

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8048	15-HSRT3-00-RR	SANGAMON	8	1
C.H. 23 (WOODSIDE RD.)		ILLINOIS	CONTRACT NO. 93645	

DOT# 294328R
MP 191.07

FOR INDEX OF SHEETS, SEE SHEET NO. 2

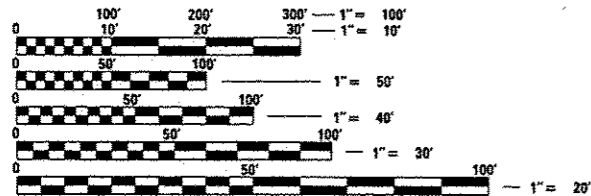
FOR LIST OF HIGHWAY STANDARDS, SEE SHEET NO. 2

**PROPOSED
HIGHWAY PLANS**
F.A.U. ROUTE 8048 (C.H. 23/WOODSIDE RD.)
SECTION 15-HSRT3-00-RR
TRAFFIC SIGNAL AND RAILROAD
INTERCONNECT IMPROVEMENTS
WOODSIDE ROAD AND IRON BRIDGE ROAD
SANGAMON COUNTY /WOODSIDE TOWNSHIP

C-96-232-15

SECTION 29
3RD P.M.

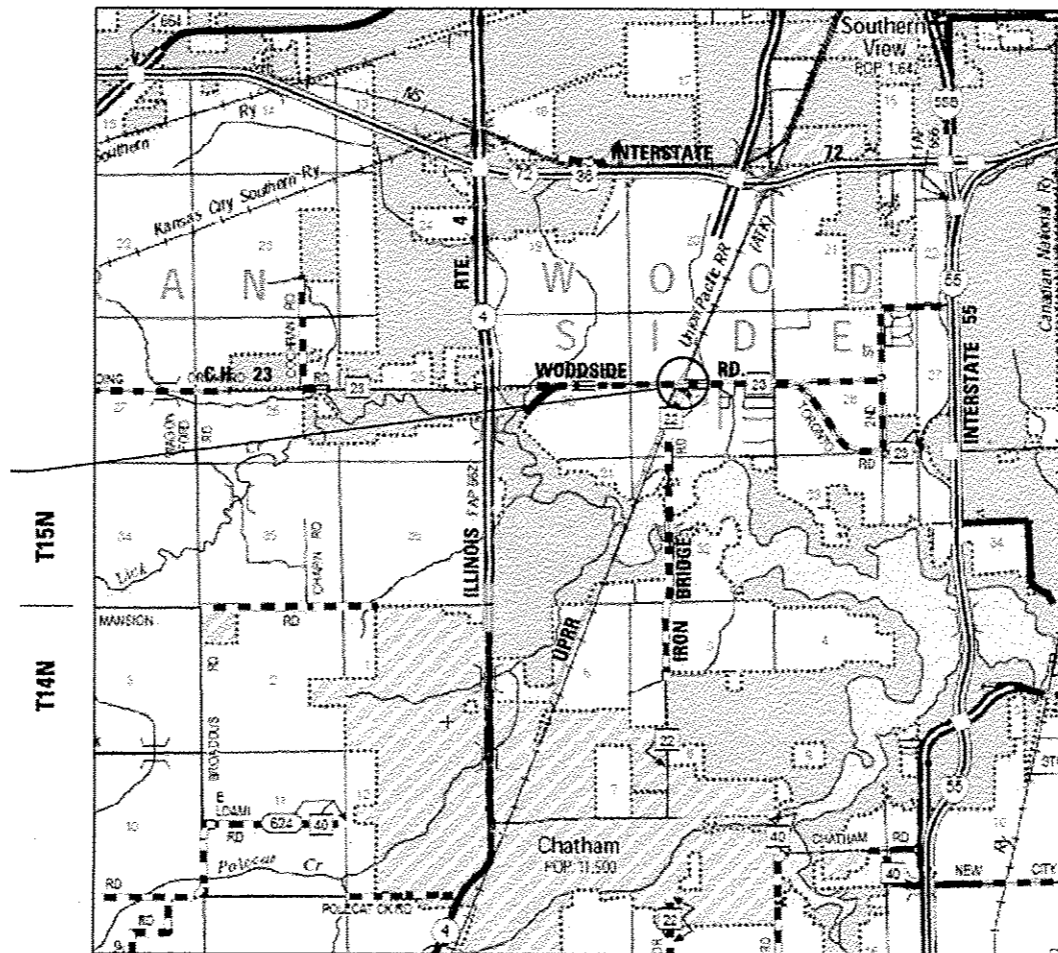
FUNCTIONAL CLASSIFICATION = URBAN MINOR ARTERIAL
2012 ADT = 11,300
DESIGN SPEED = 45 MPH
VARIANCE = NONE
P.V. = NA S.U. = NA M.U. = NA



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

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

LOCATION OF PROJECT



LOCATION MAP
NOT TO SCALE



LOCATION OF SECTION INDICATED THIS: -

PROJECT ENGINEER : JAY WAVERING (217) 785-9046

CONTRACT NO. 93645

AECOM
AECOM TECHNICAL SERVICES
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, ILLINOIS 60601
PH. 312-373-7700



DATE 10/2/15
IL REG. P.E. NO. 62-055763
EXPIRES: 11 / 30 / 2015

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
SUBMITTED December 17, 2015
Ryan Z...
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
Jan 29, 2016
Matthew M. Addis, P.E.
ENGINEER OF DESIGN AND ENVIRONMENT
Jan 29, 2016
Omer Osman, P.E.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

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7	RAILROAD PREEMPTION SEQUENCE OF OPERATIONS
8	VIDEO VEHICLE DETECTION SYSTEM INSTALLATION DETAILS

GENERAL NOTES

NO WORK SHALL COMMENCE UNTIL TRAFFIC CONTROL REQUIREMENTS ARE MET. THE CONTRACTOR SHALL DEVELOP A PLAN TO ACCOMPLISH THIS WORK AND MINIMIZE DISRUPTION OF VEHICULAR, RAIL, AND PEDESTRIAN TRAFFIC. THIS PLAN SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

ALL UTILITIES, SCHOOL DISTRICTS, LOCAL POLICE, AND FIRE DEPARTMENTS SHALL BE NOTIFIED BY THE CONTRACTOR A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION.

THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE AND MAINTAIN ACCESS TO ABUTTING PROPERTIES AT ALL TIMES DURING CONSTRUCTION OF THE PROJECT.

