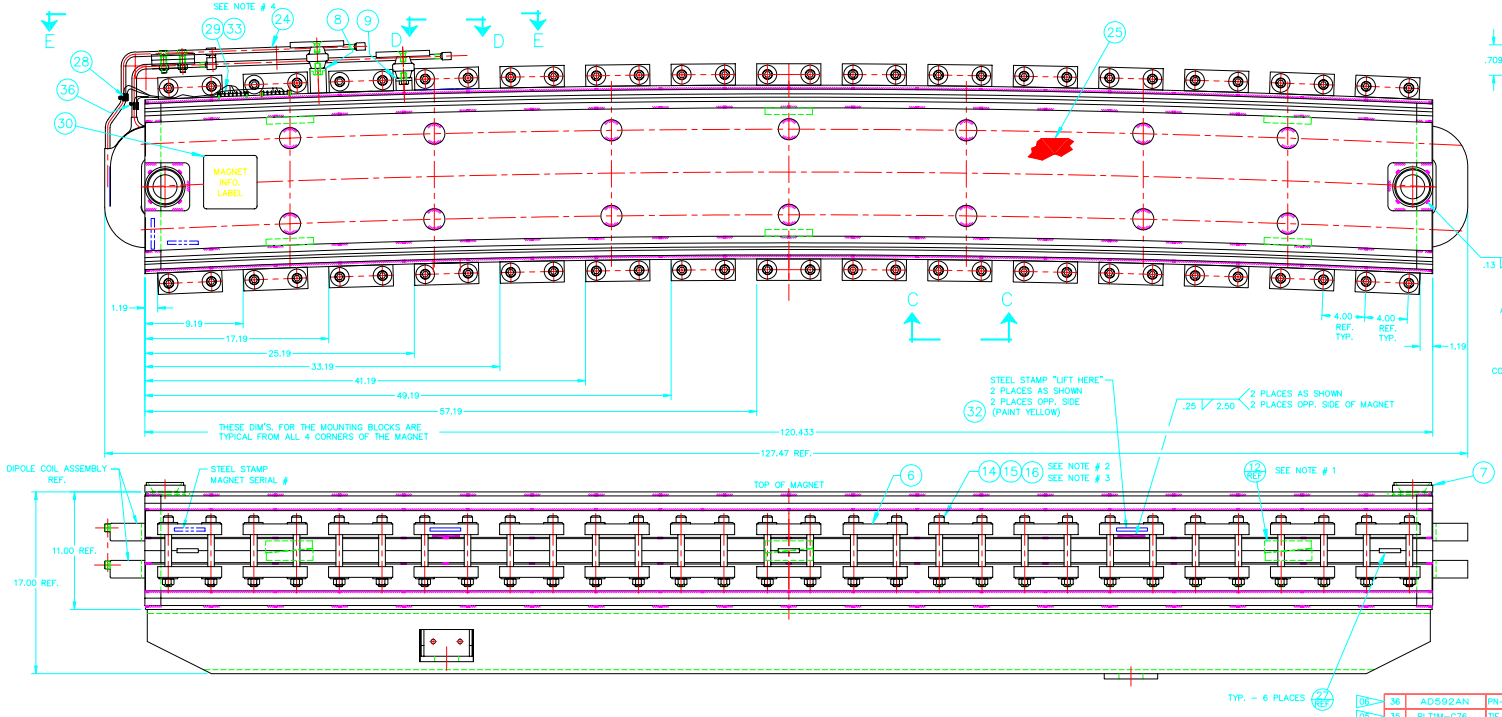
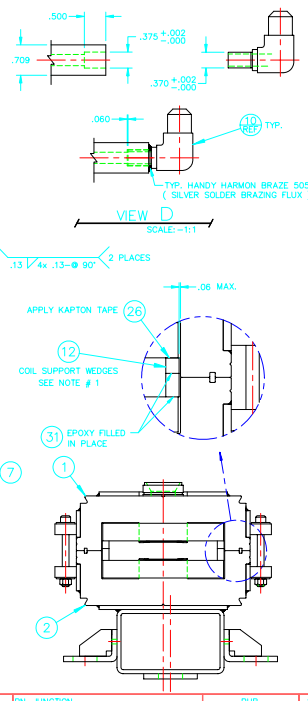
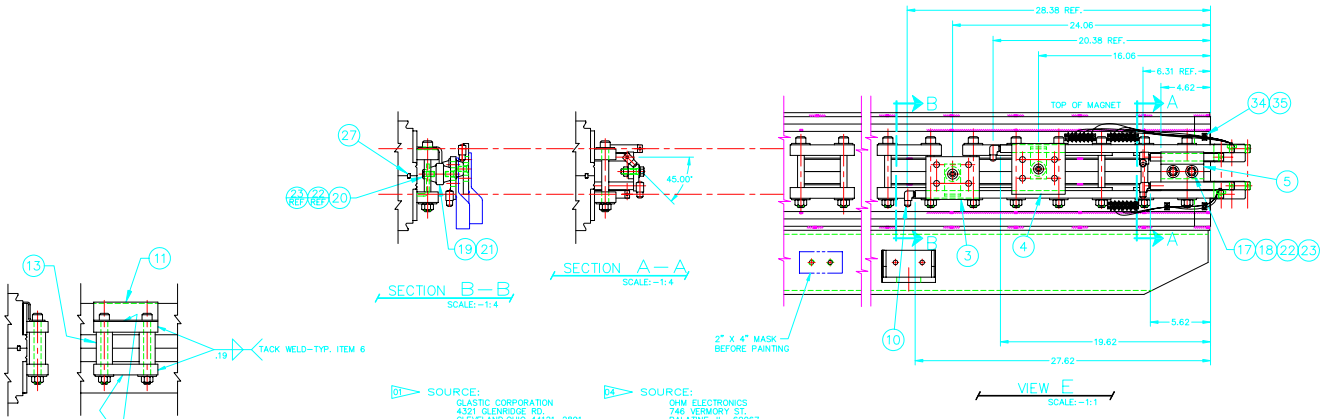
(E)	PLOT SCALE: 1=4	DWG. SCALE: 4	A10765







