

CELL SWITCH DATA

The cell switch is mounted in the lower portion of the instrument compartment. The function of the switch is to indicate to the control circuitry whether the breaker is connected or in the test position (or removed). It is operated mechanically by a series of linkages, which in turn is operated by a cam which rides a ramp on the side of the breaker. The contacts are designated as normally open (N.O.) and normally closed (N.C.). The N.O. contacts are open and the N.C. contacts are closed when the breaker is in the test position or removed from the cell. When the breaker is connected these contacts change mode (i.e., open contacts close, close contacts open). The transition between the test position and connected position can be indicated by connecting the N.O. early make - late break contact in series with the N.C. early make - late break contacts (9 and 12 contact switch only).

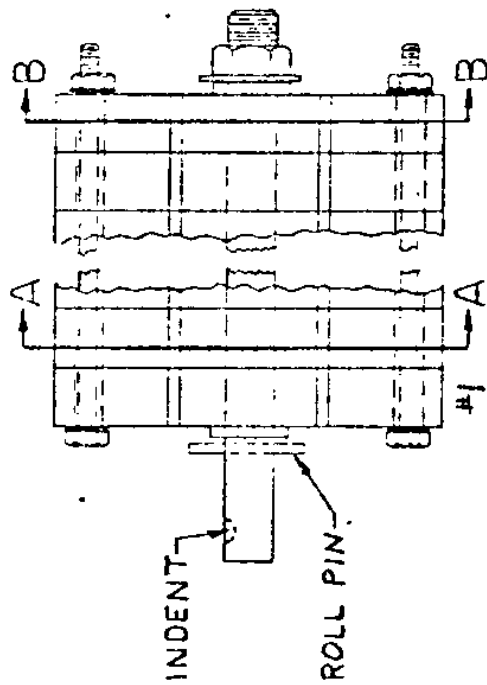
A five contact switch is provided as standard with an option of nine or twelve contacts.

For detail of mounting and the operating mechanism see drawing D44065-125.

Contact ratings are given in PBD-41042.

REV.				C. R.				DATE				BY				DO NOT SCALE - WORK TO DIMENSIONS											
STANDARD TOLERANCE UNLESS OTHERWISE SPECIFIED				LINEAL DIM.				TWO PLACE DECIMAL				± .020															
								THREE PLACE DECIMAL				± .008															
				HOLE DIA.				FRACTIONAL, LETTER, OR NUMBERED DRILL				+ .004															
THREE PLACE DECIMAL												± .002 - .002															
ANGLE				DIMENSIONED ± 1°				UNDIMENSIONED 90° ± 2°																			
SCALE				DRAWN MAJ				CHKD.				DATE 3-23-79				C. R. ce-pbd-022				 SQUARE D COMPANY BARKELEW PLANT MIDDLETOWN, OHIO USA							
TITLE				CELL SWITCH DATA				USED ON				RAWSTOCK															
PRINTS TO																PBD 41205											
A B C D E F G																PAGE 1 OF 6											

STANDARD	LINEAL DIM.	TWO PLACE DECIMAL + 000
SQUARES	M-LE	PARENT SQUARE, EITHER ONE NUMERICAL DIME. + 000
CUBES	DIG.	THREE PLACE DECIMAL + 000
PERCENTAGES	ANNOE	ONE HUNDRED TO 1% + 000

[illegible]

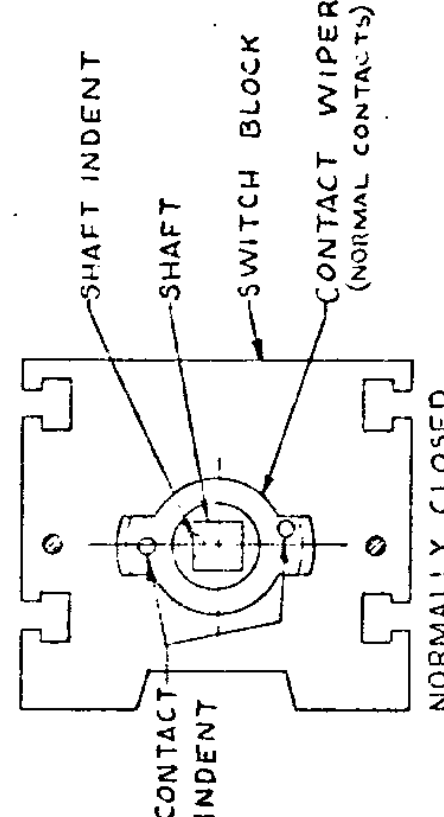
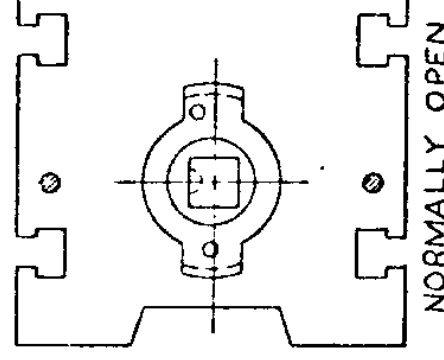
STANDARD CONTACT ARRANGEMENT
BEGIN BLOCK #1 LEFT-TO-RIGHT

5 CONTACT

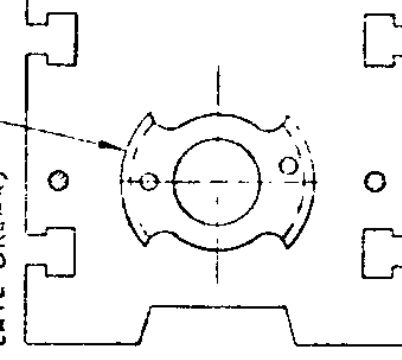
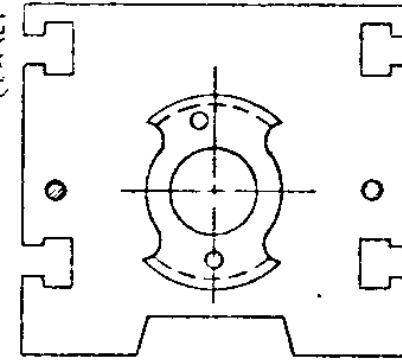
3 CONTACT

2 CONTACT

* EARLY MAKE-LATE BREAK CONTACTS



SECTION A-A



SECTION P-B

SCALE	DRAWN	CHECK	DATE	C.P.		SOURB D COMPANY BARKLEY PLANT MIDDLTOWN OHIO USA	PRINTS TO <table border="1"> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>										
1143			2/2/53	(C) 100-022													
TITLE CELL SWITCH DATA					PBD 41205												
USED ON					PAGE 3 of 6												
SCALE DRAWN CHECK DATE C.P.					BAWSTOCK												

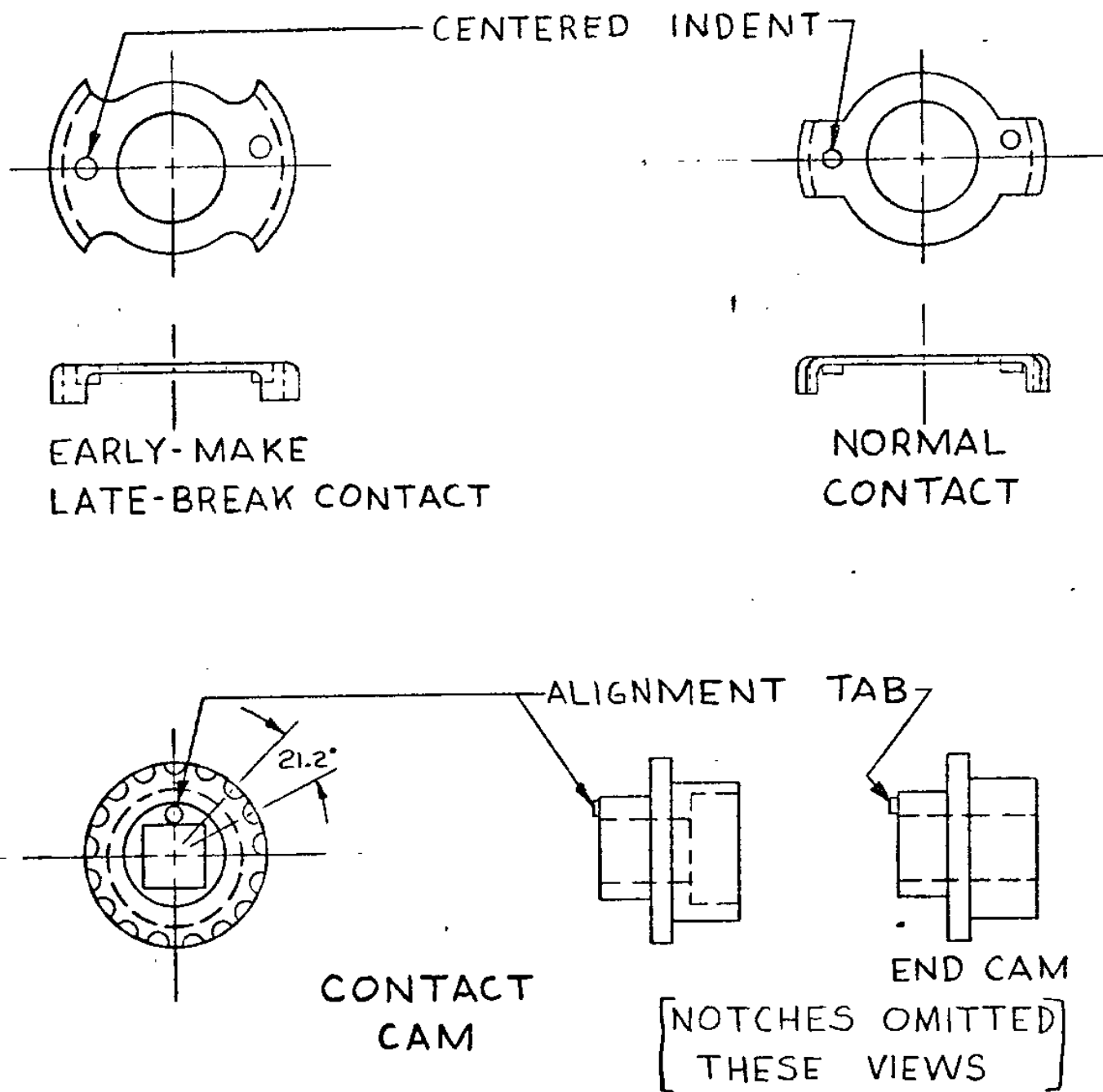


FIG 4

REV.	C. R.	DATE	BY	DO NOT SCALE - WORK TO DIMENSIONS							
				STANDARD TOLERANCE UNLESS OTHERWISE SPECIFIED	LINEAL DIM.	TWO PLACE DECIMAL $\pm .020$					
						THREE PLACE DECIMAL $\pm .005$					
					HOLE DIA.	FRACTIONAL, LETTER, OR NUMBERED DRILL $\pm .004$					
						THREE PLACE DECIMAL $\pm .002$					
					ANGLE	DIMENSIONED $\pm 1^\circ$			UNDIMENSIONED $90^\circ \pm 2^\circ$		
				SCALE	DRAWN	CHKD.	DATE	E. R.		SQUARE D COMPANY BARKELEW PLANT MIDDLETOWN, OHIO USA	
					MAJ		20 MAR 79	022			
				TITLE CELL SWITCH DATA							
				USED ON							
				RAWSTOCK							
PRINTS TO											
16X100											PBD 41205
2/80											PAGE 4 OF 6

A B C D E F G

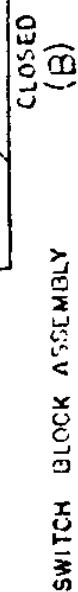
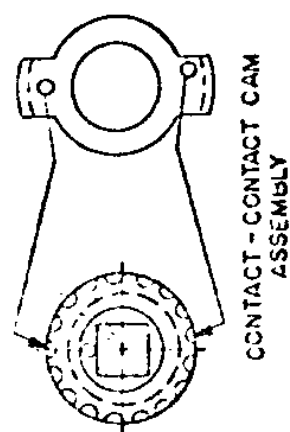
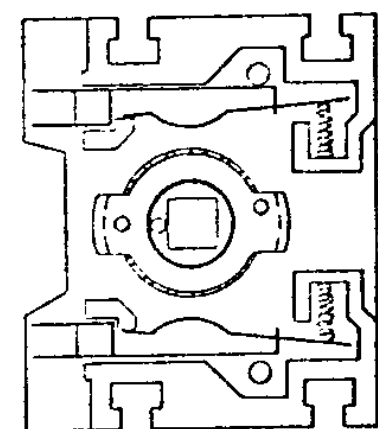
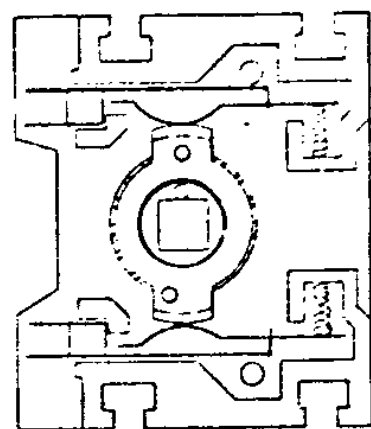
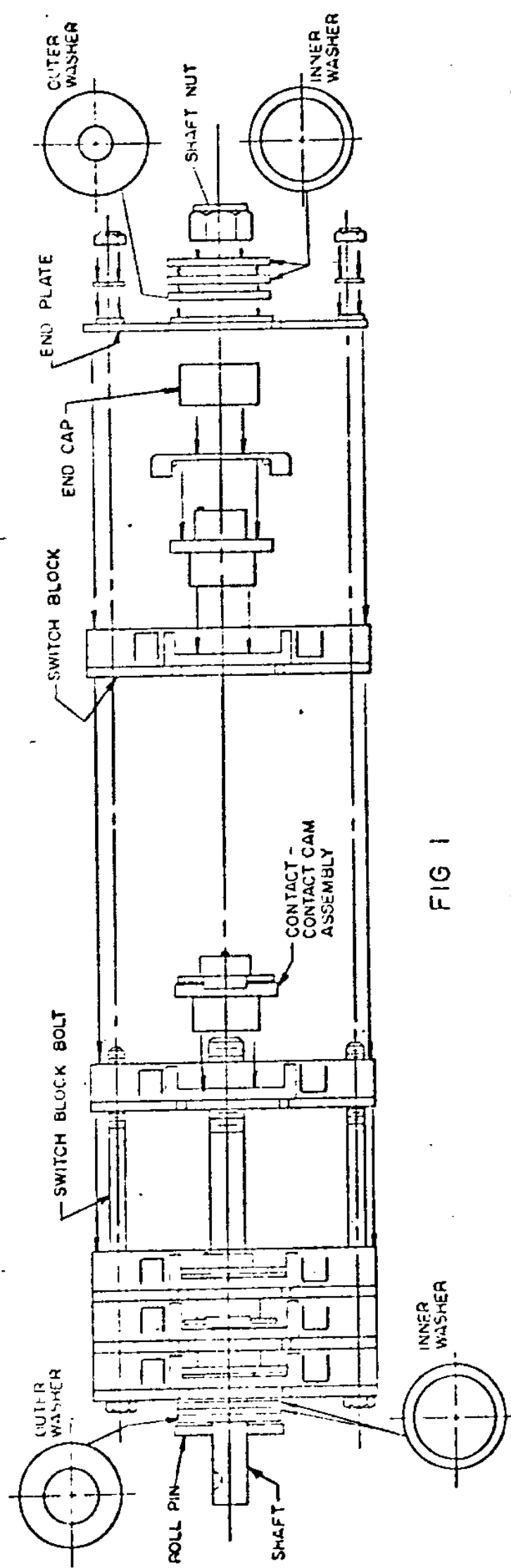


FIG 3

10 3	PRINTS TO				SOURCE D COMPANY BARRELEW PLANT MIDLANDTOWN OHIO USA	PBD 41205 PAGE 5 OF 6
						
	SCALE 1:1	DRAWN MAJ	DATE 11-17-79	CR 860-012		
	TITLE CFIL SWITCH DATA					
	USED ON					
	RAW STOCK					

[illegible]

Cell Switch Assembly Instructions

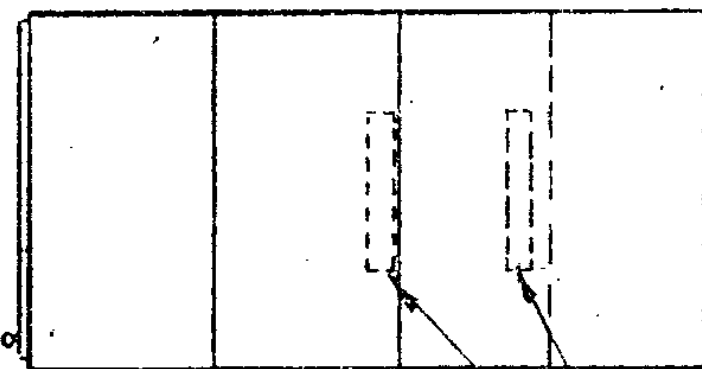
Refer to Pages 4 and 5 of this PBD.

- 1. Disassemble switch by removing the three (3) nuts on the right end (Fig. 1).
- 2. Place three (3) washers on left end of shaft as shown in Fig. 1.
- 3. Place a contact on a contact cam by aligning the centered indent on the contact with the alignment tab on the contact cam (Fig. 2 and 4).
- 4. Place the contact - contact cam assembly in the switch block as shown in Fig. 3. Normally open contact position is shown in Fig. 3A while normally closed is shown in Fig. 3B.
- 5. With the shaft in the position shown in Fig. 1 slide the switch block assembly on the shaft, taking care not to change the contact alignment. Note set contacts to either N.O. or N.C. before installing assembly onto the shaft. The switch block bolts may not be installed to assist in aligning the switch blocks.
- 6. Repeat steps 3 thru 5 for the remaining switch blocks.
- 7. After all switch block assemblies are installed, place end plate, end cap and washers on shaft. Install shaft nut and tighten down. Check contact alignment by rotating shaft. Any contacts not aligned must be corrected at this time by disassembling the contact up to the contact(s) that are misaligned. Proceed at step 3.
- 8. Install switch block bolt washers and nuts as shown in Fig. 1.

REV.	C. R.	DATE	BY	DO NOT SCALE - WORK TO DIMENSIONS										
				STANDARD TOLERANCE UNLESS OTHERWISE SPECIFIED	LINEAL DIM.	TWO PLACE DECIMAL $\pm .020$ THREE PLACE DECIMAL $\pm .005$					SQUARE D COMPANY BARKELEW PLANT MIDDLETOWN, OHIO USA			
					HOLE DIA.	FRACTIONAL, LETTER, OR NUMBERED DRILL $+ .004$ THREE PLACE DECIMAL $\pm .002$ $- .002$								
					ANGLE	DIMENSIONED $\pm 1^\circ$ UNDIMENSIONED $90^\circ \pm 2^\circ$								
				SCALE	DRAWN	CHKD.	DATE	C. R.	 PDB-41205					
					MAJ		3-26-79	CR-PBD-022						
				TITLE					Pg. 6 of 6					
				Cell Switch Assembly Instructions										
				USED ON										
				RAWSTOCK										
PRINTS TO														
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

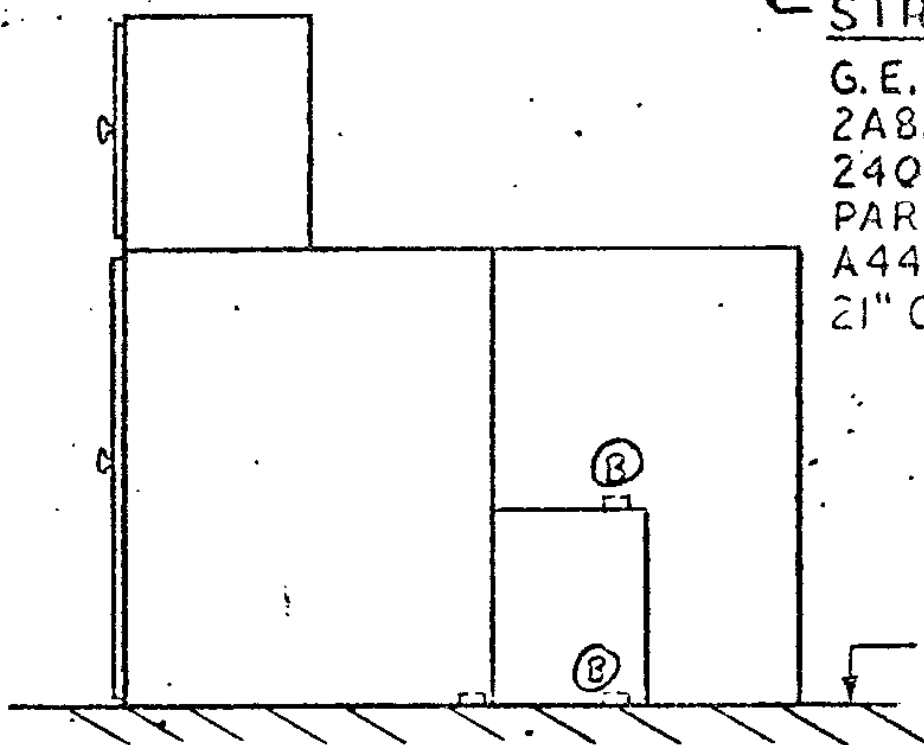
A B C D E F G

TOP VIEW



STRIP HEATER

G.E. CAT. NO.
2A821A201
240V 500W
PART NO.
A44050-082-01
21" CALRCD



FLOOR LINE

SIDE VIEW

REV.	C. R.	DATE	BY	DO NOT SCALE - WORK TO DIMENSIONS				
A	CK-PBD -222	2-12-76	EBZ	STANDARD TOLERANCE UNLESS OTHERWISE SPECIFIED	LINEAL DIM.	TWO PLACE DECIMAL $\pm .080$ THREE PLACE DECIMAL $\pm .009$		
B	CK-PBD -219	3-10-77	EBZ		HOLE DIA.	FRACTIONAL, LETTER, OR NUMBERED DRILL $\pm .004$ THREE PLACE DECIMAL $\pm .003$ - .002		
					ANGLE	DIMENSIONED $\pm 1^\circ$ UNDIMENSIONED $90^\circ \pm 2^\circ$		
				SCALE	DRAWN	CHKD.	DATE	C. R.
				1/32	JA	KJC		
				TITLE STRIP HEATER PLACEMENT				
				USED ON				
				RAWSTOCK				
PRINTS TO				 SQUARE D COMPANY BARKELEW PLANT MIDDLETOWN, OHIO USA				
				PBD 41241 ^(A)				

A

R

C

D

E

F

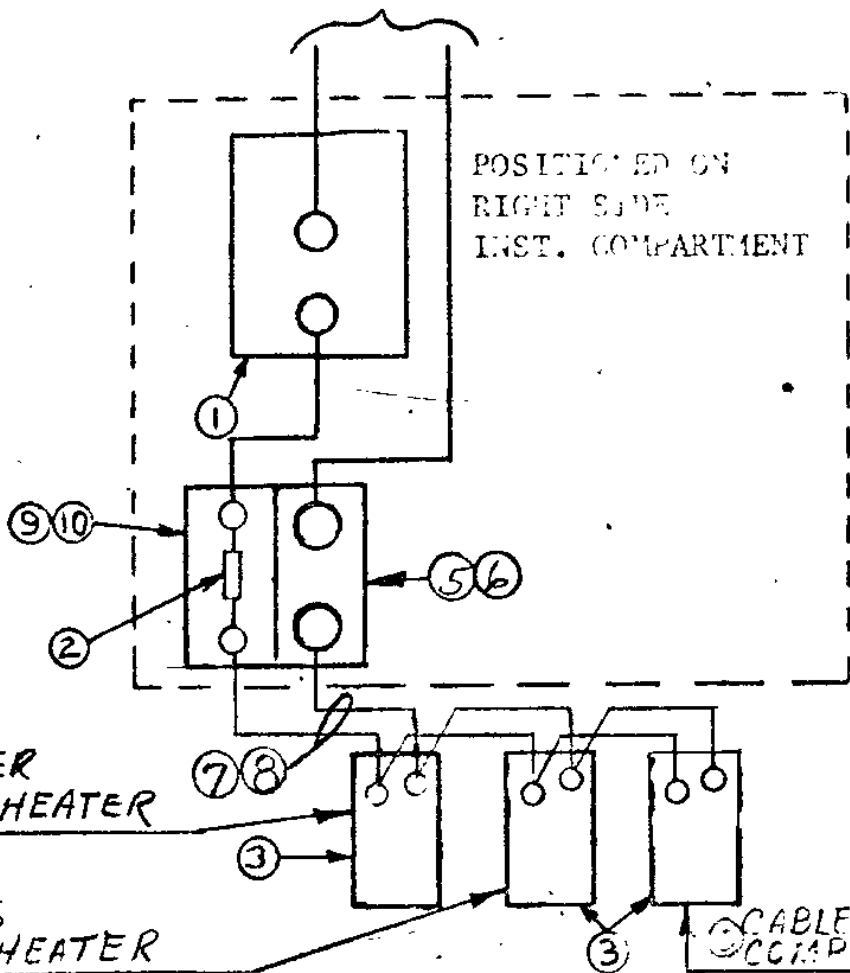
G

NO.	QTY	PART NUMBER	DESCRIPTION
1	1	D44050-076-60	THERMOSTAT
2	1	25419-50500	KLM-5A 500V FUSE
3	3	A44050-082-01	21" 500 WATT HEATER
5	1	4090020	KC-1 TERMINAL BLOCKS
6	1	4090021	K-1 BARRIER KIT
7	45'	1393-026440	14 AWG WIRE 600 VOLT
8	45'	A80031-008-03	WIRE SHEILDING
9	1	4090023	KH-1 FUSE BLOCK
10	1	4090024	KH-2 BARRIER KIT

120V AC FROM CIRCUIT BREAKER
PANEL BOARD OR AC SOURCE

NOTE: WIPEMEN MUST CALIBRATE
THERMOSTATS BEFORE INSTALLING
IN GEAR.

1. REMOVE POINTER FROM DIAL.
2. INSTALL A44050-077-01 (LEGEND
PLATE) OVER TOP OF L-M-H
LEGEND PLATE ON THERMOSTAT.
3. TURN DIAL UNTIL CONTACTS CLOSE.
4. INSTALL POINTER AT TEMPERATURE
OF SURROUNDINGS.

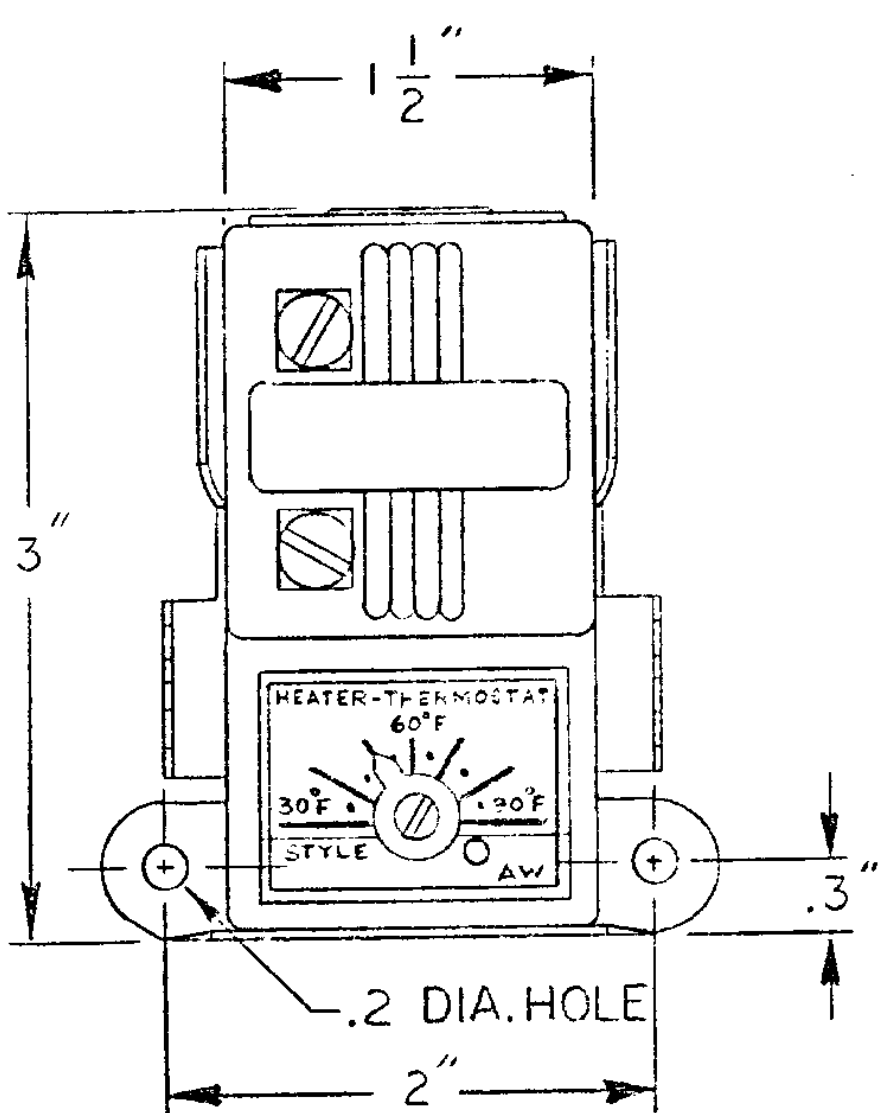


FOR PLACEMENT OF HEATERS
SEE PBD-41241

See M/L 44061-100-50 for parts list.

REV.	C.R.	DATE	BY	DO NOT SCALE - WORK TO DIMENSIONS			
A	CR-450	8-12-76	EBZ	STANDARD TOLERANCE UNLESS OTHERWISE SPECIFIED	LINEAL DIM.	TWO PLACE DECIMAL THREE PLACE DECIMAL	$\pm .020$ $\pm .008$
B	CR-450	11-22-76	EBZ		HOLE DIA.	FRACTIONAL, LETTER, OR NUMBERED DRILL THREE PLACE DECIMAL	$\pm .004$ $\pm .002$ $-.002$
C	CR-450	12-16-76	EBZ		ANGLE	DIMENSIONED $\pm 1^\circ$ UNDIMENSIONED $90^\circ \pm 2^\circ$	
D	CR-450	3-10-77	EBZ				
SCALE				DRAWN	CHKD.	DATE	C.R.
~				KJC		10-16-75	
TITLE				STRIP HEATER WIRING DIAG.			
USED ON				METAL CLAD			
RAWSTOCK							
PRINTS TO				PBD-41242			

A B C D E F G



SCHEMATIC
CONTACT CLOSE
ON FALLING TEMP.

RECOMMENDED THERMOSTAT FOR DSE BREAKER CELL.
(A44050-076-60 THERMOSTAT)

600 W 208-480 VAC
3000 W 120 VAC
ADJUSTABLE 30°F TO 90°F
DIFFERENTIAL 10°F
TOLERANCE ±5°F

REV.	C. R.	DATE	BY	
DO NOT SCALE - WORK TO DIMENSIONS				
STANDARD TOLERANCE UNLESS OTHERWISE SPECIFIED		LINEAL DIM.	TWO PLACE DECIMAL ± .020 THREE PLACE DECIMAL ± .005	
		HOLE DIA.	FRACTIONAL, LETTER, OR NUMBERED DRILL + .004 THREE PLACE DECIMAL ± .002 - .002	
		ANGLE	DIMENSIONED ± 1° UNDIMENSIONED 90° ± 2°	
SCALE	DRAWN	CHKD.	DATE	C. R.
1:1	J-A	KJC	4-21-75	
TITLE THERMOSTAT				
USED ON				
RAWSTOCK				
PRINTS TO				
A B C D E F G				

SQUARE D COMPANY
BARKELEW PLANT
MIDDLETOWN, OHIO USA

PBD 41243

A B C D E F G

B44025-328-01	"Square D Company" Sign
A44035-902-01	Shipping Brace Label
A44050-025-01	Warning High Voltage
A44050-077-01	Legend Plate for Thermostat
A44050-244-01	Device Designation Label
B44050-304-01	Incoming Line Phase Connection Label
C44060-170-01	Operating Instructions Label
A44060-189-01	Connect Position Nameplate
A44060-190-01	Disconnect and Test Position Nameplate
A44060-235-01	Interlock Nameplate
B44060-245-01	Padlock Slide Decal
A44060-246-01	Bus Insulation Caution
B44060-247-01	Switchgear Rating Label
B44060-346-01	Shutter Decal
A44060-347-01	Manufactured in USA Using French and US Components
B44060-523-01	Relay Setting Tag
A44060-866-01	Height Adjustment Nameplate
A44060-867-01	Leveling Screw Nameplate
B44061-155-01	Ground and Test Nameplate
B44061-156-01	Ground and Test
C44061-464-01	M.G.T.U. Operating Instructions
B44061-465-01	Ground and Test Warning Label

REV.	C. R.	DATE	BY	DO NOT SCALE - WORK TO DIMENSIONS									
G-RET	MC-1-312	17 SEPT 82	ERK	STANDARD TOLERANCE UNLESS OTHERWISE SPECIFIED	LINEAL DIM.	TWO PLACE DECIMAL $\pm .020$							
D	PBD-036	10-11-83	JK			THREE PLACE DECIMAL $\pm .009$							
					HOLE DIA.	FRACTIONAL, LETTER, OR NUMBERED DRILL $+$.004							
						THREE PLACE DECIMAL $\pm .002$		$-$.002					
				ANGLE	DIMENSIONED $\pm 1^\circ$		UNDIMENSIONED $90^\circ \pm 2^\circ$						
				SCALE	DRAWN	CNKO.	DATE	C. R.	 SQUARE D COMPANY BARKELEW PLANT MIDDLETOWN, OHIO USA				
					EBZ		7-27-76						
				TITLE									
				LABELS FOR METAL CLAW SWGR.									
				USED ON					PBD-41250 Pg. 1 of 3				
PRINTS TO													
SY				RAWSTOCK									

B44061-500-01	Danger Label
A44061-764-01	Transformer Grounding Label
A44061-765-01	Padlock Provision
B44061-766-01	C.P.T. Interlock Nameplate
B44061-929-01	Manual Ground and Test
B44065-063-01	Breaker Rating Nameplate
A44065-064-01	Close Pushbutton Label
A44065-064-02	Open Pushbutton Label
A44065-068-01	Control Voltage Nameplate
A44065-069-01	Target Nameplate
A44065-080-01	Pointer Nameplate
B44065-096-01	Arc Chute Caution Label
A44065-106-01	Interlock Defeat Label
B44065-149-01	Packing Label (Tool Kit)
D44065-157-01	15kV Escutcheon
D44065-158-01	5kV Escutcheon
A44065-161-01	P.B. Defeat Decal
B44065-268-01	Runback Position Decal
C44065-288-01	Operating Instructions A.G.T.U.
A44065-299-01	Legend Plate
B44065-313-01	Tipping Caution Tag
B44065-345-01	Control Power Connection Nameplate

REV.	C. R.	DATE	BY	DO NOT SCALE - WORK TO DIMENSIONS											
C-RET	ML-1-0312	17 SEPT 82	ERIK	STANDARD TOLERANCE UNLESS OTHERWISE SPECIFIED	LINEAL DIM.	TWO PLACE DECIMAL		±	.000						
D	PBD-036	10-11-83	JK			THREE PLACE DECIMAL		±	.000						
					HOLE DIA.	FRACTIONAL, LETTER, OR NUMBERED DRILL					+	.004			
						THREE PLACE DECIMAL					±	.002	-	.002	
					ANGLE	DIMENSIONED ± 1°					UNDIMENSIONED 90° ± 2°				
				SCALE	DRAWN	CHKD.	DATE	C. R.							
					EBZ		7-27-76								
				TITLE											
				LABELS FOR METAL CLAD SWGR.											
				USED ON											
				RAWSTOCK											
PRINTS TO															
SY															



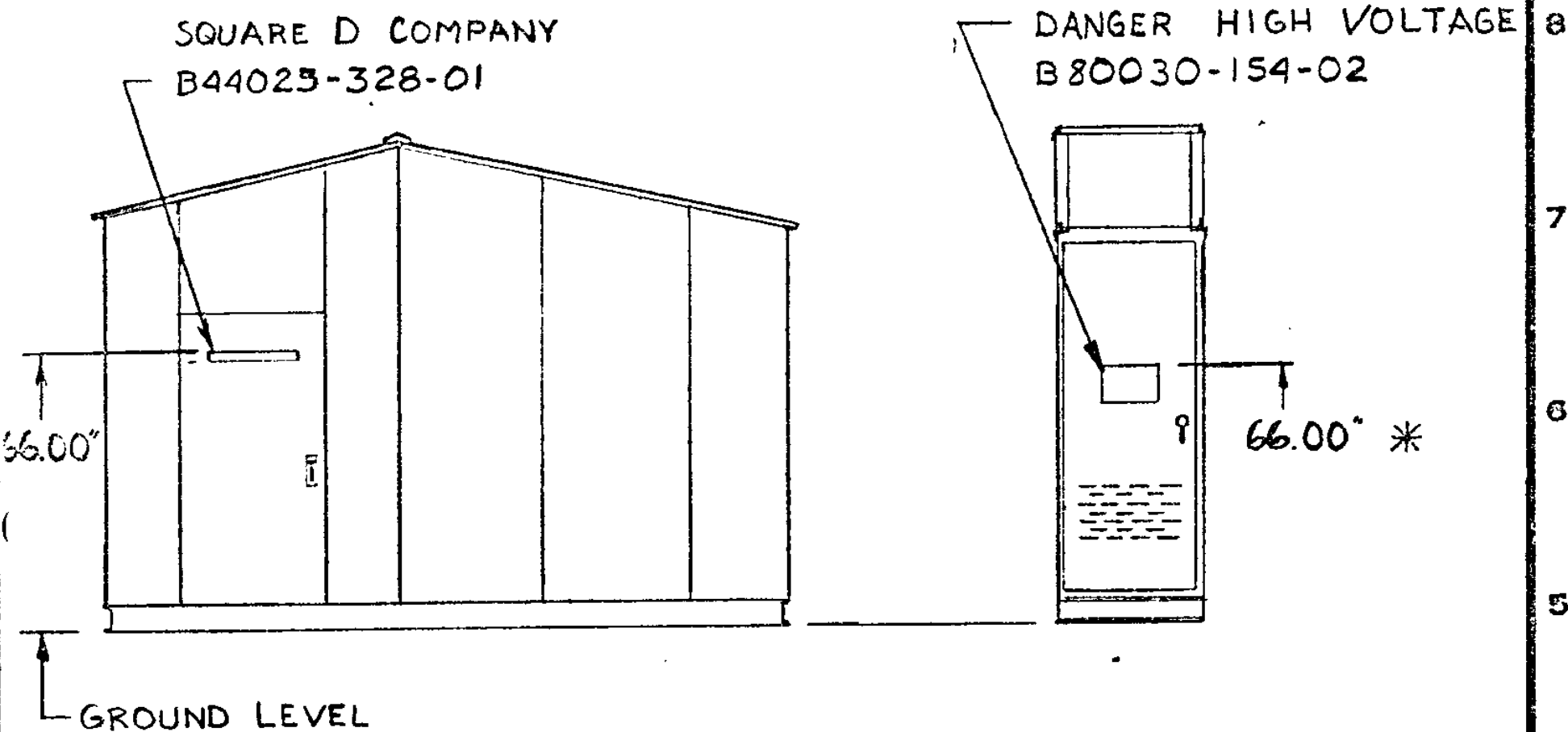
SQUIRE D COMPANY
BARKELE / PLANT
MIDDLETOWN, OHIO USA

PBD-41250 Pg. 2 of 3

B80030-154-01	"Danger - High Voltage" Sign - Indoor
B80030-154-02	"Danger - High Voltage" Sign - Outdoor
B44065-392-01 Ⓢ	Caution Label for Moving Arcing Blades
B44062-033-01 Ⓢ	"5kV Tape Kit" - Label
B44062-034-01 Ⓢ	"15kV Tape Kit" - Label
A44062-025-01 Ⓢ	"Customer to Ground" - Label

REV.	C. R.	DATE	BY	DO NOT SCALE - WORK TO DIMENSIONS												
C-RET	MC-1-C312	17SEPT82	ERk	STANDARD TOLERANCE UNLESS OTHERWISE SPECIFIED	LINEAL DIM.	TWO PLACE DECIMAL ± .020 THREE PLACE DECIMAL ± .005										
D	PBD-036	10-11-83	JK		HOLE DIA.	FRACTIONAL, LETTER, OR NUMBERED DRILL + .004 THREE PLACE DECIMAL ± .002 - .002										
					ANGLE	DIMENSIONED ± 1° UNDIMENSIONED 90° ± 2°										
					SCALE	DRAWN	CHKD.	DATE	C. R.	 SQUARE D COMPANY BARKELEW PLANT MIDDLETOWN, OHIO USA						
						FB7		7-27-76								
				TITLE		LABELS FOR METAL CLAD SWGR.										
				USED ON												
PRINTS TO				RAWSTOCK												
SY															PBD-41250	Pg. 3 of 3

OUTDOOR SWITCHGEAR
SIGN LOCATION



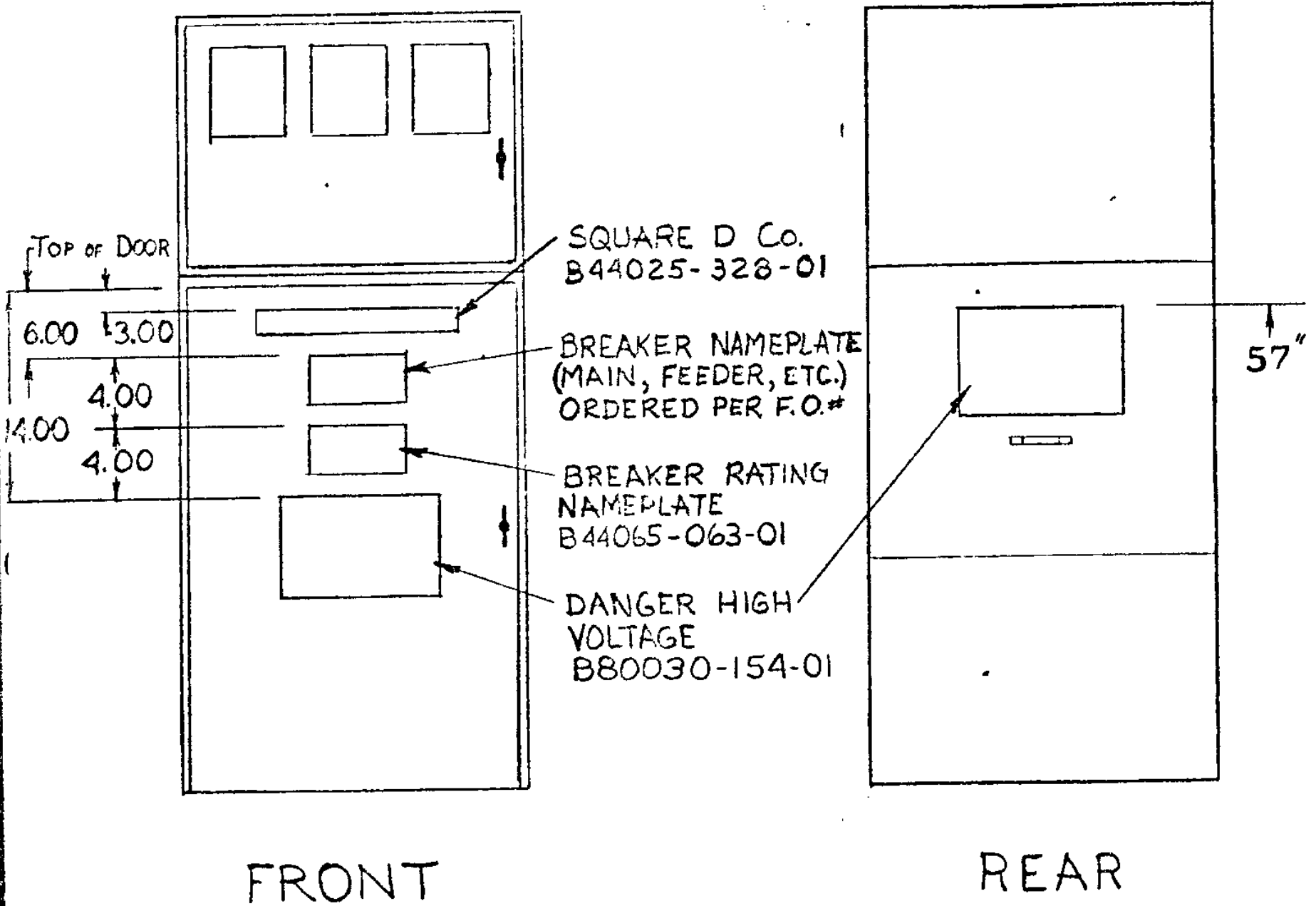
* NOTE: THIS DIMENSION IS
TYPICAL ON BOTH THE FRONT
AND REAR DOORS OF THE
NON-WALK IN BLDG.

REV.	C. R.	DATE	BY	DO NOT SCALE - WORK TO DIMENSIONS										
				STANDARD TOLERANCE UNLESS OTHERWISE SPECIFIED	LINEAL DIM.	TWO PLACE DECIMAL $\pm .020$ THREE PLACE DECIMAL $\pm .008$								
					HOLE DIA.	FRACTIONAL, LETTER, OR NUMBERED DRILL $+ .004$ THREE PLACE DECIMAL $\pm .002$ $- .003$								
					ANGLE	DIMENSIONED $\pm 1^\circ$ UNDIMENSIONED $90^\circ \pm 2^\circ$								
				SCALE	DRAWN	CHKD.	DATE	C. R.	 SQUARE D COMPANY BARKELEW PLANT MIDDLETOWN, OHIO USA					
					DAG		8-24-73	PBD 028						
				TITLE NAMEPLATE LOCATION										
				USED ON										
				RAWSTOCK					PBD-41255 PAGE 1					

A B C D E F G

INDOOR SWITCHGEAR

SIGN LOCATION



REV.	C. R.	DATE	BY

DO NOT SCALE - WORK TO DIMENSIONS			
STANDARD TOLERANCE UNLESS OTHERWISE SPECIFIED	LINEAL DIM.	TWO PLACE DECIMAL $\pm .020$ THREE PLACE DECIMAL $\pm .008$	
	HOLE DIA.	FRACTIONAL, LETTER, OR NUMBERED DRILL $+ .004$ THREE PLACE DECIMAL $\pm .002$ $- .002$	
	ANGLE	DIMENSIONED $\pm 1^\circ$ UNDIMENSIONED $90^\circ \pm 2^\circ$	
SCALE	DRAWN DAG	CHKD.	DATE 8-24-79
TITLE NAMEPLATE LOCATION		C. R. PBD 028	
USED ON			
PRINTS TO			
RAWBYOCK			

SQUARE D COMPANY	
BARKELEW PLANT MIDDLETOWN, OHIO USA	

PBD - 41255 PAGE 2

A B C D E F G

BUS BARS AND STRUCTURES

This standard sheet defines the standard cross section of bus bars for different current ratings of metal clad equipment. Standard bus bar sections are also listed.

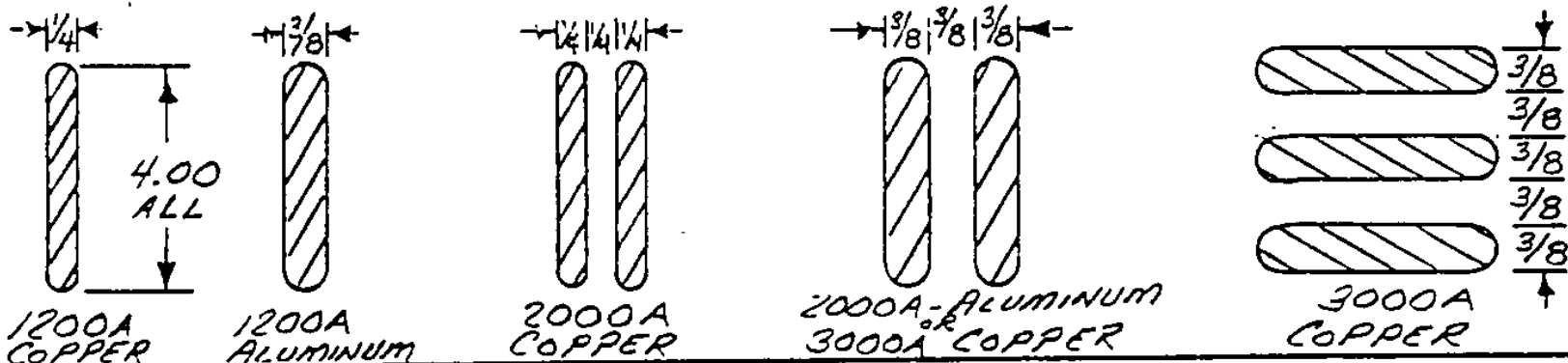
RATING ^②	MATERIAL ^①	NUMBER OF CONDUCTORS IN PARALLEL	SIZE BUS
1200A	Copper	1	1/4" x 4"
2000A	Copper	2	1/2" x 4"
3000A	Copper	2 or 3	3/8" x 4"
1200A	Aluminum	1	3/8" x 4"
2000A	Aluminum	2	3/8" x 4"
3000A	Aluminum	NOT AVAILABLE	

① After fabrication:

- A) Copper bus to be used at bolted joints to be silver flashed per MS100,019. Copper bus to be used at moving contacts to be silver plated per MS 100,015.
- B) Aluminum bus is to be preplated .00025 thick by tin-alstan process before fabrication.
- C) Bus bars are to be epoxy coated per dwg. A44060-374 within 4.50 inches from the ends when possible.

