

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	D4 MAST ARM REPLACEMENT 2023-1	PEORIA	17	1
		ILLINOIS	CONTRACT NO. 68H56	

D-94-033-23

INDEX OF SHEETS:  
SEE SHEET 2 FOR INDEX OF SHEETS

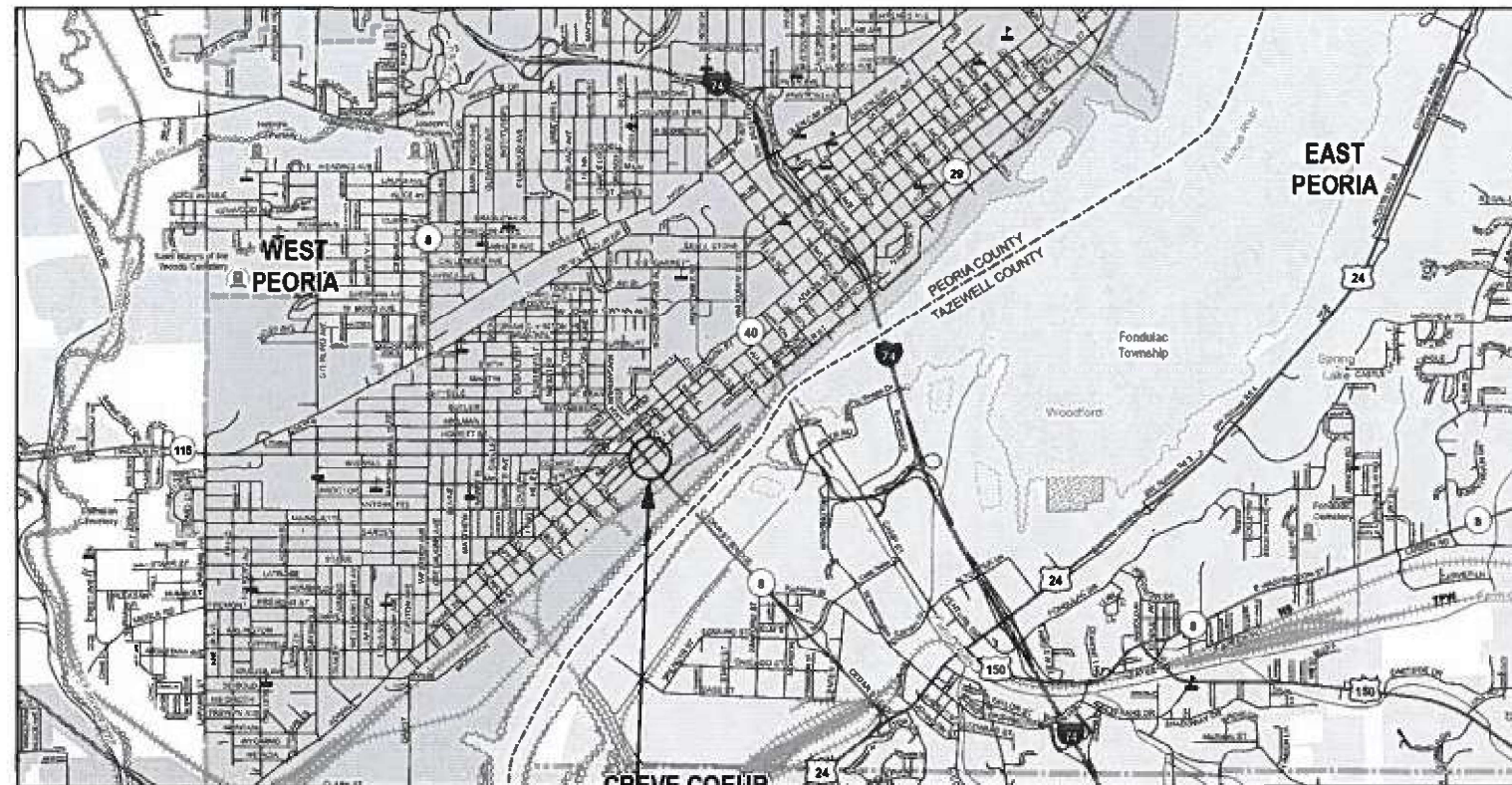
PROPOSED  
HIGHWAY PLANS

ROUTE FAP 669 (IL 8 /IL 116)  
D4 MAST ARM REPLACEMENT 2023-1  
PEORIA COUNTY  
PROJECT NO. NHPP-6Z7E(825)  
C-94-039-23



HIGHWAY STANDARDS:  
SEE SHEET 2 FOR A LIST OF  
APPLICABLE HIGHWAY STANDARDS

PROJECT DESCRIPTION:  
TRAFFIC SIGNAL MAST ARM  
REPLACEMENT AT IL 8/IL 116  
(MACARTHUR HWY.) &  
WASHINGTON ST. IN PEORIA



IL 8/ IL 116 (MACARTHUR HWY.)  
& SW WASHINGTON ST.

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

PROJECT ENGINEER : TREVOR HANSON (309) 671-4474  
PROJECT MANAGER : ERIC HOWALD (309) 671-4481  
CATALOG NO. 036382-00D  
CONTRACT NO. 68H56

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED December 15 2022  
[Signature]  
REGIONAL ENGINEER

February 3, 2023  
[Signature]  
ENGINEER OF DESIGN AND ENVIRONMENT

February 3, 2023  
[Signature]  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

NO COMMITMENTS HAVE BEEN MADE IN CONJUNCTION WITH THIS PROJECT.

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16	PEDESTRIAN PUSHBUTTON POST DETAIL
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HIGHWAY STANDARDS	
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH & FOOT
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720016-04	MAST ARM MOUNTED STREET NAME SIGNS
814001-03	HANDHOLES
814006-03	DOUBLE HANDHOLES
821101-02	LUMINARE WIRING IN POLE
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
877001-08	STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
877011-10	STEEL COMB. MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
878001-11	CONCRETE FOUNDATION DETAILS
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS

TRAFFIC SIGNAL CONSTRUCTION STAGING NOTES	
1.	THE CONTRACTOR WILL BE ALLOWED TO PLACE THE INTERSECTION INTO ALL-RED FLASH MODE TO FACILITATE THE INSTALLATION OF THE PROPOSED TRAFFIC SIGNAL MAST ARMS, POSTS, SIGNAL HEADS, ELECTRICAL CABLE AND OTHER COMPONENTS.
2.	THE CONTRACTOR SHALL FURNISH AND INSTALL A MINIMUM OF TWO STOP SIGNS PER APPROACH WHEN THE INTERSECTION IS OPERATING IN ALL-RED FLASH MODE. THE TRAFFIC SIGNALS MAY BE PLACED INTO ALL-RED FLASH MODE BETWEEN THE HOURS OF 8:30AM AND 3:00PM ONLY.
3.	THE CONTRACTOR SHALL RESTORE THE TRAFFIC SIGNALS TO NORMAL OPERATION AT ALL OTHER TIMES, UNLESS SPECIFICALLY DIRECTED OTHERWISE BY THE ENGINEER.
4.	THE CONTRACTOR WILL BE ALLOWED TO PLACE THE INTERSECTION INTO FLASH FOR A MAXIMUM OF FIVE DAYS PER EACH LOCATION.
5.	THE CONTRACTOR WILL BE ALLOWED TO MAKE TEMPORARY SPLICES AS NEEDED TO FACILITATE THE INSTALLATION OF THE PROPOSED TRAFFIC SIGNAL EQUIPMENT.
6.	ALL COSTS (LABOR, MATERIALS, AND EQUIPMENT) ASSOCIATED WITH THESE REQUIREMENTS SHALL BE INCLUDED IN THE CONTRACT BID PRICE. THERE WILL BE NO ADDITIONAL COMPENSATION FOR ITEMS REQUIRED TO IMPLEMENT STAGING, INCLUDING, BUT NOT LIMITED TO, TEMPORARY CABLE SPLICES, TEMPORARY TRAFFIC POSTS, AND PREMIUM TIME HOURS.

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USER NAME = Trevor.Hanson	DESIGNED -	REVISED -
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PLOT SCALE = 23,8272 * / in.	CHECKED -	REVISED -
PLOT DATE = 12/15/2022	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**COMMITMENTS, INDEX OF SHEETS, HIGHWAY STANDARDS, &  
TRAFFIC SIGNAL CONSTRUCTION STAGING NOTES**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	D4 MAST ARM REPLACEMENT 2023-1	PEORIA	17	2
CONTRACT NO. 68H56				
ILLINOIS FED. AID PROJECT				

STATUS OF UTILITIES					
COMPANY	CONTACT	TYPE OF UTILITY	TYPE OF CONFLICT	LOCATION	DISPOSITION
AT&T	WILLIAM CONOVER 8515 N INDUSTRIAL RD. PEORIA, IL 61615	COMMUNICATIONS (AERIAL)	MAST ARM	PROPOSED MA-2, MA-4	CAUTION
AMEREN	ELIZABETH COOKE 7064 W ROUTE 150 EDWARDS, IL 61528	GAS	UNDERGROUND CONDUIT, MAST ARM	PROPOSED MA-2	CAUTION
GREATER PEORIA SANITARY DISTRICT	JOHN BOYLE 2322 S DARST ST. PEORIA, IL 61607	STORM SEWER & SANITARY SEWER	UNDERGROUND CONDUIT	ALL QUADRANTS	CAUTION
ILLINOIS AMERICAN WATER	CHARLES BARTON 7500 N. HARKER DR. PEORIA, IL 61615	WATER LINE/ FIRE HYDRANT	UNDERGROUND CONDUIT, PEDESTRIAN PUSHBUTTON POST	ALL QUADRANTS	CAUTION
UTILITY DEPTHS TO BE DETERMINED THROUGH UTILITY LOCATES AND POT HOLING					

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	D4 MAST ARM REPLACEMENT 2023-1	PEORIA	17	3
CONTRACT NO. 68H56			ILLINOIS FED. AID PROJECT	



