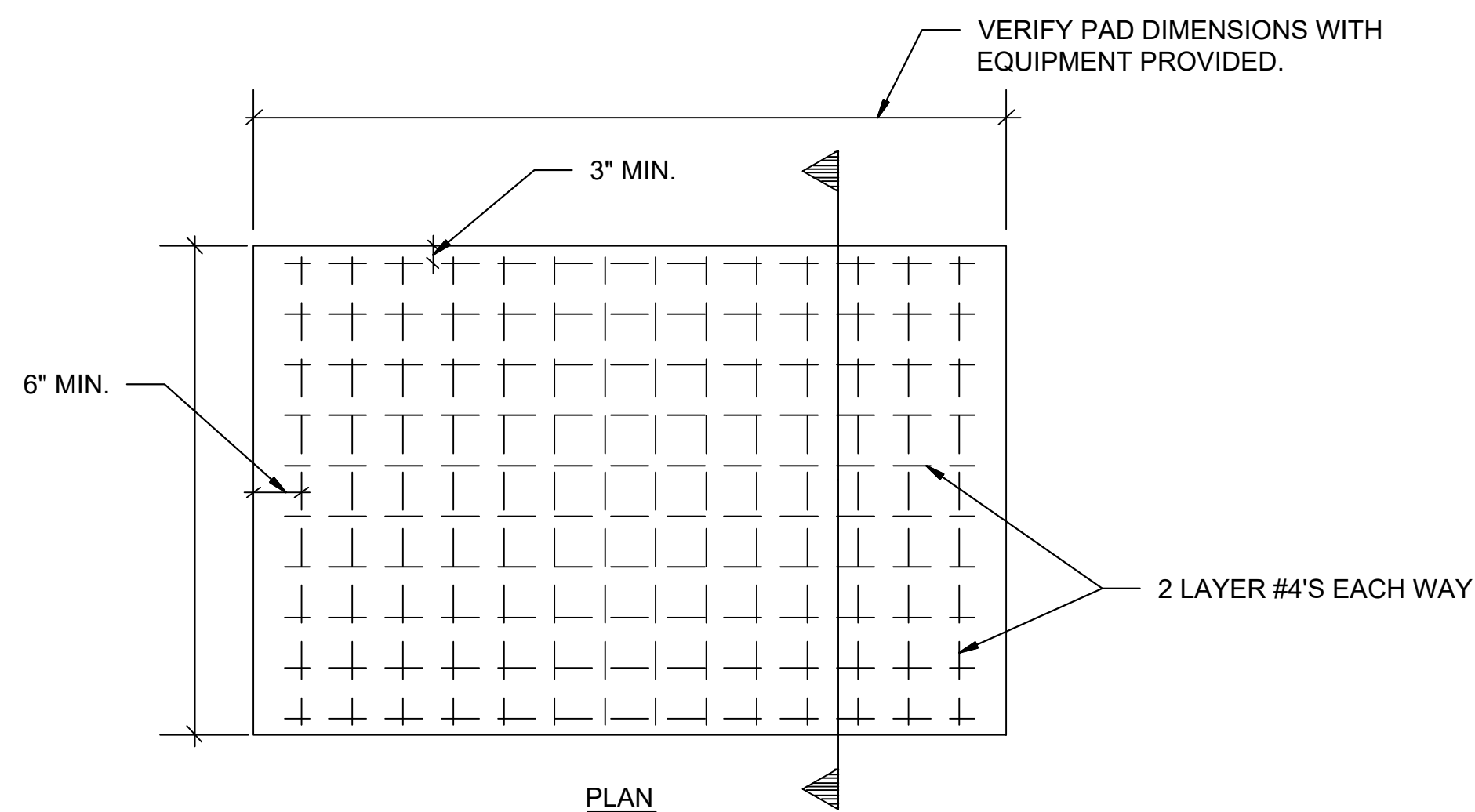
