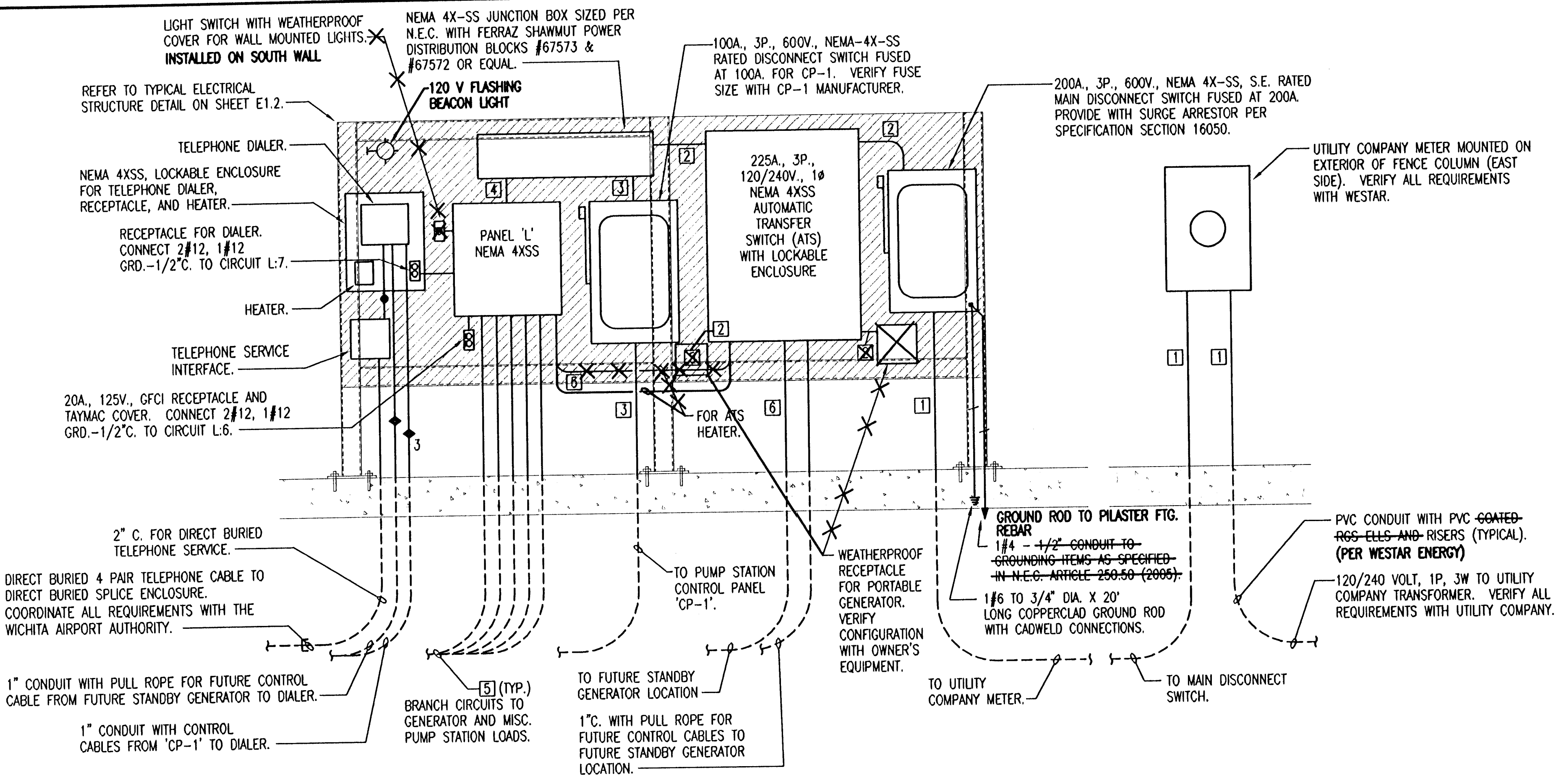
