS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D4 LIGHTING UPGRADE 2020	VARIOUS	18	3
			CONTRACT NO. 68F56	
		ILLINOIS	FED. AID PROJECT	

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SUMMARY OF QUANTITIES							
PAY ITEM	ITEM DESCRIPTION	UNIT	TOTAL QTY.	HENDERSON COUNTY	KNOX COUNTY	TAZEWELL COUNTY	WARREN COUNTY
				CONST. TYPE CODE 0021 VARIOUS ROUTES 100% STATE RURAL	CONST. TYPE CODE 0021 VARIOUS ROUTES 100% STATE RURAL	CONST. TYPE CODE 0021 VARIOUS ROUTES 100% STATE RURAL	CONST. TYPE CODE 0021 VARIOUS ROUTES 100% STATE RURAL
67100100	MOBILIZATION	L SUM	1.0	0.25	0.10	0.60	0.05
82110000	INDEPENDENT LUMINAIRE TESTING	L SUM	1.0	0.20	0.10	0.65	0.05
82110008	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	126.0	26.0	13.0	83.0	4.0
82500330	LIGHTING CONTROLLER, PEDESTAL MOUNTED, 240VOLT, 60AMP	EACH	7.0	1.0	1.0	5.0	
83800650	BREAKAWAY DEVICE, COUPLING WITH STAINLESS STEEL SCREEN	EACH	84.0	84.0			
X0320023	CLOSED CIRCUIT TELEVISION DOME CAMERA, HD	EACH	1.0				1.0
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1.0	0.25	0.10	0.60	0.05

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D4 LIGHTING UPGRADE 2020	VARIOUS	18	4
			CONTRACT NO. 68F20	
		ILLINOIS	FED. AID PROJECT	

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	TOTAL QTY.	HENDERSON COUNTY		KNOX COUNTY	TAZEWELL COUNTY					WARREN COUNTY
			LIGHTING	LIGHTING	LIGHTING	LIGHTING	LIGHTING	LIGHTING	LIGHTING	LIGHTING	LIGHTING / ITS
			US 34 & MELLINGER AVE. INTERCHANGE	US 34 & CARMAN RD. TRAFFIC SIGNALS	US 34 & IL 164 (MAIN ST.) INTERCHANGE	I-155 @ IL 122 SOUTH (EXIT 15)	I-155 @ IL 122 NORTH (EXIT 18)	I-155 @ TOWNLINE RD (EXIT 22)	I-155 @ IL 9 (TREMONT) (EXIT 21)	I-155 @ BROADWAY (EXIT 28)	US 67 & IL 116
MOBILIZATION	L SUM	1.0	0.25		0.10	0.15	0.15	0.10	0.10	0.10	0.05
LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	126.0	22.0	4.0	13.0	21.0	18.0	12.0	14.0	18.0	4.0
LIGHTING CONTROLLER, PEDESTAL MOUNTED, 240VOLT, 60AMP	EACH	7.0	1.0		1.0	1.0	1.0	1.0	1.0	1.0	
BREAKAWAY DEVICE, COUPLING WITH STAINLESS STEEL SCREEN	EACH	84.0	84.0								
CLOSED CIRCUIT TELEVISION DOME CAMERA, HD	EACH	1.0									1.0
TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1.0	0.25		0.10	0.15	0.15	0.10	0.10	0.10	0.05

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PLOT DATE = 4/7/2020	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES	
SCALE:	SHEET OF SHEETS STA. TO STA.

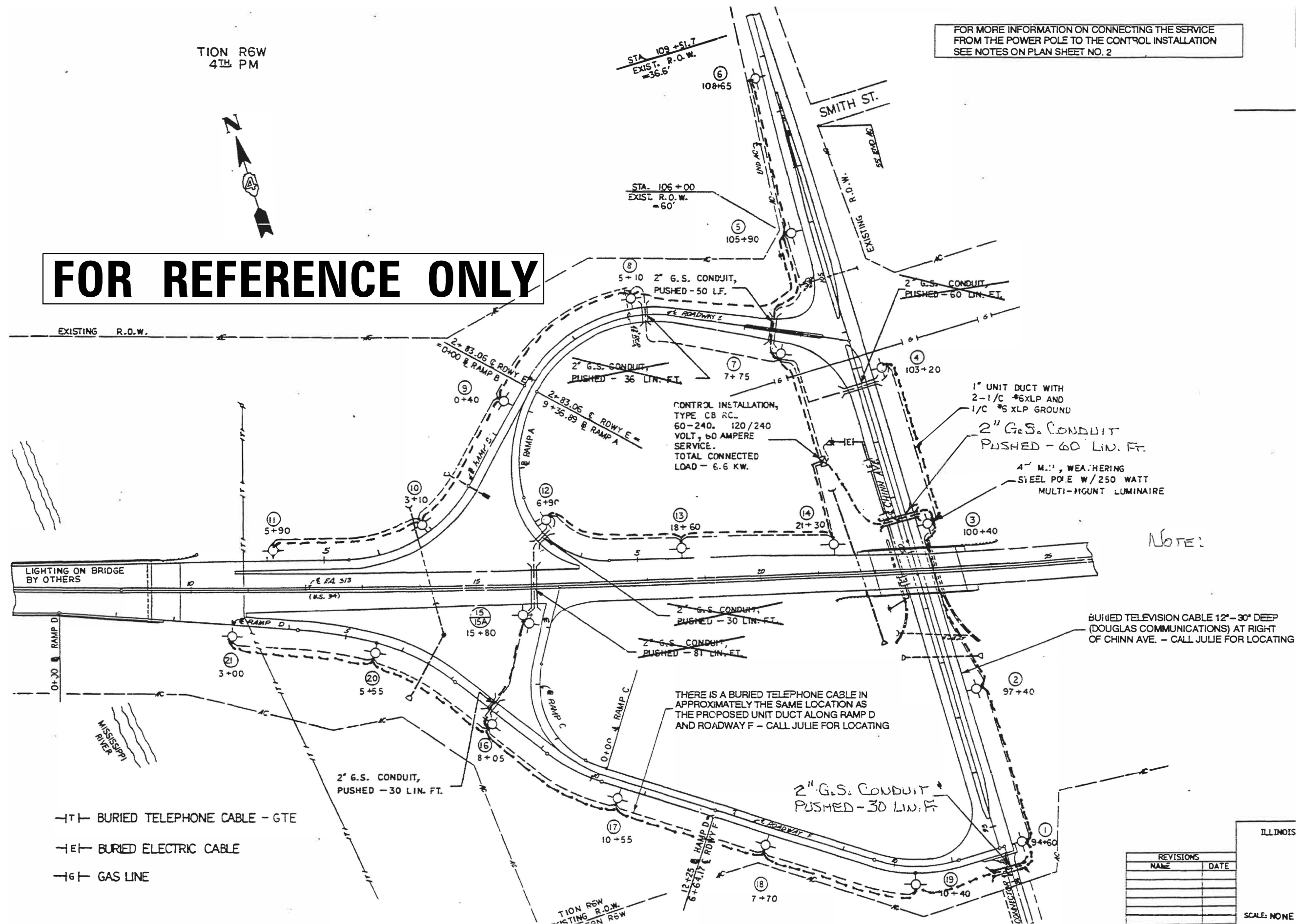
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VAR.	D4 LIGHTING UPGRADE 2020	VARIOUS	18	5
			CONTRACT NO. 68F56	
		ILLINOIS	FED. AID PROJECT	

TION R6W
4TH PM



FOR REFERENCE ONLY

FOR MORE INFORMATION ON CONNECTING THE SERVICE FROM THE POWER POLE TO THE CONTROL INSTALLATION SEE NOTES ON PLAN SHEET NO. 2



Note:

BURIED TELEVISION CABLE 12" - 30" DEEP (DOUGLAS COMMUNICATIONS) AT RIGHT OF CHINN AVE. - CALL JULIE FOR LOCATING

THERE IS A BURIED TELEPHONE CABLE IN APPROXIMATELY THE SAME LOCATION AS THE PROPOSED UNIT DUCT ALONG RAMP D AND ROADWAY F - CALL JULIE FOR LOCATING

- T- BURIED TELEPHONE CABLE - GTE
- E- BURIED ELECTRIC CABLE
- G- GAS LINE

REVISIONS	
NAME	DATE

ILLINOIS
SCALE: NONE

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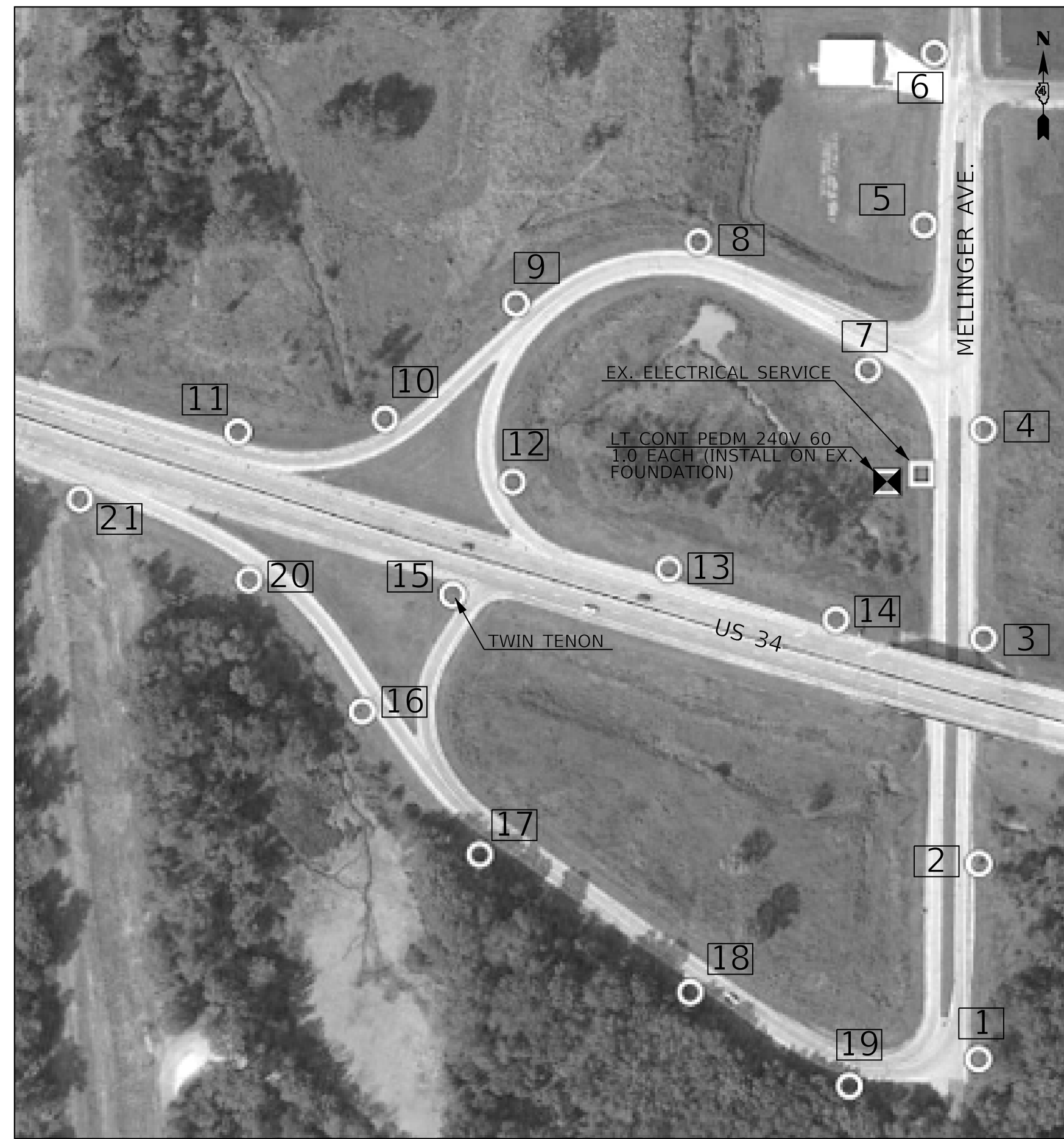
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	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

