

REVISIONS		
DATE	DESCRIPTION	BY
01/16/19	REV. PER FORWD. & IDEM COMMENTS	JEFF

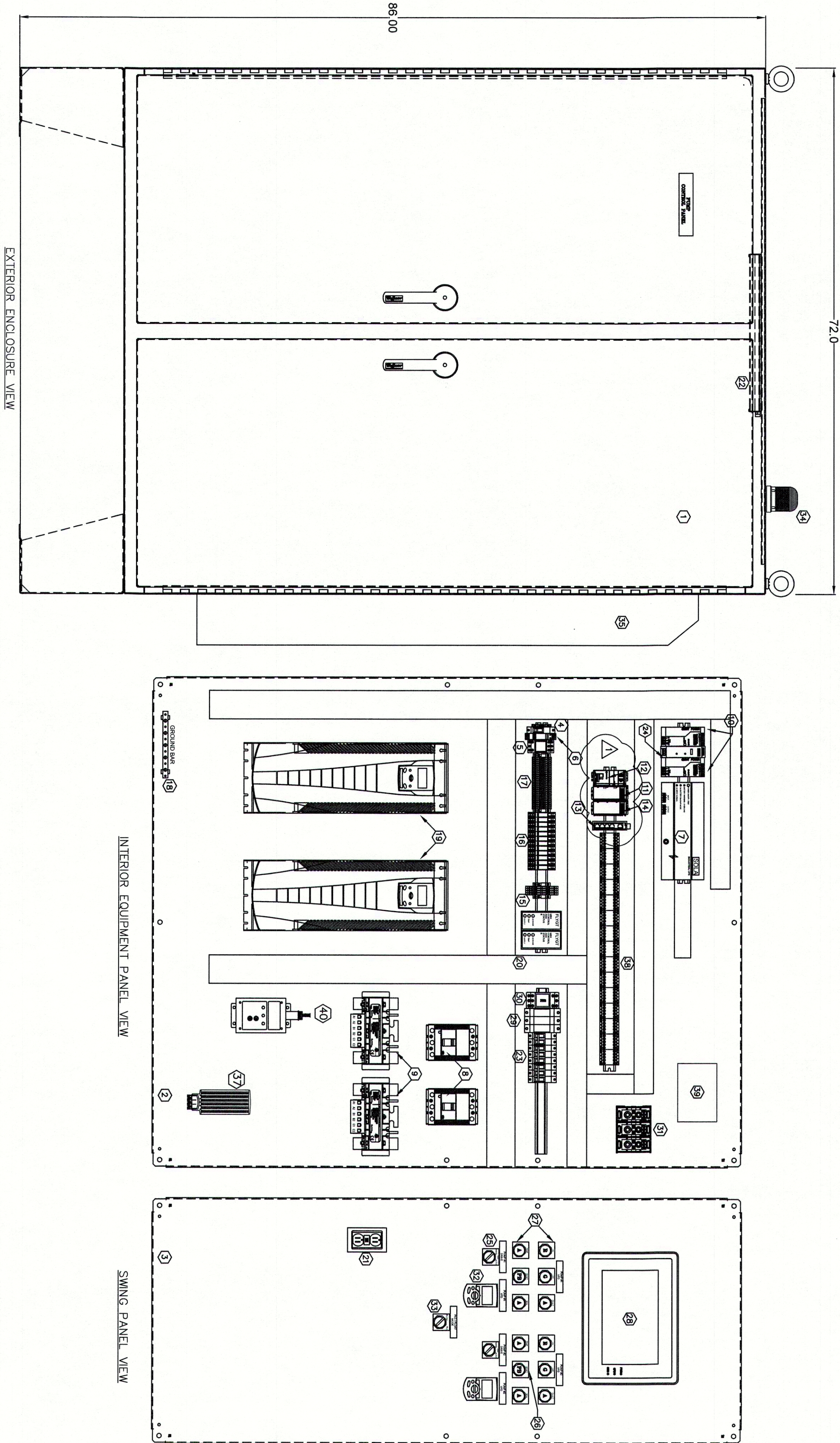


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SPRINGBROOK PRELIMINARY PLAN  
MADISON COUNTY, INDIANA  
LIFT STATION  
PUMP CONTROL PANEL LAYOUT DETAILS

