09-19-2025 LETTING ITEM 040

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	72(7-9)L	PEORIA	34	1
	ILLINOIS	CONTRACT NO. 68K24		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

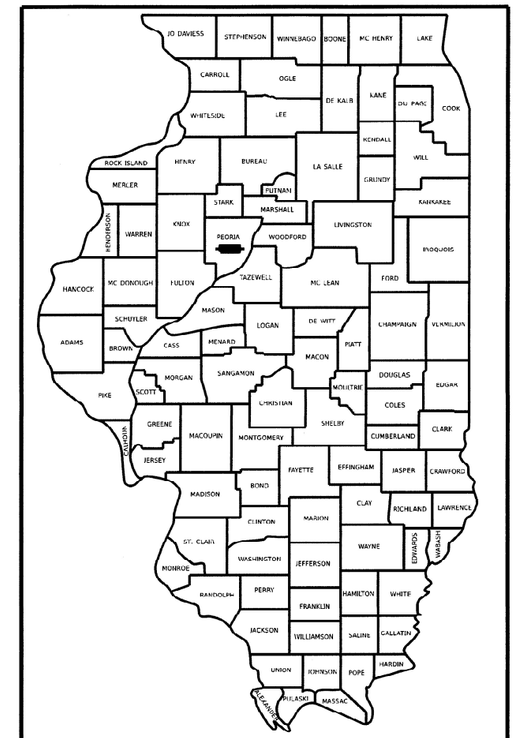
D-94-059-25

INDEX OF SHEETS:
SEE SHEET 2 FOR INDEX OF SHEETS

PROPOSED HIGHWAY PLANS

FAI ROUTE 74 (I-74)
SECTION 72(7-9)L
PROJECT NO. CAR-D24G(394)
PEORIA COUNTY

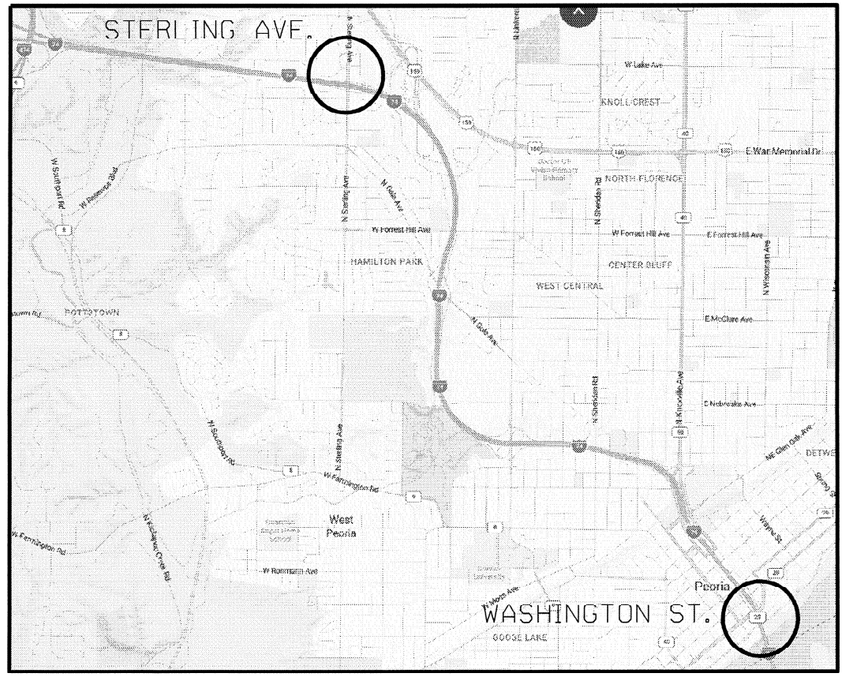
C-94-073-25



LOCATION OF SECTION INDICATED THUS:

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

PROJECT DESCRIPTION:
UPGRADE HPS TO LED LUMINAIRES IN PEORIA ALONG I-74 ON EXISTING LIGHT TOWERS, LIGHT POLES, HIGH MAST TOWERS, AND INSIDE TUNNELS FROM STERLING AVE. TO ILLINOIS RIVER



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED June 27 20 25
REGIONAL ENGINEER

August 15 20 25
ENGINEER OF DESIGN AND ENVIRONMENT

August 15 20 25
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

PROJECT ENGINEER : ERIC HOWALD (309) 671-4481
PROJECT MANAGER : BEN TELLEFSON (309) 671-4477
CATALOG NO. 036662-00D
CONTRACT NO. 68K24

INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
1	COVER SHEET
2	COMMITMENTS, INDEX OF SHEETS, HIGHWAY STANDARDS, AND CONSTRUCTION NOTES
3	LIGHTING CONTROLLER LOCATIONS AND LEGEND
4	SUMMARY OF QUANTITIES
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9 - 10	LIGHT TOWER LUMINAIRE REPLACEMENT I-74 AT STERLING AVE.
11 - 14	LIGHT TOWER LUMINAIRE REPLACEMENT I-74 AT US 150 (WAR MEMORIAL DR.)
15	LIGHT TOWER LUMINAIRE REPLACEMENT I-74 AT FORREST HILL AVE.
16 - 18	LIGHT TOWER LUMINAIRE REPLACEMENT I-74 AT GALE AVE.
19	LIGHT TOWER LUMINAIRE REPLACEMENT I-74 AT NEBRASKA AVE.
20 - 21	LIGHT TOWER LUMINAIRE REPLACEMENT I-74 AT UNIVERSITY ST.
22	LIGHT TOWER LUMINAIRE REPLACEMENT I-74 AT BROADWAY ST., SHERIDAN RD., ELLIS ST.
23	LIGHT TOWER LUMINAIRE REPLACEMENT I-74 AT NORTH ST.
24	LIGHT TOWER LUMINAIRE REPLACEMENT I-74 AT IL 40 (KNOXVILLE AVE.)
25	LIGHT TOWER LUMINAIRE REPLACEMENT I-74 AT GLEN OAK AVE., PERRY AVE.
26	LIGHT TOWER LUMINAIRE REPLACEMENT I-74 AT MONROE ST., MADISON AVE., JEFFERSON ST.
27	LIGHT TOWER LUMINAIRE REPLACEMENT I-74 AT ADAMS ST., WASHINGTON ST.
28	I-74 WB RAMP G4 TUNNEL LUMINAIRE REPLACEMENT
29-32	I-74 WB RAMP G4 TUNNEL EXISTING PLANS (FOR INFORMATION ONLY)
33-34	LUMINAIRE PERFORMANCE TABLE

HIGHWAY STANDARDS	
000001-08	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
701400-12	APPROACH TO LANE CLOSURE, FREEWAY/ EXPRESSWAY
701406-13	LANE CLOSURE, FREEWAY/ EXPRESSWAY, DAY OPERATIONS ONLY
701428-01	TRAFFIC CONTROL SETUP AND REMOVAL FREEWAY/ EXPRESSWAY
701456-05	PARTIAL EXIT RAMP CLOSURE, FREEWAY/ EXPRESSWAY
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701901-10	TRAFFIC CONTROL DEVICES
821101-03	LUMINARE WIRING IN POLE
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS >/= 45 MPH
720001-01	SIGN PANEL MOUNTING DETAILS

THERE HAVE BEEN NO COMMITMENTS MADE IN CONJUCTION WITH THIS PROJECT.

	CONSTRUCTION NOTES
1.	ANY MAINTENANCE OF EXISTING LIGHTING WILL BE CONSIDERED EXTRA WORK IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.
2.	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.
3.	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.
4.	ELECTRICAL WORK SHALL CONFORM WITH NATIONAL, STATE, AND LOCAL CODES.
5.	ALL SURPLUS MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS.
6.	REMOVAL OF EXISTING ITEMS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE UNIT BID PRICES FOR THE PROPOSED ITEMS.
7.	ALL HPS LAMPS SHALL BE DISPOSED OF AT A CERTIFIED DISPOSAL FACILITY. ALL COSTS, INCLUDING DISPOSAL AND SHIPPING CHARGES, SHALL BE INCLUDED IN THE COST OF THE PROPOSED PAY ITEMS FOR LUMINAIRE LAMP REPLACEMENT. THE CONTRACTOR SHALL SUBMIT SUPPORTING DOCUMENTATION FOR ALL DISPOSAL ACTIVITIES.
8.	THE CONTRACTOR MAY ELECT TO WORK DURING NON-PEAK HOURS AND WEEKENDS, HOWEVER, ALL COSTS ASSOCIATED WITH WORKING DURING THESE TIME PERIODS SHALL BE INCLUDED IN THE BID PRICES FOR THE PAY ITEMS. THERE WILL BE NO ADDITIONAL COMPENSATION FOR SHIFT DIFFERENTIALS AND PREMIUM TIME HOURS.
9.	PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL ACQUIRE ALL PERTINENT MANUFACTURER'S OPERATION AND MAINTENANCE MANUALS FOR THE TOWER LOWERING DEVICES AND LUMINAIRES. THE CONTRACTOR SHALL BE FAMILIAR AND KNOWLEDGEABLE IN THE MAINTENANCE AND OPERATION OF THE LIGHTING EQUIPMENT.
10.	THE CONTRACTOR SHALL HAVE ALL REQUIRED EQUIPMENT AND SUFFICIENT SUPPLIES OF ALL REQUIRED MATERIALS AVAILABLE AT THE IMMEDIATE WORK SITE TO MINIMIZE WORK OPERATIONS AND TRAFFIC DISRUPTIONS, INCREASE OPERATIONAL EFFICIENCY, AND PREVENT UNNECCESSARY LOWERING OF THE LUMINAIRE RING.
11.	THE LANE CLOSURES FOR WORK ON THE 7 HIGH MAST TOWERS IN THE CENTER MEDIAN ON THE PEORIA SIDE OF THE MURRAY BAKER BRIDGE SHALL BE RESTRICTED TO OFF-PEAK HOURS (8:30AM TO 3:30PM) ON SUNDAY ONLY, SEE TABLE FOR DETAILS.
12.	THE LANE CLOSURES FOR WORK ON THE 7 HIGH MAST TOWERS IN THE CENTER MEDIAN ON THE TAZEWELL SIDE OF THE MURRAY BAKER BRIDGE SHALL BE RESTRICTED TO OFF-PEAK HOURS (8:30AM TO 3:30PM) ON SUNDAY ONLY, SEE TABLE FOR DETAILS.
13.	EXISTING LUMINAIRE WIRING, FUSES, AND FUSE HOLDERS WILL BE REUSED WITH THE PROPOSED HIGH MAST, TUNNEL, UNDERPASS, AND ROADWAY LUMINAIRES. IF THE EXISTING ITEMS ARE DAMAGED, INCOMPATIBLE, OR NOT RE-USABLE, THE CONTRACTOR SHALL FURNISH AND INSTALL NEW ITEMS AS REQUIRED FOR LUMINAIRE INSTALLATION AND AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS REQUIRED FOR LUMINAIRE INSTALLATION. ALL MATERIAL SHALL CONFORM TO THE STANDARD SPECIFICATIONS. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF THE PROPOSED LUMINAIRES.
14.	EXISTING LUMINAIRE MOUNTING BRACKETS AND HARDWARE WILL BE REUSED WITH THE PROPOSED HIGH MAST, TUNNEL, UNDERPASS, AND ROADWAY LUMINAIRES. IF THE EXISTING ITEMS ARE DAMAGED, INCOMPATIBLE, OR NOT RE-USABLE, THE CONTRACTOR SHALL FURNISH AND INSTALL NEW ITEMS AS REQUIRED FOR LUMINAIRE INSTALLATION AND AS DIRECTED BY THE ENGINEER. . THE CONTRACTOR SHALL FURNISH AND INSTALL BRACKETS, HARDWARE, AND ALL OTHER ITEMS REQUIRED FOR LUMINAIRE INSTALLATION. ALL BRACKETS AND HARDWARE SHALL BE GALVANIZED STEEL OR STAINLESS STEEL. ALL MATERIAL SHALL CONFORM TO THE STANDARD SPECIFICATIONS. THE COST OF THIS WORK
15.	THE CONTRACTOR SHALL VERIFY EXISTING LUMINAIRE VOLTAGES PRIOR TO ORDERING MATERIAL.

LIGHTING CONTROLLER LOCATIONS			
ROADWAY	COUNTY	LOCATION	CONTROLLER ID
I-74 WB	PEORIA	STERLING AVE. EXIT	S
I-74 WB	PEORIA	US 150 (WAR MEMORIAL DR.) EXIT	W
US 150 WB	PEORIA	BETWEEN BRANDYWINE AND SCENIC	J
I-74 EB	PEORIA	GALE AVE.	F
I-74 WB	PEORIA	GALE AVE.	G
I-74 EB	PEORIA	UNIVERSITY ST.	F
I-74 WB	PEORIA	UNIVERSITY ST.	N
I-74 WB	PEORIA	PENNSYLVANIA	E
I-74 WB	PEORIA	GREENLEAF	B
I-74 WB	PEORIA	IL 29 (ADAMS)	A

LEGEND

- EX. HIGH MAST LIGHT TOWER
- EX. LIGHT POLE
- EX. LIGHTING CONTROLLER

LIGHT TOWER DESIGNATION

6 EFG / L-04

6 - DENOTES NUMBER OF LUMINAIRES ON TOWER

E - DENOTES LIGHTING CONTROLLER

FG - DENOTES LIGHTING CIRCUIT

L-04 - DENOTES LIGHT ON CIRCUIT DIAGRAM

MODEL: $MODELNAME$
FILE NAME: $FILEL$

USER NAME = $USER$	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = $SCALE$	CHECKED -	REVISED -
PLOT DATE = $DATE$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING CONTROLLER LOCATIONS AND LEGEND

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	72(7-9)L	PEORIA	34	3
		CONTRACT NO. 68K24		
	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

PEORIA COUNTY
CODE 0021

90/10 FED/STATE
URBAN LIGHTING

CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QTY.	QTY.
67100100	MOBILIZATION	L SUM	1.0	1.0
82110007	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION G	EACH	34.0	34.0
82110015	LUMINAIRE, LED, HIGHMAST, OUTPUT DESIGNATION H	EACH	681.0	681.0
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1.0	1.0
X8211000	UNDERPASS LUMINAIRE (SPECIAL)	EACH	200.0	200.0
X8210051	LUMINAIRE, LED, TUNNEL, LOCATION 1	EACH	157.0	157.0
X8210052	LUMINAIRE, LED, TUNNEL, LOCATION 2	EACH	11.0	11.0

HIGH MAST TOWER LOCATIONS (PEORIA COUNTY)

HIGH MAST TOWER								LUMINAIRE					
LOCATION					IDENTIFICATION			QUANTITY	DISTRIB. TYPE	SHIELD SIZE		WATTAGE/ VOLTAGE	INSTALL CONTRACT
ROADWAY	COUNTY	STATION	OFFSET	HEIGHT (M)	CONT.	CIRCUIT	NUMBER			HOUSE SIDE	STREET SIDE		
I-74 EB	PEORIA	149+292.9	MEDIAN	24	G	AB	3	6	M-C-II	300	300	400W/240V	68198
I-74 EB	PEORIA	149+398.5	MEDIAN	24	G	AB	2	6	M-C-V	200	200	400W/240V	68198
I-74 EB	PEORIA	149+504.6	MEDIAN	24	G	AB	1	6	M-C-V	200	200	400W/240V	68198
I-74 EB	PEORIA	149+612.0	MEDIAN	24	G	CD	1	6	M-C-V	200	200	400W/240V	68198
I-74 EB	PEORIA	149+732.0	MEDIAN	24	G	CD	2	8	M-C-II	400	400	400W/240V	68198
I-74 EB	PEORIA	149+866.0	MEDIAN	24	G	CD	3	8	M-C-II	400	400	400W/240V	68198
I-74 EB	PEORIA	142+388.1	MEDIAN	24	S	AB	4	4	M-C-III	300	300	400W/240V	68200
I-74 EB	PEORIA	142+487.2	MEDIAN	24	S	AB	3	6	M-C-III	200	200	400W/240V	68200
I-74 EB	PEORIA	142+902.6	29.4 L	30	S	HI	1	5	M-C-III	200	200	400W/240V	68200
I-74 EB	PEORIA	143+067.5	27.0 L	30	S	HI	2	5	M-C-V	200	200	400W/240V	68200
I-74 EB	PEORIA	143+206.0	32.5 L	30	S	HI	3	5	M-C-V	200	200	400W/240V	68200
I-74 EB	PEORIA	143+290.0	32.0 L	30	S	HI	4	6	M-C-III	200	200	400W/240V	68200
I-74 EB	PEORIA	143+415.0	28.0 L	30	S	HI	5	6	M-C-II	300	300	400W/240V	68200
I-74 EB	PEORIA	143+581.5	50.0 L	30	W	CD	2	8	M-C-V	200	200	400W/240V	68200
I-74 EB	PEORIA	143+704.0	55.0 L	30	W	CD	1	4	M-C-II	300	300	400W/240V	68200
I-74 EB	PEORIA	145+554.2	66.6 L	30	G	CD	1	5	M-C-II	400	N.A.	400W/240V	68200
I-74 EB	PEORIA	145+715.2	57.6 L	30	G	CD	2	5	M-C-II	400	N.A.	400W/240V	68200
WAR DR.	PEORIA	39+716.0	35.0 L	24	J	CD	4	8	M-C-II	400	N.A.	400W/240V	68200
WAR DR.	PEORIA	39+807.0	31.0 R	24	J	CD	5	4	M-C-V	200	200	400W/240V	68200
WAR DR.	PEORIA	39+898.0	26.0 L	24	J	AB	1	6	M-C-II	200	200	400W/240V	68200
WAR DR.	PEORIA	40+000.0	27.0 R	24	J	AB	2	4	M-C-III	200	200	400W/240V	68200
WAR DR.	PEORIA	40+123.0	23.0 L	24	J	EF	1	4	M-C-III	200	200	400W/240V	68200
WM	PEORIA	40+145.0	53.0 R	24	J	AB	3	4	M-C-III	200	200	400W/240V	68200
WM	PEORIA	40+208.0	24.0 R	24	J	GH	1	6	M-C-III	200	200	400W/240V	68200
I-74 EB	PEORIA	143+420.7	237.7 L	30	J	GH	2	8	M-C-V	200	200	400W/240V	68200
WM	PEORIA	40+266.0	23.0 L	24	J	EF	2	4	M-C-V	200	200	400W/240V	68200
WM	PEORIA	40+276.0	27.0 R	24	J	EF	3	6	M-C-III	200	200	400W/240V	68200
WM	PEORIA	39+864.0	107.0 L	24	J	CD	2	6	M-C-III	200	200	400W/240V	68200
WM	PEORIA	39+953.0	166.0 L	24	J	CD	3	4	M-C-III	200	200	400W/240V	68200
WM	PEORIA	40+012.0	72.0 L	30	J	CD	1	4	M-C-II	300	300	400W/240V	68200
I-74 EB	PEORIA	143+474.4	213.0 L	30	J	EF	4	6	M-C-II	300	300	400W/240V	68200
I-74 EB	PEORIA	143+461.1	106.0 L	30	J	GH	3	8	M-C-II	400	N.A.	400W/240V	68200
I-74 EB	PEORIA	143+527.2	117.4 L	30	J	EF	5	6	M-C-II	400	N.A.	400W/240V	68200
I-74 EB	PEORIA	143+504.0	44.0 L	30	J	GH	4	8	M-C-II	400	N.A.	400W/240V	68200
I-74 EB	PEORIA	143+639.4	65.2 R	30	W	EF	5	4	M-C-II	400	N.A.	400W/240V	68200
I-74 EB	PEORIA	143+741.7	149.2 R	30	W	EF	4	4	M-C-II	400	N.A.	400W/240V	68200
I-74 EB	PEORIA	143+868.3	218.0 R	30	W	EF	3	4	M-C-II	400	N.A.	400W/240V	68200
I-74 EB	PEORIA	143+938.6	40.3 R	30	W	EF	1	4	M-C-II	400	N.A.	400W/240V	68200
I-74 EB	PEORIA	143+989.7	110.6 R	30	W	EF	2	8	M-C-II	400	N.A.	400W/240V	68200
I-74 EB	PEORIA	144+092.0	63.0 R	30	W	EF	6	4	M-C-II	400	N.A.	400W/240V	68200

