CONTRACT NO. 63520

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00379-00-TL	KANE	36	1

35+11 = 46

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

FAP 0336 RANDALL ROAD AND FAU 4066 HUNTLEY ROAD

CORPORATE BOULEVARD TO HUNTLEY ROAD / SQUARE BARN ROAD TO SLEEPY HOLLOW ROAD

TRAFFIC SIGNALS / INTERCONNECT
SECTION 08-00379-00-TL
CMM-9003(147)
KANE COUNTY

PROJECT LOCATED IN VILLAGE OF CARPENTERSVILLE

DESIGN DESIGNATION
TRAFFIC VOLUME =
- ADT 14000 WEST ON HUNTLEY ROAD
- ADT 13200 EAST ON HUNTLEY ROAD
- ADT 43200 NORTH ON RANDALL ROAD
- ADT 44800 SOUTH ON RANDALL ROAD

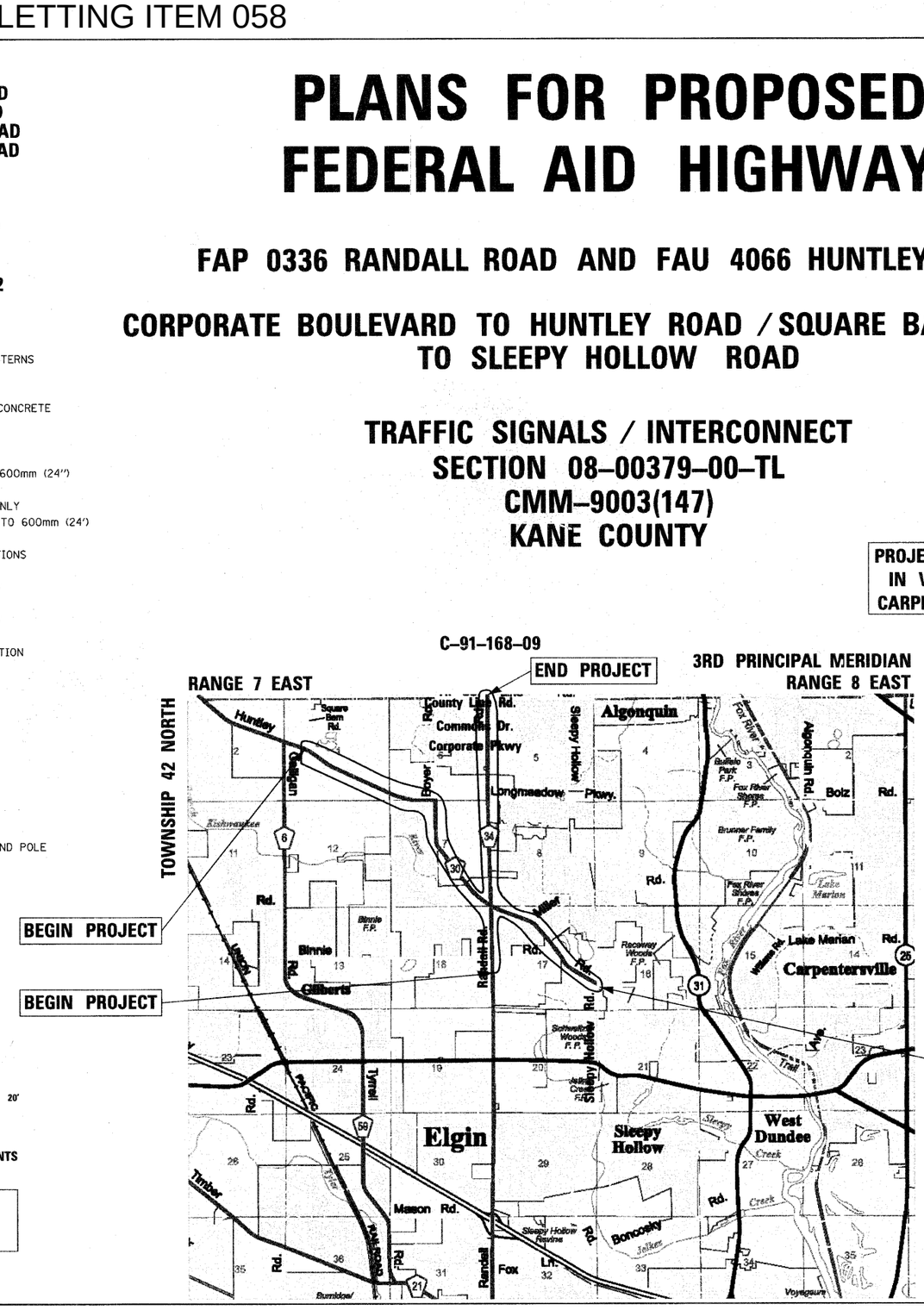
POSTED SPEED LIMIT =
- 50 MPH WEST ON HUNTLEY ROAD
- 40 MPH EAST ON HUNTLEY ROAD
- 50 MPH NORTH ON RANDALL ROAD
- 50 MPH SOUTH ON RANDALL ROAD

FOR INDEX OF SHEETS, SEE SHEET NO. 2

HIGHWAY STANDARDS

STD. No.	DESCRIPTION
000001-06	STANDARD SYMBOLS, ABBREVIATION AND PATTERNS
001006	DECIMAL OF AN INCH AND A FOOT
424001-05	CURB RAMPS FOR SIDEWALKS
606001-04	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606301-04	P.C. CONCRETE ISLANDS AND MEDIANS
606306-03	CORRUGATED P.C. CONCRETE MEDIAN
701006-03	OFF-RD OPERATIONS, 2L, 2W, 4.5m (15') TO 600mm (24") FROM PAVEMENT EDGE
701011-02	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701101-02	OFF-RD OPERATIONS, MULTILANE, 4.5m (15') TO 600mm (24') FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701601-07	URBAN LANE CLOSURE, MULTILANE 1W OR 2W NON-TRAVERSABLE MEDIAN
701606-07	URBAN LANE CLOSURE, MULTILANE 1W OR 2W MOUNTABLE MEDIAN
701701-07	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-04	LANE CLOSURES MULTILANE, 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
701901-01	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
814001-02	HANDHOLES
814006-02	DOUBLE HANDHOLES
857001-01	STANDARDS PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
862001-01	UNINTERRUPTABLE POWER SUPPLY (UPS)
877001-04	STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
877011-04	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
878001-08	CONCRETE FOUNDATION DETAILS
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS

C-91-168-09



N
1
N.T.S.

LOCATION MAP

SCALE: NOT TO SCALE
RUTLAND AND DUNDEE TOWNSHIPS
GROSS LENGTH = 34,017.39 FEET (6.44 MILES)
NET LENGTH = 34,017.39 FEET (6.44 MILES)

LOCATION OF SECTION INDICATED THUS: –

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

100' 200' 300' — 1"= 100'
10' 20' 30' — 1"= 10'
50' 100' — 1"= 50'
50' 100' — 1"= 40'
50' 100' — 1"= 30'
50' 100' — 1"= 20'

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

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

CONTRACT NO. 63520

PROGRAM AND OFFICE ENGINEER: CAHRLES F. RIDDLE, P.E. (847) 705-4406 SCHAUMBURG, IL

MATTHEW A. GAUNTT
062-060146
REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS

P.E. SEAL
H.W. LOCHNER, INC.
20 NORTH WACKER DRIVE, SUITE 1200
CHICAGO, IL 60606
(312) 372-3011 FAX: (312) 372-5974

Matthew A. Gauntt — 11/30/2011 — 11/19/2010
SIGNED — EXPIRES — DATE

AGENCY RESPONSIBLE FOR LETTING

APPROVED October 18 20 10
County Engineer
KANE CO. LOCAL AGENCY, POSITION

PASSED November 5 20 10
DISTRICT (#) ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW November 8, 20 10
DEPUTY DIRECTOR OF HIGHWAYS, REGION #) ENGINEER

INDEX OF SHEETS

GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE DETAILS, PLANS, AND THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS, AND THE LATEST EDITION OF THE FOLLOWING STATE OF ILLINOIS SPECIFICATIONS: "THE STANDARD SPECIFICATIONS FOR THE ROAD AND BRIDGE CONSTRUCTION" (REFERRED TO AS THE STANDARD SPECIFICATIONS), THE SUPPLEMENTAL STANDARD SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS, THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR TRAFFIC CONTROL ITEMS.

2. THE LOCATIONS OF UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND THE ENGINEER DOES NOT GUARANTEE THEIR ACCURACY. THE CONTRACTOR SHALL HAVE THE RESPECTIVE UTILITY COMPANIES FIELD LOCATE ALL THEIR FACILITIES PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL ALSO VERIFY THE DEPTHS OF THE EXISTING UTILITIES IF NECESSARY. ANY RELOCATION OR LOWERING OF THE UTILITIES SHALL BE COORDINATED BY THE CONTRACTOR.

3. THE CONTRACTOR SHALL CONTACT JULIE AT LEAST 48 HOURS PRIOR TO EXCAVATION TO DETERMINE WHICH UTILITIES ARE IN THE AREA.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND AND SURFACE UTILITIES INCLUDING THOSE THAT MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE ENGINEER.

5. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL SECTION OR SUBSECTION MONUMENTS OR PROPERTY OR REFERENCE MARKERS UNTIL THE OWNERS, HIS/HER AGENTS OR AN AUTHORIZED SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATIONS.

6. EXISTING ASPHALT SIDEWALK TO REMAIN IN PLACE SHALL BE SAW CUT FULL DEPTH TO PROVIDE A NEAT VERTICAL FACE BETWEEN THE PROPOSED AND EXISTING AND SHALL BE INCLUDED IN THE PRICE OF SIDEWALK PAY ITEMS.

7. DURING CONSTRUCTION, THE CONTRACTOR SHALL INSURE POSITIVE SITE DRAINAGE AT THE CONCLUSION OF EACH DAY. ANY LOOSE MATERIAL DEPOSITED ON THE FLOW LINE OF GUTTERS, DRAINAGE STRUCTURES, DITCHES, ETC. SUCH THAT THE NATURAL FLOW LINE OF THE WATER IS OBSTRUCTED, SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY BY THE RESPONSIBLE PARTY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FROM DIRT AND DEBRIS. THIS WORK SHALL BE INCLUDED IN THE COST OF CONDUIT IN TRENCH, CONDUIT PUSHED OR CONCRETE FOUNDATION.

8. SEEDING SHALL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION. LOCATIONS TO BE SEEDED WILL BE DETERMINED BY THE ENGINEER.

9. ONLY THOSE TREES DESIGNATED BY THE ENGINEER OR SHOWN ON THE PLANS SHALL BE REMOVED. ANY DAMAGE TO EXISTING TREES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

10. TEMPORARY ROADWAY AND SIDEWALK CLOSURES WILL BE PERMITTED ONLY WITH THE ENGINEER'S APPROVAL. REQUESTS FOR CLOSURES MUST BE SUBMITTED TO THE ENGINEER AT LEAST 72 HOURS BEFORE THE CLOSURE. TRAFFIC AND PEDESTRIAN CONTROL SHALL BE IN ACCORDANCE WITH IDOT STANDARDS.

11. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL SAFETY REGULATIONS AS WELL AS THOSE SPECIFIED IN THE CONTRACT PLANS AND SPECIFICATIONS.

12. THE CONTRACTOR SHALL COMPLETE CLEAN UP AND RESTORATION OF THE ENTIRE PROJECT AREA AND APPROVED BY THE ENGINEER WITHIN 14 DAYS OF CONTRACT COMPLETION DATE.

13. EXISTING CONDITIONS WERE OBTAINED FROM THE BEST AVAILABLE INFORMATION. INFORMATION SHOWN IS NOT GUARANTEED ALL-INCLUSIVE OR CORRECT. THE CONTRACTOR IS TO VERIFY THE EXISTING CONDITIONS PRIOR TO CONSTRUCTION. THIS INCLUDES VERIFICATION OF EXISTING RIGHT OF WAY.

14. UPON COMPLETION OF THE PROJECT AND ACCEPTANCE BY THE ENGINEER, THE CONTRACTOR WILL SUBMIT ONE SET OF AS-BUILT DRAWINGS TO THE ENGINEER AS INCLUDED IN THE COST OF MOBILIZATION.

15. THE REMOVAL OF ALL EXISTING TRAFFIC SIGNS DESIGNATED ON THE PLANS AS WELL AS THE INSTALLATION OF ALL PROPOSED SIGNS SHALL BE PERFORMED BY KDOT. RAY JOHNSON (630) 406-7356. THE CONTRACTOR SHALL CONTACT THE ENGINEER AND KDOT A MINIMUM OF 48 HOURS PRIOR TO THE DESIRED DATE FOR THE REMOVAL/INSTALLATION OF ALL SIGNS.

16. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AS DESIGNATED ON THE PLANS. THE SALVAGE VALUE SHALL BE CREDITED TO THE CONTRACTOR THROUGH THE CONTRACTOR'S BID OF THE CONTRACT UNIT PRICES.

17. THE CONTRACTOR SHALL ENSURE THAT MAILBOXES ALONG THE ROUTE ARE NOT DAMAGED DUE TO CONSTRUCTION ACTIVITIES. MAILBOXES THAT ARE DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES SHALL BE REPLACED AT NO EXPENSE.

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -	KANE COUNTY DIVISION OF TRANSPORTATION	INDEX OF SHEETS
		DRAWN -	REVISED -		
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -		SCALE: 1"=20' | SHEET NO. 2 OF 36 SHEETS | STA. | TO STA.
	PLOT DATE = $DATE$	DATE -	REVISED -		

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00379-00-TL	KANE	36	2
		CONTRACT NO. 63520		
	ILLINOIS	FED. AID PROJECT CMM-9003(147)		

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	SIGNAL QUANTITIES ALONG HUNTLEY ROAD: SQUARE BARN ROAD	BOYER ROAD	ACCESS ROAD	MILLER ROAD	SLEEPY HOLLOW ROAD	SIGNAL QUANTITIES ALONG RANDALL ROAD: BINNIE ROAD	MILLER ROAD	HUNTLEY ROAD	CORPORATE PARKWAY	COMMONS DRIVE	COUNTY LINE ROAD	INTERCONNECT QUANTITIES: HUNTLEY ROAD	RANDALL ROAD
				CONSTRUCTION CODE - 0021												
42400300	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH	SQ FT	384					384								
42400800	DETECTABLE WARNINGS	SQ FT	120					120								
67100100	MOBILIZATION	L SUM	1													
70102620	TRAFFIC CONTROL AND PROTECTION,STANDARD 701501	L SUM	1													
70102625	TRAFFIC CONTROL AND PROTECTION,STANDARD 701606	L SUM	1													
70102630	TRAFFIC CONTROL AND PROTECTION,STANDARD 701601	L SUM	1													
70102635	TRAFFIC CONTROL AND PROTECTION,STANDARD 701701	L SUM	1													
70102640	TRAFFIC CONTROL AND PROTECTION,STANDARD 701801	L SUM	1													
78300100	PAVEMENT MARKING REMOVAL	SQ FT	85					85								
81000600	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	25120	702				663							17339	6416
81000700	CONDUIT IN TRENCH, 2 1/2" DIA.,GALVANIZED STEEL	FOOT	105	12				93								
81000800	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	369	241				128								
81001000	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	199	96				103								
81001100	CONDUIT IN TRENCH, 5" DIA., GALVANIZED STEEL	FOOT	11					11								
81018500	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	2976	102											1732	1142
81018900	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	267	130				137								
81019000	CONDUIT PUSHED, 5" DIA., GALVANIZED STEEL	FOOT	58					58								
81400100	HANDHOLE	EACH	63	5				5							36	17
81400300	DOUBLE HANDHOLE	EACH	2	1				1								
81702450	ELECTRIC CABLE IN CONDUIT, 600V(XLP-TYPE USE) 3-1/C NO. 10	FOOT	1221	400				821								
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	25734	1036				943							17339	6416
82103310	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, PHOTO-CELL CONTROL, 310 WATT	EACH	6	2				4								
85000400	MAINTENANCE OF TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	2	1				1								
85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	2	1				1								
85700500	FULL-ACTUATED CONTROLLER IN EXISTINGCABINET	EACH	7			1			1	1	1	1	1	1		
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1254					1254								
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1942	326				1616								
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3961	1131				2830								
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	726	726												
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	4271	1430				777							914	1150
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	198	122				76								
87501000	TRAFFIC SIGNAL POST, 14 FT.	EACH	1	1												
87501200	TRAFFIC SIGNAL POST, 16 FT.	EACH	4					4								
87700130	STEEL MAST ARM ASSEMBLY AND POLE, 18 FT.	EACH	1	1												
87702860	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 26 FT.	EACH	1					1								
87702870	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 28 FT.	EACH	1	1												
87702880	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 30 FT.	EACH	1					1								
87702890	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 32 FT.	EACH	1					1								
87702900	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 34 FT.	EACH	1	1												
87702910	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 36 FT.	EACH	1					1								
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	24	8				16								
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	8	4				4								
87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	10	10												
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	60	20				40								
87900200	DRILL EXISTING HANDHOLE	EACH	3												2	1
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION,MAST-ARM MOUNTED	EACH	12	4				8								
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION,BRACKET MOUNTED	EACH	10	2				8								

FILE NAME = $-ILEL$

USER NAME = $USER$ | PLOT SCALE = $SCALE$ | PLOT DATE = $DATE$

DESIGNED - | DRAWN - | CHECKED - | DATE -

REVISED - | REVISED - | REVISED - | REVISED -

KANE COUNTY
DIVISION OF TRANSPORTATION

SUMMARY OF QUANTITES

SCALE: N/A | SHEET NO. 3 OF 36 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00379-00-TL	KANE	36	3
		CONTRACT NO. 63520		
	ILLINOIS	FED. AID PROJECT CMM-9003(147)		

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	SIGNAL QUANTITIES ALONG HUNTLEY ROAD: SQUARE BARN ROAD	BOYER ROAD	ACCESS ROAD	MILLER ROAD	SLEEPY HOLLOW ROAD	SIGNAL QUANTITIES ALONG RANDALL ROAD: BINNIE ROAD	MILLER ROAD	HUNTLEY ROAD	CORPORATE PARKWAY	COMMONS DRIVE	COUNTY LINE ROAD	INTERCONNECT QUANTITIES: HUNTLEY ROAD	RANDALL ROAD
				CONSTRUCTION CODE - 0021												
88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE,BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8					8								
88200110	TRAFFIC SIGNAL BACKPLATE, LOUVERED	EACH	26	10				16								
88500100	INDUCTIVE LOOP DETECTOR	EACH	3	2				1								
88600100	DETECTOR LOOP, TYPE I	FOOT	336	96				48							96	96
88700200	LIGHT DETECTOR	EACH	7	3				4								
88700300	LIGHT DETECTOR AMPLIFIER	EACH	2	1				1								
88800100	PEDESTRIAN PUSH-BUTTON	EACH	8					8								
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	22		1	3	2		2	2	3	3	3	3		
89502500	REMOVE TEMPORARY TRAFFIC SIGNALINSTALLATION	EACH	2	1				1								
X0322283	VIDEO SURVEILLANCE SYSTEM COMPLETE	EACH	4	1				1	1		1					
X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	631	326				305								
X0325476	RADAR VEHICLE DETECTION SYSTEM	EACH	1	1												
X0325961	TRACER CABLE NO. 14 1/C	FOOT	26264												18018	8246
X0326452	VIDEO SYSTEM DETECTION PROCESSOR	EACH	4			1	1				1			1		
X7800630	URETHANE PAVEMENT MARKING - LINE 6"	FOOT	470					470								
X7800650	URETHANE PAVEMENT MARKING - LINE 12"	FOOT	73					73								
X7800680	URETHANE PAVEMENT MARKING - LINE 24"	FOOT	94					94								
X8050015	SERVICE INSTALLATION - POLE MOUNTED	EACH	3			1	1			1						
X8620020	UNINTERRUPTIBLE POWER SUPPLY	EACH	9	1		1		1	1	1	1	1	1	1		
X8710024	FIBER OPTIC CABLE IN CONDUIT. NO. 62.5/125, MM12F SM24F	FOOT	27915												19675	8240
X8730027	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	1431	671				760								
XX007950	FIBER OPTIC PIGTAIL	EACH	88												44	44
XX007953	NETWORK CONFIGURATION	L SUM	1												0.5	0.5
XX007994	FIBER OPTIC SPLICE	EACH	12												4	8
XX008253	VIDEO ENCODER	EACH	2									1	1			
Z0033046	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	11	1	1	1	1	1	1	1	1	1	1	1		
Z0033054	CONFIRMATION BEACON	EACH	20						4	4		4	4	4		
Z0033072	VIDEO VEHICLE DETECTION SYSTEM	EACH	2									1	1			
△ Z0076600	TRAINEES	HOUR	500													
XX008455	ETHERNET SWITCH, TYPE 1	EACH	10	1	1	1	1	1	1	1		1	1	1		
XX008454	ETHERNET SWITCH, TYPE 2	EACH	1								1					
X8710029	FIBER OPTIC 24F SM	FOOT	2629													2629
XX007739	Wireless VEHICLE DETECTION SYSTEM - COMPLETE	EACH	1					1								
XX008462	MALFUNCTION MANAGEMENT UNIT	EACH	11	1	1	1	1	1	1	1	1	1	1	1		
X0326714	MODIFY EXISTING CONTROLLER CABINET SPECIAL	EACH	2		1		1									
XX008459	VIDEO CAMERA INTERFACE MODULE	EACH	4		1		1					1		1		
XX008479	VIDEO ENCODER, TYPE 1	EACH	4		1		1					1		1		

△ = 0042

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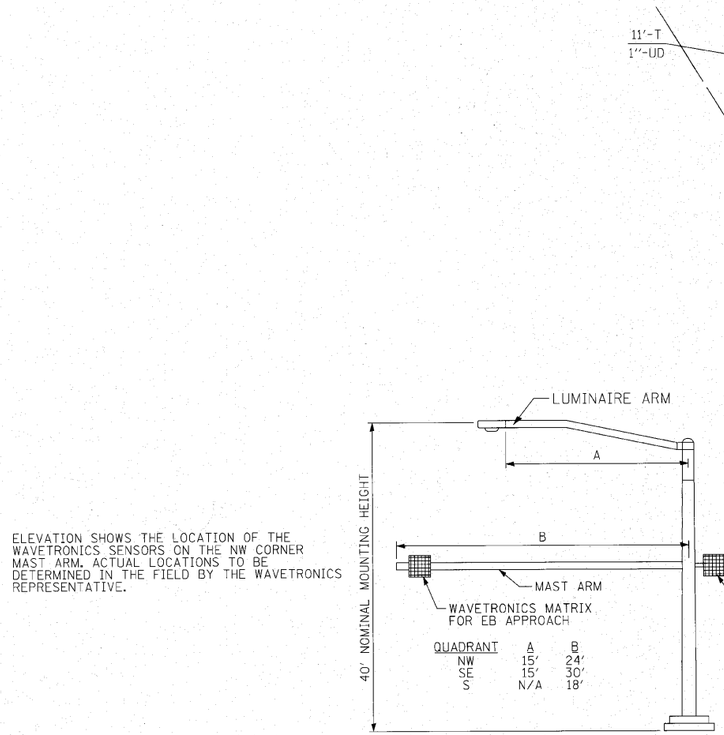
		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = $DATE$	DATE	REVISED -

KANE COUNTY
DIVISION OF TRANSPORTATION

SUMMARY OF QUANTITES

SCALE: N/A | SHEET NO. 4 OF 36 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00379-00-TL	KANE	36	4
		CONTRACT NO. 63520		
	ILLINOIS	FED. AID PROJECT CMM-9003(147)		



ELEVATION SHOWS THE LOCATION OF THE WAVETRONICS SENSORS ON THE NW CORNER MAST ARM. ACTUAL LOCATIONS TO BE DETERMINED IN THE FIELD BY THE WAVETRONICS REPRESENTATIVE.

QUADRANT	A	B
NW	15'	24'
SE	15'	30'
S	N/A	18'

COMBINATION MAST ARM ASSEMBLY AND POLE DIMENSIONS
SQUARE BARN ROAD & HUNTLEY ROAD
(NOT TO SCALE)

ITEM	LOCATION
24' MAST ARM	18+09.85, 40.43' LT
30' MAST ARM	19+28.59, 31.26' LT
18' MAST ARM	18+97.71, 29.44' RT
16' POST	18+28.59, 42.12' RT
14' POST	18+20.67, 23.97' RT
HANDHOLE	19+39.90, 56.08' LT
HANDHOLE	18+07.44, 23.79' RT
HANDHOLE	15+59.97, 19.83' RT
HANDHOLE	21+85.67, 33.05' LT
HANDHOLE	33+21.84, 19.85' LT
DOUBLE HANDHOLE	18+15.11, 60.67' LT
CONTROLLER	30+92.92, 48.78' LT

NOTES:
1. CONTRACTOR SHALL VERIFY THE MAST ARM FOUNDATION LOCATIONS PRIOR TO FABRICATING THE MAST ARMS. IF EXISTING UTILITY CONFLICTS PROHIBIT THE PLACEMENT OF THE MAST ARMS AS SHOWN, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY. NO ADDITIONAL COMPENSATION WILL BE APPROVED FOR THIS INVESTIGATION.
2. SET FOUNDATION FLUSH TO GROUND. 18' POST HAS BEEN SUBSTITUTED FOR 16' POST TO ALLOW FOR THE DITCH GRADE.

