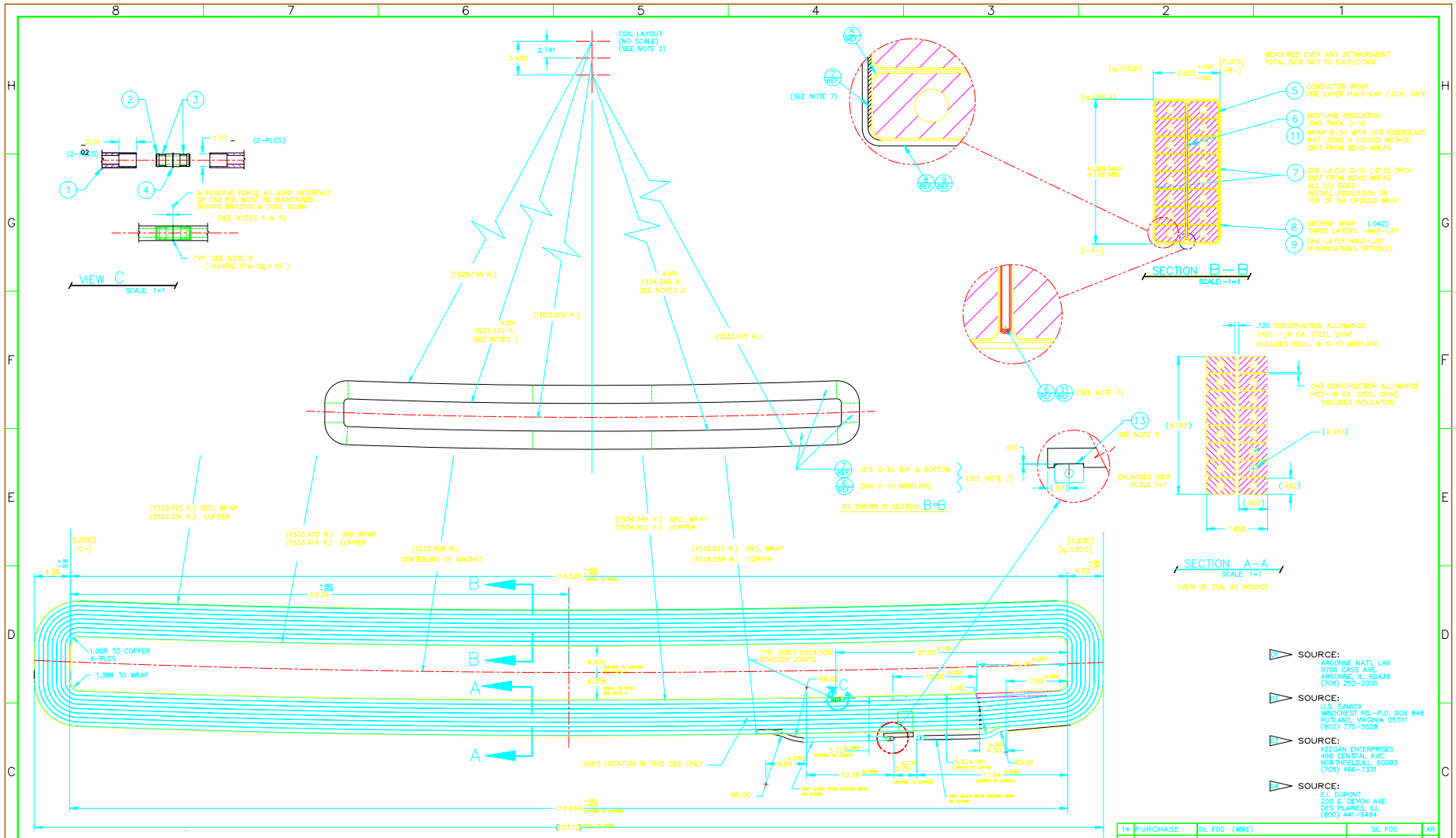
(E)	PLOT SCALE: 1=4	DWG. SCALE: 4	A10485



NOTES:

1.) FABRICATE COIL PER SPECIFICATION NO. 310101-00012

2.) THESE DIM'S. ARE DETERMINED BY WINDING FIXTURE NO. P310101-00139 SUPPLIED BY ANL.