② All ratings are based on a 65°C rise over 40°C ambient.

BASIC BUS SECTIONS: ALL EDGES FULL ROUND. BUS INSULATION NOT SHOWN



REV.	C. R.	DATE	BY	DO NOT SCALE - WORK TO DIMENSIONS									
B-RET	PBD-036	10-11-83	JK	STANDARD TOLERANCE UNLESS OTHERWISE SPECIFIED		LINEAL DIM.	TWO PLACE DECIMAL THREE PLACE DECIMAL		± .020 ± .005				
						HOLE DIA.	FRACTIONAL, LETTER, OR NUMBERED DRILL THREE PLACE DECIMAL		+ .004 ± .002 - .002				
						ANGLE	DIMENSIONED ± 1°		UNDIMENSIONED 90° ± 2°				
SCALE				DRAWN	CHKD.	DATE	C. R.	 SQUARE D COMPANY BARKELEW PLANT MIDDLETOWN, OHIO USA					
				EBZ		7-20-76							
TITLE				BUS BARS AND STRUCTURES									
USED ON				RAWSTOCK									
PRINTS TO								PBD 41301					
SY								Pg. 1 of 3					

FEEDER LOAD BUS ASSEMBLIES

The feeder load bus in the metal clad cubicle has many different components and sizes. These assemblies were designed to ease the selection of the required parts for the feeder load bus assembly.

Each assembly includes the parts for all three phases.

Refer to PBD 41710 for assembly part numbers.

MAIN CROSS BUS ASSEMBLIES

The main crossbus in the metal clad cubicle has many different components and sizes. These assemblies were designed to ease the selection of the required parts for the main bus assembly.

15kV and Series I 5kV

In these material lists there are three basic classifications of main bus parts. The first is the Straight Bus Assemblies, the second is the Offset-Bus Assemblies, and the third is the End Bus Boot Assemblies.

The Straight Bus Assemblies include the straight pieces of bus only.

The Offset Bus Assemblies include the offset bus pieces plus the necessary hardware and boots to outfit one end of the offset bus.

The End Bus Boot Assemblies include the end boots and necessary hardware and spacers to finish one end of the main bus.

Each assembly includes the parts for all three phases.

In practice the assemblies are selected as indicated below for each continuous line-up of breaker cells:

Select one Straight Bus Assembly. Select the necessary number of Offset Bus Assemblies to complete the main bus run. Select two End Bus Boot Assemblies to finish off the ends of the bus run.

Refer to PBD-41710 and 44061-098-50 for assembly part numbers.

REV.	C.R.	DATE	BY	DO NOT SCALE - WORK TO DIMENSIONS										
B-Key	PBD-036	10-11-83	JK	STANDARD TOLERANCE UNLESS OTHERWISE SPECIFIED		LINEAL DIM.		TWO PLACE DECIMAL $\pm .000$		THREE PLACE DECIMAL $\pm .000$				
						HOLE DIA.		FRACTIONAL, LETTER, OR NUMBERED DRILL $\pm .004$						
								THREE PLACE DECIMAL $\pm .001$ - .005						
						ANGLE		DIMENSIONED $\pm 1^\circ$ UNDIMENSIONED $90^\circ \pm 2^\circ$						
				SCALE	DRAWN	CHRD.	DATE	C.R.	 SQUARE D COMPANY MIDDLETOWN, OHIO USA					
					EBZ		7-20-76							
				TITLE BUS BARS AND STRUCTURES										
				USED ON					PBD 41301 Pg. 2 of 3					
PRINTS TO														
S Y				RAWSTOCK										

5kV Series II

In these material lists are three basic classifications of main bus parts. The first is the left end, the second is the thru, and the third is the right end.

The left end assemblies include boots, bus, bus braces and the necessary connection hardware.

The thru assemblies include boots, bus, bus braces and the necessary connection hardware.

The right end assemblies include boots, bus braces and the necessary connection hardware.

Each assembly includes the parts for all three phases.

In practice the assemblies are selected as indicated below for each continuous line-up of breaker cells:

Select one left end assembly.

Select the necessary number of thru assemblies to complete the main bus run.

Select one right end assembly.

Refer to PBD-41710 and 44061-787-50 for assembly part numbers.

REV.	C. R.	DATE	BY	DO NOT SCALE - WORK TO DIMENSIONS										
2-15	PBD-436	10-11-83	JK	STANDARD TOLERANCE UNLESS OTHERWISE SPECIFIED		LINEAL DIM.		TWO PLACE DECIMAL $\pm .000$		THREE PLACE DECIMAL $\pm .000$				
						HOLE DIA.		FRACTIONAL, LETTER, OR NUMBERED DRILL $\pm .004$						
								THREE PLACE DECIMAL $\pm .001$ - .002						
						ANGLE		DIMENSIONED $\pm 1^\circ$ UNDIMENSIONED $90^\circ \pm 2^\circ$						
				SCALE	DRAWN	CHECKED	DATE	C. R.	 SQUARE D COMPANY MIDDLETOWN, OHIO USA					
					EBZ		7-20-76							
				TITLE BUS BARS AND STRUCTURES										
				USED ON					PBD-41301 Pg. 3 of 3					
PRINTS TO				RAWSTOCK										
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[illegible]

3M SCOTCH TAPE USED FOR INSULATION OF STRAIGHT BUS AND BUS JOINTS FOR 5KV AND 15KV SWITCHGEAR

ELEC. INSULATING PUTTY - SCOTCHFIL

1-1/2" x 60" x 1/8" thick - Roll Size

Used on bus joints to provide a smooth insulation build up to reduce the concentrated field created by the irregular shaped joint.

ELECTRICAL SEMI-CONDUCTING TAPE - NO. 13

3/4" x 15' - Roll Size

Used on bus joints along with the insulating putty to help provide a uniform electrical field around the bus joint.

CORONA-RESISTANT HIGH-VOLTAGE SPLICING TAPE - NO. 23

1" x 30' - Roll Size

Used on straight bus and bus joints to provide insulation.

LINERLESS HI-VOLTAGE ELECTRICAL TAPE - NO. 130C

3/4" x 30' x .03" - Roll Size

Interchangeable with No. 23. No. 130C is more convenient to use than No. 23.

VINYL PLASTIC ELECTRICAL HEAVY DUTY TAPE - NO. 22

1" x 36 yds. x 10 mills thick - Roll Size

Used on straight bus and bus joints along with 130C.

Provides protection from the weather and some electrical insulation.

Lengths of bus between bus joints are wrapped with two layers each of No. 22 and with either No. 23 or No. 130C. The first layer, either No. 23 or 130C, is wrapped in a half-lapped fashion, starting 1-1/2 inch from the bus joint. The bus is wrapped with one complete layer of tape and then a second layer of tape is applied starting from the opposite end. Two layers of No. 22 are then applied in the same manner to finish insulating the bus.

REV.	C. R.	DATE	BY	DO NOT SCALE - WORK TO DIMENSIONS										
A	CR-PDD -013	3-3-77	SK	STANDARD TOLERANCE UNLESS OTHERWISE SPECIFIED		LINEAL DIM.		TWO PLACE DECIMAL $\pm .020$		THREE PLACE DECIMAL $\pm .005$		 SQUARE D COMPANY BARKELEW PLANT MIDDLETOWN, OHIO USA		
						HOLE DIA.		FRACTIONAL, LETTER, OR NUMBERED DRILL $\pm .004$						
								THREE PLACE DECIMAL $\pm .002$ - .003						
						ANGLE		DIMENSIONED $\pm 1^\circ$ UNDIMENSIONED $90^\circ \pm 2^\circ$						
				SCALE	DRAWN	CHKD.	DATE	C. R.	PED-41315 A					
						KJC	4-30-75							
				TITLE TAPING OF BUS JOINTS										
PRINTS TO				USED ON								Page 1 of 7		
RAWSTOCK														

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3M "SCOTCH" BRAND TAPE USED FOR INSULATION OF STRAIGHT BUS AND BUS JOINTS
FOR 5kV AND 15kV SWITCHGEAR

Four layers of tape are required to insulate a bus joint. The first layer of tape is the "Scotchfil Electrical Insulating Putty". Its purpose is to provide a smooth surface for the No. 13 Electrical Semi-Conducting Tape and fill all voids. Before applying the Scotchfil Putty, round off all sharp edges or pointed areas if possible. The Scotchfil Putty is applied so all sharp edges are covered with 5/8" putty minimum and flat surfaces are covered with 3/8" putty minimum for 5kV bus joints. 15kV bus joints require sharp edges be covered with 3/4" putty minimum and flat surfaces are covered with 1/2" putty minimum. Leave a minimum of 1/2" of the bare bus exposed to allow the Semi-Conducting tape to contact the metal of the bus.

The second layer of tape is the "Electrical Semi-Conducting Tape No. 13". One layer of this tape is wrapped, half-lapped, over the putty and onto the bare bus. The putty is to be completely covered. This tape along with the putty creates a uniform electrical field around the bus joint.

The third layer of tape is wrapped with either "Corona-Resistant High-Voltage Splicing Tape No. 23" or "Linerless Hi-Voltage Electrical Tape - No. 130C". This layer consists of 2 layers of either of these tapes for 5kV bus joints and 4 layers of either of these tapes for 15kV bus joints. Each layer of this tape must completely cover the previous layer and extend onto the bus insulation.

The fourth layer of tape is wrapped with either "Linerless Hi-Voltage Electrical Tape No. 130C" or "Vinyl Plastic Electrical Heavy Duty Tape No. 22". The fourth layer is wrapped with two layers of either of these tapes. This layer of tape extends at least 1.5" onto the existing insulation on the bus.

This completes the insulation of a bus joint.

Where the bus mounts to insulators the following procedures should be used:

If the bus is epoxy coated, plastic covers are used to insulate the bolt heads. They are mounted as described on the next page.

If the bus is taped the mounting holes in the bus are cut open and the plastic covers are mounted as described on the next page.

Incoming and outgoing line terminations are taped in the same manner as the bus joint described above.

REV.	C. R.	DATE	BY	DO NOT SCALE - WORK TO DIMENSIONS									
A	CR-P3D -013	3-3-77	EBZ	STANDARD TOLERANCE UNLESS OTHERWISE SPECIFIED	LINEAL DIM.	TWO PLACE DECIMAL ± .030 THREE PLACE DECIMAL ± .009							
					HOLE DIA.	FRACTIONAL, LETTER, OR NUMBERED DRILL + .004 THREE PLACE DECIMAL ± .002 - .002							
					ANGLE	DIMENSIONED ± 1° UNDIMENSIONED 90° ± 2°							
					SCALE	DRAWN	CHKD.	DATE	C. R.	 SQUARE D COMPANY BARKELEW PLANT MIDDLETOWN, OHIO USA			
					EBZ		2-25-77						
				TITLE						 SQUARE D COMPANY BARKELEW PLANT MIDDLETOWN, OHIO USA			
				USED ON									
PRINTS TO				RAWSTOCK						P3D 41315 (A) Pg. 2 of 7			

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3M SCOTCH TAPE USED FOR INSULATION OF STRAIGHT BUS AND BUS JEINTS FOR 5KV AND 15KV SWITCHGEAR

The first step in using the plastic covers is to make a 3/8" dia. hole in the flat disk. There is only a slot in the disk when purchased. A bolt is slipped through the hole with a flat washer against the disk and a lockwasher on top of the flat washer. The bolt is torqued down to a point where the plastic disk starts to penetrate the insulating tape. Torquing the bolt any further will keep the cap from snapping onto the disk. The next step is to fill the top cover with G.E. silicone caulking compound with a caulking gun or any approved insulating material can be used to fill the top cover. The cap is pushed onto the disk and locked onto the disk. Any excess compound that comes out of the cap should be wiped off.

Each bus joint and insulator connection can be tested to see if it is properly wrapped. Aluminum foil is wrapped around the connection with the edges of the foil being no closer than 1-1/2" from any exposed bus. The bus is energized with rated voltage of the switchgear and the aluminum foil is grounded. The test should run for one minute without the breakdown of the insulation.

THE AMOUNT OF TAPE USED PER FOOT OF 1/4 x 4 STRAIGHT BUS IS:

- 1" Wide No. 23 or No. 130C - 28 Ft.
- 1" Wide No. 22 - 29 Ft.
- 15 & 5KV Bus

THE AMOUNT OF TAPE USED FOR A 15KV BUS JOINT:

- Scotchfil Putty - 5 Rolls
- No. 13 - 1-1/2 Rolls
- No. 23 or 130C - 4 Rolls
- No. 22 - 1 Roll

THE AMOUNT OF TAPE USED FOR A 5KV BUS JOINT:

- Scotchfil Putty - 3 Rolls
- No. 13 - 1-1/2 Rolls
- No. 23 or 130C - 3 Rolls
- No. 22 - 1 Roll

REV.	C. R.	DATE	BY	DO NOT SCALE - WORK TO DIMENSIONS									
A	CE-PBD-013	3-3-77	EBJ	STANDARD TOLERANCE UNLESS OTHERWISE SPECIFIED		LINEAL DIM.		TWO PLACE DECIMAL ± .020		THREE PLACE DECIMAL ± .005			
						HOLE DIA.		FRACTIONAL, LETTER, OR NUMBERED DRILL ± .004 THREE PLACE DECIMAL ± .003 - .002					
						ANGLE		DIMENSIONED ± 1° UNDIMENSIONED 90° ± 3°					
						SCALE	DRAWN	CHKD.	DATE	C. R.			
				TITLE						SQUARE D COMPANY BARKELEW PLANT MIDDLETOWN, OHIO USA			
				USED ON									
PRINTS TO				RAWSTOCK				PBD 41315 ^A Page 3 of 7					
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3M SCOTCH TAPE USED FOR INSULATION OF STRAIGHT BUS AND BUS JOINTS FOR 5kv AND 15kv SWITCHGEAR

NUMBERS ASSIGNED TO TAPE:

3/4" TAPE

1520-903241	#13	3/4" x 15 ft.
1520-610240	#22	3/4" x 36 yds.
1520-903242	#23	3/4" x 30 ft.
*1520-903243	#130C	3/4" x 30 ft.

1" TAPE

1520-610320	#22	1" x 36 yds.
*1520-903322	#23	1" x 30 ft.
*1520-903321	#130C	1" x 30 ft.

1-1/2" TAPE

1520-610480	#22	1-1/2" x 36 yds.
*1520-903482	#23	1-1/2" x 30 ft.
1520-912480		1-1/2" x 60" Scotchfil
*1520-903481	#130C	1-1/2" x 30 ft.

2" TAPE

1520-610640	#22	2" x 36 yds.
1520-903640	#23	2" x 30 ft.
*1520-903642	#130C	2" x 30 ft.

*NEW NUMBERS

REV.	C. R.	DATE	BY	DO NOT SCALE - WORK TO DIMENSIONS									
A	CR-PBD	3-3-77	ERG	STANDARD TOLERANCE UNLESS OTHERWISE SPECIFIED	LINEAL DIM.		TWO PLACE DECIMAL ± .020		THREE PLACE DECIMAL ± .005				
B	CR-PBD	11-18-77	DLA		HOLE DIA.		FRACTIONAL, LETTER, OR NUMBERED DRILL ± .004		THREE PLACE DECIMAL ± .002		- .002		
					ANGLE		DIMENSIONED ± 1°		UNDIMENSIONED 90° ± 2°				
				SCALE	DRAWN	CHKD.	DATE	C. R.	 SQUARE D COMPANY BARKELEW PLANT MIDDLETOWN, OHIO USA				
					KJC		4-30-75						
				TITLE									
PRINTS TO				USED ON				PBD 41315 Pg. 4 of 7					
RAWSTOCK													

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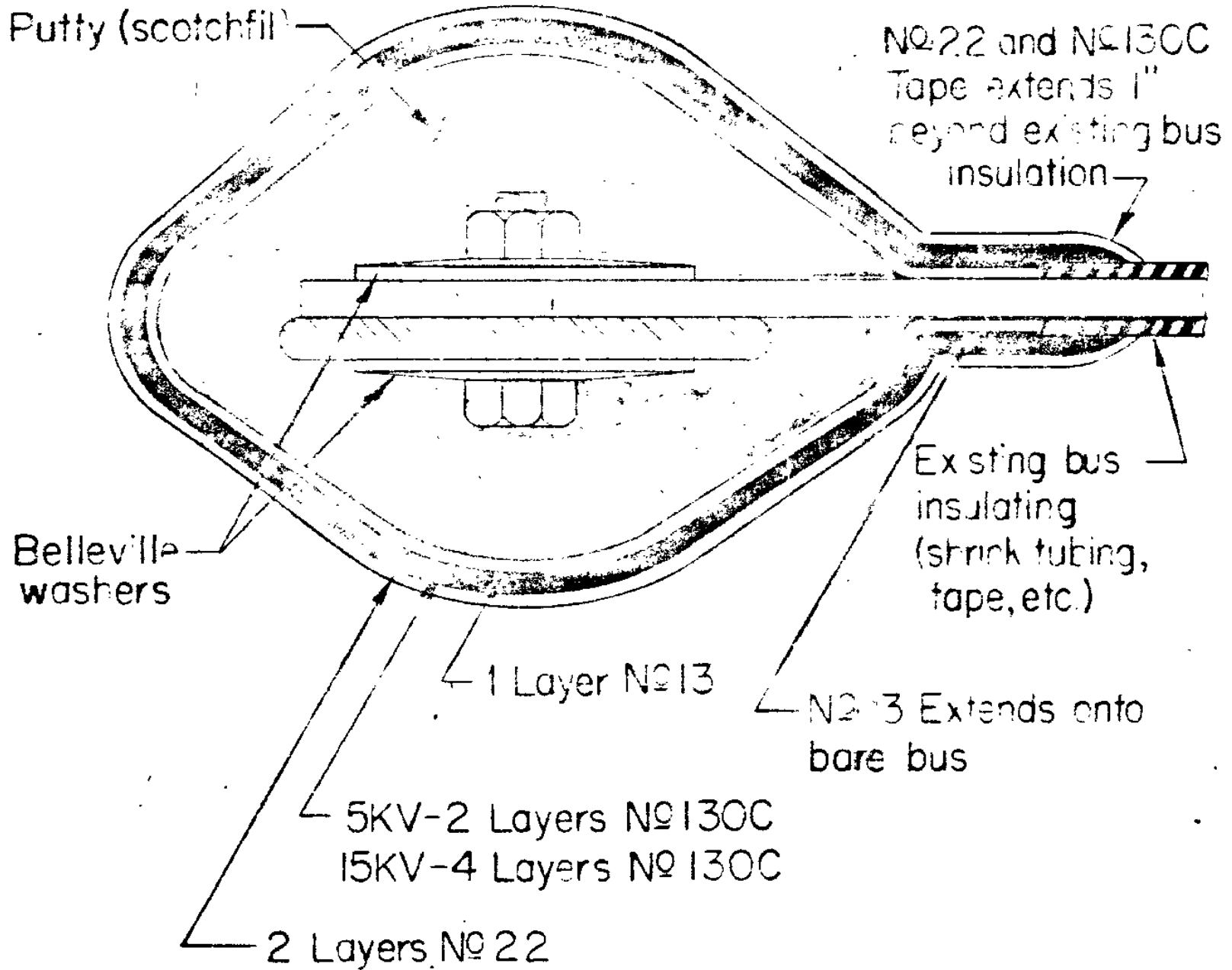
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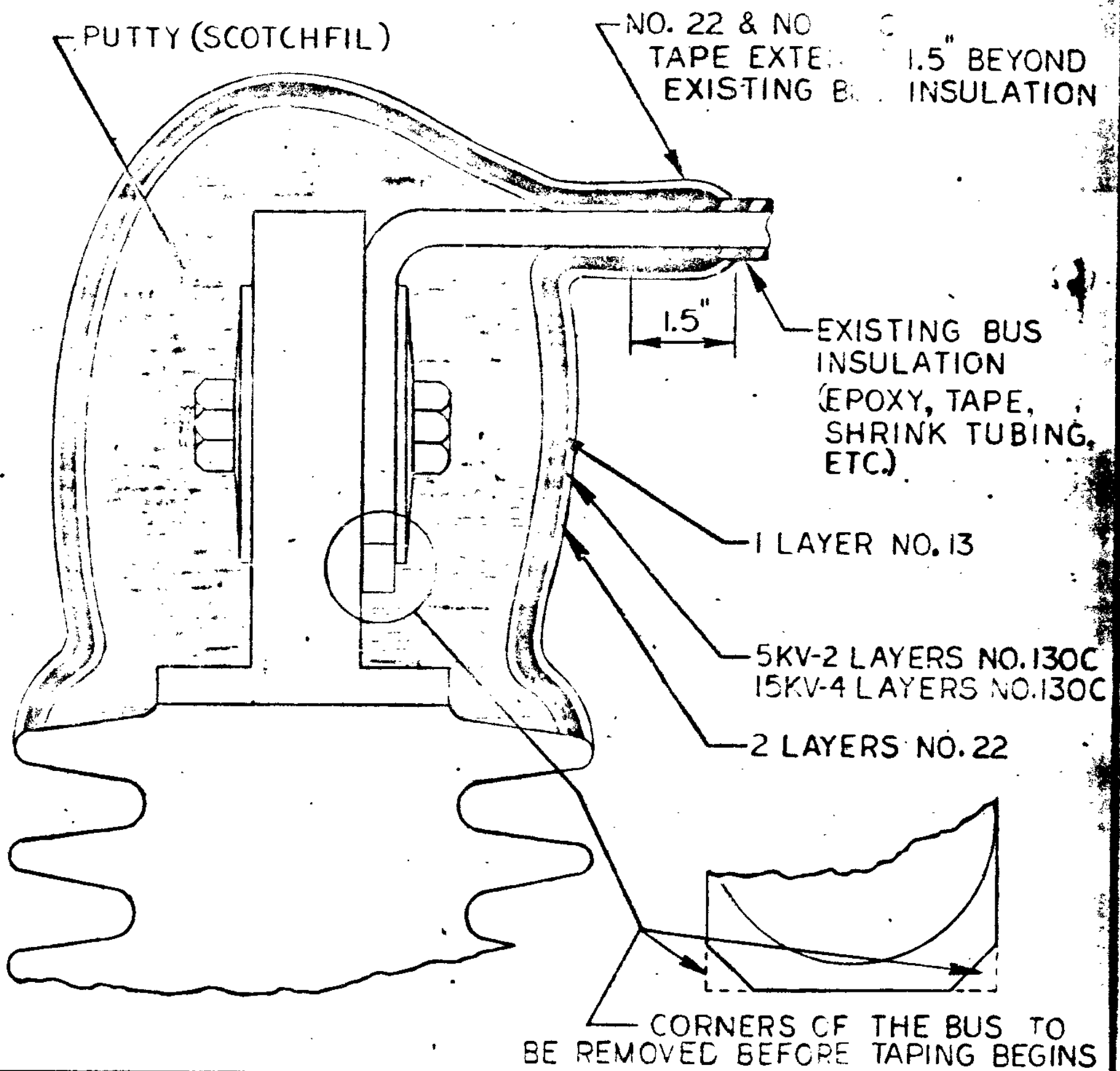
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REV.	C R	DATE	BY	DO NOT SCALE - WORK TO DIMENSIONS			
A	CR-PBD	3-3-77	ET				
				STANDARD TOLERANCE UNLESS OTHERWISE SPECIFIED	LINEAL DIM.	TWO PLACE DECIMAL ± .020 THREE PLACE DECIMAL ± .005	
					HOLE DIA.	FRACTIONAL LETTER OR NUMBERED DRILL + .004 THREE PLACE DECIMAL ± .002 - .002	
					ANGLE	DIMENSIONED ± 1° UNLESS OTHERWISE SPECIFIED	
SCALE				DRAWN	CHECKED	DATE	C R
				ET	KJC	4-30-75	
TIT				TAPING OF 90° BUS JOINT			
FRINTS TO				RAWSTOCK			
MEX				SOLARE COMPANY BARKLEY PLANT MCLEETOWN OHIO USA PBD 41315 (A)			



REV.	C. R.	DATE	BY	DO NOT SCALE - WORK TO DIMENSIONS			
A	CR-103	3-3-77	SPB				
				STANDARD TOLERANCE UNLESS OTHERWISE SPECIFIED	LINEAL DIM.	TWO PLACE DECIMAL $\pm .020$ THREE PLACE DECIMAL $\pm .008$	
					HOLE DIA.	FRACTIONAL LETTER OR NUMBERED DRILL $\pm .004$ THREE PLACE DECIMAL $\pm .002$ $- .008$	
					ANGLE	DIMENSIONED $\pm 1^\circ$ UNDIMENSIONED $90^\circ \pm 2^\circ$	
				SCALE	DRAWN	CHKD	DATE
						KJC	4-30-75
				TITLE TAPING OF C.T. BUSHING			
				USED ON			
				RAWSTOCK			
PRINTS TO				SQUIRE COMPANY BARKELEW PLANT MIDDLETOWN OHIO USA			
PBD 41315 (A)				PAGE 6 OF 7			

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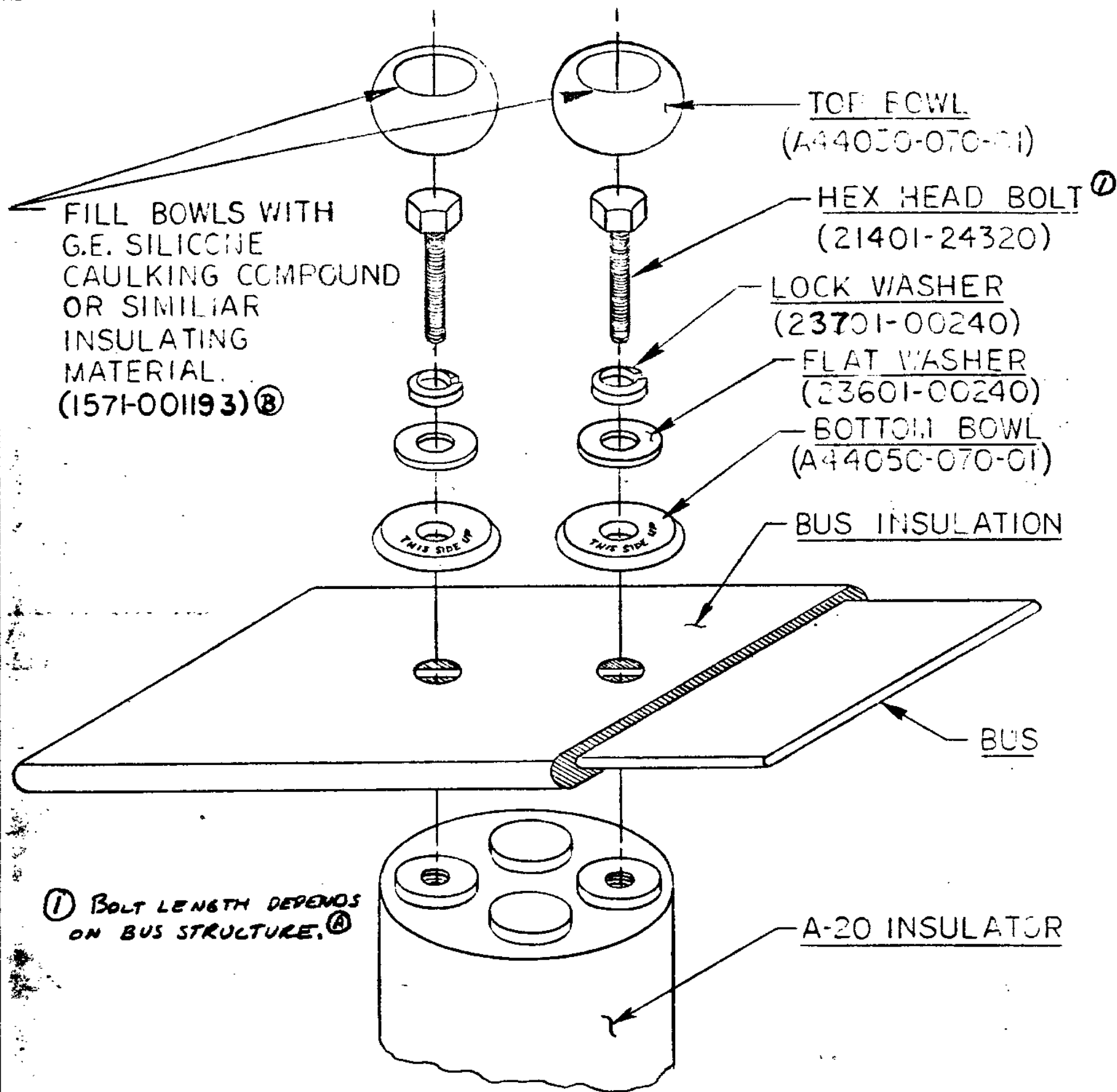
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REV.	C.R.	DATE	BY	DO NOT SCALE - WORK TO DIMENSIONS			
A	CR-80	3-3-77	SPB	STANDARD TOLERANCE UNLESS OTHERWISE SPECIFIED	LINEAL DIM.	TWO PLACE DECIMAL $\pm .020$	
B	CR-80	10-27-77	DM			THREE PLACE DECIMAL $\pm .008$	
C	CR-80	5-22-78	MAJ		HOLE DIA.	FRACTIONAL, LETTER, OR NUMBERED DRILL $\pm .004$	
					THREE PLACE DECIMAL $\pm .008$		
				ANGLE	DIMENSIONED $\pm 1^\circ$	UNDIMENSIONED $90^\circ \pm 2^\circ$	
SCALE				DRAWN	CHKD.	DATE	C.R.
					KJC	4-25-75	
TITLE				BOLT COVER ASSY			
USED ON							
PRINTS TO							
RAWSTOCK							
				SQUARE D COMPANY BARKELEW PLANT MIDDLETOWN, OHIO USA			
				PBD 41315 ① PAGE 7 OF 7			

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DO NOT SCALE - WORK TO DIMENSIONS REV C R DATE BY															
STANDARD TOLERANCE UNLESS OTHERWISE SPECIFIED HOLE FRACTIONAL LETTER GRINDING DRILL - .004 DIA THREE PLACE DECIMAL - .002 ANODE DIMENSIONED .01" UNLESS OTHERWISE SPECIFIED															
CURRENT CARRYING BUS CONFIGURATIONS BOLT REQD WHEN USING 1/4" BUS LAMINATIONS BOLT PART NUMBER BOLT REQD WHEN USING 3/8" BUS LAMINATIONS BOLT PART NUMBER BELLEVILLE WASHER PART NO															
C.T. BUSHING 1/2" - 13 x 1 1/4" GRADE 5 21401-26404 23903-33202															
BUS SUPPORT 1/2" - 13 x 1 1/2" GRADE 5 21401-26463 23903-33202															
BUS SUPPORT 1/2" - 13 x 1 3/4" GRADE 5 21401-26561 23903-33202															
C.T. BUSHING 1/2" - 13 x 2" GRADE 5 21401-26643 23903-33202															
BUS SUPPORT 1/2" - 13 x 2 1/4" GRADE 5 21401-26701 23903-33202															
C.T. BUSHING 1/2" - 13 x 2 1/2" GRADE 5 21401-26742 23903-33202															
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BUS SUPPORT 1/2" - 13 x 2 3/4" GRADE 5 21401-26742 23903-33202															

BATTERY REQUIREMENTS FOR DSE
CIRCUIT BREAKERS WITH DC CONTROL

COMPONENT CHARACTERISTICS

DC CONTROL VOLTAGE	CHARGING MOTOR		CLOSING SOLENOID		TRIPPING SOLENOID	
	CURRENT	TIME	CURRENT	TIME	CURRENT	TIME
24 VOLTS	6.25 A	8 SEC	2.9 A	.08 SEC	2.9 A	.08 SEC.
48 VOLTS	3.13 A	8 SEC	1.45 A	.08 SEC	1.45 A	.08 SEC.
125 VOLTS	1.2 A	8 SEC	.56 A	.08 SEC	.56 A	.08 SEC.
250 VOLTS	0.6 A	8 SEC	.28 A	.08 SEC	.28 A	.08 SEC.

CURRENTS AND TIMES LISTED ARE MAXIMUMS. VALUES WILL NORMALLY BE LESS.

"AMP-MINUTE" DRAIN FOR ONE DSE BREAKER CYCLE

DC CONTROL VOLTAGE	DRAIN (AMP-MIN)
24 VOLTS	.83
48 VOLTS	.42
125 VOLTS	.16
250 VOLTS	.08

NOTE: ONE DSE BREAKER CYCLE INCLUDES
THE FOLLOWING FUNCTIONS:

CHARGING THE OPERATING MECH-
ANISM, CLOSING THE BREAKER,
AND OPENING THE BREAKER.

CURRENT AND DRAIN VALUES LISTED ABOVE ARE FOR OPERATION AT 75°F. FOR OPERATION
AT -30°F, MULTIPLY TABLE VALUES BY 3.

REV.	C. R.	DATE	BY	DO NOT SCALE — WORK TO DIMENSIONS				
				STANDARD TOLERANCE UNLESS OTHERWISE SPECIFIED	LINEAL DIM.	TWO PLACE DECIMAL ± .020 THREE PLACE DECIMAL ± .005		
					HOLE DIA.	FRACTIONAL, LETTER, OR NUMBERED DRILL + .004 THREE PLACE DECIMAL ± .002 — .002		
					ANGLE	DIMENSIONED ± 1° UNDIMENSIONED 90° ± 2°		
				SCALE	DRAWN RDR	CHKD.	DATE 5-23-75	C. R.
				TITLE DSE BATTERY REQUIREMENTS				 SQUARE D COMPANY BARKELEW PLANT MIDDLETOWN, OHIO USA
				USED ON				
				RAWSTOCK				
PRINTS TO								
1				PBD- 41501				

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NOTES: NC FEMA 3 BLDGS:

1. The building base is a welded frame made from 8" high structural steel channels (18.75 lb/foot) and formed 7 ga. steel channels. Primary load bearing members are 8" structural steel. Base design limits the deflection of the longest base during lifting to 1/16 inch maximum. Aisle floors are 7 ga. hot roll steel.
2. Exterior walls and roof are formed from 11 ga. Galvaneal steel sheet. Walls and roof are designed to support a dead load of 3 ft. of wet snow (30 lbs/ft³ density). Roof seams are capped. Vertical wall seams are caulked with silicon rubber - Dow Corning Type 731 - formulated for exterior use. Exterior surfaces of building have two coats of ASA49 gray paint, interior surfaces one coat of ASA49 paint.
3. Buildings are shipped as a single shipping section if they do not contain NC NEMA 1 lineups exceeding:

3 bays - 5kV
2 bays - 15kV

The building is split lengthwise for lineups exceeding the above. A maximum of 10 bays, 34V or 7 bays, 154V can be shipped as a single shipping section. The MC equipment portion is shipped separately from the aisle portion of the building. The MC NEMA 1 equipment is shipped completely assembled, including main bus.

Each shipping section can be moved into place with a crane without interfering with other shipping sections.

4. Buildings are fan ventilated as standard. A 12" dia. fan - 740 CFM free air - is standard for buildings up to and including 10 bays. A 18" dia. fan - 1500 CFM free air - is standard for buildings from 11 thru 20 bays. Fans are thermostatically controlled.
5. 40 watt fluorescent lights are supplied every 3 bays or closer. Three-way light switches are mounted at door on buildings exceeding 5 bays.
6. 120 volt outlets are supplied 1 per every 3 bays on the aisle exterior wall.
7. Two commercial steel doors equipped with crash bars, thumb latch and lock set are supplied as standard on aisle portion of building. Commercial door stop is available as option at additional cost. Door keys identical.

REV	C.R.	DATE	BY	DO NOT SCALE - WORK TO DIMENSIONS			
1		11-1-77	1	STANDARD TOLERANCE UNLESS OTHERWISE SPECIFIED	LINEAL DIM	TWO PLACE DECIMAL THREE PLACE DECIMAL	$\pm .020$ $\pm .009$
2		11-1-77	1		HOLE DIA	FRACTIONAL LETTER, OR PIERCED DRILL	$\pm .004$ $\pm .002$ - .001
3		11-1-77	1		ANGLE	DIMENSIONED	$\pm .005$ - .001
4		11-1-77	1				
5		11-1-77	1				
6		11-1-77	1				
7		11-1-77	1				
8		11-1-77	1				
9		11-1-77	1				
10		11-1-77	1				
11		11-1-77	1				
12		11-1-77	1				
13		11-1-77	1				
14		11-1-77	1				
15		11-1-77	1				
16		11-1-77	1				
17		11-1-77	1				
18		11-1-77	1				
19		11-1-77	1				
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66		11-1-77	1</				

NOTES: MC NEPA 3 BLDGS (CONT'D)

8. Hinged coverplates are standard at rear of each MC equipment bay. Plates are held by tamperproof hardware. Tamperproof wrench is supplied with the building. Hinged coverplates can be equipped with 3 point latches per customer option and additional cost.
9. As standard, buildings are equipped with strip heaters in each MC equip bay to prevent condensation. Each bay has 3 strip heaters installed for a total wattage of 500 watts. The strip heaters in each cell are controlled by a thermostat in that cell. Electric space heaters for heating the aisle portion of the building are available on customer option at additional cost.

REV.	CH	DATE	BY
1		12-15-77	DL
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DO NOT SCALE - WORK TO DIMENSIONS

STANDARD TOLERANCE UNLESS OTHERWISE SPECIFIED	LINEAL DIM.	TWO PLACE DECIMAL $\pm .005$ THREE PLACE DECIMAL $\pm .002$
	HOLE D.A.	FRAC. ONLY, LETTER, OR NUMBERED DRILL $\pm .004$ THREE PLACE DECIMAL $\pm .002$
	ANGLE	DIMENSIONED $\pm .1^\circ$ DIMENSIONED $90^\circ \pm .5^\circ$

DATE OF DRAWING: 12-15-77

BY: DL

CHECKED BY: []

APPROVED BY: []

USED ON: []

REWORK: []

ENGINEERED BY: []

ENGINEER: []

PROJECT: []

LOCATION: []

PRINTS TO:

1	2	3	4	5	6	7	8	9	10
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PBD-41550

Pg 2 OF 13

A

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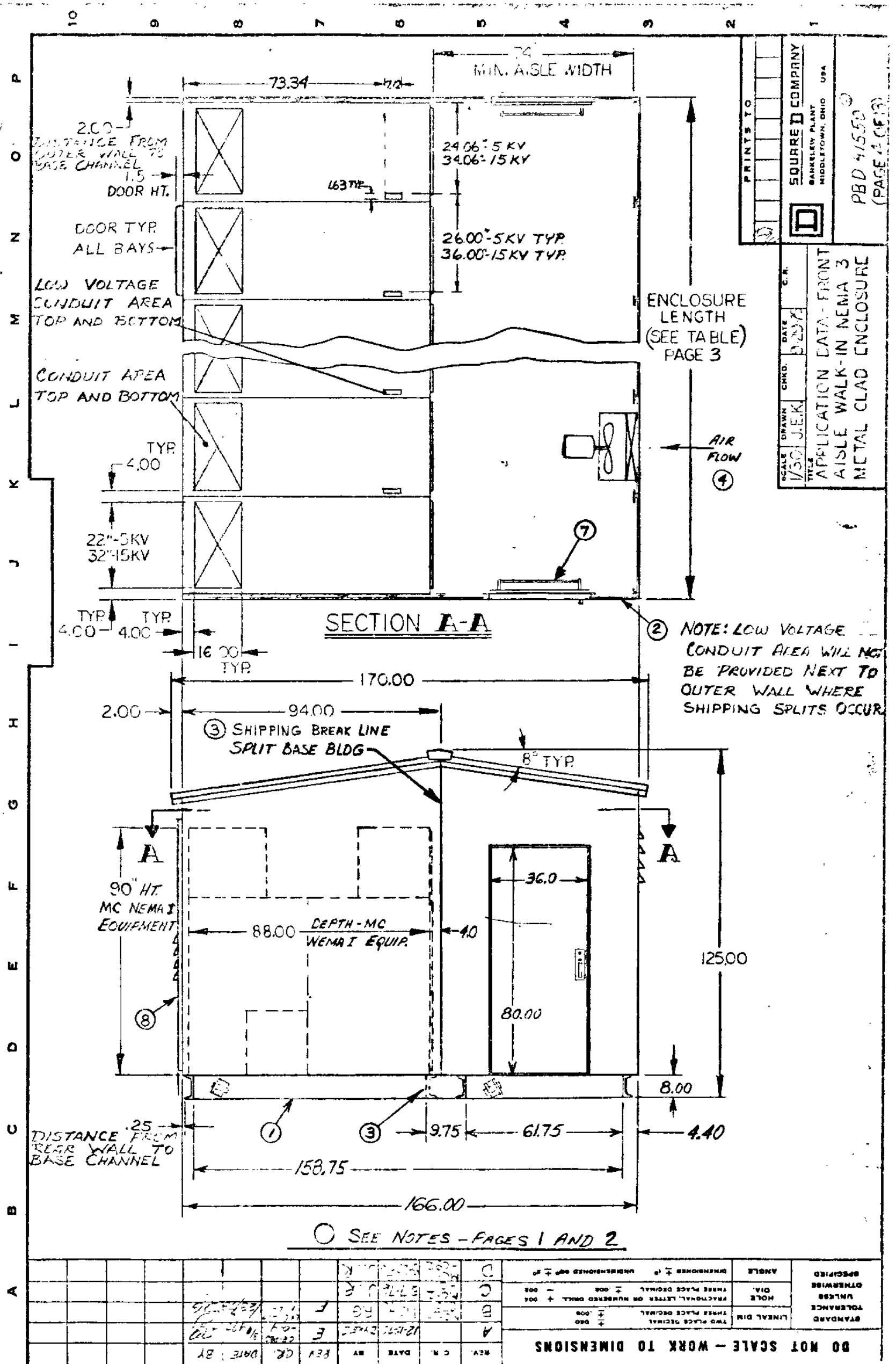
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F

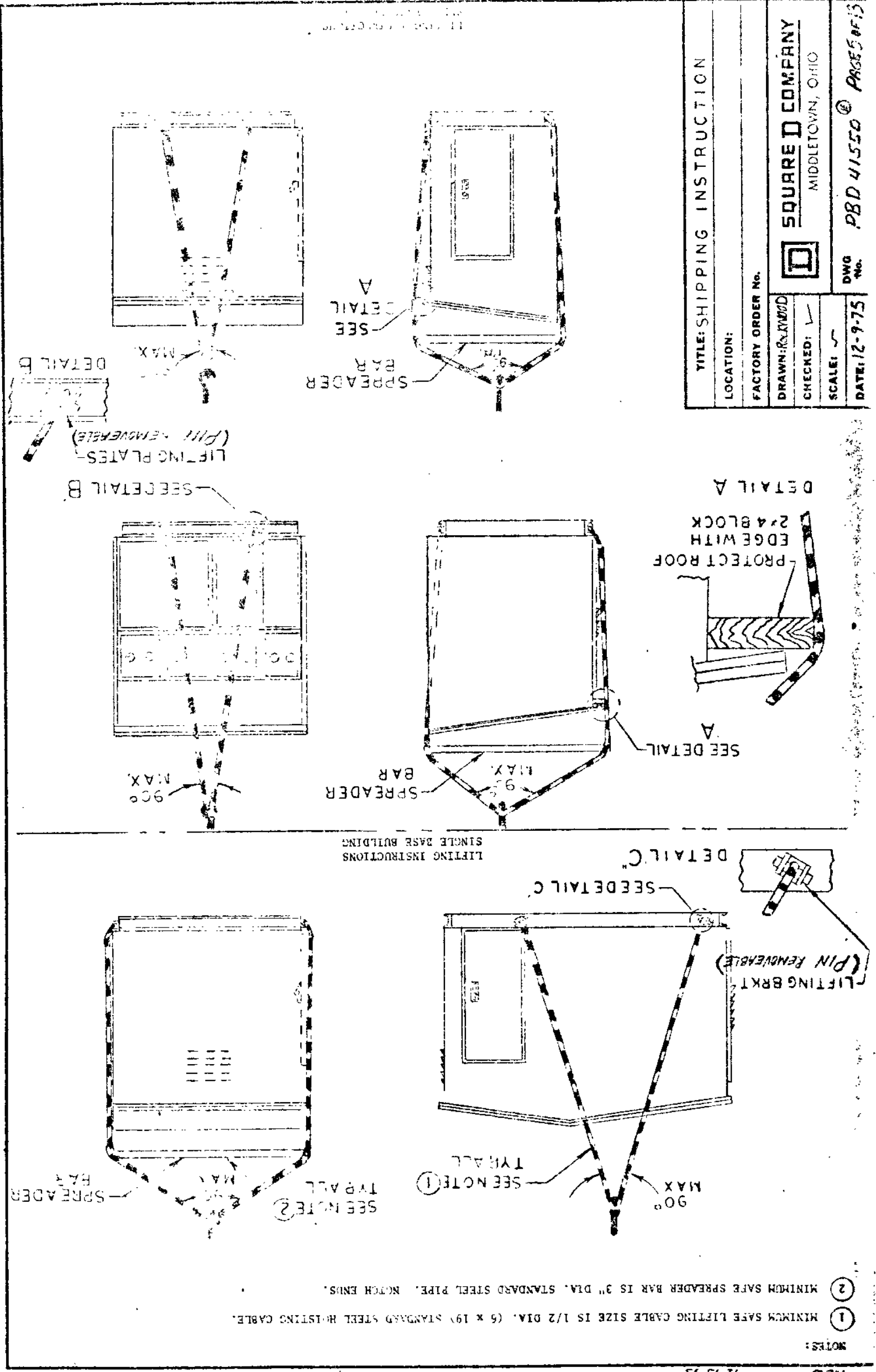
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SWITCHGEAR DESCRIPTION		ENCLOSURE DATA			ENCLOSURE LENGTH (INCHES)
VOLTAGE	NUMBER OF BAYS	ENCLOSURE DESIGN	SHIPPING SECTIONS	WEIGHT OF SHIPPING SECTIONS* (LB.)	
5KV	1 TO 3	SINGLE BASE	1	1450 + (2400 X NUMBER OF BAYS)	4 + (26 X NUMBER OF BAYS)
	4 TO 9 ^(E)	BASE IS SPLIT LENGTHWISE, EQUIPMENT SECTION AND AISLE SECTION SHIP SEPAR- ATELY.	2	EQUIPMENT SECTION = 750 + (2000 X NUMBER OF BAYS) AISLE SECTION = 700 + (525 X NUMBER OF BAYS)	
	10 OR MORE	BASE IS SPLIT LENGTHWISE, SEPARATING EQUIPMENT SECTIONS FROM AISLE SEC- TIONS. EQUIPMENT SECTIONS AND AISLE SECTIONS ARE ALSO SPLIT EVERY 90 BAYS MAXIMUM.	DIVIDE THE NUMBER OF BAYS BY 9, ROUND UP TO THE NEAREST WHOLE NUMBER AND MULTIPLY THAT NUMBER BY 2.	EACH END EQUIPMENT SECTION = 375 + (2000 X NUMBER OF BAYS IN THAT SECTION). EACH MIDDLE EQUIPMENT SEC- TION = 2000 X NUMBER OF BAYS IN THAT SECTION. EACH END AISLE SECTION = 350 + (525 X NUMBER OF BAYS IN THAT SEC- TION). EACH MIDDLE AISLE SECTION = 525 X NUMBER OF BAYS IN THAT SECTION.	
15KV	1 TO 2	SINGLE BASE	1	1450 + (2775 X NUMBER OF BAYS)	4 + (36 X NUMBER OF BAYS)
	3 TO 7	BASE IS SPLIT LENGTHWISE, EQUIPMENT SECTION AND AISLE SECTION SHIP SEPAR- ATELY.	2	EQUIPMENT SECTION = 750 + (2250 X NUMBER OF BAYS) AISLE SECTION = 700 + (625 X NUMBER OF BAYS)	
	8 OR MORE	BASE IS SPLIT LENGTHWISE, SEPARATING EQUIPMENT SECTIONS FROM AISLE SEC- TIONS. EQUIPMENT SECTIONS AND AISLE SECTIONS ARE ALSO SPLIT EVERY 7 BAYS MAXIMUM.	DIVIDE THE NUMBER OF BAYS BY 7, ROUND UP TO THE NEAREST WHOLE NUMBER AND MULTIPLY THAT NUMBER BY 2.	EACH END EQUIPMENT SECTION = 375 + (2250 X NUMBER OF BAYS IN THAT SECTION). EACH MIDDLE EQUIPMENT SEC- TION = 2250 X NUMBER OF BAYS IN THAT SECTION. EACH END AISLE SECTION = 350 + (525 X NUMBER OF BAYS IN THAT SEC- TION). EACH MIDDLE AISLE SECTION = 625 X NUMBER OF BAYS IN THAT SECTION.	

*INCLUDES WEIGHT OF SWITCHGEAR BUT DOES NOT INCLUDE WEIGHT OF BREAKERS.



