









Confined Space
Espace Clos
CAUTION
AVERTISSEMENT



CAUTION
HIGH VOLTAGE

ALUMINUM
ALUMINUM
ALUMINUM





PNL-D CCT-26-28

SCADAPack

Weidmüller
BATTERY CHARGER

PNL-D CCT-26-28



Confined Space
Espace Clos
CAUTION
AVERTISSEMENT







S-4

HAUTE TENSION
HIGH VOLTAGE





TRACON ENGINEERING INC.

520 CONESTOGO ROAD
WATERLOO, ONTARIO N2L 4E2
PHONE (519) 884-2810



LR18473

THREE PHASE TRANSFORMER

▲ SPEC. [REDACTED] SERIAL 89-45
 RATED KVA [REDACTED] Hz 60 TYPE [REDACTED]
 PRI. VOLTS [REDACTED] TAPS [REDACTED]
 SEC. VOLTS [REDACTED] CLASS [REDACTED] °RISE [REDACTED]
 % IZ AT [REDACTED] APPR. [REDACTED] ENC. [REDACTED]

SECONDARY	
VOLTS	%
468	-5
480	-2.5
492	0
504	+2.5
516	+5





TRACON ENGINEERING INC.

520 CONESTOGO ROAD
WATERLOO, ONTARIO N2L 4E2
PHONE (519) 884-2810

014



LR18473

THREE PHASE TRANSFORMER

SPIC.		SERIAL	39-45
RATED KVA		Hz	60
PRI VOLTS		TAPS	
SEC. VOLTS		CLASS	
% IZ AT		°RISE	
APPR.		ENC.	

SECONDARY

480	-2.5
480	NO
492	-2.5
504	+5



THREE PHASE TRANSFORMER ER10473

SPHC. [REDACTED] SERIAL 39-437

RATED KVA [REDACTED] Hz 60 TYPE [REDACTED]

PRI. VOLTS [REDACTED] TAPS [REDACTED]

SEC. VOLTS [REDACTED] CLASS [REDACTED] °RISE [REDACTED]

% IZ AT [REDACTED] APPR. VT 470 ENC. [REDACTED]

SECONDARY	
S	%
468	-5
480	NOV
492	+2.5
504	+5





TRACON ENGINEERING INC.

520 CONESTOGO ROAD
WATERLOO, ONTARIO N2L 4E2
PHONE (519) 884-2810



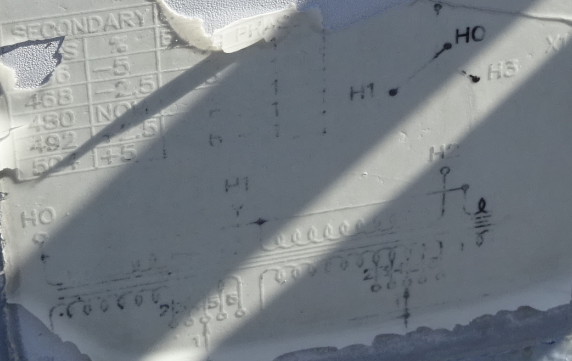
LR18473

THREE PHASE TRANSFORMER

014

SPEC. [REDACTED] SERIAL 59-45
 RATED KVA [REDACTED] Hz 60 TYPE [REDACTED]
 PRI. VOLTS [REDACTED] TAPS [REDACTED]
 SEC. VOLTS [REDACTED] CLASS [REDACTED] °RISE [REDACTED]
 % IZ AT [REDACTED] APPR. [REDACTED] ENC. [REDACTED]

SECONDARY	
VOLTS	PERCENT
468	-2.5
480	NOM.
492	+2.5
504	+5





COAST GUARD

maple TRAVEL

WATER MARK

20











⚠ DANGER
High Voltage
Electrical Shock
Can Cause Death
Do Not Open
When Energized
Do Not Touch
Internal Parts
When Energized

⚠ DANGER
High Voltage
Electrical Shock
Can Cause Death
Do Not Open
When Energized
Do Not Touch
Internal Parts
When Energized

MAIN

FP BF

FP CF

FP CF

VANCOUVER, B.C.

