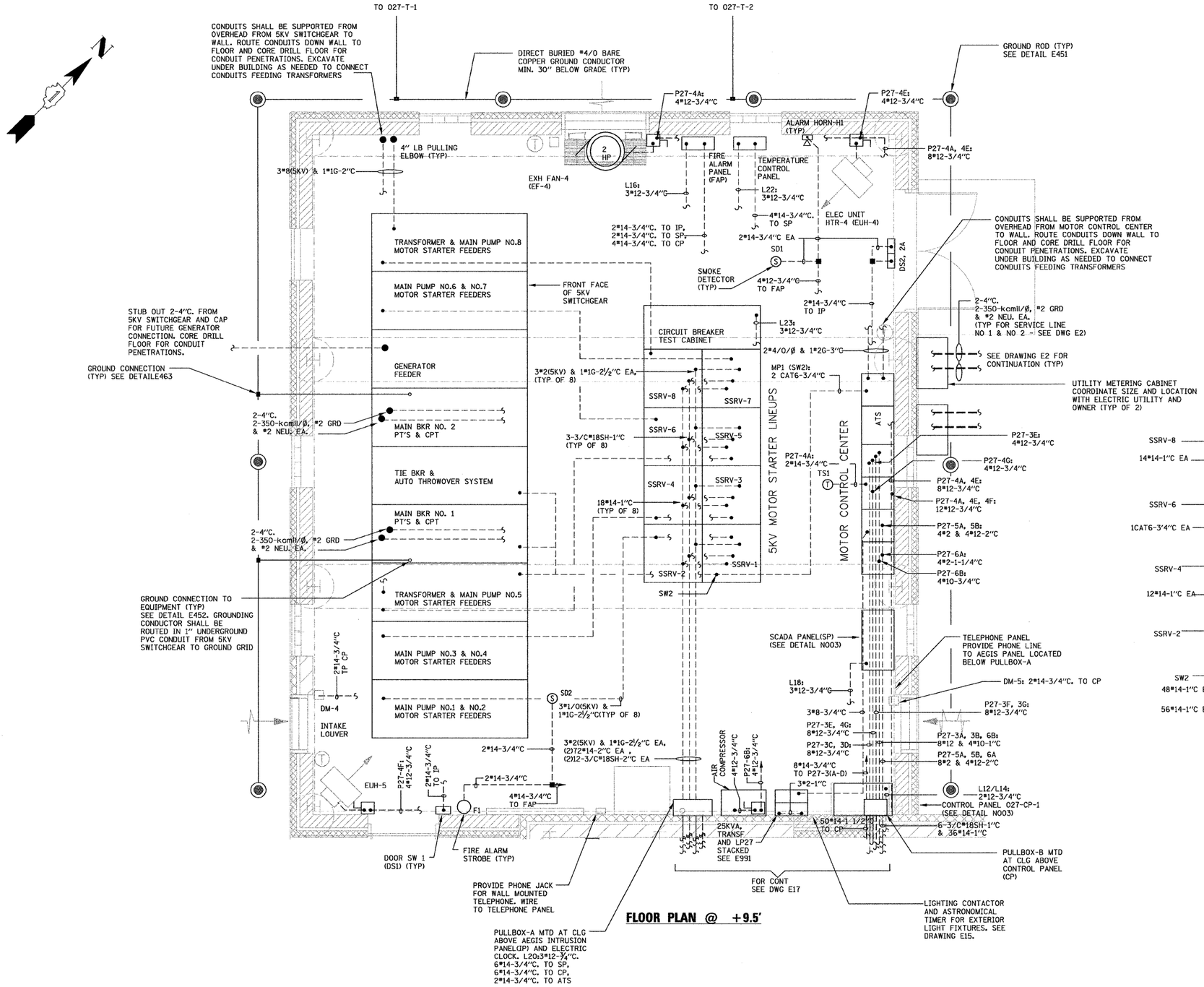
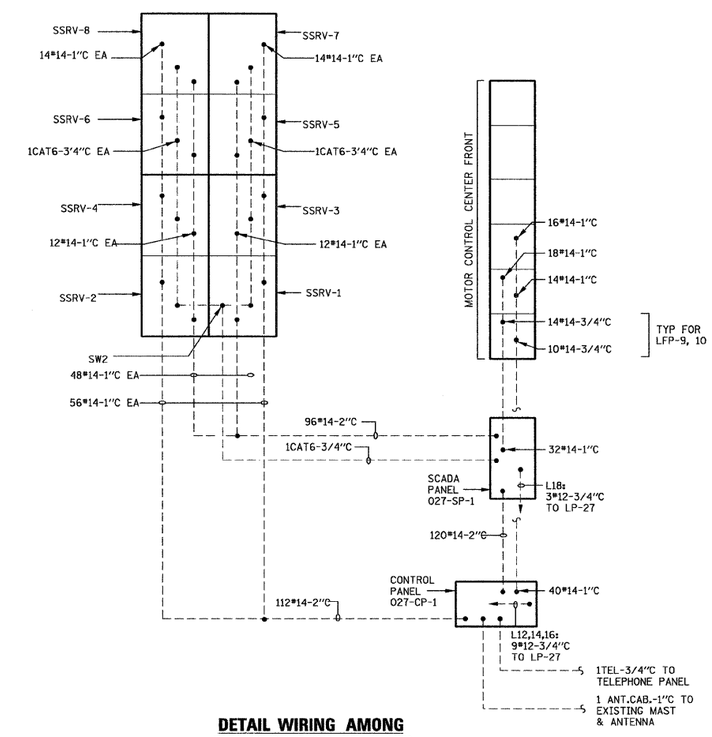
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	1213.4 A-T	COOK	63	47
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