**CONSTRUCTION NOTES**

1.	THE LOCATION OF ALL UTILITIES AND PRIVATELY OWNED FACILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO THE INSTALLATION OF ANY COMPONENTS.
2.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING EXISTING IDOT ELECTRICAL FACILITIES AT HIS/HER OWN EXPENSE IF REQUIRED. THE CONTRACTOR SHALL ALSO BE LIABLE FOR ANY DAMAGE TO IDOT FACILITIES RESULTING FROM INACCURATE LOCATING.
3.	ELECTRICAL WORK SHALL CONFORM WITH NATIONAL, STATE, AND LOCAL CODES.
4.	THE LOCATIONS FOR HANDHOLES AND CONCRETE FOUNDATIONS ARE PROVIDED FOR REFERENCE ONLY. THE ENGINEER OF TRAFFIC SHALL BE NOTIFIED FOR LOCATION VERIFICATION BEFORE INSTALLATION.
5.	ALL TRAFFIC SIGNAL SECTIONS SHALL HAVE 12" SINGLE LED LENSES.
6.	THE RED SECTIONS OF THE SIGNAL HEADS SHARING THE SAME MAST ARM SHALL BE LEVEL WITH ONE ANOTHER AND MAINTAIN A 16 FT. MINIMUM CLEARANCE FROM THE HIGHEST POINT OF THE ROADWAY TO BOTTOM OF THE SIGNAL BACKPLATE.
7.	ALL TRAFFIC SIGNAL HEAD BRACKETS ARE TO BE GALVANIZED STEEL WITH A NATURAL FINISH.
8.	ALL TRAFFIC SIGNAL STRUCTURES SHALL BE BONDED IN ACCORDANCE WITH NEC REQUIREMENTS. THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR "ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C" AND SHALL INCLUDE ALL LABOR, EQUIPMENT, AND MATERIALS (INCLUDING CLAMPS, HARDWARE, ELECTRICAL CABLE, AND ALL OTHER ITEMS REQUIRED TO BOND THE STRUCTURES).
9.	SDR 13.5 HDPE COILABLE DUCT MAY BE USED IN PLACE OF SCHEDULE 40 PVC CONDUIT.
10.	THE CONTRACTOR SHALL PROVIDE ELECTRICAL CABLE SLACK IN ACCORDANCE WITH ARTICLE 873.03.
11.	ELECTRICAL CABLE WILL BE MEASURED FOR PAYMENT IN ACCORDANCE WITH ARTICLE 873.04.
12.	THE CONTRACTOR SHALL VERIFY FIELD CONDITIONS PRIOR TO BIDDING. THERE WILL BE NO ADDITIONAL COMPENSATION PAID FOR CLAIMS THAT ARISE FROM A FAILURE TO FULLY INVESTIGATE EXISTING FIELD CONDITIONS.
13.	THE EXISTING TRAFFIC SIGNALS SHALL REMAIN IN OPERATION DURING THE CONSTRUCTION OF THE PROPOSED TRAFFIC SIGNALS.
14.	ANY MAINTENANCE OF EXISTING TRAFFIC SIGNALS WILL BE CONSIDERED EXTRA WORK IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.
15.	THE HANDHOLES SHALL BE CONSTRUCTED SO THAT THE TOP OF THE FRAME WILL BE FLUSH WITH THE SURFACE OF THE SHOULDER OR GROUND LINE.
16.	ALL SURPLUS MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS.
17.	COILABLE POLYETHYLENE DUCT MAY BE SUBSTITUTED FOR PVC PUSHED OR TRENCHED.
18.	NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR PLACING CONDUIT AT GREATER THAN 2 FT. MINIMUM DEPTH TO AVOID OBSTACLES SUCH AS UNDERGROUND UTILITIES.
19.	THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF UNCOVERING OR HAND DIGGING AROUND UTILITIES AS NECESSARY. THIS COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICES FOR THE CONDUITS.
20.	THE CONTRACTOR SHALL RELOCATE SIGNS FROM THE EXISTING MAST ARMS AND TRAFFIC SIGNAL POSTS TO THE PROPOSED MAST ARMS AND TRAFFIC SIGNAL POSTS. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE BID PRICE OF THE PROPOSED MAST ARMS AND TRAFFIC SIGNAL POSTS.
21.	ALL PROPOSED STREET SIGNS SHALL INCLUDE THE BLOCK NUMBERING AT THE BOTTOM OF THE SIGN.
22.	THE CONTRACTOR SHALL FURNISH AND INSTALL GROUT AROUND ALL DRILLED CONDUITS LOCATED INSIDE OF HANDHOLES TO PREVENT WATER AND DIRT INTRUSION INTO THE HANDHOLE. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF "DRILL EXISTING HANDHOLE."
23.	WITHIN THIRTY CALENDAR DAYS AFTER CONTRACT EXECUTION, THE CONTRACTOR SHALL SUBMIT J.U.L.I.E. TICKETS TO HAVE THE UNDERGROUND UTILITIES MARKED AT THE INTERSECTION AND THEN SCHEDULE AN ON-SITE MEETING WITH THE RESIDENT ENGINEER AND IDOT D4 TRAFFIC OPERATIONS TO DETERMINE AND MARK THE EXACT PLACEMENT OF THE PROPOSED TRAFFIC SIGNAL COMPONENTS.
24.	THE CONTRACTOR SHALL FIELD VERIFY THE EXISTING ANCHOR BOLT PATTERN FOR THE EXISTING MA-4 PRIOR TO ORDERING MATERIAL FOR THE PROPOSED MA-4. THE CONTRACTOR SHALL VERIFY THAT THE PROPOSED MA-4 IS COMPATIBLE WITH THE EXISTING ANCHOR BOLT PATTERN.
25.	THE PROPOSED DOUBLE HANDHOLE, TRAFFIC SIGNAL CONTROLLER CABINET FOUNDATION, AND ELECTRIC SERVICE INSTALLATION SHALL BE INSTALLED 18 INCHES FROM THE EXISTING CONCRETE WALL IN THE SOUTHWEST QUADRANT, AS SHOWN IN THE PLANS.
26.	THE CONTRACTOR SHALL FURNISH AND INSTALL ONE 20A 1-POLE CIRCUIT BREAKER, BUTTON PHOTOCELL, TERMINAL BLOCK WIRING, AND ALL OTHER ITEMS REQUIRED TO PROVIDE POWER TO THE PROPOSED AND RELOCATED LUMINAIRES. THESE ITEMS SHALL BE INSTALLED IN THE PROPOSED TRAFFIC SIGNAL CABINET. ALL LUMINAIRES SHALL BE WIRED TO 120V. THE COST OF THIS WORK SHALL BE INCLUDED IN THE BID PRICE FOR "RELOCATE CONTROLLER CABINET."
27.	THE CONTRACTOR SHALL FURNISH AND INSTALL PEDESTRIAN PUSHBUTTON EXTENSIONS AS NEEDED TO ALLOW THE FACE OF THE PUSHBUTTON TO BE LOCATED A MAXIMUM OF 10 INCHES FROM THE EDGE OF THE CLEAR SPACE, AS SHOWN IN THE PEDESTRIAN PUSHBUTTON PLAN DETAIL. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF THE "ACCESSIBLE PEDESTRIAN SIGNALS."
28.	THE CONTRACTOR SHALL RELOCATE THE EXISTING CCTV CAMERA, HARDWARE, ETC. FROM THE EXISTING MAST ARM (MA-4) TO THE PROPOSED MAST ARM (MA-4.) THIS WORK SHALL BE INCLUDED IN THE BID PRICE OF THE PAY ITEM "RELOCATE EXISTING PTZ CAMERA."
29.	THE CONTRACTOR SHALL PICK UP FOUR ROADWAY LUMINAIRES FROM THE CITY OF PEORIA PUBLIC WORKS DEPARTMENT AT 3505 N. DRIES LN. PEORIA, IL 61604 AND INSTALL TWO ON MA-2 AND TWO ON MA-4 AS SHOWN IN THE PLANS. THE LUMINAIRES SHALL BE INSTALLED 90 DEGREES APART. THE CONTRACTOR SHALL FURNISH AND INSTALL NEW POLE WIRING, SURGE ARRESTORS, FUSE HOLDERS, AND FUSES. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE BID PRICE FOR "ROADWAY LUMINAIRE, SPECIAL (INSTALL ONLY)."
30.	PEDESTRIAN PUSHBUTTONS SHALL BE LOCATED IN ACCORDANCE WITH THE 2009 MUTCD. FOR ALL INSTALLATIONS, THE REACH RANGE (DISTANCE BETWEEN THE FACE OF PEDESTRIAN PUSHBUTTON AND THE CLEAR SPACE) SHALL NOT EXCEED 10 INCHES. THE COST TO MODIFY OR RELOCATE ANY PUSHBUTTONS THAT WERE NOT INSTALLED ACCORDING TO MUTCD REQUIREMENTS AND CONTRACT SPECIFICATIONS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
31.	PEDESTRIAN PUSHBUTTON SIGNS (R10-3E) SHALL BE CONSTRUCTED USING TYPE ZZ RETROREFLECTIVE SHEETING IN ACCORDANCE WITH ART. 1091.03.
32.	FOR LOCATIONS WITH TWO PEDESTRIAN PUSHBUTTONS ON A SINGLE TRAFFIC SIGNAL POST OR PEDESTRIAN PUSHBUTTON POST, THE CONTRACTOR SHALL FURNISH AND INSTALL A SINGLE MOUNTING BRACKET THAT HOUSES BOTH PEDESTRIAN PUSHBUTTON FRAMES, WITH INTEGRATED CUPS, AT A 90 DEGREE ANGLE FROM EACH OTHER. THE COST OF THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE BID PRICE FOR THE "ACCESSIBLE PEDESTRIAN SIGNALS."
33.	THE CONTRACTOR SHALL FURNISH AND INSTALL CONDUIT AND SERVICE CABLES AS REQUIRED FROM THE PROPOSED ELECTRIC SERVICE INSTALLATION TO THE AMEREN TRANSFORMER. THE COST OF THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE BID PRICE FOR THE ELECTRIC SERVICE INSTALLATION, SPECIAL.
34.	THE PROPOSED CONCRETE FOUNDATION FOR MA-3 SHALL BE LOCATED WITHIN 5 FT OF THE EXISTING CONCRETE FOUNDATION AND 2 FT. FROM THE EXISTING CONCRETE PARAPET WALL.
35.	THE CONTRACTOR SHALL CLEAR AND REMOVE ANY BRUSH OR LANDSCAPING TO ACCOMODATE THE INSTALLATION OF THE PROPOSED CONCRETE FOUNDATIONS. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE CONCRETE FOUNDATIONS.
36.	THE CONTRACTOR SHALL FURNISH AND INSTALL THE PROPOSED HANDHOLE HH-5 IN THE GRASS AREA BETWEEN THE SIDEWALK AND CURB IN THE NORTHWEST QUADRANT AS SHOWN IN THE PLANS. THE HANDHOLE SHALL BE LOCATED ADJACENT TO THE EXISTING IDOT COMMUNICATIONS VAULT.
37.	THE CONTRACTOR SHALL FURNISH AND INSTALL FIBER OPTIC CABLE FROM THE RELOCATED TRAFFIC SIGNAL CONTROLLER TO THE NEAREST EXISTING COMMUNICATIONS VAULT THAT CONTAINS THE EXISTING FIBER OPTIC BACKBONE AS SHOWN IN THE PLANS AND DESCRIBED IN THE SPECIAL PROVISIONS. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE BID PRICE OF "FIBER OPTIC CABLE SPLICE - LATERAL."

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**STATE OF ILLINOIS  
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**CONSTRUCTION NOTES**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	D4 MAST ARM REPLACEMENT 2023-1	PEORIA	17	4
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68H56	



SUMMARY OF QUANTITIES

CONST. CODE
0021
80% FEDERAL
20% STATE
0% CITY
URBAN
PEORIA

ITEM NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QTY.	PEORIA
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	178.0	178.0
44000600	SIDEWALK REMOVAL	SQ FT	178.0	178.0
67100100	MOBILIZATION	L SUM	1.0	1.0
* 72000100	SIGN PANEL - TYPE 1	SQ FT	10.0	10.0
* 72000200	SIGN PANEL - TYPE 2	SQ FT	76.4	76.4
81028320	UNDERGROUND CONDUIT, PVC, 1" DIA.	FOOT	7.0	7.0
81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	43.0	43.0
81028370	UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	305.0	305.0
81400700	HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	1.0	1.0
81400720	DOUBLE HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	1.0	1.0
81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	528.0	528.0
81702130	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	56.0	56.0
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1678.0	1678.0
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1275.0	1275.0
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	460.0	460.0
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1.0	1.0
87700160	STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	1.0	1.0
87702890	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 32 FT.	EACH	1.0	1.0
87702910	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 36 FT.	EACH	1.0	1.0
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	3.0	3.0
87800200	CONCRETE FOUNDATION, TYPE D	FOOT	3.5	3.5

\* = SPECIALTY ITEM

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SUMMARY OF QUANTITIES - CONTINUED

CONST. CODE  
0021  
80% FEDERAL  
20% STATE  
0% CITY  
URBAN  
PEORIA

ITEM NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QTY.	CONST. CODE
87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	23.5	23.5
87900200	DRILL EXISTING HANDHOLE	EACH	2.0	2.0
88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1.0	1.0
88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	6.0	6.0
88040110	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	4.0	4.0
88040120	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	4.0	4.0
88102845	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	4.0	4.0
88200510	TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	15.0	15.0
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1.0	1.0
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	4.0	4.0
X0322281	WIDE AREA VIDEO DETECTION SYSTEM COMPLETE	EACH	1.0	1.0
X0323914	FIBER OPTIC CABLE SPLICE - LATERAL	EACH	1.0	1.0
X0326812	CAT 5 ETHERNET CABLE	FOOT	186.5	186.5
X1400227	ROADWAY LUMINAIRE, SPECIAL (INSTALL ONLY)	EACH	4.0	4.0
X1400368	RELOCATE EXISTING PTZ CAMERA	EACH	1.0	1.0
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1.0	1.0
X8040102	ELECTRIC SERVICE INSTALLATION, SPECIAL	EACH	1.0	1.0
X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8.0	8.0
X8760201	PEDESTRIAN PUSH-BUTTON POST	EACH	2.0	2.0
X8950205	REBUILD EXISTING HANDHOLE, SPECIAL	EACH	1.0	1.0
X8950224	RELOCATE CONTROLLER CABINET	EACH	1.0	1.0

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SUMMARY OF QUANTITIES - CONTINUED

