

DESIGN DESIGNATION 08-01-14 LETTING ITEM 040

STEARNS ROAD - MAJOR COLLECTOR
 IL ROUTE 25 - MINOR ARTERIAL
 TRAFFIC VOLUME
 2020 ADT 29,000 ON STEARNS ROAD
 2020 ADT 16,000 ON IL RTE 25

POSTED SPEED LIMIT
 45 MPH ON STEARNS ROAD (RANDALL TO IL25)
 40 MPH ON IL 25/STEARNS ROAD
 (STEARNS TO DUNHAM)

FOR INDEX OF SHEETS, SEE SHEET NO. 2

HIGHWAY STANDARDS
 FOR HIGHWAY STANDARDS, SEE SHEET NO. 2

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

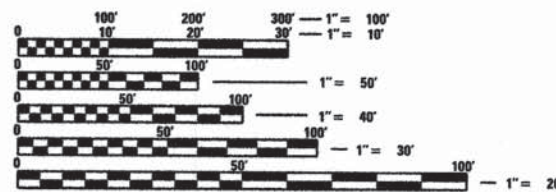
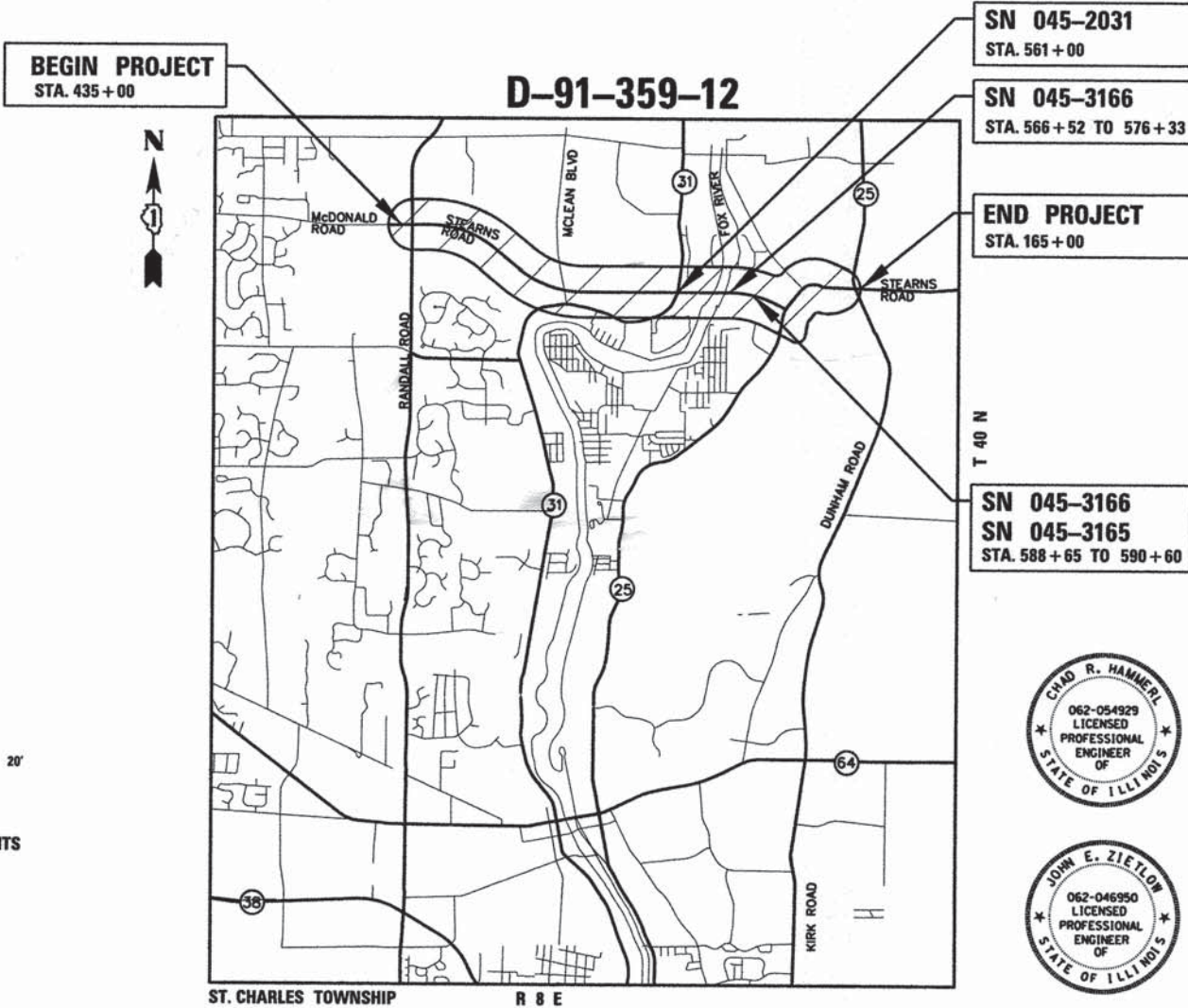
F.A.P. 361 (STEARNS ROAD) (IL RTE 25)
 CH 34 (RANDALL ROAD) TO CH 17 (DUNHAM ROAD)
 TRAFFIC SIGNAL INTERCONNECT
 SECTION 11-00214-00-TL
 PROJECT NO.: CMM-4003(002)
 KANE COUNTY

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
361	11-00214-00-TL	KANE	47	1

CONTRACT 61A36



THE PROJECT IS LOCATED IN THE VILLAGE OF SOUTH ELGIN



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.

CALL J.U.L.I.E.
 JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
 1-800-893-0123
 OR 811

FEDERAL AID PROGRAM ENGINEER: FAWAD AQUEEL, P.E. (847)705-4021 SCHAUMBURG, IL

CONTRACT NO. 61A36

ST. CHARLES TOWNSHIP R 8 E
LOCATION MAP
 NOT TO SCALE
 GROSS & NET LENGTH = 21,600 FEET (4 MILES)

SN 045-2031
 STA. 561+00

SN 045-3166
 STA. 566+52 TO 576+33

END PROJECT
 STA. 165+00

SN 045-3166
 SN 045-3165
 STA. 588+65 TO 590+60



SIGNED: *Chad R. Hamner*
 DATE: _____
 EXPIRES: Nov 30, 2015
 FOR DRAWINGS: 1 TO 33



SIGNED: *John E. Zietlow*
 DATE: APRIL 22, 2014
 EXPIRES: Nov 30, 2015
 FOR DRAWINGS: 34 TO 45

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

APPROVED: MAY 5 2014
[Signature]
 KDOT-DIRECTOR OF TRANSPORTATION, COUNTY ENGINEER

PASSED: MAY 22 2014
[Signature]
 RELEASING FOR BID BASED ON LIMITED REVIEW: MAY 22 2014
[Signature]
 DISTRICT 1 ENGINEER OF LOCAL ROADS & STREETS
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ONE ENGINEER

**PRINTED BY THE AUTHORITY
 OF THE STATE OF ILLINOIS**

JACOBS
 525 WEST MONROE, SUITE 200
 CHICAGO, IL 60661

GENERAL NOTES

1. CONSTRUCTION SHOWN IN THESE PLANS WILL BE CONSTRUCTED IN TWO STAGES TO COORDINATE THE STEARNS ROAD RECONSTRUCTION CONTRACT (NO. 63598) WITH THE TRAFFIC SYSTEMS IMPROVEMENT PROJECT (61A36). CONTRACTOR SHALL BEGIN STAGE 1 WORK UPON NOTICE TO PROCEED. STAGE TWO WORK WILL COMMENCE FOLLOWING THE COMPLETION OF CONTRACT 63598. BETWEEN STAGE 1 AND STAGE 2 WORK ON THIS TRAFFIC SYSTEM IMPROVEMENTS PROJECT WILL BE IDLE. CONTRACT 63598 IS ANTICIPATED TO BE COMPLETE IN NOVEMBER 2015. THE DIVISION BETWEEN STAGE 1 AND STAGE 2 OCCURS JUST EAST OF STEARNS ROAD AND IL RTE. 25.
2. 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, AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR TRAFFIC CONTROL ITEMS.
3. 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 OF CONSTRUCTION. THE CONTRACTOR SHALL ALSO VERIFY THE DEPTHS OF THE EXISTING UTILITIES IF NECESSARY USING TEST HOLES. ALL RELOCATION OR LOWERING OF THE UTILITIES SHALL BE COORDINATED BY THE CONTRACTOR. TEST HOLES WILL BE INCLUDED IN THE COST OF MOBILIZATION.
4. THE CONTRACTOR SHALL CONTACT J.U.L.I.E. AT LEAST 48 HOURS PRIOR TO EXCAVATION TO DETERMINE WHICH UTILITIES ARE IN THE AREA.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND AND SURFACE UTILITIES INCLUDING THOSE THAT MAY NOT BE SHOWN ON THE PLANS. ALL UTILITIES THAT ARE DAMAGED DURING THE CONSTRUCTION SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
6. 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 STRUCTURE, 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 STRUCTURE 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.
7. CONTRACTOR IS RESPONSIBLE FOR RESTORATION OF WORK AREAS. SALT TOLERANT SEED SHALL BE USED IN OPEN AREAS. SALT TOLERANT SOD SHALL BE USED IN MOWED AREAS. SEEDING SHALL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION. LOCATION TO BE SEEDED WILL BE DETERMINED BY THE ENGINEER.
8. 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. TREES THAT ARE DAMAGED OR REMOVED MUST BE REPLACED IN KIND AND THE CONTRACTOR IS ALSO RESPONSIBLE FOR PRUNING THE TREES IF NECESSARY.
9. 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 7 DAYS BEFORE THE CLOSURE. TRAFFIC AND PEDESTRIAN CONTROL SHALL BE IN ACCORDANCE WITH IDOT STANDARDS.
10. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL SAFETY REGULATIONS AS WELL AS THOSE SPECIFIED IN THE CONTRACT PLANS AND SPECIFICATIONS.
11. THE CONTRACTOR SHALL COMPLETE CLEAN UP AND RESTORATION OF THE ENTIRE PROJECT AREA WITHIN 7 DAYS OF CONTRACT COMPLETION DATE.
12. 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.
13. UPON COMPLETION OF THE PROJECT AND ACCEPTANCE BY THE ENGINEER, THE CONTRACTOR WILL SUBMIT ONE FULL SIZED SET OF RECORD DRAWINGS MARKED IN RED TO THE ENGINEER. RECORD DRAWINGS ARE INCLUDED IN THE COST OF MOBILIZATION.
14. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AS DESIGNATED ON THE PLANS. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE CREDITED THROUGH THE CONTRACTOR'S BID OF THE CONTRACT UNIT PRICES.
15. 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 THE CONTRACTOR'S EXPENSE AS SOON AS DAMAGED TO ALLOW MAIL DELIVERY.
16. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO COORDINATE WITH THE CANADIAN NATIONAL AND UNION PACIFIC RAILROADS WHENEVER CONSTRUCTION ACTIVITY IS WITHIN 25 FEET OF THE RAILROAD ROW. RAILROAD FLAGMEN ARE NOT ANTICIPATED TO BE REQUIRED AS PART OF THIS PROJECT. THE CONTRACTOR SHALL RETAIN FLAGMEN EMPLOYED AND DESIGNATED BY THE CANADIAN NATIONAL AND UNION PACIFIC RAILROADS TO MONITOR ONCOMING TRAIN TRAFFIC AND ADVISE CONTRACTOR PERSONNEL WHEN ACTIVITY ON OR NEAR THE RAILROAD RIGHT-OF-WAY MAY PROCEED. THIS ITEM WILL BE PAID FOR ACCORDING TO ARTICLE 107.12 AND WILL BE REIMBURSED ACCORDING TO ARTICLE 109.05. CONTACT INFORMATION:
 - A. CANADIAN NATIONAL RAILROAD
MIKE DIGVONNI, 815-233-1811
 - B. UNION PACIFIC RAILROAD
CLAIR ANDERSON, 312-496-4726
17. THE SPECIAL PROVISIONS REFERENCE KDOT CENTRAL FACILITY:

KANE COUNTY DIVISION OF TRANSPORTATION
41W011 BURLINGTON ROAD
ST. CHARLES, IL 60175

MR. THOMAS SZABO IS THE TRAFFIC MANAGER FOR KDOT (630) 208-3139
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION LAYOUT. WORK SHALL BE CONSIDERED INCLUDED IN THE COST OF MOBILIZATION.

19. ALL TRAVEL LANES ARE ANTICIPATED TO BE OPEN THROUGHOUT CONSTRUCTION. SHORT TERM LANE CLOSURES AND ALL USE OF FLAGGING OPERATION MUST OCCUR BETWEEN THE HOURS OF 9:00 A.M. AND 3:00 P.M. AND BE APPROVED BY THE ENGINEER. FOR ALL LANE CLOSURES, ARROW BOARD AND ADVANCE NOTICE AS DETERMINED BY THE ENGINEER SHALL BE REQUIRED.
20. EXISTING CONDITIONS, INCLUDING THE CONDITION AND AVAILABILITY OF CONDUIT, HAVE NOT BEEN FIELD VERIFIED. CONTRACTOR MUST VERIFY EXISTING CONDITIONS BEFORE COMMENCING WORK.
21. THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE THE INSTALLATION OF ANY COMPONENT OF THE TRAFFIC SIGNAL SYSTEM.
22. EXISTING CONDITIONS SHOWN IN THESE PLANS INCLUDE ELEMENTS THAT WILL BE INSTALLED AS PART OF A ROADWAY RECONSTRUCTION AND ADD LANES PROJECT BETWEEN STEARNS ROAD AND IL 25 AND DUNHAM ROAD.
23. CONCRETE TRUCK CLEAN OUT MUST BE APPROVED BY ENGINEER.
24. THE CONTRACTOR SHALL CONTACT THE IDOT TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINING OF WORK.

INDEX OF SHEETS

1	COVER SHEET
2	INDEX OF SHEETS/GENERAL NOTES
3 - 4	SUMMARY OF QUANTITIES
5 - 22	ITS PLANS
23 - 28	STANDARD TRAFFIC SIGNAL DESIGN DETAILS
29	RADAR SPEED SIGN AND CCTV POLE DETAIL
30	CCTV EXTENSION POLE AND FOUNDATION DETAIL
31 - 32	ROAD WEATHER INFORMATION SYSTEM DETAIL
33	LIGHTING FOUNDATION CONDUIT CORING DETAIL
34	FIBER OPTIC NETWORK
35 - 37	CABINET DETAILS AND FIBER OPTIC SPLICING DIAGRAM
38	PRE-TERMINATED FIBER ASSIGNMENTS
39 - 40	FIBER ASSIGNMENTS
41	RADAR SPEED SIGN DETAIL
42	ITS SYSTEMS DETAIL
43	CAMERA REPLACEMENT DETAIL
44	RWIS/DMS BLOCK DIAGRAM
45	CONDUIT DETAIL
46	TRAFFIC CONTROL DESIGN DETAIL TC-10
47	TRAFFIC CONTROL DESIGN DETAIL TC-22

STD. No.	DESCRIPTION
000001-06	STANDARD SYMBOLS ABBREVIATION AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
602401-03	MANHOLE TYPE A
604001-03	FRAME AND LIDS TYPE 1
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701101-04	OFF-RD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS -DAY ONLY
701426-06	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS > 45 MPH
701427-02	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS < 40 MPH
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701701-09	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-05	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-03	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
814001-02	HANDHOLES
814006-02	DOUBLE HANDHOLES
838001	BREAKAWAY DEVICES
878001-09	CONCRETE FOUNDATION DETAILS
886001-01	DETECTOR LOOP INSTALLATIONS

5/28/2014
PL: 2015/CX/13/2014/708 CAD/02/General/Notes.dgn



USER NAME =	DESIGNED - CH	REVISED -
PLOT SCALE =	DRAWN - KB, DL	REVISED -
PLOT DATE = 5/28/2014	CHECKED - KG	REVISED -
	DATE - #DATE	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

INDEX OF SHEETS		GENERAL NOTES	
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
361	11-00214-00-TL	KANE	47	2
CONTRACT NO. 61A36				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

5/28/2014
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SUMMARY OF QUANTITIES

△ DENOTES ITEMS REQUIRING SPECIAL PROVISIONS
 * INDICATES SPECIALTY ITEM

CODE OR ITEM NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE 0021													
				MCDONALD RD @ BRIARGATE DR	STEARNS RD @ RANDALL RD	STEARNS RD @ UMBDENSTOCK RD	STEARNS RD @ MCLEAN BLVD	MCLEAN BLVD @ IL RTE 31	STEARNS RD @ IL RTE 31 (OVERPASS)	STEARNS RD @ FOX RIVER	STEARNS RD @ BREWSTER CREEK	STEARNS RD @ IL RTE 25	STEARNS RD @ GILBERT ST	STEARNS RD @ DUNHAM ROAD	INTERCONNECT		
28000400	PERIMETER EROSION BARRIER	FOOT	180							180							
28000500	INLET AND PIPE PROTECTION	EACH	63														63
* 42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SO FT	118			18			18	64	18						
67100100	MOBILIZATION	L SUM	1														1
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1														1
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1														1
* 70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1														1
* 72000100	SIGN PANEL - TYPE 1	SO FT	30.0			7.5			15		7.5						
* 72400710	RELCOCA TE SIGN PANEL - TYPE 1	SO FT	15.0			7.5					7.5						
* 73700100	REMOVE GROUND MOUNTED SIGN SUPPORT	EACH	2			1					1						
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	72						72								
78300100	PAVEMENT MARKING REMOVAL	SO FT	144						144								
80500010	SERVICE INSTALLATION - GROUND MOUNTED	EACH	5			1			1	2	1						
80500020	SERVICE INSTALLATION - POLE MOUNTED	EACH	2			1			1								
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	4,374			926	188		1195	587	1478						
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA	FOOT	15,873														15873
△ 81100510	CONDUIT ATTACHED TO STRUCTURE, 1 1/2" DIA., PVC COATED GALVANIZED STEEL	FOOT	150							150							
81300540	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 12" X 4"	EACH	2							2							
81400100	HANDHOLE	EACH	23			3			2	1	2						15
81400300	DOUBLE HANDHOLE	EACH	10							1							9
81702100	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 12	FOOT	4,895			1920			1590	470	915						
81702120	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 8	FOOT	580							580							
81702150	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 2	FOOT	6,750						1200	5550							
81702160	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 1/0	FOOT	5,340			1320					4020						
83800650	BREAKAWAY DEVICE, COUPLING WITH STAINLESS STEEL SCREEN	EACH	5			1			2		1						
△ 85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	7	1	1		1	1				1	1	1			
86200200	UNINTERRUPTABLE POWER SUPPLY, STANDARD	EACH	5			1			1	2	1						
86300400	CONTROLLER CABINET TYPE IV	EACH	2							2							
87300010	GROUNDING EXISTING HANDHOLE FRAME AND COVER	EACH	13	1	3		2	3	3	1							
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1250						1250								
87501200	TRAFFIC SIGNAL POST, 16 FT.	EACH	8			2			2	2	2						
* 87800100	CONCRETE FOUNDATION, TYPE A	FOOT	44			14			10	10	10						
* 87800150	CONCRETE FOUNDATION, TYPE C	FOOT	8							8							
87900100	DRILL EXISTNG FOUNDATION	EACH	2							2							
87900200	DRILL EXISTING HANDHOLE	EACH	11		1		1	3	3	2		1					
△ 88500500	INDUCTION LOOP DETECTOR AMPLIFIER	EACH	3						3								
88600100	DETECTOR LOOP, TYPE 1	FOOT	219						219								
△ 89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	7	1	1		1	1				1	1	1			
△ 89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	5	1	1							1	1	1			

JACOBS 525 WEST MONROE CHICAGO IL, 60661 312-251-3000	USER NAME =	DESIGNED - CH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			F.A.P. RTE. 361	SECTION 11-00214-00-TL	COUNTY KANE	TOTAL SHEETS 47	SHEET NO. 3	
	PLOT SCALE =	CHECKED - KG	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.			CONTRACT NO. 61A36					
	PLOT DATE = 5/28/2014	DATE - *DATE	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT								

5/29/2014
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SUMMARY OF QUANTITIES

CODE OR ITEM NO.	ITEM	UNIT	TOTAL QUANTITY	MC DONALD RD @ BRIARGATE DR	STEARNS RD @ RANDALL RD	STEARNS RD @ LUMBENSTOCK RD	STEARNS RD @ MCLEAN BLVD	MCLEAN BLVD @ IL RTE 31	STEARNS RD @ IL RTE 31 (OVERPASS)	STEARNS RD @ FOX RIVER	STEARNS RD @ BREWSTER CREEK	STEARNS RD @ IL RTE 25	STEARNS RD @ GILBERT ST	STEARNS RD @ DUNHAM ROAD	INTERCONNECT
				CONSTRUCTION CODE 0021											
△ X0323833	DYNAMIC MESSAGE SIGN	EACH	2							2					
△ X0323906	CAMERA POLE, 45 FT	EACH	4			1			1	1	1				
△ X0323920	POLE MOUNTED EQUIPMENT CABINET, TYPE B	EACH	3			1			1		1				
△ X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	879					879							
△ X0325476	RADAR VEHICLE DETECTION SYSTEM	EACH	2			1					1				
△ X0326275	RAILROAD RIGHT-OF-WAY ENTRY PERMIT	EACH	1										1		
△ X0326362	PAINT EXISTING STREET LIGHT/TRAFFIC EQUIPMENT COMPLETE	EACH	12			3			3	3	3				
△ X0326452	VIDEO SYSTEM DETECTION PROCESSOR	EACH	3	1	1		1								
△ X0326852	RADAR SPEED SIGN	EACH	6			2			2		2				
△ X0327735	CAMERA POLE, 20 FT	EACH	3									1	1	1	
△ X0327739	MISCELLANEOUS ELECTRICAL WORK	L SUM	1								1				
△ X8360120	LIGHT POLE FOUNDATION, SPECIAL	EACH	4			1			1	1	1				
△ X8710031	FIBER OPTIC CABLE 36 FIBERS, SINGLE MODE	FOOT	23,642												23642
△ X8710039	FIBER OPTIC CABLE 144 FIBERS, SINGLE MODE	FOOT	22,351												22351
△ X8900010	TEMPORARY TRAFFIC SIGNAL INTERCONNECT	EACH	2												2
△ X8950212	MODIFY EXISTING CONTROLLER CABINET, SPECIAL	EACH	3									1	1	1	
△ XX004913	REMOVE FIBER OPTIC CABLE FROM CONDUIT	FOOT	879					879							
△ XX007251	INTERSECTION VIDEO TRAFFIC MONITORING SYSTEM WITH PTZ CAMERA	EACH	10	1	1	1	1		1	1	1	1	1	1	
△ XX007953	NETWORK CONFIGURATION	L SUM	1												1
△ XX008392	OUTDOOR RATED NETWORK CABLE	FOOT	7,179	75	500	1194	120		1060	2805	675	440	150	160	
△ XX008450	UPGRADE EXISTING UPS BATTERY BACK-UP SYSTEM	EACH	1				1								
△ XX008452	MALFUNCTION MANAGEMENT UNIT	EACH	3									1	1	1	
△ XX008453	ETHERNET MANAGED SWITCH, TYPE 1	EACH	8			1		1	1	2	1	1	1		
△ XX008454	ETHERNET MANAGED SWITCH, TYPE 2	EACH	2				1							1	
△ XX008594	FIBER OPTIC TERMINATIONS 6 FIBER	EACH	15												15
△ XX008595	FIBER OPTIC TERMINATIONS 48 FIBER	EACH	2												2
△ XX008696	PROCUREMENT AND INSTALLATION OF RWIS	L SUM	1							1					
△ Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	225												225
△ Z0033024	MAINTAIN EXISTING LIGHTING SYSTEM	L SUM	1												1
△ Z0033046	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	7	1	1		1	1				1	1	1	
△ Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1												1
**△ Z0076600	TRAINEES	HOUR	1000												1000
**△ Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	1000												1000
△ XX008963	THREE CELL FABRIC INNERDUCT	FOOT	16,907												16907
△ XX008964	ATMS SYSTEMS INTEGRATION - DATA PORTAL MODULE	L SUM	1												1
△ XX008965	ATMS SYSTEMS INTEGRATION - TRAFFIC MANAGEMENT SYSTEMS MODULE	L SUM	1												1
△ XX008966	ATMS SYSTEMS INTEGRATION - DEVICE INTEGRATION	L SUM	1												1
△ XX008967	ATMS SYSTEMS INTEGRATION - TRAVELER INFORMATION SYSTEM MODULE	L SUM	1												1

△ DENOTES ITEMS REQUIRING SPECIAL PROVISIONS
 * INDICATES SPECIALTY ITEM
 ** CONSTRUCTOIN TYPE CODE 0042



USER NAME =
 DESIGNED - CH
 DRAWN - KB, DL
 CHECKED - KG
 DATE - #DATE

REVISIED -
 REVISIED -
 REVISIED -
 REVISIED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE. 361	SECTION 11-00214-00-TL	COUNTY KANE	TOTAL SHEETS 47	SHEET NO. 4
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61A36	

5/28/2014
PL: 2014/CV/31988/788 CADD SHEET 1.dgn

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT LOCATED AT BRIARGATE DRIVE AND MCDONALD ROAD SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE VILLAGE OF SOUTH ELGIN, AND SHALL BE DELIVERED BY THE CONTRACTOR TO THE VILLAGE'S TRAFFIC SIGNAL MAINTENANCE CONTRACTOR'S MAIN FACILITY.

1 EACH PTZ CAMERA

THE VILLAGE'S TRAFFIC SIGNAL MAINTENANCE CONTRACTOR IS MEADE ELECTRIC CO., LOCATED AT:

30 W 751 NORTH AURORA ROAD
NAPERVILLE, IL 60563
TEL (708) 588-2500

ALL REMOVED ITEMS LISTED WILL BE PAID AS REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT.

NOTES:

- UNDERGROUND CONDUIT FOR FIBER OPTIC BACKBONE SHALL BE INSTALLED 2' BEHIND BACK OF CURB OR BACK OF SHOULDER UNLESS OTHERWISE INDICATED ON THE PLANS.
- ETHERNET EXTENDER TO BE PLACED IN AN EXISTING TRAFFIC SIGNAL HANDHOLE NEAR THE MIDPOINT OF THE CCTV AND CONTROLLER CABINET. ETHERNET EXTENDER TO BE PAID FOR UNDER OUTDOOR RATED NETWORK CABLE.

RESTORATION OF WORK AREA: RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY. SOD SHALL BE WATERED AS DIRECTED BY ENGINEER AND PER ACT 252.08 & 252.09 IN STP SPECS.

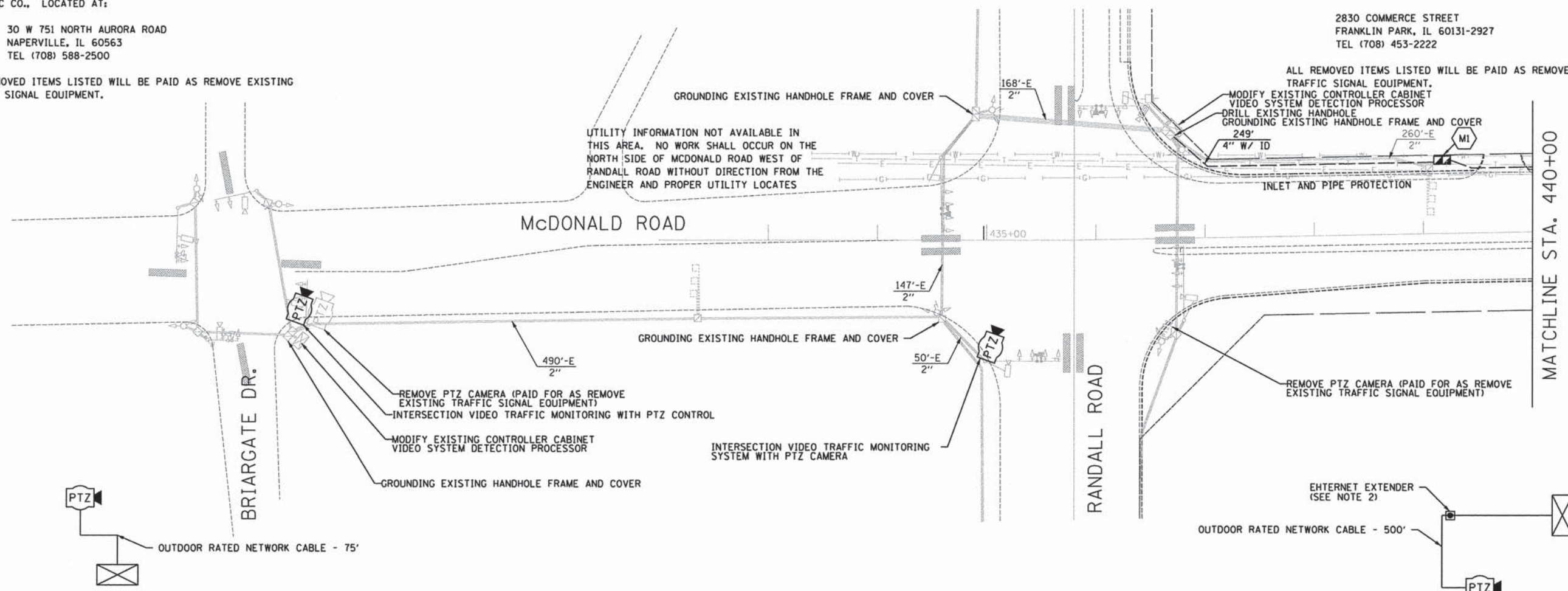
THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF KANE COUNTY, AND SHALL BE DELIVERED BY THE CONTRACTOR TO THE COUNTY'S TRAFFIC SIGNAL MAINTENANCE CONTRACTOR'S MAIN FACILITY.

1 EACH PTZ CAMERA

THE COUNTY'S TRAFFIC SIGNAL MAINTENANCE CONTRACTOR IS H&H ELECTRIC CO., LOCATED AT:

2830 COMMERCE STREET
FRANKLIN PARK, IL 60131-2927
TEL (708) 453-2222

ALL REMOVED ITEMS LISTED WILL BE PAID AS REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT.



CABLE SCHEMATIC (BRIARGATE)

CABLE SCHEMATIC (RANDALL)

SEE COMMUNICATIONS SCHEMATIC SHEET 34 FOR NETWORK COMMUNICATIONS

INTERCONNECT PLAN LEGEND

	PROPOSED	EXISTING
POLE MOUNTED CABINET, TYPE B		
CONTROLLER CABINET TYPE IV		
MAST ARM ASSEMBLY AND POLE, STEEL		
HANDHOLE		
DOUBLE HANDHOLE		
HEAVY DUTY HANDHOLE		
G.S. CONDUIT IN GROUND (CIG)		
DETECTOR LOOP SYSTEM		
THREE-CELL FABRIC INNERDUCT		
STAINLESS STEEL JUNCTION BOX		
MANHOLE/HANDHOLE NUMBER		
INTERSECTION VIDEO TRAFFIC MONITORING SYSTEM WITH PTZ CAMERA		
VIDEO DETECTION CAMERA		
RADAR SPEED SIGN		
ELECTRICAL SERVICE		
RADAR VEHICLE DETECTION SYSTEM		

SEE TRAFFIC SIGNAL LEGEND SHEET 28 FOR ADDITIONAL SYMBOLS

SCHEDULE OF QUANTITIES - MCDONALD ROAD AND BRIARGATE DRIVE

ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
GROUNDING EXISTING HANDHOLE FRAME AND COVER	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
VIDEO SYSTEM DETECTION PROCESSOR	EACH	1
INTERSECTION VIDEO TRAFFIC MONITORING SYSTEM WITH PTZ CAMERA	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	75
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM, LEVEL 2	EACH	1

SCHEDULE OF QUANTITIES - STEARNS ROAD AND RANDALL ROAD

ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
GROUNDING EXISTING HANDHOLE FRAME AND COVER	EACH	3
DRILL EXISTING HANDHOLE	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
VIDEO SYSTEM DETECTION PROCESSOR	EACH	1
INTERSECTION VIDEO TRAFFIC MONITORING SYSTEM WITH PTZ CAMERA	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	500
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM, LEVEL 2	EACH	1

SCHEDULE OF QUANTITIES - INTERCONNECT (1 OF 18)

ITEM	UNIT	QUANTITY
INLET AND PIPE PROTECTION	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA	FOOT	325
DOUBLE HANDHOLE	EACH	1
THREE CELL FABRIC INNERDUCT	FOOT	325

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CHICAGO IL, 60661
312-251-3000

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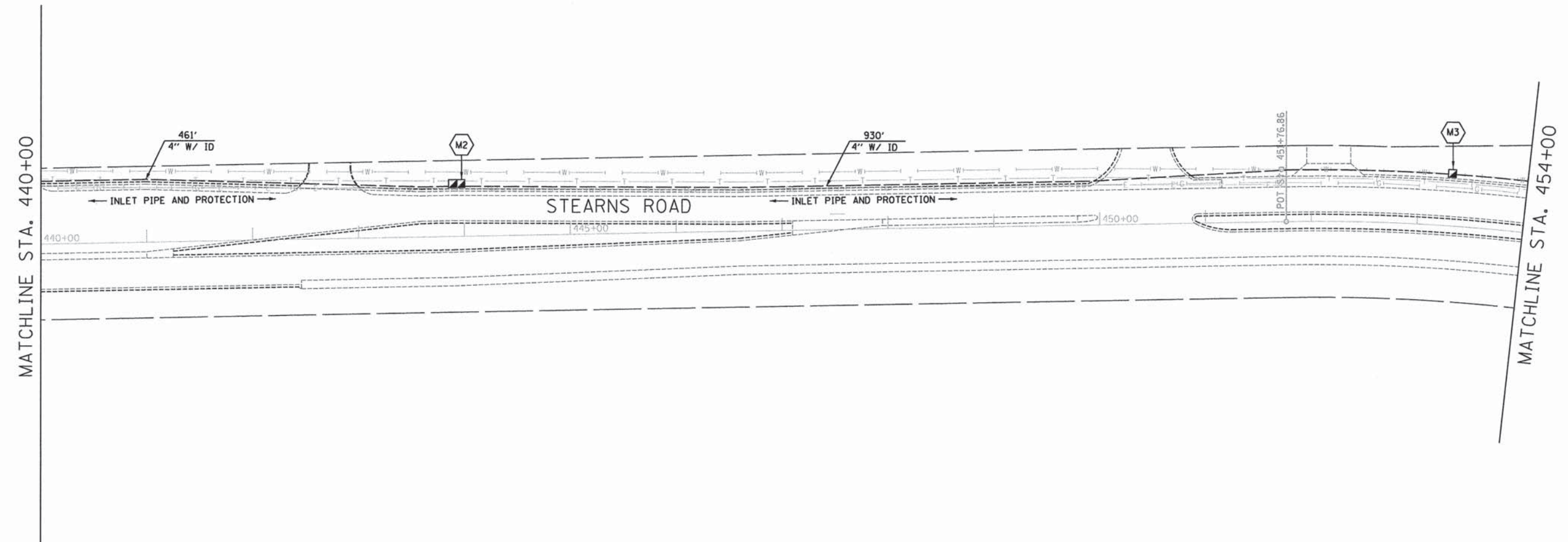
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ITS PLANS
STEARNS ROAD AND RANDALL ROAD (SHEET 1 OF 18)

SCALE: SHEET NO. ___ OF ___ SHEETS STA. _____ TO STA. _____

F.A.P. RTE. 361	SECTION 11-00214-00-TL	COUNTY KANE	TOTAL SHEETS 47	SHEET NO. 5
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 61A36	

5/28/2014
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NOTES:

1. UNDERGROUND CONDUIT FOR FIBER OPTIC BACKBONE SHALL BE INSTALLED 2' BEHIND BACK OF CURB OR BACK OF SHOULDER UNLESS OTHERWISE INDICATED ON THE PLANS.
2. CONDUIT SHALL BE INSTALLED AND GROUND RESTORED WITHIN THE SAME WORKING DAY. IF CONDUIT EXCAVATION WILL BE OPEN MORE THAN ONE WORKING DAY CONTRACTOR MUST INSTALL PERIMETER EROSION BARRIER AND ORANGE TEMPORARY FENCING TO PROTECT DITCH.

RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOO, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDD IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY. SOO SHALL BE WATERED AS DIRECTED BY ENGINEER AND PER ACT 252.08 & 252.09 IN STP SPECS.