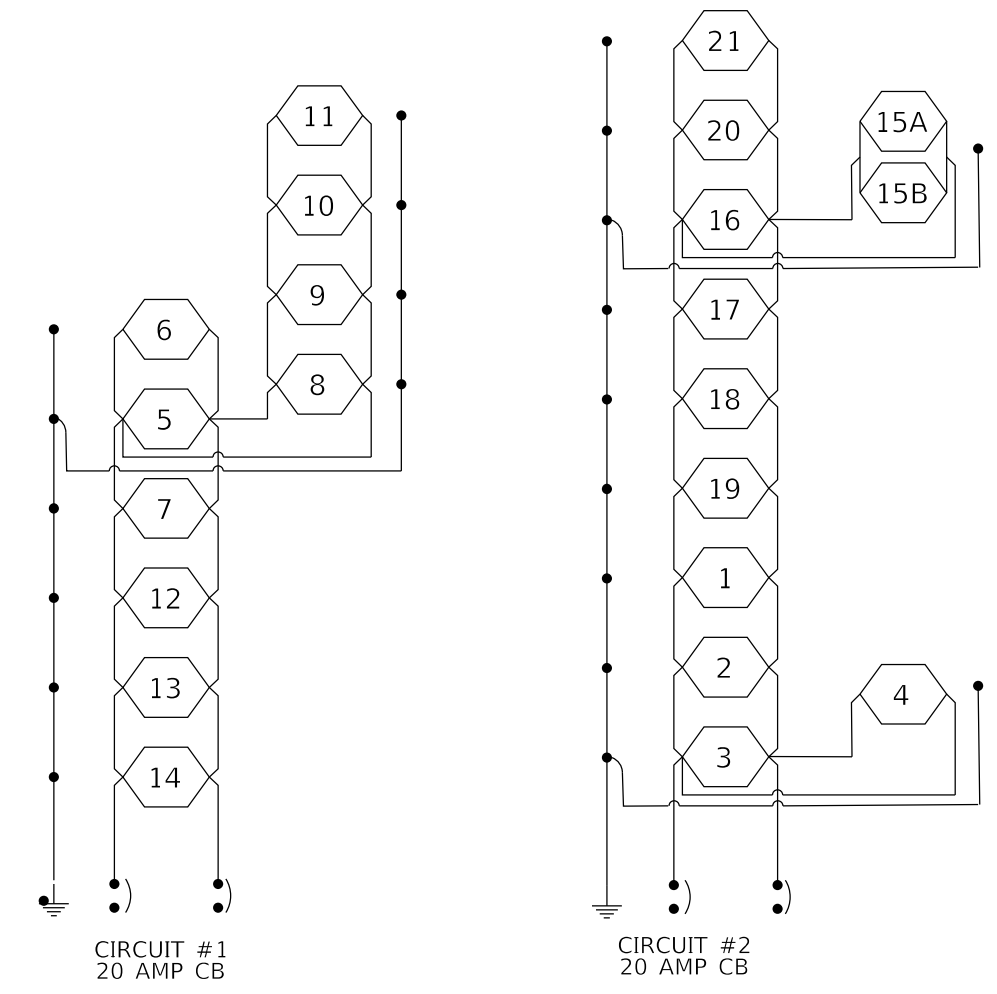
EXISTING LIGHTING PLANS	
US 34 & MELLINGER AVE. INTERCHANGE - GULFPORT	
SCALE:	SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D4 LIGHTING UPGRADE 2020	HENDERSON	18	6
CONTRACT NO. 68F56			ILLINOIS FED. AID PROJECT	



BILL OF MATERIALS US 34 & MELLINGER AVE. - GULFPORT		
ITEM DESCRIPTION	UNIT	QTY.
LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	22.0
LIGHTING CONTROLLER, PEDESTAL MOUNTED, 240VOLT, 60AMP	EACH	1.0
BREAKAWAY DEVICE, COUPLING WITH STAINLESS STEEL SCREEN	EACH	84.0

WIRING DIAGRAM



UA 34 & MELLINGER AVE. INTERCHANGE LIGHTING CONTROLLER
CONTROL INSTALLATION TYPE CB-RCS-60-240

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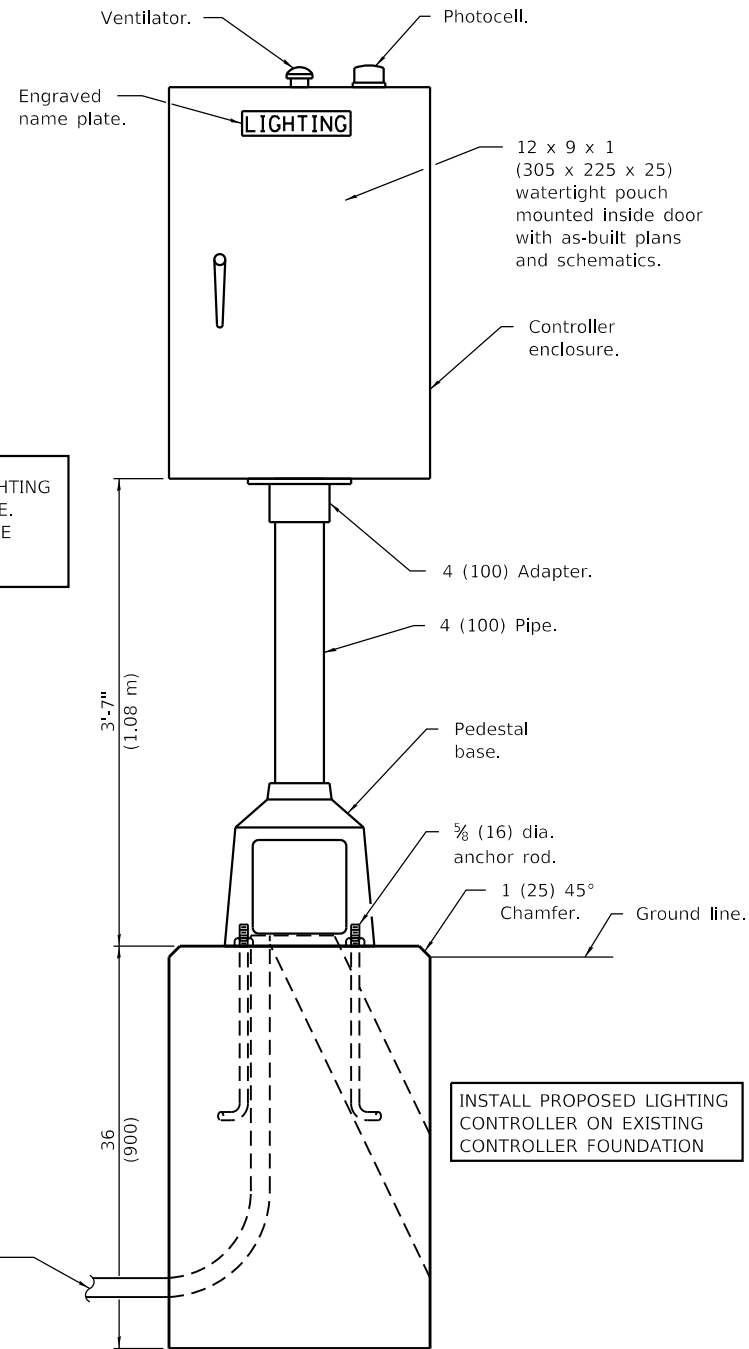
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PLOT SCALE = 42.9315 ' / in.	CHECKED -	REVISED -
PLOT DATE = 2/7/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED LUMINAIRE REPLACEMENT
US 34 & MELLINGER AVE. INTERCHANGE - GULFPORT

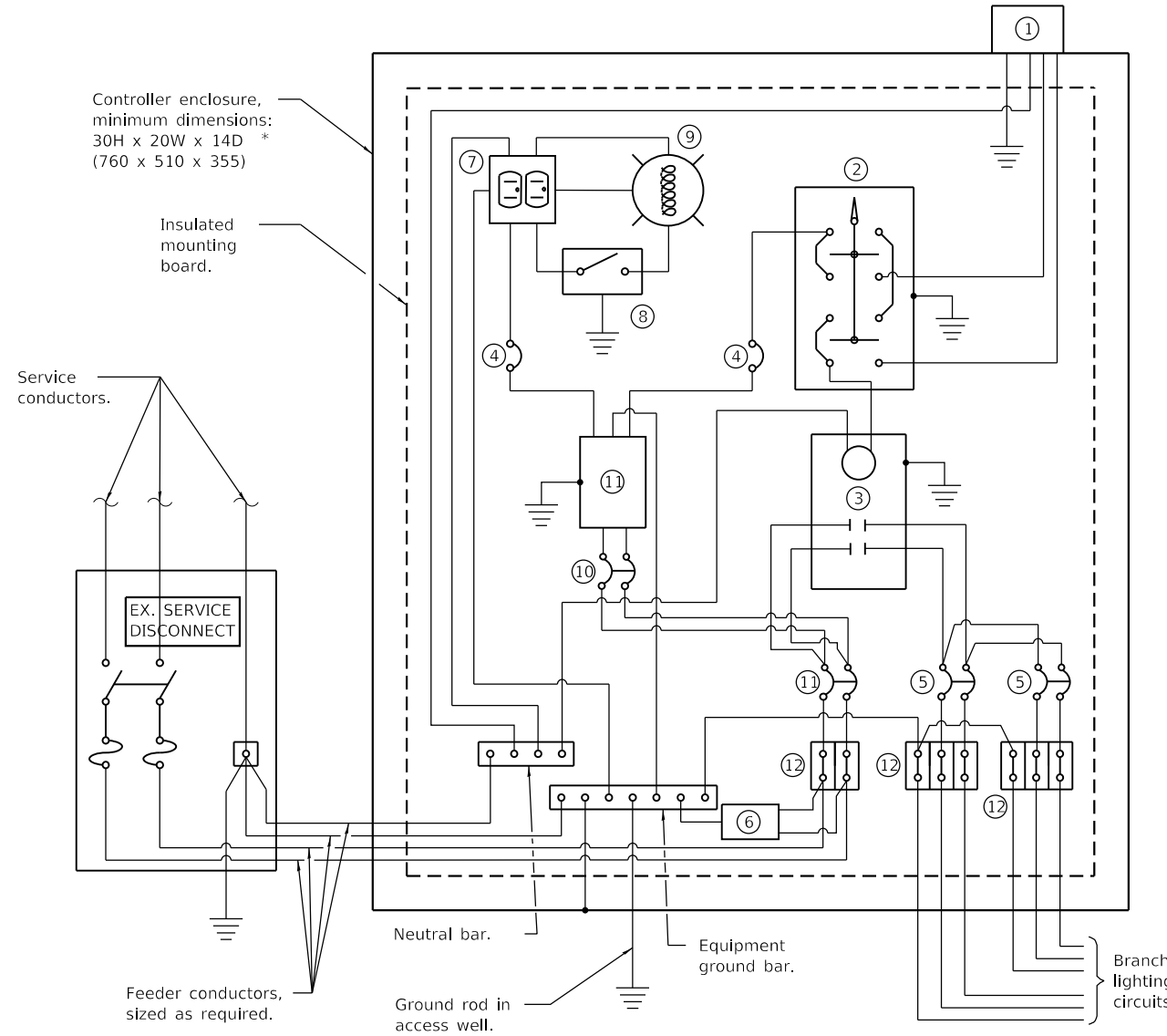
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VAR.	D4 LIGHTING UPGRADE 2020	HENDERSON	18	7
			CONTRACT NO. 68F56	
		ILLINOIS	FED. AID PROJECT	