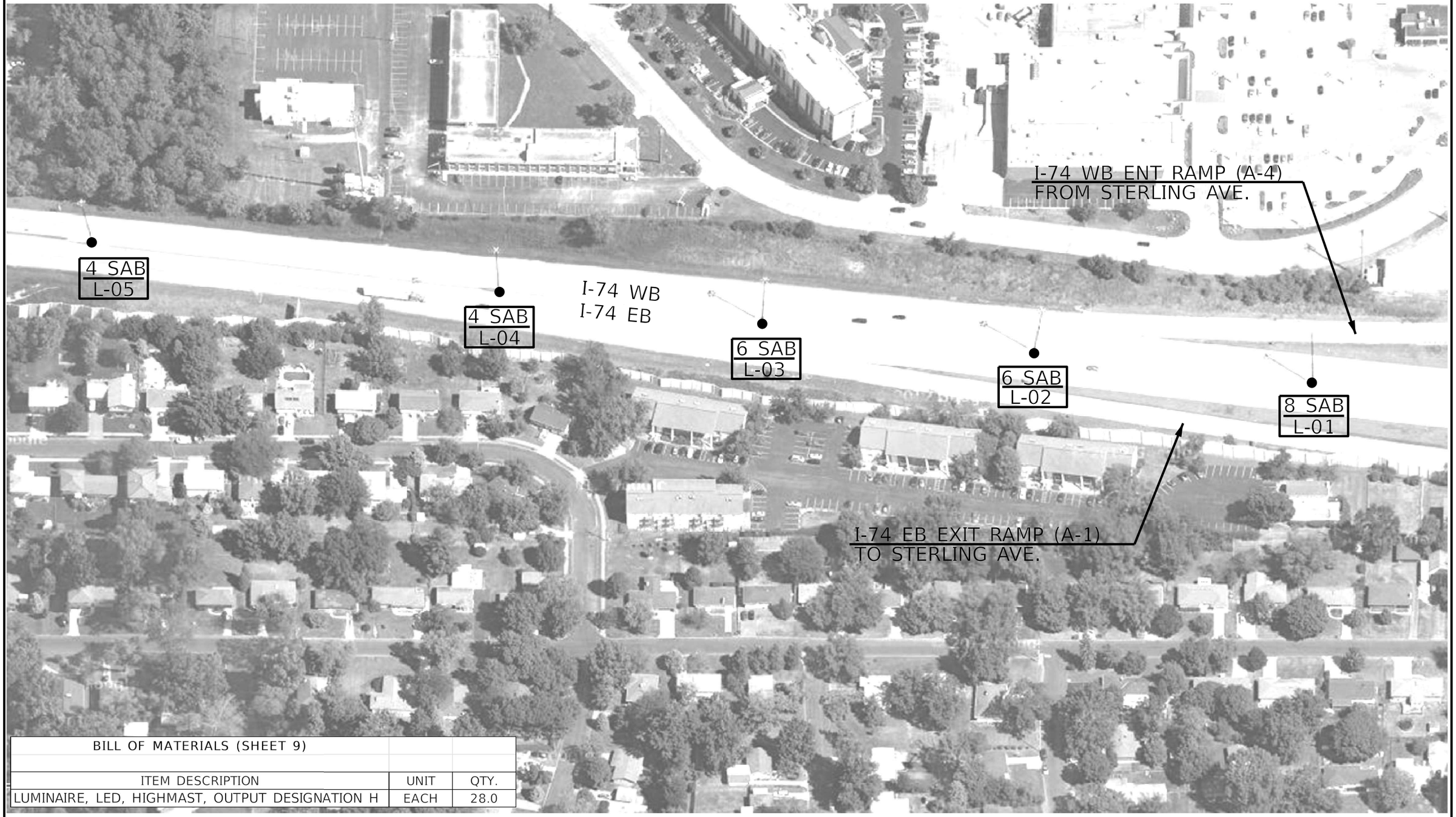
HIGH MAST TOWER LOCATIONS (PEORIA COUNTY)

HIGH MAST TOWER								LUMINAIRE					
LOCATION					IDENTIFICATION			QUANTITY	DISTRIB. TYPE	SHIELD SIZE		WATTAGE/ VOLTAGE	INSTALL CONTRACT
ROADWAY	COUNTY	STATION	OFFSET	HEIGHT (M)	CONT.	CIRCUIT	NUMBER			HOUSE SIDE	STREET SIDE		
I-74 EB	PEORIA	145+666.3	MEDIAN	24	F	CD	5	6	M-C-III	400	400	400W/240V	68197
I-74 EB	PEORIA	145+805.6	MEDIAN	24	G	CD	3	8	M-C-V	300	300	400W/240V	68197
I-74 EB	PEORIA	145+935.6	MEDIAN	24	G	CD	4	5	M-C-III	300	300	400W/240V	68197
I-74 EB	PEORIA	146+066.7	MEDIAN	24	G	EF	1	5	M-C-III	300	300	400W/240V	68197
I-74 EB	PEORIA	146+206.0	MEDIAN	24	G	EF	2	6	M-C-II	400	400	400W/240V	68197
I-74 EB	PEORIA	146+346.0	MEDIAN	24	G	EF	3	6	M-C-II	400	400	400W/240V	68197
I-74 EB	PEORIA	146+489.5	MEDIAN	24	F	AB	4	8	M-C-II	400	400	400W/240V	68198
I-74 EB	PEORIA	146+652.0	MEDIAN	24	F	AB	3	6	M-C-II	400	400	400W/240V	68198
I-74 EB	PEORIA	146+793.0	MEDIAN	24	F	AB	2	6	M-C-III	200	200	400W/240V	68198
I-74 EB	PEORIA	146+931.0	MEDIAN	24	F	AB	1	6	M-C-III	200	200	400W/240V	68198
I-74 EB	PEORIA	146+974.3	34.8 R	24	F	GH	2	3	M-C-II	300	300	400W/240V	68198
I-74 EB	PEORIA	147+059.2	72.0 L	24	N	AB	5	3	M-C-II	200	200	400W/240V	68198
I-74 EB	PEORIA	147+062.0	MEDIAN	24	F	GH	3	8	M-C-V	200	200	400W/240V	68198
I-74 EB	PEORIA	147+102.4	71.4 R	30	F	GH	1	4	M-C-III	300	300	400W/240V	68198
I-74 EB	PEORIA	147+149.0	60.8 L	30	N	AB	4	8	M-C-III	200	200	400W/240V	68198
I-74 EB	PEORIA	147+174.0	114.4 R	30	F	CD	1	4	M-C-III	200	200	400W/240V	68198
I-74 EB	PEORIA	147+198.5	32.3 R	24	F	CD	2	8	M-C-III	200	200	400W/240V	68198
I-74 EB	PEORIA	147+275.3	50.1 L	24	N	AB	3	8	M-C-III	200	200	400W/240V	68198
I-74 EB	PEORIA	147+277.0	56.2 R	30	F	IJ	1	8	M-C-III	200	200	400W/240V	68198
I-74 EB	PEORIA	147+38.0	128.0 L	30	N	AB	2	6	M-C-III	200	200	400W/240V	68198
I-74 EB	PEORIA	147+382.8	45.6 R	24	F	IJ	2	3	M-C-III	200	200	400W/240V	68198
I-74 EB	PEORIA	147+383.4	60.0 L	24	N	AB	1	8	M-C-III	200	200	400W/240V	68198
I-74 EB	PEORIA	147+498.0	36.7 R	24	F	IJ	3	3	M-C-III	200	200	400W/240V	68198
I-74 EB	PEORIA	147+534.0	50.0 L	24	N	CD	1	3	M-C-II	200	200	400W/240V	68198
I-74 EB	PEORIA	147+607.5	46.0 L	24	N	EF	1	3	M-C-II	200	200	400W/240V	68198
I-74 EB	PEORIA	147+614.2	33.3 R	24	F	IJ	4	3	M-C-II	200	200	400W/240V	68198
I-74 EB	PEORIA	147+762.0	46.8 L	24	N	CD	2	3	M-C-II	200	200	400W/240V	68198
I-74 EB	PEORIA	147+768.0	32.5 R	24	F	IJ	5	3	M-C-II	200	200	400W/240V	68198
I-74 EB	PEORIA	147+906.0	WB MEDIAN	24	N	EF	2	8	M-C-III	200	200	400W/240V	68198
I-74 EB	PEORIA	148+007.7	WB MEDIAN	24	N	CD	3	6	M-C-V	200	200	400W/240V	68198
I-74 EB	PEORIA	148+131.1	MEDIAN	24	N	EF	3	6	M-C-III	200	200	400W/240V	68198
I-74 EB	PEORIA	148+245.0	MEDIAN	24	N	CD	4	6	M-C-V	200	200	400W/240V	68198
I-74 EB	PEORIA	148+374.6	MEDIAN	24	E	CD	4	6	M-C-V	200	200	400W/240V	68198
I-74 EB	PEORIA	148+489.8	MEDIAN	24	E	CD	3	6	M-C-V	300	300	400W/240V	68198
I-74 EB	PEORIA	148+605.5	MEDIAN	24	E	CD	2	6	M-C-V	300	300	400W/240V	68198
I-74 EB	PEORIA	148+723.5	MEDIAN	24	E	CD	1	6	M-C-V	300	300	400W/240V	68198
I-74 EB	PEORIA	148+801.3	63.3 L	24	E	FG	1	6	M-C-V	300	300	400W/240V	68198
I-74 EB	PEORIA	148+838.0	MEDIAN	24	E	FG	3	8	M-C-V	300	300	400W/240V	68198
I-74 EB	PEORIA	148+915.1	47.6 L	24	E	FG	2	6	M-C-II	300	300	400W/240V	68198
I-74 EB	PEORIA	149+005.4	MEDIAN	24	E	FG	4	6	M-C-II	300	300	400W/240V	68198
I-74 EB	PEORIA	149+145.7	MEDIAN	24	G	AB	4	6	M-C-II	300	300	400W/240V	68198

HIGH MAST TOWER LOCATIONS (PEORIA COUNTY)

HIGH MAST TOWER								LUMINAIRE					
LOCATION					IDENTIFICATION			QUANTITY	DISTRIB. TYPE	SHIELD SIZE		WATTAGE/ VOLTAGE	INSTALL CONTRACT
ROADWAY	COUNTY	STATION	OFFSET	HEIGHT (M)	CONT.	CIRCUIT	NUMBER			HOUSE SIDE	STREET SIDE		
I-74 EB	PEORIA	149+866.5	MEDIAN	24	G	CD	3	8	M-C-II	300	300	400W/240V	68196
I-74 EB	PEORIA	150+006.5	MEDIAN	24	A	BC	1	8	M-C-II	300	300	400W/240V	68196
I-74 EB	PEORIA	150+152.0	MEDIAN	24	A	FG	1	8	M-C-II	300	300	400W/240V	68196
I-74 EB	PEORIA	150+130.0	44.0 R	24	A	DE	2	4	M-C-II	300	300	400W/240V	68196
I-74 EB	PEORIA	150+199.0	39.0 R	24	A	DE	1	5	M-C-II	300	300	400W/240V	68196
I-74 EB	PEORIA	150+251.0	MEDIAN	24	A	FG	2	6	M-C-V	300	300	400W/240V	68196
I-74 EB	PEORIA	150+296.0	50.0 L	24	A	HI	1	4	M-C-II	300	300	400W/240V	68196
I-74 EB	PEORIA	150+297.0	31.0 R	24	A	DE	3	5	M-C-III	300	300	400W/240V	68196
I-74 EB	PEORIA	150+342.0	MEDIAN	24	A	FG	3	6	M-C-V	300	300	400W/240V	68196
I-74 EB	PEORIA	150+412.0	26.0 L	24	A	HI	2	4	M-C-II	300	300	400W/240V	68196
I-74 EB	PEORIA	150+439.0	15.0 R	24	A	HI	3	4	M-C-II	300	300	400W/240V	68196
I-74 EB	PEORIA	142+238.1	MEDIAN	24	S	AB	5	4	M-C-III	300	300	400W/240V	68197
I-74 EB	PEORIA	142+586.6	MEDIAN	24	S	AB	2	6	M-C-III	200	200	400W/240V	68197
I-74 EB	PEORIA	142+690.2	MEDIAN	24	S	AB	1	8	M-C-V	200	200	400W/240V	68197
I-74 EB	PEORIA	142+792.9	MEDIAN	24	S	CD	2	8	M-C-V	200	200	400W/240V	68197
I-74 EB	PEORIA	142+925.0	19.2 R	30	S	CD	1	5	M-C-II	300	300	400W/240V	68197
I-74 EB	PEORIA	143+046.2	41.0 R	30	S	JK	1	4	M-C-II	400	N.A.	400W/240V	68197
I-74 EB	PEORIA	143+189.7	25.8 R	30	S	JK	2	4	M-C-II	400	N.A.	400W/240V	68197
I-74 EB	PEORIA	143+353.6	24.5 R	30	S	JK	3	4	M-C-II	400	N.A.	400W/240V	68197
I-74 EB	PEORIA	143+515.7	26.0 R	30	S	JK	4	4	M-C-II	400	N.A.	400W/240V	68197
I-74 EB	PEORIA	143+650.0	MEDIAN	24	W	AB	2	8	M-C-III	200	200	400W/240V	68197
I-74 EB	PEORIA	143+767.0	MEDIAN	24	W	AB	1	8	M-C-III	200	200	400W/240V	68197
I-74 EB	PEORIA	143+891.0	MEDIAN	24	W	GH	1	8	M-C-III	200	200	400W/240V	68197
I-74 EB	PEORIA	144+026.0	MEDIAN	24	W	GH	2	6	M-C-III	200	200	400W/240V	68197
I-74 EB	PEORIA	144+152.7	MEDIAN	24	W	GH	3	6	M-C-III	200	200	400W/240V	68197
I-74 EB	PEORIA	144+282.7	MEDIAN	24	W	GH	4	6	M-C-III	200	200	400W/240V	68197
I-74 EB	PEORIA	144+424.1	MEDIAN	24	F	GH	3	6	M-C-III	200	200	400W/240V	68197
I-74 EB	PEORIA	144+582.0	MEDIAN	24	F	GH	2	6	M-C-III	400	400	400W/240V	68197
I-74 EB	PEORIA	144+731.6	MEDIAN	24	F	GH	1	6	M-C-III	300	300	400W/240V	68197
I-74 EB	PEORIA	144+849.3	MEDIAN	24	F	AB	4	6	M-C-III	300	300	400W/240V	68197
I-74 EB	PEORIA	144+991.2	MEDIAN	24	F	AB	3	5	M-C-III	300	300	400W/240V	68197
I-74 EB	PEORIA	145+050.0	38.0 R	30	F	AB	2	3	M-C-III	400	400	400W/240V	68197
I-74 EB	PEORIA	145+121.2	MEDIAN	24	G	AB	4	5	M-C-III	200	200	400W/240V	68197
I-74 EB	PEORIA	145+144.6	30.0 R	30	F	AB	1	3	M-C-III	400	400	400W/240V	68197
I-74 EB	PEORIA	145+238.7	MEDIAN	24	G	AB	3	8	M-C-III	200	200	400W/240V	68197
I-74 EB	PEORIA	145+299.2	62.6 L	30	G	AB	2	3	M-C-III	400	400	400W/240V	68197
I-74 EB	PEORIA	145+376.2	92.3 L	30	G	AB	1	8	M-C-III	200	200	400W/240V	68197
I-74 EB	PEORIA	145+385.2	MEDIAN	24	F	CD	3	6	M-C-III	200	200	400W/240V	68197
I-74 EB	PEORIA	145+295.8	69.8 R	30	F	CD	1	8	M-C-V	200	200	400W/240V	68197
I-74 EB	PEORIA	145+400.3	38.3 R	30	F	CD	2	3	M-C-II	400	400	400W/240V	68197
I-74 EB	PEORIA	145+524.8	MEDIAN	24	F	CD	4	6	M-C-III	200	200	400W/240V	68197