SEE COMMUNICATIONS SCHEMATIC SHEET 34 FOR NETWORK COMMUNICATIONS

INTERCONNECT PLAN LEGEND		
	PROPOSED	EXISTING
POLE MOUNTED CABINET, TYPE B		
CONTROLLER CABINET TYPE IV		
MAST ARM ASSEMBLY AND POLE, STEEL		
HANDHOLE		
DOUBLE HANDHOLE		
HEAVY DUTY HANDHOLE		
G.S. CONDUIT IN GROUND (CIG)		
DETECTOR LOOP SYSTEM		
THREE-CELL FABRIC INNERDUCT		
STAINLESS STEEL JUNCTION BOX		
MANHOLE/HANDHOLE NUMBER		
INTERSECTION VIDEO TRAFFIC MONITORING SYSTEM WITH PTZ CAMERA		
VIDEO DETECTION CAMERA		
RADAR SPEED SIGN		
ELECTRICAL SERVICE		
RADAR VEHICLE DETECTION SYSTEM		

SEE TRAFFIC SIGNAL LEGEND SHEET 28 FOR ADDITIONAL SYMBOLS

SCHEDULE OF QUANTITIES - INTERCONNECT (2 OF 18)

ITEM	UNIT	QUANTITY
INLET PIPE AND PROTECTION	EACH	6
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA	FOOT	1384
HANDHOLE	EACH	1
DOUBLE HANDHOLE	EACH	1
THREE-CELL FABRIC INNERDUCT	FOOT	1384

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 CHICAGO IL, 60661
 312-251-3000

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	DRAWN - KB, DL	REVISED -
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ITS PLANS
 STEARNS ROAD AND RANDALL ROAD (SHEET 2 OF 18)**

F.A.P. RTE. 361	SECTION 11-00214-00-TL	COUNTY KANE	TOTAL SHEETS 47	SHEET NO. 6
SCALE: SHEET NO. ___ OF ___ SHEETS STA. _____ TO STA. _____			CONTRACT NO. 61A36	
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

5/28/2014

RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDING IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY. SOD SHALL BE WATERED AS DIRECTED BY ENGINEER AND PER ACT 252.08 & 252.09 IN STP SPECS.

SERVICE INSTALLATION - POLE MOUNTED (COMED ACT. 57150-95092)

SERVICE INSTALLATION - GROUND MOUNT CONCRETE FOUNDATION, TYPE A

UNINTERRUPTABLE POWER SUPPLY, STANDARD CAMERA POLE, 45 FT POLE MOUNTED EQUIPMENT CABINET, TYPE B RADAR VEHICLE DETECTION SYSTEM LIGHT POLE FOUNDATION, SPECIAL INTERSECTION VIDEO TRAFFIC MONITORING SYSTEM WITH PTZ CAMERA ETHERNET MANAGED SWITCH, TYPE 1

REMOVE GROUND MOUNTED SIGN SUPPORT RELOCATE SIGN PANEL - TYPE 1 TO STA. 467+00, 51' RT

SEE SHEET NO. 8 FOR CABLE SCHEMATIC

NOTES:

- UNDERGROUND CONDUIT FOR FIBER OPTIC BACKBONE SHALL BE INSTALLED 2' BEHIND BACK OF CURB OR BACK OF SHOULDER UNLESS OTHERWISE INDICATED ON THE PLANS.
- CONCRETE FOUNDATION, TYPE A SHALL BE 5' IN DEPTH FOR RADAR SPEED SIGN INSTALLATIONS.
- FIBER OPTIC CABLE 36 SM SHALL BE PLACED IN 4" CONDUIT ETHERNET CABLE(S) SHALL BE PLACED WITHIN THE INNERDUCT IN THE 4" CONDUIT. ELECTRICAL POWER CABLES SHALL BE PLACED IN AS SEPARATE CONDUIT PATH THAN COMMUNICATIONS CABLES.
- LOCATIONS OF RADAR SPEED SIGNS SHALL BE FIELD STAKED FOR REVIEW/APPROVAL BY KCDOT PRIOR TO INSTALLATION.
- ETHERNET EXTENDER TO BE PLACED IN AN EXISTING TRAFFIC SIGNAL HANDHOLE NEAR THE MIDPOINT OF THE CCTV AND CONTROLLER CABINET. ETHERNET EXTENDER TO BE PAID FOR UNDER OUTDOOR RATED NETWORK CABLE.
- CONDUIT SHALL BE INSTALLED AND GROUND RESTORED WITHIN THE SAME WORKING DAY. IF CONDUIT EXCAVATION WILL BE OPEN MORE THAN ONE WORKING DAY CONTRACTOR MUST INSTALL PERIMETER EROSION BARRIER AND ORANGE TEMPORARY FENCING TO PROTECT DITCH.
- SERVICE INSTALLATION SHALL CONSIST OF AN IDOT STANDARD POLE MOUNTED SERVICE INSTALLATION AND A GROUND MOUNTED SERVICE DISCONNECT. METER HOUSING SHALL BE INSTALLED ON THE COMED POLE.
- EARTH EXCAVATION RELATED TO THE INSTALLATION OF FOUNDATIONS AND PCC, SIDEWALK, 5 IN SHALL BE CONSIDERED INCIDENTAL TO THESE ITEMS.

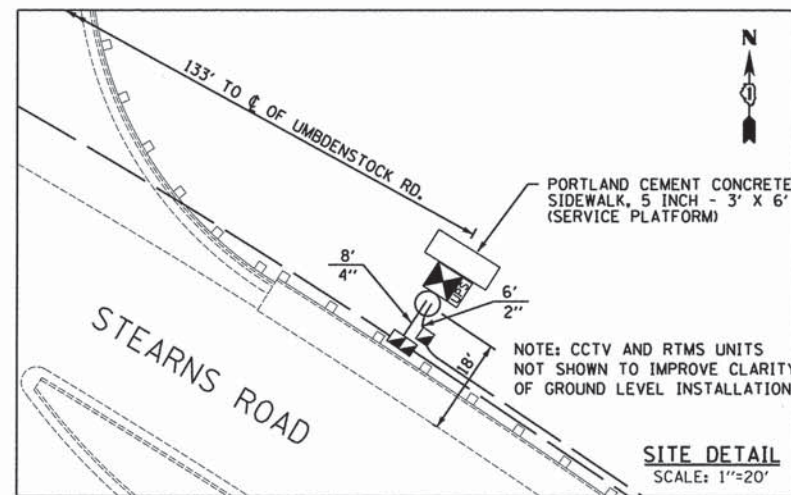
SCHEDULE OF QUANTITIES - STEARNS ROAD AND UMBDENSTOCK ROAD

ITEM	UNIT	QUANTITY
PORTLAND CEMENT CONCRETE, SIDEWALK 5 INCH	SO FT	18
SIGN PANEL - TYPE 1	SO FT	7.5
RELOCATE SIGN PANEL - TYPE 1	SO FT	7.5
REMOVE GROUND MOUNTED SIGN SUPPORT	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED	EACH	1
SERVICE INSTALLATION, POLE MOUNTED	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	926
HANDHOLE	EACH	3
ELECTRICAL CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 12	FOOT	1920
ELECTRICAL CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 1/0	FOOT	1320
BREAKAWAY DEVICE, COUPLING WITH STAINLESS STEEL	EACH	1
UNINTERRUPTABLE POWER SUPPLY	EACH	1
TRAFFIC SIGNAL POST, 16 FT	EACH	2
CONCRETE FOUNDATION, TYPE A	FOOT	14
CAMERA POLE, 45 FT	EACH	1
POLE MOUNTED EQUIPMENT CABINET, TYPE B	EACH	1
PAINT EXISTING STREET LIGHT/TRAFFIC EQUIPMENT COMPLETE	EACH	3
RADAR VEHICLE DETECTION SYSTEM	EACH	1
RADAR SPEED SIGN	EACH	2
LIGHT POLE FOUNDATION, SPECIAL	EACH	1
INTERSECTION VIDEO TRAFFIC MONITORING SYSTEM WITH PTZ CAMERA	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	1194
ETHERNET MANAGED SWITCH, TYPE 1	EACH	1

SCHEDULE OF QUANTITIES - INTERCONNECT (3 OF 18)

ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA	FOOT	1410
HANDHOLE	EACH	2
DOUBLE HANDHOLE	EACH	1
THREE-CELL FABRIC INNERDUCT	FOOT	1410

SEE COMMUNICATIONS SCHEMATIC SHEET 34 FOR NETWORK COMMUNICATIONS



INTERCONNECT PLAN LEGEND

	PROPOSED	EXISTING
POLE MOUNTED CABINET, TYPE B		
CONTROLLER CABINET TYPE IV		
MAST ARM ASSEMBLY AND POLE, STEEL		
HANDHOLE		
DOUBLE HANDHOLE		
HEAVY DUTY HANDHOLE		
G.S. CONDUIT IN GROUND (CIG)		
DETECTOR LOOP SYSTEM		
THREE-CELL FABRIC INNERDUCT		
STAINLESS STEEL JUNCTION BOX		
MANHOLE/HANDHOLE NUMBER		
INTERSECTION VIDEO TRAFFIC MONITORING SYSTEM WITH PTZ CAMERA		
VIDEO DETECTION CAMERA		
RADAR SPEED SIGN		
ELECTRICAL SERVICE		
RADAR VEHICLE DETECTION SYSTEM		

SEE TRAFFIC SIGNAL LEGEND SHEET 28 FOR ADDITIONAL SYMBOLS

RADAR SPEED SIGN TRAFFIC SIGNAL POST, 16 FT, CONCRETE FOUNDATION, TYPE A (SEE NOTE 2) BREAKAWAY DEVICE, COUPLING WITH STAINLESS STEEL SCREEN STA. 467+00, 51' RT (SEE DETAIL PAGE 29)

SIGN PANEL - TYPE 1 TRAFFIC SIGNAL POST, 16 FT. CONCRETE FOUNDATION, TYPE A (SEE NOTE 2) RADAR SPEED SIGN STA. 466+85, 50' LT (SEE DETAIL PAGE 29)

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CHICAGO IL, 60661
312-251-3000

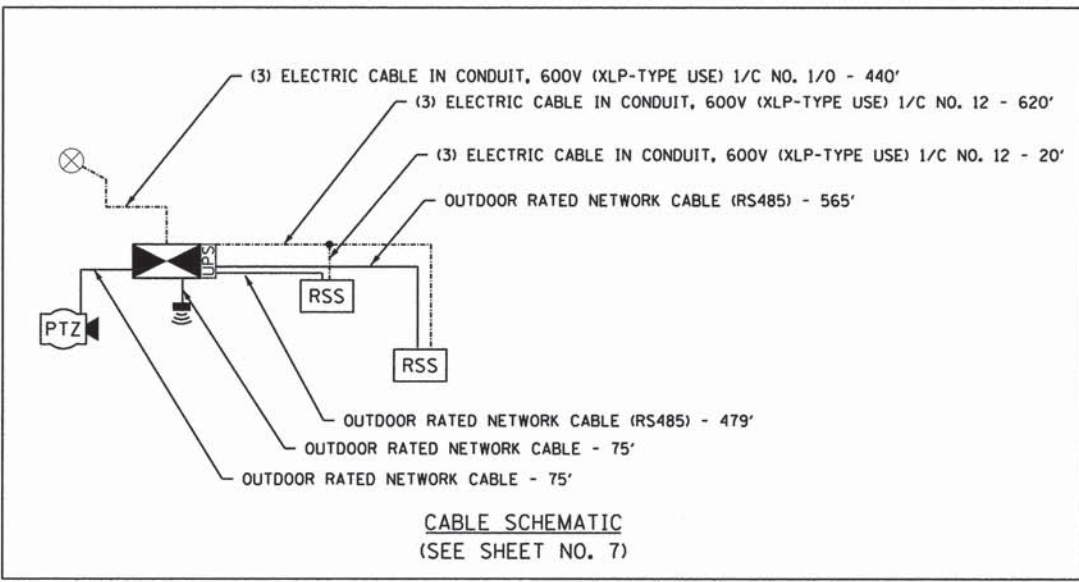
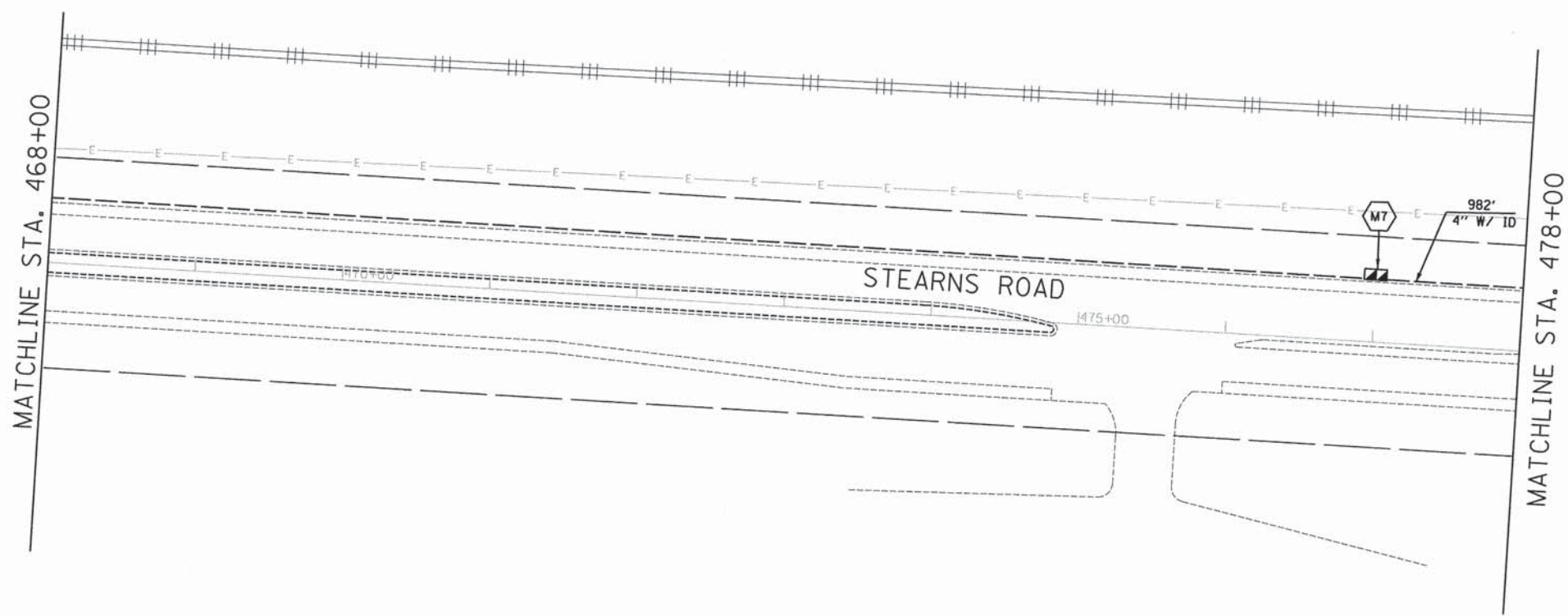
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ITS PLANS
STEARNS ROAD AND UMBDENSTOCK ROAD (SHEET 3 OF 18)

F.A.P. RTE. 361	SECTION 11-00214-00-TL	COUNTY KANE	TOTAL SHEETS 47	SHEET NO. 7
SCALE:			CONTRACT NO. 61A36	
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

5/20/2014
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CABLE SCHEMATIC
(SEE SHEET NO. 7)

NOTES:

- UNDERGROUND CONDUIT FOR FIBER OPTIC BACKBONE SHALL BE INSTALLED 2' BEHIND BACK OF CURB OR BACK OF SHOULDER UNLESS OTHERWISE INDICATED ON THE PLANS.
- CONDUIT SHALL BE INSTALLED AND GROUND RESTORED WITHIN THE SAME WORKING DAY. IF CONDUIT EXCAVATION WILL BE OPEN MORE THAN ONE WORKING DAY CONTRACTOR MUST INSTALL PERIMETER EROSION BARRIER AND ORANGE TEMPORARY FENCING TO PROTECT DITCH.

RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

SEE COMMUNICATIONS SCHEMATIC
SHEET 34 FOR NETWORK COMMUNICATIONS

SCHEDULE OF QUANTITIES - INTERCONNECT (4 OF 18)

ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA	FOOT	984
DOUBLE HANDHOLE	EACH	1
THREE-CELL FABRIC INNERDUCT	FOOT	984

INTERCONNECT PLAN LEGEND	
	PROPOSED
POLE MOUNTED CABINET, TYPE B	
CONTROLLER CABINET TYPE IV	
MAST ARM ASSEMBLY AND POLE, STEEL	
HANDHOLE	
DOUBLE HANDHOLE	
HEAVY DUTY HANDHOLE	
G.S. CONDUIT IN GROUND (CIG)	
DETECTOR LOOP	
SYSTEM	S
THREE-CELL FABRIC INNERDUCT	ID
STAINLESS STEEL JUNCTION BOX	
MANHOLE/HANDHOLE NUMBER	
INTERSECTION VIDEO TRAFFIC MONITORING SYSTEM WITH PTZ CAMERA	
VIDEO DETECTION CAMERA	
RADAR SPEED SIGN	
ELECTRICAL SERVICE	
RADAR VEHICLE DETECTION SYSTEM	

SEE TRAFFIC SIGNAL LEGEND SHEET 28 FOR ADDITIONAL SYMBOLS

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CHICAGO IL, 60661
312-251-3000

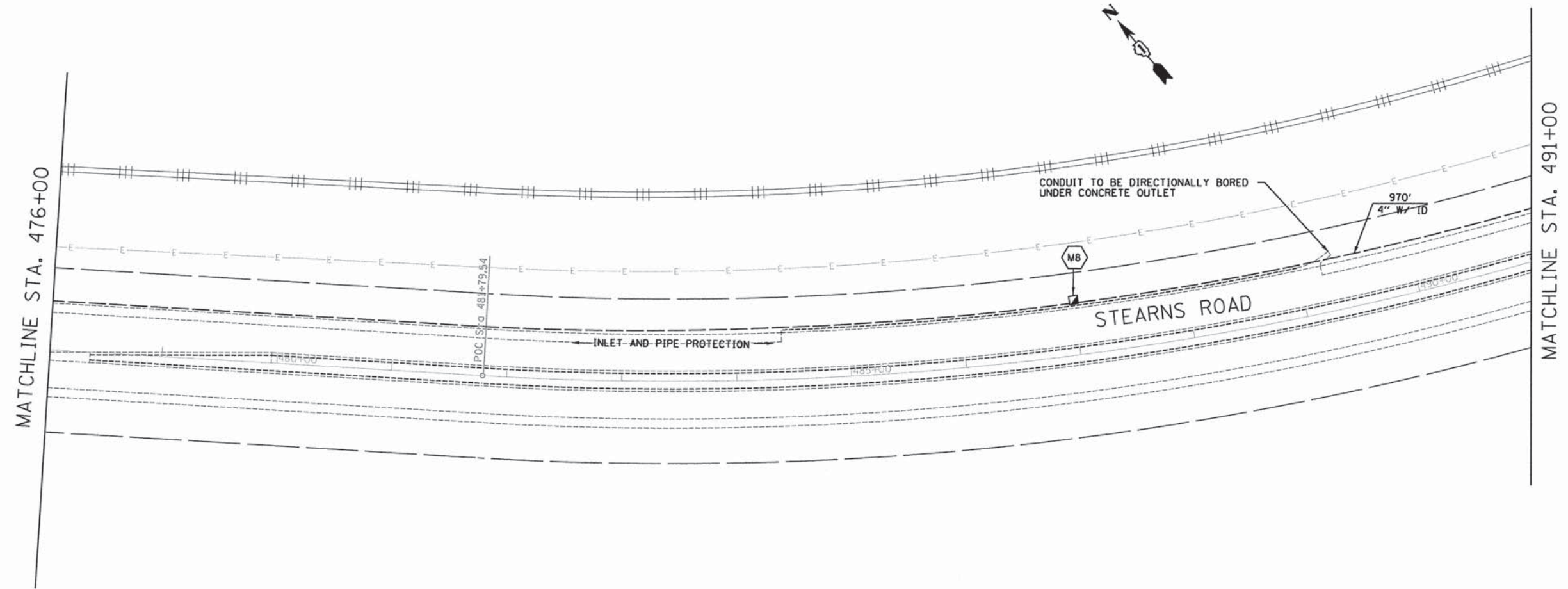
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ITS PLANS
STEARNS ROAD (SHEET 4 OF 18)
SCALE: SHEET NO. ___ OF ___ SHEETS STA. _____ TO STA. _____

F.A.P. RTE. 361	SECTION 11-00214-00-TL	COUNTY KANE	TOTAL SHEETS 47	SHEET NO. 8
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 61A36	

5/20/2014



- NOTES:**
1. UNDERGROUND CONDUIT FOR FIBER OPTIC BACKBONE SHALL BE INSTALLED 2' BEHIND BACK OF CURB OR BACK OF SHOULDER UNLESS OTHERWISE INDICATED ON THE PLANS.
 2. CONDUIT SHALL BE INSTALLED AND GROUND RESTORED WITHIN THE SAME WORKING DAY. IF CONDUIT EXCAVATION WILL BE OPEN MORE THAN ONE WORKING DAY CONTRACTOR MUST INSTALL PERIMETER EROSION BARRIER AND ORANGE TEMPORARY FENCING TO PROTECT DITCH.

RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY. SOD SHALL BE WATERED AS DIRECTED BY ENGINEER AND PER ACT 252.08 & 252.09 IN STP SPECS.

SEE COMMUNICATIONS SCHEMATIC SHEET 34 FOR NETWORK COMMUNICATIONS

SCHEDULE OF QUANTITIES - INTERCONNECT (5 OF 18)

ITEM	UNIT	QUANTITY
INLET AND PIPE PROTECTION	EACH	2
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA	FOOT	1287
HANDHOLE	EACH	1
THREE-CELL FABRIC INNERDUCT	FOOT	1287

INTERCONNECT PLAN LEGEND		
	PROPOSED	EXISTING
POLE MOUNTED CABINET, TYPE B		
CONTROLLER CABINET TYPE IV		
MAST ARM ASSEMBLY AND POLE, STEEL		
HANDHOLE		
DOUBLE HANDHOLE		
HEAVY DUTY HANDHOLE		
G.S. CONDUIT IN GROUND (CIG)		
DETECTOR LOOP SYSTEM		
THREE-CELL FABRIC INNERDUCT		
STAINLESS STEEL JUNCTION BOX		
MANHOLE/HANDHOLE NUMBER		
INTERSECTION VIDEO TRAFFIC MONITORING SYSTEM WITH PTZ CAMERA		
VIDEO DETECTION CAMERA		
RADAR SPEED SIGN		
ELECTRICAL SERVICE		
RADAR VEHICLE DETECTION SYSTEM		

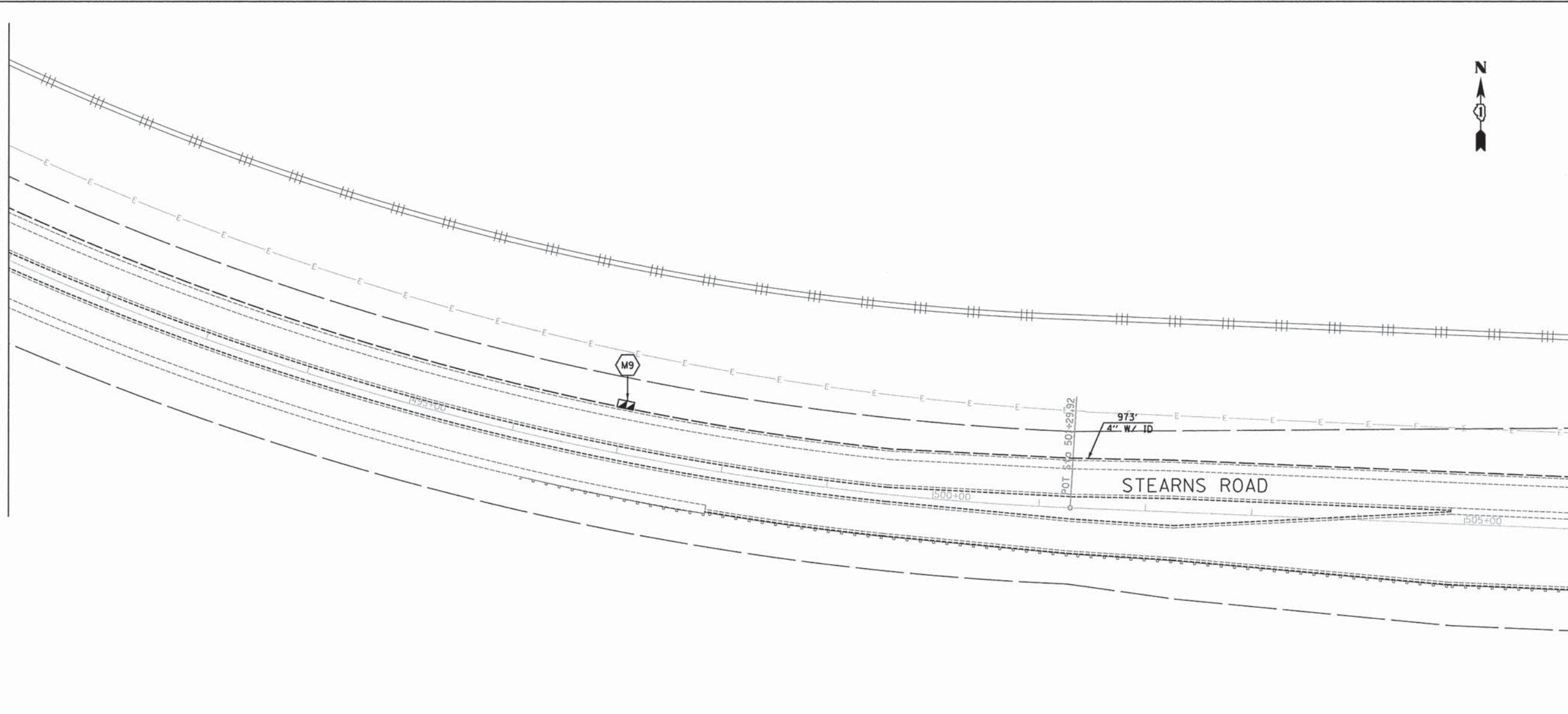
SEE TRAFFIC SIGNAL LEGEND SHEET 28 FOR ADDITIONAL SYMBOLS

JACOBS 525 WEST MONROE CHICAGO IL, 60661 312-251-3000	USER NAME *	DESIGNED - CH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ITS PLANS STEARNS ROAD (SHEET 5 OF 18)		F.A.P. RTE. 361	SECTION 11-00214-00-TL	COUNTY KANE	TOTAL SHEETS 47	SHEET NO. 9		
	PLOT SCALE *	CHECKED - KG	REVISED -		SCALE:	SHEET NO. ___ OF ___ SHEETS	STA. _____ TO STA. _____	CONTRACT NO. 61A36					
	PLOT DATE = 5/20/2014	DATE - #DATE	REVISED -		FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT								

5/28/2014
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MATCHLINE STA. 491+00

MATCHLINE STA. 506+00



NOTES:

1. UNDERGROUND CONDUIT FOR FIBER OPTIC BACKBONE SHALL BE INSTALLED 2' BEHIND BACK OF CURB OR BACK OF SHOULDER UNLESS OTHERWISE INDICATED ON THE PLANS.
2. CONDUIT SHALL BE INSTALLED AND GROUND RESTORED WITHIN THE SAME WORKING DAY. IF CONDUIT EXCAVATION WILL BE OPEN MORE THAN ONE WORKING DAY CONTRACTOR MUST INSTALL PERIMETER EROSION BARRIER AND ORANGE TEMPORARY FENCING TO PROTECT DITCH.

RESTORATION OF WORK AREA: RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDING IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY. SOD SHALL BE WATERED AS DIRECTED BY ENGINEER AND PER ACT 252.08 & 252.09 IN STP SPECS.

SEE COMMUNICATIONS SCHEMATIC SHEET 34 FOR NETWORK COMMUNICATIONS

SCHEDULE OF QUANTITIES - INTERCONNECT (6 OF 18)

ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA	FOOT	1490
DOUBLE HANDHOLE	EACH	1
THREE-CELL FABRIC INNERDUCT	FOOT	1490

INTERCONNECT PLAN LEGEND		
	PROPOSED	EXISTING
POLE MOUNTED CABINET, TYPE B		
CONTROLLER CABINET TYPE IV		
MAST ARM ASSEMBLY AND POLE, STEEL		
HANDHOLE		
DOUBLE HANDHOLE		
HEAVY DUTY HANDHOLE		
G.S. CONDUIT IN GROUND (CIG)		
DETECTOR LOOP SYSTEM		
THREE-CELL FABRIC INNERDUCT		
STAINLESS STEEL JUNCTION BOX		
MANHOLE/HANDHOLE NUMBER		
INTERSECTION VIDEO TRAFFIC MONITORING SYSTEM WITH PTZ CAMERA		
VIDEO DETECTION CAMERA		
RADAR SPEED SIGN		
ELECTRICAL SERVICE		
RADAR VEHICLE DETECTION SYSTEM		

SEE TRAFFIC SIGNAL LEGEND SHEET 28 FOR ADDITIONAL SYMBOLS

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CHICAGO IL, 60661
312-251-3000

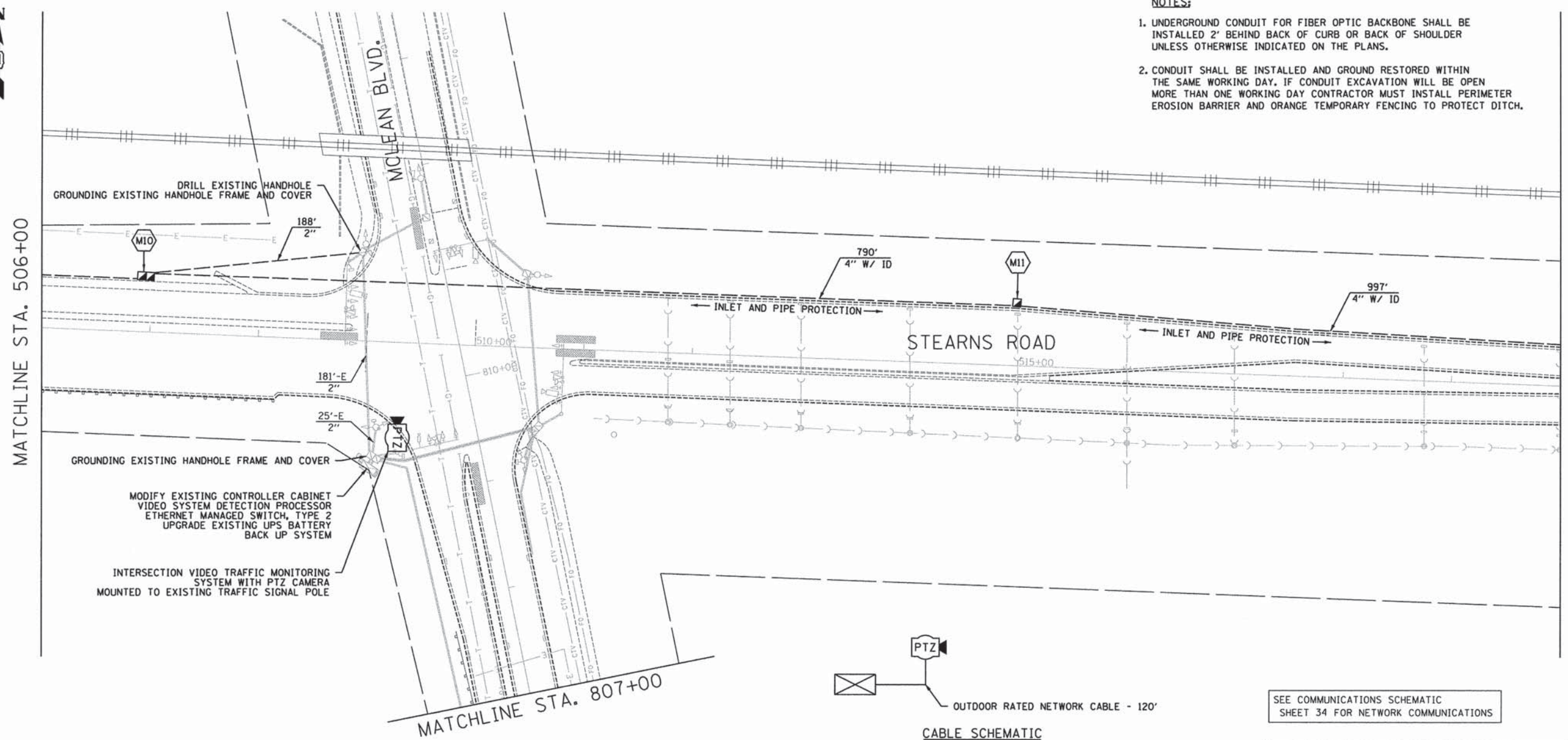
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ITS PLANS
STEARNS ROAD (SHEET 6 OF 18)**

F.A.P. RTE. 361	SECTION 11-00214-00-TL	COUNTY KANE	TOTAL SHEETS 47	SHEET NO. 10
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 61A36	

5/28/2014



NOTES:

1. UNDERGROUND CONDUIT FOR FIBER OPTIC BACKBONE SHALL BE INSTALLED 2' BEHIND BACK OF CURB OR BACK OF SHOULDER UNLESS OTHERWISE INDICATED ON THE PLANS.
2. CONDUIT SHALL BE INSTALLED AND GROUND RESTORED WITHIN THE SAME WORKING DAY. IF CONDUIT EXCAVATION WILL BE OPEN MORE THAN ONE WORKING DAY CONTRACTOR MUST INSTALL PERIMETER EROSION BARRIER AND ORANGE TEMPORARY FENCING TO PROTECT DITCH.

MATCHLINE STA. 506+00

MATCHLINE STA. 520+00

MATCHLINE STA. 807+00

RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY. SOD SHALL BE WATERED AS DIRECTED BY ENGINEER AND PER ACT 252.08 & 252.09 IN STP SPECS.