SWITCHGEAR UNIT
APPAREIL DE COMMUTATION
CSA STANDARD C22.2 NO. 31
NORME ACNOR C22.2 NO. 31

AMPS

800

120/208

VOLTS

KV BIL

NO.

03747-A1-89

60

HZ

3-4

Ø WIRE



SWITCHGEAR UNIT
APPAREIL DE COMMUTATION

LL7160


S-25

FEDERAL
PIONEER

PACIFIC
SERVICE

! DANGER

**Arc Flash and Shock Hazard
Appropriate PPE Required**



9.1 inch Flash Protection Boundary
 23.0 cal/cm² Incident Energy at 18 inches
 Cat 3 Hazard/Risk Cat. See NFPA 70E for PPE
 208 VAC Shock Hazard when cover is opened

10.0 ft Limited Approach
 1 ft Restricted Approach
 0.1 ft Prohibited Approach

} Boundaries
 See NFPA 70E

Eqpt. Name: SUB #4 208V BUS Q2C#: 6071 Date: 05-19-2008

Data values on this label are provided by Schneider Canada Services analysis performed on Q2C# shown above. Any modification of equipment, adjustment of trip unit settings, or failure to properly maintain equipment will invalidate these values.
 For more information contact Schneider Canada Services at 1 800 265 3374.

FPE FEDERAL PIONEER

TORONTO, GRANBY P.Q., VANCOUVER B.C., TRURO N.S.

AMP. 600 120/208 VOLTS
 NO. Q2C 3-4 FILS WIRE
 TYPE 93-05-03747-01

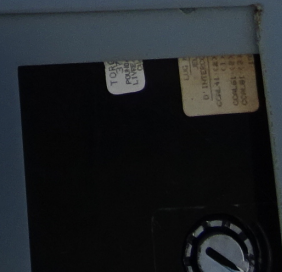
SP PANELBOARD
 PANNEAU DE DISTRIBUTION

545

! DANGER

**Arc Flash and Shock Hazard
Appropriate PPE Required**


10.1 inch Flash Protection Boundary
 27.4 cal/cm² Incident Energy at 18 inches



AMP: 100
NO. 01
TYPE 50-105-02 (A) (F-21)