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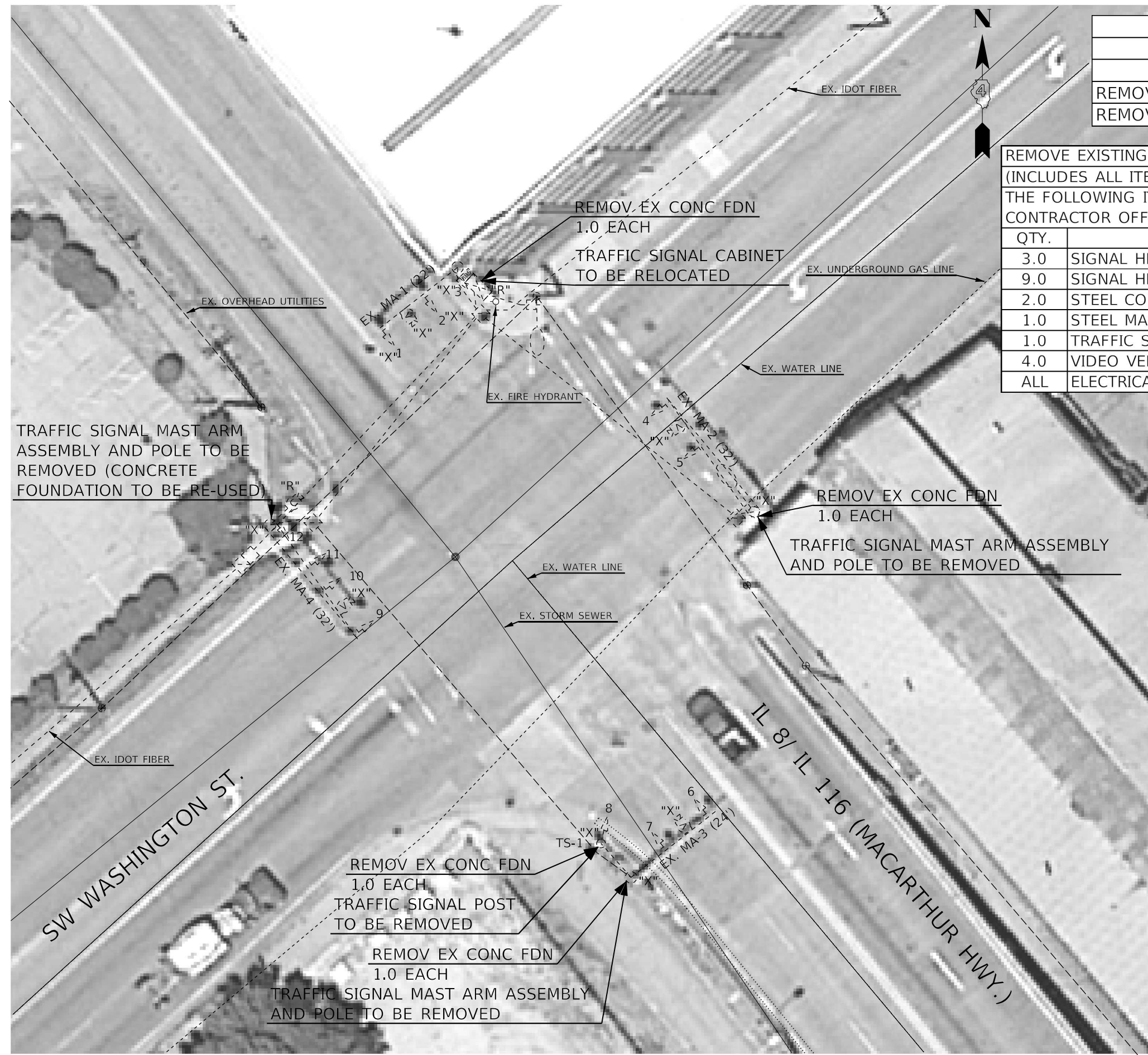
BILL OF MATERIALS		
MACARTHUR & WASHINGTON (REMOVAL)		
ITEM DESCRIPTION	UNIT	QTY.
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1.0
REMOVE EXISTING CONCRETE FOUNDATION	EACH	4.0

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT - QTY. 1.0 EACH (INCLUDES ALL ITEMS LISTED BELOW)	
THE FOLLOWING ITEMS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR OFF OF THE RIGHT-OF-WAY:	
QTY.	ITEM DESCRIPTION
3.0	SIGNAL HEAD, BRACKET MOUNTED (SIGNAL HEADS 3,8,12)
9.0	SIGNAL HEAD, MAST ARM MOUNTED (SIGNAL HEADS 1,2,4,5,6,7,9,10,11)
2.0	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE (MA-2, MA-4)
1.0	STEEL MAST ARM ASSEMBLY AND POLE (MA-3)
1.0	TRAFFIC SIGNAL POST (TS-1)
4.0	VIDEO VEHICLE DETECTION CAMERA
ALL	ELECTRICAL CABLE NOT USED IN PROPOSED PLANS

- NOTES:
1. REMOVAL ITEMS LABELED "X"
  2. RELOCATED ITEMS LABELED "R"
  3. THE CONCRETE FOUNDATION FOR EXISTING MAST ARM (MA-4) SHALL REMAIN AND BE RE-USED FOR THE PROPOSED MAST ARM (MA-4.)

"X" INDICATES REMOVAL ITEM  
"R" INDICATES RELOCATE ITEM

LEGEND	
	EX. TS CONTROLLER CABINET
	EX. DOUBLE HANDHOLE
	EX. HANDHOLE
	EX. SIGNAL HEAD (WITH BACKPLATE)
	EX. SIGNAL HEAD (WITHOUT BACKPLATE)
	EX. MAST ARM ASSEMBLY AND POLE
	EX. COMBINATION MAST ARM ASSEMBLY AND POLE
	EX. TRAFFIC SIGNAL POST
	EX. LUMINAIRE
	EX. CONDUIT
	EX. CCTV CAMERA
	EX. VEHICLE VIDEO DETECTION CAMERA



NOT TO SCALE

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PLOT DATE = 12/15/2022	DATE -	REVISED -

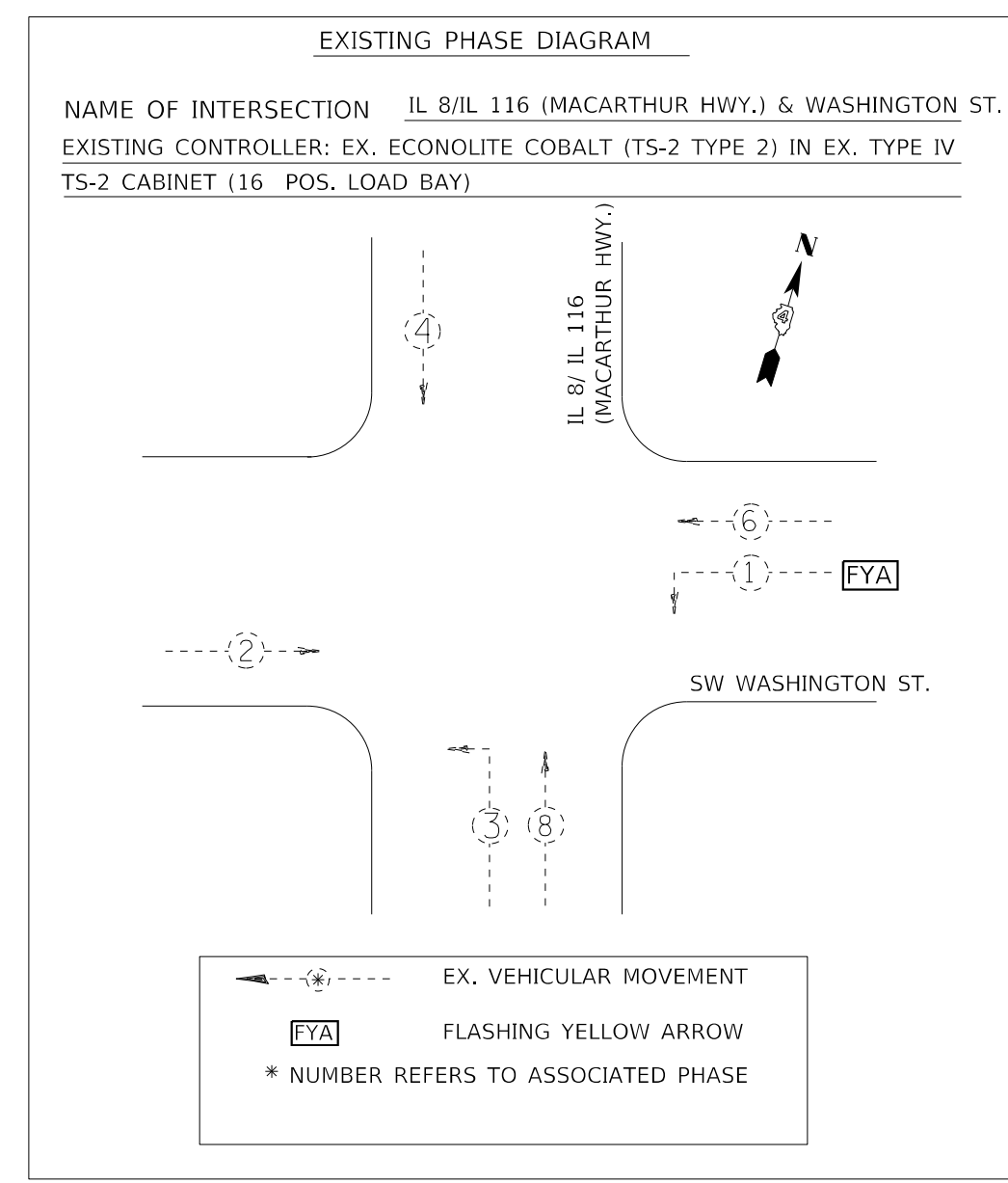
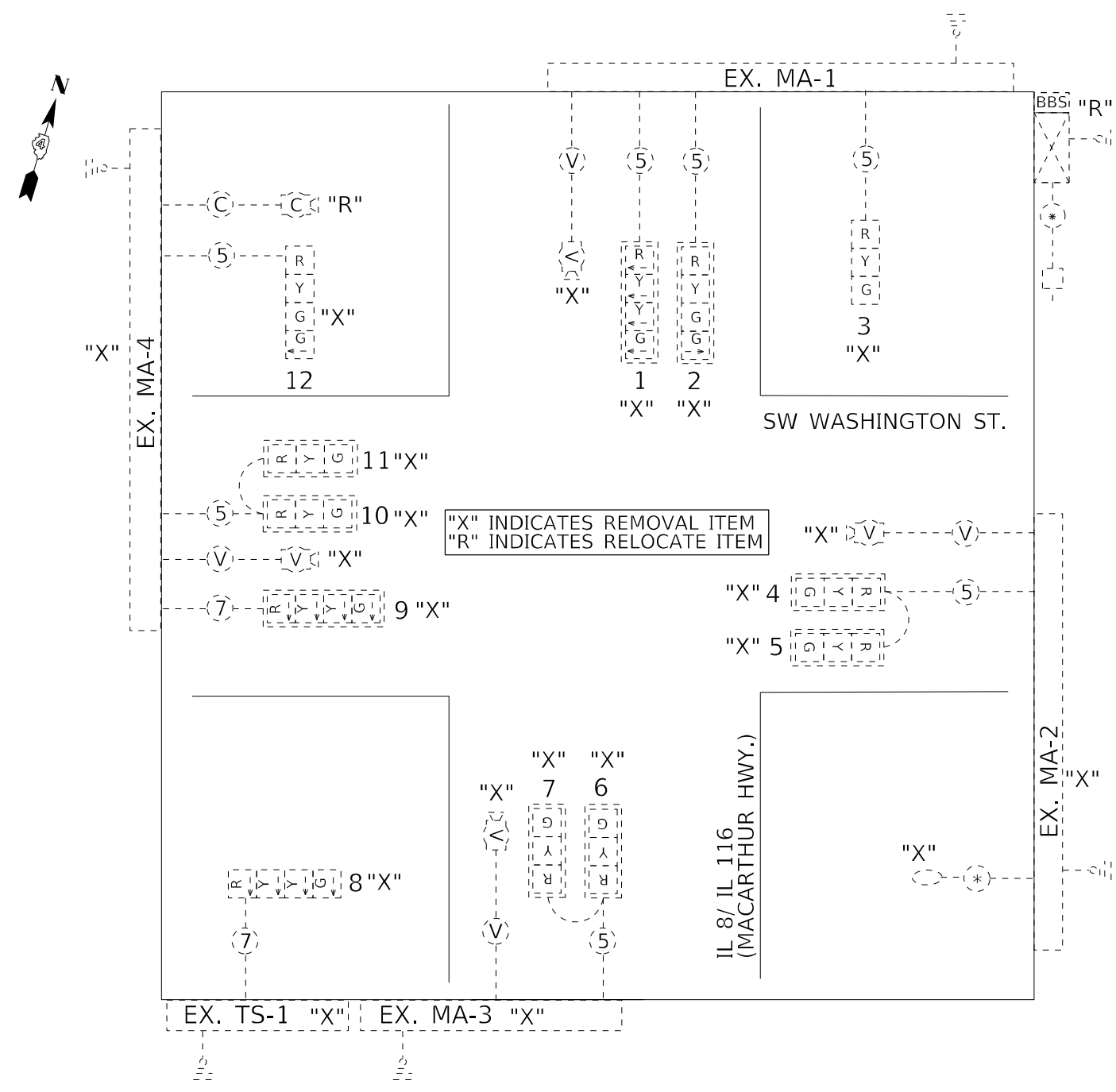
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING TRAFFIC SIGNAL PLANS & REMOVAL ITEMS  
IL 8/IL 116 (MACARTHUR HWY.) & SW WASHINGTON ST. - PEORIA

F.A.P. RTE. 669	SECTION D4 MAST ARM REPLACEMENT 2023-1	COUNTY PEORIA	TOTAL SHEETS 17	SHEET NO. 7
			CONTRACT NO. 68H56	
		ILLINOIS FED. AID PROJECT		

SCALE: SHEET OF SHEETS STA. TO STA.





