(FAI 57, FAP 853, FAP 873, FAU 9493 ** D-9 TRAFFIC SIGNAL FY 06-1

D-99-020-06

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

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STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

FOR INDEX OF SHEETS, SEE SHEET NO. 2

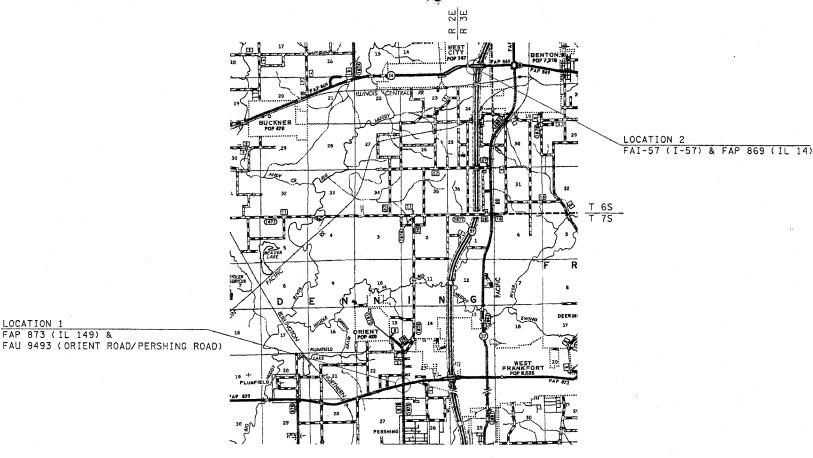
PROPOSED HIGHWAY PLANS

LOCATION	ADT	% TRUCKS		
AI-57 (I-57) NB ON RAMP	2750(2004)	5%		
AI-57 (I-57) NB OFF RAMP	1550(2004)	6%		
A 869 (IL 14)	14800(2003)	1%		
AP 873 (IL 149)	7200(2003)	11%		
RIENT ROAD	1150(2004)	0%		
ERSHING ROAD	1650(2004)	0%		

SIGNAL MODIFICATION VARIOUS ROUTES (FAI-57 (I-57) & FAP 869 (IL 14)/

FAP 873 (IL 149) & FAU 9493 (ORIENT ROAD/PERSHING ROAD) SECTION D-9 TRAFFIC SIGNAL FY-06-1 FRANKLIN CO.

C-99-016-06



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.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123

DENNING & BROWNING TOWNSHIPS

CONTRACT NO. 98965

SECTION: D-9 TRAFFIC SIGNAL FY 06-1

COUNTY: FRANKLIN

FAP 873 (IL 149) &

ROUTE: FAI-57 (I-57), FAP 869 (IL 14), FAP 873 (IL 149), FAU 9493 (ORIENT RD/PERSHING RD)

THE FURNISHING AND INSTALLATION OF THE 1 1/2" CONDUIT WITH ITS TRENCHING AND BACKFILL FROM THE LOOP SAWCUT TO THE SPLICE POINT SHALL BE INCLUDED IN THE LOOP INSTALLATION UNLESS SHOWN OTHERWISE ON THE PLANS.

THE INDUCTION LOOP WIRE AND LEAD-IN WIRE SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION

SHIELDED CABLE TO LOOP LEADS SHALL BE GROUNDED AT THE CONTROLLER TERMINAL ONLY.

ALL DETECTOR LOOP CORNERS SHALL BE CORE DRILLED 2 IN. MINIMUM DIAMETER.

WHILE SIGNAL HEADS ARE MOUNTED IN PLACE, BUT NOT YET IN OPERATION, THEY SHALL BE SECURELY COVERED IN WHITE PLASTIC.

EXISTING SURFACE DISTURBED DURING EXCAVATION FOR FOUNDATIONS AND PUSH PITS SHALL BE RESTORED TO THE LIMITS AND CONDITION SPECIFIED BY THE ENGINEER OR AS SHOWN ON THE PLANS. UNLESS NOTED OTHERWISE ON THE PLANS THE REMOVAL AND RESTORATION SHALL BE INCLUDED IN THE CONTRACT.