SCHEDULE OF QUANTITIES - INTERCONNECT (7 OF 18)

ITEM	UNIT	QUANTITY
INLET AND PIPE PROTECTION	EACH	8
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA	FOOT	1378
HANDHOLE	EACH	1
DOUBLE HANDHOLE	EACH	1
THREE-CELL FABRIC INNERDUCT	FOOT	1378

SCHEDULE OF QUANTITIES - STEARNS ROAD AND MCLEAN BLVD

ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	188
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
GROUNDING EXISTING HANDHOLE FRAME AND COVER	EACH	2
DRILL EXISTING HANDHOLE	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
VIDEO SYSTEM DETECTION PROCESSOR	EACH	1
INTERSECTION VIDEO TRAFFIC MONITORING SYSTEM WITH PTZ CAMERA	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	120
UPGRADE EXISTING UPS BATTERY BACK UP SYSTEM	EACH	1
ETHERNET MANAGED SWITCH, TYPE 2	EACH	1
REOPTIMIZE TRAFFIC SIGNAL SYSTEM, LEVEL 2	EACH	1

SEE COMMUNICATIONS SCHEMATIC SHEET 34 FOR NETWORK COMMUNICATIONS

CABLE SCHEMATIC



INTERCONNECT PLAN LEGEND

	PROPOSED	EXISTING
POLE MOUNTED CABINET, TYPE B		
CONTROLLER CABINET TYPE IV		
MAST ARM ASSEMBLY AND POLE, STEEL		
HANDHOLE		
DOUBLE HANDHOLE		
HEAVY DUTY HANDHOLE		
G.S. CONDUIT IN GROUND (CIG)		
DETECTOR LOOP SYSTEM		
THREE-CELL FABRIC INNERDUCT		
STAINLESS STEEL JUNCTION BOX		
MANHOLE/HANDHOLE NUMBER		
INTERSECTION VIDEO TRAFFIC MONITORING SYSTEM WITH PTZ CAMERA		
VIDEO DETECTION CAMERA		
RADAR SPEED SIGN		
ELECTRICAL SERVICE		
RADAR VEHICLE DETECTION SYSTEM		

SEE TRAFFIC SIGNAL LEGEND SHEET 28 FOR ADDITIONAL SYMBOLS

PA_2013_051313090700_CADD_SHEET_7.dgn

JACOBS
525 WEST MONROE
CHICAGO IL, 60661
312-251-3000

USER NAME =	DESIGNED - CH	REVISED -
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	DATE - #DATE	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ITS PLANS
STEARNS ROAD AND MCLEAN BLVD (SHEET 7 OF 18)**

F.A.P. RTE. 361	SECTION 11-00214-00-TL	COUNTY KANE	TOTAL SHEETS 47	SHEET NO. 11
SCALE: SHEET NO. ___ OF ___ SHEETS STA. _____ TO STA. _____			CONTRACT NO. 61A36	
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

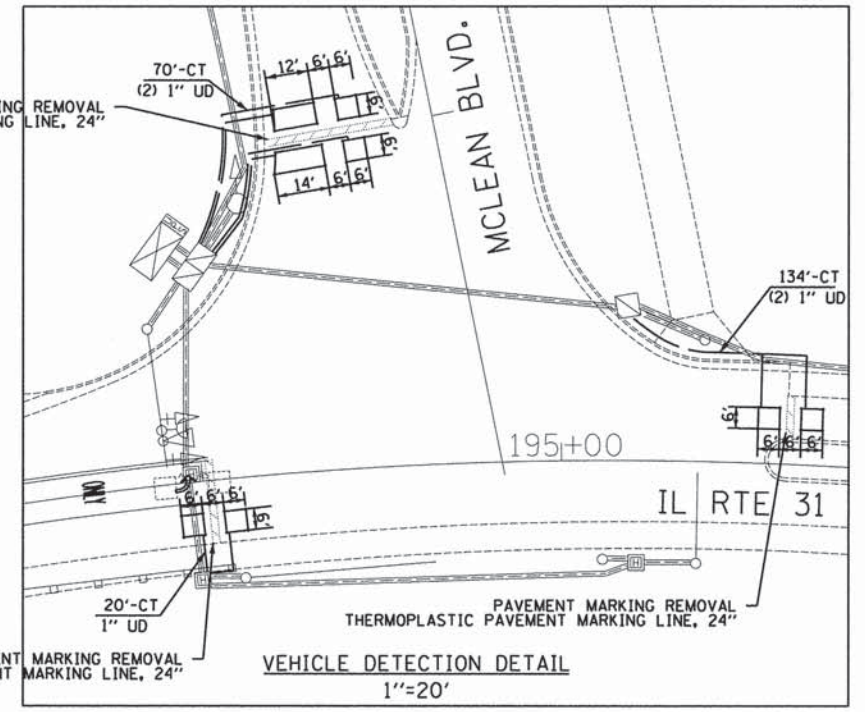
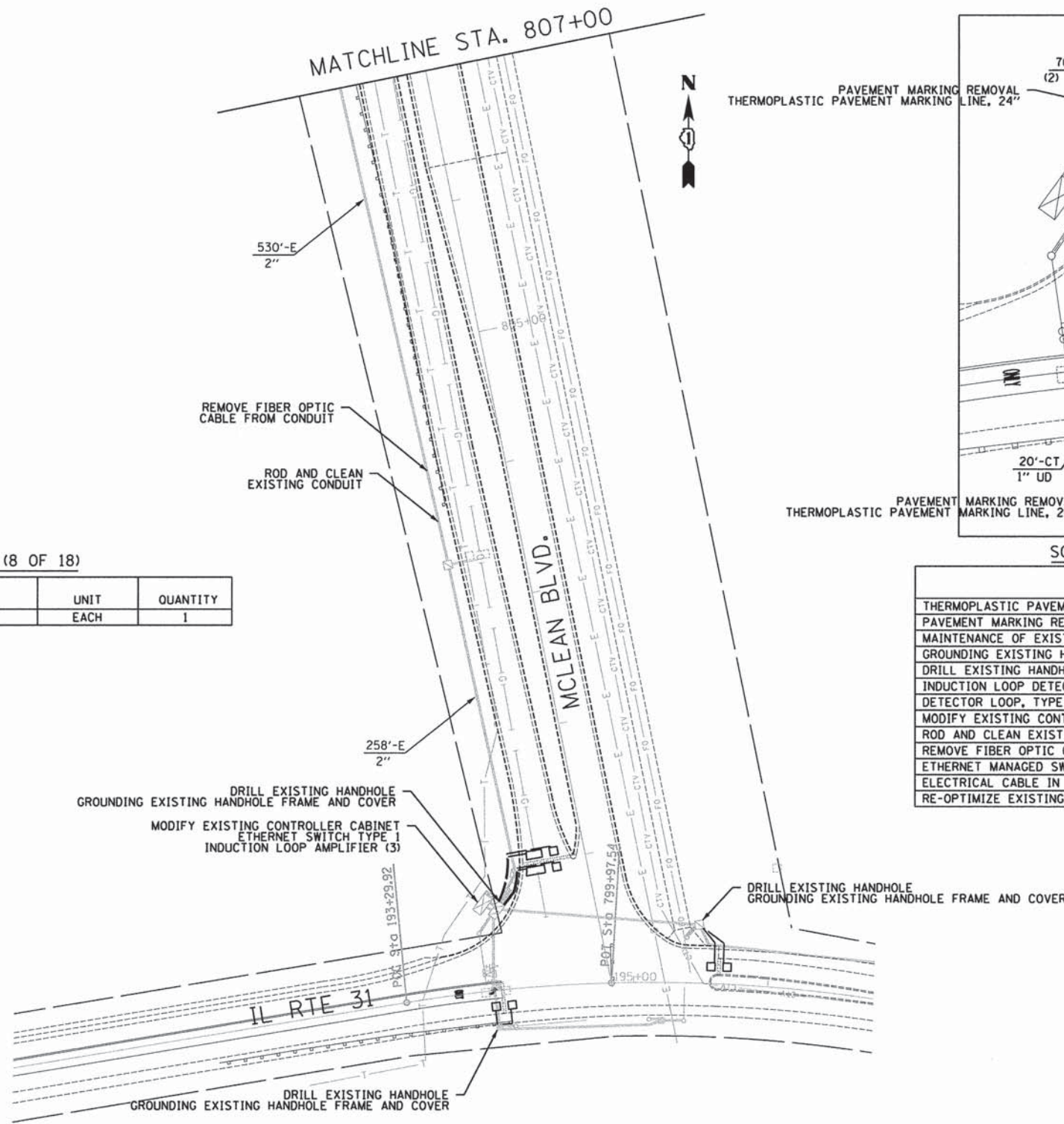
5/28/2014
 PL: 2013/CXK/30807288 CADD/SHEET 8.dgn

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF OUTSIDE THE RIGHT-OF-WAY AT THE CONTRACTOR'S EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

879 FOOT FIBER OPTIC CABLE

SCHEDULE OF QUANTITIES - INTERCONNECT (8 OF 18)

ITEM	UNIT	QUANTITY
TEMPORARY TRAFFIC SIGNAL INTERCONNECT	EACH	1



SCHEDULE OF QUANTITIES - MCLEAN AND IL RTE 31

ITEM	UNIT	QUANTITY
THERMOPLASTIC PAVEMENT MARKING LINE, 24"	FOOT	72
PAVEMENT MARKING REMOVAL	SO FT	144
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
GROUNDING EXISTING HANDHOLE FRAME AND COVER	EACH	3
DRILL EXISTING HANDHOLE	EACH	3
INDUCTION LOOP DETECTOR AMPLIFIER	EACH	3
DETECTOR LOOP, TYPE I	FOOT	219
MODIFY EXISTING CONTROLLER CABINET	EACH	1
ROD AND CLEAN EXISTING CONDUIT	FOOT	879
REMOVE FIBER OPTIC CABLE FROM CONDUIT	FOOT	879
ETHERNET MANAGED SWITCH, TYPE I	EACH	1
ELECTRICAL CABLE IN CONDUIT, LEAD IN, NO. 14 1 PAIR	FOOT	1250
RE-OPTIMIZE EXISTING SIGNAL SYSTEM, LEVEL 2	EACH	1

RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY. SOD SHALL BE WATERED AS DIRECTED BY ENGINEER AND PER ACT 252.08 & 252.09 IN STP SPECS.

SEE COMMUNICATIONS SCHEMATIC SHEET 34 FOR NETWORK COMMUNICATIONS

- NOTES:**
- UNDERGROUND CONDUIT FOR FIBER OPTIC BACKBONE SHALL BE INSTALLED 2' BEHIND BACK OF CURB OR BACK OF SHOULDER UNLESS OTHERWISE INDICATED ON THE PLANS.

INTERCONNECT PLAN LEGEND

	PROPOSED	EXISTING
POLE MOUNTED CABINET, TYPE B		
CONTROLLER CABINET TYPE IV		
MAST ARM ASSEMBLY AND POLE, STEEL		
HANDHOLE		
DOUBLE HANDHOLE		
HEAVY DUTY HANDHOLE		
G.S. CONDUIT IN GROUND (CIG)		
DETECTOR LOOP		
SYSTEM	S	
THREE-CELL FABRIC INNERDUCT	ID	
STAINLESS STEEL JUNCTION BOX		
MANHOLE/HANDHOLE NUMBER		
INTERSECTION VIDEO TRAFFIC MONITORING SYSTEM WITH PTZ CAMERA		
VIDEO DETECTION CAMERA		
RADAR SPEED SIGN		
ELECTRICAL SERVICE		
RADAR VEHICLE DETECTION SYSTEM		

SEE TRAFFIC SIGNAL LEGEND SHEET 28 FOR ADDITIONAL SYMBOLS

JACOBS
 525 WEST MONROE
 CHICAGO IL, 60661
 312-251-3000

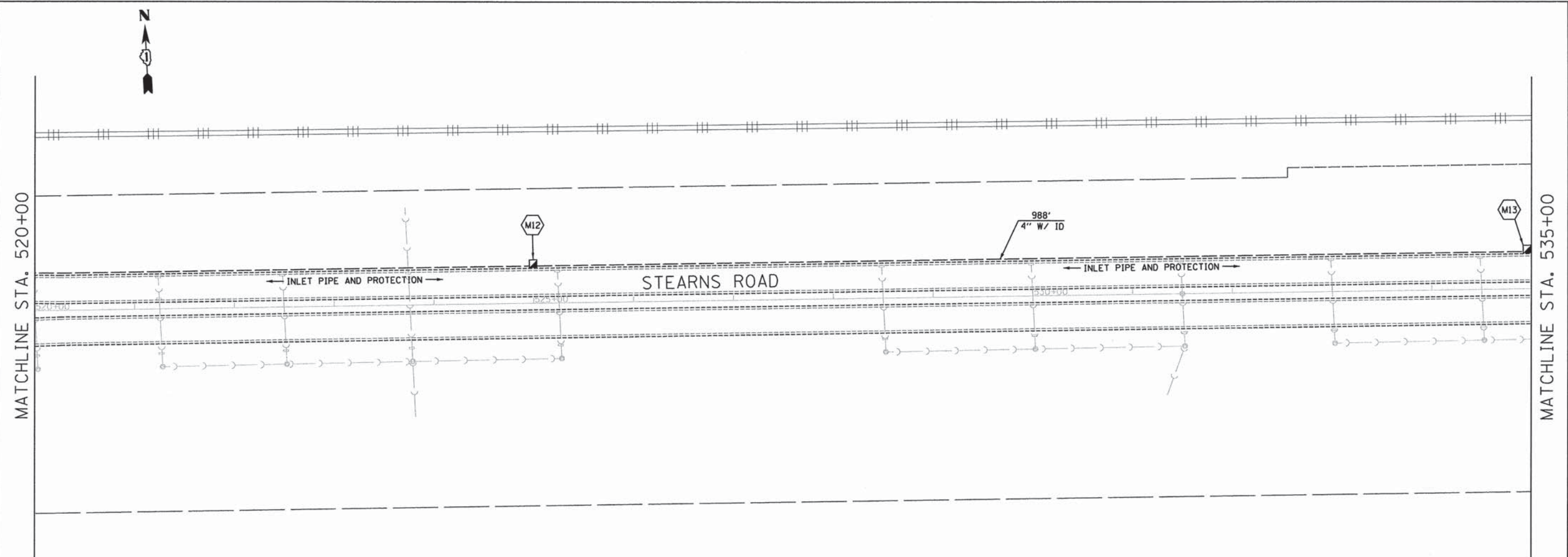
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PLLOT DATE * 5/28/2014	CHECKED - KG	REVISED -
	DATE - *DATE	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ITS PLANS
 MCLEAN BLVD AND IL RTE 31 (SHEET 8 OF 18)
 SCALE: SHEET NO. ___ OF ___ SHEETS STA. _____ TO STA. _____

F.A.P. RTE. 361	SECTION 11-00214-00-TL	COUNTY KANE	TOTAL SHEETS 47	SHEET NO. 12
CONTRACT NO. 61A36			FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT	

5/28/2014



NOTES:

1. UNDERGROUND CONDUIT FOR FIBER OPTIC BACKBONE SHALL BE INSTALLED 2' BEHIND BACK OF CURB OR BACK OF SHOULDER UNLESS OTHERWISE INDICATED ON THE PLANS.
2. CONDUIT SHALL BE INSTALLED AND GROUND RESTORED WITHIN THE SAME WORKING DAY. IF CONDUIT EXCAVATION WILL BE OPEN MORE THAN ONE WORKING DAY CONTRACTOR MUST INSTALL PERIMETER EROSION BARRIER AND ORANGE TEMPORARY FENCING TO PROTECT DITCH.

RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY. SOD SHALL BE WATERED AS DIRECTED BY ENGINEER AND PER ACT 252.08 & 252.09 IN STP SPECS.

SEE COMMUNICATIONS SCHEMATIC SHEET 34 FOR NETWORK COMMUNICATIONS

SCHEDULE OF QUANTITIES - INTERCONNECT (9 OF 18)

ITEM	UNIT	QUANTITY
INLET AND PIPE PROTECTION	EACH	11
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA	FOOT	1484
HANDHOLE	EACH	1
DOUBLE HANDHOLE	EACH	1
THREE-CELL FABRIC INNERDUCT	FOOT	1484

INTERCONNECT PLAN LEGEND		
	PROPOSED	EXISTING
POLE MOUNTED CABINET, TYPE B		
CONTROLLER CABINET TYPE IV		
MAST ARM ASSEMBLY AND POLE, STEEL		
HANDHOLE		
DOUBLE HANDHOLE		
HEAVY DUTY HANDHOLE		
G.S. CONDUIT IN GROUND (CIG)		
DETECTOR LOOP		
SYSTEM	S	
THREE-CELL FABRIC INNERDUCT	ID	
STAINLESS STEEL JUNCTION BOX		
MANHOLE/HANDHOLE NUMBER		
INTERSECTION VIDEO TRAFFIC MONITORING SYSTEM WITH PTZ CAMERA		
VIDEO DETECTION CAMERA		
RADAR SPEED SIGN		
ELECTRICAL SERVICE		
RADAR VEHICLE DETECTION SYSTEM		

SEE TRAFFIC SIGNAL LEGEND SHEET 28 FOR ADDITIONAL SYMBOLS

PL 2013/C9K13988/700 CADD SHEET 9.dgn

JACOBS
525 WEST MONROE
CHICAGO IL, 60661
312-251-3000

USER NAME *	DESIGNED - CH	REVISED -
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PLOT DATE * 5/28/2014	CHECKED - KG	REVISED -
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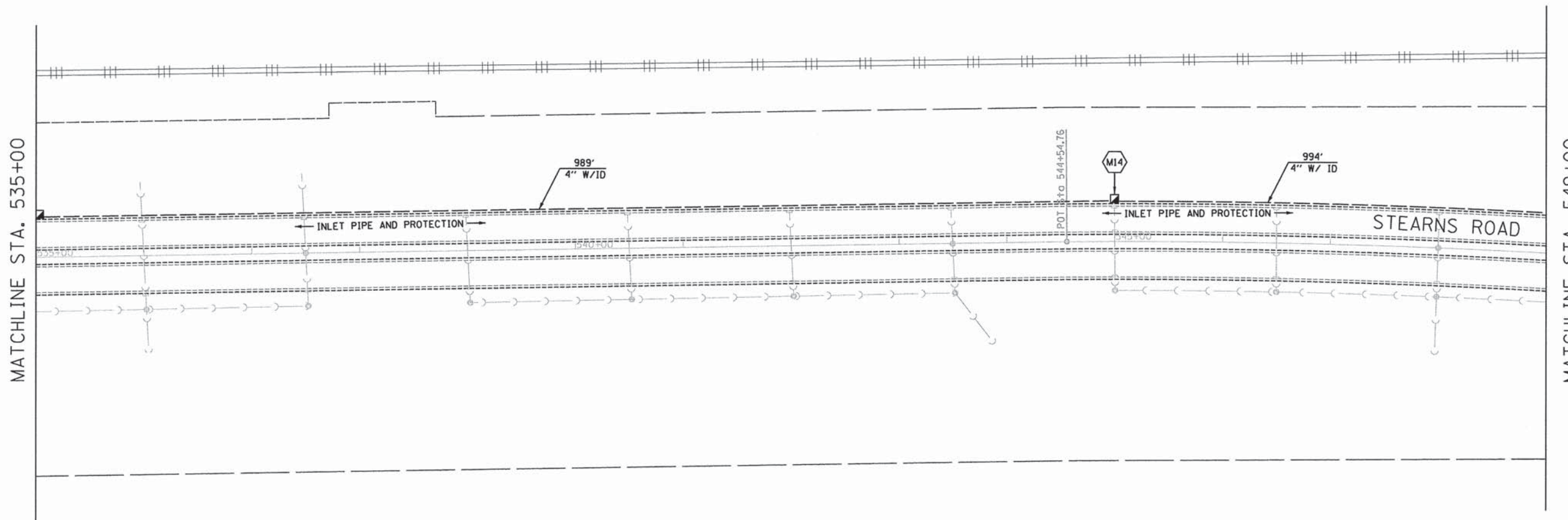
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ITS PLANS
STEARNS ROAD (SHEET 9 OF 18)**

SCALE: SHEET NO. 9 OF 18 SHEETS STA. TO STA.

F.A.P. RTE. 361	SECTION 11-00214-00-TL	COUNTY KANE	TOTAL SHEETS 47	SHEET NO. 13
FED. ROAD DIST. NO. ILLINOIS			CONTRACT NO. 61A36	

5/28/2014



NOTES:

1. UNDERGROUND CONDUIT FOR FIBER OPTIC BACKBONE SHALL BE INSTALLED 2' BEHIND BACK OF CURB OR BACK OF SHOULDER UNLESS OTHERWISE INDICATED ON THE PLANS.
2. CONDUIT SHALL BE INSTALLED AND GROUND RESTORED WITHIN THE SAME WORKING DAY. IF CONDUIT EXCAVATION WILL BE OPEN MORE THAN ONE WORKING DAY CONTRACTOR MUST INSTALL PERIMETER EROSION BARRIER AND ORANGE TEMPORARY FENCING TO PROTECT DITCH.

RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY. SOD SHALL BE WATERED AS DIRECTED BY ENGINEER AND PER ACT 252.08 & 252.09 IN STP SPECS.

SEE COMMUNICATIONS SCHEMATIC SHEET 34 FOR NETWORK COMMUNICATIONS

SCHEDULE OF QUANTITIES - INTERCONNECT (10 OF 18)

ITEM	UNIT	QUANTITY
INLET AND PIPE PROTECTION	EACH	9
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA	FOOT	1385
HANDHOLE	EACH	1
THREE-CELL FABRIC INNERDUCT	FOOT	1385

INTERCONNECT PLAN LEGEND		
	PROPOSED	EXISTING
POLE MOUNTED CABINET, TYPE B		
CONTROLLER CABINET TYPE IV		
MAST ARM ASSEMBLY AND POLE, STEEL		
HANDHOLE		
DOUBLE HANDHOLE		
HEAVY DUTY HANDHOLE		
G.S. CONDUIT IN GROUND (CIG)		
DETECTOR LOOP		
SYSTEM	S	
THREE-CELL FABRIC INNERDUCT	ID	
STAINLESS STEEL JUNCTION BOX		
MANHOLE/HANDHOLE NUMBER		
INTERSECTION VIDEO TRAFFIC MONITORING SYSTEM WITH PTZ CAMERA		
VIDEO DETECTION CAMERA		
RADAR SPEED SIGN		
ELECTRICAL SERVICE		
RADAR VEHICLE DETECTION SYSTEM		

SEE TRAFFIC SIGNAL LEGEND SHEET 28 FOR ADDITIONAL SYMBOLS

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525 WEST MONROE
CHICAGO IL, 60661
312-251-3000

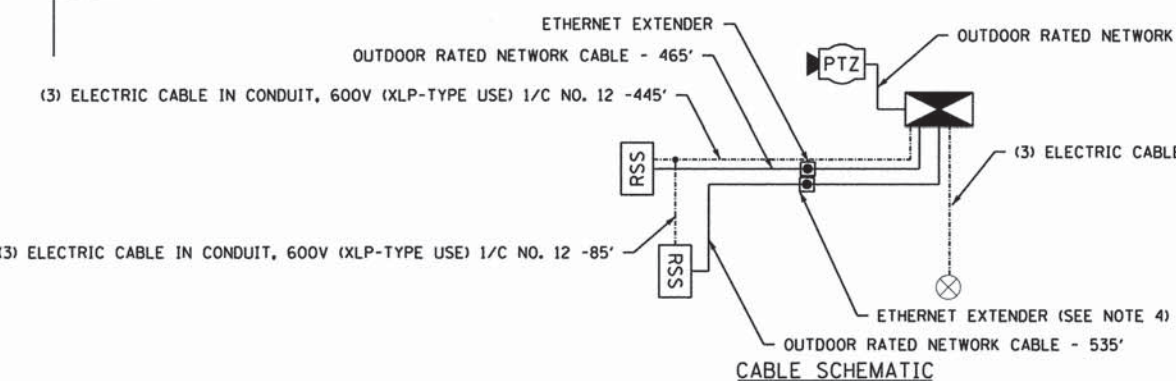
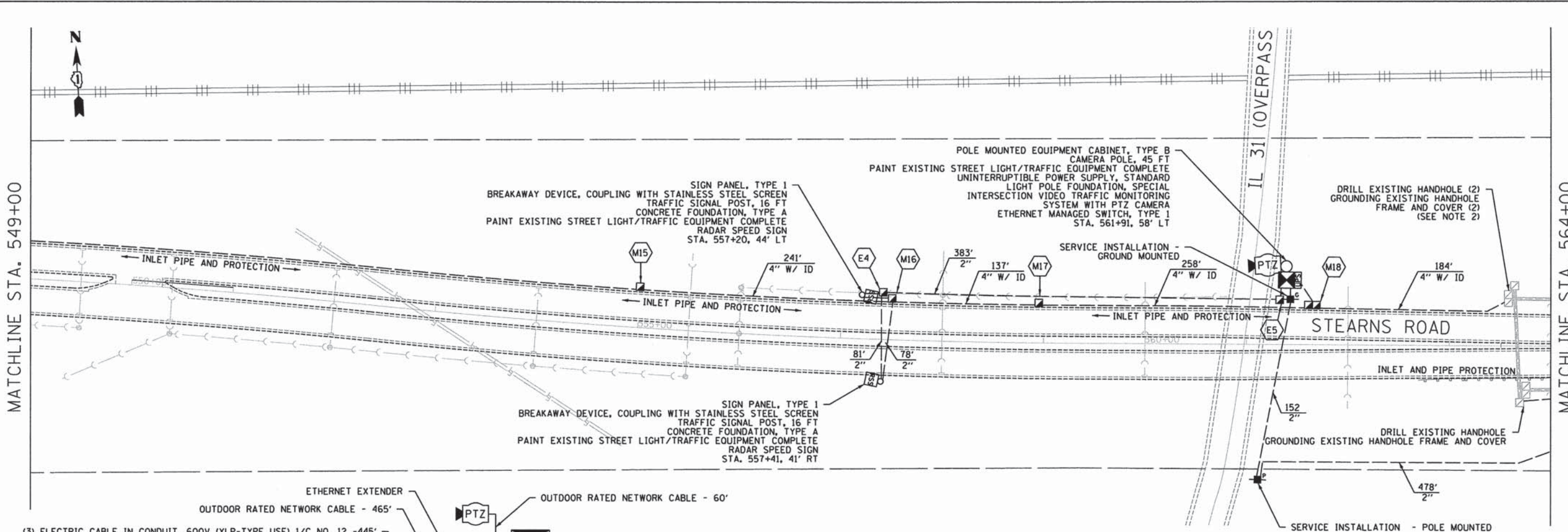
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PLOT SCALE *	DRAWN - KB, DL	REVISED -
PLOT DATE = 5/28/2014	CHECKED - KG	REVISED -
	DATE - #DATE	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ITS PLANS
STEARNS ROAD (SHEET 10 OF 18)**
SCALE: SHEET NO. ___ OF ___ SHEETS STA. _____ TO STA. _____

F.A.P. RTE. 361	SECTION 11-00214-00-TL	COUNTY KANE	TOTAL SHEETS 47	SHEET NO. 14
FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT			CONTRACT NO. 61A36	

5/28/2014
 PL: 2013.000139800.700 CADD SHEET 11.dgn

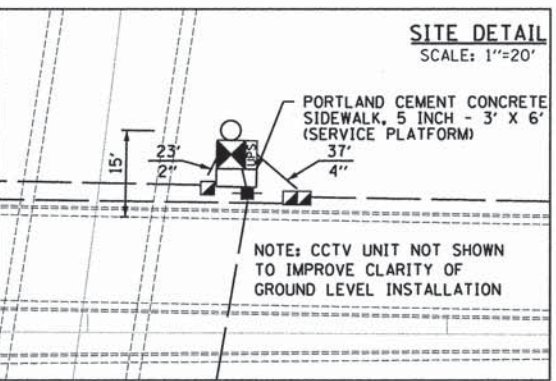


(3) ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 12 -445'

(3) ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 2 - 400'

(3) ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 12 -85'

- NOTES:**
- UNDERGROUND CONDUIT FOR FIBER OPTIC BACKBONE SHALL BE INSTALLED 2' BEHIND BACK OF CURB OR BACK OF SHOULDER UNLESS OTHERWISE INDICATED ON THE PLANS.
 - CONNECT DOUBLE HANDHOLE TO SINGLE HANDHOLE
 - ELECTRICAL DEVICE AND COMMUNICATIONS CABLES TO BE RUN IN SEPERATE CONDUITS/HANDHOLES.
 - ETHERNET EXTENDER TO BE PLACED IN A HANDHOLE NEAR THE MIDPOINT OF THE CCTV AND CONTROLLER CABINET. ETHERNET EXTENDER TO BE PAID FOR UNDER OUTDOOR RATED NETWORK CABLE.
 - EARTH EXCAVATION RELATED TO THE INSTALLATION OF FOUNDATIONS AND PCC SIDEWALK 5 IN SHALL BE CONSIDERED INCIDENTAL TO THESE ITEMS.
 - CONDUIT SHALL BE INSTALLED AND GROUND RESTORED WITHIN THE SAME WORKING DAY. IF CONDUIT EXCAVATION WILL BE OPEN MORE THAN ONE WORKING DAY CONTRACTOR MUST INSTALL PERIMETER EROSION BARRIER AND ORANGE TEMPORARY FENCING TO PROTECT DITCH.
 - SERVICE INSTALLATION SHALL CONSIST OF AN IDOT STANDARD POLE MOUNTED SERVICE INSTALLATION AND A GROUND MOUNTED SERVICE DISCONNECT. METER HOUSING SHALL BE INSTALLED ON THE COMED POLE.



SCHEDULE OF QUANTITIES - INTERCONNECT (11 OF 18)

ITEM	UNIT	QUANTITY
INLET AND PIPE PROTECTION	EACH	11
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA	FOOT	1455
HANDHOLE	FOOT	3
DOUBLE HANDHOLE	EACH	1
THREE-CELL FABRIC INNERDUCT	EACH	1502

SCHEDULE OF QUANTITIES - STEARNS ROAD AND IL RTE 31

ITEM	UNIT	QUANTITY
PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	SO FT	18
SIGN PANEL, TYPE 1	SO FT	15
SERVICE INSTALLATION - GROUND MOUNTED	EACH	1
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1195
HANDHOLE	EACH	2
ELECTRICAL CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 12	FOOT	1590
ELECTRICAL CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 2	FOOT	1200
UNINTERRUPTIBLE POWER SUPPLY, STANDARD	EACH	1
BREAKAWAY DEVICE, COUPLING WITH STAINLESS STEEL SCREEN	EACH	2
GROUNDING EXISTING HANDHOLE FRAME AND COVER	EACH	3
TRAFFIC SIGNAL POST, 16 FT	EACH	2
CONCRETE FOUNDATION, TYPE A	FOOT	10
DRILL EXISTING HANDHOLE	EACH	3
CAMERA POLE, 45 FT	EACH	1
POLE MOUNTED EQUIPMENT CABINET, TYPE B	EACH	1
PAINT EXISTING STREET LIGHT/TRAFFIC EQUIPMENT COMPLETE	EACH	3
RADAR SPEED SIGN	EACH	2
LIGHT POLE FOUNDATION, SPECIAL	EACH	1
INTERSECTION VIDEO TRAFFIC MONITORING SYSTEM WITH PTZ CAMERA	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	1060
ETHERNET MANAGED SWITCH, TYPE 1	EACH	1

SEE COMMUNICATIONS SCHEMATIC SHEET 34 FOR NETWORK COMMUNICATIONS

RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY. SOD SHALL BE WATERED AS DIRECTED BY ENGINEER AND PER ACT 252.08 & 252.09 IN STP SPECS.

INTERCONNECT PLAN LEGEND

	PROPOSED	EXISTING
POLE MOUNTED CABINET, TYPE B		
CONTROLLER CABINET TYPE IV		
MAST ARM ASSEMBLY AND POLE, STEEL		
HANDHOLE		
DOUBLE HANDHOLE		
HEAVY DUTY HANDHOLE		
G.S. CONDUIT IN GROUND (CIG)		
DETECTOR LOOP		
SYSTEM	S	□
THREE-CELL FABRIC INNERDUCT	ID	
STAINLESS STEEL JUNCTION BOX		
MANHOLE/HANDHOLE NUMBER		
INTERSECTION VIDEO TRAFFIC MONITORING SYSTEM WITH PTZ CAMERA		
VIDEO DETECTION CAMERA		
RADAR SPEED SIGN		
ELECTRICAL SERVICE		
RADAR VEHICLE DETECTION SYSTEM		

SEE TRAFFIC SIGNAL LEGEND SHEET 28 FOR ADDITIONAL SYMBOLS

JACOBS
 525 WEST MONROE
 CHICAGO IL, 60661
 312-251-3000

USER NAME *	DESIGNED - CH	REVISED -
PLLOT SCALE *	DRAWN - KB, DL	REVISED -
PLLOT DATE * 5/28/2014	CHECKED - KG	REVISED -
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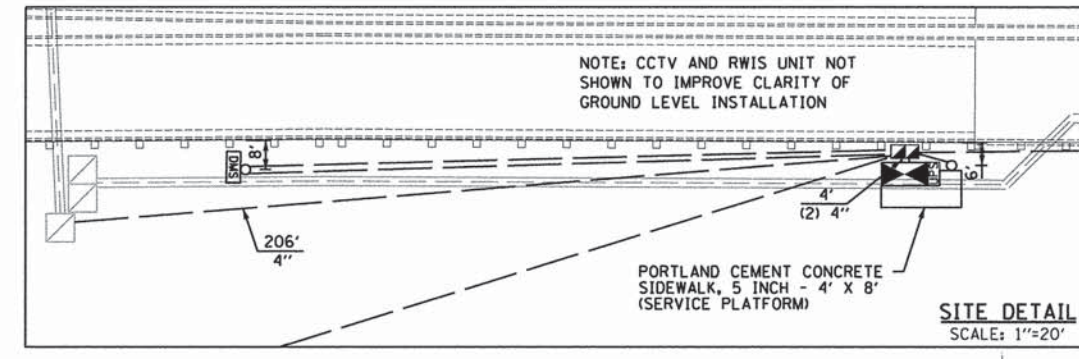
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ITS PLANS
STEARNS ROAD (SHEET 11 OF 18)

SCALE: SHEET NO. ___ OF ___ SHEETS STA. _____ TO STA. _____

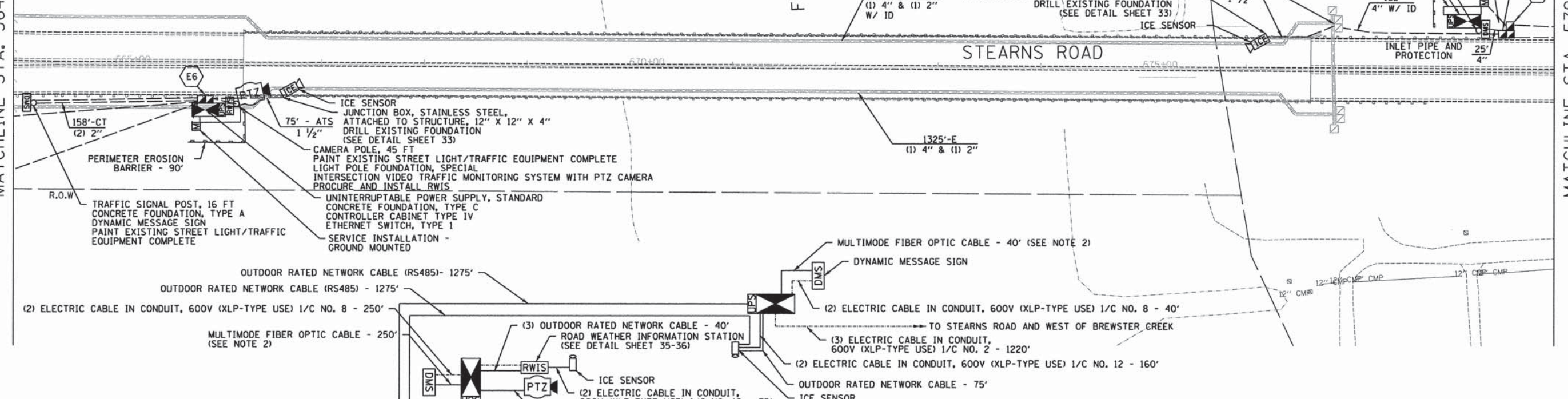
F.A.P. RTE. 361	SECTION 11-00214-00-TL	COUNTY KANE	TOTAL SHEETS 47	SHEET NO. 15
CONTRACT NO. 61A36			FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT	

5/20/2014
 MATCHLINE STA. 564+00
 MATCHLINE STA. 579+00



SCHEDULE OF QUANTITIES - INTERCONNECT (12 OF 18)

ITEM	UNIT	QUANTITY
INLET AND PIPE PROTECTION	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA	FOOT	430
DOUBLE HANDHOLE	EACH	1
MAINTENANCE OF LIGHTING SYSTEM	L SUM	1
THREE-CELL FABRIC INNERDUCT	FOOT	1520



CABLE SCHEMATIC

SEE COMMUNICATIONS SCHEMATIC SHEET 34 FOR NETWORK COMMUNICATIONS

RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY. SOD SHALL BE WATERED AS DIRECTED BY ENGINEER AND PER ACT 252.08 & 252.09 IN STP SPECS.