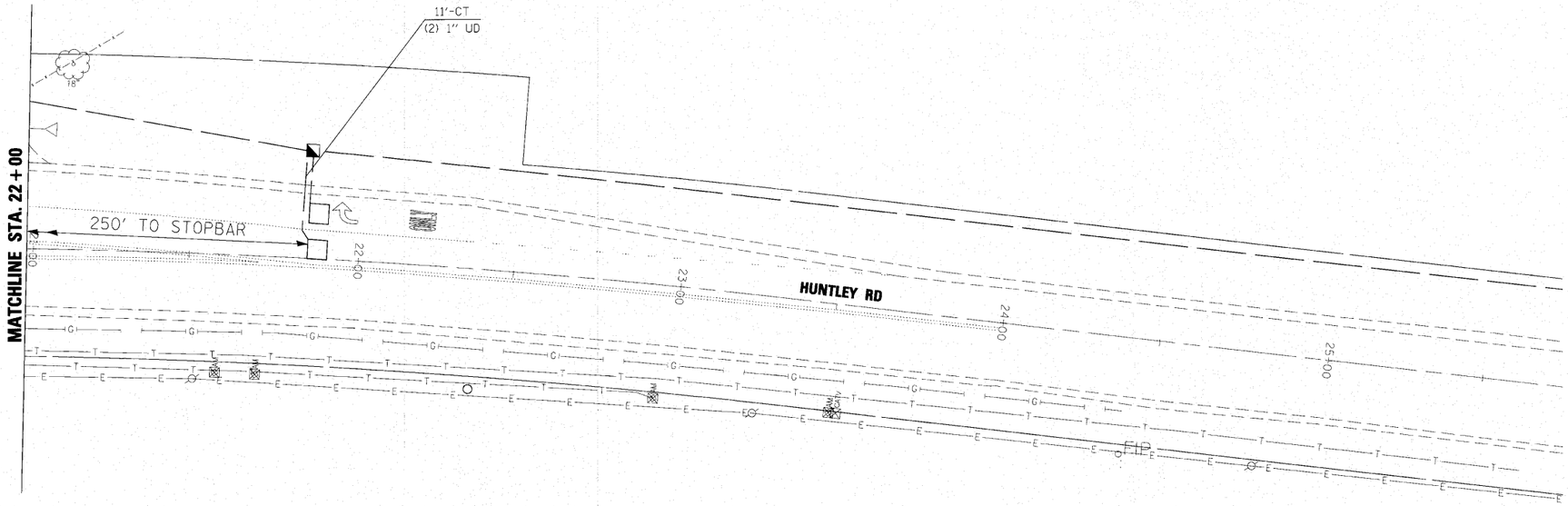
FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = $DATE$	DATE -	REVISED -

KANE COUNTY
DIVISION OF TRANSPORTATION

HUNTLEY ROAD AND SQUARE BARN ROAD
TRAFFIC SIGNAL PLAN

SCALE: 1"=20' | SHEET NO. 5 OF 36 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00379-00-TL	KANE	36	5
		CONTRACT NO. 63520		
		ILLINOIS FED. AID PROJECT CMM-9003(147)		



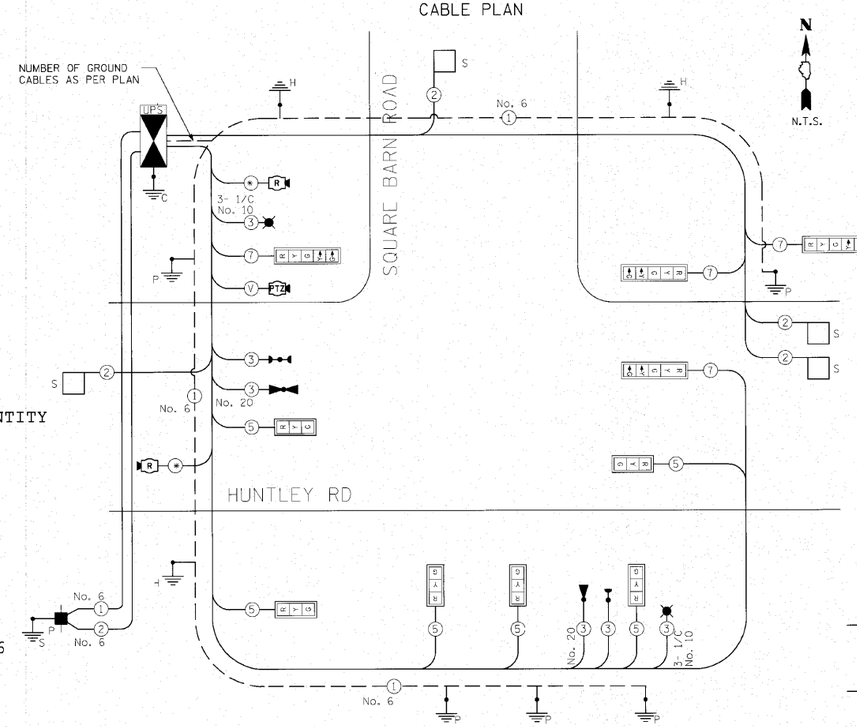
FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED -	REVISED -	**KANE COUNTY DIVISION OF TRANSPORTATION**	**HUNTLEY ROAD AND SQUARE BARN ROAD TRAFFIC SIGNAL PLAN**			
		DRAWN -	REVISED -					
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -		SCALE: 1"=20'	SHEET NO. 6 OF 36 SHEETS	STA.	TO STA.
	PLOT DATE = $DATE$	DATE -	REVISED -					

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00379-00-TL	KANE	36	6
		CONTRACT NO. 63520		
	ILLINOIS FED. AID PROJECT CMM-9003(147)			

SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QUANTITY
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	702
CONDUIT IN TRENCH, 2 1/2" DIA.,GALVANIZED STEEL	FOOT	12
CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	241
CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	96
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	102
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	130
HANDHOLE	EACH	5
DOUBLE HANDHOLE	EACH	1
ELECTRIC CABLE IN CONDUIT, 600V(XLP-TYPE USE) 3-1/C NO. 10	FOOT	400
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	1036
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, PHOTO-CELL CONTROL, 310 WATT	EACH	2
MAINTENANCE OF TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	326
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1131
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	726
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1430
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	122
TRAFFIC SIGNAL POST, 14 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 18 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 28 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 34 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	8
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	10
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	20
SIGNAL HEAD, LED, 1-FACE, 3-SECTION,MAST-ARM MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 3-SECTION,BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION,BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION,MAST-ARM MOUNTED	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED	EACH	10
INDUCTIVE LOOP DETECTOR	EACH	2
DETECTOR LOOP, TYPE I	FOOT	96
LIGHT DETECTOR	EACH	3
LIGHT DETECTOR AMPLIFIER	EACH	1
REMOVE TEMPORARY TRAFFIC SIGNALINSTALLATION	EACH	1
VIDEO SURVEILLANCE SYSTEM COMPLETE	EACH	1
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	326
RADAR VEHICLE DETECTION SYSTEM	EACH	1
UNINTERRUPTIBLE POWER SUPPLY	EACH	1
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	671
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1
ETHERNET SWITCH, TYPE 1	EACH	1
MALFUNCTION MANAGEMENT UNIT	EACH	1

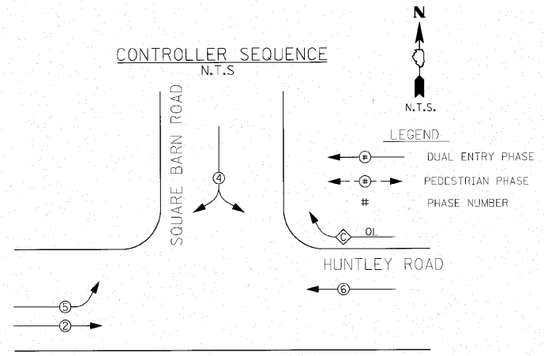
CABLE PLAN



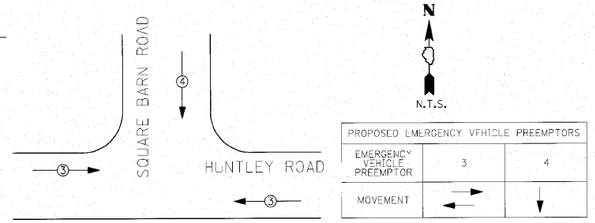
V = VENDOR SUPPLIED
* MICROWAVE SENSOR CABLE FOR WAVETRONICS SYSTEM. REFER TO SPECIFICATIONS FOR TYPE AND SIZE.

CONTROLLER SEQUENCE

N.T.S



PHASE DESIGNATION DIAGRAM



PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↓

EMERGENCY VEHICLE PREEMPTION SEQUENCE

KANE COUNTY TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
		WATTAGE			
TYPE	NO. OF LAMPS	INCAND.	LED	% OPERATION	
SIGNAL (RED)	10		17	0.53	90
(YELLOW)	10		25	0.06	15
(GREEN)	10		15	0.41	62
ARROW	4		12	0.22	11
PED. SIGNAL	-				
CONTROLLER	1		100	1.00	100
VIDEO SYSTEM	1	150		1.00	150
LUMINAIRE	2	310		0.50	310
RADAR DET	2	9		1.00	18
EVP DETECTION	3	4		1.00	12
LOOP DETECTION	3	4		1.00	12
UPS	1	50		1.00	50
ENERGY COSTS TO: KANE COUNTY				TOTAL =	830

ENERGY SUPPLY: CONTACT: KATHY NYSTROM
PHONE: (847) 608-2331
COMPANY: COMED

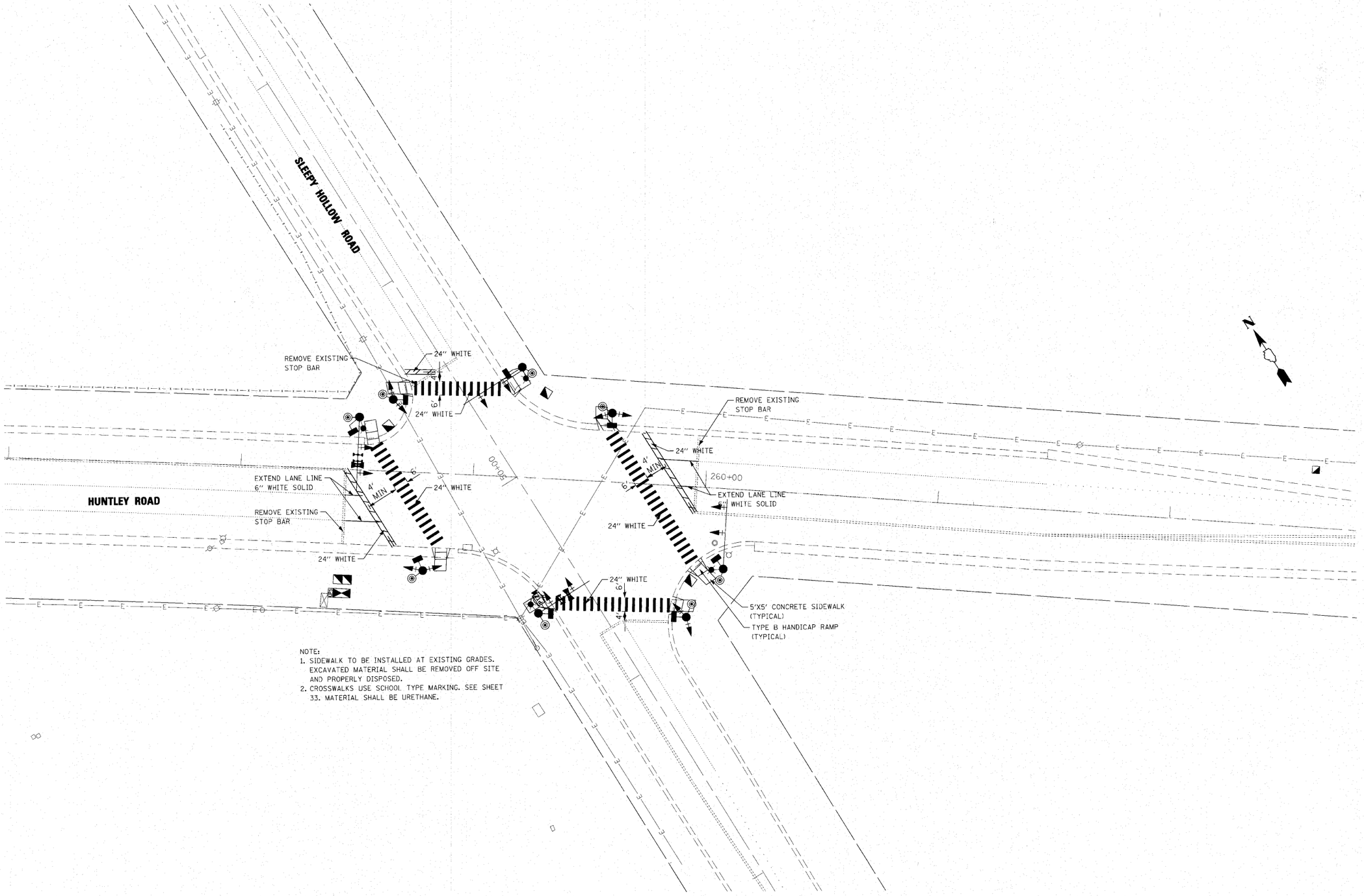
FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED
		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = $DATE$	DATE -	REVISED -

KANE COUNTY
DIVISION OF TRANSPORTATION

HUNTLEY ROAD AND SQUARE BARN ROAD
CABLE PLAN

SCALE: N/A | SHEET NO. 7 OF 36 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00379-00-TL	KANE	36	7
		CONTRACT NO. 63520		
	ILLINOIS FED. AID PROJECT CMM-9003(147)			



NOTE:
1. SIDEWALK TO BE INSTALLED AT EXISTING GRADES. EXCAVATED MATERIAL SHALL BE REMOVED OFF SITE AND PROPERLY DISPOSED.
2. CROSSWALKS USE SCHOOL TYPE MARKING. SEE SHEET 33. MATERIAL SHALL BE URETHANE.

FILE NAME = $FILE...$	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN -	REVISED -
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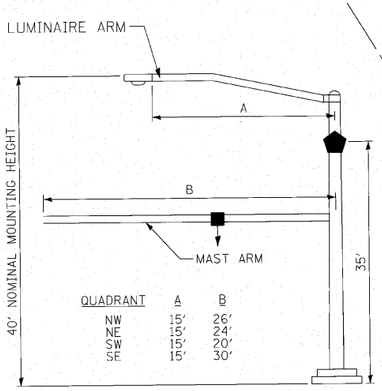
	PLOT DATE = $DATE$	DATE -	REVISED -

KANE COUNTY
DIVISION OF TRANSPORTATION

HUNTLEY ROAD AND SLEEPY HOLLOW RD
STRIPING AND SIDEWALK PLAN

SCALE: 1"=20' | SHEET NO. 8 OF 36 SHEETS | STA. | TO STA.

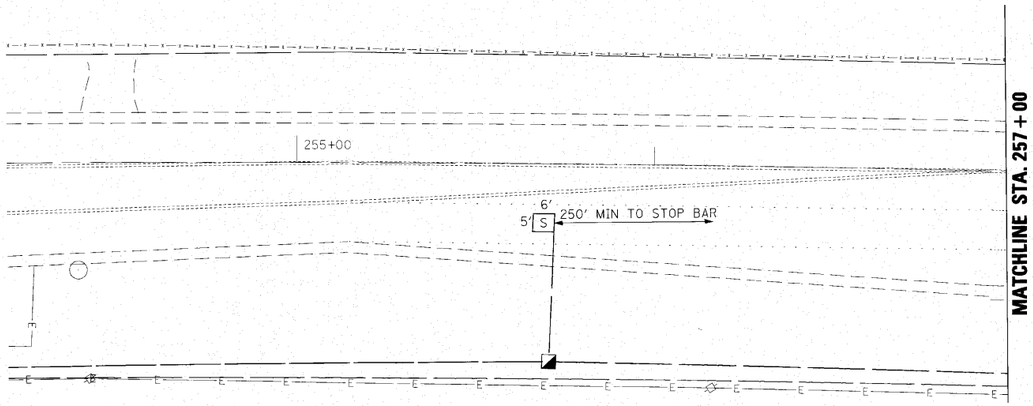
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00379-00-TL	KANE	36	8
		CONTRACT NO. 63520		
		ILLINOIS FED. AID PROJECT CMM-9003(147)		



QUADRANT	A	B
NW	15'	26'
NE	15'	24'
SW	15'	20'
SE	15'	30'

COMBINATION MAST ARM ASSEMBLY AND POLE DIMENSIONS
SLEEPY HOLLOW ROAD & HUNTLEY ROAD
(NOT TO SCALE)

ITEM	LOCATION
24' MAST ARM	259+18.76, 47.22' LT
24' MAST ARM	260+09.65, 34.51' RT
20' MAST ARM	259+30.80, 57.69' RT
26' MAST ARM	258+50.08, 22.68' LT
16' POST	259+58.27, 29.58' LT
16' POST	259+96.62, 46.50' RT
16' POST	258+80.32, 41.80' RT
16' POST	258+64.14, 30.81' LT
HANDHOLE	258+62.58, 19.46' LT
HANDHOLE	259+29.61, 36.66' LT
HANDHOLE	259+95.97, 40.27' RT
HANDHOLE	262+61.37, 24.93' LT
HANDHOLE	255+90.81, 54.97' RT
DOUBLE HANDHOLE	258+45.35, 47.26' RT
CONTROLLER	258+45.46, 53.12' LT



NOTE:
MAST ARMS ARE TO BE FABRICATED FOR 2' OF ADDITIONAL VERTICAL CLEARANCE TO ALLOW FOR FUTURE LEFT TURN SIGNALS

TYPICAL PLACEMENT OF SENSORS
SLEEPY HOLLOW ROAD

TYPICAL PLACEMENT OF SENSORS
HUNTLEY ROAD

NOTE:
THE IN-PAVEMENT VEHICLE DETECTOR SYSTEM WILL BE COMPRISED OF 18 IN-PAVEMENT SENSORS, ONE ACCESS POINT AND TWO REPEATERS ALONG WITH THE NECESSARY CABLING AND IN-CABINET HARDWARE.

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN -	REVISED -
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	PLOT DATE = $DATE$	DATE -	REVISED -

KANE COUNTY
DIVISION OF TRANSPORTATION

HUNTLEY ROAD AND SLEEPY HOLLOW RD
TRAFFIC SIGNAL PLAN

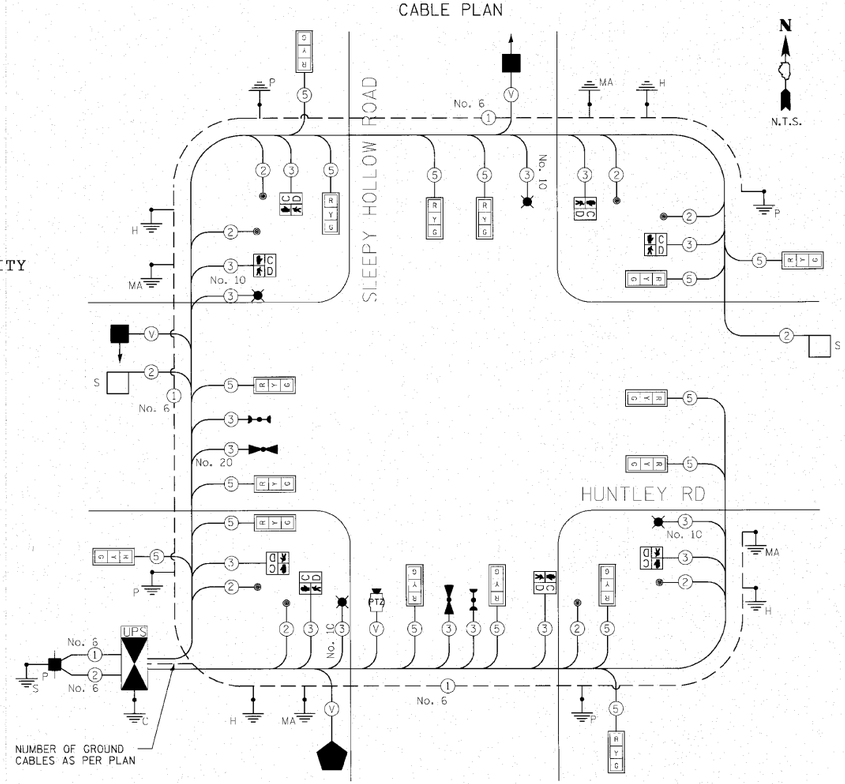
SCALE: 1"=20' | SHEET NO. 9 OF 36 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	00-00379-00-TL	KANE	36	9
		CONTRACT NO. 63520		
	ILLINOIS	FED. AID PROJECT CMM-9003(147)		

SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QUANTITY
PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH	SQ FT	384
DETECTABLE WARNINGS	SQ FT	120
PAVEMENT MARKING REMOVAL	SQ FT	85
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	663
CONDUIT IN TRENCH, 2 1/2" DIA.,GALVANIZED STEEL	FOOT	93
CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	128
CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	103
CONDUIT IN TRENCH, 5" DIA., GALVANIZED STEEL	FOOT	11
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	137
CONDUIT PUSHED, 5" DIA., GALVANIZED STEEL	FOOT	58
HANDHOLE	EACH	5
DOUBLE HANDHOLE	EACH	1
ELECTRIC CABLE IN CONDUIT, 600V(XLP-TYPE USE) 3-1/C NO. 10	FOOT	821
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	943
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, PHOTO-CELL CONTROL, 310 WATT	EACH	4
MAINTENANCE OF TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1254
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1616
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2830
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	777
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	76
TRAFFIC SIGNAL POST, 16 FT.	EACH	4
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 26 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 30 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 32 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 36 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	16
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	40
SIGNAL HEAD, LED, 1-FACE, 3-SECTION,MAST-ARM MOUNTED	EACH	8
SIGNAL HEAD, LED, 1-FACE, 3-SECTION,BRACKET MOUNTED	EACH	8
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, LOUVERED	EACH	16
INDUCTIVE LOOP DETECTOR	EACH	1
DETECTOR LOOP, TYPE I	FOOT	48
LIGHT DETECTOR	EACH	4
LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	8
REMOVE TEMPORARY TRAFFIC SIGNALINSTALLATION	EACH	1
VIDEO SURVEILLANCE SYSTEM COMPLETE	EACH	1
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	305
URETHANE PAVEMENT MARKING - LINE 6"	FOOT	470
URETHANE PAVEMENT MARKING - LINE 12"	FOOT	73
URETHANE PAVEMENT MARKING - LINE 24"	FOOT	94
UNINTERRUPTIBLE POWER SUPPLY	EACH	1
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	760
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1
ETHERNET SWITCH, TYPE 1	EACH	1
IN-PAVEMENT VEHICLE DETECTION SYSTEM - COMPLETE	EACH	1
MALFUNCTION MANAGEMENT UNIT	EACH	1

CABLE PLAN



LEGEND

DETECTION ACCESS POINT

DETECTOR REPEATER

V = VENDOR SUPPLIED

MAST ARMS ARE TO BE FABRICATED WITH ADDITIONAL VERTICAL CLEARANCE FOR FUTURE 5-SECTION HEAD.

KANE COUNTY

TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

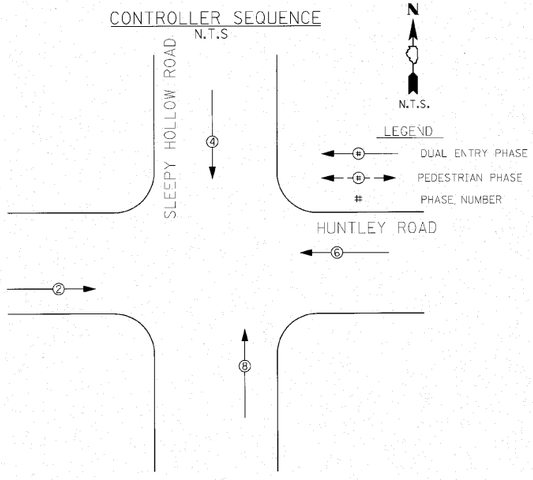
TYPE	NO. OF LAMPS	WATTAGE INCAND.	WATTAGE LED	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	16		17	0.53	144
(YELLOW)	16		25	0.06	24
(GREEN)	16		15	0.41	98
ARROW	-		12	0.22	-
PED. SIG.	8		25	1.00	200
CONTROLLER	1		100	1.00	100
LUMINAIRE	4	310		0.50	620
VIDEO SYSTEM	1	150		1.00	150
UPS	1	50		1.00	50
EVP DETECTION	2	4		1.00	8
FLASHER				0.50	
LOOP DETECTORS	2	4		1.00	8
ENERGY COSTS TO:				TOTAL -	1,402

KANE COUNTY

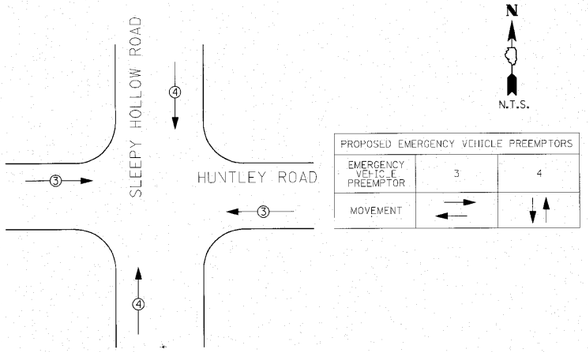
ENERGY SUPPLY: CONTACT: KATHY NYSTROM
PHONE: (847) 608-2331
COMPANY: COMED

CONTROLLER SEQUENCE

N.T.S



PHASE DESIGNATION DIAGRAM



PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	→	↑ ←

EMERGENCY VEHICLE PREEMPTION SEQUENCE

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		DRAWN -	REVISED -
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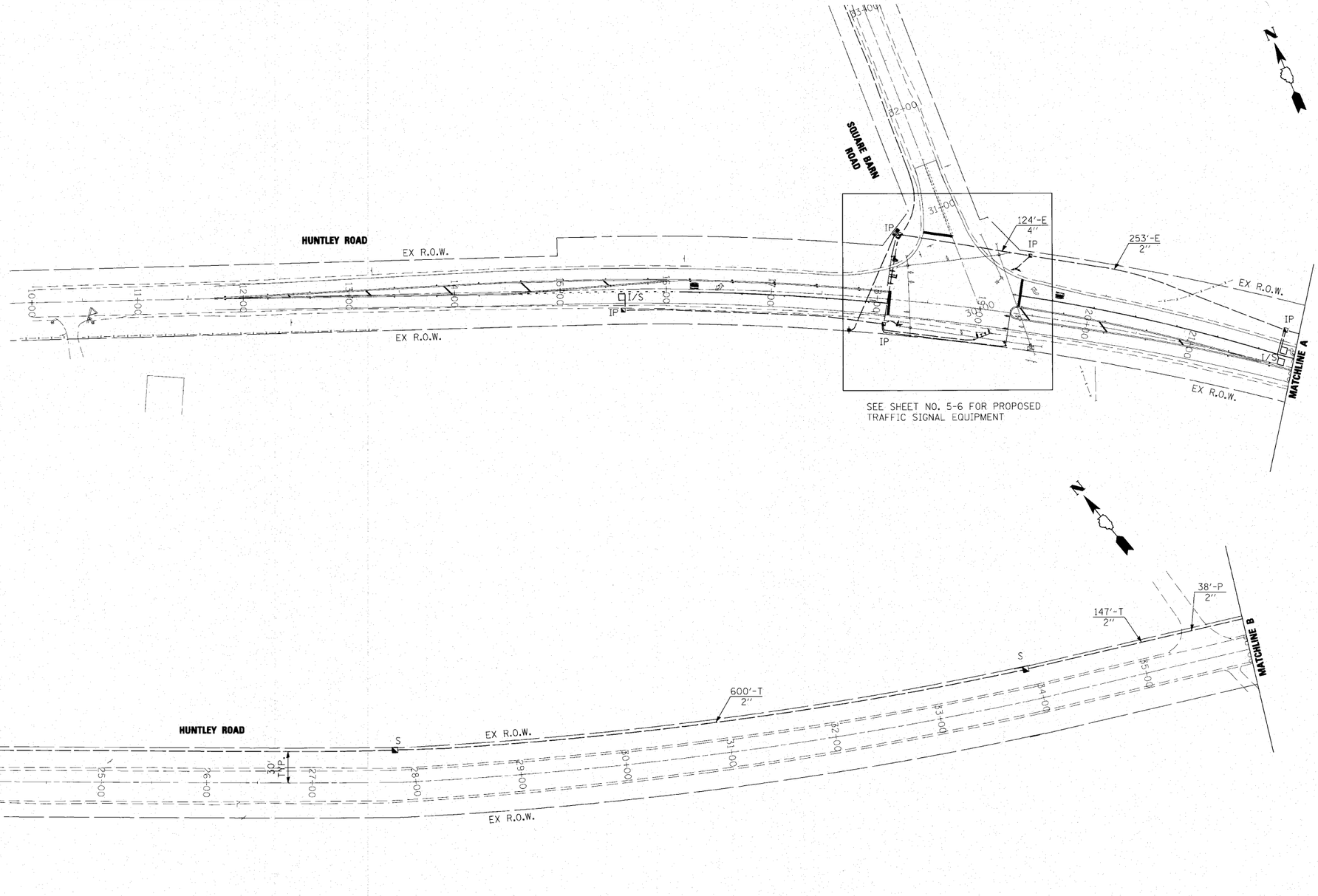
	PLOT DATE = $DATE$	DATE -	REVISED -

KANE COUNTY
DIVISION OF TRANSPORTATION

HUNTLEY ROAD AND SLEEPY HOLLOW ROAD
CABLE PLAN

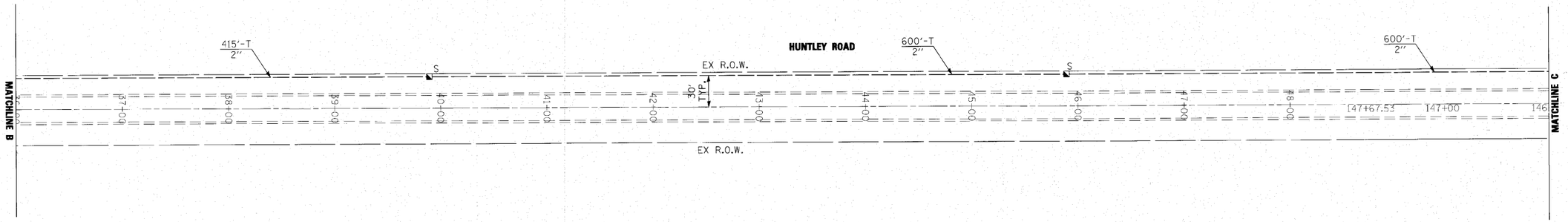
SCALE: N/A | SHEET NO. 10 OF 36 SHEETS | STA. | TO STA.

