

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
**PLANS FOR PROPOSED
FEDERAL AID HIGHWAY**
FAP 330 (IL 17)
SECTION (46-3) TS-1 & (1) TS-1
KANKAKEE COUNTY
C-93-051-04

INDEX OF SHEETS

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STANDARDS

- 000001-04 Standard Symbols, Abbreviations, and Patterns
701101 Off-Road Operations, Multilane Less Than 4.5 m (15') Away for Speeds ≥ 45 MPH
701501-02 Urban Lane Closure, 2L, 2W, Undivided
701606-03 Urban Lane Closure, Multilane 2W with Mountable Median
701701-03 Urban Lane Closure, Multilane Intersection
701801-03 Lane Closure, Multilane 1W or 2W Crosswalk or Sidewalk Closure
702001-04 Traffic Control Devices
720001 Sign Panel Mounting Details
720016-01 Mast Arm Mounted Street Name Signs
805001 Electrical Service Installation Details
814001 Concrete Handholes
857001 Standard Phase Designation Diagrams and Phase Sequences
877011-01 Steel Combination Mast Arm Assembly and Pole
878001-02 Concrete Foundation Details
880006 Traffic Signal Mounting Details
886001 Detector Loop Installations
886006 Typical Layout for Detection Loops

TRAFFIC DATA

ADT= 20,700

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

JULIE 1-800-892-0123

DISTRICT 3 NO. (815) 434-6131

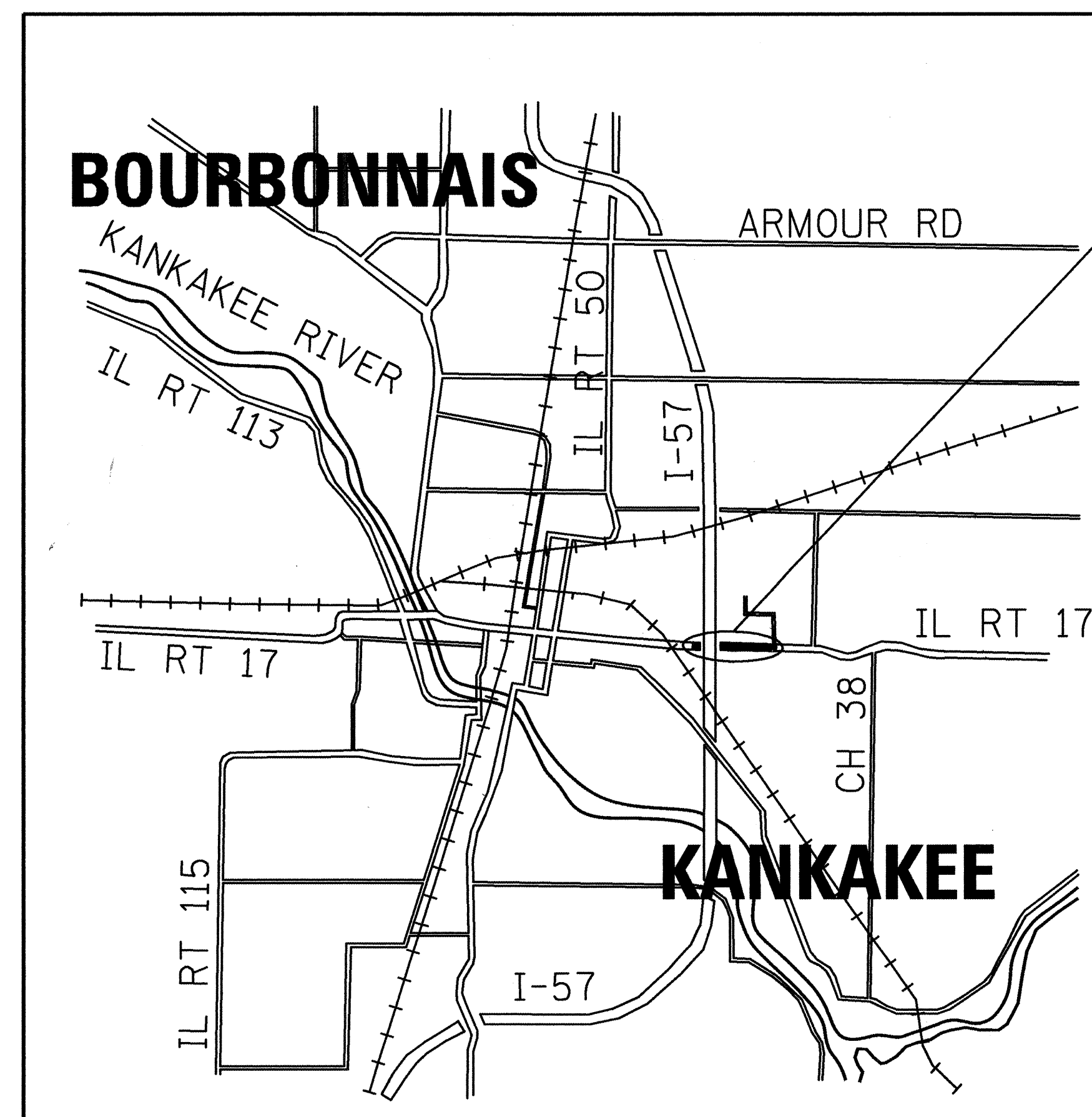
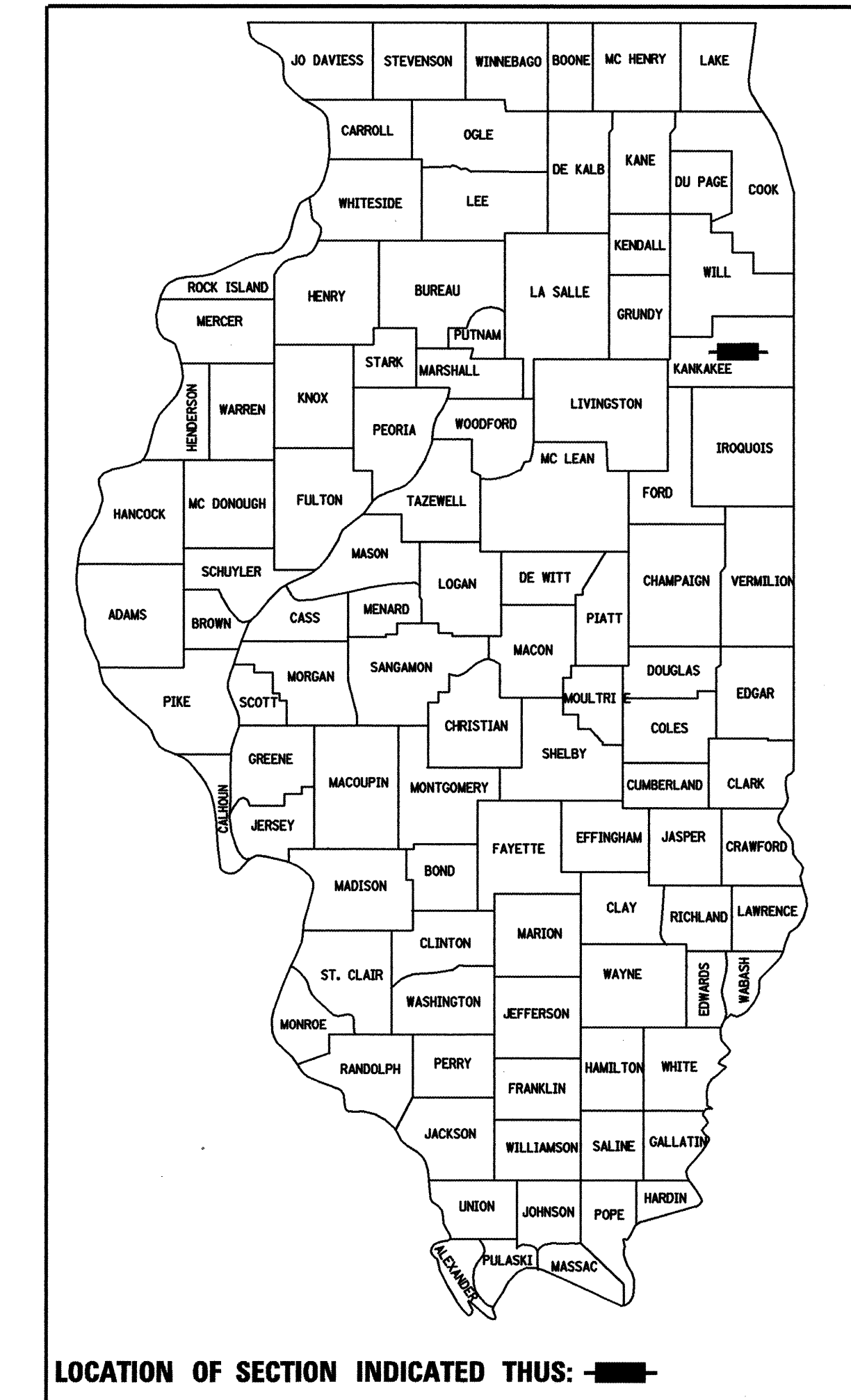
PROJECT ENGINEER: TOM HUFNAGEL
UNIT CHIEF: DAN DEVINE
TOWNSHIP: KANKAKEE

CONTRACT NO. 66447

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	KANKAKEE	13	1

* FAP ROUTE 330 (IL 17)
** SEC. NO. (46-3) TS-1 & (1) TS-1

D93-048-04



PROJECT
LOCATION



Michael V. Fitzsimmons
signature
PROFESSIONAL DESIGN FIRM
LICENSE NO. 184-001717

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED Feb 4 2004
PASSED March 19 2004
APPROVED March 19 2004
DISTRICT ENGINEER
ENGINEER OF DESIGN AND ENVIRONMENT
DIRECTOR, DIVISION OF HIGHWAYS

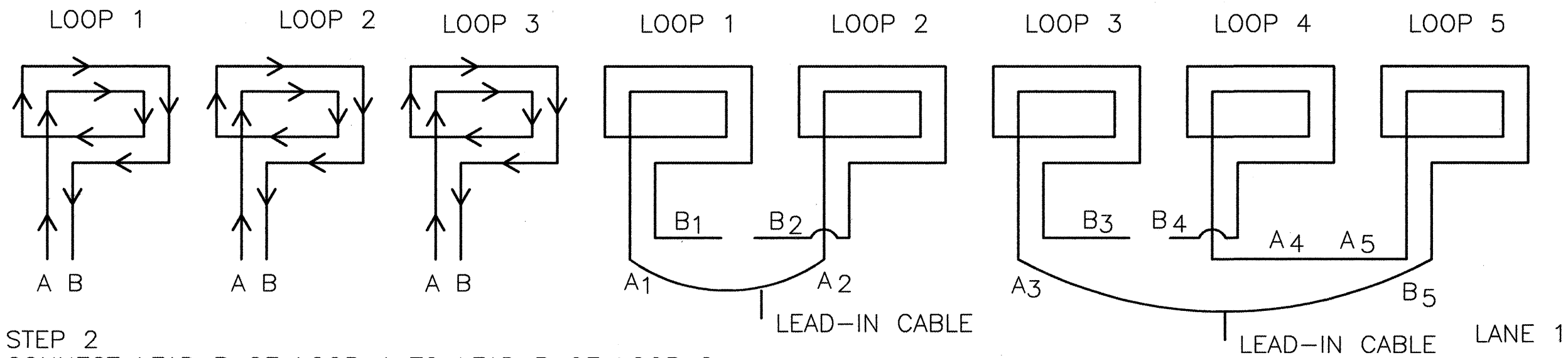
GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING CONSTRUCTION (J.U.L.I.E. 800/892-0123). CONTACT IDOT FOR HIGHWAY LIGHTING LOCATE.
2. ALL TRAFFIC SIGNAL HEADS SHALL BE 12", UNLESS OTHERWISE NOTED.
3. A 1/4" DIAMETER CONTINUOUS NYLON ROPE SHALL BE FURNISHED AND LEFT IN PLACE IN ALL CONDUITS BETWEEN HANDHOLES AND FOUNDATIONS OR CONTROLLER AS INCIDENTAL TO THE RESPECTIVE CONDUIT PAY ITEM.
4. THE PROPOSED TRAFFIC SIGNAL CONTROL CABINET SHALL BE FURNISHED WITH A MANUAL CONTROL SWITCH AND MANUAL CONTROL CORD WITHIN THE POLICE DOOR COMPARTMENT AS INCIDENTAL TO THE CONTROL CABINET PAY ITEM.
5. THE CONTRACTOR SHALL ARRANGE FOR A FACTORY OR SUPPLIER REPRESENTATIVE TO BE PRESENT AT THE INTERSECTION WHEN THE SIGNAL IS TURNED ON, INCIDENTAL TO THE CONTROLLER PAY ITEM.
6. THE DEPARTMENT OF TRANSPORTATION (815-434-8505) AND THE CITY OF KANKAKEE (815-928-7350) SHALL BE NOTIFIED AT LEAST 72 HOURS PRIOR TO THE TURNING ON OF THE CONTROLLER UNIT.
7. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR PLACING CONDUIT AT GREATER THAN 2 FEET MINIMUM DEPTH TO AVOID OBSTACLES SUCH AS UNDERGROUND UTILITIES.
8. ALL MAST ARM SIGNAL HEADS ON AN INDIVIDUAL MAST ARM SHALL BE MOUNTED SO THAT THE "RED" INDICATIONS ARE LEVEL WITH EACH OTHER.
9. THE ELECTRICAL CONDUCTORS FOR ALL TRAFFIC SIGNAL HEADS SHALL BE SOLID, SOFT COPPER.
10. ALL THREADS OF BOLTS USED IN TRAFFIC COMPONENT ASSEMBLIES SHALL BE COATED WITH A NON-LEAD BASED ANTI-SEIZE COMPOUND, SIMILAR TO LEAD PLATE, PRIOR TO ASSEMBLY.
11. THE CONTROLLER CABINET SHALL BE PLACED SO THAT A TECHNICIAN MAY SEE THE INTERSECTION OVER THE TOP OF THE CABINET WHILE WATCHING THE COMPONENTS IN THE CABINET.
12. BACK PLATES MUST BE POLYCARBONATE WITH A DEEP BACK FLANGE.
13. THE CONTRACTOR SHALL PROVIDE 3 FEET SLACK CABLE IN EACH TRAFFIC SIGNAL STRUCTURE: MAST ARM, POST, CONTROLLER. THE SLACK, WHICH IS IN ADDITION TO THE VERTICAL LENGTH OF CABLE DEFINED IN THE SPECIFICATIONS, SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR EACH CABLE.
14. ALL GROUNDING MATERIALS FOR TRAFFIC SIGNAL CONCRETE FOUNDATIONS SHALL REFER TO SECTION 807 IN THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED JANUARY 1, 2002.
15. ALL LED ARROW SECTIONS SHALL HAVE 3 ROWS.
16. THE CONTRACTOR SHALL PROVIDE A SELF-ADHERED PHASE DIAGRAM ON THE INSIDE OF THE CONTROLLER CABINET DOOR.
17. AT ALL LOCATIONS WHERE DETECTOR LOOPS ARE TO BE INSTALLED OVER EXISTING DETECTOR LOOPS, THE CONTRACTOR SHALL BE REQUIRED TO MAKE TWO SEPARATE SAW CUTS THROUGH EACH EXISTING DETECTOR LOOP TO PREVENT THE POSSIBILITY OF THE EXISTING LOOP SHORTING TO CREATE A CLOSED CIRCUIT. THIS WORK SHALL BE INCIDENTAL TO THE DETECTOR LOOP PAY ITEM.
18. ALL PEDESTRIAN SIGNAL HEAD DISPLAYS ARE TO BE SOLID SYMBOLS, NOT OUTLINED.
19. THE LENGTH OF DETECTOR LOOP CABLE FROM THE CURB TO THE JUNCTION BOX OR HANDHOLE IS INCIDENTAL TO THE DETECTOR LOOP PAY ITEM.
20. ALL SIGNAL BASES SHALL BE LOCATED AT 6 FOOT MINIMUM CLEARANCE FROM CURB UNLESS OTHERWISE DIRECTED BY ENGINEER.
21. ALL CONDUIT IN TRENCH SHALL BE P.V.C. ALL CONDUIT PUSHED MAY BE GALVANIZED STEEL OR P.V.C. CONDUIT ATTACHED TO STRUCTURES SHALL BE GALVANIZED STEEL.
22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPORTING THE NEW ELECTRICAL LOADS FOR THE UNMETERED SERVICES ON THIS IMPROVEMENT TO THE UTILITY COMPANY AND AGENCY RESPONSIBLE FOR ENERGY CHARGES.
23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ELECTRICAL SERVICE FOR THE TRAFFIC SIGNAL AND STREET LIGHTING. THE CONTRACTOR SHALL CONTACT THE UTILITY COMPANY PRIOR TO BEGINNING WORK TO OBTAIN THE UTILITY COMPANY REQUIREMENTS FOR THE SERVICE INSTALLATION.
24. ANY ADDITIONAL HARDWARE REQUIRED TO INSTALL SIGNAL HEADS ON EXISTING SIGN TRUSSES SHALL BE CONSIDERED INCLUDED IN COST OF SIGNAL HEAD PAY ITEM.
25. STREET LIGHTING SHALL BE LEFT OPERATIONAL DURING CONSTRUCTION.