FLOOR PLAN @ +9.5'

GENERAL NOTES:

1. ALL ELECTRICAL INSTALLATION IN THE PUMP STATION INCLUDING SUPERSTRUCTURE, TRASH CHAMBER, LOWER EVELS AND STAIRWAYS, SHALL MEET THE REQUIREMENTS OF NEC HAZARDOUS LOCATION CLASS 1, DIVISION 1, GROUP D; THOSE IN THE ELECTRICAL CONTROL ROOM SHALL BE NON-HAZARDOUS.
2. ALL CONTROL CABLES SHALL BE AWG NO. 14 STRANDED, UNLESS OTHERWISE NOTED.
3. ALL CONDUIT AND PIPE PENETRATIONS, THROUGH WALL AND/OR FLOOR SLAB, BETWEEN HAZARDOUS AND/OR NON-HAZARDOUS AREAS SHALL BE GROUTED GAS TIGHT.
4. ALL FLOOR & WALL PENETRATIONS SHALL BE CORE DRILLED & SEALED WITH NON-SHRINK GROUT. DO NOT CUT REBARS AT ALL CONCRETE CORING LOCATIONS.
5. "2/C#18SH" REPRESENTS "2 CONDUCTOR #18 SHIELDED CABLE".
6. STUB OUT 1 ½" CONDUIT 5'-0" FROM BUILDING FOR TELEPHONE SERVICE ENTRANCE. EXTEND EXISTING TELEPHONE SERVICE TO NEW PANEL.
7. CORE DRILL BUILDING WALL FOR EXTERIOR CONDUITS, PATCH TO MATCH EXISTING. PROVIDE SEALANT AROUND CONDUITS.
8. CONTRACTOR IS RESPONSIBLE FOR COORDINATING CONDUIT LOCATIONS WITH OTHER DISCIPLINES.
9. CONTRACTOR IS RESPONSIBLE FOR VERYIFYING CONDUIT AND CONDUCTOR SIZES AND QUANTITY PRIOR TO INSTALLATION.
10. LIGHT SWITCHES AND RECEPTACLES IN ELECTRICAL ROOM SHALL BE FLUSH MOUNTED.
11. CONDUIT SHALL BE ROUTED TO UTILITY METERING CABINET AND CONTINUE BELOW EXISTING BUILDING FLOOR TO 5KV SWITCHGEAR LOCATION. CONDUITS SHALL ENTER BUILDING BELOW 5KV SWITCHGEAR. COORDINATE CONDUIT ENTRY WITH EQUIPMENT. CORE DRILL EXISTING FLOOR FOR CONDUIT PENETRATIONS AND EXCAVATE FROM THE SOUTH SIDE OF THE BUILDING TO UNDERNEATH THE 5KV SWITCHGEAR AS NEEDED TO CONNECT CONDUITS ROM METERING CABINETS TO CONDUITS FROM 5KV SWITCHGEAR. METERING CABINETS PROVIDED BY CONTRACTOR IN ACCORDANCE WITH ELECTRIC UTILITY.



DETAIL WIRING AMONG 5KV STRS, MCC, CP & SP

NOT TO SCALE

E16

SCALE: 0 4 8 12

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PUMP STATION NO. 27 REHABILITATION

ELECTRICAL POWER PLANS SH. 1

SCALE: AS SHOWN DRAWN BY: MS

DATE: 04-23-10 CHECKED BY: MS

DONOHUE & ASSOCIATES