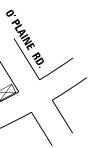


BILL OF MATERIAL							
CODE	PAY ITEM	UNIT	QUANTITY				
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	335				
81300830	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18" X 18" X 8"	EACH	2				
81400100	HANDHOLE	EACH	3				
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2				
87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	3630				
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	24				
88600100	DETECTOR LOOP, TYPE I	FOOT	66				
89502380	REMOVE EXISTING HANDHOLE	EACH	3				
X0325938	TEMPORARY WIRELESS INTERCONNECT, COMPLETE	L SUM	1				
X8710040	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM24F SM12F	FOOT	3630				
Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	2				
	CONDUIT ATTACHED TO STRUCTURE, 2" DIA. RIGID GALVANIZED STEEL, PVC COATED	FOOT	150				

- 3.
- 4. SEE SPECIFICATIONS AND SPECIAL PROVISIONS FOR MORE INFORMATION.
- 5. DIVISION OF TRANSPORTATION FOR THEIR REVIEW.
- BETWEEN THE NEW HANDHOLE PROVIDED AND EXISTING BRIDGE.
- 7. AS SPECIFIED IN SECTION 811 OF THE STANDARD SPECIFICATIONS.
- 8.

over		USER NAME = JPS	DESIGNED -	кс	REVISED -		IL 132 (GRAND AVE.) OVER DES PLAINES RIVER					F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.	
		DRAWN -	КС	REVISED -	STATE OF ILLINOIS	INTERCONNECT SCHEMATICS					541	X-6-B-I-1	LAKE	93 40		
	ENGINEERING LTD.	PLOT SCALE =	CHECKED -	MCH	REVISED -	DEPARTMENT OF TRANSPORTATION							CONTRACT	NO. 60N22		
¥		PLOT DATE = 12/19/2013	DATE -	12/17/13	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT	





INTERCONNECT SCHEMATIC LEGEND

EXISTING INTERSECTION CONTROLLER

- EXISTING MASTER CONTROLLER
- SAMPLING (SYSTEM) DETECTOR
- PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR
- EXISTING LOOP DETECTOR CABLE, 2/C TWISTED, SHIELDED
- EXISTING TRACER CABLE, NO. 14 1/C
 - PROPOSED INTERCONNECT CABLE NO. 62.5/125, 24F MULTIMODE AND 12F SINGLE MODE
 - PROPOSED LOOP DETECTOR CABLE, 2/C TWISTED, SHIELDED
 - EXISTING TELEPHONE CONNECTION

EXISTING FIBER OPTIC CABLE SHALL BE PULLED OUT OF THE EXISTING CONDUIT BETWEEN THE MASTER CONTROLLER AT IL RTE 21 (RIVERSIDE DR) AND O'PLAINE ROAD. EXISTING TRACER CABLE MAY BE DISCONNECTED AND PULLED BACK FROM THE RIVERSIDE CONTROLLER TO THE PROPOSED HANDHOLE IMMEDIATELY EAST OF THE BRIDGE OVER THE DES PLAINES RIVER AND SPOOLED AND PROTECTED AT THIS LOCATION FOR THE DURATION OF BRIDGE CONSTRUCTION. AFTER BRIDGE CONSTRUCTION IS COMPLETED AND NEW JUNCTION BOXES AND CONDUIT ARE INPLACE, THE EXISTING TRACER CABLE SHALL BE REINSTALLED IN THE CONDUIT TO THE RIVERSIDE CONTROLLER. IF TRACER CABLE IS NOT SALVAGEABLE, PROVIDE NEW 1C TRACER CABLE. THE REMOVAL OF EXISTING FIBER OPTIC CABLE AS WELL AS THE REMOVAL AND REINSTALLATION OF EXISTING TRACER CABLE SHALL NOT BE PAID FOR SEPERATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE NEW FIBER OPTIC CABLE.

2. AFTER BRIDGE CONSTRUCTION IS COMPLETED, INSTALL NEW 36 FIBER (24 MULTIMODE 12 SINGLEMODE) OPTIC CABLE BETWEEN THE IL 21 (RIVERSIDE DR.) CONTROLLER AND THE EXISTING CONTROLLER AT O'PLAINE RD.

ANY HARDWARE OR ACCESSORIES REQUIRED TO ATTACH THE NEW CONDUIT TO THE JUNCTION BOXES OR TO THE EXISTING CONDUIT WILL NOT BE PAID FOR SEPERATELY, BUT SHALL BE INCLUDED WITH THE CONTRACT UNIT PRICE BID FOR "CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED GALVANIZED STEEL."

CONTRACTOR MUST NOTIFY LAKE COUNTY DIVISION OF TRANSPORTATION THAT THIS WORK WILL AFFECT THEIR ICON (FIBER) SYSTEM. TRAFFIC SIGNAL PLANS SHALL BE PROVIDED TO LAKE COUNTY

6. INTERCEPT EXISTING CONDUIT ON EACH SIDE OF THE BRIDGE AND PROVIDE A NEW HANDHOLE IN A LOCATION WHICH WILL NOT BE DISTURBED DURING BRIDGE CONSTRUCTION. REMOVE ANY EXISTING HANDHOLES AND CONDUIT

THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL PROPOSED MATERIALS FOR INSTALLING EXPOSED RACEWAYS

THE EXPOSED CONDUIT ACROSS THE STRUCTURE SHALL BE ATTACHED TO THE UNDERSIDE OF THE CANTILEVERED SIDEWALK / EXTENDED BRIDGE DECK AS SHOWN ON THE STRUCTURAL PLANS. THIS PLACEMENT WILL CONTINUE ONTO THE PRECAST BRIDGE APPROACH SLABS ON EACH SIDE OF THE STRUCTURE. THE JUNCTION CABINET SHALL BE ATTACHED TO THE CAST-IN-PLACE UNDERSIDE OF THE CANTILEVERED SIDEWALK AND OUTER SIDE OF THE CONCRETE WEARING SURFACE WHICH ARE CONSTRUCTED ATOP THE PRECAST BRIDGE APPROACH SLAB. THE CONTRACTOR SHALL PROVIDE WORKING DRAWINGS THAT DETAIL ALL CONDUIT AND JUNCTION BOX ATTACHMENTS TO THE STRUCTURE.