SUMMARY OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	URBAN TOTAL QUANTITY	①	②	③
*42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ. FT.	78	---	78	---
*44000600	SIDEWALK REMOVAL	SQ. FT.	78	---	78	---
67100100	MOBILIZATION	L SUM	1	0.4	0.4	0.2
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	0.4	0.4	0.2
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	0.4	0.4	0.2
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	0.4	0.4	0.2
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	0.4	0.4	0.2
*72000100	SIGN PANEL-TYPE 1	SQ. FT.	84	46	38	---
*72000200	SIGN PANEL-TYPE 2	SQ. FT.	30	---	30	---
*72400900	REMOVE SIGN PANEL	EACH	1	1	---	---
80500200	SERVICE INSTALLATION, TYPE B	EACH	1	1	---	---
80803560	TRAFFIC SIGNAL WOOD POLE, 30 FT CLASS 4	EACH	1	1	---	---
81012300	CONDUIT IN TRENCH, 1" DIA., PVC	FOOT	10	10	---	---
81012600	CONDUIT IN TRENCH, 2" DIA., PVC	FOOT	7	---	7	---
81012700	CONDUIT IN TRENCH, 2 1/2" DIA., PVC	FOOT	163	70	93	---
81012800	CONDUIT IN TRENCH, 3" DIA., PVC	FOOT	62	62	---	---
81021320	CONDUIT PUSHED, 1 1/2" DIA., PVC	FOOT	222	222	---	---
81021350	CONDUIT PUSHED, 3" DIA., PVC	FOOT	306	118	188	---
81021370	CONDUIT PUSHED, 4" DIA., PVC	FOOT	207	102	105	---
81030000	CLEANING EXISTING CONDUIT	FOOT	800	---	---	800
81030100	CONDUIT SPLICE	EACH	1	---	---	1
81306500	REMOVE EXISTING JUNCTION BOX	EACH	1	---	---	1
81400400	CONCRETE HANDHOLE	EACH	1	1	---	---
81500200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	237	137	100	---
81600315	UNIT DUCT, 2#6XLP, 1#6 XLP GROUND 1" POLYETHYLENE	FOOT	132	132	---	---
82102250	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT 250-WATT	EACH	1	1	---	---
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	4	2	2	---
85700205	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	3	2	1	---
86000105	MASTER CONTROLLER (SPECIAL)	EACH	1	---	---	1
87100140	FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125, 12F	FOOT	1024	---	---	1024
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN NO.14, 1 PAIR	FOOT	492	492	---	---
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2/C	FOOT	435	197	238	---
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3/C	FOOT	463	211	252	---
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5/C	FOOT	2614	1142	1472	---
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7/C	FOOT	1664	643	1021	---
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE NO. 6 2C	FOOT	619	619	---	---
87502500	TRAFFIC SIGNAL POST GALVANIZED STEEL 16 FT.	EACH	3	2	1	---
87704070	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 28 FT. (SPECIAL)	EACH	2	2	---	---
87704090	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 32 FT. (SPECIAL)	EACH	1	1	---	---
87704110	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 36 FT. (SPECIAL)	EACH	2	---	2	---
87704140	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 42 FT. (SPECIAL)	EACH	2	---	2	---
87800115	CONCRETE FOUNDATION, TYPE A	EACH	3	2	1	---
87800400	CONCRETE FOUNDATION, TYPE E, 30 INCH DIAMETER	FOOT	20	20	---	---
87800415	CONCRETE FOUNDATION, TYPE E, 36 INCH DIAMETER	FOOT	59	11	48	---
87900200	DRILL EXISTING HANDHOLE	EACH	19	8	11	---
88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	42	19	23	---
88500100	INDUCTIVE LOOP DETECTOR	EACH	1	1	---	---
88600100	DETECTOR LOOP, TYPE I	EACH	100	100	---	---
88800100	PEDESTRIAN PUSH-BUTTON	EACH	10	8	2	---
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	9732	4623	4085	1024
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	4	2	2	---
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	11	5	6	---
X0322925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C	FOOT	1150	---	126	1024
X0323370	TRAFFIC SIGNAL BATTERY BACKUP	EACH	4	2	2	---
X0323481	VIDEO VEHICLE DETECTION SYSTEM, 4 CAMERAS	EACH	2	1	1	---
X8810395	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED	EACH	10	8	2	---
X8801300	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	6	6	---	---
X8801310	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	20	7	13	---
X8801395	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	10	5	5	---
X8801400	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	6	1	5	---
X8161000	EXPOSE AND RELOCATE EXISTING UNIT DUCT	FOOT	10	10	---	---
X0324348	VIDEO VEHICLE DETECTION SYSTEM, 5 CAMERAS	EACH	1	1	---	---
X0002056	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1	1	---	---
B6400100	FIBER OPTIC TRUNK CABLE	EACH	1	1	---	---

STEP 1
WIND ALL LOOPS CLOCKWISE. LABEL BEGINNING END OF CABLE A.
LABEL ENDING END OF CABLE B.



STEP 2
CONNECT LEAD B OF LOOP 1 TO LEAD B OF LOOP 2.
CONNECT LEAD A OF LOOP 2 TO LEAD A OF LOOP 3.

DETECTOR LOOP WINDING AND SERIES SPLICING DETAIL
(SEE DETECTOR LOOP INDUCTANCE CHART FOR NUMBER OF TURNS)

66447

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS NO.	SHEET NO.
#	#	KANKAKEE	13	2

FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT
#	FAP ROUTE 330 (IL 17)	#
#	SEC. NO. (46-3) TS-1 & (1) TS-1	#

LEGEND:

- ① Y031-1F
100% STATE
- ② Y031-1F
90% STATE
10% CITY
- ③ Y031-1F
96% STATE
4% CITY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE

PREPARED BY: *James A. Huchman*
DISTRICT OPERATIONS ENGINEER

DATE: **2-4-04**

EXAMINED BY: *Robert B. Huchman*
DISTRICT CONSTRUCTION ENGINEER

Bernard R. Huchman
DISTRICT MATERIALS ENGINEER

Thomas E. Huchman
DISTRICT STUDIES & PLANS ENGINEER

TRAFFIC SIGNAL NOTES & QUANTITIES
FAP ROUTE 330 (IL 17)
SEC. NO. (46-3) TS-1 & (1) TS-1
KANKAKEE COUNTY

Rev.

DESIGNED	J.L.S.
CHECKED	M.V.F.
DRAWN	J.M.M.
CHECKED	M.V.F.

TRAFFIC SIGNALS LEGEND

EXISTING	PROPOSED	
		SERVICE INSTALLATION
		CONTROLLER CABINET
		CONDUIT
		EXISTING CONDUIT TO BE USED
		SIGNAL HEAD WITH BACKPLATE
		STEEL MAST ARM WITH POST
		TRAFFIC SIGNAL POST
		HANDHOLE
		DOUBLE HANDHOLE
		SIGNAL HEAD, PEDESTRIAN
		DETECTOR LOOP
		SIGNAL HEAD REPLACEMENT, PEDESTRIAN
		SIGNAL HEAD REPLACEMENT
		LIGHT ON MAST ARM
		PEDESTRIAN PUSH-BUTTON
		VIDEO DETECTOR
		VIDEO DETECTION ZONE

CONSTRUCTION NOTES:

REPLACE ALL EXISTING SIGNALS HEADS AT THIS INTERSECTION.

REPLACE ALL DETECTION LOOPS EXCEPT THOSE INDICATED, WITH VIDEO DETECTION.

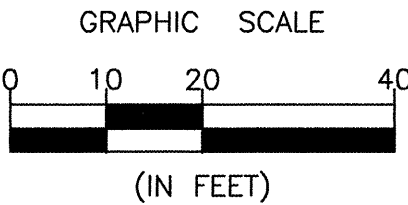
REMOVE ALL UNUSED LEAD-IN CABLE.

EXISTING INTERCONNECT CONDUIT SHALL BE UTILIZED TO RUN PROPOSED FIBER OPTIC CABLE TO IL RTE 17 AT I-57 N.B. RAMP (THIS WILL REQUIRE REMOVAL OF THE EXISTING INTERCONNECT CABLE AND CLEANING OF THE EXISTING CONDUIT).

REMOVAL OF THE FOLLOWING ITEMS SHALL BE PAID FOR AS REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT:

- 6 EACH - PEDESTRIAN SIGNAL HEAD, 1-FACE, BRACKET MOUNTED.
- 4 EACH - SIGNAL HEAD, 1-FACE, 3 SECTION, MAST ARM MOUNTED.
- 5 EACH - SIGNAL HEAD, 1-FACE, 3 SECTION, BRACKET MOUNTED.
- 1 EACH - SIGNAL HEAD, 1-FACE, 4 SECTION, BRACKET MOUNTED.
- 1 EACH - SIGNAL HEAD, 1-FACE, 5 SECTION, BRACKET MOUNTED.
- 6 EACH - EXISTING PEDESTRIAN PUSH-BUTTON
- 1 EACH - TRAFFIC SIGNAL WOOD POLE
- 1 EACH - MAST ARM ASSEMBLY AND POLE

PREEMPT DETECTION ZONE



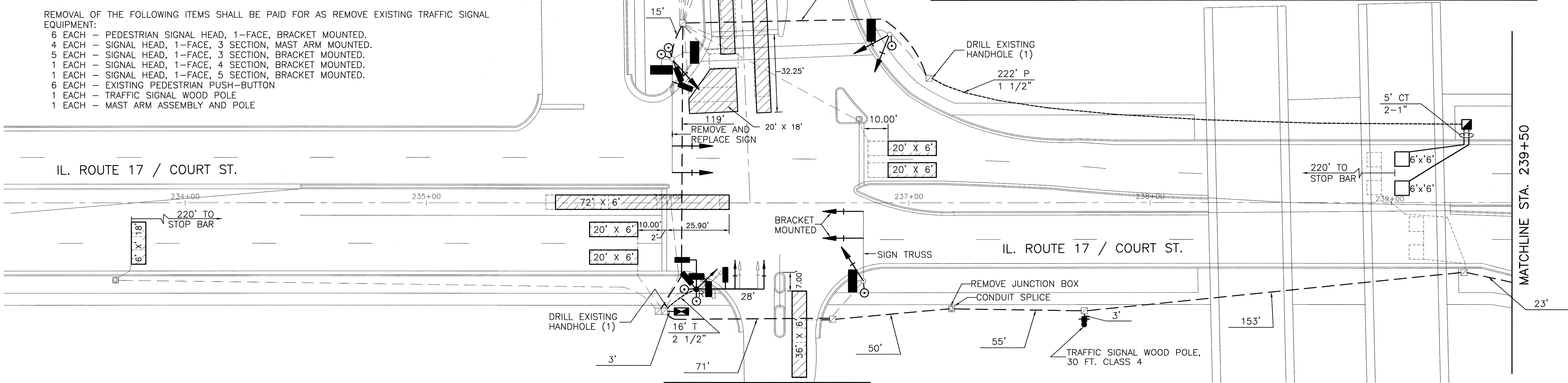
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS NO.	SHEET NO.
7	7	KANKAKEE	13	3

FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT

FAP ROUTE 330 (IL 17)
SEC. NO. (46-3) TS-1 & (1) TS-1

SCHEDULE OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITY
72000100	SIGN PANEL-TYPE 1	SQ. FT	23
72400900	REMOVE SIGN PANEL	EACH	1
80500200	SERVICE INSTALLATION, TYPE B	EACH	1
80803560	TRAFFIC SIGNAL WOOD POLE, 30 FT CLASS 4	EACH	1
81012300	CONDUIT IN TRENCH, 1" DIA., PVC	FOOT	10
81012700	CONDUIT IN TRENCH, 2 1/2" DIA., PVC	FOOT	16
81021320	CONDUIT PUSHED, 1 1/2" DIA., PVC	FOOT	222
81030000	CLEANING EXISTING CONDUIT	FOOT	352
81030100	CONDUIT SPLICE	EACH	1
81306500	REMOVE EXISTING JUNCTION BOX	EACH	1
81400400	CONCRETE HANDHOLE	EACH	1
81500200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	21
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
85700205	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
87100140	FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125, 12F	FOOT	391
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN NO.14, 1 PAIR	FOOT	492
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 / 5C	FOOT	226
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE NO. 6 2C	FOOT	214
87704070	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 28 FT. (SPECIAL)	EACH	1
87800400	CONCRETE FOUNDATION, TYPE E, 30 INCH DIAMETER	FOOT	10
87900200	DRILL EXISTING HANDHOLE	EACH	2
88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	11
88500100	INDUCTIVE LOOP DETECTOR	EACH	1
88600100	DETECTOR LOOP, TYPE I	FOOT	100
88800100	PEDESTRIAN PUSH-BUTTON	EACH	6
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2242
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	1
X0322925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C	FOOT	391
X0323370	TRAFFIC SIGNAL BATTERY BACKUP	EACH	1
X8410405	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED	EACH	6
X8801300	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	5
X8801310	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	4
X8801395	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
	VIDEO VEHICLE DETECTION SYSTEM, 5 CAMERAS	EACH	1
	FIBER OPTIC TRUNK CABLE	EACH	1
	RE-CONFIGURE TRAFFIC SIGNALS	EACH	0.33



DESIGNED	J.L.S.
CHECKED	M.V.F.
DRAWN	J.M.M.
CHECKED	M.V.F.

SIGNAL PLAN

IL ROUTE 17 / COURT STREET AND I-57 S.B. RAMP

TRAFFIC SIGNAL PLAN
IL ROUTE 17 / COURT STREET
AND I-57 S.B. RAMP
FAP ROUTE 330 (IL 17)
SEC. NO. (46-3) TS-1 & (1) TS-1
KANKAKEE COUNTY

66447

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
≠	≠≠	KANKAKEE	13	4
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				

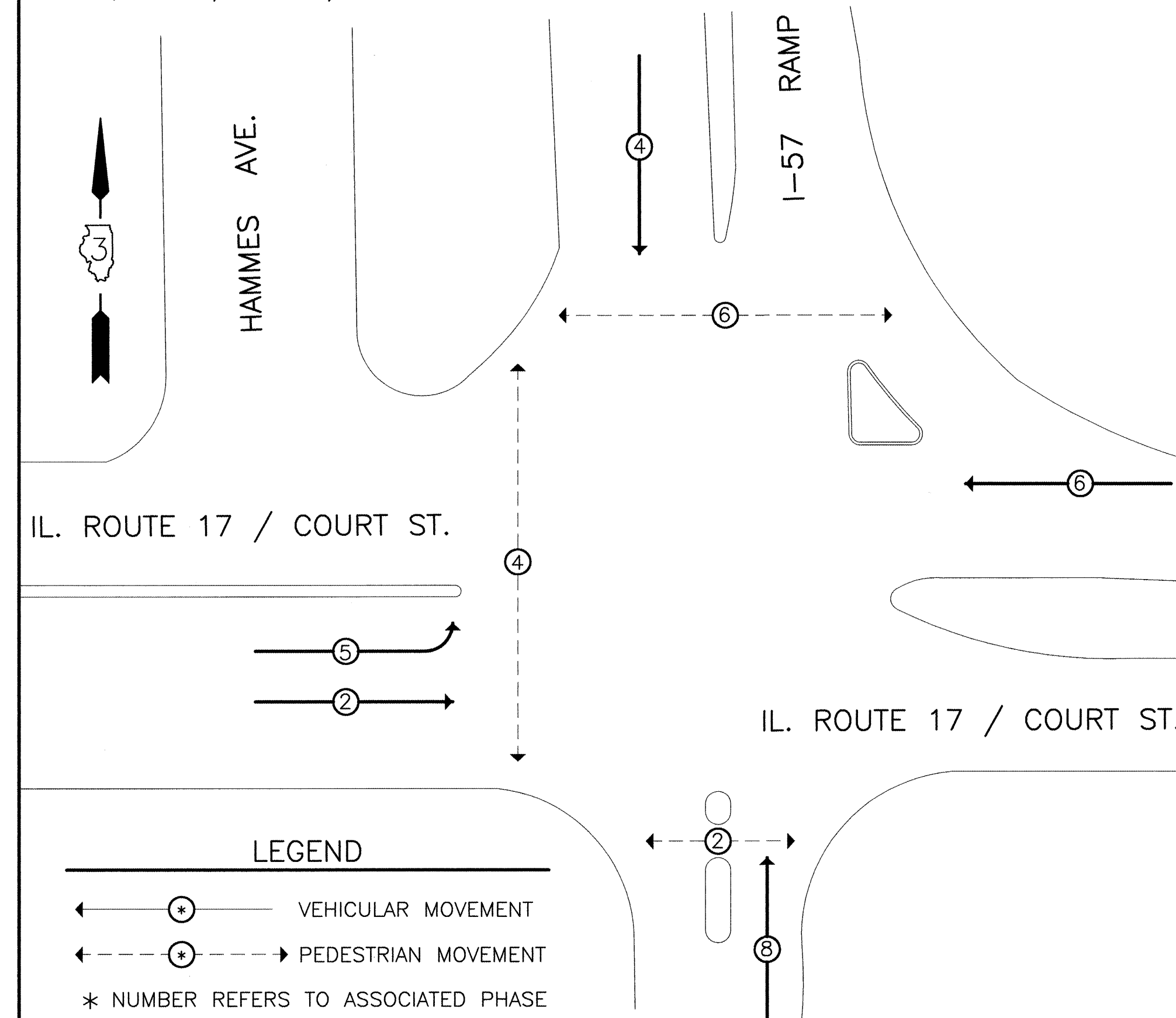
≠ FAP ROUTE 330 (IL 17)
≠≠ SEC. NO. (46-3) TS-1 & (1) TS-1

CABLE PLAN LEGEND

EXISTING	PROPOSED	
		DENOTES NUMBER OF CONDUCTORS (NEW) ALL CABLE NO. 14 EXCEPT AS INDICATED
		DETECTOR LOOP IDENTIFICATION
		SERVICE INSTALLATION
		CONTROLLER CABINET
		SIGNAL FACE WITH BACKPLATE
		SIGNAL SECTION
		YELLOW TURN ARROW
		GREEN TURN ARROW
		DETECTOR LOOP
		DON'T WALK WALK
		PEDESTRIAN PUSH-BUTTON
		FIBER OPTIC CABLE NO. 62.5/125, 12F
		VIDEO DETECTOR

CONTROLLER SEQUENCE

NAME OF INTERSECTION: IL ROUTE 17 / COURT ST. AND I-57 S.B. RAMP
REFERRING TO STANDARD 857001, THE VEHICULAR AND PEDESTRIAN
PHASES USED ARE SHOWN BELOW
CONTROLLER : FULL-ACTUATED CONTROLLER, STANDARD
SEQUENCE II, 8 PHASE, IN TYPE IV CABINET