NOT TO SCALE



**THE PROPOSED LIGHTING CONTROLLER
WILL BE INSTALLED ON THE EXISTING
CONTROLLER FOUNDATION**

**THE EXISTING SERVICE INSTALLATION
WILL REMAIN IS USE WITH THE
PROPOSED LIGHTING CONTROLLER**



CONTROL SCHEMATIC

- ① Photocell with integral surge arrester.
- ② HAND-OFF-AUTO selector switch.
- ③ 60 amp, electrically held contactor.
- ④ 15 amp, 1-pole circuit breaker.
- ⑤ 20 amp*, 2-pole circuit breaker (two spares required but not shown).
- ⑥ Surge arrester.
- ⑦ GFCI duplex receptacle.
- ⑧ Single-pole, single-throw switch.
- ⑨ Light Fixture, enclosed and gasketed with 800 Lumen LED lightbulb.
- ⑩ 15 amp, 2-pole circuit breaker.
- ⑪ 60 amp*, 2-pole circuit breaker.
- ⑫ Terminal block sized for conductors as shown on plans.

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

Branch lighting circuits. (Total of four 20A 2-Pole breakers required: Two for lighting circuits plus two spares.)

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LIGHTING CONTROLLER DETAIL
US 34 & MELLINGER AVE. INTERCHANGE - GULFPORT**

SCALE: SHEET OF SHEETS STA. TO STA.

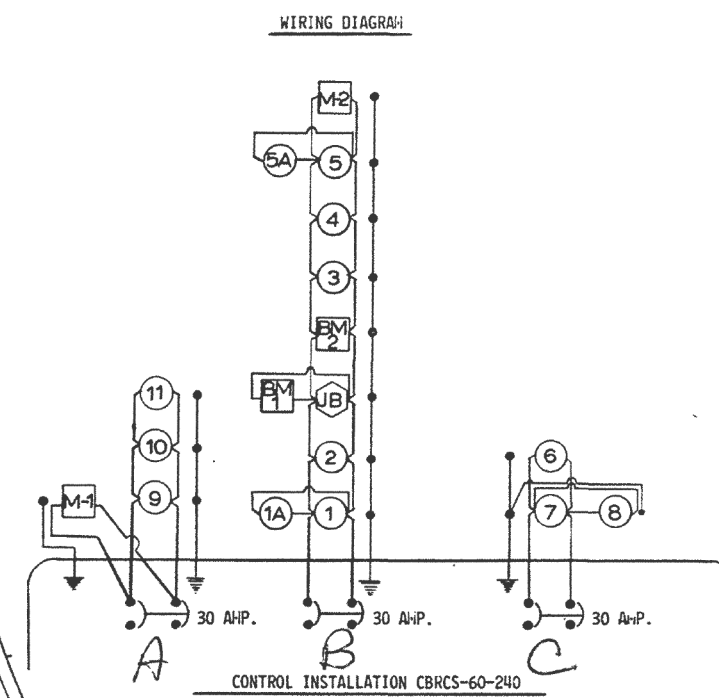
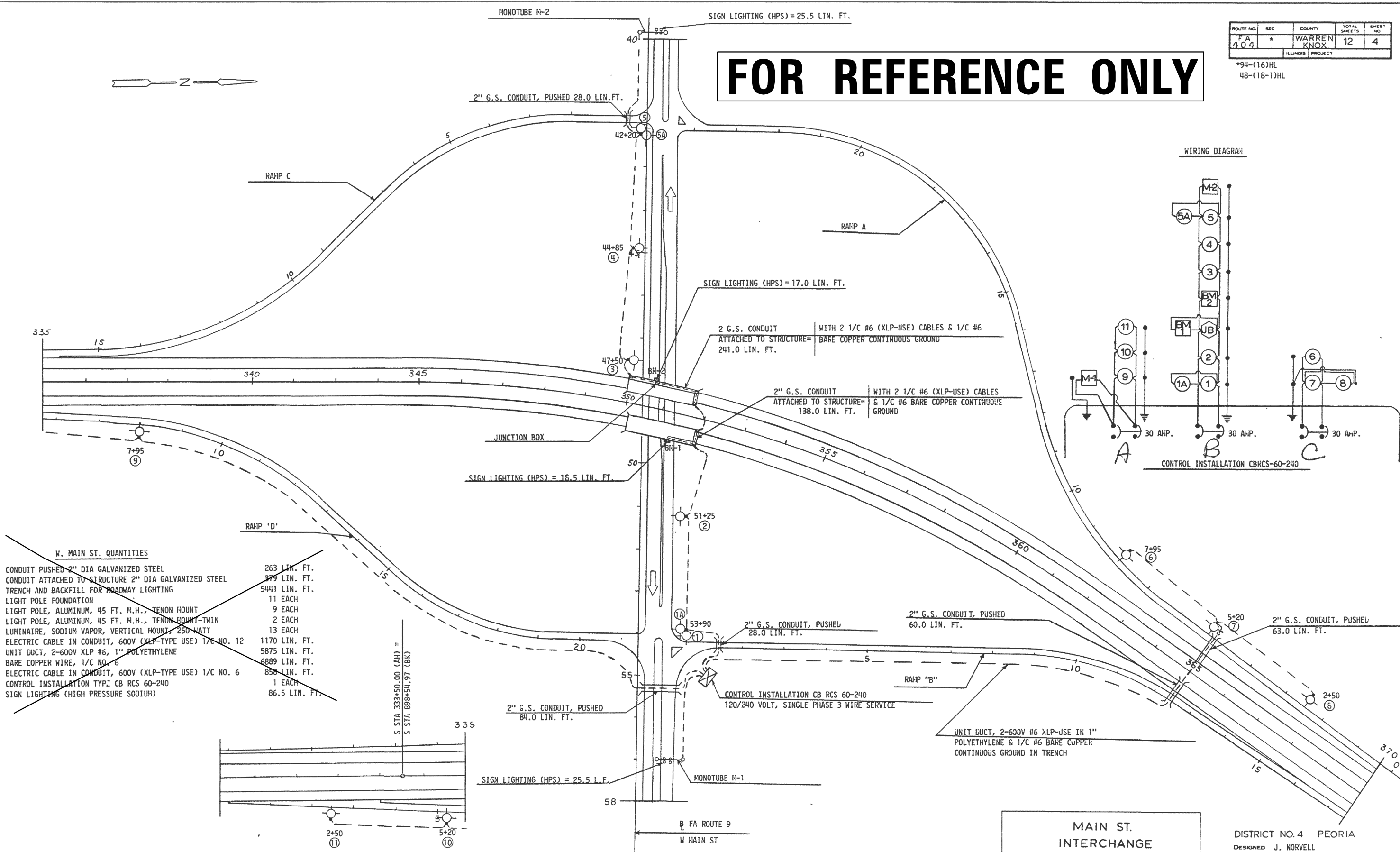
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VAR.	D4 LIGHTING UPGRADE 2020	KNOX	18	8
			CONTRACT NO. 68F56	
		ILLINOIS FED. AID PROJECT		

NOT TO SCALE

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FA 404	*	WARREN KNOX	12	4

*94-(16)HL
48-(18-1)HL

FOR REFERENCE ONLY



W. MAIN ST. QUANTITIES

CONDUIT PUSHED 2" DIA GALVANIZED STEEL	263 LIN. FT.
CONDUIT ATTACHED TO STRUCTURE 2" DIA GALVANIZED STEEL	379 LIN. FT.
TRENCH AND BACKFILL FOR ROADWAY LIGHTING	5441 LIN. FT.
LIGHT POLE FOUNDATION	11 EACH
LIGHT POLE, ALUMINUM, 45 FT. H.H., TENON MOUNT	9 EACH
LIGHT POLE, ALUMINUM, 45 FT. H.H., TENON MOUNT-TWIN	2 EACH
LUMINAIRE, SODIUM VAPOR, VERTICAL MOUNT, 250 WATT	13 EACH
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 12	1170 LIN. FT.
UNIT DUCT, 2-600V XLP #6, 1" POLYETHYLENE	5875 LIN. FT.
BARE COPPER WIRE, 1/C NO. 6	6889 LIN. FT.
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	856 LIN. FT.
CONTROL INSTALLATION TYP. CB RCS 60-240	1 EACH
SIGN LIGHTING (HIGH PRESSURE SODIUM)	86.5 LIN. FT.