THE CONTRACTOR SHALL BE REQUIRED TO COMPLY WITH STATE REGULATIONS REGARDING AIR, WATER, AND NOISE POLLUTION.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL UNDERGROUND UTILITY FACILITIES. HE SHALL ALSO OBTAIN FROM THE RESPECTIVE UTILITY COMPANIES DETAILED INFORMATION RELATIVE TO THE LOCATION OF THEIR FACILITIES AND THE WORKING SCHEDULES OF THE UTILITY COMPANIES FOR THEIR MARKING OF THE EXACT LOCATION PRIOR TO CONSTRUCTION.

BEFORE STARTING ANY WORK, THE CONTRACTOR SHALL CALL "JULIE" AT 1-800-892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES (MINIMUM 48 HOURS NOTIFICATION IS REQUIRED). THE CONTRACTOR SHALL CALL THE UNION PACIFIC "CALL BEFORE YOU DIG" OPERATION AT 1-800-336-9193 FOR FIELD LOCATIONS OF UNION PACIFIC OWNED BURIED FIBER OPTIC CABLES IN UNION PACIFIC RIGHT OF WAY.

MEMBERS OF "JULIE" KNOWN TO BE WITHIN THE VICINITY OF THE IMPROVEMENT ARE:

1. SPRINT (FO)
2. AT&T (T) (FO)
3. AMEREN (G)
4. COMCAST (FO)
5. CITY OF SPRINGFIELD (E) (W)

NON-"JULIE" MEMBERS WITHIN THE VICINITY OF THE IMPROVEMENT ARE:

1. UNION PACIFIC RAILROAD COMPANY (U.P.R.R.)

THE CONTRACTOR SHALL COORDINATE WITH THE UPRR SIGNAL DEPARTMENT FOR ITEMS REMOVED OR INSTALLED BY THE UPRR SIGNAL DEPARTMENT.

U.P.R.R. FLAGGERS SHALL BE PRESENT WHEN WORKING WITHIN THE U.P.P.R. RIGHT-OF-WAY. THE CONTRACTOR SHALL COORDINATE DIRECTLY WITH THE U.P.P.R. TO ASSURE THAT FLAGGERS ARE PRESENT DURING CONSTRUCTION. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

FOR STABILIZATION, ALL TYPE III BARRICADES (WHERE NEEDED) SHALL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.

SEEDING SHALL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET OR IN AN UNTILLABLE CONDITION. THE AREAS TO BE SEEDED SHALL CONSIST OF ALL DISTURBED EARTH SURFACES WITHIN THE RIGHT-OF-WAY. LOCATIONS TO BE SEEDED WILL BE DETERMINED BY THE ENGINEER.

ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF "UNDERGROUND CONDUIT, PVC, 2" DIA.".

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUB NUMBER SHOWN IN THE LIST OF HIGHWAY STANDARDS INCLUDED ON THIS SHEET OR REFERENCED IN THESE PLANS.

THE CONTRACTOR SHALL KEEP EXISTING ADJACENT STREETS CLEAN OF DIRT, MUD, AND OTHER DEBRIS AND, WHEN NECESSARY, CLEAN SAID PAVEMENTS ON A DAILY BASIS OR WHEN DIRECTED BY THE ENGINEER. NO EXTRA COMPENSATION SHALL BE ALLOWED THE CONTRACTOR FOR THIS WORK.

THE FURNISHING, INSTALLATION, RELOCATION AND REMOVAL OF ALL TRAFFIC CONTROL SIGNS, DETOUR SIGNS, AND TRAFFIC CONTROL DEVICES SHOWN ON THE APPLICABLE IDOT TRAFFIC CONTROL STANDARDS SHALL BE PAID FOR UNDER THE PAY ITEM "TRAFFIC CONTROL AND PROTECTION (SPECIAL)". THE CONTRACTOR SHALL PROVIDE ANY ADDITIONAL SIGNS AS REQUIRED BY THE ENGINEER. THE COST OF WHICH WILL ALSO BE INCLUDED IN "TRAFFIC CONTROL AND PROTECTION (SPECIAL)".

THE SCALE SHOWN ON THE DRAWINGS APPLIES ONLY TO FULL SIZE PLANS AND NOT TO THE REDUCED SIZE PLANS. REDUCED SIZED PLANS CAN BE PRINTED TO SCALE FOR USE IN THE FIELD.

WHERE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED OF ANY SECTION OR SUB-SECTION MONUMENTS, BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER OR AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.

HIGHWAY STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
701011-04	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701701-09	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901-04	TRAFFIC CONTROL DEVICES
805001-01	ELECTRICAL SERVICE INSTALLATION DETAILS
814001-03	HANDHOLES
814006-02	DOUBLE HANDHOLES
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
857006-01	SUPERVISED RAILROAD INTERCONNECT CIRCUIT
862001-01	UNINTERRUPTABLE POWER SUPPLY (UPS)
878001-10	CONCRETE FOUNDATION DETAILS

COMMITMENTS

NONE.
August 21, 2015

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL
NOTES AND COMMITMENTS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8048	15-HSRT3-00-RR	SANGAMON	8	2
C.H. 23 (WOODSIDE RD.)			CONTRACT NO. 93645	
ILLINOIS FED. AID PROJECT				

SCALE: NTS SHEET 1 OF 1 SHEETS STA. TO STA.



SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONST. CODE
				TRAFFIC SIGNALS 294328R
				100% FRA
				0021
67100100	MOBILIZATION	L SUM	1	1
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1
72000100	SIGN PANEL - TYPE 1	SQ FT	10	10
81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	189	189
87301715	ELECTRIC CABLE IN CONDUIT, COMMUNICATION, NO. 18 6 PAIR	FOOT	493	493
87301750	ELECTRIC CABLE IN CONDUIT, RAILROAD, NO. 14 3C	FOOT	235	235
87900200	DRILL EXISTING HANDHOLE	EACH	3	3
89502215	MODIFY EXISTING CONTROLLER FOUNDATION	EACH	1	1
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	643	643
89502350	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	188	188
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1	1
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	1	1
X8571215	RAILROAD, FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1	1
X8620200	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL	EACH	1	1
X8950105	REMOVE EXISTING TRAFFIC CONTROLLER AND CABINET	EACH	1	1
Z0033072	VIDEO VEHICLE DETECTION SYSTEM	EACH	1	1
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1

* =SPECIALTY ITEM



USER NAME : *USER*	DESIGNED - MRF	REVISED -
	DRAWN - MRF	REVISED -
PLOT SCALE : *SCALE*	CHECKED - MJL	REVISED -
PLOT DATE : *DATE*	DATE - 10-02-15	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8048	15-HSRT3-00-RR	SANGAMON	8	3
C.H. 23 (WOODSIDE RD.)		CONTRACT NO. 93645		

