

FAULT CURRENT CALCULATIONS

THE FOLLOWING IS THE SHORT CIRCUIT USED TO DETERMINE THE SIZED OF THE CIRCUIT BREAKERS INTERRUPTING RATING.

WHERE:

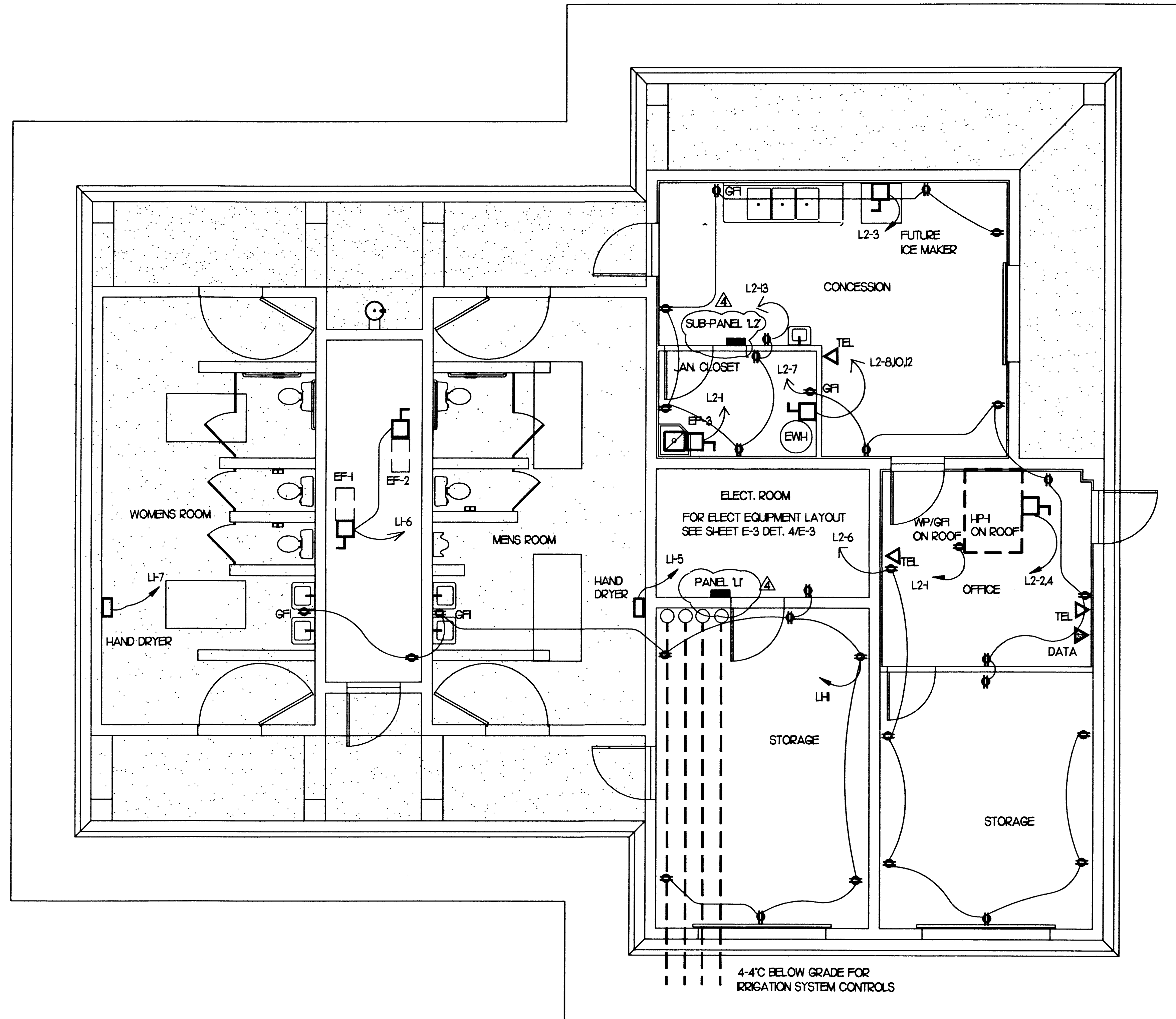
TRANSFORMER IS: KVA=45
 SECONDARY VOLTAGE IS: KV = 0.208
 NAMEPLATE IMPEDANCE IS: Z = 3.1%
 SOURCE IS ASSUMED INFINITE FOR WORST CASE FAULT.

$$ISC = \frac{KVA \times 100}{KV \times Z \times 1.73}$$

$$ICS = \frac{45 \times 100}{0.208 \times 3.1\% \times 1.73}$$

ICS = 4034 SHORT CIRCUIT AMPERES

MAXIMUM INTERRUPTING RATING OF SERVICE SWITCHBOARD IS SPECIFIED AT 10,000 SYMMETRICAL AMPERES.



DATE: 1/98	REVISIONS: REVISED PER CITY COMMENTS	DRAWN BY: HL	DESIGN BY: AC
W.A. #	DATE: 6-5-97	FLOT SCALE: 1/4"=1'-0"	DATE: 6-5-97
PROJECT: DEPARTMENT OF PUBLIC WORKS		ARCHITECTURAL SERVICES	
PROJECT: Rainbow Park Toilet Building		ARCHITECTURAL SERVICES	
SHEET TITLE: POWER FLOOR PLAN		ARCHITECTURAL SERVICES	
SHEET NO. EB-3		ARCHITECTURAL SERVICES	
DRAWING NO. DWGNO		ARCHITECTURAL SERVICES	

FAULT CURRENT CALCULATIONS

THE FOLLOWING IS THE SHORT CIRCUIT STUDY TO DETERMINE THE SIZE OF THE CIRCUIT BREAKER INTERRUPTING RATING.

NAME:

TRANSFORMER ID: 01V-06

RECEPT VOLTAGE ID: 01V - 000

MAXIMUM IMPEDANCE ID: 7 - 002

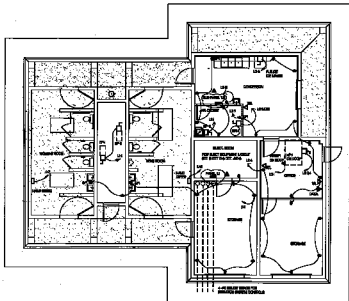
SOURCE IS ASSUMED IMPEDANCE FOR VARIOUS CASE FAULT.

SC1 - 01V & 002
01V & 2 & 01V

SC2 - 01V & 002
NAME & 2000 & 1/2

SC3 - 001 SHORT CIRCUIT IMPEDANCE

MAXIMUM INTERRUPTING RATING OF CIRCUIT BREAKERS IS SPECIFIED BY NAME ELECTRICAL SUPPLIER.



PROJECT NO.	100-100000000
DATE	01/01/00
SCALE	AS SHOWN
DRAWN BY	...
CHECKED BY	...
APPROVED BY	...