TRAFFIC SIGNALS LEGEND

	EX. TRAFFIC SIGNAL CONTROLLER CABINET (TO BE RELOCATED)		EX. 3 SEC. SIGNAL HEAD WITH BACKPLATE		EX. 5/C NO. 14 SIGNAL CABLE
	EX. ELECTRIC SERVICE		EX. 3 SEC. SIGNAL HEAD WITHOUT BACKPLATE		EX. 7/C NO. 14 SIGNAL CABLE
	EX. GROUND/SAFETY BOND		EX. ROADWAY LUMINAIRE		EX. 1/C NO. 6 CABLE
	EX. CCTV CAMERA		EX. VIDEO VEHICLE DETECTOR		EX. VIDEO DETECTION CABLE
			EX. CAT 5 ETHERNET CABLE		

NOT TO SCALE

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>EXISTING CIRCUIT AND PHASE DIAGRAMS</b>	
<b>IL 8/IL 116 (MACARTHUR HWY.) &amp; WASHINGTON ST. - PEORIA</b>	
SCALE:	SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 669	SECTION D4 MAST ARM REPLACEMENT 2023-1	COUNTY PEORIA	TOTAL SHEETS 17	SHEET NO. 8
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68H56	

TRAFFIC SIGNAL HEAD SCHEDULE			
IL 8/IL 116 (MACARTHUR) & WASHINGTON			
PROP. QTY.	UNIT	ITEM	LOCATION
1.0	EACH	SH P LED 1F 3S BM	3
6.0	EACH	SH P LED 1F 3S MAM	2,4,5,7,10,11
4.0	EACH	SH P LED 1F 4S BM	8,12,13,15
4.0	EACH	SH P LED 1F 4S MAM	1,6,9,14
4.0	EACH	PED SH P LED 2F BM CT	A/B, C/D, E/F, G/H
15.0	EACH	TS BACKPLATE RET-REFL	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15

HANDHOLE SCHEDULE			
IL 8/IL 116 (MACARTHUR) & WASHINGTON			
NAME	TYPE	LOCATION	DESCRIPTION
HH-1	DOUBLE	NE QUAD	REBUILD EXISTING HANDHOLE
HH-2	SINGLE	SE QUAD	DRILL EXISTING PCC HANDHOLE X 2
HH-3	DOUBLE	SW QUAD	PROPOSED PCC HANDHOLE
HH-4	SINGLE	NW QUAD	N/A
HH-5	SINGLE	NW QUAD	PROPOSED PCC HANDHOLE

MAST ARM AND TRAFFIC SIGNAL POST SCHEDULE						
IL 8/IL 116 (MACARTHUR) & WASHINGTON						
NAME	DESCRIPTION	LENGTH	PROPOSED FOUNDATION			LOCATION
			DIAMETER	TYPE	DEPTH	
MA-1	EX. S MAA&P	22 FT.	N/A			NE QUAD
MA-2	PROP. STL COMB MAA&P INSTALLED ON PROP. CONCRETE FOUNDATION	36 FT.	30 INCH	TYPE E	13.5 FT.	SE QUAD
MA-3	PROP. S MAA&P INSTALLED ON PROP. CONCRETE FOUNDATION	24 FT.	30 INCH	TYPE E	10.0 FT.	SW QUAD (MINIMUM 2 FT. BEHIND EX. PARAPET WALL)
MA-4	PROP. STL COMB MAA&P INSTALLED ON EX. CONCRETE FOUNDATION*	32 FT.	N/A			NW QUAD
TS-1	PROP. TS POST GALVS	16 FT.	24 INCH	TYPE A	3.0 FT.	SW QUAD

\* THE CONTRACTOR SHALL INSPECT THE EXISTING ANCHOR BOLT PATTERN FOR MA-4 PRIOR TO ORDERING MATERIALS. THE CONTRACTOR SHALL VERIFY THAT THE PROPOSED MA-4 IS COMPATIBLE WITH THE EXISTING ANCHOR BOLT PATTERN.

ACCESSIBLE PEDESTRIAN SIGNAL (APS) SCHEDULE		
IL 8/IL 116 (MACARTHUR) & WASHINGTON		
NAME	PROP. ACCESSIBLE PEDESTRIAN SIGNAL QTY.	LOCATION
P1	1.0	NE QUAD (PED-1)
P2	1.0	NE QUAD (PED-1)
P3	1.0	SE QUAD (PED-2)
P4	1.0	SE QUAD (PED-2)
P5	1.0	SW QUAD (TS-1)
P6	1.0	SW QUAD (TS-1)
P7	1.0	NW QUAD (MA-4)
P8	1.0	NW QUAD (MA-4)

SIGN SCHEDULE				
IL 8/IL 116 (MACARTHUR) & WASHINGTON				
DESCRIPTION	SIGN TYPE	SIGN SIZE (SQ FT.)	QTY.	LOCATION
PROP. MACARTHUR HWY*	II	19.8	2.0	EX. MA-1, PROP. MA-3
PROP. WASHINGTON ST*	II	18.4	2.0	PROP. MA-2, PROP. MA-4
PROP. FLASHING YELLOW ARROW	I	5.0	2.0	PROP. MA-2, PROP. MA-4
ALL OTHER EX. SIGNS TO BE RELOCATED TO PROP. MAST ARMS				
* SEE PLAN SHEET 14 FOR BLOCK LETTERING DETAILS				

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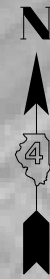
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>PROPOSED TRAFFIC SIGNAL SCHEDULES</b> <b>IL 8/IL 116 (MACARTHUR HWY.) &amp; SW WASHINGTON ST. - PEORIA</b>			
SCALE:	SHEET	OF	SHEETS
	STA.	TO	STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	D4 MAST ARM REPLACEMENT 2023-1	PEORIA	17	9
			CONTRACT NO. 68H56	
		ILLINOIS FED. AID PROJECT		



"R" INDICATES RELOCATE ITEM



BILL OF MATERIALS		
IL 8/IL 116 (MACARTHUR) & WASHINGTON		
ITEM DESCRIPTION	UNIT	QTY.
SIGN PANEL - TYPE 1	SQ FT	10.0
SIGN PANEL - TYPE 2	SQ FT	76.4
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1.0
STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	1.0
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 32 FT.	EACH	1.0
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 36 FT.	EACH	1.0
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1.0
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	6.0
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	4.0
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	4.0
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, BRACKET MOUNTED	EACH	4.0
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	15.0
WIDE AREA VIDEO DETECTION SYSTEM COMPLETE	EACH	1.0
CAT 5 ETHERNET CABLE	FOOT	186.5
ROADWAY LUMINAIRE, SPECIAL (INSTALL ONLY)	EACH	4.0
RELOCATE EXISTING PTZ CAMERA	EACH	1.0
ELECTRIC SERVICE INSTALLATION, SPECIAL	EACH	1.0
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8.0
PEDESTRIAN PUSH-BUTTON POST	EACH	2.0
RELOCATE CONTROLLER CABINET	EACH	1.0

NOTES:

1. THE CONTRACTOR SHALL REMOVE THE EXISTING CCTV CAMERA, HARDWARE, ETC. FROM THE EXISTING MAST ARM (MA-4) AND REINSTALL IT ON THE PROPOSED MAST ARM (MA-4.) THIS WORK SHALL BE INCLUDED IN THE BID PRICE OF THE PAY ITEM "RELOCATE EXISTING PTZ CAMERA."
2. THE CONTRACTOR SHALL PICK UP FOUR ROADWAY LUMINAIRES FROM THE CITY OF PEORIA PUBLIC WORKS DEPARTMENT AT 3505 N. DRIES LN. PEORIA, IL 61604 AND INSTALL TWO ON MA-2 AND TWO ON MA-4 AS SHOWN IN THE PLANS. THE LUMINAIRES SHALL BE INSTALLED 90 DEGREES APART. THE CONTRACTOR SHALL FURNISH AND INSTALL NEW POLE WIRING, SURGE ARRESTORS, FUSE HOLDERS, AND FUSES. THIS WORK SHALL BE INCLUDED IN THE BID PRICE FOR THE ROADWAY LUMINAIRES, SPECIAL (INSTALL ONLY.)
3. THE CONTRACTOR SHALL FURNISH AND INSTALL CONDUIT AND SERVICE CABLES AS REQUIRED FROM THE PROPOSED ELECTRIC SERVICE INSTALLATION TO THE AMEREN TRANSFORMER. THE COST OF THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE ELECTRIC SERVICE INSTALLATION, SPECIAL.

LEGEND

	EX. TS CONTROLLER CABINET (RELOCATED)		PROP. VEHICLE VIDEO DETECTION CAMERA
	EX. DOUBLE HANDHOLE		EX. FIRE HYDRANT
	EX. HANDHOLE		PROP. TS CONTROLLER CABINET
	EX. COMMUNICATIONS VAULT		PROP. HANDHOLE
	EX. BATTERY BACKUP SYSTEM (RELOCATED)		PROP. SIGNAL HEAD (WITH BACKPLATE)
	EX. MAST ARM ASSEMBLY AND POLE		PROP. MAST ARM ASSEMBLY AND POLE
	EX. COMBINATION MAST ARM ASSEMBLY AND POLE		PROP. COMBINATION MAST ARM ASSEMBLY AND POLE
	EX. TRAFFIC SIGNAL POST		PROP. TRAFFIC SIGNAL POST
	EX. LUMINAIRE		PROP. PEDESTRIAN SIGNAL HEAD
	EX. CONDUIT		PROP. PEDESTRIAN PUSHBUTTON (APS)
	EX. CCTV CAMERA (RELOCATED)		PROP. LED LUMINAIRE

NOT TO SCALE

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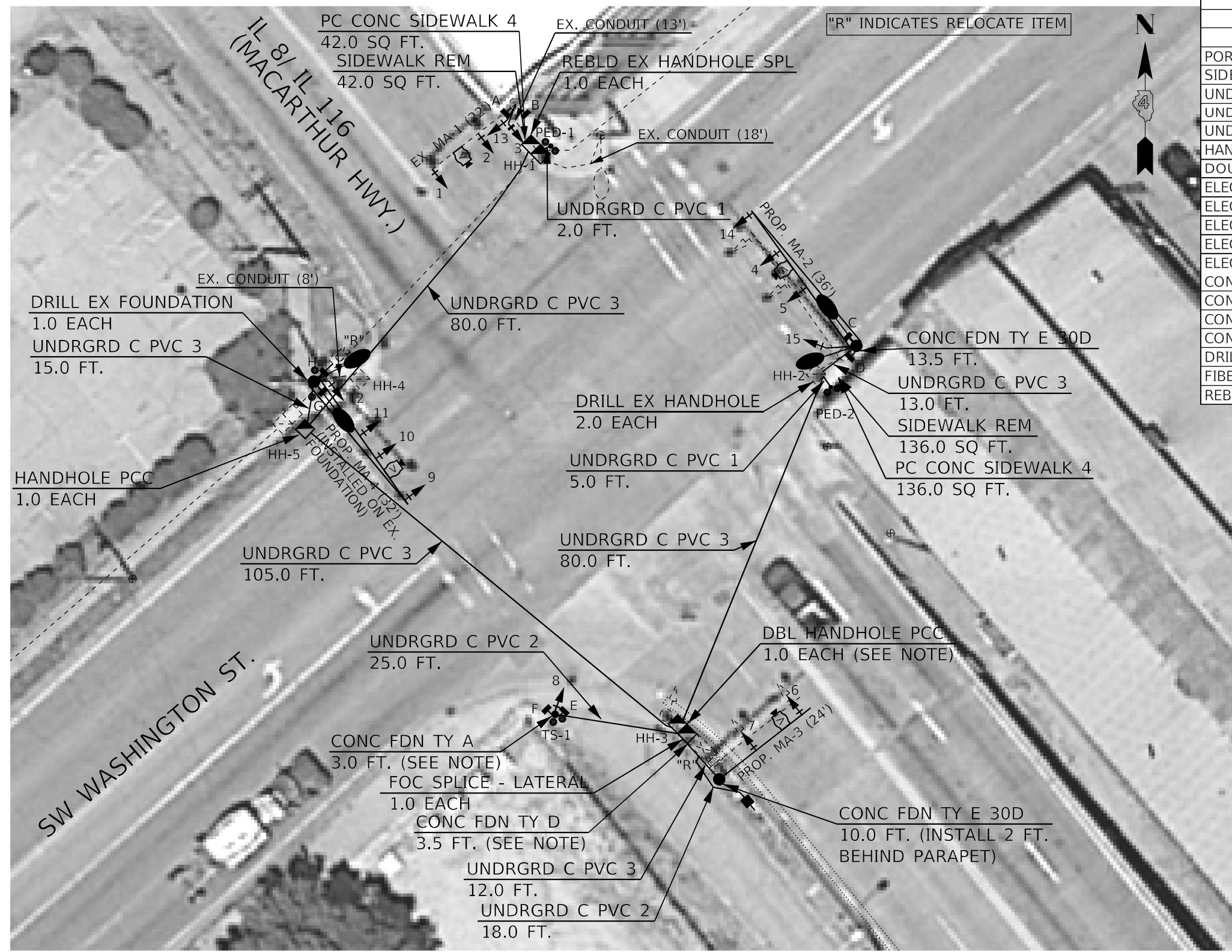
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PROPOSED TRAFFIC SIGNAL PLANS	
IL 8/IL 116 (MACARTHUR HWY.) & SW WASHINGTON ST. - PEORIA	
SCALE:	SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	D4 MAST ARM REPLACEMENT 2023-1	PEORIA	17	10
CONTRACT NO. 68H56				
ILLINOIS FED. AID PROJECT				