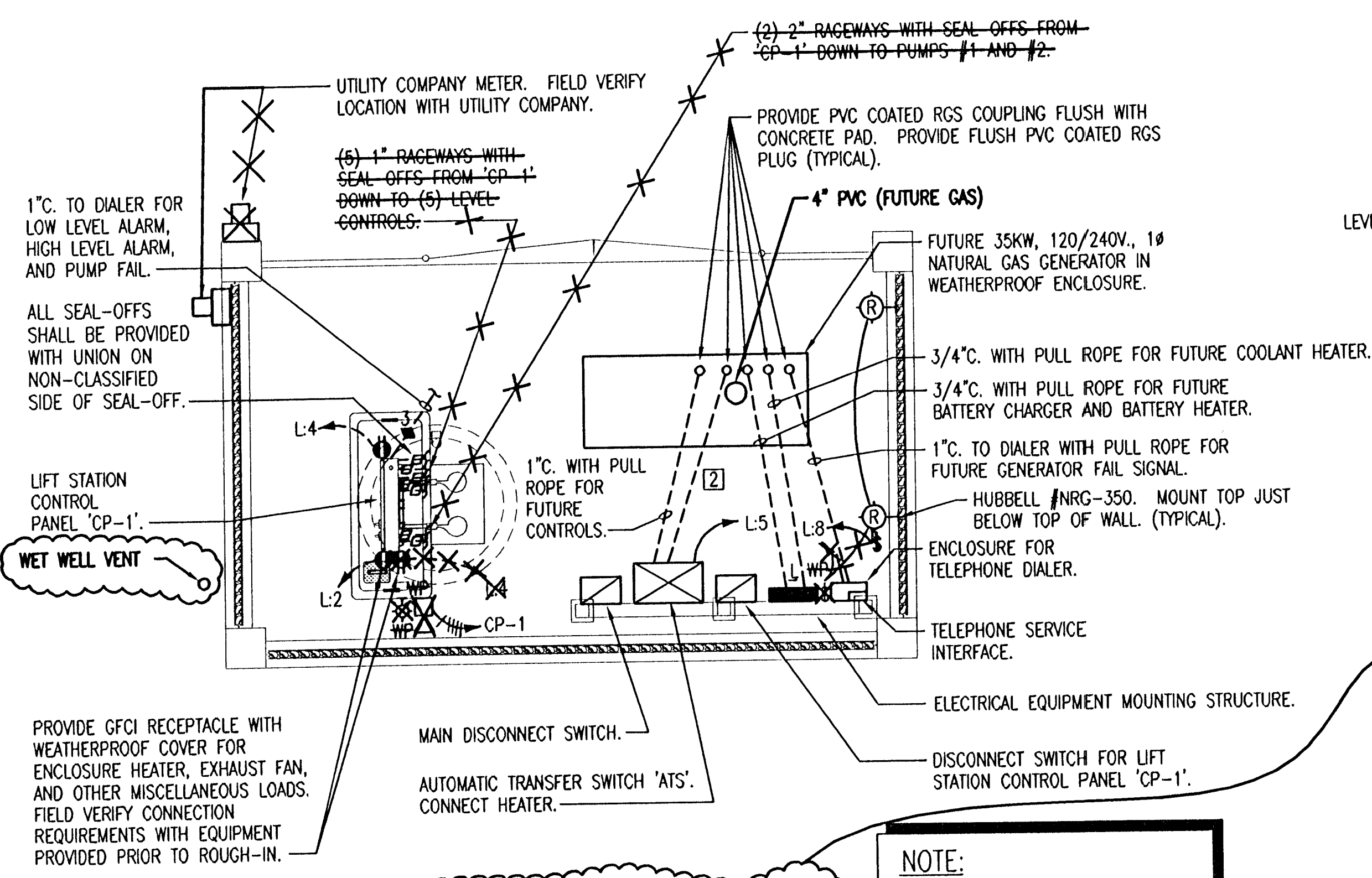
