NOTES:

1. Medium Voltage "THRU" Bus
2. Disconnect Switch
3. Barriers to completely isolate cable compartment from main bus
4. Non-metallic cable support bracket
5. Compression lugs for overhead or below grade cable connections (NEMA standard 2 hole)
6. "Bus run back"
7. Ground bus, continuous throughout substation.
8. Kirk Key Main Interlock

The fire pump disconnecting means shall be in a dedicated fully-barricaded vertical section.

Paint the enclosure red

The breaker shall be capable of being locked in the closed (on) position

Conceal circuit breaker trip buttons behind cubicle door, or provide covers over trip buttons to prevent inadvertent trips

Equip with a reduced energy let-through feature, to reduce arc flash hazard during fire pump controller maintenance

Equip with an auxiliary dry contact to change state when the breaker has been opened, for remote supervisory monitoring by the building management system (BMS)

The cell position shall be monitored by the BMS, to change state when the breaker has been withdrawn from the cubicle

The breaker shall alarm only (not trip) upon detection of a ground fault

The key for the fire pump circuit breaker lock shall be stored in a key box within the substation room. UM utilities will provide the key box.

Phasing throughout shall be: X, Y, Z (A, B, C) left to right, top to bottom and/or front to back.

If secondary voltage is greater than 208/120 volts, provide control power transformer (CPT) with primary and secondary fuses.

If secondary voltage is greater than 208/120 volts, provide potential transformer for metering with primary and secondary fuses.

See specifications for special CT, ammeter and KWH meter requirements.

SINGLE ENDED SUBSTATION ELECTRICAL ONE-LINE DIAGRAM

No Scale - Reverse end-to-end when appropriate to match plan view

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