UNDERPASS LUMINAIRE LOCATIONS						
LOCATION		IDENTIFICATION		QUANTITY	WATTAGE/	INSTALLED
ROADWAY	COUNTY	CONT.	CIRCUIT		VOLTAGE	CONTRACT
I-74 OVER MONROE ST.	PEORIA	G	CD	8	100W/240V	68196
I-74 OVER MADISON ST.	PEORIA	A	BC	8	100W/240V	68196
I-74 OVER IL 29 (JEFFERSON ST.)	PEORIA	A	BC	12	100W/240V	68196
RAMP G-2 OVER RAMP G-1	PEORIA	A	DE	2	100W/240V	68196
I-74 OVER IL 29 (ADAMS ST.)	PEORIA	A	FG	10	100W/240V	68196
I-74 OVER US 24 (WASHINGTON ST.)	PEORIA	A	HI	6	100W/240V	68196
STERLING AVE. OVER I-74	PEORIA	S	CD	10	100W/240V	68197
FORREST HILL OVER I-74	PEORIA	F	AB	12	100W/240V	68197
GALE AVE. OVER I-74	PEORIA	F	CD	12	100W/240V	68197
I-74 @ NEBRASKA	PEORIA	F	AB	8	100W/240V	68198
I-74 @ UNIVERSITY ST.	PEORIA	F	CD	12	100W/240V	68198
I-74 @ BROADWAY	PEORIA	F	IJ	8	100W/240V	68198
I-74 @ SHERIDAN RD.	PEORIA	N	EF	8	100W/240V	68198
I-74 @ ELLIS ST.	PEORIA	N	CD	8	100W/240V	68198
I-74 @ NORTH ST.	PEORIA	E	CD	12	100W/240V	68198
RAMP E-1 OVER I-74	PEORIA	E	AB	7	100W/240V	68198
I-74 @ SB IL 40 (KNOXVILLE AVE.)	PEORIA	E	FG	10	100W/240V	68198
I-74 @ GLEN OAK AVE.	PEORIA	G	AB	10	100W/240V	68198
I-74 @ PERRY AVE.	PEORIA	G	CD	8	100W/240V	68198
RAMP A-3 OVER RAMP B-5	PEORIA	S	HI	2	100W/240V	68200
RAMPS B-1 & B-4 OVER I-74	PEORIA	W	AB	15	100W/240V	68200
RAMPS B-3 & B-5 OVER US 150 (WAR DR.)	PEORIA	J	EF	12	100W/240V	68200



BILL OF MATERIALS (SHEET 9)		
ITEM DESCRIPTION	UNIT	QTY.
LUMINAIRE, LED, HIGHMAST, OUTPUT DESIGNATION H	EACH	28.0

NOT TO SCALE

MODEL: $MODEL$NAME$
FILE NAME: $FILE$

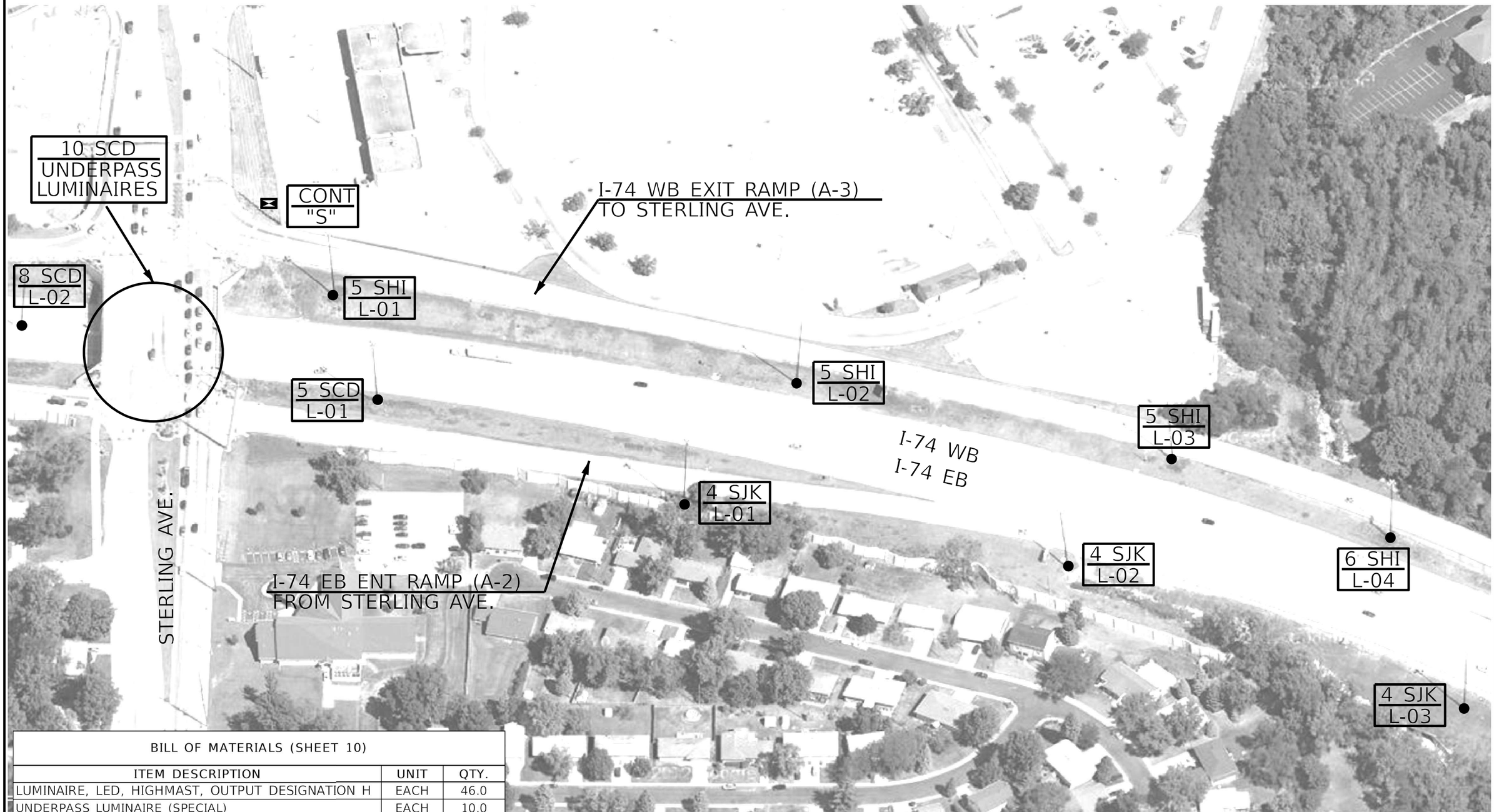
USER NAME = $USER$	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = $SCALE$	CHECKED -	REVISED -
PLOT DATE = $DATE$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHT TOWER LUMINAIRE REPLACEMENT
I-74 AT STERLING AVE.

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	72(7-9)L	PEORIA	34	9
		CONTRACT NO. 68K24		
	ILLINOIS	FED. AID PROJECT		



BILL OF MATERIALS (SHEET 10)

ITEM DESCRIPTION	UNIT	QTY.
LUMINAIRE, LED, HIGHMAST, OUTPUT DESIGNATION H	EACH	46.0
UNDERPASS LUMINAIRE (SPECIAL)	EACH	10.0

NOT TO SCALE

MODEL: $MODEL$NAME$
FILE NAME: $FILE$

USER NAME = $USER$	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = $SCALE$	CHECKED -	REVISED -
PLOT DATE = $DATE$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

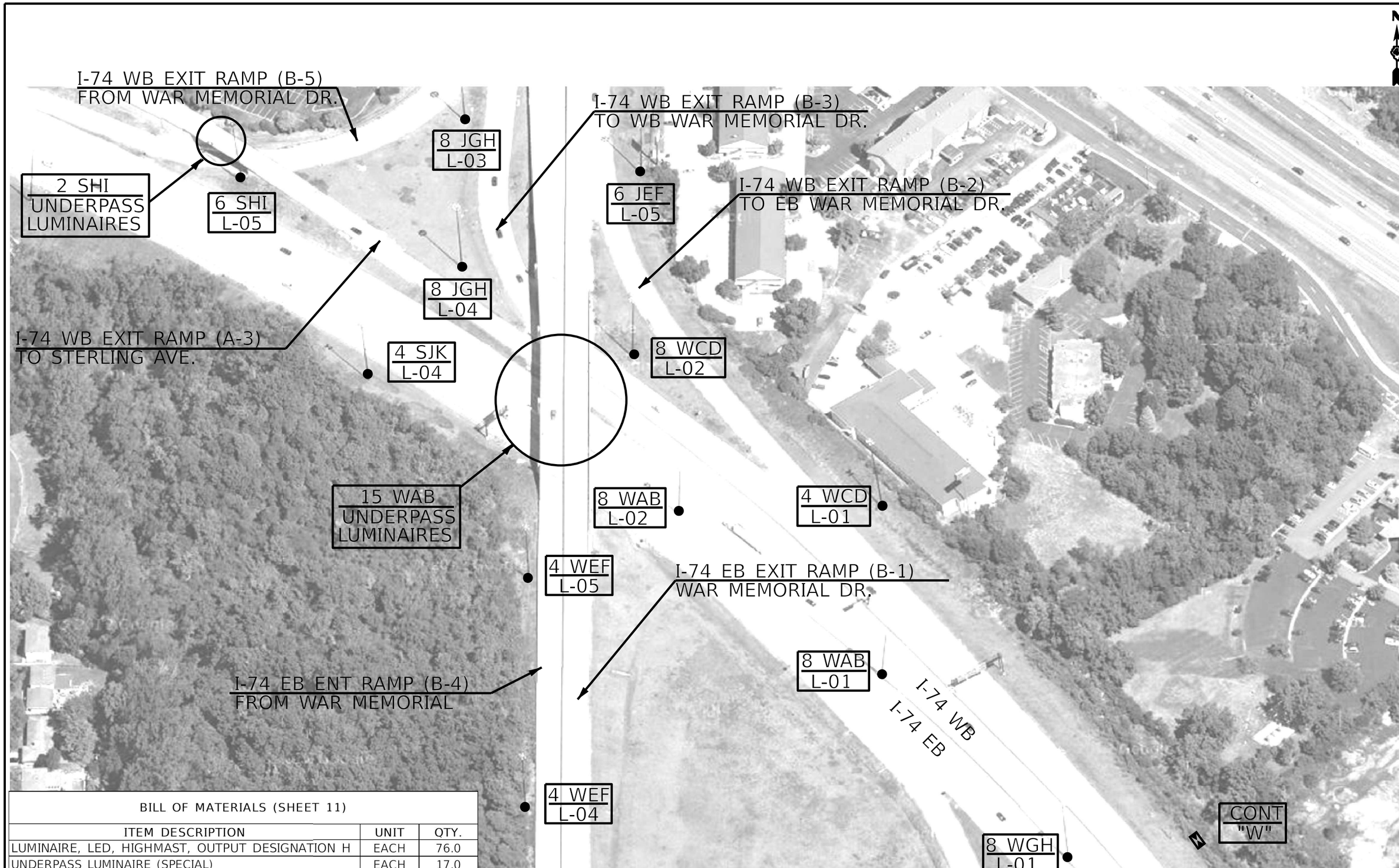
LIGHT TOWER LUMINAIRE REPLACEMENT
I-74 AT STERLING AVE. (CONTINUED)

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	72(7-9)L	PEORIA	34	10

CONTRACT NO. 68K24

ILLINOIS | FED. AID PROJECT



BILL OF MATERIALS (SHEET 11)		
ITEM DESCRIPTION	UNIT	QTY.
LUMINAIRE, LED, HIGHMAST, OUTPUT DESIGNATION H	EACH	76.0
UNDERPASS LUMINAIRE (SPECIAL)	EACH	17.0

NOT TO SCALE

MODEL: $MODELNAME$
FILE NAME: $FILE$

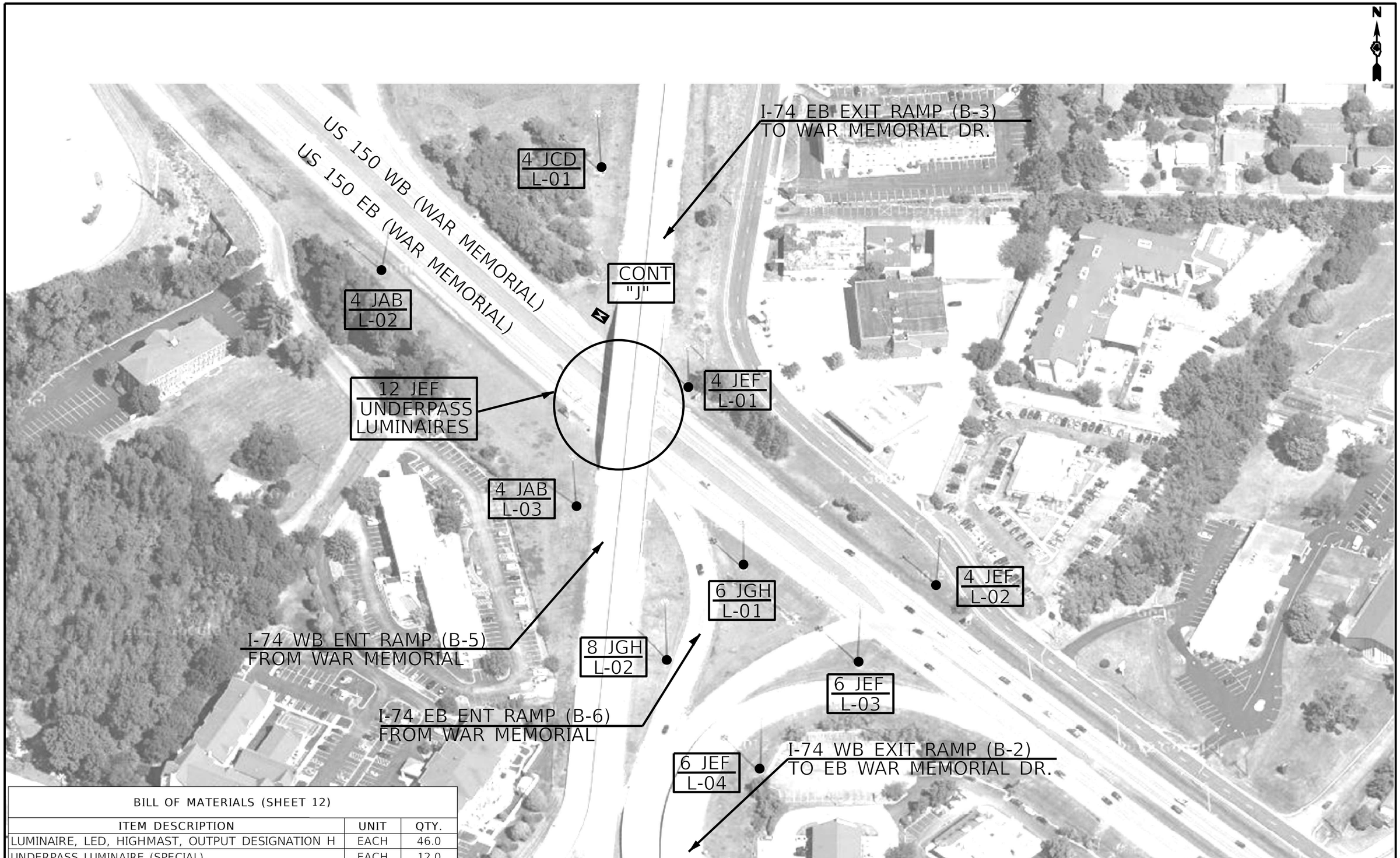
USER NAME = $USER$	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = $SCALE$	CHECKED -	REVISED -
PLOT DATE = $DATE$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHT TOWER LUMINAIRE REPLACEMENT
I-74 AT US 150 (WAR MEMORIAL DR.)