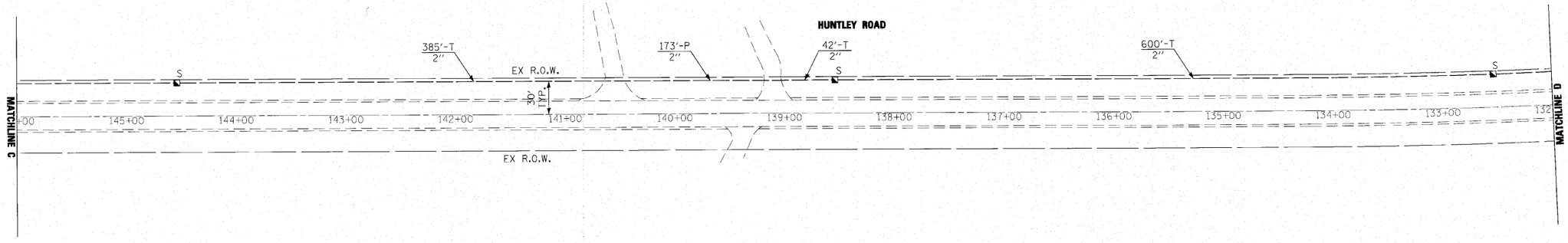
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00379-00-TL	KANE	36	10
		CONTRACT NO. 63520		
	ILLINOIS FED. AID PROJECT CMM-9003(147)			



NOTE: NO PROJECT UTILITY ADJUSTMENTS ARE ANTICIPATED.
SEE SPECIAL PROVISION FOR UTILITY CONTACTS AS NEEDED.

FILE NAME = #FILEL#		DESIGNED -	REVISED	**KANE COUNTY DIVISION OF TRANSPORTATION**	**INTERCONNECT PLANS HUNTLEY ROAD**	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -				08-00379-00-TL	KANE	36	11
		CHECKED -	REVISED -					CONTRACT NO. 63520		
		DATE -	REVISED -		SCALE: 1" = 50' SHEET NO. 11 OF 36 SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT CMM-9003(147)		





PROFILE
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FILE NAME = $FILEL$

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CHECKED -	REVISED -	
DATE -	REVISED -	

KANE COUNTY
DIVISION OF TRANSPORTATION

INTERCONNECT PLANS
HUNTLEY ROAD

SCALE: 1" = 50' | SHEET NO. 12 OF 36 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00379-00-TL	KANE	36	12
		CONTRACT NO. 63520		
	ILLINOIS FED. AID PROJECT CMM-9003(147)			

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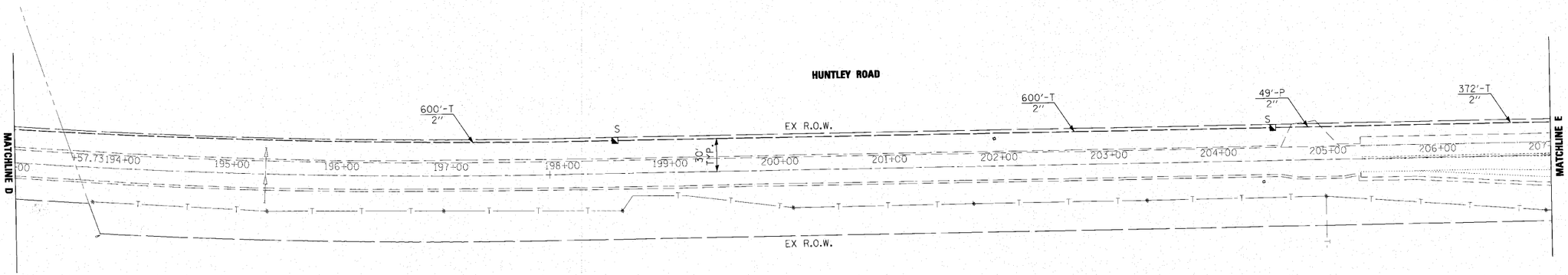

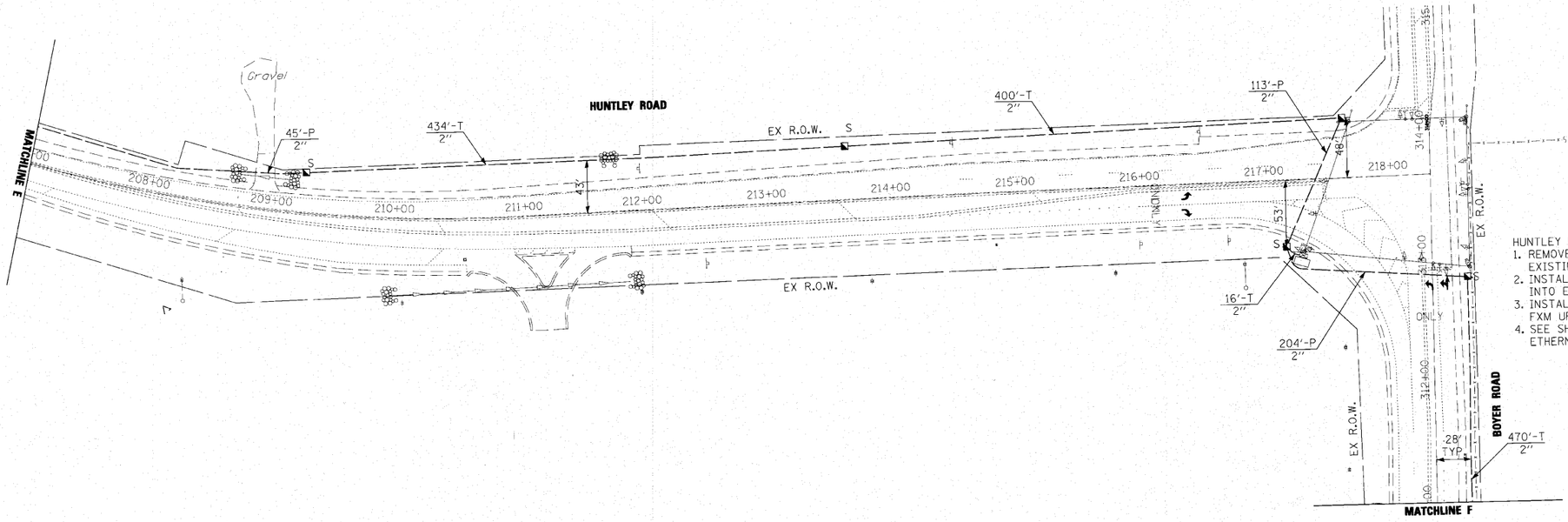

HUNTLEY ROAD AT BOYER ROAD NOTES:
1. REMOVE EXISTING MALFUNCTION MANAGEMENT UNIT FROM EXISTING TRAFFIC SIGNAL CONTROLLER CABINET.
2. INSTALL MALFUNCTION MANAGEMENT UNIT WITH SNMP PORT INTO EXISTING TRAFFIC SIGNAL CONTROLLER CABINET.
3. INSTALL FXM COMMUNICATION MODULE IN EXISTING ALPHA FXM UPS.
4. SEE SHEETS 34-36 FOR AN EQUIPMENT LIST FOR ETHERNET INTERFACE AND COMMUNICATIONS UPGRADE

PROFILE | SURVEYED | DATE
PLOTTED | BY
NOTE BOOK | GRADES CHECKED
NO. | R1: STRUCTURE NOTATIONS ON PLAN

FILE NAME = @FILE1@

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

KANE COUNTY
DIVISION OF TRANSPORTATION

INTERCONNECT PLANS
HUNTLEY ROAD

SCALE: 1" = 50' | SHEET NO. 13 OF 36 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00379-00-TL	KANE	36	13
		CONTRACT NO. 63520		
	ILLINOIS FED. AID PROJECT CMM-9003(147)			

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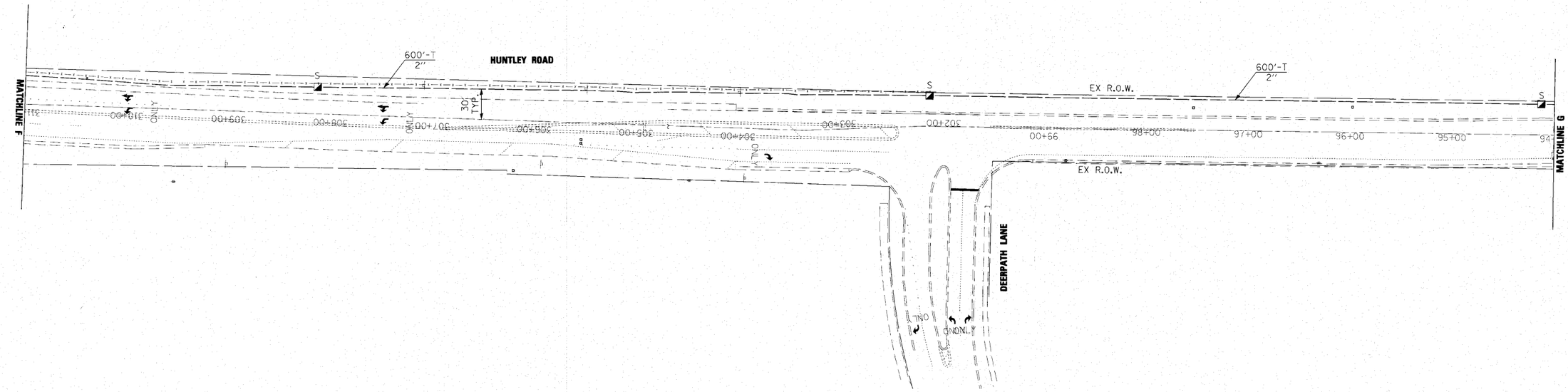

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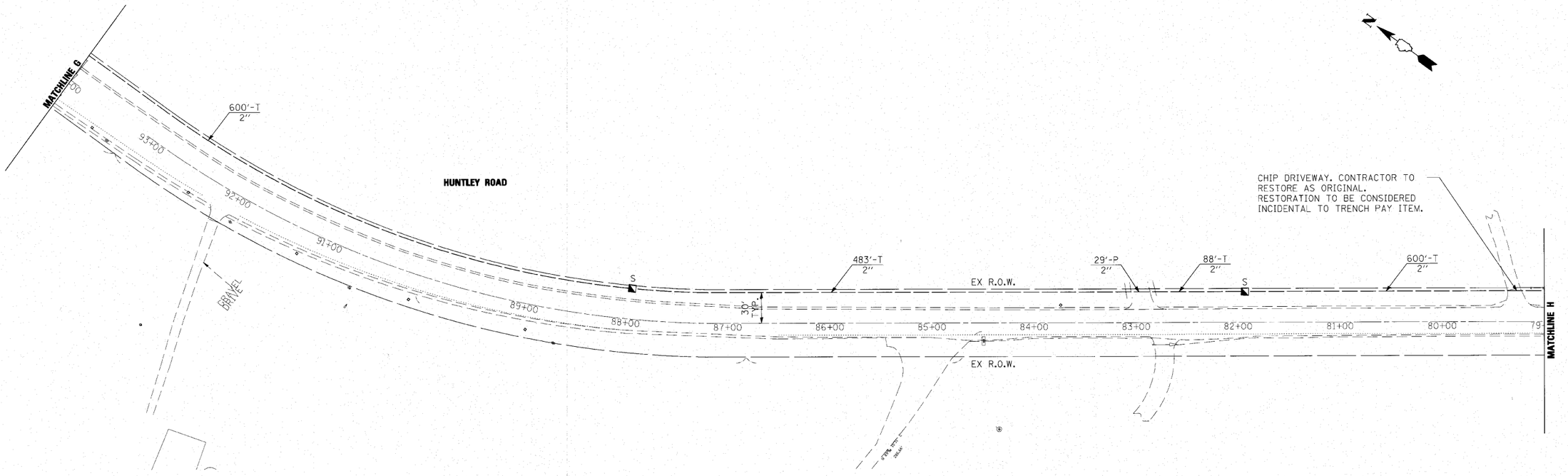

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		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

KANE COUNTY
DIVISION OF TRANSPORTATION

INTERCONNECT PLANS
HUNTLEY ROAD

SCALE: 1" = 50' | SHEET NO. 14 OF 36 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00379-00-TL	KANE	36	14
		CONTRACT NO. 63520		
	ILLINOIS	FED. AID PROJECT CMM-9003(147)		

PLAN
SURVEYED
PLOTTED
DRAWN
CHECKED
QUANTITIES
R.P. OF M.P. CHECKED
QUAD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
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QUANTITIES
NOTE BOOK
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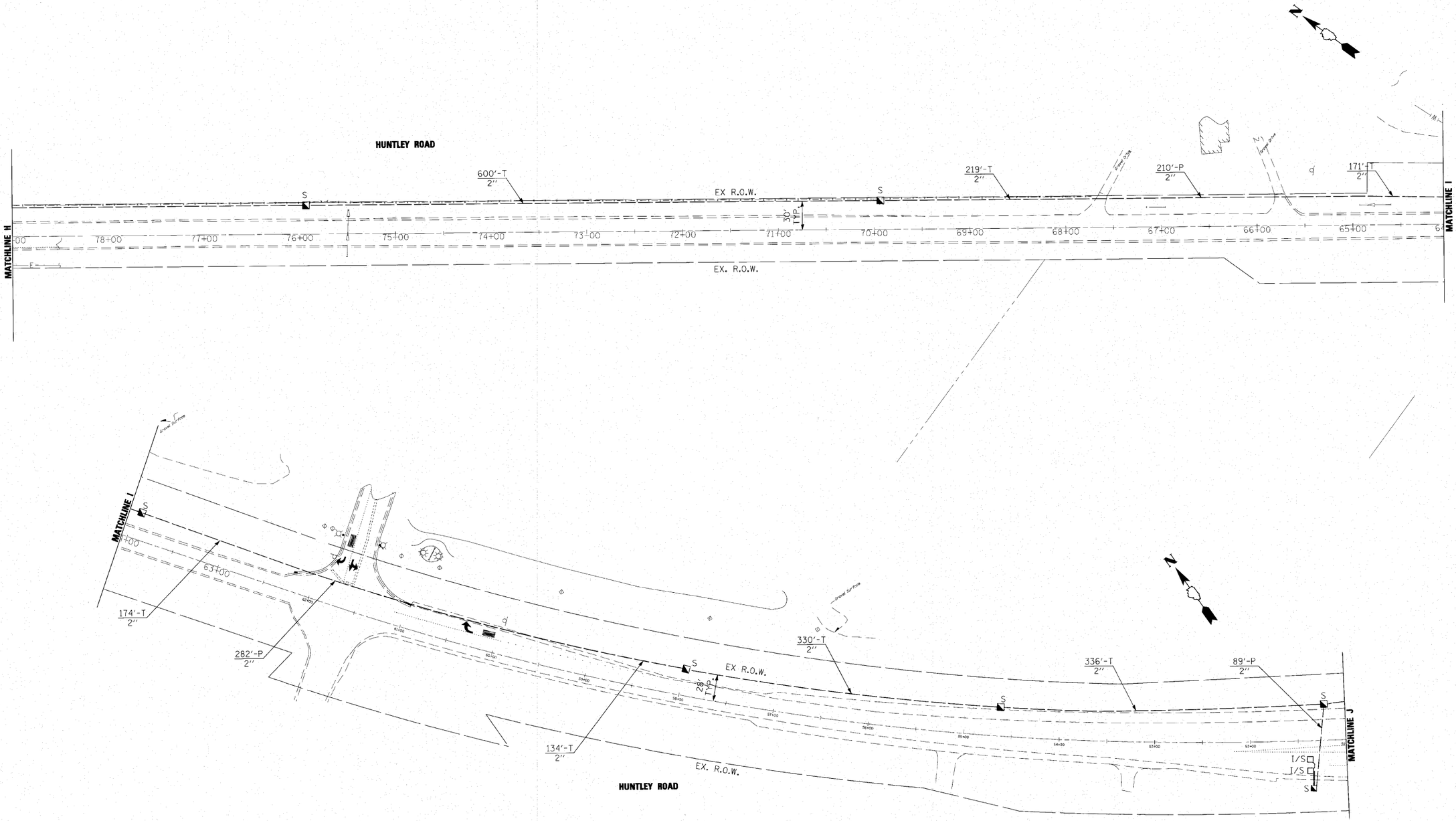


FILE NAME = *FILEL*		DESIGNED -	REVISED -
		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

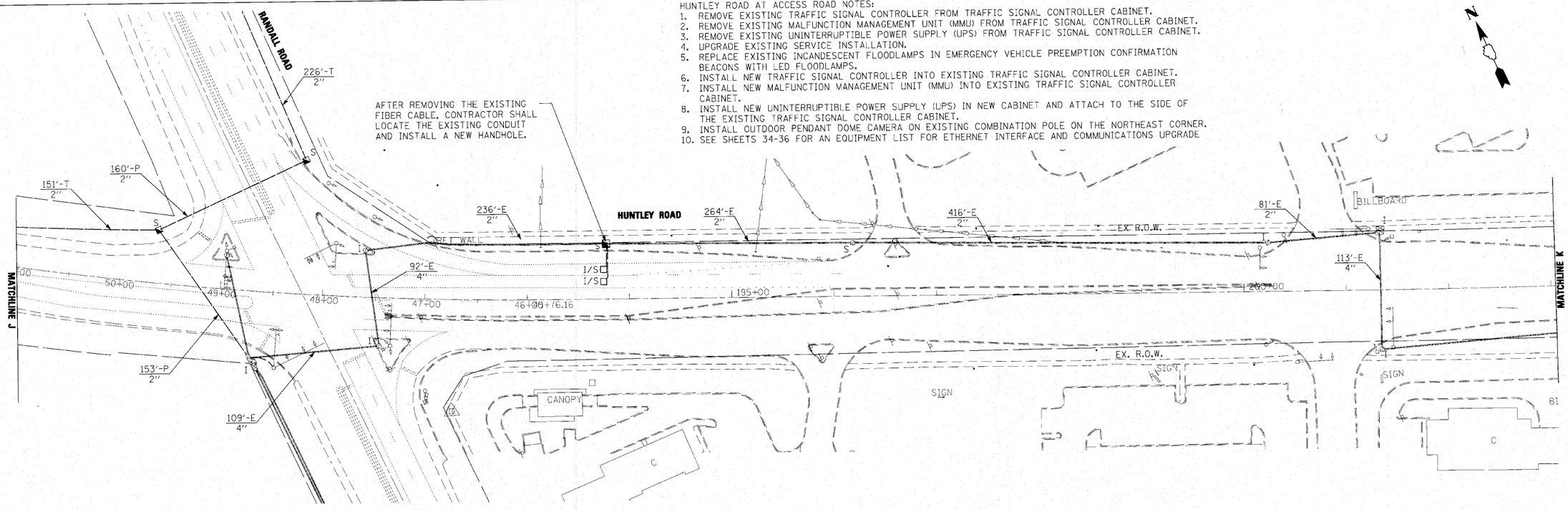
KANE COUNTY
DIVISION OF TRANSPORTATION

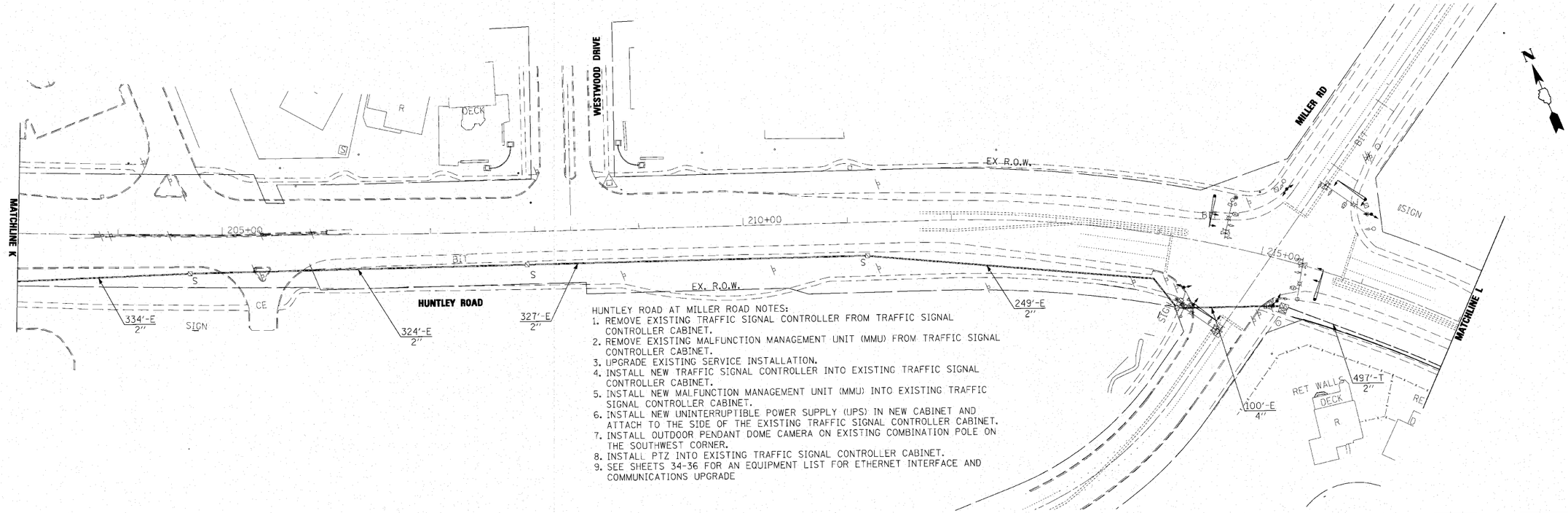
INTERCONNECT PLANS
HUNTLEY ROAD

SCALE: 1" = 50' | SHEET NO. 15 OF 36 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00379-00-TL	KANE	36	15
		CONTRACT NO. 63520		
	ILLINOIS	FED. AID PROJECT CMM-9003(147)		

HUNTLEY ROAD AT ACCESS ROAD NOTES:
1. REMOVE EXISTING TRAFFIC SIGNAL CONTROLLER FROM TRAFFIC SIGNAL CONTROLLER CABINET.
2. REMOVE EXISTING MALFUNCTION MANAGEMENT UNIT (MMU) FROM TRAFFIC SIGNAL CONTROLLER CABINET.
3. REMOVE EXISTING UNINTERRUPTIBLE POWER SUPPLY (UPS) FROM TRAFFIC SIGNAL CONTROLLER CABINET.
4. UPGRADE EXISTING SERVICE INSTALLATION.
5. REPLACE EXISTING INCANDESCENT FLOODLAMPS IN EMERGENCY VEHICLE PREEMPTION CONFIRMATION BEACONS WITH LED FLOODLAMPS.
6. INSTALL NEW TRAFFIC SIGNAL CONTROLLER INTO EXISTING TRAFFIC SIGNAL CONTROLLER CABINET.
7. INSTALL NEW MALFUNCTION MANAGEMENT UNIT (MMU) INTO EXISTING TRAFFIC SIGNAL CONTROLLER CABINET.
8. INSTALL NEW UNINTERRUPTIBLE POWER SUPPLY (UPS) IN NEW CABINET AND ATTACH TO THE SIDE OF THE EXISTING TRAFFIC SIGNAL CONTROLLER CABINET.
9. INSTALL OUTDOOR PENDANT DOME CAMERA ON EXISTING COMBINATION POLE ON THE NORTHEAST CORNER.
10. SEE SHEETS 34-36 FOR AN EQUIPMENT LIST FOR ETHERNET INTERFACE AND COMMUNICATIONS UPGRADE





HUNTLEY ROAD AT MILLER ROAD NOTES:
1. REMOVE EXISTING TRAFFIC SIGNAL CONTROLLER FROM TRAFFIC SIGNAL CONTROLLER CABINET.
2. REMOVE EXISTING MALFUNCTION MANAGEMENT UNIT (MMU) FROM TRAFFIC SIGNAL CONTROLLER CABINET.
3. UPGRADE EXISTING SERVICE INSTALLATION.
4. INSTALL NEW TRAFFIC SIGNAL CONTROLLER INTO EXISTING TRAFFIC SIGNAL CONTROLLER CABINET.
5. INSTALL NEW MALFUNCTION MANAGEMENT UNIT (MMU) INTO EXISTING TRAFFIC SIGNAL CONTROLLER CABINET.
6. INSTALL NEW UNINTERRUPTIBLE POWER SUPPLY (UPS) IN NEW CABINET AND ATTACH TO THE SIDE OF THE EXISTING TRAFFIC SIGNAL CONTROLLER CABINET.
7. INSTALL OUTDOOR PENDANT DOME CAMERA ON EXISTING COMBINATION POLE ON THE SOUTHWEST CORNER.
8. INSTALL PTZ INTO EXISTING TRAFFIC SIGNAL CONTROLLER CABINET.
9. SEE SHEETS 34-36 FOR AN EQUIPMENT LIST FOR ETHERNET INTERFACE AND COMMUNICATIONS UPGRADE

PLAN: SURVEYED, PLOTTED, R/W & ST. CHECKED, CROSS TIES SHWN, NOTE BOOK, NO.
PROFILE: SURVEYED, PLOTTED, GRADES CHECKED, R/W & ST. CHECKED, STRUCTURE NO'S/ATRNS CHKD, NOTE BOOK, NO.
BY, DATE

FILE NAME = $FILEL8		DESIGNED -	REVISED -
		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

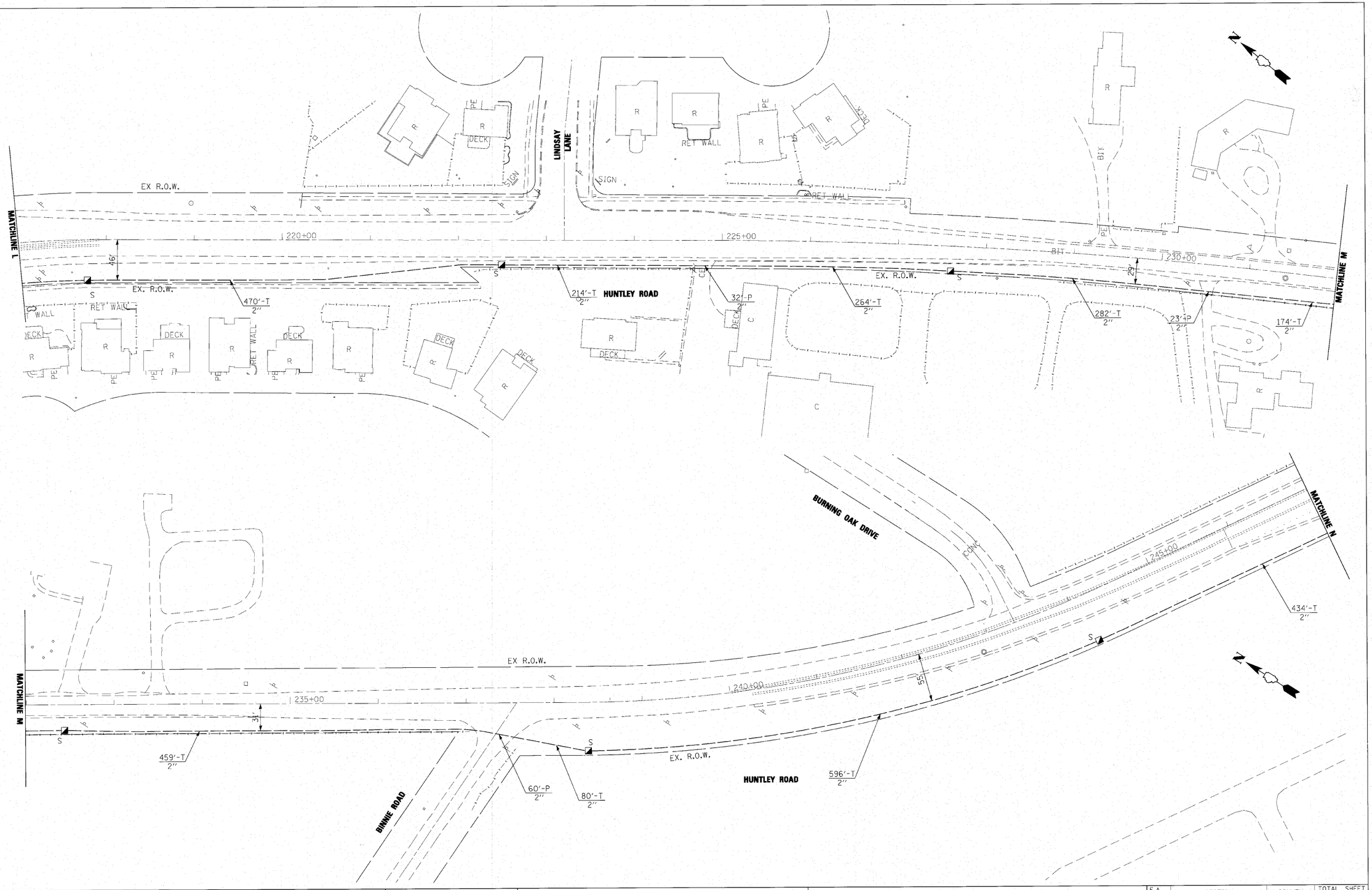
KANE COUNTY
DIVISION OF TRANSPORTATION

INTERCONNECT PLANS
HUNTLEY ROAD
SCALE: 1" = 50' | SHEET NO. 16 OF 36 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00379-00-TL	KANE	36	16
		CONTRACT NO. 63520		
	ILLINOIS	FED. AID PROJECT CMM-9003(147)		

PLAN
SURVEYED
PLOTTED
CHANGES CHECKED
NOTE BOOK
NO.
BY
DATE
ALIGNMENT, R.O.W. CHECKED
R.P. OF WAY CHECKED
CADD FILE NAME

PROFILE
SURVEYED
PLOTTED
CHANGES CHECKED
NOTE BOOK
NO.
BY
DATE
BAL. NOTED
STRUCTURE NOTATIONS CHKD



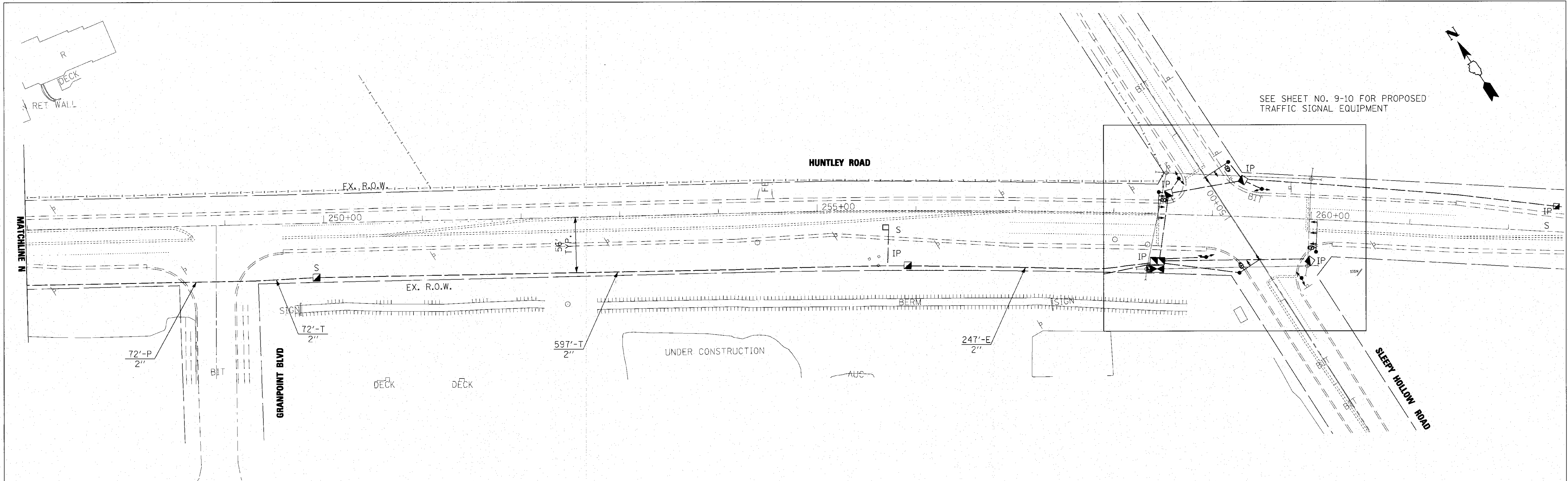
FILE NAME = $FILEL$		DESIGNED -	REVISED -
		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

KANE COUNTY
DIVISION OF TRANSPORTATION

INTERCONNECT PLANS
HUNTLEY ROAD

SCALE: 1" = 50' | SHEET NO. 17 OF 36 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00379-00-TL	KANE	36	17
		CONTRACT NO. 63520		
	ILLINOIS	FED. AID PROJECT CMM-9003(147)		



NOTE:
THE FOLLOWING EXISTING TRAFFIC SIGNAL SHALL BE REMOVED BY THE CONTRACTOR. ALL EQUIPMENT REMOVED BY THE CONTRACTOR SHALL BE SALVAGED AND ANY SALVAGE VALUE SHALL BE CREDITED TO THE CONTRACT THROUGH THE CONTRACTOR'S BID.

