

DETECTOR LOOP INSTALLATION - CONSTRUCTION NOTES

1. DETECTOR LOOP REPLACEMENT QUANTITIES ARE ESTIMATED. THE CONTRACTOR SHALL ONLY REPLACE THE DETECTOR LOOPS THAT ARE DAMAGED BY THE MILLING PROCESS.
2. A TYPE II SPLICE SHALL BE USED FOR ALL DETECTOR LEAD-INS.
3. ALL DETECTOR LOOPS SHALL BE PLACED BACK INTO THEIR ORIGINAL LOCATIONS. ALL DETECTOR LOOPS SHALL BE INSTALLED IN THE CENTER OF THEIR RESPECTIVE TRAVEL LANES.
4. THE PROPOSED DETECTOR LOOPS SHALL BE CUT IN THE MILLED SURFACE OR LEVELING BINDER COURSE BEFORE THE FINAL OVERLAY.
5. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF TRAFFIC, RANDY LANINGA, AT (309) 671-4477 FORTY-EIGHT HOURS PRIOR TO BEGINNING MILLING OR PATCHING OPERATIONS.
6. THESE ITEMS SHALL BE INCLUDED IN THE BID PRICE FOR DETECTOR LOOP, TYPE I PAY ITEM. THERE WILL BE NO ADDITIONAL COMPENSATION.

CONTROLLER CABINET INSTALLATION - CONSTRUCTION NOTES

1. THE CONTRACTOR SHALL REMOVE THE EXISTING TRAFFIC SIGNAL CABINET AND DELIVER THE CABINET AND ITS CONTENTS TO THE IDOT TRAFFIC BUILDING LOCATED AT 1025 W. DETWEILLER DR., PEORIA. THE CONTRACTOR SHALL NOTIFY PAUL GRANT, AT (309) 671-4474 FORTY-EIGHT HOURS IN ADVANCE OF EQUIPMENT DELIVERY.
2. THE CONTRACTOR SHALL SCHEDULE THE REPLACEMENT OF THE TRAFFIC SIGNAL CABINET ONLY DURING THE HOURS OF 8:30 AM TO 3:00 PM MONDAY THROUGH FRIDAY.
3. THE CONTRACTOR WILL BE ALLOWED TO PLACE THE INTERSECTION INTO ALL-RED FLASH MODE AND ALL-WAY STOP CONTROL ONLY DURING THE HOURS SPECIFIED ABOVE TO FACILITATE THE INSTALLATION OF THE PROPOSED TRAFFIC SIGNAL CONTROLLER CABINET.
4. THE CONTRACTOR SHALL FURNISH AND INSTALL A MINIMUM OF TWO STOP SIGNS PER APPROACH WHEN THE INTERSECTION IS OPERATING IN ALL-RED FLASH MODE OR ALL-WAY STOP CONTROL.
5. THE CONTRACTOR SHALL GROUND AND SAFETY-BOND THE PROPOSED CONTROLLER CABINET IN ACCORDANCE WITH NEC REQUIREMENTS.
6. ALL COSTS (LABOR, MATERIALS, AND EQUIPMENT) ASSOCIATED WITH THESE REQUIREMENTS SHALL BE INCLUDED IN THE CONTRACT BID PRICE FOR THE TRAFFIC SIGNAL CABINET. THERE WILL BE NO ADDITIONAL COMPENSATION FOR THIS WORK.

CONSTRUCTION NOTES

1. ANY MAINTENANCE OF EXISTING TRAFFIC SIGNALS WILL BE CONSIDERED EXTRA WORK IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.
2. THE LOCATION OF ALL UTILITIES AND PRIVATELY OWNED FACILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO THE INSTALLATION OF ANY COMPONENTS.
3. 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.
4. ELECTRICAL WORK SHALL CONFORM WITH NATIONAL, STATE, AND LOCAL CODES.
5. ALL LOOP RISERS AFFECTED BY THE MILLING OPERATIONS SHALL BE REFLECTED THROUGH THE NEW SURFACE AND ALL LOOP RISERS SHALL BE CHIPPED OUT AND FILLED WITH EPOXY. THIS WORK WILL BE PAID FOR UNDER THE PAY ITEM FOR "ADJUST EXISTING DETECTOR LOOP RISER".
6. ALL TRAFFIC SIGNAL SECTIONS SHALL HAVE 12" SINGLE LED LENSES.
7. ALL TRAFFIC SIGNAL HEAD BRACKETS ARE TO BE ALUMINUM 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 "BOND TRAFFIC SIGNAL STRUCTURE" AND SHALL INCLUDE ALL LABOR, EQUIPMENT, AND MATERIALS (INCLUDING CLAMPS, HARDWARE, ELECTRICAL CABLE, AND ALL OTHER ITEMS REQUIRED TO BOND THE STRUCTURES).
9. A FIVE FOOT PIECE OF GREEN INSULATED #6 1/C XLP-USE CABLE SHALL BE USED TO CONNECT THE HANDHOLE LID TO THE FRAME. THE COST OF THIS WIRE SHALL BE INCLUDED IN THE CONTRACT BID PRICE FOR "BOND TRAFFIC SIGNAL STRUCTURE".
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. ALL SURPLUS MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS.
13. THE #18 3-PAIR TWISTED/SHIELDED CABLE SHALL HAVE THE SAME SLACK AS OTHER SIGNAL CABLE AND WILL BE MEASURED FOR PAYMENT.
14. ALL DETECTOR LOOPS SHALL UTILIZE A SEPARATE PAIR OF LEAD-INS AND A TYPE II SPLICE SHALL BE USED FOR ALL DETECTOR LEAD-INS.
15. THE COST OF ADJUSTING THE DETECTOR LOOP RISERS FOR THE PROPOSED DETECTOR LOOP WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE DETECTOR LOOP PAY ITEM.
16. 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.
17. REMOVAL OF EXISTING TRAFFIC SIGNAL ITEMS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE UNIT BID PRICES FOR THE PROPOSED ITEMS.

TRAFFIC SIGNAL SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	TOTAL	IL 29 (SECOND ST.) & DERBY ST.	IL 29 (SECOND ST.) & KOCH ST./ DISTILLERY RD.
SIGN PANEL - TYPE 1 (SPECIAL)	SQ FT	3.0	3.0	
CONDUIT IN TRENCH, 1 1/2" DIA, PVC	FOOT	5.0		5.0
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	5.0		5.0
FULL-ACTUATED CONTROLLER AND TY IV CABINET, SPL	EACH	1.0	1.0	
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	121.0	121.0	
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 18 3 PAIR	FOOT	31.0		31.0
DRILL EXISTING HANDHOLE	EACH	1.0		1.0
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1.0	1.0	
INDUCTIVE LOOP DETECTOR	EACH	5.0	4.0	1.0
DETECTOR LOOP, TYPE I	FOOT	904.0	514.0	390.0
REBUILD EXISTING SIGNAL HEAD, LED	EACH	2.0	2.0	
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	860.5	294.5	566.0
BOND TRAFFIC SIGNAL STRUCTURE	EACH	21.0	9.0	12.0
ADJUST EXISTING DETECTOR LOOP RISER	EACH	8.0	4.0	4.0