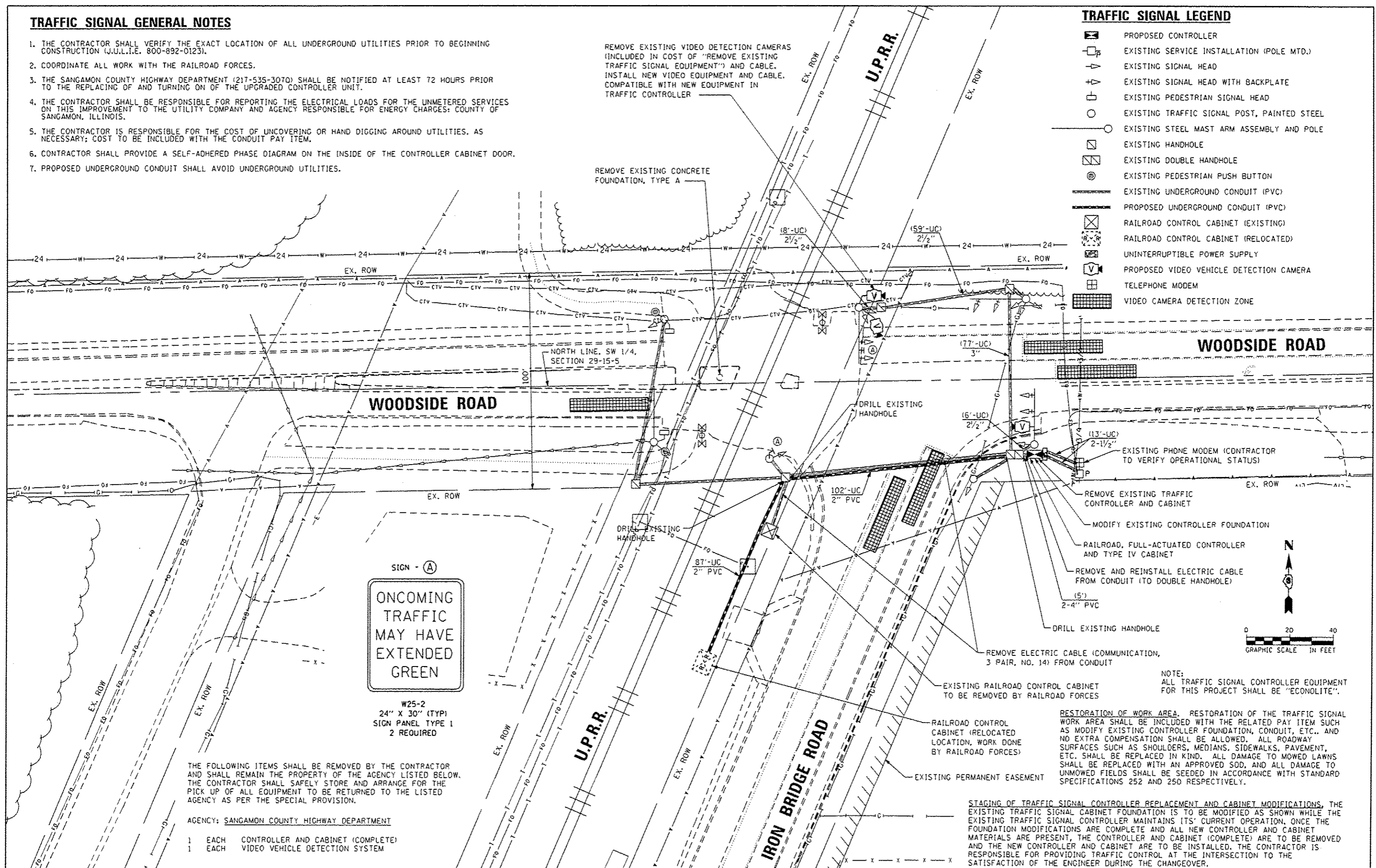
ILLINOIS FED. AID PROJECT

TRAFFIC SIGNAL GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING CONSTRUCTION (J.U.L.I.E. 800-892-0123).
2. COORDINATE ALL WORK WITH THE RAILROAD FORCES.
3. THE SANGAMON COUNTY HIGHWAY DEPARTMENT (217-535-3070) SHALL BE NOTIFIED AT LEAST 72 HOURS PRIOR TO THE REPLACING OF AND TURNING ON OF THE UPGRADED CONTROLLER UNIT.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPORTING THE ELECTRICAL LOADS FOR THE UNMETERED SERVICES ON THIS IMPROVEMENT TO THE UTILITY COMPANY AND AGENCY RESPONSIBLE FOR ENERGY CHARGES; COUNTY OF SANGAMON, ILLINOIS.
5. THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF UNCOVERING OR HAND DIGGING AROUND UTILITIES, AS NECESSARY; COST TO BE INCLUDED WITH THE CONDUIT PAY ITEM.
6. CONTRACTOR SHALL PROVIDE A SELF-ADHERED PHASE DIAGRAM ON THE INSIDE OF THE CONTROLLER CABINET DOOR.
7. PROPOSED UNDERGROUND CONDUIT SHALL AVOID UNDERGROUND UTILITIES.

TRAFFIC SIGNAL LEGEND

- PROPOSED CONTROLLER
- EXISTING SERVICE INSTALLATION (POLE MTD.)
- EXISTING SIGNAL HEAD
- EXISTING SIGNAL HEAD WITH BACKPLATE
- EXISTING PEDESTRIAN SIGNAL HEAD
- EXISTING TRAFFIC SIGNAL POST, PAINTED STEEL
- EXISTING STEEL MAST ARM ASSEMBLY AND POLE
- EXISTING HANDHOLE
- EXISTING DOUBLE HANDHOLE
- EXISTING PEDESTRIAN PUSH BUTTON
- EXISTING UNDERGROUND CONDUIT (PVC)
- PROPOSED UNDERGROUND CONDUIT (PVC)
- RAILROAD CONTROL CABINET (EXISTING)
- RAILROAD CONTROL CABINET (RELOCATED)
- UNINTERRUPTIBLE POWER SUPPLY
- PROPOSED VIDEO VEHICLE DETECTION CAMERA
- TELEPHONE MODEM
- VIDEO CAMERA DETECTION ZONE



W25-2
 24" X 30" (TYP)
 SIGN PANEL TYPE 1
 2 REQUIRED
ONCOMING TRAFFIC MAY HAVE EXTENDED GREEN

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR THE PICK UP OF ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE SPECIAL PROVISION.