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	72(7-9)L	PEORIA	34	11
		CONTRACT NO. 68K24		
		ILLINOIS FED. AID PROJECT		



BILL OF MATERIALS (SHEET 12)		
ITEM DESCRIPTION	UNIT	QTY.
LUMINAIRE, LED, HIGHMAST, OUTPUT DESIGNATION H	EACH	46.0
UNDERPASS LUMINAIRE (SPECIAL)	EACH	12.0

NOT TO SCALE

MODEL: $MODELNAME$
FILE NAME: $FILEN$

USER NAME = $USER$	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = $SCALE$	CHECKED -	REVISED -	
PLOT DATE = $DATE$	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHT TOWER LUMINAIRE REPLACEMENT
I-74 AT US 150 (WAR MEMORIAL DR.) (CONTINUED)

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	72(7-9)L	PEORIA	34	12

CONTRACT NO. 68K24

ILLINOIS | FED. AID PROJECT

BILL OF MATERIALS (SHEET 13)		
ITEM DESCRIPTION	UNIT	QTY.
LUMINAIRE, LED, HIGHMAST, OUTPUT DESIGNATION H	EACH	28.0

NOT TO SCALE

MODEL: $MODELNAME$
FILE NAME: $FILE$

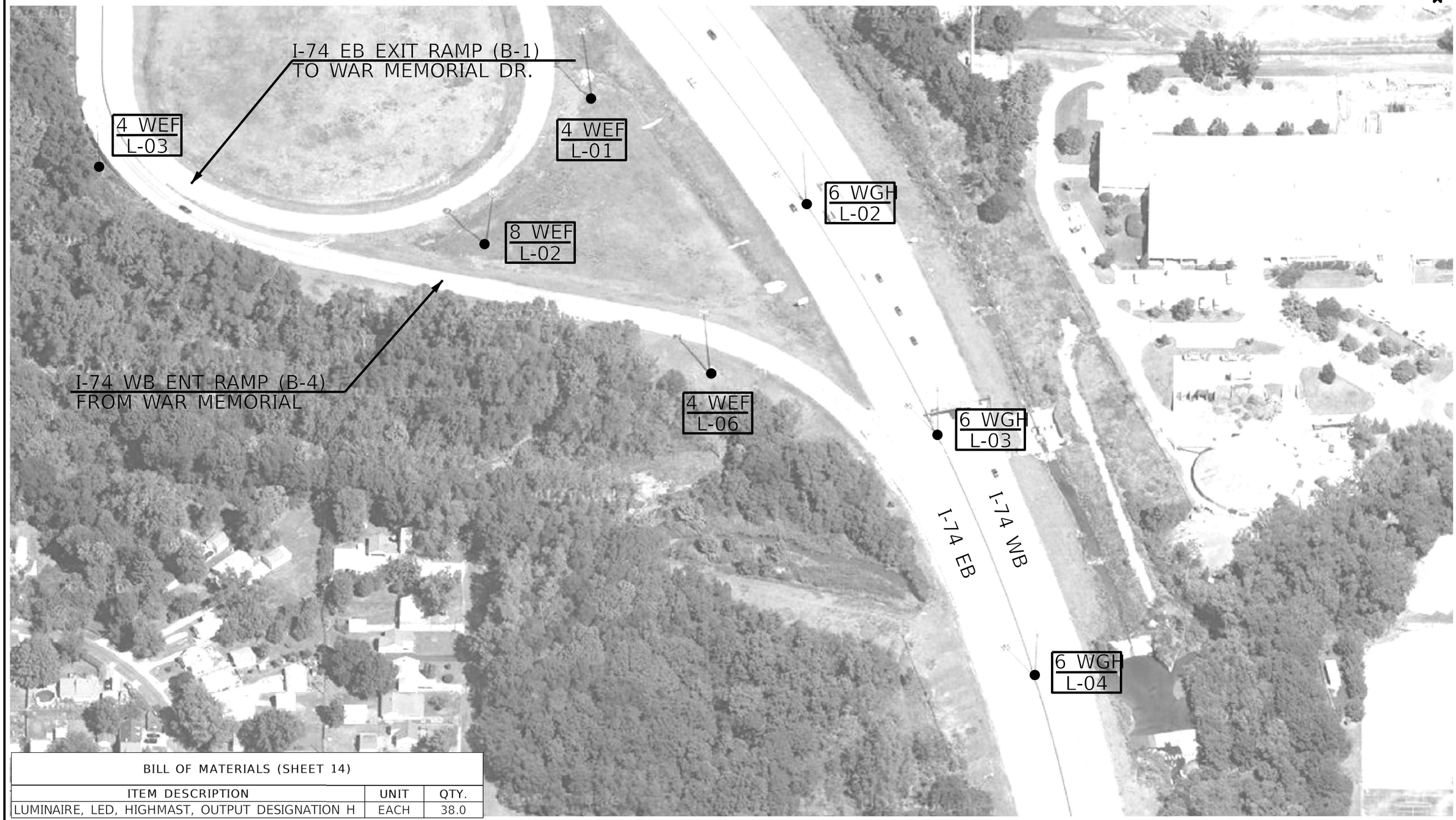
USER NAME = $USER$	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = $SCALE$	CHECKED -	REVISED -
PLOT DATE = $DATE$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHT TOWER LUMINAIRE REPLACMENT
I-74 AT US 150 (WAR MEMORIAL DR.) (CONTINUED)

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	72(7-9)L	PEORIA	34	13
		CONTRACT NO. 68K24		
	ILLINOIS	FED. AID PROJECT		



BILL OF MATERIALS (SHEET 14)		
ITEM DESCRIPTION	UNIT	QTY.
LUMINAIRE, LED, HIGHMAST, OUTPUT DESIGNATION H	EACH	38.0

NOT TO SCALE

MODEL: $MODEL$NAME$
FILE NAME: $FILEL$

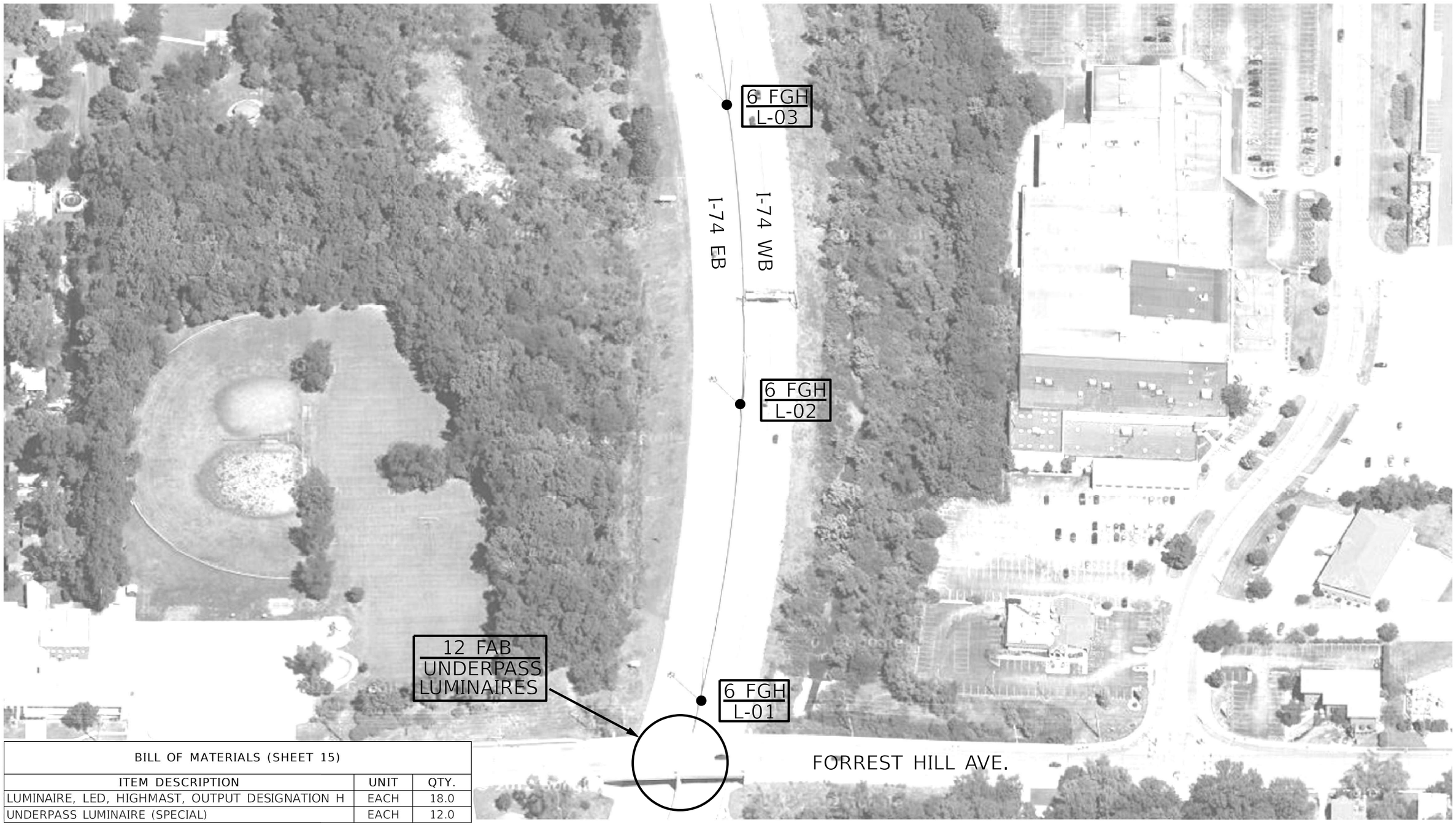
USER NAME = $USER$	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = $SCALE$	CHECKED -	REVISED -
PLOT DATE = $DATE$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHT TOWER LUMINAIRE REPLACEMENT
I-74 AT US 150 (WAR MEMORIAL DR.) (CONTINUED)

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	72(7-9)L	PEORIA	34	14
		CONTRACT NO. 68K24		
		ILLINOIS	FED. AID PROJECT	



BILL OF MATERIALS (SHEET 15)		
ITEM DESCRIPTION	UNIT	QTY.
LUMINAIRE, LED, HIGHMAST, OUTPUT DESIGNATION H	EACH	18.0
UNDERPASS LUMINAIRE (SPECIAL)	EACH	12.0

NOT TO SCALE

MODEL: $MODEL$NAME$
FILE NAME: $FILEL$

USER NAME = $USER$	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = $SCALE$	CHECKED -	REVISED -	
PLOT DATE = $DATE$	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHT TOWER LUMINAIRE REPLACEMENT
I-74 AT FORREST HILL AVE.

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	72(7-9)L	PEORIA	34	15
		CONTRACT NO. 68K24		
	ILLINOIS	FED. AID PROJECT		

BILL OF MATERIALS (SHEET 16)		
ITEM DESCRIPTION	UNIT	QTY.
LUMINAIRE, LED, HIGHMAST, OUTPUT DESIGNATION H	EACH	30.0

NOT TO SCALE

MODEL: $MODELNAME$
FILE NAME: $FILEL$

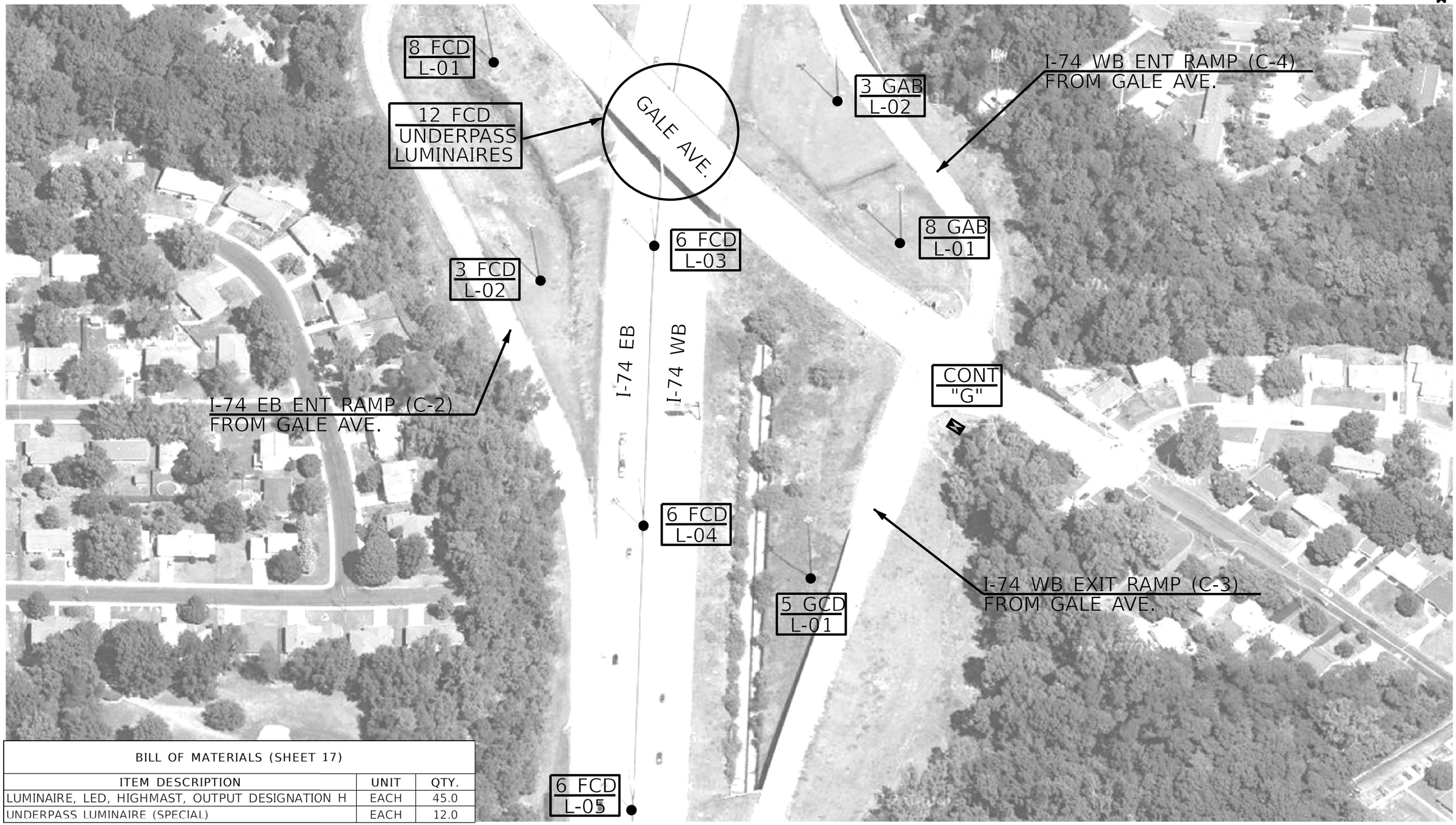
USER NAME = $USER$	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = $SCALE$	CHECKED -	REVISED -
PLOT DATE = $DATE$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHT TOWER LUMINAIRE REPLACEMENT
I-74 AT GALE AVE.

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	72(7-9)L	PEORIA	34	16
		CONTRACT NO. 68K24		
	ILLINOIS	FED. AID PROJECT		



BILL OF MATERIALS (SHEET 17)		
ITEM DESCRIPTION	UNIT	QTY.
LUMINAIRE, LED, HIGHMAST, OUTPUT DESIGNATION H	EACH	45.0
UNDERPASS LUMINAIRE (SPECIAL)	EACH	12.0

NOT TO SCALE

MODEL: $MODELNAME$
FILE NAME: $FILEL$

USER NAME = $USER$	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = $SCALE$	CHECKED -	REVISED -
PLOT DATE = $DATE$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHT TOWER LUMINAIRE REPLACEMENT
I-74 AT GALE AVE. (CONTINUED)

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	72(7-9)L	PEORIA	34	17
		CONTRACT NO. 68K24		
	ILLINOIS	FED. AID PROJECT		

BILL OF MATERIALS (SHEET 18)		
ITEM DESCRIPTION	UNIT	QTY.
LUMINAIRE, LED, HIGHMAST, OUTPUT DESIGNATION H	EACH	23.0

NOT TO SCALE

MODEL: $MODELNAME$
FILE NAME: $FILEN$

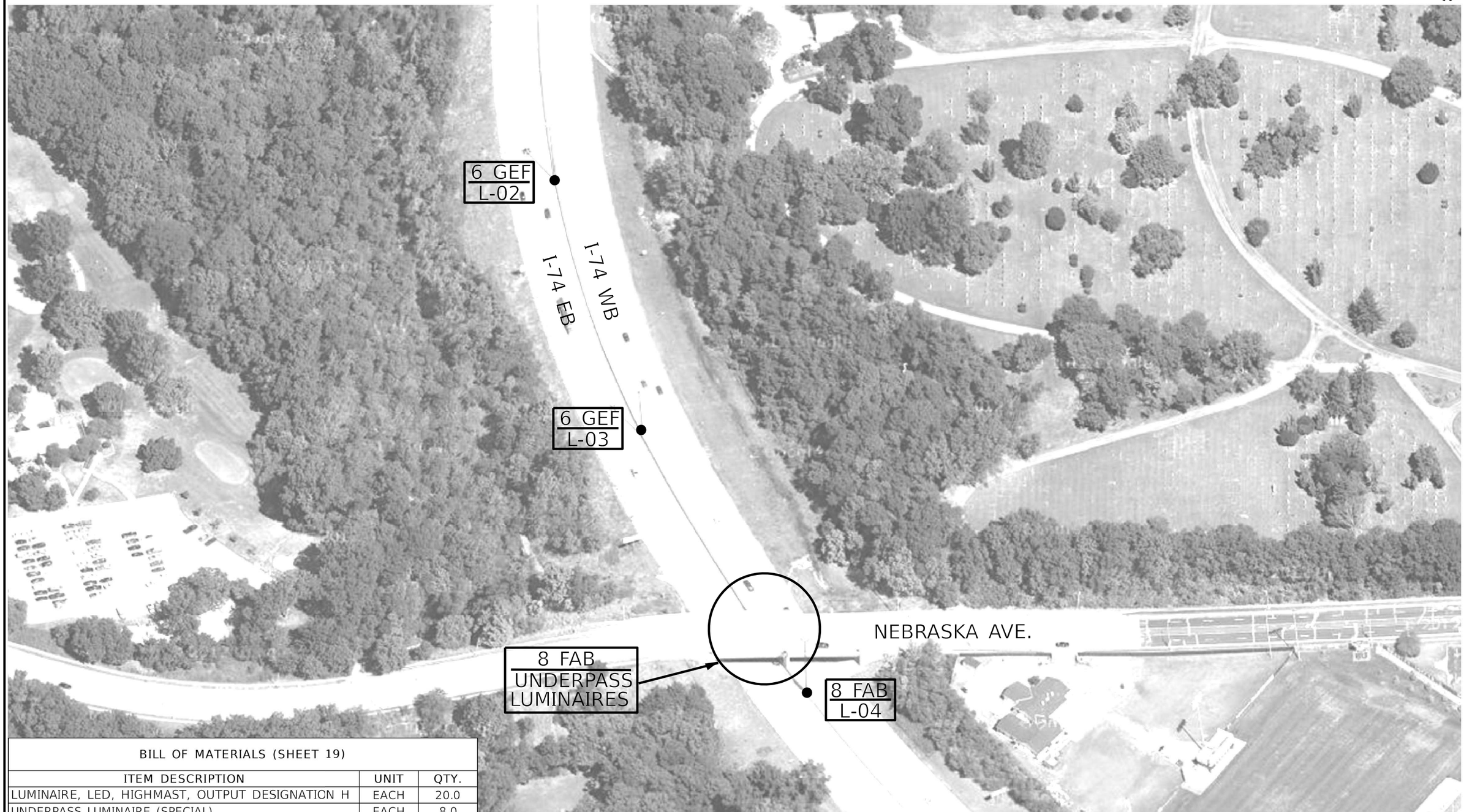
USER NAME = $USER$	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = $SCALE$	CHECKED -	REVISED -
PLOT DATE = $DATE$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHT TOWER LUMINAIRE REPLACEMENT
I-74 AT GALE AVE. (CONTINUED)

