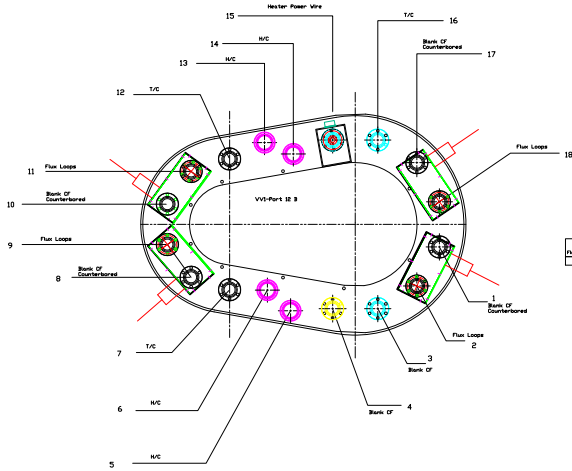
NO.	REVISION	BY	CH	SUP	APPROVED	DATE



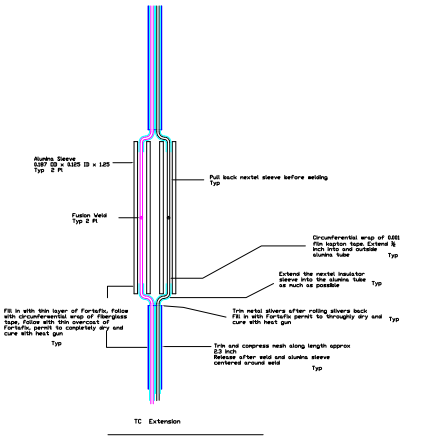
Flange No.	FUNCTION	TAG	FEEDTHROUGH	FITTINGS AND HARDWARE	TERMINATIONS
1	Flux Loops	None	None	Counterbored 075 Blind Of Flange	None
2	Flux Loops		Silicone Rubber	Port Blind 075 Of with 5870 drilled holes	Junction Box
3	None	None	None	Blind 075 Of FLANGE	None
4	None	None	None	Blind 075 Of FLANGE	None
5	Heating and Cooling Aux		075 Of Flange	Bolzano	Welded Tube
6	Heating and Cooling Aux		075 Of Flange	Bolzano	Welded Tube
7	Thermocouples		Glass Sealed Glass 304 SS Of Flange with 20 Pin Amphenol Connector	Type E Crimp-Push Pins	MS Style Circular Connector
8	Flux Loops	None	None	Counterbored 075 Blind Of Flange	None
9	Flux Loops		Silicone Rubber	Port Blind 075 Of with 5870 drilled holes	Junction Box
10	Flux Loops	None	None	Counterbored 075 Blind Of Flange	None
11	Flux Loops		Silicone Rubber	Port Blind 075 Of with 5870 drilled holes	Junction Box
12	Thermocouples		Glass Sealed Glass 304 SS Of Flange with 20 Pin Amphenol Connector	Type E Crimp-Push Pins	MS Style Circular Connector
13	Heating and Cooling Aux		075 Of Flange	Bolzano	Welded Tube
14	Heating and Cooling Aux		075 Of Flange	Bolzano	Welded Tube
15	Strip Electric Heaters		Silicone Rubber	Port Blind 075 Of with 5870 drilled holes	Junction Box with 16 Pin Amphenol Connector
16	Thermocouples		Glass Sealed Glass 304 SS Of Flange with 20 Pin Amphenol Connector	Type E Crimp-Push Pins	MS Style Circular Connector
17	Flux Loops	None	None	Counterbored 075 Blind Of Flange	None
18	Flux Loops		Silicone Rubber	Port Blind 075 Of with 5870 drilled holes	Junction Box

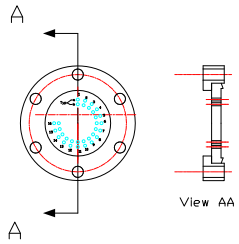
Flange No.	TAG No.	Hole Position	2 Sub Connector Pin #
2	XX3	1	1 and 14
	AA1	2	2 and 15
	BB4	3	3 and 16
	CC5	4	4 and 17
	FF2	5	5 and 18
	TH3-3	6	6 and 19
	TH3-4	7	7 and 20
	TH3-5	8	8 and 21
		9	
		10	
		11	
		12	
		13	
		14	
		15	
		16	