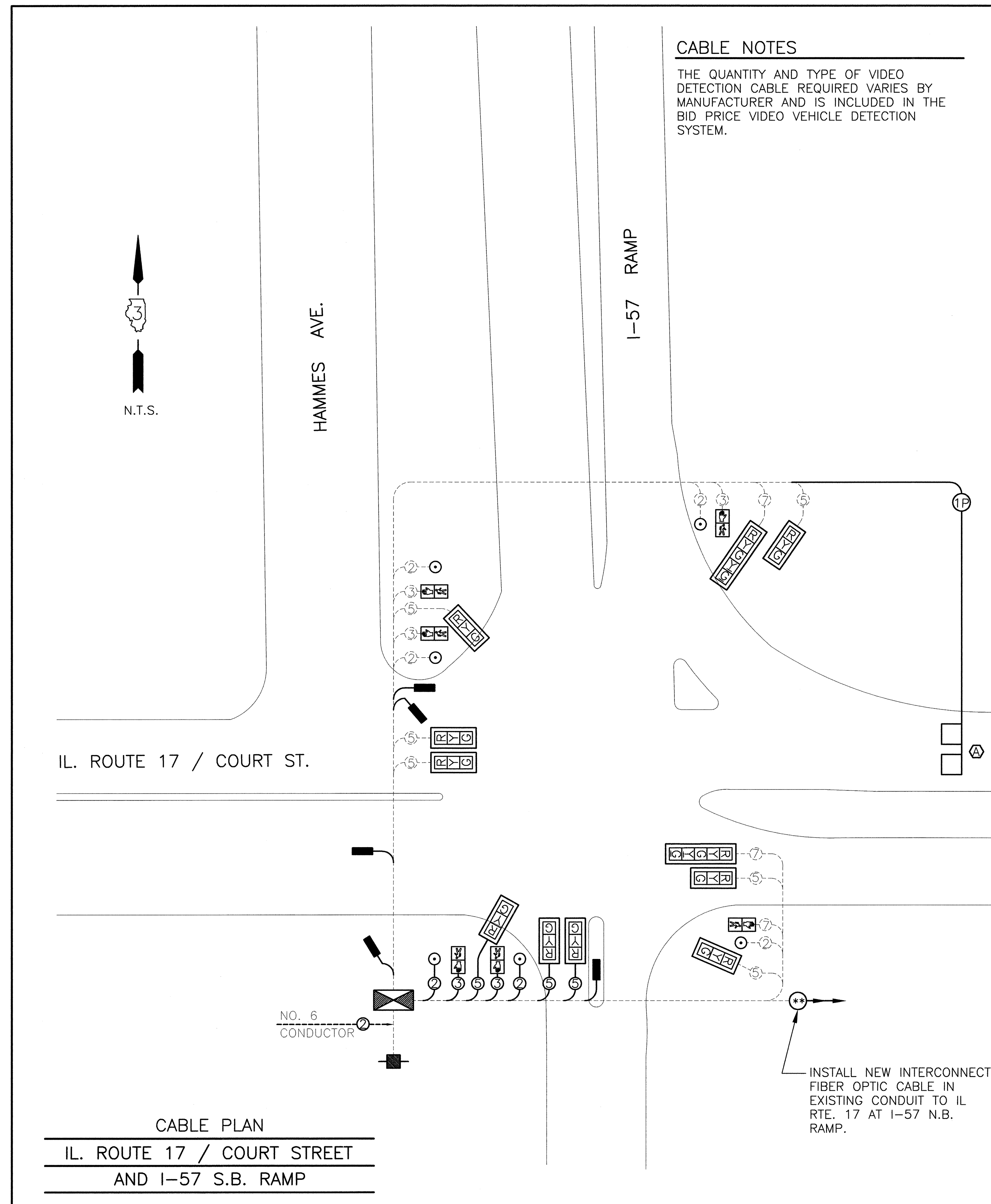
LEGEND

- ← (solid line with arrow) → VEHICULAR MOVEMENT
- ← (dashed line with arrow) → PEDESTRIAN MOVEMENT
- * NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM IL. ROUTE 17 / COURT STREET AND I-57 S.B. RAMP

CABLE NOTES

THE QUANTITY AND TYPE OF VIDEO
DETECTION CABLE REQUIRED VARIES BY
MANUFACTURER AND IS INCLUDED IN THE
BID PRICE VIDEO VEHICLE DETECTION
SYSTEM.



CABLE PLAN

IL. ROUTE 17 / COURT STREET
AND I-57 S.B. RAMP

DESIGNED	J.L.S.
CHECKED	M.V.F.
DRAWN	J.M.M.
CHECKED	M.V.F.

CABLE PLAN
IL ROUTE 17 / COURT STREET
AND I-57 S.B. RAMP
FAP ROUTE 330 (IL 17)
SEC. NO. (46-3) TS-1 & (1) TS-1
KANKAKEE COUNTY

DETECTOR LOOP INDUCTANCE CHART						
DETECTOR LOOP SYSTEM	Ø	LOCATION	TURNS PER LOOP	INDUCTANCE READING (MICROHENRIES)	FREQUENCY (HERTZ)	J PIN STATUS
A	6	WB FAR	6	601	24891	ON

J PIN STATUS: "ON" MEANS STANDARD DETECTOR SETUP. "OFF" MEANS J WIRE HAS BEEN DISCONNECTED. BUT INTACT, AT THE HARNESS PANEL WITH THE NECESSARY SPADE CONNECTION ATTACHED, MARKED, AND INSULATED.

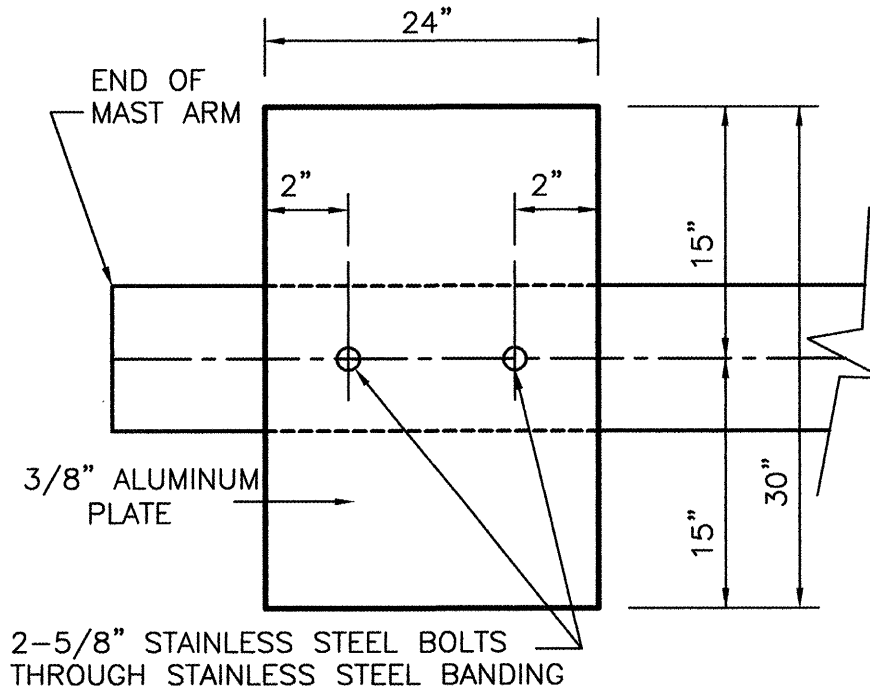
VIDEO DETECTION CAMERA SCHEDULE		
VIDEO CAMERA NO.	Ø	DETECTION ZONES.
1	6	WB STBR
2	8	NB
3	4	SB-PREEMPT, FAR, LT. & RT.
4	2 & 5	EB-LT. & STBR
5	5	EB FAR

ELECTRICAL LOAD FOR INTERSECTION				
STREET NAME	COMPONENT	NUMBER	WATTAGE EACH	BURNTIME %
ILL. RTE. 17	RED	6	10	45
	YELLOW	6	19	5
	GREEN	6	14	50
	YELLOW ARROW-LT.	2	9	5
	GREEN ARROW-LT.	2	3.4	15
		4	7	87
I-57 S.B. RAMP	RED	5	10	62
	YELLOW	5	19	5
	GREEN	5	14	33
		2	7	87
		2	5	13
	TRAFFIC SIGNAL CABINET	1	6	100
	VEHICLE DETECTORS	1	4	100

AGENCY RESPONSIBLE FOR ENERGY CHARGES: CITY OF KANKAKEE

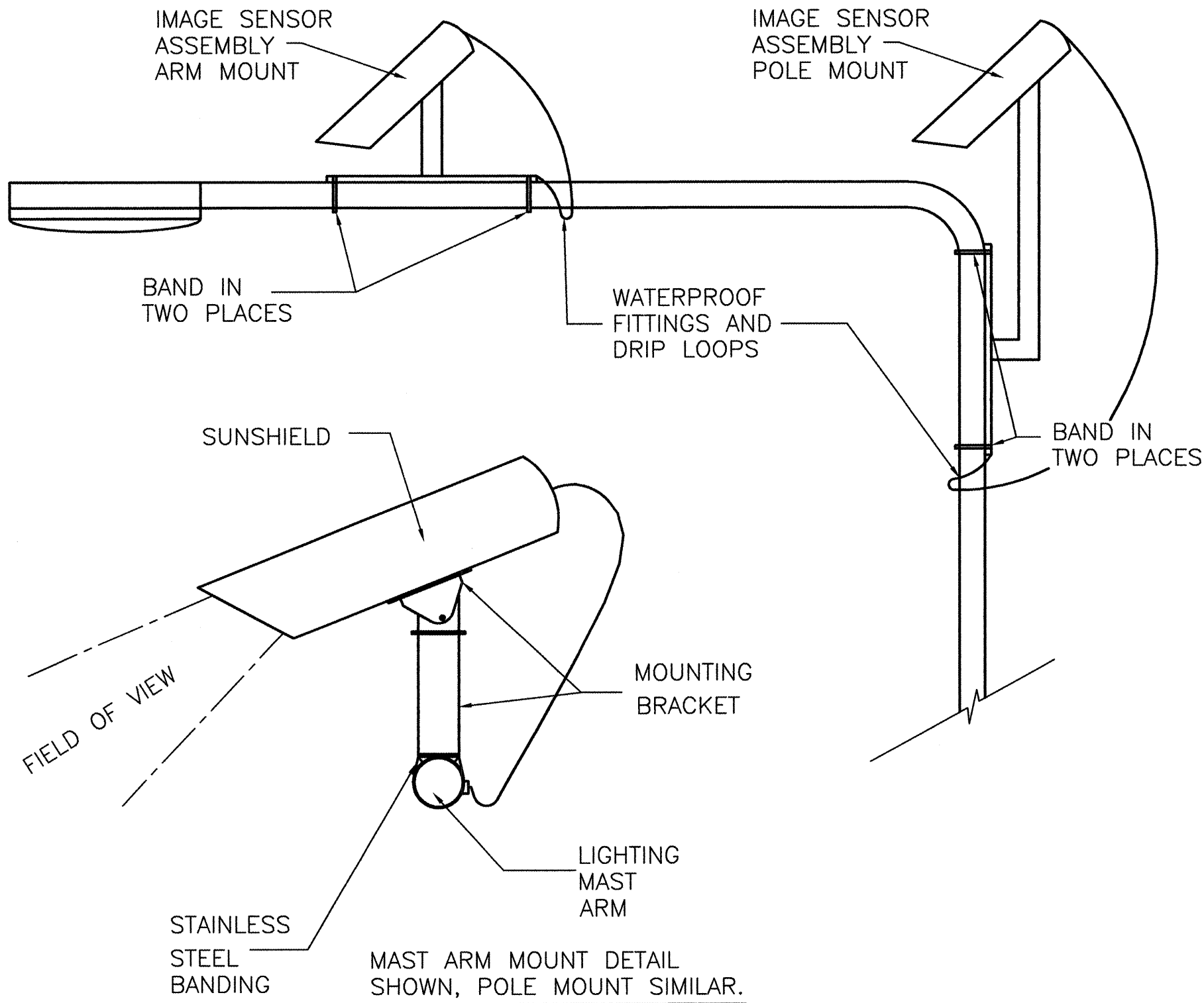
NOTE:

DAMPENING DEVICE SHALL CONSIST OF A 24" X 30" TYPE 1, UNPAINTED ALUMINUM SIGN STOCK MOUNTED HORIZONTALLY ON TOP OF MAST ARM WITH THE 30" LENGTH PERPENDICULAR TO THE ARM. COST OF THE DAMPENING DEVICE IS INCLUDED IN THE MAST ARM PAY ITEM.



NOTE:
MOUNT DAMPENING PLATE TO END OF EACH TRAFFIC SIGNAL MAST ARM.

DAMPENING PLATE DETAIL – TOP VIEW



NOTES: MOUNT LUMINAIRE MOUNTING BRACKET AS HIGH AS POSSIBLE. AIM BRACKET TOWARD DIRECTION OF TRAFFIC TO BE DETECTED. MOUNT IMAGE SENSOR AIMING DOWN AT 30° ANGLE.

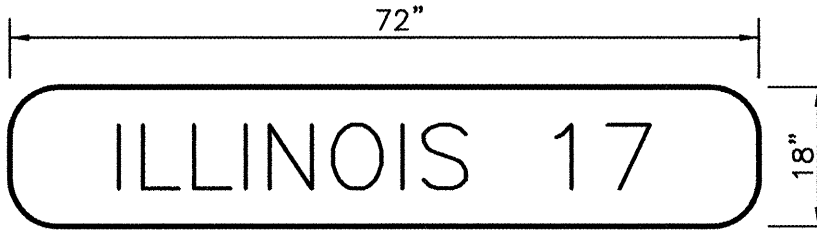
WARNING: AIMING THE IMAGE SENSOR AT DIRECT SUNLIGHT WILL CAUSE PERMANENT DAMAGE TO THE IMAGE SENSOR.

ALL HARDWARE REQUIRED TO INSTALL VIDEO DETECTION CAMERAS TO MAST ARMS OR SIGNAL POLES SHALL BE INCLUDED IN THE BID PRICE VIDEO VEHICLE DETECTION SYSTEM.

VIDEO DETECTION
CAMERA MOUNTING DETAILS

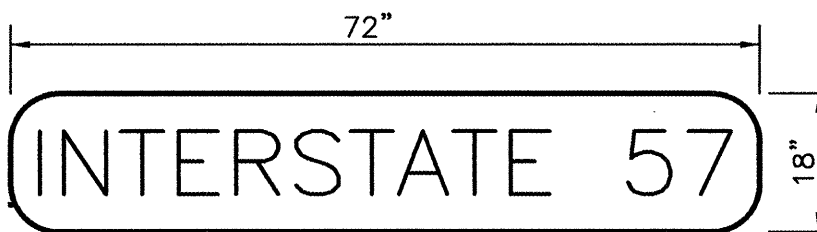
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
≠	≠≠	KANKAKEE	13	5
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				

≠ FAP ROUTE 330 (IL 17)
≠≠ SEC. NO. (46-3) TS-1 & (1) TS-1



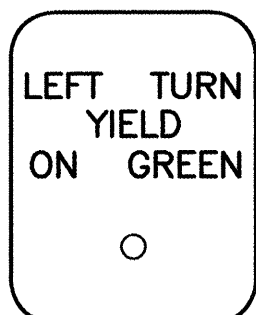
TYPE A SHEETING REQUIRED
8" D SERIES LETTERS
1 SIGN REQUIRED = 9.00 SQ. FT. EACH
= 9.00 SQ. FT. TOTAL

THIS STREET NAME SIGN SHALL BE PLACED ON THE MAST ARM PARALLEL WITH ILLINOIS ROUTE 17



TYPE A SHEETING REQUIRED
8" D SERIES LETTERS
1 SIGN REQUIRED = 9.00 SQ. FT. EACH
= 9.00 SQ. FT. TOTAL

THIS STREET NAME SIGN SHALL BE PLACED ON THE MAST ARM PARALLEL WITH I-57 S.B. RAMP

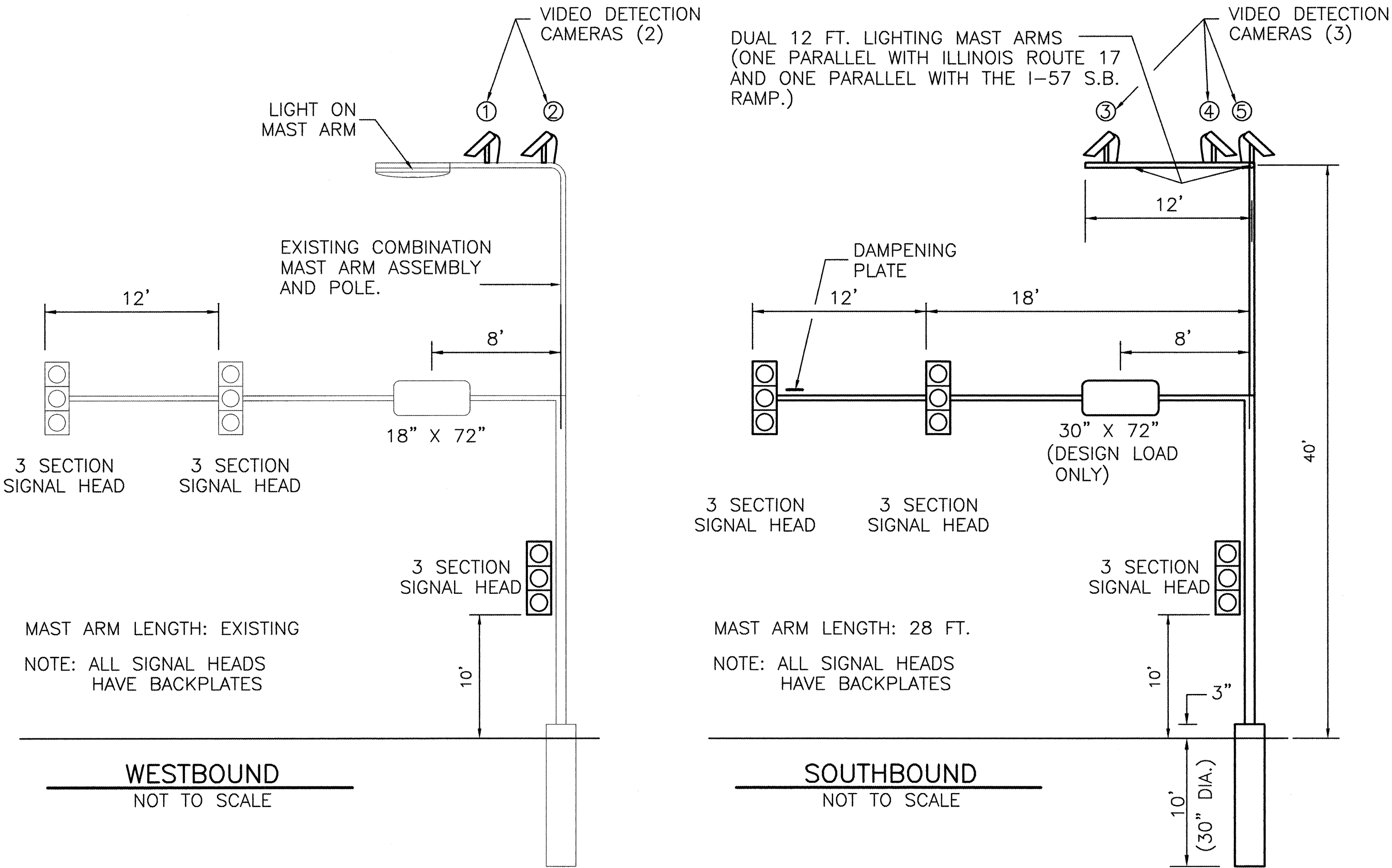


R10 - 12
24" X 30"

TYPE A SHEETING REQUIRED
1 SIGN REQUIRED = 5 SQ.FT. EACH
= 5 SQ.FT. TOTAL

THIS SIGN SHALL BE LOCATED 6" TO 12" TO THE RIGHT OF THE 5 SECTION SIGN. TRUSS MOUNTED LEFT TURN SIGNAL (ANY ADDITIONAL HARDWARE REQUIRED FOR THIS INSTALLATION SHALL BE INCLUDED WITH COST OF SIGN).