HUNTLEY ROAD

AT BOYER ROAD
- 1 EACH MALFUNCTION MANAGEMENT UNIT

AT PRAIRIE MEADOWS (DOMINICKS) ENTRANCE
- 1 EACH TRAFFIC SIGNAL CONTROLLER
- 1 EACH MALFUNCTION MANAGEMENT UNIT
- 1 EACH UNINTERRUPTIBLE POWER SUPPLY, BASIC

AT MILLER ROAD
- 1 EACH MALFUNCTION MANAGEMENT UNIT

PLAN: NOTE BOOK NO. ___ SURVEYED / PLOTTED / ALIGNMENT CHECKED / R.O.W. WAY CHECKED / CADD FILE NAME — BY — DATE

PROFILE: NOTE BOOK NO. ___ SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTATNS CHK'D — BY

FILE NAME = $FILE$		DESIGNED -	REVISED -
		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

KANE COUNTY
DIVISION OF TRANSPORTATION

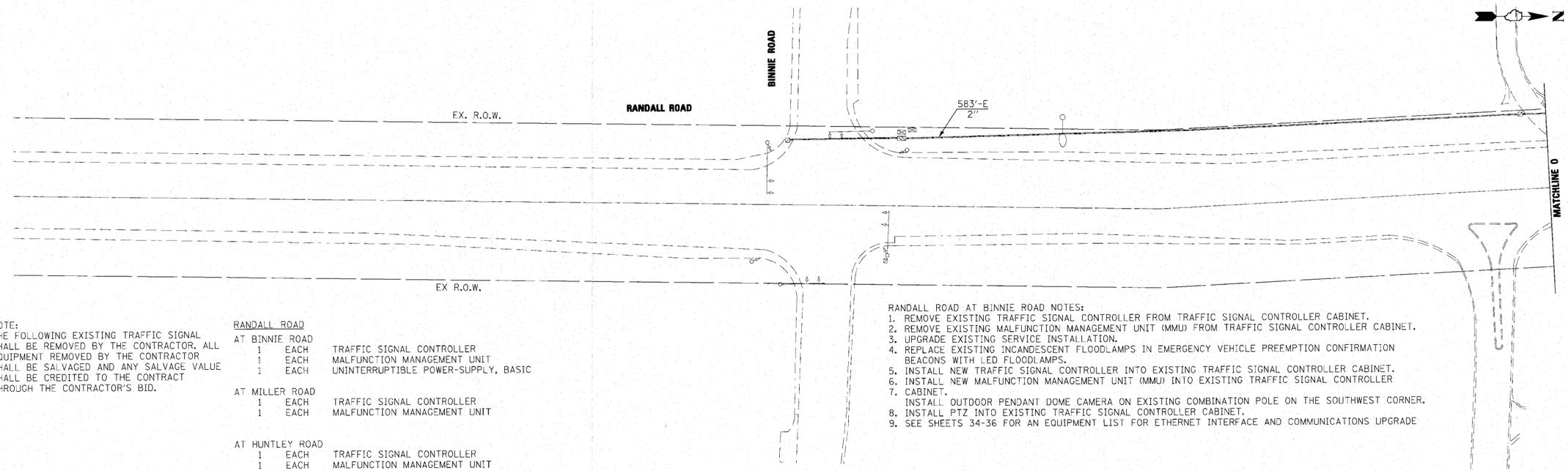
INTERCONNECT PLANS
HUNTLEY ROAD

SCALE: 1" = 50' | SHEET NO. 18 OF 36 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00379-00-TL	KANE	36	18
		CONTRACT NO. 63520		

ILLINOIS | FED. AID PROJECT CMM-9003(47)

PLAN SURVEYED / PLOTTED / CROSS SECTIONED / BAR NOTED / STRUCTURE NOTATNS CHKD / NOTE BOOK / NO. / RT. OF WAY CHECKED / PLOT FILE NAME / DATE / BY



NOTE:
THE FOLLOWING EXISTING TRAFFIC SIGNAL SHALL BE REMOVED BY THE CONTRACTOR. ALL EQUIPMENT REMOVED BY THE CONTRACTOR SHALL BE SALVAGED AND ANY SALVAGE VALUE SHALL BE CREDITED TO THE CONTRACT THROUGH THE CONTRACTOR'S BID.

RANDALL ROAD

AT BINNIE ROAD

1	EACH	TRAFFIC SIGNAL CONTROLLER
1	EACH	MALFUNCTION MANAGEMENT UNIT
1	EACH	UNINTERRUPTIBLE POWER-SUPPLY, BASIC

AT MILLER ROAD

1	EACH	TRAFFIC SIGNAL CONTROLLER
1	EACH	MALFUNCTION MANAGEMENT UNIT

AT HUNTLEY ROAD

1	EACH	TRAFFIC SIGNAL CONTROLLER
1	EACH	MALFUNCTION MANAGEMENT UNIT
1	EACH	UNINTERRUPTIBLE POWER SUPPLY, BASIC

AT CORPORATE PARKWAY

1	EACH	TRAFFIC SIGNAL CONTROLLER
1	EACH	MALFUNCTION MANAGEMENT UNIT
1	EACH	UNINTERRUPTIBLE POWER SUPPLY, BASIC

AT COMMONS DRIVE

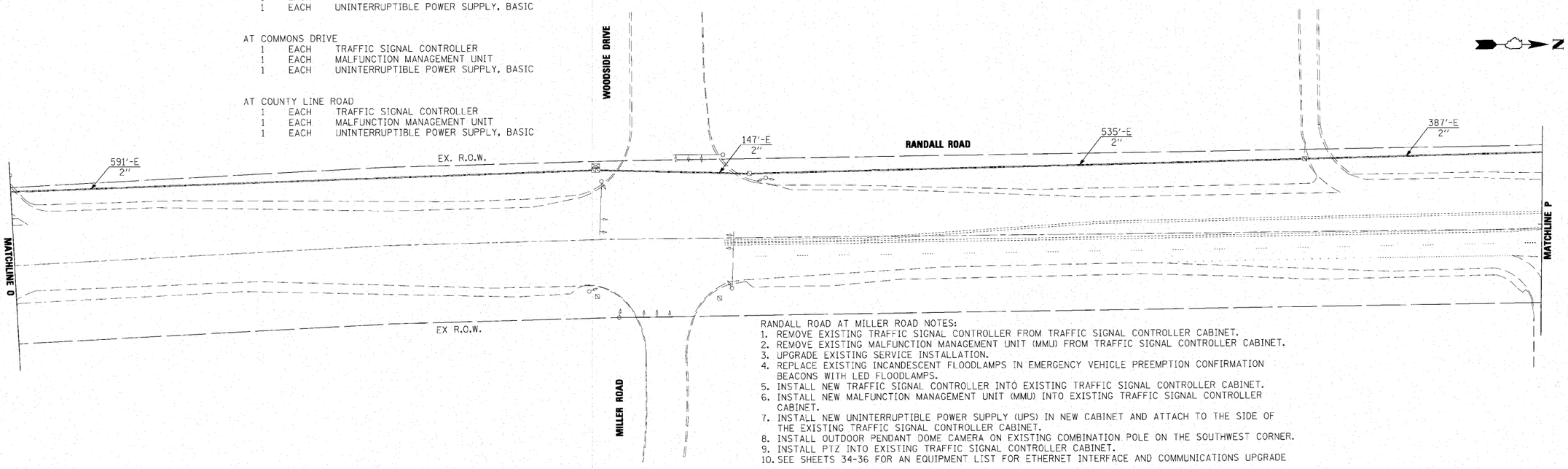
1	EACH	TRAFFIC SIGNAL CONTROLLER
1	EACH	MALFUNCTION MANAGEMENT UNIT
1	EACH	UNINTERRUPTIBLE POWER SUPPLY, BASIC

AT COUNTY LINE ROAD

1	EACH	TRAFFIC SIGNAL CONTROLLER
1	EACH	MALFUNCTION MANAGEMENT UNIT
1	EACH	UNINTERRUPTIBLE POWER SUPPLY, BASIC

RANDALL ROAD AT BINNIE ROAD NOTES:
1. REMOVE EXISTING TRAFFIC SIGNAL CONTROLLER FROM TRAFFIC SIGNAL CONTROLLER CABINET.
2. REMOVE EXISTING MALFUNCTION MANAGEMENT UNIT (MMU) FROM TRAFFIC SIGNAL CONTROLLER CABINET.
3. UPGRADE EXISTING SERVICE INSTALLATION.
4. REPLACE EXISTING INCANDESCENT FLOODLAMPS IN EMERGENCY VEHICLE PREEMPTION CONFIRMATION BEACONS WITH LED FLOODLAMPS.
5. INSTALL NEW TRAFFIC SIGNAL CONTROLLER INTO EXISTING TRAFFIC SIGNAL CONTROLLER CABINET.
6. INSTALL NEW MALFUNCTION MANAGEMENT UNIT (MMU) INTO EXISTING TRAFFIC SIGNAL CONTROLLER
7. CABINET.
   INSTALL OUTDOOR PENDANT DOME CAMERA ON EXISTING COMBINATION POLE ON THE SOUTHWEST CORNER.
8. INSTALL PTZ INTO EXISTING TRAFFIC SIGNAL CONTROLLER CABINET.
9. SEE SHEETS 34-36 FOR AN EQUIPMENT LIST FOR ETHERNET INTERFACE AND COMMUNICATIONS UPGRADE

PROFILE SURVEYED / PLOTTED / CROSS SECTIONED / BAR NOTED / STRUCTURE NOTATNS CHKD / NOTE BOOK / NO. / BY



RANDALL ROAD AT MILLER ROAD NOTES:
1. REMOVE EXISTING TRAFFIC SIGNAL CONTROLLER FROM TRAFFIC SIGNAL CONTROLLER CABINET.
2. REMOVE EXISTING MALFUNCTION MANAGEMENT UNIT (MMU) FROM TRAFFIC SIGNAL CONTROLLER CABINET.
3. UPGRADE EXISTING SERVICE INSTALLATION.
4. REPLACE EXISTING INCANDESCENT FLOODLAMPS IN EMERGENCY VEHICLE PREEMPTION CONFIRMATION BEACONS WITH LED FLOODLAMPS.
5. INSTALL NEW TRAFFIC SIGNAL CONTROLLER INTO EXISTING TRAFFIC SIGNAL CONTROLLER CABINET.
6. INSTALL NEW MALFUNCTION MANAGEMENT UNIT (MMU) INTO EXISTING TRAFFIC SIGNAL CONTROLLER CABINET.
7. INSTALL NEW UNINTERRUPTIBLE POWER SUPPLY (UPS) IN NEW CABINET AND ATTACH TO THE SIDE OF THE EXISTING TRAFFIC SIGNAL CONTROLLER CABINET.
8. INSTALL OUTDOOR PENDANT DOME CAMERA ON EXISTING COMBINATION POLE ON THE SOUTHWEST CORNER.
9. INSTALL PTZ INTO EXISTING TRAFFIC SIGNAL CONTROLLER CABINET.
10. SEE SHEETS 34-36 FOR AN EQUIPMENT LIST FOR ETHERNET INTERFACE AND COMMUNICATIONS UPGRADE

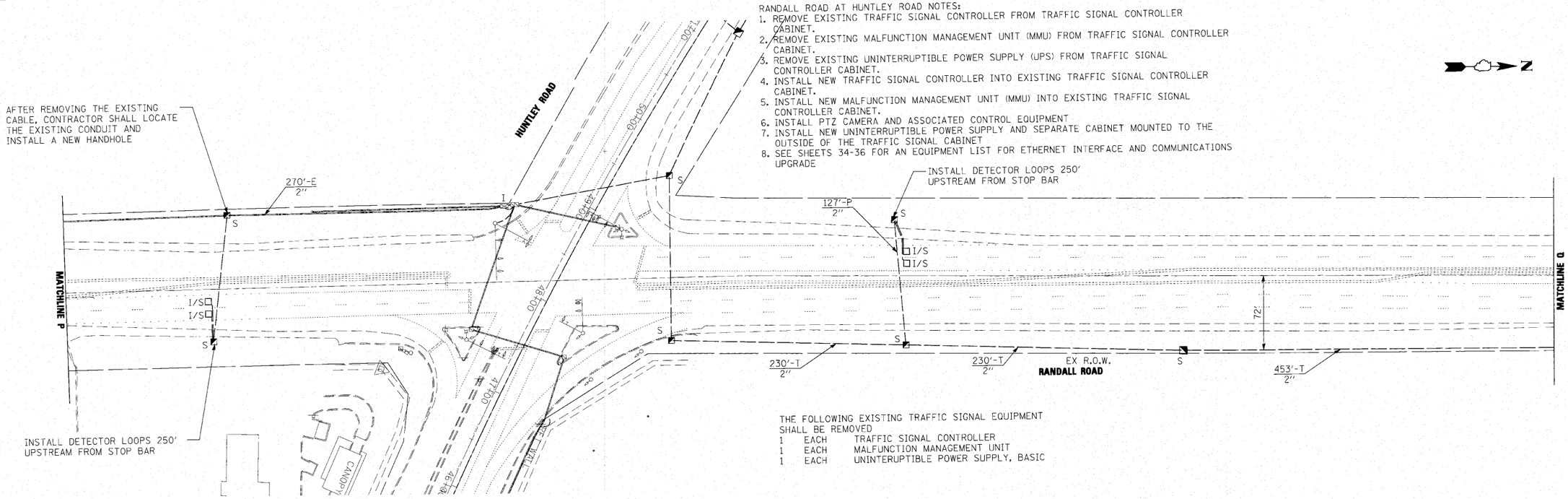
FILE NAME = $FILEL$		DESIGNED -	REVISED -	**KANE COUNTY DIVISION OF TRANSPORTATION**
		DRAWN -	REVISED -	
		CHECKED -	REVISED -	
		DATE -	REVISED -	

INTERCONNECT PLANS
RANDALL ROAD

SCALE: 1" = 50' | SHEET NO. 19 OF 36 SHEETS | STA. | TO STA.

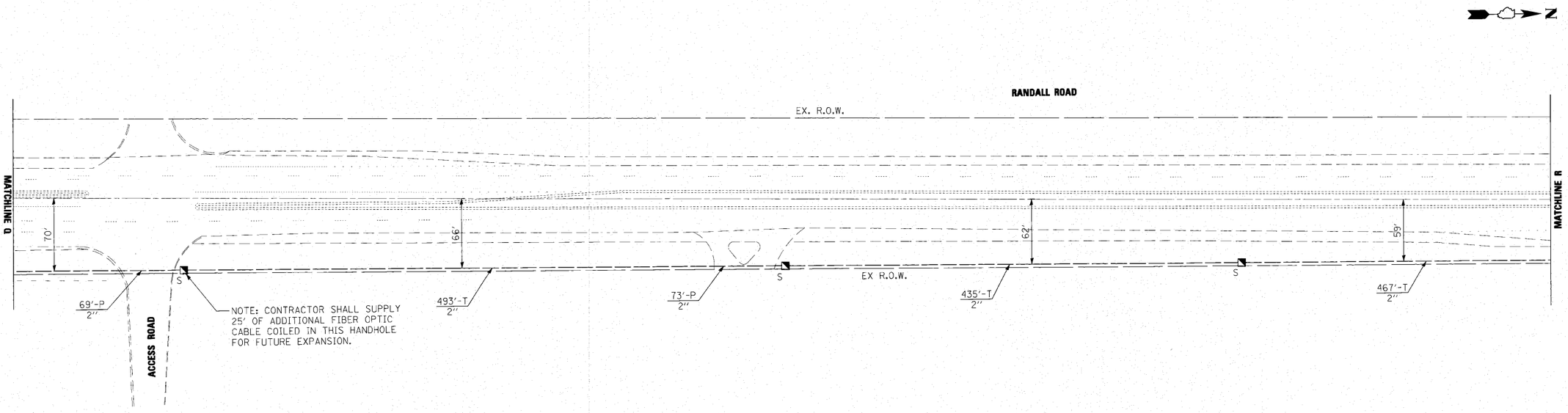
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00379-00-TL	KANE	36	19
		CONTRACT NO. 63520		
	ILLINOIS FED. AID PROJECT CMM-9003(147)			

RANDALL ROAD AT HUNTLEY ROAD NOTES:
1. REMOVE EXISTING TRAFFIC SIGNAL CONTROLLER FROM TRAFFIC SIGNAL CONTROLLER CABINET.
2. REMOVE EXISTING MALFUNCTION MANAGEMENT UNIT (MMU) FROM TRAFFIC SIGNAL CONTROLLER CABINET.
3. REMOVE EXISTING UNINTERRUPTIBLE POWER SUPPLY (UPS) FROM TRAFFIC SIGNAL CONTROLLER CABINET.
4. INSTALL NEW TRAFFIC SIGNAL CONTROLLER INTO EXISTING TRAFFIC SIGNAL CONTROLLER CABINET.
5. INSTALL NEW MALFUNCTION MANAGEMENT UNIT (MMU) INTO EXISTING TRAFFIC SIGNAL CONTROLLER CABINET.
6. INSTALL PTZ CAMERA AND ASSOCIATED CONTROL EQUIPMENT
7. INSTALL NEW UNINTERRUPTIBLE POWER SUPPLY AND SEPARATE CABINET MOUNTED TO THE OUTSIDE OF THE TRAFFIC SIGNAL CABINET
8. SEE SHEETS 34-36 FOR AN EQUIPMENT LIST FOR ETHERNET INTERFACE AND COMMUNICATIONS UPGRADE



THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED

1	EACH	TRAFFIC SIGNAL CONTROLLER
1	EACH	MALFUNCTION MANAGEMENT UNIT
1	EACH	UNINTERUPTIBLE POWER SUPPLY, BASIC



FILE NAME = $FILEL$	DESIGNED -	REVISED -	**KANE COUNTY DIVISION OF TRANSPORTATION**
	DRAWN -	REVISED -	
	CHECKED -	REVISED -	
	DATE -	REVISED -	

INTERCONNECT PLANS
RANDALL ROAD
SCALE: 1" = 50' | SHEET NO. 20 OF 36 SHEETS | STA. | TO STA.

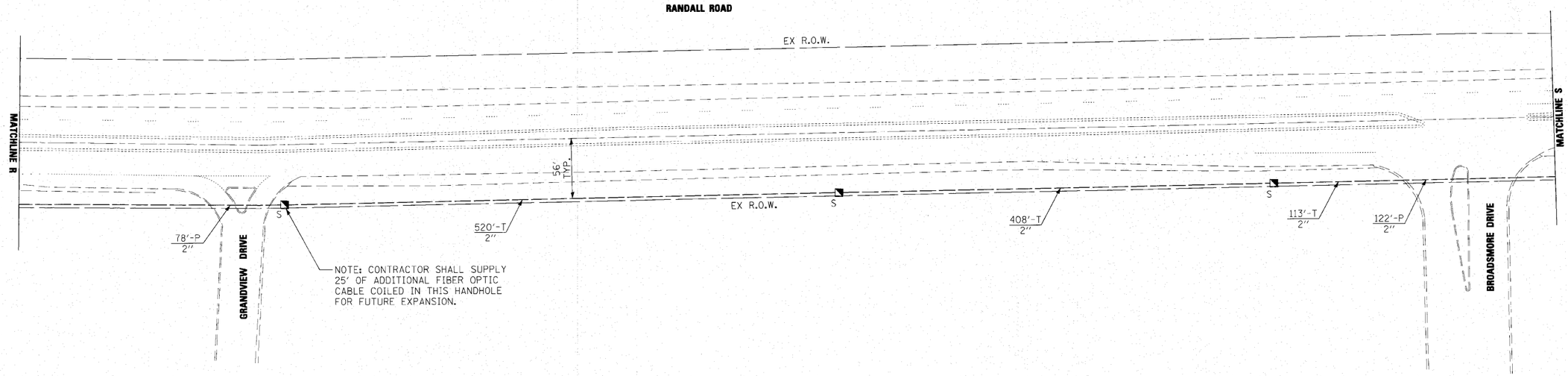
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00379-00-TL	KANE	36	20
		CONTRACT NO. 63520		
		ILLINOIS FED. AID PROJECT CMM-9003(147)		

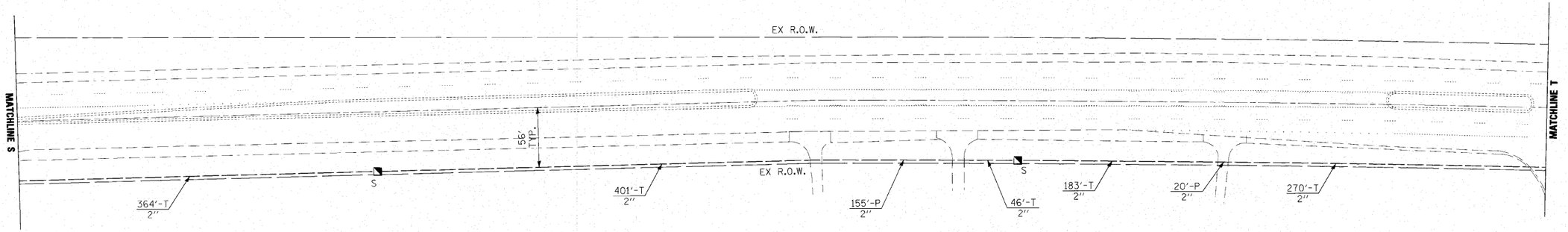
P. AN
NOTE BOOK
NO.

SURVEYED	BY
PLOTTED	
PLANS CHECKED	
ALIGNMENT, CHECKED	
P.I. OF R/W CHECKED	
CADD FILE NAME	DATE

PROFILE
NOTE BOOK
NO.