! DANGER

**Arc Flash and Shock Hazard
Appropriate PPE Required**



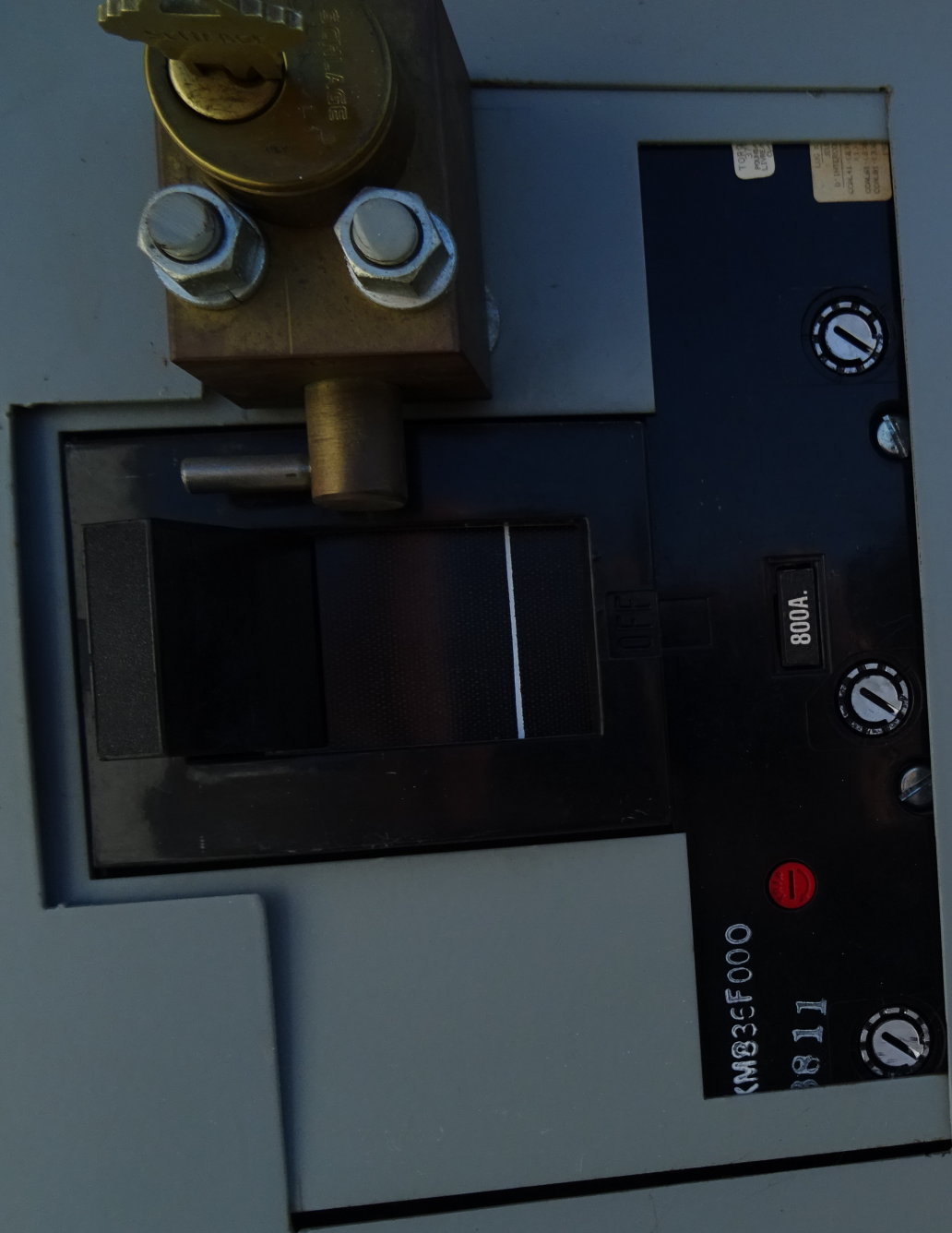
10.1 inch	Flash Protection Boundary	
27.4 cal/cm ²	Incident Energy at 18 inches	
Cat 4	Hazard/Risk Cat. See NFPA 70E for PPE	
208 VAC	Shock Hazard when cover is opened	
10.0 ft	Limited Approach	} Boundaries See NFPA 70E
1 ft	Restricted Approach	
0.1 ft	Prohibited Approach	

Eqpt. Name: SUB #4 MAIN 208V Q2C#: 6071 Date: 05-19-2008

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For more information contact Schneider Canada Services at 1 800 265 3374.

MAIN

FEDERAL POWER
Mark E. Dirks, A. Sc. T



TOP
BY
DATE
BY
DATE
BY
DATE

SECONDARY
MAIN
BREAKER

EQUIPMENT I.D. NUMBER
LOCATION
3340

CM835F000
8811

OFF

800A.