CABLE QUANTITIES ARE MEASURED IN PLAN VIEW.

THE LOCATION OF THE DETECTOR LOOPS AND TRAFFIC SIGNAL FOUNDATIONS, AS SHOWN ON THE PLANS, MAY BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER OF TRAFFIC OPERATIONS.

EVERY EFFORT SHOULD BE MADE TO MAINTAIN OPERATION OF THE EXISTING DETECTOR LOOPS TO THE GREATEST EXTENT POSSIBLE. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF TRAFFIC OPERATIONS 72 HOURS PRIOR TO THE SHUT-DOWN OR CUTTING OF EXISTING DETECTOR LOOPS.

RELOCATED TRAFFIC SIGNAL POSTS WILL BE LOCATED NO CLOSER THAN 4 FT. FROM THE FACE OF CURB TO CENTER OF POST.

<u>STANDARDS</u>

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* FAI 57, FAP 869, FAP 873, FAU 9493 ** D-9 TRAFFIC SIGNAL FY 06-1

000001-04	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
701001-01	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 4.5 m(15') AWAY
701006-02	OFF-ROAD OPERATIONS, 2L, 2W, 4.5 m (15') TO 600 mm (24") FROM PAVEMENT EDGE
701101-01	OFF-ROAD OPERATIONS, MULTILANE, 4.5 m (15') TO 600 mm (24") FROM PAVEMENT EDGE
701106-01	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 4.5 m (15') AWAY
701701-04	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701001-06	TRAFFIC CONTROL DEVICES
805001	ELECTRICAL SERVICE INSTALLATION DETAILS

STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES

873001 TRAFFIC SIGNAL GROUNDING 878001-04 CONCRETE FOUNDATION DETAILS 880006 TRAFFIC SIGNAL MOUNTING DETAILS 886001 DETECTOR LOOP INSTALLATIONS

CONCRETE HANDHOLES

814001

857001

INDEX OF SHEETS

- 1 COVER SHEET
- 2 GENERAL NOTES, INDEX OF SHEETS, STANDARDS
- 3 SUMMARY OF QUANTITIES
- 4 FLASHING BEACON PLANS ILLINOIS 149 AND ORIENT ROAD/PERSHING ROAD
- 5 TRAFFIC SIGNAL PLAN NB I-57 RAMPS AND ILLINOIS 14
- 6 WIRING DIAGRAM NB I-57 RAMPS AND ILLINOIS 14
- 7 DETAILS: SIDE VIEW SIGN; SERVICE INSTALLATION TYPE A (SPECIAL); DETAIL OF DETECTOR LOOPS

Prepared By:
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DISTRICT OWNSTRUCTION SUGNEER
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DISTRICT MATERIALS DESIRED