SCOTT TOL H&A 11-10



12-15-75

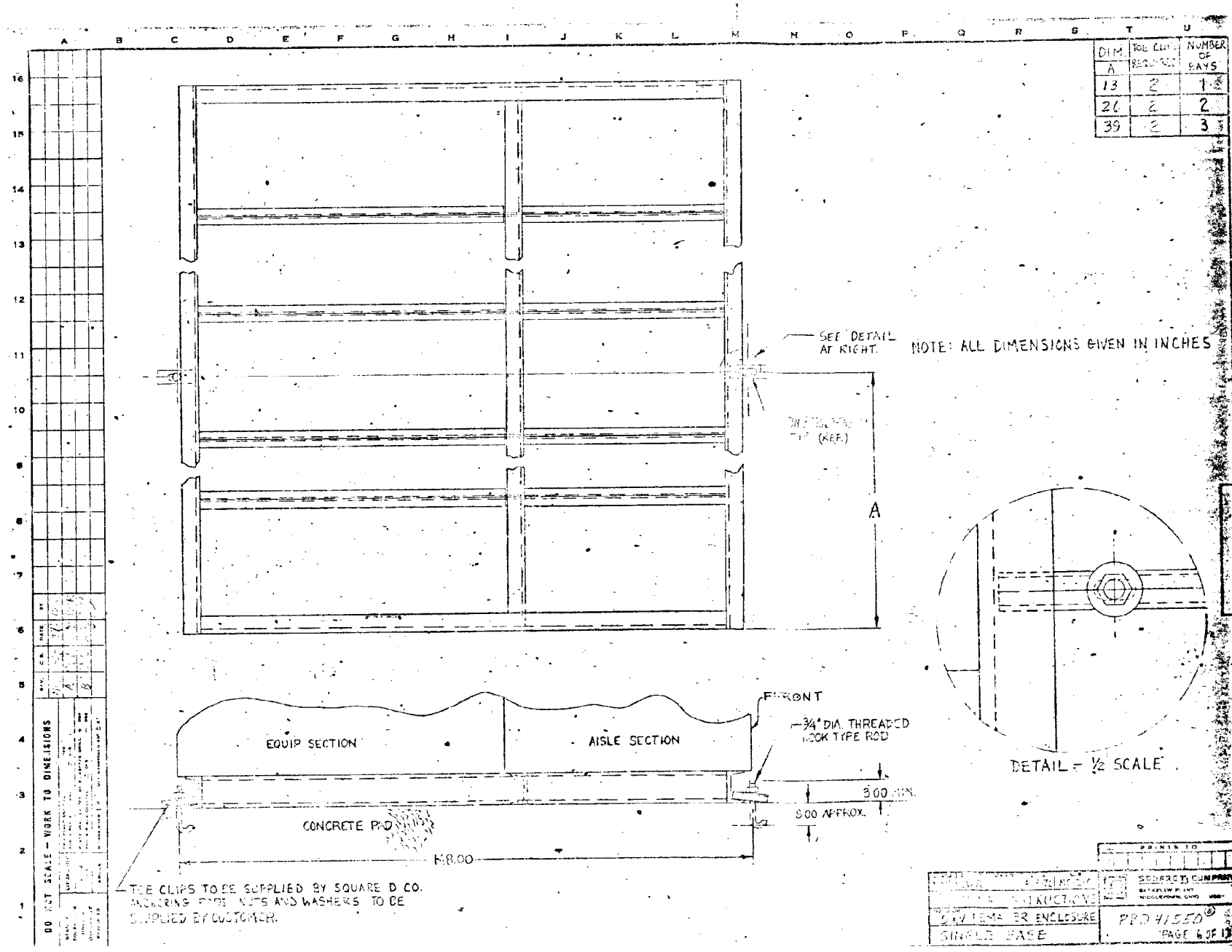
NOTES:

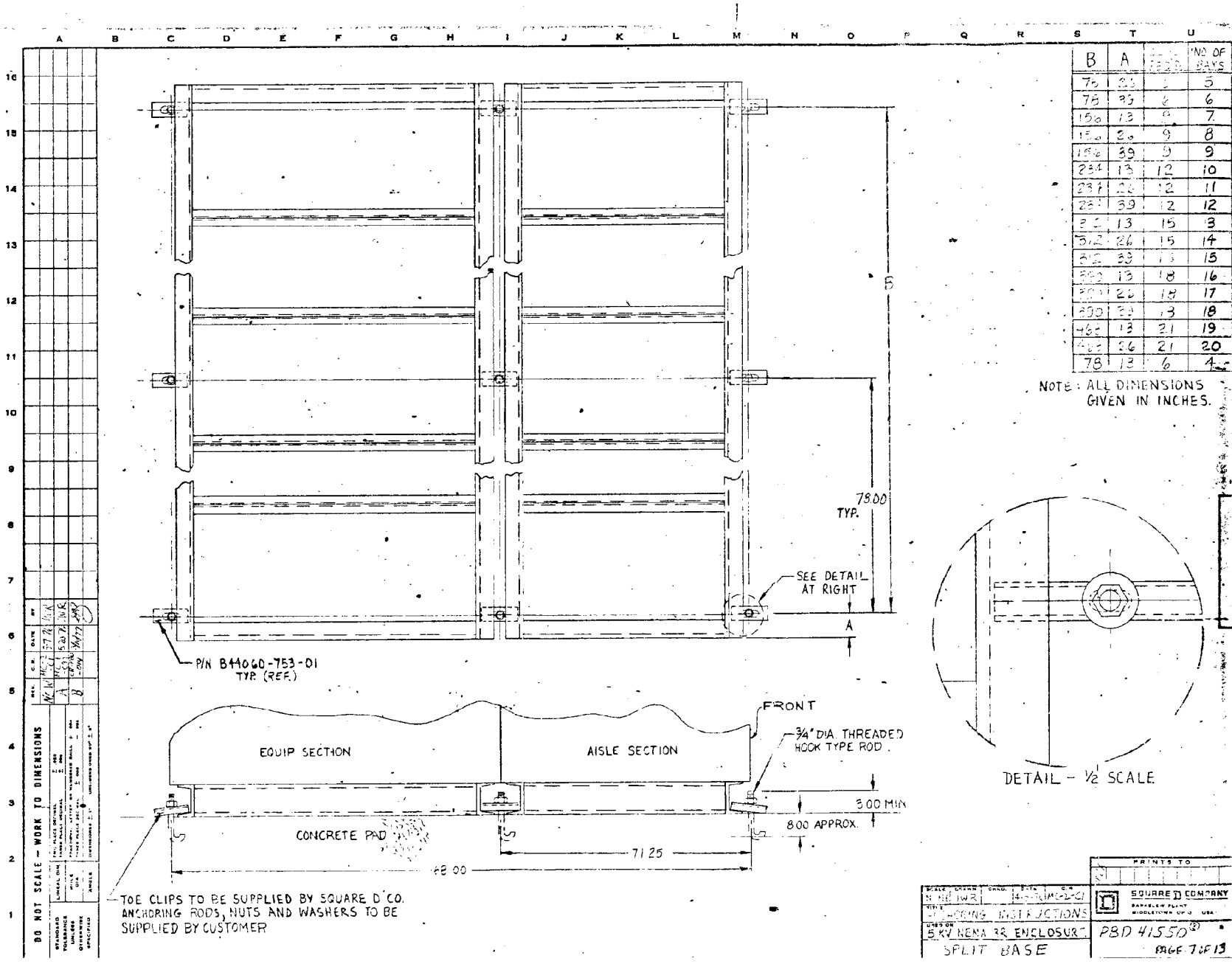
1

MINIMUM SAFE LIFTING CABLE SIZE IS 1/2 DIA. (6 X 19) STANDARD STEEL HOISTING CABLE.

2

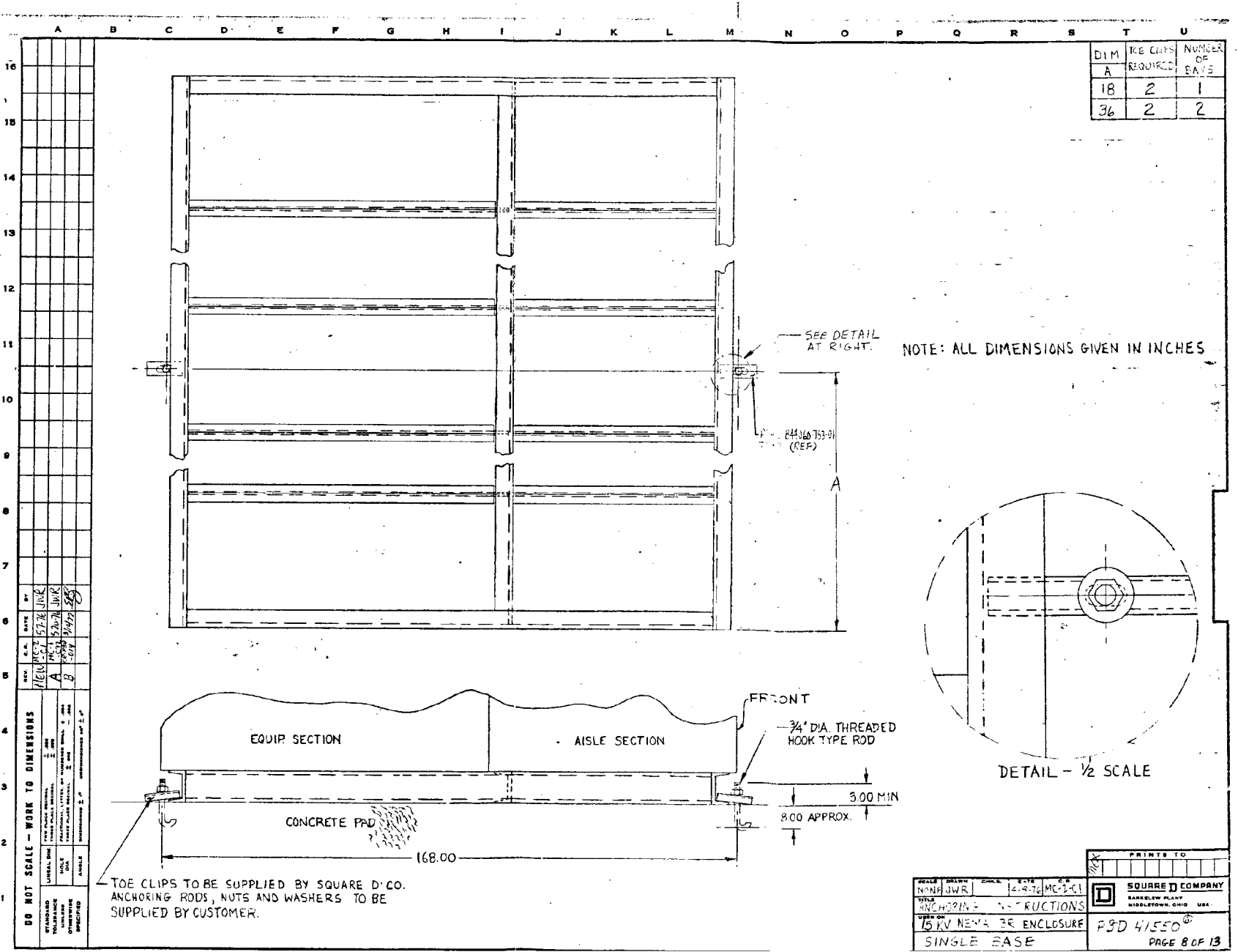
MINIMUM SAFE SPREADER BAR IS 3" DIA. STANDARD STEEL PIPE. NOTCH ENDS.

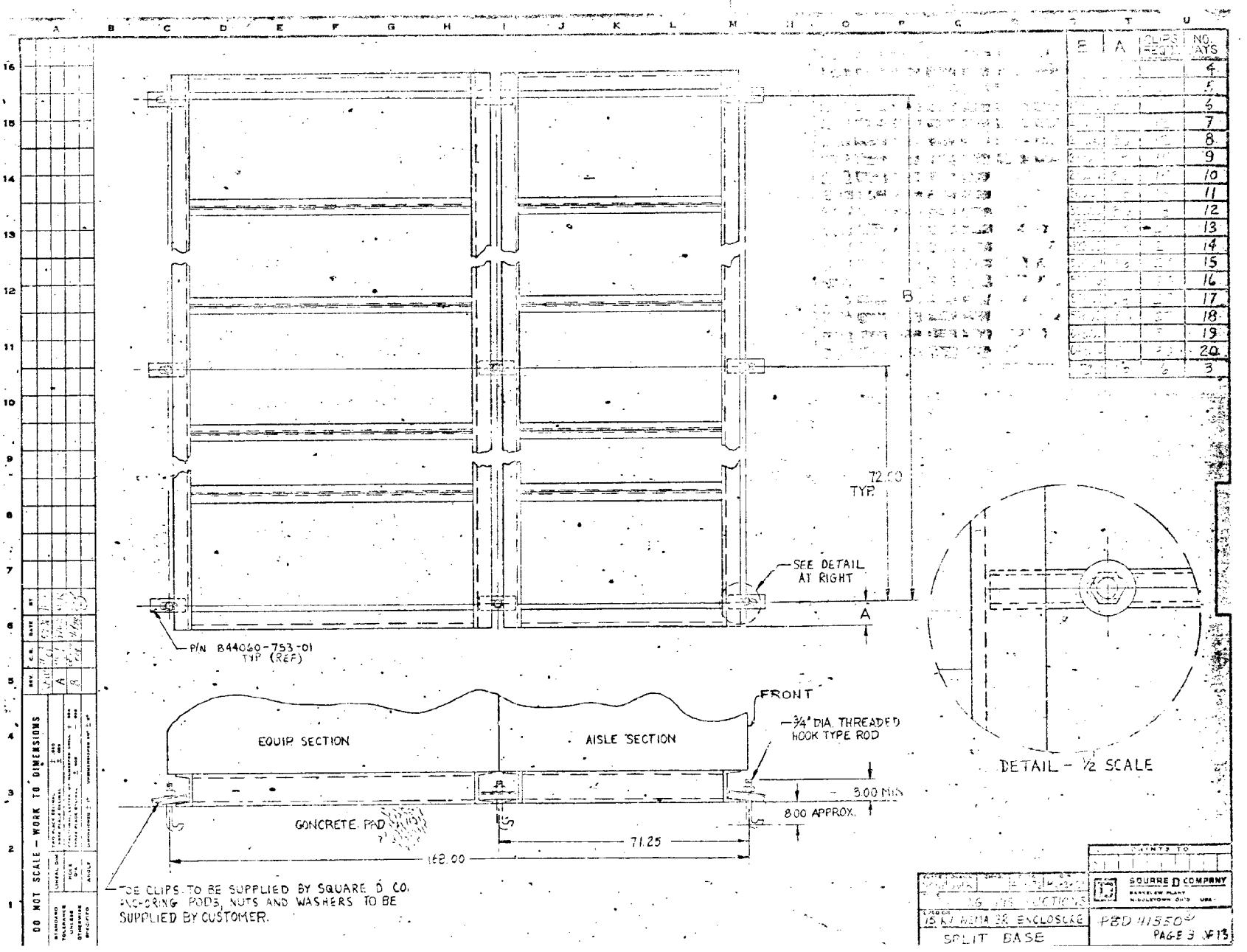


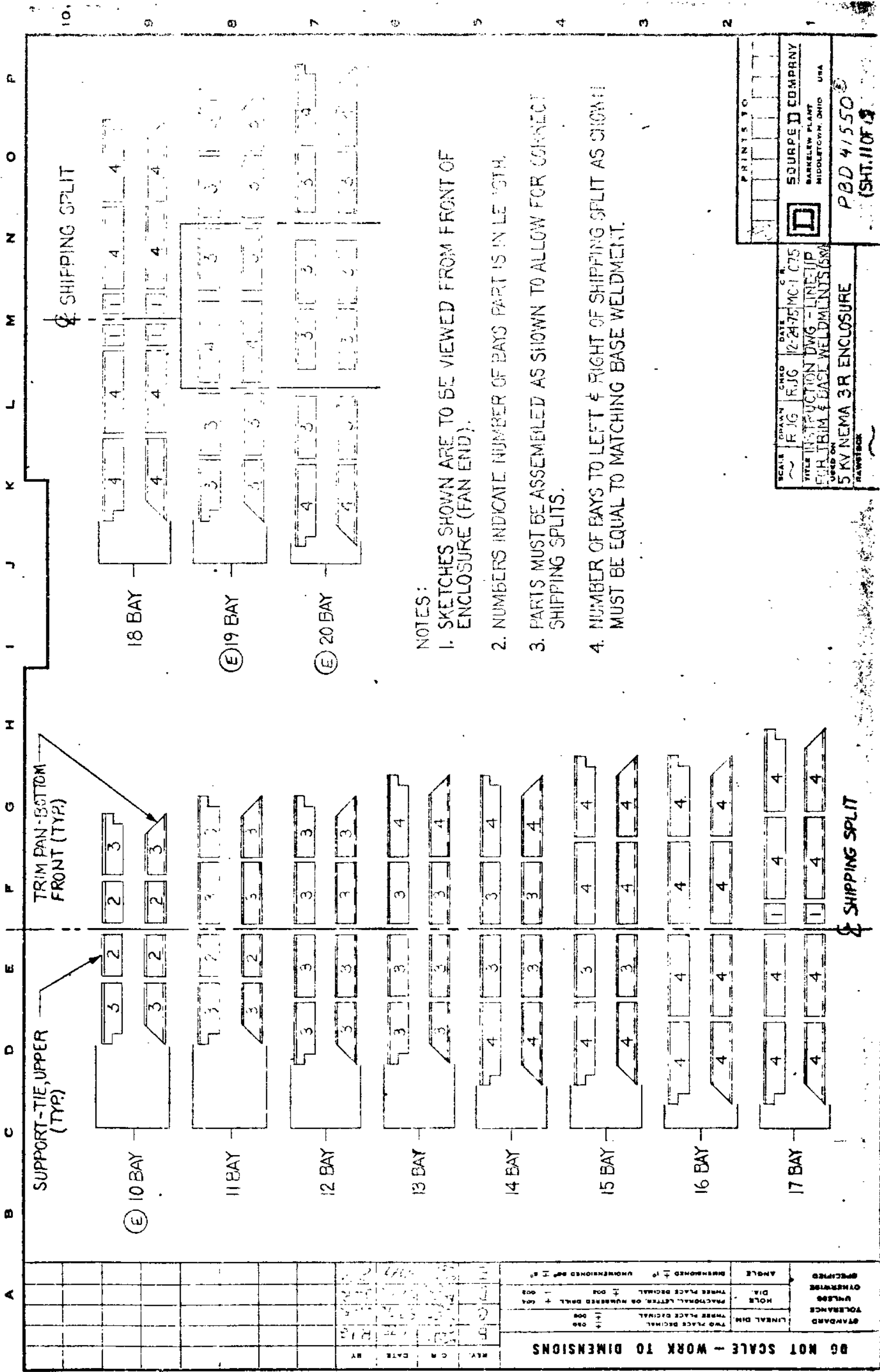


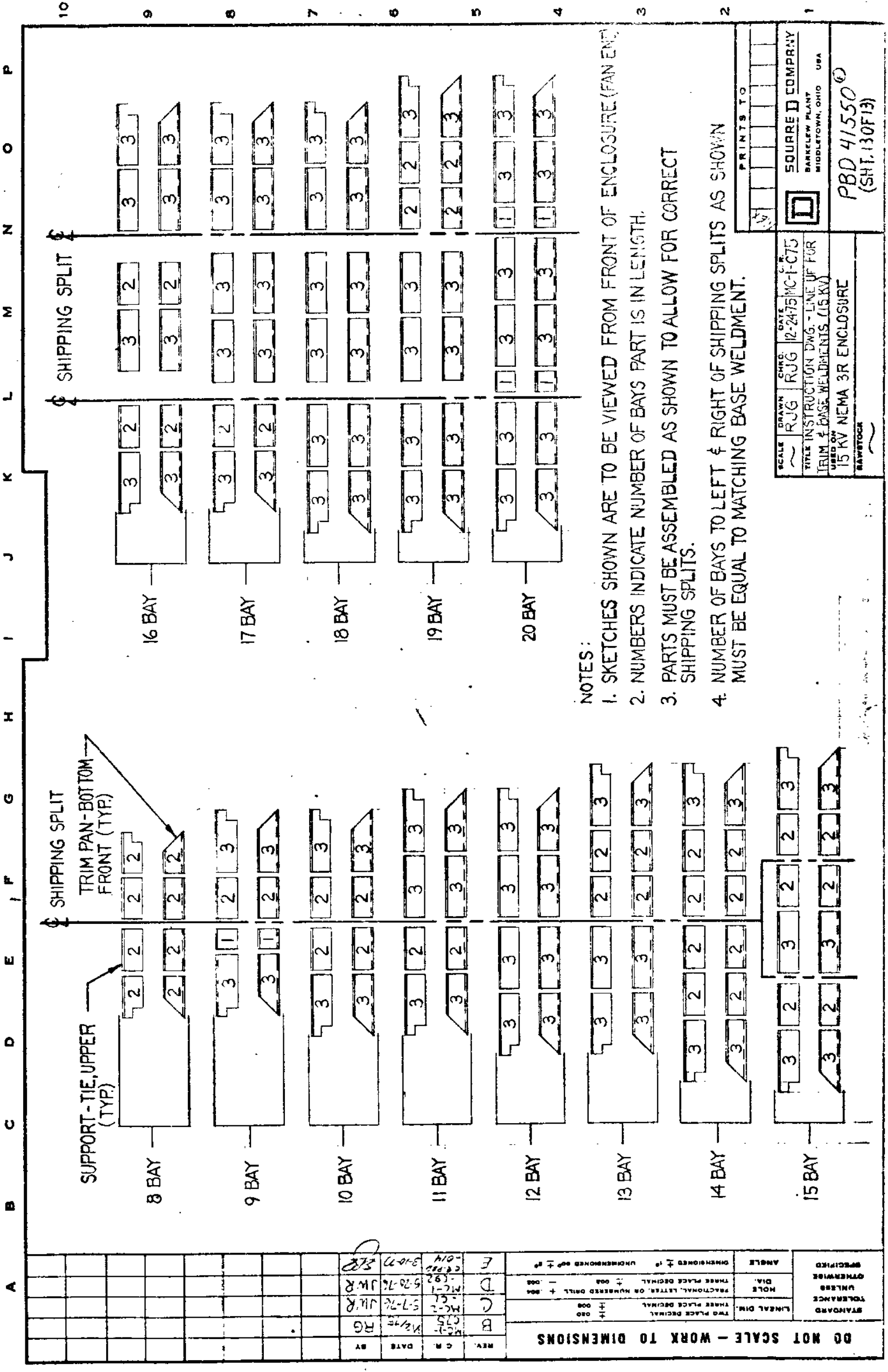
B	A	FEED	NO OF DAYS
75	33	2	5
78	33	2	6
150	13	2	7
150	20	9	8
150	33	9	9
234	13	12	10
234	20	12	11
234	33	12	12
300	13	15	13
300	20	15	14
300	33	15	15
300	13	18	16
300	20	18	17
300	33	18	18
400	13	21	19
400	20	21	20
78	13	6	4

NOTE: ALL DIMENSIONS GIVEN IN INCHES.









- NOTES:
1. SKETCHES SHOWN ARE TO BE VIEWED FROM FRONT OF ENCLOSURE (FAN END)
 2. NUMBERS INDICATE NUMBER OF BAYS PART IS IN LENGTH.
 3. PARTS MUST BE ASSEMBLED AS SHOWN TO ALLOW FOR CORRECT SHIPPING SPLITS.
 4. NUMBER OF BAYS TO LEFT & RIGHT OF SHIPPING SPLITS AS SHOWN MUST BE EQUAL TO MATCHING BASE WELDMENT.

SCALE	DRAWN	CHKD	DATE	DATE
1"=1'-0"	RJG	RJG	12-24-75	MC-1-C75
TITLE INSTRUCTION DWG. - LINE UP FOR TRIM & BASE WELDMENTS (15 KV)				
USED ON 15 KV NEMA 3R ENCLOSURE				
RAWSTOCK				
SOURCE D COMPANY BARKELEY PLANT MIDDLETOWN, OHIO USA				
PBD 41550 (SHT. 130F13)				

NOTES: MC NEMA 3R BUILDINGS:

- The building base is a welded frame made from 6" high structural steel channels (13.00 lb/foot) and formed 7 ga. steel channels. Primary load bearing members are 6" structural steel. Base design limits the deflection of the longest base during lifting to 1/16 inch maximum. Aisle floors are 7 ga. hot roll steel. Rust preventive undercoating is provided on the entire undersurface of the building.
- Exterior walls and roof are formed from 14 ga. Galvaneal steel sheet. Walls and roof are designed to support a dead load of 3 ft. of wet snow (30 lbs/ft³ density). Roof seams are capped. Vertical wall seams are calked with silicon rubber - Dow Corning (Type 732-AL11) - formulated for exterior use. Exterior surfaces of building have two coats of ASA 49 gray paint, interior surfaces one coat of ASA 49 paint.
- Buildings are shipped as a single shipping section if they do not contain MC NEMA 1 lineups exceeding:

3 bays - 5kV
2 bays - 15kV

The building is split lengthwise for lineups exceeding the above. A maximum of 9 bays, 5kV or 7 bays, 15kV can be shipped as a single shipping section. The MC equipment portion is shipped separately from the aisle portion of the building. The MC NEMA 1 equipment is shipped completely assembled, including main bus.

Each shipping section can be moved into place with a crane without interfering with other shipping sections.

- Buildings are fan ventilated. One 12" dia. fan - 740 CFM free air - is standard for buildings up to and including 10 bays. Two 12" dia. fans - 1480 CFM free air - is standard for buildings from 11 thru 20 bays. Fans are thermostatically controlled.
- Interior lighting is provided to supply sufficient illumination for normal equipment operation and maintenance. 1 bay buildings are supplied with incandescent lighting. Buildings 2 bays and larger are supplied with fluorescent. Three way light switches are mounted at doors on buildings exceeding 5 bays.
- 120 volt outlets are supplied 1 per every 3 bays on the aisle exterior wall.
- A commercial steel door equipped with crash bar, thumb latch and lockset is provided on each end of the aisle portion of all buildings. NOTE: The 2 bay 5kV building and the 1 bay 15kV building have only one door which is located on the front of the aisle portion. Door keys are identical when two doors are provided.

REV.	C. R.	DATE	BY	DO NOT SCALE - WORK TO DIMENSIONS									
				STANDARD TOLERANCE UNLESS OTHERWISE SPECIFIED	LINEAL DIM.	TWO PLACE DECIMAL $\pm .020$ THREE PLACE DECIMAL $\pm .005$							
					HOLE DIA.	FRACTIONAL, LETTER, OR NUMBERED DRILL $\pm .004$ THREE PLACE DECIMAL $\pm .002$ - .002							
					ANGLE	DIMENSIONED $\pm 10^\circ$ UNDIMENSIONED $60^\circ \pm 2^\circ$							
				SCALE	DRAWN	CHKD.	DATE	C. R.	 SQUARE D COMPANY BARKELEW PLANT MIDDLETOWN, OHIO USA				
				TITLE MC NEMA 3R WALK IN ENCLOS. C-14 USED ON									
PRINTS TO									PBD-41551 Pg. 1 of 13				
				RAWSTOCK									
				A	B	C	D	E	F	G			

NOTES: MC NEMA 3R BUILDINGS (CONT'D.)

Commercial door closers are available as an option at additional cost.

8. Hinged coverplates are standard at rear of each MC equipment bay. Plates are held by tamperproof hardware. Tamperproof wrench is supplied with the building. Hinged coverplates can be equipped with 3 point latches per customer option and additional cost.
9. As standard, buildings are equipped with strip heaters in each MC equip bay to prevent condensation. Each bay has 3 strip heaters installed for a total wattage of 375 watts. The strip heaters in each cell are controlled by a thermostat in that cell. Electric space heaters for heating the aisle portion of the building are available on customer option at additional cost.
10. Removable steel coverplates over conduit entrance areas are provided as standard.

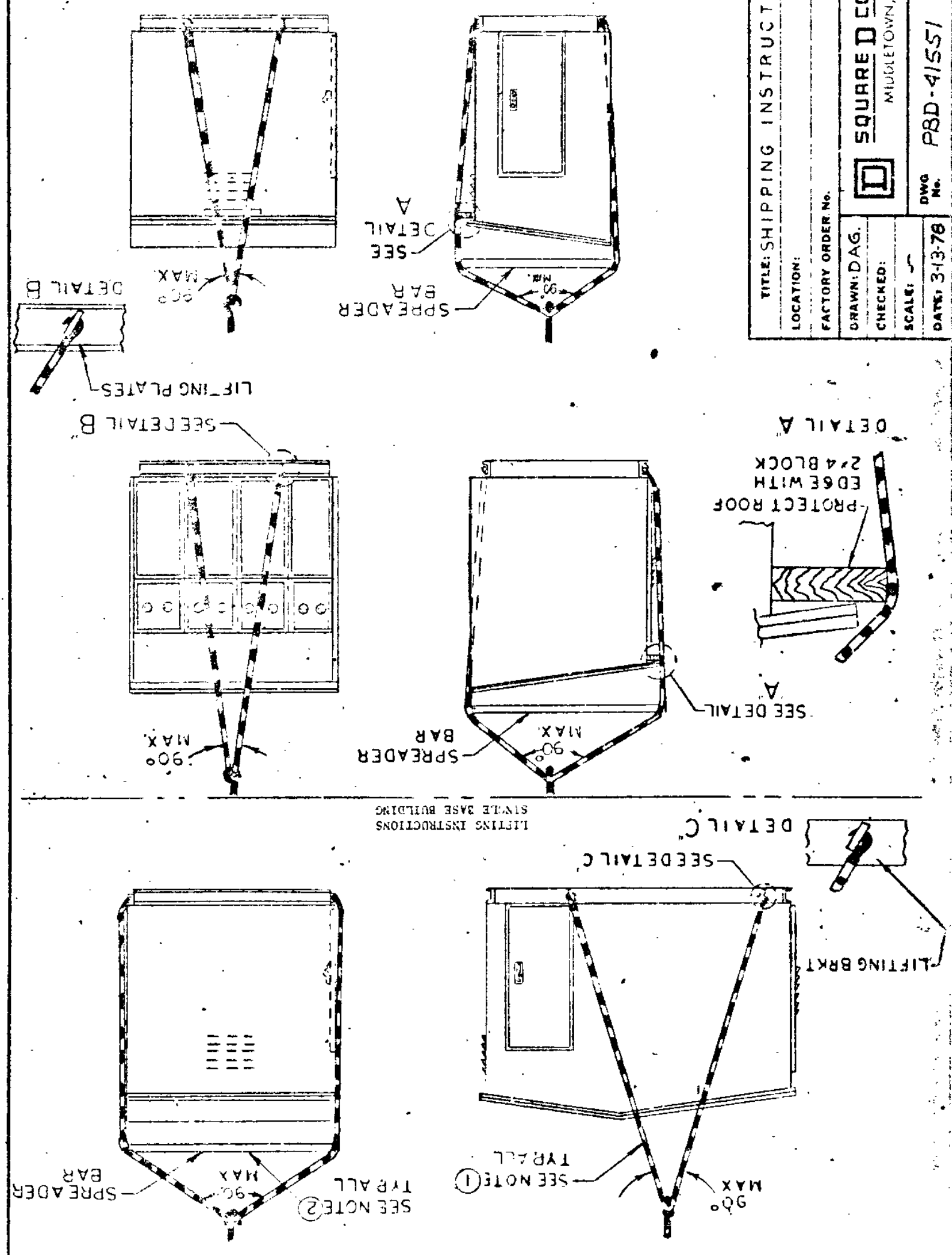
REV.	C. R.	DATE	BY	DO NOT SCALE - WORK TO DIMENSIONS							
				STANDARD TOLERANCE UNLESS OTHERWISE SPECIFIED	LINEAL DIM.	TWO PLACE DECIMAL THREE PLACE DECIMAL	+ .020 + .009				
					HOLE DIA.	FRACTIONAL, LETTER, OR NUMBERED DRILL THREE PLACE DECIMAL	+ .004 ± .002 - .003				
					ANGLE	DIMENSIONED ± 1° UNDIMENSIONED 80° ± 2°					
				SCALE	DRAWN	CHKD.	DATE	C. R.	 SQUARE D COMPANY DANKELEW PLANT MIDDLETOWN, OHIO U.S.A.		
				TITLE							
				NO. 10 MA OR WALK IN ENCLOS. G-11							
				USED ON					PBD-41551 Pg. 2 of 13		
				RAW STOCK							
PRINTS TO											
A	B	C	D	E	F	G					

VOLTAGE	NUMBER OF BAYS	ENCLOSURE DESIGN	SHIPPING SECTIONS	WEIGHT OF SHIPPING SECTIONS* (LB.)	ENCLOSURE LENGTH (INCHES)
5kV	1 TO 3	SINGLE BASE	1	1200 + (2200 X NUMBER OF BAYS)	4 + (26 X NUMBER OF BAYS)
	4 TO 9	BASE IS SPLIT LENGTHWISE, EQUIPMENT SECTION AND AISLE SECTION SHIP SEPARATELY.	2	EQUIPMENT SECTION = 570 + (1850 X NUMBER OF BAYS) AISLE SECTION = 630 + (475 X NUMBER OF BAYS)	
	10 OR MORE	BASE IS SPLIT LENGTHWISE, SEPARATING EQUIPMENT SECTIONS FROM AISLE SECTIONS. EQUIPMENT SECTIONS AND AISLE SECTIONS ARE ALSO SPLIT EVERY 9 BAYS MAXIMUM.	DIVIDE THE NUMBER OF BAYS BY 9, ROUND UP TO THE NEAREST WHOLE NUMBER AND MULTIPLY THAT NUMBER BY 2.	EACH END EQUIPMENT SECTION = 285 + (1850 X NUMBER OF BAYS IN THAT SECTION). EACH MIDDLE EQUIPMENT SECTION = 1850 X NUMBER OF BAYS IN THAT SECTION. EACH END AISLE SECTION = 315 + (475 X NUMBER OF BAYS IN THAT SECTION). EACH MIDDLE AISLE SECTION = 475 X NUMBER OF BAYS IN THAT SECTION.	
15kV	1 TO 2	SINGLE BASE	1	1200 + (2475 X NUMBER OF BAYS)	4 + (36 X NUMBER OF BAYS)
	3 TO 7	BASE IS SPLIT LENGTHWISE, EQUIPMENT SECTION AND AISLE SECTION SHIP SEPARATELY.	2	EQUIPMENT SECTION = 570 + (2050 X NUMBER OF BAYS) AISLE SECTION = 630 + 525 X NUMBER OF BAYS	
	8 OR MORE	BASE IS SPLIT LENGTHWISE, SEPARATING EQUIPMENT SECTIONS FROM AISLE SECTIONS. EQUIPMENT SECTIONS AND AISLE SECTIONS ARE ALSO SPLIT EVERY 7 BAYS MAXIMUM.	DIVIDE THE NUMBER OF BAYS BY 7, ROUND UP TO THE NEAREST WHOLE NUMBER AND MULTIPLY THAT NUMBER BY 2.	EACH END EQUIPMENT SECTION = 285 + (2050 X NUMBER OF BAYS IN THAT SECTION). EACH MIDDLE EQUIPMENT SECTION = 2050 X NUMBER OF BAYS IN THAT SECTION. EACH END AISLE SECTION = 315 + (525 X NUMBER OF BAYS IN THAT SECTION). EACH MIDDLE AISLE SECTION = 525 X NUMBER OF BAYS IN THAT SECTION.	

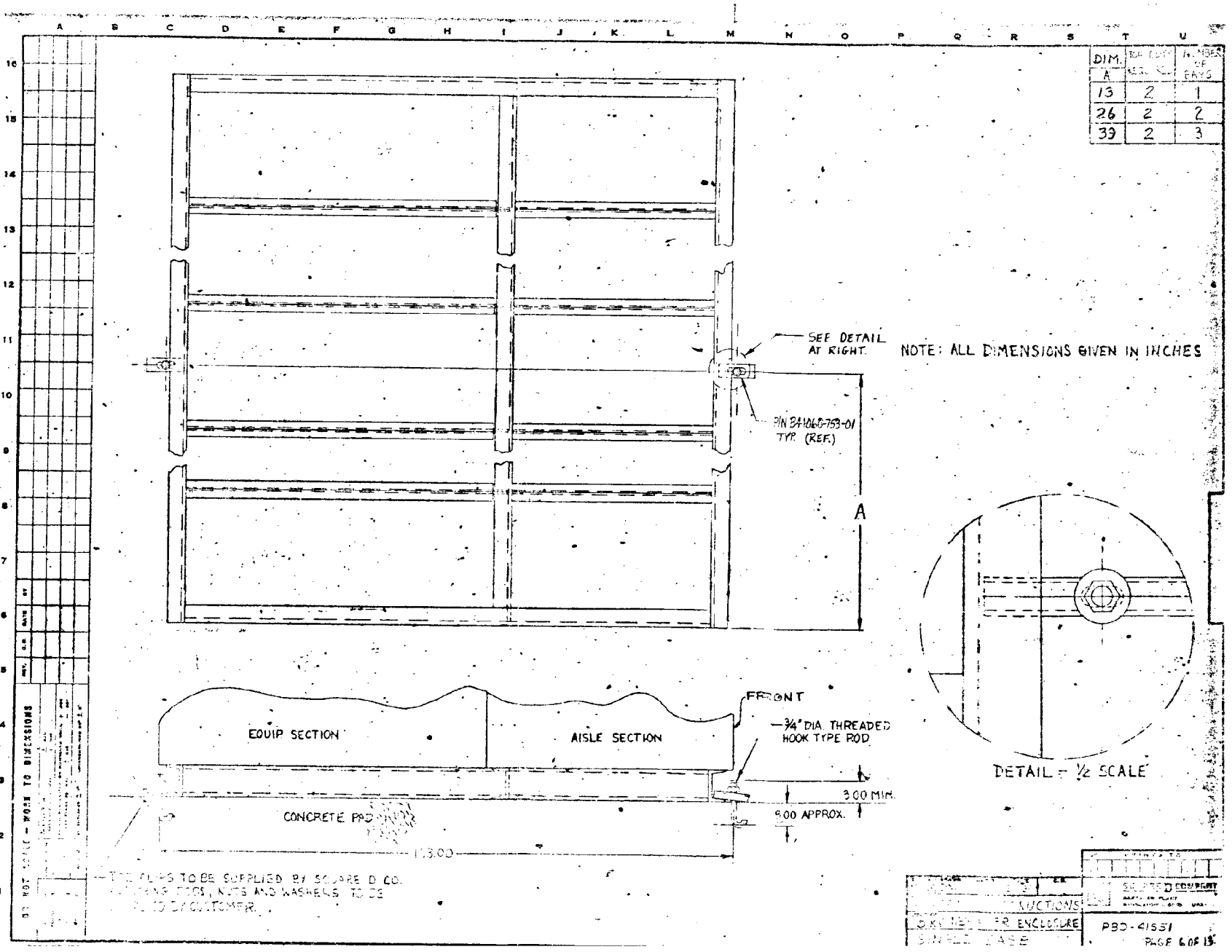
* INCLUDES WEIGHT OF SWITCHGEAR BUT DOES NOT INCLUDE WEIGHT OF BREAKERS.

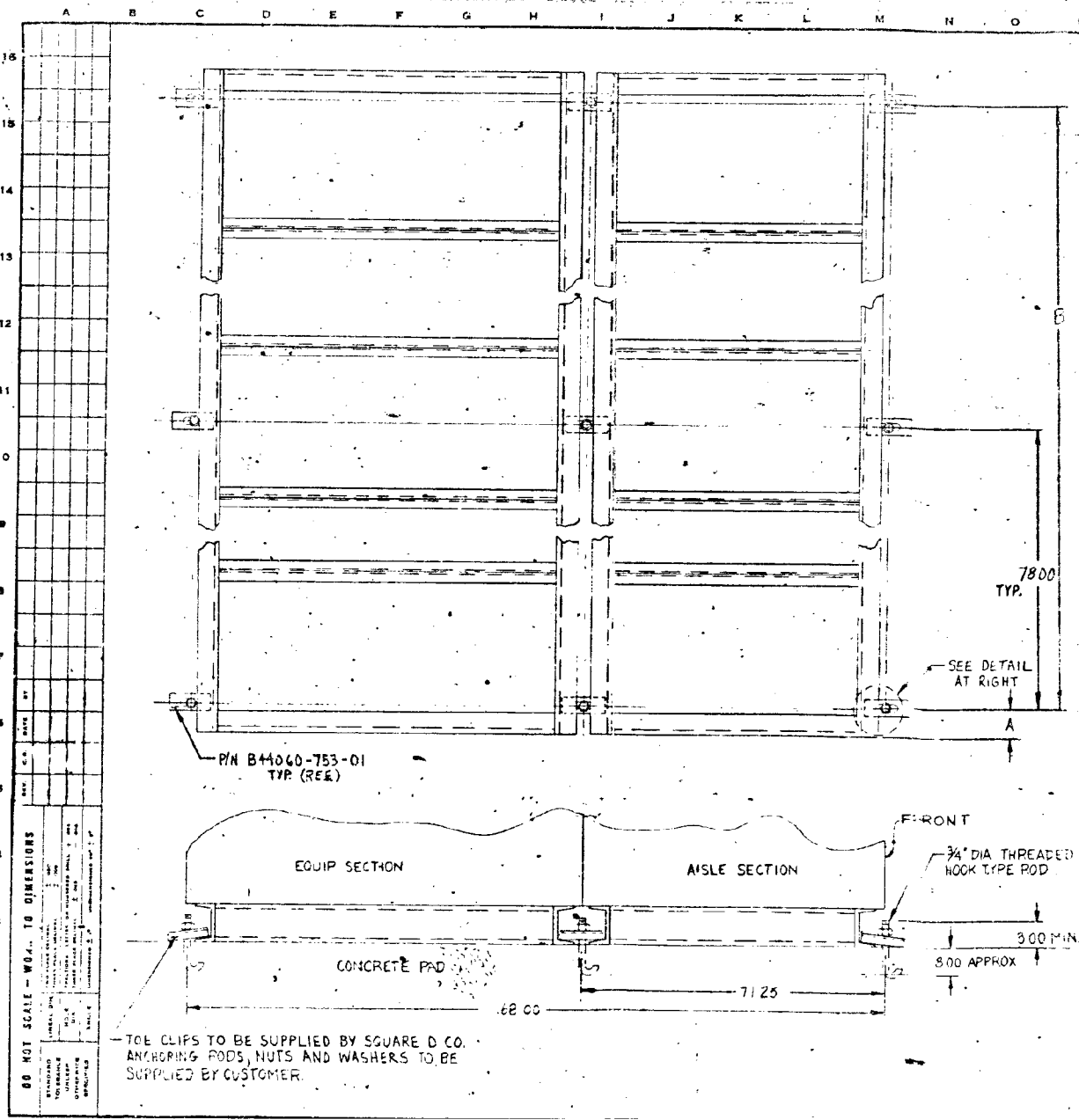
SCOTT, M. 1/20

TITLE: SHIPPING INSTRUCTION	
LOCATION:	
FACTORY ORDER No.	
DRAWN: DAG.	SQUARED COMPANY MIDDLETOWN, OHIO
CHECKED:	
SCALE: 1/4" = 1'-0"	DWG No. PBD-41551 PAGE 5 OF 13
DATE: 3-13-76	



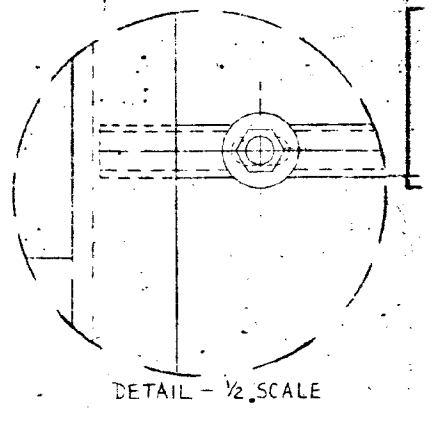
- NOTES:
1. MINIMUM SAFE LIFTING CABLE SIZE IS 1/2 DIA. (6 x 12) STANDARD STEEL HOISTING CABLE.
 2. MINIMUM SAFE SPREADER BAR IS 3" DIA. STANDARD STEEL PIPE. NOTCH ENDS.



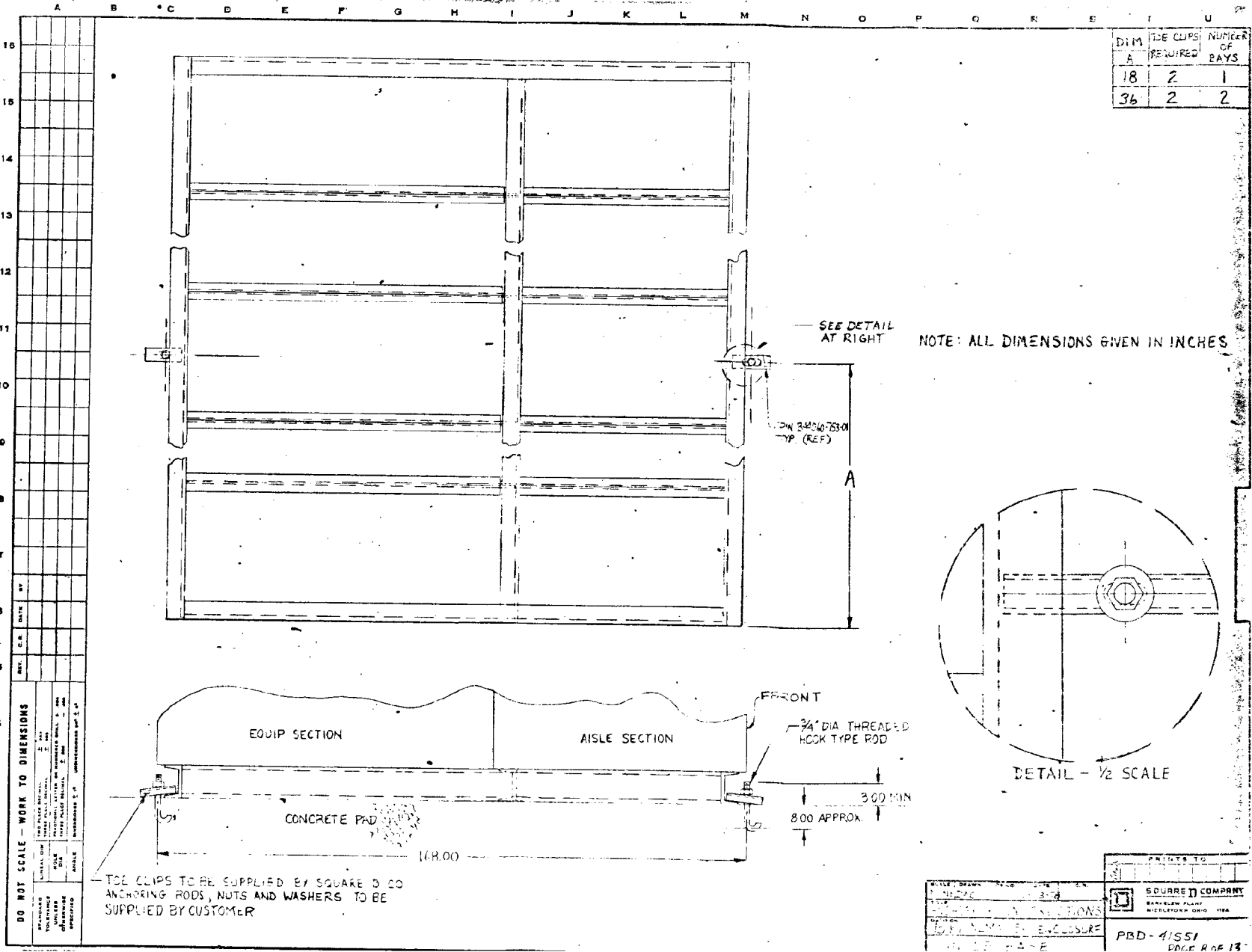


B	A	CLIPS	NO OF PAYS
76	26	4	5
78	39	6	6
156	13	9	7
156	26	9	8
156	39	9	9
234	13	12	10
234	26	12	11
234	39	12	12
312	13	15	13
312	26	15	14
312	39	15	15
390	13	18	16
390	26	18	17
390	39	18	18
468	13	21	19
468	26	21	20
468	39	21	21

NOTE: ALL DIMENSIONS
GIVEN IN INCHES.