KM83EF000

811



SECONDARY
MAIN
BREAKER

EQUIPMENT I.D. NUMBER

LOCATION

3340

LUO K11
CCRL-43
4-6-800-1111
1-800-222-2222

OFF

11-1-12

FP BF

FLOAT B

FLOAT C

FP CF

FEDERAL PIONEER LIMITED
FOR 24 HOUR SERVICE ON THIS EQUIPMENT CALL YOUR NEAREST SALES OFFICE OR SERVICE CENTRE
SERVICE LOCATIONS
ATLANTIC -- (802) 468-2621
QUEBEC -- (514) 444-0800
ONTARIO -- (416) 629-3942
MIDWEST -- (204) 453-6166
ALBERTA -- (403) 255-2266
PACIFIC -- (604) 273-3531

FP BF

FLOAT B

FLOAT C

FP CF

**FEDERAL PIONEER
LIMITED**

**FOR 24 HOUR
SERVICE ON THIS
EQUIPMENT CALL
YOUR NEAREST
SALES OFFICE OR
SERVICE CENTRE**

SERVICE LOCATIONS

ATLANTIC - (902) 455-2621
QUEBEC - (514) 444-0500
ONTARIO - (416) 629-3942
MIDWEST - (203) 453-6166
ALBERTA - (403) 455-2026
PACIFIC - (604) 273-3531

FEDERAL PIONEER LIMITED

FEDERAL PIONEER LIMITED

CG

DER
ASH DN
IP REC.

SUB STN PNL D

POLES **3**

MAX. VOLTS
TENSION MAX. **600**

CURRENT INTERRUPTING RATING
VALEUR NOMINALE D'INTERRUPTION
MAX. RMS - SYM./VAL. EFF. MAX.

VOLTS	KA
240	18
480	14
600	14
250DC	10

USE OUTSIDE POLES FOR DC.
SUITABLE FOR USE ON SINGLE PHASE
AC CIRCUITS.
EN C. C. UTILISER LES POLES
EXTERIEURS.
CONVIENT AUX CIRCUITS C.A.
MONOPHASES.

**CIRCUIT BREAKER
DISJONCTEUR**

**FEDERAL
PIONEER**

HORIZON

FRAME CAT. NO. TYPE DE CHASSIS
CE3150B

CURRENT RATING
VALEUR NOMINALE
150 AMP

5075°C WIRE 15-125 A ONLY
FIL 5075°C 15-125 A SEULEMENT

MAX. AMB. TEMP. /TEMP. AMB. MAX. 40°C

TERMINAL TORQUE VALUES
COUPLE DE SERVISSE DES BORNES

SIZE/AIL	LB./PO
5/32"	100
3/16"	120
1/4"	35
5/16"	40
3/8"	45
1/2"	50

SOCKET HEAD
TETE CREUSE

SLOTTED HEAD
TETE FENDUE

C/U/AI

FEDERAL PIONEER LIMITED
LONDON
ENGLAND

WZ22P2000001



FEDERAL

FEDERAL PIONEER LIMITED
CIRCUIT BREAKER DISJONCTEUR
TYPE 600 C.A. V.A.L.
40° C. C.A. V.A.L.
AIEC COMPENSATION
CURRENT INTERRUPTING CAPACITY
MAX. RMS SYM. R.M.S.S.A.N.C.E. D.E. EUR EFF.
NOMINAL
MAX. 18200 240 VOLT
14000 480 VOLT
14000 690 VOLT
14000 1050 VOLT

150

DEJA
D'INTERNE

P CG

WELDER
OR WASH DN
PUMP REC.

SUB

F.P.I.

F E D E R A L

P I O N E E R

VANCOUVER, B.C.

SWITCHGEAR UNIT
APPAREIL DE COMMUTATION
CSA STANDARD C22.2 NO. 31
NORME ACNOR C22.2 NO. 31

AMPS

800

120/208

VOLTS

KV BIL

NO.