- AGENCY: SANGAMON COUNTY HIGHWAY DEPARTMENT
- 1 EACH CONTROLLER AND CABINET (COMPLETE)
 - 1 EACH VIDEO VEHICLE DETECTION SYSTEM

NOTE: ALL TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE".

RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED WITH THE RELATED PAY ITEM SUCH AS MODIFY EXISTING CONTROLLER FOUNDATION, CONDUIT, 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.

STAGING OF TRAFFIC SIGNAL CONTROLLER REPLACEMENT AND CABINET MODIFICATIONS. THE EXISTING TRAFFIC SIGNAL CABINET FOUNDATION IS TO BE MODIFIED AS SHOWN WHILE THE EXISTING TRAFFIC SIGNAL CONTROLLER MAINTAINS ITS' CURRENT OPERATION. ONCE THE FOUNDATION MODIFICATIONS ARE COMPLETE AND ALL NEW CONTROLLER AND CABINET MATERIALS ARE PRESENT, THE CONTROLLER AND CABINET (COMPLETE) ARE TO BE REMOVED AND THE NEW CONTROLLER AND CABINET ARE TO BE INSTALLED. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING TRAFFIC CONTROL AT THE INTERSECTION TO THE SATISFACTION OF THE ENGINEER DURING THE CHANGEOVER.

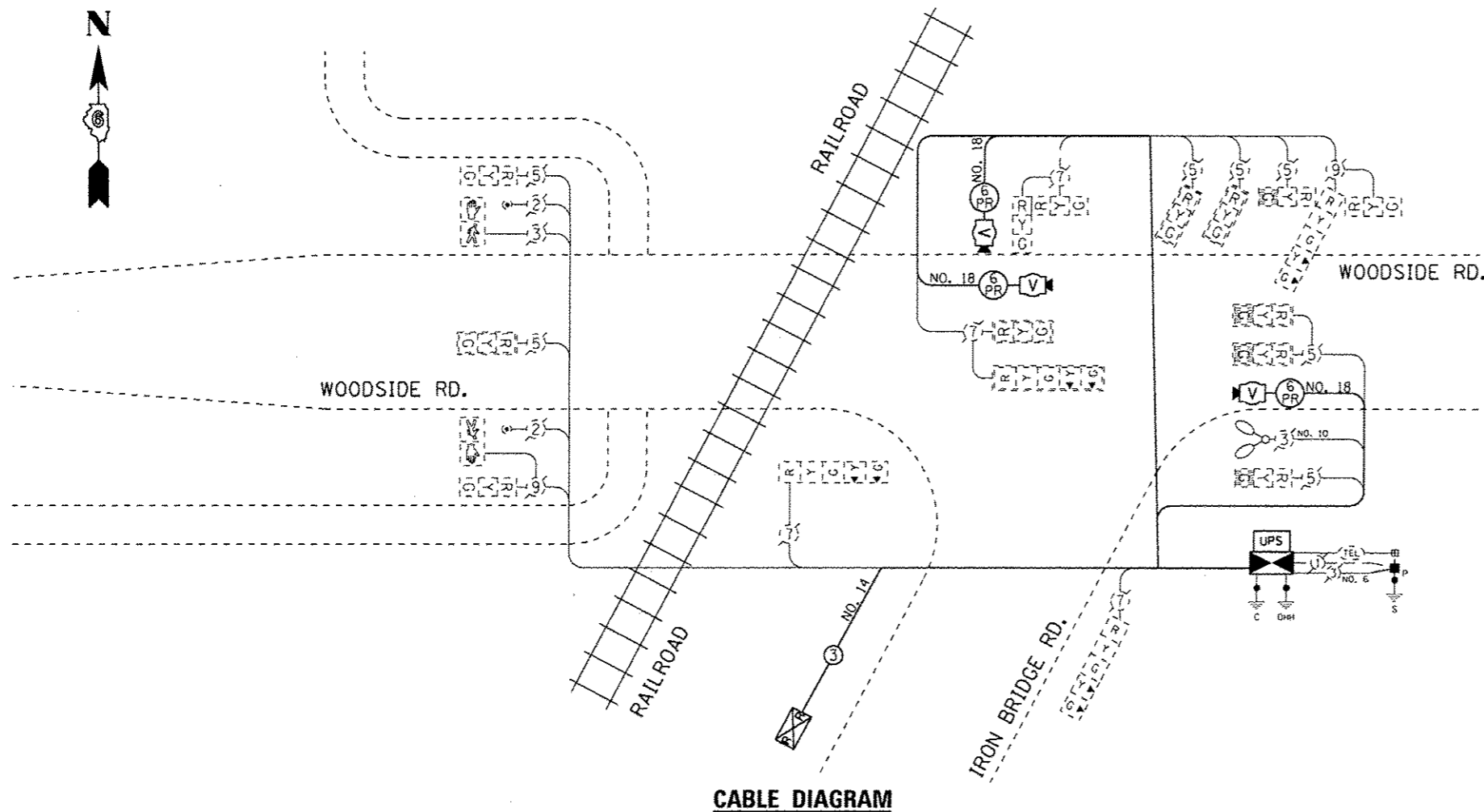


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PLOT SCALE : #SCALE#	DRAWN - MRF	REVISED -
PLOT DATE : #DATE#	CHECKED - MJL	REVISED -
	DATE - 01-28-16	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL PLAN
WOODSIDE ROAD AND IRON BRIDGE ROAD

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8048	15-HSRTJ-00-RR	SANGAMON	8	4
C.H. 23 (WOODSIDE RD.)			CONTRACT NO. 93645	



CABLE DIAGRAM

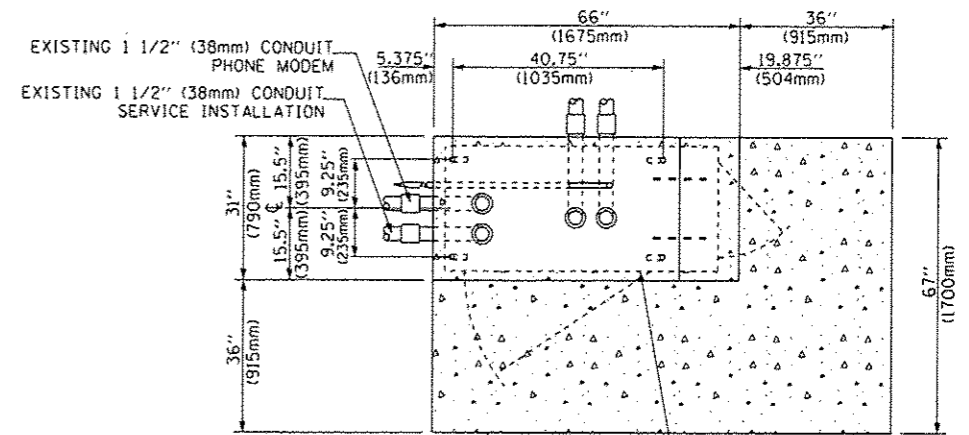
NOTES:

- FURNISH AND INSTALL A 20 AMP, 2 POLE, 240VAC, 10,000 A/C AT 240VAC CIRCUIT BREAKER FOR LIGHTING, A 20 AMP, 1 POLE, 120VAC, 10,000 A/C AT 120VAC CIRCUIT BREAKER FOR DUPLEX RECEPTACLES, AND A U.L. LISTED GROUNDING THREE-WIRE, 120VAC, 20 AMP GROUND FAULT INTERRUPTER TYPE DUPLEX RECEPTACLE (NEMA 5-20R) ALL LOCATED IN THE CONTROLLER CABINET.
- CONTROLLER SPECIFIED: FULL-ACTUATED CONTROLLER, STANDARD SEQUENCE II, 8 PHASE, IN TYPE IV "SUPER P" CABINET (ECONOLITE).
- THE TRAFFIC SIGNAL CONTROLLER SHALL HAVE REMOTE MONITORING CAPABILITIES INCLUDING ALL NECESSARY PERIPHERAL HARDWARE SUCH AS A PHONE MODEM, INTERSECTION MONITOR, ETC. TO ALLOW FOR BOTH REMOTE DIAL-IN ACCESS AND AUTOMATIC CONTROLLER DIAL-OUT REPORTING OF ALARMS. THE COST OF THE NECESSARY ADDITIONAL HARDWARE SHALL BE INCLUDED IN THE UNIT PRICE FOR "RAILROAD, FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL."

CABLE DIAGRAM LEGEND

NOTE: ALL ITEMS ARE EXISTING TO REMAIN UNLESS OTHERWISE STATED.

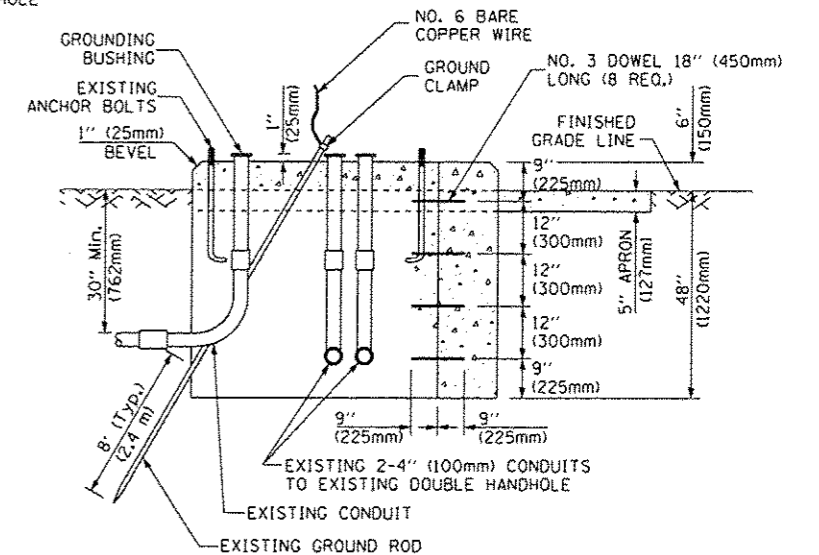
- | | | | |
|--|---|--|---|
| | DENOTES NUMBER OF CONDUCTORS (EXISTING) ALL CABLE NO. 14 (UNLESS OTHERWISE NOTED) | | PEDESTRIAN PUSHBUTTON |
| | GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN) | | UPGRADED VIDEO VEHICLE DETECTION SYSTEM CAMERA |
| | SERVICE INSTALLATION, POLE MTD. | | SIGNAL SECTION, 12" |
| | UPGRADED CONTROLLER AND CABINET | | SIGNAL SECTION WITH GEOMETRICALLY PROGRAMMED LOUVER |
| | PROPOSED UNINTERRUPTIBLE POWER SUPPLY | | WALK/DON'T WALK SECTION |
| | RELOCATED RAILROAD CONTROL CABINET | | TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC |
| | GROUND ROD AT POST (P), MAST ARM (MA), CONTROLLER (C), HANDHOLE (HH), DOUBLE HANDHOLE (DHH) OR SERVICE INSTALLATION (S) | | EXISTING MAST ARM MOUNTED LIGHT FIXTURE |
| | | | EXISTING PHONE MODEM |



NOTE:

TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE

TOP VIEW



MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION FOR GROUND MOUNTED SUPER P (TYPE IV) AND SUPER R (TYPE V) CONTROLLER CABINETS

SEE TRAFFIC SIGNAL PLAN FOR NOTES REGARDING THE STAGING OF TRAFFIC SIGNAL CONTROLLER REPLACEMENT AND CABINET FOUNDATION MODIFICATIONS.

SCHEDULE OF QUANTITIES

PAY ITEM	UNITS	QNTY.
MOBILIZATION	L SUM	1
TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1
TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1
SIGN PANEL - TYPE 1	SQ FT	10
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	189
ELECTRIC CABLE IN CONDUIT, COMMUNICATION, NO. 18 6 PAIR	FOOT	493
ELECTRIC CABLE IN CONDUIT, RAILROAD, NO. 14 3C	FOOT	235
DRILL EXISTING HANDHOLE	EACH	3
MODIFY EXISTING CONTROLLER FOUNDATION	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	643
REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	188
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	1
RAILROAD, FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
UNINTERRUPTIBLE POWER SUPPLY, SPECIAL	EACH	1
REMOVE EXISTING TRAFFIC CONTROLLER AND CABINET	EACH	1
VIDEO VEHICLE DETECTION SYSTEM	EACH	1
RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1



USER NAME : #USER#	DESIGNED - MRF	REVISED -
PLLOT SCALE : #SCALE#	DRAWN - MRF	REVISED -
PLLOT DATE : #DATE#	CHECKED - MJL	REVISED -
	DATE - 10-02-15	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL CABLE PLAN AND SCHEDULE OF QUANTITIES
WOODSIDE ROAD AND IRON BRIDGE ROAD

F.A.U. RTE. 8048	SECTION 15-HSRT3-00-RR	COUNTY SANGAMON	TOTAL SHEETS 8	SHEET NO. 5
C.M. 23 (WOODSIDE RD.)		CONTRACT NO. 93645		
ILLINOIS FED. AID PROJECT				

SCALE: NTS SHEET 1 OF 1 SHEETS STA. TO STA.