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	72(7-9)L	PEORIA	34	18
		CONTRACT NO. 68K24		
	ILLINOIS	FED. AID PROJECT		



BILL OF MATERIALS (SHEET 19)		
ITEM DESCRIPTION	UNIT	QTY.
LUMINAIRE, LED, HIGHMAST, OUTPUT DESIGNATION H	EACH	20.0
UNDERPASS LUMINAIRE (SPECIAL)	EACH	8.0

NOT TO SCALE

MODEL: $MODELNAME$
FILE NAME: $FILEL$

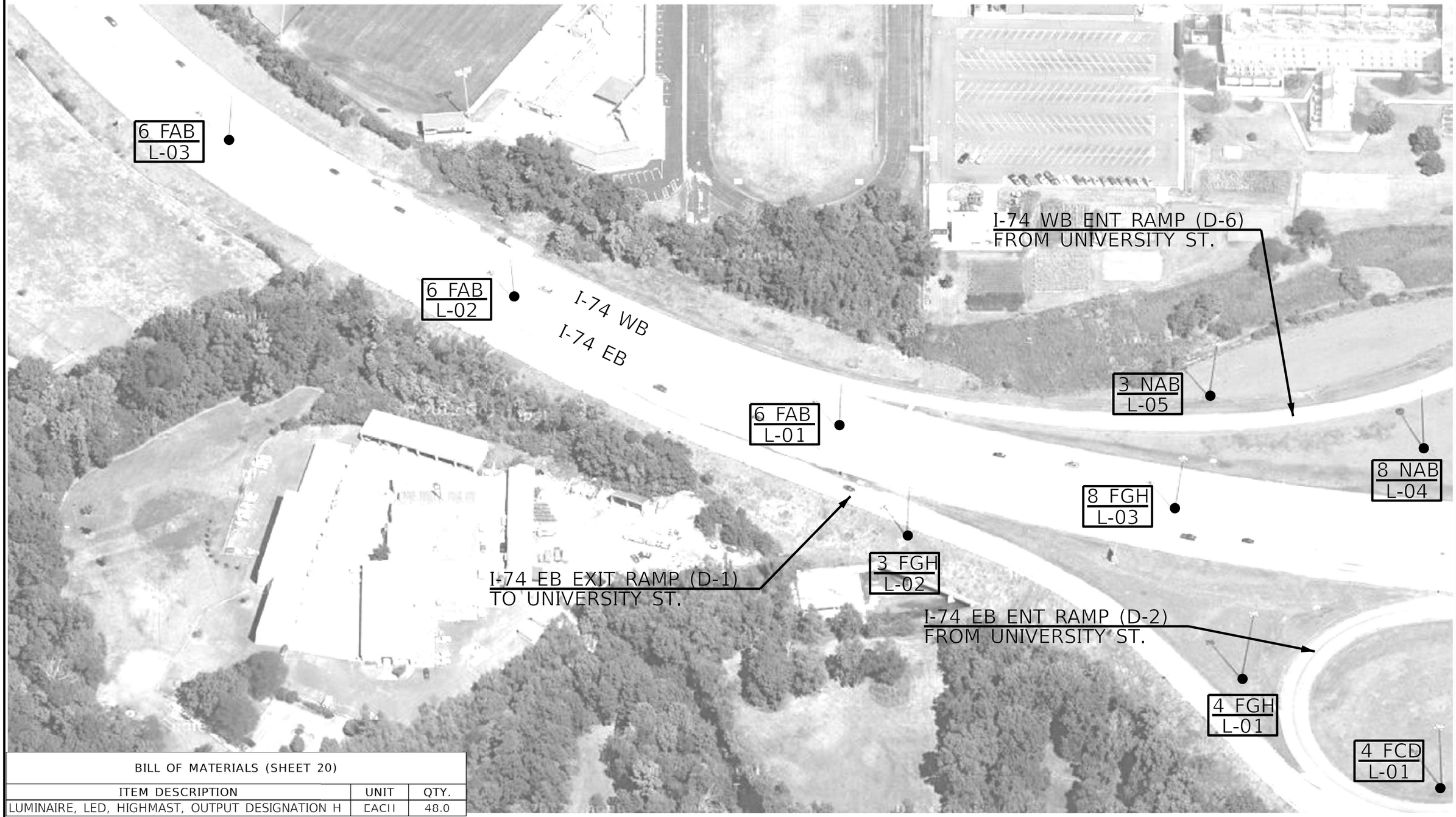
USER NAME = $USER$	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = $SCALE$	CHECKED -	REVISED -
PLOT DATE = $DATE$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHT TOWER LUMINAIRE REPLACEMENT
I-74 AT NEBRASKA AVE.

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	72(7-9)L	PEORIA	34	19
		CONTRACT NO. 68K24		
		ILLINOIS FED. AID PROJECT		



BILL OF MATERIALS (SHEET 20)		
ITEM DESCRIPTION	UNIT	QTY.
LUMINAIRE, LED, HIGHMAST, OUTPUT DESIGNATION H	EACH	48.0

NOT TO SCALE

MODEL: $MODELNAME$
FILE NAME: $FILEL$

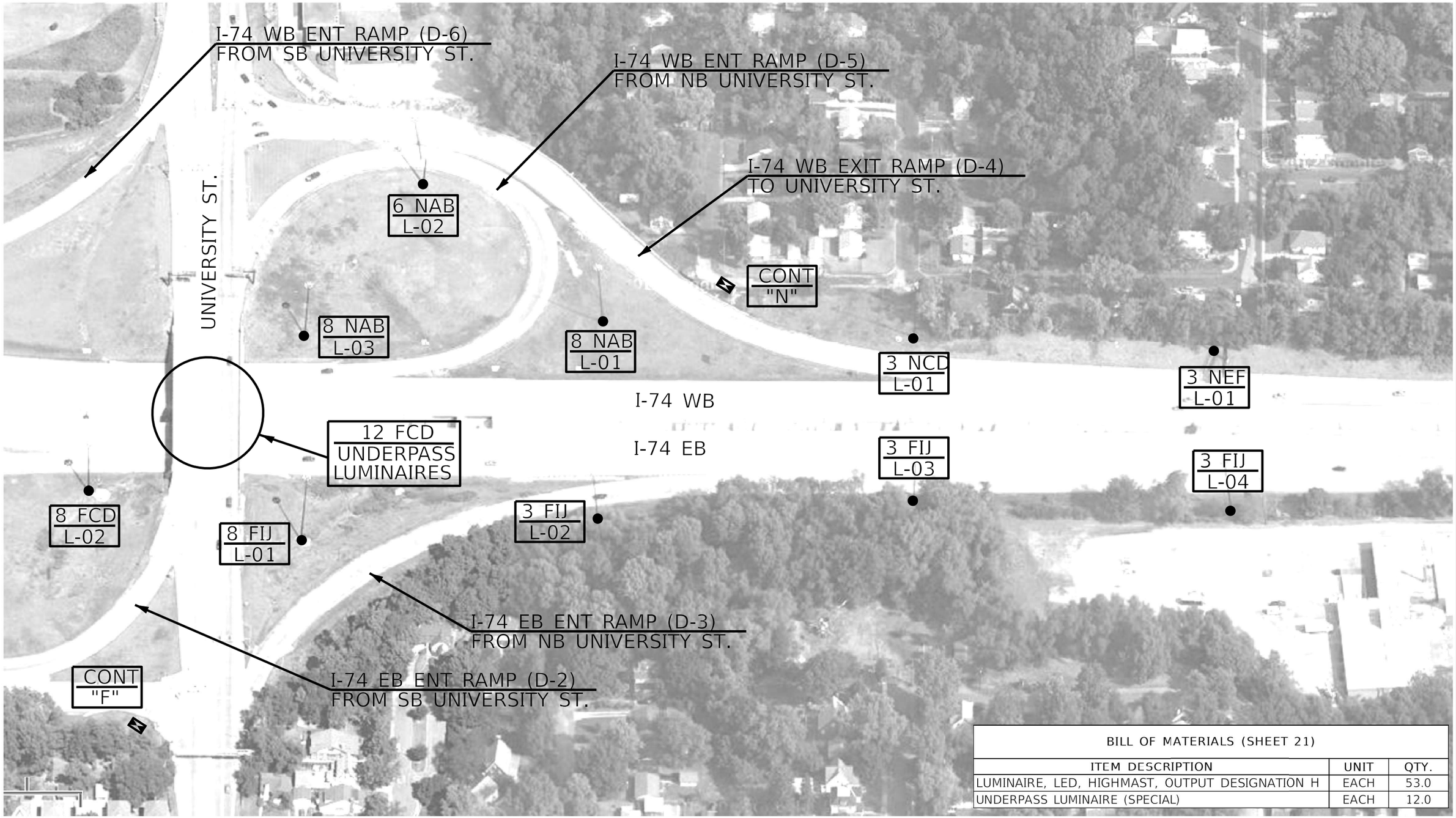
USER NAME = $USER$	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = $SCALE$	CHECKED -	REVISED -	
PLOT DATE = $DATE$	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHT TOWER LUMINAIRE REPLACEMENT
I-74 AT UNIVERSITY ST.

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	72(7-9)L	PEORIA	34	20
		CONTRACT NO. 68K24		
	ILLINOIS	FED. AID PROJECT		



BILL OF MATERIALS (SHEET 21)

ITEM DESCRIPTION	UNIT	QTY.
LUMINAIRE, LED, HIGHMAST, OUTPUT DESIGNATION H	EACH	53.0
UNDERPASS LUMINAIRE (SPECIAL)	EACH	12.0

NOT TO SCALE

MODEL: $MODELNAME$
FILE NAME: $FILEL$

USER NAME = $USER$	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = $SCALE$	CHECKED -	REVISED -	
PLOT DATE = $DATE$	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

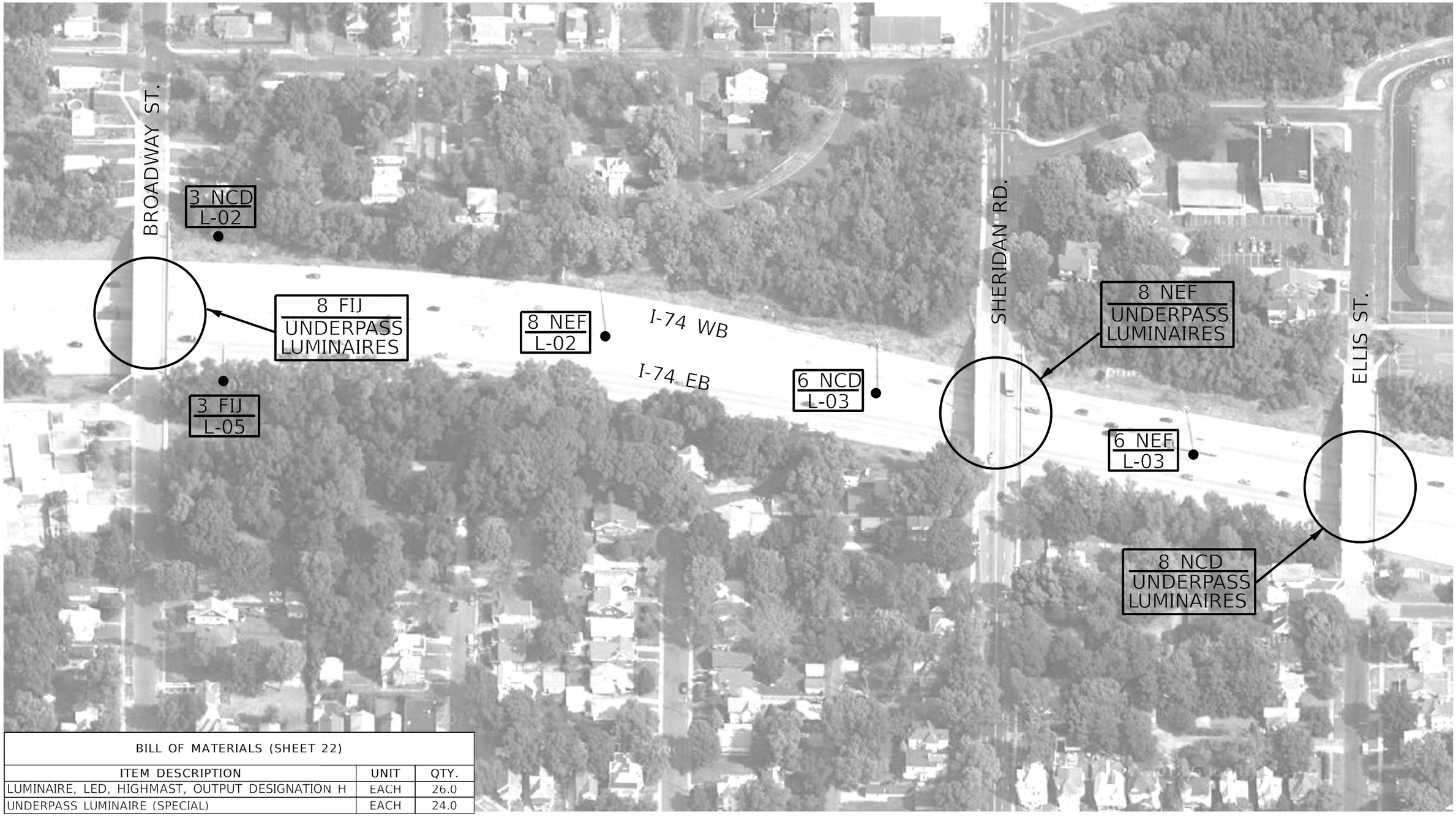
LIGHT TOWER LUMINAIRE REPLACEMENT
I-74 AT UNIVERSITY ST. (CONTINUED)

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	72(7-9)L	PEORIA	34	21

CONTRACT NO. 68K24

ILLINOIS FED. AID PROJECT



BILL OF MATERIALS (SHEET 22)		
ITEM DESCRIPTION	UNIT	QTY.
LUMINAIRE, LED, HIGHMAST, OUTPUT DESIGNATION H	EACH	26.0
UNDERPASS LUMINAIRE (SPECIAL)	EACH	24.0

NOT TO SCALE

MODEL: $MODELNAME$
FILE NAME: $FILEL$

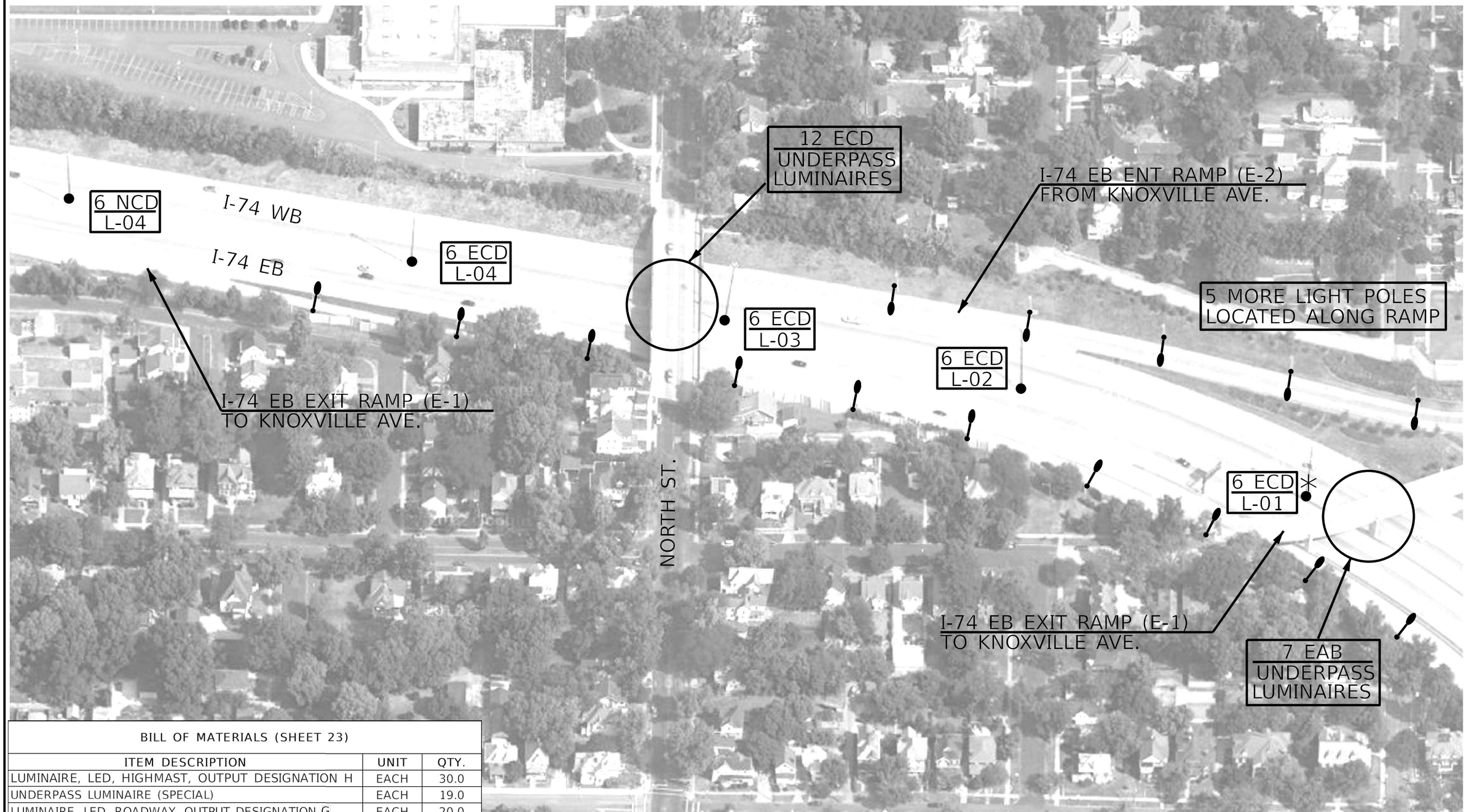
USER NAME = $USER$	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = $SCALE$	CHECKED -	REVISED -	
PLOT DATE = $DATE$	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHT TOWER LUMINAIRE REPLACEMENT
I-74 AT BROADWAY ST., SHERIDAN RD., & ELLIS ST.