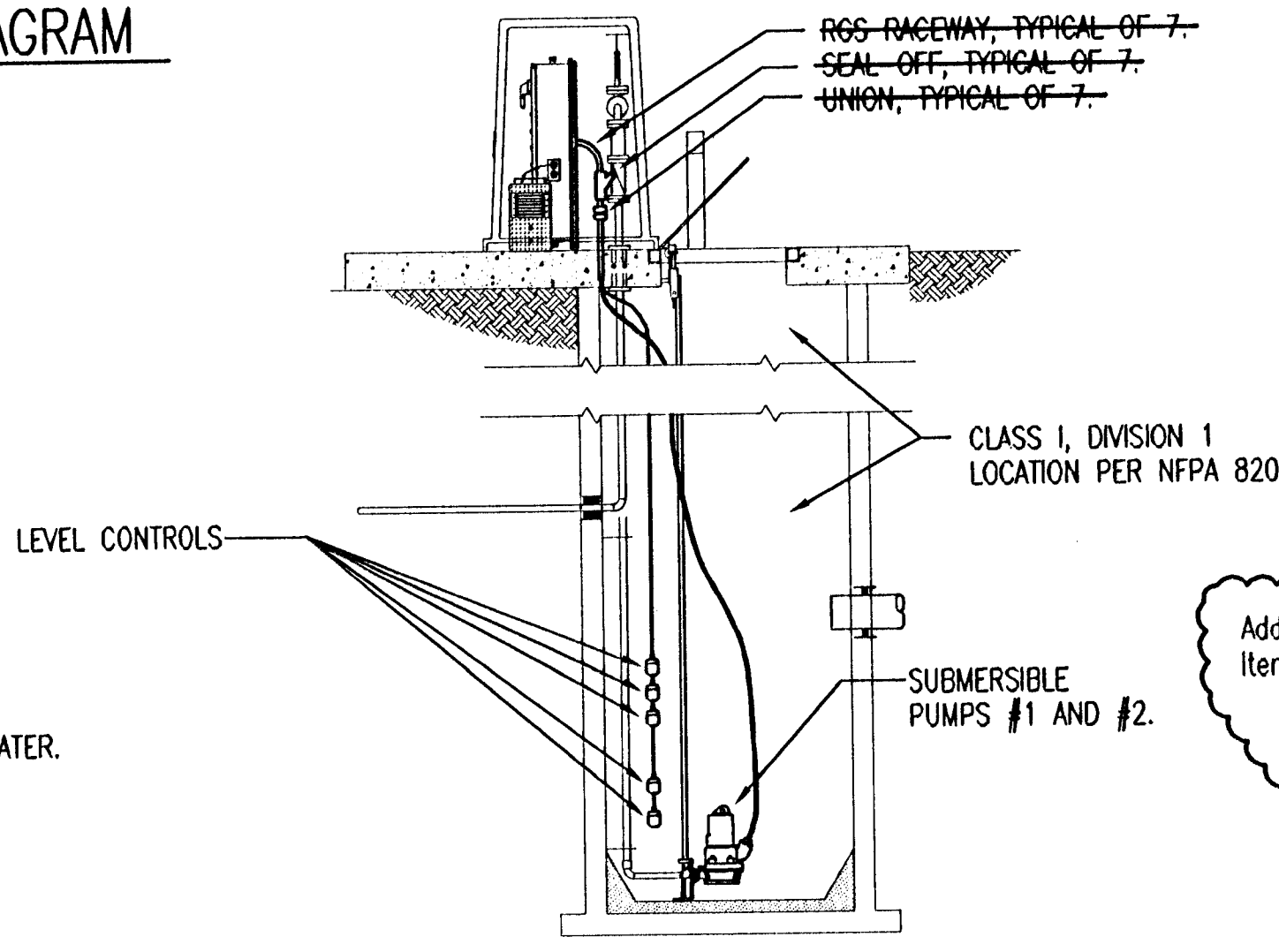