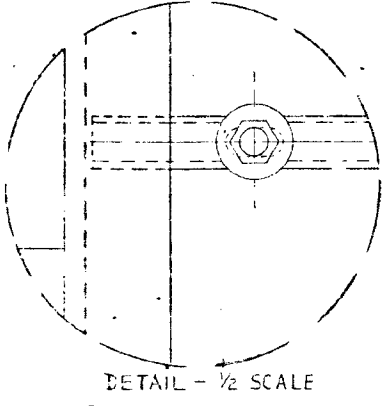


DATE	BY	CHKD	APP'D
10/1/51	J. H. B.	J. H. B.	J. H. B.
SQUARE D COMPANY			
SPLIT PHASE			
PBD - 41551			
PAGE 7 OF 13			



DIM	TOE CLIPS	NUMBER
A	REQUIRED	OF
18	2	1
36	2	2

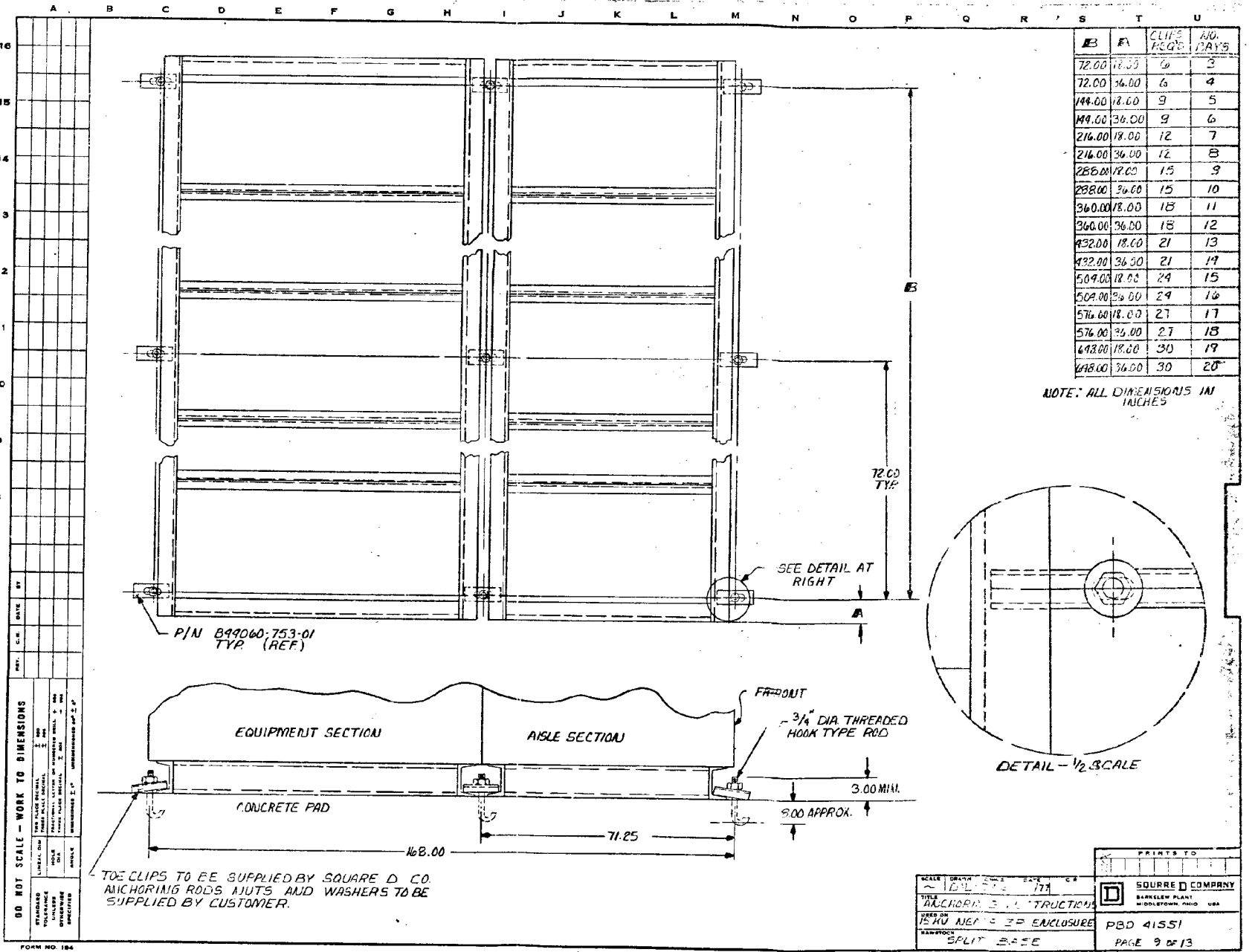
NOTE: ALL DIMENSIONS GIVEN IN INCHES



DO NOT SCALE - WORK TO DIMENSIONS

TOE CLIPS TO BE SUPPLIED BY SQUARE D CO
ANCHORING RODS, NUTS AND WASHERS TO BE
SUPPLIED BY CUSTOMER

DATE	BY	CHKD	APP'D
10/1/51	J. H. S.	J. H. S.	J. H. S.
SQUARE D COMPANY BARKLEY PLANT MIDDLETOWN, OHIO 44660			
PBD-4/SS1 PAGE 13			



OPTIONAL 3 PT. LATCH ASSY'S TO BE USED IN PLACE OF STD. REAR FRAME ASSY'S WHEN REQ'D.

M/L SELECTION GUIDE, 5KV METAL CLAD WALK-IN ENCLOSURE

PRINTS TO

SCALE DRAWN CHKD DATE 2-28-78

FILE M/L SELECTION GUIDE 5KV NEMA 3R

USERS RM ENCLOSURE

PHD-41551 Sht. 10 of 13

SCALE DRAWN CHKD DATE 2-28-78

FILE M/L SELECTION GUIDE 5KV NEMA 3R

USERS RM ENCLOSURE

PHD-41551 Sht. 10 of 13

SCALE DRAWN CHKD DATE 2-28-78

FILE M/L SELECTION GUIDE 5KV NEMA 3R

USERS RM ENCLOSURE

A		B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
		#	SIDE FRAME ASSEMBLY	REAR FRAME ROOF PAN & FRONT PANEL ASSEMBLY	REAR FRAME ROOF PAN & FRONT PANEL ASS'Y (PAN)	TRIM ASS'Y	QTY	BASE WELDMENT NON-SPLIT	QTY	BASE WELDMENT EQUIP. SECT.	QTY	BASE WELDMENT AISLE SECT.	QTY	REAR FRAME ROOF PAN & FRONT PANEL ASS'Y-3 PT. LATCH	QTY	REAR FRAME ROOF PAN & FRONT PANEL ASS'Y-3 PT. LATCH (LAV)
		1	11061-262-50	1	11061-273-50	1	1	11061-171-50	1					11061-276-50	1	
		2	11061-277-50	1	11061-272-50	1	1	11061-171-50	1					11061-277-50	1	
		3	11061-262-50	1	11061-273-50	1	1	11061-171-50	1					11061-278-50	1	
		4	11061-262-50	1	11061-273-50	1	1	11061-171-50	1					11061-279-50	1	
		5	11061-262-50	1	11061-273-50	1	1	11061-171-50	1					11061-280-50	1	
		6	11061-262-50	1	11061-273-50	1	1	11061-171-50	1					11061-281-50	1	
		7	11061-262-50	1	11061-273-50	1	1	11061-171-50	1					11061-282-50	1	
		8	11061-262-50	1	11061-273-50	1	1	11061-171-50	1					11061-283-50	1	
		9	11061-262-50	1	11061-273-50	1	1	11061-171-50	1					11061-284-50	1	
		10	11061-262-50	1	11061-273-50	1	1	11061-171-50	1					11061-285-50	1	
		11	11061-262-50	1	11061-273-50	1	1	11061-171-50	1					11061-286-50	1	
		12	11061-262-50	1	11061-273-50	1	1	11061-171-50	1					11061-287-50	1	
		13	11061-262-50	1	11061-273-50	1	1	11061-171-50	1					11061-288-50	1	
		14	11061-262-50	1	11061-273-50	1	1	11061-171-50	1					11061-289-50	1	
		15	11061-262-50	1	11061-273-50	1	1	11061-171-50	1					11061-290-50	1	
		16	11061-262-50	1	11061-273-50	1	1	11061-171-50	1					11061-291-50	1	
		17	11061-262-50	1	11061-273-50	1	1	11061-171-50	1					11061-292-50	1	
		18	11061-262-50	1	11061-273-50	1	1	11061-171-50	1					11061-293-50	1	
		19	11061-262-50	1	11061-273-50	1	1	11061-171-50	1					11061-294-50	1	
		20	11061-262-50	1	11061-273-50	1	1	11061-171-50	1					11061-295-50	1	

DO NOT SCALE - WORK TO DIMENSIONS

LINEAL DIM	THREE PLACE DECIMAL	± .005
ANGLE	THREE PLACE DECIMAL	± .005
THREE PLACE DECIMAL	± .005	

UNLESS OTHERWISE SPECIFIED

SCALE	DRAWN	CHKD	DATE	2-28-78
FILE	M/L SELECTION GUIDE 5KV NEMA 3R			
USERS RM	ENCLOSURE			
PHD-41551 Sht. 10 of 13				

PRINTS TO	
M/L SELECTION GUIDE 5KV NEMA 3R	
ENCLOSURE	
PHD-41551 Sht. 10 of 13	

SCALE	DRAWN	CHKD	DATE	2-28-78
FILE	M/L SELECTION GUIDE 5KV NEMA 3R			
USERS RM	ENCLOSURE			
PHD-41551 Sht. 10 of 13				

SCALE	DRAWN	CHKD	DATE	2-28-78
FILE	M/L SELECTION GUIDE 5KV NEMA 3R			
USERS RM	ENCLOSURE			
PHD-41551 Sht. 10 of 13				

SCALE	DRAWN	CHKD	DATE	2-28-78
FILE	M/L SELECTION GUIDE 5KV NEMA 3R			
USERS RM	ENCLOSURE			
PHD-41551 Sht. 10 of 13				

SCALE	DRAWN	CHKD	DATE	2-28-78
FILE	M/L SELECTION GUIDE 5KV NEMA 3R			
USERS RM	ENCLOSURE			
PHD-41551 Sht. 10 of 13				

SCALE	DRAWN	CHKD	DATE	2-28-78
FILE	M/L SELECTION GUIDE 5KV NEMA 3R			
USERS RM	ENCLOSURE			
PHD-41551 Sht. 10 of 13				

SCALE	DRAWN	CHKD	DATE	2-28-78
FILE	M/L SELECTION GUIDE 5KV NEMA 3R			
USERS RM	ENCLOSURE			
PHD-41551 Sht. 10 of 13				

[illegible]

SCALE	DRAWN	CHECK	DATE	C.N.
~	DG		3-13-76	
TITLE INSTRUCTION DWG - LINE-UP				
FOR THRU-ROOF AIR RELIEF VALVES (3)				
REVISED ON				
5KV NEMA 3R ENCLOSURE				
DRAWING NO. ~~~~~				

H/L SELECTION GUIDE 15KV METAL CLAD WALK-IN ENCLOSURE														
#	SLIDE FRAME ASSEMBLY	QTY	REAR FRAME ROOF PAN & FRONT PANEL ASS'Y (FAN)	QTY	TRIM ASS'Y	QTY	BASE WELDMENT NON-SPLIT	QTY	BASE WELDMENT EQUIP-SECT.	QTY	BASE WELDMENT AISLE SECT.	QTY	REAR FRAME ROOF PAN & FRONT PANEL ASS'Y - 3 PT LATCH (FAN)	QTY
1	11061-261-50	1	11061-264-50	1	44061-269-50	1	044061-171-54	1	-	-	-	-	11061-267-50	1
2	11061-262-50	1	11061-265-50	1	44061-269-51	1	044061-171-55	1	-	-	-	-	11061-268-50	1
3	11061-263-50	1	11061-265-50	1	11061-269-52	1	-	-	044061-172-56	1	044061-173-57	1	11061-269-50	2
4	11061-264-50	1	11061-265-50	1	44061-269-53	1	-	-	044061-172-56	1	044061-173-57	1	11061-268-50	3
5	11061-265-50	1	11061-265-50	1	11061-269-54	1	-	-	044061-172-57	1	044061-173-57	1	11061-268-50	4
6	11061-266-50	1	11061-265-50	1	44061-269-55	1	-	-	044061-172-58	1	044061-173-58	1	11061-268-50	6
7	11061-267-50	1	11061-265-50	1	11061-269-56	1	-	-	044061-172-59	1	044061-173-59	1	11061-268-50	7
8	11061-268-50	1	11061-265-50	1	44061-269-57	1	-	-	044061-172-59	2	044061-173-59	2	11061-268-50	8
9	11061-269-50	1	11061-265-50	1	44061-269-58	1	-	-	044061-172-59	1	044061-173-59	1	11061-268-50	9
10	11061-262-50	1	11061-265-50	1	44061-269-59	1	-	-	044061-172-59	1	044061-173-59	1	11061-268-50	9
11	11061-263-50	1	11061-265-50	2	11061-269-60	1	-	-	044061-172-59	2	044061-173-59	2	11061-268-50	10
12	11061-264-50	1	11061-265-50	2	44061-269-61	1	-	-	044061-172-59	2	044061-173-59	2	11061-268-50	11
13	11061-265-50	1	11061-265-50	2	44061-269-62	1	-	-	044061-172-59	2	044061-173-59	2	11061-268-50	12
14	11061-266-50	1	11061-265-50	2	44061-269-63	1	-	-	044061-172-59	2	044061-173-59	2	11061-268-50	13
15	11061-267-50	1	11061-265-50	2	44061-269-64	1	-	-	044061-172-59	3	044061-173-59	3	11061-268-50	14
16	11061-268-50	1	11061-265-50	2	44061-269-65	1	-	-	044061-172-59	2	044061-173-59	2	11061-268-50	15
17	11061-269-50	1	11061-265-50	2	44061-269-66	1	-	-	044061-172-59	2	044061-173-59	2	11061-268-50	16
18	11061-262-50	1	11061-265-50	2	44061-269-67	1	-	-	044061-172-59	3	044061-173-59	3	11061-268-50	17
19	11061-263-50	1	11061-265-50	2	44061-269-68	1	-	-	044061-172-59	2	044061-173-59	2	11061-268-50	18
20	11061-264-50	1	11061-265-50	2	44061-269-69	1	-	-	044061-172-59	2	044061-173-59	2	11061-268-50	18

OPTIONAL 3 PT LATCH ASS'Y'S TO BE USED IN PLACE OF STD REAR FRAME ASS'Y WHEN

ENCLOSURE

ENCLOSURE LIST 15KV NEMA 3R

USED ON

RAW STOCK

SCALE: 1" = 8"

DRAWN: BA

DATE: 2-28-78

CHECKED: [Signature]

PRINTS TO: [Blank Box]

SQUARE D COMPANY

BARRELEW PLANT

MIDDLEBURN OHIO USA

PHD-41551 Sht. 12 of 13

DO NOT SCALE - WORK TO DIMENSIONS

REV: 12/79 DS

DATE: 12/79

BY: [Signature]

STANDARD UNLESS OTHERWISE SPECIFIED

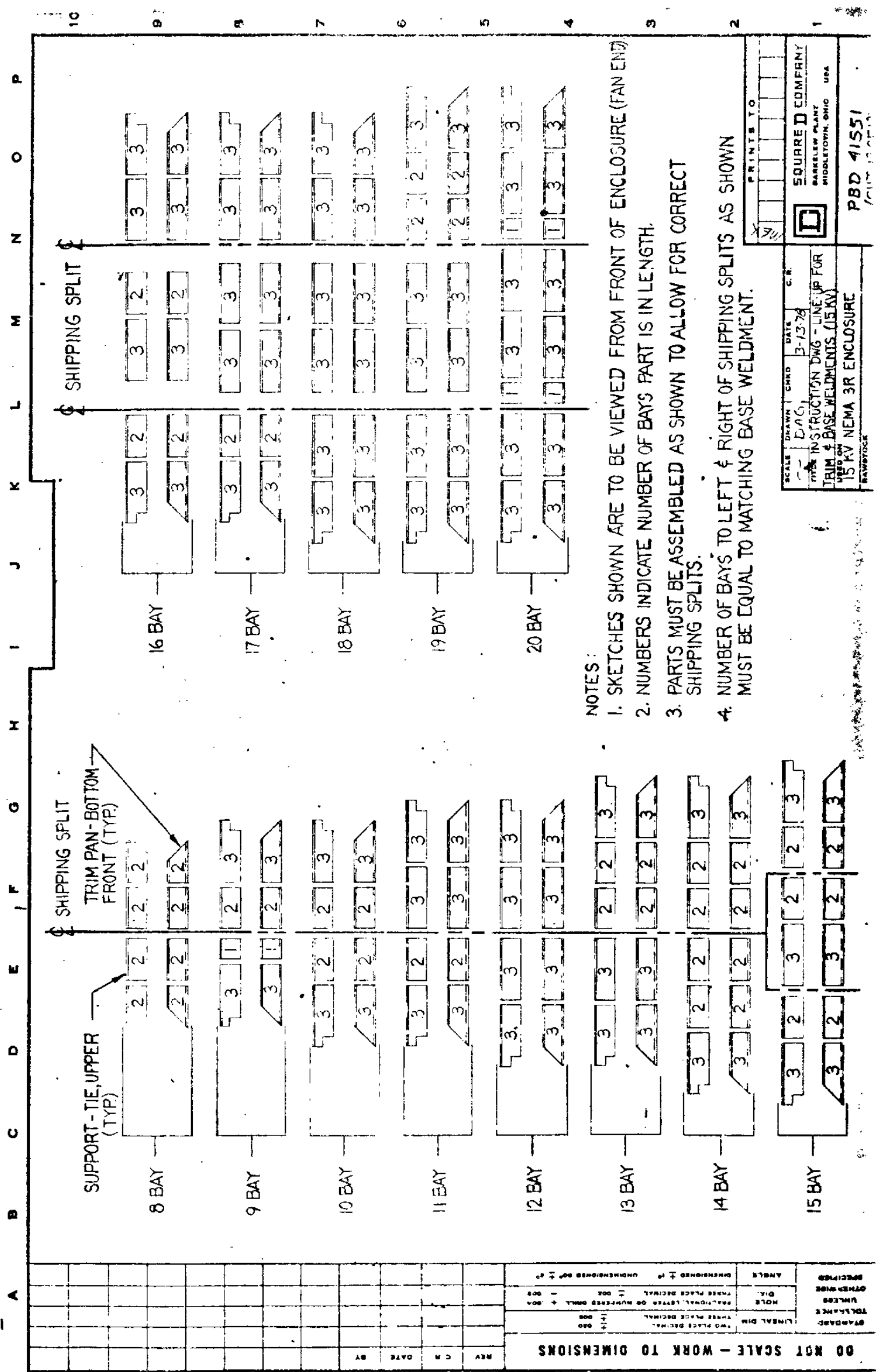
HOLE DIA THREE PLACE DECIMAL + .005

ANGLES THREE PLACE DECIMAL + .005

FRONT PLACE DECIMAL + .005

UNFINISHED SURF + .005

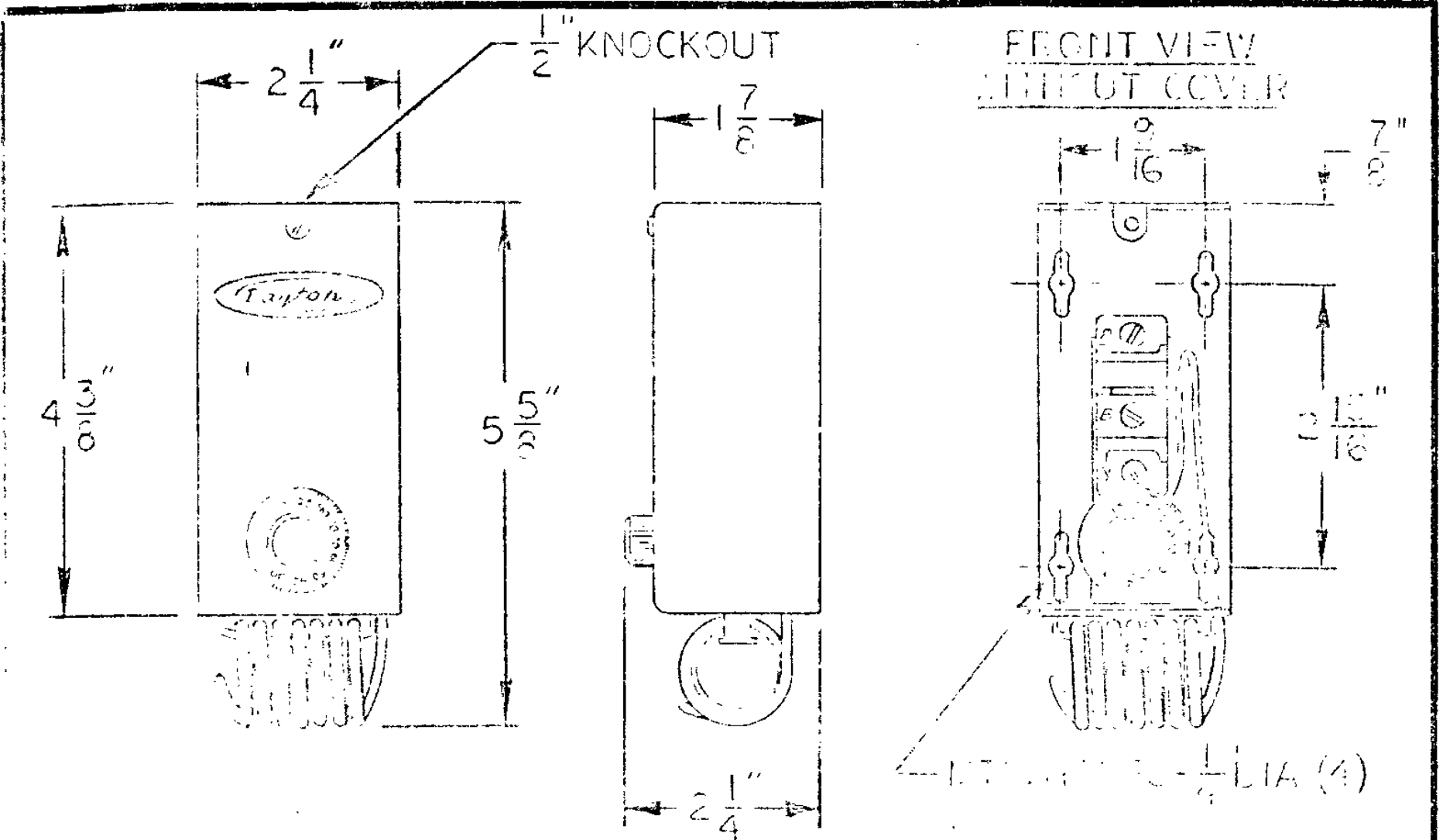
SCALE DRAWN		CMD	DATE	C/R	 SQUARE D COMPANY BARRELEW PLANT MIDDLETOWN OHIO USA
~ BA			2-28-78		
TITLE					PRD-41551 Sht. 12 of 13
N/A. SELECTION LIST 15KV NEMA 3R					
USED ON					
ENCLOSURE					
RAW STOCK					



- NOTES:
1. SKETCHES SHOWN ARE TO BE VIEWED FROM FRONT OF ENCLOSURE (FAN END)
 2. NUMBERS INDICATE NUMBER OF BAYS PART IS IN LENGTH.
 3. PARTS MUST BE ASSEMBLED AS SHOWN TO ALLOW FOR CORRECT SHIPPING SPLITS.
 4. NUMBER OF BAYS TO LEFT & RIGHT OF SHIPPING SPLITS AS SHOWN MUST BE EQUAL TO MATCHING BASE WELDMENT.

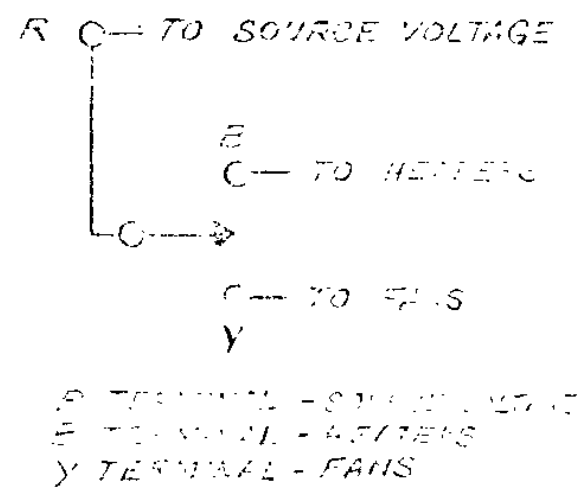
SCALE	DRAWN	CHD	DATE	C.R.
	DAG		3-13-78	
INSTR. INSTRUCTION DWG - LINE UP FOR TRIM & BASE WELDMENTS (15 KV)				
15 KV NEMA 3R ENCLOSURE				
SQUARE D COMPANY BARKLEW PLANT MIDDLETOWN, OHIO USA				
PBD 41551				

00 NOT SCALE - WORK TO DIMENSIONS



MAXIMUM ELECTRICAL RATINGS

VOLT - AC	120	208	40
FULL LOAD - HP	10	20	0
LOCKED ROTOR AMPS	960	55.2	48.0
NON-INDUCTIVE (RESISTIVE) LOAD	25 AMPS		
ON SERVICE (E)	100/77/60		
PILOT COIL - 125 VA., 24 VOLT			



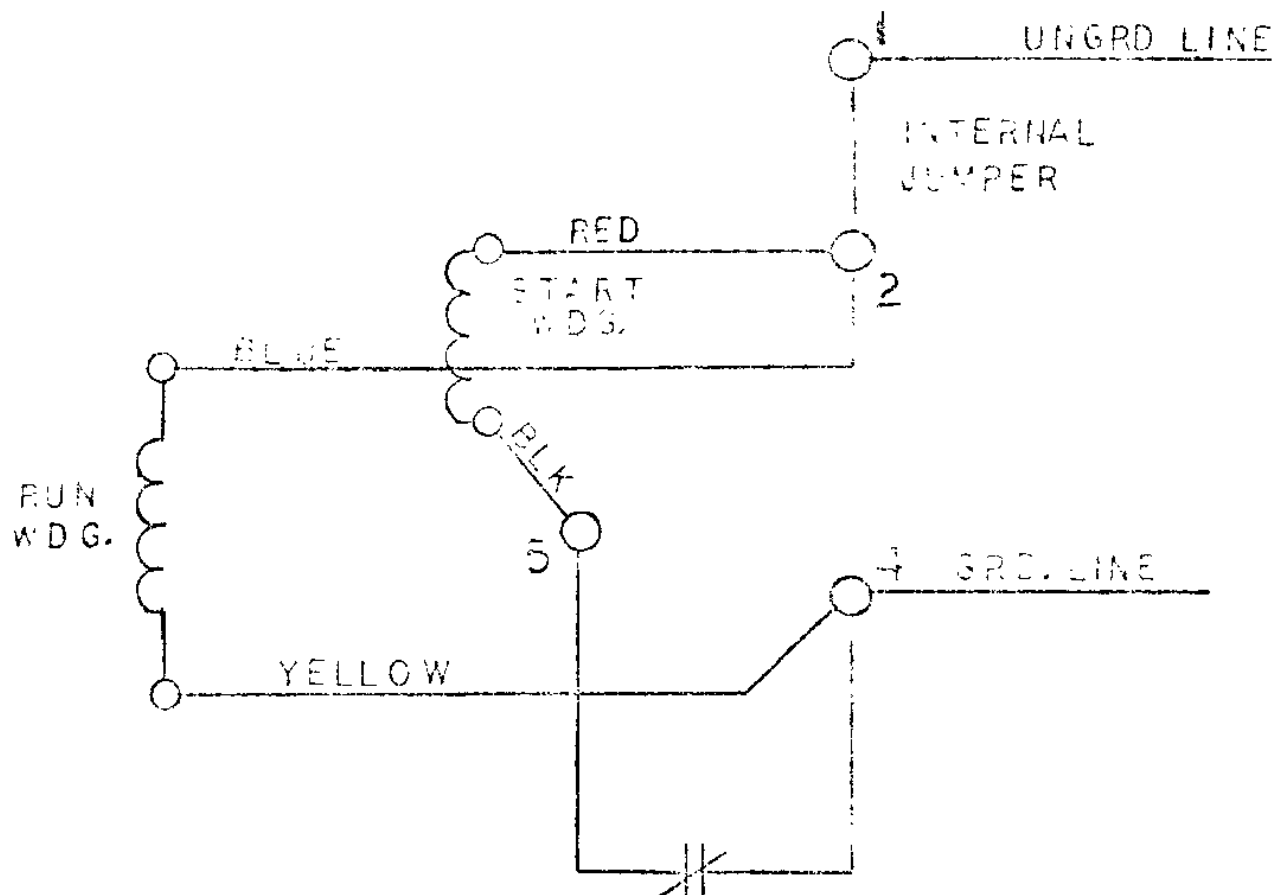
RECOMMENDED THERMOSTAT
FOR OUTDOOR ENCLOSURE

DAYTON THERMOSTAT

REV.	C.R.	DATE	BY	DO NOT SCALE - WORK TO DIMENSIONS				
				STANDARD TOLERANCE UNLESS OTHERWISE SPECIFIED	LINEAL DIM.	TWO PLACE DECIMAL $\pm .020$ THREE PLACE DECIMAL $\pm .005$		
					HOLE DIA.	FRACTIONAL, LETTER, OR NUMBERED DRILL $+ .004$ THREE PLACE DECIMAL $\pm .002$ $- .002$		
					ANGLE	DIMENSIONED $\pm 1^\circ$ UNDIMENSIONED $90^\circ \pm 2^\circ$		
				SCALE	DRAWN	CHKD.	DATE	C.R.
				1/2		KJC	11-75	11-75
				TITLE DAYTON THERMOSTAT				
				USED ON				
				RAWSTOCK				
PRINTS TO				SQUARE D COMPANY BARKELEW PLANT MIDDLETOWN, OHIO USA				
INDEX								
A	B	C	D	E	F	G	PED 41552	

MOTOR DATA - MC BUILDING FAN ASSEMBLY A44050-157-50

- Dayton Electric Mfg. Co. #S60ERC-5211
115 VAC, 60 Hz, 1/4 H.P., 4.4 Amp RLS.
Sleeve bearings, totally enclosed.
- Motor internal wiring.



CENTRIFUGAL SWITCH
CLOSED ON MOTOR
STARTING

- Switch black and red leads to reverse rotation.
- Oil motor annually with SAE 20 oil.
- Fuse motor circuit with a Tinsman FMS fuse (when required).

REV.	C.R.	DATE	BY	DO NOT SCALE - WORK TO DIMENSIONS			
				STANDARD TOLERANCE UNLESS OTHERWISE SPECIFIED	LINEAL DIM.	TWO PLACE DECIMAL = .020 THREE PLACE DECIMAL = .008	
					HOLE DIA.	FRACTIONAL LETTER OR NUMBERED DRILL + .004 THREE PLACE DECIMAL = .002 - .002	
					ANGLE	DIMENSIONED ± 1° DIMENSIONS ONED 90° ± 2°	
				SCALE	DRAWN	CHKD	DATE
TITLE				SQUARE D COMPANY			
1 - MC BUILDING FAN ASSEMBLY A44050-157-50				BARKELEW PLANT MIDDLETOWN, OHIO USA			
USED ON				PBD 41553			
ASSEMBLY A44050-157-50							
RAWSTOCK							

A B C D E F G

NOTES: MC NEMA 3R BUILDINGS:

1. The building base is a welded frame made from 6" high structural steel channels (13.00 lb/foot) and formed 7 ga. steel channels. Primary load bearing members are 6" structural steel. Base design limits the deflection of the longest base during lifting to 1/16 inch maximum. Aisle floors are 7 ga. hot roll steel. Rust preventive undercoating is provided on the entire undersurface of the building.
2. Exterior walls and roof are formed from 14 ga. Galvanneal steel sheet. Walls and roof are designed to support a dead load of 3 ft. of wet snow (30 lbs/ft³ density). Roof seams are capped. Vertical wall seams are caulked with silicon rubber - low Corning (Type 721 A-11) - formulated for exterior use. Exterior surfaces of building have two coats of ASA 49 gray paint, interior surfaces one coat of ASA 49 paint.
3. The center aisle partitions are split horizontally on both sides of the aisle, and the aisle section is shipped in sub-assemblies. A maximum 9 bays, 5kV or 7 bays, 15kV in each aisle section can be shipped as a single shipping section. The MC Nema 1 equipment sections are shipped completely assembled, including main bus. Each shipping section can be bolted into place with a crane while at interlocking with other shipping sections.
4. Buildings are fan ventilated. One 12" dia. fan - 740 CFM free air - is standard for buildings up to and including 10 bays (5 bays each side of aisle). Two 12" dia. fans - 1480 CFM free air - is standard for buildings exceeding 5 bays on each side of aisle. Fans are thermostatically controlled.
5. Interior lighting is provided to supply sufficient illumination for normal equipment operation and maintenance. Four foot side aisle (6) buildings are supplied with incandescent lighting. Buildings 2 bays (each side of aisle) and larger are supplied with fluorescent. Three way light switches are mounted at doors on buildings exceeding 5 bays on each side of aisle.
6. 12 volt outlets are provided at each end of aisle.
7. A commercial steel door equipped with a door lock, door interlock lock is provided on each end of the aisle section of all buildings. Door keys are identical for both doors. Commercial door closers are available as an option at additional cost.

REV.	C.P.	DATE	BY	DO NOT SCALE - WORK TO DIMENSIONS			
				STANDARD TOLERANCE UNLESS OTHERWISE SPECIFIED	CENTRAL DIA. HOLE DIA.	TWO PLACE DECIMAL THREE PLACE DECIMAL FRACTIONAL LETTER OR NUMBERED DECIMAL + 1000 THREE PLACE DECIMAL	☐ G20 ☐ G20 I ☐ G20
				ANGLE	DIMENSIONS ± .12	UNMEASURED ± .12	
				DATE	CHG	DATE	CHG
				TITLE MC NEMA 3R BUILDING WALK-IN USED ON ENCLOSURE G-14 RAWSTOCK BLAKELEY COMPANY BAKKELEW PLANT WHEELTOWN OHIO U.S.A.			
PRINTS TO				PRD-41580 Pg. 1 of 12			

A

B

C

D

E

F

G

NOTES: MC NEMA 3R BUILDINGS (CONT'D.):

8. Hinged coverplates are standard at rear of each MC equipment bay. Plates are held by tamperproof hardware. Tamperproof wrench is supplied with the building. Hinged coverplates can be equipped with 3 point latches per customer option and additional cost.
9. As standard, buildings are equipped with strip heaters in each MC equip bay to prevent condensation. Each bay has 3 strip heaters installed for a total wattage of 375 watts. The strip heaters in each cell are controlled by a thermostat in that cell. Electric space heaters for heating the aisle portion of the building are available on customer option at additional cost.
10. Removable steel coverplates over electric entrance areas are included as standard.

REV.	C.R.	DATE	BY	DO NOT SCALE - WORK TO DIMENSIONS			
				STANDARD TOLERANCE UNLESS OTHERWISE SPECIFIED	LINEAL DIM.	TWO PLACE DECIMAL $\pm .020$ THREE PLACE DECIMAL $\pm .005$	
					HOLE DIA.	FRACTIONAL LETTER OR NUMBERED DRILL $\pm .004$ THREE PLACE DECIMAL $\pm .002$	
					ANGLE	DIMENSIONS $\pm .01$ UNLESS NOTED $\pm .02$	
				SCALE 1" = 16" DATE 12-11-71 C.R.			
				TITLE SQUARE Y COMPANY GARKELEW PLANT MIDDLETOWN OHIO USA			
				MC NEMA 3R CONE AISLE WALK-IN USED ON INVENTORY 6-14 RAWSTOCK			
PRINTS TO							
A	B	C	D	E	F	G	

VOLTAGE	NUMBER OF BAYS	ENCLOSURE DESIGN	SHIPPING SECTIONS	WEIGHT OF SHIPPING SECTIONS * (LB.)	ENCLOSURE LENGTH (INCHES)
5kv	1 TO 9	BASE IS SPLIT LENGTHWISE, 2 EQUIPMENT SECTIONS AND AN AISLE SECTION.	3 - 1 AISLE SECTION TO BE SHIPPED AS SUB-ASSEMBLIES AND 2 EQUIPMENT SECTIONS - ASSEMBLED COMPLETE. EACH OF THE SECTIONS TO SHIP SEPARATE.	EACH EQUIPMENT SECTION = 570 + (1850 x NUMBER OF BAYS IN LENGTH) AISLE SECTION SUB-ASSY'S TOTAL 630 + 600 x NUMBER OF BAYS.	4 + (26 x NUMBER OF BAYS)
	10 OR MORE	BASE IS SPLIT LENGTHWISE, 2 EQUIPMENT SECTIONS AND AN AISLE SECTION. EQUIPMENT SECTIONS AND AISLE SECTIONS ARE ALSO SPLIT EVERY 9 BAYS MAXIMUM.	DIVIDE THE NUMBER OF BAYS BY 9, ROUND UP TO THE NEAREST WHOLE NUMBER AND MULTIPLY THAT NUMBER BY 3. AISLE SECTIONS TO BE SHIPPED AS SUB-ASSY'S. EQUIPMENT SECTIONS TO BE ASSEMBLED COMPLETE AND SHIPPED SEPARATE.	EACH END EQUIPMENT SECTION = 285 + (1850 x NUMBER OF BAYS IN THAT SECTION). EACH MIDDLE EQUIPMENT SECTION = 1850 x NUMBER OF BAYS IN THAT SECTION. EACH END AISLE SECTION = 315 + (385 x NUMBER OF BAYS IN THAT SECTION). EACH MIDDLE AISLE SECTION = 385 x NUMBER OF BAYS IN THAT SECTION.	
15kv	1 TO 7	BASE IS SPLIT LENGTHWISE, 2 EQUIPMENT SECTIONS AND AN AISLE SECTION.	3 - 1 AISLE SECTION TO BE SHIPPED AS SUB-ASSEMBLIES AND 2 EQUIPMENT SECTIONS ASSEMBLED COMPLETE. EACH OF THE SECTIONS TO SHIP SEPARATE.	EACH EQUIPMENT SECTION = 570 + (2050 x NUMBER OF BAYS IN LENGTH). AISLE SECTION SUB-ASSY'S TOTAL 630 + 435 x NUMBER OF BAYS.	4 + (36 x NUMBER OF BAYS)
	8 OR MORE	BASE IS SPLIT LENGTHWISE, 2 EQUIPMENT SECTIONS AND AN AISLE SECTION. EQUIPMENT SECTIONS AND AISLE SECTIONS ARE ALSO SPLIT EVERY 7 BAYS MAXIMUM.	DIVIDE THE NUMBER OF BAYS BY 7, ROUND UP TO THE NEAREST WHOLE NUMBER AND MULTIPLY THAT NUMBER BY 3. AISLE SECTIONS TO BE SHIPPED AS SUB-ASSY'S. EQUIPMENT SECTIONS TO BE ASSEMBLED COMPLETE AND SHIPPED SEPARATE.	EACH END EQUIPMENT SECTION = 285 + (2050 x NUMBER OF BAYS IN THAT SECTION). EACH MIDDLE EQUIPMENT SECTION = 2050 x NUMBER OF BAYS IN THAT SECTION. EACH END AISLE SECTION = 315 + (435 x NUMBER OF BAYS IN THAT SECTION). EACH MIDDLE AISLE SECTION = 435 x NUMBER OF BAYS IN THAT SECTION.	

* INCLUDES WEIGHT OF SWITCHGEAR BUT DOES NOT INCLUDE WEIGHT OF BREAKERS.

DC. 3-29-79 M61-C239

DPN ATEN DP 3 OF 12

DO NOT SCALE - WORK TO DIMENSIONS

STANDARD TOLERANCE UNLESS SPECIFIED

LINEAL DIM. TWO PLACE DECIMAL ± .005

HOLE DIA. THREE PLACE DECIMAL ± .005

ANGLE DIMENSIONS ± 1° UNLESS OTHERWISE NOTED

REV.

C.M.

DATE

BY

TYPICAL SUB-ASSEMBLY SHIPPING SECTIONS

1

2

3

1) ENDWALL ASSEMBLY (AISLE)

2) BASE WELDMENT ASSEMBLY (AISLE)

3) ROOF (RAFTER AND PANEL) ASSEMBLY (AISLE)

NOTE: FOR FINAL ASSEMBLY REFER TO DWG. D44061-540-01 (FIELD ASSY INSTRUCTIONS)

NOTES: 1) MINIMUM SAFE LIFTING CABLE SIZE IS 1/2" DIA. (6x19) STD. STEEL HOISTING CABLE. 2) MINIMUM SAFE SPREADER BAR IS 3" DIA. STANDARD STEEL PIPE. NOTCH ENDS.

SEE DETAIL "A"

PROTECT ROOF EDGE WITH 2x4 BLOCK

DETAIL "A"

SPREADER BAR

90° MAX.

90° MAX.

SEE DETAIL "B"

EQUIPMENT SECTION

DETAIL "B"

SCALE: DRAWN: D.G. CHECKED: DATE: 3-28-79 C.R. TITLE: LIFTING INSTRUCTIONS USED ON: CENTER AISLE BUILDING RAWSTOCK

PRINTED TO

MEK

SQUIRE D COMPANY BARRELEW PLANT MIDDLETOWN, OHIO USA

PBD 41580 Pg. 6 of 12

DO NOT SCALE - WORK TO DIMENSIONS

LINEAL DIM. THREE PLACE DECIMAL
INCHES
FRACTIONAL LETTER OR NUMERICAL SEAL + 300
HOLE THREE PLACE DECIMAL
DIA. THREE PLACE DECIMAL
ANGLE DIMENSIONS ± 1° UNLESS SHOWN OTHERWISE

REV. C.N. DATE BY

A	B	C	D	E	F	G	H	J	J	K	L	M	N	O	P		
W/L SELECTION GUIDE 3KV METAL CLAD WALK-IN ENCLOSURE CENTER AISLE																	
#	SIDE FRAME ASSEMBLY (FAN ATTACH-ING)	QTY.	REAR FRAME ROOF PAN & AISLE SECT. ASSEMBLY	QTY.	TRIM ASS'Y	QTY.	BASE WELDMENT EQUIPMENT SECTION	QTY.	BASE WELDMENT AISLE SECTION	QTY.	OPTIONAL 3 PT. LATCH ASSY'S TO BE USED IN PLACE OF STD. REAR FRAME ASSY'S WHEN REQ'D.						
1	44061-510-50	1	44061-514-50	1	44061-517-50	1	44061-506-50	2	44061-505-50	1							
2	44061-510-50	1	44061-514-50	2	44061-517-51	1	44061-506-51	2	44061-505-51	1							
3	44061-510-50	1	44061-514-50	3	44061-517-52	1	44061-506-52	2	44061-505-52	1							
4	44061-510-50	1	44061-514-50	4	44061-517-53	1	44061-172-60	2	44061-505-53	1							
5	44061-510-50	1	44061-514-50	5	44061-517-54	1	44061-172-50	2	44061-505-54	1							
6	44061-511-50	1	44061-514-50	6	44061-517-55	1	44061-172-51	2	44061-505-55	1							
7	44061-511-50	1	44061-514-50	7	44061-517-56	1	44061-172-52	2	44061-505-56	1							
8	44061-511-50	1	44061-514-50	8	44061-517-57	1	44061-172-53	2	44061-505-57	1							
9	44061-511-50	1	44061-514-50	9	44061-517-58	1	44061-172-54	2	44061-505-58	1							
10	44061-511-50	1	44061-514-50	10	44061-517-59	1	44061-172-50	4	44061-505-54	2							
11	44061-511-50	1	44061-514-50	11	44061-517-60	1	44061-172-51	2	44061-505-55	1							
12	44061-511-50	1	44061-514-50	12	44061-517-61	1	44061-172-51	4	44061-505-55	2							
13	44061-511-50	1	44061-514-50	13	44061-517-62	1	44061-172-52	2	44061-505-56	1							
14	44061-511-50	1	44061-514-50	14	44061-517-63	1	44061-172-52	4	44061-505-56	2							
15	44061-511-50	1	44061-514-50	15	44061-517-64	1	44061-172-53	2	44061-505-57	1							
16	44061-511-50	1	44061-514-50	16	44061-517-65	1	44061-172-54	4	44061-505-57	2							
17	44061-511-50	1	44061-514-50	17	44061-517-66	1	44061-172-54	2	44061-505-58	1							
18	44061-511-50	1	44061-514-50	18	44061-517-67	1	44061-172-54	4	44061-505-58	2							
19	44061-511-50	1	44061-514-50	19	44061-517-68	1	44061-172-55	2	44061-505-59	1							
20	44061-511-50	1	44061-514-50	20	44061-517-69	1	44061-172-55	4	44061-505-59	2							

SCALE

DRAWN

CHKD

DATE

C.N.

PRINTS TO

ENCLOSURE

SAWTOOTH

USED ON

M/L SELECTION GUIDE 3KV NEMA 3R

TITLE

M/L SELECTION GUIDE 3KV NEMA 3R

DATE

3-6-79

C.N.

