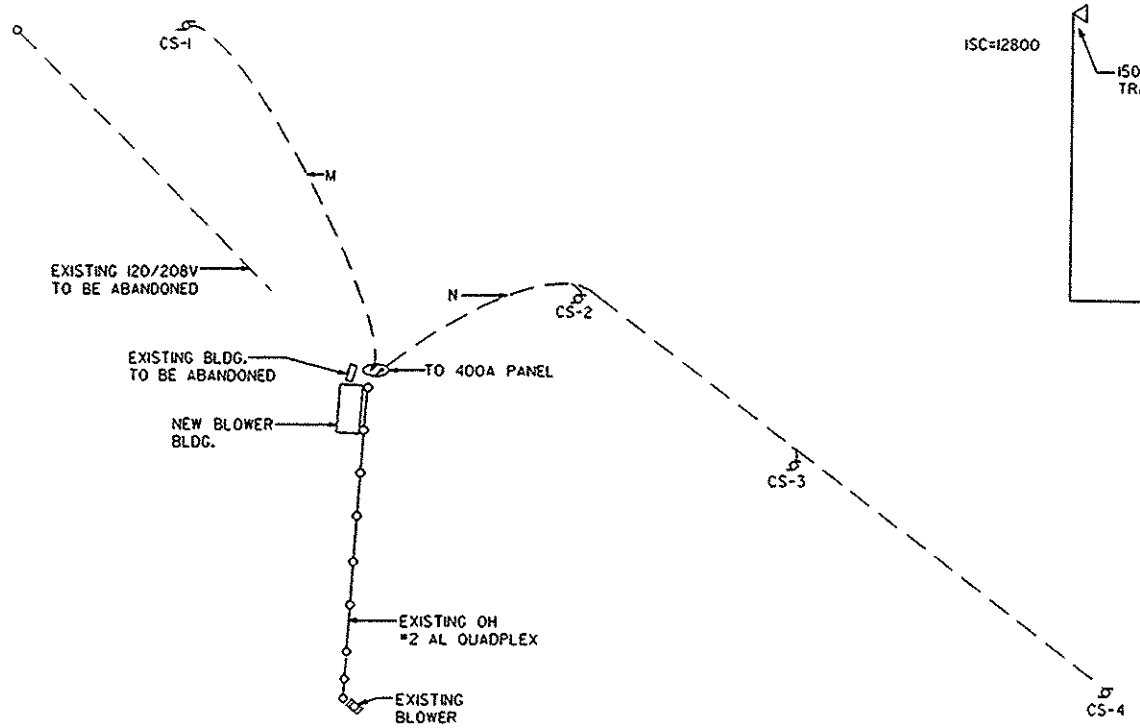
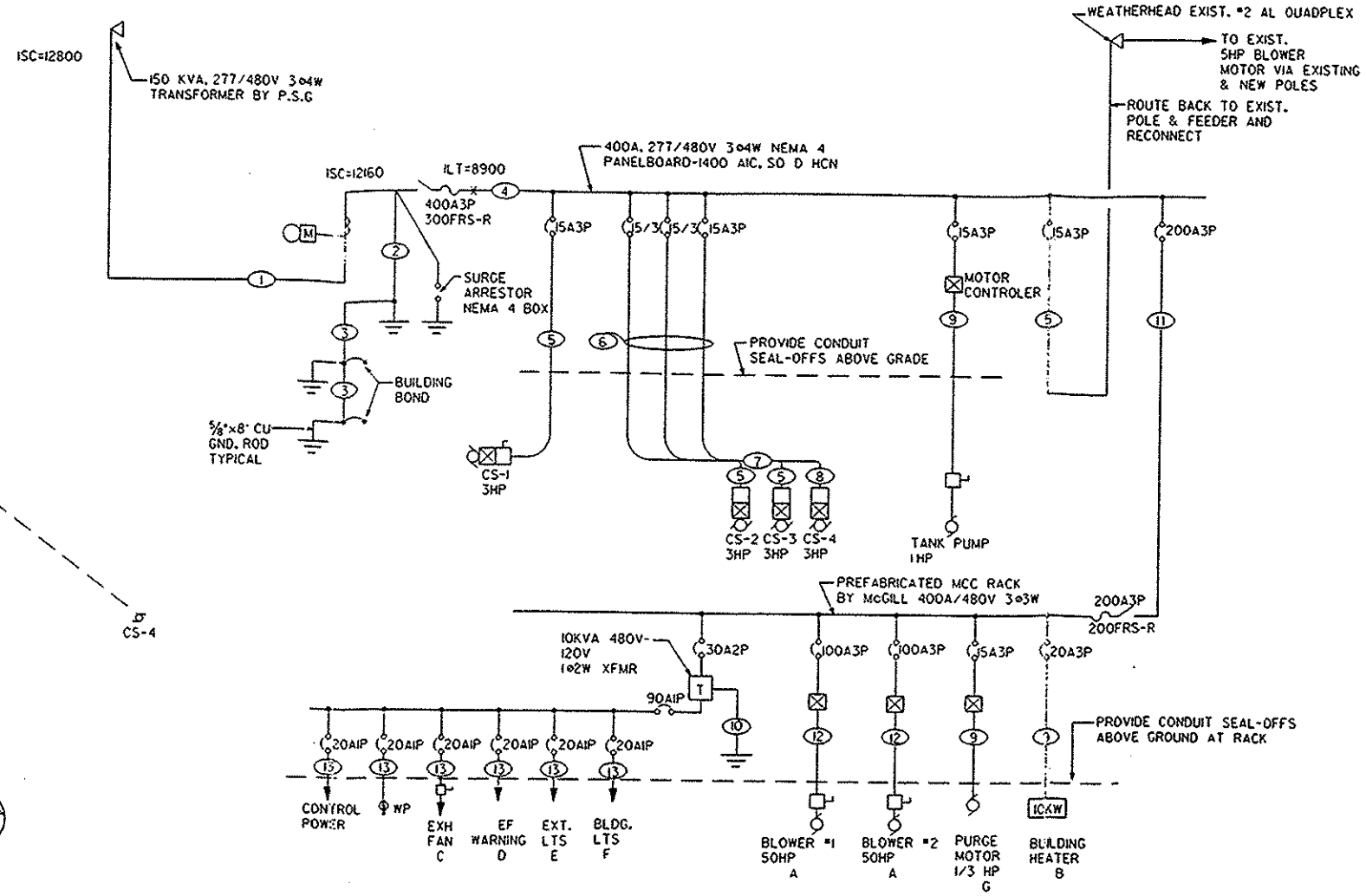