MAIN ST. INTERCHANGE

DISTRICT NO. 4 PEORIA
DESIGNED J. NORVELL
DRAWN D. SMITH
CHECKED
DATE 2-12-66
SCALE 1"=100'

NOT TO SCALE

MODEL Default
FILE Name: C:\Common\GEN\Transfer - Bureau\68F56 - Final Plans\68F56 D4 Lighting Upgrade 2020 (02-02-2020).dgn

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EXISTING LIGHTING PLANS
US 34 & IL 164 (MAIN ST.) INTERCHANGE - GALESBURG**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D4 LIGHTING UPGRADE 2020	KNOX	18	9

CONTRACT NO. 68F56
ILLINOIS FED. AID PROJECT

BILL OF MATERIALS
US 34 & IL 164 (MAIN ST.) - GALESBURG

ITEM DESCRIPTION	UNIT	QTY.
LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	13.0
LIGHTING CONTROLLER, PEDESTAL MOUNTED, 240VOLT, 60AMP	EACH	1.0



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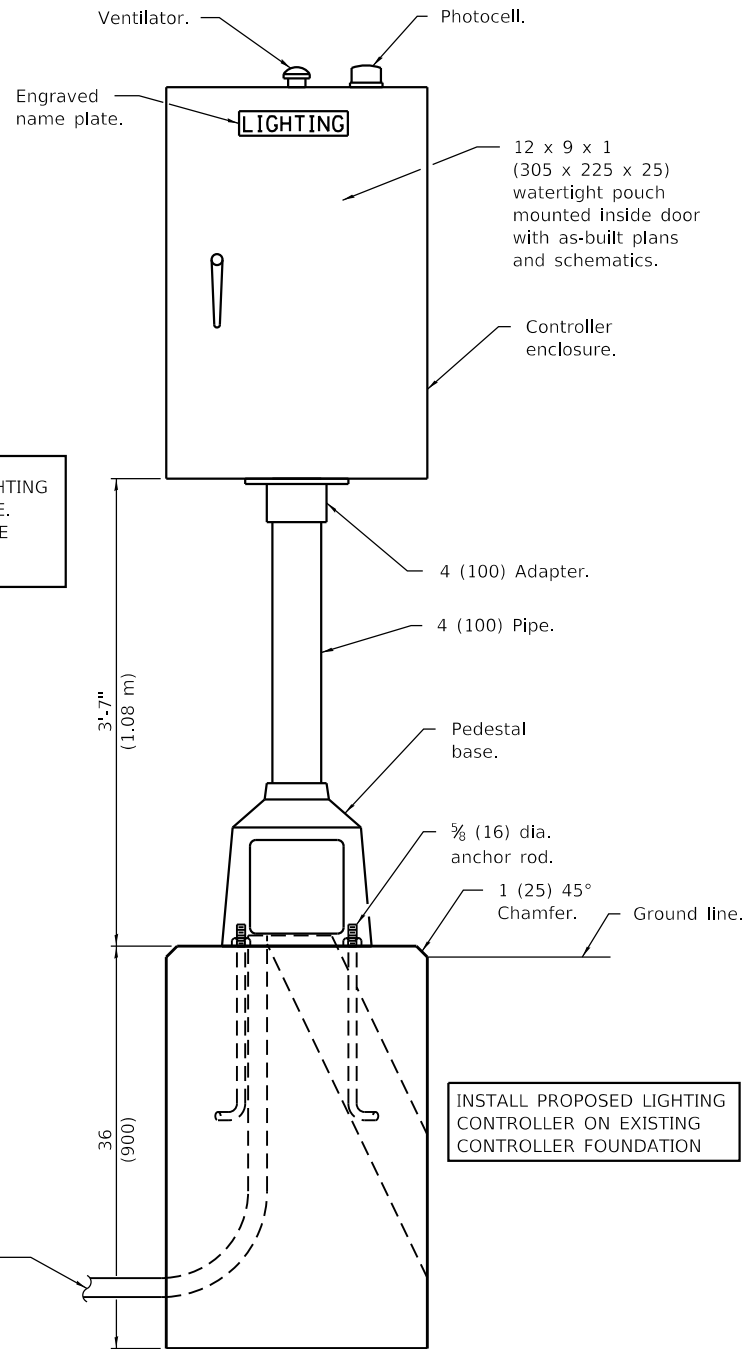
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED LUMINAIRE REPLACEMENT
US 34 & IL 164 (MAIN ST.) INTERCHANGE - GALESBURG

SCALE: SHEET OF SHEETS STA. TO STA.

NOT TO SCALE

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D4 LIGHTING UPGRADE 2020	KNOX	18	10
			CONTRACT NO. 68F56	
		ILLINOIS	FED. AID PROJECT	

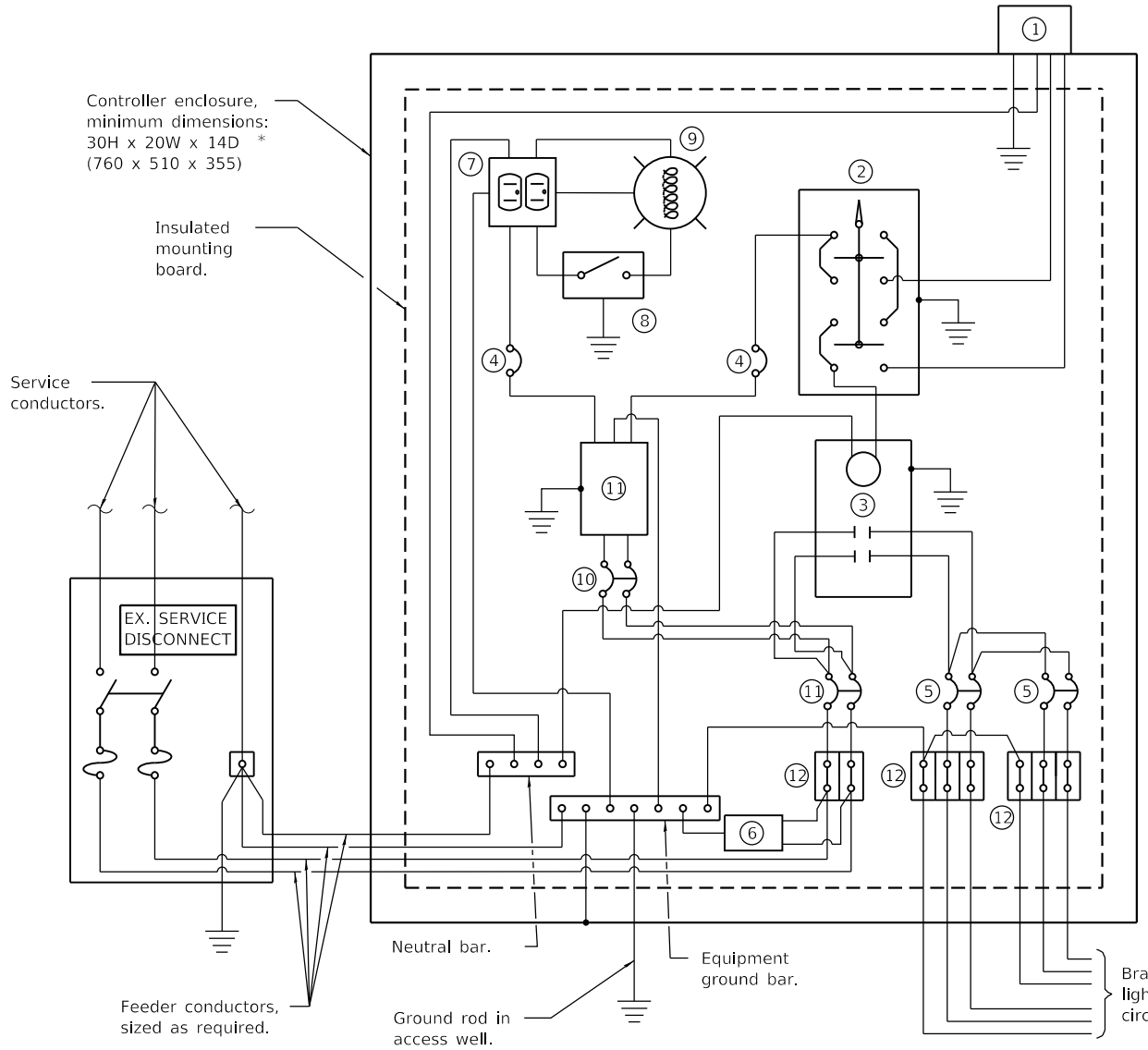


THE CONTRACTOR SHALL REMOVE THE EXISTING LIGHTING CONTROLLER AND DISPOSE OF IT FROM THE JOB SITE. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF THE PROPOSED LIGHTING CONTROLLER

INSTALL PROPOSED LIGHTING CONTROLLER ON EXISTING CONTROLLER FOUNDATION

THE PROPOSED LIGHTING CONTROLLER WILL BE INSTALLED ON THE EXISTING CONTROLLER FOUNDATION

THE EXISTING SERVICE INSTALLATION WILL REMAIN IS USE WITH THE PROPOSED LIGHTING CONTROLLER



CONTROL SCHEMATIC

- ① Photocell with integral surge arrester.
- ② HAND-OFF-AUTO selector switch.
- ③ 60 amp, electrically held contactor.
- ④ 15 amp, 1-pole circuit breaker.
- ⑤ 20 amp*, 2-pole circuit breaker (two spares required but not shown).
- ⑥ Surge arrester.
- ⑦ GFCI duplex receptacle.
- ⑧ Single-pole, single-throw switch.
- ⑨ Light Fixture, enclosed and gasketed with 800 Lumen LED lightbulb.
- ⑩ 15 amp, 2-pole circuit breaker.
- ⑪ 60 amp*, 2-pole circuit breaker.
- ⑫ Terminal block sized for conductors as shown on plans.

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

MODEL: Default
FILE: \\na1c01\c\COMMON\GEN\Transfer - Bureau\68F56 - Final Plans\68F56 D4 Lighting Upgrade_2020_ (Revised_4-2-20).dgn

USER NAME = howalder	DESIGNED -	REVISED -
PLOT SCALE = 42.9315 ' / in.	DRAWN -	REVISED -
PLOT DATE = 4/7/2020	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LIGHTING CONTROLLER DETAIL

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D4 LIGHTING UPGRADE 2020	KNOX	18	11
			CONTRACT NO. 68F56	
		ILLINOIS	FED. AID PROJECT	