03747-A1-89

60

HZ

3-4

Ø WIRE



SWITCHGEAR UNIT
APPAREIL DE COMMUTATION

LL7160

S-25

**FEDERAL
PIONEER**

**PACIFIC
SERVICE**




PACIFIC SERVICE

SUBSTATION NO. 4
MAIN SWITCH



S4-89-MPT4

⚠ DANGER
Arc Flash and Shock Hazard
Appropriate PPE Required



0.8 inch Flash Protection Boundary
0.5 second Arc Flash Energy at 24 inches
Class 2 Hazard Risk Cat. See NFPA 70E for PPE
1000 VAC Shock Hazard unless noted or approved
19.5 ft Limited Approach
2.5 ft Restricted Approach
0.5 ft Prohibited Approach

See NFPA 70E

Flight Rating: 0.8.00 MPT4

Model: 10-12-2006

Base values on this label are provided by Schneider Canada. Further analysis performed on GILF circuit above. Any modification of equipment, replacement of any one setting, or failure to comply with warning equipment with compliance these values.
For more information contact Schneider Canada Services at 1 800 883 5274.

ON

FOR 24 HOUR SERVICE ON THIS EQUIPMENT CALL YOUR NEAREST SERVICE CENTER

SERVICE LOCATIONS

ATLANTA	404-875-2200
CHICAGO	630-291-2200
CLEVELAND	216-291-2200
MIDWEST	402-542-2200
ALBERTA	(403) 455-2200
PACIFIC	(800) 477-2200



FEDERAL PIONEER LIMITED

FPL

DATE: _____
TIME: _____
BY: _____
SERVICED BY: _____

FPL

FIELD SERVICE

SERVICED BY: _____

F.P.L. **FEDERAL**
PIONEER
VANCOUVER, B.C.

SWITCHGEAR UNIT
APPAREIL DE COMMUTATION
CSA STANDARD C22.2 NO. 31
NORME ACNOR C22.2 NO. 31

AMPS	600	4160	VOLTS	KV BIL	
NO.	Q3747-A1-89	60	HZ	3-3	Ø WIRE

SP® SWITCHGEAR UNIT
APPAREIL DE COMMUTATION

LL7160	S-25
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WARNING

DO NOT SERVICE THIS SWITCHGEAR
UNLESS ALL CONDUCTORS HAVE BEEN
GROUNDED TO AN ACCEPTABLE PROCEDURE

AVERTISSEMENT

POUR L'ENTRETIEN OU LA REPARATION DE
L'APPAREILLAGE DE COMMUTATION METTRE
LES PARTIES CONDUCTRICES A LA TERRE
SELON LES REGLES DE SECURITE

FEDERAL PIONEER LIMITED



TYPE	NAL 5
K.V.	5
AMPS.	600
I.C. AMPS	600
MOM. AMPS.	4000
IMPULSE K.V.	60
FAULT CLOSING	40 KA ASYM
MAX. FUSE	400
SERIAL NO.	2916



FPL FEDERAL PIONEER
FIELD SERVICE DEPARTMENT
SERVICED _____ BY _____

S4-89-MPT4



FEDERAL PIONEER LIMITED

FPL

TYPE: NAL

K.V. _____

AMPS. _____

I.C. AMPS. _____

MOM. AMPS. _____

IMPULSE K.V. _____

FAULT CLOSING: KA ASYM

MAX. FUSE _____

SERIAL NO. _____



FPL FEDERAL PIONEER

FIELD SERVICE DEPARTMENT

SERVICED _____ BY _____







FEDERAL PIONEER
LIMITED
FPL
SERIAL NO. _____
DATE OF PURCHASE _____
NAME OF BUYER _____
NAME OF SELLER _____
NAME OF DEALER _____
NAME OF CITY _____
NAME OF STATE _____
NAME OF COUNTRY _____

WITH OPEN-WOUND
VPI EPOXY ENCAPSULATED WINDINGS

"SKYTRANS 3"



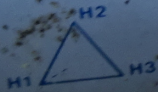
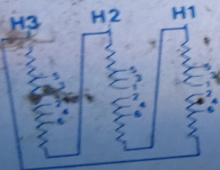
SKYWAY TRANSFORMER

3 PHASE TRANSFORMER
TRANSFORMATEUR TRIPHASE

TYPE ANN KVA 225 % IMP. 5.12 @ 100 °C
 TYPE KVA % IMP. @ °C

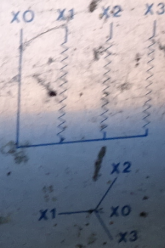
HV HT 4160 BIL 30 KV LV BT 208Y/120 TEMPERATURE RISE 80 °C
 ELEVATION DE TEMPERATURE

INSULATION SYSTEM CLASS 220 HZ 60 ENCLOSURE CSA SERIAL No. 3203-1
 CLASSE D'ISOLEMENT CELLULE No. DE SERIE



H.V. TAP CONNECTIONS PRISES DE H.T.