INTERCONNECT PLAN LEGEND

	PROPOSED	EXISTING
POLE MOUNTED CABINET, TYPE B		
CONTROLLER CABINET TYPE IV		
MAST ARM ASSEMBLY AND POLE, STEEL		
HANDHOLE		
DOUBLE HANDHOLE		
HEAVY DUTY HANDHOLE		
G.S. CONDUIT IN GROUND (CIG)		
DETECTOR LOOP		
SYSTEM	S	
THREE-CELL FABRIC INNERDUCT	ID	
STAINLESS STEEL JUNCTION BOX		
MANHOLE/HANDHOLE NUMBER		
INTERSECTION VIDEO TRAFFIC MONITORING SYSTEM WITH PTZ CAMERA		
VIDEO DETECTION CAMERA		
RADAR SPEED SIGN		
ELECTRICAL SERVICE		
RADAR VEHICLE DETECTION SYSTEM		

SEE TRAFFIC SIGNAL LEGEND SHEET 28 FOR ADDITIONAL SYMBOLS

SCHEDULE OF QUANTITIES - STEARNS ROAD AT FOX RIVER

ITEM	UNIT	QUANTITY
PERIMETER EROSION BARRIER	FOOT	180
PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	SQ FT	64
SERVICE INSTALLATION - GROUND MOUNTED	EACH	2
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	587
CONDUIT ATTACHED TO STRUCTURE, 1 1/2" DIA., GALVANIZED STEEL	FOOT	150
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12"X12"X4"	EACH	2
HANDHOLE	EACH	1
DOUBLE HANDHOLE	EACH	1
ELECTRICAL CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 12	FOOT	470
ELECTRICAL CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 8	FOOT	580
ELECTRICAL CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 2	FOOT	5500
UNINTERRUPTABLE POWER SUPPLY, STANDARD	EACH	2
CONTROLLER CABINET TYPE IV	EACH	2
GROUNDING EXISTING HANDHOLE FRAME AND COVER	EACH	1
TRAFFIC SIGNAL POST, 16 FT	EACH	2
CONCRETE FOUNDATION, TYPE A	FOOT	10
CONCRETE FOUNDATION, TYPE C	FOOT	8
DRILL EXISTING FOUNDATION	EACH	2
DRILL EXISTING HANDHOLE	EACH	2
CAMERA POLE, 45 FT	EACH	1
DYNAMIC MESSAGE SIGN	EACH	2
PAINT EXISTING STREET LIGHT/TRAFFIC EQUIPMENT COMPLETE	EACH	3
LIGHT POLE FOUNDATION, 10 FT	EACH	1
INTERSECTION VIDEO TRAFFIC MONITORING SYSTEM WITH PTZ CAMERA	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	2805
ETHERNET MANAGED SWITCH, TYPE I	EACH	2
PROCUREMENT AND INSTALLATION OF RWIS	EACH	1

- NOTES:
- UNDERGROUND CONDUIT FOR FIBER OPTIC BACKBONE SHALL BE INSTALLED 2" BEHIND BACK OF CURB OR BACK OF SHOULDER UNLESS OTHERWISE INDICATED ON THE PLANS.
 - MULTIMODE FIBER OPTIC CABLE BETWEEN DMS AND DMS CONTROLLER TO BE PAID FOR AS DYNAMIC MESSAGE SIGN.
 - EARTH EXCAVATION RELATED TO THE INSTALLATION OF FOUNDATIONS AND PCC SIDEWALK, 5 INCH SHALL BE CONSIDERED INCIDENTAL TO THESE ITEMS.
 - FIBER OPTIC CABLES AND FIBER INNERDUCT TO BE PLACED IN EXISTING 4" CONDUIT. ELECTRIC CABLES SHALL BE PLACED IN 2" CONDUIT.
 - CONTRACTOR SHALL MAINTAIN EXISTING LIGHTING SYSTEM.
 - CONDUIT SHALL BE INSTALLED AND GROUND RESTORED WITHIN THE SAME WORKING DAY. IF CONDUIT EXCAVATION WILL BE OPEN MORE THAN ONE WORKING DAY CONTRACTOR MUST INSTALL PERIMETER EROSION BARRIER AND ORANGE TEMPORARY FENCING TO PROTECT DITCH.
 - SERVICE INSTALLATION SHALL CONSIST OF AN IDOT STANDARD POLE MOUNTED SERVICE INSTALLATION AND A GROUND MOUNTED SERVICE DISCONNECT. METER HOUSING SHALL BE INSTALLED ON THE COMED POLE.

JACOBS
 525 WEST MONROE
 CHICAGO IL, 60661
 312-251-3000

USER NAME	DESIGNED	REVISION
CH	CH	REVISION
KB, DL	KB, DL	REVISION
KG	KG	REVISION
DATE	DATE	REVISION

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ITS PLANS
 STEARNS ROAD (SHEET 12 OF 18)
 SCALE: SHEET NO. ___ OF ___ SHEETS STA. _____ TO STA. _____

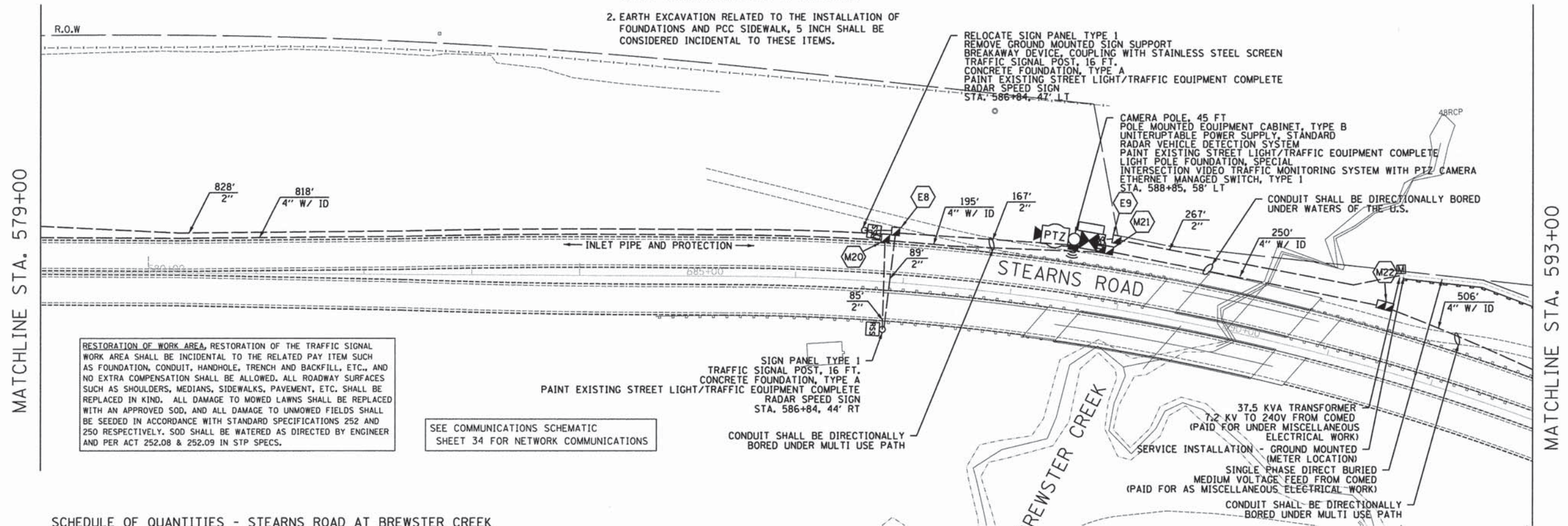
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
361	11-00214-00-TL	KANE	47	16

CONTRACT NO. 61A36
 FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT

5/28/2014
PL: 2013.CHK130801708 CADD SHEET 13.dgn

NOTES:

- UNDERGROUND CONDUIT FOR FIBER OPTIC BACKBONE SHALL BE INSTALLED 2' BEHIND BACK OF CURB OR BACK OF SHOULDER UNLESS OTHERWISE INDICATED ON THE PLANS.
- EARTH EXCAVATION RELATED TO THE INSTALLATION OF FOUNDATIONS AND PCC SIDEWALK, 5 INCH SHALL BE CONSIDERED INCIDENTAL TO THESE ITEMS.



RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY. SOD SHALL BE WATERED AS DIRECTED BY ENGINEER AND PER ACT 252.08 & 252.09 IN STP SPECS.

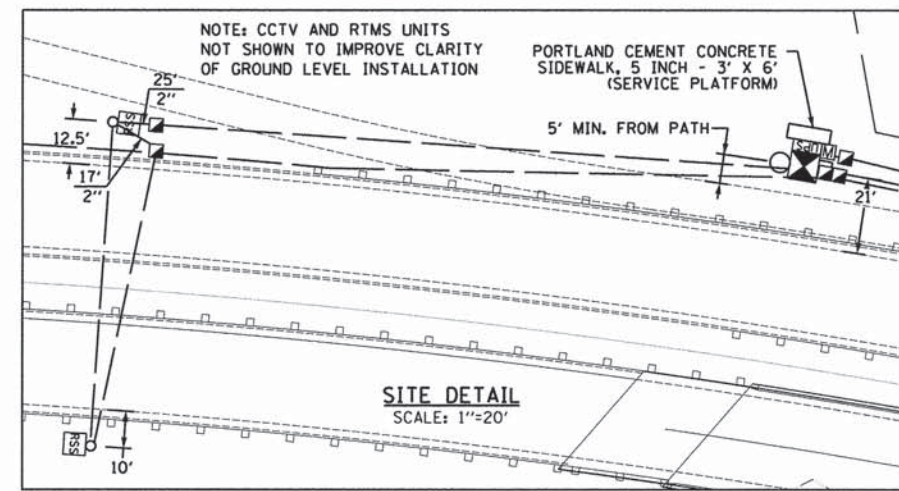
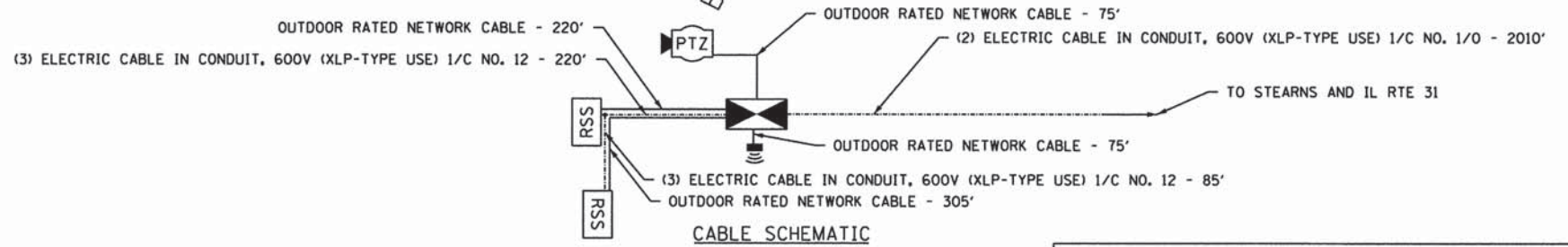
SEE COMMUNICATIONS SCHEMATIC SHEET 34 FOR NETWORK COMMUNICATIONS

SCHEDULE OF QUANTITIES - STEARNS ROAD AT BREWSTER CREEK

ITEM	UNIT	QUANTITY
PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	SO FT	18
SIGN PANEL-TYPE 1	SO FT	7.5
RELOCATE SIGN PANEL-TYPE 1	SO FT	7.5
REMOVE GROUND MOUNTED SIGN SUPPORT	EACH	1
SERVICE INSTALLATION - GROUND MOUNTED	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1478
HANDHOLE	EACH	2
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 12	FOOT	915
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 1/0	FOOT	4020
BREAKAWAY DEVICE, COUPLING WITH STAINLESS STEEL SCREEN	EACH	1
UNINTERRUPTABLE POWER SUPPLY, STANDARD	EACH	1
TRAFFIC SIGNAL POST, 16 FT	EACH	2
CONCRETE FOUNDATION, TYPE A	FOOT	10
CAMERA POLE, 45 FT	EACH	1
POLE MOUNTED EQUIPMENT CABINET, TYPE B	EACH	1
RADAR VEHICLE DETECTION SYSTEM	EACH	1
PAINT EXISTING STREET LIGHT/TRAFFIC EQUIPMENT COMPLETE	EACH	3
RADAR SPEED SIGN	EACH	2
MISCELLANEOUS ELECTRICAL WORK	L SUM	1
LIGHT POLE FOUNDATION, SPECIAL	EACH	1
INTERSECTION VIDEO TRAFFIC MONITORING SYSTEM WITH PTZ CAMERA	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	675
ETHERNET MANAGED SWITCH, TYPE 1	EACH	1

SCHEDULE OF QUANTITIES - INTERCONNECT (13 OF 18)

PAY ITEM	UNIT	QUANTITY
INLET AND PIPE PROTECTION	EACH	5
THREE-CELL FABRIC INNERDUCT	FOOT	1364
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA	FOOT	1364
HANDHOLE	EACH	1
DOUBLE HANDHOLE	EACH	2



INTERCONNECT PLAN LEGEND

	PROPOSED	EXISTING
POLE MOUNTED CABINET, TYPE B		
CONTROLLER CABINET TYPE IV		
MAST ARM ASSEMBLY AND POLE, STEEL		
HANDHOLE		
DOUBLE HANDHOLE		
HEAVY DUTY HANDHOLE		
G.S. CONDUIT IN GROUND (CIG)		
DETECTOR LOOP		
SYSTEM	S	
THREE-CELL FABRIC INNERDUCT	ID	
STAINLESS STEEL JUNCTION BOX		
MANHOLE/HANDHOLE NUMBER		
INTERSECTION VIDEO TRAFFIC MONITORING SYSTEM WITH PTZ CAMERA		
VIDEO DETECTION CAMERA		
RADAR SPEED SIGN		
ELECTRICAL SERVICE		
RADAR VEHICLE DETECTION SYSTEM		

SEE TRAFFIC SIGNAL LEGEND SHEET 28 FOR ADDITIONAL SYMBOLS

JACOBS
525 WEST MONROE
CHICAGO IL, 60661
312-251-3000

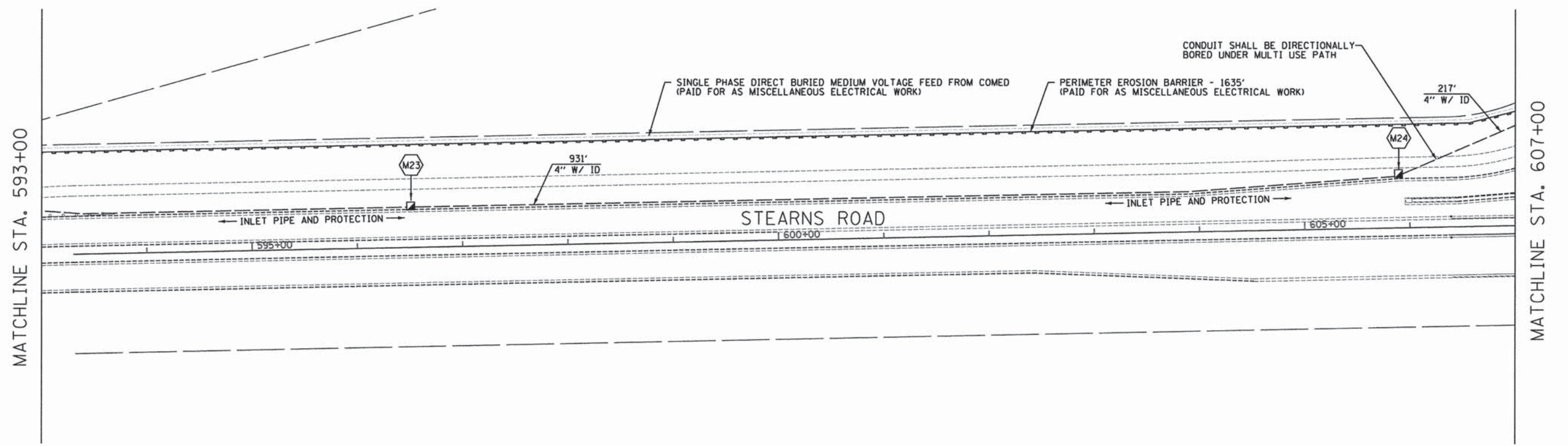
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	DATE - #DATE	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ITS PLANS
STEARNS ROAD (SHEET 13 OF 18)**

F.A.P. RTE. 361	SECTION 11-00214-00-TL	COUNTY KANE	TOTAL SHEETS 47	SHEET NO. 17
SCALE: SHEET NO. OF SHEETS STA. TO STA.			CONTRACT NO. 61A36	
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

5/28/2014
PL: 2013.CDK33808788 CD00.SHEET.14.dgn



NOTES:

- UNDERGROUND CONDUIT FOR FIBER OPTIC BACKBONE SHALL BE INSTALLED 2' BEHIND BACK OF CURB OR BACK OF SHOULDER UNLESS OTHERWISE INDICATED ON THE PLANS.
- CONDUIT SHALL BE INSTALLED AND GROUND RESTORED WITHIN THE SAME WORKING DAY. IF CONDUIT EXCAVATION WILL BE OPEN MORE THAN ONE WORKING DAY CONTRACTOR MUST INSTALL PERIMETER EROSION BARRIER AND ORANGE TEMPORARY FENCING TO PROTECT DITCH.

RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY. SOD SHALL BE WATERED AS DIRECTED BY ENGINEER AND PER ACT 252.08 & 252.09 IN STP SPECS.

SEE COMMUNICATIONS SCHEMATIC SHEET 34 FOR NETWORK COMMUNICATIONS

SCHEDULE OF QUANTITIES - INTERCONNECT (14 OF 18)

ITEM	UNIT	QUANTITY
INLET AND PIPE PROTECTION	EACH	9
PERIMETER EROSION BARRIER	FOOT	1635
UNGERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA	FOOT	1394
HANDHOLE	EACH	2
THREE-CELL FABRIC INNERDUCT	FOOT	1394

INTERCONNECT PLAN LEGEND		PROPOSED	EXISTING
POLE MOUNTED CABINET, TYPE B			
CONTROLLER CABINET TYPE IV			
MAST ARM ASSEMBLY AND POLE, STEEL			
HANDHOLE			
DOUBLE HANDHOLE			
HEAVY DUTY HANDHOLE			
G.S. CONDUIT IN GROUND (CIG)			
DETECTOR LOOP SYSTEM			
THREE-CELL FABRIC INNERDUCT			
STAINLESS STEEL JUNCTION BOX			
MANHOLE/HANDHOLE NUMBER			
INTERSECTION VIDEO TRAFFIC MONITORING SYSTEM WITH PTZ CAMERA			
VIDEO DETECTION CAMERA			
RADAR SPEED SIGN			
ELECTRICAL SERVICE			
RADAR VEHICLE DETECTION SYSTEM			

SEE TRAFFIC SIGNAL LEGEND SHEET 28 FOR ADDITIONAL SYMBOLS

JACOBS
525 WEST MONROE
CHICAGO IL, 60661
312-251-3000

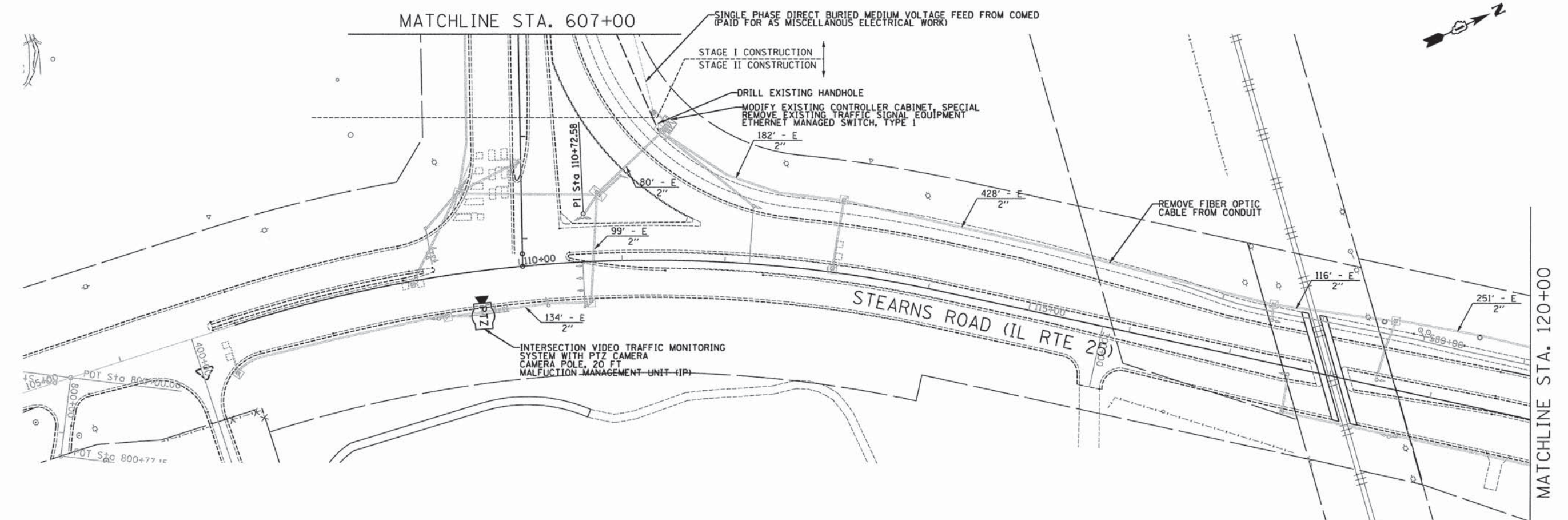
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ITS PLANS
STEARNS ROAD (SHEET 14 OF 18)**
SCALE: SHEET NO. ___ OF ___ SHEETS STA. _____ TO STA. _____

F.A.P. RTE. 361	SECTION 11-00214-00-TL	COUNTY KANE	TOTAL SHEETS 47	SHEET NO. 18
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 61A36	

5/28/2014



THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF OUTSIDE THE RIGHT-OF-WAY AT THE CONTRACTOR'S EXPENSE. THE SALVAGED VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

1017 FOOT FIBER OPTIC CABLE

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF KANE COUNTY, AND SHALL BE DELIVERED BY THE CONTRACTOR TO THE COUNTY'S TRAFFIC SIGNAL MAINTENANCE CONTRACTOR'S MAIN FACILITY.

1 EACH MALFUNCTION MANAGEMENT UNIT

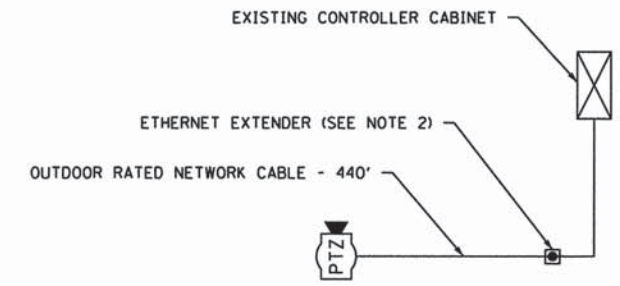
THE COUNTY'S TRAFFIC SIGNAL MAINTENANCE CONTRACTOR IS H&H ELECTRIC CO., LOCATED AT:

2830 COMMERCE STREET
FRANKLIN PARK, IL 60131-2927
TEL (708) 453-2222

ALL REMOVED ITEMS LISTED WILL BE PAID AS REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT.

NOTES:

- UNDERGROUND CONDUIT FOR FIBER OPTIC BACKBONE SHALL BE INSTALLED 2' BEHIND BACK OF CURB OR BACK OF SHOULDER UNLESS OTHERWISE INDICATED ON THE PLANS.
- ETHERNET EXTENDER TO BE PLACED IN AN EXISTING TRAFFIC SIGNAL HANDHOLE NEAR THE MIDPOINT OF THE CCTV AND CONTROLLER CABINET. ETHERNET EXTENDER TO BE PAID FOR UNDER OUTDOOR RATED NETWORK CABLE.



CABLE SCHEMATIC

SEE COMMUNICATIONS SCHEMATIC SHEET 34 FOR NETWORK COMMUNICATIONS

RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY. SOD SHALL BE WATERED AS DIRECTED BY ENGINEER AND PER ACT 252.08 & 252.09 IN STP SPECS.

EXISTING CONDITIONS SHOWN REPRESENT THE PROPOSED ROADWAY CONFIGURATION BEING CONSTRUCTED UNDER IDOT CONTRACT NO. 63598. CONTRACTOR MUST VERIFY ACTUAL CONDITIONS PRIOR TO COMMENCING WORK IN THIS SECTION OF STEARNS ROAD.

SCHEDULE OF QUANTITIES - INTERCONNECT (15 OF 18)

ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA	FOOT	103
REMOVE FIBER OPTIC CABLE FROM CONDUIT	FOOT	1017
TEMPORARY TRAFFIC SIGNAL INTERCONNECT	EACH	1

SCHEDULE OF QUANTITIES - STEARNS ROAD AND IL RTE 25

ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
DRILL EXISTING HANDHOLE	EACH	1
MODIFY EXISTING CONTROLLER CABINET, SPECIAL	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
INTERSECTION VIDEO TRAFFIC MONITORING SYSTEM WITH PTZ CAMERA	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	440
MALFUNCTION MANAGEMENT UNIT	EACH	1
ETHERNET MANAGED SWITCH, TYPE 1	EACH	1
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM, LEVEL 2	EACH	1
CAMERA POLE, 20 FT	EACH	1

INTERCONNECT PLAN LEGEND	
PROPOSED	EXISTING

SEE TRAFFIC SIGNAL LEGEND SHEET 28 FOR ADDITIONAL SYMBOLS

PL 2013/C90/0988/708 CADD SHEET 15.dgn

JACOBS
525 WEST MONROE
CHICAGO IL, 60661
312-251-3000

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PLOT DATE = 5/28/2014	CHECKED - KG	REVISED -
	DATE - #DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ITS PLANS	
STEARNS ROAD AND IL RTE 25 (SHEET 15 OF 18)	
SCALE:	SHEET NO. ___ OF ___ SHEETS STA. _____ TO STA. _____

F.A.P. RTE. 361	SECTION 11-00214-00-TL	COUNTY KANE	TOTAL SHEETS 47	SHEET NO. 19
CONTRACT NO. 61A36			FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT	

5/28/2014
PA_2013_CK13982786_CADD_SHEET_16.dgn

EXISTING CONDITIONS SHOWN REPRESENT THE PROPOSED ROADWAY CONFIGURATION BEING CONSTRUCTED UNDER IDOT CONTRACT NO. 63598. CONTRACTOR MUST VERIFY ACTUAL CONDITIONS PRIOR TO COMMENCING WORK IN THIS SECTION OF STEARNS ROAD.

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF OUTSIDE THE RIGHT-OF-WAY AT THE CONTRACTOR'S EXPENSE. THE SALVAGED VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

SEE COMMUNICATIONS SCHEMATIC SHEET 34 FOR NETWORK COMMUNICATIONS

1945 FOOT FIBER OPTIC CABLE

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF KANE COUNTY, AND SHALL BE DELIVERED BY THE CONTRACTOR TO THE COUNTY'S TRAFFIC SIGNAL MAINTENANCE CONTRACTOR'S MAIN FACILITY.

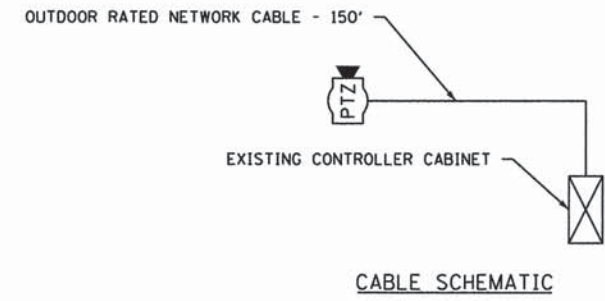
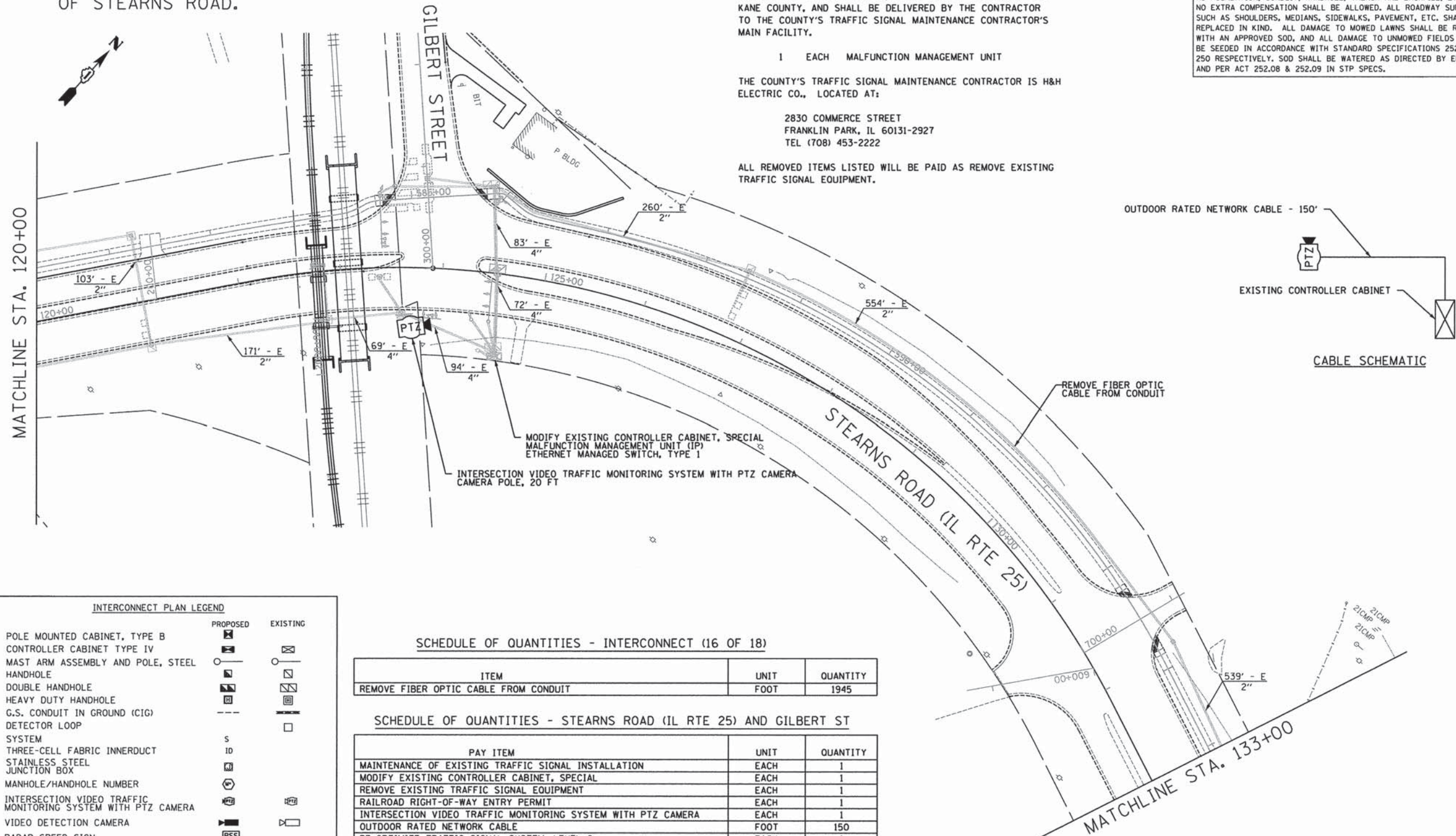
1 EACH MALFUNCTION MANAGEMENT UNIT

THE COUNTY'S TRAFFIC SIGNAL MAINTENANCE CONTRACTOR IS H&H ELECTRIC CO., LOCATED AT:

2830 COMMERCE STREET
FRANKLIN PARK, IL 60131-2927
TEL (708) 453-2222

ALL REMOVED ITEMS LISTED WILL BE PAID AS REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT.

RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY. SOD SHALL BE WATERED AS DIRECTED BY ENGINEER AND PER ACT 252.08 & 252.09 IN STP SPECS.



INTERCONNECT PLAN LEGEND

	PROPOSED	EXISTING
POLE MOUNTED CABINET, TYPE B		
CONTROLLER CABINET TYPE IV		
MAST ARM ASSEMBLY AND POLE, STEEL HANDHOLE		
DOUBLE HANDHOLE		
HEAVY DUTY HANDHOLE		
G.S. CONDUIT IN GROUND (CIG)		
DETECTOR LOOP SYSTEM		
THREE-CELL FABRIC INNERDUCT		
STAINLESS STEEL JUNCTION BOX		
MANHOLE/HANDHOLE NUMBER		
INTERSECTION VIDEO TRAFFIC MONITORING SYSTEM WITH PTZ CAMERA		
VIDEO DETECTION CAMERA		
RADAR SPEED SIGN		
ELECTRICAL SERVICE		
RADAR VEHICLE DETECTION SYSTEM		

SEE TRAFFIC SIGNAL LEGEND SHEET 28 FOR ADDITIONAL SYMBOLS

SCHEDULE OF QUANTITIES - INTERCONNECT (16 OF 18)

ITEM	UNIT	QUANTITY
REMOVE FIBER OPTIC CABLE FROM CONDUIT	FOOT	1945

SCHEDULE OF QUANTITIES - STEARNS ROAD (IL RTE 25) AND GILBERT ST

PAY ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
MODIFY EXISTING CONTROLLER CABINET, SPECIAL	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
RAILROAD RIGHT-OF-WAY ENTRY PERMIT	EACH	1
INTERSECTION VIDEO TRAFFIC MONITORING SYSTEM WITH PTZ CAMERA	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	150
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM, LEVEL 2	EACH	1
MALFUNCTION MANAGEMENT UNIT (IP)	EACH	1
ETHERNET MANAGED SWITCH, TYPE 1	EACH	1
CAMERA POLE, 20 FT	EACH	1

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525 WEST MONROE
CHICAGO IL, 60661
312-251-3000

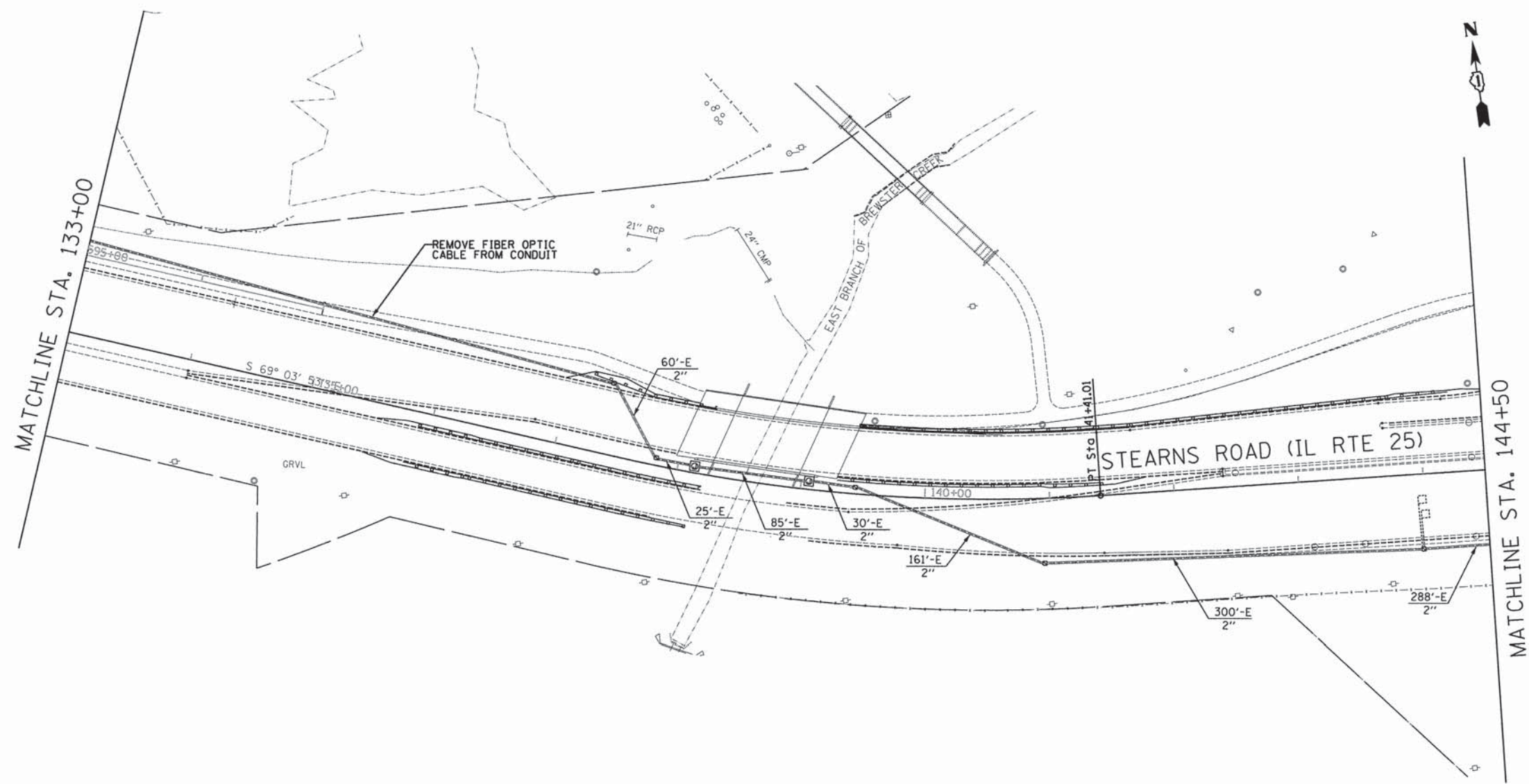
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ITS PLANS
STEARNS ROAD AND GILBERT STREET (SHEET 16 OF 18)**

F.A.P. RTE. 361	SECTION 11-00214-00-TL	COUNTY KANE	TOTAL SHEETS 47	SHEET NO. 20
SCALE: SHEET NO. 16 OF 18 SHEETS STA. _____ TO STA. _____			CONTRACT NO. 61A36	
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

5/20/2014
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EXISTING CONDITIONS SHOWN REPRESENT THE PROPOSED ROADWAY CONFIGURATION BEING CONSTRUCTED UNDER IDOT CONTRACT NO. 63598. CONTRACTOR MUST VERIFY ACTUAL CONDITIONS PRIOR TO COMMENCING WORK IN THIS SECTION OF STEARNS ROAD.