1 ELECTRICAL RISER DIAGRAM
NO SCALE



2 ELECTRICAL LIFT STATION PLAN
SCALE: 1/4" = 1'-0"



3 ELECTRICAL LIFT STATION SECTION
SCALE: 1/4" = 1'-0"

- ### GENERAL NOTES
- ALL ELECTRICAL WORK SHALL COMPLY WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) & THE AMERICANS WITH DISABILITIES ACT (ADA).
 - REFER TO RELATED ARCHITECTURAL, MECHANICAL, AND STRUCTURAL DRAWINGS FOR RELATED INFORMATION.
 - REFER TO THE SPECIFICATIONS FOR DATA NOT ON THE DRAWINGS.
 - E.C. SHALL REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS FOR THE REQUIREMENTS ASSOCIATED WITH WIRING AND CONNECTION OF INTERLOCKING AND CONTROLS OF MECHANICAL UNITS AND THERMOSTAT LOCATIONS.
 - COORDINATE OUTLET BOX LOCATIONS WITH MASONRY TO MINIMIZE CUTTING OF BRICK OR BLOCK.
 - ALL MOUNTING HEIGHTS TO CENTERLINE OF ITEM UNLESS OTHERWISE NOTED. VERIFY ALL OUTLET LOCATIONS ON THE JOB PRIOR TO ROUGH-IN.
 - CONDUIT RUN W/CONDUCTORS AS INDICATED & GROUND WIRE SIZED PER N.E.C. 250-122 (1999). CONDUIT SIZE AS REQUIRED.
 - WHEN INCREASED CONDUCTOR SIZES ARE SHOWN ON THE PLANS, THE LARGER CONDUCTOR SIZE SHALL BE USED THROUGHOUT THE LENGTH OF THE CIRCUIT, INCLUDING NEUTRAL AND GROUND.
 - ALL EXPOSED AND UNDERGROUND CONDUITS SHALL BE PVC COATED RGS, UNLESS OTHERWISE NOTED.
 - INSTALL NAMEPLATES ON EXTERIOR OF PANEL 'L' AND LIFT STATION ENCLOSURE INDICATING MONTH AND YEAR PLACED IN SERVICE.
 - THE PORTION OF THE WORK PROVIDED BY WESTAR SHALL BE PAID FOR BY THE OWNER. THE CONTRACTOR IS RESPONSIBLE FOR ALL SCHEDULING AND COORDINATION WITH WESTAR.

SYMBOL LIST

SYMBOL	DESCRIPTION	MOUNTING
WP	WEATHERPROOF	
UON	UNLESS OTHERWISE NOTED	
⊕	GROUND FAULT DUPLEX RECEPTACLE	46" AFF
□	SPECIAL DEVICE (AS NOTED)	
⊞	JUNCTION BOX	
—A—	BRANCH CIRCUIT PANEL & PANEL DESIG.	72" TO TOP
⊞	ELECTRICAL DISTRIBUTION EQUIPMENT	
1	FEEDER DESIGNATION	
⊞	TELEPHONE CABLE	IN CONDUIT
⊞	ANALOG CONTROL CABLE - # OF SHIELDED PAIRS	IN CONDUIT
⊞	CONTROL CABLE - # OF PAIRS	IN CONDUIT
⊞	CONDUIT SEAL	
⊞	CONDUIT RUN 2#10 & 1#10 GRD.-3/4"C.	CEIL./WALL
⊞	CONDUIT RUN 2#10 & 1#10 GRD.-3/4"C.	EARTH/FLOOR
⊞	CONDUIT RUN 2 CIRCUITS, 3#10 & 1#10 GRD.-3/4"C.	EARTH/FLOOR
⊞	CONDUIT RUN PARTIAL CIRCUIT	
⊞	SEE GENERAL NOTE 7 & 8	
⊞	CONDUIT RUN TWO (2) CIRCUITS	CEIL./WALL
⊞	PHASE CONDUCTORS (#10 UON)	
⊞	NEUTRAL CONDUCTOR (#10 UON)	
⊞	SWITCH LEGS (#10 UON)	
⊞	GROUND CONDUCTOR (#10 UON)	
⊞	MISC. EQUIPMENT CONNECTION	
⊞	MOTOR	
⊞	DISCONNECT SWITCH	
⊞	STARTER	
⊞	120V. HORN	
⊞	120V. FLASHING BEACON LIGHT	
⊞	LIGHT FIXTURE & FIXTURE LETTER	WALL