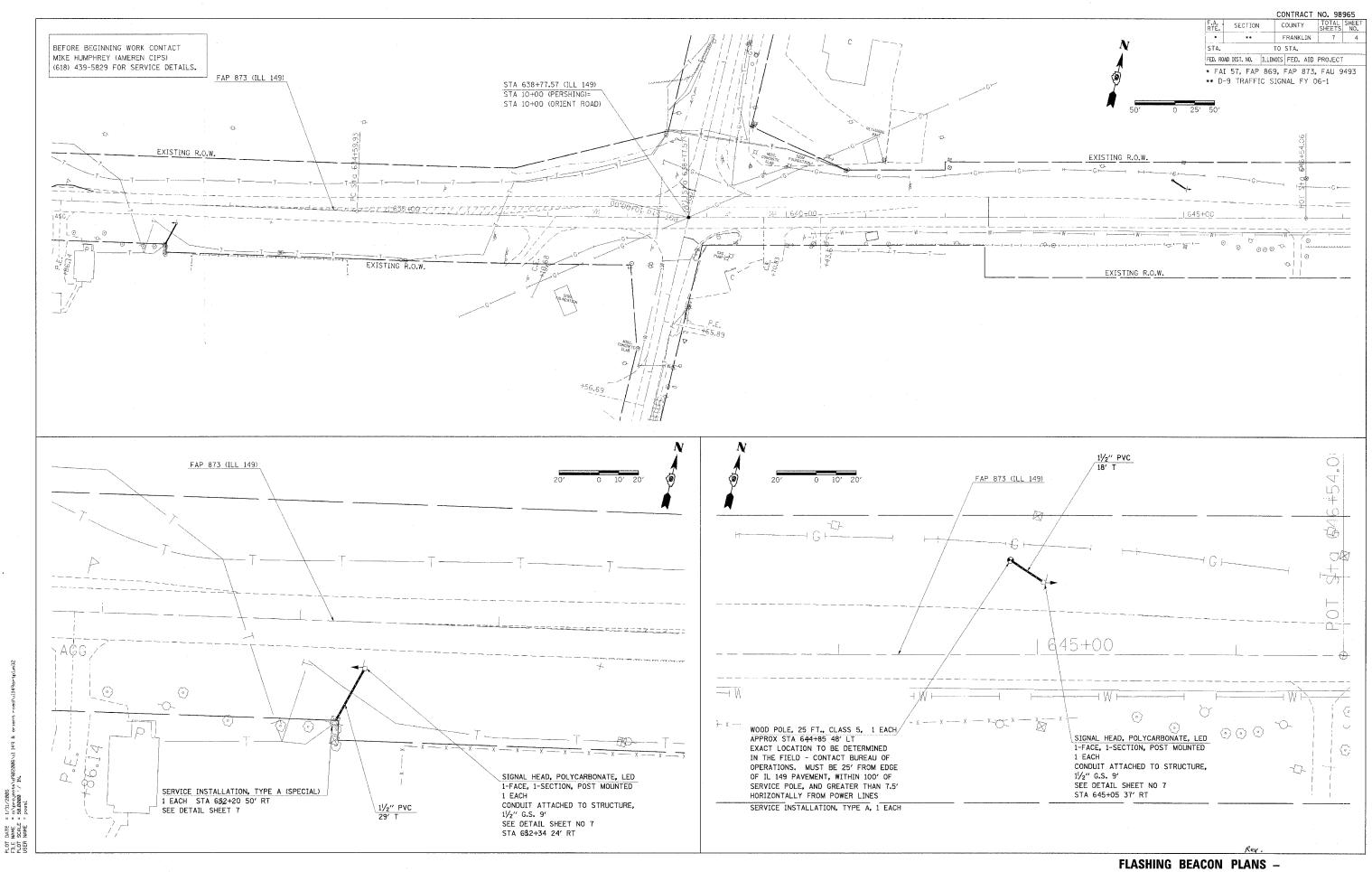
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