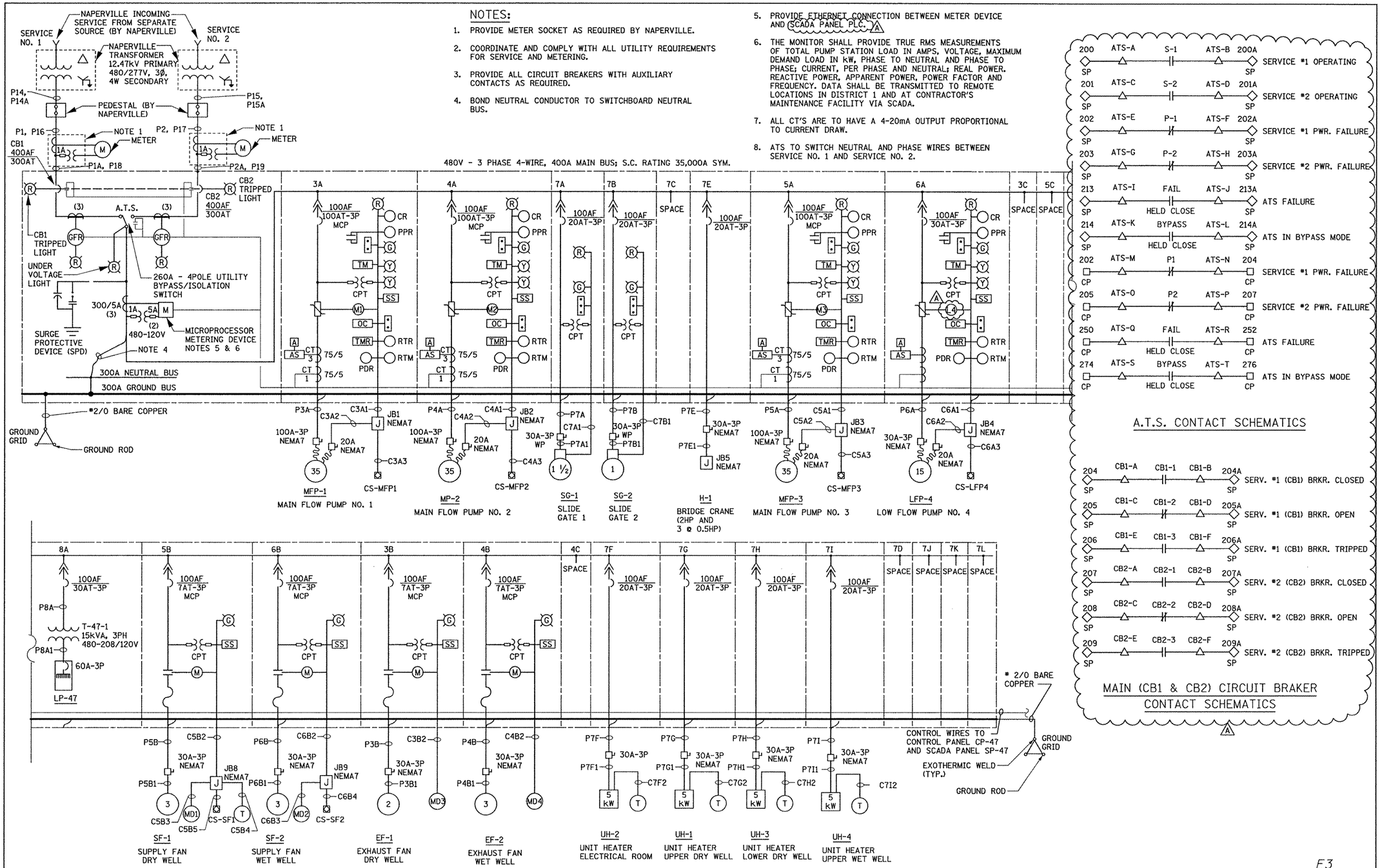
NOTES:

1. PROVIDE METER SOCKET AS REQUIRED BY NAPERVILLE.
2. COORDINATE AND COMPLY WITH ALL UTILITY REQUIREMENTS FOR SERVICE AND METERING.
3. PROVIDE ALL CIRCUIT BREAKERS WITH AUXILIARY CONTACTS AS REQUIRED.
4. BOND NEUTRAL CONDUCTOR TO SWITCHBOARD NEUTRAL BUS.
5. PROVIDE ETHERNET CONNECTION BETWEEN METER DEVICE AND SCADA PANEL PLC. (A)
6. THE MONITOR SHALL PROVIDE TRUE RMS MEASUREMENTS OF TOTAL PUMP STATION LOAD IN AMPS, VOLTAGE, MAXIMUM DEMAND LOAD IN kW, PHASE TO NEUTRAL AND PHASE TO PHASE; CURRENT, PER PHASE AND NEUTRAL; REAL POWER. REACTIVE POWER, APPARENT POWER, POWER FACTOR AND FREQUENCY. DATA SHALL BE TRANSMITTED TO REMOTE LOCATIONS IN DISTRICT 1 AND AT CONTRACTOR'S MAINTENANCE FACILITY VIA SCADA.
7. ALL CT'S ARE TO HAVE A 4-20mA OUTPUT PROPORTIONAL TO CURRENT DRAW.
8. ATS TO SWITCH NEUTRAL AND PHASE WIRES BETWEEN SERVICE NO. 1 AND SERVICE NO. 2.



E3

KNIGHT Engineers & Architects	USER NAME = $USER$	DESIGNED - MCP	REVISED ADDENDUM A 5-23-12	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PUMP STATION 47 MOTOR SWITCHBOARD AND CONTROL CENTER ONE LINE DIAGRAM	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - MLB	REVISED -			338/IL 59	2011-035-I	DUPAGE	181	159
	PLOT SCALE = $SCALE$	CHECKED - MCP	REVISED -			CONTRACT NO. 60P41				
	PLOT DATE = $DATE$	DATE 03-22-2012	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.	ILLINOIS FED. AID PROJECT				