- ELECTRICAL KEYED NOTES:**
1. STAINLESS STEEL ENCLOSURE 72"x86"x16" WITH 12" FOOT KIT.
  2. INTERIOR EQUIPMENT PANEL.
  3. SWING PANEL (SWING PANEL TO COVER 480V 3PH EQUIPMENT).
  4. MAIN 120VAC POWER CIRCUIT BREAKER.
  5. POWER FAIL RELAY. RELAY TO REPORT TO SCADA UPON LOSS OF POWER.
  6. PHOENIX MAINS PLUG TRAB SURGE PROTECTION DEVICE.
  7. SOLA SDU500 UPS.
  8. MOTOR PROTECTION CIRCUIT BREAKERS.
  9. 25HP LOAD REACTORS.
  10. 120VAC/24VDC REDUNDANCY POWER SUPPLIES.
  11. ALLEN BRADLEY COMPACT LOGX L36 ERM ANALOG INPUT MODULE OR APPROVED EQUAL.
  12. ALLEN BRADLEY COMPACT LOGX L36 ERM PLC OR APPROVED EQUAL.
  13. PROVIDE ETHERNET SWITCH. SANNET SLX-SES-1 OR APPROVED EQUAL.
  14. ALLEN BRADLEY COMPACT LOGX L36 ERM ANALOG OUTPUT MODULE.
  15. PHOENIX CONTACT ANALOG ISOLATORS.
  16. 120VAC ISOLATION RELAYS.
  17. FIELD TERMINATION BLOCKS.
  18. GROUND BUS BAR.
  19. VFD DRIVE, ABB ACS550-PX-08BA-2, ALLEN BRADLEY POWERFLEX 753 FOR 30HP OR APPROVED EQUAL. RATED FOR 280V.
  20. PUMP SEAL/TEMP MODULES.
  21. CONVENIENCE OUTLET. SURFACE MOUNTED ON SWING PANEL.
  22. PANEL LIGHT.
  23. SUPPLEMENTAL EQUIPMENT CIRCUIT BREAKERS.
  24. PHOENIX CONTACT QUINT REDUNDANCY MODULE.
  25. HAND OFF AUTO SELECTOR SWITCH (3 POSITION).
  26. PUSHBUTTON FOR SEAL/TEMP FAIL RESET.
  27. 120VAC PTT PILOT LIGHTS.
  28. MAPLE SYSTEMS 15" HMISTDIP DISPLAY OR APPROVED EQUAL.
  29. 3 PHASE SPD (SURGE PROTECTION DEVICE).
  30. PHASE FAIL MONITOR.
  31. 3 PHASE POWER DISTRIBUTION BLOCK.
  32. VFD REMOTE KEYPAD.
  33. 2 POSITION SELECTOR SWITCH.
  34. NEMA 4X ALARM BEACON.
  35. NEW AC UNIT AIR CONDITIONER SIZED FOR APPROPRIATE HEAT DISSSIPATION.
  36. SS VENTED SKIRT.
  37. 100W PANEL HEATER WITH INTEGRAL THERMOSTAT.
  38. IEC TYPE CONTROL RELAYS.
  39. MAIN CIRCUIT BREAKER/DISCONNECT.
  40. SURGE PROTECTION-3 PHASE.

NOTE:  
THE CONTRACTOR/PANEL FABRICATOR SHALL BE RESPONSIBLE FOR THE PROPER INSTALLATION OF THE PANEL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER WIRING AND PROGRAMMING. ALL SUBJECT TO SHOP DRAWING REVIEW. THESE DETAILS ARE INTENDED TO INDICATE SCOPE OF WORK, QUALITY REQUIREMENTS, AND EXPECTATIONS.



CONTROL PANEL LAYOUT DETAILS  
SCALE: NONE

DRAWN BY	IN, SKM
CHECKED BY	JEFF
DATE	NOVEMBER 30, 2018
SCALE	AS SHOWN
SHEET	JOB NUMBER 2017-271

PUMP CONTROL PANEL  
LAYOUT DETAILS  
C5.9