

REVISIONS

DATE	BY	DESCRIPTION
3/14/11		

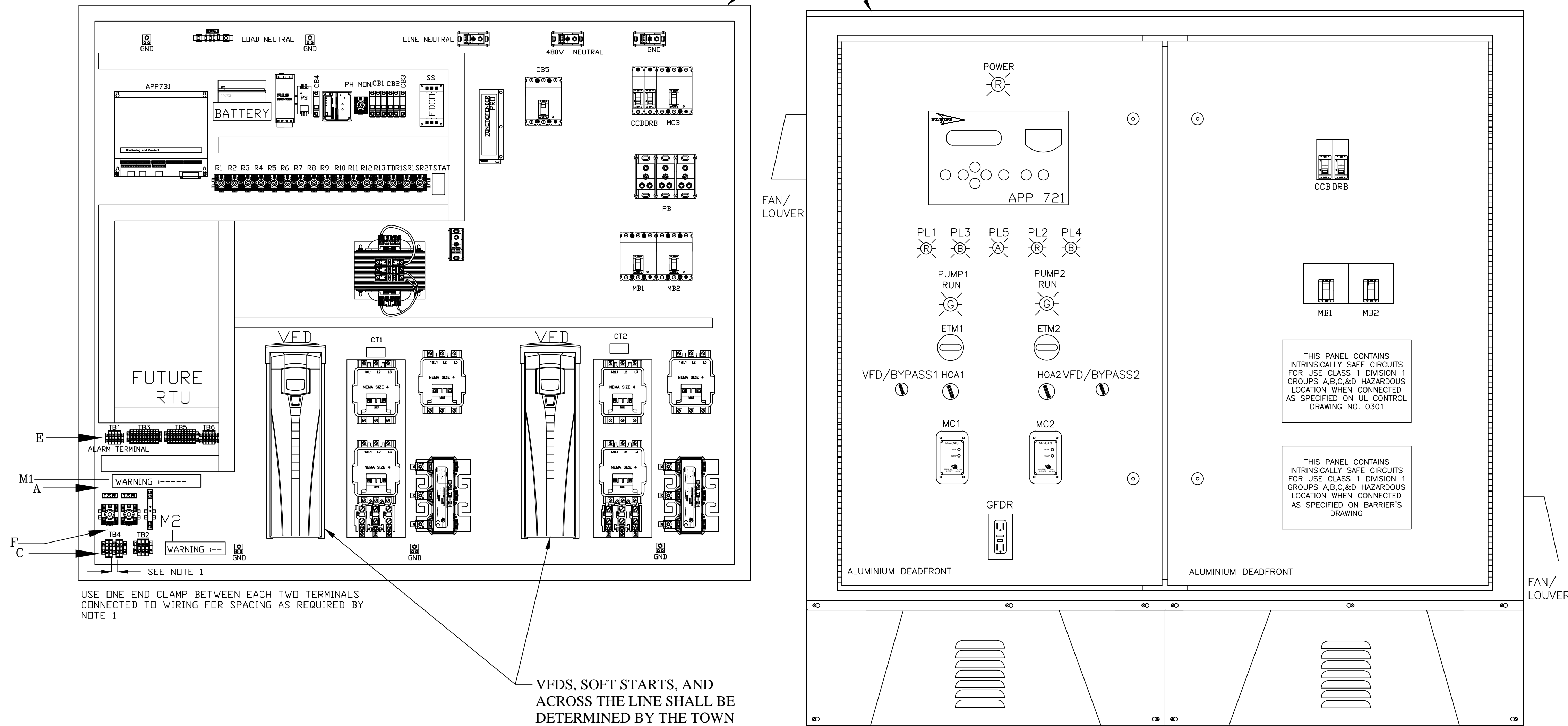
LEGEND:

- F: INTRINSICALLY SAFE CIRCUITS AND WIRING
- C: INTRINSICALLY SAFE FIELD WIRING TERMINALS
- A: NON-INTRINSICALLY SAFE CIRCUITS AND WIRING
- E: NON-INTRINSICALLY SAFE FIELD WIRING TERMINALS
- M1: INTERNAL MARKING (SEE NOTE 7-B)
- M2: INTERNAL MARKING (SEE NOTE 7-A)

NOTES:

1. SPACINGS (6.1)
1/4 INCH SPACING BETWEEN THE TERMINALS FOR CONNECTION OF FIELD WIRING OF DIFFERENT INTRINSICALLY SAFE CIRCUITS AS DEFINED BY THE BARRIER CONTROL DRAWING.
 - A. CIRCUITS FROM TWO DIFFERENT BARRIERS.
 - B. TWO CIRCUITS FROM THE SAME BARRIER.
2. SEPARATION OF CIRCUITS (7.1-7.3)
5 INCHES BETWEEN INTRINSICALLY SAFE FIELD WIRING TERMINALS AND NON-INTRINSICALLY SAFE CIRCUITS (C AND A)
3. SEPARATION OF CIRCUITS (7.1-7.3)
5 INCHES BETWEEN NON-INTRINSICALLY SAFE FIELD WIRING TERMINALS AND INTRINSICALLY SAFE CIRCUITS AND WIRING (E AND F)
4. SEPARATION OF CIRCUITS (7.1-7.3)
5 INCHES BETWEEN INTRINSICALLY SAFE INTERNAL WIRING AND NON-INTRINSICALLY SAFE CIRCUITS AND WIRING (A TO F)
5. SEPARATION OF CIRCUITS (7.1-7.3)
8 INCHES FROM INTRINSICALLY SAFE FIELD WIRING TERMINALS AND NON-INTRINSICALLY SAFE FIELD WIRING TERMINALS (C TO E)
6. GROUND TERMINAL (8.1) GND TERMINAL DEDICATED TO THE INTRINSICALLY SAFE BARRIER SHALL BE BOUNDED TO THE EQUIPMENT GROUNDING SYSTEM
7. MARKING (10.1-10.2)
INTERNAL MARKING:
 - A. "INTRINSICALLY SAFE FIELD WIRING TERMINALS" (F)
 - B. "WARNING: SUBSTITUTION OF COMPONENTS MAY IMPAIR INTRINSIC SAFETY" (E) MUST BE IN THE INTRINSICALLY SAFE AREA OF THE PANEL
8. MARKING (10.1-10.2)
EXTERNAL PANEL MARKING:

ALL PANELBROADS, BREAKERS, VFD'S AND/OR SOFT STARTS SHALL BE SQUARE D



NEMA TYPE 12 P.S. 12GA ENCLOSURE WITH CONTINUOUS HINGES 3 POINT LATCH, PADLOCKABLE (TYPICAL) ACTUAL LAYOUT MAY VARY WITH HORSEPOWER DIMENSIONS: 60" H X 72" W X 14" D 12 INCH LEGS

TYPICAL CONTROL PANEL LAYOUT
SCALE: NTS

TYPICAL CONTROL PANEL LAYOUT

TOWN OF BETHLEHEM
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