TRAFFIC SIGNAL DETAILS
IL ROUTE 17 / COURT STREET
AND I-57 S.B. RAMP
FAP ROUTE 330 (IL 17)
SEC. NO. (46-3) TS-1 & (1) TS-1
KANKAKEE COUNTY



MAST ARM LOADING DIAGRAM

DESIGNED	J.L.S.
CHECKED	M.V.F.
DRAWN	J.M.M.
CHECKED	M.V.F.

66447

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7	7	KANKAKEE	13	6

FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT

FAP ROUTE 330 (IL 17)
SEC. NO. (46-3) TS-1 & (1) TS-1

CONSTRUCTION NOTES:

REPLACE ALL EXISTING SIGNALS HEADS AT THIS INTERSECTION.

REPLACE ALL DETECTION LOOPS WITH VIDEO DETECTION.

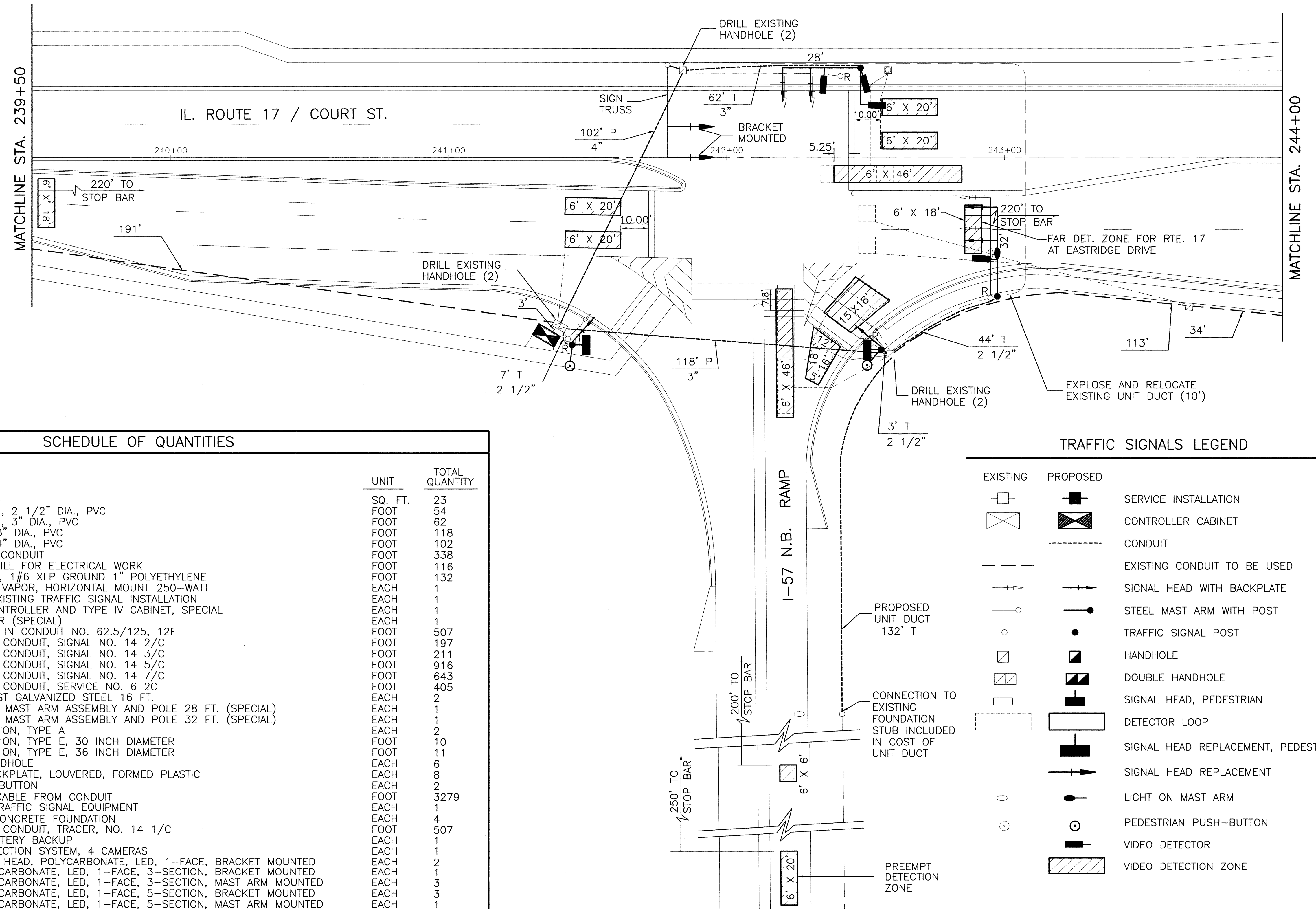
REMOVE ALL UNUSED LEAD-IN CABLE.

REPLACE ALL EXISTING ELECTRIC CABLE IN CONDUIT.

EXISTING INTERCONNECT CONDUIT SHALL BE UTILIZED TO RUN PROPOSED FIBER OPTIC CABLE TO IL RTE 17 AT I-57 S.B. RAMP AND EASTRIDGE DRIVE (THIS WILL REQUIRE REMOVAL OF THE EXISTING INTERCONNECT CABLE AND CLEANING OF THE EXISTING CONDUIT).

REMOVAL OF THE FOLLOWING ITEMS SHALL BE PAID FOR AS REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT:

- 2 EACH - PEDESTRIAN SIGNAL HEAD, 1-FACE, BRACKET MOUNTED.
- 3 EACH - SIGNAL HEAD, 1-FACE, 3 SECTION, MAST ARM MOUNTED.
- 1 EACH - SIGNAL HEAD, 1-FACE, 3 SECTION, BRACKET MOUNTED.
- 2 EACH - SIGNAL HEAD, 1-FACE, 4 SECTION, BRACKET MOUNTED.
- 1 EACH - SIGNAL HEAD, 1-FACE, 4 SECTION, MAST ARM MOUNTED.
- 2 EACH - EXISTING PEDESTRIAN PUSH-BUTTON
- 2 EACH - TRAFFIC SIGNAL POST
- 2 EACH - MAST ARM ASSEMBLY AND POLE



SCHEDULE OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITY
72000100	SIGN PANEL-TYPE 1	SQ. FT.	23
81012700	CONDUIT IN TRENCH, 2 1/2" DIA., PVC	FOOT	54
81012800	CONDUIT IN TRENCH, 3" DIA., PVC	FOOT	62
81021350	CONDUIT PUSHED, 3" DIA., PVC	FOOT	118
81021370	CONDUIT PUSHED, 4" DIA., PVC	FOOT	102
81030000	CLEANING EXISTING CONDUIT	FOOT	338
81500200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	116
81600315	UNIT DUCT, 2#6XLP, 1#6 XLP GROUND 1" POLYETHYLENE	FOOT	132
82102250	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT 250-WATT	EACH	1
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
85700205	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
86000105	MASTER CONTROLLER (SPECIAL)	EACH	1
87100140	FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125, 12F	FOOT	507
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2/C	FOOT	197
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3/C	FOOT	211
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5/C	FOOT	916
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7/C	FOOT	643
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE NO. 6 2C	FOOT	405
87502500	TRAFFIC SIGNAL POST GALVANIZED STEEL 16 FT.	EACH	2
87704070	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 28 FT. (SPECIAL)	EACH	1
87704090	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 32 FT. (SPECIAL)	EACH	1
87800115	CONCRETE FOUNDATION, TYPE A	EACH	2
87800400	CONCRETE FOUNDATION, TYPE E, 30 INCH DIAMETER	FOOT	10
87800415	CONCRETE FOUNDATION, TYPE E, 36 INCH DIAMETER	FOOT	11
87900200	DRILL EXISTING HANDHOLE	EACH	6
88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	8
88800100	PEDESTRIAN PUSH-BUTTON	EACH	2
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	3279
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	4
X0322925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C	FOOT	507
X0323370	TRAFFIC SIGNAL BATTERY BACKUP	EACH	1
X0323481	VIDEO VEHICLE DETECTION SYSTEM, 4 CAMERAS	EACH	1
X8410405	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED	EACH	2
X8801300	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
X8801310	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	3
X8801395	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	3
X8801400	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1
	EXPLORE AND RELOCATE EXISTING UNIT DUCT	FOOT	10
	FIBER OPTIC TRANSDUCER	EACH	1
	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1

TRAFFIC SIGNALS LEGEND

EXISTING	PROPOSED	
		SERVICE INSTALLATION
		CONTROLLER CABINET
		CONDUIT
		EXISTING CONDUIT TO BE USED
		SIGNAL HEAD WITH BACKPLATE
		STEEL MAST ARM WITH POST
		TRAFFIC SIGNAL POST
		HANDHOLE
		DOUBLE HANDHOLE
		SIGNAL HEAD, PEDESTRIAN
		DETECTOR LOOP
		SIGNAL HEAD REPLACEMENT, PEDESTRIAN
		SIGNAL HEAD REPLACEMENT
		LIGHT ON MAST ARM
		PEDESTRIAN PUSH-BUTTON
		VIDEO DETECTOR
		VIDEO DETECTION ZONE