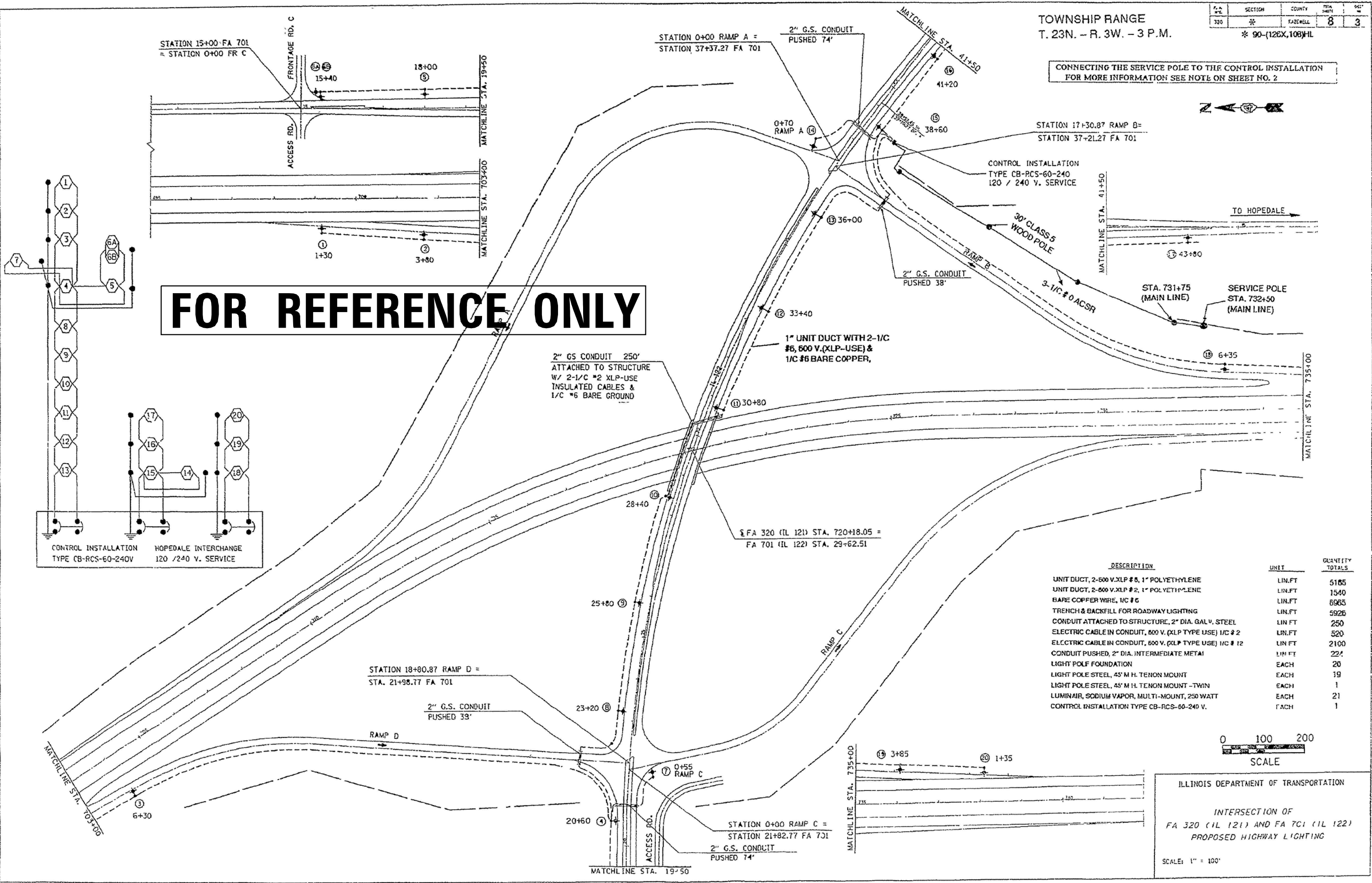
NOT TO SCALE

TOWNSHIP RANGE
T. 23N. - R. 3W. - 3 P.M.

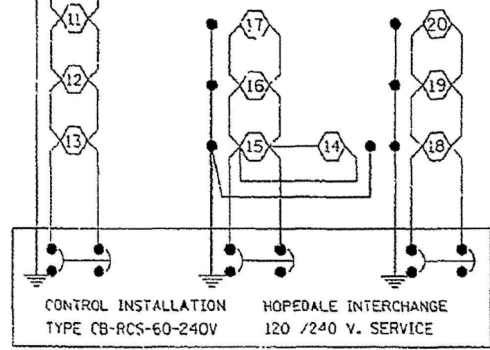
F.A. SHEET	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	*	FAZEWELL	8	3

* 90-(126X,108)HL

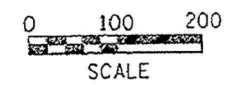
CONNECTING THE SERVICE POLE TO THE CONTROL INSTALLATION
FOR MORE INFORMATION SEE NOTE ON SHEET NO. 2



FOR REFERENCE ONLY



DESCRIPTION	UNIT	QUANTITY TOTALS
UNIT DUCT, 2-600 V.XLP # 5, 1" POLYETHYLENE	LIN.FT	5155
UNIT DUCT, 2-600 V.XLP # 2, 1" POLYETHYLENE	LIN.FT	1540
BARE COPPER WIRE, 1/2 # 6	LIN.FT	5965
TRENCH & BACKFILL FOR ROADWAY LIGHTING	LIN.FT	5926
CONDUIT ATTACHED TO STRUCTURE, 2" DIA. GAL V. STEEL	LIN.FT	250
ELECTRIC CABLE IN CONDUIT, 600 V. (XLP TYPE USE) 1/2 # 2	LIN.FT	520
ELECTRIC CABLE IN CONDUIT, 600 V. (XLP TYPE USE) 1/2 # 12	LIN.FT	2100
CONDUIT PUSHED, 2" DIA. INTERMEDIATE METAL	LIN.FT	224
LIGHT POLE FOUNDATION	EACH	20
LIGHT POLE STEEL, 45' M H. TERNON MOUNT	EACH	19
LIGHT POLE STEEL, 45' M H. TERNON MOUNT - TWIN	EACH	1
LUMINAIR, SODIUM VAPOR, MULTI-MOUNT, 250 WATT	EACH	21
CONTROL INSTALLATION TYPE CB-RCS-60-240 V.	EACH	1



ILLINOIS DEPARTMENT OF TRANSPORTATION

INTERSECTION OF
FA 320 (IL 121) AND FA 701 (IL 122)
PROPOSED HIGHWAY LIGHTING

SCALE: 1" = 100'

MODEL: Default
 FILE: \\nas01\csm\gen\Transfer - Bureau\68F56 - Final Plans\68F56 D4 Lighting Upgrade 2020 (Revised) 4-2-20.dgn
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PLOT SCALE = 42.9315' / in.	DRAWN -	REVISED -
PLOT DATE = 4/7/2020	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING LIGHTING PLANS
I-155 & IL 122 SOUTH (HOPEDALE) - EXIT 15

SCALE: SHEET OF SHEETS STA. TO STA.

NOT TO SCALE

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D4 LIGHTING UPGRADE 2020	KNOX	18	12

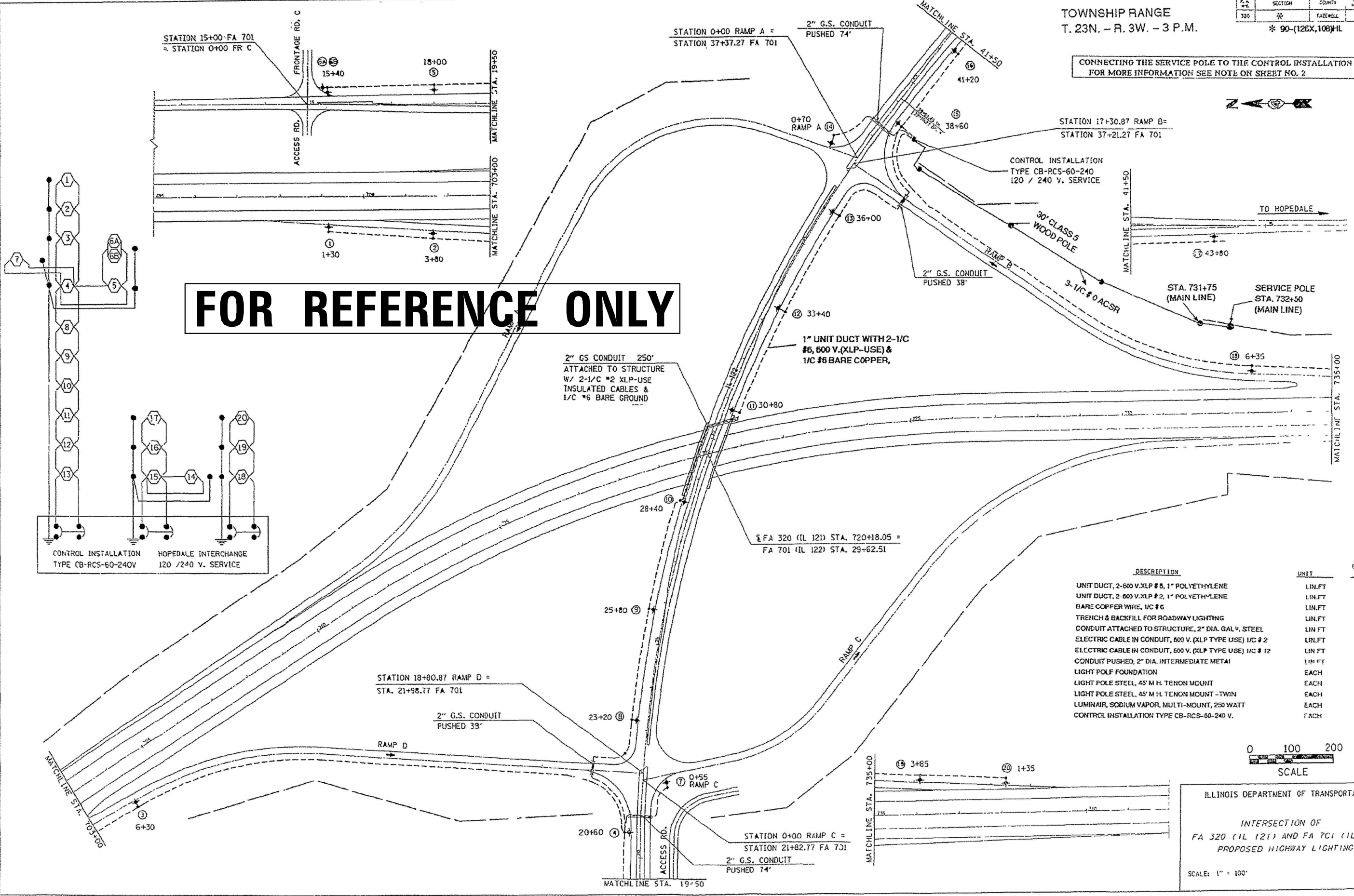
CONTRACT NO. 68F56
ILLINOIS FED. AID PROJECT

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	FAREWELL	8	3

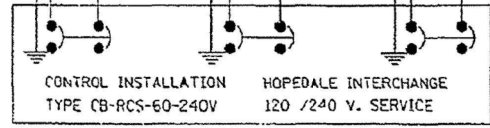
TOWNSHIP RANGE
T. 23N. - R. 3W. - 3 P.M.

* 90-(126X,108)HL

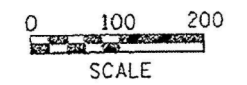
CONNECTING THE SERVICE POLE TO THE CONTROL INSTALLATION
FOR MORE INFORMATION SEE NOTE ON SHEET NO. 2



FOR REFERENCE ONLY



DESCRIPTION	UNIT	QUANTITY TOTALS
UNIT DUCT, 2-600 V.XLP #5, 1" POLYETHYLENE	LIN.FT	5165
UNIT DUCT, 2-600 V.XLP #2, 1" POLYETHYLENE	LIN.FT	1540
BARE COPPER WIRE, 1/2 #6	LIN.FT	6965
TRENCH & BACKFILL FOR ROADWAY LIGHTING	LIN.FT	5926
CONDUIT ATTACHED TO STRUCTURE, 2" DIA. GALV. STEEL	LIN.FT	250
ELECTRIC CABLE IN CONDUIT, 600 V. (XLP TYPE USE) 1/2 #2	LIN.FT	520
ELECTRIC CABLE IN CONDUIT, 600 V. (XLP TYPE USE) 1/2 #12	LIN.FT	2100
CONDUIT PUSHED, 2" DIA. INTERMEDIATE METAL	LIN.FT	224
LIGHT POLE FOUNDATION	EACH	20
LIGHT POLE STEEL, 45' M.H. TENON MOUNT	EACH	19
LIGHT POLE STEEL, 45' M.H. TENON MOUNT -TWIN	EACH	1
LUMINAIR, SODIUM VAPOR, MULTI-MOUNT, 250 WATT	EACH	21
CONTROL INSTALLATION TYPE CB-RCS-60-240 V.	EACH	1



ILLINOIS DEPARTMENT OF TRANSPORTATION
INTERSECTION OF
FA 320 (IL 121) AND FA 701 (IL 122)
PROPOSED HIGHWAY LIGHTING
SCALE: 1" = 100'

MODEL: Default
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PLOT SCALE = 42.9315' / in.	DRAWN -	REVISED -
PLOT DATE = 4/7/2020	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING LIGHTING PLANS
I-155 & IL 122 NORTH (DELEVAN) - EXIT 18

SCALE: SHEET OF SHEETS STA. TO STA.

