

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(2SB-FAGH)I	IROQUOIS	14	10
FED. ROAD DIST. NO. - ILLINOIS		STATE AID PROJECT		

DESCRIPTION OF WORK

- (A) UTILITY METER, PER SERVING UTILITY REQUIREMENTS.
- (B) PANELBOARD, 250 AMP, 480Y/277 VAC, 3 PHASE, 4 WIRE, 42 POLE, 25000, AIR AT 480 VAC, SURFACE MOUNTED, BOLT-ON CIRCUIT BREAKERS, 250 AMP MAIN, 20" WIDE SOLID NEUTRAL AND GROUND BUS BARS, IN NEMA 1 ENCLOSURE, SQUARE D NF CLASS 1670 OR APPROVED EQUAL. INCLUDE ENGRAVED PHENOLIC LEGEND PLATE LABELED "480 Y/277 VAC, 3 PHASE, 4 WIRE." ALL METAL CONDUIT TERMINATIONS IN PANEL SHALL HAVE GROUNDING BUSHING WITH GROUND CONDUCTORS. CONNECT TO BUSHING AND RESPECTIVE PANEL GROUND BUS.
- (C) NEMA SIZE 2, COMBINATION MCP TYPE MOTOR STARTER, 480 VAC, 3 PHASE, RATED 14,000 AIC AT 480 VAC, IN NEMA 12 ENCLOSURE, SQUARE D CLASS 839 OR APPROVED EQUAL.
- (D) PUMP CONTROL PANEL
- (E) FLOAT CONTROL
- (F) 30 KVA DRY TYPE TRANSFORMER, 480 VAC, 3 PHASE, PRIMARY, 208Y/120- VAC, 3 PHASE, 4 WIRE, SECONDARY, 150° C RISE, 220° C INSULATION SYSTEM WITH COPPER WINDINGS, SQUARE D CLASS 7400, OR APPROVED EQUAL
- (G) PANELBOARD, 100 AMP, 208Y/120 VAC, 3 PHASE, 4 WIRE, 30 POLE, 10,000 AIC AT 240 VAC, SURFACE MOUNTED, BOLT ON CIRCUIT BREAKERS, 100 AMP MAIN CIRCUIT BREAKER, 20" WIDE WITH SOLID NEUTRAL AND GROUND BUS BARS, IN NEMA 1 ENCLOSURE, SQUARE D NQOD, CLASS 1630, OR APPROVED EQUAL. INLCUDE ENGRAVED PHENOLIC LEGEND PLATE LABELED (208Y/120 VAC, 3 PHASE, 4 WIRE.) ALL METAL CONDUIT TERMINATIONS IN PANEL SHALL HAVE GROUNDING BUSHING WITH GROUND CONDUCTORS. CONNECT TO THE BUSHING AND RESPECTIVE PANEL GROUND BUS.
- (H) DUPLEX RECEPTACLES GFCI
- (I) FLOAT SWITCHES
- (J) TOGGLE SWITCHES
- (K) SUMP PUMP 1½ HP MOTOR AND MOTOR CONTROLLER
- (L) LIGHT FIXTURE, FLUORESCENT, 2 LAMP, 32 W, T-8 LAMP, ENCLOSED FIBERGLASS HOUSE, UL LISTED FOR WET LOCATIONS, LITHONIA DMW-2-32-120 OR APPROVED EQUAL.
- (M) SUMP PUMP
- (N) 10" DIA. W.I. PIPE
- (O) 2000 GPM SUBMERSIBLE PUMP
- (P) 10" DIA. GATE VALVE
- (Q) 8" DIA. W.I. FLOAT PIPE
- (R) 2" DIA. W.I. DISCHARGE PIPE
- (S) 2" DIA. W.I. DRAIN PIPE (AREAWAY)
- (T) 2" DIA. W.I. FLOAT PIPE
- (U) 60 AMP. 480 VAC, NON-FUSED, 3 POLE, HEAVY DUTY SAFETY SWITCH IN NEMA 12 ENCLOSURE
- (V) SUMP LEAK SENSOR WITH BUNA N FLOAT AND STAINLESS STEEL STEM MOUNTING, MOUNT 2 INCHES ABOVE PIT FLOOR, GEMS LS-1700, P/N 01702, OR APPROVED EQUAL.
- (W) 14" X 14" HVAC DUCT
- (X) TRANSIENT VOLTAGE SURGE SUPPRESSOR (TVSS), 240 KA PER PHASE, 120 KA PER MODE, 12,000 IMPULSES PER MODE, LABELED UL 1449, 2ND EDITION LISTED.
- (Y) 250 CFM HVAC GRILL
- (Z) CHATTER BOX (TO REMAIN)

DATE: JANUARY 7, 2007
FILE: c:/projects/cmain08/cm309/details.dgn

REVISIONS	
NO.	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
**EQUIPMENT & ELECTRICAL
REPLACEMENT DETAILS**
FAP ROUTE 322 (IL 1) SECTION (2SB-FAGH)I
IROQUOIS COUNTY
MILFORD PUMP STATION
S.N. 038-0024