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	72(7-9)L	PEORIA	34	22
		CONTRACT NO. 68K24		
	ILLINOIS	FED. AID PROJECT		



BILL OF MATERIALS (SHEET 23)		
ITEM DESCRIPTION	UNIT	QTY.
LUMINAIRE, LED, HIGHMAST, OUTPUT DESIGNATION H	EACH	30.0
UNDERPASS LUMINAIRE (SPECIAL)	EACH	19.0
LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION G	EACH	20.0

NOT TO SCALE

MODEL: $MODELNAME$
FILE NAME: $FILE$

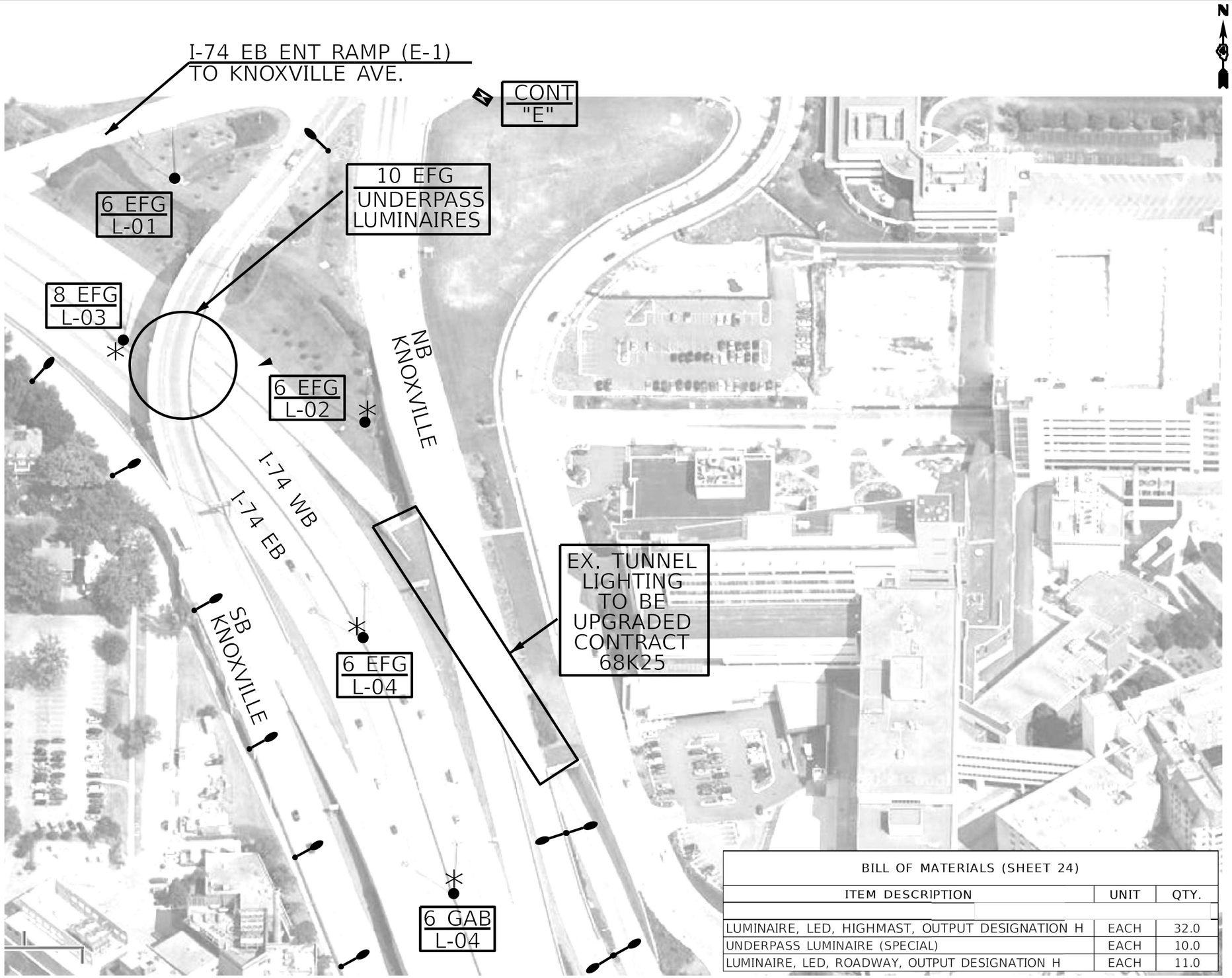
USER NAME = $USER$	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = $SCALE$	CHECKED -	REVISED -
PLOT DATE = $DATE$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHT TOWER LUMINAIRE REPLACEMENT
I-74 AT NORTH ST.

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	72(7-9)L	PEORIA	34	23
		CONTRACT NO. 68K24		
		ILLINOIS FED. AID PROJECT		



BILL OF MATERIALS (SHEET 24)

ITEM DESCRIPTION	UNIT	QTY.
LUMINAIRE, LED, HIGHMAST, OUTPUT DESIGNATION H	EACH	32.0
UNDERPASS LUMINAIRE (SPECIAL)	EACH	10.0
LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	11.0

NOT TO SCALE

MODEL: $MODEL NAME$
FILE NAME: $FILEL$

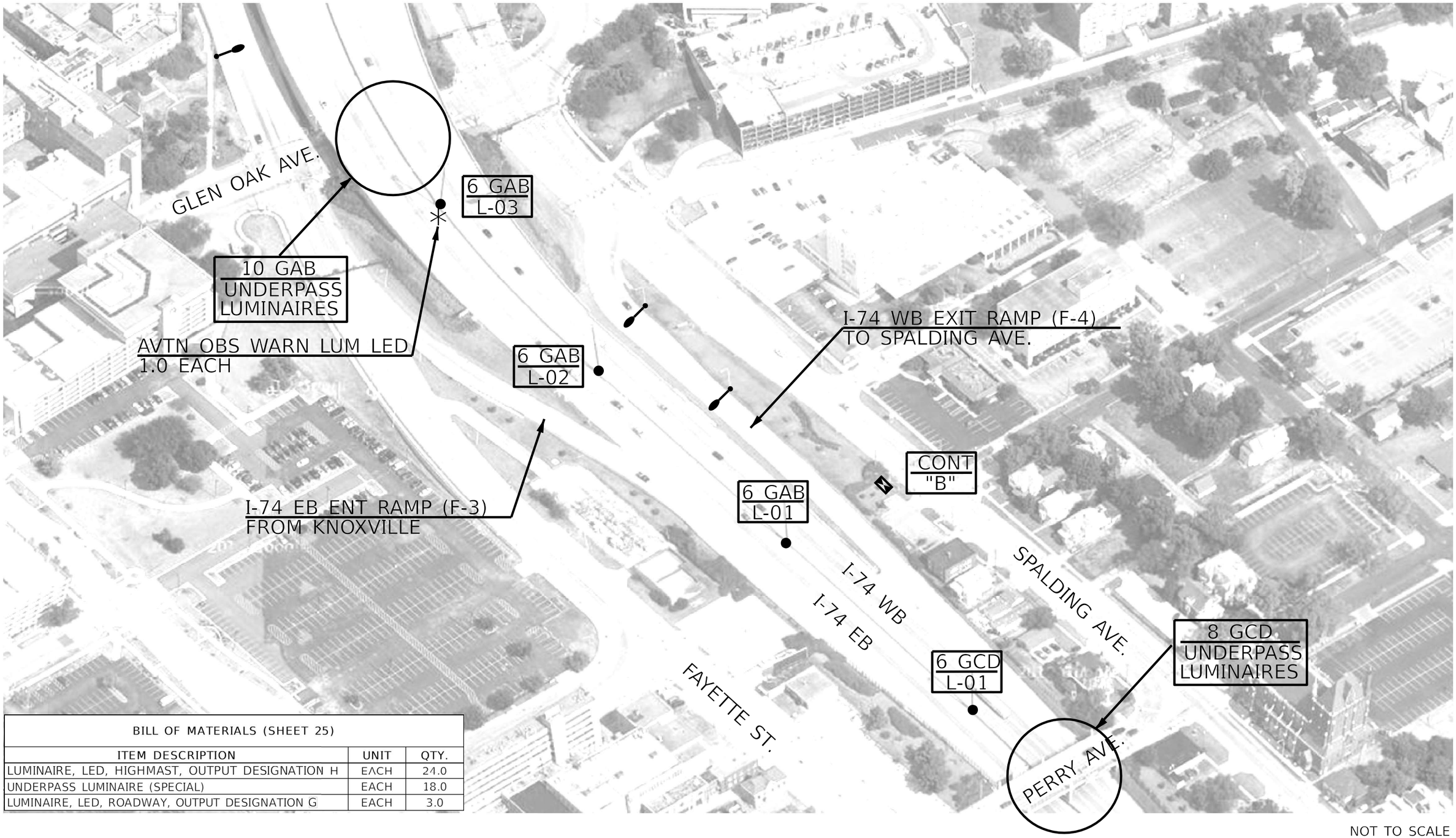
USER NAME = $USER$	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = $SCALE$	CHECKED -	REVISED -
PLOT DATE = $DATE$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHT TOWER LUMINAIRE REPLACEMENT
I-74 AT IL 40 (KNOXVILLE AVE.)

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	72(7-9)L	PEORIA	34	24
		CONTRACT NO. 68K24		
	ILLINOIS	FED. AID PROJECT		



BILL OF MATERIALS (SHEET 25)

ITEM DESCRIPTION	UNIT	QTY.
LUMINAIRE, LED, HIGHMAST, OUTPUT DESIGNATION H	EACH	24.0
UNDERPASS LUMINAIRE (SPECIAL)	EACH	18.0
LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION G	EACH	3.0

NOT TO SCALE

MODEL: $MODELNAME$
FILE NAME: $FILEL$

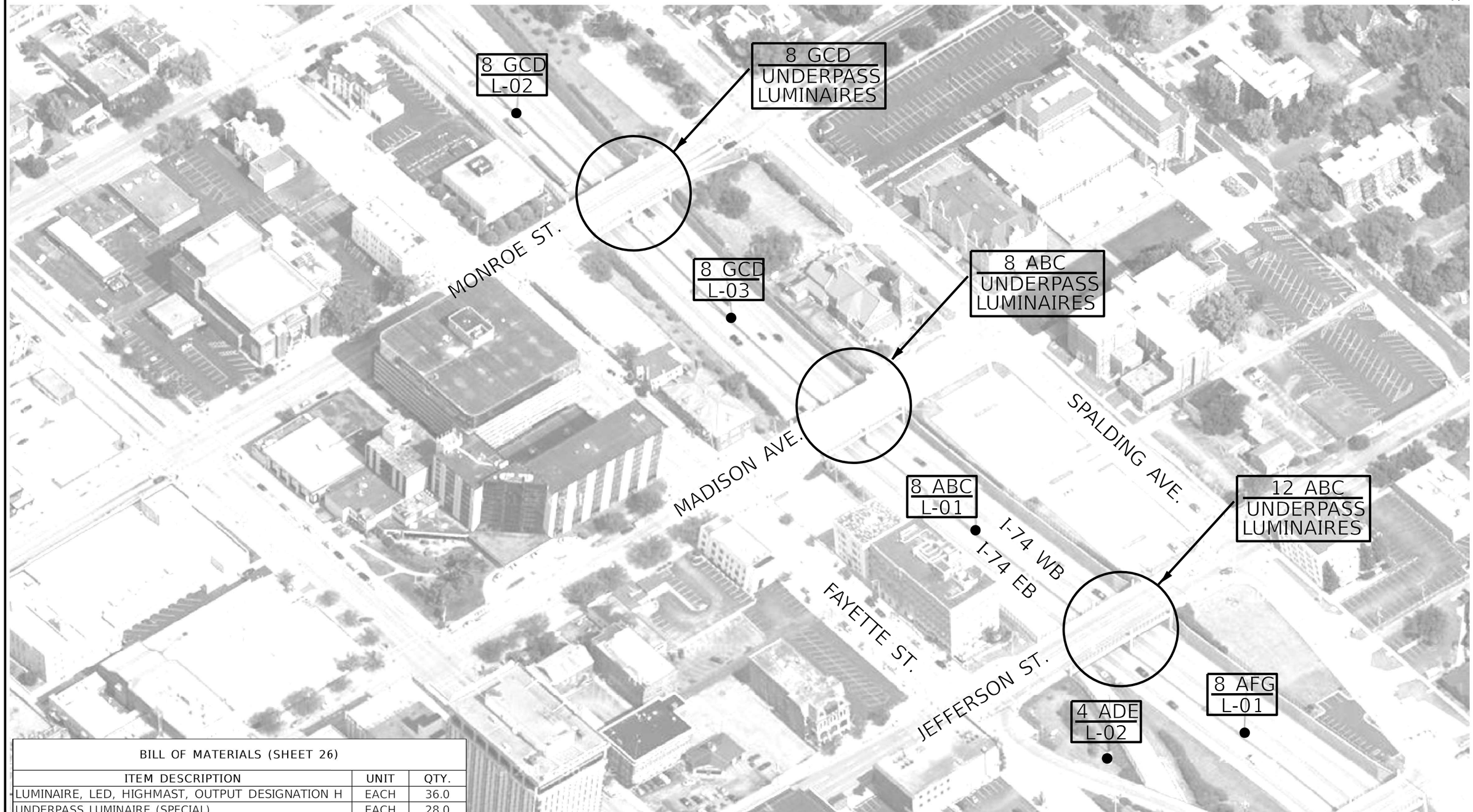
USER NAME = $USER$	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = $SCALE$	CHECKED -	REVISED -	
PLOT DATE = $DATE$	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHT TOWER LUMINAIRE REPLACEMENT
I-74 AT GLEN OAK AVE., PERRY AVE.