BILL OF MATERIALS		
IL 8/IL 116 (MACARTHUR) & WASHINGTON		
ITEM DESCRIPTION	UNIT	QTY.
PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	178.0
SIDEWALK REMOVAL	SQ FT	178.0
UNDERGROUND CONDUIT, PVC, 1" DIA.	FOOT	7.0
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	43.0
UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	305.0
HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	1.0
DOUBLE HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	1.0
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	528.0
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	56.0
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1678.0
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1275.0
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	460.0
CONCRETE FOUNDATION, TYPE A	FOOT	3.0
CONCRETE FOUNDATION, TYPE D	FOOT	3.5
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	23.5
DRILL EXISTING HANDHOLE	EACH	2.0
FIBER OPTIC CABLE SPLICE - LATERAL	EACH	1.0
REBUILD EXISTING HANDHOLE, SPECIAL	EACH	1.0

- NOTES:
- THE EXISTING CONDUIT BETWEEN MA-1 AND HH-1 SHALL BE RE-USED.
  - THE CONTRACTOR SHALL REBUILD THE EXISTING HANDHOLE (HH-1) TO BE A DOUBLE HANDHOLE. THE CONTRACTOR SHALL RE-INSTALL THE EXISTING CONDUITS INTO THE REBUILD HANDHOLE. THIS WORK WILL BE INCLUDED IN THE BID PRICE OF THE REBUILD HANDHOLE - SPECIAL.
  - THE PROPOSED PEDESTRIAN PUSHBUTTON POST (PED-1) SHALL BE LOCATED 2 FT. BEHIND THE REBUILT HANDHOLE HH-1.
  - THE CONTRACTOR SHALL REMOVE AND REPLACE THE EXISTING SIDEWALK PANEL BETWEEN HH-1 AND THE EXISTING CONTROLLER CABINET TO ACCOMMODATE CONDUIT INSTALLATION.
  - THE PROPOSED PEDESTRIAN PUSHBUTTON POST (PED-2) SHALL BE LOCATED AT THE BACK OF THE SIDEWALK, ALONG THE EDGE OF THE EXISTING BUILDING.
  - THE PROPOSED CONCRETE FOUNDATION FOR MA-2 SHALL BE LOCATED 5 FT. BEHIND THE EXISTING MA-2.
  - THE CONTRACTOR SHALL REMOVE AND REPLACE THE EXISTING SIDEWALK PANELS BETWEEN HH-2 AND THE PROPOSED MA-2 FOUNDATION TO ACCOMMODATE CONDUIT INSTALLATION.
  - THE PROPOSED DOUBLE HANDHOLE HH-3 AND CONTROLLER CABINET FOUNDATION SHALL BE INSTALLED 18 INCHES FROM THE EXISTING CONCRETE PARAPET WALL IN THE SOUTHWEST QUADRANT, AS SHOWN IN THE PLANS.
  - THE PROPOSED CONCRETE FOUNDATION FOR MA-3 SHALL BE LOCATED WITHIN 5 FT OF THE EXISTING CONCRETE FOUNDATION AND 2 FT. FROM THE EXISTING CONCRETE PARAPET WALL.
  - THE PROPOSED CONCRETE FOUNDATION FOR TS-1 SHALL BE LOCATED IN THE GRASS AREA BETWEEN THE ROW LINE AND THE EXISTING ALLEY. THE CONTRACTOR SHALL CLEAR AND REMOVE ANY BRUSH OR LANDSCAPING TO ACCOMMODATE THE INSTALLATION. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE CONCRETE FOUNDATION.
  - THE CONTRACTOR SHALL FURNISH AND INSTALL THE PROPOSED HANDHOLE HH-5 IN THE GRASS AREA BETWEEN THE SIDEWALK AND CURB IN THE NORTHWEST QUADRANT AS SHOWN IN THE PLANS. THE HANDHOLE SHALL BE LOCATED ADJACENT TO THE EXISTING IDOT COMMUNICATIONS VAULT.
  - THE CONTRACTOR SHALL INSTALL FIBER OPTIC CABLE FROM THE RELOCATED TRAFFIC SIGNAL CONTROLLER TO THE NEAREST EXISTING COMMUNICATIONS VAULT THAT CONTAINS THE EXISTING FIBER OPTIC BACKBONE AS SHOWN IN THE PLANS. THE FIBER OPTIC CABLE WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE BID PRICE OF THE FIBER OPTIC CABLE SPLICE - LATERAL.
  - THE PROPOSED MAST ARM MA-4 SHALL BE INSTALLED ON THE EXISTING CONCRETE FOUNDATION. THE CONTRACTOR SHALL VERIFY THE CONDITION OF THE FOUNDATION AND THE ANCHOR BOLT SIZE, PATTERN, AND CONDITION PRIOR TO ORDERING THE PROPOSED MA-4. THE CONTRACTOR SHALL VERIFY THAT THE PROPOSED MA-4 IS COMPATIBLE WITH THE EXISTING ANCHOR BOLT PATTERN.
  - THE ENGINEER OF TRAFFIC SHALL BE NOTIFIED PRIOR TO INSTALLATION TO VERIFY FOUNDATION LOCATION.
  - THE REQUIREMENTS FOR PEDESTRIAN PUSHBUTTON INSTALLATION DETAILED ON SHEET 14 APPLY TO ALL PEDESTRIAN PUSHBUTTONS, INCLUDING PEDESTRIAN PUSHBUTTON POST, TRAFFIC SIGNAL POST AND MAST ARM STRAIN POLE INSTALLATIONS.

LEGEND

	EX. TS CONTROLLER CABINET (RELOCATED)		PROP. VEHICLE VIDEO DETECTION CAMERA
	EX. DOUBLE HANDHOLE		EX. FIRE HYDRANT
	EX. HANDHOLE		PROP. TS CONTROLLER CABINET
	EX. COMMUNICATIONS VAULT		PROP. HANDHOLE
	EX. BATTERY BACKUP SYSTEM (RELOCATED)		PROP. SIGNAL HEAD (WITH BACKPLATE)
	EX. MAST ARM ASSEMBLY AND POLE		PROP. MAST ARM ASSEMBLY AND POLE
	EX. COMBINATION MAST ARM ASSEMBLY AND POLE		PROP. COMBINATION MAST ARM ASSEMBLY AND POLE
	EX. TRAFFIC SIGNAL POST		PROP. TRAFFIC SIGNAL POST
	EX. LUMINAIRE		PROP. PEDESTRIAN SIGNAL HEAD
	EX. CONDUIT		PROP. PEDESTRIAN PUSHBUTTON (APS)
	EX. CCTV CAMERA (RELOCATED)		PROP. LED LUMINAIRE

NOT TO SCALE

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PROPOSED CONDUIT, HANDHOLE, AND FOUNDATION LAYOUT	
IL 8/IL 116 (MACARTHUR HWY.) & SW WASHINGTON ST. - PEORIA	
SCALE:	SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	D4 MAST ARM REPLACEMENT 2023-1	PEORIA	17	11
CONTRACT NO. 68H56				
ILLINOIS FED. AID PROJECT				



LEGEND

- |  |  |  |  |
|--|--|--|--|
|  | EX. TS CONTROLLER CABINET (RELOCATED)      |  | PROP. VEHICLE VIDEO DETECTION CAMERA         |
|  | EX. DOUBLE HANDHOLE                        |  | EX. FIRE HYDRANT                             |
|  | EX. HANDHOLE                               |  | PROP. TS CONTROLLER CABINET                  |
|  | EX. COMMUNICATIONS VAULT                   |  | PROP. HANDHOLE                               |
|  | EX. BATTERY BACKUP SYSTEM (RELOCATED)      |  | PROP. SIGNAL HEAD (WITH BACKPLATE)           |
|  | EX. MAST ARM ASSEMBLY AND POLE             |  | PROP. MAST ARM ASSEMBLY AND POLE             |
|  | EX. COMBINATION MAST ARM ASSEMBLY AND POLE |  | PROP. COMBINATION MAST ARM ASSEMBLY AND POLE |
|  | EX. TRAFFIC SIGNAL POST                    |  | PROP. TRAFFIC SIGNAL POST                    |
|  | EX. LUMINAIRE                              |  | PROP. PEDESTRIAN SIGNAL HEAD                 |
|  | EX. CONDUIT                                |  | PROP. PEDESTRIAN PUSHBUTTON (APS)            |
|  | EX. CCTV CAMERA (RELOCATED)                |  | PROP. LED LUMINAIRE                          |

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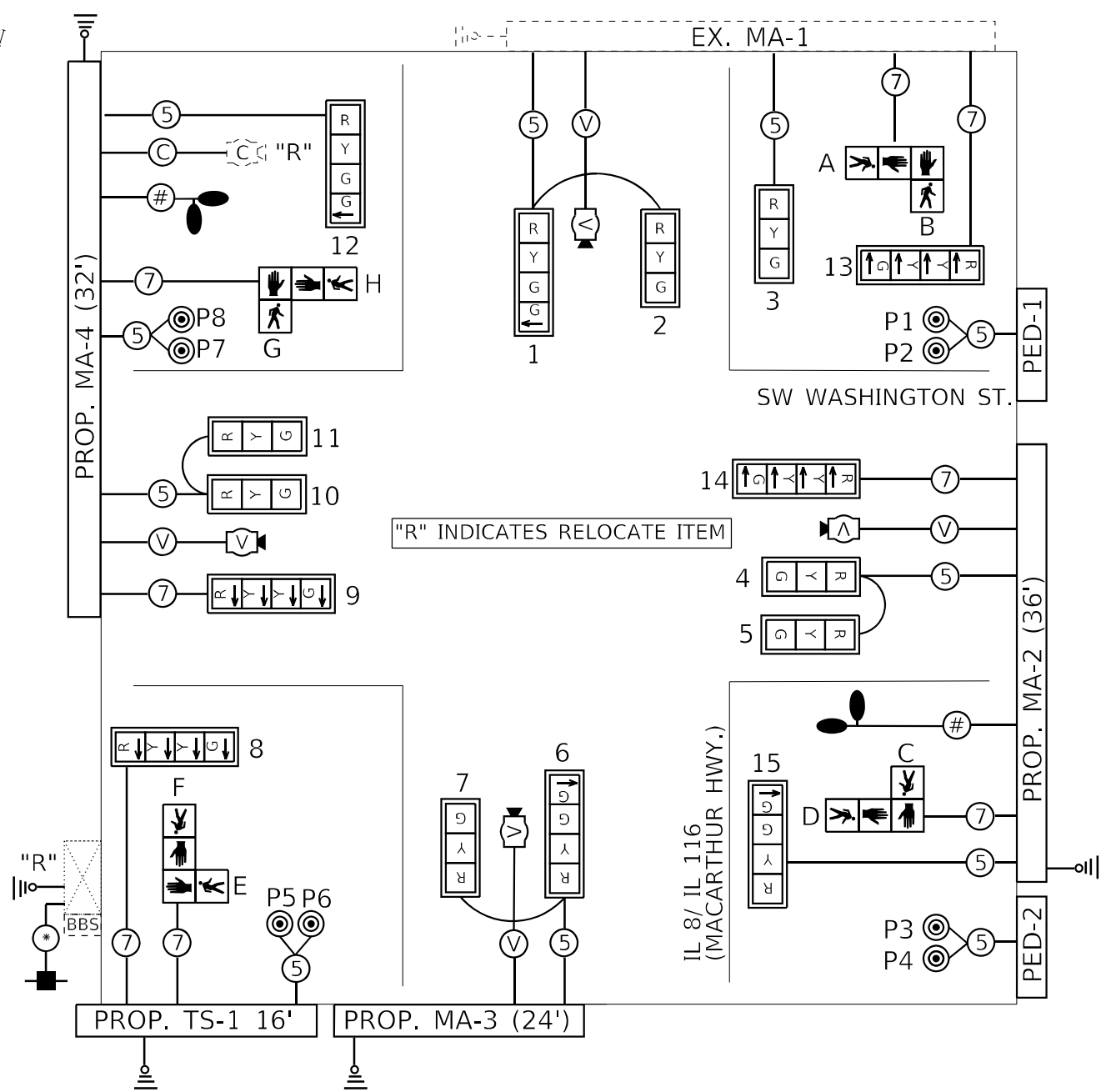
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PROPOSED TRAFFIC SIGNALS & EXISTING UTILITY LOCATIONS  
IL 8/IL 116 (MACARTHUR HWY.) & SW WASHINGTON ST. - PEORIA**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	D4 MAST ARM REPLACEMENT 2023-1	PEORIA	17	12
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68H56	