% VOLTS	CONNECT
105	1-2
102.5	2-3
100	3-4
97.5	4-5
95	5-6



WEIGHTS POIDS

CORE & COIL 2000 Lbs.
 BOBINE, NOYAU
 ENCLOSURE Lbs.
 CELLULE
 TOTAL Lbs.

MADE IN CANADA BY SKYWAY ELECTRIC CO. LTD. BRAMPTON, ONTARIO

MAINTENANCE
 VENTILATED DRY-TYPE TRANSFORMERS
 WITH OPEN-WOUND
 VPI EPOXY ENCAPSULATED WINDINGS

"SKYTRANS 3"



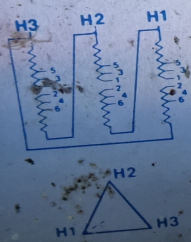
SKYWAY TRANSFORMER

3 PHASE TRANSFORMER
 TRANSFORMATEUR TRIPHASE

TYPE **ANN** KVA **225** % IMP **5.12** @ **100** °C
 TYPE KVA % IMP @ °C

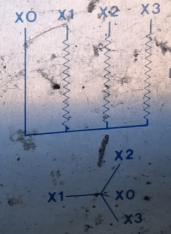
HV **4160** BIL **30** KV LV BT **208Y/120** TEMPERATURE RISE **80** °C
 HT ELEVATION DE TEMPERATURE °C

INSULATION SYSTEM CLASS **220** HZ **60** ENCLOSURE CELLULE **CSA** SERIAL NO. **3205-1**
 CLASSE D'ISOLEMENT NO. DE SERIE



**H.V. TAP CONNECTIONS
 PRISES DE H.T.**

% VOLTS	CONNECT.
105	1-2
102.5	2-3
100	3-4
97.5	4-5
95	5-6



WEIGHTS POIDS
 CORE & COIL **2000** Lbs.
 BOBINE, NOYAU Lbs.
 ENCLOSURE Lbs.
 CELLULE Lbs.
 TOTAL Lbs.

MADE IN CANADA BY SKYWAY ELECTRIC CO. LTD. BRAMPTON, ONTARIO

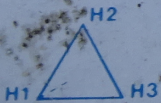
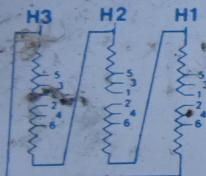
SKYWAY TRANSFORMER

3 PHASE TRANSFORMER
TRANSFORMATEUR TRIPHASE

TYPE ANN KVA 225 % IMP. 5.12 @ 100 °C
 TYPE KVA % IMP. @ °C

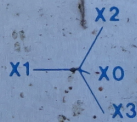
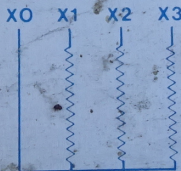
HV HT 4160 BIL 30 KV LV BT 208Y/120 TEMPERATURE RISE ELEVATION DE TEMPERATURE 80 °C

INSULATION SYSTEM CLASS 220 HZ 60 ENCLOSURE CELLULE CSA SERIAL No. No. DE SERIE 3209-1



H.V. TAP CONNECTIONS PRISES DE H.T.

% VOLTS	CONNECT.
105	1-2
102.5	2-3
100	3-4
97.5	4-5
95	5-6



WEIGHTS POIDS

CORE & COIL BOBINE, NOYAU 2000 Lbs.
 ENCLOSURE CELLULE Lbs.
 TOTAL Lbs.

