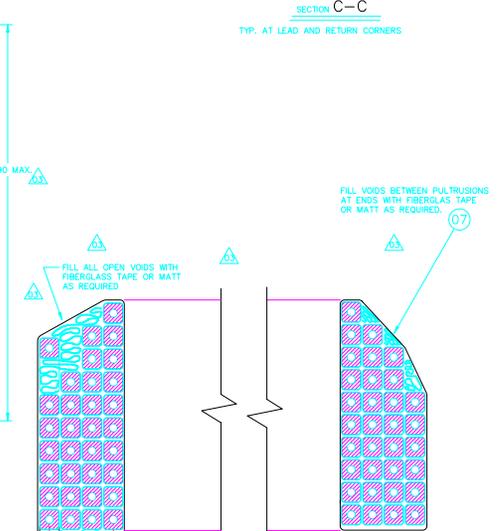
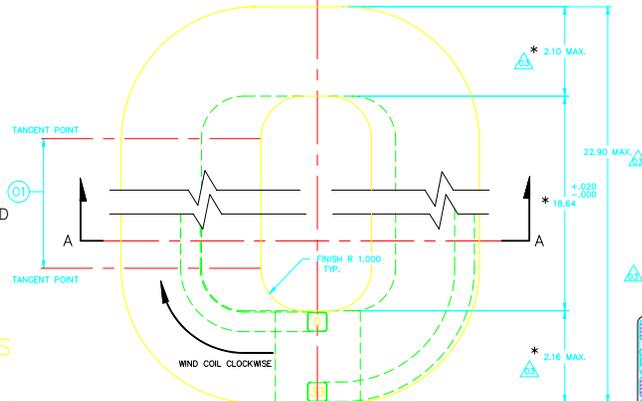


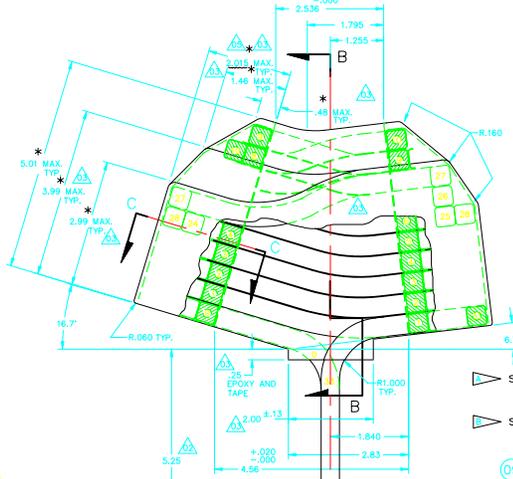
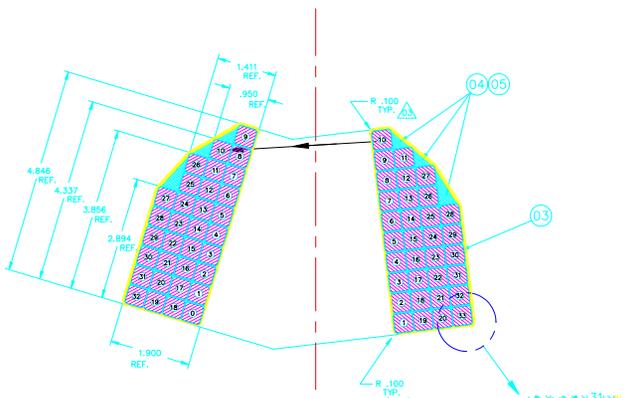
INSULATORS BETWEEN LAYERS SEE NOTE 4



SECTION B-B
COIL IS SHOWN IN MAXIMUM CONDITION
NOTES; UNLESS OTHERWISE SPECIFIED.

1. ALL DIMENSIONS ARE TO THE VERTICES OF MATING SURFACES.
2. ALL MARKED * DIMENSIONS TO BE FULLY INSPECTED.
3. THIS COIL IS DESIGNED WITH A .018 MANUFACTURING ALLOWANCE BETWEEN CONDUCTORS IN THE VERTICAL DIRECTION (10 TURNS) AND A .002 ALLOWANCE IN THE HORIZONTAL DIRECTION (4 TURNS). THIS DRAWING SHOWS THE CONDUCTOR WOUND IN THE MINIMUM CONDITION.
4. ALTERNATE DESIGN ALLOWS A .002 THK. HALF LAP OF KAPTON TAPE INSULATION IN PLACE OF G-10 STRIPS. THE TAPE IS TO BE WRAPPED UNDER THE .007 THK. FIBERGLASS CONDUCTOR WRAP.

STORAGE RING
TECHNICAL COMPONENTS
.5M QUADRUPOLE MAGNETS
R.H. COIL ASSEMBLY
-WP-
31010203-00004-05 A16664



SOURCE: ARGONNE NATL LAB ARGONNE, ILL. 60439
SOURCE: PARKER HANNIFIN WOLFFLE, OHIO 44092 216-943-3129

ITEM	QUANTITY	DESCRIPTION	MANUFACTURE OR SOURCE	MATERIAL	SPEC.	UNIT
10	1	GFNTX-B FITTING, 37° FLARE CAP		BRASS		2
09	1					
08	1	310102-00204 TRANSITION ASSEMBLY		STN. STL./COPPER		2
07	1	EPHOXY		SEE SPEC.		A/R
06	1	TAPE, FIBERGLASS		SEE SPEC.		A/R
05	1	310000-00002 PULTRUSIONS X 16.56 LG.		HAYSITE		2
04	1	310000-00003 PULTRUSIONS X 16.56 LG.		HAYSITE		4
03	1	310102-00077 COPPER CONDUCTOR 139 FT. LG.		COPPER		1
02	1	STRIPS .020 THK. SIZE TO SUIT		G-10		A/R
01	1	STRIPS .020 THK. X .44 X 16.64 LG.		G-10		58

CONDUCTOR WRAP - .007 THICK GLASS TAPE, HALF LAP (.014)
FIRST GROUND WRAP .007 GLASS TAPE, HALF LAP (.014)
SECOND GROUND WRAP .007 GLASS TAPE, HALF LAP (.014)

VIEW D
SCALE: 2=1
SEE NOTE 3

ARGONNE NATIONAL LABORATORY
A16664
ADVANCED PHOTON SOURCE
STORAGE RING
TECHNICAL COMPONENTS
.5M QUADRUPOLE MAGNET
R.H. COIL ASSEMBLY
-WP-
SEE SPEC. NO. 310102-0007
31010203-00004-05