



**TEMPORARY WIRELESS INTERCONNECT INSTALLATION (OPTION)**

- POLE HEIGHT AND RADIO MOUNTING LOCATIONS SHALL BE SUFFICIENT TO PROVIDE A CLEAR LINE OF SIGHT BETWEEN LOCATION #1 AND LOCATION #3. WOOD POLES SHALL SATISFY THE REQUIREMENTS OF ARTICLE 830.03(c) OF THE STANDARD SPECIFICATIONS.

\*\* EXACT LOCATIONS TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR.

**INTERCONNECT AND UTILITY SCHEMATIC**

NOT TO SCALE

**LEGEND**

- EXISTING CONTROLLER
- EXISTING MASTER CONTROLLER
- EXISTING DOUBLE HANDHOLE
- EXISTING HANDHOLE
- HEAVY DUTY HANDHOLE
- G.S. CONDUIT IN TRENCH OR PUSHED
- INTERSECTION AND SAMPLING (SYSTEM) DETECTOR LOOP
- TELEPHONE
- TEMPORARY RADIO INTERCONNECT ANTENNA
- TEMPORARY WOOD POLE

**NOTES**

- EXISTING FIBER OPTIC CABLE AND TRACER CABLE SHALL BE PULLED OUT OF THE EXISTING CONDUIT, STARTING AT THE EXISTING CONTROLLER BOX AT HALSTED RD (IL RTE 1) AND RIDGE ROAD (LOCATION #1), ALL THE WAY TO THE FIRST HANDHOLE SOUTH OF THE BRIDGE (LOCATION #2); HERE THE CABLES CAN BE STORED AND PROTECTED FOR REINSTALLATION (FOR WIRELESS INTERCONNECT OPTION). THIS WILL BE MEASURED AND PAID FOR AS "REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT".
- FOR TEMPORARY OVERHEAD INTERCONNECT LOCATE EXISTING INTERCONNECT HANDHOLE (LOCATION #2) IMMEDIATELY NORTH AND SOUTH OF BRIDGE STRUCTURE. INSTALL TEMPORARY WOOD POLE WITH MAXIMUM SPANS OF 250 FEET. SPLICE EXISTING FIBER CABLE AT HANDHOLE (LOCATION #2) AND INSTALL TEMPORARY FIBER OVERHEAD BETWEEN WOOD POLES AND EXISTING HANDHOLE. THEN THE TEMPORARY FIBER CABLE WILL THEN BE REINSTALLED AND RECONNECTED INTO CONTROLLER CABINET AT RIDGE RD (LOCATION #1). THE TEMPORARY FIBER CABLE WILL BE PAID AS "FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM 12F." AFTER BRIDGE CONSTRUCTION IS COMPLETED AND NEW JUNCTION BOXES AND CONDUIT ARE IN PLACE, NEW FIBER OPTIC CABLE SHALL BE PULLED IN THE CONDUIT FROM LOCATION #1 TO LOCATION #3 AND RECONNECTED TO THE RESPECTIVE CONTROLLERS. THIS WILL BE MEASURED AND PAID AS "FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM 12F."
- THE CONTRACTOR SHALL ALSO EITHER REINSTALL THE REMOVED TRACER CABLE, OR FURNISH AND INSTALL NEW TRACER CABLE (NO. 14, 1/C). NO ADDITIONAL COMPENSATION WILL BE MADE FOR THE WORK ASSOCIATED WITH THE TRACER CABLE.
- REMOVAL OF FIBER OPTIC CABLE SHALL NOT BEGIN UNTIL ALL COMPONENTS OF THE TEMPORARY WIRELESS INTERCONNECT SYSTEM ARE IN PLACE AND OPERATIONAL.
- A NOMINAL QUANTITY OF 54 FEET OF NEW CONDUIT HAS BEEN PROVIDED AT EACH OF THE TWO JUNCTION BOX LOCATIONS, IN THE EVENT THAT CONDUIT IN THESE LOCATIONS NEEDS TO BE REMOVED AND REPLACED. REMOVAL OF THE EXISTING ROADWAY LIGHTING CONDUIT, IF NEEDED, SHALL BE PAID FOR AS "ROADWAY LIGHTING CONDUIT REMOVAL". REMOVAL OF THE EXISTING TRAFFIC SIGNAL INTERCONNECT CONDUIT, IF NEEDED, IS INCLUDED WITH THE CONTRACT UNIT PRICE BID FOR "JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12"X12"X6" ".
- ANY HARDWARE OR ACCESSORIES (CONNECTORS, EXPANSION COUPLINGS) REQUIRED TO ATTACH THE NEW CONDUIT TO THE NEW JUNCTION BOXES OR TO THE EXISTING CONDUIT WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED WITH THE CONTRACT UNIT PRICE BID FOR "CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED GALVANIZED STEEL".

SEE TRAFFIC SIGNAL SPECIFICATIONS AND SPECIAL PROVISIONS FOR MORE INFORMATION.

**SCHEDULE OF QUANTITIES**

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	511
81100605	CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED GALVANIZED STEEL	FOOT	54
81304100	JUNCTION BOX EMBEDDED IN STRUCTURE 12" X 12" X 6"	EACH	2
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2
87100620	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	FOOT	3500
87900200	DRILL EXISTING HANDHOLE	EACH	4
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2050
89502350	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	1450
X0325938	TEMPORARY WIRELESS INTERCONNECT, COMPLETE	L SUM	1
X0326133	TEMPORARY WOOD POLE, 45 FEET, CLASS 5	EACH	4
X0326364	TEMPORARY AERIAL CABLE WITH MESSENGER WIRE	FOOT	650

\* TEMPORARY WIRELESS INTERCONNECT PAY ITEMS

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 FILE NAME =  
 USER NAME =  
 MILLERNA PROFESSIONAL SERVICES

200 22ND Street, Suite 216, Lombard, IL 60148  
 630.705.8110 voice, 630.839.2566 fax  
 www.mps-ill.com

**MILLENNIA PROFESSIONAL SERVICES**

DESIGNED - CJD	REVISED -
DRAWN - CJD	REVISED -
CHECKED - TVN	REVISED -
DATE - 1/5/2012	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ILLINOIS ROUTE 1 (HALSTED ST)  
OVER IC RR (ABANDONED) (SN 016-2859)**

**INTERCONNECT SCHEMATICS**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
876	2011-032-BR	COOK	41	10B
CONTRACT NO. 60P38				

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

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

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