Flange No.	TAG No.	Hole Position	2 Sub Connector Pin #
9	JJ3	1	1 and 14
	KK9	2	2 and 15
	LL9	3	3 and 16
	MM3	4	4 and 17
	NN8	5	5 and 18
	NN1	6	6 and 19
		7	
		8	
		9	
		10	
		11	
		12	
		13	
		14	
		15	
		16	

Flange No.	TAG No.	Hole Position	2 Sub Connector Pin #
11	JJ7	1	1 and 14
	EE4	2	2 and 15
	FF4	3	3 and 16
	FF3	4	4 and 17
	GG5	5	5 and 18
	GG9	6	6 and 19
	GG11	7	7 and 20
	HH6	8	8 and 21
	HH9	9	9 and 22
		10	
		11	
		12	
		13	
		14	
		15	
		16	

Flange No.	TAG No.	Hole Position	2 Sub Connector Pin #
18	AA1	1	1 and 14
	CC3	2	2 and 15
	CC5	3	3 and 16
	FF2	4	4 and 17
	GG1	5	5 and 18
	GG5	6	6 and 19
	TH5-1	7	7 and 20
	TH5-2	8	8 and 21
		9	
		10	
		11	
		12	
		13	
		14	
		15	
		16	

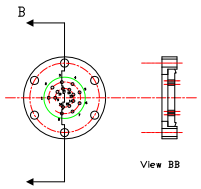


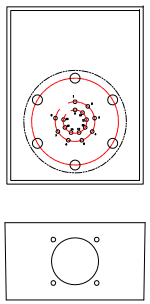


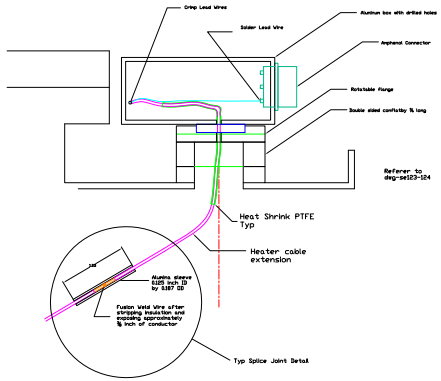
Flange # 2, 9, 11 and 18

Flange No.	TAG No.	Hole Position	
15	1A	1	
	2A	2	
	1B	3	
	1H	4	#1 Spare
	2H	5	
	2A	6	
	2B	7	#2 Spare
	2G	8	
	3A	9	
	3A	10	
	3G	11	#3 Spare
	3B	12	
	4A	13	
	4A	14	
	4B	15	#4 Spare
	4F	16	

Ref Electrical Drawing 0 -------







Flange # 15

George Labik
22July 2007- Rev 1
17Aug 2007

			6		
			5		
			4		
			3		
			2		
			1		
			ASSEMBLY		
03	02	01	PART NO.	NOMENCLATURE OR DESCRIPTION	DRAWING NO. / MATERIAL

COMPUTER GENERATED DRAWING MANUAL CHANGES NOT PERMITTED	CENTRAL FILES:	PRINCETON PLASMA PHYSICS LABORATORY PRINCETON UNIVERSITY
	UNLESS OTHERWISE SPECIFIED	NATIONAL COMPACT STELLARATOR EXPERIMENT
AutoCAD2000	DIMENSIONS ARE IN INCHES MACHINE SURFACES 125	PORT 12 INTERFACES V V 1 BOTTOM
DO NOT VERIFY DIMENSION BY SCALING DRAWING	BREAK SHARP EDGES .005/.020	

SCALE: NEXT ASSEMBLY	TOLERANCES NON-CUMULATIVE DECIMAL-INCH .X ±.100 .XX ±.030 .XXX ±.005 ANGULAR ±0°-15'	FRACTIONS 0°-12" 1/16 12"-36" 1/8 36"-120" 1/4 OVER 120" 1/2	DR: FOM ENG: G.LABIK DES: G.LABIK CHK: G.TCHILINGURIAN	DATE: 8/AUG/2000 APPROVED CHK SUPV 07 JB

WELDING ENGINEER
APPR: _____ DATE _____
APPR: _____ DATE _____

CAD FILE: se 123-124
SHEET 1 OF 8 REV 0