MADE IN CANADA BY SKYWAY ELECTRIC CO. LTD. BRAMPTON, ONTARIO

01/89

N5025

MPT4

		F E D E R A L			
		P I O N E E R			
VANCOUVER, B.C.					
SWITCHGEAR UNIT APPAREIL DE COMMUTATION CSA STANDARD C22.2 NO. 31 NORME ACNOR C22.2 NO. 31					
AMPS	225K VA	4160-120/208	VOLTS	KV BIL	
NO.	03747-A1-89	60	HZ	3-4	Ø WIRE
		SWITCHGEAR UNIT APPAREIL DE COMMUTATION			
LL7160		S-25			



⚠ DANGER
High Voltage
Electrocution Hazard
Do Not Touch
When Energized

⚠ DANGER
High Voltage
Electrocution Hazard
Do Not Touch
When Energized

MAIN

⚠ DANGER
High Voltage
Electrocution Hazard
Do Not Touch
When Energized

FEDERAL
POWER

FPL
FEDERAL POWER
LOGO


250
GAUGE

115V
15A
NEMA 5-15R





SUBSTATION
PANEL
'D'
MAIN 150 AMP

⚠ DANGER		
Arc Flash and Shock Hazard Appropriate PPE Required		
	0.6 inch Flash Protection Boundary	
	0.2 cal/cm ² Incident Energy at 18 inches	
	Cal D Hazard/Risk Cal. See NFPA 70E for PPE	
	208 VAC Shock Hazard when cover is opened	
	10.0 ft Limited Approach	
1 ft Restricted Approach		
0.1 ft Prohibited Approach		
} Boundaries See NFPA 70E		
Eqpt. Name: S4 - PANEL D	Q2CF: 6071	Date: 05-19-2008
<small>Data values on this label are provided by Schneider Canada Services analysis performed on Q2CF shown above. Any modification of equipment, adjustment of trip unit settings, or failure to properly maintain equipment will invalidate these values. For more information contact Schneider Canada Services at 1 800 263 3374.</small>		

SUBSTATION
PANEL
'D'

MAIN 150 AMP

DANGER



Arc Flash and Shock Hazard Appropriate PPE Required

0.6 inch	Flash Protection Boundary	
0.2 cal/cm ²	Incident Energy at 18 inches	
Cat 0	Hazard/Risk Cat. See NFPA 70E for PPE	
208 VAC	Shock Hazard when cover is opened	
10.0 ft	Limited Approach	} Boundaries See NFPA 70E
1 ft	Restricted Approach	
0.1 ft	Prohibited Approach	

Eqpt. Name: S4 - PANEL D

Q2C#: 6071

Date: 05-19-2008

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L12 LAB 717

THREE PHASE

NEUT. LOC.	CIRCUIT	PH ABC PH	CIRCUIT	NEUT. LOC.
	SUB HEATER	1A	2A	PHOTO CELL
	SUB RECPT.	3B	4B	
	PARKING LOT LT.	5C	6C	SUB-SPLIT
	B-FLOAT LT.	7A	8A	
	RAMP RECPT.	9B	10B	GEORGE'S
	BOAT RAMP LT	11C	12C	LITTLE LAB
	SPARE	13A	14A	C-FLOAT LT.
	SPARE	15B	16B	
	SPARE	17C	18C	
		19A	20A	
		21B	22B	
		23C	24C	BOND TESTER
	G-SPARE	25A	26A	SEWER PUMP STN
		27B	28B	
		29C	30C	
		31A	32A	
		33B	34B	
		35C	36C	
		37A	38A	
		39B	40B	
		41C	42C	



24
26



13 11 9 7 5 3 1

FEDERAL PIONEER

2 4 6 8 10 12 14

1/4
É 4 FILS



616 648

NEUT. LOC.

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