MP-0139

COMPANY

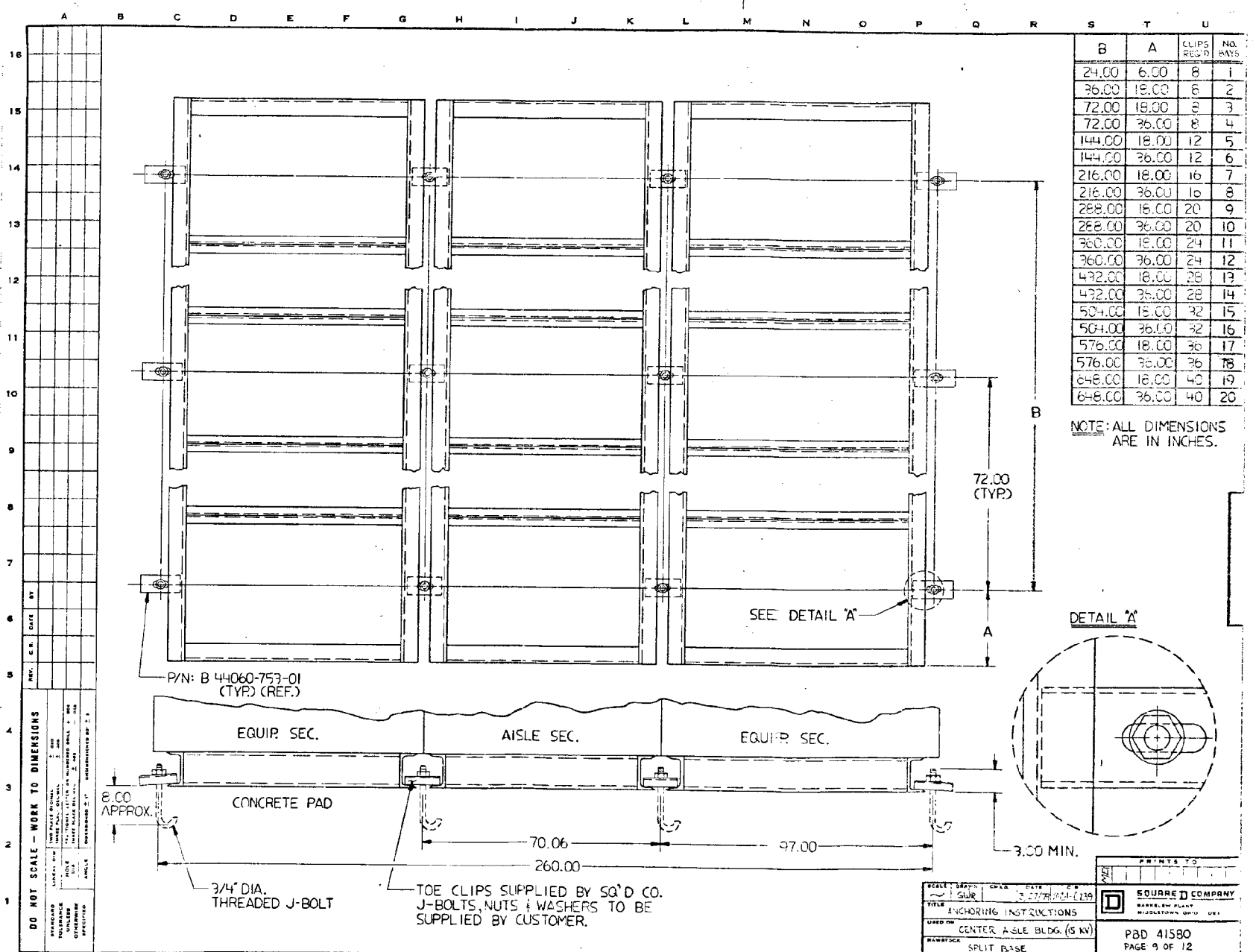
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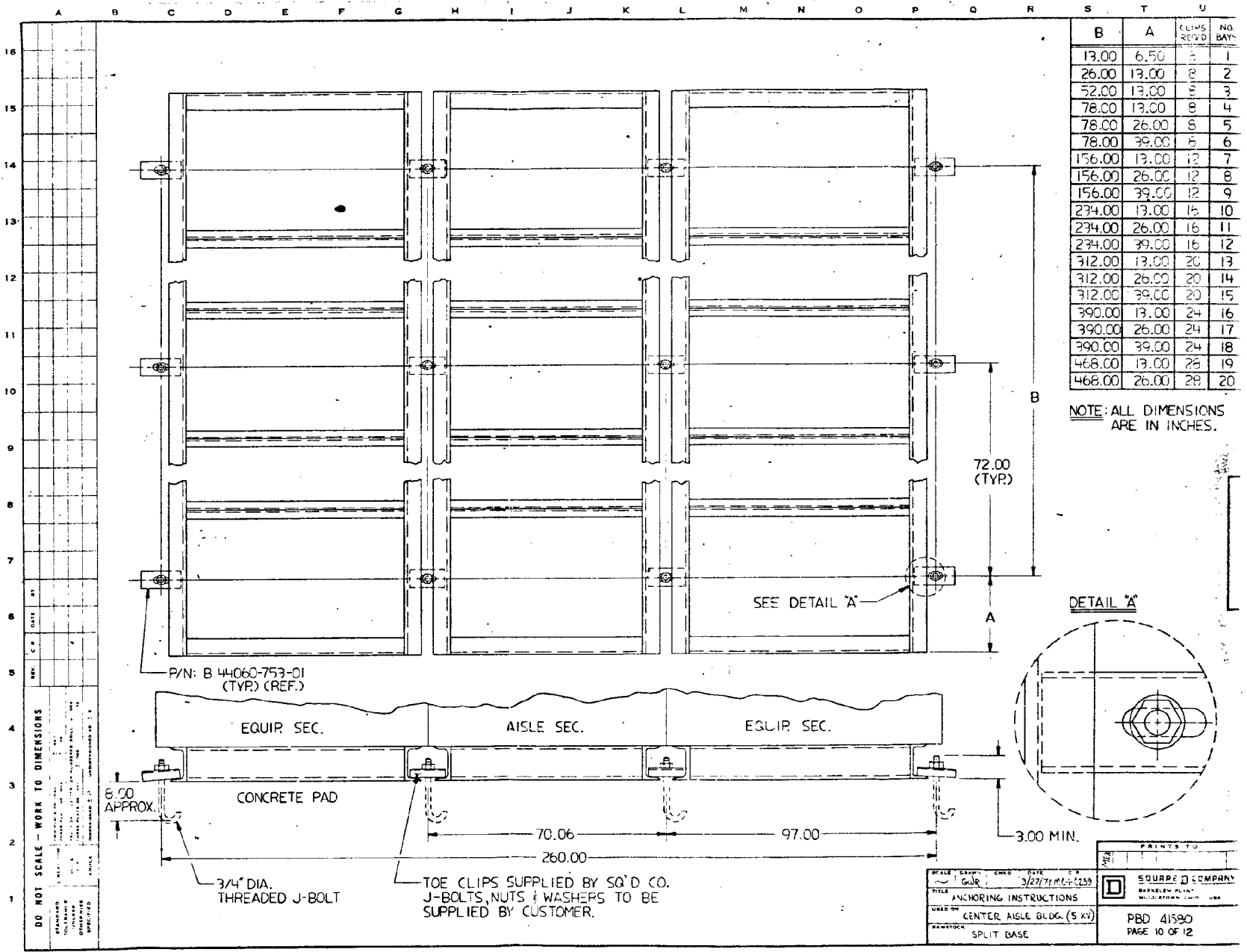
MARKET PLACE

MIDDLETOWN OHIO USA

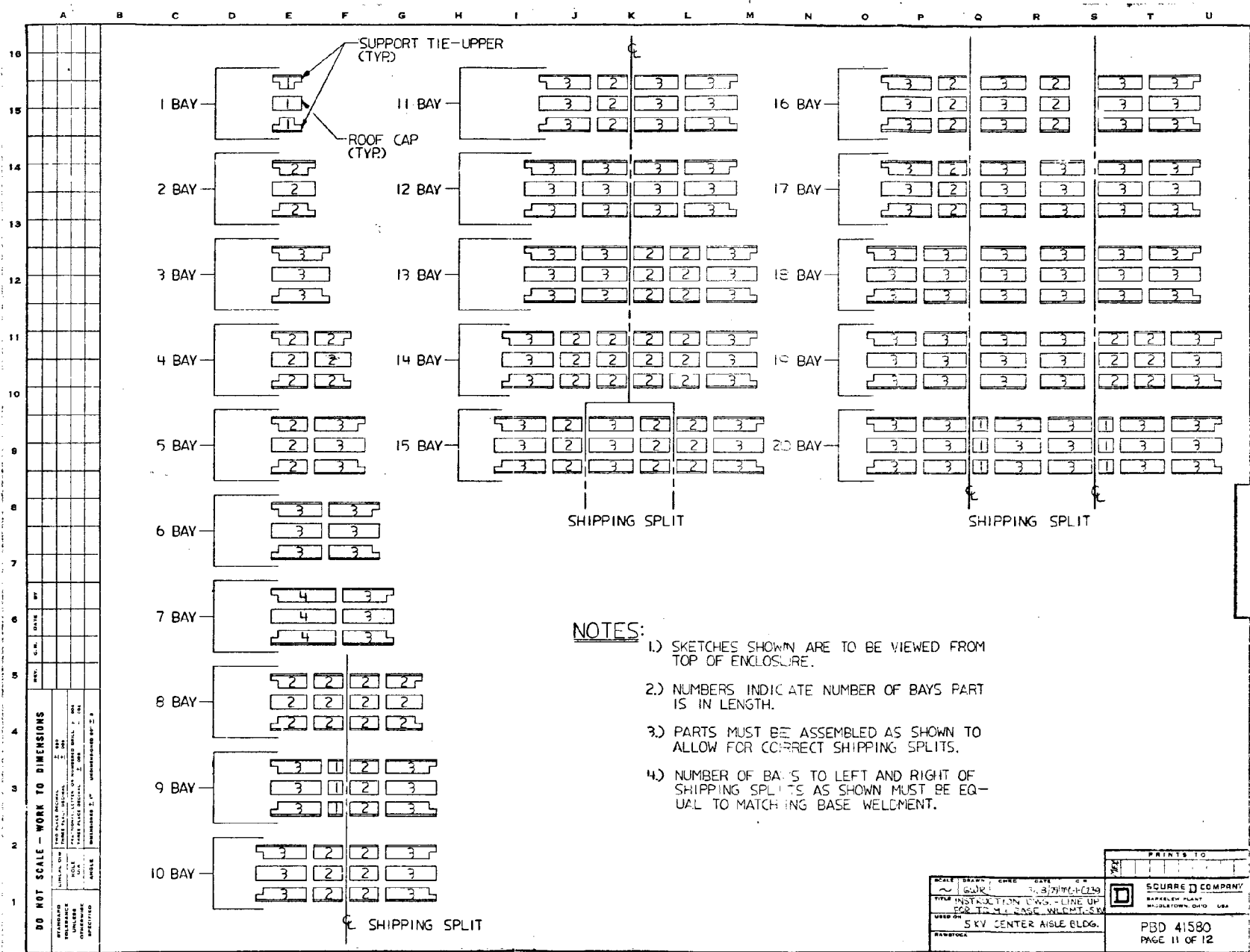
PBD-41560

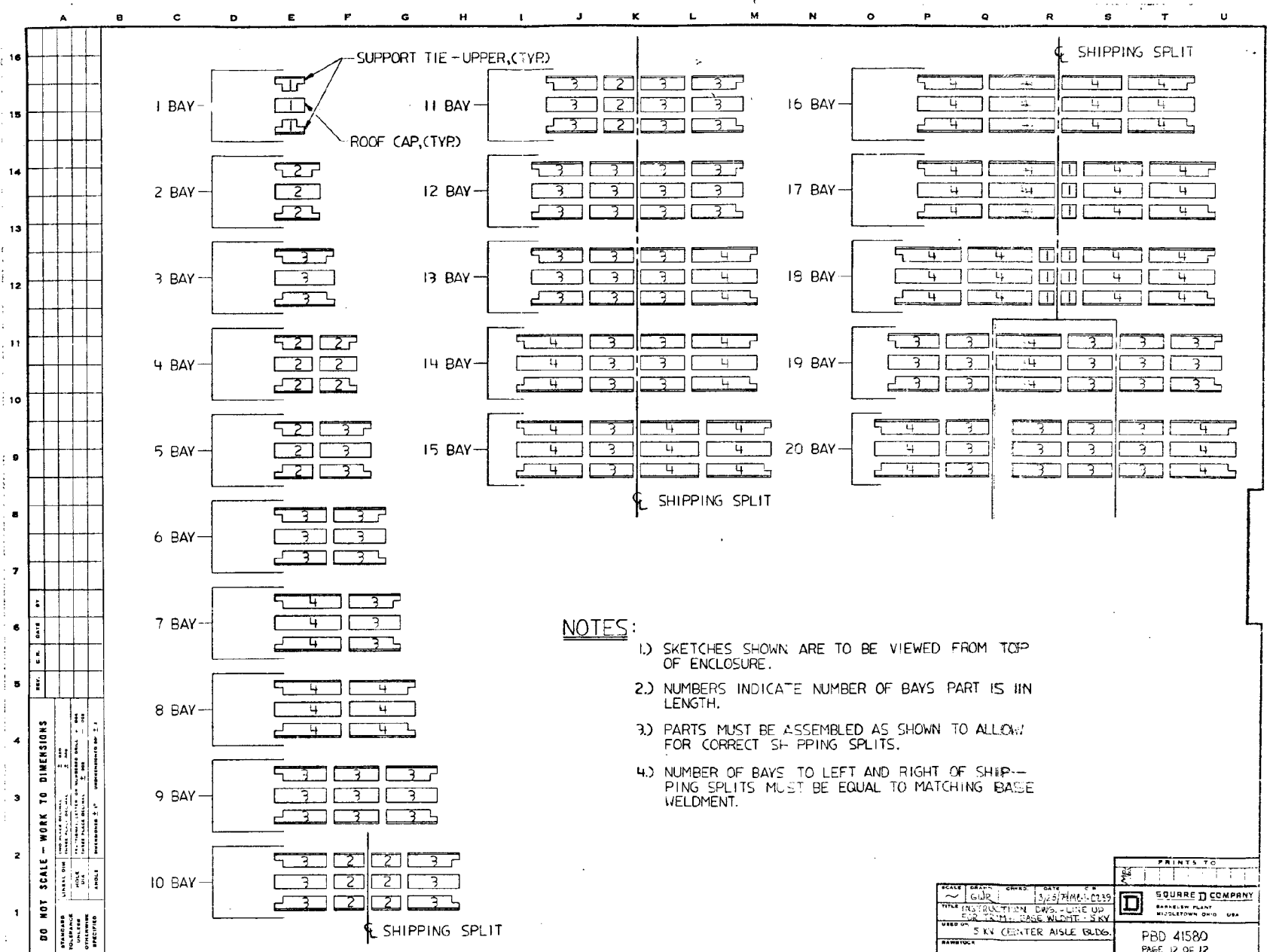
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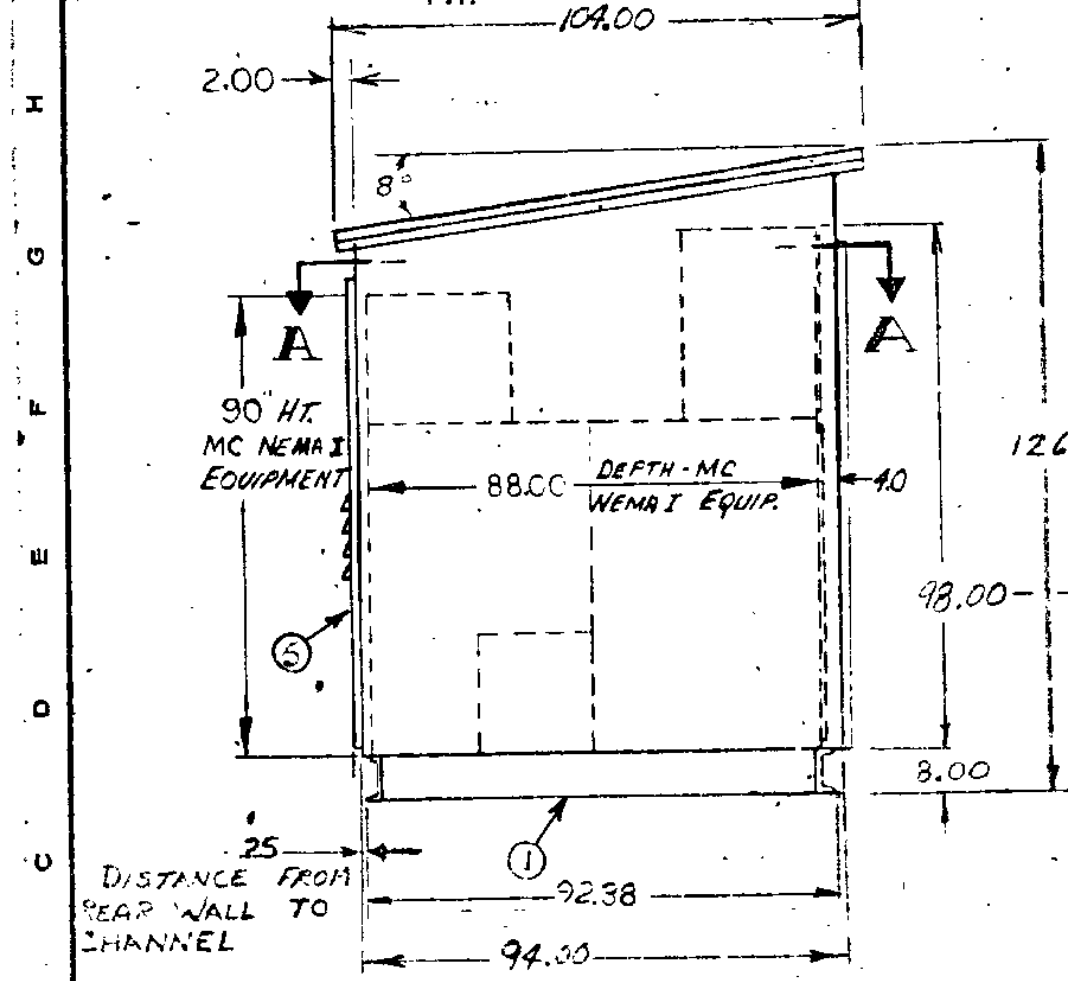
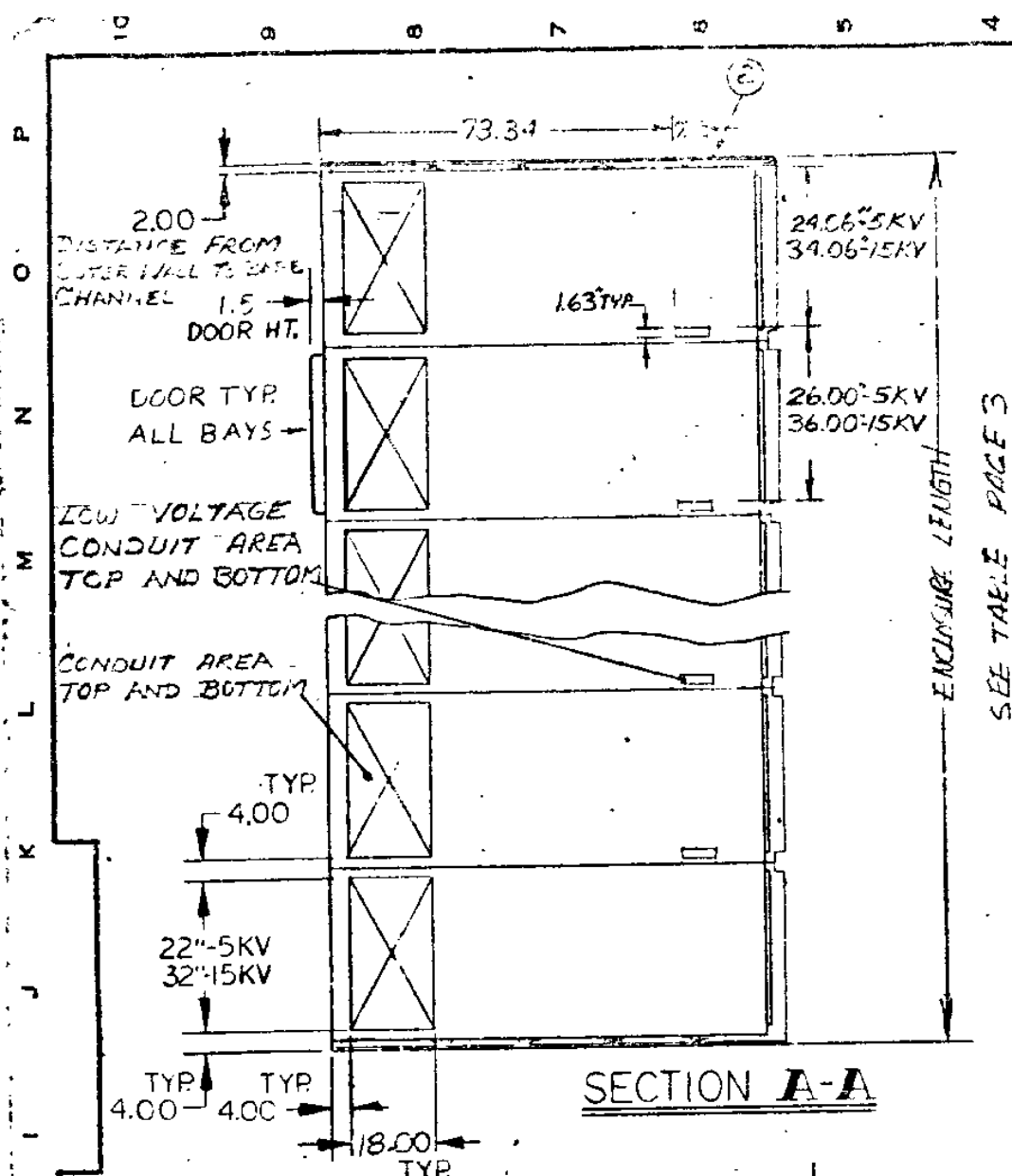




FORM NO 184







SEE NOTES - PAGE 4

PRINTS TO		SOURCE COMPANY		BARNES PLANT		MIDDLETOWN, OHIO		USA	
SCALE		DRAWN		CHKD.		DATE		C.R.	
1/30		RJ				2-19-76			
APPLICATION DATA -									
NON-WALK-IN NEMA 3									
METAL CLAD ENCLOSURE									

PRD-41600

PG 1 OF 6

STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED									
LINEAL DIM.					HOLE DIA.				
TWO PLACE DECIMAL					THREE PLACE DECIMAL				
± .005					± .005				
TWO PLACE DECIMAL					THREE PLACE DECIMAL				
± .005					± .005				
TWO PLACE DECIMAL					THREE PLACE DECIMAL				
± .005					± .005				
TWO PLACE DECIMAL					THREE PLACE DECIMAL				
± .005					± .005				

DO NOT SCALE - WORK TO DIMENSIONS

SWITCHGEAR DESCRIPTION		ENCLOSURE DATA NON-WALK IN		
VOLTAGE	NUMBER OF BAYS	SHIPPING SECTION	WEIGHT OF SHIPPING SECTIONS* (LB.)	ENCLOSURE - LENGTH (INCHES)
5KV	1 TO 10	SINGLE SHIPPING SECTION	750 + (2100 X NUMBER OF BAYS)	4. + (26 X NUMBER OF BAYS)
	11 OR MORE	SHIPPING SECTIONS ARE SPLIT EVERY 10 BAYS MAXIMUM. DIVIDE THE NUMBER OF BAYS BY 10, ROUND UP TO THE NEAREST WHOLE NUMBER.	EACH END SECTION = 375 + (2100 X NUMBER OF BAYS IN THAT SECTION). EACH MIDDLE SECTION = 2100 X NUMBER OF BAYS IN THAT SECTION.	
15KV	1 TO 7	SINGLE SHIPPING SECTION	750 + (2400 X NUMBER OF BAYS)	4. + (36 X NUMBER OF BAYS)
	8 OR MORE	SHIPPING SECTIONS ARE SPLIT EVERY 7 BAYS MAXIMUM. DIVIDE THE NUMBER OF BAYS BY 7, ROUND UP TO THE NEAREST WHOLE NUMBER.	EACH END SECTION = 375 + (2400 X NUMBER OF BAYS IN THAT SECTION). EACH MIDDLE SECTION = 2400 X NUMBER OF BAYS IN THAT SECTION.	

*INCLUDES WEIGHT OF SWITCHGEAR BUT DOES NOT INCLUDE WEIGHT OF BREAKERS. BY DATE REV CR 5-22-79 MSJ

- 10 bays - 5kV
7 bays - 15kV

Each shipping section can be moved into place with a crane without interfering with other shipping sections.

4. 120 volt outlets are supplied 1 per every 3 bays on the breaker compartment wall.
5. Hinged coverplates are standard at rear of each MC equipment bay. Plates are held by tamperproof hardware. Tamperproof wrench is supplied with the building. Hinged coverplates can be equipped with 3 point latches per customer option and additional cost. Front doors are equipped with 3 point latch standard.
6. As standard, buildings are equipped with strip heaters in each MC equip bay to prevent condensation. Each bay has 3 strip heaters installed for a total wattage of 500watts. The strip heaters in each cell are controlled by a thermostat in that cell.

REV.	C. R.	DATE	BY	DO NOT SCALE - WORK TO DIMENSIONS									
				STANDARD TOLERANCE UNLESS OTHERWISE SPECIFIED	LINEAL DIM.		TWO PLACE DECIMAL $\pm .020$						
							THREE PLACE DECIMAL $\pm .005$						
					HOLE DIA.		FRACTIONAL, LETTER, OR NUMBERED DRILL $\pm .004$						
							THREE PLACE DECIMAL $\pm .002$ $- .002$						
					ANGLE		DIMENSIONED $\pm 1^\circ$ UNDIMENSIONED $90^\circ \pm 2^\circ$						
				SCALE	DRAWN JACKS	CHKD.	DATE	C. R.		 SQUARE D COMPANY BARKELEW PLANT MIDDLETOWN, OHIO USA			
				TITLE									
				USED ON									
PRINTS TO				RAWSTOCK					PBD-4 1600 Page 4 of 6				

M/L SELECTION GUIDE 15KV METAL CLAD NON-WALK-IN ENCLOSURE

#	WAYS	SIDE FRAME ASSEMBLY	QTY	REAR FRAME ROOF PAN & FRONT FRAME ASSEMBLY**	QTY	TRIM ASSEMBLY	QTY	BASE MOUNT	QTY	DOOR STAY ASSEMBLY	QTY	BREAKER COMP'T. STREET METAL ASSEMBLY	QTY	INSTRUMENT COMP'T. STREET METAL ASSEMBLY	QTY
1		44060-841-50	1	44060-842-50	1	44060-843-50	1	44060-850-50	1	44060-809-50	1	44060-826-50	1	44060-845-50	1
2		44060-841-50	1	44060-842-50	2	44060-843-51	1	44060-850-50	1	44060-809-50	2	44060-826-50	2	44060-845-50	2
3		44060-841-50	1	44060-842-50	3	44060-843-52	1	44060-850-50	2	44060-809-50	3	44060-826-50	3	44060-845-50	3
4		44060-841-50	1	44060-842-50	4	44060-843-53	1	44060-825-50	1	44060-809-50	4	44060-826-50	4	44060-845-50	4
5		44060-841-50	1	44060-842-50	5	44060-843-54	1	44060-825-50	1	44060-809-50	5	44060-826-50	5	44060-845-50	5
6		44060-841-50	1	44060-842-50	6	44060-843-55	1	44060-625-50	1	44060-809-50	6	44060-826-50	6	44060-845-50	6
7		44060-841-50	1	44060-842-50	7	44060-843-56	1	44060-625-50	1	44060-809-50	7	44060-826-50	7	44060-845-50	7

** OPTIONAL 3 PT. LATCH ASSY'S.
QTY. TO BE AS REQ'D IN PLACE OF
BWB: REAR FRAME ASSY'S.

REAR FRAME, ROOF PAN & FRONT
FRAME ASSY WITH 3 PT. LATCH -
44060-554-50. (B)

A CR-PED-010 10-18-76 *203*

M/L SELECTION GUIDE 5 KV METAL CLAD NON WALK IN ENCLOSURE

QTY	SIDE FRAME ASSEMBLY	REAR FRAME ROOF PAN & FRONT FRAME ASSEMBLY **	TRIM ASSEMBLY	BASE WELDMENT	DOOR STAY ASSEMBLY	REFRACER COMP'T. SHEET METAL ASSEMBLY	QTY	INSTRUMENT COMP'T. SHEET METAL ASSEMBLY	QTY
1	44060-841-50	1 44060-842-51	1 44060-844-50	1 44060-850-50	1 44060-809-51	1 44060-826-51	1	1 44060-845-51	1
2	44060-841-50	1 44060-842-51	1 44060-844-51	1 44060-850-51	1 44060-809-51	1 44060-826-51	2	1 44060-845-51	2
3	44060-841-50	1 44060-842-51	1 44060-844-52	1 44060-850-52	1 44060-809-51	1 44060-826-51	3	1 44060-845-51	3
4	44060-841-50	1 44060-842-51	1 44060-844-53	1 44060-850-53	1 44060-809-51	1 44060-826-51	4	1 44060-845-51	4
5	44060-841-50	1 44060-842-51	1 44060-844-54	1 44060-625-50	1 44060-809-51	1 44060-826-51	5	1 44060-845-51	5
6	44060-841-50	1 44060-842-51	1 44060-844-55	1 44060-625-51	1 44060-809-51	1 44060-826-51	6	1 44060-845-51	6
7	44060-841-50	1 44060-842-51	1 44060-844-56	1 44060-625-52	1 44060-809-51	1 44060-826-51	7	1 44060-845-51	7
8	44060-841-50	1 44060-842-51	1 44060-844-57	1 44060-625-53	1 44060-809-51	1 44060-826-51	8	1 44060-845-51	8
9	44060-841-50	1 44060-842-51	1 44060-844-58	1 44060-625-54	1 44060-809-51	1 44060-826-51	9	1 44060-845-51	9
10	44060-841-50	1 44060-842-51	1 44060-844-59	1 44060-625-55	1 44060-809-51	1 44060-826-51	10	1 44060-845-51	10

** OPTIONAL 3 PT. LATCH ASSY'S.
QTY. TO BE AS REQ'D IN PLACE
OF STD. REAR FRAME ASSYS.

REAR FRAME, ROOF PAN & FRONT
FRAME ASSY. WITH 3 PT. LATCH-
44060-553-50. (A)

A CR-P80-010 10-18-76 *ES*

2 1/2 P. 8210 10-18-76

BLDGS:

- 10 bays - 5kV
7 bays - 15kV

Each shipping section can be moved into place with a crane without interfering with other shipping sections.

4. 120 volt outlets are supplied 1 per every 3 bays on the breaker compartment wall.
5. Hinged coverplates are standard at rear of each MC equipment bay. Plates are held by tamperproof hardware. Tamperproof wrench is supplied with the building. Hinged coverplates can be equipped with 2 point latches per customer option and additional cost. Front doors are equipped with 3 point latch standard.
6. As standard, buildings are equipped with strip heaters in each MC equip bay to prevent condensation. Each bay has 3 strip heaters installed for a total wattage of 375 watts. The strip heaters in each cell are controlled by a thermostat in that cell.
7. Removable steel coverplates over conduit entrance areas are provided as standard.

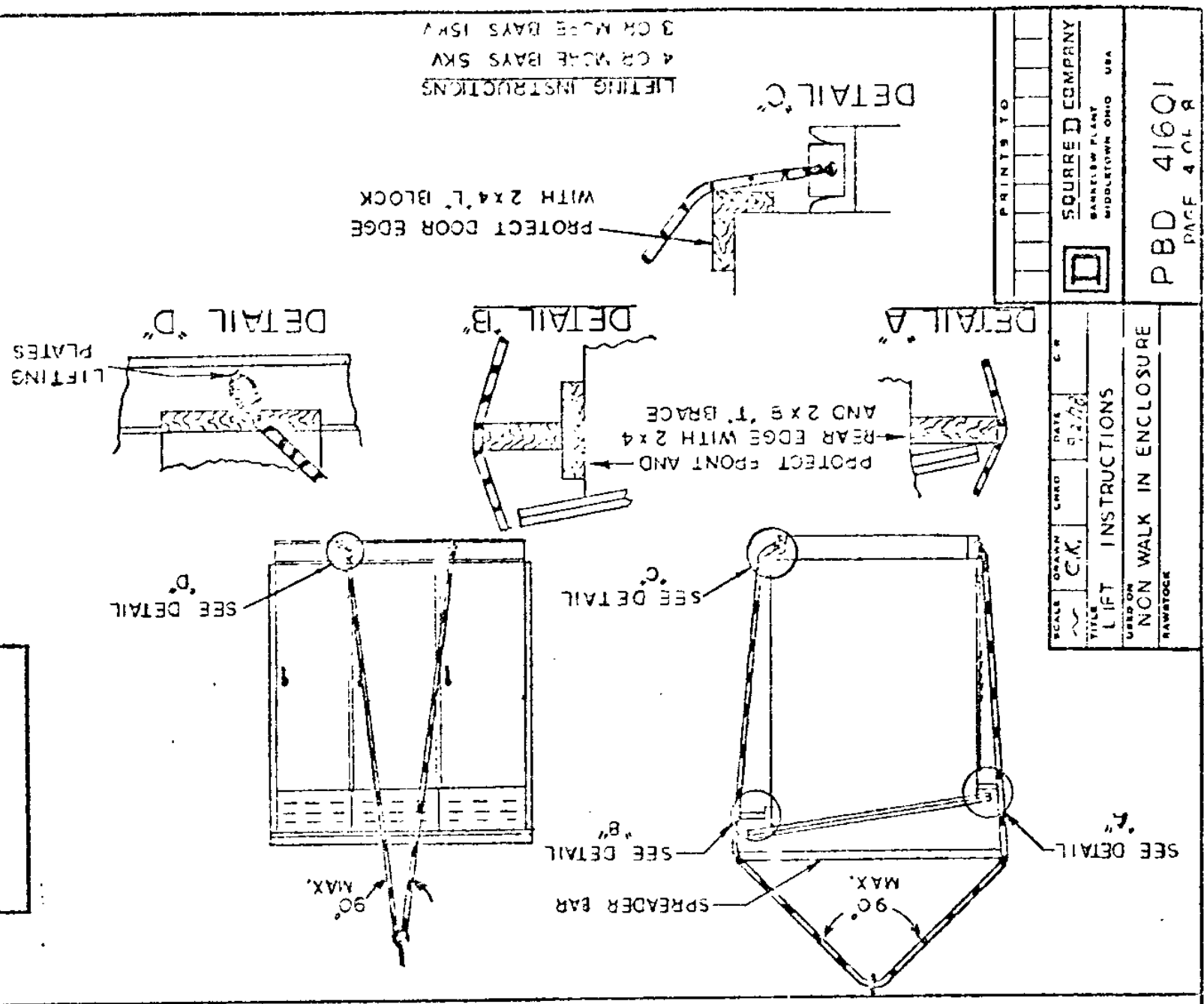
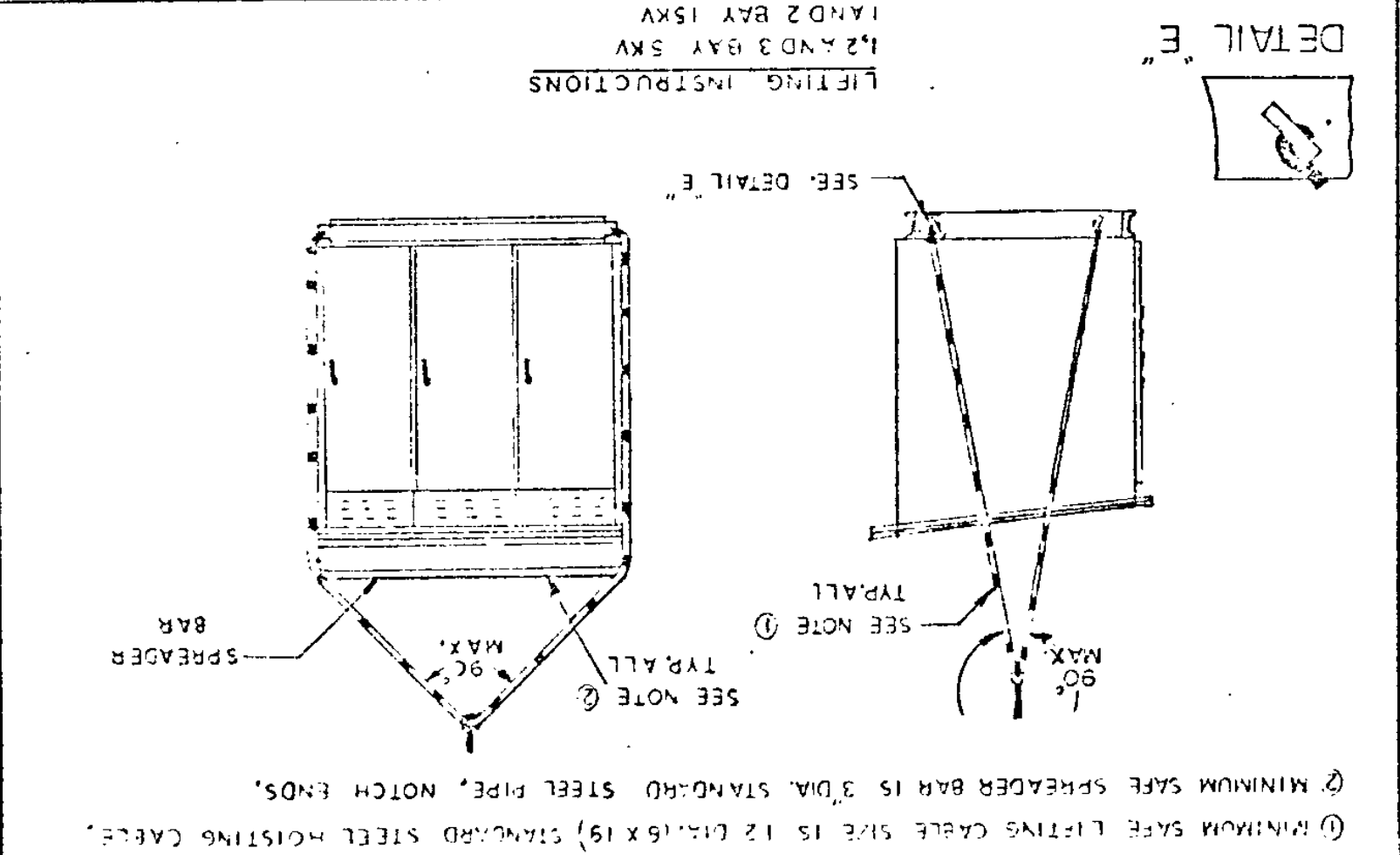
REV.	C. R.	DATE	BY	DO NOT SCALE - WORK TO DIMENSIONS									
				STANDARD TOLERANCE UNLESS OTHERWISE SPECIFIED	LINEAL DIM.		TWO PLACE DECIMAL $\pm .020$ THREE PLACE DECIMAL $\pm .005$						
					HOLE DIA.		FRACTIONAL, LETTER, OR NUMBERED DRILL $+ .004$ THREE PLACE DECIMAL $\pm .002$ $- .002$						
					ANGLE		DIMENSIONED $\pm 1^\circ$ UNDIMENSIONED $90^\circ \pm 2^\circ$						
				SCALE	DRAWN DAG	CHKD.	DATE 8-16-78	C. R.	 SQUARE D COMPANY BARKELEW PLANT MIDDLETOWN, OHIO USA				
				TITLE MC NEMA 3R NON WALK-IN ENCLOSURE									
				USED ON G-14					PBD-41101 Pg. 1 of 8				
				RAWSTOCK									
PRINTS TO													
X													
A	B	C	D	E	F	G							

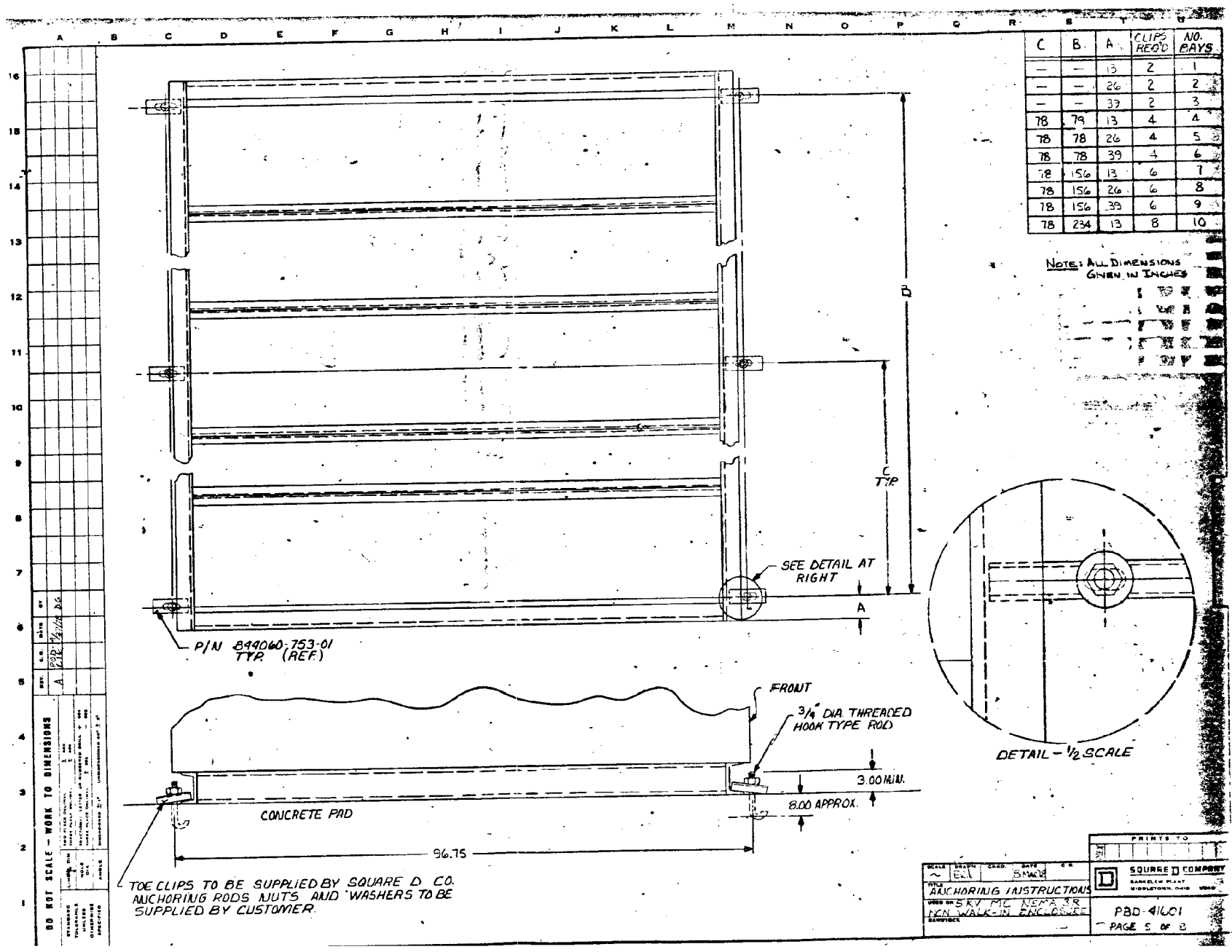
SWITCHGEAR DESCRIPTION		ENCLOSURE DATA NON-WALK IN		
VOLTAGE	NUMBER OF BAYS	SHIPPING SECTION	WEIGHT OF SHIPPING SECTIONS* (LB.)	ENCLOSURE - LENGTH (INCHES)
5kV	1 TO 10	SINGLE SHIPPING SECTION	600 + (2000 X NUMBER OF BAYS)	4. + (26. X NUMBER OF BAYS)
	11 OR MORE	SHIPPING SECTIONS ARE SPLIT EVERY 10 BAYS MAXIMUM. DIVIDE THE NUMBER OF BAYS BY 10, ROUND UP TO THE NEAREST WHOLE NUMBER.	EACH END SECTION = 300 + (2000 X NUMBER OF BAYS IN THAT SECTION). EACH MIDDLE SECTION = 2000 X NUMBER OF BAYS IN THAT SECTION.	
15kV	1 TO 7	SINGLE SHIPPING SECTION	600 + (2200 X NUMBER OF BAYS)	4. + (36. X NUMBER OF BAYS)
	8 OR MORE	SHIPPING SECTIONS ARE SPLIT EVERY 7 BAYS MAXIMUM. DIVIDE THE NUMBER OF BAYS BY 7, ROUND UP TO THE NEAREST WHOLE NUMBER.	EACH END SECTION = 300 + 2200 X NUMBER OF BAYS IN THAT SECTION). EACH MIDDLE SECTION = 2200 X NUMBER OF BAYS IN THAT SECTION.	

*INCLUDES WEIGHT OF SWITCHGEAR BUT DOES NOT INCLUDE WEIGHT OF BREAKERS.

DO NOT SCALE - WORK TO DIMENSIONS									
REV	DATE	BY	CHK	DATE	BY	CHK	DATE	BY	CHK
1	10/1/78	WJ							
2	10/1/78	WJ							
3	10/1/78	WJ							
4	10/1/78	WJ							
5	10/1/78	WJ							
6	10/1/78	WJ							
7	10/1/78	WJ							
8	10/1/78	WJ							
9	10/1/78	WJ							
10	10/1/78	WJ							

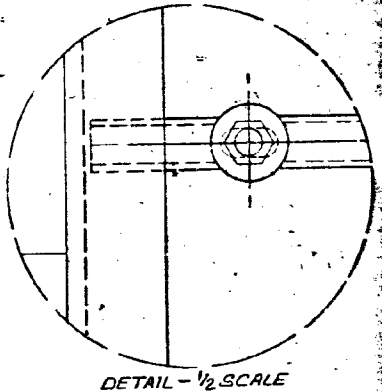
① MINIMUM SAFE LIFTING CABLE SIZE IS 12 DIA (6 X 19) STANDARD STEEL HOISTING CABLE.
 ② MINIMUM SAFE SPREADER BAR IS 3" DIA. STANDARD STEEL PIPE, NOTCH ENDS.





C	B	A	CLIPS REQD	NO. BAYS
—	—	13	2	1
—	—	26	2	2
—	—	39	2	3
78	79	13	4	4
78	78	26	4	5
78	78	39	4	6
78	156	13	6	7
78	156	26	6	8
78	156	39	6	9
78	234	13	8	10

NOTE: ALL DIMENSIONS GIVEN IN INCHES



SCALE: 1/4" = 1'-0"		DATE: 5/8/88		BY: S.M.C.	
ANCHORING INSTRUCTIONS		SOURCE: COMPANY		DRAWN BY: S.M.C.	
FOR SKY MC NEMA SR		PBD-41001		PAGE 5 OF 8	
FOR WALK-IN ENCLOSURE					

M/L SELECTION GUIDE 15KV METAL CLAD NON-WALK-IN ENCLOSURE

#	SIDE FRAME ASSEMBLY	QTY	REAR FRAME ROOF PAN & CLUT FRAME ASSEMBLY**	QTY	TRIM ASSEMBLY	QTY	BASE TRIDENT	QTY	DOOR STAY ASSEMBLY	QTY	BREAKER COMB. T. SHEET METAL ASSEMBLY	QTY	INSTANT KIT COMB. T. SHEET METAL ASSEMBLY	QTY
2	44061-316-50	1	44061-318-50	1	44061-319-50	1	44061-177-50	1	44060-809-50	1	44060-826-50	1	44060-845-50	1
2	44061-316-50	1	44061-318-50	2	44061-319-51	1	44061-177-51	1	44060-809-50	2	44060-826-50	2	44060-845-50	2
3	44061-316-50	1	44061-318-50	3	44061-319-52	1	44061-172-51	1	44060-809-50	3	44060-826-50	3	44060-845-50	3
4	44061-316-50	1	44061-318-50	4	44061-319-53	1	44061-172-56	1	44060-809-50	4	44060-826-50	4	44060-845-50	4
5	44061-316-50	1	44061-318-50	5	44061-319-54	1	44061-172-57	1	44060-809-50	5	44060-826-50	5	44060-845-50	5
6	44061-316-50	1	44061-318-50	6	44061-319-55	1	44061-172-58	1	44060-809-50	6	44060-826-50	6	44060-845-50	6
7	44061-316-50	1	44061-318-50	7	44061-319-56	1	44061-172-59	1	44060-809-50	7	44060-826-50	7	44060-845-50	7

** OPTIONAL 3 PT. LATCH ASSY'S.
QTY. TO BE AS REQ'D. IN PLACE OF
'HTP; REAR FRAME ASSY'S;

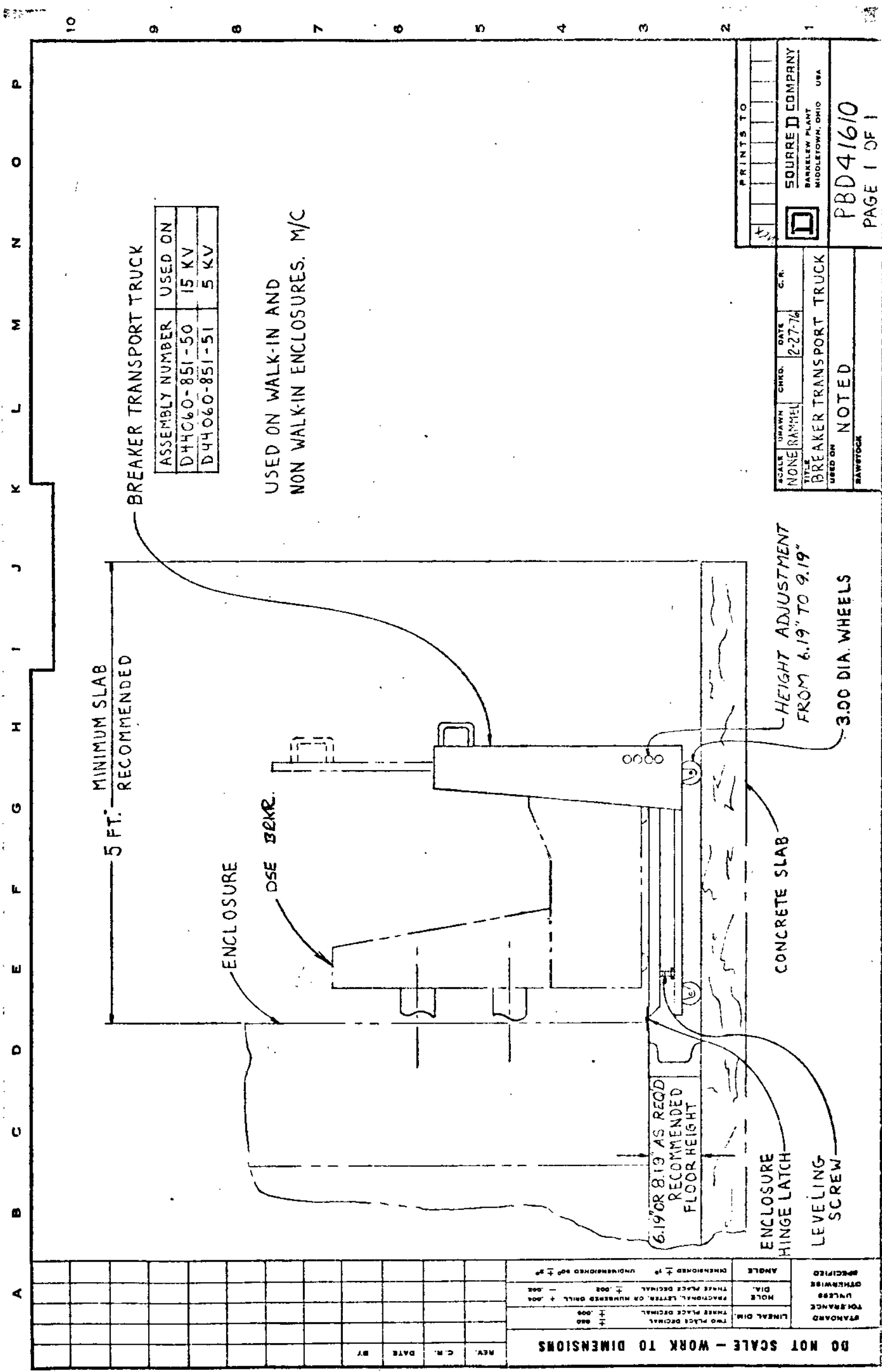
REAR FRAME, ROOF PAN & FRONT
FRAME ASSY WITH 3 PT. LATCH -
44061-337-50.

N/L SELECTION GUIDE 5 KV METAL CLAD NON WALK IN ENCLOSURE

	SIDE FRAME ASSEMBLY	QTY	REAR FRAME ROOF PAN & FRONT FRAME ASSEMBLY **	QTY	TRIM ASSEMBLY	QTY	BASE ELEMENT	QTY	DOOR STAY ASSEMBLY	QTY	BRACKET CONSOLE STAY ASSEMBLY	QTY	INDUSTRY ONE COMP. PT. REAR PT. OPTIONAL NO. 1 PT.	
1	44061-316-50	1	44061-317-50	1	44061-320-50	1	44061-177-53	1	44060-809-51	1	44060-826-51	1	44060-845-51	1
2	44061-316-50	1	44061-317-50	2	44061-320-51	1	44061-177-54	1	44060-809-51	2	44060-826-51	2	44060-845-51	2
3	44061-316-50	1	44061-317-50	3	44061-320-52	1	44061-177-55	1	44060-809-51	3	44060-826-51	3	44060-845-51	3
4	44061-316-50	1	44061-317-50	4	44061-320-53	1	44061-172-50	2	44060-809-51	4	44060-826-51	4	44060-845-51	4
5	44061-316-50	1	44061-317-50	5	44061-320-54	1	44061-172-50	1	44060-809-51	5	44060-826-51	5	44060-845-51	5
6	44061-316-50	1	44061-317-50	6	44061-320-55	1	44061-172-51	1	44060-809-51	6	44060-826-51	6	44060-845-51	6
7	44061-316-50	1	44061-317-50	7	44061-320-56	1	44061-172-52	1	44060-809-51	7	44060-826-51	7	44060-845-51	7
8	44061-316-50	1	44061-317-50	8	44061-320-57	1	44061-172-53	1	44060-809-51	8	44060-826-51	8	44060-845-51	8
9	44061-316-50	1	44061-317-50	9	44061-320-58	1	44061-172-54	1	44060-809-51	9	44060-826-51	9	44060-845-51	9
10	44061-316-50	1	44061-317-50	10	44061-320-59	1	44061-172-55	1	44060-809-51	10	44060-826-51	10	44060-845-51	10

** OPTIONAL 3 PT. LATCH ASSY'S.
QTY. TO BE AS REQ'D IN PLACE
OF STD. REAR FRAME ASSYS.

REAR FRAME, ROOF PAN & FRONT
FRAME ASSY. WITH 3 PT. LATCH-
44061-316-50.