SURVEYED	BY
PLOTTED	
PLANS CHECKED	
S.M. NOTED	
STRUCTURE NO.(TYPE GRID)	





FILE NAME = $FILEL$		DESIGNED -	REVISED -
		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

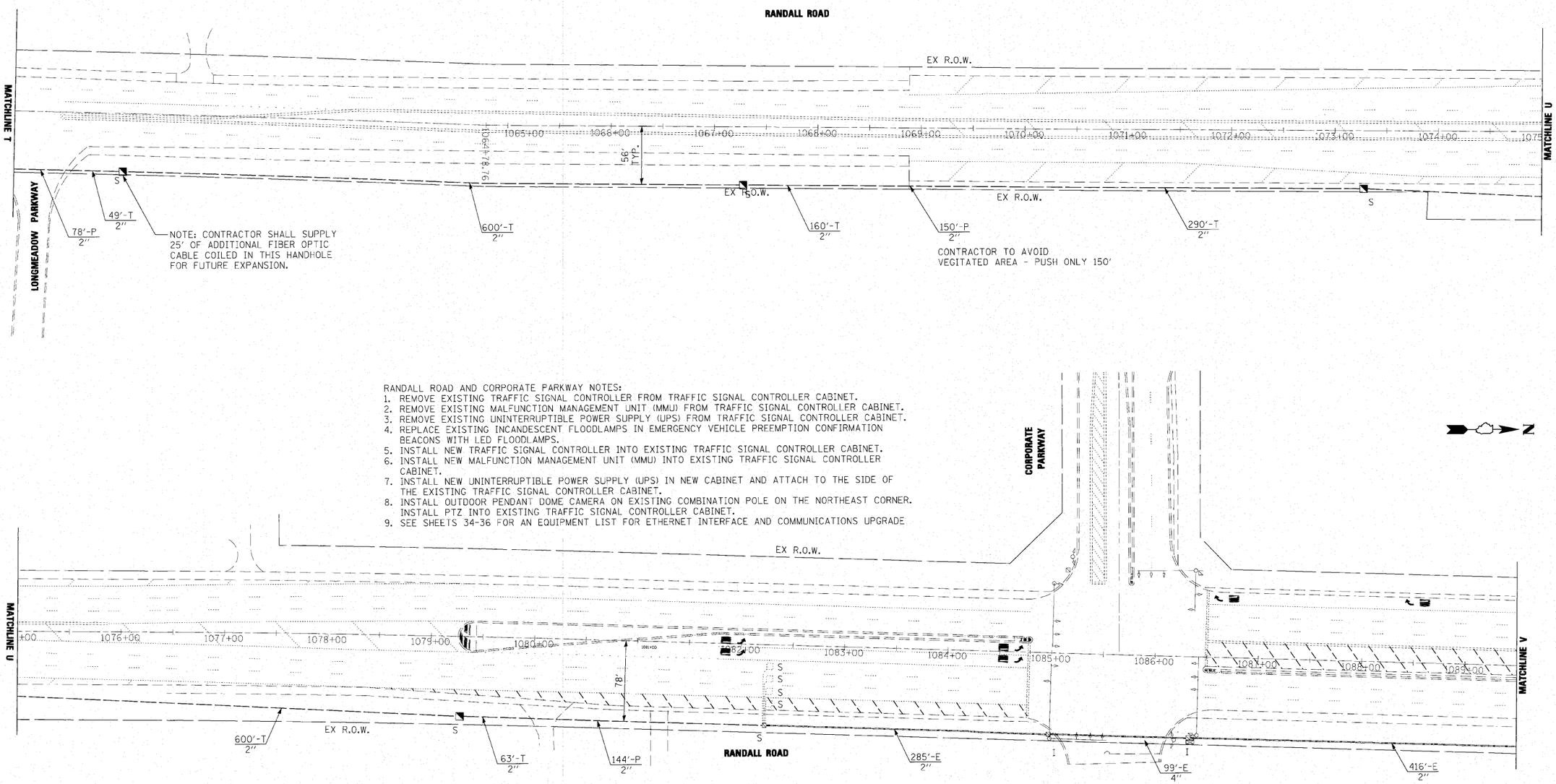
KANE COUNTY
DIVISION OF TRANSPORTATION

INTERCONNECT PLANS
RANDALL ROAD

SCALE: 1" = 50' | SHEET NO. 21 OF 36 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00379-00-TL	KANE	36	21
		CONTRACT NO. 63520		
	ILLINOIS FED. AID PROJECT CMM-9003(147)			

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
NOTE BOOK
NO.
CADD FILE NAME
BY
DATE



RANDALL ROAD AND CORPORATE PARKWAY NOTES:
1. REMOVE EXISTING TRAFFIC SIGNAL CONTROLLER FROM TRAFFIC SIGNAL CONTROLLER CABINET.
2. REMOVE EXISTING MALFUNCTION MANAGEMENT UNIT (MMU) FROM TRAFFIC SIGNAL CONTROLLER CABINET.
3. REMOVE EXISTING UNINTERRUPTIBLE POWER SUPPLY (UPS) FROM TRAFFIC SIGNAL CONTROLLER CABINET.
4. REPLACE EXISTING INCANDESCENT FLOODLAMPS IN EMERGENCY VEHICLE PREEMPTION CONFIRMATION BEACONS WITH LED FLOODLAMPS.
5. INSTALL NEW TRAFFIC SIGNAL CONTROLLER INTO EXISTING TRAFFIC SIGNAL CONTROLLER CABINET.
6. INSTALL NEW MALFUNCTION MANAGEMENT UNIT (MMU) INTO EXISTING TRAFFIC SIGNAL CONTROLLER CABINET.
7. INSTALL NEW UNINTERRUPTIBLE POWER SUPPLY (UPS) IN NEW CABINET AND ATTACH TO THE SIDE OF THE EXISTING TRAFFIC SIGNAL CONTROLLER CABINET.
8. INSTALL OUTDOOR PENDANT DOME CAMERA ON EXISTING COMBINATION POLE ON THE NORTHEAST CORNER. INSTALL PTZ INTO EXISTING TRAFFIC SIGNAL CONTROLLER CABINET.
9. SEE SHEETS 34-36 FOR AN EQUIPMENT LIST FOR ETHERNET INTERFACE AND COMMUNICATIONS UPGRADE

PROFILE
SURVEYED
PLOTTED
ALIGNMENT CHECKED
R.O.W. NOTED
NOTE BOOK
NO.
STRUCTURE NO'S (PKD)
BY

FILE NAME		DESIGNED -	REVISED -
$FILE$		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE	REVISED -

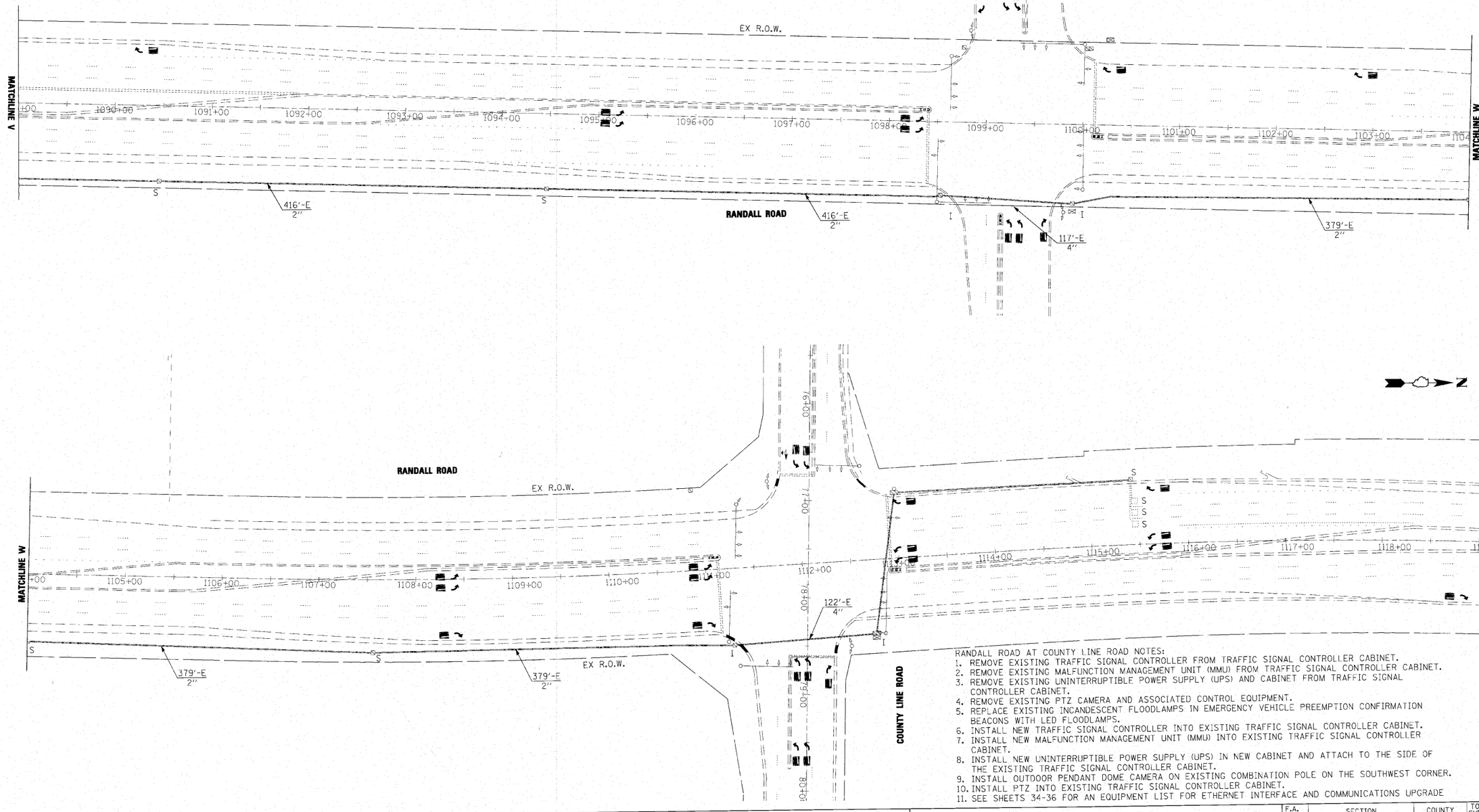
KANE COUNTY
DIVISION OF TRANSPORTATION

INTERCONNECT PLANS
RANDALL ROAD

SCALE: 1" = 50' | SHEET NO. 22 OF 36 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00379-00-TL	KANE	36	22
		CONTRACT NO. 63520		
	ILLINOIS	FED. AID PROJECT CMM-9003(147)		

RANDALL ROAD AT COMMONS DRIVE NOTES:
1. REMOVE EXISTING TRAFFIC SIGNAL CONTROLLER FROM TRAFFIC SIGNAL CONTROLLER CABINET.
2. REMOVE EXISTING MALFUNCTION MANAGEMENT UNIT (MMU) FROM TRAFFIC SIGNAL CONTROLLER CABINET.
3. REMOVE EXISTING UNINTERRUPTIBLE POWER SUPPLY (UPS) AND CABINET FROM TRAFFIC SIGNAL CONTROLLER CABINET.
4. REPLACE EXISTING INCANDESCENT FLOODLAMPS IN EMERGENCY VEHICLE PREEMPTION CONFIRMATION BEACONS WITH LED FLOODLAMPS.
5. INSTALL NEW TRAFFIC SIGNAL CONTROLLER INTO EXISTING TRAFFIC SIGNAL CONTROLLER CABINET.
6. INSTALL NEW MALFUNCTION MANAGEMENT UNIT (MMU) INTO EXISTING TRAFFIC SIGNAL CONTROLLER CABINET.
7. INSTALL NEW UNINTERRUPTIBLE POWER SUPPLY (UPS) IN NEW CABINET AND ATTACH TO THE SIDE OF THE EXISTING TRAFFIC SIGNAL CONTROLLER CABINET.
8. INSTALL OUTDOOR PENDANT DOME CAMERA ON EXISTING COMBINATION POLE ON THE NORTHEAST CORNER.
9. INSTALL PTZ INTO EXISTING TRAFFIC SIGNAL CONTROLLER CABINET.
SEE SHEETS 34-36 FOR AN EQUIPMENT LIST FOR ETHERNET INTERFACE AND COMMUNICATIONS UPGRADE



RANDALL ROAD AT COUNTY LINE ROAD NOTES:
1. REMOVE EXISTING TRAFFIC SIGNAL CONTROLLER FROM TRAFFIC SIGNAL CONTROLLER CABINET.
2. REMOVE EXISTING MALFUNCTION MANAGEMENT UNIT (MMU) FROM TRAFFIC SIGNAL CONTROLLER CABINET.
3. REMOVE EXISTING UNINTERRUPTIBLE POWER SUPPLY (UPS) AND CABINET FROM TRAFFIC SIGNAL CONTROLLER CABINET.
4. REMOVE EXISTING PTZ CAMERA AND ASSOCIATED CONTROL EQUIPMENT.
5. REPLACE EXISTING INCANDESCENT FLOODLAMPS IN EMERGENCY VEHICLE PREEMPTION CONFIRMATION BEACONS WITH LED FLOODLAMPS.
6. INSTALL NEW TRAFFIC SIGNAL CONTROLLER INTO EXISTING TRAFFIC SIGNAL CONTROLLER CABINET.
7. INSTALL NEW MALFUNCTION MANAGEMENT UNIT (MMU) INTO EXISTING TRAFFIC SIGNAL CONTROLLER CABINET.
8. INSTALL NEW UNINTERRUPTIBLE POWER SUPPLY (UPS) IN NEW CABINET AND ATTACH TO THE SIDE OF THE EXISTING TRAFFIC SIGNAL CONTROLLER CABINET.
9. INSTALL OUTDOOR PENDANT DOME CAMERA ON EXISTING COMBINATION POLE ON THE SOUTHWEST CORNER.
10. INSTALL PTZ INTO EXISTING TRAFFIC SIGNAL CONTROLLER CABINET.
11. SEE SHEETS 34-36 FOR AN EQUIPMENT LIST FOR ETHERNET INTERFACE AND COMMUNICATIONS UPGRADE

PLAN: SURVEYED, PLOTTED, RT. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO.
PROFILE: SURVEYED, PLOTTED, GRADES CHECKED, ALIGNMENT, STR.CTURE NO'S/ATK'S CHKD, BY, DATE

FILE NAME		DESIGNED -	REVISED -
$FILE$		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

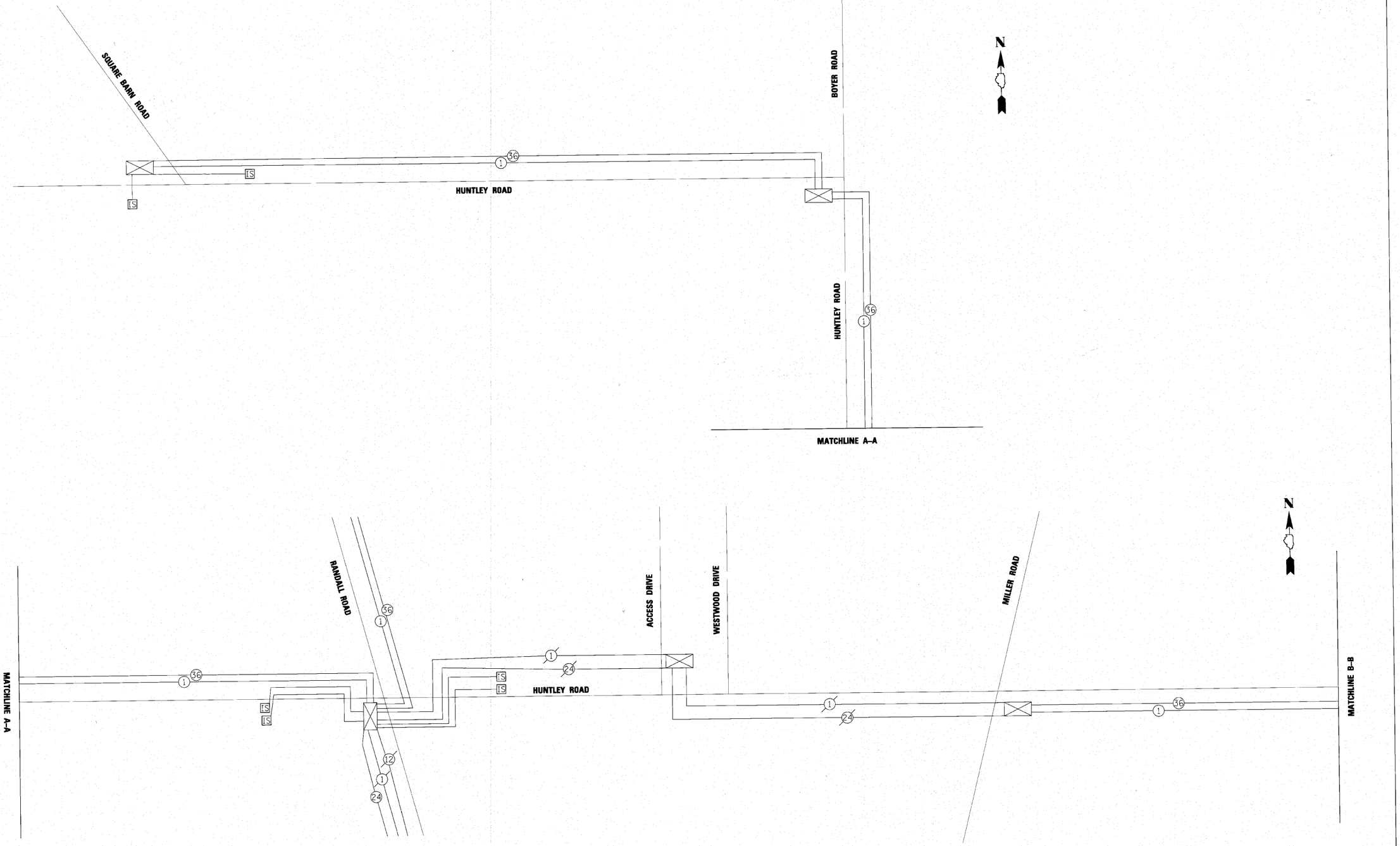
KANE COUNTY
DIVISION OF TRANSPORTATION

INTERCONNECT PLANS
RANDALL ROAD

SCALE: 1" = 50' | SHEET NO. 23 OF 36 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00379-00-TL	KANE	36	23
		CONTRACT NO. 63520		
		ILLINOIS FED. AID PROJECT CMM-9003(147)		

PLAN	SURVEYED	BY
	PLOTTED	
NOTE BOOK	REVISIONS (NOT CHECKED)	
NO.	RT. OF WAY CHECKED	
	ADD'L FILE NAME	DATE



PROFILE	SURVEYED	BY
	PLOTTED	
NOTE BOOK	GRADES CHECKED	
NO.	R/W MONUMENTED	
	STRUCTURE NO'S/ATR'S CHKD	

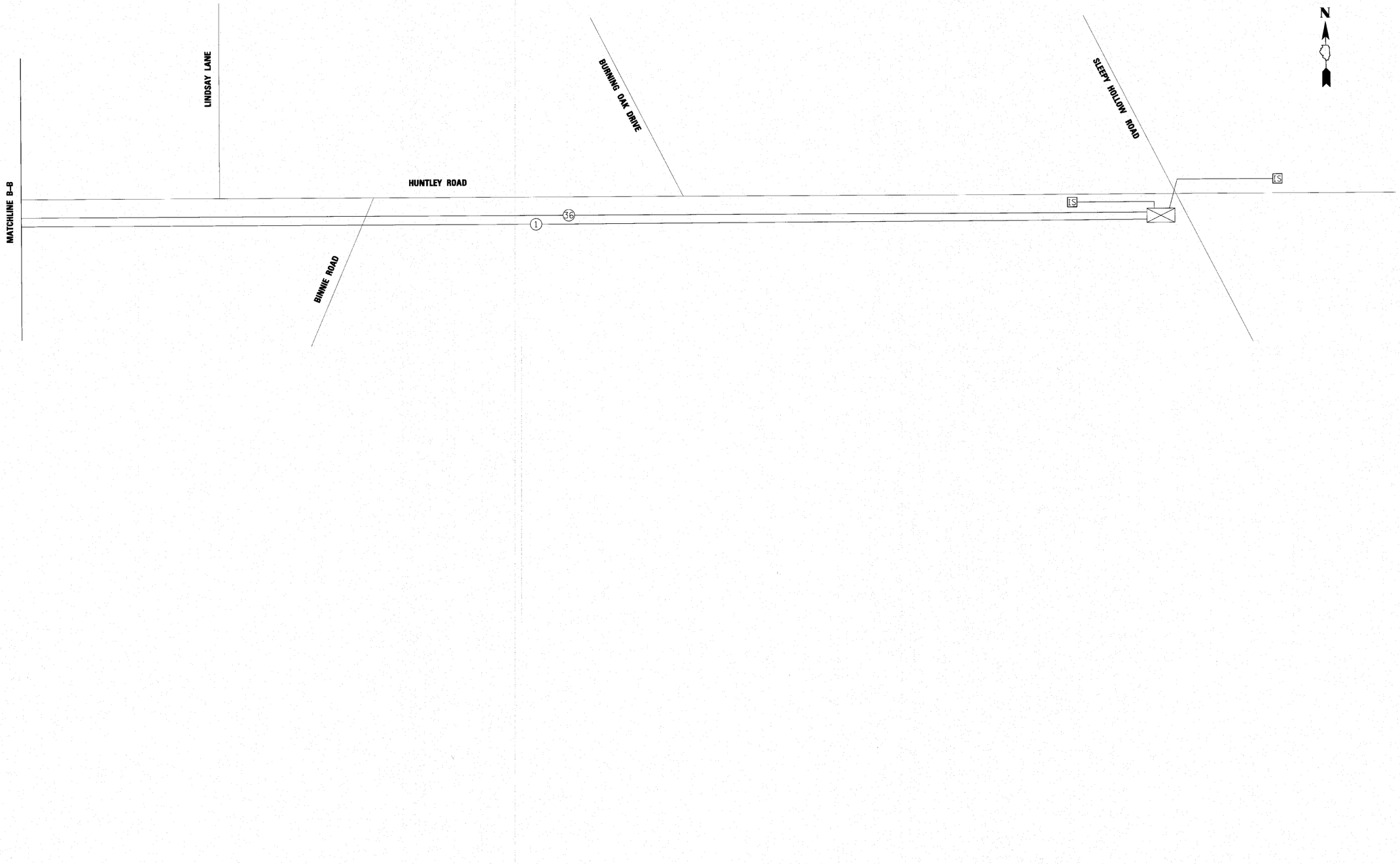
FILE NAME = $FILEL$		DESIGNED -	REVISED -
		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

KANE COUNTY
DEPARTMENT OF TRANSPORTATION

INTERCONNECT SCHEMATIC
HUNTLEY ROAD FROM SQUARE BARD ROAD TO MILLER ROAD

SCALE: 1" = 50' | SHEET NO. 24 OF 36 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00379-00-TL	KANE	36	24
		CONTRACT NO. 63520		
	ILLINOIS	FED. AID PROJECT CMM-9003(147)		



PLAN
SURVEYED
PLOTTED
NOTE BOOK
NO.
ALIGNMENT CHECKED
R.O.W. CHECKED
DTM FILE NAME

BY	DATE

PROFILE
SURVEYED
PLOTTED
NOTE BOOK
NO.
CROSS SECTIONS (RECALL)
SUM. NOTES
STRUC. JOB NOTATNS CHKD

BY

FILE NAME = $FILEL$

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

KANE COUNTY
DEPARTMENT OF TRANSPORTATION

INTERCONNECT SCHEMATIC
HUNTLEY ROAD FROM LINDSAY LANE TO SLEEPY HOLLOW ROAD

SCALE: 1" = 50' | SHEET NO. 25 OF 36 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00379-00-TL	KANE	36	25
		CONTRACT NO. 63520		
	ILLINOIS	FED. AID PROJECT CMM-9003(147)		

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NOTE BOOK
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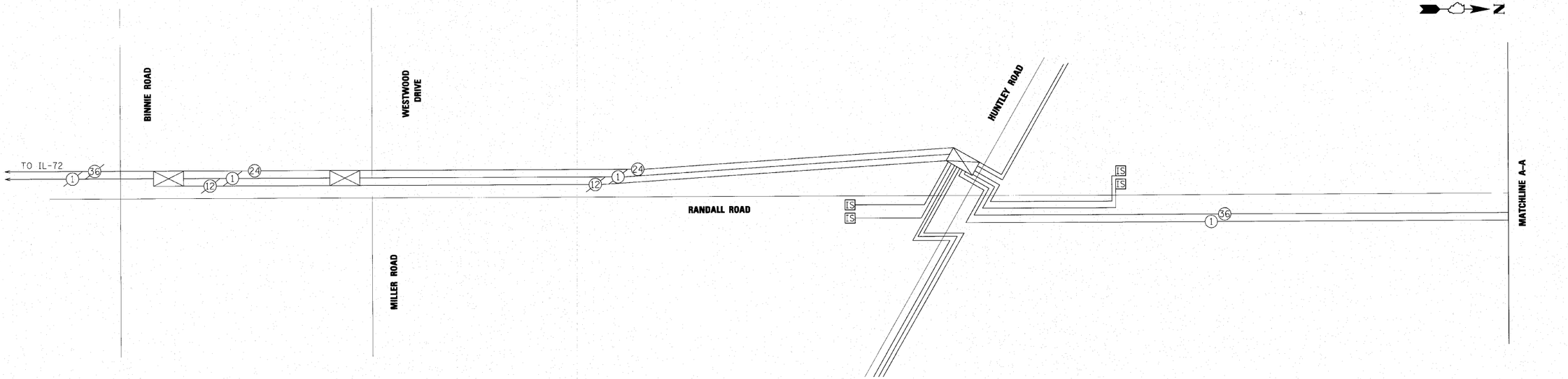

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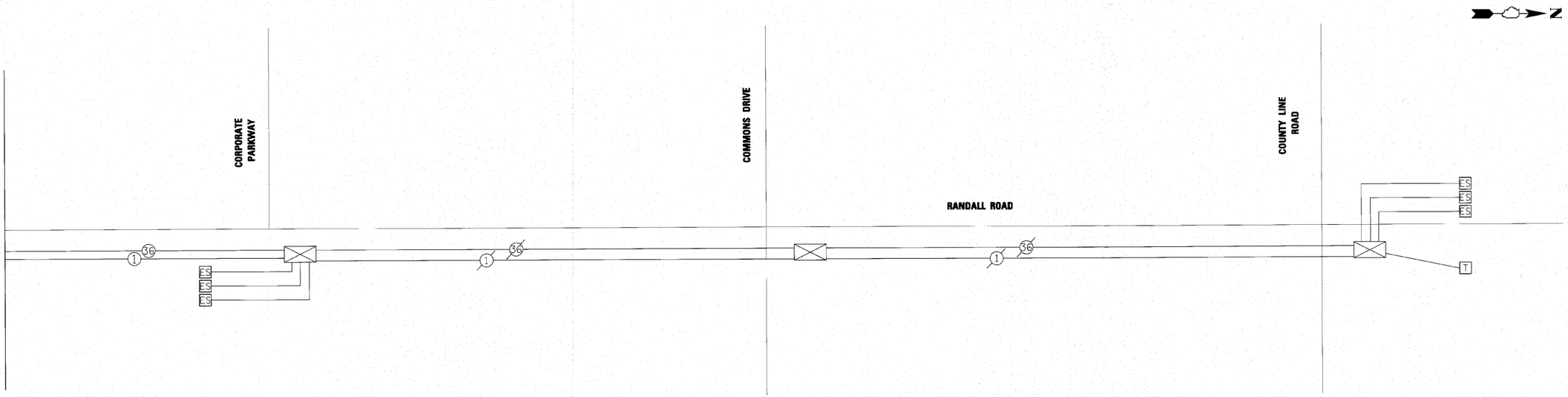

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		DATE -	REVISED -

KANE COUNTY
DEPARTMENT OF TRANSPORTATION

INTERCONNECT SCHEMATIC
RANDALL ROAD FROM BINNIE ROAD TO COUNTY LINE ROAD

SCALE: 1" = 50' | SHEET NO. 26 OF 36 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00379-00-TL	KANE	36	26
		CONTRACT NO. 63520		
	ILLINOIS	FED. AID PROJECT CMM-9003(147)		

LOOP DETECTOR NOTES

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.

2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.

3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.

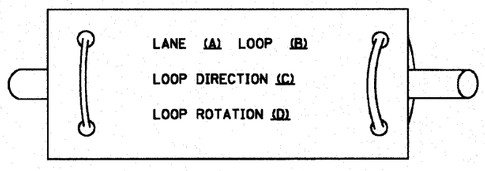
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.

5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.

6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.

7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

LOOP LEAD-IN CABLE TAG

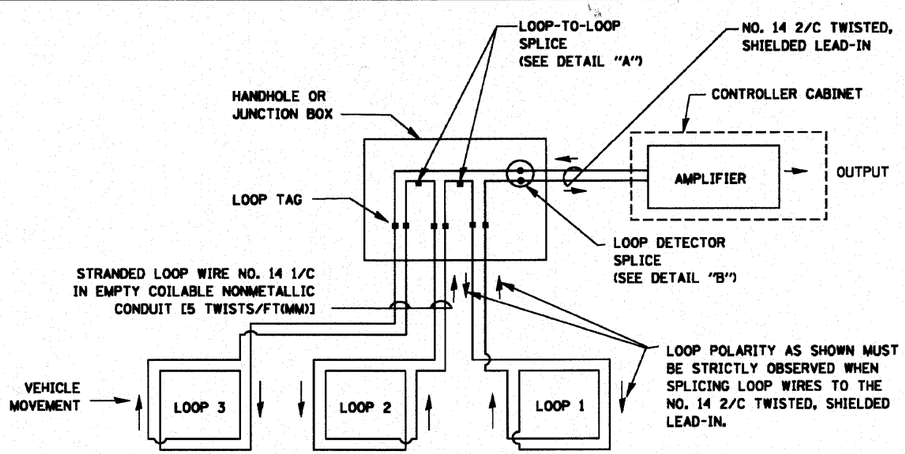


A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY

B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.

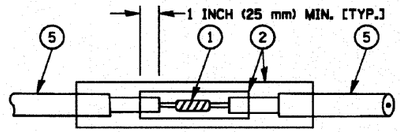
C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".

D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

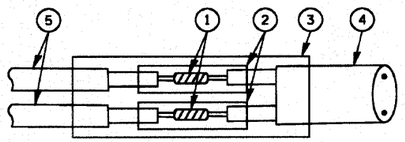


DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.

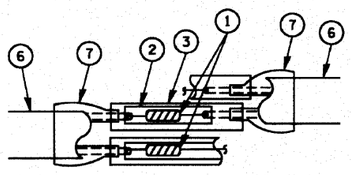


DETAIL "A"
LOOP-TO-LOOP SPLICE



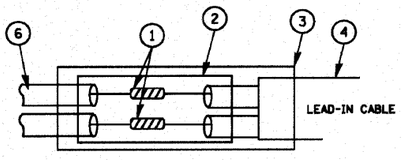
DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE

PRE-FORMED LOOP



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

LOOP DETECTOR SPLICE

(1) WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH.