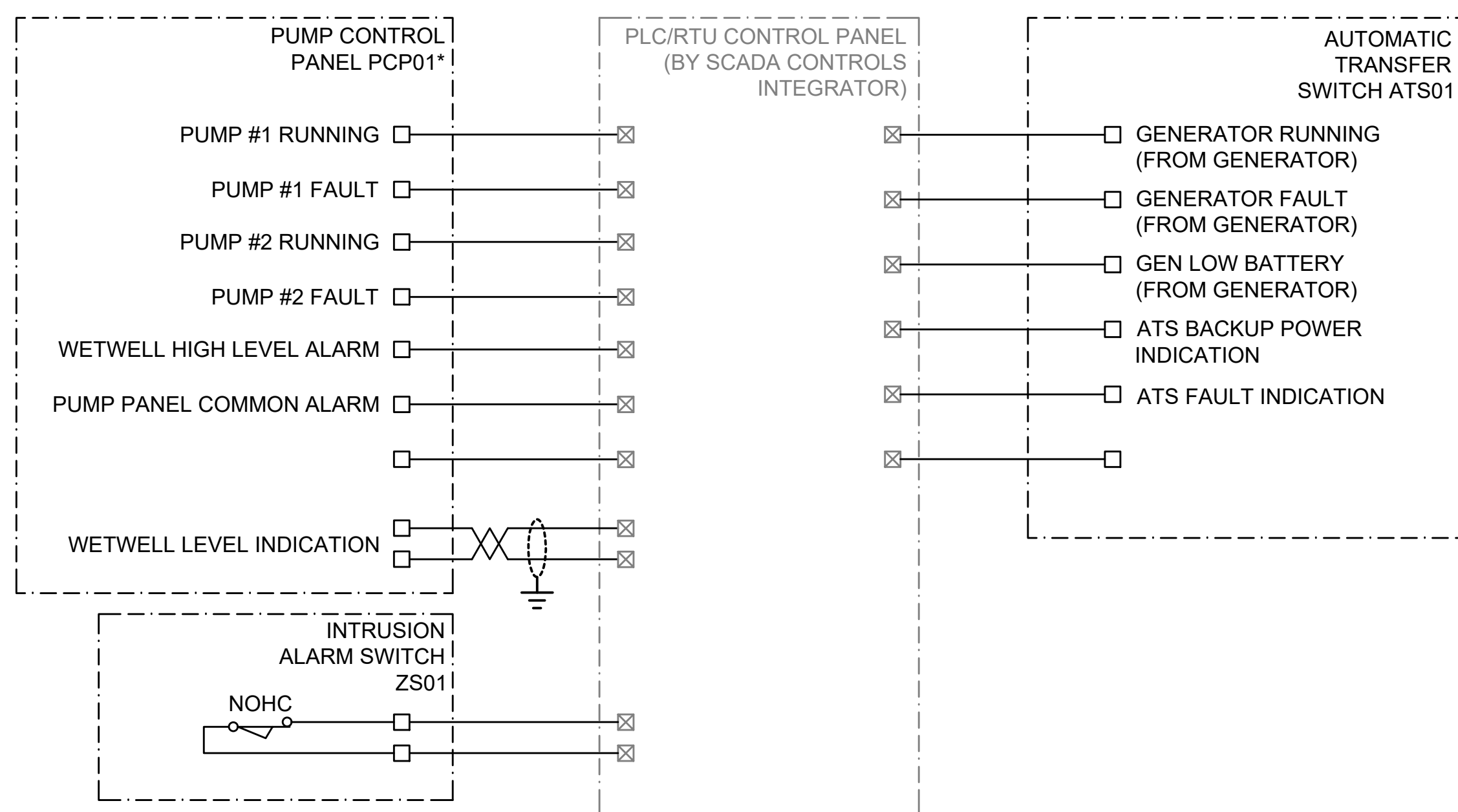