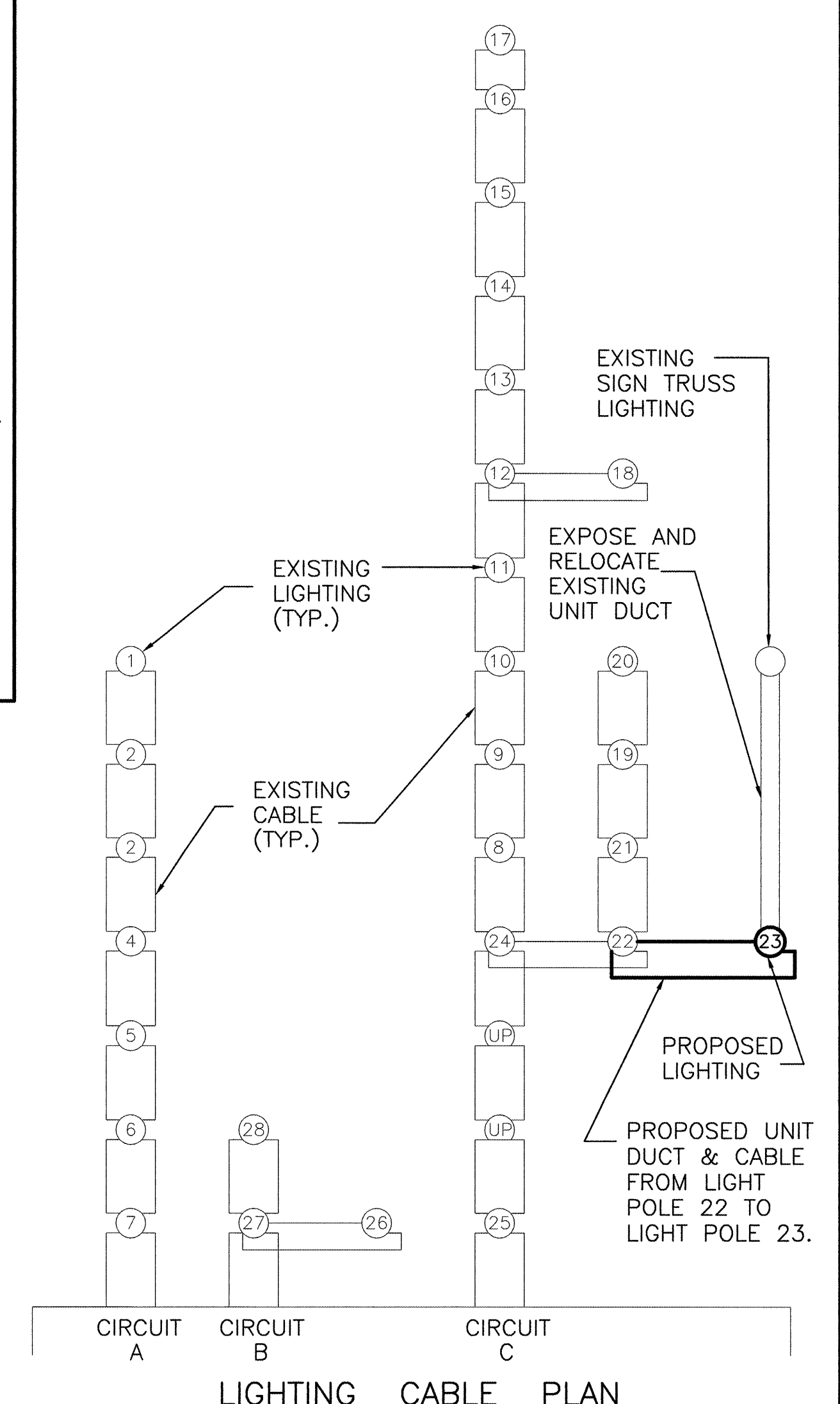
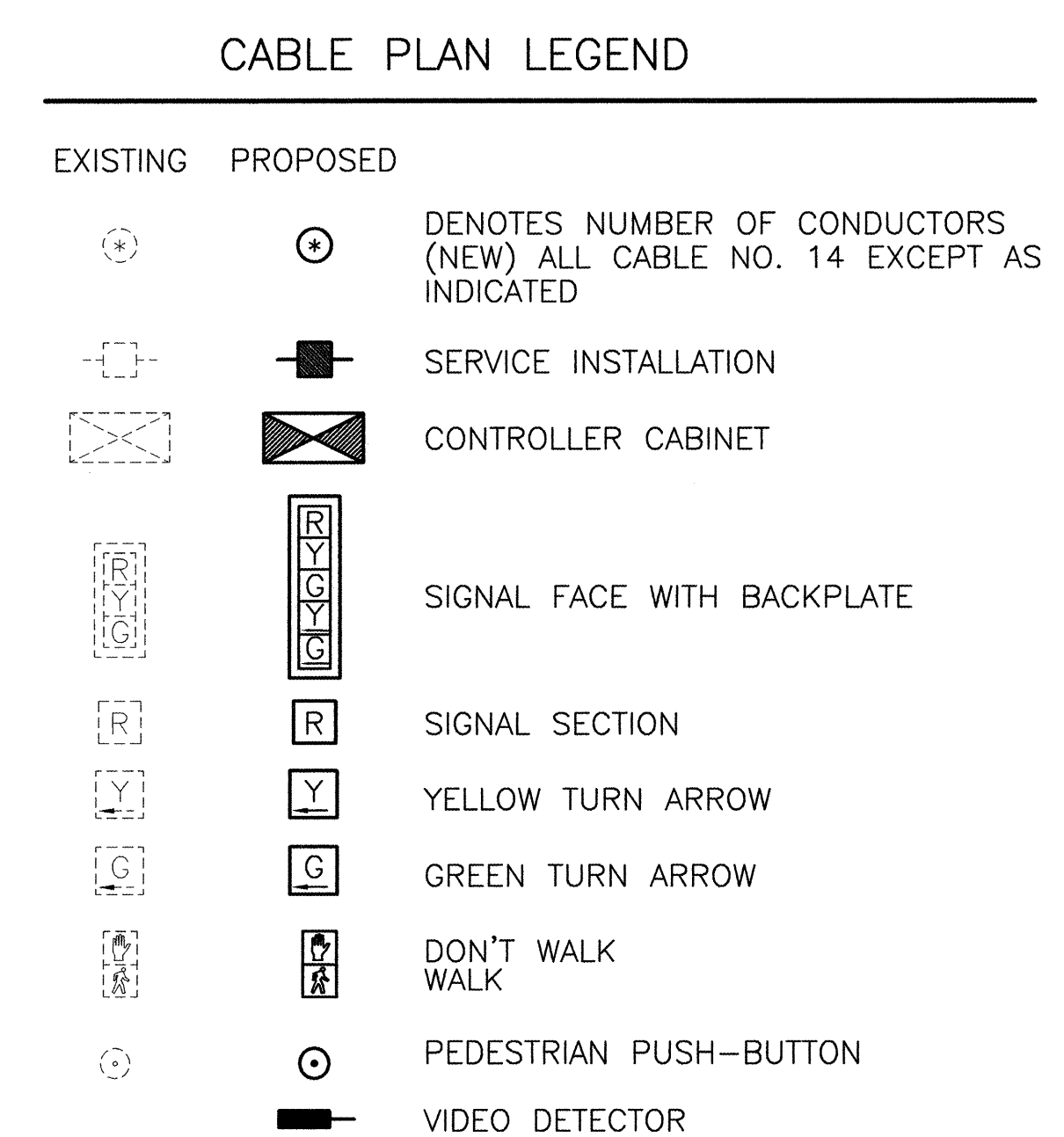
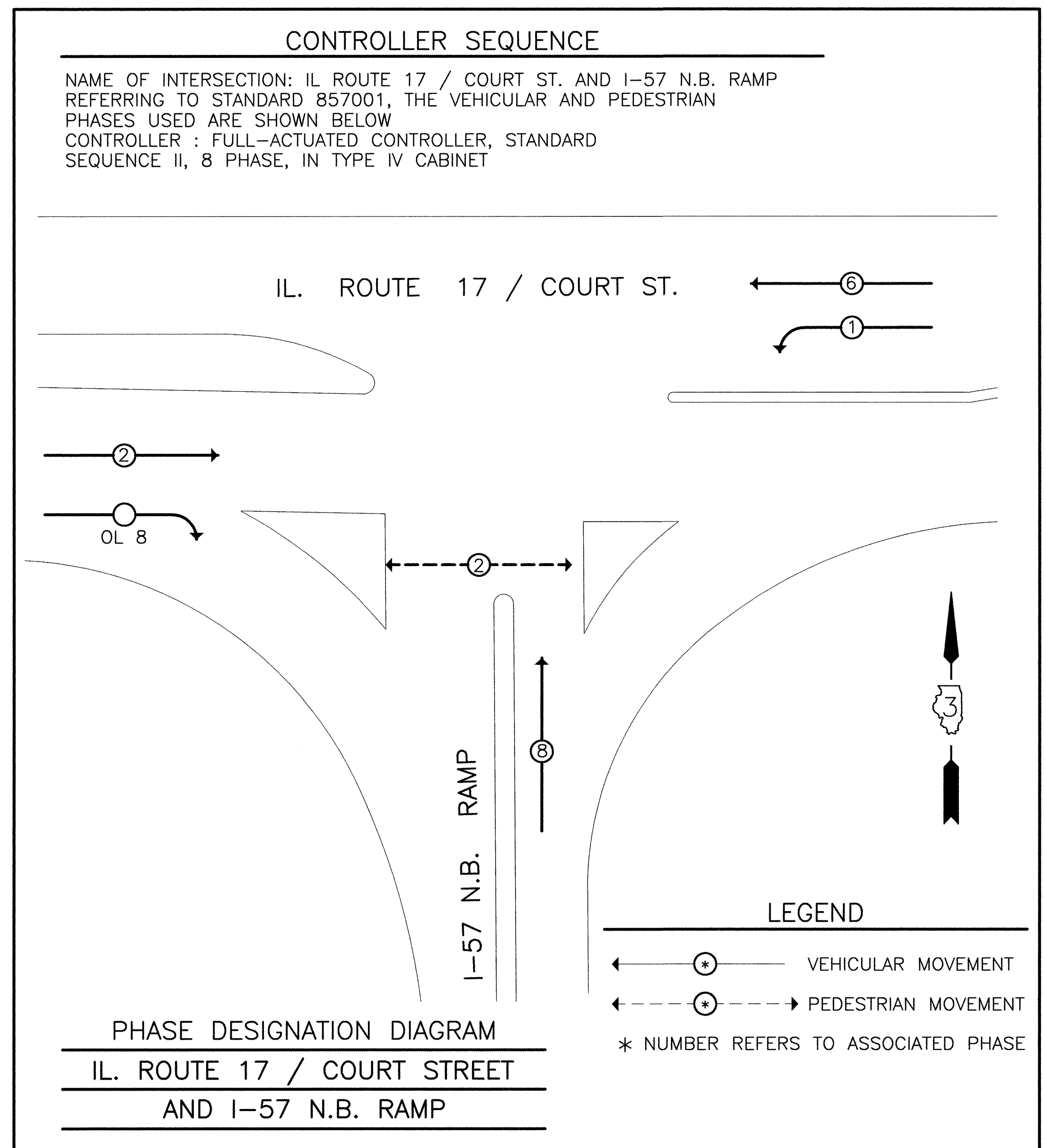
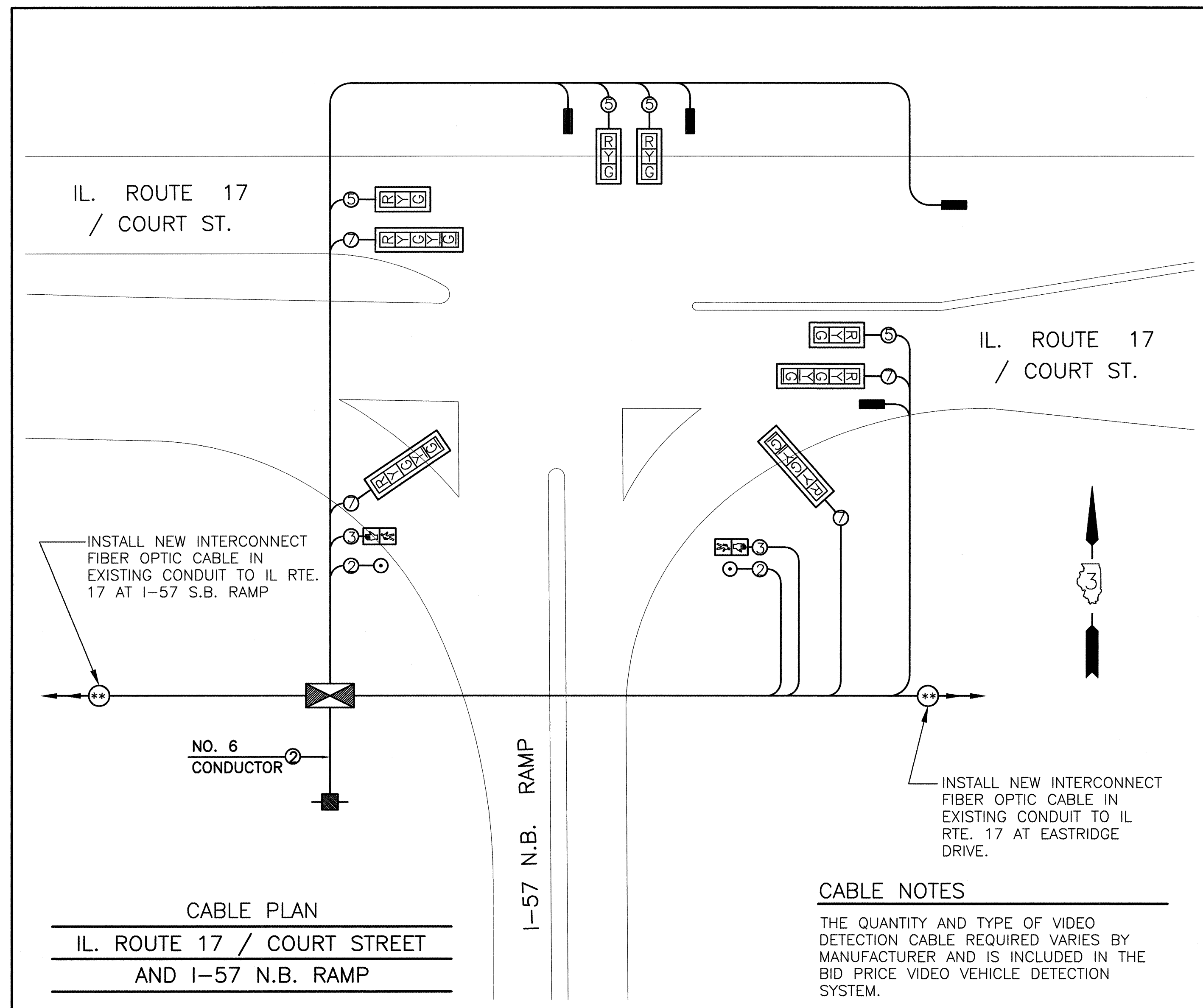
TRAFFIC SIGNAL PLAN
IL ROUTE 17 / COURT STREET
AND I-57 N.B. RAMP
FAP ROUTE 330 (IL 17)
SEC. NO. (46-3) TS-1 & (1) TS-1
KANKAKEE COUNTY

DESIGNED	J.L.S.
CHECKED	M.V.F.
DRAWN	J.M.M.
CHECKED	M.V.F.

66447

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
≠	≠≠	KANKAKEE	13	7
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				

≠ FAP ROUTE 330 (IL 17)
≠≠ SEC. NO. (46-3) TS-1 & (1) TS-1



DESIGNED	J.L.S.
CHECKED	M.V.F.
DRAWN	J.M.M.
CHECKED	M.V.F.

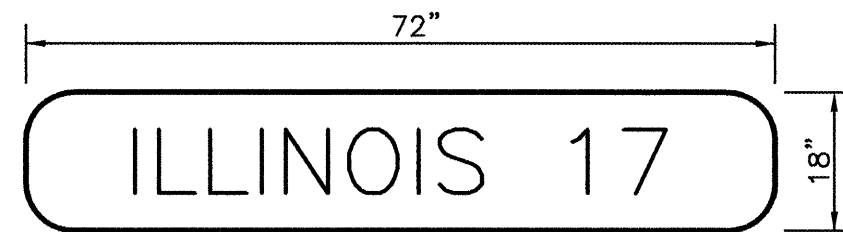
CABLE PLAN
IL ROUTE 17 / COURT STREET
AND I-57 N.B. RAMP
FAP ROUTE 330 (IL 17)
SEC. NO. (46-3) TS-1 & (1) TS-1
KANKAKEE COUNTY

66447

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
≠	≠≠	KANKAKEE	13	8

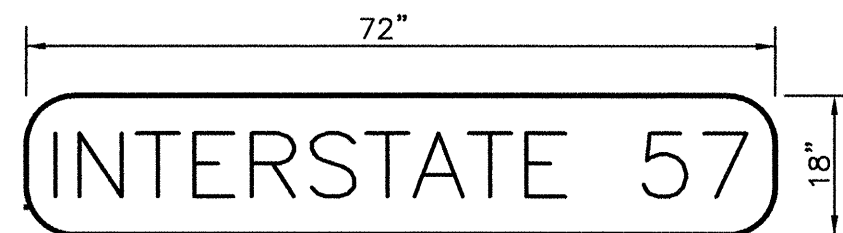
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT
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≠ FAP ROUTE 330 (IL 17)
≠≠ SEC. NO. (46-3) TS-1 & (1) TS-1



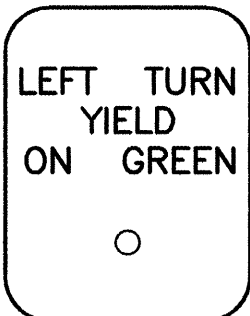
TYPE A SHEETING REQUIRED
8" D SERIES LETTERS
1 SIGN REQUIRED = 9.00 SQ. FT. EACH
= 9.00 SQ. FT. TOTAL

THIS STREET NAME SIGN SHALL BE PLACED ON THE
MAST ARM PARALLEL WITH ILLINOIS ROUTE 17.



TYPE A SHEETING REQUIRED
8" D SERIES LETTERS
1 SIGN REQUIRED = 9.00 SQ. FT. EACH
= 9.00 SQ. FT. TOTAL

THIS STREET NAME SIGN SHALL BE PLACED ON THE
MAST ARM PARALLEL WITH I-57 N.B. RAMP.



R10 - 12
24" X 30"

TYPE A SHEETING REQUIRED
1 SIGN REQUIRED = 5 SQ.FT. EACH
= 5 SQ.FT. TOTAL

THIS SIGN SHALL BE LOCATED 6" TO 12"
TO THE RIGHT OF THE 5 SECTION SIGN
TRUSS MOUNTED LEFT TURN SIGNAL (ANY
ADDITIONAL HARDWARE REQUIRED FOR THIS
INSTALLATION SHALL BE INCLUDED WITH
COST OF SIGN).

TRAFFIC SIGNAL DETAILS
IL ROUTE 17 / COURT STREET
AND I-57 N.B. RAMP
FAP ROUTE 330 (IL 17)
SEC. NO. (46-3) TS-1 & (1) TS-1
KANKAKEE COUNTY

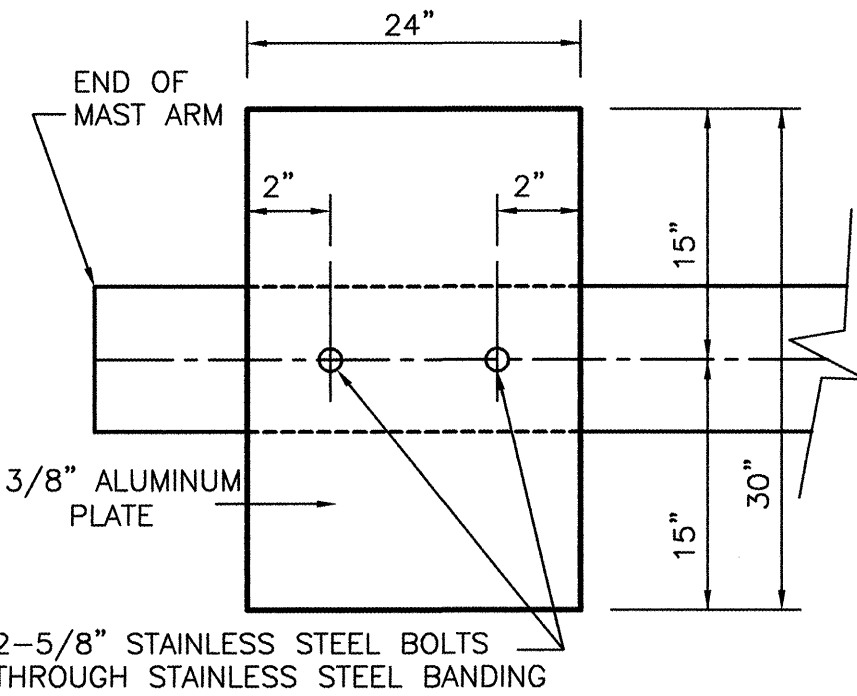
VIDEO DETECTION CAMERA SCHEDULE		
VIDEO CAMERA NO.	Ø	DETECTION ZONES.
1	2	EB-FAR & STBR
2	8	NB-PREEMPT, FAR, LT. & RT.
3	1 & 6	WB-STBR & LT.
4	6	WB FAR

NOTE:
SEE SHEET 5 FOR VIDEO
DETECTION CAMERA MOUNTING
DETAILS.

ELECTRICAL LOAD FOR INTERSECTION				
STREET NAME	COMPONENT	NUMBER	WATTAGE EACH	BURNTIME %
ILL. RTE. 17	RED	6	10	45
	YELLOW	6	19	5
	GREEN	6	14	50
	YELLOW ARROW-LT.	2	9	5
	GREEN ARROW-LT.	2	3.4	15
	YELLOW ARROW-RT.	2	9	5
	GREEN ARROW-RT.	2	3.4	15
	Ⓜ	2	7	87
I-57 N.B. RAMP	RED	2	10	62
	YELLOW	2	19	5
	GREEN	2	14	33
TRAFFIC SIGNAL CABINET	CONTROLLER	1	6	100