(2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.

(3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER GRADE.

(4) NO. 14 2/C TWISTED, SHIELDED CABLE.

(5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.

(6) PRE-FORMED LOOP

(7) XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

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	PLOT DATE = 10/6/2009	DATE - 10/28/09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

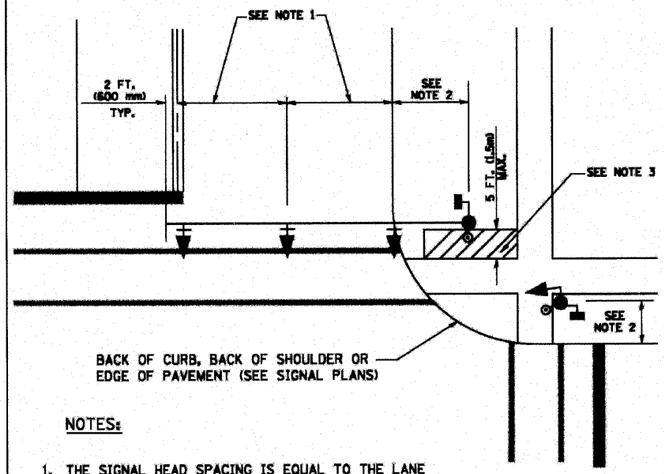
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: | SHEET NO. 1 OF 6 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00379-00-TL	KANE	36	27
		CONTRACT NO. 63520		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT CMM-9003(147)		

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

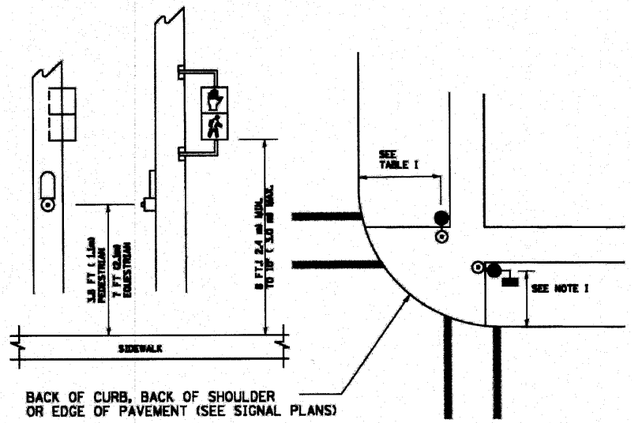
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



NOTES:

1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

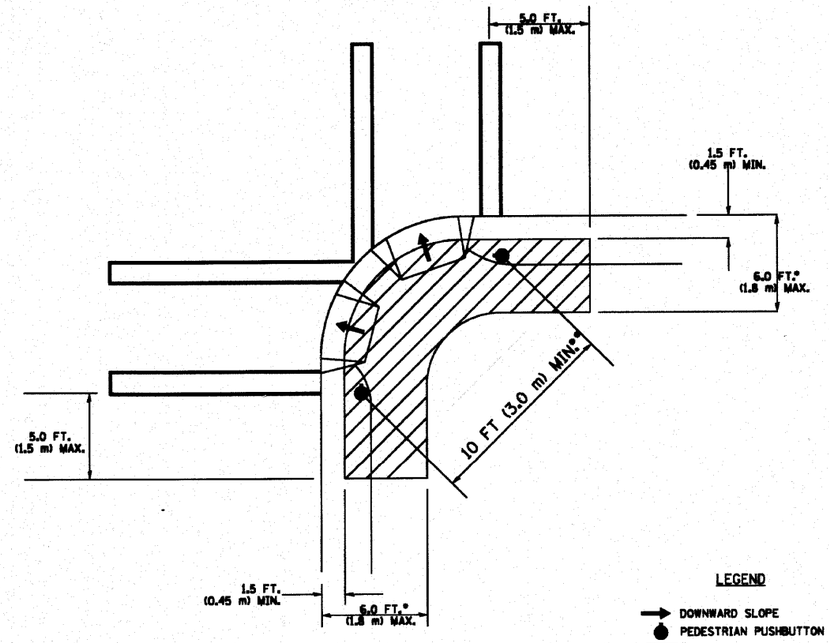
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

RECOMMENDED PUSHBUTTON LOCATIONS



- WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.

•• WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPARATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

TRAFFIC SIGNAL EQUIPMENT OFFSET

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

NOTES:

1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TO THE ROADWAY SIDE OF THE FOUNDATION.
4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

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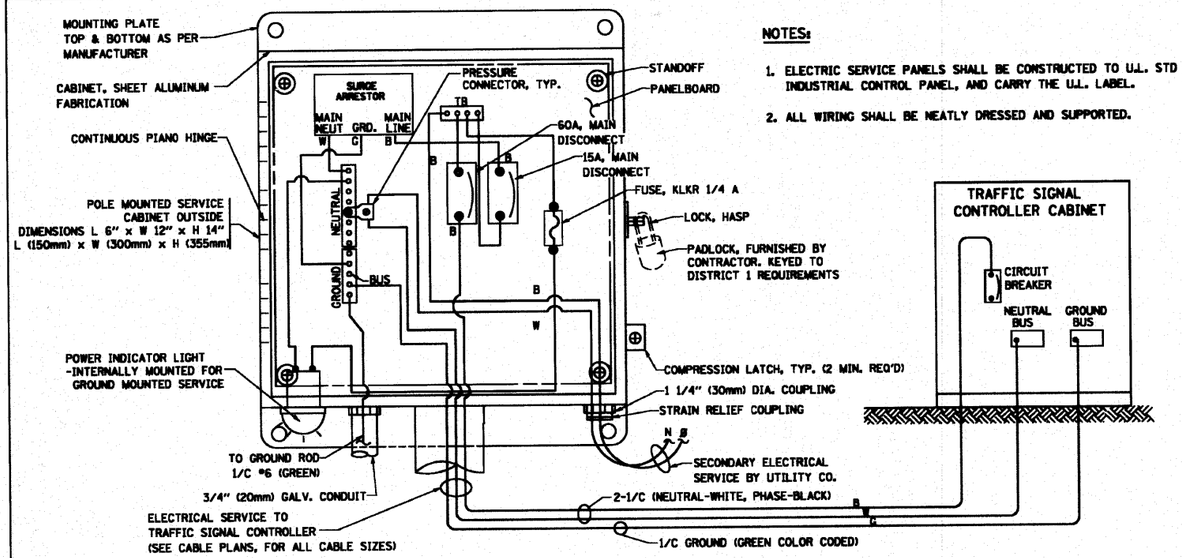
	PLOT DATE = 10/6/2009	DATE - 10/28/09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: | SHEET NO. 2 OF 6 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00379-00-TL	KANE	36	28
		CONTRACT NO. 63520		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT CMM-9003(147)		



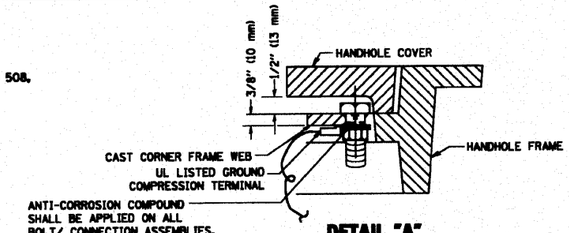
NOTES:

1. ELECTRIC SERVICE PANELS SHALL BE CONSTRUCTED TO U.L. STD 508, INDUSTRIAL CONTROL PANEL, AND CARRY THE U.L. LABEL.
2. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.

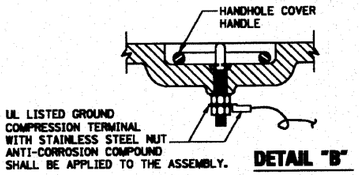
ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)

SERVICE INSTALLATION POLE MOUNT (SHOWN)

(NOT TO SCALE)



DETAIL "A"

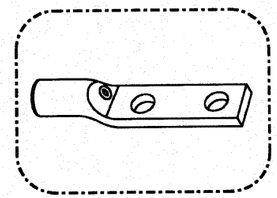


DETAIL "B"

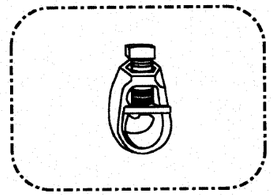
NOTES:

GROUNDING SYSTEM

1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD. ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
2. THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
3. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
4. THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.



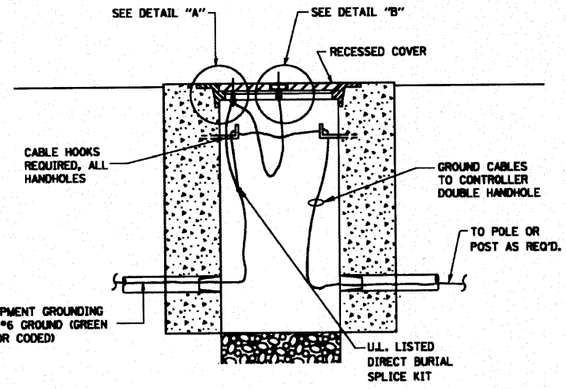
HEAVY-DUTY COMPRESSION TERMINAL (BURNDY TYPE YGHA OR APPROVED EQUAL)



3/4" (20mm) HEAVY-DUTY GROUND ROD CLAMP (BURNDY TYPE GRC OR APPROVED EQUAL)

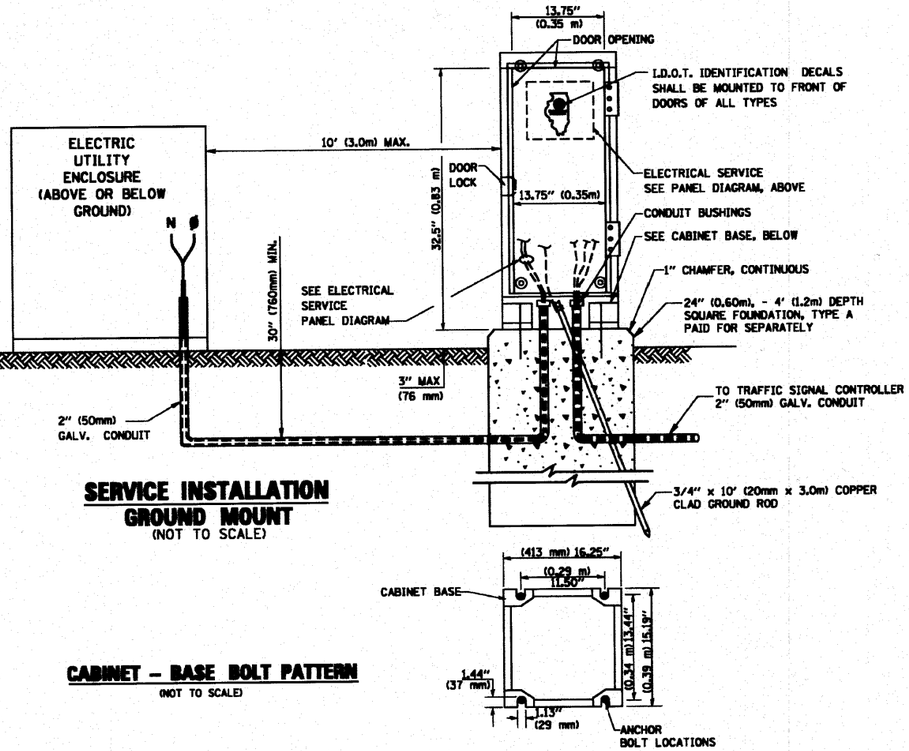
NOTES:

- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
- GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES
  6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES
  13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES.
  5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)

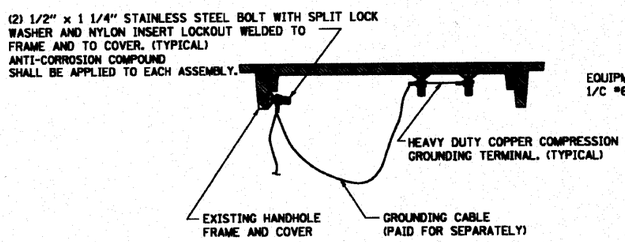


SERVICE INSTALLATION GROUND MOUNT

(NOT TO SCALE)

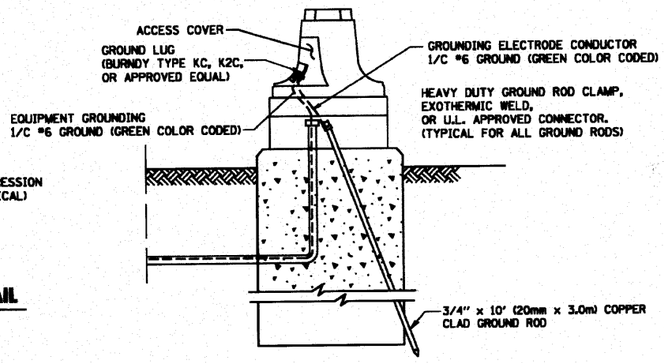
CABINET – BASE BOLT PATTERN

(NOT TO SCALE)



EXISTING HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)



MAST ARM POLE / POST-GROUNDING DETAIL

(NOT TO SCALE)

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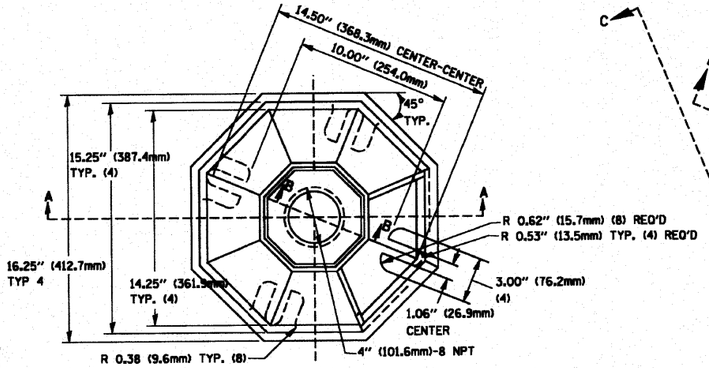
	PLOT DATE = 10/6/2009	DATE - 10/28/09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

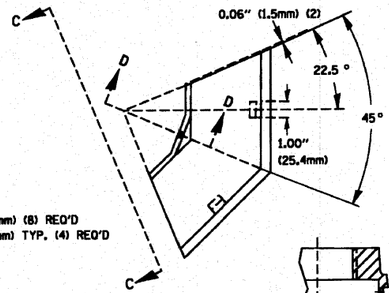
DISTRICT 1
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

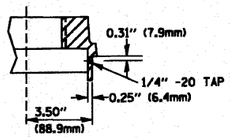
SCALE: | SHEET NO. 3 OF 6 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00379-00-TL	KANE	36	29
		CONTRACT NO. 63520		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT CMM-9003(147)		

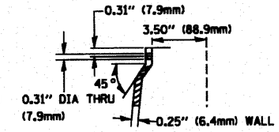


TOP VIEW





SECTION B-B



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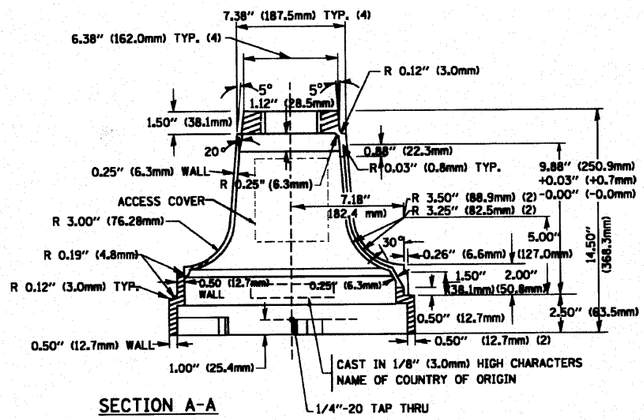
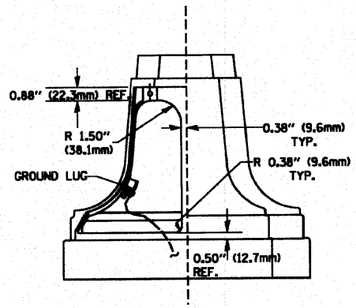
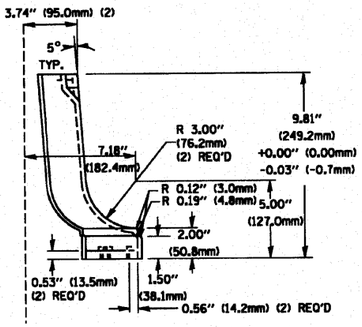


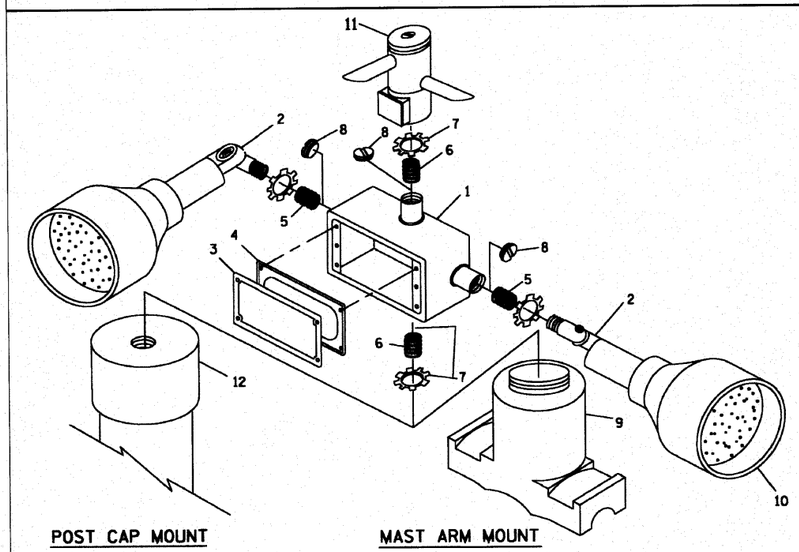
SECTION A-A



VIEW C-C



TRAFFIC SIGNAL POST - MOUNTING BASE - TYPE A



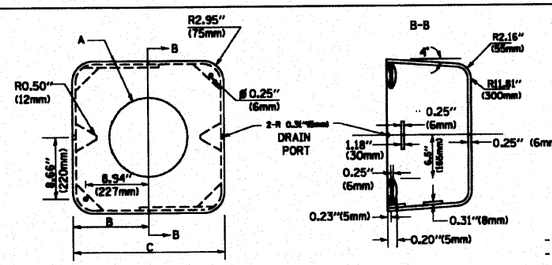
POST CAP MOUNT MAST ARM MOUNT

EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	¾"(19 mm) CLOSE NIPPLE
7	¾"(19 mm) LOCKNUT
8	¾"(19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

NOTES:

1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
   ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT
   ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A ¾"(19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



MATERIAL:
- ASTM A36 STEEL
- ASTM A-123 HOT DIPPED GALVANIZED

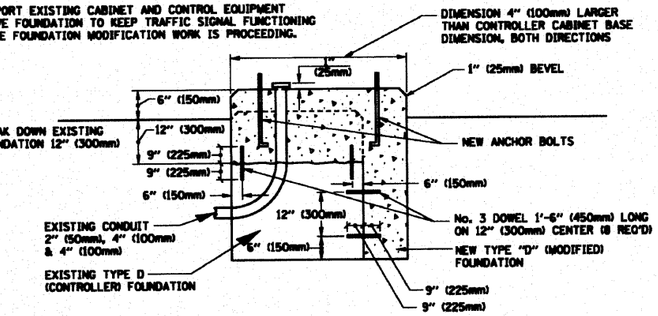
A	B	C	HEIGHT	WEIGHT
VARIES	9.5"(241mm)	19"(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIES	10.75"(273mm)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIES	13.0"(330mm)	26"(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIES	18.5"(470mm)	37"(940mm)	7" (178mm) - 12" (300mm)	126 lbs (57 kg)

SHROUD

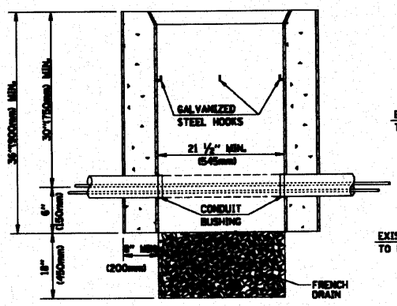
NOTES:

1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

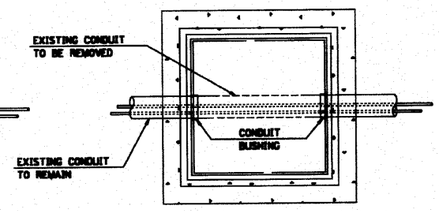
NOTE:
SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



MODIFY EXISTING TYPE "D" FOUNDATION



ELEVATION



PLAN

NOTES:

1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCIDENTAL TO THE HANDHOLE.

HANDHOLE TO INTERCEPT EXISTING CONDUIT

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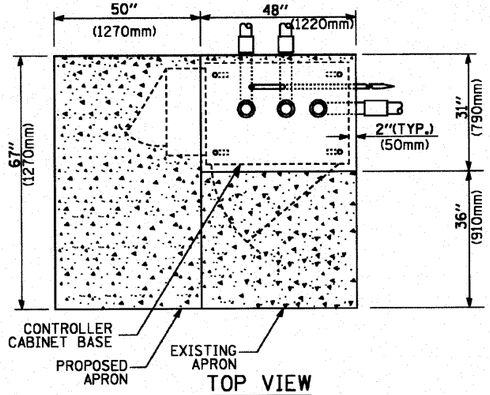
	PLOT SCALE = 20.0000 ' / IN.	CHECKED - DAD	REVISED -
	PLOT DATE = 10/6/2009	DATE - 10/28/09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

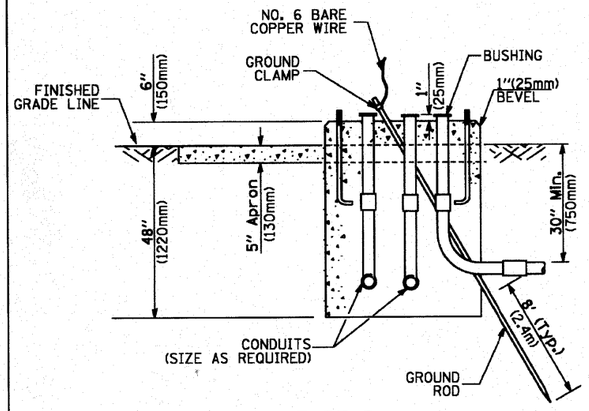
DISTRICT 1
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: | SHEET NO. 4 OF 6 SHEETS | STA. | TO STA.

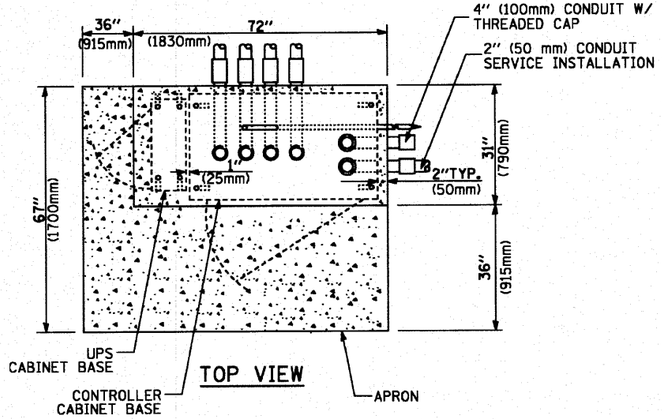
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00379-00-TL	KANE	36	30
		CONTRACT NO. 63520		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT CMM-9003(147)		



TOP VIEW



TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET



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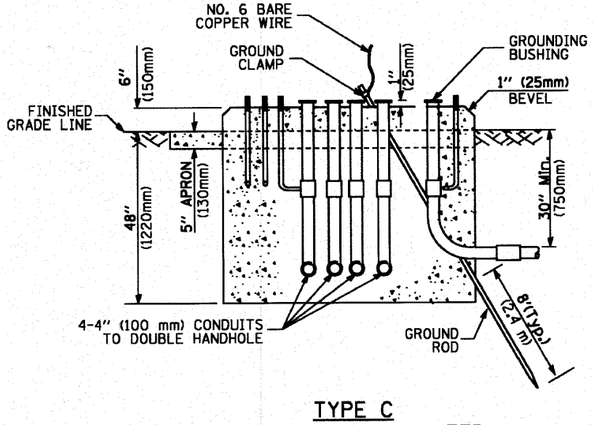
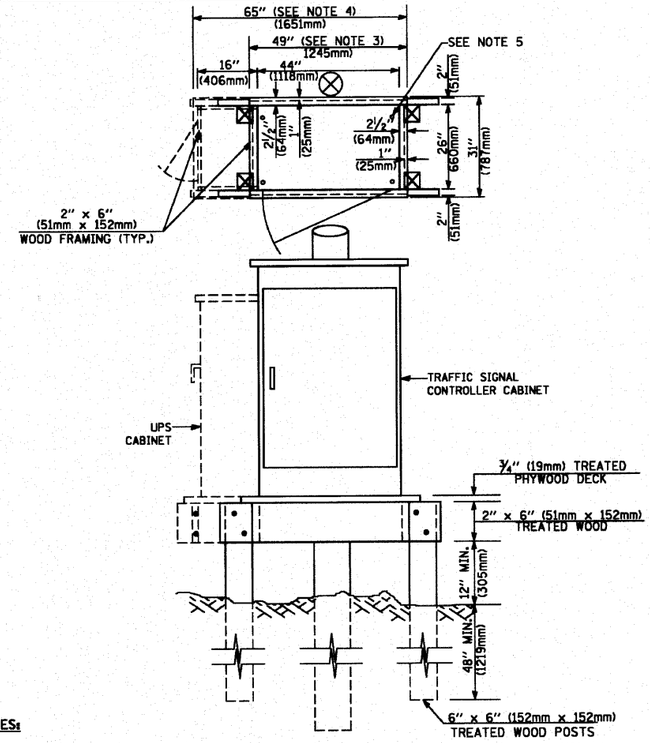


TYPE C
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET



NOTES:

1. BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
5. DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
6. FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

CABLE SLACK

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD) (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

VERTICAL CABLE LENGTH

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m)
TYPE D - CONTROLLER	4'-0" (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0" (1.2m)

DEPTH OF FOUNDATION

Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

NOTES:

1. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (Qu) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & structures should be contacted for a revised design if other conditions are encountered.
2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
3. Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations.
4. For mast arm assemblies with dual arms refer to state standard 878001.

