FAP ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	66-31	MONROE	45	23
STA.		TO STA.		
CONTRACT NO.: 76952				

ELECTRICAL GENERAL NOTES

1. ALL VEHICLE SIGNAL HEADS SHALL HAVE 12"SECTIONS. MOUNTING HARDWARE SHALL BE UNPAINTED ALUMINUM. ALL BOLTS, SCREWS, NUTS AND WASHERS SHALL BE STAINLESS STEEL. ANTI-SEIZE PASTE COMPOUND SHALL BE USED ON ALL MOUNTING HARDWARE FIELD CONNECTIONS.

2. BACKPLATES SHALL BE ABS PLASTIC.

3. THE LOCATION OF MAST ARM SUPPORTS SHALL BE APPROVED BY THE ENGINEER BEFORE FOUNDATIONS ARE CONSTRUCTED. MAST ARM POLES SHALL BE LOCATED A MINIMUM OF 10 FEET FROM THE EDGE OF PAVEMENT OR 2 FEET FROM THE EDGE OF SHOULDER, WHICHEVER DISTANCE IS GREATER. IN CURBED SECTIONS, THE MAST ARM POLES SHALL BE LOCATED A MINIMUM OF 10 FEET FROM THE EDGE OF PAVEMENT OR 2 FEET FROM THE EDGE OF SHOULDER, WHICHEVER DISTANCE IS GREATER. IN CURBED SECTIONS, THE MAST ARM POLES SHALL BE LOCATED A MINIMUM OF 5 FEET FROM THE FACE OF THE CURB. THESE DISTANCES ARE TO THE NEAR FACE OF THE MAST ARM POLE.

5. ALL TRAFFIC SIGNAL CABLES SHALL BE #14 AWG STRANDED COPPER UNLESS OTHERWISE SPECIFIED. TERMINAL ENDS SHALL HAVE CRIMPED-ON RING TONGUE CONNECTORS.

6. THE LOCATION OF ALL DETECTOR LOOPS SHALL BE APPROVED BY THE ENGINEER BEFORE ANY SLOTS ARE SAWED IN THE PAVEMENT.

7. DETECTOR LOOP LEAD-IN SPLICES SHALL BE MADE IN A HANDHOLE PER SECTION 873 OF THE STANDARD SPECIFICATIONS. CONDUCTORS SHALL BE SPLICED IN A RIGID MOLD FILLED WITH NON-HARDENING EPOXY FILLER. ROSIN-CORE SOLDER SHALL BE USED.

8. CALL CARRY-OVER SHALL FUNCTION ONLY WHEN THE RELATED PHASES ARE IN THE GREEN MODE.

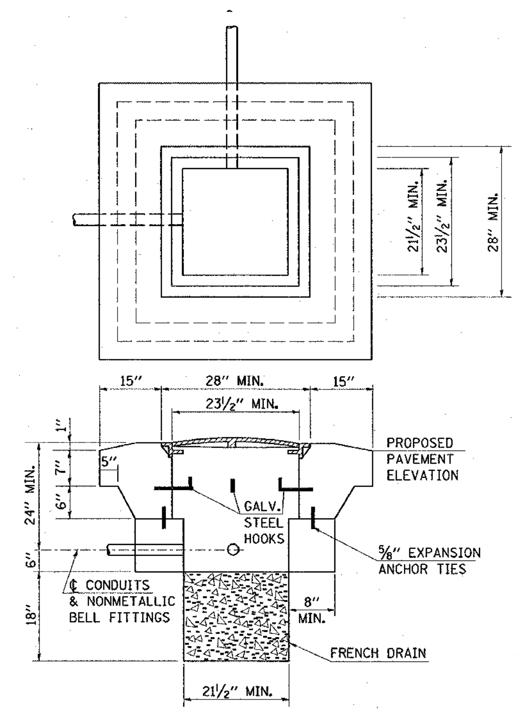
9. ALL INDUCTIVE LOOP DETECTORS SUPPLIED FOR THIS PROJECT SHALL HAVE THE CAPACITY OF OPERATING WITH BOTH DELAY AND EXTENSION MODES ACTIVE, IF A TIME SETTING IS PROGRAMMED. THEY SHALL BE RACK MOUNTED.

10. ALL HANDHOLES SHALL BE CAST-IN-PLACE PORTLAND CEMENT CONCRETE (PER ARTICLE 814.03(b)). THE CAST IN PLACE LEGEND IN THE COVER SHALL BE "TRAFFIC SIGNALS". SLOPE HANDHOLE COVERS TO MATCH PROPOSED GRADE ELEVATIONS.

