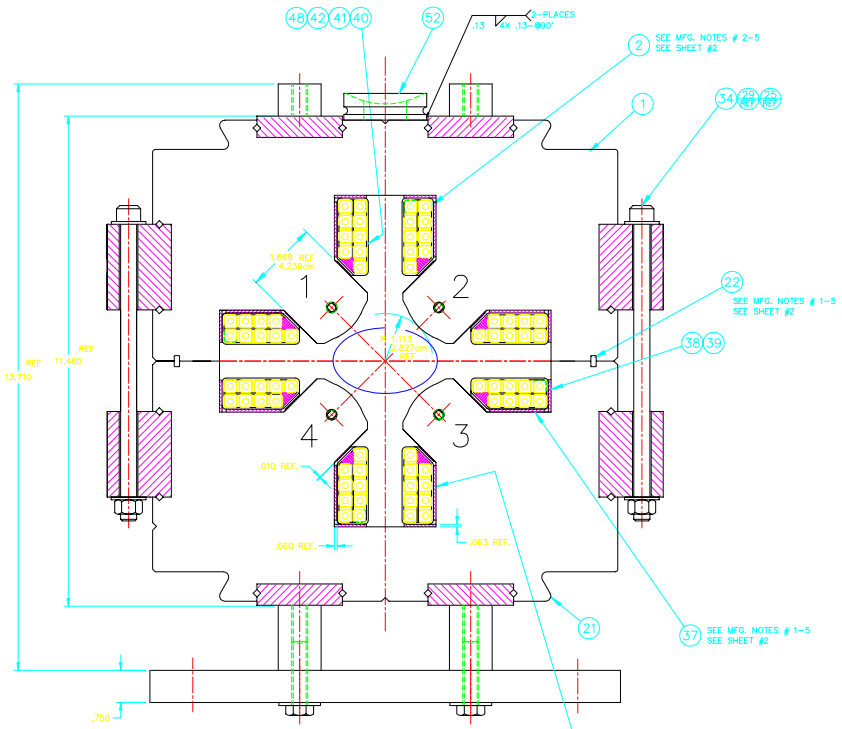
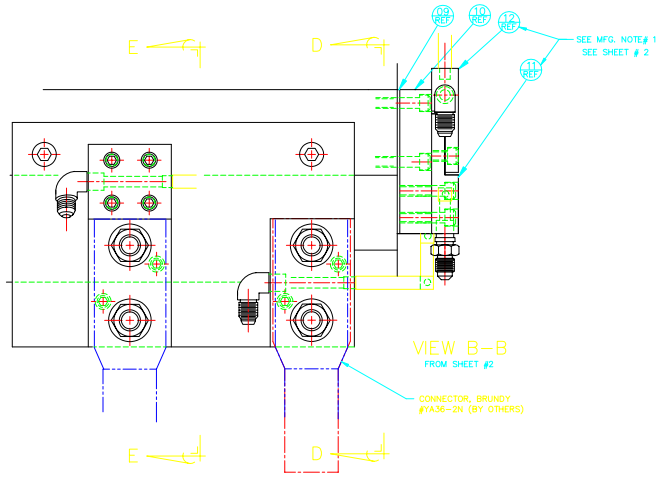
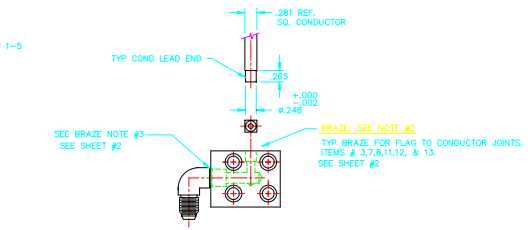
(E) | PLOT SCALE: 1=1.0 | DWG. SCALE: 1.0 | a18753



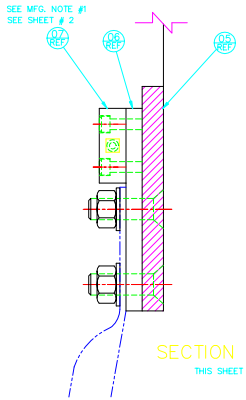
SECTION F-F
FROM SHEET #2
COIL/CORE ASSEMBLY