SEQUENCE OF OPERATION

MOVEMENT															FLASH	
	1 + 6			2 + 6					3			4				
	1	2	3	4	5A	5B	5C	5D	6	7	8	9	10	11		
CHANGE TO	2 + 6			3 OR 4					1 + 6 2 + 6 4			1 + 6 2 + 6				
WOODSIDE ROAD (EAST OF TRACKS) ALL SIGNALS	E/B	R	R	R	G	G	G	Y	R	R	R	R	R	R	R	R
WOODSIDE ROAD (WEST OF TRACKS) ALL SIGNALS	E/B	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R
WOODSIDE ROAD NEAR AND FAR RIGHT AND RIGHT MAST ARM SIGNALS	W/B	G	G	G	G	G	G	Y	R	R	R	R	R	R	R	R
WOODSIDE ROAD LEFT MAST ARM AND FAR LEFT SIGNALS	W/B			G	G	G	G	Y	R	R	R	R	R	R	R	R
IRON BRIDGE ROAD FAR LEFT AND MAST ARM SIGNALS	N/B	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	R
IRON BRIDGE ROAD NEAR AND FAR RIGHT SIGNALS	N/B			R	R	R	R	R	R	R	R	R	G	Y	R	R
PEDESTRIAN SIGNALS CROSSING WOODSIDE ROAD WEST OF IRON BRIDGE ROAD		H	H	H	H	H	H	H	H	•P	••FH	H	H	H	H	DARK

PHASE 2 + 6 SHALL BE PLACED ON RECALL

- = TO APPEAR ONLY UPON PUSHBUTTON ACTUATION
- = FLASHING "DON'T WALK" IS TO TERMINATE AT THE COMPLETION OF THE PEDESTRIAN INTERVAL CLEARANCE.

P = ILLUMINATED PERSON = WALK

FH = ILLUMINATED FLASHING HAND = FLASHING DON'T WALK

H = ILLUMINATED SOLID HAND = DON'T WALK



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PLOT DATE : #DATE#	DATE - 10-02-15	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL SEQUENCE OF OPERATION
WOODSIDE ROAD AND IRON BRIDGE ROAD**

SCALE: NTS SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8048	15-HSRT3-00-RR	SANGAMON	8	6
C.H. 23 (WOODSIDE RD.)			CONTRACT NO. 93645	
ILLINOIS FED. AID PROJECT				

RAILROAD PREEMPTION SEQUENCE OF OPERATION

									PREEMPTOR NUMBER 2					CLEAR TO NORMAL SEQUENCE
	1		4		6		9		2	3	4	5		
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER														
CHANGE FROM EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER														
RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1A	1B	1C	1D	1E	1F	1G	1H	2	3	4	5		
CHANGE TO RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1B	2	1D	2	1F	2	1H	2	3	4	5			
WOODSIDE ROAD (EAST SIDE OF TRACKS) ALL SIGNALS E/B	R	R	G	G	R	R	R	R	G	Y	R	R	△	
WOODSIDE ROAD (WEST SIDE OF TRACKS) ALL SIGNALS E/B	R	R	Y	R	R	R	R	R	R	R	R	R	△	
WOODSIDE ROAD NEAR AND FAR RIGHT AND RIGHT MAST ARM SIGNALS W/B	Y	R	Y	R	R	R	R	R	R	R	R	R	△	
WOODSIDE ROAD LEFT MAST ARM AND FAR LEFT SIGNALS W/B	Y	R	Y	R	R	R	R	R	R	R	R	R _G	△	
IRON BRIDGE ROAD FAR LEFT AND MAST ARM SIGNALS N/B	R	R	R	R	R	R	Y	R	R	R	R	R	△	
IRON BRIDGE ROAD NEAR AND FAR RIGHT SIGNALS N/B	R _Y	R	R	R	R	R	Y	R	R	R	R	R _G	△	
PEDESTRIAN SIGNALS CROSSING WOODSIDE ROAD WEST OF IRON BRIDGE ROAD	H	H	H	H	FH	H	H	H	H	H	H	H	△	

HOLD

FH = ILLUMINATED FLASHING HAND = FLASHING DON'T WALK

H = ILLUMINATED SOLID HAND = DON'T WALK

△ = RAILROAD PREEMPTION SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION AFTER RAILROAD INTERVAL 5 IS TERMINATED.

NOTES:

1. ONCE PREEMPTION HAS BEEN CALLED, THE TRACK CLEAR SIGNAL DISPLAY SHALL APPEAR IMMEDIATELY AFTER ALL NECESSARY VEHICULAR CLEARANCES HAVE BEEN PROVIDED.
2. RAILROAD PREEMPTION WILL TERMINATE ACTIVE PEDESTRIAN PHASES IMMEDIATELY. PEDESTRIAN CLEARANCES WILL BE ABBREVIATED.
3. THE RAILROAD PREEMPTION SEQUENCE OF OPERATION SHALL HAVE PRIORITY OVER ALL OTHER SEQUENCES OF OPERATION.