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	72(7-9)L	PEORIA	34	25
		CONTRACT NO. 68K24		
	ILLINOIS	FED. AID PROJECT		



BILL OF MATERIALS (SHEET 26)		
ITEM DESCRIPTION	UNIT	QTY.
LUMINAIRE, LED, HIGHMAST, OUTPUT DESIGNATION H	EACH	36.0
UNDERPASS LUMINAIRE (SPECIAL)	EACH	28.0

NOT TO SCALE

MODEL: $MODELNAME$
FILE NAME: $FILE$

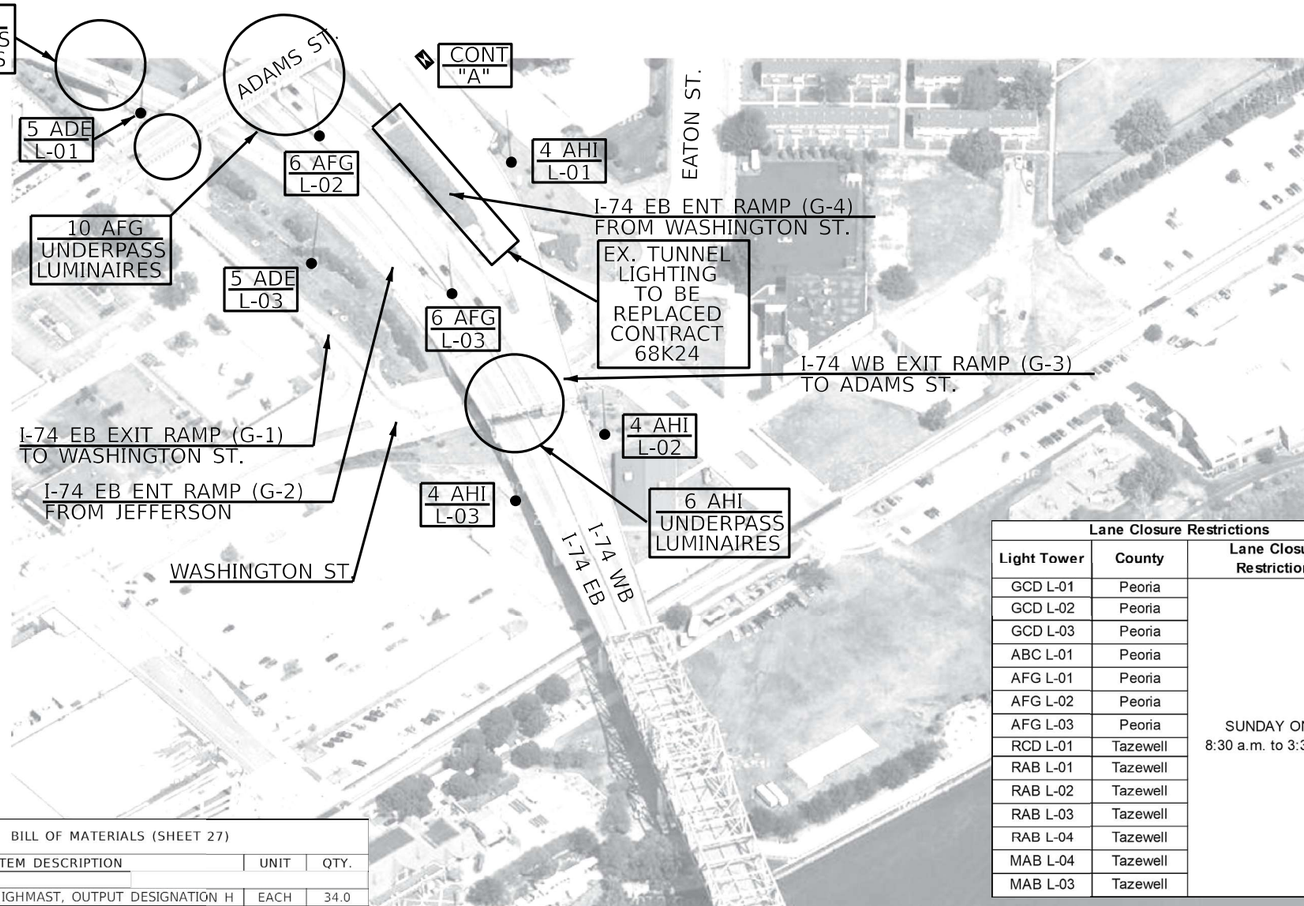
USER NAME = $USER$	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = $SCALE$	CHECKED -	REVISED -
PLOT DATE = $DATE$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHT TOWER LUMINAIRE REPLACEMENT
I-74 AT MONROE ST., MADISON AVE., JEFFERSON ST.

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	72(7-9)L	PEORIA	34	26
		CONTRACT NO. 68K24		
		ILLINOIS FED. AID PROJECT		



Lane Closure Restrictions		
Light Tower	County	Lane Closure Restrictions
GCD L-01	Peoria	SUNDAY ONLY 8:30 a.m. to 3:30 p.m.
GCD L-02	Peoria	
GCD L-03	Peoria	
ABC L-01	Peoria	
AFG L-01	Peoria	
AFG L-02	Peoria	
AFG L-03	Peoria	
RCD L-01	Tazewell	
RAB L-01	Tazewell	
RAB L-02	Tazewell	
RAB L-03	Tazewell	
RAB L-04	Tazewell	
MAB L-04	Tazewell	
MAB L-03	Tazewell	

BILL OF MATERIALS (SHEET 27)		
ITEM DESCRIPTION	UNIT	QTY.
LUMINAIRE, LED, HIGHMAST, OUTPUT DESIGNATION H	EACH	34.0
UNDERPASS LUMINAIRE (SPECIAL)	EACH	18.0

NOT TO SCALE

MODEL: $MODELNAME$
LAYOUT: $LAYOUT$

USER NAME = $USERN$	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = $SCALES$	CHECKED -	REVISED -
PLOT DATE = $DATE$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHT TOWER LUMINAIRE REPLACEMENT
I-74 AT ADAMS ST., WASHINGTON ST.

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	72(7-9)L	PEORIA	34	27
		CONTRACT NO. 68K24		
		ILLINOIS FED. AID PROJECT		

BILL OF MATERIALS (SHEET 28)		
ITEM DESCRIPTION	UNIT	QTY.
LUMINAIRE, LED, TUNNEL, LOCATION 1	EACH	157.0
LUMINAIRE, LED, TUNNEL, LOCATION 2	EACH	11.0

NOT TO SCALE

MODEL: $MODELNAME$
FILE NAME: $FILEL$

USER NAME = $USER$	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = $SCALE$	CHECKED -	REVISED -	
PLOT DATE = $DATE$	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

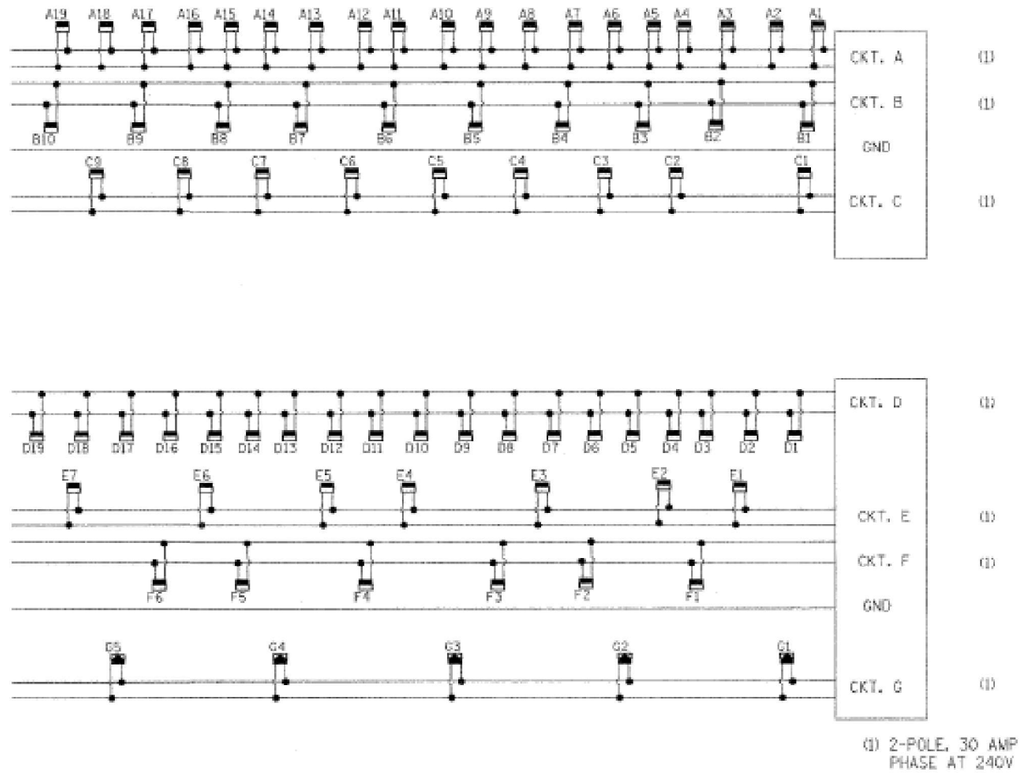
I-74 WB RAMP G-4
TUNNEL LUMINAIRE REPLACEMENT

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	72(7-9)L	PEORIA	34	28
		CONTRACT NO. 68K24		
	ILLINOIS	FED. AID PROJECT		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	72(9)-1R-1	PEORIA	1559	1456
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

68196



CIRCUIT SCHEDULE

CONDUIT RUN	CKT	ELECTRIC CABLE	LENGTH (M)
1	A	2-1/C #8	67
	B	2-1/C #8	67
	GND	1/C #8	68
	C	2-1/C #8	60
2	D	2-1/C #8	68
	E	2-1/C #8	60
	F	2-1/C #8	50
	GRD	1/C #8	68
	G	2-1/C #8	60

FOR INFORMATION ONLY

STREET LIGHTING - BILL OF MATERIALS (FOR INFORMATION ONLY)

PAY ITEM	UNIT	QUANTITY
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 8	METER	1240

* NEXT SHEET SHALL BE 27A.

LIGHTING SHEET 27 OF 59

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

G-4 TUNNEL WIRING DIAGRAM

DRAWN BY GHT

DATE: 11/03/03 CHECKED BY MKK

alfred benesch & company
CONSULTING ENGINEERS
225 NORTH MICHIGAN AVENUE, CHICAGO, ILLINOIS 60601

MODEL: $MODELNAME$
FILE NAME: $FILEL$

USER NAME = $USER$	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = $SCALE$	CHECKED -	REVISED -
PLOT DATE = $DATE$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

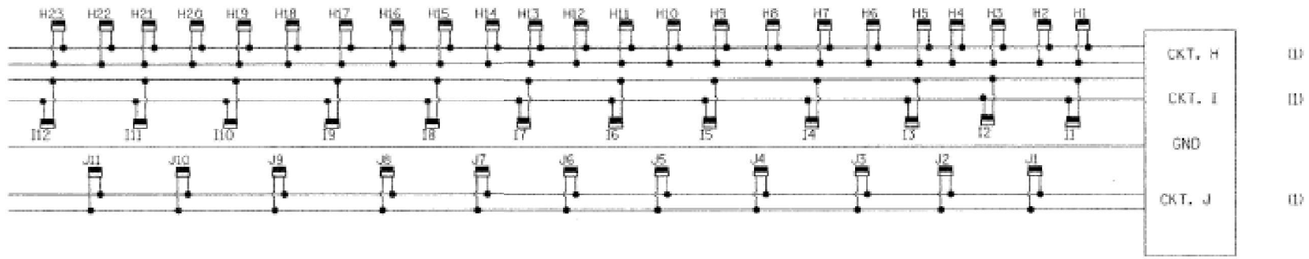
I-74 WB RAMP G-4
TUNNEL LUMINAIRE REPLACEMENT

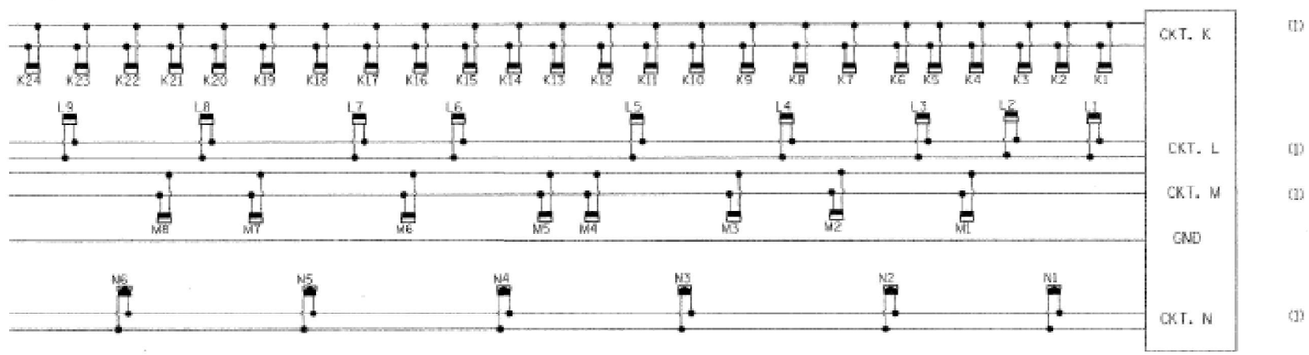
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	72(7-9)L	PEORIA	34	29
		CONTRACT NO. 68K24		
		ILLINOIS	FED. AID PROJECT	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	72(7-9)L	PEORIA	1559	1439
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

68196





(1) 2-POLE, 30 AMP BREAKERS
PHASE AT 240V

CIRCUIT SCHEDULE

CONDUIT RUN	CKT	ELECTRIC CABLE	LENGTH (M)
3	H	2-1/C #8	91
	I	2-1/C #8	91
	GND	1/C #8	91
	J	2-1/C #8	84
4	K	2-1/C #8	94
	L	2-1/C #8	81
	M	2-1/C #8	73
	GRD	1/C #8	94
	N	2-1/C #8	83

FOR INFORMATION ONLY

STREET LIGHTING - BILL OF MATERIALS (FOR INFORMATION ONLY)

PAY ITEM	UNIT	QUANTITY
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 8	METER	1619

LIGHTING SHEET 27A OF 59

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

G-4 TUNNEL WIRING DIAGRAM

DRAWN BY GHT

DATE: 11/03/03 CHECKED BY MKR

alfred benesch & company
CONSULTING ENGINEERS
205 NORTH MICHIGAN AVENUE, CHICAGO, ILLINOIS 60601

MODEL: $MODELNAME$
FILE NAME: $FILEL$

USER NAME = $USER$	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = $SCALE$	CHECKED -	REVISED -
PLOT DATE = $DATE$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-74 WB RAMP G-4
TUNNEL LUMINAIRE REPLACEMENT

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	72(7-9)L	PEORIA	34	30
		CONTRACT NO. 68K24		
		ILLINOIS	FED. AID PROJECT	

68196

FOR INFORMATION ONLY

DESCRIPTION	PANEL BOARD													
	PANEL BOARD # 1					PANEL BOARD # 2					PANEL BOARD # 3			
	CKT A	CKT B	CKT C	CKT H	CKT I	CKT D	CKT E	CKT J	CKT K	CKT L	CKT F	CKT G	CKT M	CKT N
TOTAL NO. OF DAY LUMINAIRES (400W)	19	10	9	23	12	19	7	11	24	9	6	0	8	0
TOTAL LOAD OF DAY LUMINAIRES (KILOWATTS)	8.7	4.6	4.1	10.5	5.5	8.7	3.2	5.0	10.9	4.1	2.7	0.0	3.6	0.0
TOTAL NO. OF NIGHT LUMINAIRES (100W)	0	0	0	0	0	0	0	0	0	0	0	5	0	6
TOTAL LOAD OF NIGHT LUMINAIRES (KILOWATTS)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.7
TOTAL NO. OF "ON" LUMINAIRES DURING LIGHT LEVEL # 1 (AMBIENT LIGHT > 3000FC)	19	10	9	23	12	19	7	11	24	9	6	0	8	0
TOTAL NO. OF "ON" LUMINAIRES DURING LIGHT LEVEL # 2 (AMBIENT LIGHT> 1000FC)	0	10	9	0	12	0	7	11	0	9	6	0	8	0
TOTAL NO. OF "ON" LUMINAIRES DURING LIGHT LEVEL # 3 (AMBIENT LIGHT > 100FC)	0	0	0	0	0	0	7	0	0	9	6	5	8	6
TOTAL NO. OF "ON" LUMINAIRES DURING LIGHT LEVEL # 4 (AMBIENT LIGHT < 100FC)	0	0	0	0	0	0	0	0	0	0	0	5	0	6

LIGHTING CRITERIA								
ILLUMINANCE			LUMINANCE				STV
AVERAGE ILLUMINANCE (FC)	UNIFORMITY (AVE. TO MIN)	UNIFORMITY (MAX. TO MIN)	AVERAGE LUMINANCE (CD/SQ.M)	UNIFORMITY (AVE. TO MIN)	UNIFORMITY (MAX. TO MIN)	MAXIMUM LV TO LAVG RATIO	
208	2.04	2.2	218	1.25	1.28	0.06	5.16
98	1.09	1.24	109	1.26	1.3	0.06	4.95
53	1.47	1.56	55	1.17	1.2	0.06	4.87
3.7	1.19	1.42	2.8	1.18	1.28	0.07	3.42

LIGHTING SHEET 28 OF 59

REVISIONS	
NAME	DATE

alfred benesch & company
CONSULTING ENGINEERS
205 NORTH MICHIGAN AVENUE, CHICAGO, ILLINOIS 60601

ILLINOIS DEPARTMENT OF TRANSPORTATION

G-4 TUNNEL LIGHTING
PANEL BOARD DETAIL

DATE: 11/03/03

DRAWN BY GHT
CHECKED BY MKR

MODEL: $MODELNAME$
FILE NAME: $FILEL$

USER NAME = $USER$	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = $SCALE$	CHECKED -	REVISED -
PLOT DATE = $DATE$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

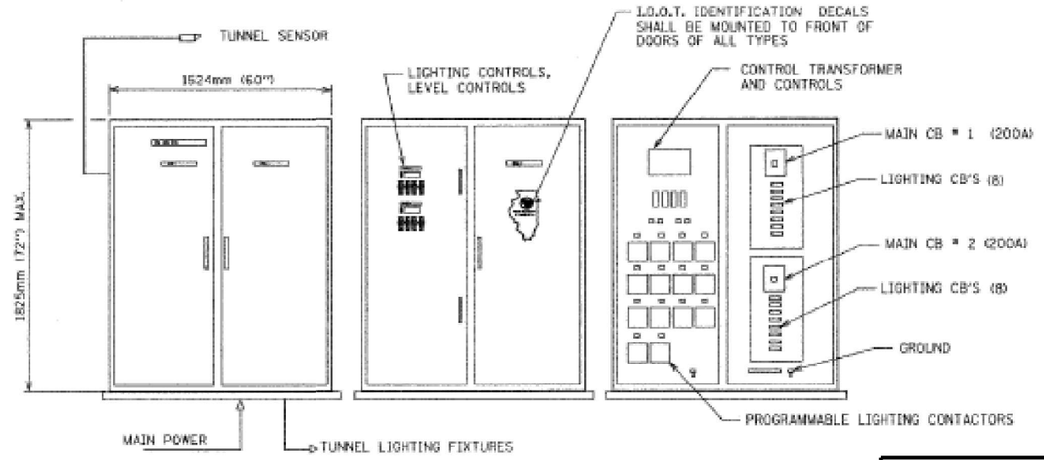
I-74 WB RAMP G-4
TUNNEL LUMINAIRE REPLACEMENT

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	72(7-9)L	PEORIA	34	31
		CONTRACT NO. 68K24		
		ILLINOIS	FED. AID PROJECT	