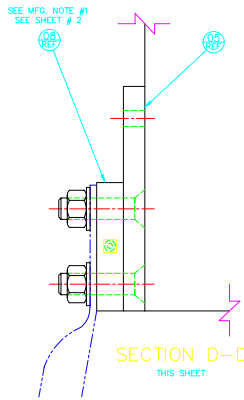
VIEW B-B
FROM SHEET #2



TYPICAL FLAG TO COND. BRAZING
SEE BRAZING NOTE #1
SEE MFG. NOTE #1 (SEE SHEET #2)



SECTION E-E
THIS SHEET



SECTION D-D
THIS SHEET

1 SOURCE: J.J. GLEN AND CO. 390 WEGNER DR. WEST CHICAGO, IL 60185

2 SOURCE: DOW CHEMICAL 2020 DOW CENTER MIDLAND, MI 48640 517/636-1000

3 SOURCE: CABOT CORP.-- CAB-O-SIL DIV. ROUTE 36 WEST TUSCOLA, IL 61953 217/253-3370

4 SOURCE: MORTON INTERNATIONAL 100 N. RIVERSIDE DR. CHICAGO, IL 60606 1-800/257/9596

5 SOURCE: ELECTRO INSULATION CO. 3921 VENTURA DR. ARLINGTON HTS., IL 60004

6 SOURCE: PORTAGE ELECTRIC INC. 7700 FREEDOM AVE. NW NORTH CANTON, OH 44720 216/499-2727

7 SOURCE: OHM ELECTRONICS 746 VERMONY ST. PALATINE, IL 60067 708/359-5500 DIST. OF CINCH PRODUCTS

8 SOURCE: ENGLEWOOD ELECTRIC 1801 NEON AVE. JOLIET, IL 60434 815/725-3900

9 SOURCE: ESSEX PRODUCTS P.O. BOX 1510 FORT WAYNE, IN 46801 219/461-4000

10 SOURCE: PIONEER CHICAGO DIV. 2171 EXECUTIVE DR. SUITE 200 ADDISON, IL 60101

	ITEM	DWG/PART NUMBER	NOMENCLATURE OR DESCRIPTION	MATERIAL / SPEC	QTY
	58	1/4-20 UNC X .25 LG	SOCKET HEAD CAP SCREW	STN STL	4
10	57	AD592AN	PN-JUNCTION	PUR.	2
7	56	#8-140	CINCH - THERMAL BLOCK 8-POST	PUR.	1
	55	3/8 W	FLAT WASHER	STN STL	4
	54	3/8-16 UNC X 1.50"LG	HEX HEAD BOLT	STN STL	4
	53	220102-200001-00	BASE PLATE	SEE DETAIL	1
	52	P5301-00033-00	TARGET CUP	SEE DETAIL	2
	51	1/2-N	FLAT WASHER	STN STL	24
	50	1/2-20 UNF	HEX NUT	STN STL	12
	49	#0-24 UNC X .38 LG	FLAT HEAD CAP SCREW	PUR.	2
9	48	.042	KAPTON TAPE	PUR.	A/R
8	47	PLT1M-C76	TIE STRAP - TEFZEL	PUR.	16
8	46	TM3S10-C76	TIE ANCHOR - TEFZEL	PUR.	2
7	45	#6-140	CINCH - THERMAL BLOCK 6-POST	PUR.	2
6	44	C-101109-071H	THEMAL SWITCH	PUR.	8
5	43	CLASS "B"	GLASS CLOTH ELECTRICAL TAPE	PUR.	A/R
4	42	GRADE M-5	CAB-O-SIL (THICKENING AGENT)	PUR.	A/R
3	41	EM 308	EPOXY	PUR.	50oz
2	40	DER 332	EPOXY	PUR.	16oz
1	39	SECOMET #77	INDUSTRIAL ADHESIVE - HENKEL	PUR.	2
	38	.010 X .75	G10 STOCK X 18.75 LG.	STOCK	8
	37	.010 X 1.38	G10 STOCK X 18.75 LG.	STOCK	8
	36	.010 X .75	G10 STOCK X 18.38 LG.	STOCK	8
	35	#8-32 UNC X .50 LG	SOCKET HEAD CAP SCREW	STN STL	6
	34	3/8-16 UNC X 7.00 LG	SOC. HEAD CAP SCREW	STL- BLACK OXIDE	12
	33	1/4-20 X 1" LG	FL HD CAP SCR	STN STL	4
	32	1/4-N	FLAT WASHER	STN STL	9
	31	1/4-20 UNC	HEX NUT	STN STL	8
	30	1/4-20 UNC X .75 LG	SOCKET HEAD CAP SCREW	STN STL	10