NOT TO SCALE

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D4 LIGHTING UPGRADE 2020	KNOX	18	13
CONTRACT NO. 68F56				
ILLINOIS		FED. AID PROJECT		

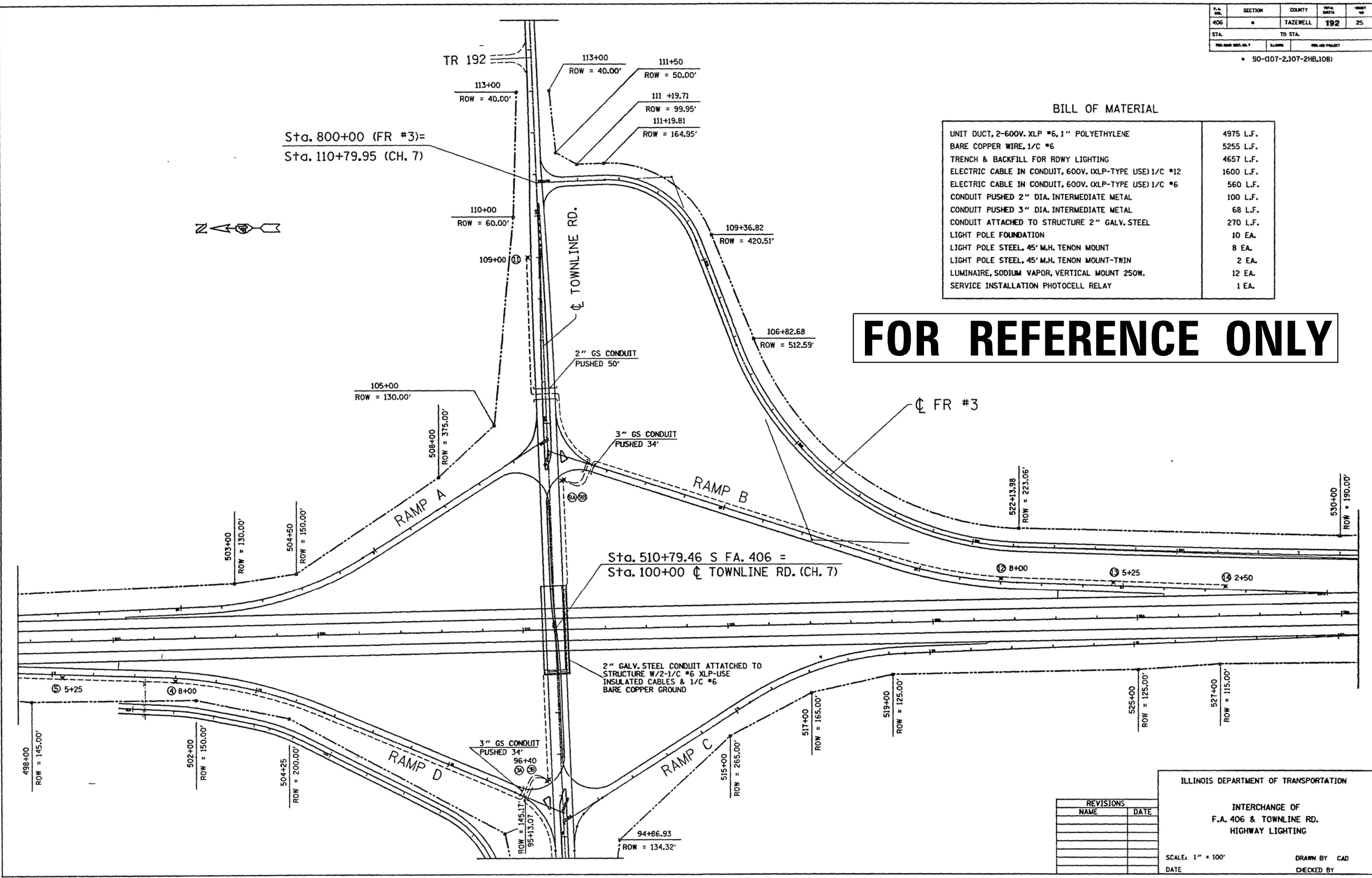
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
406	0	TAZEWELL	192	25
STA.		TO STA.		
FED. AID DIST. NO. 7		ALINE		FED. AID PROJECT

90-007-2.107-2HB,108

BILL OF MATERIAL

UNIT DUCT, 2-600V. XLP #6, 1" POLYETHYLENE	4975 L.F.
BARE COPPER WIRE, 1/C #6	5255 L.F.
TRENCH & BACKFILL FOR ROWY LIGHTING	4657 L.F.
ELECTRIC CABLE IN CONDUIT, 600V. (XLP-TYPE USE) 1/C #12	1600 L.F.
ELECTRIC CABLE IN CONDUIT, 600V. (XLP-TYPE USE) 1/C #6	560 L.F.
CONDUIT PUSHED 2" DIA. INTERMEDIATE METAL	100 L.F.
CONDUIT PUSHED 3" DIA. INTERMEDIATE METAL	68 L.F.
CONDUIT ATTACHED TO STRUCTURE 2" GALV. STEEL	270 L.F.
LIGHT POLE FOUNDATION	10 EA.
LIGHT POLE STEEL, 45' M.H. TENON MOUNT	8 EA.
LIGHT POLE STEEL, 45' M.H. TENON MOUNT-TWIN	2 EA.
LUMINAIRE, SODIUM VAPOR, VERTICAL MOUNT 250W.	12 EA.
SERVICE INSTALLATION PHOTOCCELL RELAY	1 EA.

FOR REFERENCE ONLY



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**INTERCHANGE OF
F.A. 406 & TOWNLINE RD.
HIGHWAY LIGHTING**

SCALE: 1" = 100'

DATE: _____ DRAWN BY: CAD
CHECKED BY: _____

USER NAME = howalder	DESIGNED -	REVISED -
PLOT SCALE = 42.9315' / in.	DRAWN -	REVISED -
PLOT DATE = 4/7/2020	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EXISTING LIGHTING PLANS
I-155 & TOWNLINE RD. - EXIT 22**

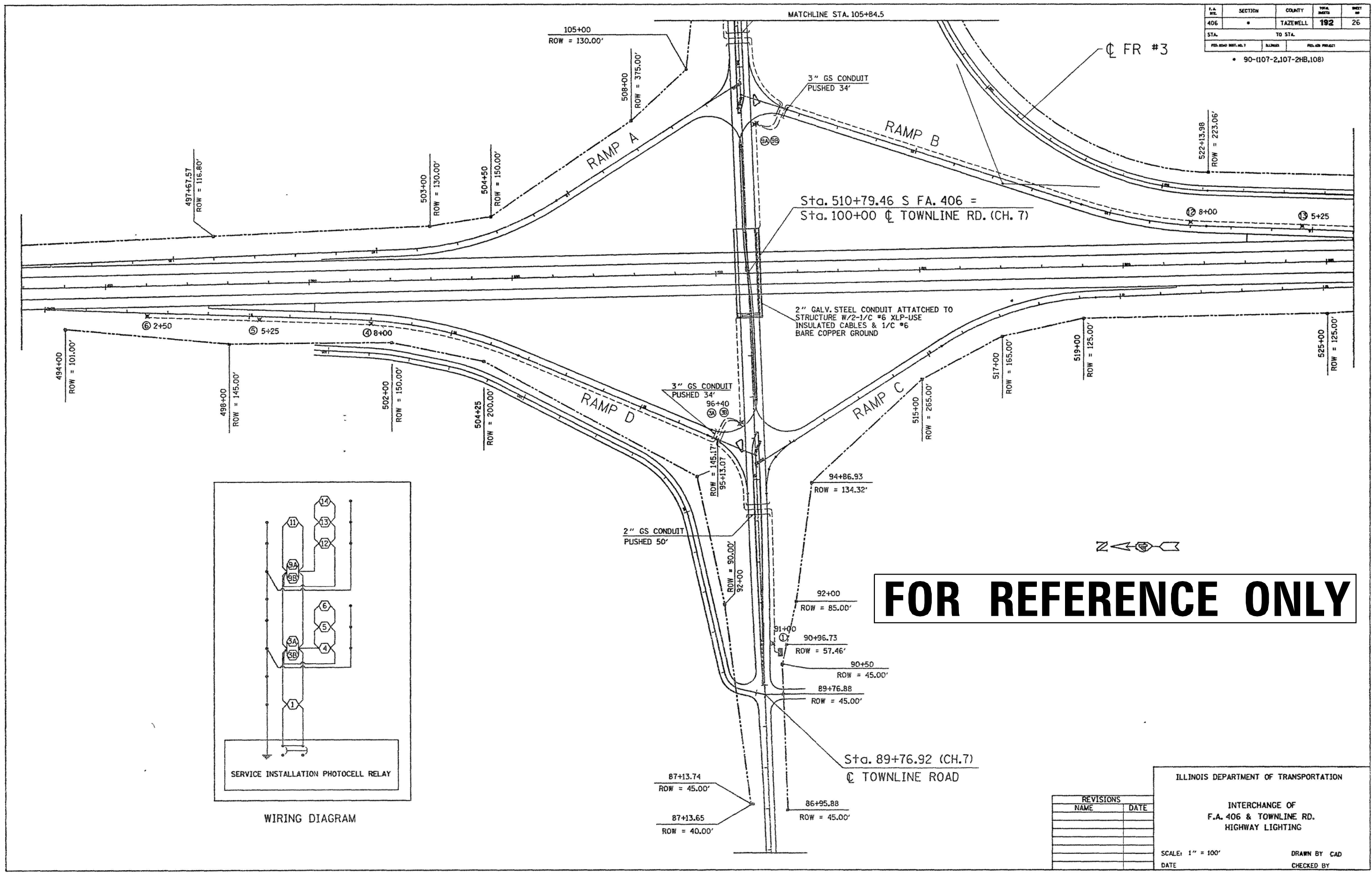
SCALE: _____ SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D4 LIGHTING UPGRADE 2020	KNOX	18	14
CONTRACT NO. 68F56				
ILLINOIS FED. AID PROJECT				