11. LOCATE UNDERGROUND CABLES PRIOR TO ATTEMPTING TO CONSTRUCT THIS PROJECT.

12. THE DEPTH AND DIAMETER OF THE CONCRETE FOUNDATION FOR THE MAST ARM SUPPORT POLE IS AS FOLLOWS:
N-E CORNER: 20'-0" DEEP AND 36" DIAMETER

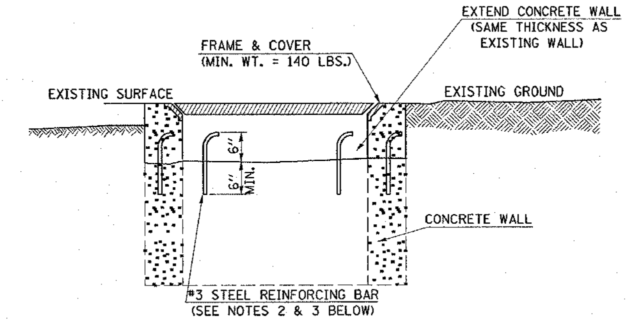
13. ABANDON EXISTING CONDUIT AND CABLES IN PLACE.



DETAIL D
REBUILD TO HEAVY DUTY HANDHOLE

NOTES:

1. USE 5⁄8" Ø EXPANSION ANCHOR TIES AT 6" CENTERS, 20 TOTAL. COST OF MATERIAL AND LABOR WILL BE INCIDENTAL TO REBUILD HEAVY DUTY HANDHOLE.
2. CANNOT EXCAVATE BELOW TOP OF EXISTING CONDUIT UNLESS OTHERWISE SPECIFIED TO BE REMOVED.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE THAT MAY OCCUR TO EXISTING CABLES.
4. THE MINIMUM WEIGHT OF THE FRAME AND COVER SHALL BE 260 LBS.
5. THIS DETAIL IS TO BE USED IN CONJUNCTION WITH STANDARD 814001, GENERAL NOTES AND THE SPECIAL PROVISION REBUILD EXISTING HANDHOLE TO HEAVY DUTY HANDHOLE.



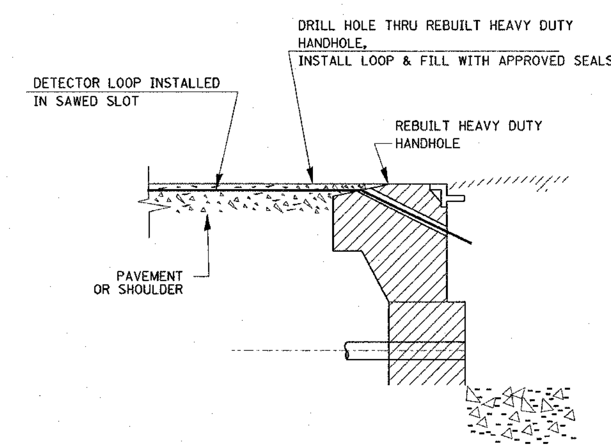
DETAIL F
REBUILD EXISTING HANDHOLE

NOTES:

1. REMOVE EXISTING FRAME AND COVER.
2. DRILL CONCRETE WALL (2 LOCATIONS PER WALL).
3. INSTALL REBAR AND GROUT.
4. RAISE/LOWER ELEVATION OF CONCRETE WALLS SO THAT THE TOP OF THE INSTALLED FRAME AND COVER WILL BE THE SAME GRADE AS THE TOP OF THE PROPOSED GRADE.
5. THIS DETAIL TO BE USED IN CONJUNCTION WITH STANDARD 814001, GENERAL NOTES AND THE SPECIAL PROVISIONS "REBUILD EXISTING HANDHOLE".
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE THAT MAY OCCUR TO THE EXISTING CABLES.

TRAFFIC SIGNALS LEGEND

Symbol	Description
GSC	GALVANIZED STEEL CONDUIT
PVCC	POLYVINYL CHLORIDE CONDUIT
	EXISTING SIGNAL POST
	EXISTING TRAFFIC SIGNAL MAST ARM
	EXISTING HANDHOLE
	EXISTING DOUBLE HANDHOLE
	EXISTING DETECTOR LOOP
	EXISTING CONTROLLER
	EXISTING STREET NAME SIGN/TRAFFIC SIGN
	EXISTING SERVICE INSTALLATION
	EXISTING GALVANIZED STEEL CONDUIT
	PROPOSED SIGNAL HEAD WITH BACKPLATE, MAST ARM MOUNTED
	PROPOSED HANDHOLE
	PROPOSED DOUBLE HANDHOLE
H	PROPOSED HEAVY DUTY HANDHOLE
	PROPOSED DETECTOR LOOP
	PROPOSED CONTROLLER
	PROPOSED CONDUIT: "T" TRENCH, "P" PUSH, SIZE SPECIFIED
	PROPOSED STREET NAME SIGN/TRAFFIC SIGN
	PROPOSED SIGNAL POST



DETAIL E
DETECTOR LOOP INSTALLED
IN SAWED HEAVY DUTY HANDHOLE SLOT
(NO SCALE)

NOTE:
DETECTOR LOOP INSTALLED IN SAWED SLOT IN SAWED HEAVY DUTY HANDHOLE SLOT SHALL BE INCLUDED IN PAY ITEM FOR DETECTOR LOOP, TYPE 1

ILLINOIS DEPARTMENT OF TRANSPORTATION

ELECTRICAL GENERAL NOTES, LEGEND AND DETAILS

FAP ROUTE 312
SECTION 66-31
MONROE COUNTY

PLOT DATE: 2/7/2006

$$DATE$$
2/7/2006
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REF
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