ELECTRICAL SITE PLAN

1"=100'



ELECTRICAL ONE - LINE DIAGRAM

LOAD CALCULATIONS

LIGHTS - 1650×1.25=	2063
EF 1/4HP	696
SUMP PUMPS (4) 3HP	15936
BLOWERS (2) 50HP	107900
RECEPTS 2X180=	360
PURGE MOTOR 1/3 HP	830
TANK PUMP 1HP	1496
EXIST. BLOWER MOTOR 5HP	6308
ELEC HEATER	10000
25% LARGEST MOTOR	13488
	159077

159077W AT 277/480V 3ø4W = 19L7A

FEEDER SCHEDULE

1. 4-350 MCM CU THW-3" C RISER
2. 1/0 CU GND TO 5/8"×8 FT. GND ROD
3. #2 CU GND TO 5/8"×8 FT. GND RODS
   BOND TO BLDG. STEEL & METAL PIPING
4. 4-350 MCM THW & #4 CU GND-3"C
5. 3 #8 CU THW, #8 CU GND-1"C
6. 6 #8 CU THW, 3 #6 CU THWN, #8 CU GND-1 1/4" C
7. 3 #8, 3 #6 CU THWN #8 CU GND
8. 3 #6 CU THWN #8 CU GND-3/4" C
9. 3 #12 CU THWN, #12 CU GND-3/4" C
10. #8 CU GND TO GND BAR
11. 3-3/0 CU THWN, #6 CU GND-2"C
12. 3 #4 CU THWN, #8 CU GND-1 1/4" C
13. 2 #12 CU THWN, #12 CU GND-3/4" C

SHORT CIRCUIT CALCULATIONS

150 KVA OH 277/480V ISC=12800
DIST.=20FT C=350 MCM CU = 16200

$$f = \frac{1.73 \times 20 \times 12800}{16200 \times 480} = .05$$

$$m = \frac{1}{1.05} = .95 \times 12800 = 12160$$

ILT = 300FRS-R = 8900

REV	DESCRIPTION	DATE	BY

BF1 BROWNING-FERRIS INDUSTRIES
GAS SYSTEMS
757 N. ELDRIDGE - P.O.BOX 3151 - HOUSTON, TEXAS 77253 - (713) 870-8100

SCALE: AS NOTED
DATE: AUG. 1991
ENGINEER: D.A.W.
DRAWN BY: H.H.J.
APPROVED BY:
PROJECT NUMBER:

TITLE: ELECTRICAL SITE PLAN AND ONE-LINE ELECTRICAL DIAGRAM

PROJECT NAME AND LOCATION: GAS EXTRACTION SYSTEM
SAND CREEK LANDFILL
DENVER, COLORADO

DRAWING NUMBER: SHEET 17