NOT TO SCALE

MODEL: Default
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
406	*	TAZEWELL	192	26
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
• 90-107-2,107-2HB,108)				



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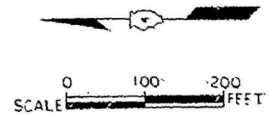
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PLOT SCALE = 42.9315" / in.	DRAWN -	REVISED -
PLOT DATE = 4/7/2020	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING LIGHTING PLANS (CONTINUED)			
I-155 & TOWNLINE RD. - EXIT 22			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

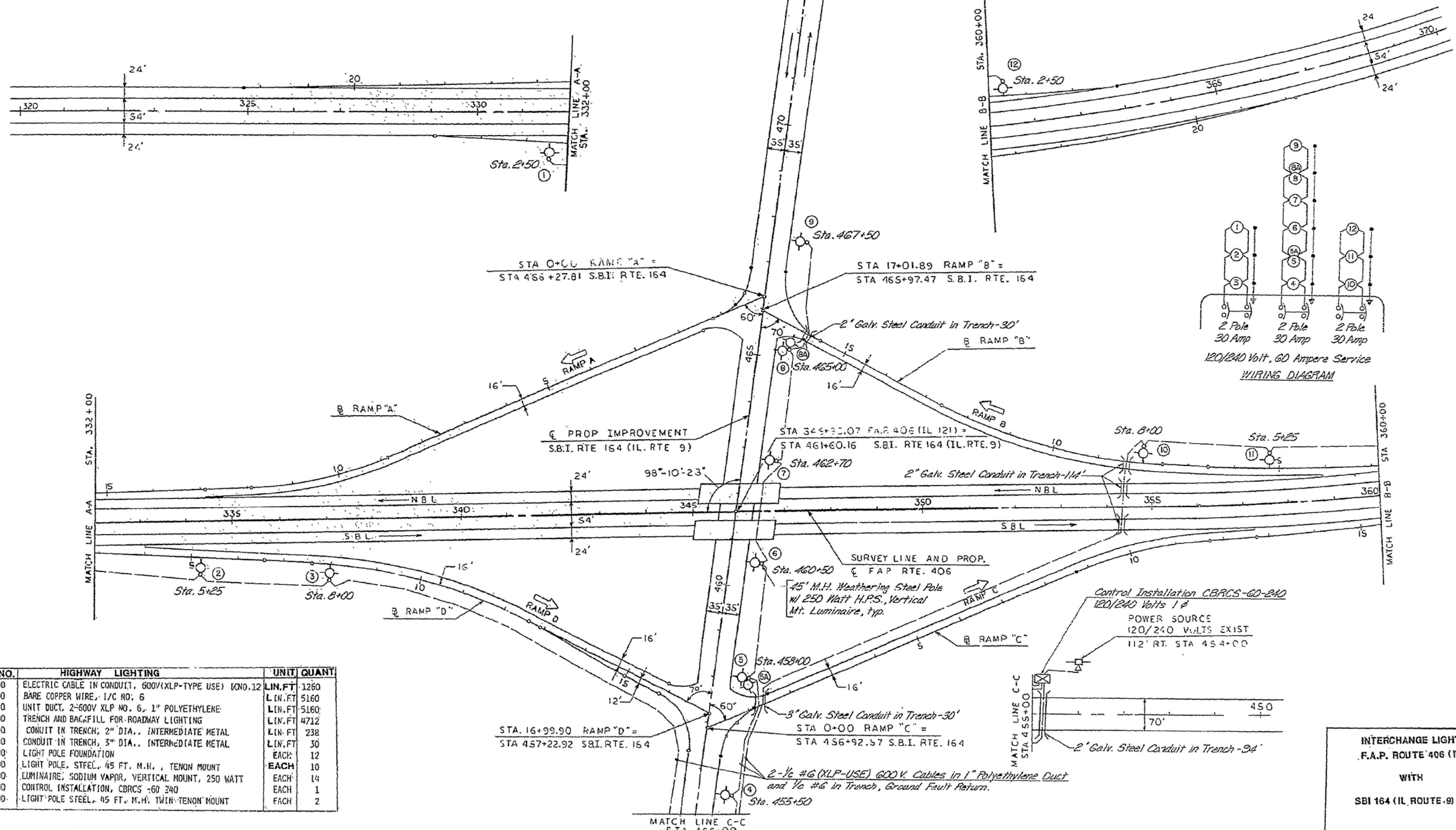
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D4 LIGHTING UPGRADE 2020	KNOX	18	15
CONTRACT NO. 68F56				
ILLINOIS		FED. AID PROJECT		

NOT TO SCALE



FOR REFERENCE ONLY

DATE	ARC	PROJECT	SHEET	TOTAL
FAP06	90-107-1	Tazewell	179	75
ILL 121		LEANS PROJECT		



CODE NO.	HIGHWAY LIGHTING	UNIT	QUANT.
66030100	ELECTRIC CABLE IN CONDUIT, 600V(XLP-TYPE USE) 1/2"X12	LIN. FT.	1260
66060200	BARE COPPER WIRE, 1/C NO. 6	LIN. FT.	5160
66100300	UNIT DUCT, 2-600V XLP NO. 6, 1" POLYETHYLENE	LIN. FT.	5160
66200100	TRENCH AND BACKFILL FOR ROADWAY LIGHTING	LIN. FT.	4712
66306600	CONDUIT IN TRENCH, 2" DIA., INTERMEDIATE METAL	LIN. FT.	238
66306800	CONDUIT IN TRENCH, 3" DIA., INTERMEDIATE METAL	LIN. FT.	30
66500100	LIGHT POLE FOUNDATION	EACH	12
66734400	LIGHT POLE, STEEL, 45 FT. M.H., TENON MOUNT	EACH	10
66905200	LUMINAIRE, SODIUM VAPOR, VERTICAL MOUNT, 250 WATT	EACH	14
66900200	CONTROL INSTALLATION, CBRC -60 240	EACH	1
66735400	LIGHT POLE STEEL, 45 FT. M.H., TWIN-TENON MOUNT	EACH	2

INTERCHANGE LIGHTING
F.A.P. ROUTE 406 (IL 121)
 WITH
SBI 164 (IL ROUTE 9)

Contract 88047

USER NAME = howald	DESIGNED -	REVISED -
PLOT SCALE = 42.9315' / in.	DRAWN -	REVISED -
PLOT DATE = 4/7/2020	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

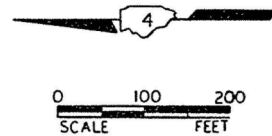
EXISTING LIGHTING PLANS
I-155 & IL 9 (TREMONT) - EXIT 25

SCALE: SHEET OF SHEETS STA. TO STA.

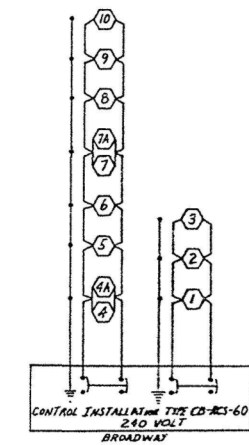
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VAR. D4 LIGHTING UPGRADE 2020		KNOX	18	16
CONTRACT NO. 68F56				
ILLINOIS FED. AID PROJECT				

NOT TO SCALE

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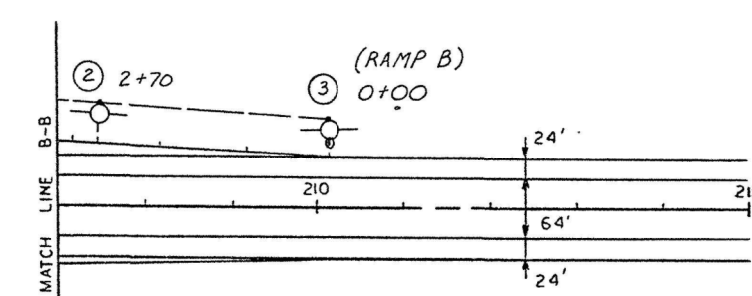
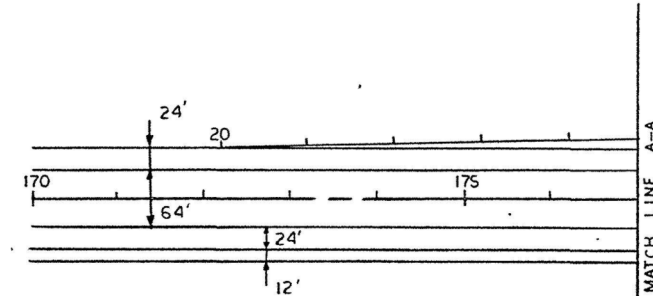


BILL OF MATERIAL		
DESCRIPTION	UNIT	QUANTITY
UNIT DUCT, 2-600 VCLP #6, 1" POLYETHYLENE	LIN FT	4110
BARE COPPER WIRE, 1/C NO. 6	LIN FT	4400
TRENCH AND BACKFILL FOR ROADWAY LIGHTING	LIN FT	3832
CONDUIT ATTACHED TO STRUCTURE, 2" DIA., GALVANIZED STEEL	LIN FT	290
ELECTRIC CABLE IN CONDUIT, 600V(XLP-TYPE USE) 1/C NO.6	LIN FT	600
ELECTRIC CABLE IN CONDUIT, 600V(XLP-TYPE USE) 1/C NO.12	LIN FT	1200
CONDUIT PUSHED, 2" DIA., INTERMEDIATE METAL	LIN FT	68
LIGHT POLE FOUNDATION	EACH	10
LIGHT POLE, STEEL, 45 FT. M.H., TENON MOUNT	EACH	8
LIGHT POLE, STEEL, 45 FT. M.H., TENON MOUNT - TWIN	EACH	2
LUMINAIRE, SODIUM VAPOR, VERTICAL MOUNT, 250 WATT	EACH	12
CONTROL INSTALLATION, TYPE CB RCS 60-240	EACH	1