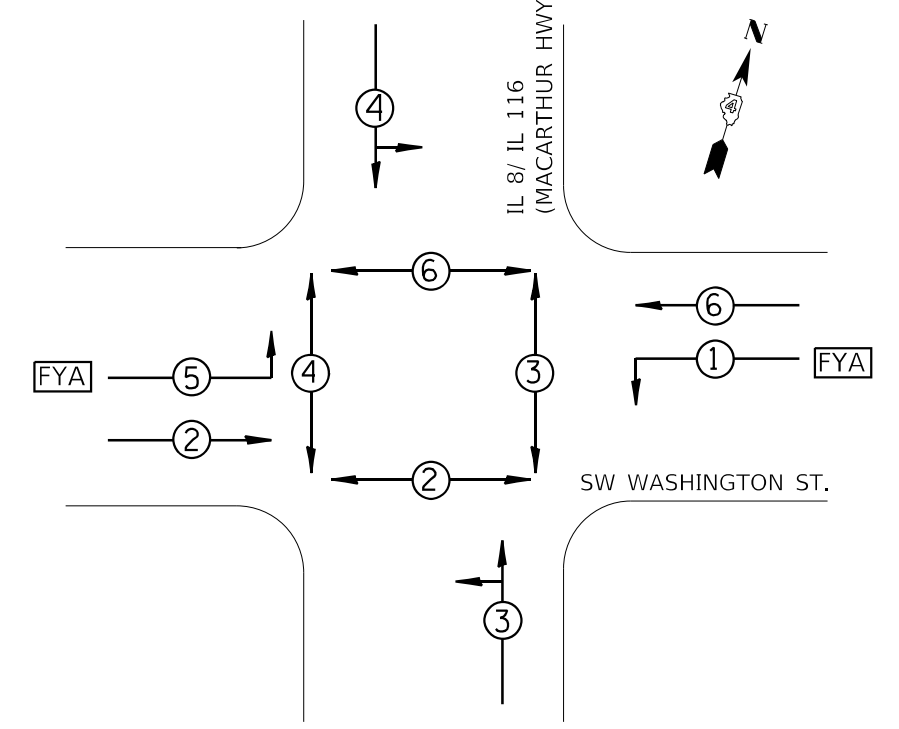


TRAFFIC SIGNALS LEGEND

- |  |   |  |   |  |                               |
|--|---|--|---|--|-------------------------------|
|  | EX. TRAFFIC SIGNAL CONTROLLER CABINET (TO BE RELOCATED) |  | EX. 3 SEC. SIGNAL HEAD WITH BACKPLATE                   |  | PROP. 5/C NO. 14 SIGNAL CABLE |
|  | PROP. ELECTRIC SERVICE INSTALLATION, SPECIAL            |  | EX. 3 SEC. SIGNAL HEAD WITHOUT BACKPLATE                |  | PROP. 7/C NO. 14 SIGNAL CABLE |
|  | EX. GROUND/SAFETY BOND                                  |  | PROP. 3 SEC. SIGNAL HEAD WITH RETROREFLECTIVE BACKPLATE |  | PROP. 1/C NO. 6 CABLE X 2     |
|  | PROP. GROUND/SAFETY BOND                                |  | PROP. PEDESTRIAN SIGNAL HEAD                            |  | PROP. 1/C NO. 10 CABLE X 2    |
|  | EX. ROADWAY LUMINAIRE                                   |  | PROP. PEDESTRIAN PUSHBUTTON (APS)                       |  | PROP. CAT 5 ETHERNET CABLE    |
|  | EX. CCTV CAMERA   |  | PROP. VIDEO DETECTION CABLE                             |  | PROP. VIDEO DETECTION CABLE   |
|  | PROP. VIDEO VEHICLE DETECTOR                            |  |   |  |                               |

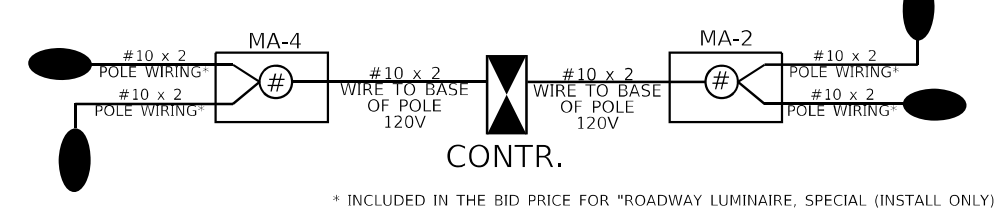
PROPOSED PHASE DIAGRAM

NAME OF INTERSECTION IL 8/IL 116 (MACARTHUR HWY.) & WASHINGTON ST.  
 PROPOSED CONTROLLER: EX. ECONOLITE COBALT (TS-2 TYPE 2) IN RELOCATED EX. TYPE IV TS-2 CABINET (16 POS. LOAD BAY)



- PROP. VEHICULAR MOVEMENT
- PROP. PEDESTRIAN MOVEMENT
- FLASHING YELLOW ARROW
- \* NUMBER REFERS TO ASSOCIATED PHASE

PROPOSED ROADWAY LIGHTING CIRCUIT



THE CONTRACTOR SHALL FURNISH AND INSTALL ONE 20A 1-POLE CIRCUIT BREAKER, BUTTON PHOTOCCELL, TERMINAL BLOCK WIRING, AND ALL OTHER ITEMS REQUIRED TO PROVIDE PHOTOCCELL-CONTROLLER POWER TO THE PROPOSED AND RELOCATED LUMINAIRES. THESE ITEMS SHALL BE INSTALLED IN THE PROPOSED TRAFFIC SIGNAL CABINET. THE COST OF THIS WORK SHALL BE INCLUDED IN THE BID PRICE FOR "RELOCATE CONTROLLER CABINET."

THE CONTRACTOR SHALL PICK UP FOUR ROADWAY LUMINAIRES FROM THE CITY OF PEORIA PUBLIC WORKS DEPARTMENT AT 3505 N. DRIES LN. PEORIA, IL 61604 AND INSTALL TWO ON MA-2 AND TWO ON MA-4 AS SHOWN IN THE PLANS. THE LUMINAIRES SHALL BE INSTALLED 90 DEGREES APART. THE CONTRACTOR SHALL FURNISH AND INSTALL NEW POLE WIRING, SURGE ARRESTORS, FUSE HOLDERS, AND FUSES. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE BID PRICE FOR "ROADWAY LUMINAIRE, SPECIAL (INSTALL ONLY)."

NOT TO SCALE

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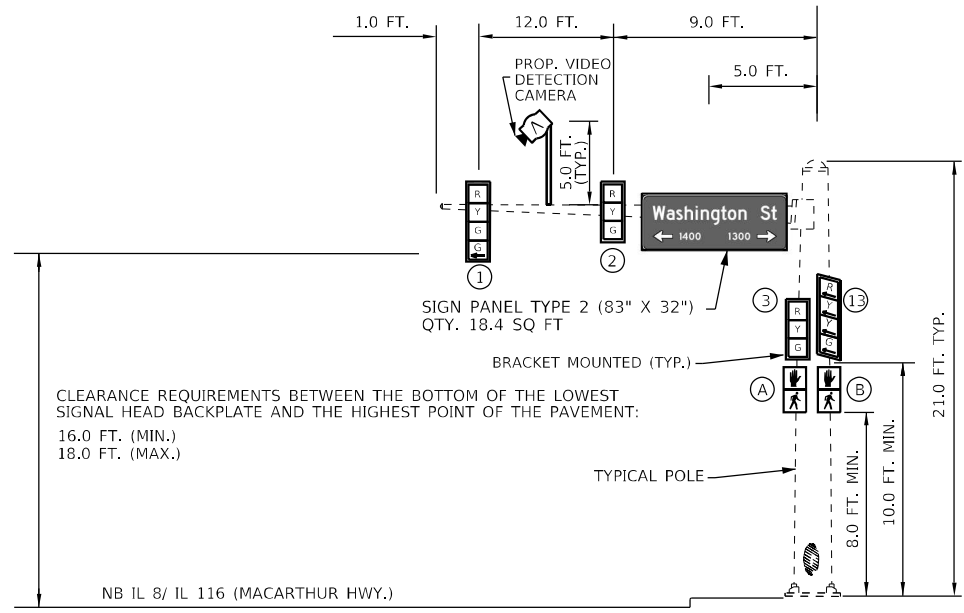
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DRAWN -	REVISIONS -	
PLOT SCALE = 23,8272' / in.	CHECKED -	REVISIONS -
PLOT DATE = 12/15/2022	DATE -	REVISIONS -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

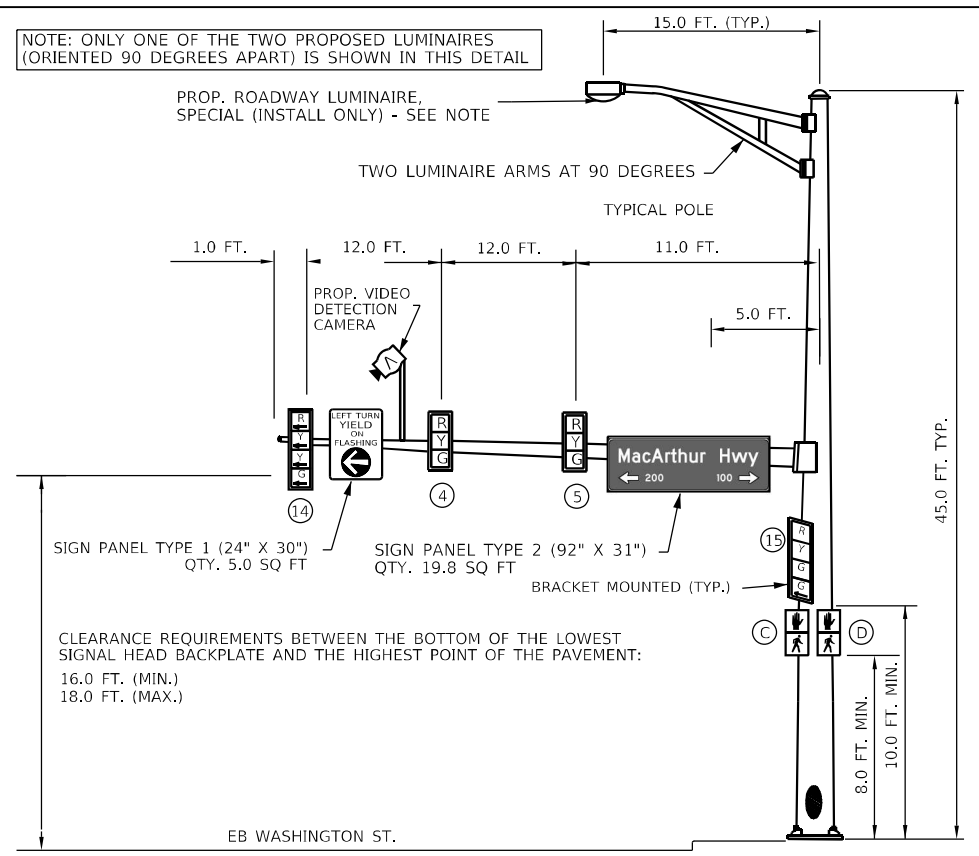
PROPOSED CIRCUIT AND PHASE DIAGRAMS  
IL 8/IL 116 (MACARTHUR HWY.) & SW WASHINGTON ST. - PEORIA

F.A.P. RTE. 669	SECTION D4 MAST ARM REPLACEMENT 2023-1	COUNTY PEORIA	TOTAL SHEETS 17	SHEET NO. 13
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68H56	