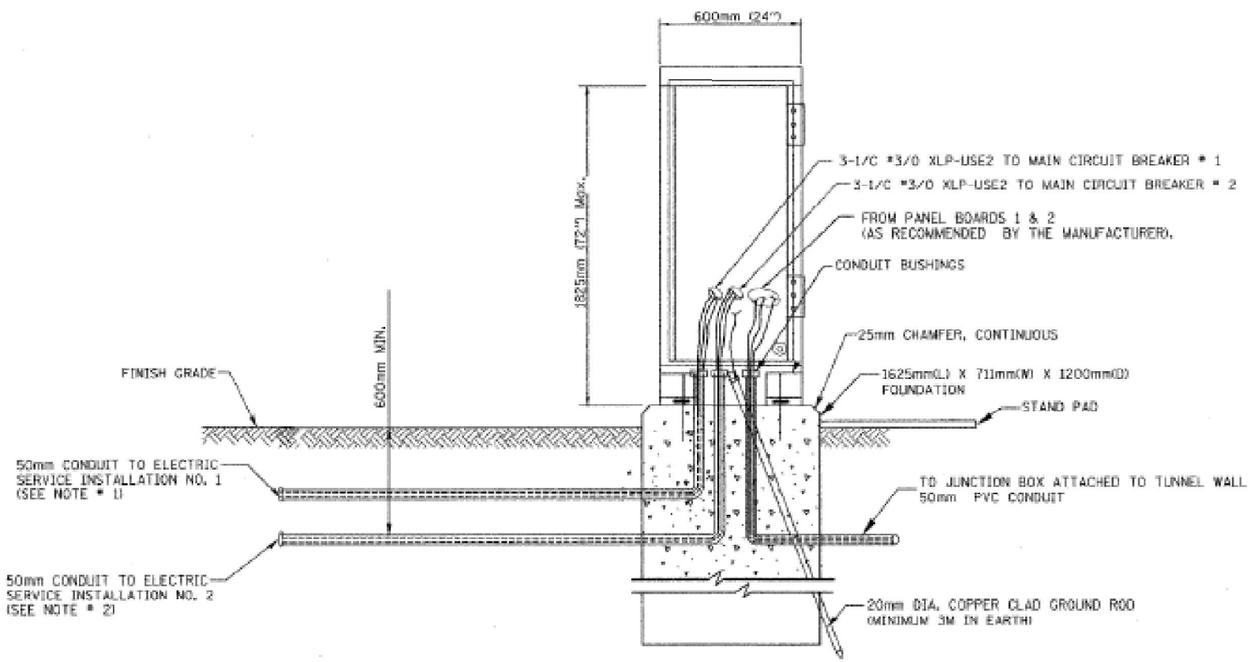
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	72(9)-DR-1	PEORIA	1559	1058
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

68196



FRONT VIEW

FOR INFORMATION ONLY



SIDE VIEW

TUNNEL LIGHTING CONTROLLER CABINET AND FOUNDATION DETAIL

(NOT TO SCALE)

NOTES:

1. CONTRACTOR SHALL INSTALL A STICKER INSIDE THE ELECTRIC SERVICE DISCONNECT CABINET # 1 THAT READS: ELECTRIC SERVICE DISCONNECT # 2 FOR THE TUNNEL LIGHTING CONTROLLER IS LOCATED ON SAME POLE.

2. CONTRACTOR SHALL INSTALL A STICKER INSIDE THE ELECTRIC SERVICE DISCONNECT CABINET # 2 THAT READS: ELECTRIC SERVICE DISCONNECT # 1 FOR THE TUNNEL LIGHTING CONTROLLER IS LOCATED ON SAME POLE.

3. CONTRACTOR SHALL INSTALL A STICKER INSIDE OF TUNNEL LIGHTING CONTROLLER THAT READS: ELECTRIC SERVICE DISCONNECT CABINET # 1 AND #2 ARE LOCATED ON THE SAME SERVICE POLE AT THE NORTH SIDE OF SPALDING AVE. WEST OF WASHINGTON STREET.

4. TUNNEL LIGHTING CONTROLLER SCHEMATIC AND WIRING DETAIL AS PROVIDED BY THE MANUFACTURER.

5. CONTROLLER TO HAVE SURGE SUPRESSION ACCORDING TO ARTICLE 1068.01.

LIGHTING SHEET 29 OF 59

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

TUNNEL CONTROLLER DETAILS

DATE: 11/03/03

DRAWN BY DJK

CHECKED BY MKR

alfred benesch & company
CONSULTING ENGINEERS
205 NORTH MICHIGAN AVENUE, CHICAGO, ILLINOIS 60601

MODEL: SMODELNAMES
FILE NAME: SFILES

USER NAME = SUSERS	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = SSCALES	CHECKED -	REVISED -
PLOT DATE = SDATES	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-74 WB RAMP G-4
TUNNEL LUMINAIRE REPLACEMENT

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	72(7-9)L	PEORIA	34	32
		CONTRACT NO. 68K24		
		ILLINOIS	FED. AID PROJECT	

Illinois Department of Transportation

Luminaire Performance Table

Project

Date	Contract Number	Section Number	County
06/24/25	68K24	72(7-9)L	Peoria

Marked Route Number	Municipality
I-74	Peoria

Roadway

Lane Width (see note 4)	Number and Direction of lanes	Median Width	Surface Classification	Q-Zero Value
12 ft	5 Lanes in Each Direction	28 ft	R3	0.07

Structure

Mounting Height	Arm Length	Set-Back (see note 1)	Number of Luminaries
100 ft	1 ft	N/A	8 - (see aiming diagram)

Luminaire

Description	Transverse Distribution	Lateral Distribution
High Mast Luminaire, Output Designation H	Type III	Medium

Total Light Loss Factor (LLF)	B-J-G Rating	Shields	Dimming Protocol
Refer to Notes 6 and 7	U=0	N/A	0-10V

Layout

Spacing	Configuration
425 ft	Median Mounted

Performance (see notes 5 and 6)

Average Illuminance, E_{AVE} (fc)	Uniformity Ratio, E_{AVE}/E_{MIN}
≥ 0.9	≤ 3:1

Average Luminance, L_{AVE} (cd/m²)	Uniformity Ratio, L_{AVE}/L_{MIN}	Uniformity Ratio, L_{MAX}/L_{MIN}	Veiling Luminance Ratio, L_V/L_{AVE}
≥ 0.6	≤ 3.5:1	≤ 6:1	≤ 0.3:1

Light Tresspass (see notes 5 and 7)

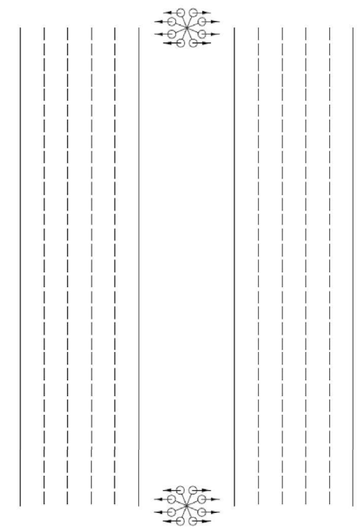
Distance to ROW (behind pole)	Max. Horizontal Illuminance at ROW, E_H	Max. Vertical Illuminance at ROW, E_V
N/A	N/A	N/A

Notes

1. Set-Back is from Edge of Pavement (white line).
2. Lighting calculations shall be performed with all luminaires oriented toward and perpendicular to the roadway.
3. Performance requirements shall be the minimum acceptable standards of photometric performance for the luminaire, based on the given conditions listed above.
4. Lane width is the width of each **individual** lane, not to be confused with total roadway width.
5. Compliance with performance criteria shall be held to one significant digit.
6. Photometric calculations for roadways shall be performed with a total light loss factor of 0.7
7. Light trespass calculations shall be performed with a total light loss factor of 1.0 and with horizontal calculations performed at grade and vertical calculations performed with calculation points located three feet above grade.
8. Luminaire performance table is intended to define the luminaire and does not necessarily match any specific roadway geometry, mounting height, setback, or arm length.

Printed 06/25/25

BDE 5630 (Rev. 06/06/24)



LUMINAIRE AIMING DIAGRAM

Illinois Department of Transportation

Luminaire Performance Table

Project

Date	Contract Number	Section Number	County
07/14/25	68K24	72(7-9)L	Peoria

Marked Route Number	Municipality
I-74	PEORIA

Roadway

Lane Width (see note 4)	Number and Direction of lanes	Median Width	Surface Classification	Q-Zero Value
12	3 LANES IN 1 DIRECTION	N/A	R3	0.07

Structure

Mounting Height	Arm Length	Set-Back (see note 1)	Number of Luminaries
45 FT	6 FT	12 FT	N/A

Luminaire

Description	Transverse Distribution	Lateral Distribution
ROADWAY, LED, OUTPUT G	TYPE III	Medium

Total Light Loss Factor (LLF)	B-U-G Rating	Shields	Dimming Protocol
Refer to Notes 6 and 7	U=0	N/A	0-10V

Layout

Spacing	Configuration
140 FT	Single Sided

Performance (see notes 5 and 6)

Average Illuminance, E_{AVE} (fc)	Uniformity Ratio, E_{AVE}/E_{MIN}
≥ 0.9	≤ 3:1

Average Luminance, L_{AVE} (cd/m²)	Uniformity Ratio, L_{AVE}/L_{MIN}	Uniformity Ratio, L_{MAX}/L_{MIN}	Veiling Luminance Ratio, L_V/L_{AVE}
≥ 0.6	≤ 3.5:1	≤ 6:1	≤ 0.3:1

Light Tresspass (see notes 5 and 7)

Distance to ROW (behind pole)	Max. Horizontal Illuminance at ROW, E_H	Max. Vertical Illuminance at ROW, E_V
N/A	N/A	N/A

Notes

1. Set-Back is from Edge of Pavement (white line).
2. Lighting calculations shall be performed with all luminaires oriented toward and perpendicular to the roadway.
3. Performance requirements shall be the minimum acceptable standards of photometric performance for the luminaire, based on the given conditions listed above.
4. Lane width is the width of each **individual** lane, not to be confused with total roadway width.
5. Compliance with performance criteria shall be held to one significant digit.
6. Photometric calculations for roadways shall be performed with a total light loss factor of 0.7
7. Light trespass calculations shall be performed with a total light loss factor of 1.0 and with horizontal calculations performed at grade and vertical calculations performed with calculation points located three feet above grade.
8. Luminaire performance table is intended to define the luminaire and does not necessarily match any specific roadway geometry, mounting height, setback, or arm length.

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Luminaire Performance Table

Project

Date	Contract Number	Section Number	County
04/21/25	68K24	72(7-9)L	Peoria

Marked Route Number	Municipality
I-74 - Ramp G4 Tunnel - Daytime Lighting	Peoria

Roadway

Lane Width (see note 4)	Number and Direction of lanes	Median Width	Surface Classification	Q-Zero Value
16	1 lane in one direction	NA	R3	0.07

Structure

Mounting Height	Arm Length	Set-Back (see note 1)	Number of Luminaries
15.25	NA	5	NA

Luminaire

Description	Transverse Distribution	Lateral Distribution
Tunnel Luminaire 2 - Lumen Output ≤ 22,000	Type III	Short

Total Light Loss Factor (LLF)	B-U-G Rating	Shields	Dimming Protocol
0.65	NA	NA	0-10V

Layout

Spacing	Configuration
3ft	Opposite

Performance (see notes 5 and 6)

Average Illuminance, E_{AVE} (fc)	Uniformity Ratio, E_{AVE}/E_{MIN}
N/A	N/A

Average Luminance, L_{AVE} (cd/m²)	Uniformity Ratio, L_{AVE}/L_{MIN}	Uniformity Ratio, L_{MAX}/L_{MIN}	Veiling Luminance Ratio, L_V/L_{AVE}
≥ 100	≤ 2.0	≤ 3.5	≤ 0.2

Light Tresspass (see notes 5 and 7)

Distance to ROW (behind pole)	Max. Horizontal Illuminance at ROW, E_H	Max. Vertical Illuminance at ROW, E_V
NA	N/A	N/A

Notes

1. Set-Back is from Edge of Pavement (white line).
2. Lighting calculations shall be performed with all luminaires oriented toward and perpendicular to the roadway.
3. Performance requirements shall be the minimum acceptable standards of photometric performance for the luminaire, based on the given conditions listed above.
4. Lane width is the width of each **individual** lane, not to be confused with total roadway width.
5. Compliance with performance criteria shall be held to one significant digit.
6. Photometric calculations for roadways shall be performed with a total light loss factor of 0.7
7. Light trespass calculations shall be performed with a total light loss factor of 1.0 and with horizontal calculations performed at grade and vertical calculations performed with calculation points located three feet above grade.
8. Luminaire performance table is intended to define the luminaire and does not necessarily match any specific roadway geometry, mounting height, setback, or arm length.

Delete Note 6. Tunnel Lighting Calculations Parameters: Approximate tunnel height=16ft; tunnel width=28.5ft; tunnel length= 290ft

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Luminaire Performance Table

Project

Date	Contract Number	Section Number	County
04/21/25	68K24	72(7-9)L	Peoria

Marked Route Number	Municipality
I-74 - Ramp G4 Tunnel - Nighttime Lighting	Peoria

Roadway

Lane Width (see note 4)	Number and Direction of lanes	Median Width	Surface Classification	Q-Zero Value
16	1 lane in one direction	NA	R3	0.07

Structure

Mounting Height	Arm Length	Set-Back (see note 1)	Number of Luminaries
15.25	NA	5	NA

Luminaire

Description	Transverse Distribution	Lateral Distribution
Tunnel Luminaire 4 - Lumen Output ≤ 7,500	Type III	Short

Total Light Loss Factor (LLF)	B-U-G Rating	Shields	Dimming Protocol
0.65	NA	NA	0-10V

Layout

Spacing	Configuration
30ft	Opposite

Performance (see notes 5 and 6)

Average Illuminance, E_{AVE} (fc)	Uniformity Ratio, E_{AVE}/E_{MIN}
N/A	N/A

Average Luminance, L_{AVE} (cd/m²)	Uniformity Ratio, L_{AVE}/L_{MIN}	Uniformity Ratio, L_{MAX}/L_{MIN}	Veiling Luminance Ratio, L_V/L_{AVE}
≥ 2.5	≤ 2.0	≤ 3.5	≤ 0.2

Light Tresspass (see notes 5 and 7)

Distance to ROW (behind pole)	Max. Horizontal Illuminance at ROW, E_H	Max. Vertical Illuminance at ROW, E_V
NA	N/A	N/A

Notes

1. Set-Back is from Edge of Pavement (white line).
2. Lighting calculations shall be performed with all luminaires oriented toward and perpendicular to the roadway.
3. Performance requirements shall be the minimum acceptable standards of photometric performance for the luminaire, based on the given conditions listed above.
4. Lane width is the width of each **individual** lane, not to be confused with total roadway width.
5. Compliance with performance criteria shall be held to one significant digit.
6. Photometric calculations for roadways shall be performed with a total light loss factor of 0.7
7. Light trespass calculations shall be performed with a total light loss factor of 1.0 and with horizontal calculations performed at grade and vertical calculations performed with calculation points located three feet above grade.
8. Luminaire performance table is intended to define the luminaire and does not necessarily match any specific roadway geometry, mounting height, setback, or arm length.

Delete Note 6. Tunnel Lighting Calculations Parameters: Approximate tunnel height=16ft; tunnel width=28.5ft; tunnel length= 290ft

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Luminaire Performance Table

Project

Date	Contract Number	Section Number	County
07/14/25	68K24	72(7-9)L	Peoria

Marked Route Number	Municipality
I-74	Peoria

Roadway

Lane Width (see note 4)	Number and Direction of lanes	Median Width	Surface Classification	Q-Zero Value
12 FT	2 LANES IN 1 DIRECTION	N/A	R3	0.07

Structure

Mounting Height	Arm Length	Set-Back (see note 1)	Number of Luminaries
22 FT	N/A	0 FT	N/A

Luminaire

Description	Transverse Distribution	Lateral Distribution
UNDERPASS, LED, OUTPUT D	TYPE III	Medium

Total Light Loss Factor (LLF)	B-U-G Rating	Shields	Dimming Protocol
Refer to Notes 6 and 7	U=0	N/A	0-10V

Layout

Spacing	Configuration
70 FT	Single Sided

Performance (see notes 5 and 6)

Average Illuminance, E_{AVE} (fc)	Uniformity Ratio, E_{AVE}/E_{MIN}
N/A	N/A

Average Luminance, L_{AVE} (cd/m²)	Uniformity Ratio, L_{AVE}/L_{MIN}	Uniformity Ratio, L_{MAX}/L_{MIN}	Veiling Luminance Ratio, L_V/L_{AVE}
≥ 0.8	≤ 3.5:1	≤ 6:1	≤ 0.3:1

Light Tresspass (see notes 5 and 7)

Distance to ROW (behind pole)	Max. Horizontal Illuminance at ROW, E_H	Max. Vertical Illuminance at ROW, E_V
N/A	N/A	N/A

Notes

1. Set-Back is from Edge of Pavement (white line).
2. Lighting calculations shall be performed with all luminaires oriented toward and perpendicular to the roadway.
3. Performance requirements shall be the minimum acceptable standards of photometric performance for the luminaire, based on the given conditions listed above.
4. Lane width is the width of each **individual** lane, not to be confused with total roadway width.
5. Compliance with performance criteria shall be held to one significant digit.
6. Photometric calculations for roadways shall be performed with a total light loss factor of 0.7
7. Light trespass calculations shall be performed with a total light loss factor of 1.0 and with horizontal calculations performed at grade and vertical calculations performed with calculation points located three feet above grade.
8. Luminaire performance table is intended to define the luminaire and does not necessarily match any specific roadway geometry, mounting height, setback, or arm length.

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