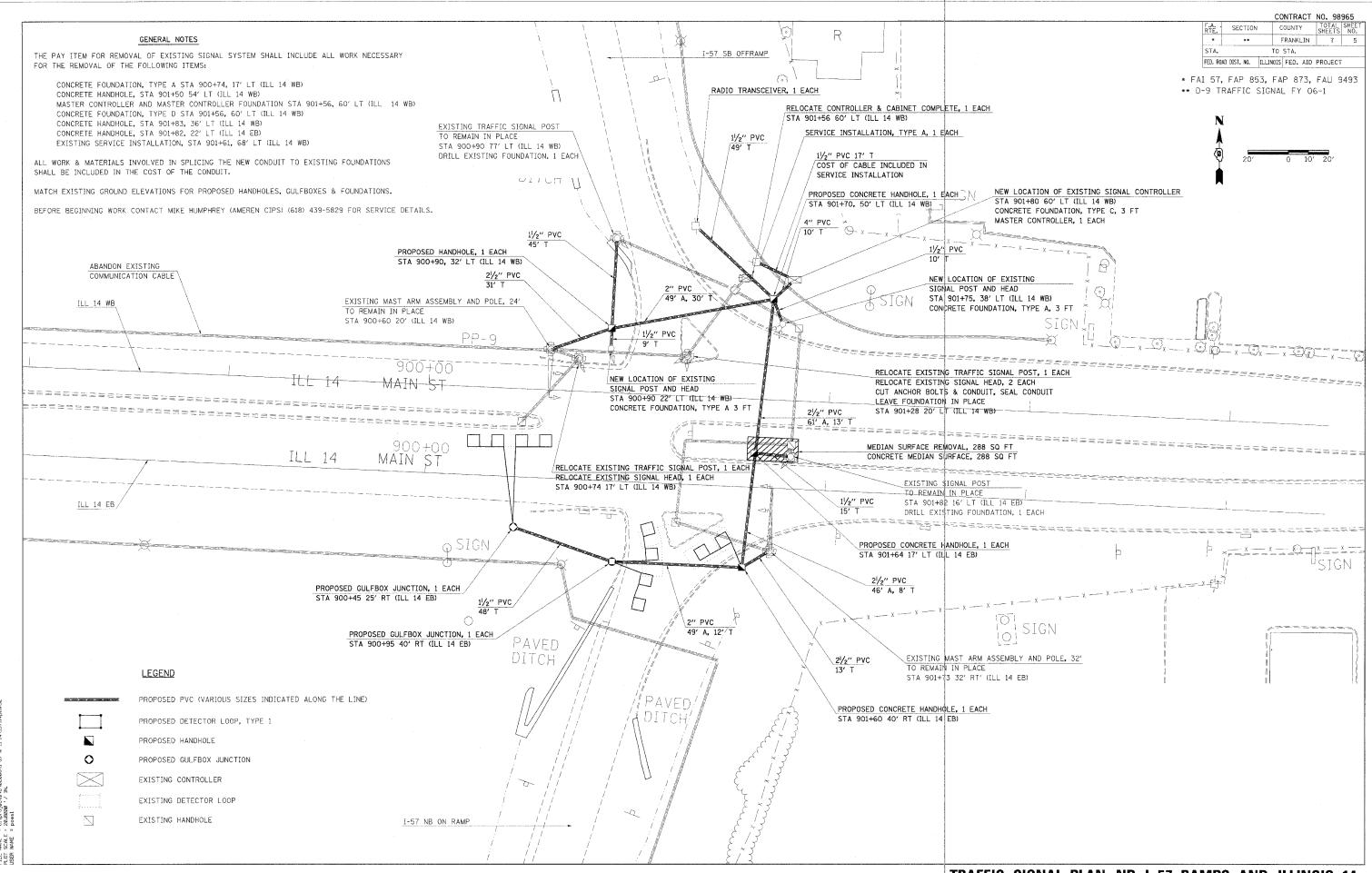
(* FAI 57, FAP 869, FAP 873, FAU 9493)
** D-9 TRAFFIC SIGNAL FY 06-1