- THICKNESS AND STEEL MUST BE SIZED PER GENERATOR SIZE.
- PAD BY GENERAL CONTRACTOR. ELECTRICAL CONTRACTOR TO VERIFY ALL REQUIREMENTS WITH EQUIPMENT PROVIDED PRIOR TO GENERAL CONTRACTOR POURING PAD.



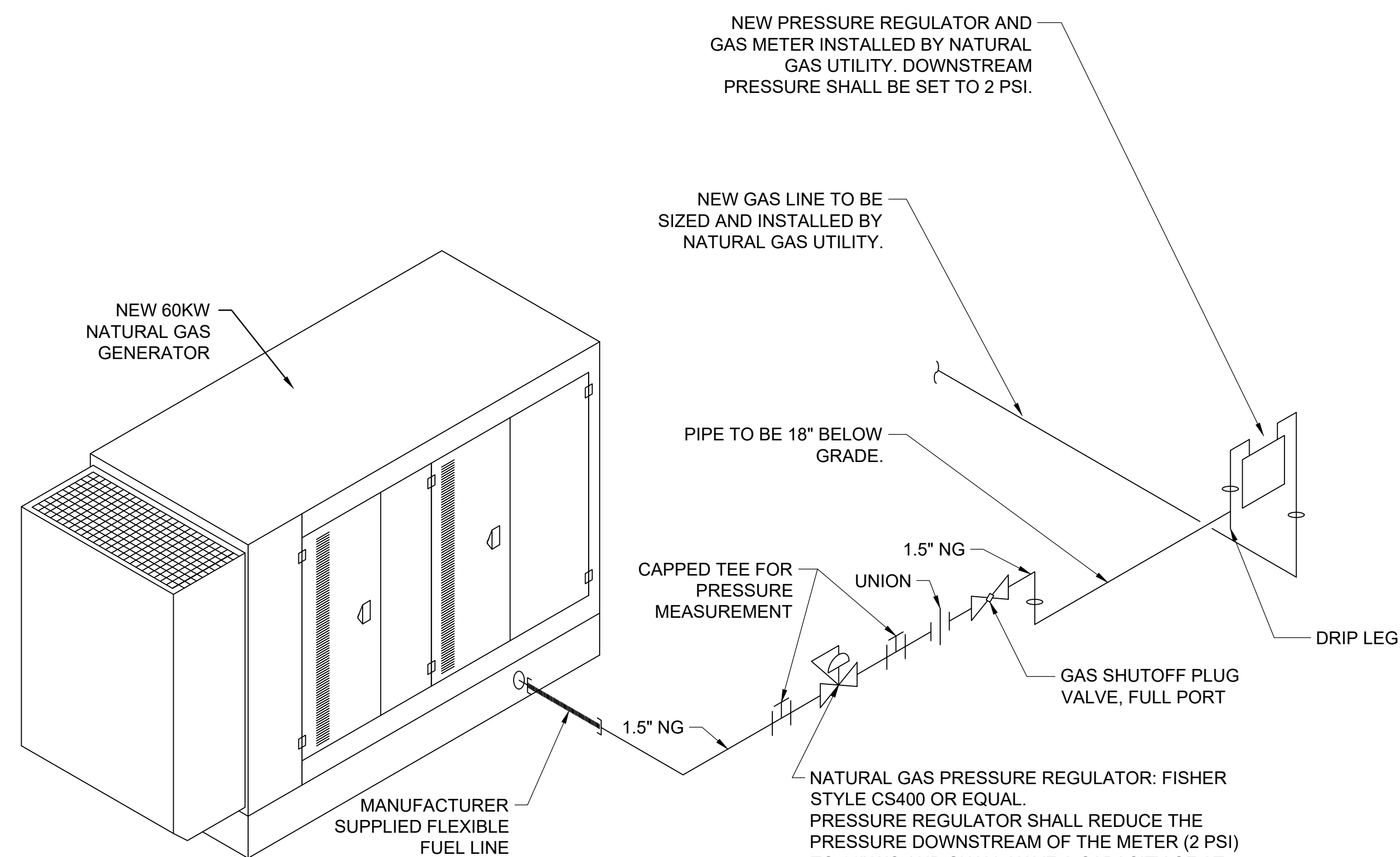
1
E8
GENERATOR PAD DETAIL
SCALE: NONE



GENERAL NOTES:

- MINIMUM EXPECTED I/O INDICATORS SHOWN. CONTRACTOR TO VERIFY I/O AVAILABLE FROM SUPPLIED PUMP CONTROL PANEL AND COORDINATE REQUIRED CONDUCTORS TO PLC/RTU PANEL WITH SCADA CONTROLS INTEGRATOR. SCADA CONTROL INTEGRATOR TO MAKE ALL CONNECTIONS WITHIN THE PLC/RTU PANEL.