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

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		DATE - 10/28/09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: | SHEET NO. 5 OF 6 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00379-00-TL	KANE	36	31
		CONTRACT NO. 63520		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT CMM-9003(147)		

TRAFFIC SIGNAL LEGEND

ITEM	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET	R		
RAILROAD CONTROL CABINET			
COMMUNICATIONS CABINET	R CC	ECC	CC
MASTER CONTROLLER		EMC	MC
MASTER MASTER CONTROLLER		EMMC	MMC
UNINTERRUPTIBLE POWER SUPPLY	R UPS	EUPS	UPS
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT	R	P	P
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT	R T	P T	P T
STEEL MAST ARM ASSEMBLY AND POLE	R		
ALUMINUM MAST ARM ASSEMBLY AND POLE	R		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE	R		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA	R PTZ	PTZ	PTZ
SIGNAL POST	R		
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM	R		
GUY WIRE	R		
SIGNAL HEAD	R		
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)			2
SIGNAL HEAD WITH BACKPLATE	R		
SIGNAL HEAD OPTICALLY PROGRAMMED	R "P"	"P"	"P"
FLASHER INSTALLATION (S DENOTES SOLAR POWER)	R "F"	"F"	"F"
PEDESTRIAN SIGNAL HEAD	R		
PEDESTRIAN PUSHBUTTON DETECTOR	R		
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR	R APS	APS	APS
ILLUMINATED SIGN "NO LEFT TURN"	R		
ILLUMINATED SIGN "NO RIGHT TURN"	R		
DETECTOR LOOP, TYPE I			
PREFORMED DETECTOR LOOP		P	P
MICROWAVE VEHICLE SENSOR	R R	R	R
VIDEO DETECTION CAMERA	R V	V	V
VIDEO DETECTION ZONE			
PAN, TILT, ZOOM CAMERA	R PTZ	PTZ	PTZ
WIRELESS DETECTOR SENSOR	R W	W	W
WIRELESS ACCESS POINT	R		

ITEM	REMOVAL	EXISTING	PROPOSED
EMERGENCY VEHICLE LIGHT DETECTOR	R		
CONFIRMATION BEACON	R		
HANDHOLE	R		
HEAVY DUTY HANDHOLE	R H	H	H
DOUBLE HANDHOLE	R		
JUNCTION BOX	R		
GALVANIZED STEEL CONDUIT IN TRENCH (T) OR PUSHED (P)			
TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE	R		
COMMON TRENCH			CT
COILABLE NONMETALLIC CONDUIT (EMPTY)			CNC
SYSTEM ITEM		S	S
INTERSECTION ITEM		I	IP
REMOVE ITEM	R		
RELOCATE ITEM	RL		
ABANDON ITEM	A		
12" (300mm) TRAFFIC SIGNAL SECTION		R	R
12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE		R Y G	
SIGNAL FACE		R Y G ←Y ←G	R Y G ←Y ←G
SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD		R Y G ←Y ←G "P"	R Y G ←Y ←G "P"
12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL		DW	
12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED			
12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID			
PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER		C D	C D
RADIO INTERCONNECT	R		
RADIO REPEATER	R ERR	ERR	RR
DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED		5	5
GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)		1	1

ITEM	REMOVAL	EXISTING	PROPOSED
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE		1	1
COAXIAL CABLE		C	C
VENDOR CABLE FOR CAMERA		V	V
COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED		6	6
FIBER OPTIC CABLE NO. 62.5/125, MM12F		12F	
FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F		24F	24F
FIBER OPTIC CABLE NO. 62.5/125, (NUMBER OF FIBERS & TYPE TO BE NOTED ON PLANS)			
GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE		C	C
CONTROLLER CABINET AND FOUNDATION TO BE REMOVED	RCF		
STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED	RMF		
ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED	RMF		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED	RMF		
SIGNAL POST AND FOUNDATION TO BE REMOVED	RMF		
INTERSECTION & SAMPLING (SYSTEM) DETECTOR		IS	IS
SAMPLING (SYSTEM) DETECTOR		S	S
EXISTING INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		P	
EXISTING PREFORMED INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		PP	
PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		PIS	PIS
PREFORMED SAMPLING (SYSTEM) DETECTOR		PS	PS

RAILROAD SYMBOLS

	EXISTING	PROPOSED
RAILROAD CONTROL CABINET		
RAILROAD CANTILEVER MAST ARM		
FLASHING SIGNAL		
CROSSING GATE		
CROSSBUCK		

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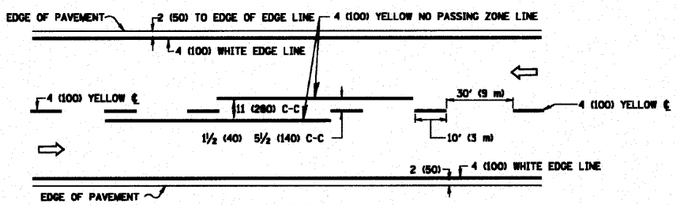
	PLOT DATE = 10/6/2009	DATE - 10/28/09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

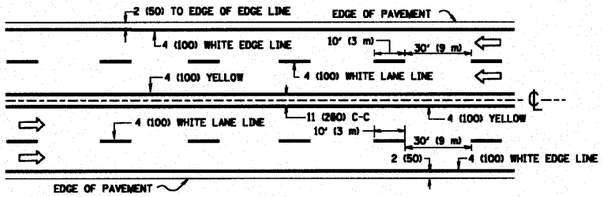
DISTRICT 1
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET NO. 6 OF 6 SHEETS | STA. | TO STA.

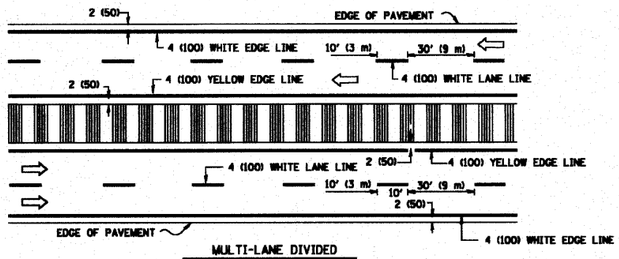
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00379-00-TL	KANE	36	32
		CONTRACT NO. 63520		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT CMM-9003(147)		



2-LANE ROADWAY



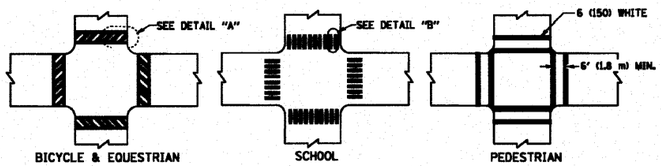
MULTI-LANE UNDIVIDED

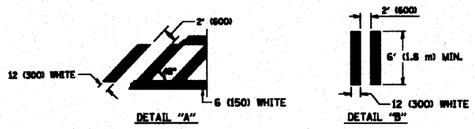


MULTI-LANE DIVIDED
WITH MOUNTABLE MEDIAN

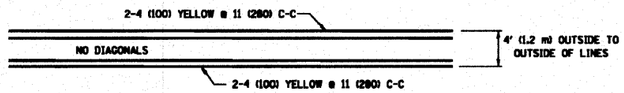
NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING

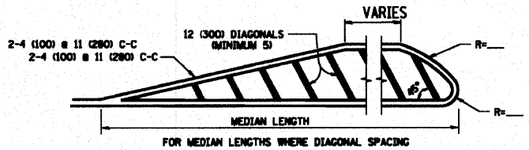




TYPICAL CROSSWALK MARKING



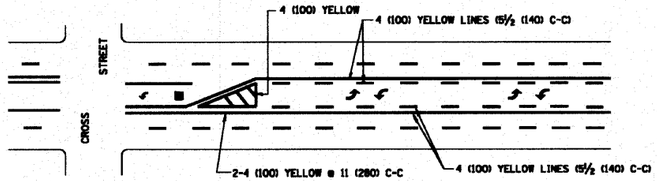
4' (1.2 m) WIDE MEDIANS ONLY



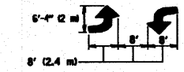
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h))
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

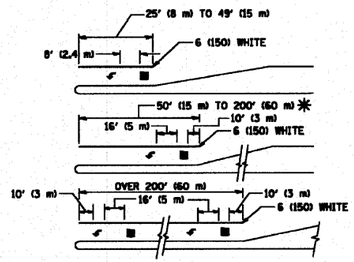


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

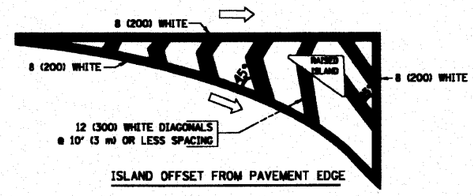


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
↰ AREA = 15.6 SQ. FT. (1.5 m^2) ⮈ AREA = 20.8 SQ. FT. (1.9 m^2)

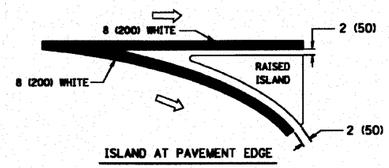
✳ TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING

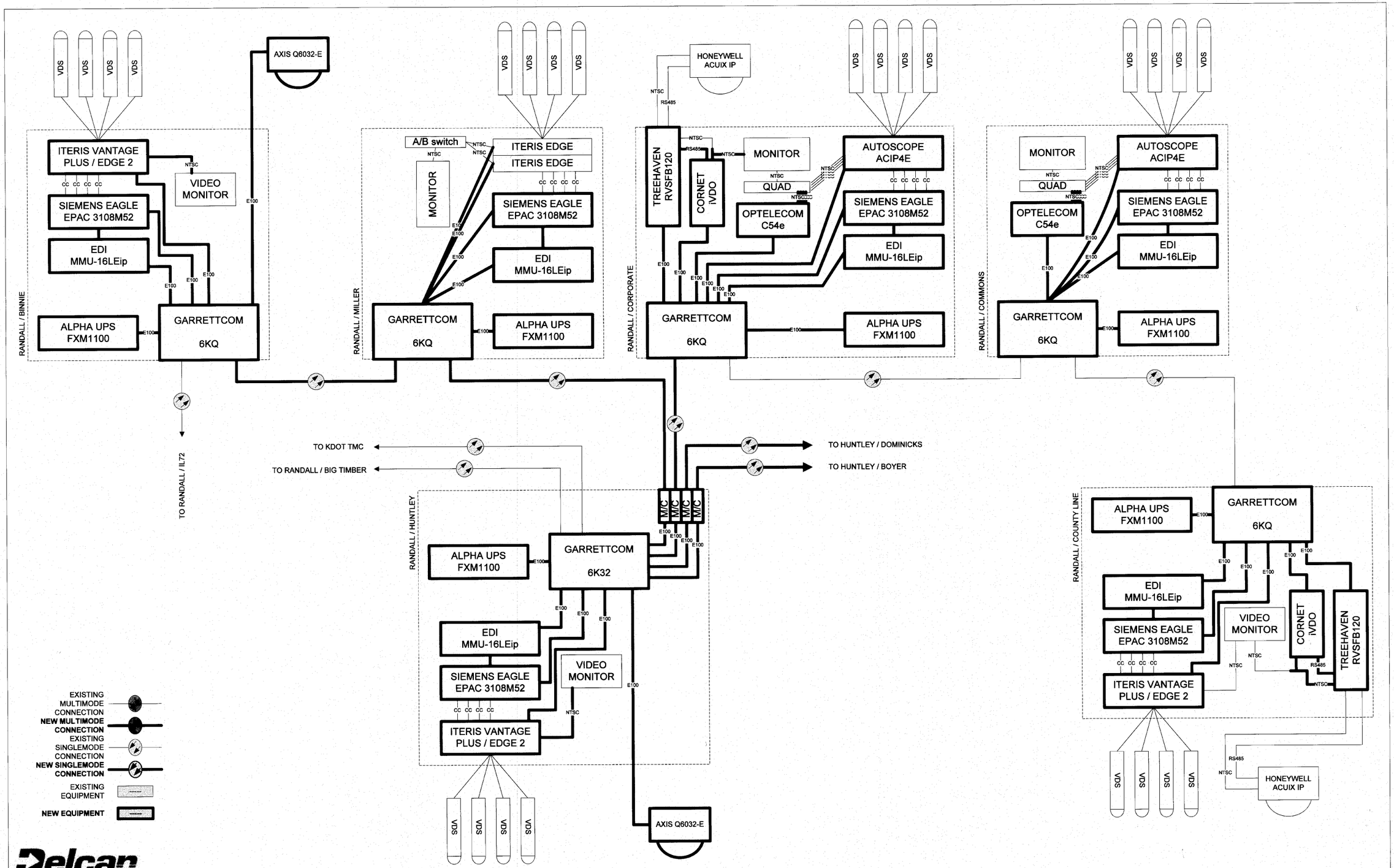
TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m^2) EACH "X"=54.0 SQ. FT. (5.0 m^2)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

FILE NAME = c:\pw_work\pwidot\drivakosgn\d0186315\ta3.dgn	USER NAME = drivakosgn	DESIGNED - EVERS	REVISED -T. RAMMACHER 10-27-94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
	PLOT SCALE = 50.000 ' / IN.	DRAWN -	REVISED -C. JUCIUS 09-09-09		SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.
	PLOT DATE = 9/9/2009	CHECKED -	REVISED -		
		DATE - 03-19-90	REVISED -		

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00379-00-TL	KANE	36	33
	TC-13	CONTRACT NO. 63520		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	CMM-9003(147)	



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FILE NAME:	DESIGNED	DJG	
	DRAWN	DJG	
	CHECKED	DJG	
	DATE	2010/10/10	

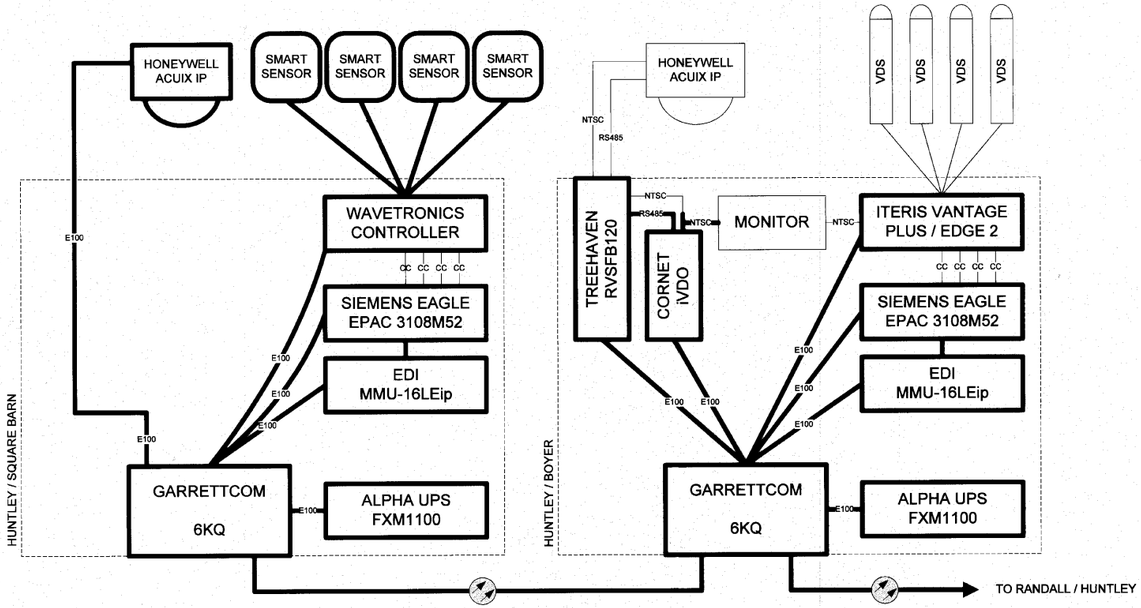
KANE COUNTY Department of Transportation

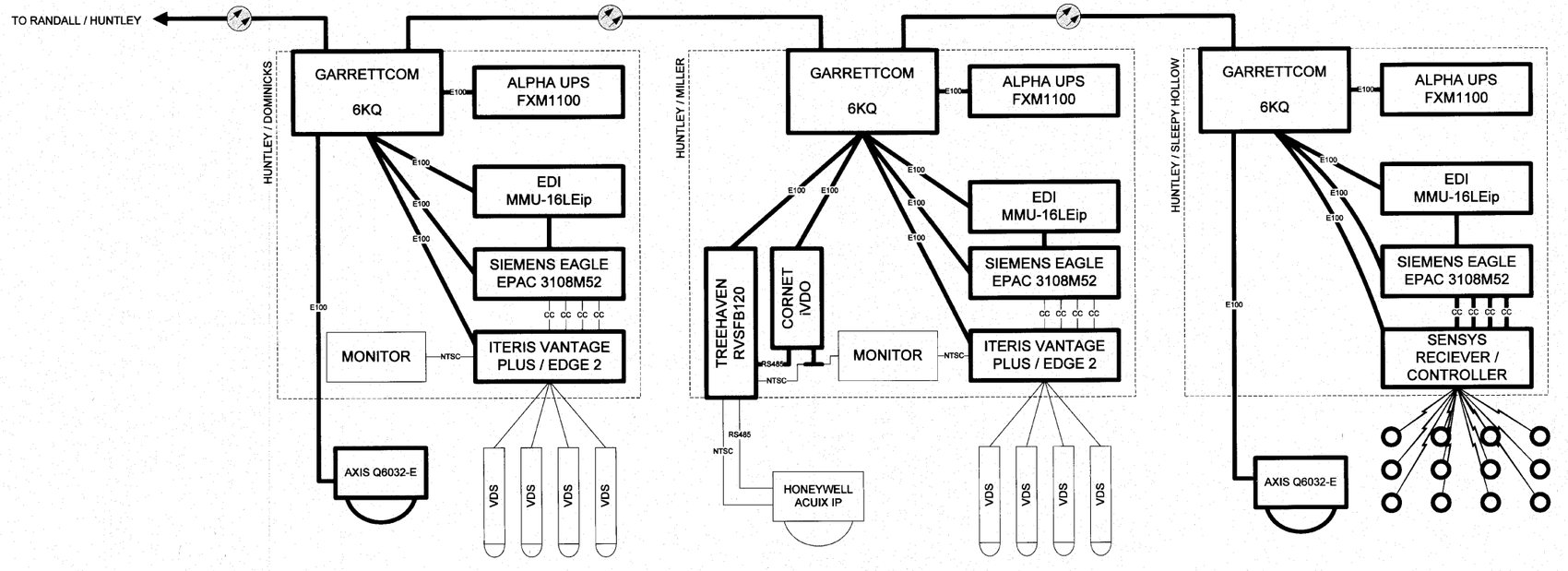
CABINET DETAIL 1
RANDALL FROM COUNTY LINE TO BINNIE

ROUTE	COUNTY	SECTION NUMBER	SHEET	SHEETS
	KANE	08-00379-00-TL	34	36

CONTRACT NO 63520

FED. AID PROJECT CMM-9003(147)





EXISTING MULTIMODE CONNECTION
NEW MULTIMODE CONNECTION
EXISTING SINGLEMODE CONNECTION
NEW SINGLEMODE CONNECTION
EXISTING EQUIPMENT
NEW EQUIPMENT

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TRANSPORTATION - INFORMATION TECHNOLOGY - WATER

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	CHECKED	DJG	
	DATE	2010/06/26	

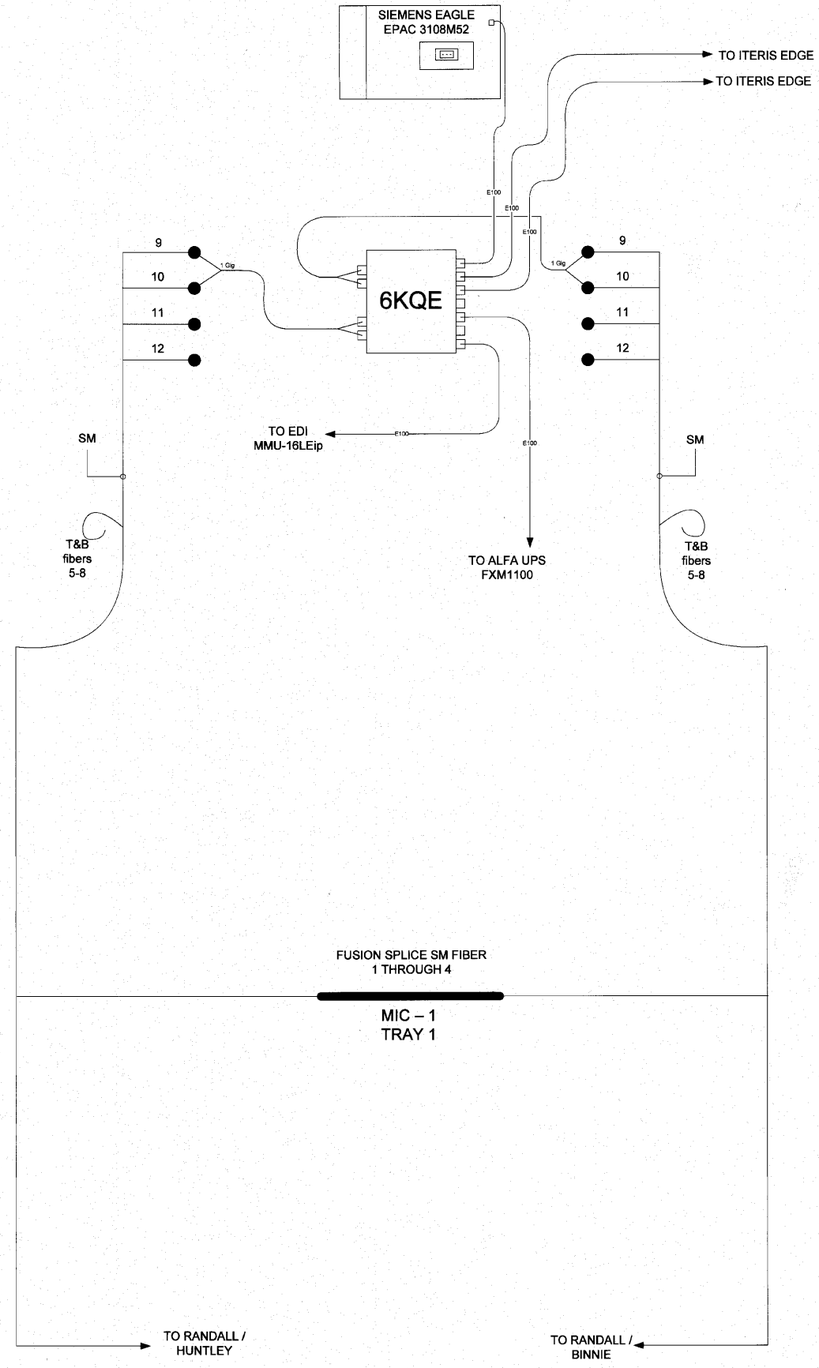
KANE COUNTY Department of Transportation

CABINET DETAIL 2
HUNTLEY FROM SQUARE BARN TO SLEEPY HALLOW

ROUTE	COUNTY	SECTION NUMBER	SHEET	SHEETS
	KANE	08-00379-00-TL	35	36

CONTRACT NO 63520
FED. AID PROJECT CMM-9003(147)

RANDALL / MILLER



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FILE NAME:	DESIGNED	DJG	
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	CHECKED	DJG	
	DATE	2010/10/10	

KANE COUNTY Department of Transportation

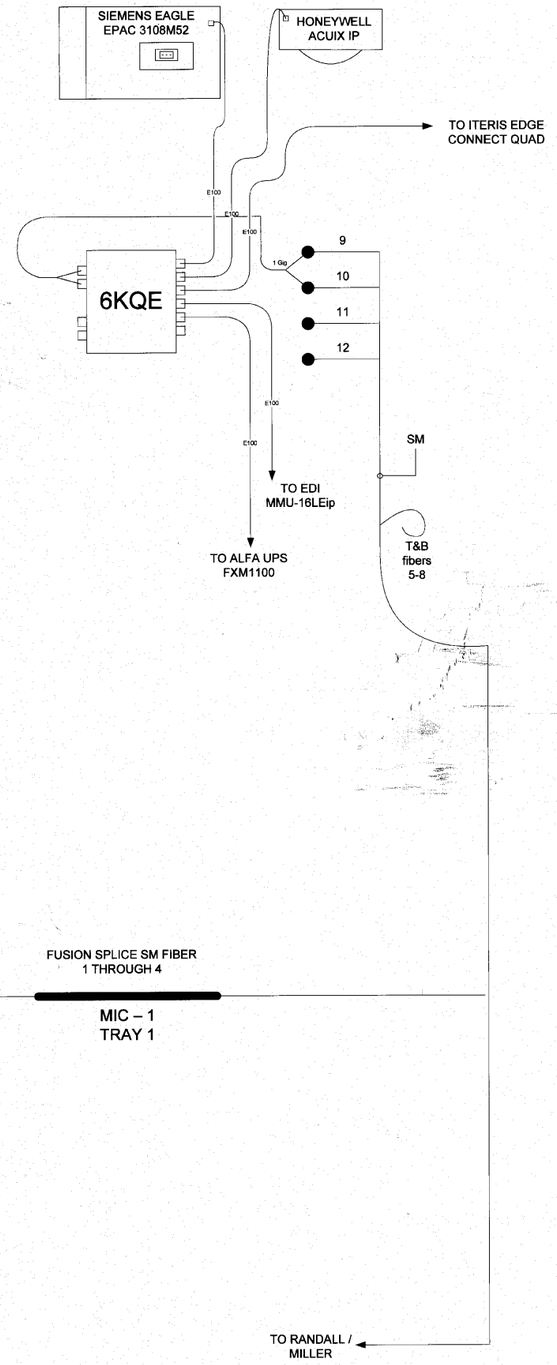
FIBER SPLICING DIAGRAM 1j
RANDALL / MILLER

ROUTE	COUNTY	SECTION NUMBER	SHEET	SHEETS
	KANE	08-00379-00-TL	36j	36

CONTRACT NO 63520

FED. AID PROJECT CMM-9003(147)

RANDALL / BINNIE



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	DRAWN	DJG	
	CHECKED	DJG	
	DATE	2010/10/10	

KANE COUNTY Department of Transportation

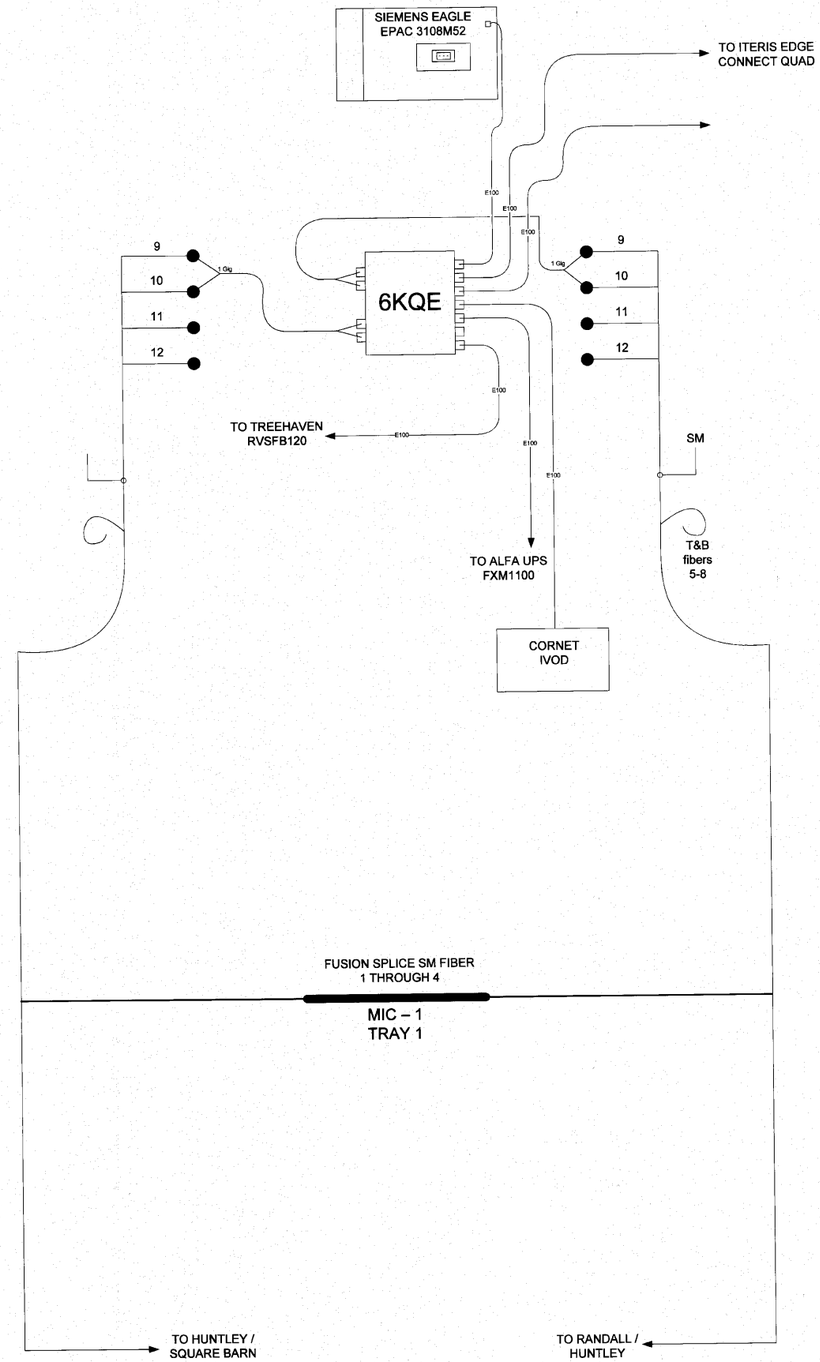
FIBER SPLICING DIAGRAM 1k
RANDALL / BINNIE

ROUTE	COUNTY	SECTION NUMBER	SHEET	SHEETS
	KANE	08-00379-00-TL	36k	36

CONTRACT NO 63520

FED. AID PROJECT CMM-9003(147)

HUNTLEY / BOYER



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	DRAWN	DJG	
	CHECKED	DJG	
	DATE	2010/10/10	