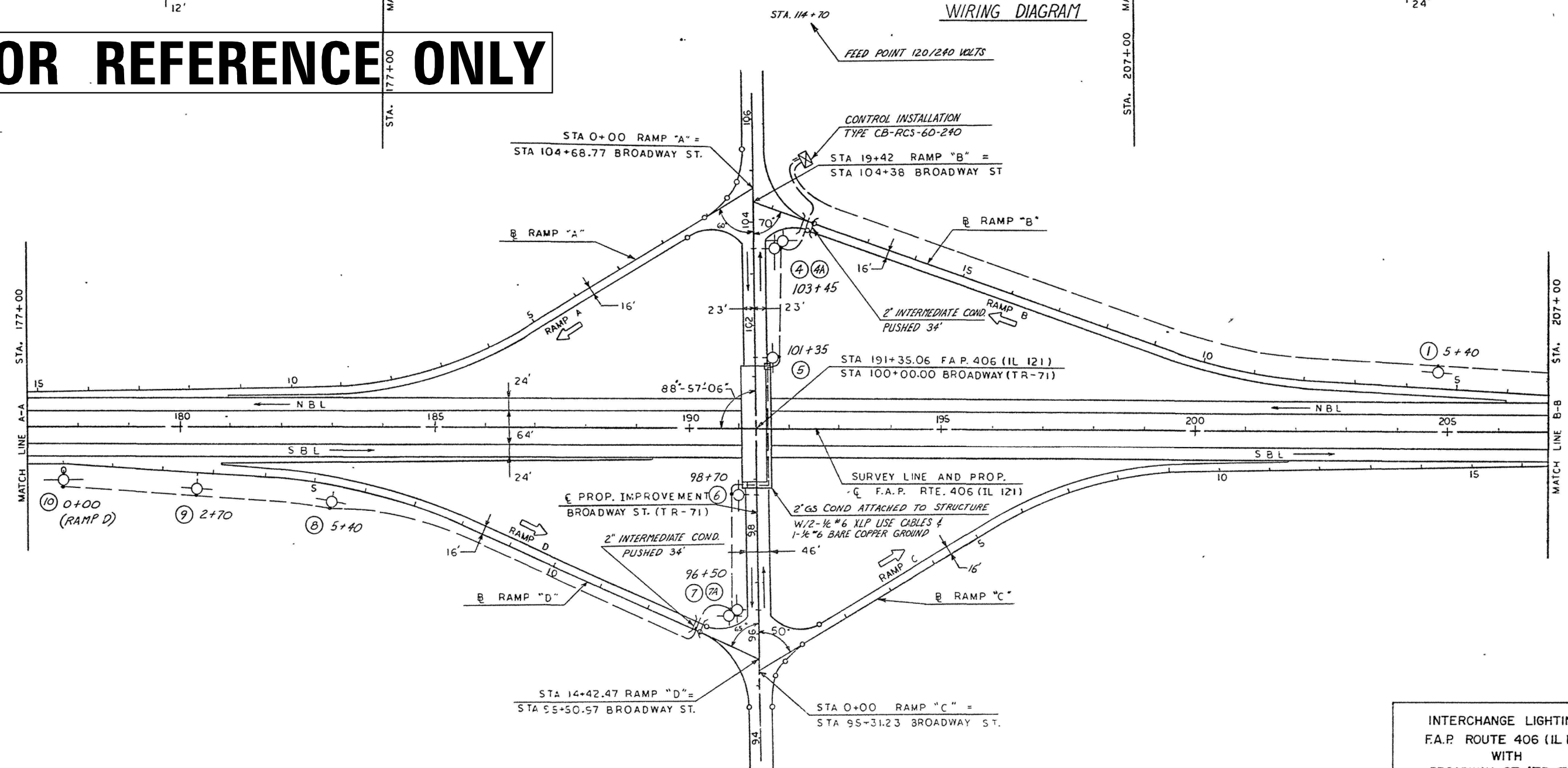


ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 406	*	TAZEWELL	237	130
IL 121		ALLIANCE PROJECT		

* 90-(107) HB



FOR REFERENCE ONLY



INTERCHANGE LIGHTING
F.A.P. ROUTE 406 (IL 121)
WITH
BROADWAY ST. (TR-71)
(SCALE 1"= 100')

NOT TO SCALE

MODEL: Default
FILE: \\nas01\c\COMMON\GEN\TRANSFER - Bureau\68F56 - Final Plans\68F56 D4 Lighting Upgrade 2020 (Revised 4-2-20).dgn

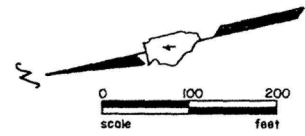
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PLOT DATE = 4/7/2020	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING LIGHTING PLANS
I-155 & BROADWAY RD. - EXIT 28

SCALE: SHEET OF SHEETS STA. TO STA.

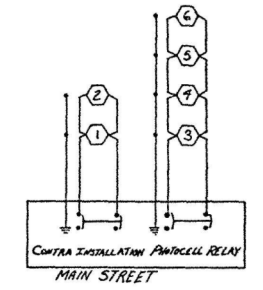
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VAR.	D4 LIGHTING UPGRADE 2020	KNOX	18	17
			CONTRACT NO. 68F56	
		ILLINOIS FED. AID PROJECT		



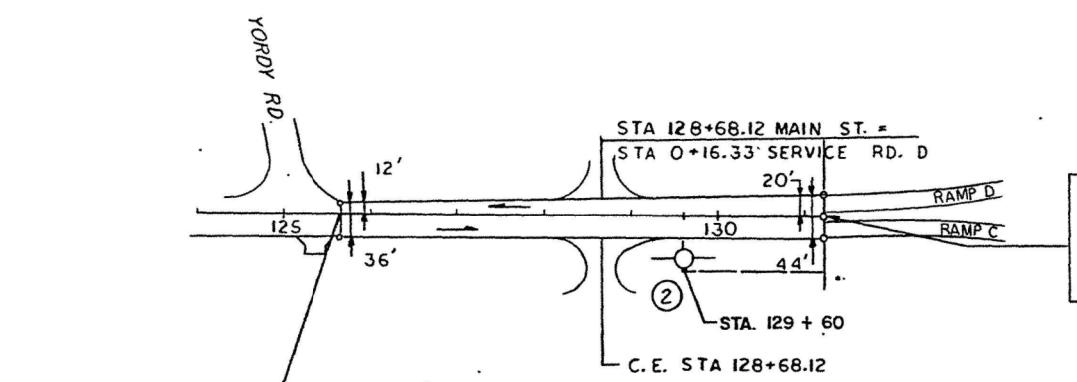
BILL OF MATERIAL		
DESCRIPTION	UNIT	QUANTITY
UNIT DUCT, 2-600 VKLP #6, 1" POLYETHYLENE	LIN FT	2560
BARE COPPER WIRE, 1/C NO. 6	LIN FT	2560
TRENCH AND BACKFILL FOR ROADWAY LIGHTING	LIN FT	2432
ELECTRIC CABLE IN CONDUIT, 600V(XLP-TYPE USE) 1/C NO.12	LIN FT	600
CONDUIT PUSHED, 2" DIA. INTERMEDIATE METAL	LIN FT	68
LIGHT POLE FOUNDATION	EACH	6
LIGHT POLE, STEEL, 45 FT. M.H., TENON MOUNT	EACH	6
LUMINAIRE, SODIUM VAPOR, VERTICAL MOUNT, 250 WATT	EACH	6
SERVICE INSTALLATION PHOTOCELL RELAY	EACH	1

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FAP406	*	TAZEWELL	237	129

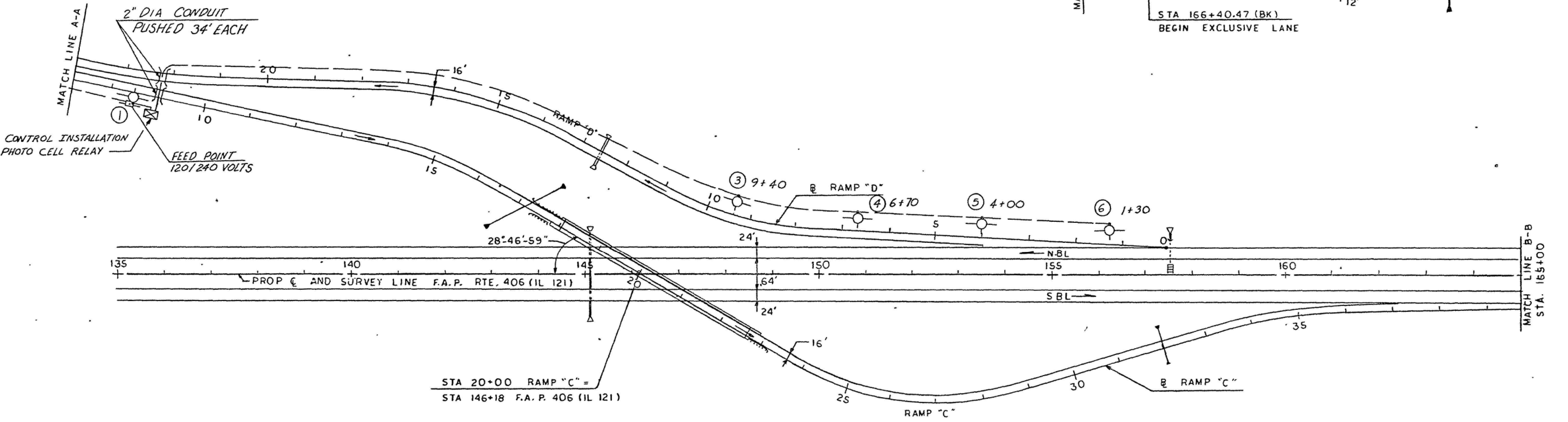
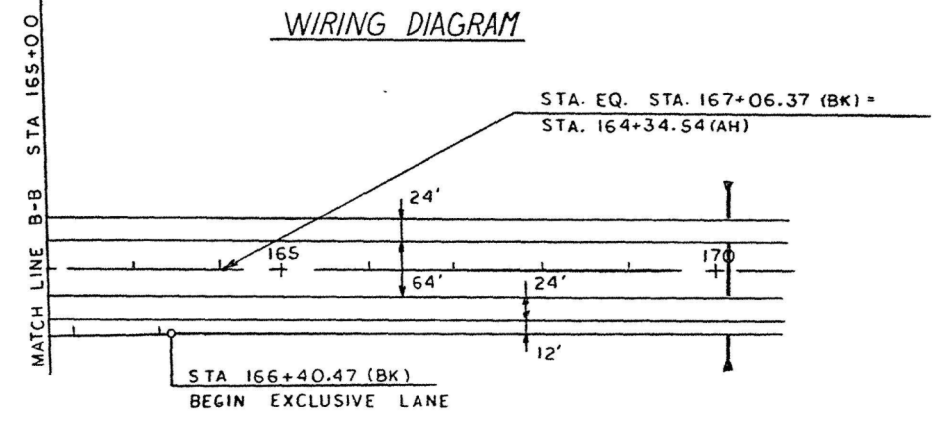
* 90 -(106 X) HB-2



WIRING DIAGRAM



END IMPROVEMENT
 MAIN STREET AT MATCHLINE A-A
 STA 131+25.12 (MAIN ST.)=
 STA. 7+40.31, 24' LT. (RAMP C)=
 STA. 23+73.90, 20' LT. (RAMP D)



FOR REFERENCE ONLY

INTERCHANGE LIGHTING
 F.A.P. ROUTE 406 (IL 121)
 WITH
 MAIN STREET
 (SCALE 1" = 100')

MODEL: Default
 FILE: \\mhc-cv.common\GEN\Transfer - Bureau\68F56 - Final Plans\68F56 D4 Lighting Upgrade 2020 (Revised 4-2-20).dgn

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	DRAWN -	REVISED -
PLOT SCALE = 42.9315 ' / in.	CHECKED -	REVISED -
PLOT DATE = 4/7/2020	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING LIGHTING PLANS
 I-155 & MAIN ST. - MORTON

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D4 LIGHTING UPGRADE 2020	KNOX	18	18

CONTRACT NO. 68F56
 ILLINOIS FED. AID PROJECT

NOT TO SCALE