ASSEMBLY NUMBER	USED ON
D44060-851-50	15 KV
D44060-851-51	5 KV

USED ON WALK-IN AND
NON WALK-IN ENCLOSURES. M/C

DO NOT SCALE - WORK TO DIMENSIONS				TOLERANCES UNLESS OTHERWISE SPECIFIED	
REV.	C.R.	DATE	BY	LINEAL DIM.	ANGLES
				TWO PLACE DECIMAL ± .005	DIMENSIONED ± .01
				FRACTIONAL LETTER OR NUMBERED DIM ± .005	UNDIMENSIONED ± .01

SCALE	DRAWN	CHKD.	DATE	C.R.	PRINTS TO	
NONE	RAMMEL		2-27-76			
TITLE	BREAKER TRANSPORT TRUCK					
USED ON	NOTED					
DRAWN	RAWSTOCK					
SOURCE D COMPANY BARKELEY PLANT MIDDLETOWN, OHIO USA				PBD41610 PAGE 1 OF 1		

This PBD defines the basic foundation requirements for the Square D outdoor buildings. The concrete pad, the footer, and the pier are discussed and loading data are given.

There are three basic foundation types that may be used to support the Square D outdoor building. These are the concrete pad, the footer and the pier. All three are effective supports and may be used to support the Square D outdoor building but each must be properly designed to transmit the load of the building to the soil under the conditions of the soil at the jobsite. Generally accepted design and construction practices in the area of the installation should be used.

The design of the foundations and their construction details are left to the customer. Square D only specifies the magnitude and location of the loads that the foundations must support.

The specified loads take into account such things as a snow loading on the roof of the building of three feet of wet snow (30 lbs/ft), the deflection of the base channels under the conditions of installation, and full equipment in each bay.

The top surface of all the foundations must be level to within one fourth of an inch over the entire top surface of the foundation to insure that the building is not twisted at installation. Use shims as necessary to bring building into as perfect a level as possible.

Anchor bolts are to be installed where indicated. The anchor bolts are to be customer supplied. Square D will supply the toe clips required to clamp the building to the foundation.

Refer to PBD 41550 for details on the walk-in building and PBD 41600 for details on the non walk-in building.

The same basic principles apply to both types of buildings.

Each foundation type will be discussed individually.

The base channel of the building makes contact with the foundation only around the periphery of each shipping section and this fact must be kept in mind when designing the foundation.

REV.	C. R.	DATE	BY	DO NOT SCALE - WORK TO DIMENSIONS									
				STANDARD TOLERANCE UNLESS OTHERWISE SPECIFIED	LINEAL DIM.		TWO PLACE DECIMAL $\pm .020$ THREE PLACE DECIMAL $\pm .009$						
					HOLE DIA.		FRACTIONAL, LETTER, OR NUMBERED DRILL $\pm .004$ THREE PLACE DECIMAL $\pm .002$ $- .008$						
					ANGLE		DIMENSIONED $\pm 10^\circ$ UNDIMENSIONED $90^\circ \pm 2^\circ$						
				SCALE	DRAWN EBZ	CHKD.	DATE 10-5-76	C. R. CR-PBD -010					
				TITLE Foundation Requirements for the WOODEN Square D Walk-In and Non Walk-In WOODEN Outdoor Buildings					 SQUARE D COMPANY BARKELEW PLANT MIDDLETOWN, OHIO USA				
PRINTS TO													
									PBD 41650 Page 1 of 9				

FOOTERS

Footers may run the length or width of the outdoor building. Each type of footer requires different design considerations.

Footers that are run the length of the building should be designed to support the main channels that run the length of the outdoor building. The location of these is indicated in Figures 1&2. Note that there are three main channel areas that require support. The footers should be a minimum of ten inches wide for the side channels and a minimum of fourteen inches wide for the center channels. Anchor bolts should be installed as recommended in PBD 41550 and PBD 41600. Room for the entrance of conduit must be provided as indicated in Figures 1 and 2. The footer must be designed to support a load of 1,500 pounds per linear foot of contact of the base channel with the footer. Buildings that are shipped in one section do not require the center footer.

Footers that run the width of the building are located in the same locations as defined under "Piers" and must be designed to carry 20,000 pounds at each contact point of the base channel with the footer. The footer should be as wide as necessary to support the building but must be fourteen inches wide along shipping splits that involve the width of the building. Anchor bolts should be located where indicated under the "Piers" section along the footers.

REV.	C. R.	DATE	BY	DO NOT SCALE - WORK TO DIMENSIONS									
				STANDARD TOLERANCE UNLESS OTHERWISE SPECIFIED	LINEAL DIM.		TWO PLACE DECIMAL ± .020				C. R. CR-PBD -010		SQUARE D COMPANY BARKELEW PLANT MIDDLETOWN, OHIO USA
					HOLE DIA.		FRACTIONAL, LETTER, OR NUMBERED DRILL ± .004						
					ANGLE		DIMENSIONED ± 1°		UNDIMENSIONED 90° ± 2°				
				SCALE	DRAWN EBZ	CHKD.	DATE 10-5-76						
				TITLE Foundation Requirements for the									
				Square D Walk-In and Non Walk-In									
				Outdoor Buildings									
PRINTS TO													
MEX													
PBD 41650 Page 3 of 9													

A

B

C

D

E

F

G

PIERS

Piers used to support the outdoor building can be located up to eleven feet apart along the length of the building. This figure limits the maximum deflection of the base channel to a safe distance and provides a safety factor for the stress in the base channels also. They are to be located along the length of the building in sets of three across the width of the building. Refer to Figures 3, 4, and 5 for the recommended locations of the piers for the outdoor buildings. The middle pier is not required for buildings that are not split along the length of the building.

Figures 3 and 4 indicate the recommended locations for the minimum number of piers for each size building. These piers are always placed between the cells to minimize blocking of the conduit entrance area. Other pier spacing may be used provided the distance between the piers does not exceed the recommended eleven feet.

Piers located under the outer channels should be a minimum of ten inches in diameter or ten inches square at the contact surface with the building. Piers located along a shipping split should be a minimum of fourteen inches in diameter or fourteen inches square at the contact surface with the building. Anchor bolts are to be placed where indicated in Figure 5.

Each pier must be designed to support a load of 20,000 pounds and match this load to the soil conditions at the jobsite.

REV.	C.R.	DATE	BY	DO NOT SCALE - WORK TO DIMENSIONS					
				STANDARD TOLERANCE UNLESS OTHERWISE SPECIFIED	LINEAL DIM.	TWO PLACE DECIMAL $\pm .020$ THREE PLACE DECIMAL $\pm .005$			
					HOLE DIA.	FRACTIONAL, LETTER, OR NUMBERED DRILL $+ .004$ THREE PLACE DECIMAL $\pm .002$ $- .002$			
					ANGLE	DIMENSIONED $\pm 1^\circ$ UNDIMENSIONED $90^\circ \pm 2^\circ$			
				SCALE	DRAWN	CHKD.	DATE	C.R.	 SQUARE D COMPANY BARKELEW PLANT MIDDLETOWN, OHIO USA
					EBZ		10-5-76	CR-PBD -O/D	
				TITLE Foundation Requirements for the Square D Walk-In and Non Walk-In Outdoor Buildings					
PRINTS TO				PBD 41650 Page 4 of 9					

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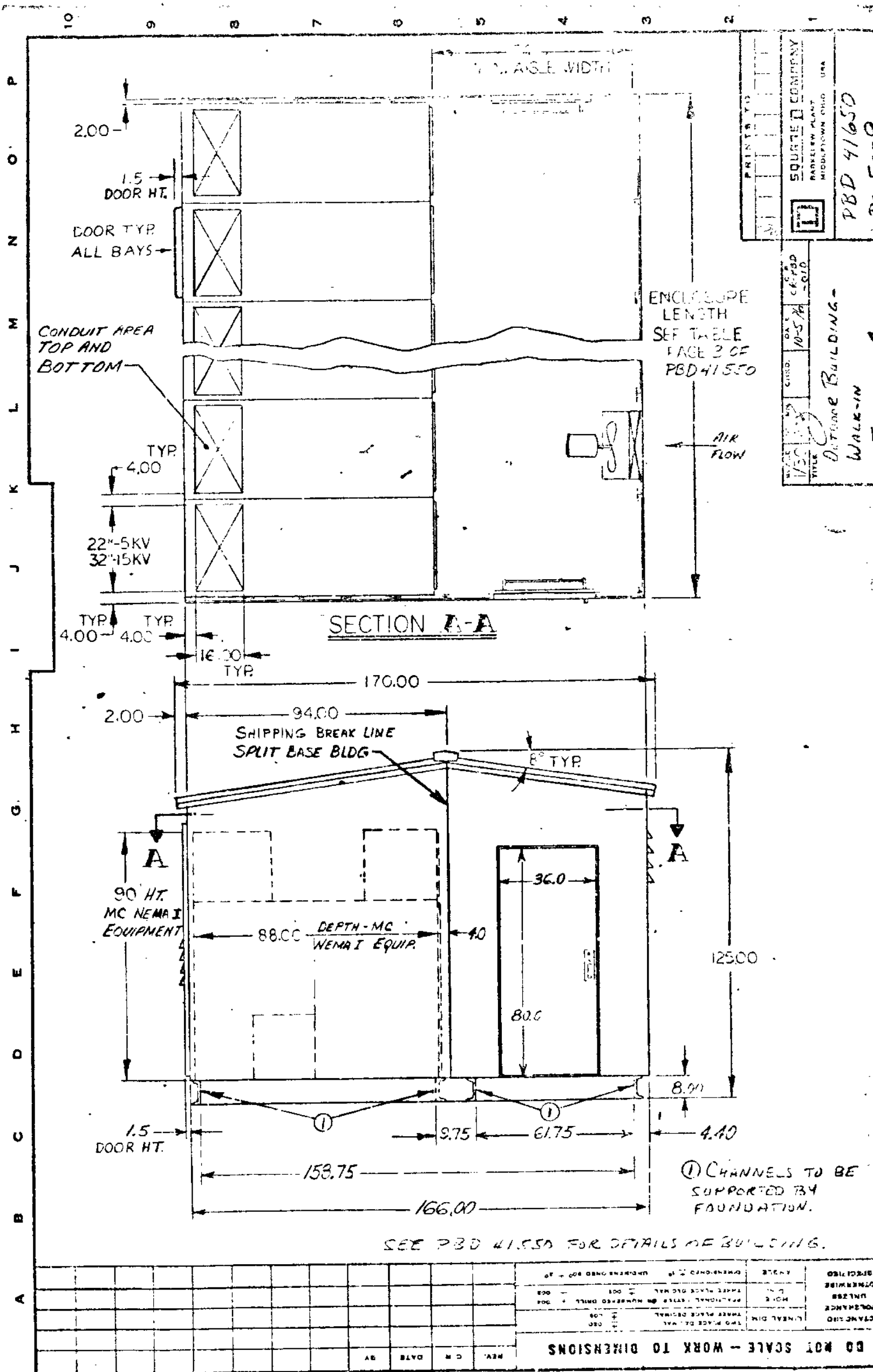
C

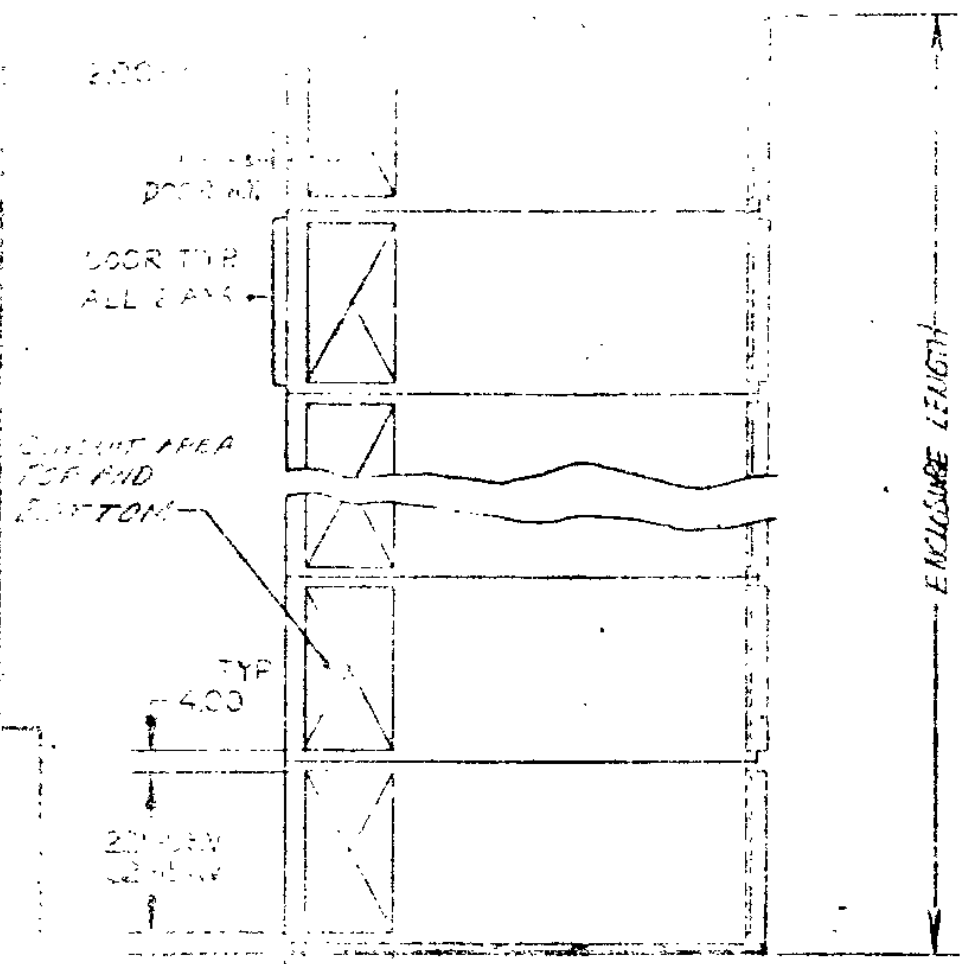
D

E

F

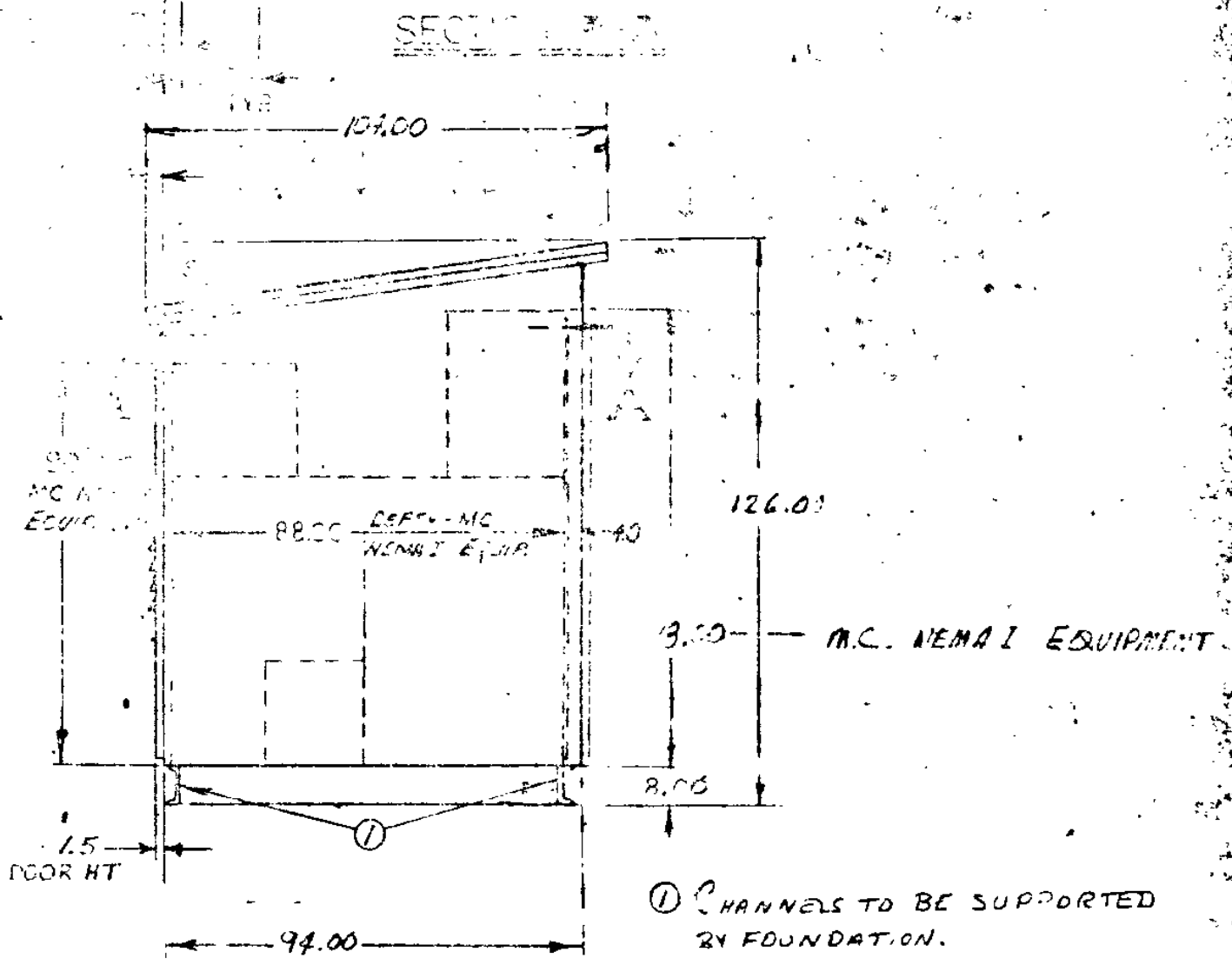
G





SEE TABLE PAGE 13
OF PBD 41600

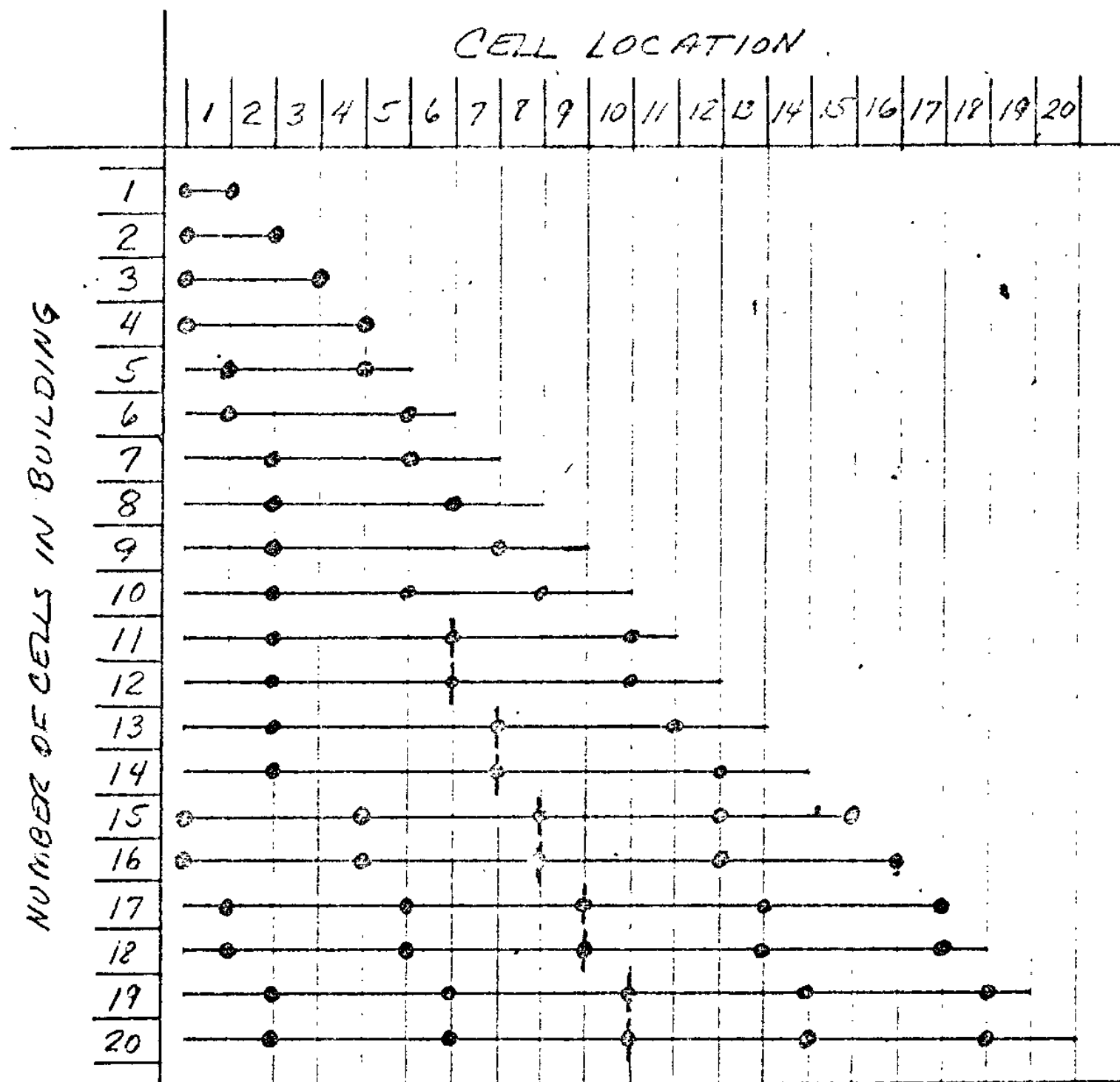
PBD 41630
OUTDOOR BUILDING
NON WALK-IN



SEE PBD 41600 FOR DETAIL OF BUILDING

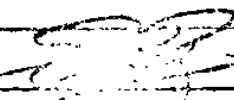
NO.	DESCRIPTION	QTY	UNIT	AMOUNT
100	ENCLOSURE	1	SQ. FT.	104.00
101	ENCLOSURE	1	SQ. FT.	126.00
102	ENCLOSURE	1	SQ. FT.	94.00
103	ENCLOSURE	1	SQ. FT.	88.00
104	ENCLOSURE	1	SQ. FT.	8.00
105	ENCLOSURE	1	SQ. FT.	13.00
106	ENCLOSURE	1	SQ. FT.	1.50
107	ENCLOSURE	1	SQ. FT.	0.50
108	ENCLOSURE	1	SQ. FT.	0.50
109	ENCLOSURE	1	SQ. FT.	0.50
110	ENCLOSURE	1	SQ. FT.	0.50
111	ENCLOSURE	1	SQ. FT.	0.50
112	ENCLOSURE	1	SQ. FT.	0.50
113	ENCLOSURE	1	SQ. FT.	0.50
114	ENCLOSURE	1	SQ. FT.	0.50
115	ENCLOSURE	1	SQ. FT.	0.50
116	ENCLOSURE	1	SQ. FT.	0.50
117	ENCLOSURE	1	SQ. FT.	0.50
118	ENCLOSURE	1	SQ. FT.	0.50
119	ENCLOSURE	1	SQ. FT.	0.50
120	ENCLOSURE	1	SQ. FT.	0.50

FIGURE 3
RECOMMENDED PIER LOCATIONS FOR THE
SQUARE D OUTDOOR BUILDINGS FOR THE
26" CELL WIDTH (5KV).



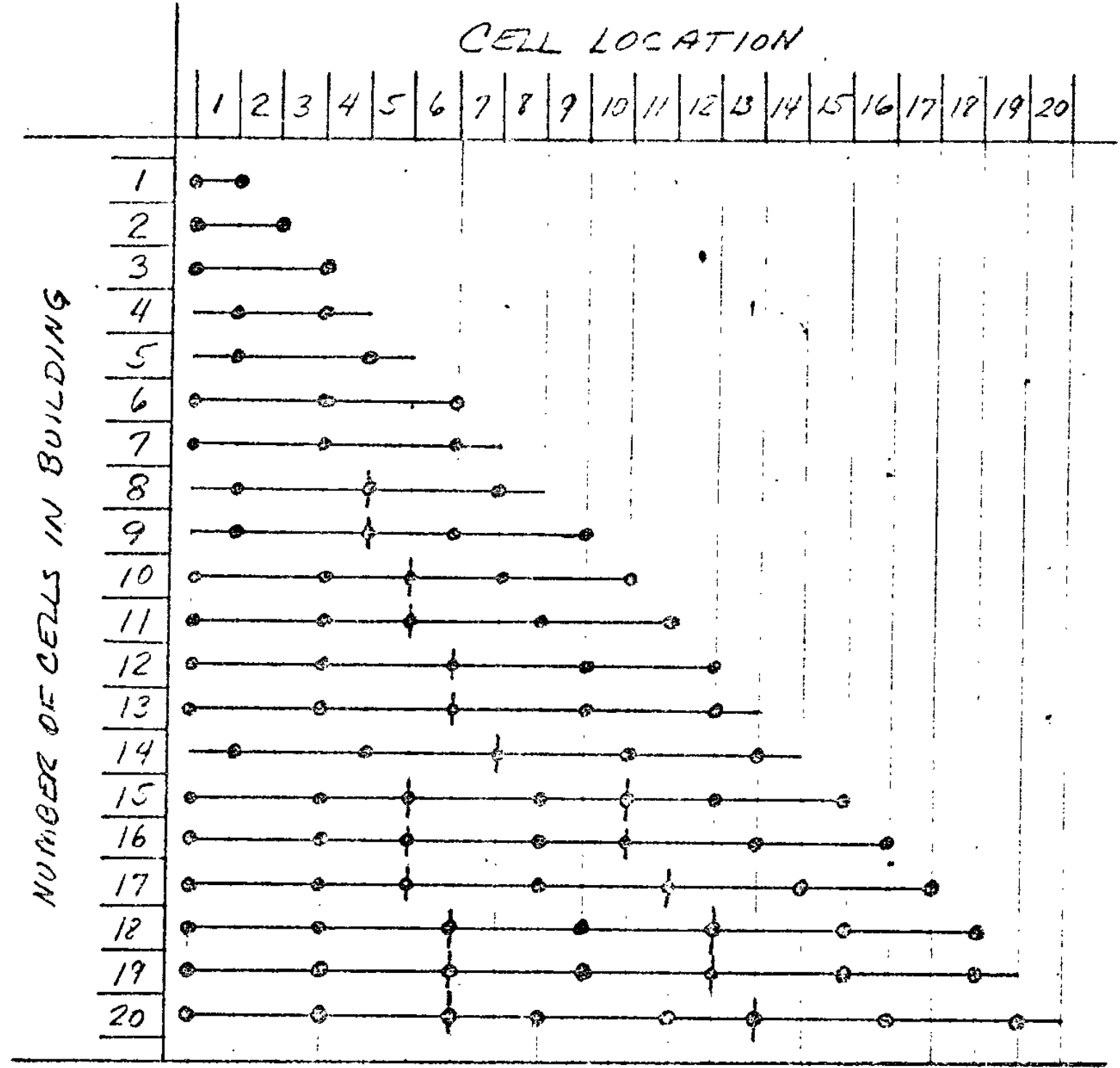
- NOTES: ① ——— INDICATES A SHIPPING SPLIT ALONG THE WIDTH OF THE BUILDING AND A PIER LOCATION.
② —●— INDICATES A PIER LOCATION.
③ REFER TO PBD 41550 AND PBD41600 FOR DETAILS OF SHIPPING SPLITS.

PIER LOCATION FOR OUTDOOR BUILDINGS — 26" CELL WIDTH (5KV)

				CR-PBD-010		SQUARE D COMPANY	SCALE
						BARKELEW PLANT	REF.
						MIDDLETOWN, OHIO	ASS'Y
				DR'N 	C'KD.	DRAWING NO.	
				DATE 4 Dec 76	DATE	PBD 41650	Page 7 of 9

SENT TO MEXICO 4/80

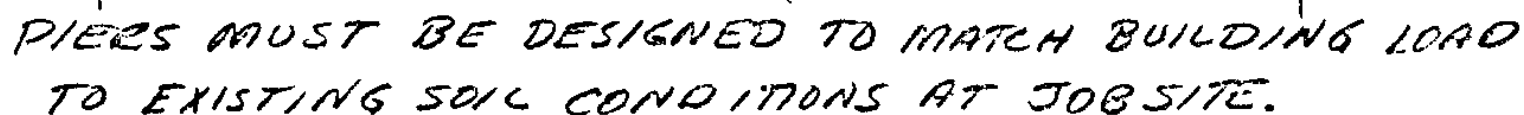
FIGURE 4
RECOMMENDED PIER LOCATIONS FOR THE
SQUARED OUTDOOR BUILDINGS FOR THE
36" CELL WIDTH (15KV).



- NOTES: ① —+— INDICATES A SHIPPING SPLIT ALONG THE WIDTH OF THE BUILDING AND A PIER LOCATION.
- ② —●— INDICATES A PIER LOCATION.
- ③ REFER TO PBD 41550 AND PBD 41600 FOR DETAILS OF SHIPPING SPLITS.

PIER LOCATION FOR OUTDOOR
 BUILDINGS — 36" CELL WIDTH (15KV)

	CR-PBD-010		SQUARED COMPANY		SCALE
			BARKELEW PLANT		REF.
			MIDDLETOWN, OHIO		ASS'Y
	DR'N <i>[Signature]</i>	C'KD.	DRAWING NO.		
	DATE <i>4/05/1976</i>	DATE	PBD 41650		Page 8 of 9



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REV.	C.R.	DATE	BY	DO NOT SCALE - WORK TO DIMENSIONS							
				STANDARD TOLERANCE UNLESS OTHERWISE SPECIFIED	LINEAL DIM.		TWO PLACE DECIMAL ± .030 THREE PLACE DECIMAL ± .008				
					HOLE DIA.		FRACTIONAL, LETTER, OR NUMBERED DRILL + .004 THREE PLACE DECIMAL ± .002 — .008				
					ANGLE		DIMENSIONED ± 1° UNDIMENSIONED 90° ± 2°				
					SCALE	DRAWN	CHKD.	DATE	C.R.	 SQUARE D COMPANY BARKELEW PLANT MIDDLETOWN, OHIO USA	
						BAG		3-20-78			
					TITLE Foundation Requirements for the						
PRINTS TO				USED ON Square D Walk-In and Non-Walk-In					PBD 41651 Pg. 1 of 9		
				RAW STOCK Outdoor Buildings							
A	B	C	D	E	F	G					

CONCRETE PAD

The concrete pad must be designed to support the building around the periphery of the shipping sections since these are the primary load bearing channels. The concrete pad must transmit the load of the building to the existing soil conditions at the jobsite. The building exerts a force of 1,500 pounds per linear foot of contact of the base channel with the concrete pad.

Provisions must be made for conduit entrance in the areas indicated in Figure 1 and Figure 2. The base channel contact area is also indicated in these figures.

Install anchor bolts as indicated in PBD 41551 and PBD 41601.

REV.	C. R.	DATE	BY	DO NOT SCALE - WORK TO DIMENSIONS									
				STANDARD TOLERANCE UNLESS OTHERWISE SPECIFIED	LINEAL DIM.	TWO PLACE DECIMAL $\pm .020$ THREE PLACE DECIMAL $\pm .005$							
					HOLE DIA.	FRACTIONAL, LETTER, OR NUMBERED DRILL $+ .004$ THREE PLACE DECIMAL $\pm .002$ $- .002$							
					ANGLE	DIMENSIONED ± 10 UNDIMENSIONED $80^\circ \pm 2^\circ$							
				SCALE	DRAWN	CHKD.	DATE	C. R.	 SQUIRE D COMPANY BARKELEW PLANT MIDDLETOWN, OHIO USA				
							3-27-7						
				TITLE									
				Simulation Requirements for the					PBD 41651 Pg. 2 of 9				
				USED ON									
				Square D Walk-In and Non Walk-In									
				RAWSTOCK									
				Outdoor outlines									

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PIERS

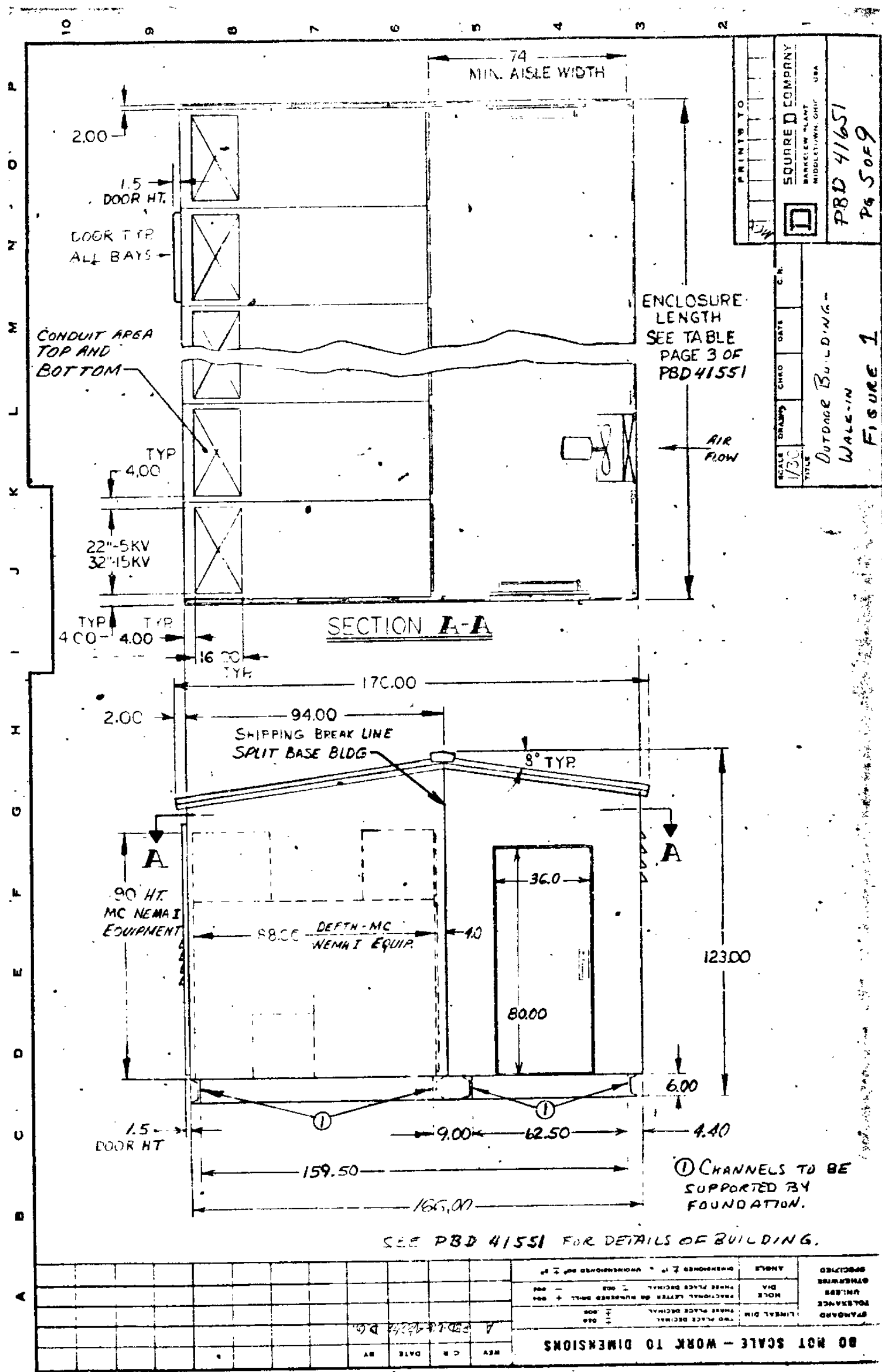
Piers used to support the outdoor building can be located up to eleven feet apart along the length of the building. This figure limits the maximum deflection of the base channel to a safe distance and provides a safety factor for the stress in the base channels also. They are to be located along the length of the building in sets of three across the width of the building. Refer to Figures 3, 4, and 5 for the recommended locations of the piers for the outdoor buildings. The middle pier is not required for buildings that are not split along the length of the building.

Figures 3 and 4 indicate the recommended locations for the minimum number of piers for each size building. These piers are always placed between the cells to minimize blocking of the conduit entrance area. Other pier spacing may be used provided the distance between the piers does not exceed the recommended eleven feet.

Piers located under the outer channels should be a minimum of ten inches in diameter or ten inches square at the contact surface with the building. Piers located along a shipping split should be a minimum of fourteen inches in diameter or fourteen inches square at the contact surface with the building. Anchor bolts are to be placed where indicated in Figure 5.

Each pier must be designed to support a load of 20,000 pounds and match this load to the soil conditions at the jobsite.

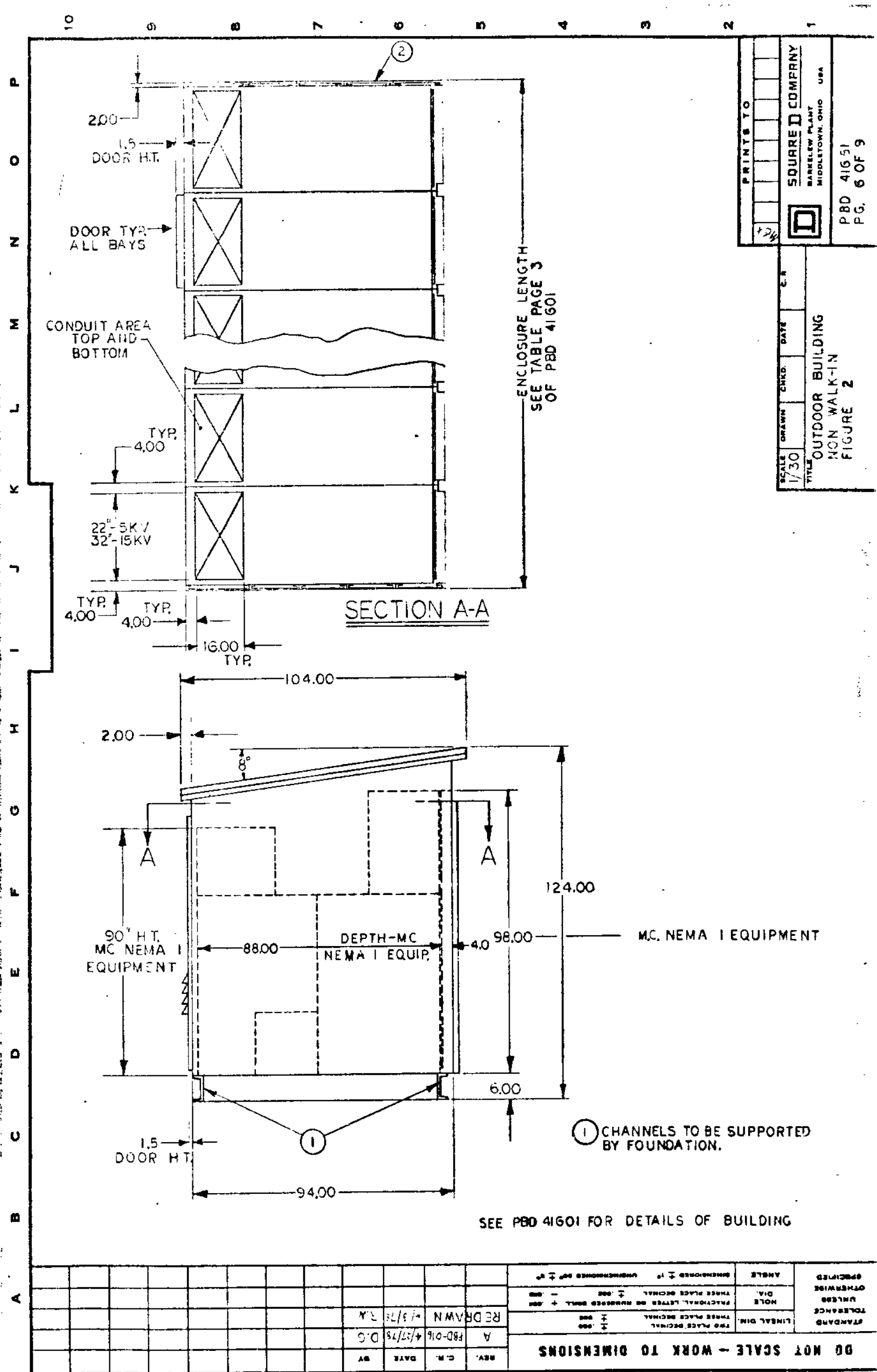
REV.	C. R.	DATE	BY	DO NOT SCALE - WORK TO DIMENSIONS									
				STANDARD TOLERANCE UNLESS OTHERWISE SPECIFIED	LINEAL DIM.	TWO PLACE DECIMAL ± .030 THREE PLACE DECIMAL ± .008							
					HOLE DIA.	FRACTIONAL, LETTER, OR NUMBERED DRILL + .004 THREE PLACE DECIMAL ± .002 - .002							
					ANGLE	DIMENSIONED ± 1° UNDIMENSIONED 90° ± 2°							
				SCALE	DRAWN	CHKD.	DATE	C. R.		SQUARE D COMPANY			
					DAG		3-20-78			BARKELEW PLANT MIDDLETOWN, OHIO USA			
				TITLE Foundation Requirements for the									
				USED ON Square D Walk-In and Non Walk-In									
				RAWSTOCK Outdoor Buildings									
PRINTS TO													
									PRD-41651 Page 4 of 9				
A	B	C	D	E	F	G							



PRINTED TO		SQUIRE D COMPANY	
SCALE 1/32"		BARKLEY PLANT	
DATE		MIDDLETOWN, OHIO	
C.R.		USA	
TITLE		PBD 41651	
OUTDOOR BUILDING -		Pg 5 of 9	
WALK-IN		FIGURE 1	

SEE PBD 41551 FOR DETAILS OF BUILDING.

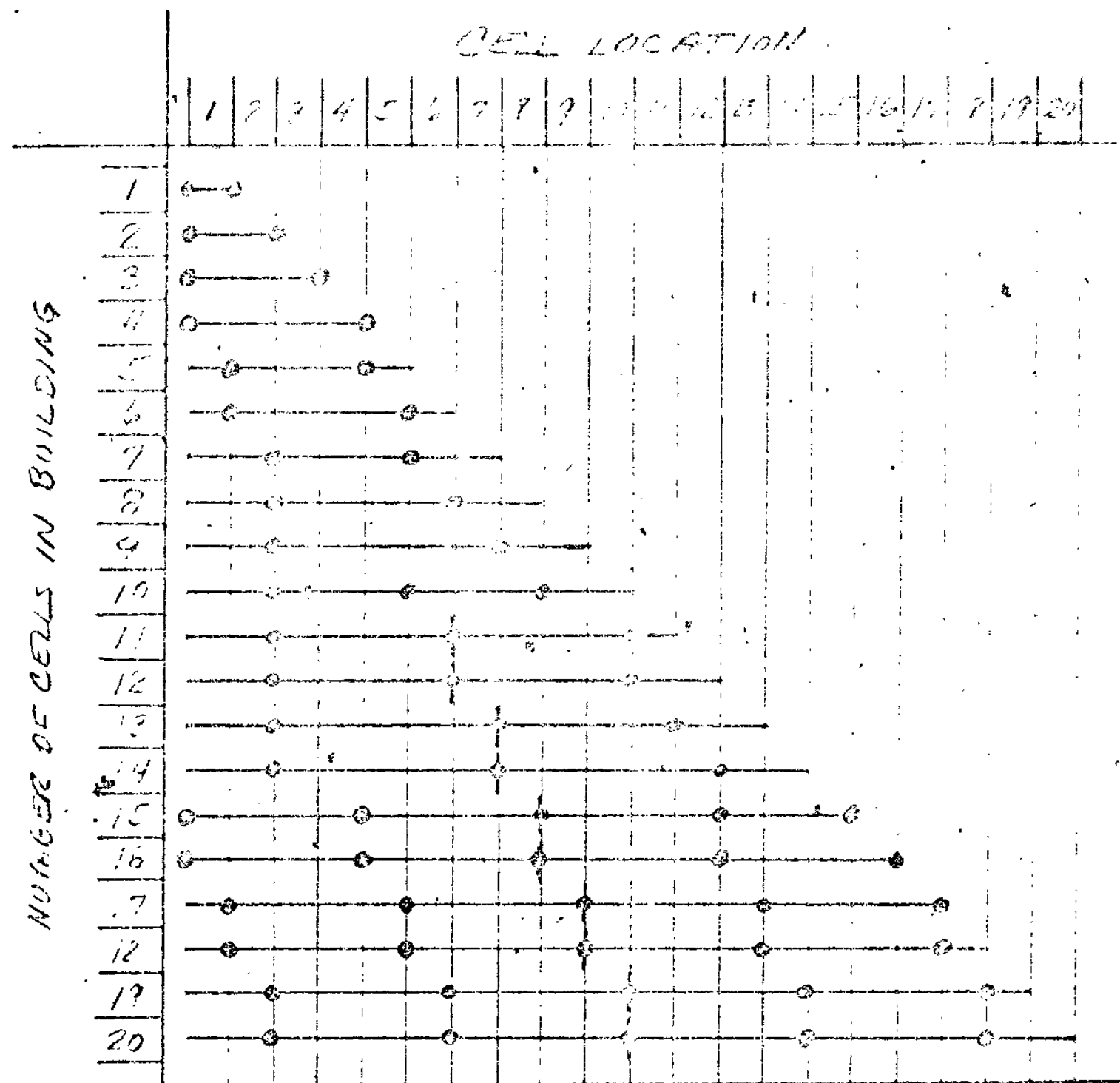
DO NOT SCALE - WORK TO DIMENSIONS



PRINTS TO		SCALE		DATE	CHKD.	DATE	CHKD.
		1/30					
SQUIRE COMPANY BARKEW PLANT MIDDLETOWN, OHIO USA				PBD 416 51 PG. 6 OF 9			
TITLE OUTDOOR BUILDING NON WALK-IN FIGURE 2							

DO NOT SCALE - WORK TO DIMENSIONS									
STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED		LINEAL DIM.		HOLE DIA.		ANGLE		SURF FINISH	
± .005		± .005		± .005		± .005		± .005	
± .005		± .005		± .005		± .005		± .005	
± .005		± .005		± .005		± .005		± .005	
± .005		± .005		± .005		± .005		± .005	
± .005		± .005		± .005		± .005		± .005	
± .005		± .005		± .005		± .005		± .005	
± .005		± .005		± .005		± .005		± .005	
± .005		± .005		± .005		± .005		± .005	

FIGURE 3
RECOMMENDED PIER LOCATIONS FOR THE
SQUARE D OUTDOOR BUILDINGS FOR THE
26" CELL WIDTH (5KV).



- NOTES: ① —|— INDICATES A SHIPPING SPLIT ALONG THE WIDTH OF THE BUILDING AND A PIER LOCATION.
 ② —●— INDICATES A PIER LOCATION.
 ③ REFER TO PED 41551 AND PED 41631 FOR DETAILS OF SHIPPING SPLITS.