SUMMARY OF QUANTITIES

				VARIOUS ROUTES		
		CONSTRUCTIO	N TYPE CODE	Y031-1F Y031-1F 100 % STATE		
CODE NUMBER	ITEM	UNIT	TOTAL QUANTITIES	LOCATION 1 ILLINOIS 149 & ORIENT RD / PERSHING ROAD	NORTHBOUND I-57 RAMPS AND ILLINOIS	
4400 38 0 0	MEDIAN SURFACE REMOVAL	SQ FT	288		288	
60618300	CONCRETE MEDIAN SURFACE 4"	SQ FT	288		288	
67100100	MOBILIZATION	L SUM	1	0.5	0.5	
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1		1	
80300100	LOCATING UNDERGROUND CABLE	FOOT	40		40	
80400105	ELECTRIC SERVICE INSTALLATION, SPECIAL	EACH	1	1		
80500100	SERVICE INSTALLATION, TYPE A	EACH	2	1	1	
80801500	WOOD POLE, 25 FT., CLASS 5	FOOT	1	1		
81012500	CONDUIT IN TRENCH, 1 1/2" DIA., PVC	FOOT	240	47	193	
81012600	CONDUIT IN TRENCH, 2" DIA., PVC	FOOT	42		42	
81012700	CONDUIT IN TRENCH, 2 1/2" DIA., PVC	FOOT	65		65	
81013000	CONDUIT IN TRENCH, 4" DIA., PVC	FOOT	10		10	
81021550	CONDUIT, AUGERED, 2" DIA., PVC	FOOT	98		98	
81021560	CONDUIT, AUGERED, 2 1/2" DIA., PVC	FOOT	107		107	
81100500	CONDUIT ATTACHED TO STRUCTURE, 1 1/2" DIA., GALVANIZED STEEL	FOOT	18	18		
81400100	HANDHOLE	EACH	3		3	
81500200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	357	47	310	
86000100	MASTER CONTROLLER	EACH	1		1	
86600010	GULFBOX JUNCTION	EACH	2		2	
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2/C	FOOT	85	85		
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5/C	FOOT	708		708	
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7/C	FOOT	274		274	
87301305	ELECTRIC CABLE IN CONDUIT, LEAD IN, NO. 14 1 PAIR	FOOT	710		710	
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	6		6	
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	3		3	
87900100	DRILL EXISTING FOUNDATION	EACH	2		2	
88500100	INDUCTIVE LOOP DETECTOR	EACH	3		3	
88600100	DETECTOR LOOP, TYPE 1	FOOT	387		387	
89500100	RELOCATE EXISTING SIGNAL HEAD	EACH	3		3	
89501150	RELOCATE EXISTING TRAFFIC SIGNAL POST	EACH	2	7	2	
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1		1	
X0300737	RADIO TRANSCEIVER	EACH	1		1	
X8801100	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 1-SECTION, POST MOUNTED	EACH	2	2		
XX004683	RELOCATE EXISTING TRAFFIC SIGNAL CONTROLLER AND CABINET COMPLETE	EACH	1		1	