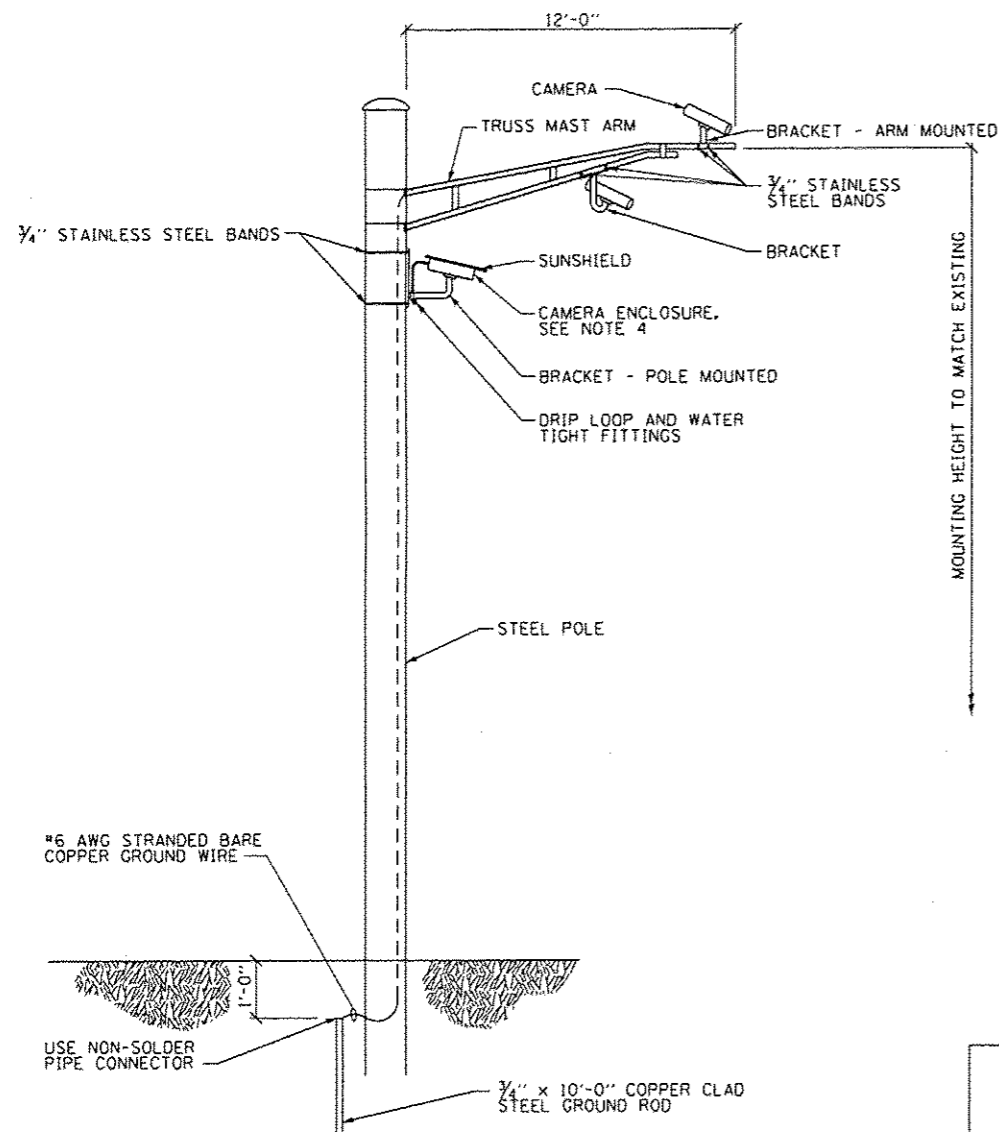
USER NAME : *USER*	DESIGNED - MRF	REVISED -
	DRAWN - MRF	REVISED -
PLOT SCALE : *SCALE*	CHECKED - MJL	REVISED -
PLOT DATE : *DATE*	DATE - 10-02-15	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RAILROAD PREEMPTION SEQUENCE OF OPERATION
WOODSIDE ROAD AND IRON BRIDGE ROAD**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8048	15-HSRT3-00-RR	SANGAMON	8	7
C.H. 23 (WOODSIDE RD.)			CONTRACT NO. 93645	
ILLINOIS FED. AID PROJECT				

SCALE: NTS SHEET 2 OF 2 SHEETS STA. TO STA.



ARM MOUNTED OR POLE MOUNTED CAMERA

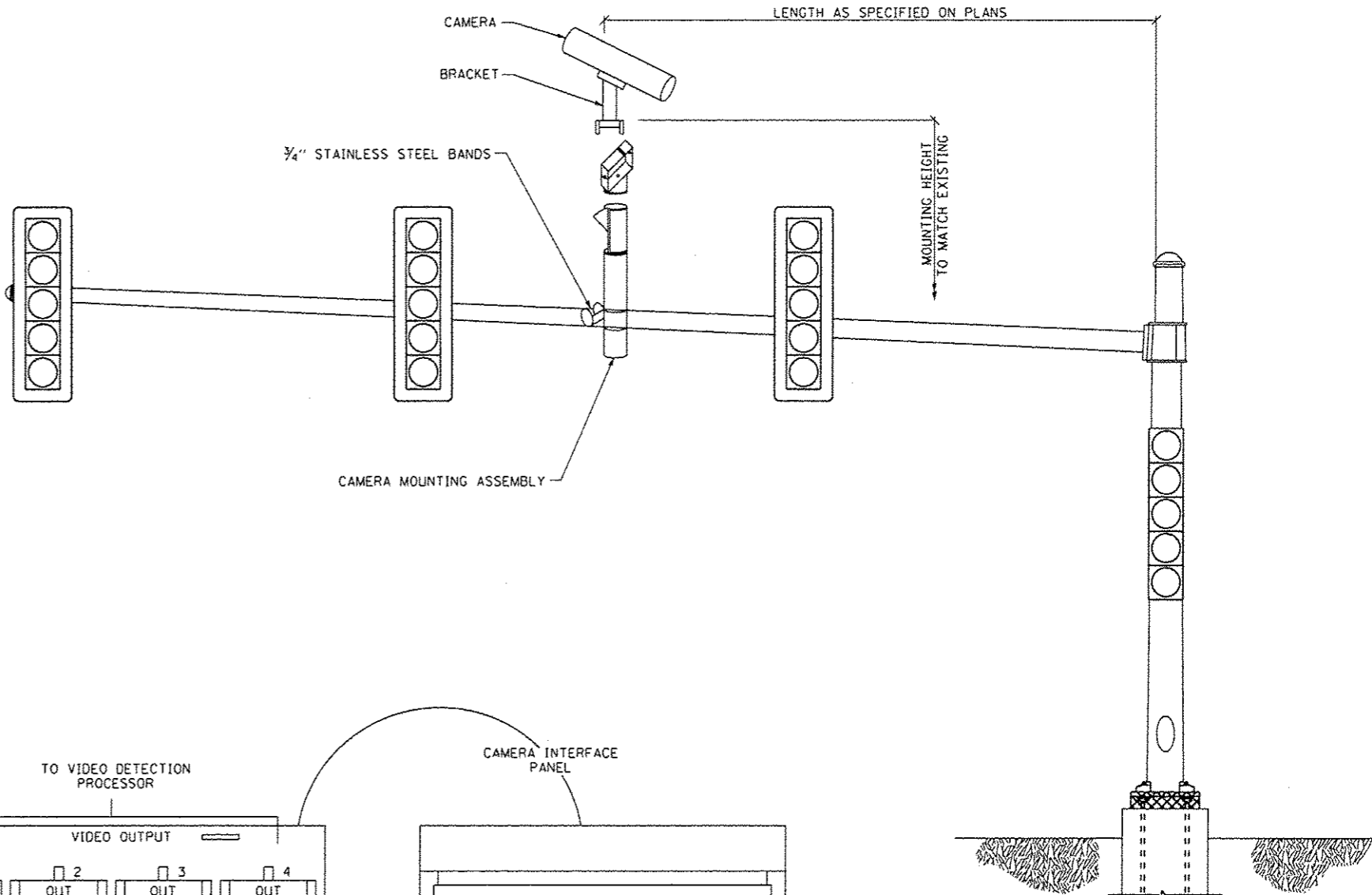
SCALE: NONE

NOTES:

1. MOUNT LUMINAIRE MOUNTING BRACKET AS HIGH AS POSSIBLE.
2. AIM BRACKET TOWARD DIRECTION OF TRAFFIC TO BE DETECTED.
3. MOUNT VIDEO VEHICLE DETECTOR AIMING DOWN AT 15 DEGREE ANGLE.
4. CAMERA CAN BE ROTATED INSIDE THE ENCLOSURE AFTER INSTALLATION, TO ALIGN HORIZON AT HORIZONTAL PLANE.