3.) TEDLAR TAPE (ITEM 9) MAY BE USED TO PREVENT EXCESSIVE EPOXY BUILD UP. (AT THE FABRICATER OPTION)

4.) PRIOR TO APPLICATION OF ITEM 5 DO A HELIUM LEAK CHECK. PRESSURIZE COIL TO 150 P.S.I.G. AND LEAK TEST ALL JOINTS USING A HELIUM LEAK DETECTOR WITH A SENSITIVITY OF 10^{-12} ATM CC/SEC. He.

5.) PRIOR TO APPLICATION OF ITEM 5 ALSO DO A HYDROSTATIC LEAK CHECK. PRESSURIZE COIL TO 1000 P.S.I. AND WITH VALVE OFF FROM SYSTEM FOR 1/2 HOUR AFTER THIS TIME, NO LEAK SHALL BE FOUND.

6.) POSITIONAL TOLERANCES APPLY TO FINISHED (IMPREGNATED) COIL.

7.) KEEP G-10, ITEMS 6 & 7 BACK FROM EDGES OF CONDUCTOR BY 1/16"

8.) BRAZE - USE "SILFOS 15" (1185°F)
NO FLUX
CLEAN UP - USE WIRE BRUSH

SOURCE:
ARGONNE NAT'L LAB
9700 CASS AVE.
ARGONNE, IL. 60439
(708) 252-2000

SOURCE:
U.S. SAMICA
WINDCREST RD.-P.O. BOX 848
RUTLAND, VIRGINIA 05701
(802) 775-5528

SOURCE:
KEEGAN ENTERPRISES
466 CENTRAL AVE.
NORTHFIELD,ILL. 60093
(708) 466-7331

SOURCE:
E.I. DUPONT
200 E. DEVON AVE.
DES PLAINES, ILL.
(800) 441-9494

ITEM	DWG/PART NUMBER	NOMENCLATURE OR DESCRIPTION	MATERIAL / SPEC.	QTY.
14	PURCHASE	SIL FOS (WIRE)	SIL FOS	AR
13	PURCHASE	.010 X .875 X 1.25 STRIP	SIL FOS	1
12	310101-00080	FLAGG	COPPER	1
11	.010 THICK	FIBERGLASS MAT.	PUR.	AR
10	310101-00076	TRANSITION ASSEMBLY	SEE DWG.	2
9	.002 X 1.00 WIDE	DUPONT TEDLAR TAPE	PUR.	AR
8	.007 X 1.00 W (.020 TYP)	FIBERGLASS TAPE	PUR.	AR
7	.015 X 3.50 X 48.00	NEMA GRADE G-10	PUR	AR
6	.040 X 3.5 X 48.00	NEMA GRADE G-10	PUR	AR
5	.007 X 1.00 WIDE	DRY MICA TAPE G.E. #77986	PUR	AR
4	220101-00243	SLEEVE WASHER	SEE DWG	1
3	220101-00242	SLEEVE RING	SEE DWG.	2
2	220101-00241	COIL SLEEVE	SEE DWG.	1
1	310101-00011	COPPER CONDUCTOR	SEE DWG.	AR

PARTS LIST

STORAGE RING
TECHNICAL COMPONENTS
DIPOLE MAGNETS
LOWER TOP COIL
ASSEMBLY
A10485
310101-00053-02

REVISIONS			
02	SEE DCN 930426-02	SH	4/8/93
01	SEE DCN 921117-06	CRD	10/8/92
SYM	CHANGE DESCRIPTION	BY	DATE

DO NOT SCALE DRAWING

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES
TOLERANCES
DECIMALS ANGULAR
.XX ± .01 ±
.XXX ± .005
SURFACE ROUGHNESS √

DRAWN BY TOM CRAIN 11/8/91
CHECKED BY
ENGINEER TOM CRAIN 11/8/91
SUPERVISOR
PROJECT MGR.
APPROVED/RELEASED

DWG NUMBER A10485
THIS DRAWING IS THE PROPERTY OF ARGONNE NATIONAL LABORATORY
TITLE ADVANCED PHOTON SOURCE
STORAGE RING
TECHNICAL COMPONENTS
DIPOLE MAGNETS
LOWER TOP COIL
ASSEMBLY
MATERIAL SEE PARTS LIST
SCALE 1=4
SHEET 1 of 1
SIZE E
DWG NUMBER 310101-00053-02