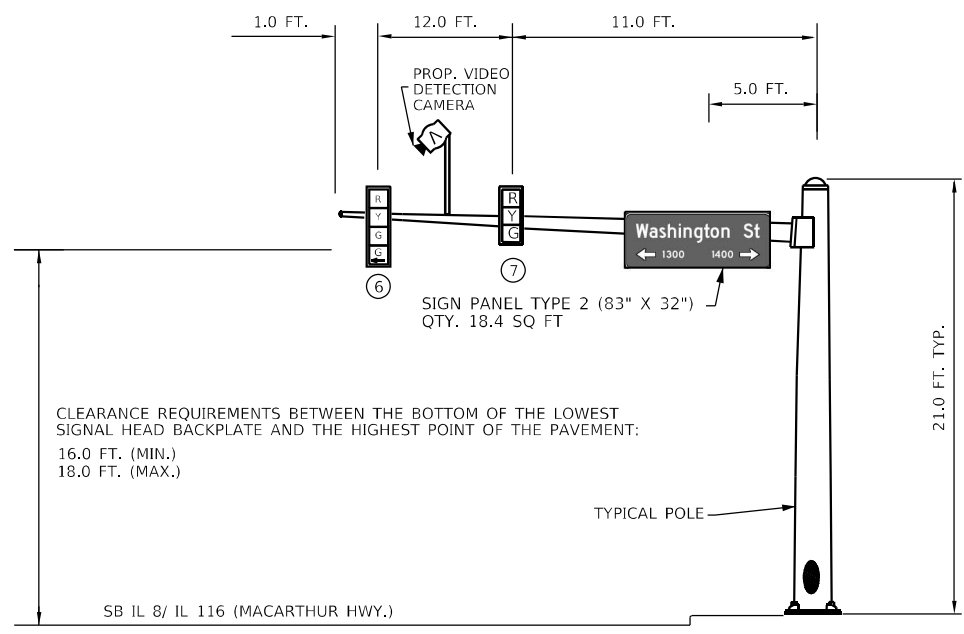




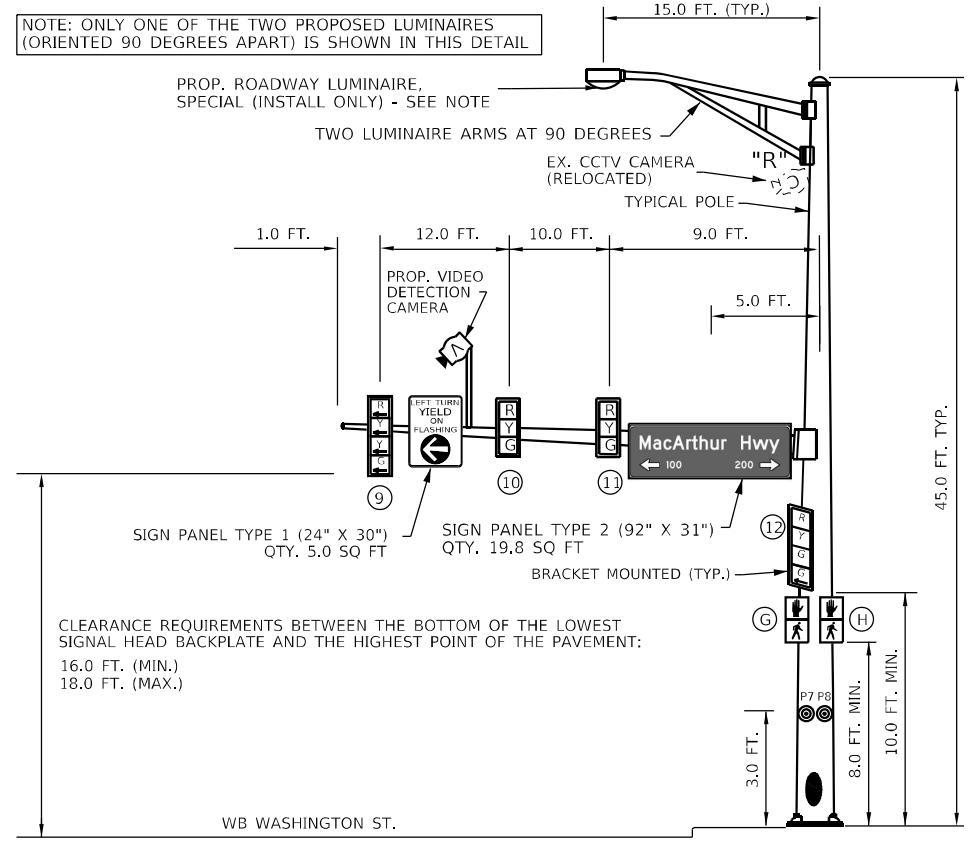
NORTHBOUND TRAFFIC SIGNAL  
NORTHEAST QUADRANT  
EX. MA-1 (22')



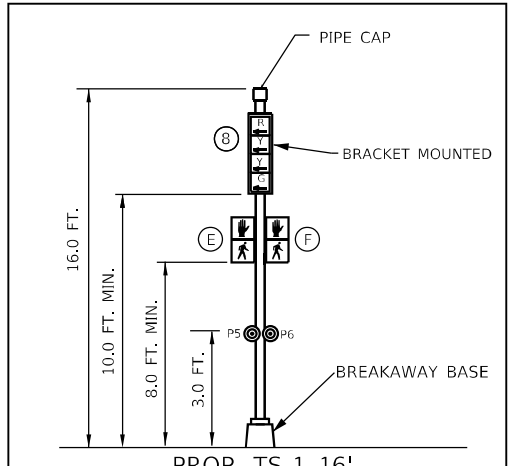
EASTBOUND TRAFFIC SIGNAL  
SOUTHEAST QUADRANT  
PROP. MA-2 (36')



SOUTHBOUND TRAFFIC SIGNAL  
SOUTHWEST QUADRANT  
PROP. MA-3 (24')



EASTBOUND TRAFFIC SIGNAL  
SOUTHEAST QUADRANT  
PROP. MA-4 (32')  
(INSTALLED ON EX. FOUNDATION)  
SEE NOTE



PROP. TS-1 16'  
WESTBOUND TRAFFIC SIGNAL  
SOUTHWEST QUADRANT

"R" INDICATES RELOCATE ITEM

- NOTES:
1. THE CONTRACTOR SHALL RELOCATE ALL OTHER EXISTING SIGNS FROM THE REMOVED MAST ARMS AND TRAFFIC SIGNAL POSTS TO THE PROPOSED MAST ARMS AND TRAFFIC SIGNAL POSTS. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED MAST ARMS AND TRAFFIC SIGNAL POSTS.
  2. THE CONTRACTOR SHALL INSPECT THE EXISTING ANCHOR BOLT PATTERN FOR MA-4 PRIOR TO ORDERING MATERIAL. THE CONTRACTOR SHALL VERIFY THAT THE PROPOSED MA-4 IS COMPATIBLE WITH THE EXISTING ANCHOR BOLT PATTERN.
  3. THE CONTRACTOR SHALL PICK UP FOUR ROADWAY LUMINAIRES FROM THE CITY OF PEORIA PUBLIC WORKS DEPARTMENT AT 3505 N. DRIES LN. PEORIA, IL 61604 AND INSTALL TWO ON MA-2 AND TWO ON MA-4 AS SHOWN IN THE PLANS.
  4. COMBINATION MAST ARMS SHALL BE EQUIPPED WITH DUAL 15 FT. LUMINAIRE ARMS. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF THE COMBINATION MAST ARMS.

NOTE: ONLY ONE OF THE TWO PROPOSED LUMINAIRES (ORIENTED 90 DEGREES APART) IS SHOWN IN THIS DETAIL

NOTE: ONLY ONE OF THE TWO PROPOSED LUMINAIRES (ORIENTED 90 DEGREES APART) IS SHOWN IN THIS DETAIL

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PROPOSED MAST ARM AND TRAFFIC SIGNAL POST DETAILS  
IL 8/IL 116 (MACARTHUR HWY.) & SW WASHINGTON ST. - PEORIA

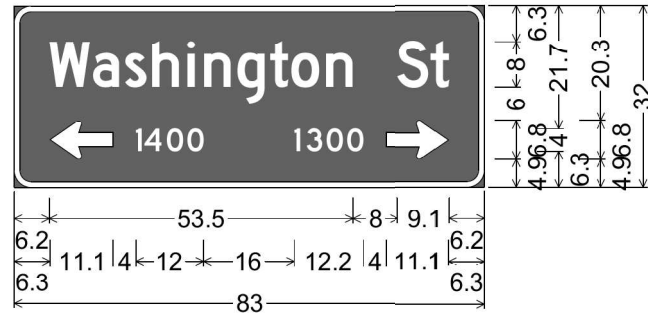
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	D4 MAST ARM REPLACEMENT 2023-I	PEORIA	17	14
CONTRACT NO. 68H56				

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PLOT DATE = 12/15/2022	CHECKED -	REVISED -
	DATE -	REVISED -

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NOT TO SCALE

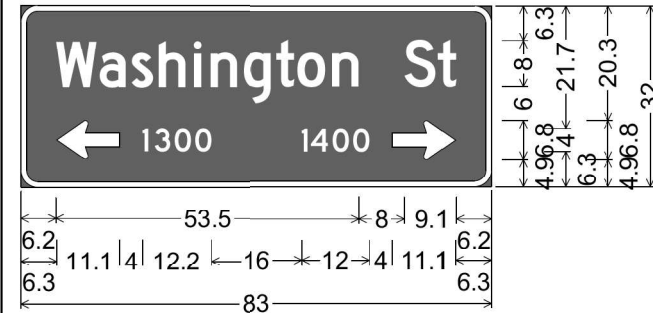


3.0" Radius, 1.0" Border, White on Green;  
 "Washington", D 2K; "St", D 2K;  
 Standard Arrow Custom 11.1" X 6.8" 180°;  
 "1400", D 2K; "1300", D 2K;  
 Standard Arrow Custom 11.1" X 6.8" 0°;

Table of distances between letter and object lefts

6.2	W	7.7	a	5.6	4.8	6.3	2.9	5.9	5.7	3.7	6.2	n
			S	12.7	t	5.9	3.2	6.2				
6.3	←	15.1	1	1.6	3.9	3.6	0	0				
			1	18.9	2.2	3.5	3.6	6.9	11.1	6.3	→	

INSTALL ON EX. MA-1



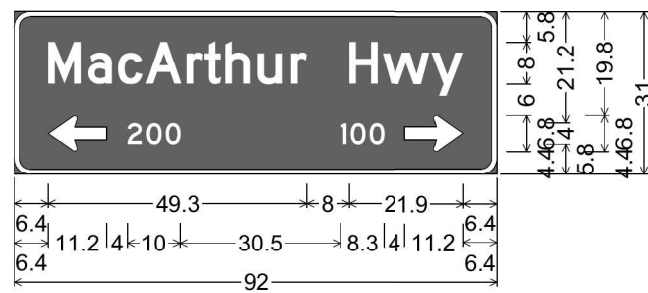
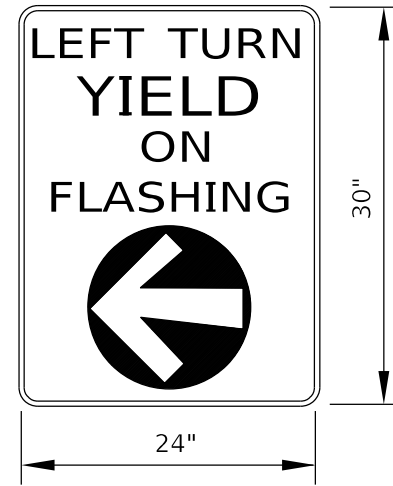
3.0" Radius, 1.0" Border, White on Green;  
 "Washington", D 2K; "St", D 2K;  
 Standard Arrow Custom 11.1" X 6.8" 180°;  
 "1300", D 2K; "1400", D 2K;  
 Standard Arrow Custom 11.1" X 6.8" 0°;

Table of distances between letter and object lefts

6.2	W	7.7	a	5.6	4.8	6.3	2.9	5.9	5.7	3.7	6.2	n
			S	12.7	t	5.9	3.2	6.2				
6.3	←	15.1	1	2.2	3.6	3.6	0	0				
			1	18.8	1.6	3.9	3.6	6.9	11.1	6.3	→	

INSTALL ON PROP. MA-3

FLASHING YELLOW ARROW SIGN

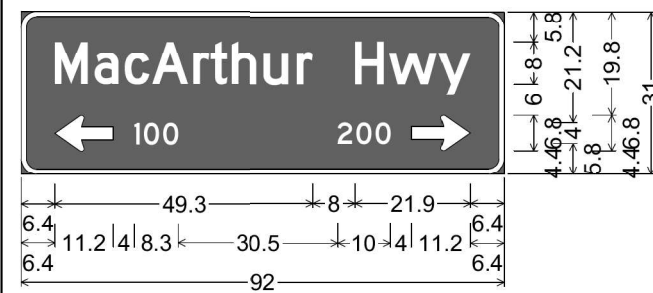


3.0" Radius, 1.0" Border, White on Green;  
 "MacArthur", D 2K; "Hwy", D 2K;  
 Standard Arrow Custom 11.1" X 6.8" 180°;  
 "200", D 2K; "100", D 2K;  
 Standard Arrow Custom 11.1" X 6.8" 0°;

Table of distances between letter and object lefts

6.4	M	7.6	a	5.8	5.2	7.8	3.3	4.1	6.1	6.3	r	
			H	11.1	w	6.5	9.4	6.0	6.4			
6.4	←	15.2	2	3.5	3.6	33.4	1.9	3.6	6.8	11.2	6.4	→

INSTALL ON PROP. MA-2



3.0" Radius, 1.0" Border, White on Green;  
 "MacArthur", D 2K; "Hwy", D 2K;  
 Standard Arrow Custom 11.1" X 6.8" 180°;  
 "100", D 2K; "200", D 2K;  
 Standard Arrow Custom 11.1" X 6.8" 0°;

Table of distances between letter and object lefts

6.4	M	7.6	a	5.8	5.2	7.8	3.3	4.1	6.1	6.3	r	
			H	11.1	w	6.5	9.4	6.0	6.4			
6.4	←	15.2	1	1.9	3.6	33.3	3.6	3.6	6.8	11.2	6.4	→

INSTALL ON PROP. MA-4

NOT TO SCALE

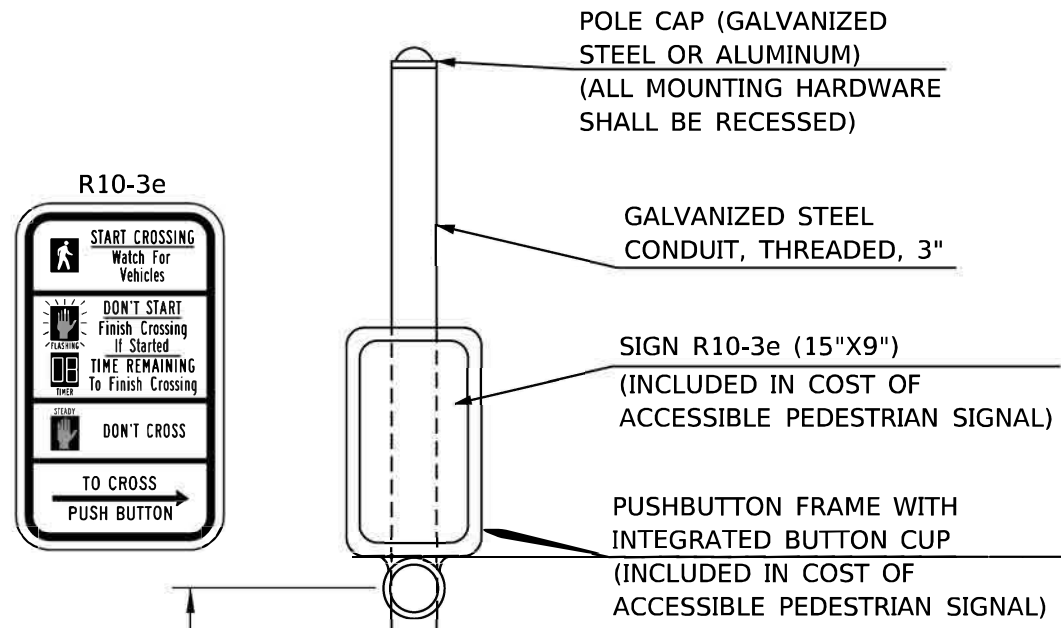
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	DATE -	REVISED -