SCHEDULE OF QUANTITIES - INTERCONNECT (16 OF 18)

ITEM	UNIT	QUANTITY
REMOVE FIBER OPTIC CABLE FROM CONDUIT	FOOT	1945
TEMPORARY TRAFFIC SIGNAL INTERCONNECT	EACH	1

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF OUTSIDE THE RIGHT-OF-WAY AT THE CONTRACTOR'S EXPENSE. THE SALVAGED VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

1945 FOOT FIBER OPTIC CABLE

SEE COMMUNICATIONS SCHEMATIC SHEET 34 FOR NETWORK COMMUNICATIONS

RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY. SOD SHALL BE WATERED AS DIRECTED BY ENGINEER AND PER ACT 252.08 & 252.09 IN STP SPECS.

INTERCONNECT PLAN LEGEND	
PROPOSED	EXISTING
POLE MOUNTED CABINET, TYPE B	
CONTROLLER CABINET TYPE IV	
MAST ARM ASSEMBLY AND POLE, STEEL	
HANDHOLE	
DOUBLE HANDHOLE	
HEAVY DUTY HANDHOLE	
G.S. CONDUIT IN GROUND (CIG)	
DETECTOR LOOP	
SYSTEM	
THREE-CELL FABRIC INNERDUCT	
STAINLESS STEEL	
JUNCTION BOX	
MANHOLE/HANDHOLE NUMBER	
INTERSECTION VIDEO TRAFFIC MONITORING SYSTEM WITH PTZ CAMERA	
VIDEO DETECTION CAMERA	
RADAR SPEED SIGN	
ELECTRICAL SERVICE	
RADAR VEHICLE DETECTION SYSTEM	

SEE TRAFFIC SIGNAL LEGEND SHEET 28 FOR ADDITIONAL SYMBOLS

JACOBS
525 WEST MONROE
CHICAGO IL, 60661
312-251-3000

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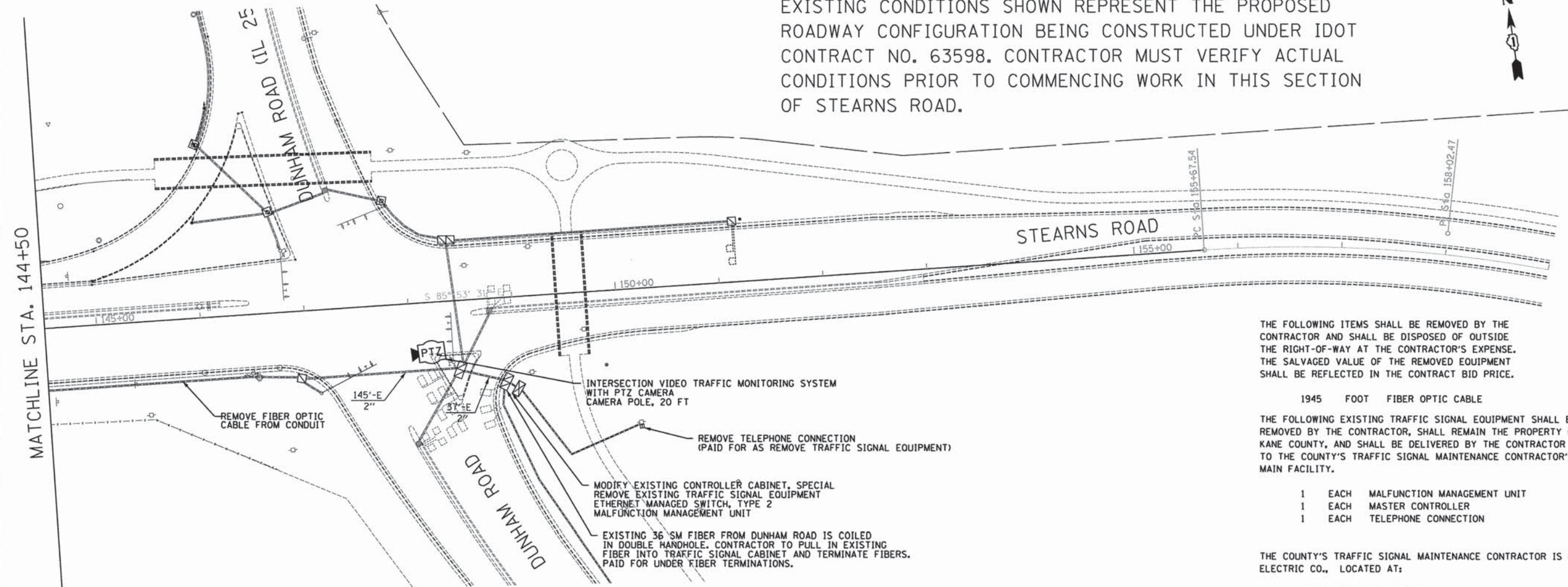
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ITS PLANS
STEARNS ROAD AND DUNHAM ROAD (SHEET 17 OF 18)
SCALE: SHEET NO. 17 OF 18 SHEETS STA. TO STA.

F.A.P. RTE. 361	SECTION 11-00214-00-TL	COUNTY KANE	TOTAL SHEETS 47	SHEET NO. 21
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 61A36	

5/20/2014
PL: 2013/CX/13/08/700_CADD/SHEET 11B.dgn

EXISTING CONDITIONS SHOWN REPRESENT THE PROPOSED ROADWAY CONFIGURATION BEING CONSTRUCTED UNDER IDOT CONTRACT NO. 63598. CONTRACTOR MUST VERIFY ACTUAL CONDITIONS PRIOR TO COMMENCING WORK IN THIS SECTION OF STEARNS ROAD.



THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF OUTSIDE THE RIGHT-OF-WAY AT THE CONTRACTOR'S EXPENSE. THE SALVAGED VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

1945 FOOT FIBER OPTIC CABLE

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF KANE COUNTY, AND SHALL BE DELIVERED BY THE CONTRACTOR TO THE COUNTY'S TRAFFIC SIGNAL MAINTENANCE CONTRACTOR'S MAIN FACILITY.

- 1 EACH MALFUNCTION MANAGEMENT UNIT
- 1 EACH MASTER CONTROLLER
- 1 EACH TELEPHONE CONNECTION

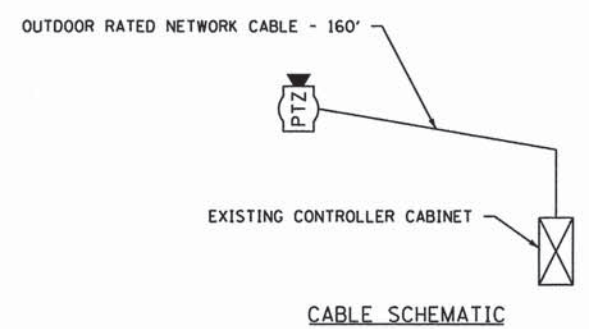
THE COUNTY'S TRAFFIC SIGNAL MAINTENANCE CONTRACTOR IS H&H ELECTRIC CO., LOCATED AT:

2830 COMMERCE STREET
FRANKLIN PARK, IL 60131-2927
TEL (708) 453-2222

ALL REMOVED ITEMS LISTED WILL BE PAID AS REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT.

SCHEDULE OF QUANTITIES - INTERCONNECT (16 OF 18)

ITEM	UNIT	QUANTITY
REMOVE FIBER OPTIC CABLE FROM CONDUIT	FOOT	1945



SCHEDULE OF QUANTITIES - STEARNS ROAD (IL RTE 25) AND DUNHAM ROAD

PAY ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
MODIFY EXISTING CONTROLLER CABINET, SPECIAL	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
INTERSECTION VIDEO TRAFFIC MONITORING WITH PTZ CAMERA	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	160
ETHERNET MANAGED SWITCH, TYPE 2	EACH	1
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM, LEVEL 2	EACH	1
MALFUNCTION MANAGEMENT UNIT	EACH	1
CAMERA POLE, 20 FT	EACH	1

INTERCONNECT PLAN LEGEND

	PROPOSED	EXISTING
POLE MOUNTED CABINET, TYPE B		
CONTROLLER CABINET TYPE IV		
MAST ARM ASSEMBLY AND POLE, STEEL		
HANDHOLE		
DOUBLE HANDHOLE		
HEAVY DUTY HANDHOLE		
G.S. CONDUIT IN GROUND (CIG)		
DETECTOR LOOP		
SYSTEM	S	□
THREE-CELL FABRIC INNERDUCT	ID	
STAINLESS STEEL JUNCTION BOX		
MANHOLE/HANDHOLE NUMBER		
INTERSECTION VIDEO TRAFFIC MONITORING SYSTEM WITH PTZ CAMERA		
VIDEO DETECTION CAMERA		
RADAR SPEED SIGN		
ELECTRICAL SERVICE		
RADAR VEHICLE DETECTION SYSTEM		

SEE TRAFFIC SIGNAL LEGEND SHEET 28 FOR ADDITIONAL SYMBOLS

NOTES:
1. UNDERGROUND CONDUIT FOR FIBER OPTIC BACKBONE SHALL BE INSTALLED 2' BEHIND BACK OF CURB OR BACK OF SHOULDER UNLESS OTHERWISE INDICATED ON THE PLANS.

SEE COMMUNICATIONS SCHEMATIC SHEET 34 FOR NETWORK COMMUNICATIONS

RESTORATION OF WORK AREA: RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO MOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY. SOD SHALL BE WATERED AS DIRECTED BY ENGINEER AND PER ACT 252.08 & 252.09 IN STP SPECS.

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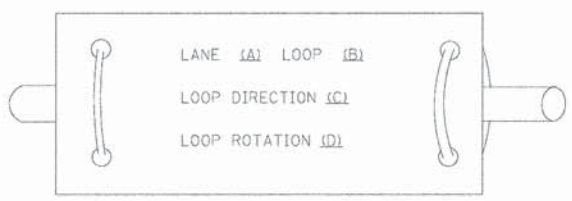
**ITS PLANS
STEARNS ROAD AND DUNHAM ROAD (SHEET 18 OF 18)**

F.A.P. RTE. 361	SECTION 11-00214-00-TL	COUNTY KANE	TOTAL SHEETS 47	SHEET NO. 22
SCALE: SHEET NO. ___ OF ___ SHEETS STA. _____ TO STA. _____			CONTRACT NO. 61A36	
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

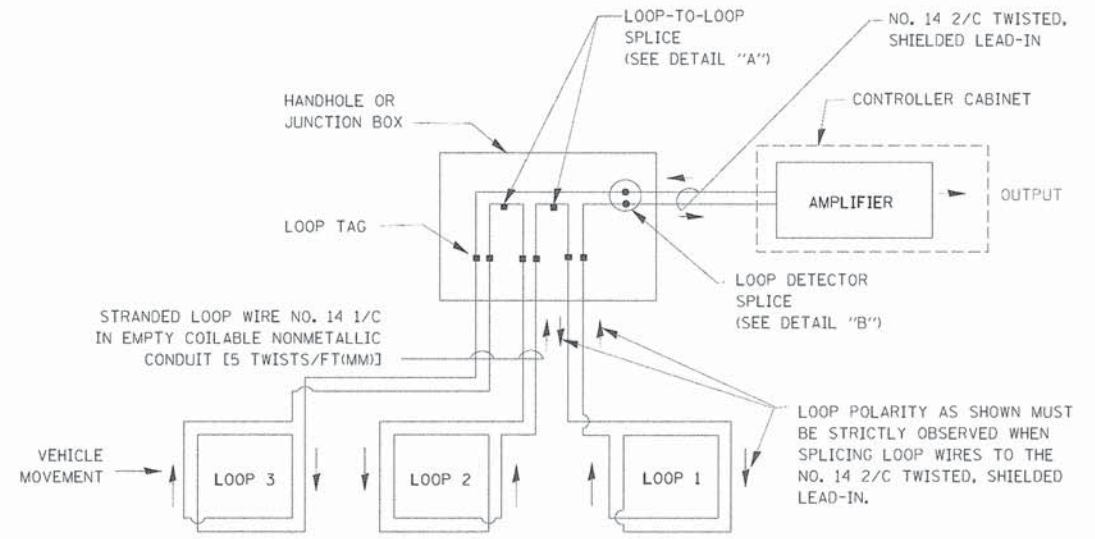
LOOP DETECTOR NOTES

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 DIVESHOLES 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

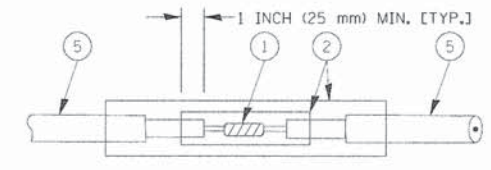


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

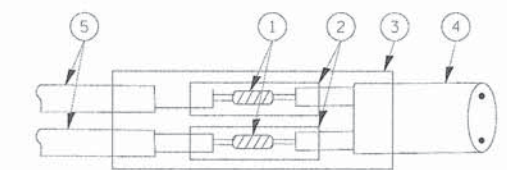


DETECTOR LOOP WIRING SCHEMATIC

- 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.

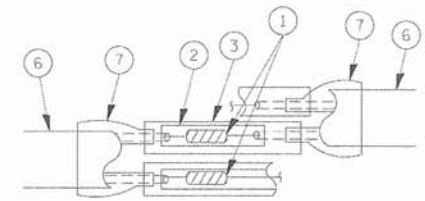


DETAIL "A" LOOP-TO-LOOP SPLICE

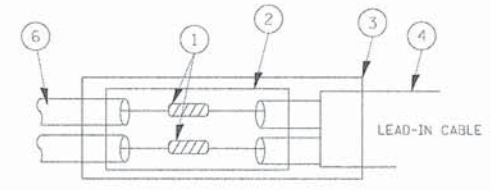


DETAIL "B" LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A" LOOP-TO-LOOP SPLICE



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 LENGTH 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

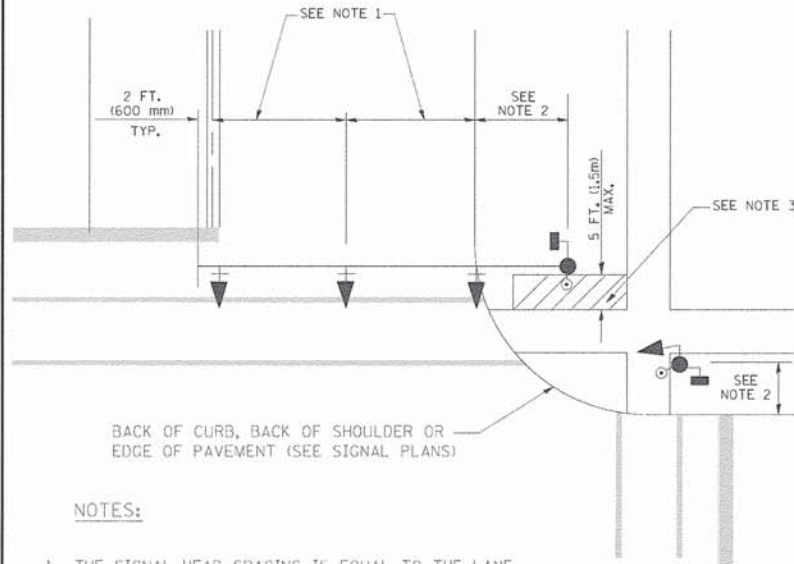
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F.A.P. RTE. 361	SECTION 11-00214-00-TL	COUNTY KANE	TOTAL SHEETS 47	SHEET NO. 23
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 61A36	

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TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

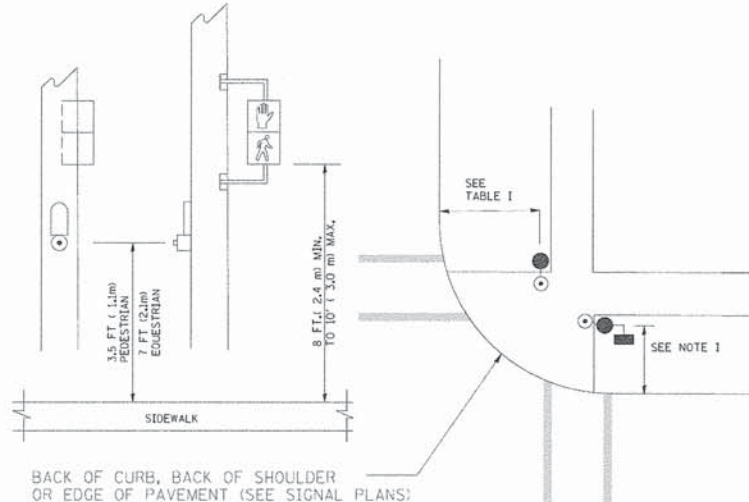
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



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."

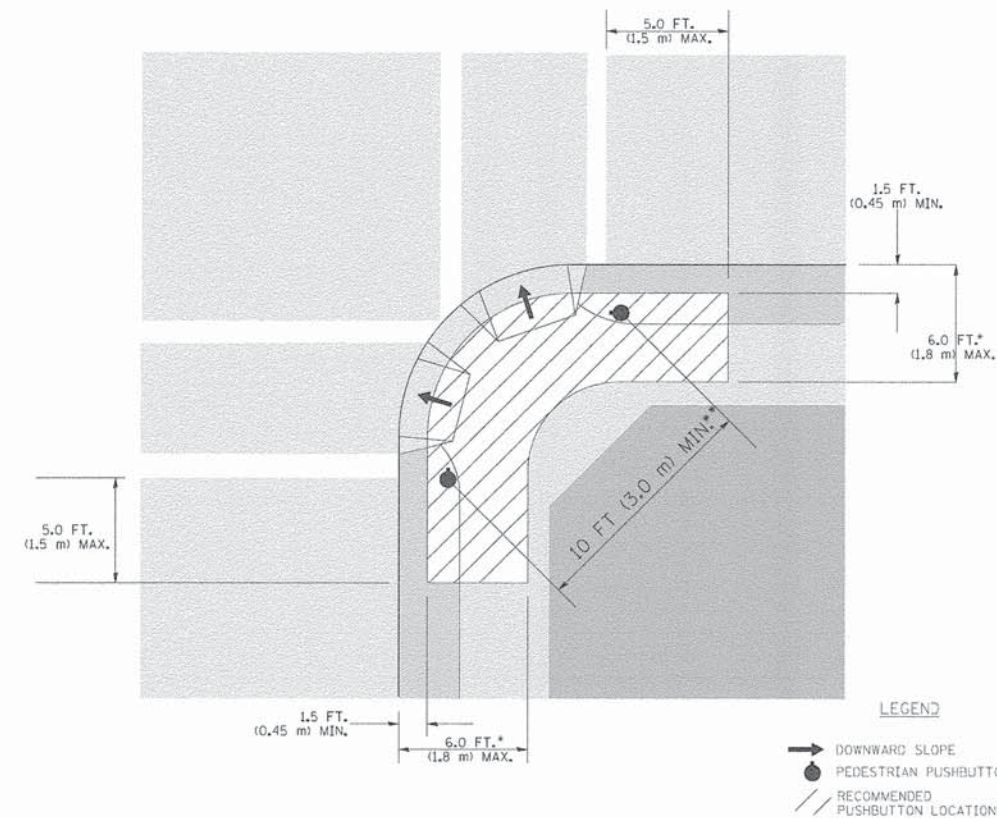
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



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



LEGEND

- DOWNWARD SLOPE
- PEDESTRIAN PUSHBUTTON
- 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) SEPERATION 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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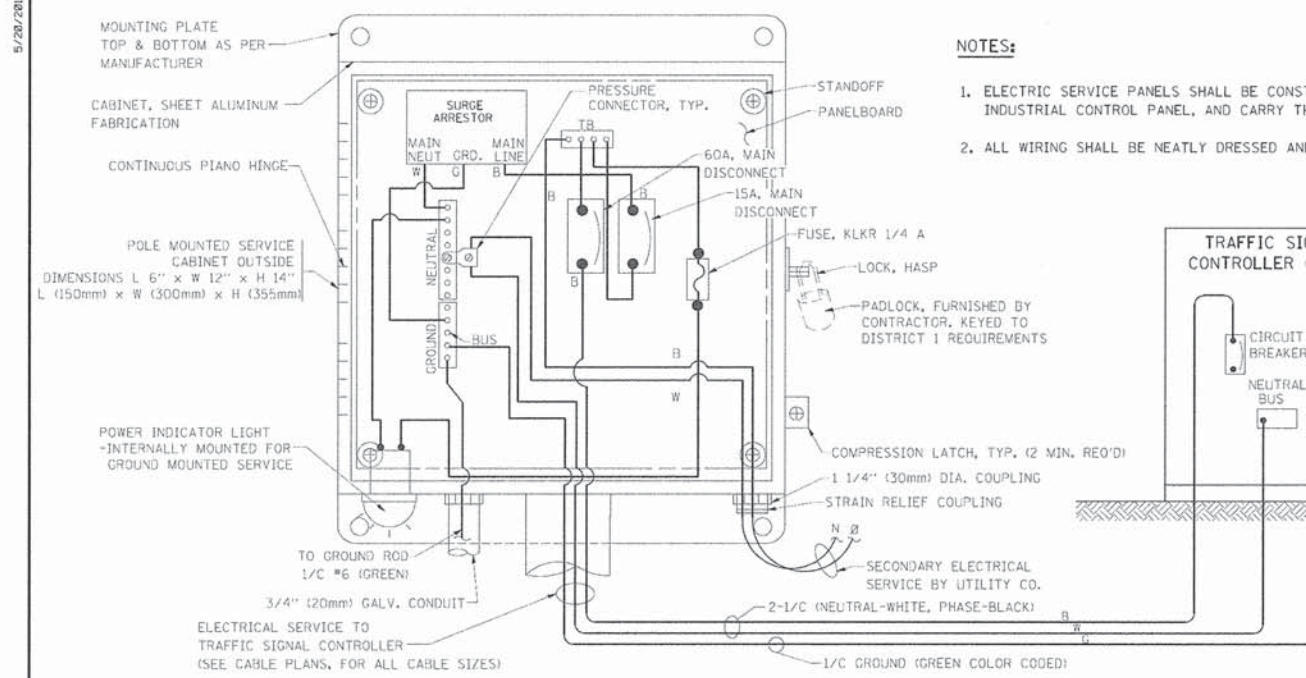
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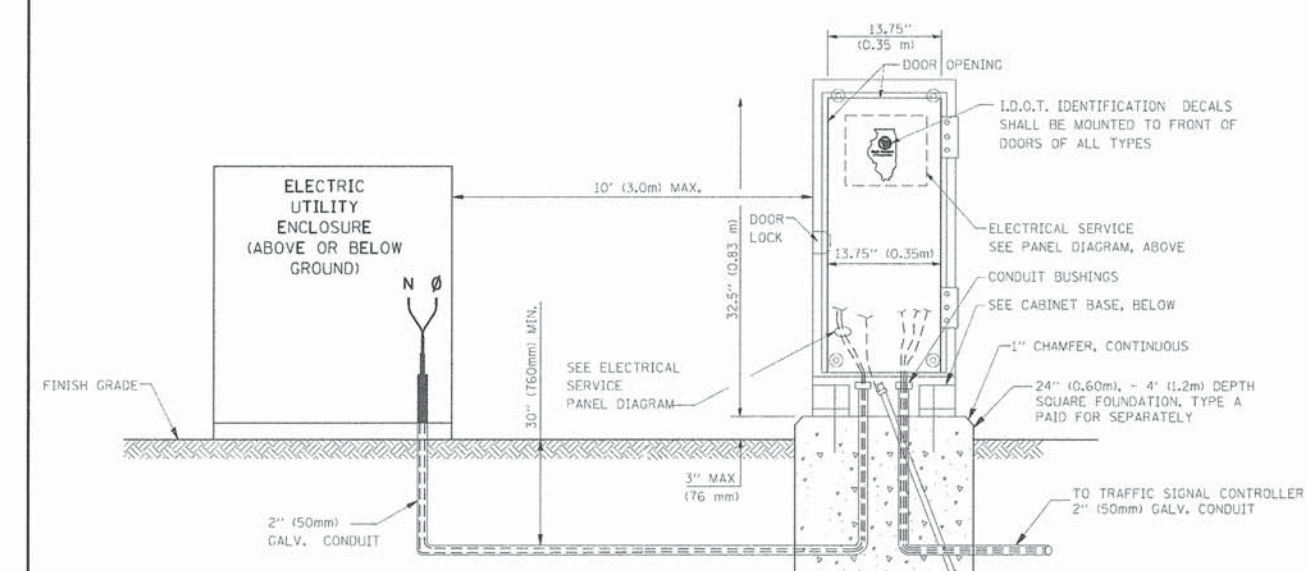
**DISTRICT 1
 STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

F.A.P. RTE. 361	SECTION 11-00214-00-TL	COUNTY KANE	TOTAL SHEETS 47	SHEET NO. 24
SCALE: SHEET NO. ___ OF ___ SHEETS STA. _____ TO STA. _____			CONTRACT NO. 61A36	
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

5/20/2014

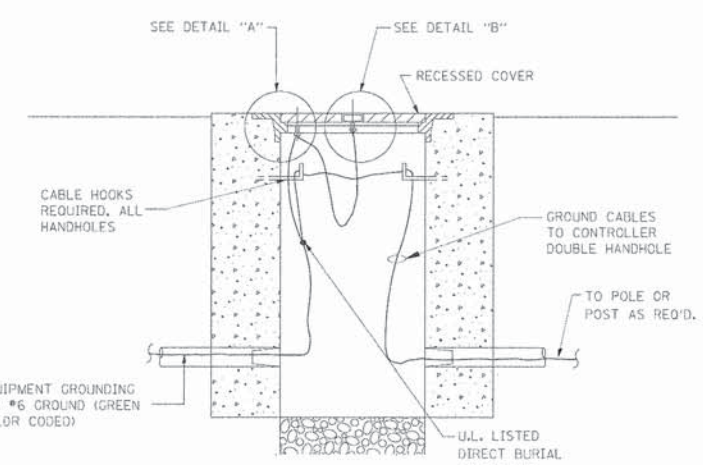
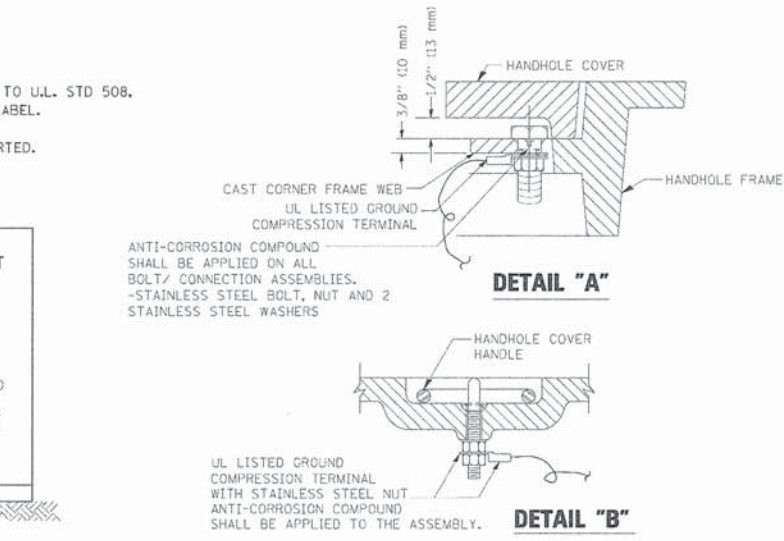
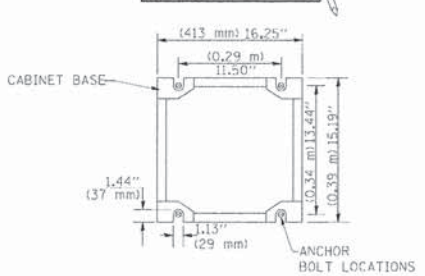


ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
 (NOT TO SCALE)

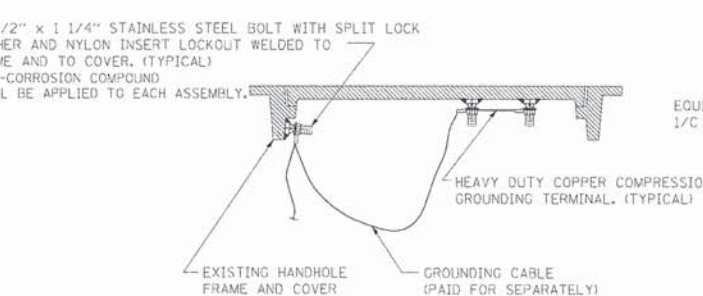


SERVICE INSTALLATION GROUND MOUNT
 (NOT TO SCALE)

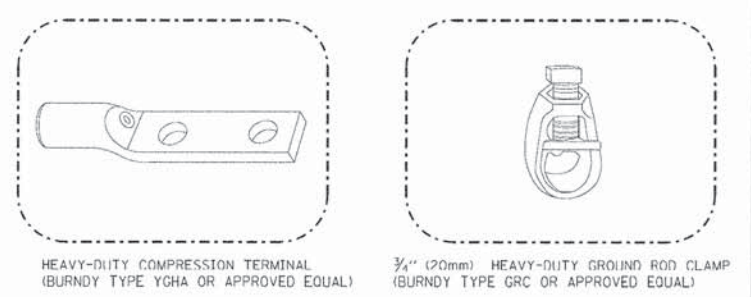
CABINET - BASE BOLT PATTERN
 (NOT TO SCALE)



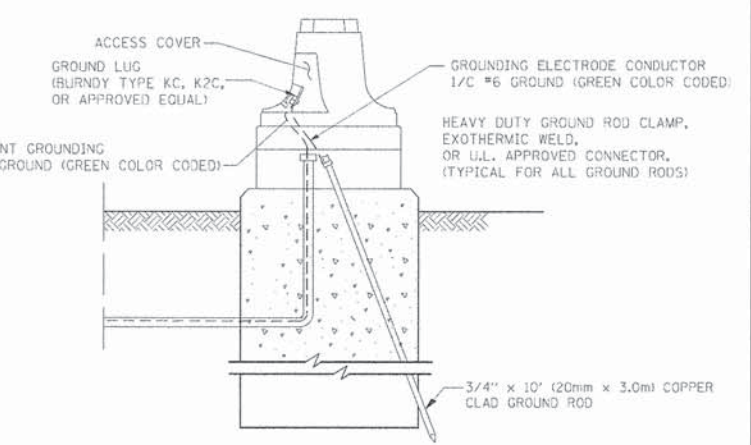
HANDHOLE COVER & FRAME - GROUNDING DETAIL
 (NOT TO SCALE)



EXISTING HANDHOLE COVER & FRAME - GROUNDING DETAIL
 (NOT TO SCALE)



- NOTES:**
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
 - GROUND CABLE SHALL BE LOOPEO 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.