	29	3/8-16 UNC	HEX NUT	STN STL	12
	28	1/2-20 UNF X 1.75 LG	HEX SOC. FLAT CS'K. HD CAP SCREW	STN STL	4
	27	1/4-20 UNC X .625 LG	SOCKET HEAD CAP SCREW	STN STL	6
	26	3/8-16 X 1 LG	FL HEAD CAP SCREW	STN STL	2
	25	3/8-W	FLAT WASHER	STN STL	24
	24	1/4-20 UNC X .5 LG	HEX HEAD CAP SCREW	STN STL	1
	23	1/4-20 UNC X 21.75 LG	THREADED ROD	BRASS	4
	22	1/8 X 1/4 X .75 LG	KEYSTOCK	STL	2
	21	220102-00103-00	LAMINATION CORE - LOWER	SEE DETAIL	1
	20	220102-00098-00	TUBE ASSEMBLY - UPPER	SEE DETAIL	1
	19	220102-00065-00	ECCENTRIC	SEE DETAIL	8
	18	220102-00066-00	STAND-OFF	SEE DETAIL	8
	17	220102-00078-00	INSIDE LOWER FLAG SPACER	SEE DETAIL	1
	16	220102-00077-01	INSIDE LOWER FLAG INSULATOR	SEE DETAIL	1
	15	220102-00081-00	INSIDE UPPER FLAG SPACER	SEE DETAIL	1
	14	220102-00080-01	INSIDE UPPER FLAG INSULATOR	SEE DETAIL	1
	13	220102-00079-01	INSIDE UPPER FLAG	SEE DETAIL	1
	12	220102-00095-01	SMALL LOWER FLAG ASSEM	SEE DETAIL	1
	11	220102-00094-01	LARGE LOWER FLAG ASSEM	SEE DETAIL	1
	10	220102-00085-02	OUTSIDE LOWER FLAG,INSULATOR	SEE DETAIL	1
	9	220102-00084-00	OUTSIDE LOWER FLAG,SPACER	SEE DETAIL	1
	8	220102-00097-02	TERMINAL FLAG ASSEM	SEE DETAIL	1
	7	220102-00093-01	UPPER TERMINAL FLAG ASSEM	SEE DETAIL	1
	6	220102-00055-02	TERMINAL BUSS BAR	SEE DETAIL	1
	5	220102-00054-02	COIL INSULATOR,TERMINAL	SEE DETAIL	1
	4				
	3	220102-00096-01	INSIDE LOWER FLAG ASSEM	SEE DETAIL	1
	2	220102-00032-00	COIL WINDING	SEE DETAIL	4
	1	220102-00038-04	LAMINATED CORE - UPPER	SEE DETAIL	1

PARTS LIST

INJECTOR SYNCHROTRON
QUADRUPOLE MAGNET - ASSEMBLY
220102-00046-03
a1875303
SHEET 1 OF 3

DW	CHANGE DESCRIPTION	BY	CHKD	DATE
03	SEE DCN # 940531-02	SHOO	JOHN	
02	SEE DCN # 930510-01	SHOO	JOHN	
01	SEE DCN # 920717-03	SH	7/92	

REVISIONS

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES
TOLERANCES
DECIMALS ANGULAR
X ± ± °
XX ± ±
XXX ±
SURFACE ROUGHNESS √
MATERIAL: SEE PARTS LIST
FINISH: SEE PARTS LIST
MAGNET NOTE 1: IS A MAGNETIC MATERIAL
MAGNET NOTE 2: IS A NON MAGNETIC MATERIAL
DO NOT SCALE DRAWING

LOG NUMBER A1875303
DRAWN BY M. HARKINS/CJD 7-9-96
CHECKED BY M. HARKINS
APPROVED/CHECKED
MATERIAL
DATE
QA
PROJECT MGR
APPROVED/RELEASED
SCALE 1:1
SHEET 1 of 3
SIZE E

THIS DRAWING IS THE PROPERTY OF ARGONNE NATIONAL LABORATORY

TITLE ADVANCED PHOTON SOURCE
INJECTOR SYNCHROTRON QUADRUPOLE MAGNET ASSEMBLY

DRAWING NUMBER 220102-00046-03