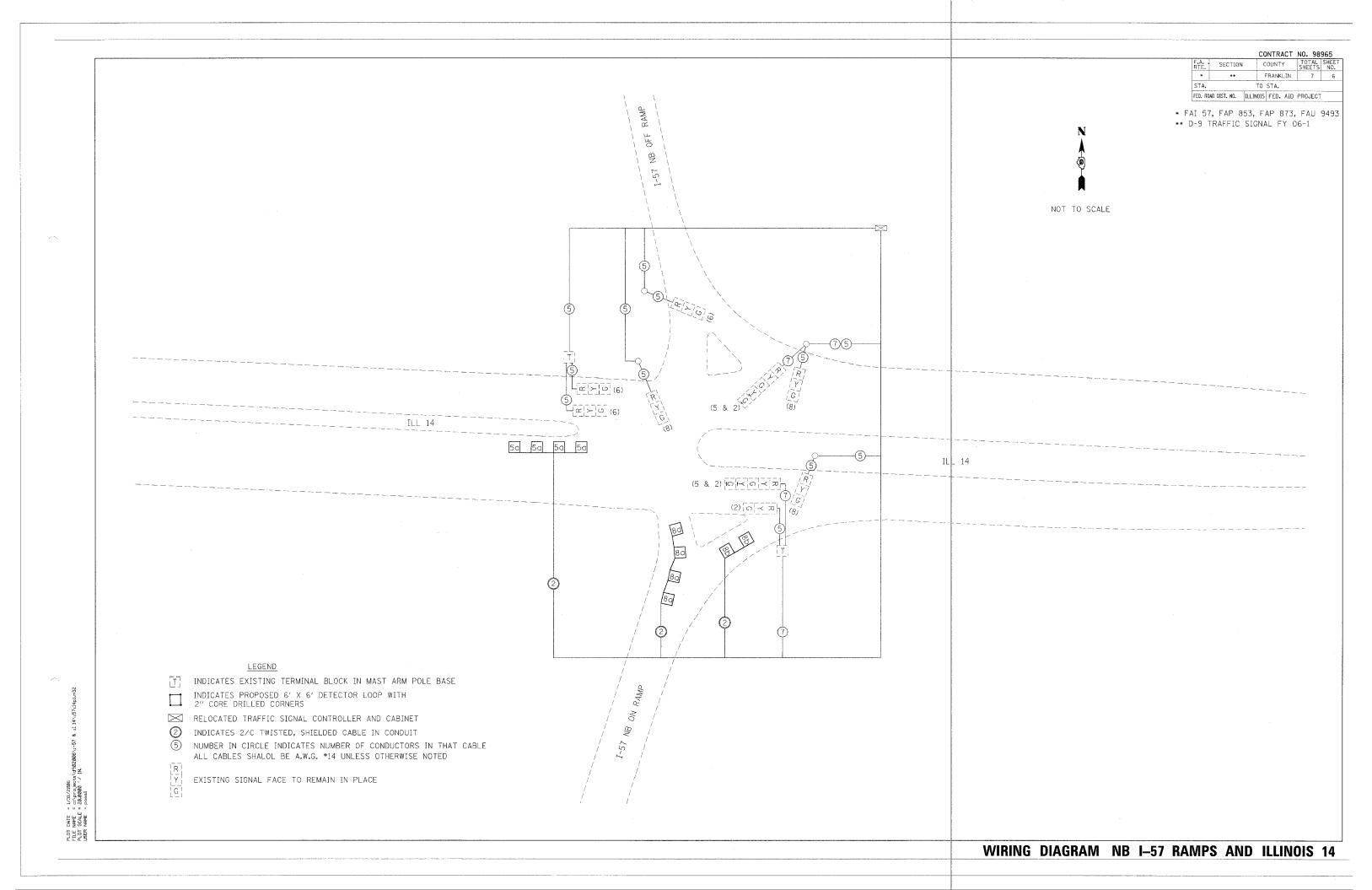


ILLINOIS 149 AND ORIENT RD/PERSHING RD

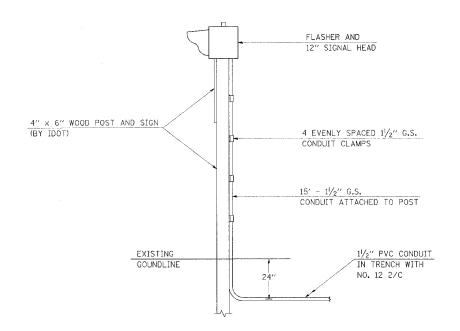


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TRAFFIC SIGNAL PLAN NB I-57 RAMPS AND ILLINOIS 14



SIDE VIEW SIGN



DETAIL OF DETECTOR LOOPS

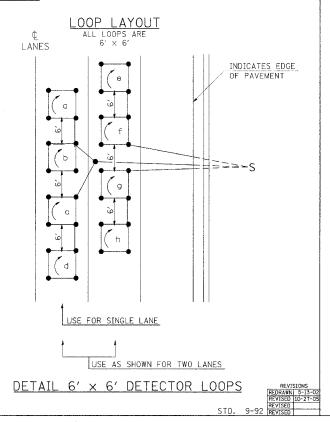
(APPLIES TO $6' \times 6'$ LOOPS ONLY)

- 1. THE DETECTOR LOOPS SHALL BE TYPE I. EACH DETECTOR LOOP SHALL HAVE 3 TURNS OF LOOP WIRE AND BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 886 OF THE STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS.
- 2. BEGINNING LEAD WIRES SHALL BE CONNECTED TO THE BLACK LEAD AND THE ENDING LEAD WIRES SHALL BE CONNECTED TO THE WHITE LEAD OF THE TWIN TWISTED FEED CABLES AT THE SPLICE POINT.
- 3. WHERE THE LOOPS ARE INSTALLED PRIOR TO RESURFACING, THE LOOP CORNERS SHALL BE DIAGONALLY CUT.

LOOP LEGEND

CLOCKWISE ROTATION FOR LOOP WIRES

- INDICATES SPLICE POINT FOR DETECTOR LOOP LEAD
- INDICATES 2" CORE-DRILL



SERVICE INSTALLATION, TYPE A (SPECIAL)

		COL	NTRA	ACT	NO.	98	965
F.A. RTE.	SECTION	CC	TNUC	Y	TOT SHE	AL ETS	SHEET NO.
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