PIER LOCATION FOR OUTDOOR
 BUILDINGS — 26" CELL WIDTH (5KV)

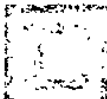
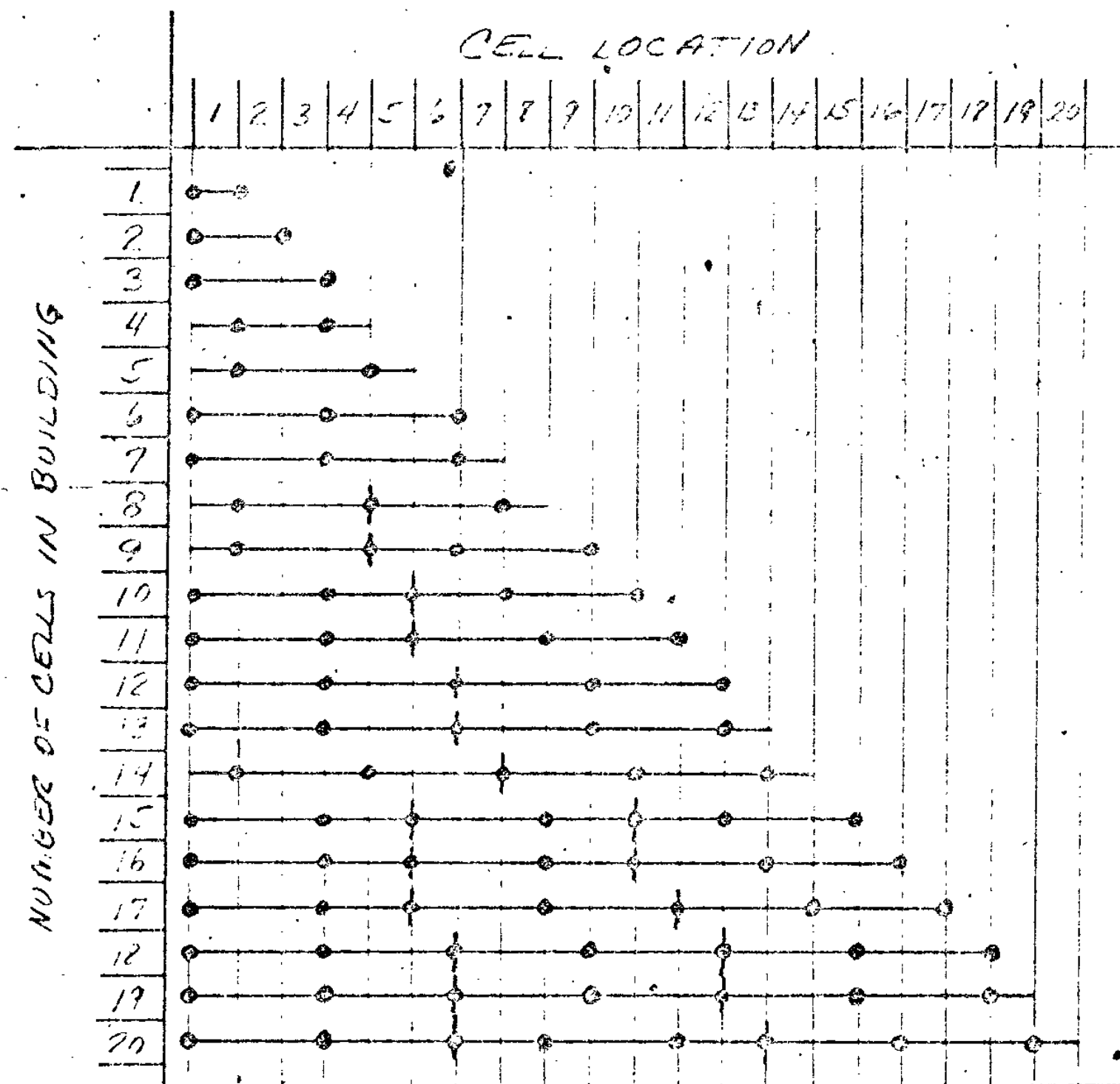
		CR-PED-010		BARKELEW PLANT MIDDLETOWN, OHIO	SCALE REF. ASSY
		DRN D.A.G. DATE 3-22-78	CYD. DATE	DRAWING NO. PED 41651	Page 7 of 9

FIGURE 4
RECOMMENDED PIER LOCATIONS FOR THE
SQUARED OUTDOOR BUILDINGS FOR THE
36" CELL WIDTH (15KV).



- NOTES: ① —+— INDICATES A SHIPPING SPLIT ALONG THE WIDTH OF THE BUILDING AND A PIER LOCATION.
 ② —•— INDICATES A PIER LOCATION.
 ③ REFER TO PBD 41551 AND PBD 41601 FOR DETAILS OF SHIPPING SPLITS.

PIER LOCATION FOR OUTDOOR
BUILDINGS — 36" CELL WIDTH (15KV)

CR-PBD-010

ENGINEERING DEPT.

SCALE

BARKELEW PLANT

REF.

HIOLESTOWN, OHIO

APPY

DR. DAG.

CRD.

DRAWING NO.

DATE 3-22-73

DATE

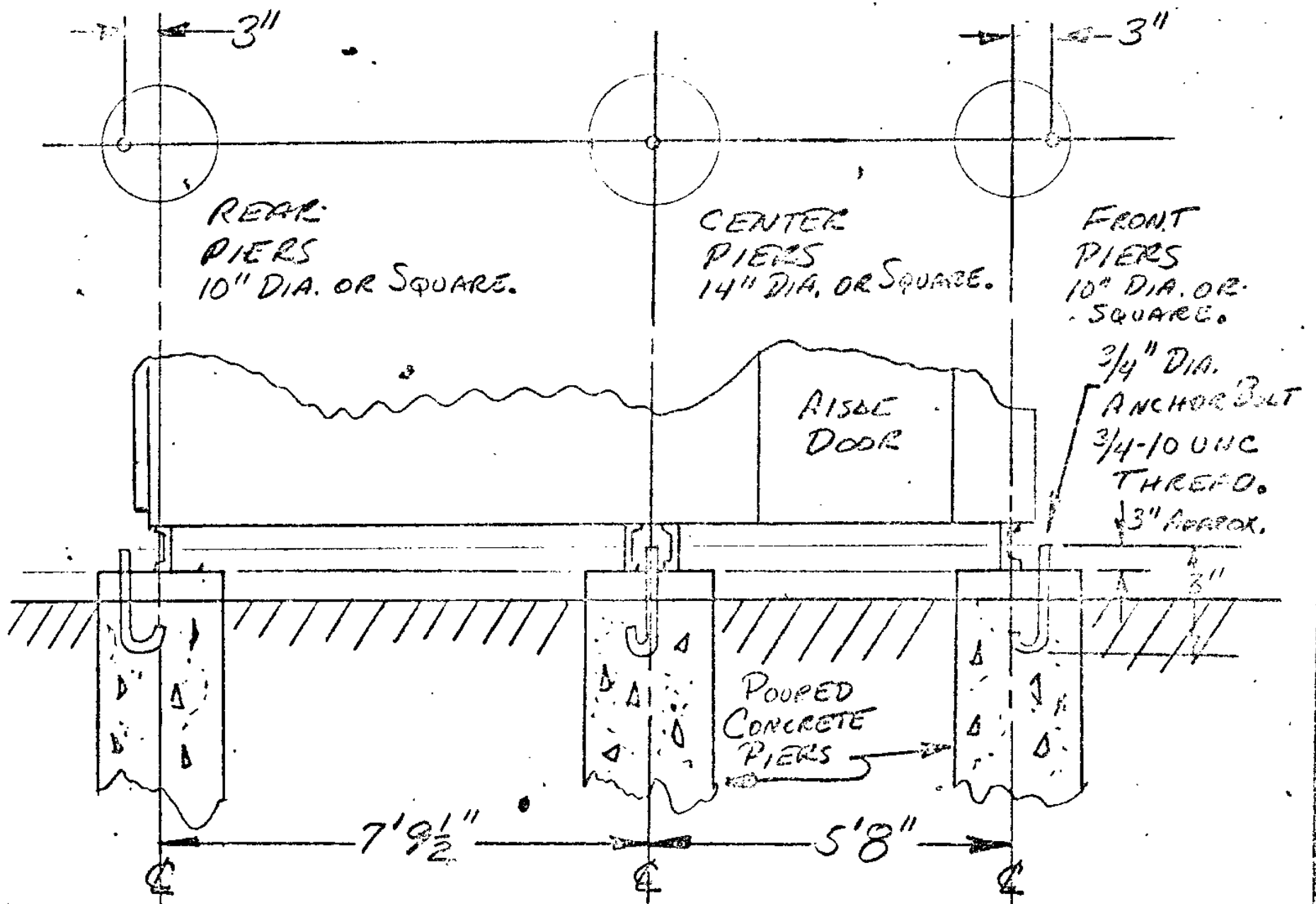
PBD 41601

Page 2 of 9

SENT TO BARKELEW 2/6/73

FIGURE 5

RECOMMENDED PIER SPACING FOR THE
SQUARE D OUTDOOR BUILDING.



PIERS MUST BE DESIGNED TO MATCH BUILDING LOAD
TO EXISTING SOIL CONDITIONS AT JOBSITE.

[illegible]

SERIES 2 5KV METAL CLAD SWITCHGEAR
(CURRENT CARRYING PARTS)

The current carrying parts consist of incoming or outgoing feeder or load bus, the C.T. tube and the top breaker connection, the bottom breaker connection, the transition bus and the main bus assembly.

1. The incoming or outgoing bus can be 1/2" x 4" copper or 3/8" x 4" aluminum for 1200 amp assemblies and double 1/2" x 4" copper for 2000 amp assemblies.
2. The C.T. tube assembly, P/N C44061-937-50, is ETP 101 (Electrolytic Tough Pitch) copper tube 2-3/8" O.D. with "Raychem" insulating material #WCSF-1500 (Polyolefin material) applied by the heat-shrink method. (Held in oven @ 350°F. for 30 minutes for complete contraction of "Raychem" tubing for a tight fit on the copper tube bus.) There is no ground screen in this assembly. Testing has proven that there is no need for the ground screen in this 5kV equipment.
3. The top breaker connection consists of a glass-polyester bell molding with a copper contact for breaker connection. Each phase has an individual bell molding mounted on an aluminum support pan. One pan supports all of the bell moldings (3 top and 3 bottom).
4. The bottom breaker connection is the same as the top connection.
5. The transition bus, from the bottom breaker connection to the main bus, can be 1/2" x 4" copper or 3/8" x 4" aluminum for 1200 amp assemblies. For 2000 amp assemblies, double 1/2" x 4" copper or double 3/8" x 4" aluminum, can be used.
6. The main bus assemblies are supported by glass-polyester moldings (bus brace) of sufficient strength to withstand the forces resulting from faults on systems up to and including 350 MVA. The main bus can be 1/2" x 4" copper or 3/8" x 4" aluminum for 1200 amp assemblies and double 1/2" x 4" copper or double 3/8" x 4" aluminum for 2000 amp assemblies. For 3000 amp, main bus assemblies only, double 3/8" x 4" copper can be used.
7. The cover plate assemblies have to be considered for each application separately. The 1200 amp assemblies present no problems. The 2000 amp assemblies do present many problems. The engineering department should be consulted for the proper use of the space above the cable compartment and the breaker compartment. These compartments require ventilation openings in the top and rear cover plates.

THE SQUARE D COMPANY HAS PROPRIETARY RIGHTS TO THE INFORMATION CONTAINED HEREON. THIS INFORMATION REMAINS THE PROPERTY OF SQUARE D COMPANY AND MAY BE USED ONLY IN CONFORMANCE WITH INSTRUCTIONS ISSUED BY SQUARE D COMPANY. THIS DOCUMENT IS ISSUED IN CONFIDENCE. IT MAY NOT BE REPRODUCED WITHOUT WRITTEN PERMISSION FROM THE SQUARE D COMPANY, AND MAY BE RECALLED AT ANY TIME.

REV.	C. R.	DATE	BY	DO NOT SCALE - WORK TO DIMENSIONS			
				STANDARD TOLERANCE UNLESS OTHERWISE SPECIFIED	LINEAL DIM.	TWO PLACE DECIMAL THREE PLACE DECIMAL	$\pm .020$ $\pm .005$
					HOLE DIA.	FRACTIONAL LETTER, OR NUMBERED DRILL THREE PLACE DECIMAL	$\pm .004$ $\pm .002$
					ANGLE	DIMENSIONED $\pm 1^\circ$	UNDIMENSIONED $90^\circ \pm 2^\circ$
				SCALE	DRAWN	CHKD.	DATE
					WLR		1-6-83
				C. R. CR-PBD 032			
				TITLE Series. 2 5kV Metal Clad Swgr.			
				USED ON (Current Carrying Parts)			
				RAWSTOCK			
PRINTS TO				 SQUARE D COMPANY BARKLEW PLANT MIDDLETOWN, OHIO USA			
				PBD-41720 Pg. 1 of 2			

C	D	E	F	G
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8. The following is a description of the glass-polyester material used for making the bus brace molding and the bell molding, used for the breaker connections.

Polyester material is "Premix Incorporated" No. 3100-15, which contains 15 percent fiberglass.

9. All bus material is insulated by application of epoxy insulation as per drawing no. A44060-374-01. All bus connections and bus joints are insulated with the addition of P.V.C. boots, installed with nylon bolts and nuts.

10. The following is a list of tests performed on the Series 2 5kV Metal Clad Switchgear. The results are located in the Square D engineering files.

Test Performed

- 1) Partial Discharge
- 2) Basic Impulse Level
- 3) Short Circuit Tests
- 4) Temperature Rise
- 5) Hi-Pot
- 6) Minimum Boot Overlap
- 7) Shrink Tube Life Test (By Raychem)
- 8) Current Leakage Test

Engineering File No. 21201.4.8

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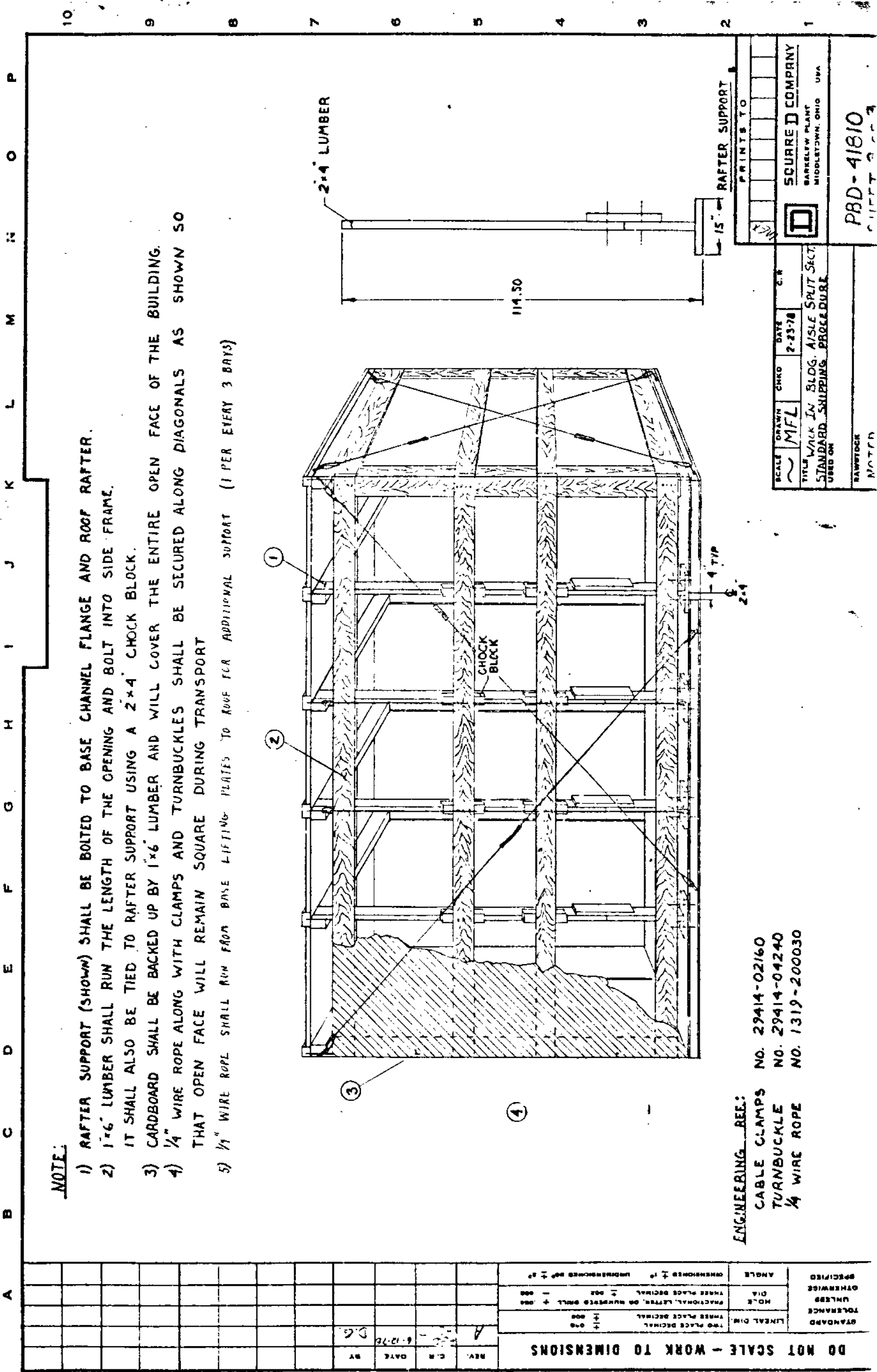
REV.	C. R.	DATE	BY	DO NOT SCALE - WORK TO DIMENSIONS									
				STANDARD TOLERANCE UNLESS OTHERWISE SPECIFIED	LINEAL DIM.	TWO PLACE DECIMAL ± .000 THREE PLACE DECIMAL ± .000							
					HOLE DIA.	FRACTIONAL, LETTER, OR NUMBERED DRILL + .004 THREE PLACE DECIMAL ± .002 - .002							
					ANGLE	DIMENSIONED ± 1° UNDIMENSIONED 90° ± 2°							
					SCALE	DRAWN	CHKD.	DATE	C. R.				
					WLR		1-6-83	CR-PBD 032					
				TITLE						 SQUARE D COMPANY BARKELEW PLANT MIDDLETOWN, OHIO USA			
				Series 2 5kV Metal Clad Switchgear									
				USED ON						PBD-41720 Pg. 2 of 2			
				(Current Carrying Parts)									
				RAWSTOCK									
PRINTS TO													
A	B	C	D	E	F	G							

1. A 8"-24 LB/FT I-BEAM OR LARGER IS RECOMMENDED FOR USE AS A SPREADER BAR.

2. FOR HOISTING, USE STEEL CABLES WITH A MINIMUM DIAMETER OF 3/8". ATTACH CABLES BETWEEN SPREADER BAR AND LIFTING EYES ON SWITCHGEAR. INSTALLING A TURN BUCKLE IN EACH CABLE WILL HELP BALANCE LIFTING LOAD. ALL LIFTING EYES MUST BE ATTACHED BY CABLES TO SPREADER BAR.
3. BEFORE LIFTING LOAD COMPLETELY OFF SHIPPING SKID, CHECK LOAD FOR BALANCE. IF NECESSARY ADD BALANCE CABLES TO ENDS OF SHIPPING SECTION AS SHOWN ABOVE.

REV.	C. R.	DATE	BY	DO NOT SCALE - WORK TO DIMENSIONS										
				STANDARD TOLERANCE UNLESS OTHERWISE SPECIFIED	LINEAL DIM.	TWO PLACE DECIMAL $\pm .020$								
					HOLE DIA.	THREE PLACE DECIMAL $\pm .005$								
					ANGLE	FRACTIONAL, LETTER, OR NUMBERED DRILL $\pm .004$		THREE PLACE DECIMAL $\pm .002$		- .002				
						DIMENSIONED $\pm 1^\circ$		UNDIMENSIONED $90^\circ \pm 1^\circ$						
				SCALE	DRAWN	CHKD.	DATE	C. R.	 SQUARE D COMPANY BARKERLEW PLANT MIDDLETOWN, OHIO USA					
				TITLE										
				LIFTING INSTRUCTIONS										
				USED ON										
				MC SWITCHGEAR										
				RAWSTOCK										
PRINTS TO									PBD-41300					

C



OUTDOOR BUILDING LOOSE PIECE SHIPPING
PARTS LISTS DIRECTORY

5kV Buildings

See Parts List No.

4 Bay	44060-999-50
5 Bay	-51
6 Bay	-52
7 Bay	-53
8 Bay	-54
9 Bay	-55
10 Bay	-56
11 Bay	-57
12 Bay	-58
13 Bay	-59
14 Bay	-60
15 Bay	-61
16 Bay	-62
17 Bay	-63
18 Bay	-64
19 Bay	-65
20 Bay	-66

15kV Buildings

3 Bay	A44061-000-50
4 Bay	-51
5 Bay	-52
6 Bay	-53
7 Bay	-54
8 Bay	-55
9 Bay	-56
10 Bay	-57
11 Bay	-58
12 Bay	-59
13 Bay	-60
14 Bay	-61
15 Bay	-62
16 Bay	-63
17 Bay	-64
18 Bay	-65
19 Bay	-66
20 Bay	-67

REV.	C.R.	DATE	BY	DO NOT SCALE - WORK TO DIMENSIONS									
A	CR-174	9-20-76	EBZ	STANDARD TOLERANCE UNLESS OTHERWISE SPECIFIED		LINEAL DIM.	TWO PLACE DECIMAL $\pm .020$ THREE PLACE DECIMAL $\pm .005$		FRACTIONAL, LETTER, OR NUMBERED DRILL $\pm .004$ THREE PLACE DECIMAL $\pm .002$ — .002			SQUARE D COMPANY BARKELEW PLANT MIDDLETOWN, OHIO USA	
						HOLE DIA.							
						ANGLE	DIMENSIONED $\pm 1^\circ$ UNDIMENSIONED $90^\circ \pm 2^\circ$						
				SCALE	DRAWN	CHKD.	DATE	C.R.					
					EBZ		9-13-76	CR-174					
				TITLE Outdoor Walk-In Bldg. Assembly									
				Instructions and Shipping Parts									
				Lists									
PRINTS TO													
1	2	3	4	5	6	7	8	9	10	11	12		

A B C D E F G

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OUTDOOR BUILDING LOOSE PIECE SHIPPING
PARTS LISTS DIRECTORY

LVDO Buildings

See Parts List No.

5 Bay	A44061-001-50
6 Bay	-51
7 Bay	-52
8 Bay	-53
9 Bay	-54
10 Bay	-55
11 Bay	-56
12 Bay	-57
13 Bay	-58
14 Bay	-59
15 Bay	-60
16 Bay	-61
17 Bay	-62
18 Bay	-63
19 Bay	-64
20 Bay	-65

DO NOT SCALE - WORK TO DIMENSIONS

STANDARD
TOLERANCE
UNLESS
OTHERWISE
SPECIFIED

LINEAL DIM.

TWO PLACE DECIMAL $\pm .020$
THREE PLACE DECIMAL $\pm .005$

HOLE
DIA.

FRACTIONAL, LETTER, OR NUMBERED DRILL $+ .004$
THREE PLACE DECIMAL $\pm .002$ $- .002$

ANGLE

DIMENSIONED $\pm 1^\circ$ UNDIMENSIONED $90^\circ \pm 1^\circ$

SCALE

DRAWN

CHKD.

DATE

C. R.

EPZ

9-13-76

12-18-80

TITLE

Outdoor Walk-In Bldg. Assembly

PRINTS TO

Instructions and Shipping Parts

Lists



SQUARE D COMPANY

BARKELEW PLANT
MIDDLETOWN, OHIO USA

PBD 41901 Page 3 of 3

A

B

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FLOOR PREPARATION REQUIREMENTS
FOR SQUARE D METAL CLAD SWITCHGEAR

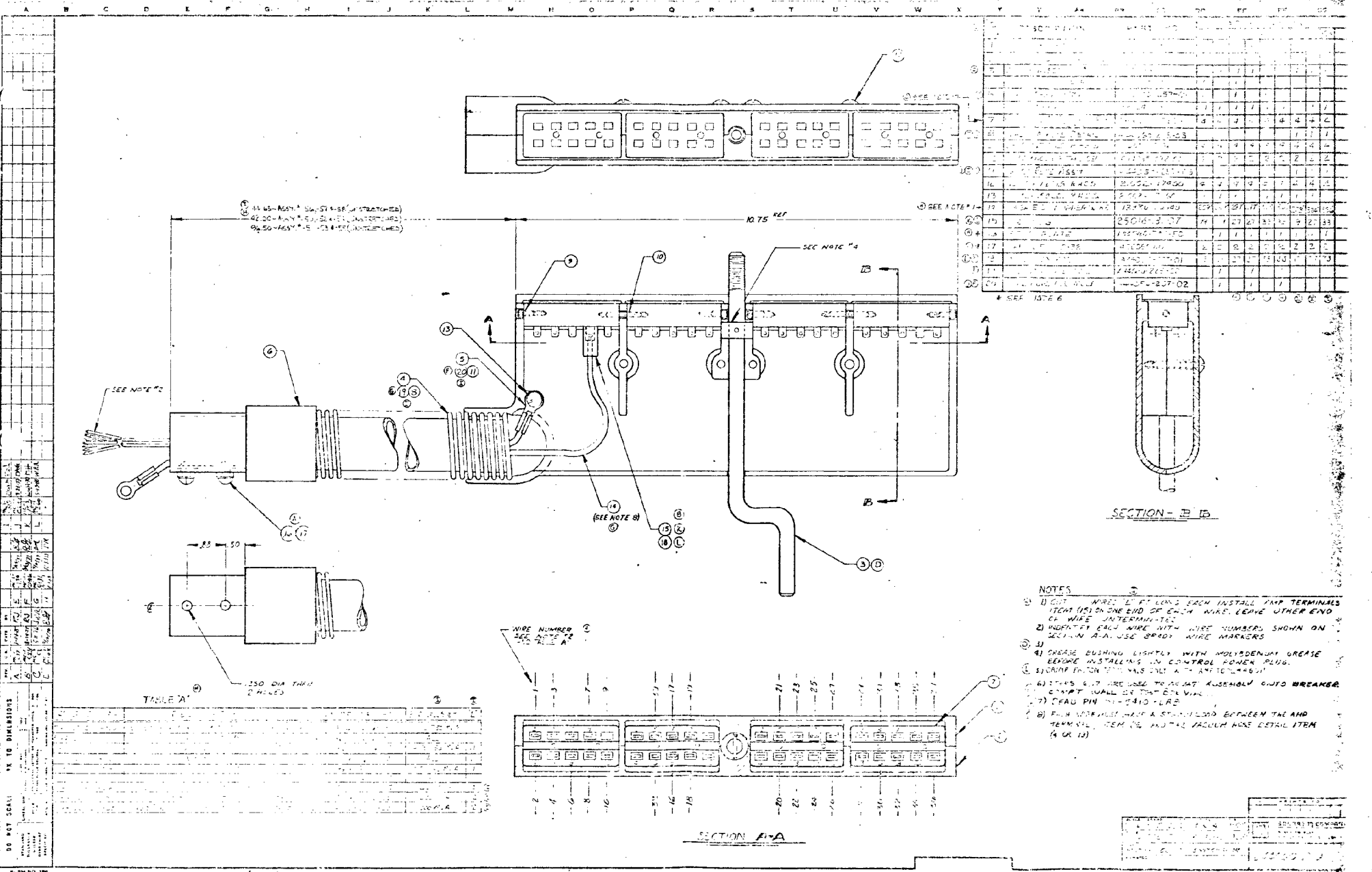
The floor surface where the Square D metal clad switchgear is to be placed must meet certain minimum requirements to insure proper operation of the switchgear.

The surface must be level to insure the proper and reliable operation of meters, relays, watt-hour meters, and the doors.

The surface must be flat within 0.125 inch overall to insure that the equipment will be the same as it was when it was manufactured. This is necessary to insure the mechanical functions of the equipment will operate properly. The operation of the shutters, the line up of the breaker connections, the free movement of the circuit breaker in and out of the cubicle, and the operation of the dump-out P.T. assembly are all affected by the flatness of the floor surface.

The floor surface must be capable of supporting the weight of the switchgear.

REV.	C. R.	DATE	BY	DO NOT SCALE - WORK TO DIMENSIONS												
				STANDARD TOLERANCE UNLESS OTHERWISE SPECIFIED	LINEAL DIM.	TWO PLACE DECIMAL $\pm .020$ THREE PLACE DECIMAL $\pm .008$										
					HOLE DIA.	FRACTIONAL, LETTER, OR NUMBERED DRILL $+ .004$ THREE PLACE DECIMAL $\pm .002$ $- .002$										
					ANGLE	DIMENSIONED $\pm 1^\circ$ UNDIMENSIONED $90^\circ \pm 2^\circ$										
				SCALE	DRAWN	CHKD.	DATE	C. R. 6-16-77 CR-PBD -014			 SQUARE D COMPANY BARKELEW PLANT MIDDLETOWN, OHIO USA					
					EBZ											
				TITLE FLOOR PREPARATION REQUIREMENTS							PBD 41902					
				USED ON FOR SQUARE D METAL CLAD SWITCHGEAR RAWSTOCK												
PRINTS TO																
REV.																
	A	B		C	D	E	F	G								

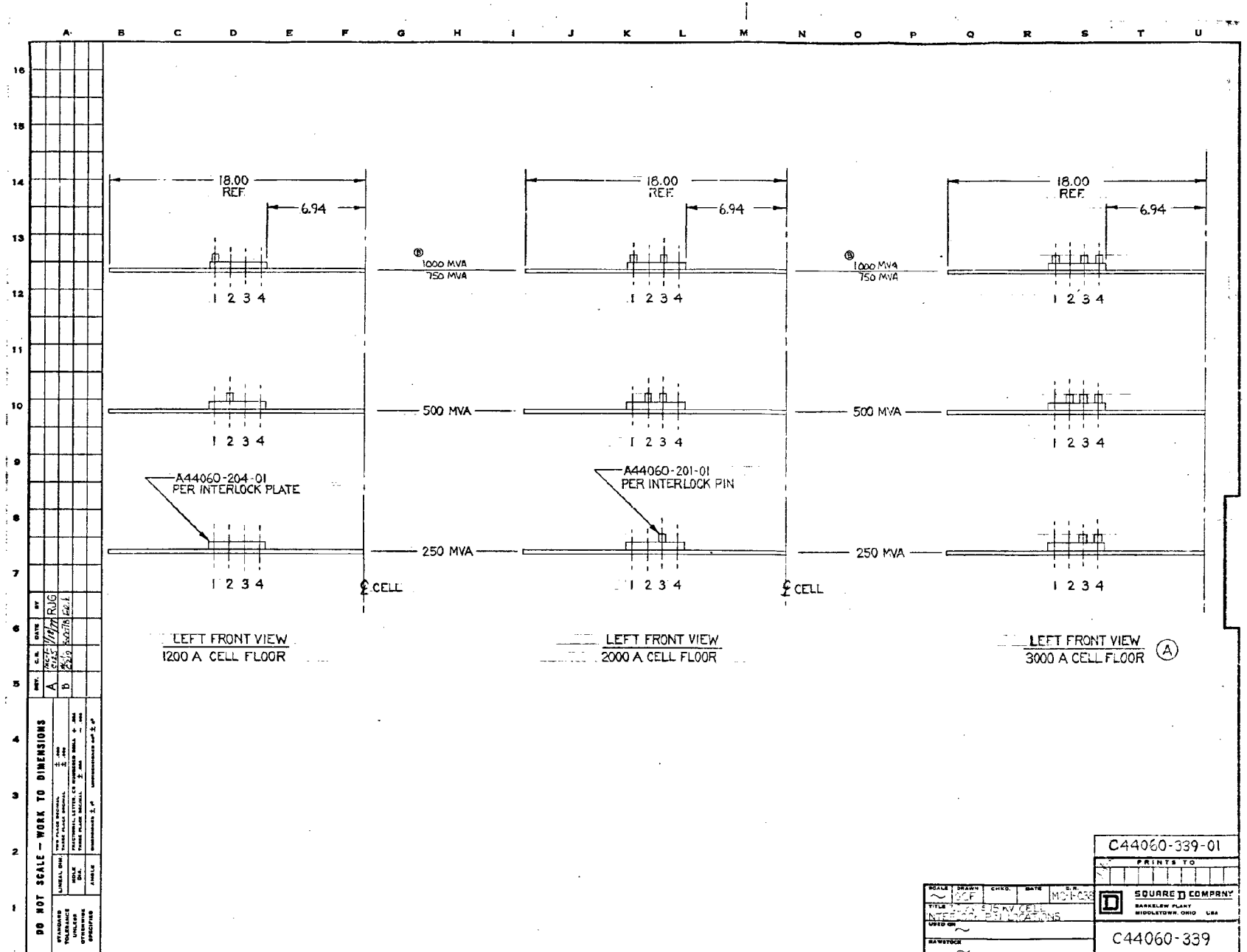


NO.	DESCRIPTION	QTY	UNIT	PRICE	TOTAL
1	...	...	...	...	...
2	...	...	...	...	...
3	...	...	...	...	...
4	...	...	...	...	...
5	...	...	...	...	...
6	...	...	...	...	...
7	...	...	...	...	...
8	...	...	...	...	...
9	...	...	...	...	...
10	...	...	...	...	...
11	...	...	...	...	...
12	...	...	...	...	...
13	...	...	...	...	...
14	...	...	...	...	...
15	...	...	...	...	...
16	...	...	...	...	...
17	...	...	...	...	...
18	...	...	...	...	...
19	...	...	...	...	...
20	...	...	...	...	...
21	...	...	...	...	...
22	...	...	...	...	...
23	...	...	...	...	...
24	...	...	...	...	...
25	...	...	...	...	...

- NOTES
- 1) CUT WIRE 1" LONG EACH. INSTALL TAP TERMINALS (ITEM 15) ON ONE END OF EACH WIRE. LEAVE OTHER END OF WIRE UNTERMINATED.
 - 2) IDENTIFY EACH WIRE WITH WIRE NUMBERS SHOWN ON SECTION A-A. USE SPRAY WIRE MARKERS.
 - 3) GREASE BUSHING LIGHTLY WITH POLYBLENDAIR GREASE BEFORE INSTALLING IN CONTROL POWER PLUG.
 - 4) SCREW IN TIGHTEN TERMINALS ONLY WITH ANTI-LOCK WRENCH.
 - 5) WIRE 15'S ARE USED TO LOCATE ASSEMBLY ONTO BREAKER CHAPT. WALL OF TEST BOX VIBRA.
 - 6) LEAD PIN 11-1410-LAS.
 - 7) PLUG WRENCH MUST HAVE A STAINLESS STEEL BETWEEN THE AND TERMINAL. ITEM 16 AND 17. FACULTY HAVE DETAIL ITEM (A OR B).

TABLE A

NO.	DESCRIPTION	QTY	UNIT	PRICE	TOTAL
1	...	...	...	...	...
2	...	...	...	...	...
3	...	...	...	...	...
4	...	...	...	...	...
5	...	...	...	...	...
6	...	...	...	...	...
7	...	...	...	...	...
8	...	...	...	...	...
9	...	...	...	...	...
10	...	...	...	...	...
11	...	...	...	...	...
12	...	...	...	...	...
13	...	...	...	...	...
14	...	...	...	...	...
15	...	...	...	...	...
16	...	...	...	...	...
17	...	...	...	...	...
18	...	...	...	...	...
19	...	...	...	...	...
20	...	...	...	...	...
21	...	...	...	...	...
22	...	...	...	...	...
23	...	...	...	...	...
24	...	...	...	...	...
25	...	...	...	...	...



C44060-339-01			
PRINTS TO			
SQUARE COMPANY			
BARRELEW PLANT			
MIDDLETOWN, OHIO U.S.A.			
C44060-339			

SCALE	DRAWN	CHKD	DATE	S.R.
1/8" = 1'-0"	WJR	WJR	10/10/80	WJR
TITLE: 1200 A CELL FLOOR				
SUBTITLE: INTERLOCK ESTIMATIONS				
DATE: 10/10/80				
REVISIONS:				

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

PART NO.	
B 44060-340-01	

REV.	C.R.	DATE	BY
A	MC-1 C-15	1/18/77	EBB

B44060-340

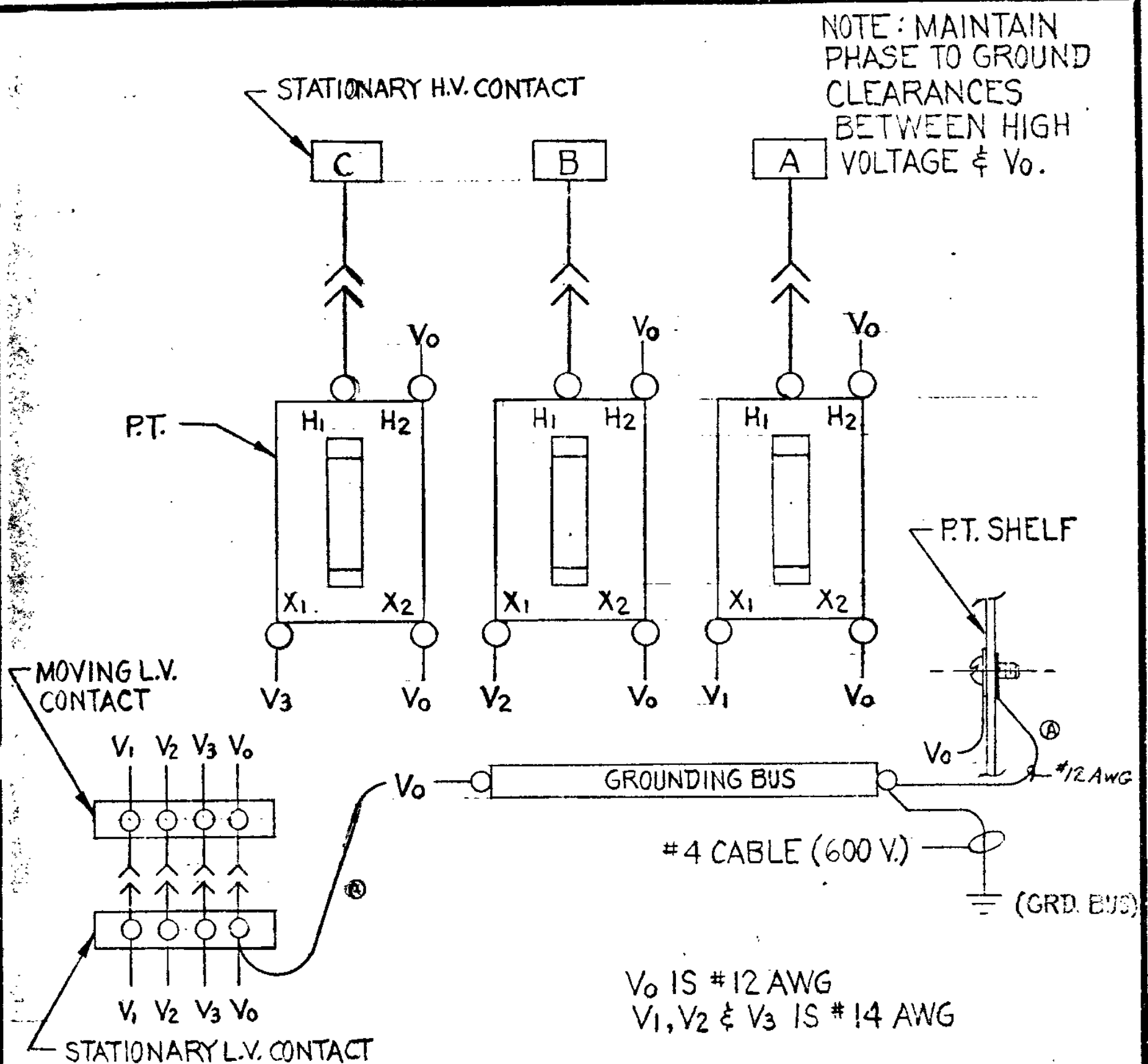
SCALE	DRAWN	CHKD.	DATE	C.R.
1/8"	JCF			MC-1-C78
TITLE				
5 KV INTERLOCK PIN LOCATIONS				

PRINTS TO

1	2	3	4	5
---	---	---	---	---

SQUIRE D COMPANY
BARKELEY PLANT

NOTE: FOR 3000 AMP, 350 MVA INSTALL PINS IN ALL FOUR LOCATIONS IN THE INTERLOCK PLATE.



V₀ IS #12 AWG
V₁, V₂ & V₃ IS #14 AWG

Y TO Y CONFIGURATION

A44060-465				Y TO Y CONFIGURATION			
REV.	C. R.	DATE	BY	DO NOT SCALE - WORK TO DIMENSIONS			
A	MC1-C195	12 APR 78	EDL				
				STANDARD TOLERANCE UNLESS OTHERWISE SPECIFIED	LINEAL DIM.	TWO PLACE DECIMAL $\pm .020$ THREE PLACE DECIMAL $\pm .008$	
					HOLE DIA.	FRACTIONAL, LETTER, OR NUMBERED DRILL $\pm .004$ THREE PLACE DECIMAL $\pm .002$ — .002	
					ANGLE	DIMENSIONED $\pm 1^\circ$ UNDIMENSIONED $90^\circ \pm 2^\circ$	
				SCALE ~	DRAWN RJG	CHKD.	DATE 6-6-75
							C. R. MC1-C45
				TITLE WIRELESS DIAGRAM - 3 FT. REAR MOUNT			
				USED ON DUMP-OUT PT.			
				RAW STOCK ~			
PRINTS TO				 SQUARE D COMPANY BARKELEW PLANT MIDDLETOWN, OHIO USA			
				A44060-465			

A

B

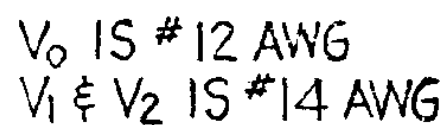
C

D

III

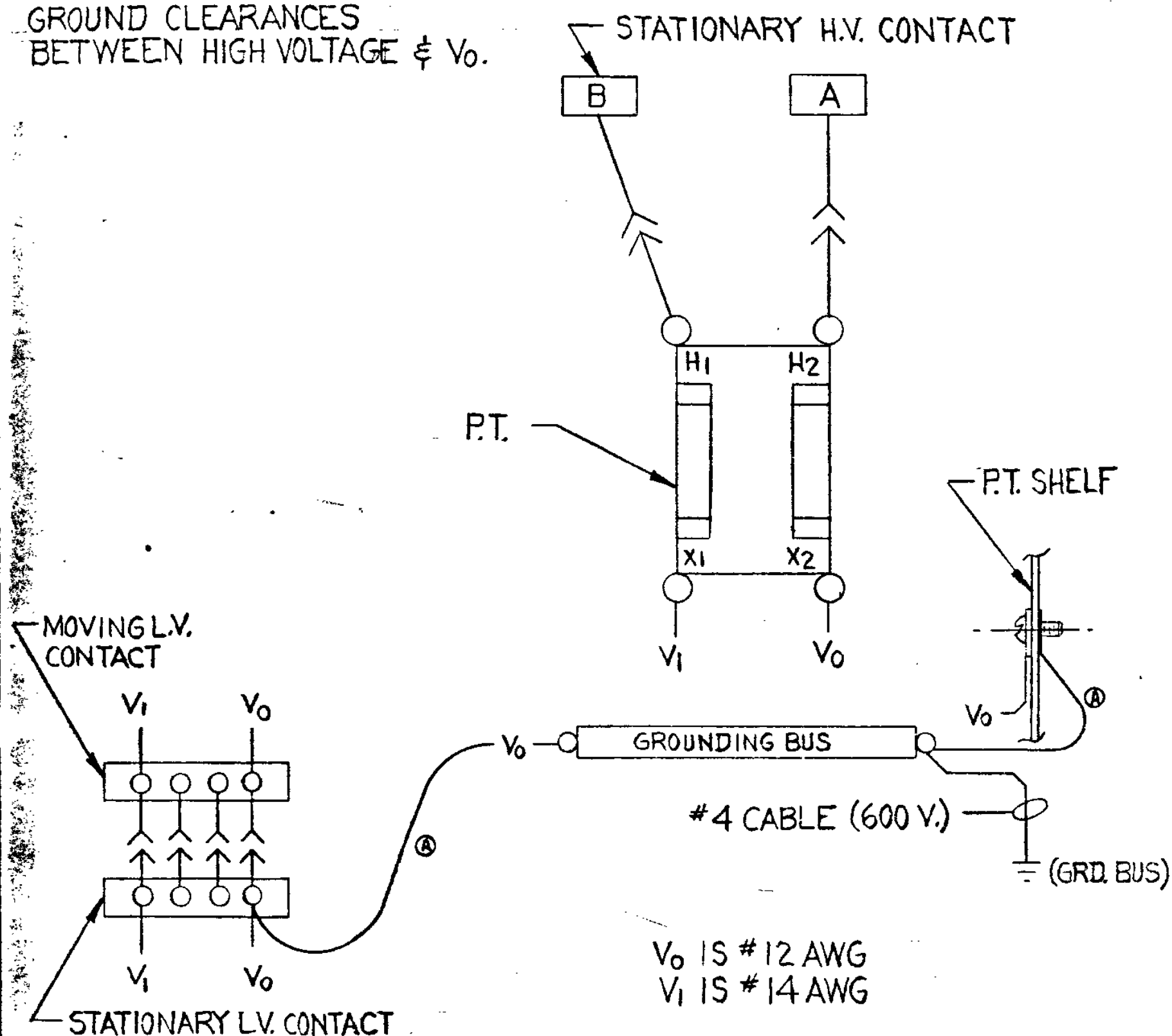
F

G



OPEN DELTA CONFIGURATION

A 44060-466								OPEN DELTA CONFIGURATION																																															
REV.				C. R.		DATE		BY		DO NOT SCALE - WORK TO DIMENSIONS																																													
A		MC-1-C911		4-22-76		JER				STANDARD TOLERANCE UNLESS OTHERWISE SPECIFIED				LINEAL DIM.		TWO PLACE DECIMAL ± .020 THREE PLACE DECIMAL ± .008																																							
B		MC-1-C195		SEP 78		E2K								HOLE DIA.		FRACTIONAL LETTER OR NUMBERED DRILL + .004 THREE PLACE DECIMAL ± .002 - .002																																							
												ANGLE		DIMENSIONED ± 1° UNDIMENSIONED 90° ± 2°																																									
										SCALE ~		DRAWN RJG		CHKD.		DATE 6-9-75		C. R. MC-1-C45																																					
																		 SQUARE D COMPANY BARKELEW PLANT MIDDLETOWN, OHIO USA																																					
PRINTS TO								TITLE WIRELESS DIAGRAM - 2 P.T. REAR MOUNT								A44060-466																																							
								USED ON DUMP-OUT P.T.																																															
RAWSTOCK								~																																															
A								B								C								D								E								F								G							



REV.	C. R.	DATE	BY
A	MC-1-C95	18APR78	ERL

DO NOT SCALE - WORK TO DIMENSIONS

STANDARD TOLERANCE UNLESS OTHERWISE SPECIFIED	LINEAL DIM.	TWO PLACE DECIMAL $\pm .020$ THREE PLACE DECIMAL $\pm .005$
	HOLE DIA.	FRACTIONAL, LETTER, OR NUMBERED DRILL $+ .004$ THREE PLACE DECIMAL $\pm .002$ $- .002$
	ANGLE	DIMENSIONED $\pm 1^\circ$ UNDIMENSIONED $90^\circ \pm 2^\circ$

SCALE ~	DRAWN RJG	CHKD.	DATE 6-9-75	C. R. MC-1-045
------------	--------------	-------	----------------	-------------------

TITLE WIRELESS DIAGRAM - I.P.T.
REAR MOUNT

USED ON DUMP-OUT P.T.

RAWSTOCK



SQUARE COMPANY

BARKELEW PLANT
MIDDLETOWN, OHIO USA

A44060 - 467

PRINTS TO

A

B

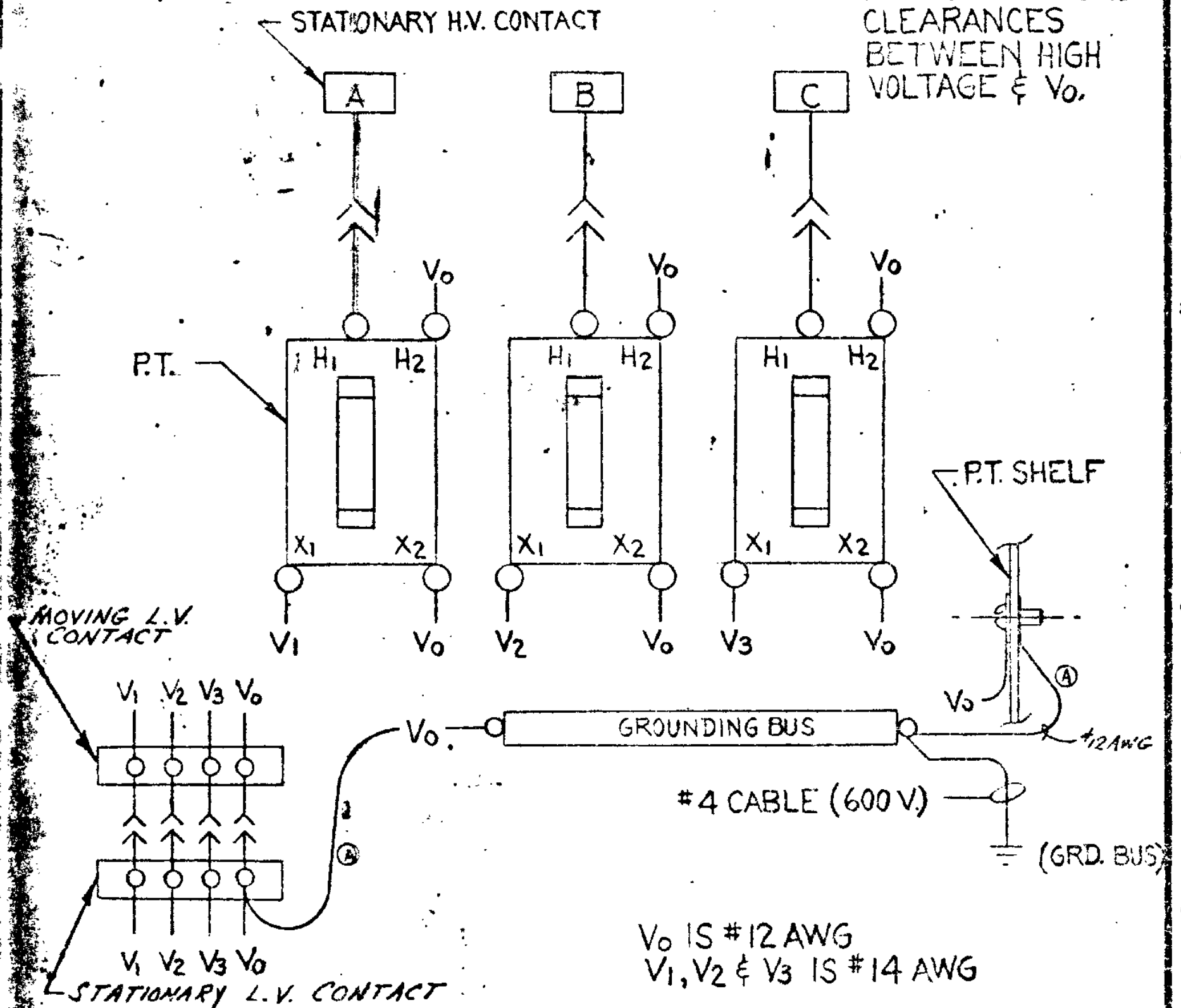
C

D

E**F**

G

NOTE: MAINTAIN
PHASE TO GROUND
CLEARANCES
BETWEEN HIGH
VOLTAGE & V_0 .