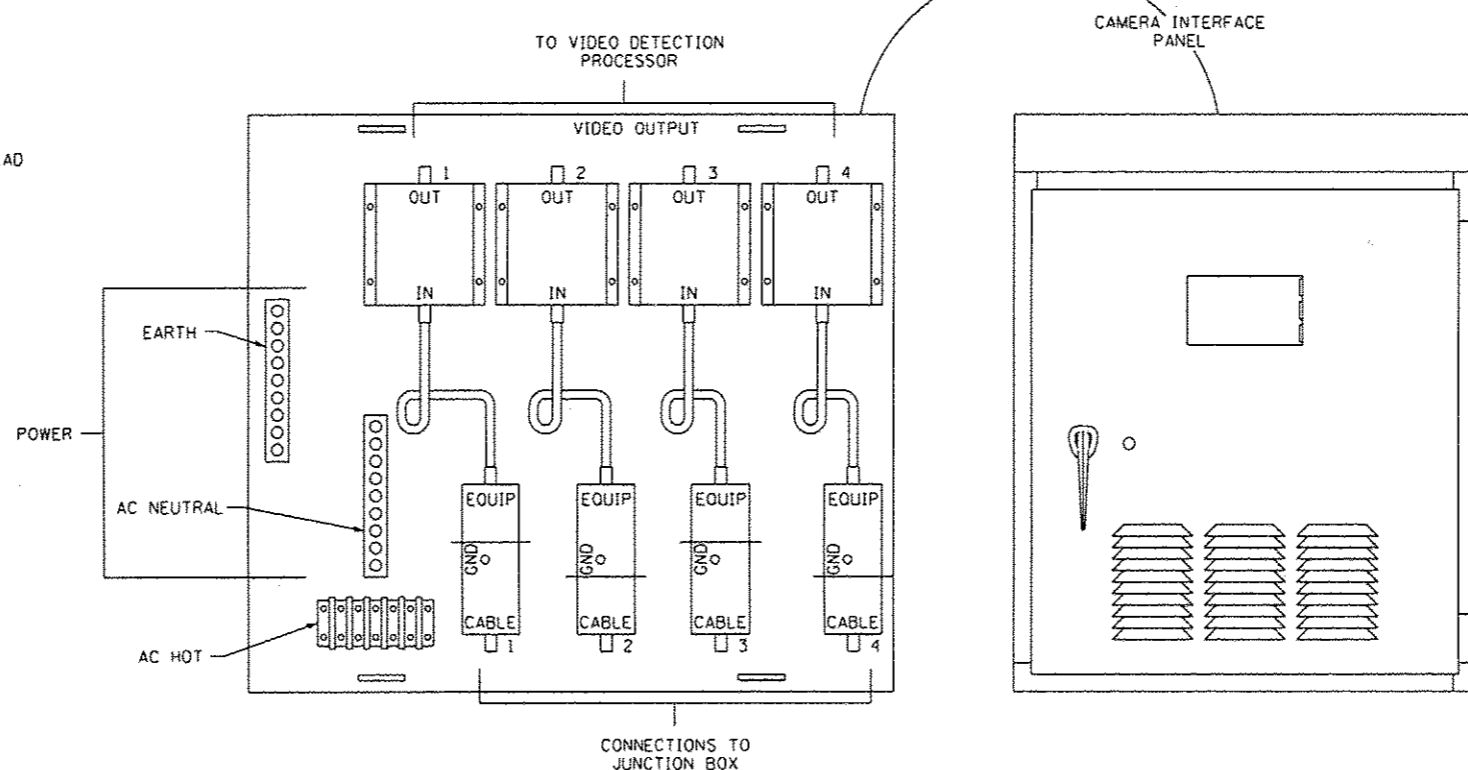
WARNING:

1. AIMING THE VIDEO VEHICLE DETECTOR AT DIRECT SUNLIGHT WILL CAUSE PERMANENT DAMAGE TO THE VIDEO VEHICLE DETECTOR.



MAST ARM MOUNTED CAMERA

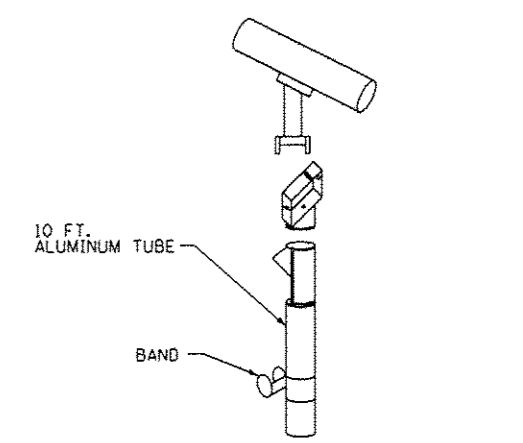
SCALE: NONE



POWER CABLE TO EACH IMAGE SENSOR (24 VAC)
6 PAIR CABLE FROM IMAGE SENSOR TO CABINET
SIGNAL AND POWER CABLE TERMINATIONS
(MANUFACTURER'S REPRESENTATIVE TO ASSIST)

VIDEO VEHICLE DETECTION SYSTEM INSTALLATION DETAIL

SCALE: NONE



CAMERA MOUNTING ASSEMBLY



USER NAME : #USER#	DESIGNED - MRF	REVISED -
PLOT SCALE : #SCALE#	DRAWN - MRF	REVISED -
PLOT DATE : #DATE#	CHECKED - MJL	REVISED -
	DATE - 10-02-15	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

VIDEO VEHICLE DETECTION SYSTEM INSTALLATION DETAILS		
WOODSIDE ROAD AND IRON BRIDGE ROAD		
SCALE: NTS	SHEET 1 OF 1 SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8048	15-HSRT3-00-RR	SANGAMON	8	8
C.H. 23 (WOODSIDE RD.)			CONTRACT NO. 93645	
ILLINOIS FED. AID PROJECT				