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 DEPARTMENT OF TRANSPORTATION

PROPOSED SIGN PANEL TYPE II DETAIL			
SCALE:	SHEET	OF	SHEETS
	STA.		TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	D4 MAST ARM REPLACEMENT 2023-1	PEORIA	17	15
CONTRACT NO. 68H56			ILLINOIS FED. AID PROJECT	



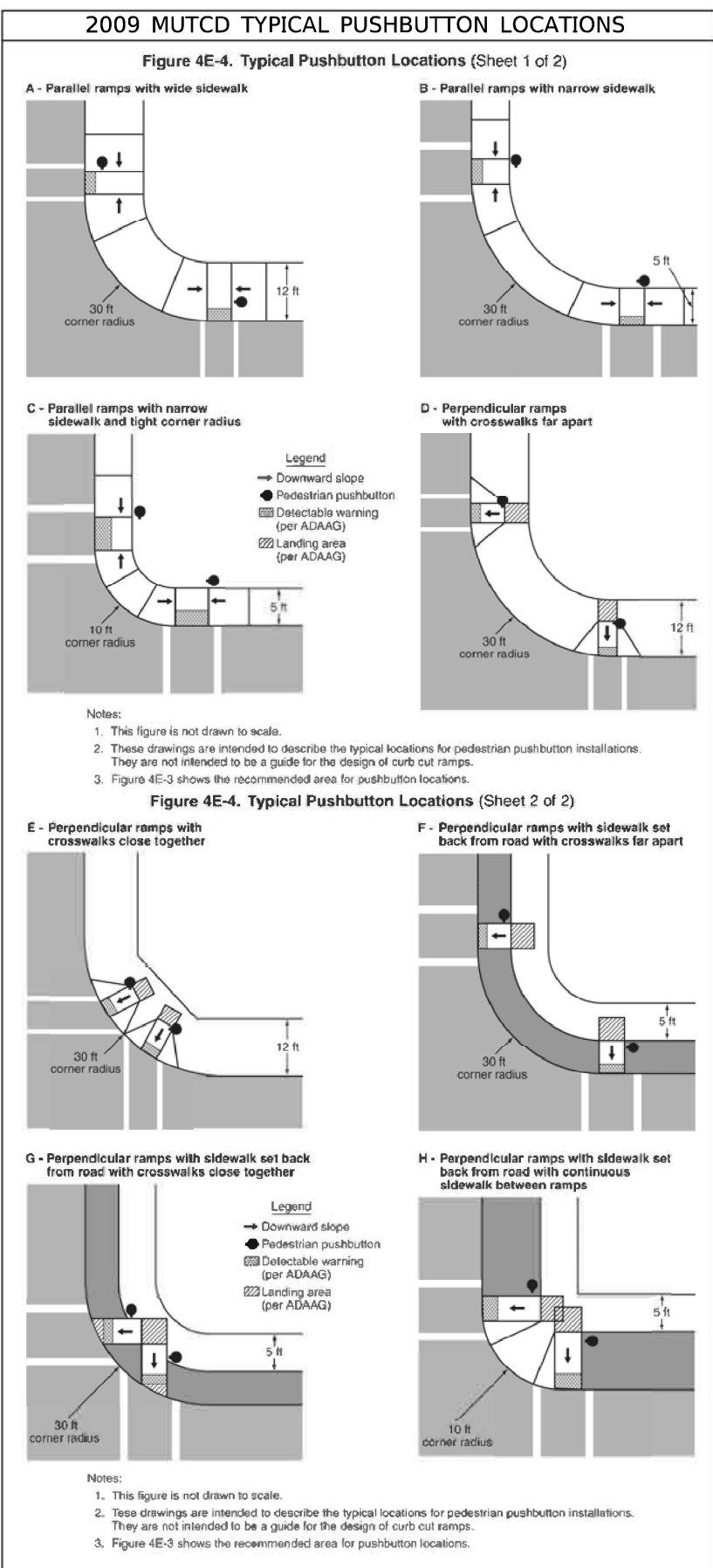
42" MAX.  
30" MIN.

- NOTES:**
1. PEDESTRIAN PUSHBUTTONS SHALL BE LOCATED IN ACCORDANCE WITH THE 2009 MUTCD. THE COST TO MODIFY OR RELOCATE ANY PUSHBUTTONS THAT WERE NOT INSTALLED ACCORDING TO MUTCD REQUIREMENTS AND CONTRACT SPECIFICATIONS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. FOR ALL INSTALLATIONS, THE REACH RANGE (DISTANCE BETWEEN THE FACE OF PEDESTRIAN PUSHBUTTON AND THE CLEAR SPACE) SHALL NOT EXCEED 10 INCHES.
  2. PEDESTRIAN PUSHBUTTON SIGN (R10-3E) SHALL BE CONSTRUCTED USING TYPE ZZ RETROREFLECTIVE SHEETING IN ACCORDANCE WITH ART. 1091.03.
  3. THE PEDESTRIAN PUSHBUTTON POSTS DETAILED ON THIS SHEET SHALL BE PAID FOR AS "PEDESTRIAN PUSH-BUTTON POST."
  4. FOR LOCATIONS WITH TWO PEDESTRIAN PUSHBUTTONS ON A SINGLE TRAFFIC SIGNAL POST OR PEDESTRIAN PUSHBUTTON POST, THE CONTRACTOR SHALL FURNISH AND INSTALL A SINGLE MOUNTING BRACKET THAT HOUSES BOTH PEDESTRIAN PUSHBUTTON FRAMES, WITH INTEGRATED CUPS, AT A 90 DEGREE ANGLE FROM EACH OTHER. THE COST OF THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE BID PRICE FOR THE PAY ITEM ACCESSIBLE PEDESTRIAN SIGNALS.

THESE REQUIREMENTS APPLY TO ALL PEDESTRIAN PUSHBUTTON INSTALLATIONS, INCLUDING PEDESTRIAN PUSHBUTTON POSTS, TRAFFIC SIGNAL POSTS, AND MAST ARM STRAIN POLE INSTALLATIONS.

- POLE CAP (GALVANIZED STEEL OR ALUMINUM) (ALL MOUNTING HARDWARE SHALL BE RECESSED)
- GALVANIZED STEEL CONDUIT, THREADED, 3"
- SIGN R10-3e (15"X9") (INCLUDED IN COST OF ACCESSIBLE PEDESTRIAN SIGNAL)
- PUSHBUTTON FRAME WITH INTEGRATED BUTTON CUP (INCLUDED IN COST OF ACCESSIBLE PEDESTRIAN SIGNAL)
- THREADED PIPE FLANGE, 7.5" DIA. GALVANIZED STEEL (CLASS 150)
- LEVELING NUT, GALVANIZED STEEL X 4 - TO ALLOW WATER EGRESS (MAX. 1/4" GAP BETWEEN FLANGE AND CONCRETE FOUNDATION)
- 5/8"X12" GALVANIZED STEEL ANCHOR BOLT X 4 (6" BOLT CIRCLE)
- CONCRETE FOUNDATION, 12" DIA. X 30"

**PEDESTRIAN PUSHBUTTON POST**



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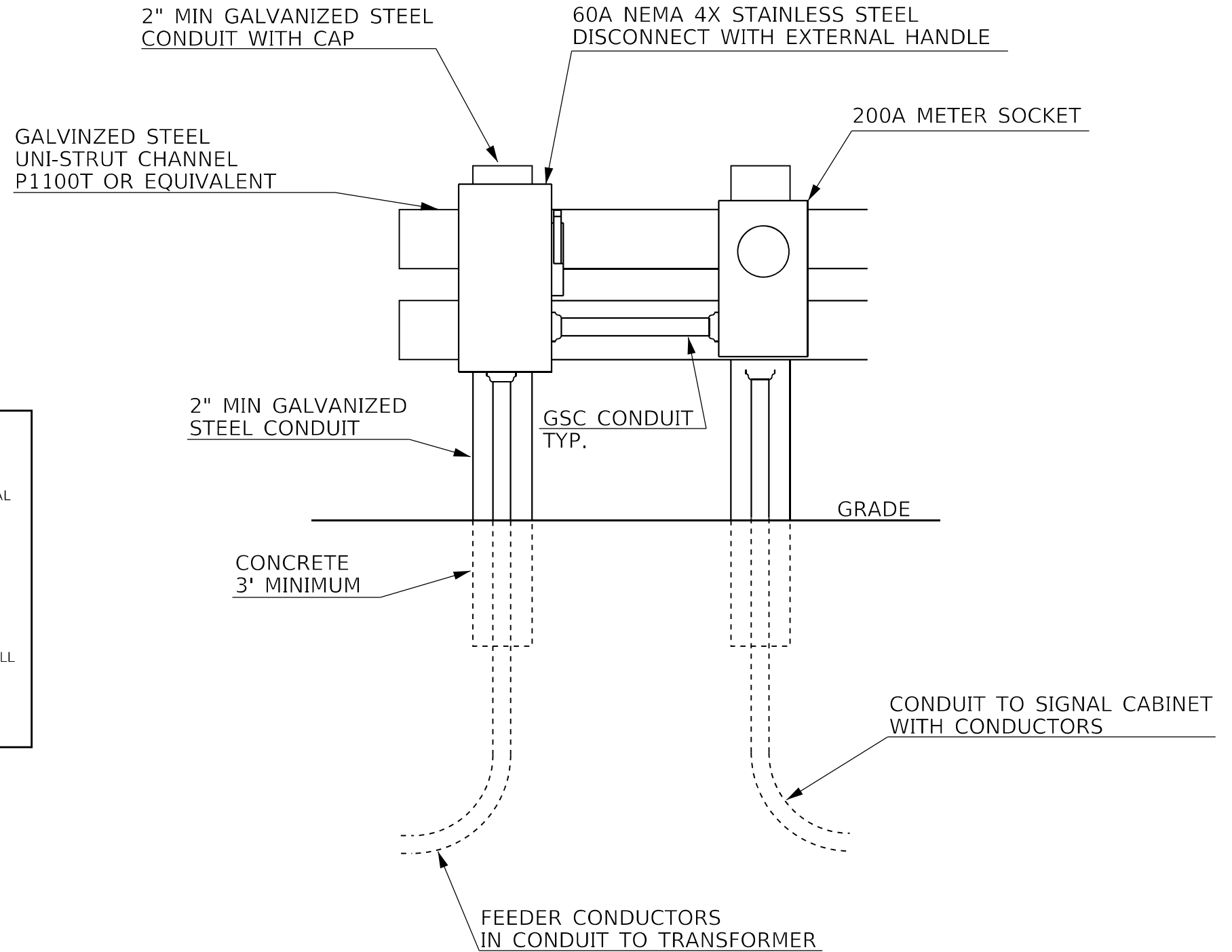
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PEDESTRIAN PUSHBUTTON POST DETAIL**  
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	D4 MAST ARM REPLACEMENT 2023-1	PEORIA	17	16
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68H56	



## ELECTRIC SERVICE INSTALLATION



- NOTES:**
1. THE COST OF THE UNDERGROUND SERVICE CABLE/ CONDUIT FROM THE EXISTING TRANSFORMER TO THE PROPOSED ELECTRICAL SERVICE AND SERVICE CABLE/ CONDUIT FROM THE ELECTRICAL SERVICE TO THE SIGNAL CONTROLLER SHALL BE INCLUDED IN THE COST OF THE PROPOSED ELECTRICAL SERVICE INSTALLATION, SPECIAL.
  2. THE CONTRACTOR SHALL VERIFY UTILITY COMPANY SERVICE INSTALLATION REQUIREMENTS, THERE WILL BE NO ADDITIONAL COMPENSATION TO ACCOMMODATE ADDITIONAL REQUIREMENTS NOT SHOWN IN THE PLANS.
  3. THE PROPOSED ELECTRICAL SERVICE INSTALLATION SHALL BE LOCATED WITHIN 15 FT. OF THE PROPOSED TRAFFIC SIGNAL CONTROLLER CABINET AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS.

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ELECTRIC SERVICE INSTALLATION, SPECIAL DETAIL**

SCALE:      SHEET      OF      SHEETS      STA.      TO      STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	D4 MAST ARM REPLACEMENT 2023-1	PEORIA	17	17
CONTRACT NO. 68H56				
ILLINOIS FED. AID PROJECT				