MAST ARM POLE / POST-GROUNDING DETAIL
 (NOT TO SCALE)

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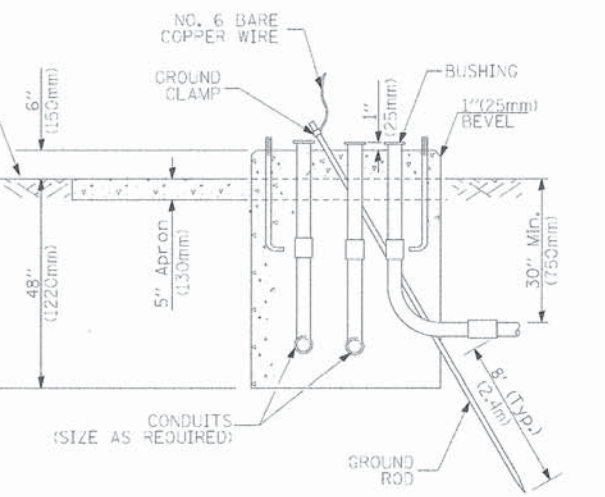
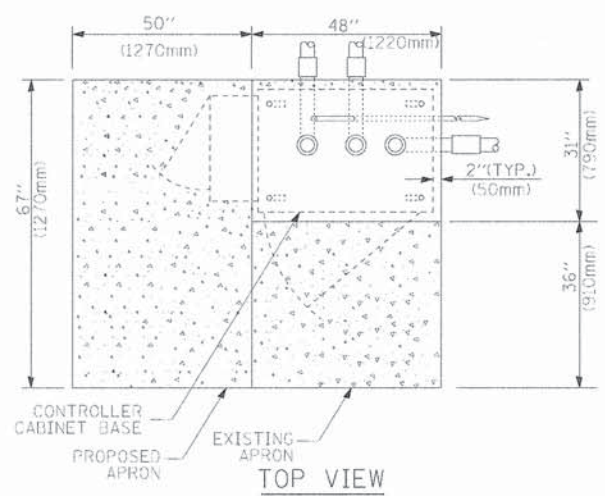
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

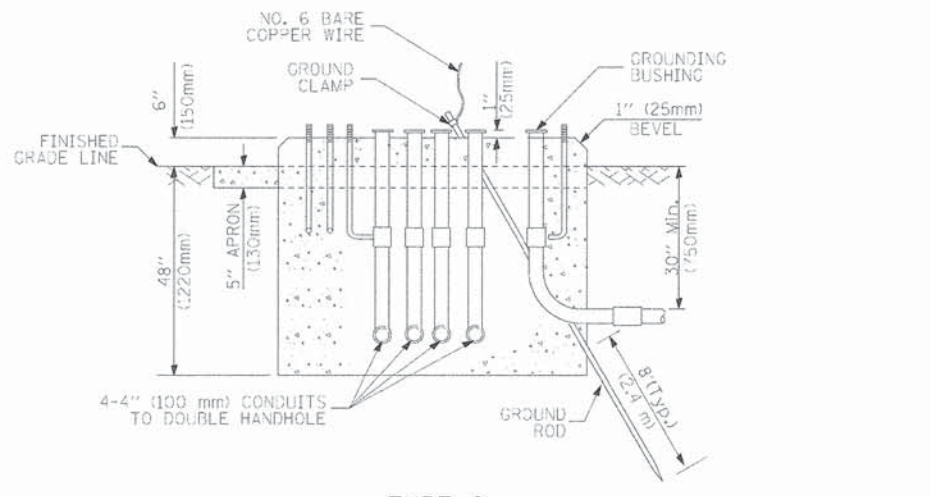
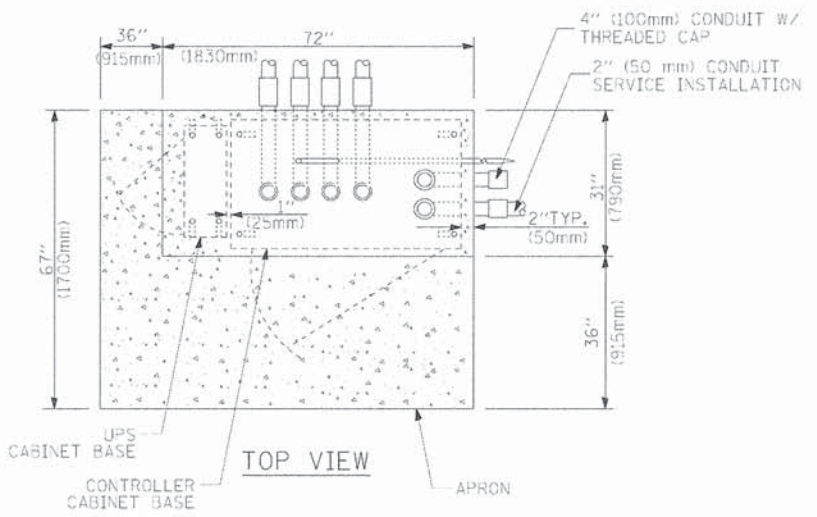
SCALE: SHEET NO. ___ OF ___ SHEETS STA. _____ TO STA. _____

F.A.P. RTE. 361	SECTION 11-00214-00-TL	COUNTY KANE	TOTAL SHEETS 47	SHEET NO. 25
CONTRACT NO. 61A36				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

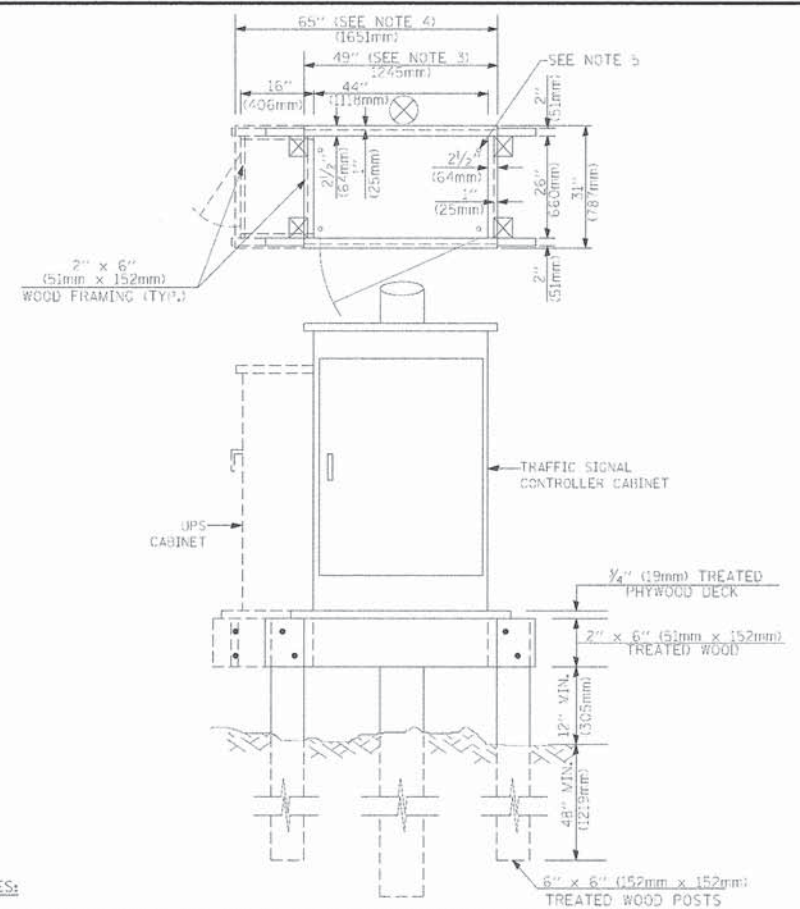
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**TYPE D
 FOR GROUND MOUNTED
 CONTROLLER CABINET
 AND UPS BATTERY CABINET**



**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	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)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 55' (16.8 m) and less than 65' (19.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 65' (19.8 m) and less than 75' (22.9 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal 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 - *DATE	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**DISTRICT 1
 STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

F.A.P. RTE. 361	SECTION 11-00214-00-TL	COUNTY KANE	TOTAL SHEETS 47	SHEET NO. 27
SCALE: SHEET NO. ___ OF ___ SHEETS STA. _____ TO STA. _____			CONTRACT NO. 61A36	
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

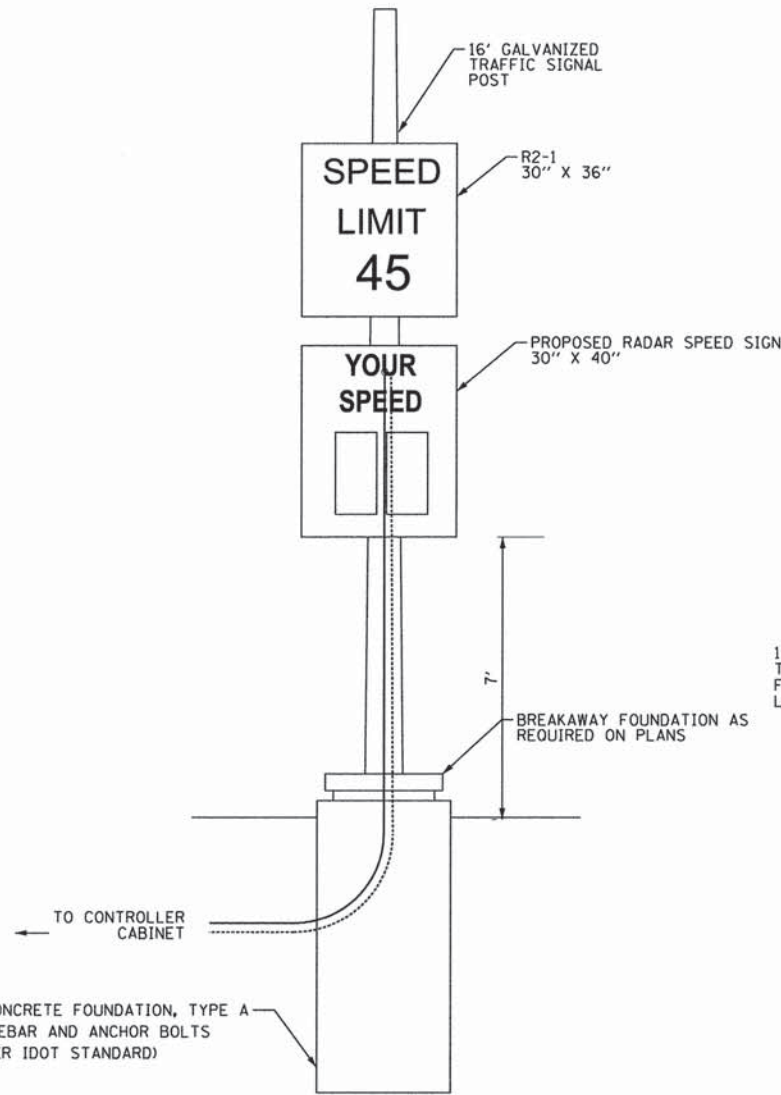
TRAFFIC SIGNAL LEGEND

ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED																	
CONTROLLER CABINET				EMERGENCY VEHICLE LIGHT DETECTOR				ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE																				
RAILROAD CONTROL CABINET				CONFIRMATION BEACON				COAXIAL CABLE																				
COMMUNICATIONS CABINET				HANDHOLE				VENDOR CABLE FOR CAMERA																				
MASTER CONTROLLER				HEAVY DUTY HANDHOLE				COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED																				
MASTER MASTER CONTROLLER				DOUBLE HANDHOLE				FIBER OPTIC CABLE NO. 62.5/125, MM12F																				
UNINTERRUPTIBLE POWER SUPPLY				JUNCTION BOX				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F																				
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT				GALVANIZED STEEL CONDUIT IN TRENCH (T) OR PUSHED (P)				FIBER OPTIC CABLE NO. 62.5/125, (NUMBER OF FIBERS & TYPE TO BE NOTED ON PLANS)																				
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT				TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE				GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE																				
STEEL MAST ARM ASSEMBLY AND POLE				COMMON TRENCH			CT	CONTROLLER CABINET AND FOUNDATION TO BE REMOVED																				
ALUMINUM MAST ARM ASSEMBLY AND POLE				COILABLE NONMETALLIC CONDUIT (EMPTY)			CNC	STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED																				
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE				SYSTEM ITEM		S	S	ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED																				
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA				INTERSECTION ITEM		I	IP	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED																				
SIGNAL POST				REMOVE ITEM	R			SIGNAL POST AND FOUNDATION TO BE REMOVED																				
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM				RELOCATE ITEM	RL			INTERSECTION & SAMPLING (SYSTEM) DETECTOR																				
GUY WIRE				ABANDON ITEM	A			SAMPLING (SYSTEM) DETECTOR																				
SIGNAL HEAD				12" (300mm) TRAFFIC SIGNAL SECTION				EXISTING INTERSECTION LOOP DETECTOR																				
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)				12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE				PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR																				
SIGNAL HEAD WITH BACKPLATE				SIGNAL FACE				EXISTING PREFORMED INTERSECTION LOOP DETECTOR																				
SIGNAL HEAD OPTICALLY PROGRAMMED				SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD				PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR																				
FLASHER INSTALLATION (S DENOTES SOLAR POWER)				12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL				PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR																				
PEDESTRIAN SIGNAL HEAD				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED				PREFORMED SAMPLING (SYSTEM) DETECTOR																				
PEDESTRIAN PUSHBUTTON DETECTOR				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID				<h2>RAILROAD SYMBOLS</h2> <table border="1"> <thead> <tr> <th></th> <th>EXISTING</th> <th>PROPOSED</th> </tr> </thead> <tbody> <tr> <td>RAILROAD CONTROL CABINET</td> <td></td> <td></td> </tr> <tr> <td>RAILROAD CANTILEVER MAST ARM</td> <td></td> <td></td> </tr> <tr> <td>FLASHING SIGNAL</td> <td></td> <td></td> </tr> <tr> <td>CROSSING GATE</td> <td></td> <td></td> </tr> <tr> <td>CROSSBUCK</td> <td></td> <td></td> </tr> </tbody> </table>				EXISTING	PROPOSED	RAILROAD CONTROL CABINET			RAILROAD CANTILEVER MAST ARM			FLASHING SIGNAL			CROSSING GATE			CROSSBUCK		
	EXISTING	PROPOSED																										
RAILROAD CONTROL CABINET																												
RAILROAD CANTILEVER MAST ARM																												
FLASHING SIGNAL																												
CROSSING GATE																												
CROSSBUCK																												
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR				PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER																								
ILLUMINATED SIGN "NO LEFT TURN"				RADIO INTERCONNECT																								
ILLUMINATED SIGN "NO RIGHT TURN"				RADIO REPEATER																								
DETECTOR LOOP, TYPE I				DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED																								
PREFORMED DETECTOR LOOP				GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)																								
MICROWAVE VEHICLE SENSOR																												
VIDEO DETECTION CAMERA																												
VIDEO DETECTION ZONE																												
PAN, TILT, ZOOM CAMERA																												
WIRELESS DETECTOR SENSOR																												
WIRELESS ACCESS POINT																												

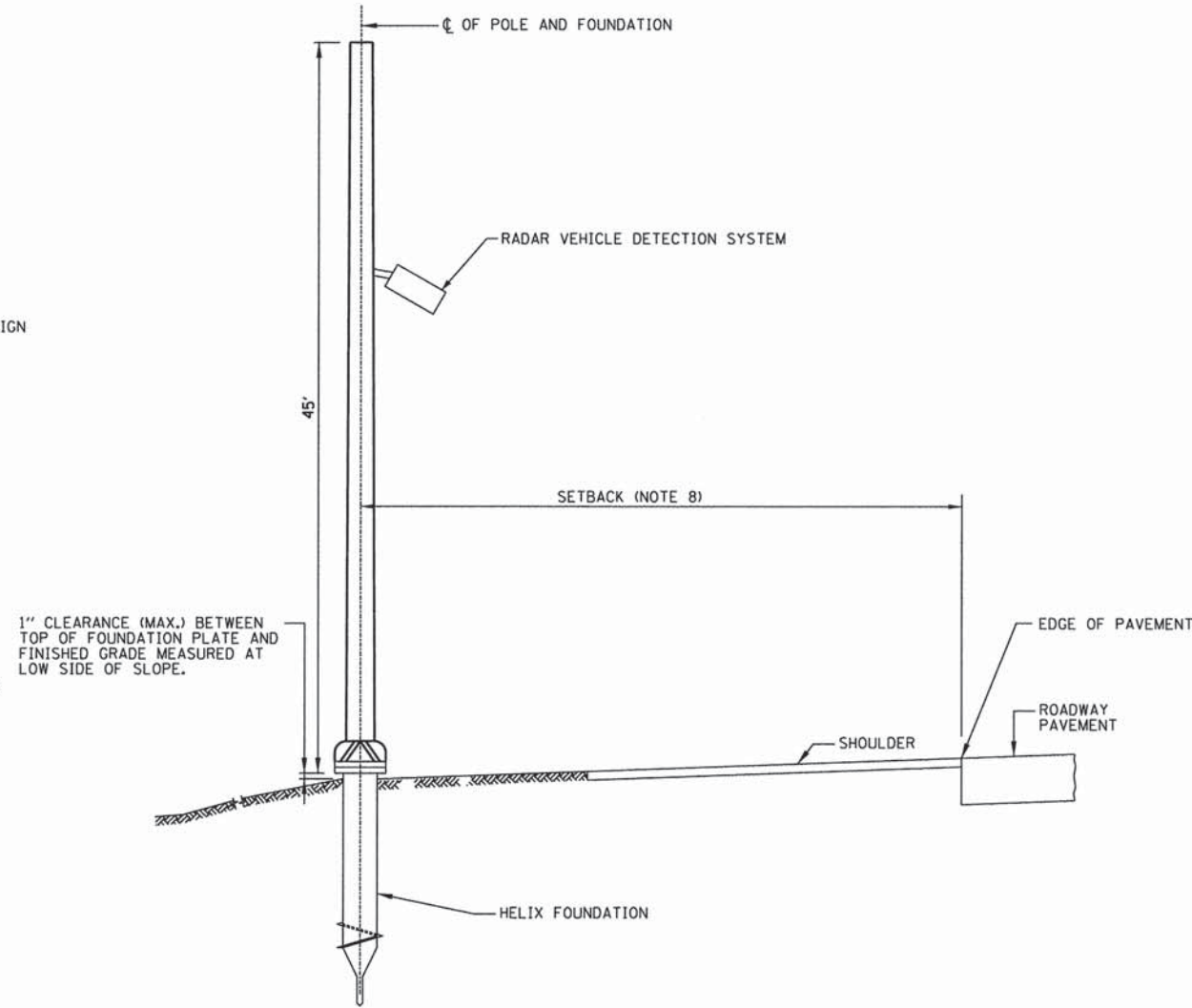
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PLOT SCALE =	DRAWN - KB, DL	REVISED -
PLOT DATE = 5/28/2014	CHECKED - KG	REVISED -
	DATE - *DATE	REVISED -

5/20/2014

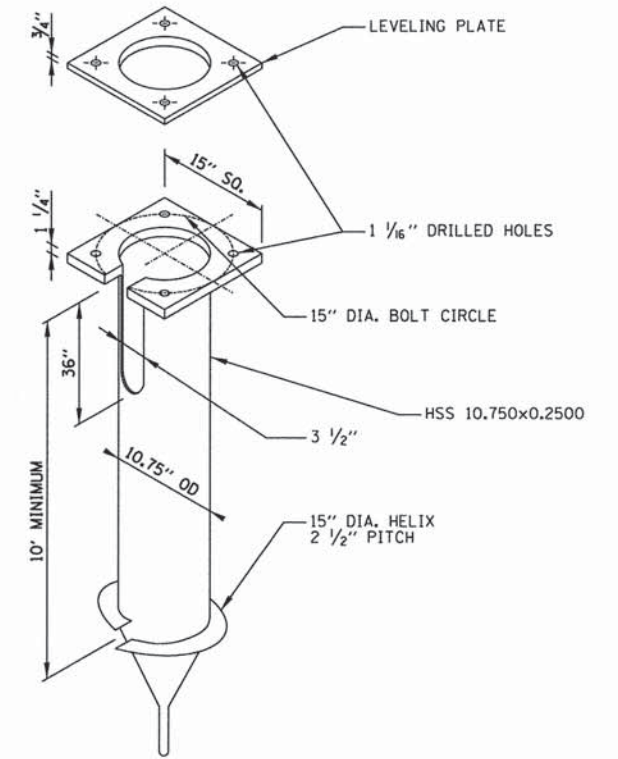
- NOTES:
1. CONTRACTOR SHALL MODIFY THE CONFIGURATION BASED ON THE ACTUAL EQUIPMENT SUPPLIED. SUPPLIED EQUIPMENT SHALL BE APPROVED BY THE ENGINEER.
 2. ALL EQUIPMENT SHALL BE INSTALLED PER IAW NFPA-70-2008, CHAPTER 8, AS APPLICABLE.
 3. ALL EQUIPMENT SHALL BE BONDED TO THE CABINET GROUND BUS.
 4. ALL EQUIPMENT SHALL BE HARDENED AND OPERATE OVER THE TEMPERATURE RANGE OF -35 TO +140 DEGREES FAHRENHEIT.
 5. INSTALL STEERING DIODES TO DIRECT BATTERY CHARGE AND DISCHARGE.
 6. CADWELD NO. 6 COPPER GROUND CABLE TO GROUND ROD.
 7. THE HELIX FOUNDATION SHALL BE INSTALLED WITH ITS AXIS PLUMB.
 8. POLE MOUNTED CAMERA ASSEMBLIES MUST BE LOCATED OUTSIDE THE CLEAR ZONE. REFER TO PLAN SHEET FOR SETBACK DISTANCE.
 9. EXISTING SPEED LIMIT SIGNS MAY BE RELOCATED AT SHOWN ON PLANS.



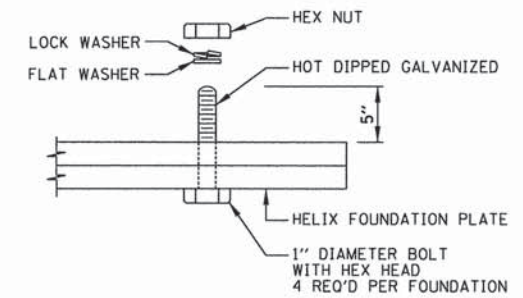
RADAR SPEED SIGN DETAIL
NOT TO SCALE



CCTV POLE DETAIL
NOT TO SCALE



HELIX FOUNDATION
NOT TO SCALE



**HELIX FOUNDATION
BASE ATTACHMENT DETAIL**
NOT TO SCALE

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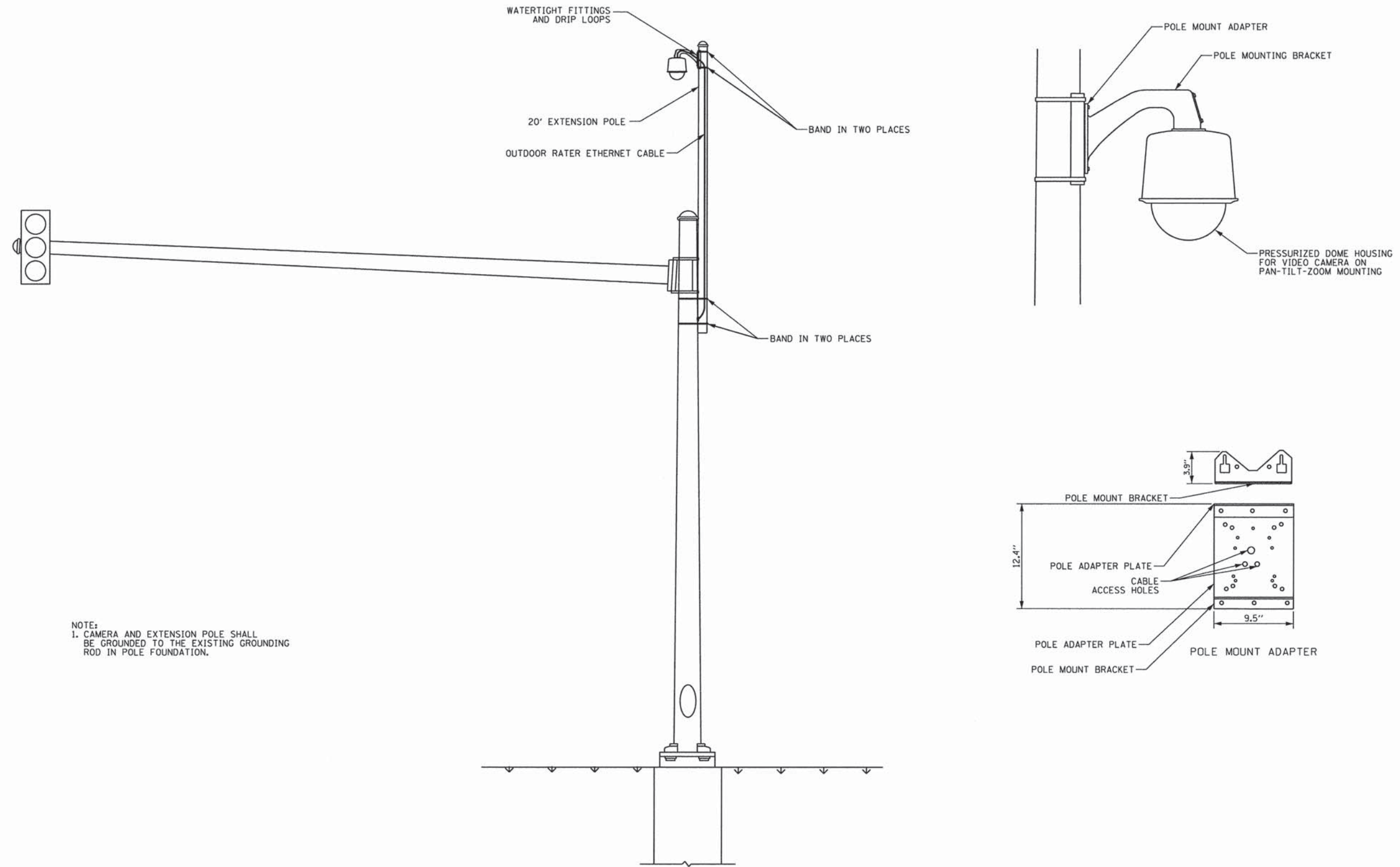
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PLLOT DATE * 5/20/2014	CHECKED - KG	REVISED -
	DATE - *DATE	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RADAR SPEED SIGN AND
CCTV POLE DETAIL**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
361	11-00214-00-TL	KANE	47	29
CONTRACT NO. 61A36			FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT	

SCALE: SHEET NO. ___ OF ___ SHEETS STA. _____ TO STA. _____



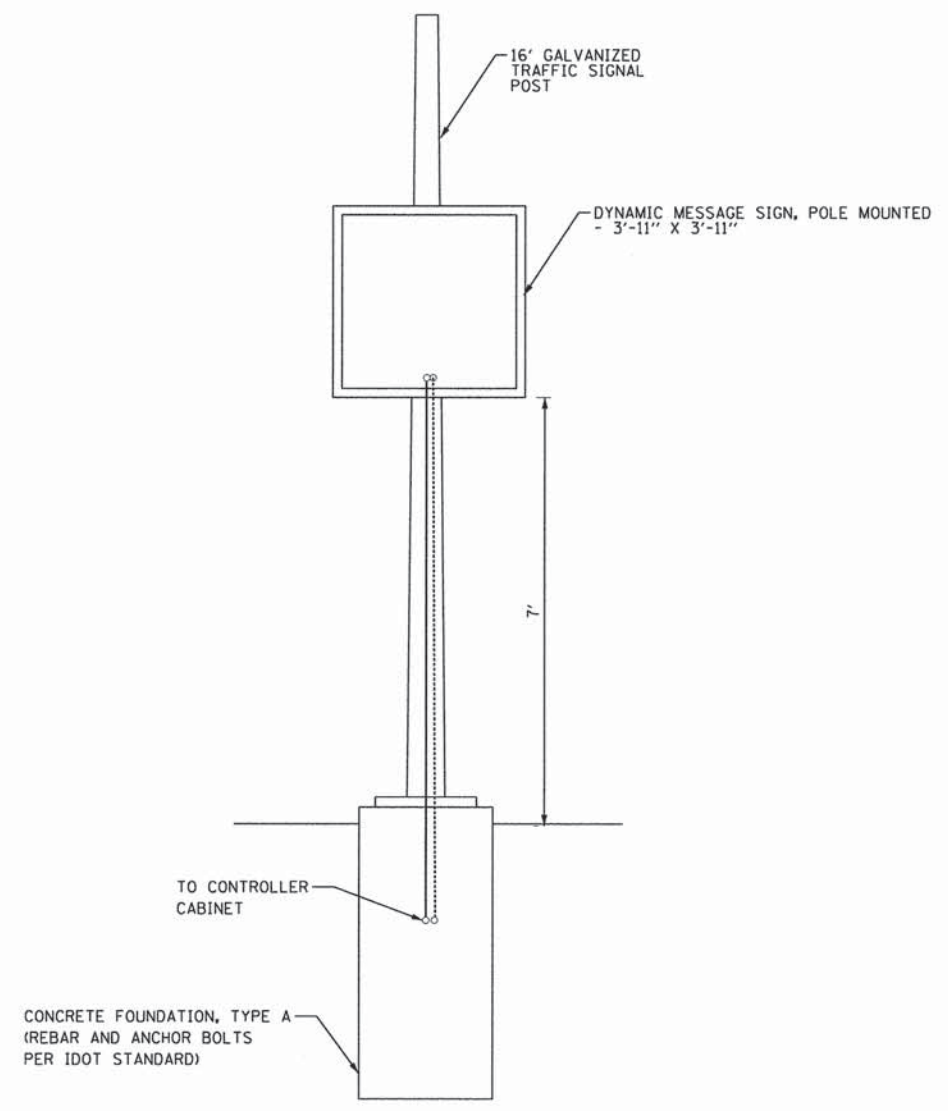
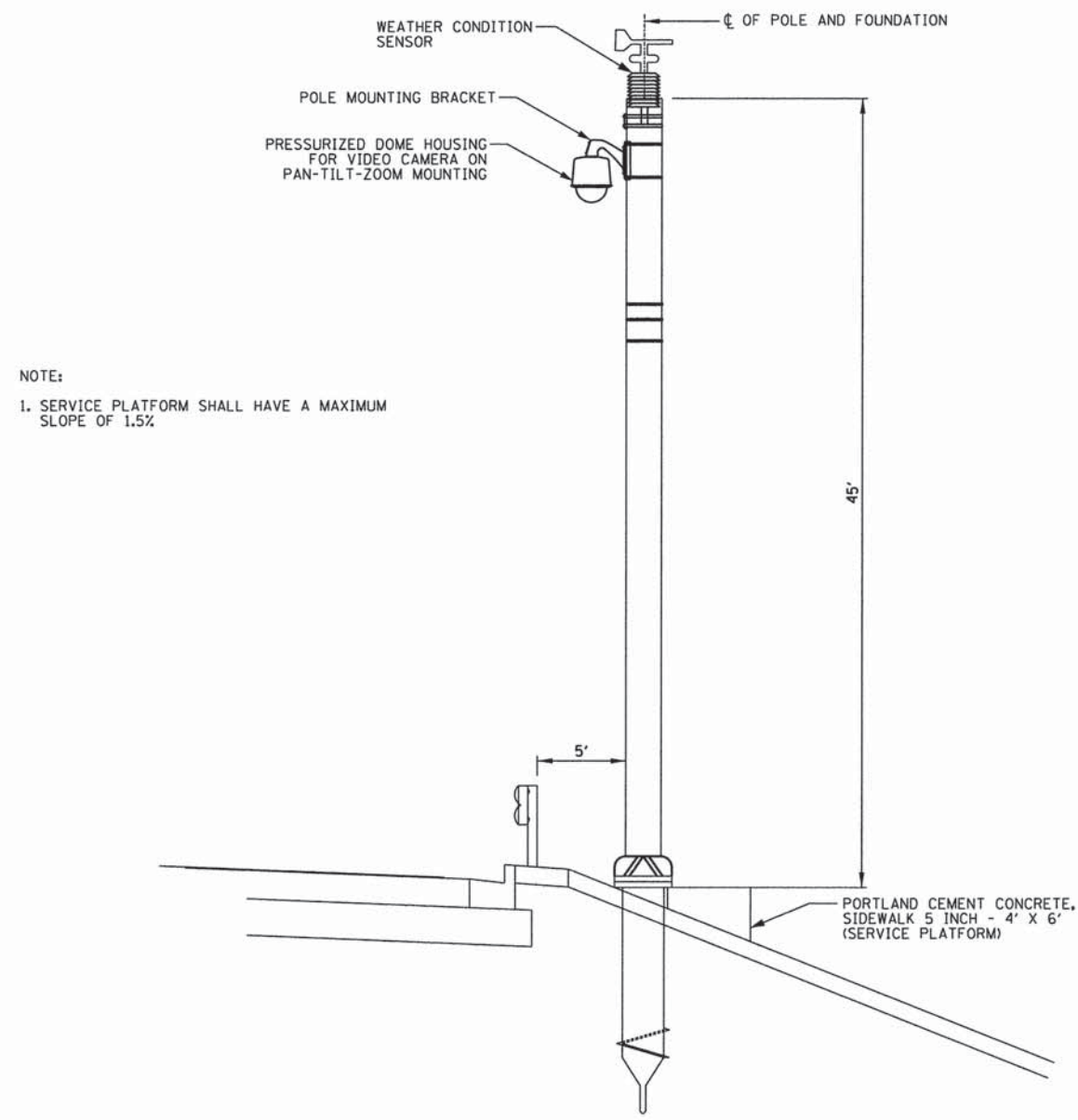
NOTE:
 1. CAMERA AND EXTENSION POLE SHALL BE GROUNDED TO THE EXISTING GROUNDING ROD IN POLE FOUNDATION.

DOME CAMERA INSTALLATION ON SIGNAL POLE
 NOT TO SCALE

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F.A.P. RTE. 361	SECTION 11-00214-00-TL	COUNTY KANE	TOTAL SHEETS 47	SHEET NO. 30
CONTRACT NO. 61A36				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

5/28/2014



ROAD WEATHER INFORMATION SYSTEM DETAIL
NOT TO SCALE

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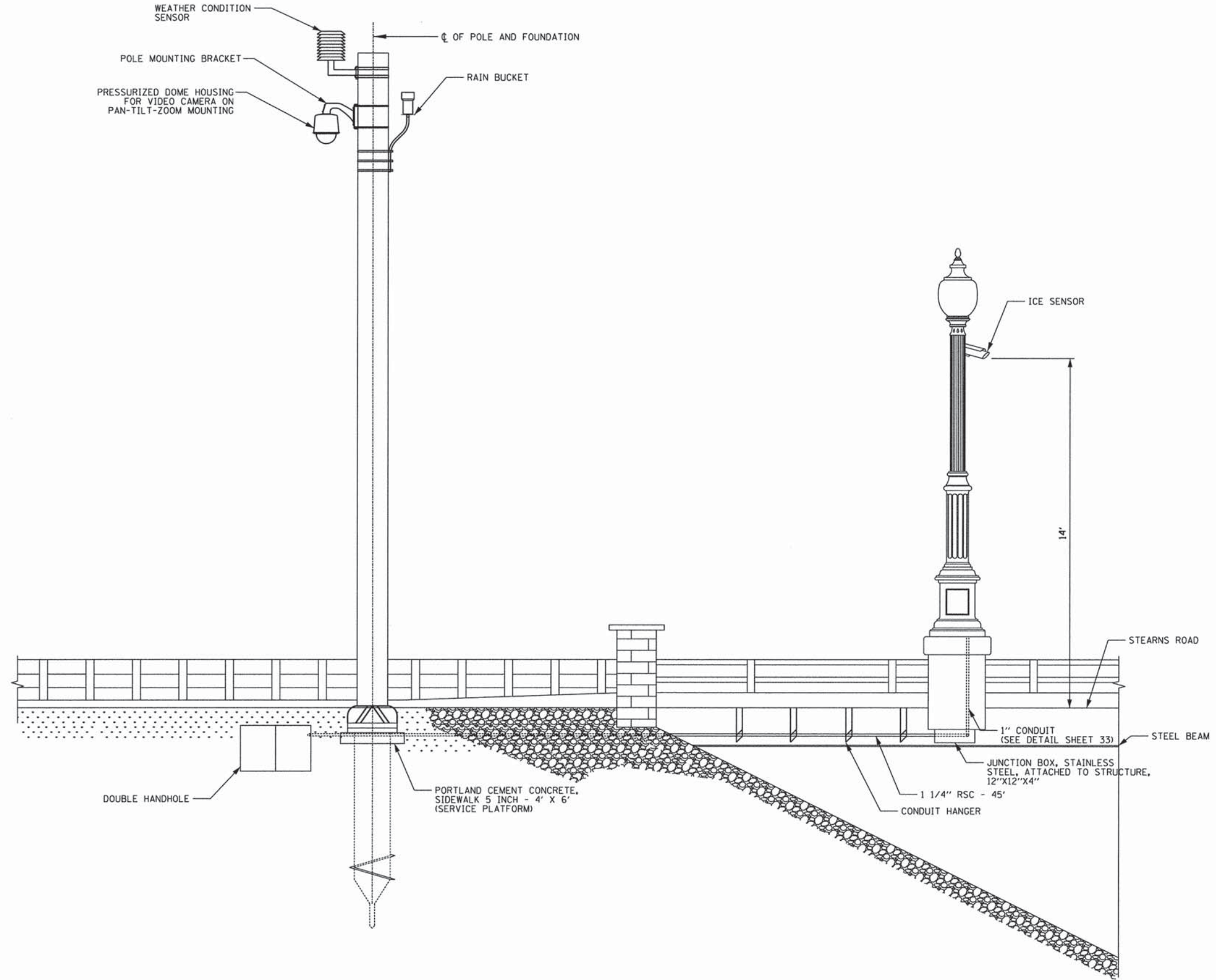
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DEPARTMENT OF TRANSPORTATION

ROAD WEATHER INFORMATION SYSTEM DETAIL
SCALE: SHEET NO. ___ OF ___ SHEETS STA. _____ TO STA. _____

F.A.P. RTE. 361	SECTION 11-00214-00-TL	COUNTY KANE	TOTAL SHEETS 47	SHEET NO. 31
CONTRACT NO. 61A36				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

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PLOT DATE * 5/20/2014	DATE - #DATE	REVISED -

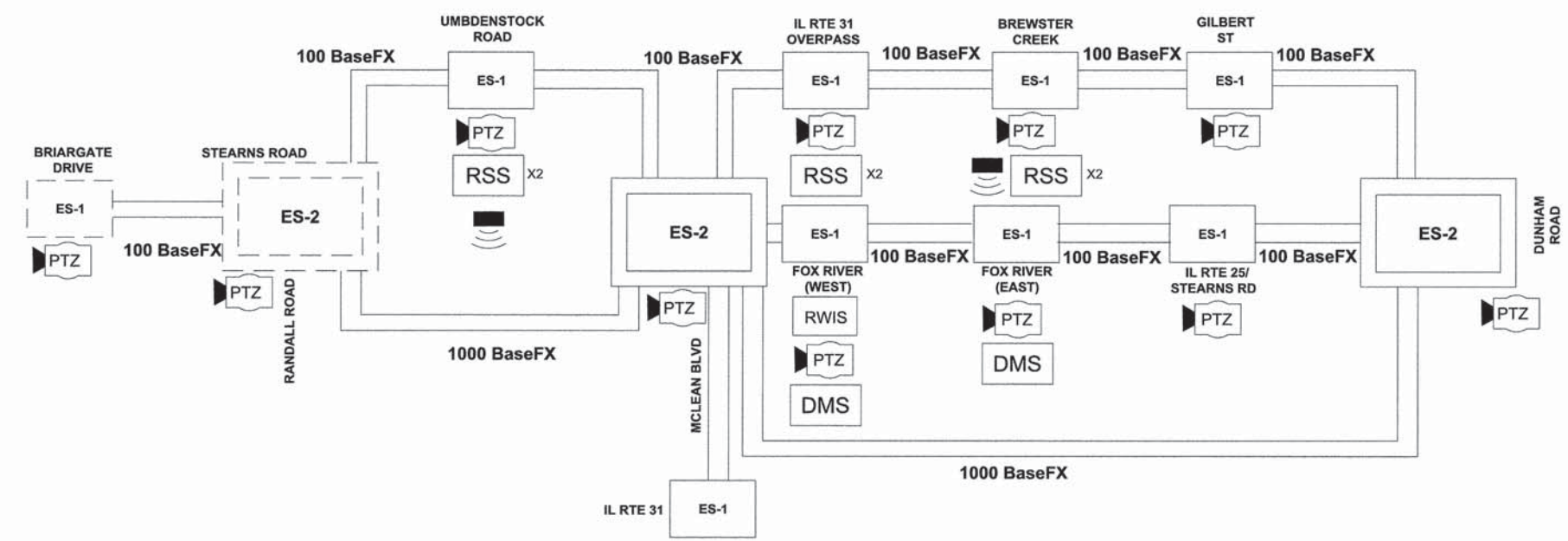
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROAD WEATHER INFORMATION SYSTEM DETAIL

SCALE: SHEET NO. ___ OF ___ SHEETS STA. _____ TO STA. _____

F.A.P. RTE. 361	SECTION 11-00214-00-TL	COUNTY KANE	TOTAL SHEETS 47	SHEET NO. 32
CONTRACT NO. 61A36				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

5/28/2014
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LEGEND

EXISTING	PROPOSED	
		ETHERNET SWITCH - TYPE 2
		ETHERNET SWITCH - TYPE 1
		PAN/TILT/ZOOM CCTV CAMERA <small>(SEE CABINET DETAIL AND FIBER OPTIC SPLICING DIAGRAMS FOR DETAILS)</small>
		FIBER OPTIC CONNECTION
		CAT-6 CONNECTION
		CONTROL CABINET
		RADAR SPEED SIGN
		RADAR VEHICLE DETECTION SYSTEM
	3	FIBER NUMBER
	RX	RECEIVE (CONNECTION ON GBIC MODULE)
	TX	TRANSMIT (CONNECTION ON GBIC MODULE)

NOTES

1. THE CONTRACTOR SHALL PROVIDE SOFTWARE ON A LAPTOP COMPUTER TO EMULATE THE OPERATIONS AT THE TRAFFIC MANAGEMENT CENTER. USING THE LAPTOP, THE CONTRACTOR WILL DEVELOP AND EXECUTE A TEST PLAN THAT DEMONSTRATES THAT ALL DEVICES, INSTALLED AS PART OF THIS PROJECT CAN BE CONTROLLED AT RANDALL RD USING THE NEW COMMUNICATIONS NETWORK..
2. THE TEST PLAN SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL A MINIMUM OF 30 DAYS PRIOR TO ANY TESTING.