ITEM	DWG/PART NUMBER	NOMENCLATURE OR DESCRIPTION	MATERIAL / SPEC	QTY
36	AD592AN	PN–JUNCTION	PUR.	2
35	PLT1M–C76	TIE STRAP – TEFZEL	PUR.	3
34	TM3S10–C76	TIE ANCHOR – TEFZEL	PUR.	3
33	#8–32 X .38 LG.	ROUND HEAD CAP SCREW	STEEL	6
32	INSL–X GU2523	PAINT, YELLOW	PUR.	A/R
31		EPOXY	PUR.	A/R
30		MAGNET INFORMATION LABEL		1
29	6–140	TERMINAL STRIP – CINCH (6 TERMINALS)	PUR.	3
28	C–101109–071H	THERMOSWITCH – 71°C (160°F)	PUR.	4
27	.25 X .38 X 1.5 LG.	KEYSTOCK	STEEL	6
26	.005 THK. X .50 WIDE	KAPTON TAPE – STICKY BACK	PUR.	A/R
25	INSL–X GU2502	PAINT, RED	PUR.	A/R
24	1.00 WIDE X .02 THICK	TAPE, AIR CURE, RED	SILICONE	A/R
23	– ø.500 –	LOCKWASHER	STAINLESS STL.	6
22	– ø.500 –	FLAT WASHER	STAINLESS STL.	6
21	2015–4C	CP INSULATOR	PUR.	2
20	1/2–13 UNC x 1.00 LG.	HEX HEAD BOLT	STAINLESS STL.	2
19	1/2–13 UNC x 1.00 LG.	FLAT HEAD SOCKET CAP SCREW	STAINLESS STL.	2
18	1/2–13 UNC THD.	HEX NUT	STAINLESS STL.	2
17	1/2–13 UNC x 1.75 LG.	HEX HEAD BOLT	STAINLESS STL.	2
16	5/8–11 UNC THD.	HEX NUT	BLACK OXIDE	60
15	#.625 "N" SERIES	WASHER	BLACK OXIDE	120
14	5/8–11 UNC x 6.00 LG.	SOCKET HEAD CAP SCREW	BLACK OXIDE	60
13	220101–00238	SPACING BLOCK	SEE DETAIL	4
12	220101–00249	COIL SUPPORT	SEE DETAIL	12
11	220101–00239	MOUNTING BRACKET # 1	SEE DETAIL	1
10	220101–00234	MODIFIED TUBE ELBOW	SEE DETAIL	4
9	220101–00233	INSULATOR BRACKET # 2	SEE DETAIL	1
8	220101–00232	INSULATOR BRACKET # 1	SEE DETAIL	1
7	P5301–00026	SURVEY & ALINEMENT SYSTEMS CUP	SEE DETAIL	3
6	220101–00236	MOUNTING BLOCK # 1	SEE DETAIL	60
5	220101–00231	JUMPER DETAIL	SEE DETAIL	2
4	220101–00235	FLAG DETAIL # 2	SEE DETAIL	1
3	220101–00230	FLAG DETAIL #1	SEE DETAIL	1
2	220101–00298	COIL/CORE ASSY. – LOWER HALF	SEE DETAIL	1
1	220101–00299	COIL/CORE ASSY. – UPPER HALF	SEE DETAIL	1