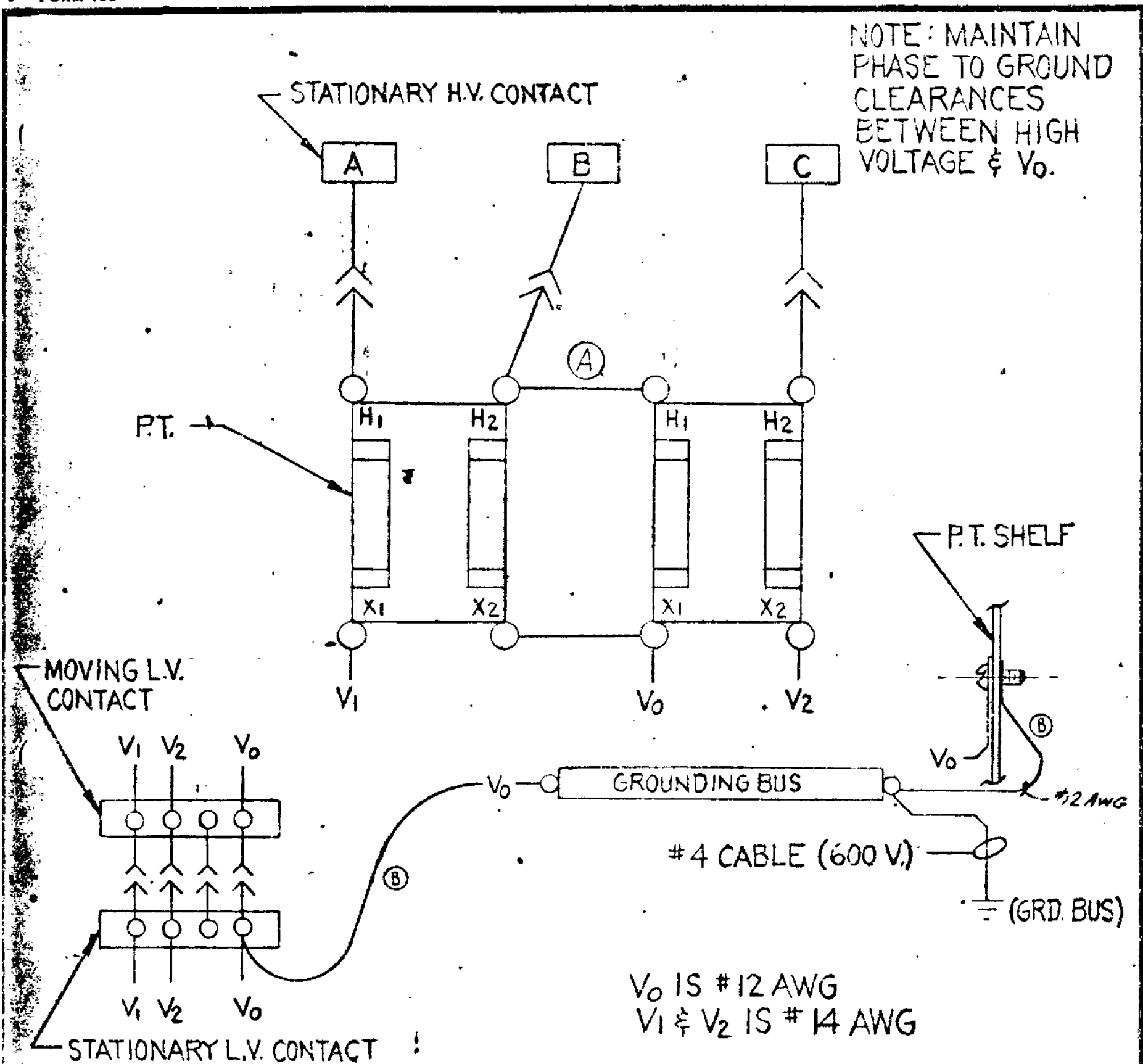
V_0 IS #12 AWG
 V_1, V_2 & V_3 IS #14 AWG

Y TO Y CONFIGURATION

A44060-468

REV.	C.R.	DATE	BY	DO NOT SCALE - WORK TO DIMENSIONS			
A	MC-1-095	8 APR 78	ERL	STANDARD TOLERANCE UNLESS OTHERWISE SPECIFIED	LINEAL DIM.	TWO PLACE DECIMAL THREE PLACE DECIMAL	$\pm .020$ $\pm .008$
					HOLE DIA.	FRACTIONAL, LETTER, OR NUMBERED DRILL	$\pm .004$ $\pm .002$ $- .002$
					ANGLE	DIMENSIONED $\pm 1^\circ$	UNDIMENSIONED $90^\circ \pm 30'$
SCALE				DRAWN	CHKD	DATE	C.R.
				RUG		6-6-75	MC-1-045
TITLE				SOURCE COMPANY			
WIRELESS DIAGRAM - 3 PT.				BANKLEW PLANT			
FRONT MOUNT				MIDDLETOWN, OHIO USA			
USED ON				A44060-468			
DUMP-OUT P.T.							
RAWSTOCK							

A B C D E F G



NOTE: MAINTAIN
PHASE TO GROUND
CLEARANCES
BETWEEN HIGH
VOLTAGE & V_0 .

STATIONARY H.V. CONTACT

P.T.

MOVING L.V.
CONTACT

✓ P.T. SHELF

GROUNDING BUS

4 CABLE (600 V.)

(GRD. BUS)

V₀ IS #12 AWG
V₁ & V₂ IS #14 AWG

OPEN DELTA CONFIGURATION

A 44060-469

[illegible]

DO NOT SCALE - WORK TO DIMENSIONS

STANDARD TOLERANCE UNLESS OTHERWISE SPECIFIED	LINEAL DIM.		TWO PLACE DECIMAL THREE PLACE DECIMAL		$\pm .020$ $\pm .008$
	HOLE DIA.		FRACTIONAL, LETTER, OR NUMBERED DRILL		$+ .004$ $\pm .002$ $-.008$
	ANGLE		DIMENSIONED $\pm 1^\circ$		UNDIMENSIONED $90^\circ \pm 2^\circ$
SCALE ~	DRAWN RJG	CHKD.	DATE 6-6-75	C. R. MC-1-C45	 SQUARE D COMPANY BARKELEW PLANT MIDDLETOWN, OHIO USA
TITLE WIRELESS DIAGRAM - 2 P.T. FRONT MOUNT					
USED ON DUMP-OUT P.T.					
RAWSTOCK ~					A44060 - 469

SQUARE D COMPANY
BARKELEW PLANT
MIDDLETOWN, OHIO USA

A44060 - 469

A

B

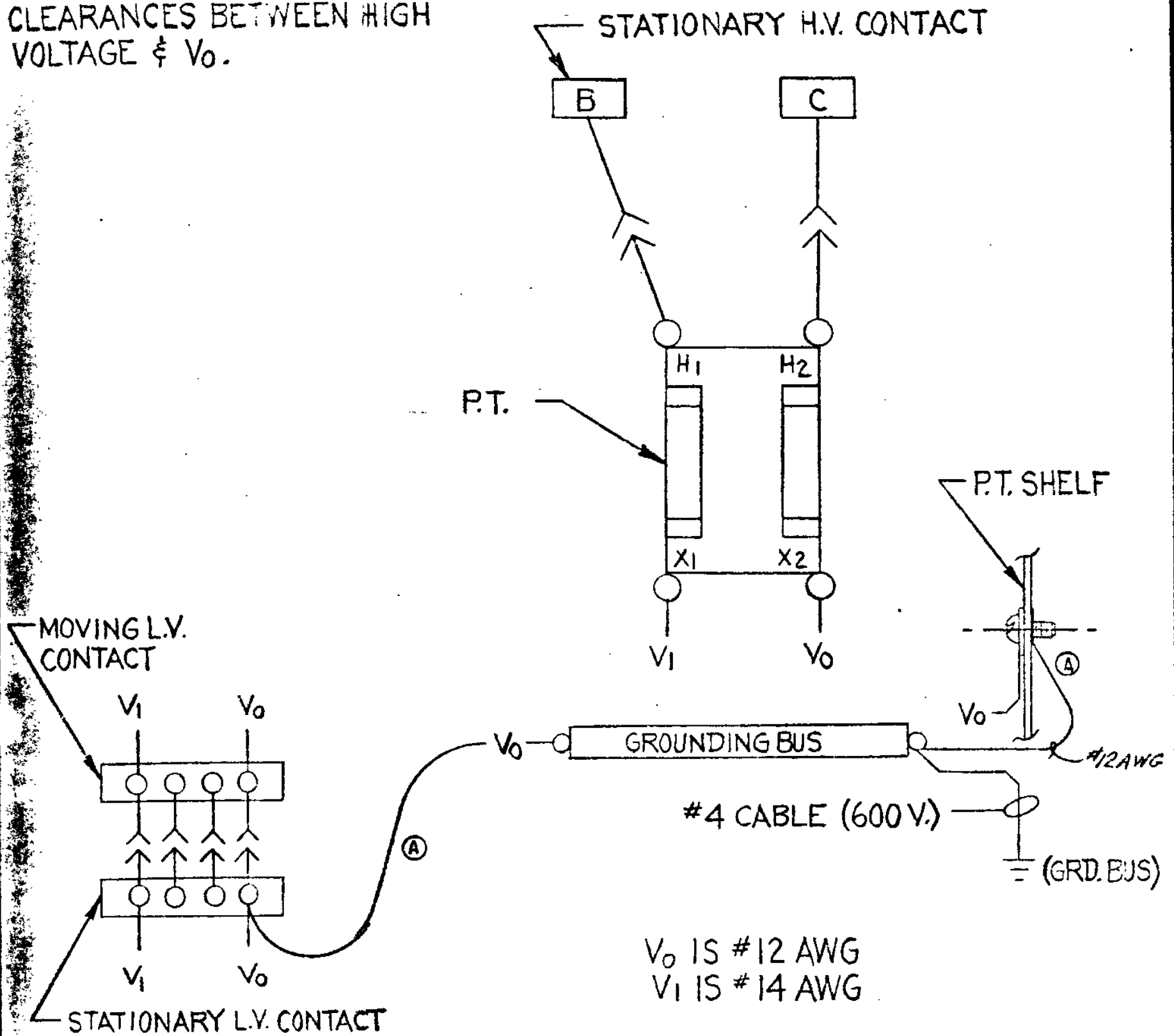
C

D

E**F**

G

NOTE: MAINTAIN PHASE TO GROUND
CLEARANCES BETWEEN HIGH
VOLTAGE & V_0 .



A 44060-470

REV.	C. R.	DATE	BY
A	MC-1-095	18 APR 78	ERK

DO NOT SCALE - WORK TO DIMENSIONS

STANDARD TOLERANCE UNLESS OTHERWISE SPECIFIED	LINEAL DIM.	TWO PLACE DECIMAL $\pm .020$ THREE PLACE DECIMAL $\pm .005$
	HOLE DIA.	FRACTIONAL, LETTER, OR NUMBERED DRILL $\pm .004$ THREE PLACE DECIMAL $\pm .002$ $-.001$
	ANGLE	DIMENSIONED $\pm 1^\circ$ UNDIMENSIONED $90^\circ \pm 2^\circ$

SCALE	DRAWN	CHKD.	DATE	C. R.
~	RJG		6-9-75	MC-1-045

WIRELESS DIAGRAM - 1 P.T.
FRONT MOUNT

IBED ON DUMP-OUT P.T.

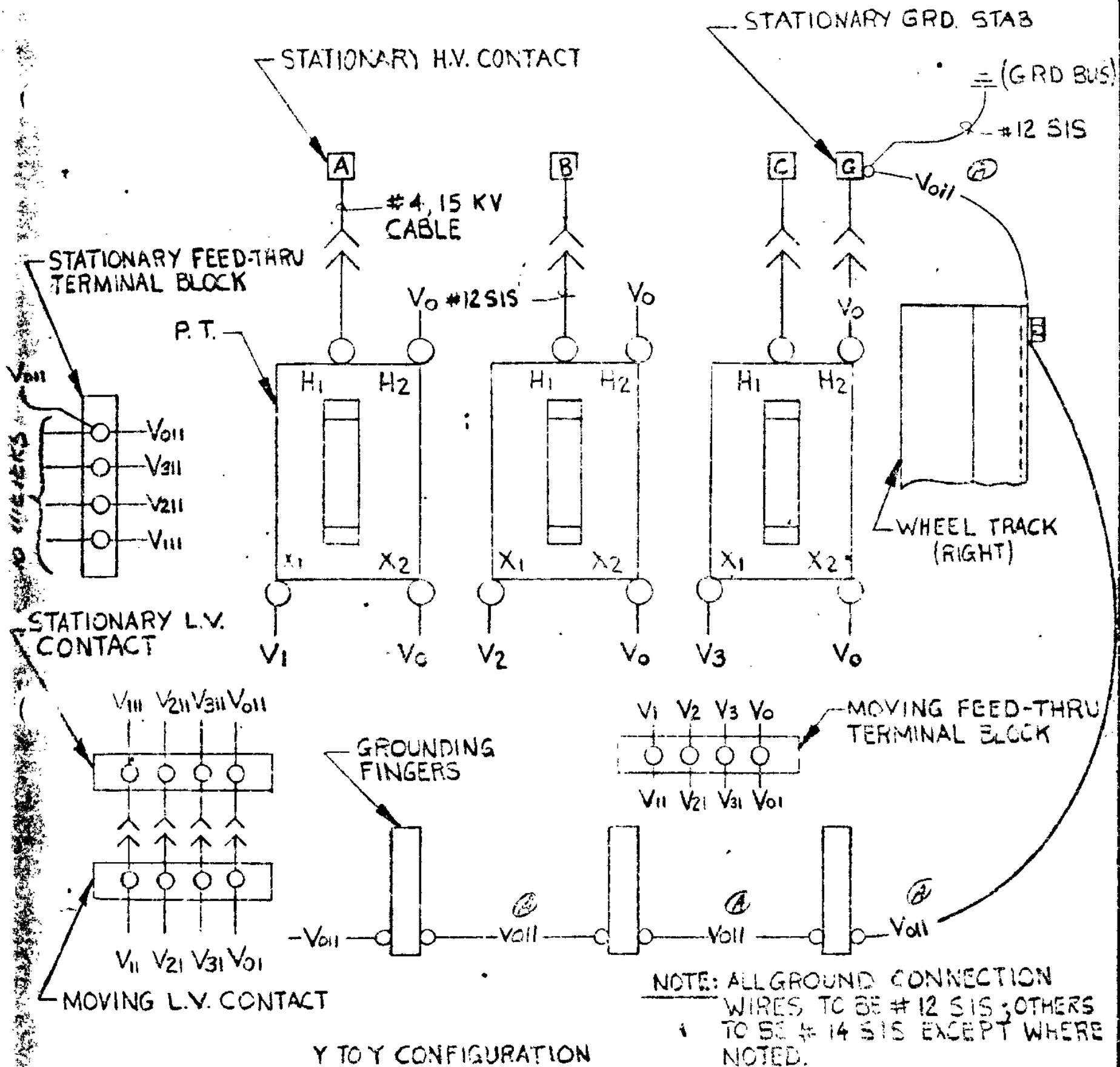
INWSTOCK ~



SQUARE D COMPANY
BARKELEW PLANT
MIDDLETOWN, OHIO USA

A 44060-470

A B C D E F G



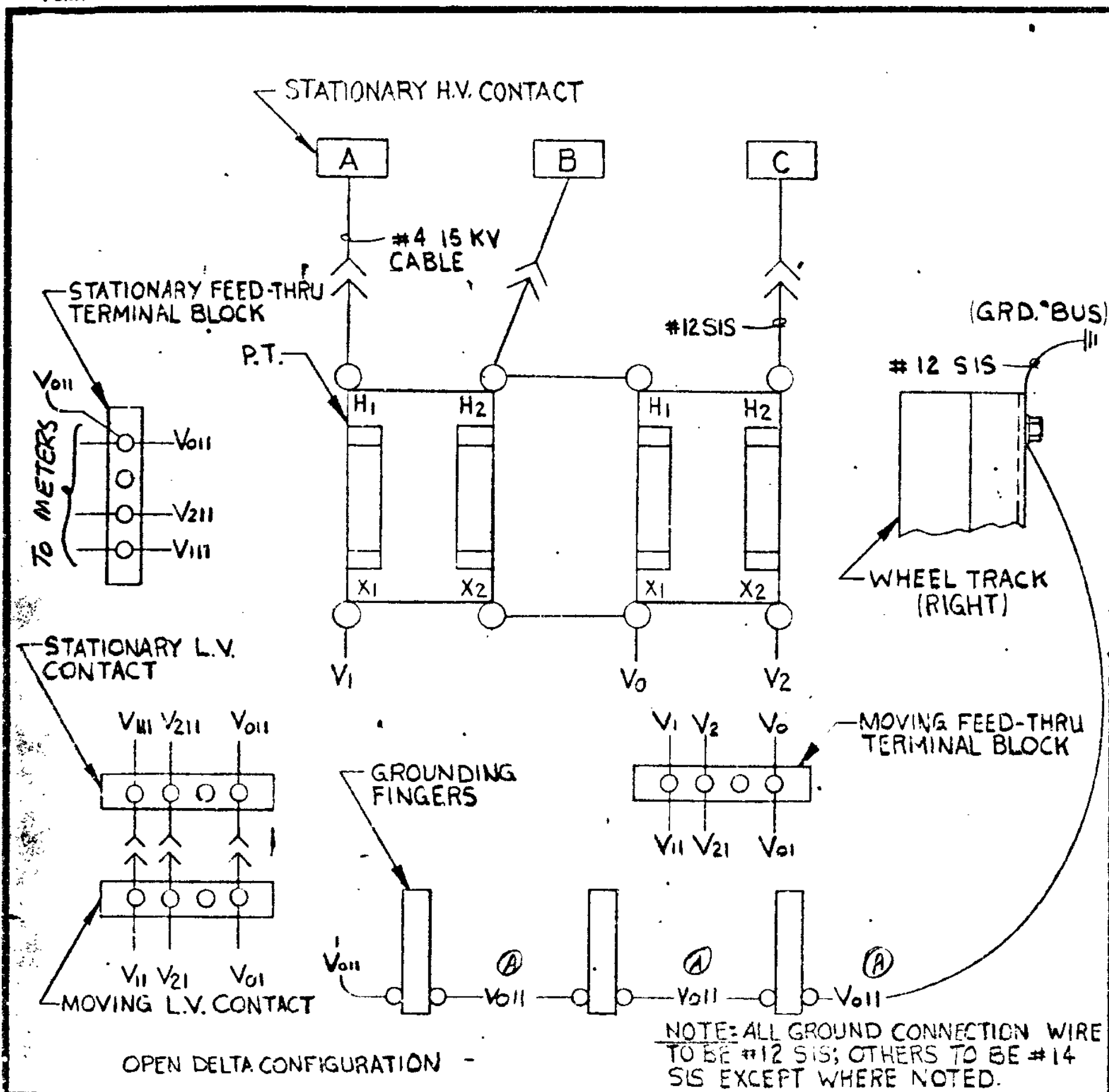
REV.	C. R.	DATE	BY
A	1-23-60	1-23-60	LMS

DO NOT SCALE - WORK TO DIMENSIONS			
STANDARD TOLERANCE UNLESS OTHERWISE SPECIFIED	LINEAL DIM.	TWO PLACE DECIMAL ± .002 THREE PLACE DECIMAL ± .003	
	HOLE DIA.	FRACTIONAL, LETTER OR NUMBERED DRILL + .004 THREE PLACE DECIMAL ± .002 - .002	
	ANGLE	DIMENSIONED ± 1° UNDIMENSIONED 60° ± 1°	
SCALE	DRAWN	CHKD	DATE
~	LMS		9-6-73
TITLE WIRELESS DIAGRAM - P.T. FRONT MOUNT			
USED ON			
DRAWOUT P.T. CARRIAGE			
RAWSTOCK			

PRINTS TO	
A	B
C	D
E	F
G	

SQUIRE D COMPANY	
PARKELEY PLANT	
MIDDLETOWN, OHIO USA	

A44061-389



REV.	C.R.	DATE	BY
A	112-1-1 C 262	1-23-80	LMS

DO NOT SCALE - WORK TO DIMENSIONS			
STANDARD TOLERANCE UNLESS OTHERWISE SPECIFIED	LINEAL DIM.	TWO PLACE DECIMAL ± .030 THREE PLACE DECIMAL ± .008	
	POLE DIA.	FRACTIONAL, LETTER, OR NUMBERED DRILL ± .004 THREE PLACE DECIMAL ± .002	
	ANGLE	DIMENSIONED ± 1° UNDIMENSIONED 90° ± 2°	

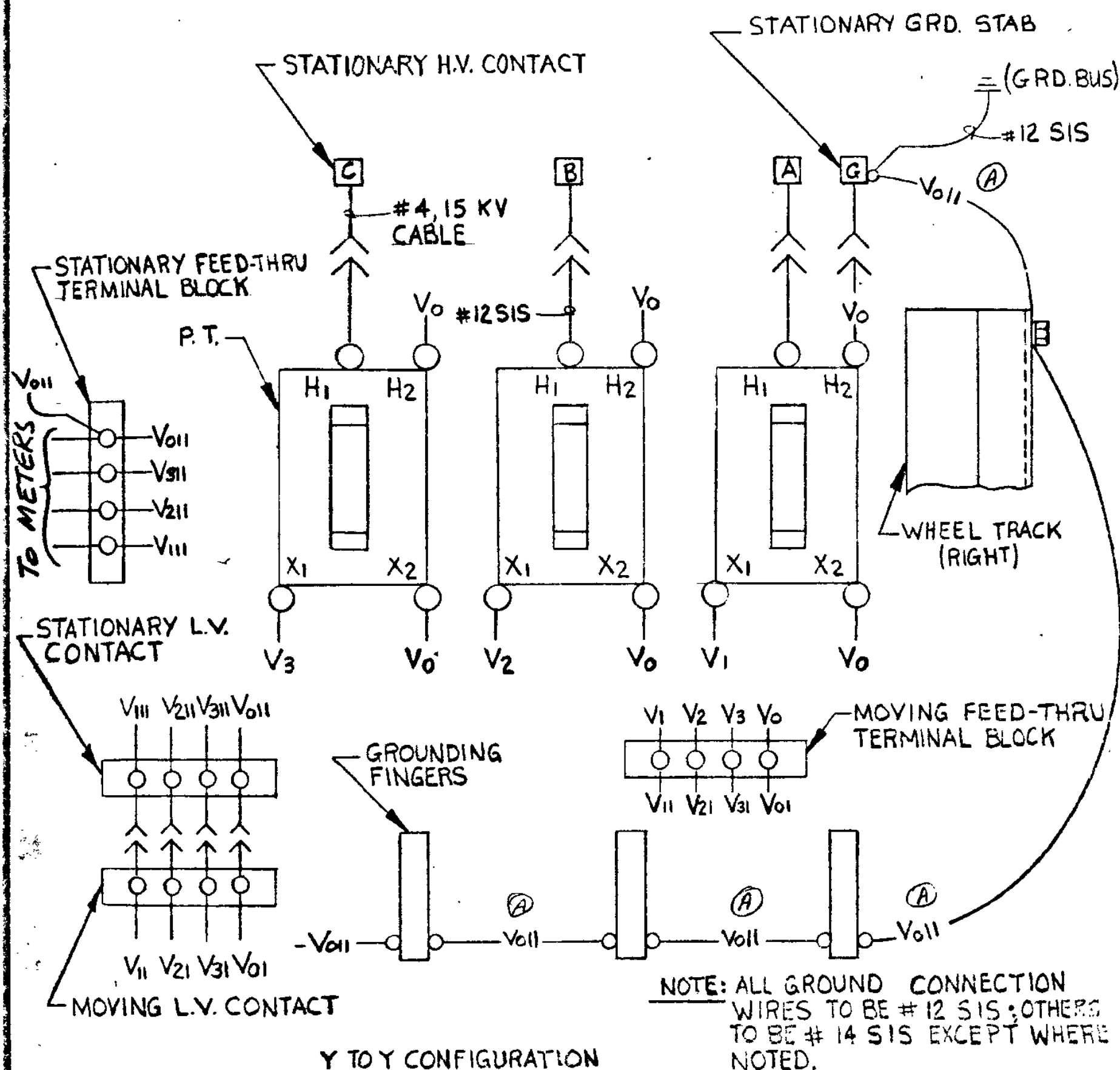
SCALE	DRAWN	CHKD.	DATE	C.R.
~	LMS		9-6-78	10-1-0210

TITLE		SQUARE D COMPANY BARKELEW PLANT MIDDLETOWN, OHIO USA
WIRELESS DIAGRAM - 2 PT. FRONT MOUNT		

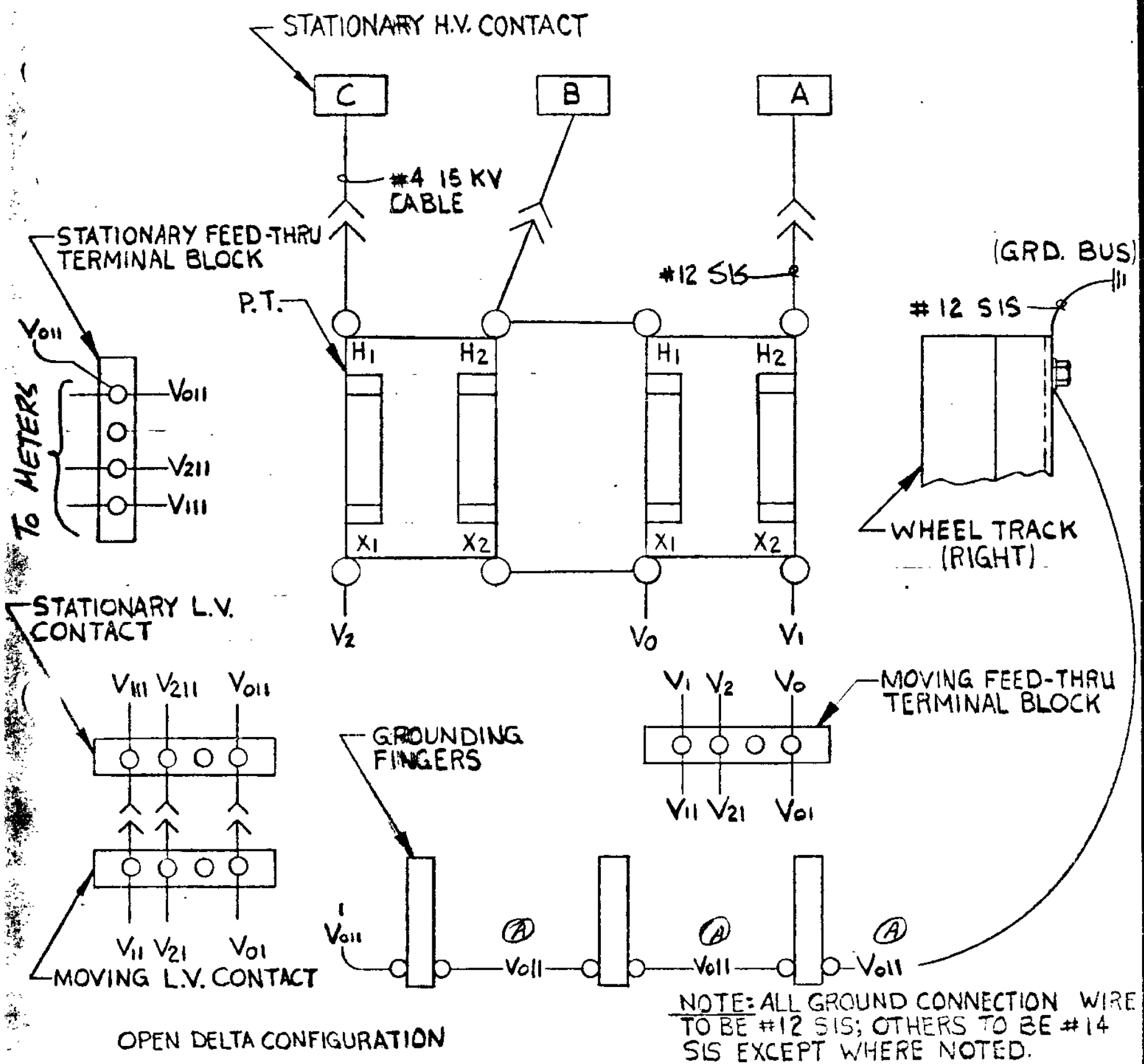
USED ON		A44061-390
DRAWOUT P.T. CARRIAGE RAWSTOCK		

PRINTS TO									

A B C D E F G



REV.	C.R.	DATE	BY	DO NOT SCALE - WORK TO DIMENSIONS									
A	MC-1 C-210	1-23-80	LMS	STANDARD TOLERANCE UNLESS OTHERWISE SPECIFIED		LINEAL DIM.		TWO PLACE DECIMAL $\pm .020$ THREE PLACE DECIMAL $\pm .008$					
						HOLE DIA.		FRACTIONAL, LETTER, OR NUMBERED DRILL $+ .004$ THREE PLACE DECIMAL $\pm .002$ $- .002$					
						ANGLE		DIMENSIONED $\pm 1^\circ$ $UNDIMENSIONED 90^\circ \pm 2^\circ$					
				SCALE	DRAWN	CHKD.	DATE	C.R.	 SQUARE D COMPANY BARKELEW PLANT MIDDLETOWN, OHIO USA				
				~	LMS		9-6-78	MC-1-C210					
				TITLE WIRELESS DIAGRAM - 3 P.T. REAR MOUNT									
PRINTS TO				USED ON					A44061-391				
				DRAWOUT P.T. CARRIAGE									
				RAWSTOCK									
A	B	C	D	E	F	G							



REV.	C. R.	DATE	BY
A	MSZ	1-23-80	LMS

DO NOT SCALE - WORK TO DIMENSIONS			
STANDARD TOLERANCE UNLESS OTHERWISE SPECIFIED	LINEAL DIM.	TWO PLACE DECIMAL $\pm .020$ THREE PLACE DECIMAL $\pm .008$	
	HOLE DIA.	FRACTIONAL, LETTER, OR NUMBERED DRILL $+ .004$ THREE PLACE DECIMAL $\pm .002$ $- .002$	
	ANGLE	DIMENSIONED $\pm 1^\circ$ UNDIMENSIONED $90^\circ \pm 2^\circ$	

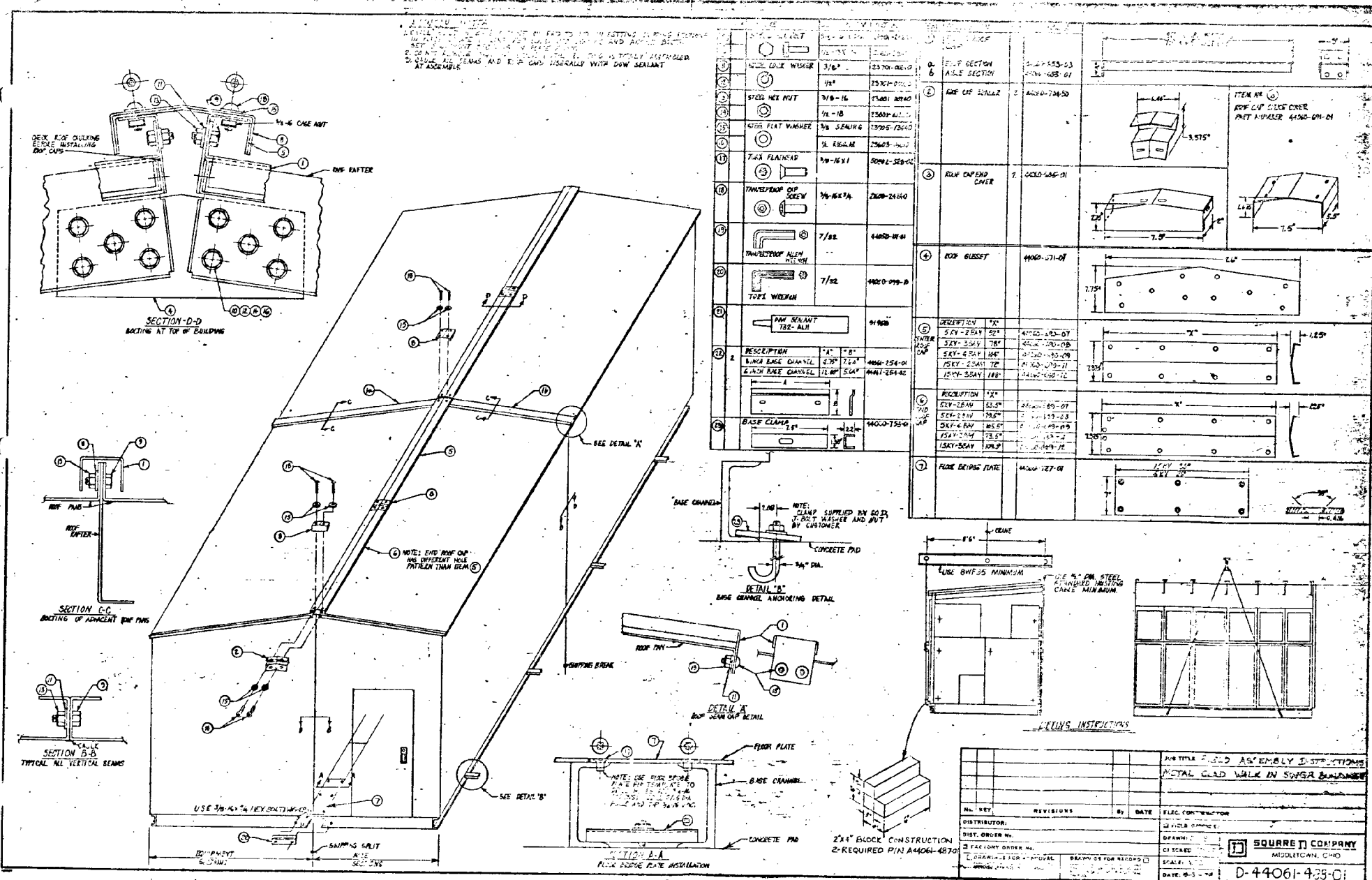
SCALE	DRAWN	CHKD.	DATE	C. R.
~	LMS		9-6-78	MC-1-C210

TITLE		SQUARE D COMPANY BARKELEW PLANT MIDDLETOWN, OHIO USA
WIRELESS DIAGRAM - 2 P.T. REAR MOUNT		

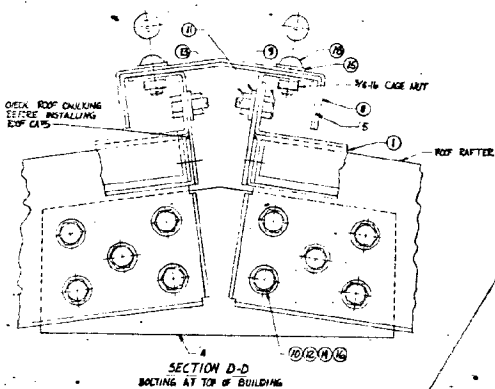
USED ON		A44061-392
DRAWOUT P.T. CARRIAGE RAWSTOCK		

PRINTS TO	
A	B

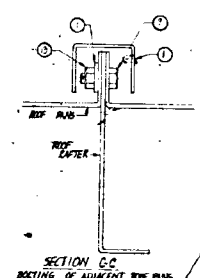
A B C D E F G



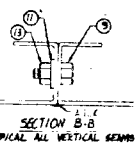
1. GENERAL: SEE 1-100.
 2. INSTALL BUILDING BASE AS SHOWN IN P.D. 10 AND 11 - SETTING IN P.D. 10 AND 11.
 3. IN PLACE, MAKE A 1/4" HOLE FOR NO. 10 P. 10 AND NO. 10 P. 11.
 4. SET EQUIPMENT SECTIONS IN PLACE PER P.D. 10.
 5. DO NOT REMOVE SHIPMENT PLATE UNTIL BUILDING IS TYPICALLY ASSEMBLED.
 6. SECURE ALL SEAMS AND JOINTS LIBERALLY WITH EOW SEALANT AT ASSEMBLY.



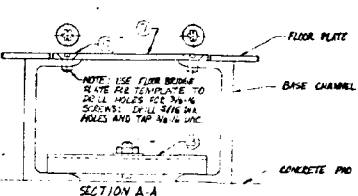
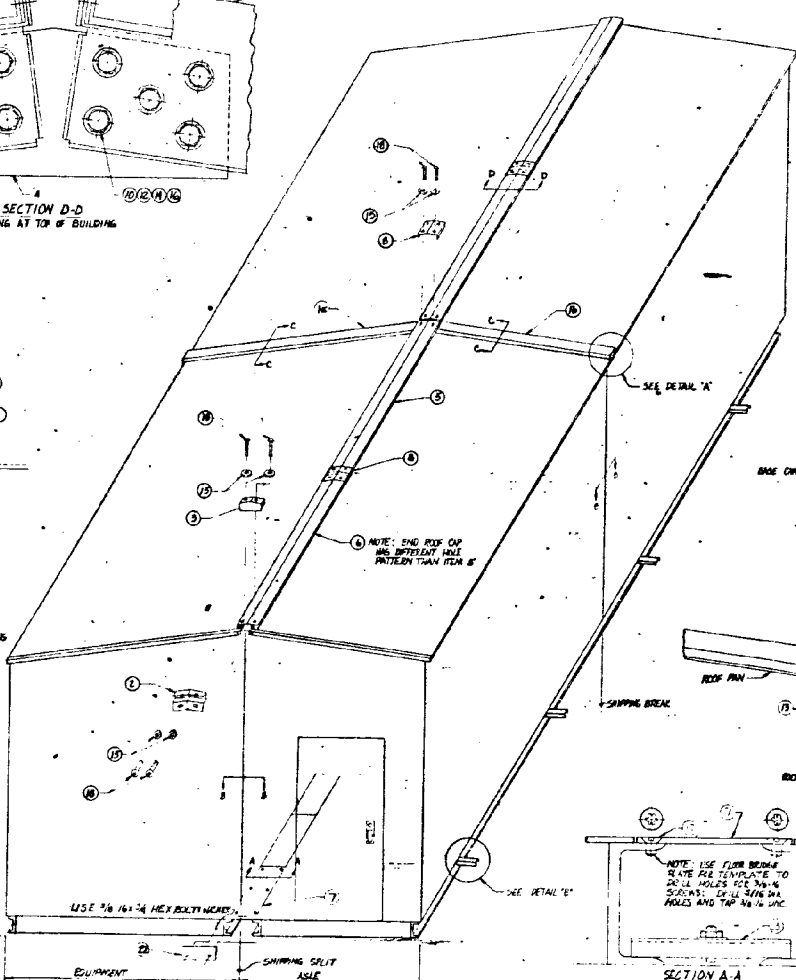
SECTION D-D
 DETAIL OF ROOF CHUCKING



SECTION C-C
 DETAIL OF ADJACENT ROOF PANS

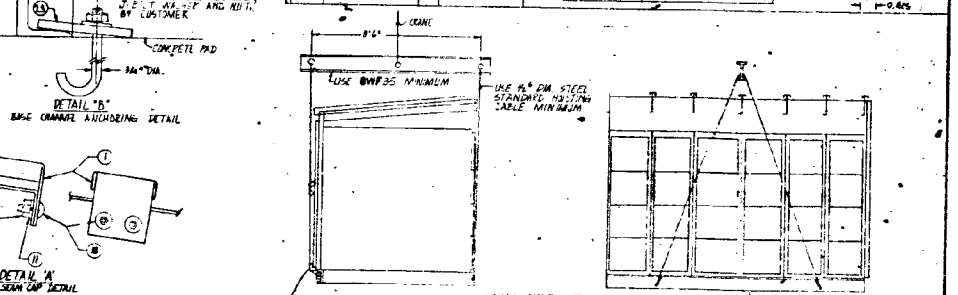


SECTION B-B
 TYPICAL ALL VERTICAL SEAMS

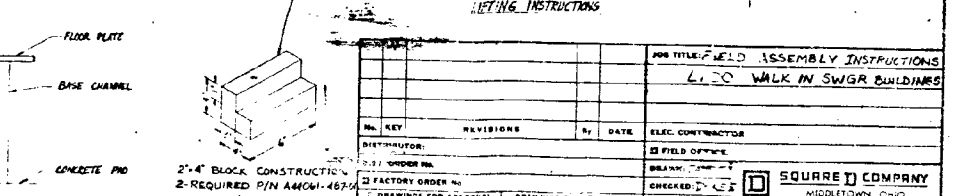


SECTION A-A
 FLOOR BRIDGE PLATE INSTALLATION

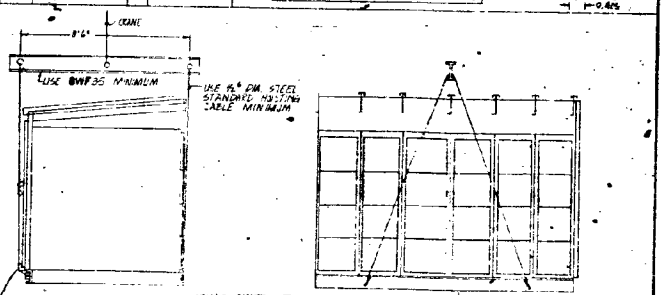
ITEM	DESCRIPTION	QTY	UNIT	REMARKS
1	STEEL ROOF RAIL	1	EA	1/4\"/>



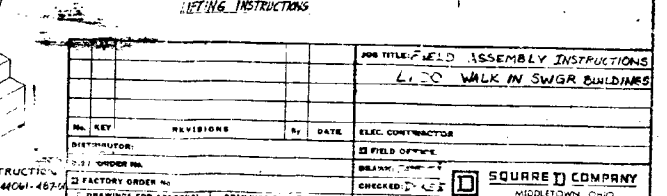
DETAIL 'X'
 BASE CHANNEL ANCHORING DETAIL



DETAIL 'Y'
 ROOF SEAM CAP DETAIL



DETAIL 'Z'
 ROOF BRIDGE PLATE



DETAIL 'W'
 ROOF BRIDGE PLATE

NO.	KEY	REVISIONS	BY	DATE
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

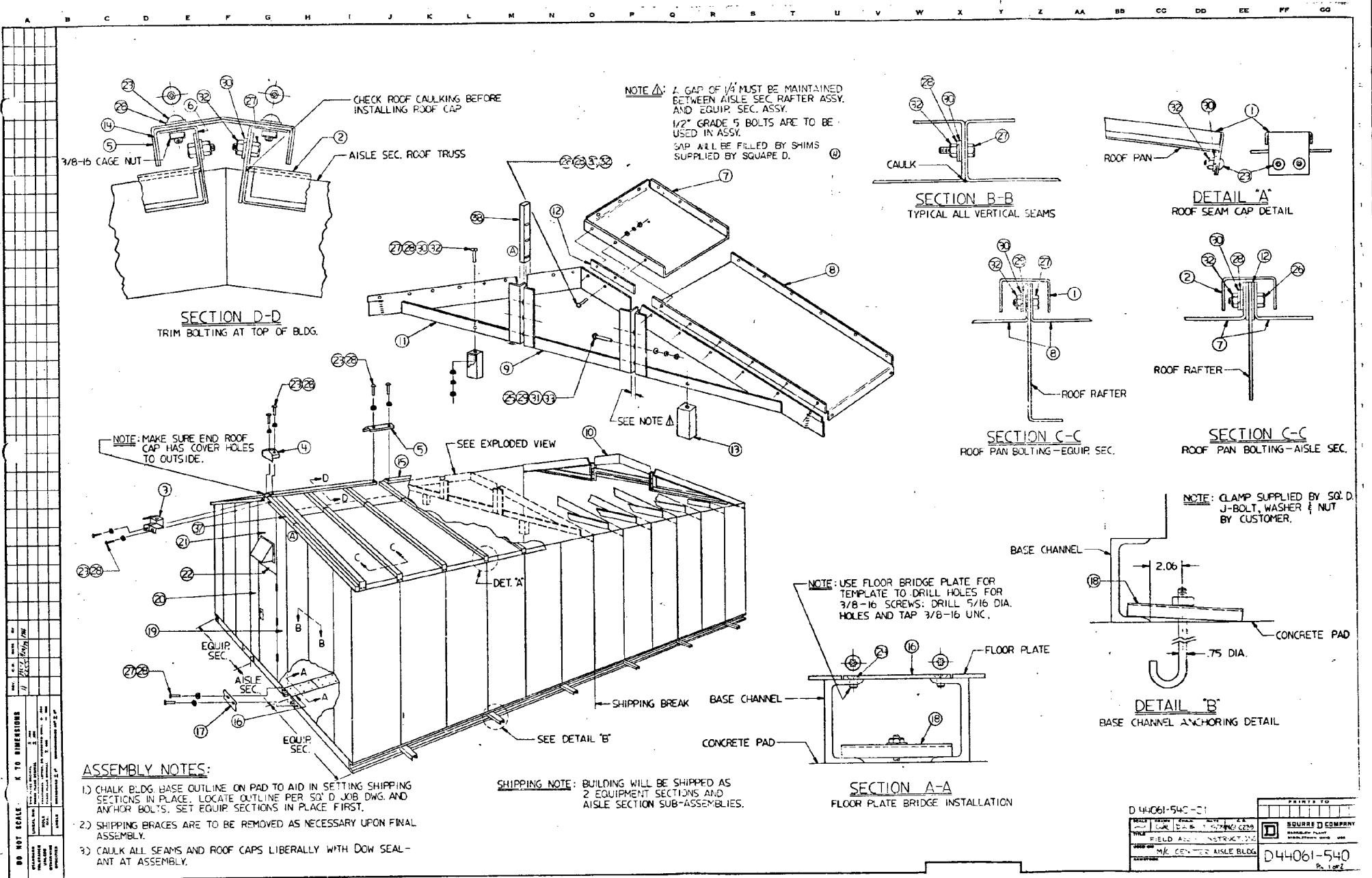
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31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

1	2	3	4	5	6	7	8	9	10
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31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

1	2	3	4	5	6	7	8	9	10
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41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
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41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100



OUTDOOR WALK-IN CONTROL HOUSE ASSEMBLY PROCEDURE

(FOR ADDITIONAL DETAILS SEE DWG. #100-41001, IS. #1)

1. REMOVE ALL EXTERIOR PROTECTIVE SHIELDING AND WOODEN FRAMEWORK BEFORE LINING UP OF SHIPPING SECTIONS. DO NOT REMOVE ANY INTERIOR ROOF BRACING OR GUY WIRES LOCATED IN EACH SHIPPING SECTION BEHIND PROTECTIVE SHIELDING.
2. RIGGER SHALL MOVE EQUIPMENT SECTION INTO POSITION FIRST. LEVEL WITH STEEL SHIMS (SHIMS NOT SUPPLIED) IF NECESSARY.
3. MOVE AISLE SECTIONS INTO POSITION FOR ALIGNMENT WITH EQUIPMENT SECTIONS. CORRECT ALIGNMENT IS ACHIEVED WHEN ALL HOLES IN AISLE PANELS OF AISLE SECTION ALIGN WITH CORRESPONDING HOLES IN EQUIPMENT SECTION.
4. BOLT SECTIONS TOGETHER USING HARDWARE SUPPLIED.
5. INSTALL ALL GUSSET PLATES.
6. INTERIOR ROOF BRACING AND GUY WIRES CAN NOW BE REMOVED AND DISCARDED.
7. PLACE FLOOR FILLER PLATES INTO POSITION. LINE UP AND CLAMP USING HOLES IN PLATES AS LOCATORS FOR 3/8 - 16 FLATHEAD SCREWS (LOTTING).
8. INSTALL ROOF CAPS.
9. AFTER ALL STRUCTURAL JOINING PARTS HAVE BEEN ASSEMBLED, ALL SEAMS TO BE CAULKED WITH DOW CORNING, TYPE #781 SILICON RUBBER.

REVISIONS			 SQUARE D COMPANY MIDDLETOWN, OHIO	DRAWN BY- JRI
				CHECKED BY- F. CLARKE
				DATE- APRIL 22, 1977
				SU- 4362