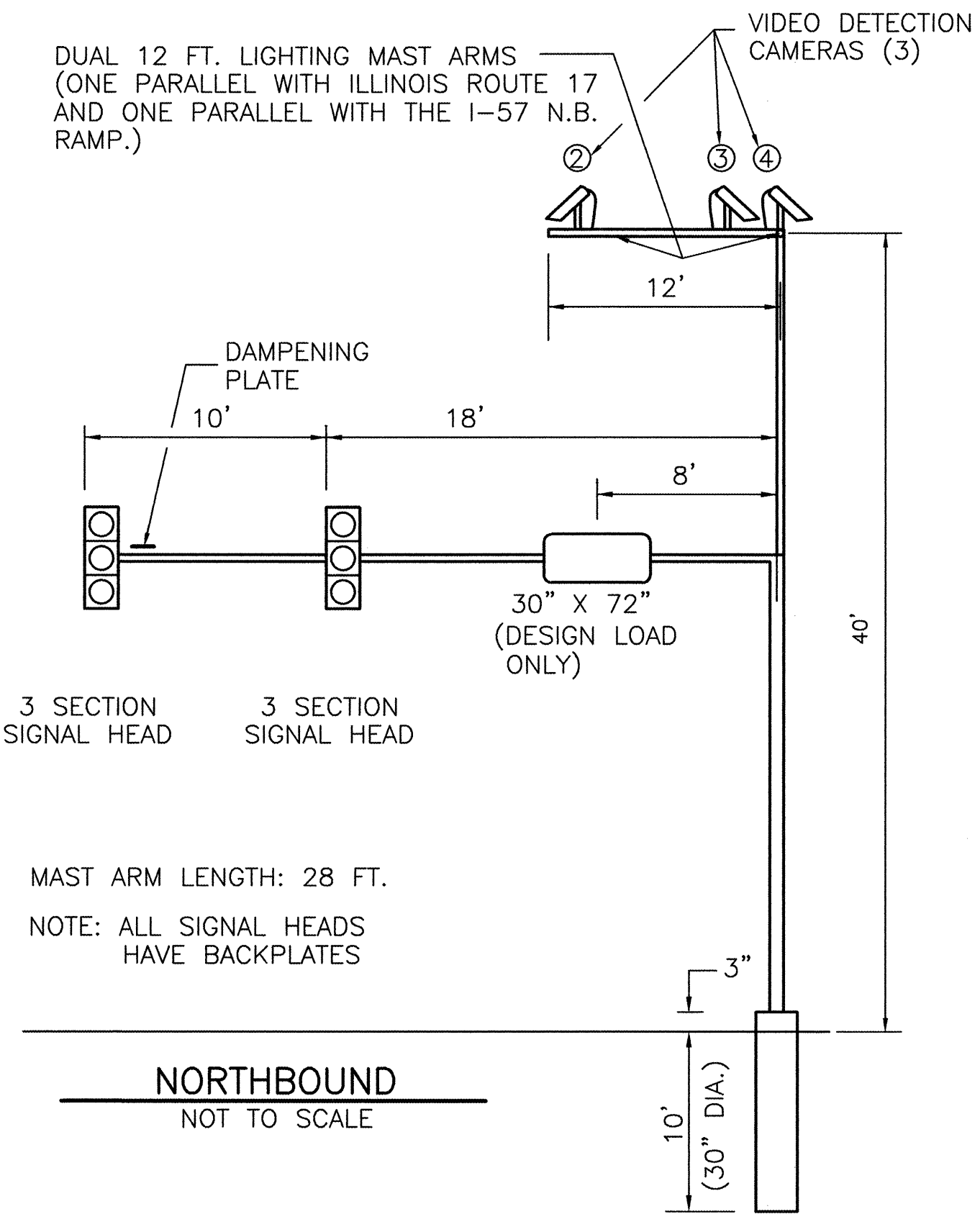
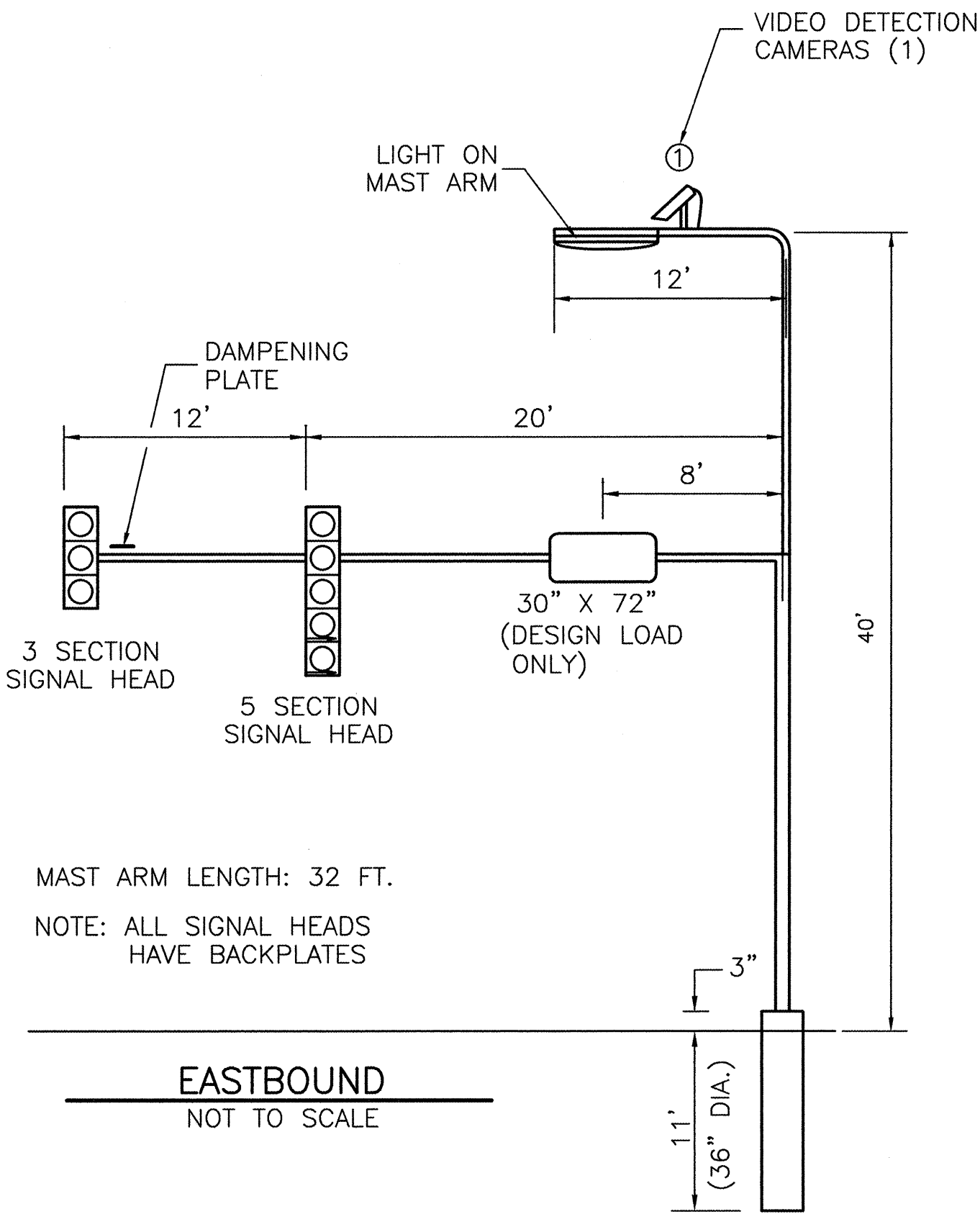
AGENCY RESPONSIBLE FOR ENERGY CHARGES: CITY OF KANKAKEE

NOTE:
DAMPENING DEVICE SHALL CONSIST OF A
24" X 30" TYPE 1, UNPAINTED ALUMINUM
SIGN STOCK MOUNTED HORIZONTALLY ON
TOP OF MAST ARM WITH THE 30" LENGTH
PERPENDICULAR TO THE ARM. COST OF THE
DAMPENING DEVICE IS INCLUDED IN THE
MAST ARM PAY ITEM.



2-5/8" STAINLESS STEEL BOLTS
THROUGH STAINLESS STEEL BANDING
NOTE:
MOUNT DAMPENING PLATE TO END OF
EACH TRAFFIC SIGNAL MAST ARM.

DAMPENING PLATE DETAIL - TOP VIEW



MAST ARM LOADING DIAGRAM

DESIGNED	J.L.S.
CHECKED	M.V.F.
DRAWN	J.M.M.
CHECKED	M.V.F.

TRAFFIC SIGNALS LEGEND

EXISTING	PROPOSED	
		SERVICE INSTALLATION
		CONTROLLER CABINET
		CONDUIT
		EXISTING CONDUIT TO BE USED
		SIGNAL HEAD WITH BACKPLATE
		STEEL MAST ARM WITH POST
		TRAFFIC SIGNAL POST
		HANDHOLE
		DOUBLE HANDHOLE
		SIGNAL HEAD, PEDESTRIAN
		DETECTOR LOOP
		SIGNAL HEAD REPLACEMENT, PEDESTRIAN
		SIGNAL HEAD REPLACEMENT
		LIGHT ON MAST ARM
		PEDESTRIAN PUSH-BUTTON
		VIDEO DETECTOR
		VIDEO DETECTION ZONE

CONSTRUCTION NOTES:

REPLACE ALL EXISTING SIGNALS HEADS AT THIS INTERSECTION.

REPLACE ALL DETECTION LOOPS WITH VIDEO DETECTION.

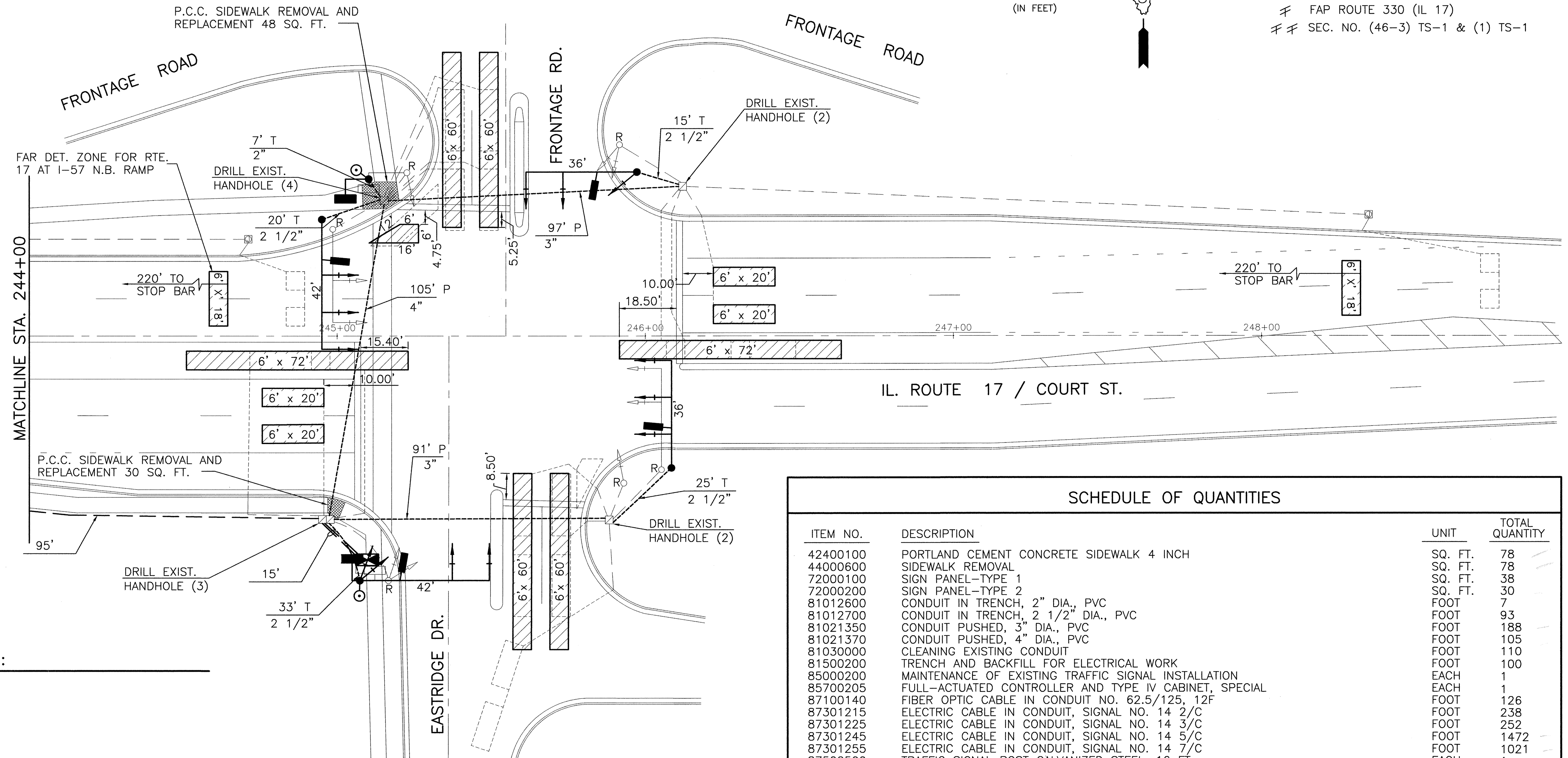
REMOVE ALL UNUSED LEAD-IN AND SIGNAL CABLE.

EXISTING INTERCONNECT CONDUIT SHALL BE UTILIZED TO RUN PROPOSED FIBER OPTIC CABLE TO IL RTE 17 AT I-57 N.B. RAMP (THIS WILL REQUIRE REMOVAL OF THE EXISTING INTERCONNECT CABLE AND CLEANING OF THE EXISTING CONDUIT).

REMOVAL OF THE FOLLOWING ITEMS SHALL BE PAID FOR AS REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT:

- 2 EACH - PEDESTRIAN SIGNAL HEAD, 1-FACE, BRACKET MOUNTED.
- 2 EACH - SIGNAL HEAD, 1-FACE, 3 SECTION, MAST ARM MOUNTED.
- 3 EACH - SIGNAL HEAD, 1-FACE, 3 SECTION, BRACKET MOUNTED.
- 1 EACH - SIGNAL HEAD, 1-FACE, 4 SECTION, MAST ARM MOUNTED.
- 1 EACH - SIGNAL HEAD, 1-FACE, 4 SECTION, BRACKET MOUNTED.
- 1 EACH - SIGNAL HEAD, 1-FACE, 5 SECTION, MAST ARM MOUNTED.
- 2 EACH - SIGNAL HEAD, 1-FACE, 5 SECTION, BRACKET MOUNTED.
- 4 EACH - EXISTING PEDESTRIAN PUSH-BUTTON
- 2 EACH - TRAFFIC SIGNAL POST
- 2 EACH - MAST ARM ASSEMBLY AND POLE

DESIGNED	J.L.S.
CHECKED	M.V.F.
DRAWN	J.M.M.
CHECKED	M.V.F.

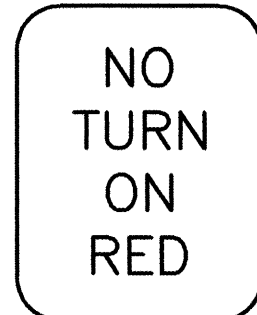
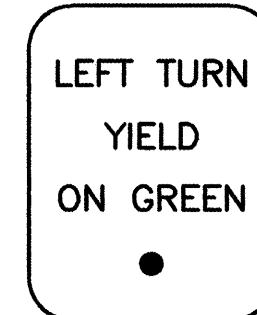


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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#	##	KANKAKEE	13	10

FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT

FAP ROUTE 330 (IL 17)
SEC. NO. (46-3) TS-1 & (1) TS-1



R10 - 12
24" X 30"

R10 - 11a
24" X 30"

TYPE A SHEETING REQUIRED
2 SIGNS REQUIRED = 5 SQ.FT. EACH
10 SQ.FT. TOTAL

TYPE A SHEETING REQUIRED
2 SIGNS REQUIRED = 5 SQ.FT. EACH
10 SQ.FT. TOTAL

THIS SIGN SHALL BE LOCATED 6" TO 12" TO THE RIGHT OF EACH 5 SECTION MAST ARM MOUNTED LEFT TURN SIGNAL AND DIRECTLY BELOW AND PARALLEL TO THE BACKPLATE OF EACH POST BRACKETED 5 SECTION LEFT TURN SIGNAL.

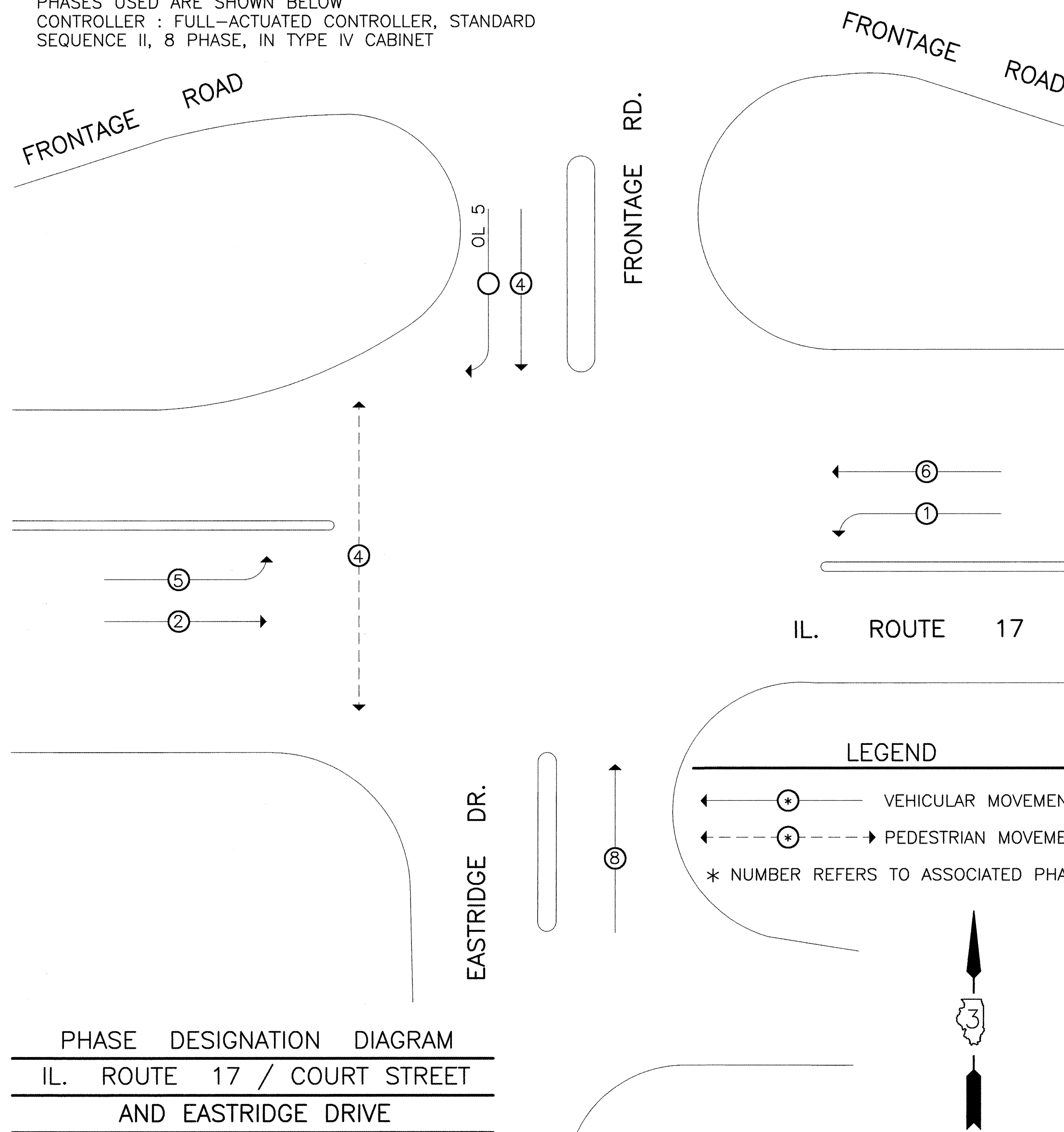
CABLE PLAN LEGEND

EXISTING	PROPOSED	
		DENOTES NUMBER OF CONDUCTORS (NEW) ALL CABLE NO. 14 EXCEPT AS INDICATED
		SERVICE INSTALLATION
		CONTROLLER CABINET
		SIGNAL FACE WITH BACKPLATE
		SIGNAL SECTION
		YELLOW TURN ARROW
		GREEN TURN ARROW
		DON'T WALK WALK
		PEDESTRIAN PUSH-BUTTON
		VIDEO DETECTOR

TRAFFIC SIGNAL PLAN
IL ROUTE 17 / COURT STREET
AND EASTRIDGE DRIVE
FAP ROUTE 330 (IL 17)
SEC. NO. (46-3) TS-1 & (1) TS-1
KANKAKEE COUNTY

CONTROLLER SEQUENCE

NAME OF INTERSECTION: IL ROUTE 17 AND EASTRIDGE DRIVE
REFERRING TO STANDARD 857001, THE VEHICULAR AND PEDESTRIAN PHASES USED ARE SHOWN BELOW
CONTROLLER : FULL-ACTUATED CONTROLLER, STANDARD SEQUENCE II, 8 PHASE, IN TYPE IV CABINET



PHASE DESIGNATION DIAGRAM
IL. ROUTE 17 / COURT STREET
AND EASTRIDGE DRIVE

CABLE NOTES

THE QUANTITY AND TYPE OF VIDEO DETECTION CABLE REQUIRED VARIES BY MANUFACTURER AND IS INCLUDED IN THE BID PRICE VIDEO VEHICLE DETECTION SYSTEM.