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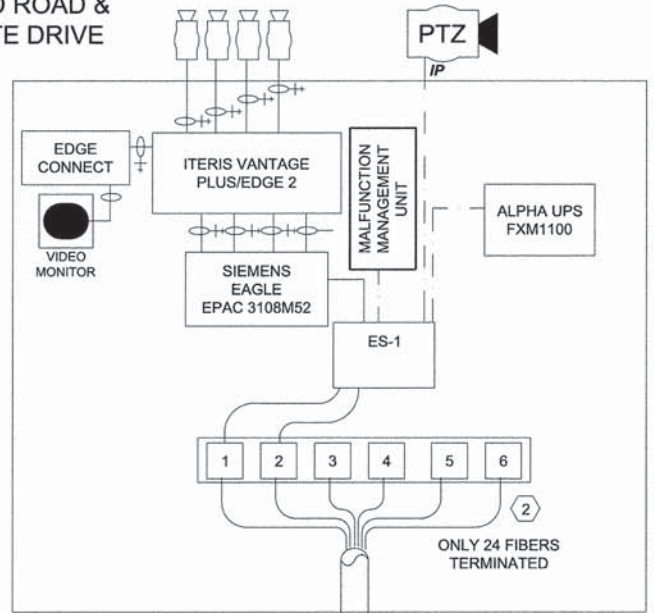
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DEPARTMENT OF TRANSPORTATION

FIBER OPTIC NETWORK DESIGN	
SCALE:	SHEET NO. ___ OF ___ SHEETS STA. _____ TO STA. _____

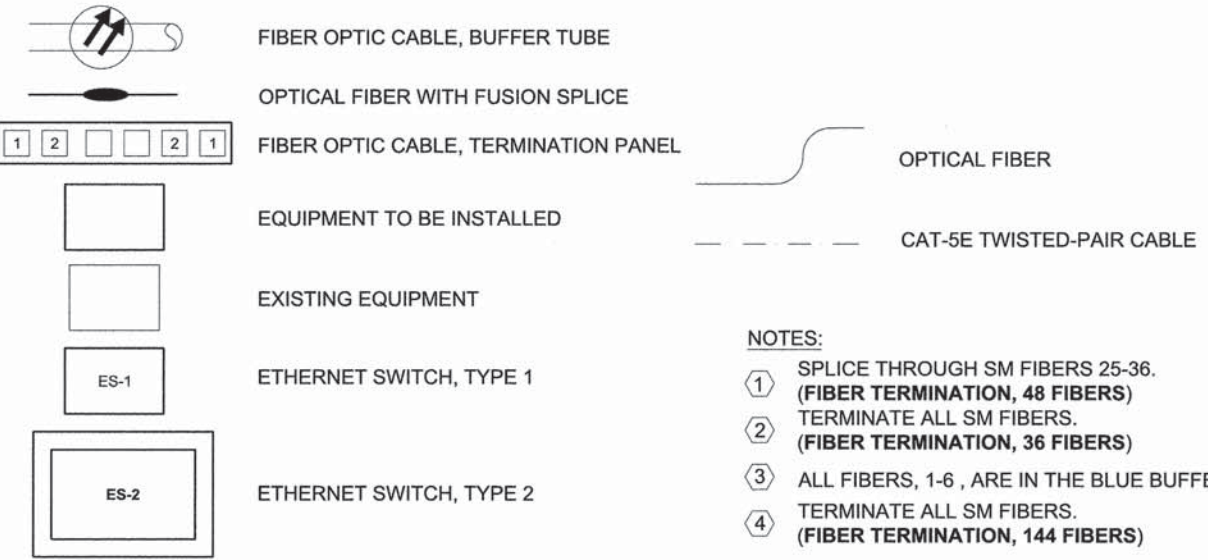
F.A.P. RTE. 361	SECTION 11-00214-00-TL	COUNTY KANE	TOTAL SHEETS 47	SHEET NO. 34
CONTRACT NO. 61A36				
<small>FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT</small>				

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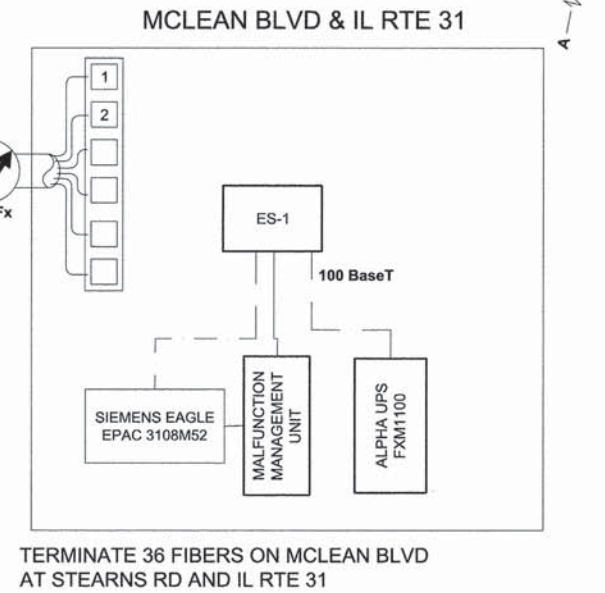
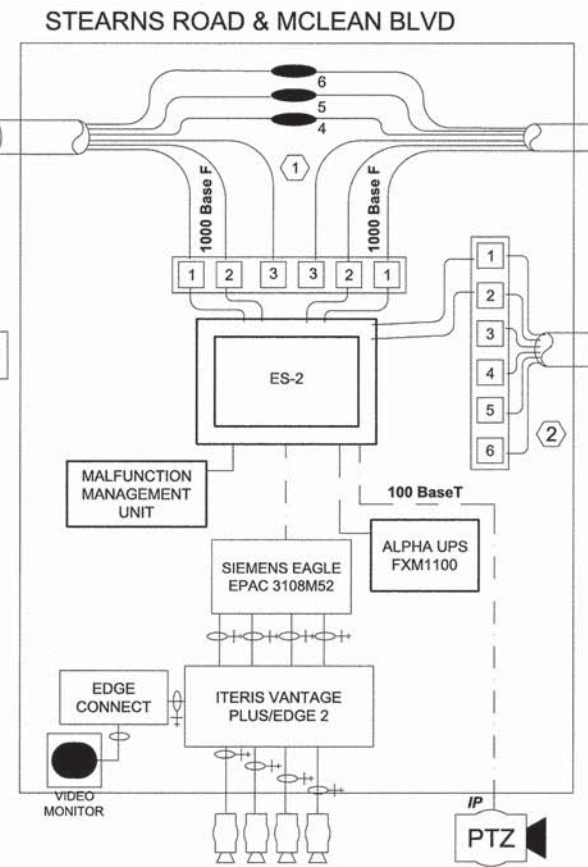
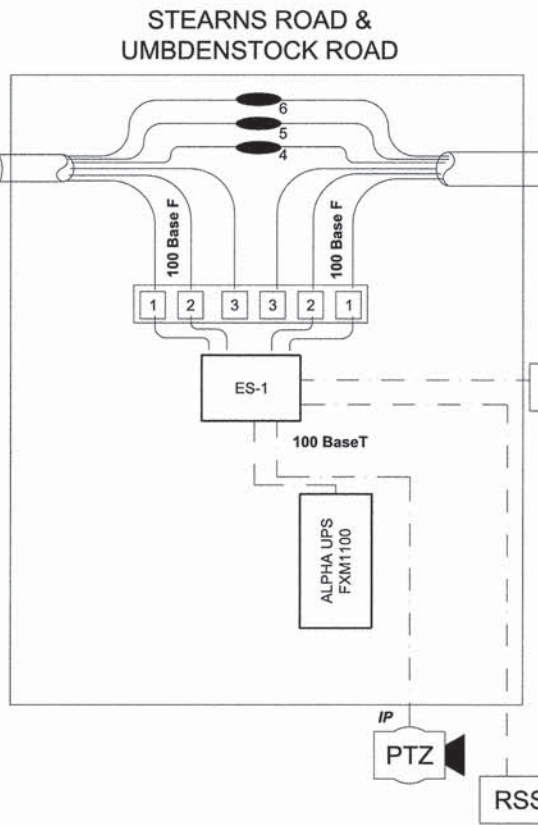
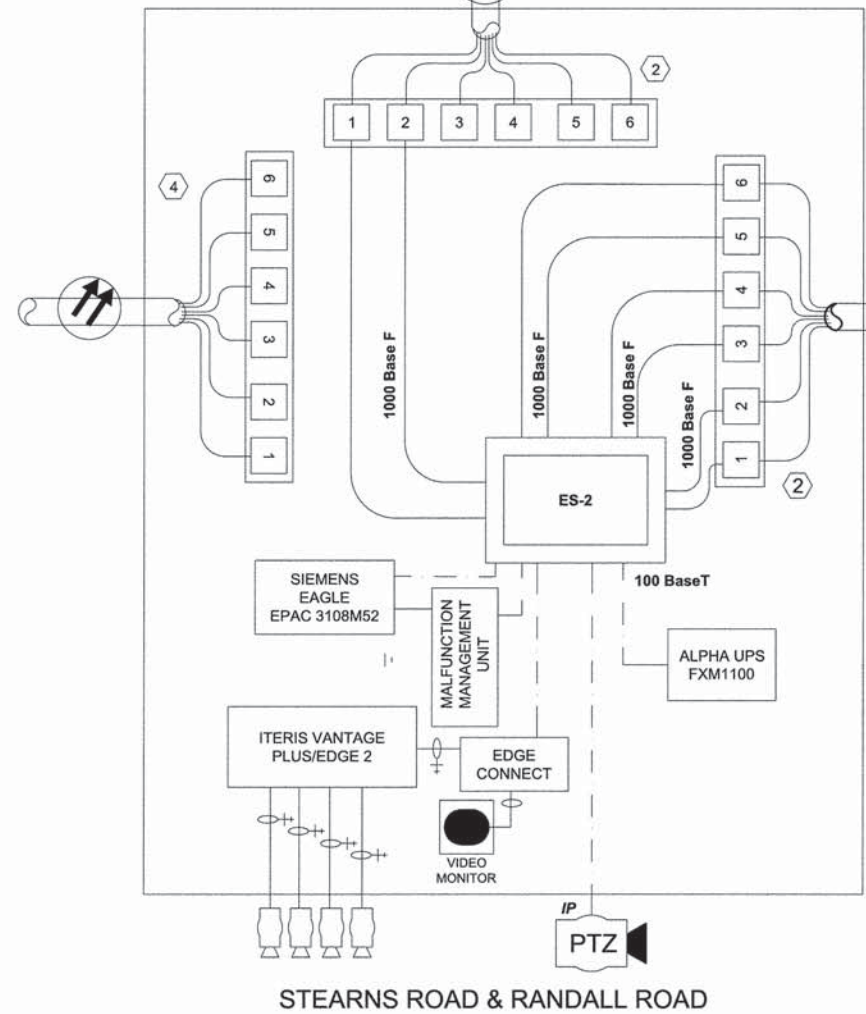
McDONALD ROAD & BRIARGATE DRIVE



LEGEND



- NOTES:**
- ① SPLICE THROUGH SM FIBERS 25-36.
(FIBER TERMINATION, 48 FIBERS)
 - ② TERMINATE ALL SM FIBERS.
(FIBER TERMINATION, 36 FIBERS)
 - ③ ALL FIBERS, 1-6, ARE IN THE BLUE BUFFER TUBE
 - ④ TERMINATE ALL SM FIBERS.
(FIBER TERMINATION, 144 FIBERS)



TERMINATE 36 FIBERS ON MCLEAN BLVD AT STEARNS RD AND IL RTE 31

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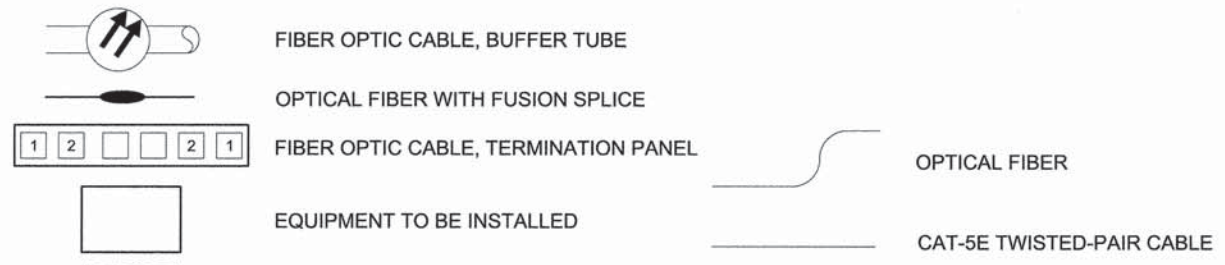
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CABINET DETAILS AND
FIBER OPTIC SPLICING DIAGRAM
SCALE: SHEET NO. ___ OF ___ SHEETS STA. _____ TO STA. _____

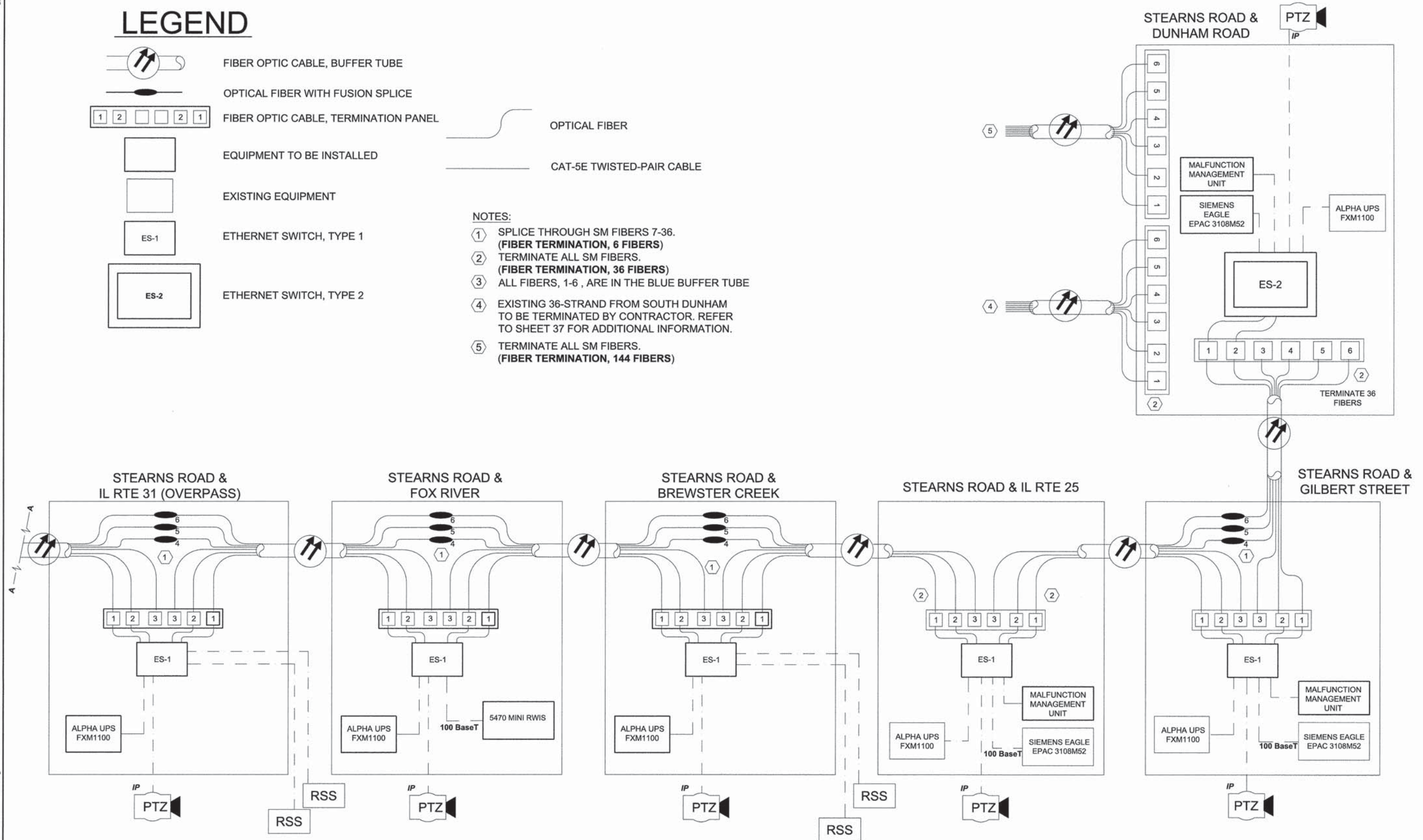
F.A.P. RTE. 361	SECTION 11-00214-00-TL	COUNTY KANE	TOTAL SHEETS 47	SHEET NO. 35
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 61A36	

5/28/2014
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LEGEND



- NOTES:**
- ① SPLICE THROUGH SM FIBERS 7-36. (FIBER TERMINATION, 6 FIBERS)
 - ② TERMINATE ALL SM FIBERS. (FIBER TERMINATION, 36 FIBERS)
 - ③ ALL FIBERS, 1-6, ARE IN THE BLUE BUFFER TUBE
 - ④ EXISTING 36-STRAND FROM SOUTH DUNHAM TO BE TERMINATED BY CONTRACTOR. REFER TO SHEET 37 FOR ADDITIONAL INFORMATION.
 - ⑤ TERMINATE ALL SM FIBERS. (FIBER TERMINATION, 144 FIBERS)



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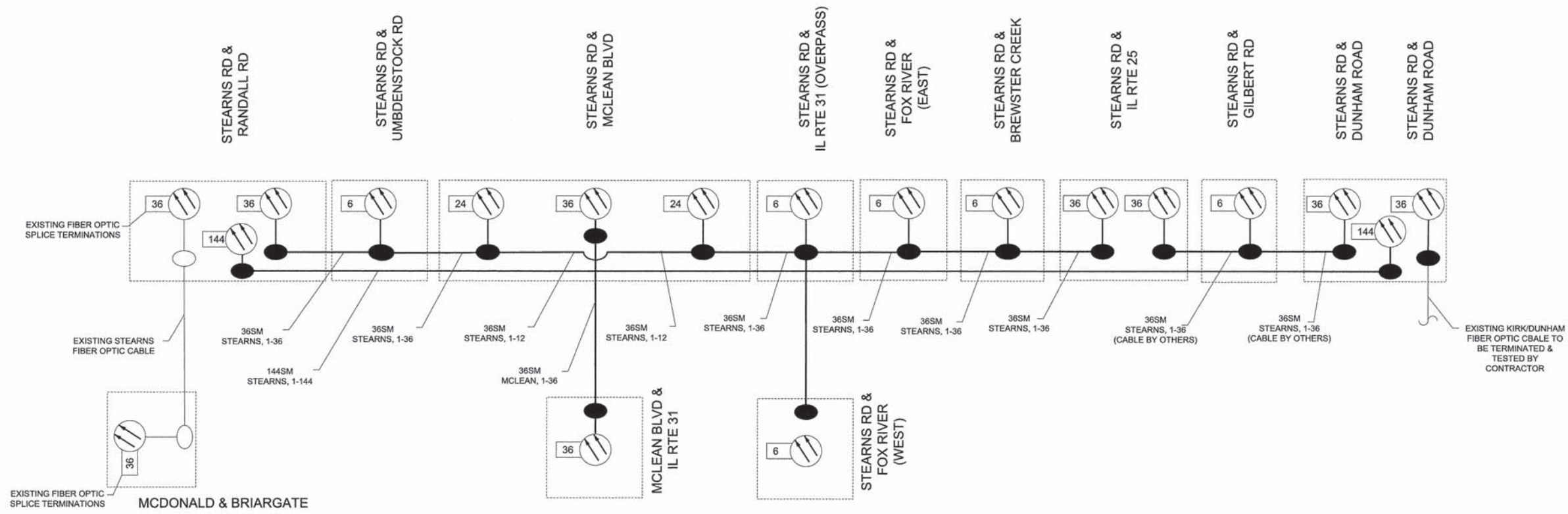
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DEPARTMENT OF TRANSPORTATION**

**CABINET DETAIL AND
FIBER OPTIC SPLICING DIAGRAM**

SCALE: SHEET NO. ___ OF ___ SHEETS STA. _____ TO STA. _____

F.A.P. RTE. 361	SECTION 11-00214-00-TL	COUNTY KANE	TOTAL SHEETS 47	SHEET NO. 36
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 61A36	



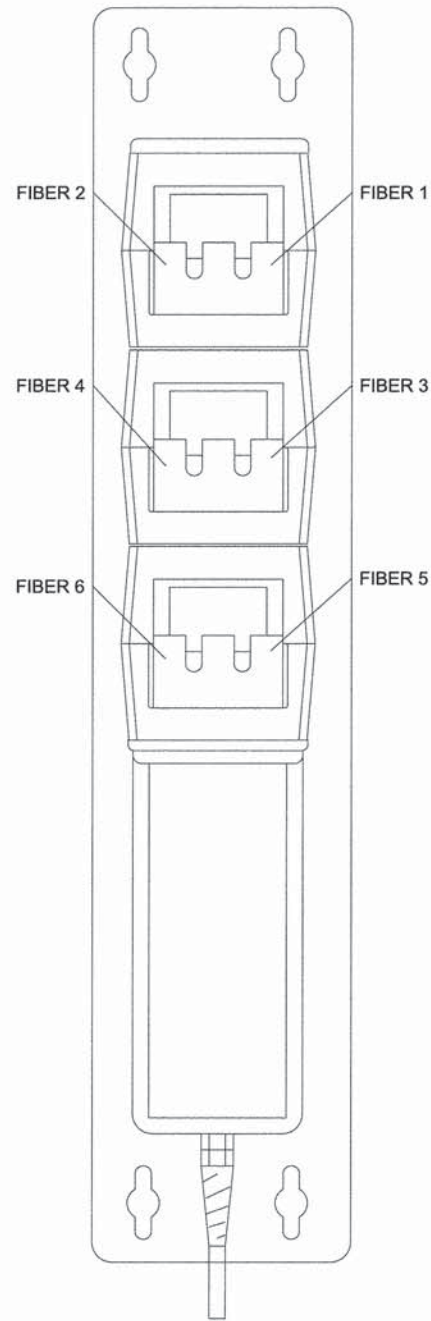
SCHEDULE OF QUANTITIES - INTERCONNECT

ITEM	UNIT	QUANTITY
FIBER OPTIC CABLE 36 FIBERS, SINGLE MODE	FOOT	23642
FIBER OPTIC CABLE 144 FIBERS, SINGLE MODE	FOOT	22351
FIBER OPTIC TERMINATIONS, 6 FIBER	EACH	15
FIBER OPTIC TERMINATIONS, 48 FIBER	EACH	2
NETWORK CONFIGURATION	EACH	1

NOTE: ACTUAL NUMBER OF FIBER TERMINATIONS SHOWN ON THE SCHEMATIC SHALL BE PAID FOR AS FIBER OPTIC TERMINATION, 6 FIBER AND FIBER OPTIC TERMINATIONS, 48 FIBER BASED ON THE FOLLOWING SCHEDULE.

SHOWN	PAID FOR AS
6 FIBER TERMINATIONS	FIBER OPTIC TERMINATIONS 6 FIBER; QNTY. = 1
24 FIBER TERMINATIONS	FIBER OPTIC TERMINATIONS 6 FIBER; QNTY. = 4
36 FIBER TERMINATIONS	FIBER OPTIC TERMINATIONS 48 FIBER; QNTY. = 1
48 FIBER TERMINATIONS	FIBER OPTIC TERMINATIONS 48 FIBER; QNTY. = 1
144 FIBER TERMINATIONS	FIBER OPTIC TERMINATIONS 48 FIBER; QNTY. = 4

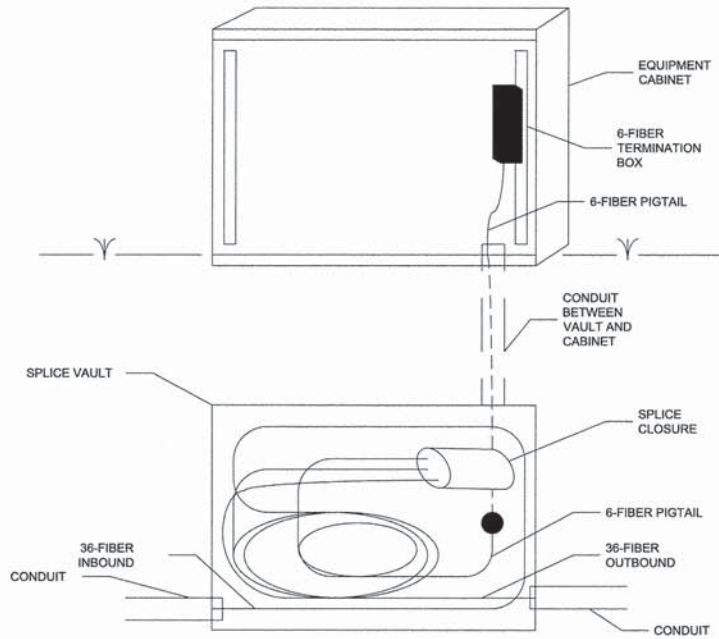
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PLOT DATE = 5/28/2014	DATE - #DATE	REVISED -



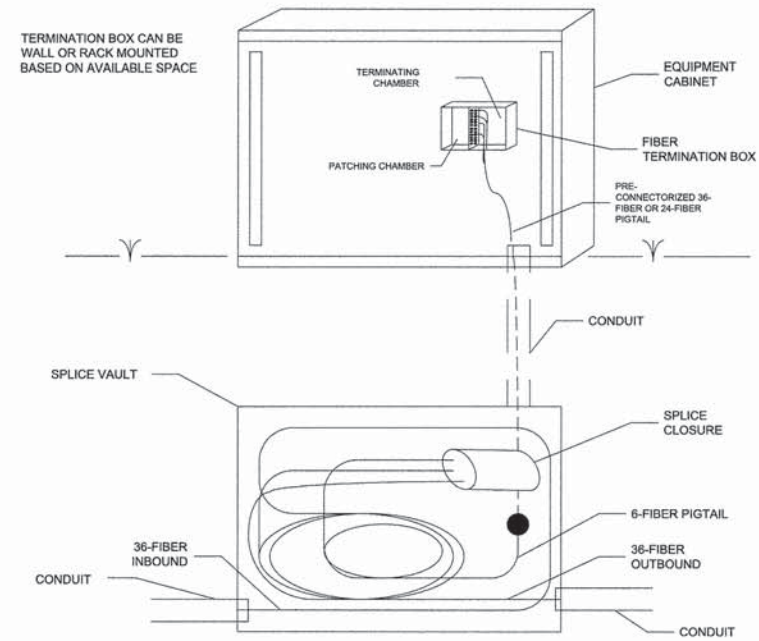
GATOR PATCH FIBER NUMBER	UMBDEN STOCK	IL RTE 31	IL RTE 31 RWIS	FOX RIVER (WEST)	FOX RIVER (EAST)	BREWSTER CREEK	IL RTE 25	GILBERT ST
1 - BLUE	E1-BLU	E4-BRN	E1-BLU	E1-BLU	E4-BRN	E1-BLU	E4-BRN	E1-BLU
2 - ORANGE	E2-ORG	E5-SLA	E2-ORG	E2-ORG	E5-SLA	E2-ORG	E5-SLA	E2-ORG
3 - GREEN	E3-GRN	E6-WHT	E3-GRN	E3-GRN	E6-WHT	E3-GRN	E6-WHT	E3-GRN
4 - BROWN	W3-GRN	W6-WHT	W3-GRN	W3-GRN	W6-WHT	W3-GRN	W6-WHT	W3-GRN
5 - SLATE	W2-ORG	W5-SLA	W2-ORG	W2-ORG	W5-SLA	W2-ORG	W5-SLA	W2-ORG
6 - WHITE	W1-BLU	W4-BRN	W1-BLU	W1-BLU	W4-BRN	W1-BLU	W4-BRN	W1-BLU

FIBER NUMBER IN BACKBONE SHEATH							
BLUE	BLUE	BLUE	BLUE	BLUE	BLUE	BLUE	BLUE
BUFFER TUBE COLOR IN BACKBONE SHEATH							

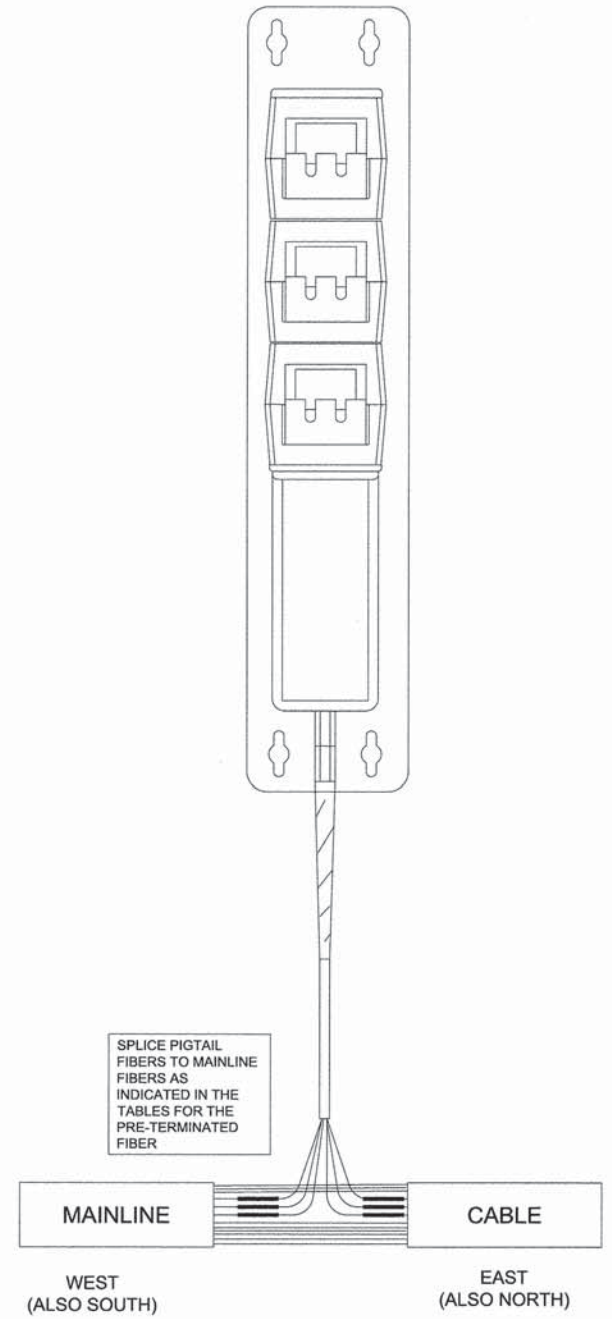
PRE-TERMINATED FIBER ASSIGNMENTS



DRAWING IS TYPICAL, SCHEMATIC AND NOT TO SCALE



DRAWING IS TYPICAL, SCHEMATIC AND NOT TO SCALE



FIBER	TUBE	FIBER	CABLE IDENT FIBER NUMBER	CONNECTION							RANDALL RD	UMBENSTOCK	MCLEAN	RTE 31 OVERPASS	RTE31 OVERPASS FOR RWIS	FOX RIVER	BREWSTER CREEK	IL RTE 25 WESTBOUND	IL RTE 25 EASTBOUND	GILBERT ST	DUNHAM RD	CONNECTION	COMMENT		
1	BLUE	BLU	STEARNS	1							T	E/W	E/W		E/W		E/W	T	T	E/W	T		PATCHED AT MCLEAN & RTE25		
2		ORG		2								T	E/W	E/W		E/W		E/W	T	T	E/W	T		PATCHED AT MCLEAN & RTE25	
3		GRN		3								T	E/W	E/W		E/W		E/W	T	T	E/W	T		PATCHED AT MCLEAN & RTE25	
4		BRN		4								T		E/W	E/W		E/W			T	T		T		PATCHED AT MCLEAN & RTE25
5		SLA		5								T		E/W	E/W		E/W			T	T		T		PATCHED AT MCLEAN & RTE25
6		WHT		6								T		E/W	E/W		E/W			T	T		T		PATCHED AT MCLEAN & RTE25
7		RED		7								T		E/W						T	T		T		
8		BLK		8								T		E/W						T	T		T		
9		YEL		9								T		E/W						T	T		T		
10		VIO		10								T		E/W						T	T		T		
11		ROSE		11								T		E/W						T	T		T		
12		AQUA		12								T		E/W						T	T		T		
13	ORANGE	BLU	STEARNS	13							T		E/W					T	T		T				
14		ORG		14								T		E/W					T	T		T			
15		GRN		15								T		E/W					T	T		T			
16		BRN		16								T		E/W						T	T		T		
17		SLA		17								T		E/W						T	T		T		
18		WHT		18								T		E/W						T	T		T		
19		RED		19								T		E/W						T	T		T		
20		BLK		20								T		E/W						T	T		T		
21		YEL		21								T		E/W						T	T		T		
22		VIO		22								T		E/W						T	T		T		
23		ROSE		23								T		E/W						T	T		T		
24		AQUA		24								T		E/W						T	T		T		
25	GREEN	BLU	STEARNS	25							T		S					T	T		T				
26		ORG		26								T		S					T	T		T			
27		GRN		27								T		S					T	T		T			
28		BRN		28								T		S						T	T		T		
29		SLA		29								T		S						T	T		T		
30		WHT		30								T		S						T	T		T		
31		RED		31								T		S						T	T		T		
32		BLK		32								T		S						T	T		T		
33		YEL		33								T		S						T	T		T		
34		VIO		34								T		S						T	T		T		
35		ROSE		35								T		S						T	T		T		
36		AQUA		36								T		S						T	T		T		



USER NAME *	DESIGNED - CH	REVISED -
PLOT SCALE *	DRAWN - KB, DL	REVISED -
PLOT DATE * 5/20/2014	CHECKED - KG	REVISED -
	DATE - #DATE	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

FIBER ASSIGNMENTS		
SCALE:	SHEET NO. ___ OF ___ SHEETS	STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
361	11-00214-00-TL	KANE	47	39
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				
CONTRACT NO. 61A36				

5/28/2014
 PL: 2013-05-28 13:08:00 788 CADDFIBER ASSIGNMENTS-2.dgn

FIBER	TUBE	FIBER	CABLE IDENT FIBER NUMBER	CONNECTION	STEARNS	IL RTE 31	CONNECTION	COMMENT
1	BLUE	BLU	MCLEAN	1 STEARNS/MCLEAN LINK	T	T	STEARNS/MCLEAN LINK	
2		ORG		2 STEARNS/MCLEAN LINK	T	T	STEARNS/MCLEAN LINK	
3		GRN		3	T	T		
4		BRN		4	T	T		
5		SLA		5	T	T		
6		WHT		6	T	T		
7		RED		7	T	T		
8		BLK		8	T	T		
9		YEL		9	T	T		
10		VIO		10	T	T		
11		ROSE		11	T	T		
12		AQUA		12	T	T		
13	ORANGE	BLU	MCLEAN	13	T	T		
14		ORG		14	T	T		
15		GRN		15	T	T		
16		BRN		16	T	T		
17		SLA		17	T	T		
18		WHT		18	T	T		
19		RED		19	T	T		
20		BLK		20	T	T		
21		YEL		21	T	T		
22		VIO		22	T	T		
23		ROSE		23	T	T		
24		AQUA		24	T	T		
25	GREEN	BLU	MCLEAN	25	T	T		
26		ORG		26	T	T		
27		GRN		27	T	T		
28		BRN		28	T	T		
29		SLA		29	T	T		
30		WHT		30	T	T		
31		RED		31	T	T		
32		BLK		32	T	T		
33		YEL		33	T	T		
34		VIO		34	T	T		
35		ROSE		35	T	T		
36		AQUA		36	T	T		

