FIBER OPTIC COMMUNICATION SYSTEM
SCHEDULE OF QUANTITIES

DE NO.	PAY ITEM	UNIT	QUANTITY
80100	DETECTOR LOOP, TYPE I	FOOT	1620 △1
200500	GALVANIZED STEEL CONDUIT IN TRENCH 2"	FOOT	15049
200910	GALVANIZED STEEL CONDUIT IN TRENCH 4"	FOOT	12
201000	GALVANIZED STEEL CONDUIT IN TRENCH 5"	FOOT	20
201500	GALVANIZED STEEL CONDUIT, PUSHED 2"	FOOT	1301
201900	GALVANIZED STEEL CONDUIT, PUSHED 4"	FOOT	120
202000	GALVANIZED STEEL CONDUIT, PUSHED 5"	FOOT	120
210500	ELECTRIC CABLE IN CONDUIT NO. 14 2/C, TWISTED, SHIELDED	FOOT	2040 △1
270400	CONCRETE HANDHOLE	EACH	29 △1
280500	CONCRETE DOUBLE HANDHOLE	EACH	3
301000	TRENCH AND BACKFILL	FOOT	16250
450210	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	4590 △1
520100	DRILL EXISTING HANDHOLE	EACH	14 △1
540050	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125 12F	FOOT	26100 △1

NOTES:

1. QUANTITIES FOR INTERSECTION ITEMS ARE INCLUDED ON THE TRAFFIC SIGNAL CABLE PLANS FOR ST. MARY'S ROAD.
2. ONLY ABANDONED ELECTRIC CABLE SHALL BE PULLED FROM THE CONDUITS THAT REMAIN USE.

NOTES:

AN ECONOLITE FULL-ACTUATED CONTROLLER AND CABINET AND TRANSCEIVER (FIBER-OPTIC), SHALL BE INSTALLED AT THE FOLLOWING INTERSECTIONS:

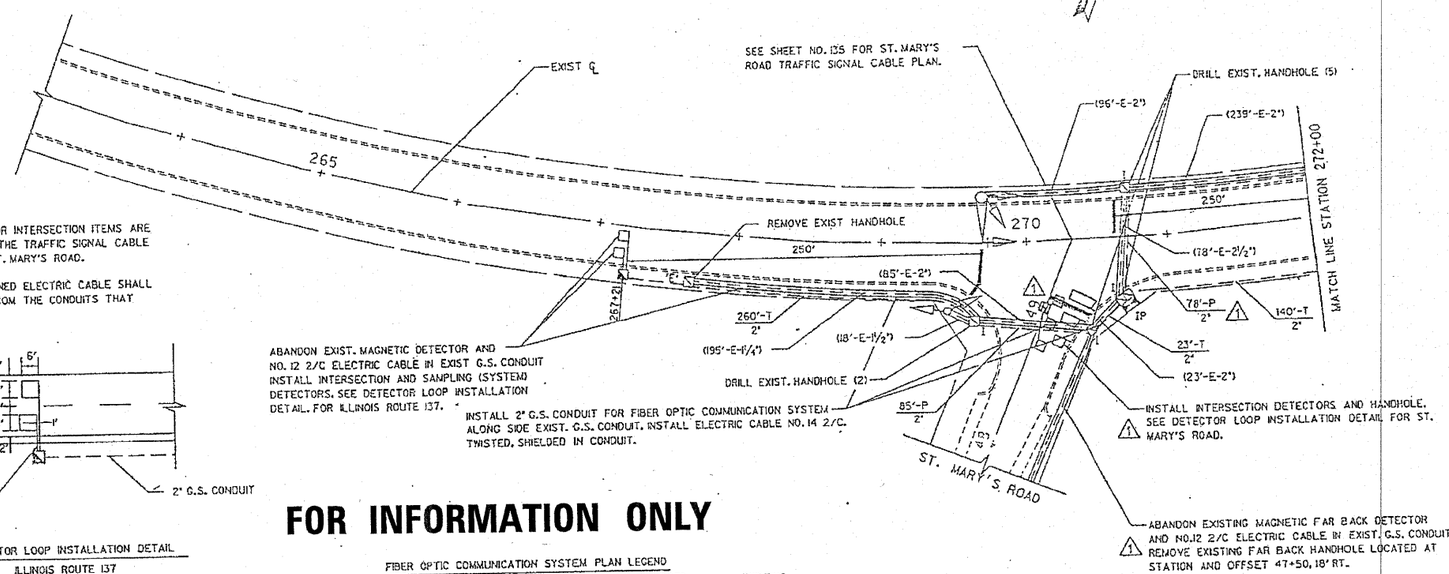
ST. MARY'S ROAD-IL. RTE 137
O'PLAINE ROAD-IL. RTE. 137
NORMAN DRIVE-IL. RTE. 43

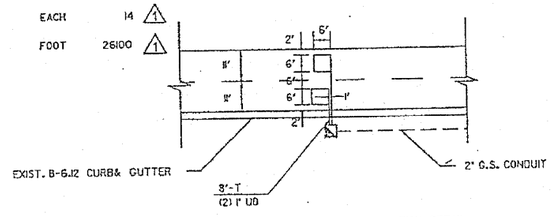
- INSTALL TRANSCEIVER-FIBER OPTIC IN EXISTING CONTROLLER CABINETS AT THE FOLLOWING INTERSECTIONS:

  RAMPS A AND B (TRI-STATE TOLLWAY)-IL. RTE. 137
  RAMPS C AND D (TRI-STATE TOLLWAY)-IL. RTE. 137
  ABBOTT GATE 3-IL. RTE. 137

- PROPOSED FIBER OPTIC COMMUNICATION SYSTEM WILL BE INSTALLED AND FULLY OPERATIONAL BEFORE DISCONNECTING AND REMOVING ANY EXISTING INTERCONNECT CABLE.
- IN ADDITION TO THE CABLE SLACK REQUIREMENTS AS STATED IN THE STANDARD SPECIFICATIONS, AN ADDITIONAL 15' FIBER OPTIC CABLE SLACK SHALL BE LEFT IN EACH HANDHOLE AND DOUBLE HANDHOLE, BETWEEN STATIONS 356+00 AND 396+00 ON ILLINOIS ROUTE 137 AND BETWEEN STATIONS 147+00 AND 182+00 ON ILLINOIS ROUTE 43.

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE 'ECONOLITE' TO MATCH THE EXISTING ADJACENT SYSTEM





DETECTOR LOOP INSTALLATION DETAIL
ILLINOIS ROUTE 137

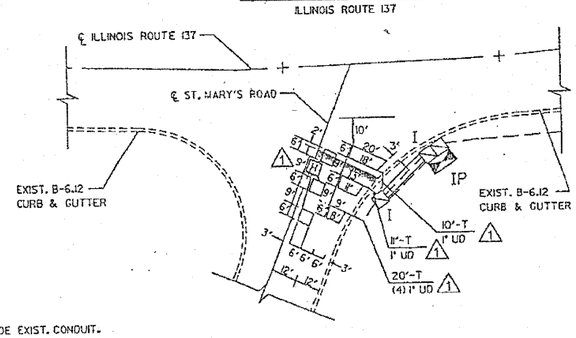
FOR INFORMATION ONLY

FIBER OPTIC COMMUNICATION SYSTEM PLAN LEGEND

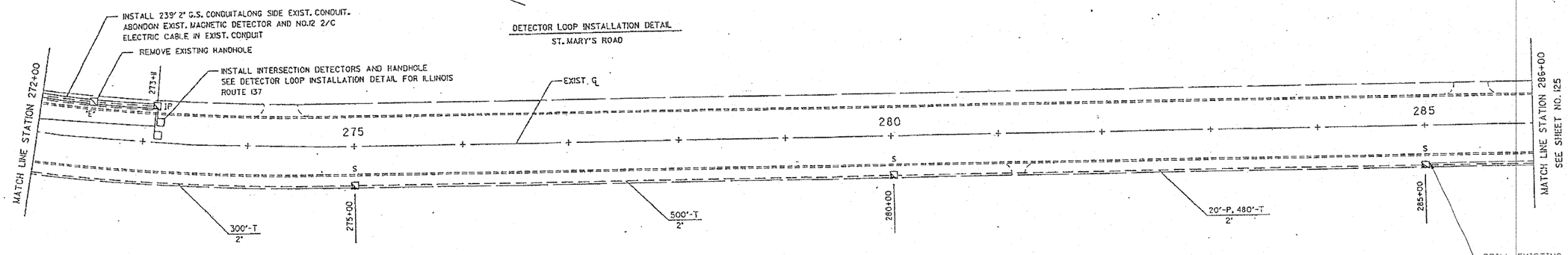
	PROPOSED	EXISTING
CONTROLLER		
HANDHOLE		
DOUBLE HANDHOLE		
HEAVY DUTY HANDHOLE		
G.S. CONDUIT IN TRENCH OR PUSHED		
DETECTOR LOOP		
COMMON TRENCH	CT	
UNIT DUCT	UD	
SYSTEM	S	
INTERSECTION	IP	I
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
MAST ARM POLE AND FOUNDATION		
SIGNAL POST		O
JUNCTION BOX		'E'

NOTES

1. TRAFFIC SIGNALS SHALL REMAIN FULLY OPERATIONAL DURING INSTALLATION OF PROPOSED TRAFFIC SIGNAL ITEMS
2. THE CONTRACTOR SHALL PLACE THE FIBER OPTIC COMMUNICATION SYSTEM HANDHOLES AND CONDUIT AS CLOSE TO THE RIGHT-OF-WAY LINE AS POSSIBLE OR, AS DIRECTED BY THE ENGINEER.



DETECTOR LOOP INSTALLATION DETAIL
ST. MARY'S ROAD



FILE NAME = $FILES$	USER NAME = $USER$	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL. ROUTE 137 @ O'PLAINE ROAD INTERCONNECT PLAN AND SCHEMATIC	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -			352	56N-4	LAKE	50	27
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -					CONTRACT NO. 60K19		
	PLOT DATE = $DATE$	DATE -	REVISED -		SCALE: 1" = 50' SHEET NO. OF SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		

...\P142609-shl-ts_interconnect plan 1.dgn 10/19/2010 10:04:16 AM