- ANALOG CONTROL CABLE BELDEN #8760, 3/4"C. MIN.
- #14 AWG CU CONDUCTORS WITH #12 AWG CU GROUND.

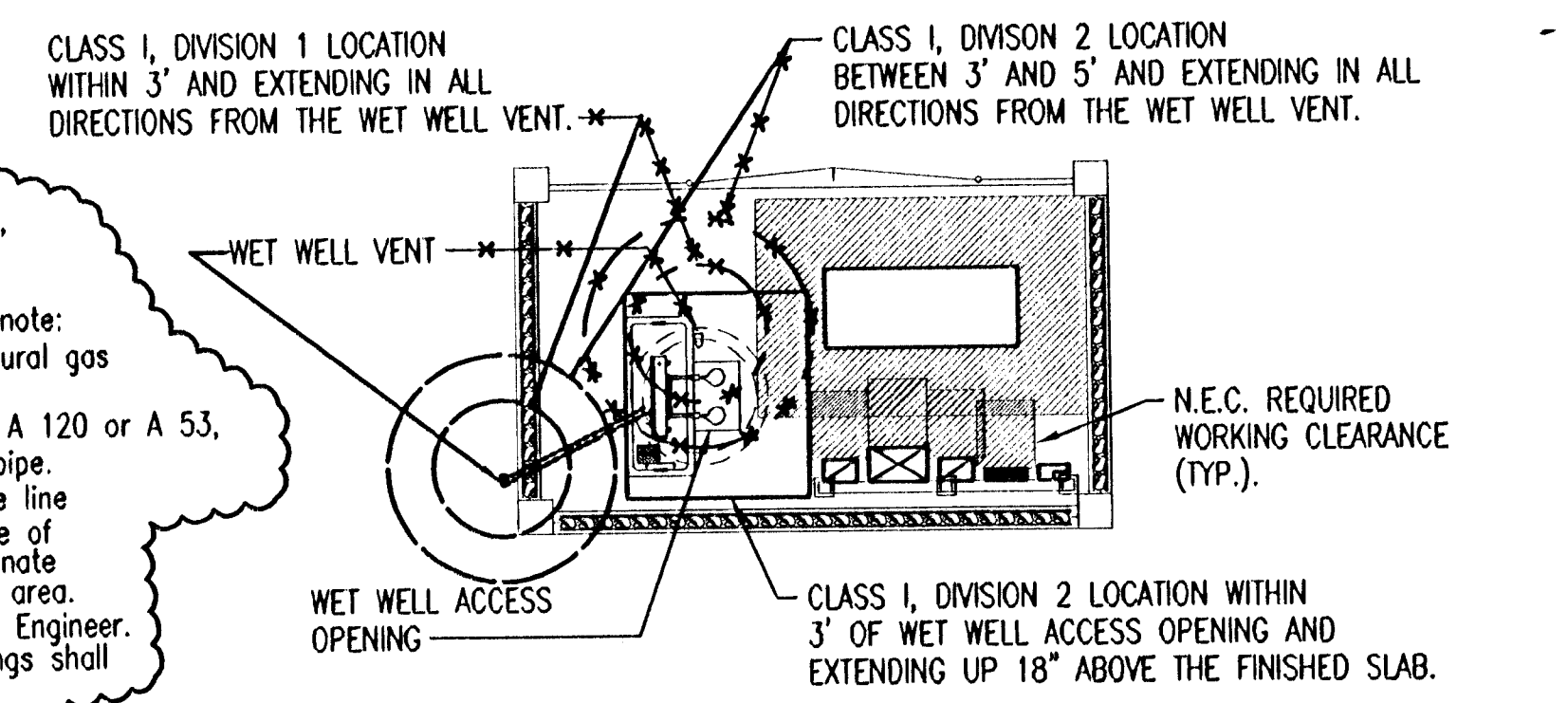
FEEDER SCHEDULE

DESIG.	EQUIPMENT SERVED	CONDUCTORS		GROUND SIZE PER SET	ISOLATED GROUND SIZE	CONDUIT SIZE PER SET
		SETS	NO.			
1	METER/MAIN DISCONNECT	1	3	#3/0 AWG CU	--	3"
2	ATS/GEN REC/DIST. BLOCKS	1	3	#3/0 AWG CU	#6	2"
3	CONTROL PANEL 'CP-1'	1	3	#1 AWG CU	#8	1-1/2"
4	PANEL 'L'	1	3	#1 AWG CU	#8	1-1/2"
5	MISC.	1	2	#10 AWG CU	#10	3/4"
6	FUTURE GENERATOR	1	--	WITH PULL ROPE	--	2"

RECORD DRAWING

Sheet E1-1-Electrical Symbols, General Notes, Schedules, and Details

Electrical Lift Station Plan, ADD the following note:
"Contractor shall provide 1-1/2" pipe for natural gas service line.
Pipe shall be plastic coated steel pipe, ASTM A 120 or A 53, Schedule 40, seamless Grade B, black steel pipe.
Pipe shall be coated with X-Tru Coat. Service line shall be installed underground from 3' outside of concrete wall, under the wall, and shall terminate 6' above concrete pad near future generator area.
Location shall be coordinated with Owner and Engineer.
Pipe shall be capped on both ends and fittings shall be coated with X-Tru Coat"