PARTS LIST

01 SOURCE:
GLASTIC CORPORATION
4321 GLENRIDGE RD.
CLEVELAND,OHIO 44121–2891
(216)486–0100
FAX:(216)486–1091

02 SOURCE:
ESSEX PRODUCTS
P.O. BOX 1510
FORT WAYNE, IN 46801
(219)461–4000

03 SOURCE:
PORTAGE ELECTRONIC INC.
7700 FREEDOM AVE. NW
NORTH CANTON, OH 44720
(216)499–2727

04 SOURCE:
OHM ELECTRONICS
746 VERMORY ST.
PALATINE, IL 60067
(708)359–5500

05 SOURCE:
ENGLEWOOD ELECTRIC
1801 NEON AVE
JOLIET, IL 60434
(815)725–3900

06 SOURCE:
PIONEER CHICAGO DIV.
2171 EXECUTIVE DRIVE, SUITE 200
ADDISON, IL 60101

NOTES:
1. INSERT COIL SUPPORTS USING TOOL NUMBER 220101–00247 APPLY SMINURE EPOXY (ITEM 31) TO INSIDE OF WEDGES TO ALLOW FOR KEEPING SEMI–PERMINENT HEIGHT. APPLY KAPTON ON ONE SIDE OF WEDGE, OTHER SIDE TO BE GLUED TO COIL.
2. AFTER ALL BRACKETS ARE WELDED, TORQUE BOLTS (ITEM 14) TO 150 LBS. AND THEN DISASSEMBLE CORES.
3. TORQUE CORE BOLTS – (ITEM 14) TO 50 FT. LBS.IN FINAL ASSEMBLY
4. APPLY INSULATING TAPE, (ITEM 24) TO EXPOSED COIL CONDUCTOR LEADS.

DIPOLE ASSEMBLY – TOTAL WEIGHT: 5600 LBS.

SYM	CHANGE DESCRIPTION	BY	CHKD	DATE
03	D.C.N. 930512–14	SH/CO	S/O/A	
02	D.C.N. 920602–02	SH/CO	W/A/A	
01	D.C.N. 920320–01	SH/CO	W/A/A	
00	D.C.N. 910920–01	S.H.	W/A/A	

REVISIONS

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES
TOLERANCES
DECIMALS ANGULAR
.X ±.06 ±.30°
.XX ±.016
.XXX ±.005
SURFACE ROUGHNESS 125

DO NOT SCALE DRAWING

LOG NUMBER A10765
DRAWN BY G.CHERRY DATE 8-4-90
CHECKED BY
DESIGNER
RESPONSIBLE ENGINEER
MATERIAL SEE PARTS LIST

THIS DRAWING IS THE PROPERTY OF ARGONNE NATIONAL LABORATORY

TITLE ADVANCED PHOTON SOURCE INJECTOR SYNCHROTRON DIPOLE MAGNET FLAG LAYOUT WITH WATER CONNECTIONS

SCALE 1:4 SHEET 1 of 1 SIZE E DRAWING NUMBER 220101–00229–03