FIBER	TUBE	FIBER	CABLE IDENT FIBER NUMBER	CONNECTION	RANDALL RD	MCDONALD RD	CONNECTION	COMMENT	
1	BLUE	BLU	BRIARGATE	1 ITS SWITCH	T	T	ITS SWITCH	100 M BPS LINK	
2		ORG		2 ITS SWITCH	T	T	ITS SWITCH	100 M BPS LINK	
3		GRN		3	T	T			
4		BRN		4	T	T			
5		SLA		5	T	T			
6		WHT		6	T	T			
7		RED		7	T	T			
8		BLK		8	T	T			
9		YEL		9	T	T			
10		VIO		10	T	T			
11		ROSE		11	T	T			
12		AQUA		12	T	T			
13	ORANGE	BLU	BRIARGATE	13	T	T			
14		ORG		14	T	T			
15		GRN		15	T	T			
16		BRN		16	T	T			
17		SLA		17	T	T			
18		WHT		18	T	T			
19		RED		19	T	T			
20		BLK		20	T	T			
21		YEL		21	T	T			
22		VIO		22	T	T			
23		ROSE		23	T	T			
24		AQUA		24	T	T			
25	GREEN	BLU	BRIARGATE	25					
26		ORG		26					
27		GRN		27					
28		BRN		28					
29		SLA		29					
30		WHT		30					
31		RED		31					
32		BLK		32					
33		YEL		33					
34		VIO		34					
35		ROSE		35					
36		AQUA		36					



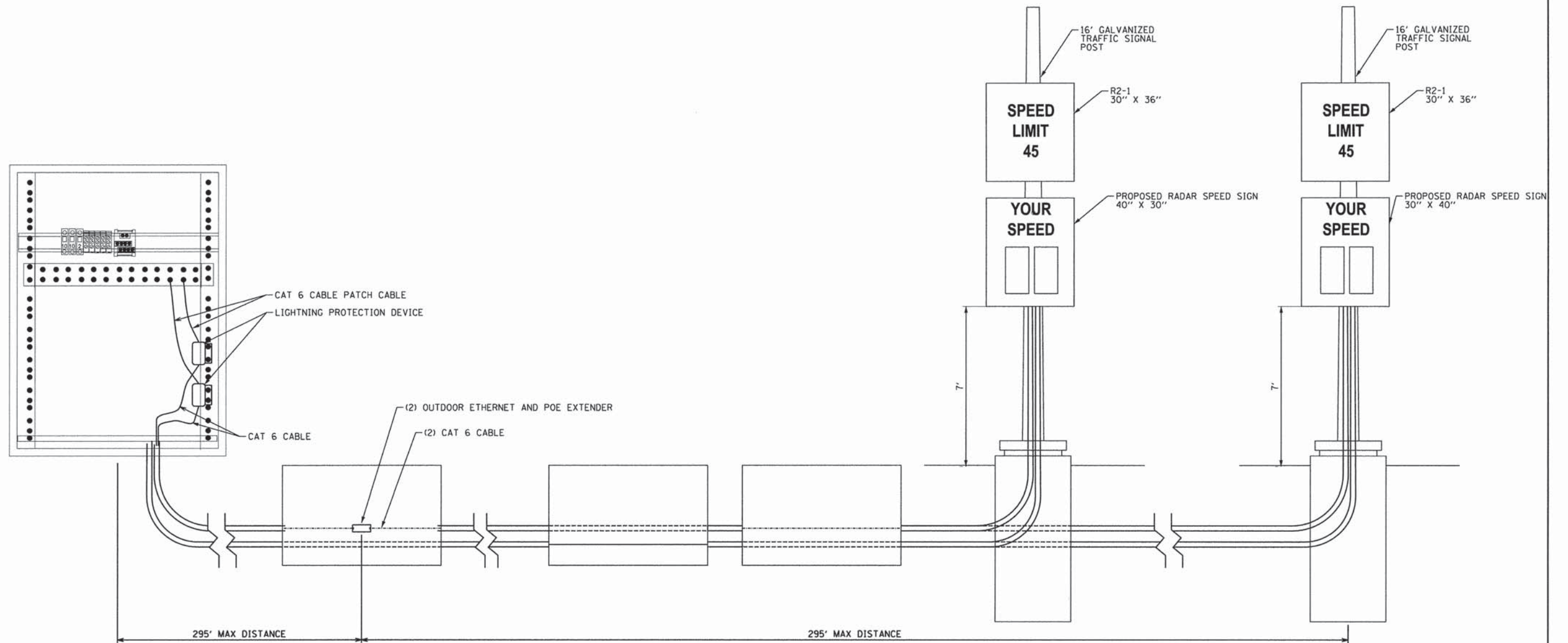
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PLOT SCALE =	DRAWN - KB, DL	REVISED -
PLOT DATE = 5/28/2014	CHECKED - KG	REVISED -
	DATE - #DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FIBER ASSIGNMENTS

SCALE: SHEET NO. ___ OF ___ SHEETS STA. _____ TO STA. _____

F.A.P. RTE. 361	SECTION 11-00214-00-TL	COUNTY KANE	TOTAL SHEETS 47	SHEET NO. 40
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 61A36	

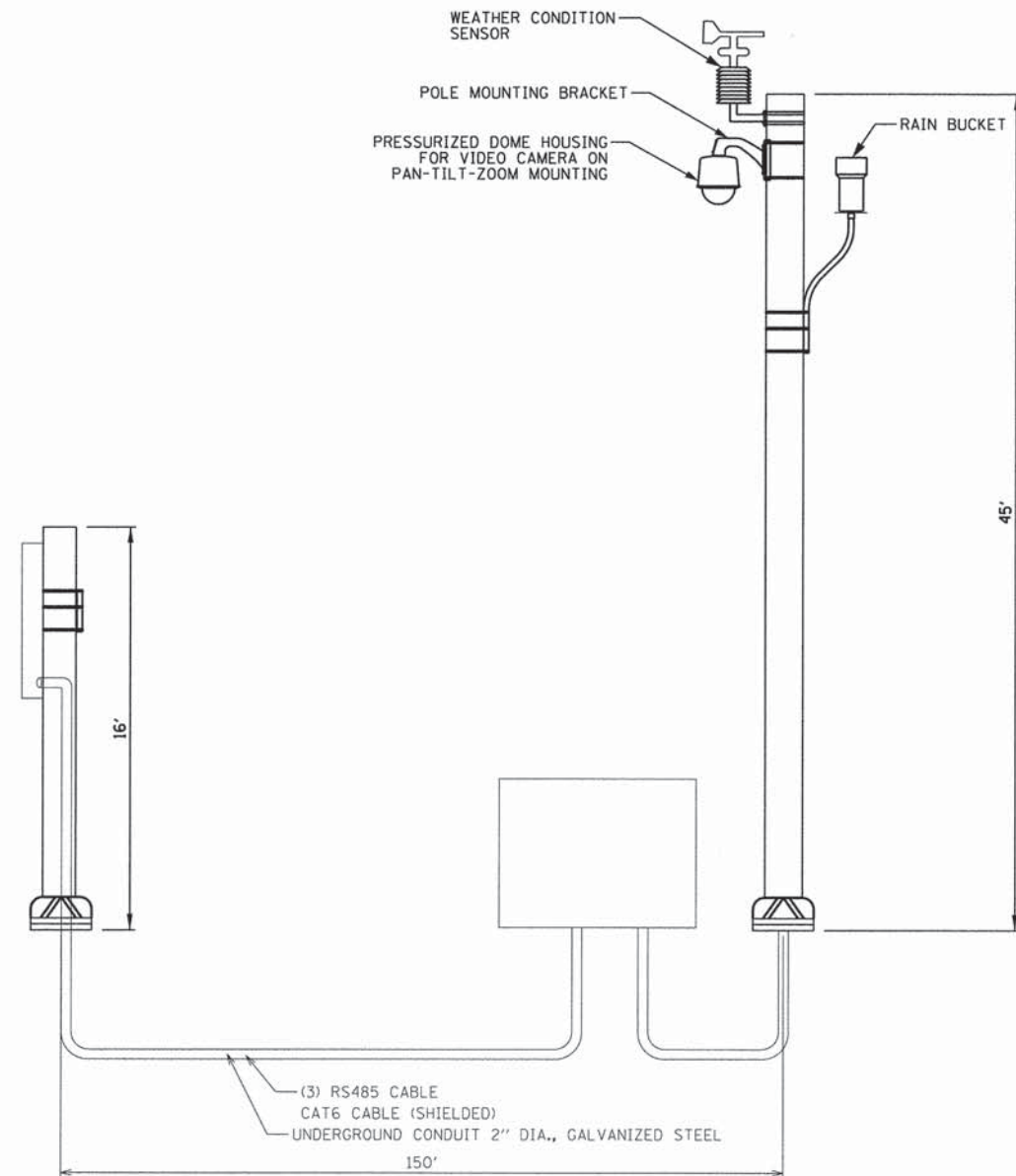
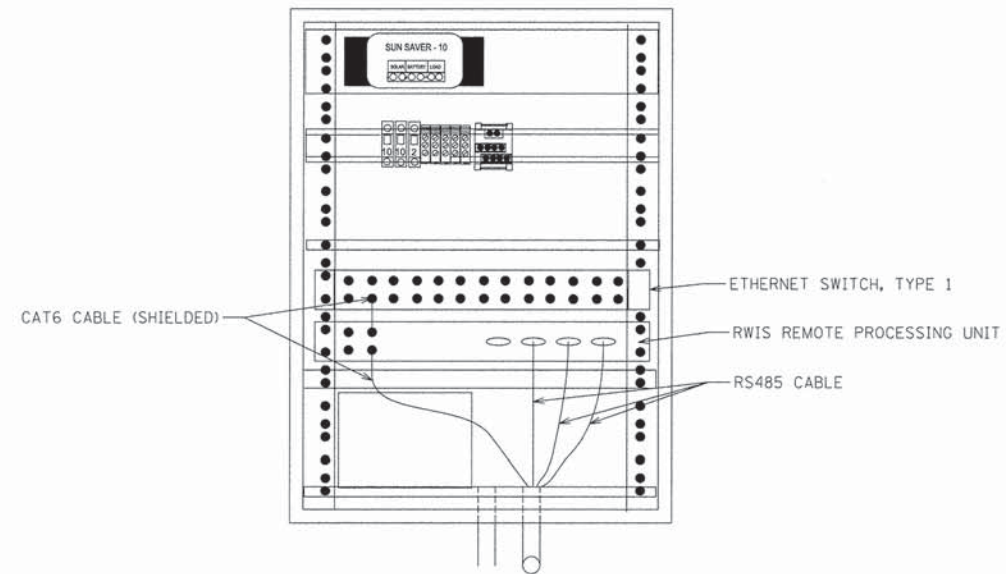


RADAR SPEED SIGN DETAIL
NOT TO SCALE

USER NAME =	DESIGNED - CH	REVISED -
DRAWN - KB, DL	CHECKED - KG	REVISED -
PLOT SCALE =	DATE - #DATE	REVISED -
PLOT DATE = 5/28/2014		

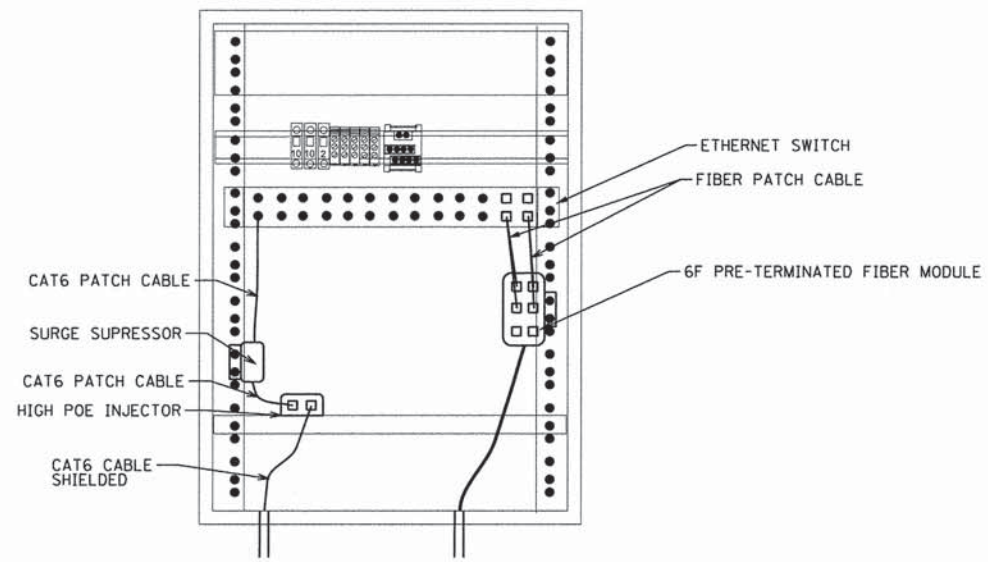
RADAR SPEED SIGN DETAIL	
SCALE:	SHEET NO. ___ OF ___ SHEETS STA. _____ TO STA. _____

F.A.P. RTE. 361	SECTION 11-00214-00-TL	COUNTY KANE	TOTAL SHEETS 47	SHEET NO. 41
CONTRACT NO. 61A36				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

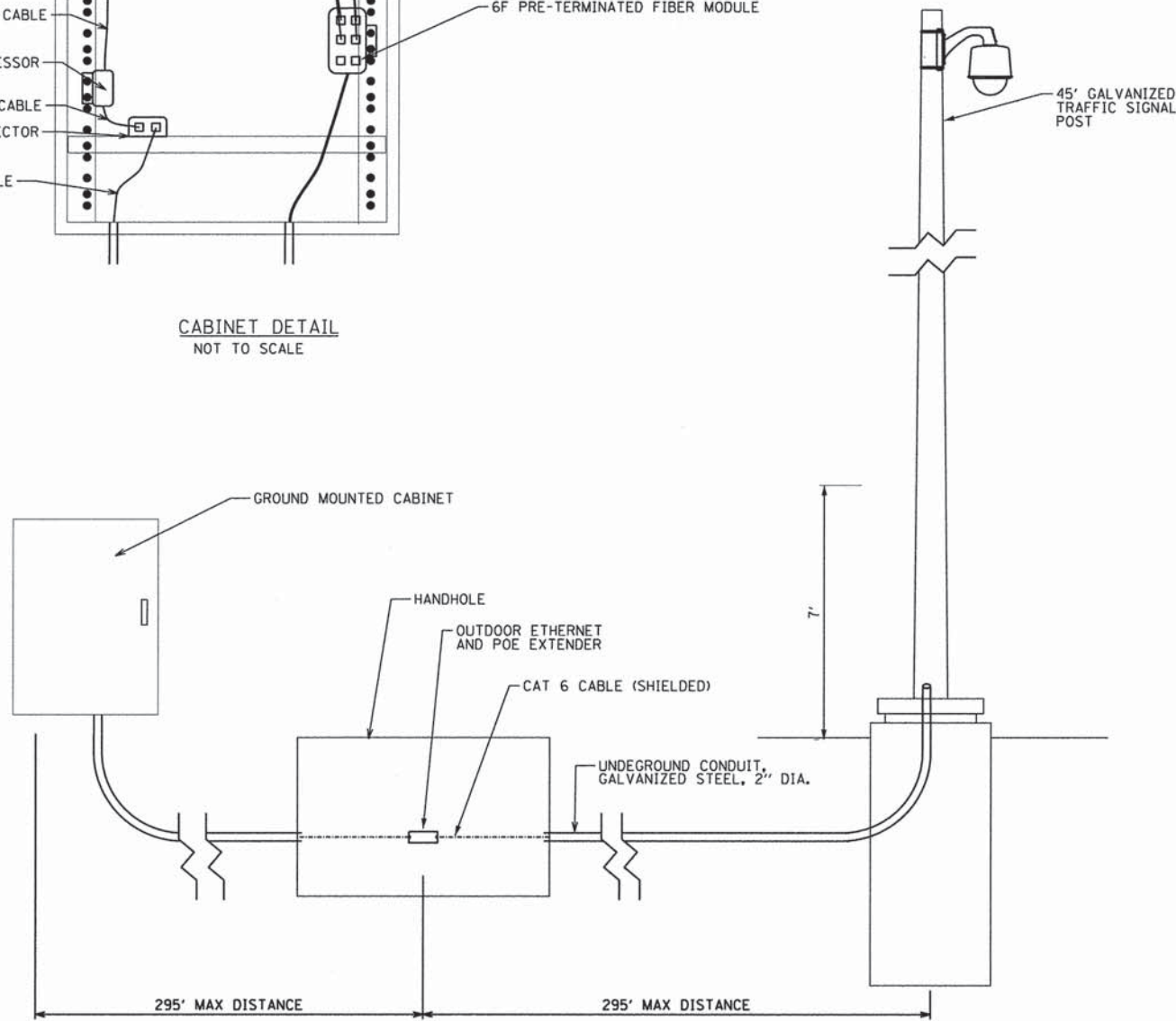


USER NAME =	DESIGNED - CH	REVISED -
DRAWN - KB, DL	REVISED -	
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PLDT DATE = 5/20/2014	DATE - #DATE	REVISED -

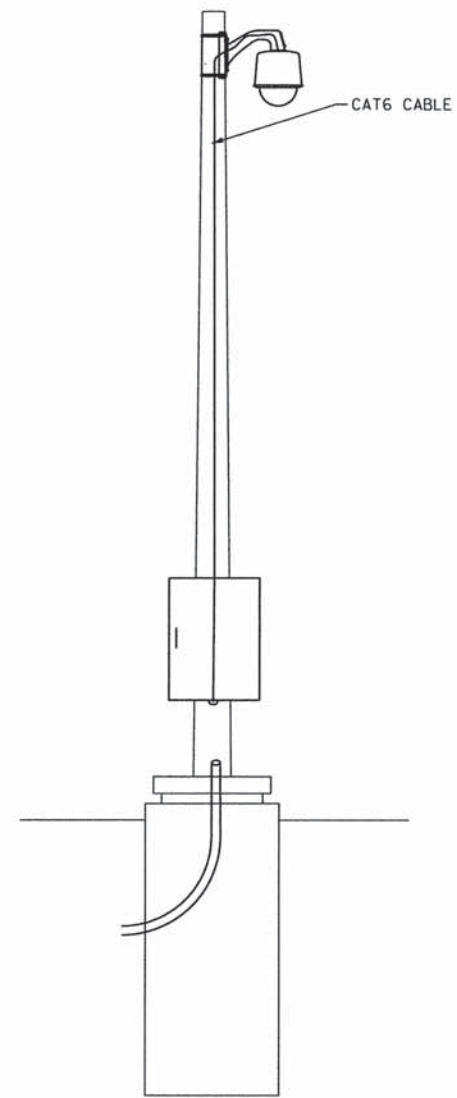
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
361	11-00214-00-TL	KANE	47	42
CONTRACT NO. 61A36				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				



CABINET DETAIL
 NOT TO SCALE



CCTV CAMERA DETAIL
 NOT TO SCALE

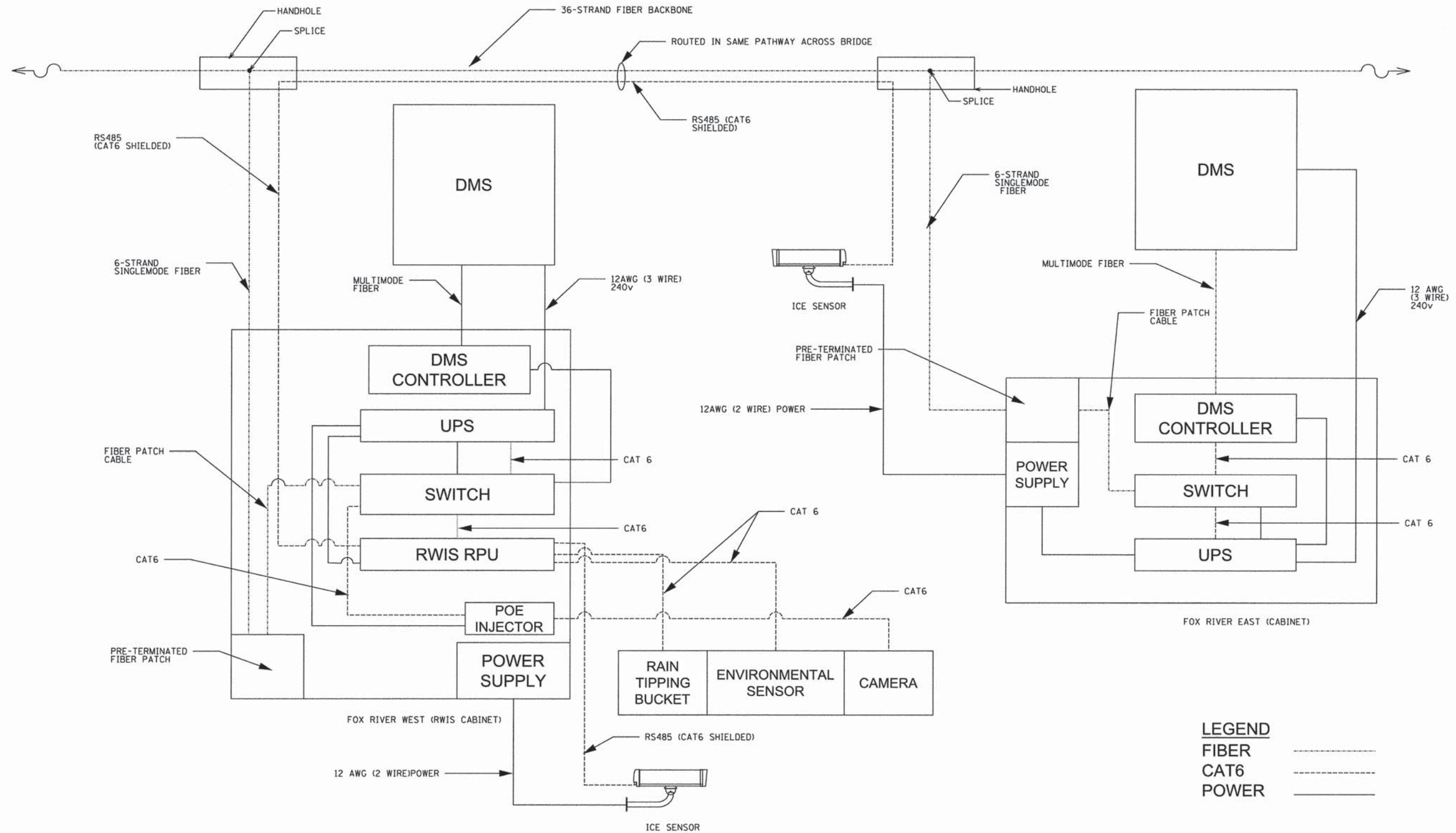


CCTV CAMERA DETAIL
 NOT TO SCALE

USER NAME =	DESIGNED - CH	REVISED -
PLOT SCALE =	DRAWN - KB, DL	REVISED -
PLOT DATE = 5/20/2014	CHECKED - KG	REVISED -
	DATE - *DATE	REVISED -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
361	11-00214-00-TL	KANE	47	43
CONTRACT NO. 61A36				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

5/28/2014



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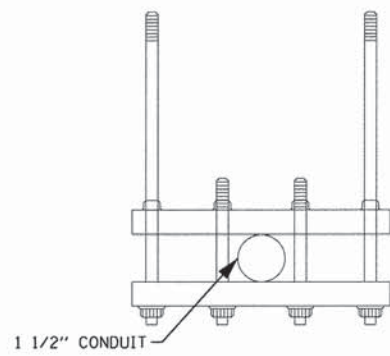
JACOBS
 525 WEST MONROE
 CHICAGO IL, 60661
 312-251-3000

USER NAME *	DESIGNED - CH	REVISED -
PLOT SCALE *	DRAWN - KB, DL	REVISED -
PLOT DATE = 5/28/2014	CHECKED - KG	REVISED -
	DATE - #DATE	REVISED -

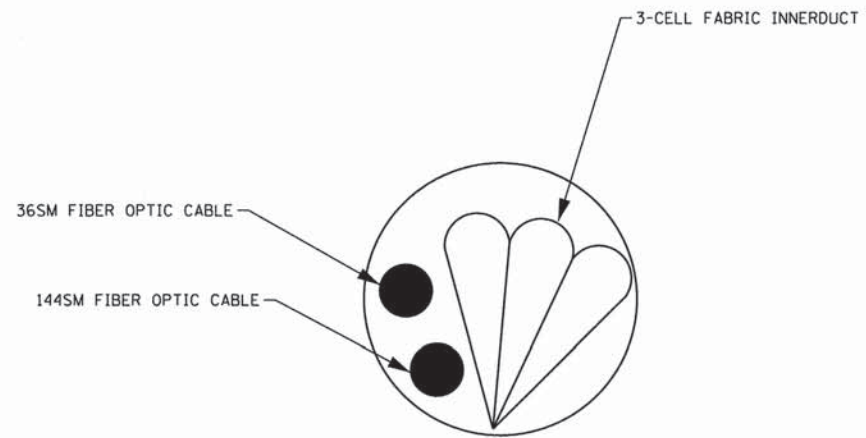
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

RWIS/DMS BLOCK DIAGRAM
 SCALE: SHEET NO. ___ OF ___ SHEETS STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
361	11-00214-00-TL	KANE	47	44
CONTRACT NO. 61A36				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				



CONDUIT HANGER DETAIL
NOT TO SCALE



CONDUIT CROSS SECTION DETAIL
NOT TO SCALE

USER NAME *	DESIGNED - CH	REVISED -
	DRAWN - KB, DL	REVISED -
PLOT SCALE *	CHECKED - KG	REVISED -
PLOT DATE * 5/28/2014	DATE - #DATE	REVISED -

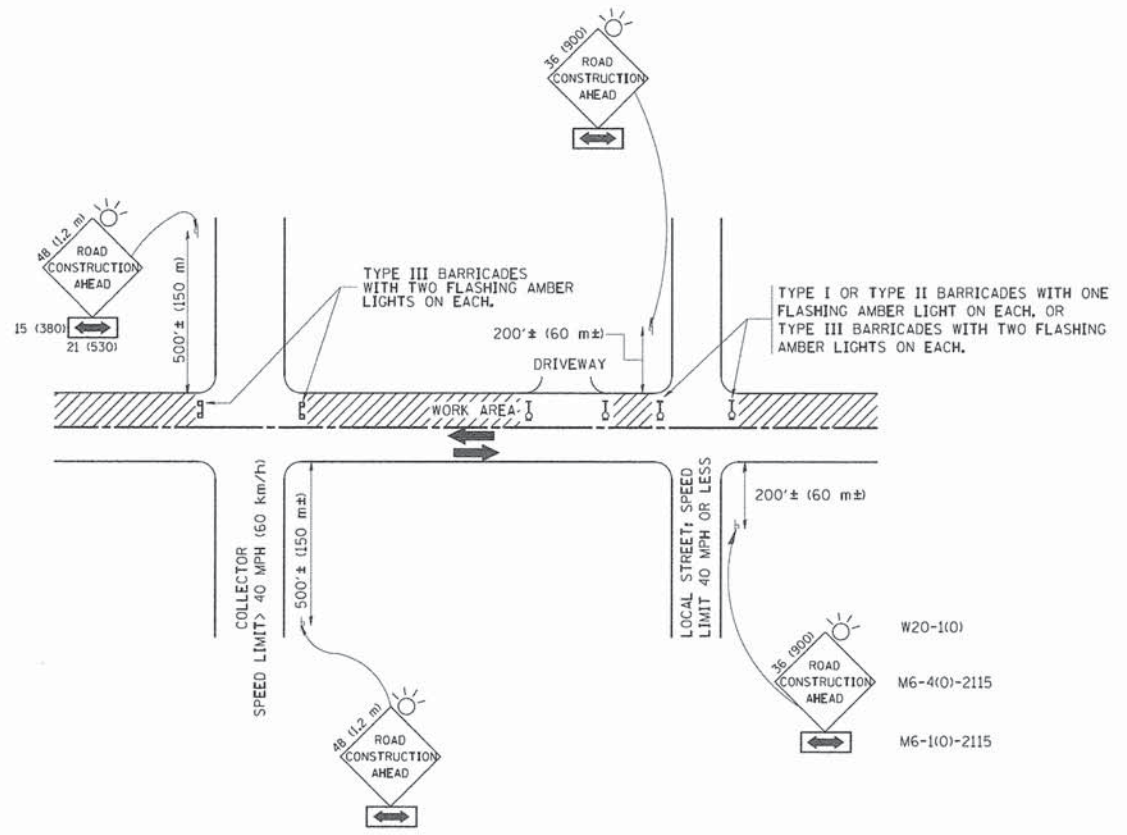
CONDUIT DETAIL		
SCALE:	SHEET NO. ___ OF ___ SHEETS	STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
361	11-00214-00-TL	KANE	47	45
CONTRACT NO. 61A36				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

5/28/2014
 PL: 2013/CX/03/08/700 GRID/STANDARD DETAIL - TC-10.dgn

TEMPORARY INFORMATION SIGNING
 SCHEDULE OF QUANTITIES

STAGE 1		
WEST APPROACH STEARNS ROAD	SO. FT.	22.5
EAST APPROACH STEARNS ROAD	SO. FT.	22.5
SB UBDESTOCK ROAD	SO. FT.	22.5
NB MCLEAN BLVD.	SO. FT.	22.5
SB MCLEAN BLVD.	SO. FT.	22.5
STAGE 2		
WEST APPROACH STEARNS ROAD	SO. FT.	22.5
EAST APPROACH STEARNS ROAD	SO. FT.	22.5
SB IL RTE. 25/DUNHAM ROAD	SO. FT.	22.5
NB IL RTE. 25	SO. FT.	22.5
NB DUNHAM ROAD	SO. FT.	22.5
TOTAL		225



TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
- SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
 - SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
 - WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:
- USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

FILE NAME = W:\dvs\std\22x34\1010.dgn	USER NAME = gaglamob	DESIGNED - LHA	REVISOR - J. OBERLE 10-18-95
		DRAWN -	REVISOR - A. HOUSEN 03-06-96
		CHECKED -	REVISOR - A. HOUSEN 10-15-96
PLOT SCALE = 50.000 1/4 IN.		DATE - 06-89	REVISOR - T. RAMMACHER 01-06-00
PLOT DATE = 1/4/2008			

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS	
SCALE: NONE	SHEET NO. 01 OF 1 SHEETS
STA. _____	TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TC-10		CONTRACT NO.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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 525 WEST MONROE
 CHICAGO IL, 60661
 312-251-3000

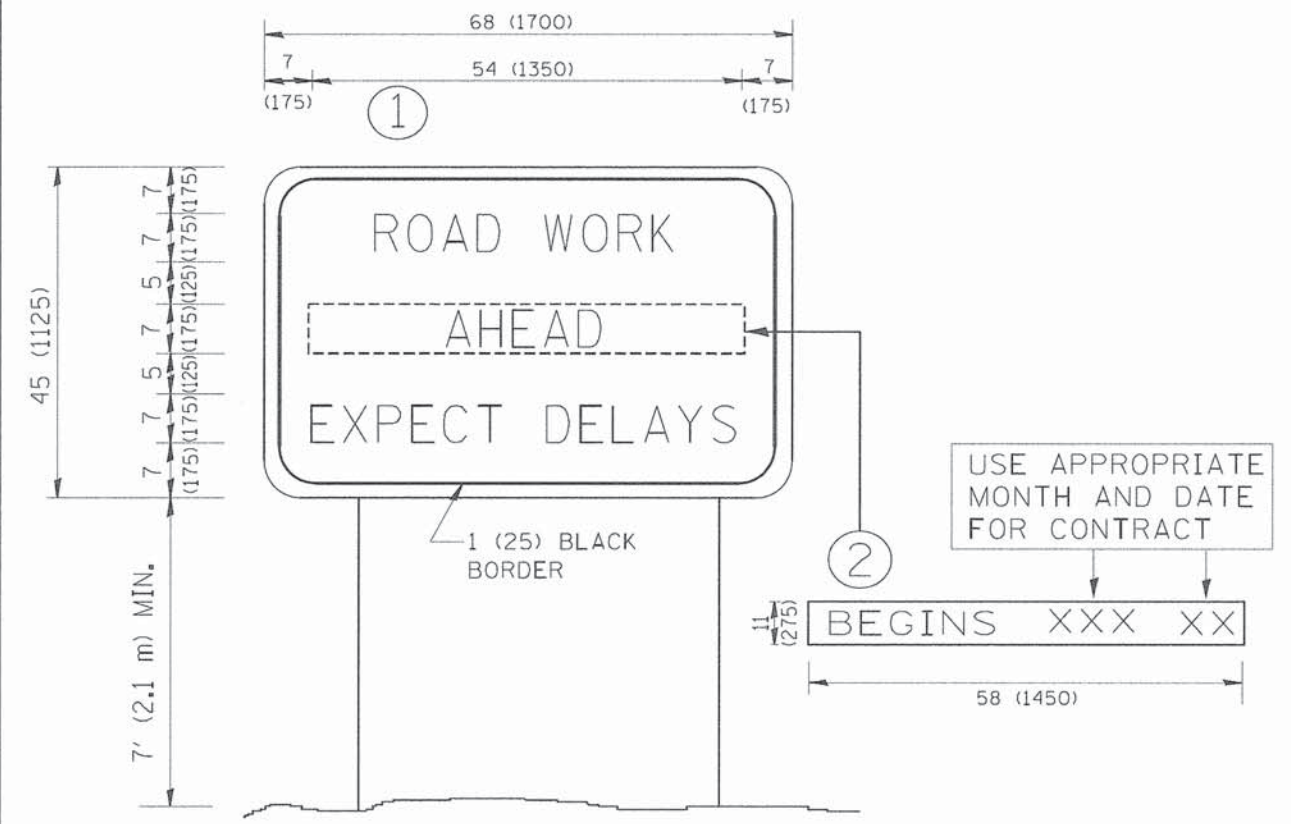
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	DRAWN - KB, DL	REVISOR - _____
	CHECKED - KG	REVISOR - _____
PLOT SCALE =	DATE - #DATE	REVISOR - _____
PLOT DATE = 5/28/2014		

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DISTRICT 1 TRAFFIC CONTROL DESIGN DETAIL TC-11	
SCALE:	SHEET NO. 01 OF 1 SHEETS
STA. _____	TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
361	11-00214-00-TL	KANE	47	46
		CONTRACT NO. 61A36		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

5/20/2014
 PL: 2013/C:\K3\988\700 - GRID STANDARD DETAIL - TC-22.dgn



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME = W:\diststd\22x34\to22.dgn	USER NAME = geglianobt	DESIGNED -	REVISED - R. MIRS 09-15-97	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ARTERIAL ROAD INFORMATION SIGN	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 58.000 "/ IN.	DRAWN -	REVISED - R. MIRS 12-11-97		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	TC-22 CONTRACT NO.		
	PLOT DATE = 1/4/2008	CHECKED -	REVISED - T. RAMMACHER 02-02-99		FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT						
				STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT 1 TRAFFIC CONTROL DESIGN DETAIL TC-22	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
					SCALE:	SHEET NO. ___ OF ___ SHEETS	STA.	TO STA.	CONTRACT NO. 61A36		
					FED. ROAD DIST. NO. - (ILLINOIS) FED. AID PROJECT						

JACOBS
 525 WEST MONROE
 CHICAGO IL, 60661
 312-251-3000

USER NAME =	DESIGNED - CH	REVISED -
	DRAWN - KB, DL	REVISED -
PLOT SCALE =	CHECKED - KG	REVISED -
PLOT DATE = 5/20/2014	DATE - #DATE	REVISED -