CABLE PLAN

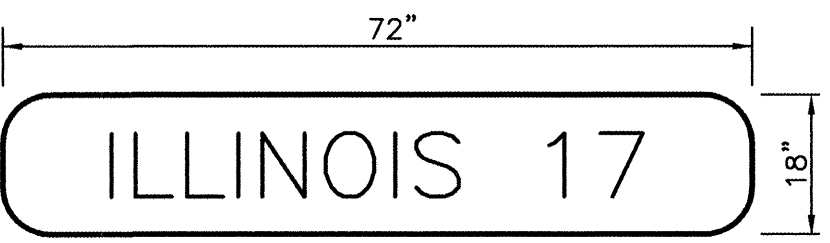
IL. ROUTE 17 / COURT STREET
AND EASTRIDGE DRIVE

DESIGNED	J.L.S.
CHECKED	M.V.F.
DRAWN	J.M.M.
CHECKED	M.V.F.

66447

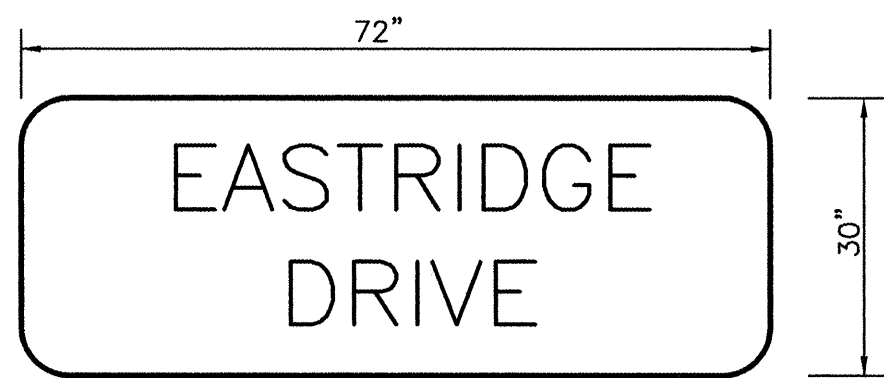
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#	##	KANKAKEE	13	11
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				

FAP ROUTE 330 (IL 17)
SEC. NO. (46-3) TS-1 & (1) TS-1



TYPE A SHEETING REQUIRED
8" D SERIES LETTERS
2 SIGN REQUIRED = 9.00 SQ. FT. EACH
= 18.00 SQ. FT. TOTAL

THIS STREET NAME SIGN SHALL BE PLACED ON THE
MAST ARMS PARALLEL WITH ILLINOIS ROUTE 17



TYPE A SHEETING REQUIRED
8" D SERIES LETTERS
2 SIGNS REQUIRED = 15.00 SQ. FT. EACH
= 30.00 SQ. FT. TOTAL

THIS STREET NAME SIGN SHALL BE PLACED ON THE
MAST ARMS PARALLEL WITH EASTRIDGE DR.

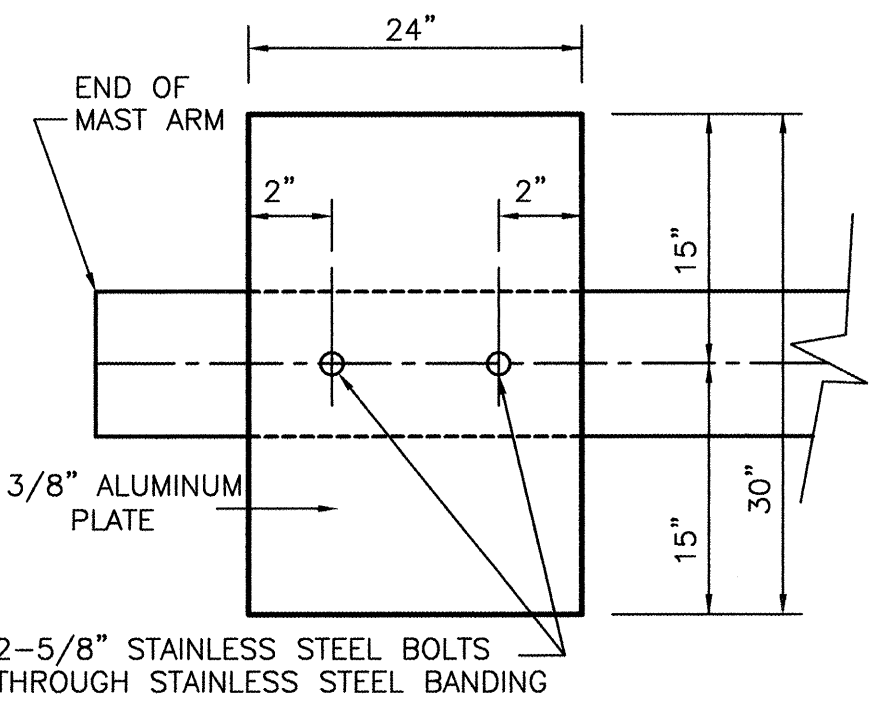
ELECTRICAL LOAD FOR INTERSECTION				
STREET NAME	COMPONENT	NUMBER	WATTAGE EACH	BURNTIME %
IL. RTE. 17	RED	8	10	45
	YELLOW	8	19	5
	GREEN	8	14	50
	YELLOW ARROW-LT.	4	9	5
	GREEN ARROW-LT.	4	3.4	15
	YELLOW ARROW-RT.	2	9	5
EASTRIDGE DRIVE	RED	5	10	62
	YELLOW	5	19	5
	GREEN	5	14	33
	YELLOW ARROW-RT.	2	9	5
	GREEN ARROW-RT.	2	3.4	10
		2	7	87
TRAFFIC SIGNAL CABINET		2	5	13
	CONTROLLER	1	6	100

AGENCY RESPONSIBLE FOR ENERGY CHARGES: CITY OF KANKAKEE

VIDEO DETECTION CAMERA SCHEDULE		
VIDEO CAMERA NO.	Ø	DETECTION ZONES.
1	8	NB - LT. & RT.
2	4	SB - LT. & RT.
3	2 & 5	EB - FAR, LT. & RT.
4	1 & 6	WB - FAR, LT. & RT.

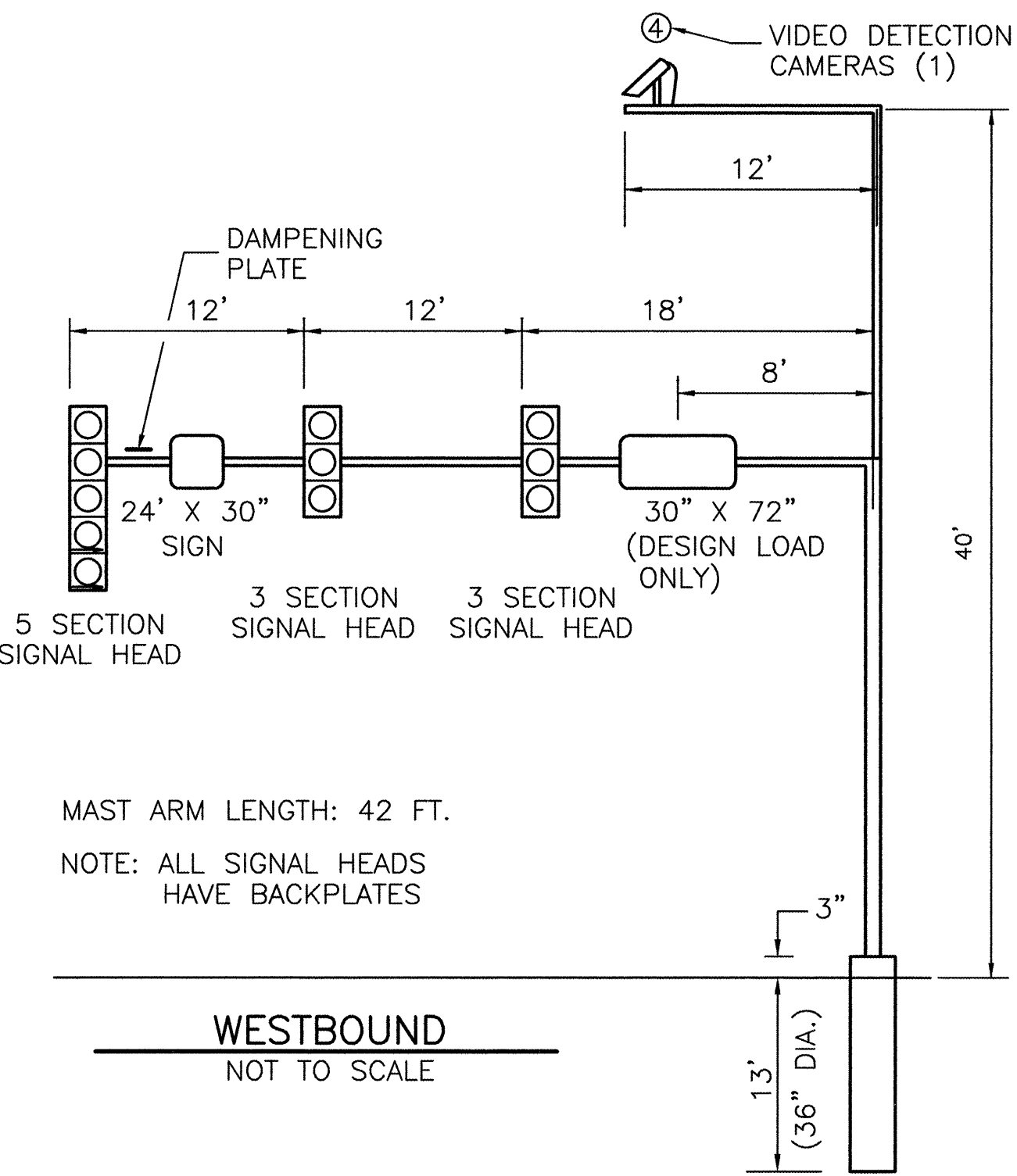
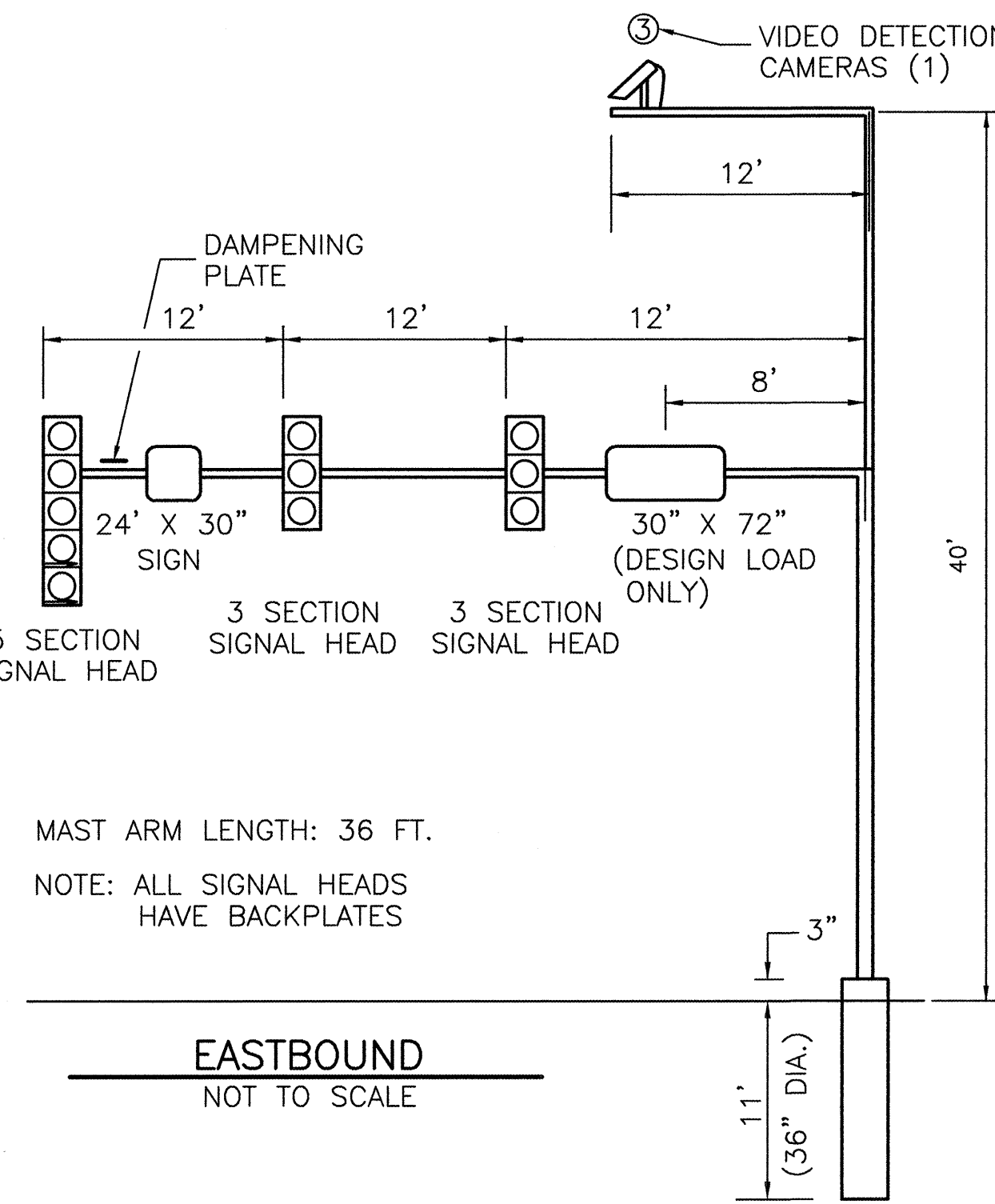
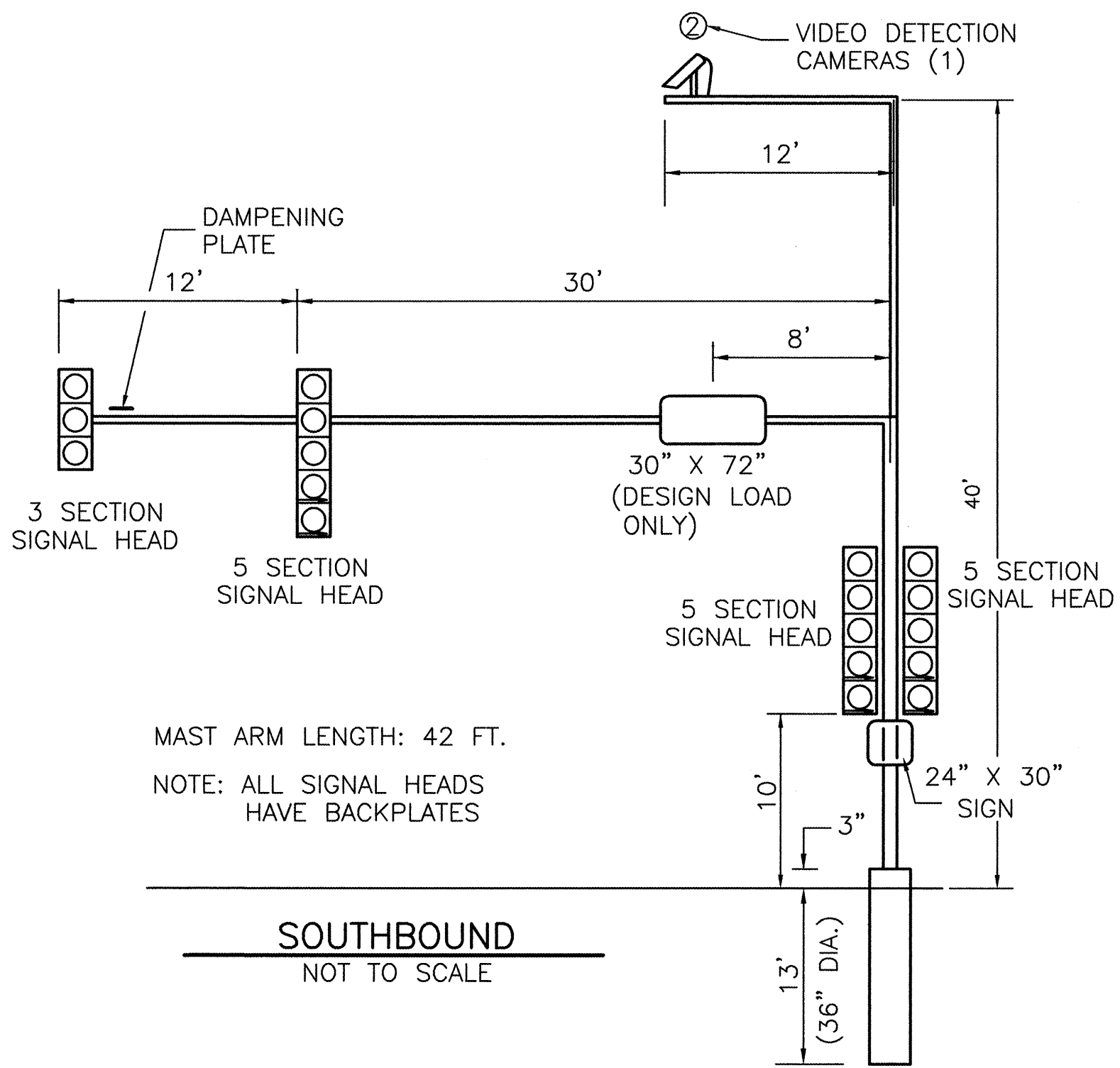
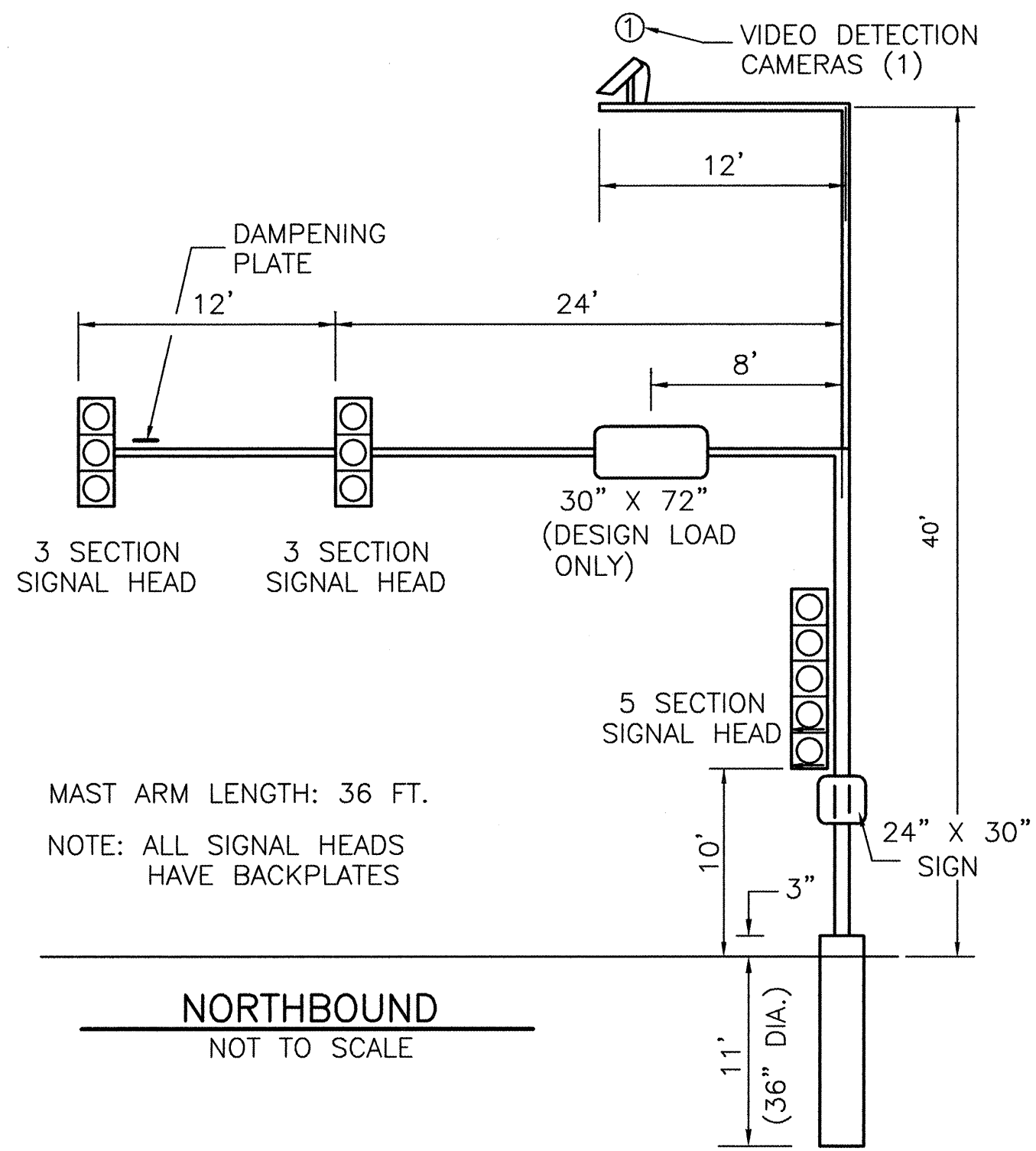
NOTE:
SEE SHEET 5 FOR VIDEO
DETECTION CAMERA MOUNTING
DETAILS.