2
E8
PROPOSED I/O LIST
SCALE: NONE



NEW PRESSURE REGULATOR AND GAS METER INSTALLED BY NATURAL GAS UTILITY. DOWNSTREAM PRESSURE SHALL BE SET TO 2 PSI.

NEW GAS LINE TO BE SIZED AND INSTALLED BY NATURAL GAS UTILITY.

PIPE TO BE 18" BELOW GRADE.

CAPPED TEE FOR PRESSURE MEASUREMENT

1.5" NG

UNION

GAS SHUTOFF PLUG VALVE, FULL PORT

DRIP LEG

MANUFACTURER SUPPLIED FLEXIBLE FUEL LINE

NATURAL GAS PRESSURE REGULATOR: FISHER STYLE CS400 OR EQUAL. PRESSURE REGULATOR SHALL REDUCE THE PRESSURE DOWNSTREAM OF THE METER (2 PSI) TO 11" WC AND SHALL HAVE A CAPACITY OF AT LEAST 900 SCFH. CONTRACTOR TO COORDINATE ACCEPTABLE PRESSURE RANGE WITH GENERATOR MANUFACTURER. REGULATOR SHALL BE INSTALLED AT LEAST 10 FEET (IN TERMS OF PIPE LAY LENGTH) FROM THE GENERATOR FUEL CONNECTION PER MANUFACTURER'S REQUIREMENTS. SEE NATURAL GAS REGULATOR NOTE.

NATURAL GAS REGULATOR NOTE:

DESIGN IS BASED ON 2 PSI SUPPLY PRESSURE FROM NATURAL GAS UTILITY. CONTRACTOR TO COORDINATE AVAILABLE GAS SUPPLY PRESSURE WITH UTILITY AND PROVIDE APPROPRIATE REGULATOR AS REQUIRED IF GAS SUPPLY PRESSURE DEVIATES FROM THE DESIGN PRESSURE.

SIZING METHOD:

LOW PRESSURE GAS USING SIZING EQUATION AS PRESENTED IN THE INTERNATIONAL FUEL GAS CODE. HYBRID PRESSURE METHOD IS USED.

THE 2 PSI SECTION (FROM THE METER TO THE PRESSURE REGULATOR) HAS AN APPROXIMATE EQUIVALENT LENGTH 30 LINEAR FEET, WHICH INCLUDES FITTINGS.

THE 11" WC SECTION (FROM THE PRESSURE REGULATOR TO THE GENERATOR CONNECTION) HAS AN APPROXIMATE EQUIVALENT LENGTH OF 20 LINEAR FEET, WHICH INCLUDES FITTINGS.

ASSUMPTIONS:

ESTIMATED TOTAL DEMAND IS 900 SCFH WITH SAFETY FACTOR. SPECIFIC GRAVITY OF NATURAL GAS IS 0.6 WITH A HEATING VALUE OF 1,000 BTU / CU. FT.

3
E8
NATURAL GAS SYSTEM ISOMETRIC
SCALE: NONE



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Digitally Signed 11/18/2019

BY	DESCRIPTION	DATE	REV.



CITY OF WICHITA
WICHITA, KANSAS
Consolidation of Lift Stations
Near 151st St. & W. Kellogg

ELECTRICAL DETAILS IV

JOB NO.: 17264967
DATE: NOV. 2019
DESIGNED BY: SAH
DRAWN BY: SAH

BAR IS ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DRAWING NUMBER

E8

SHEET NUMBER **21** OF **36**