4 ELECTRICAL CLEARANCE & HAZARDOUS LOCATION PLAN
SCALE: 1/8" = 1'-0"

PANELBOARD: L

W/GRD. BUS, NEMA 4XSS	LOAD NO.	LOAD V. A.	LOAD TYPE	DESCRIPTION	AMP SIZE	AMP SIZE	LOAD NO.	LOAD V. A.	LOAD TYPE	DESCRIPTION	AMP SIZE	AMP SIZE
	1	1500	HEV	FUT GEN COOLANT HEATER	20	A 20	1	1500	HEV	LIFT STATION HEATER	20	A 20
	2	1500	HEV	FUT GEN BNT CHARGER & HTR	20	B 20	2	1500	HEV	LIFT STATION VENT. FAN	20	A 20
	3	1500	HEV	ATS HEATER	20	B 20	3	1500	HEV	CONV. RECEPT.	20	A 20
	4	1200	HEV	DIALER & HEATER	20	B 20	4	1200	HEV	WALL MOUNTED LIGHTS	150	8
	5		SPARE		20	A 20	5		SPARE			10
	6		SPARE		20	B 20	6		SPARE			12

ADDENDUM #3

THE WICHITA AIRPORT AUTHORITY
COLONEL JAMES JABARA AIRPORT

ELECTRICAL SYMBOLS, GENERAL NOTES, SCHEDULES, AND DETAILS

SANITARY SEWER AND WATER DISTRIBUTION SYSTEM
SOUTHWEST AREA SITE DEVELOPMENT IMPROVEMENTS

Professional Engineering Consultants, P.A.
303 S. TOPEKA • WICHITA, KANSAS 67202
316-262-2691 • FAX 316-262-3003

Date SEPTEMBER 2005 Job No. 05471-019

Sheet 02-19-2007 3:56:24 PM by JLS
Plot Scale 1/4" = 1'-0" 11/27/06 AM by JLS
Q:\2005\05471\Record Drawings\PS-Record Drawings\05471-E1-Electrical