NOTE:
DAMPENING DEVICE SHALL CONSIST OF A
24" X 30" TYPE 1, UNPAINTED ALUMINUM
SIGN STOCK MOUNTED HORIZONTALLY ON
TOP OF MAST ARM WITH THE 30" LENGTH
PERPENDICULAR TO THE ARM. COST OF THE
DAMPENING DEVICE IS INCLUDED IN THE
MAST ARM PAY ITEM.



2-5/8" STAINLESS STEEL BOLTS
THROUGH STAINLESS STEEL BANDING
NOTE:
MOUNT DAMPENING PLATE TO END OF
EACH TRAFFIC SIGNAL MAST ARM.

DAMPENING PLATE DETAIL - TOP VIEW



MAST ARM LOADING DIAGRAM

DESIGNED	J.L.S.
CHECKED	M.V.F.
DRAWN	J.M.M.
CHECKED	M.V.F.

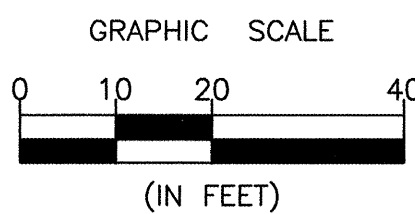
TRAFFIC SIGNAL DETAILS
IL ROUTE 17 / COURT STREET
AND EASTRIDGE DRIVE
FAP ROUTE 330 (IL 17)
SEC. NO. (46-3) TS-1 & (1) TS-1
KANKAKEE COUNTY

66447

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
≠	≠≠	KANKAKEE	13	12

FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT
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≠ FAP ROUTE 330 (IL 17)
≠≠ SEC. NO. (46-3) TS-1 & (1) TS-1



TRAFFIC SIGNALS LEGEND

EXISTING	PROPOSED	
		SERVICE INSTALLATION
		CONTROLLER CABINET
		CONDUIT
		EXISTING CONDUIT TO BE USED
		SIGNAL HEAD WITH BACKPLATE
		STEEL MAST ARM WITH POST
		TRAFFIC SIGNAL POST
		HANDHOLE
		DOUBLE HANDHOLE
		SIGNAL HEAD, PEDESTRIAN
		DETECTOR LOOP
		SIGNAL HEAD REPLACEMENT, PEDESTRIAN
		SIGNAL HEAD REPLACEMENT
		LIGHT ON MAST ARM

SCHEDULE OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITY
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	10
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
X0323370	TRAFFIC SIGNAL BATTERY BACKUP	EACH	1
X8801310	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	6
X8801395	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
X8801400	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	2

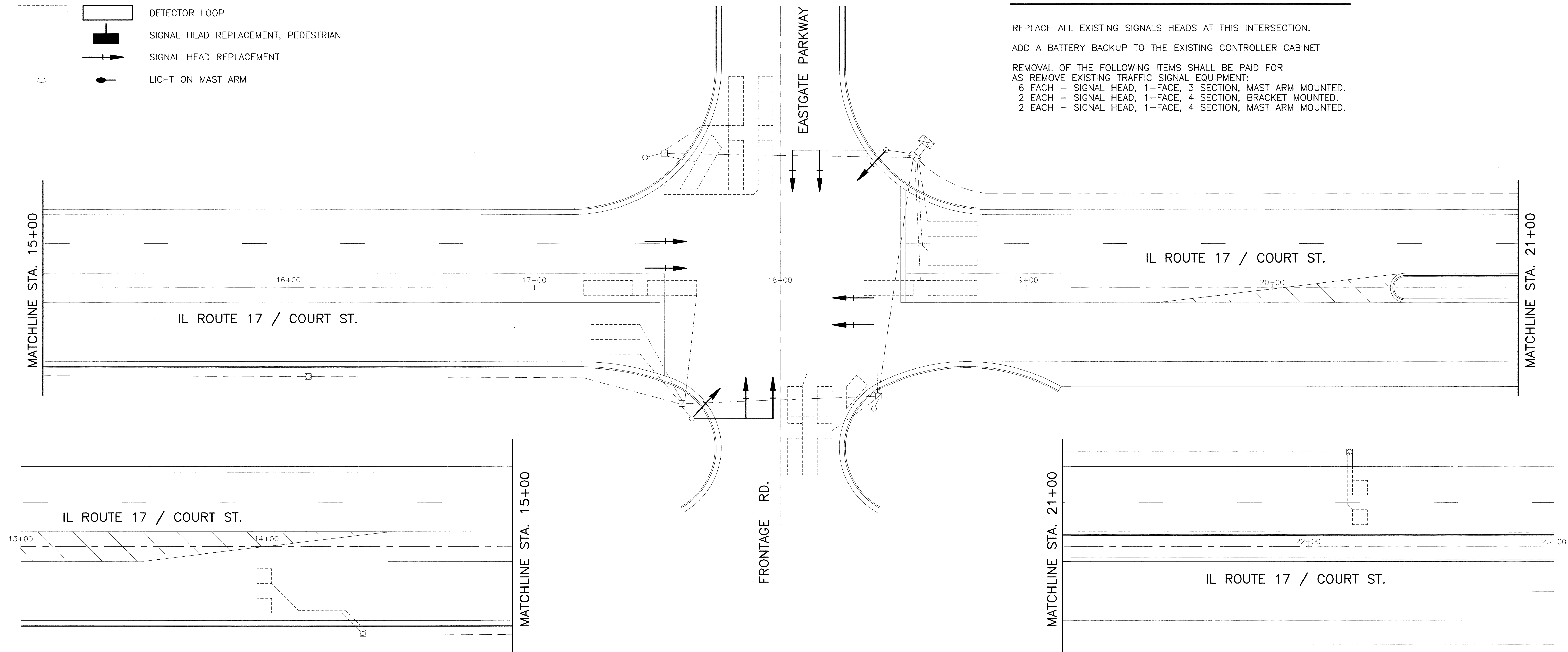
CONSTRUCTION NOTES:

REPLACE ALL EXISTING SIGNALS HEADS AT THIS INTERSECTION.

ADD A BATTERY BACKUP TO THE EXISTING CONTROLLER CABINET

REMOVAL OF THE FOLLOWING ITEMS SHALL BE PAID FOR AS REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT:

- 6 EACH - SIGNAL HEAD, 1-FACE, 3 SECTION, MAST ARM MOUNTED.
- 2 EACH - SIGNAL HEAD, 1-FACE, 4 SECTION, BRACKET MOUNTED.
- 2 EACH - SIGNAL HEAD, 1-FACE, 4 SECTION, MAST ARM MOUNTED.



DESIGNED	J.L.S.
CHECKED	M.V.F.
DRAWN	J.M.M.
CHECKED	M.V.F.

SIGNAL PLAN
IL ROUTE 17 / COURT STREET AND EASTGATE PARKWAY

TRAFFIC SIGNAL PLAN
IL ROUTE 17 / COURT STREET
AND EASTGATE PARKWAY
FAP ROUTE 330 (IL 17)
SEC. NO. (46-3) TS-1 & (1) TS-1
KANKAKEE COUNTY

66447

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#	#	KANKAKEE	13	13

FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT

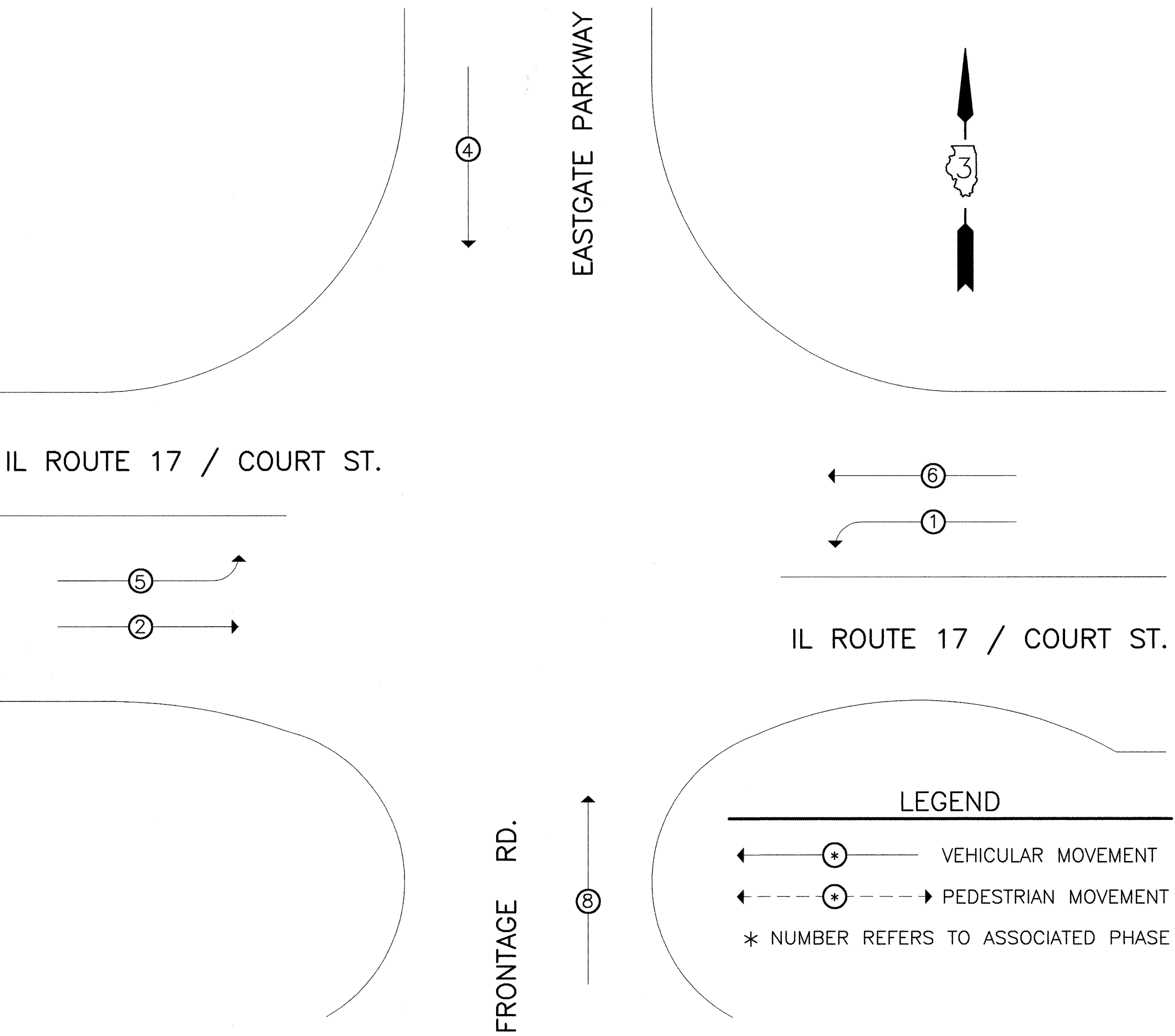
FAP ROUTE 330 (IL 17)
SEC. NO. (46-3) TS-1 & (1) TS-1

CABLE PLAN LEGEND

EXISTING	PROPOSED	
		DENOTES NUMBER OF CONDUCTORS (NEW) ALL CABLE NO. 14 EXCEPT AS INDICATED
		DETECTOR LOOP IDENTIFICATION
		SERVICE INSTALLATION
		CONTROLLER CABINET
		SIGNAL FACE WITH BACKPLATE
		SIGNAL SECTION
		YELLOW TURN ARROW
		GREEN TURN ARROW
		DETECTOR LOOP

CONTROLLER SEQUENCE

NAME OF INTERSECTION: IL ROUTE 17 / COURT ST. AND EASTGATE PARKWAY
REFERRING TO STANDARD 857001, THE VEHICULAR AND PEDESTRIAN
PHASES USED ARE SHOWN BELOW
CONTROLLER : FULL-ACTUATED CONTROLLER, STANDARD
SEQUENCE II, 8 PHASE, IN TYPE IV CABINET



PHASE DESIGNATION DIAGRAM

IL. ROUTE 17 / COURT ST.
AND EASTGATE PARKWAY

CABLE PLAN
IL. ROUTE 17 / COURT ST.
AND EASTGATE PARKWAY

ELECTRICAL LOAD FOR INTERSECTION

STREET NAME	COMPONENT	NUMBER	WATTAGE EACH	BURNTIME %
ILL. RTE. 17	RED	6	10	45
	YELLOW	6	19	5
	GREEN	6	14	50
	YELLOW ARROW-LT.	4	9	5
	GREEN ARROW-LT.	4	3.4	15
EASTGATE PARKWAY	RED	4	10	62
	YELLOW	4	19	5
	GREEN	4	14	33
		2	7	87
		2	5	13
TRAFFIC SIGNAL CABINET	CONTROLLER	1	6	100
	VEHICLE DETECTORS	12	4	100

AGENCY RESPONSIBLE FOR ENERGY CHARGES: CITY OF KANKAKEE

DESIGNED	J.L.S.
CHECKED	M.V.F.
DRAWN	J.M.M.
CHECKED	M.V.F.

CABLE PLAN
IL ROUTE 17 / COURT STREET
AND EASTGATE PARKWAY
FAP ROUTE 330 (IL 17)
SEC. NO. (46-3) TS-1 & (1) TS-1
KANKAKEE COUNTY