KANE COUNTY Department of Transportation

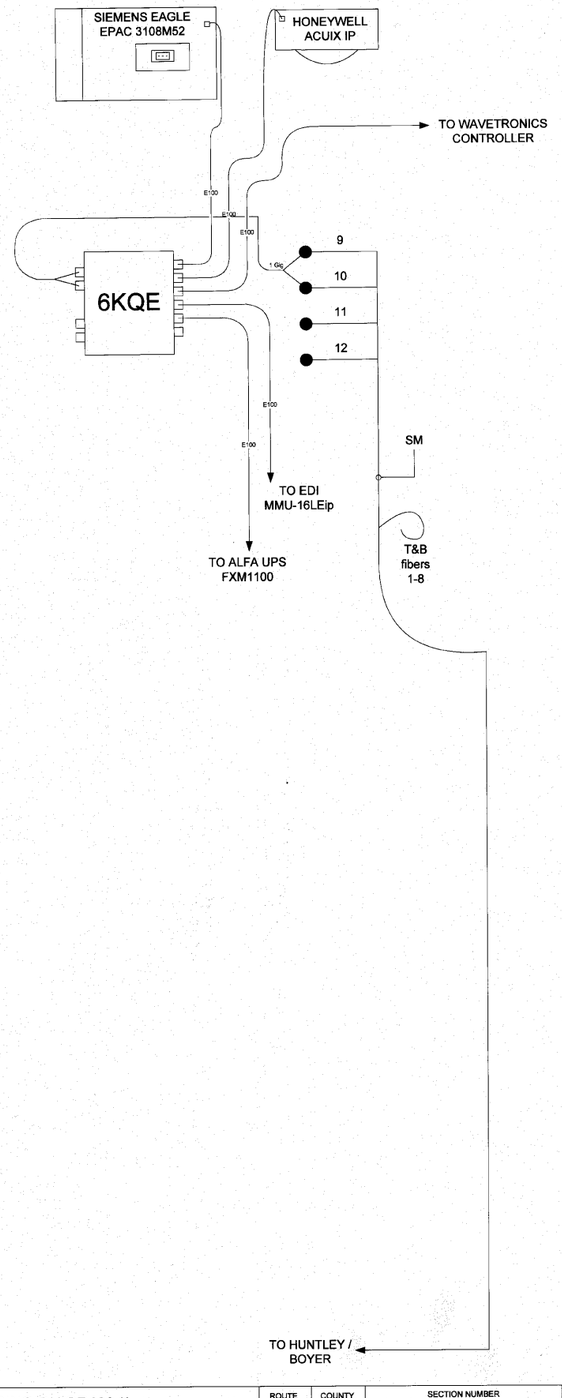
FIBER SPLICING DIAGRAM 1a
BOYER / HUNTLEY

CONTRACT NO 63520

ROUTE	COUNTY	SECTION NUMBER	SHEET	SHEETS
	KANE	08-00379-00-TL	36a	36

FED. AID PROJECT CMM-9003(147)

HUNTLEY / SQUARE BARN



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FILE NAME:	DESIGNED	DJG	
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	CHECKED	DJG	
	DATE	2010/10/10	

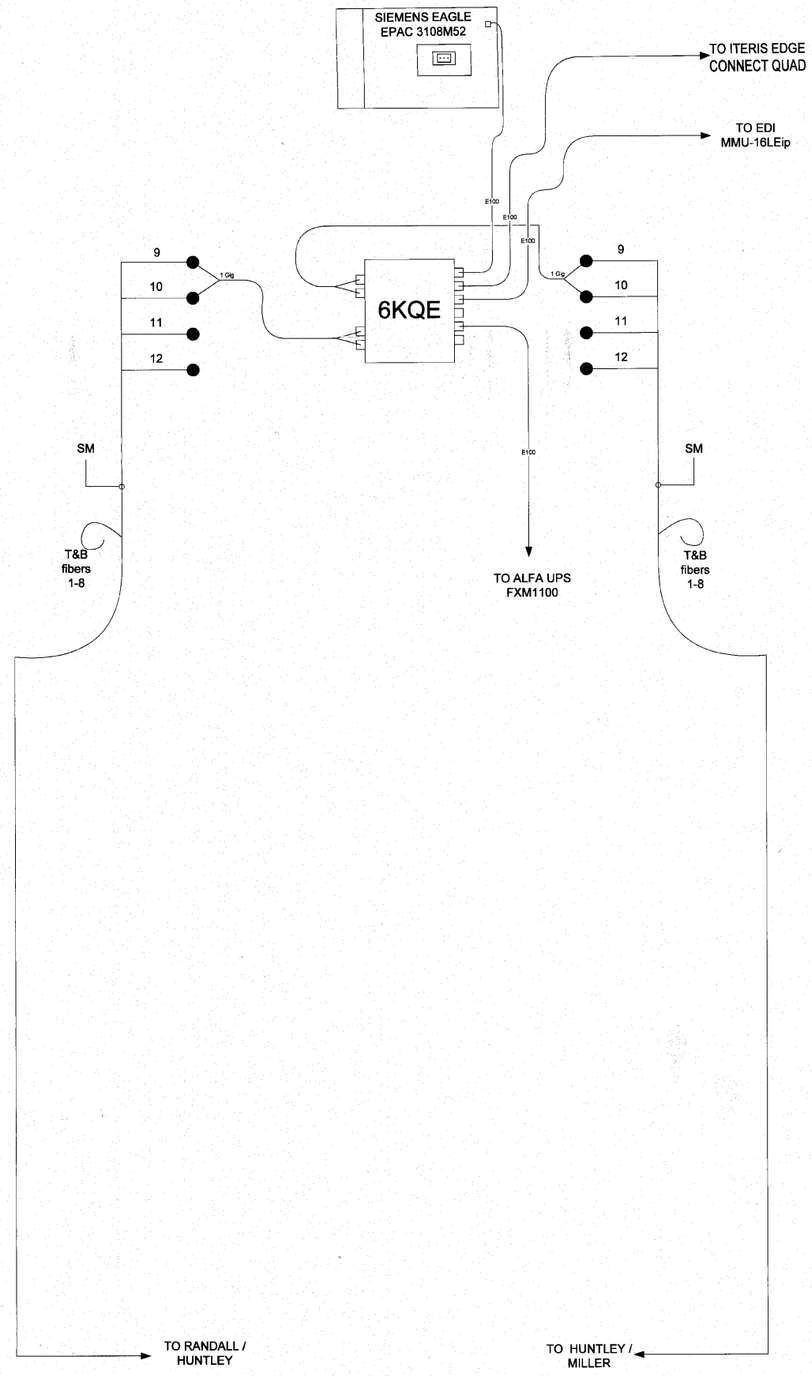
KANE COUNTY Department of Transportation

FIBER SPLICING DIAGRAM 1b
SQUARE BARN / HUNTLEY

CONTRACT NO 63520

ROUTE	COUNTY	SECTION NUMBER	SHEET	SHEETS
	KANE	08-00379-00-TL	36b	36
		FED. AID PROJECT CMM-9003(147)		

HUNTLEY / DOMINICKS



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	CHECKED	DJG	
	DATE	2010/10/10	

KANE COUNTY Department of Transportation

FIBER SPLICING DIAGRAM 1c
DOMINICKS / HUNTLEY

CONTRACT NO 63520

ROUTE	COUNTY	SECTION NUMBER	SHEET	SHEETS
	KANE	08-00379-00-TL	36c	36

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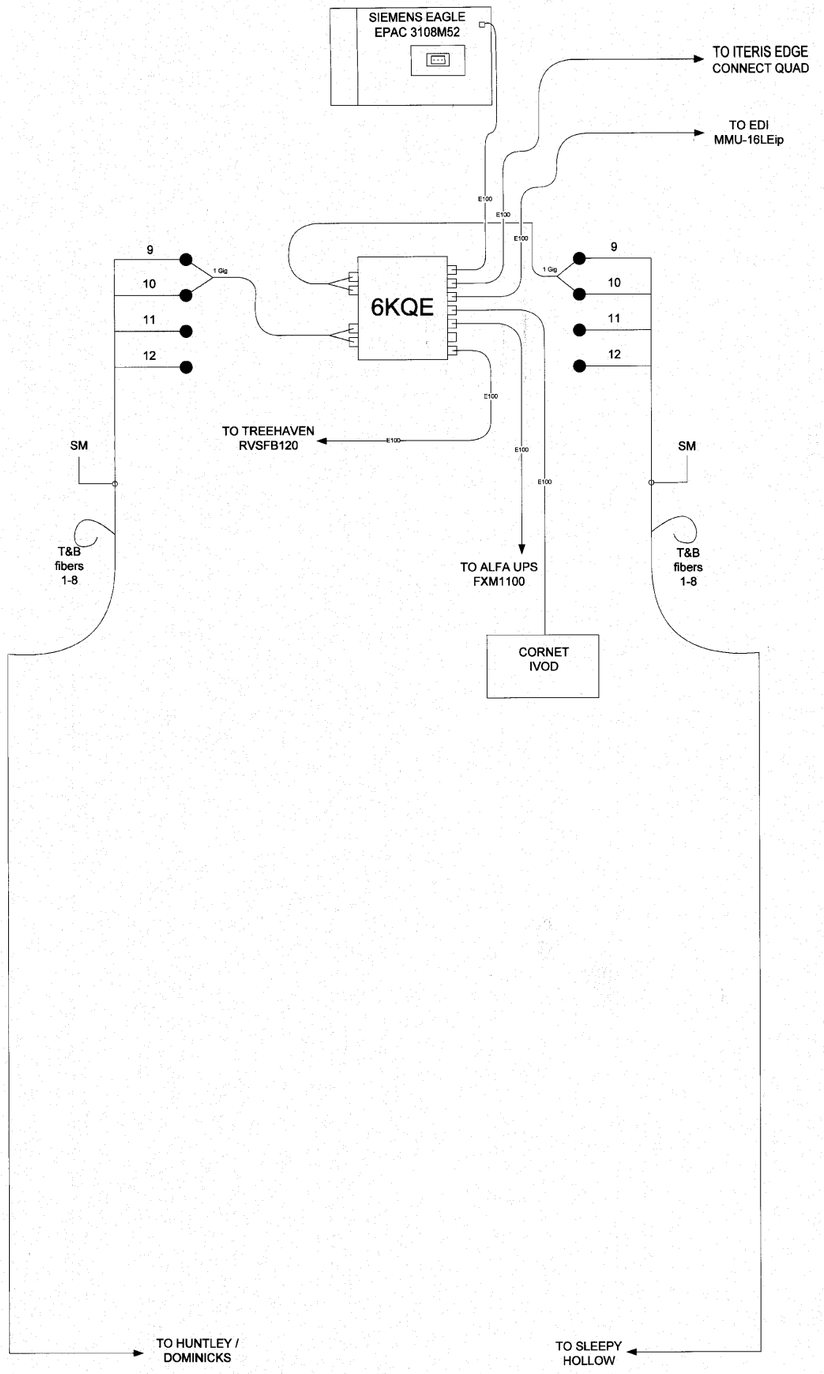
HUNTLEY / MILLER



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	CHECKED	DJG	
	DATE	2010/10/10	

KANE COUNTY Department of Transportation

FIBER SPLICING DIAGRAM 1d
MILLER / HUNTLEY

CONTRACT NO 63520

ROUTE	COUNTY	SECTION NUMBER	SHEET	SHEETS
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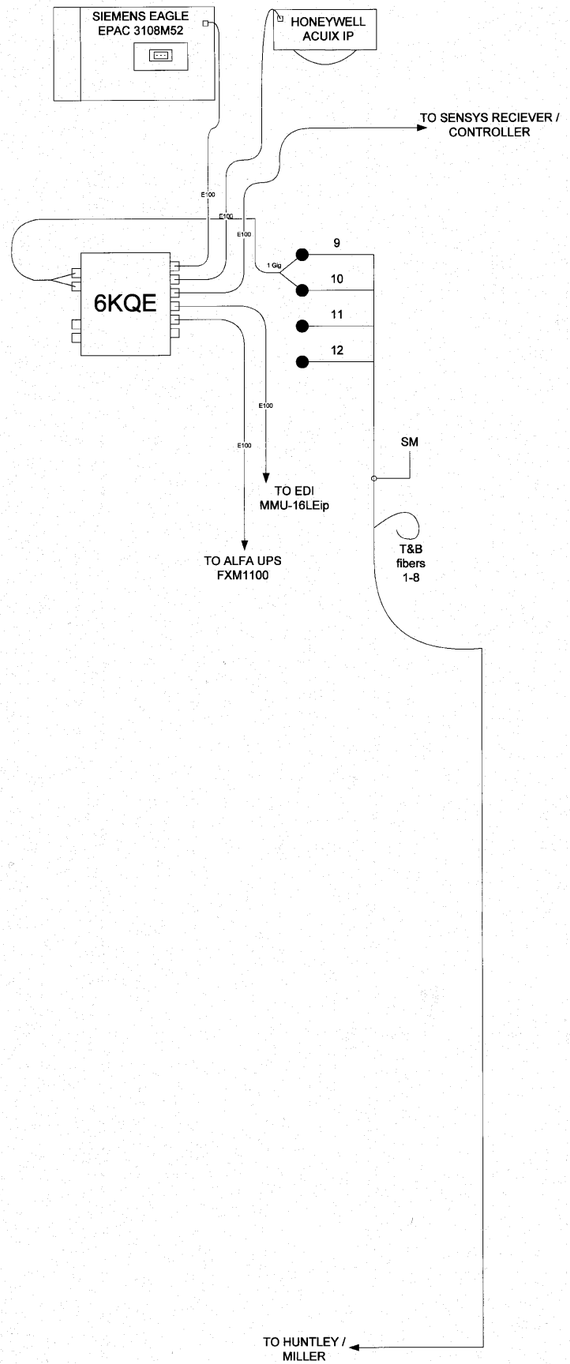
FED. AID PROJECT CMM-9003(147)

HUNTLEY / SLEEPY HOLLOW



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	CHECKED	DJG	
	DATE	2010/10/10	

KANE COUNTY Department of Transportation

FIBER SPLICING DIAGRAM 1e
SLEEPY HOLLOW / HUNTLEY

ROUTE	COUNTY	SECTION NUMBER	SHEET	SHEETS
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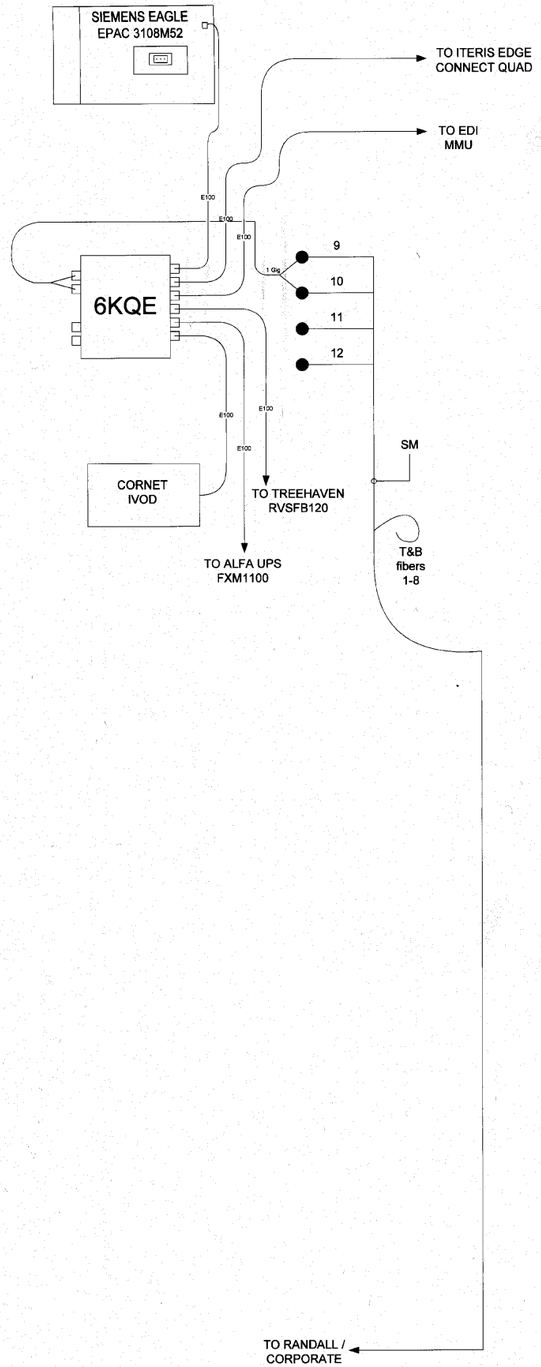
CONTRACT NO 63520

FED. AID PROJECT CMM-9003(147)

RANDALL / COUNTY LINE



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	CHECKED	DJG	
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KANE COUNTY Department of Transportation

FIBER SPLICING DIAGRAM 1f
RANDALL / COUNTY LINE

CONTRACT NO 63520

ROUTE	COUNTY	SECTION NUMBER	SHEET	SHEETS
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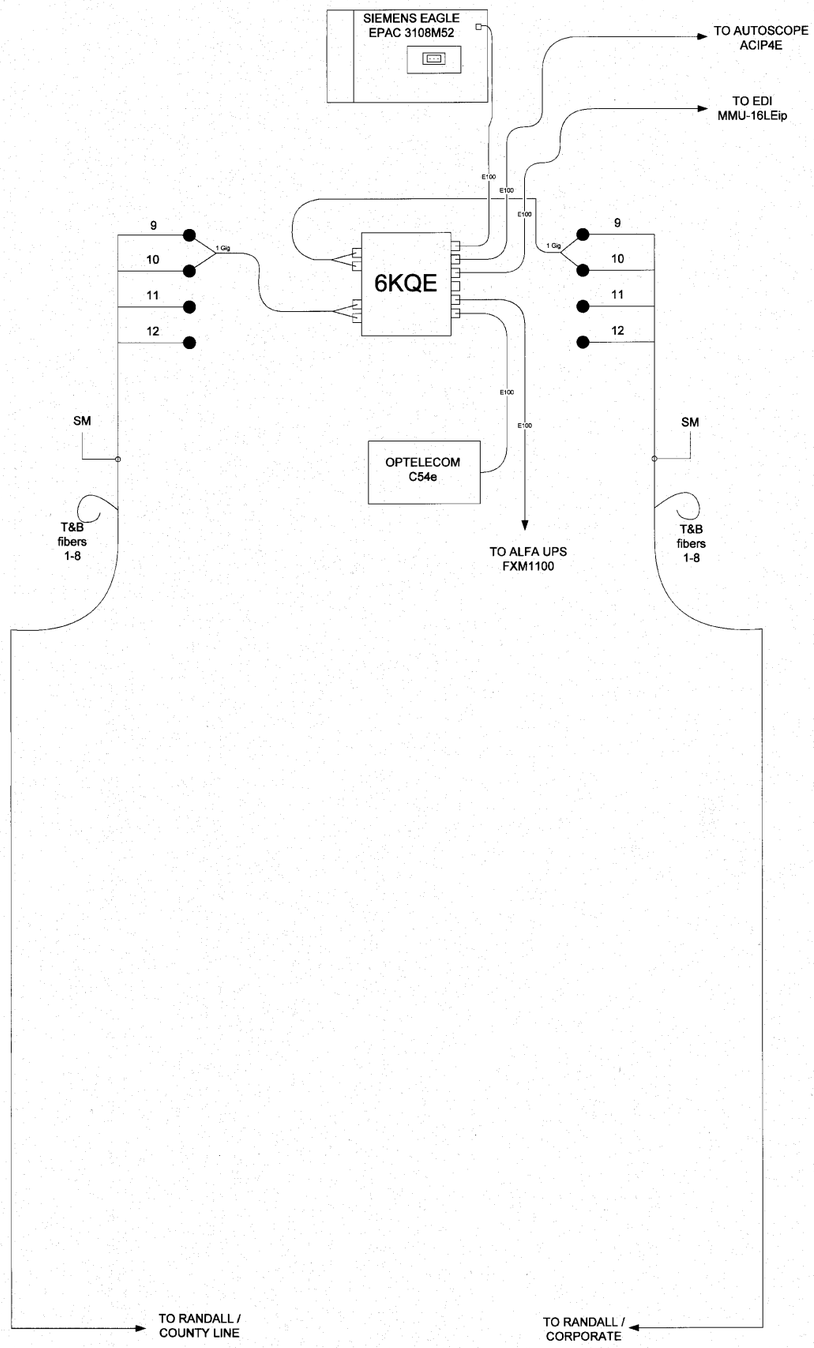
FED. AID PROJECT CMM-9003(147)

RANDALL / COMMONS



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TRANSPORTATION · INFORMATION TECHNOLOGY · WATER

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KANE COUNTY Department of Transportation

FIBER SPLICING DIAGRAM 1g
RANDALL / COMMONS

ROUTE	COUNTY	SECTION NUMBER	SHEET	SHEETS
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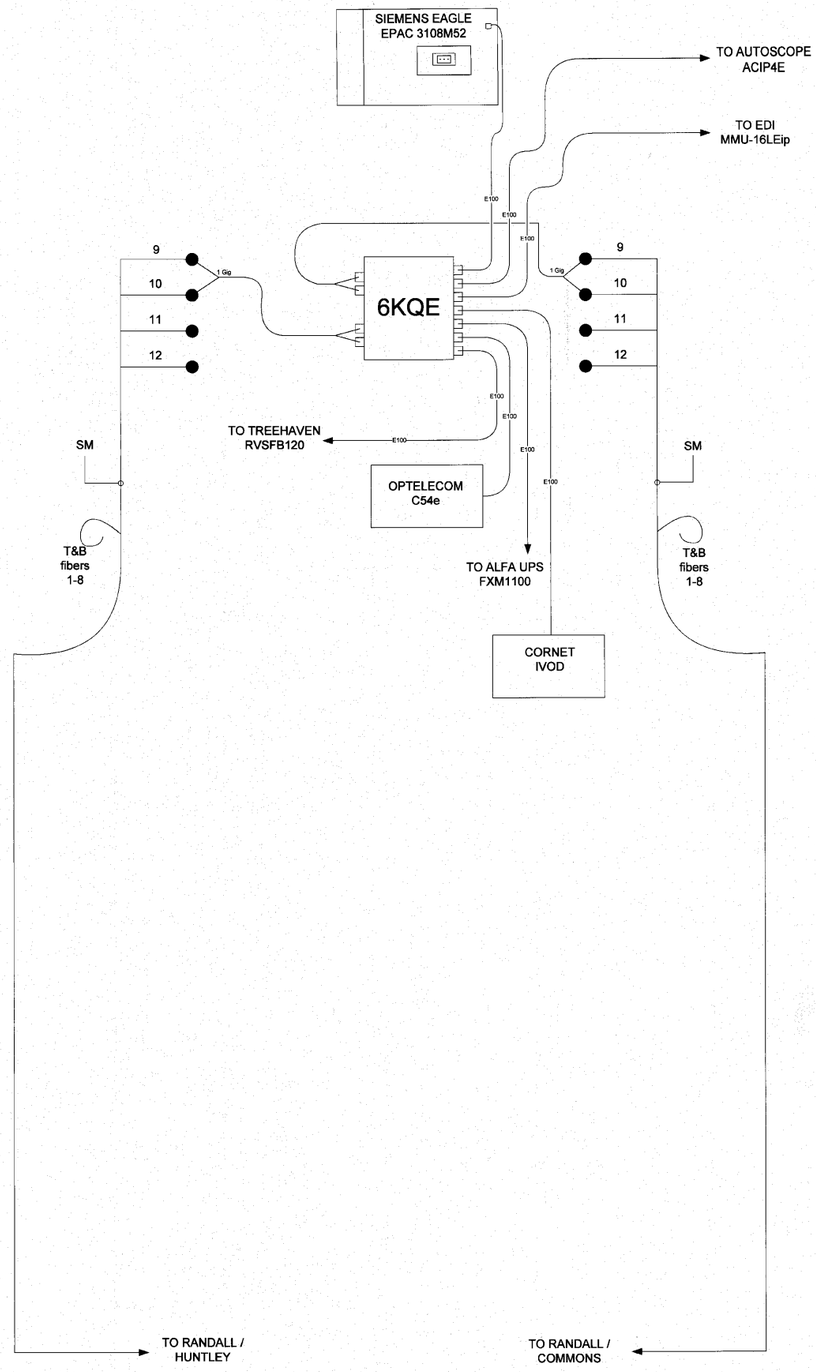
CONTRACT NO 63520

FED. AID PROJECT CMM-9003(147)

RANDALL / CORPORATE



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TRANSPORTATION · INFORMATION TECHNOLOGY · WATER

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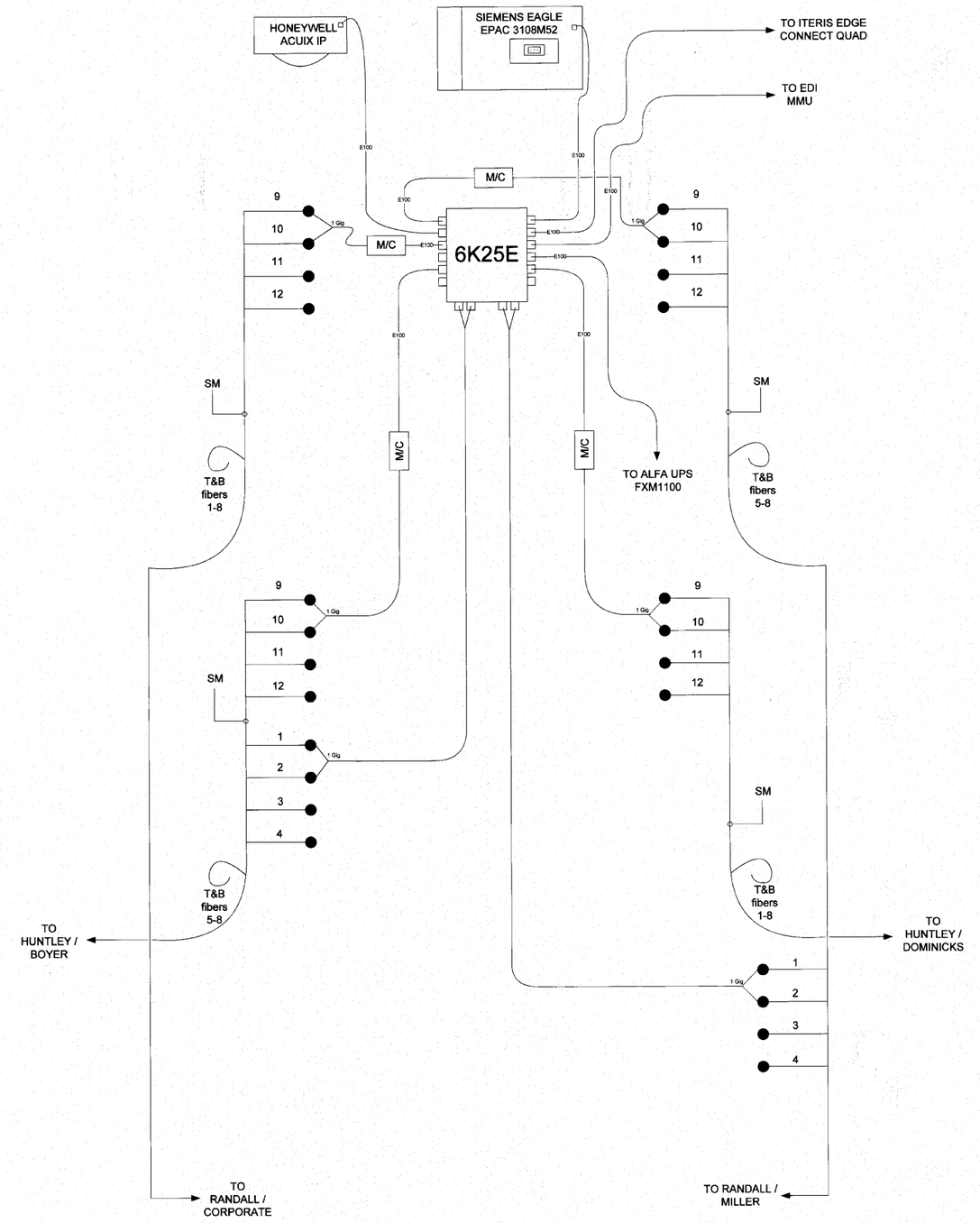
		CHECKED	DJG							
		DATE	2010/10/10		CONTRACT NO 63520			FED. AID PROJECT CMM-9003(147)		

RANDALL / HUNTLEY



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KANE COUNTY Department of Transportation

FIBER SPLICING DIAGRAM 1i
RANDALL / HUNTLEY

CONTRACT NO 63520

ROUTE	COUNTY	SECTION NUMBER	SHEET	SHEETS
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FED. AID PROJECT CMM-9003(147)