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SUBJECT: PFC GEOMETRY***

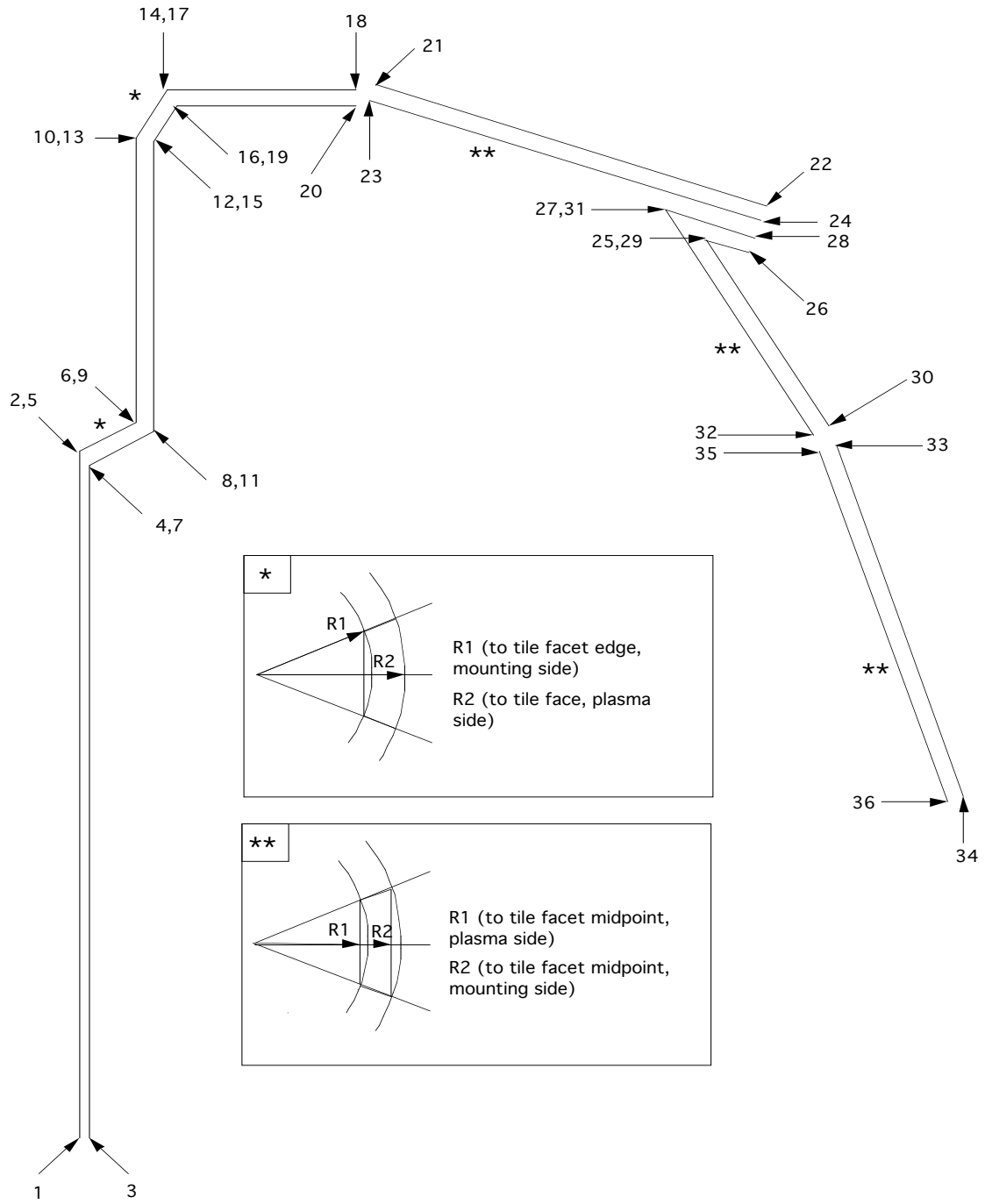
This memo serves to document the agreed to geometry of the PFCs. Line segments which describe the front and back surfaces of the PFCs are given in the attached figure and tables.

Additional details not covered by the line segment definition are are follows:

- 1 - the tip of the secondary passive plate tiles at the slot with the outboard divertor shall be rounded with radius of 1 cm
- 2 - the toroidally oriented edge of the primary passive plate tiles on the midplane end shall be quarter rounded on the side facing the plasma with a radius of 1 inch

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NSTX File



		#	R (in)	Z (in)	#	R (in)	Z (in)
Inner Wall	Struct	1	6.738	0.000	2	6.738	42.617
	PFC	3	7.289	0.000	4	7.289	41.780
Inner Wall/Inboard Divertor Angled Section	Struct	5	6.738	42.617	6	10.000	44.500
	PFC	7	7.289	41.780	8	11.000	43.923
Inboard Divertor Vertical Section	Struct	9	10.000	44.500	10	10.000	62.125
	PFC	11	11.000	43.923	12	11.000	61.857
Inboard Divertor Vertical/Horizontal Angled Section	Struct	13	10.000	62.125	14	11.732	65.125
	PFC	15	11.000	61.857	16	12.309	64.125
Inboard Divertor Horizontal Section	Struct	17	11.732	65.125	18	22.500	65.125
	PFC	19	12.309	64.125	20	22.500	64.125
Outboard Divertor	Struct	21	23.618	65.438	22	46.004	57.918
	PFC	23	23.300	64.490	24	45.686	56.970
Slot	Struct	25	42.498	55.823	26	45.017	54.977
	PFC	27	40.227	57.641	28	45.335	55.925
Secondary Passive Plate	Struct	29	42.498	55.823	30	49.557	44.175
	PFC	31	40.227	57.641	32	48.702	43.657
Primary Passive Plate	Struct	33	49.967	43.025	34	57.248	21.182
	PFC	35	49.018	42.708	36	56.299	20.866

		#	R(cm)	Z(cm)	#	R(cm)	Z(cm)
Inner Wall	Struct	1	17.115	0.000	2	17.115	108.246
	PFC	3	18.515	0.000	4	18.515	106.122
Inner Wall/Inboard Divertor Angled Section	Struct	5	17.115	108.246	6	25.400	113.030
	PFC	7	18.515	106.122	8	27.940	111.564
Inboard Divertor Vertical Section	Struct	9	25.400	113.030	10	25.400	157.798
	PFC	11	27.940	111.564	12	27.940	157.117
Inboard Divertor Vertical/Horizontal Angled Section	Struct	13	25.400	157.798	14	29.799	165.418
	PFC	15	27.940	157.117	16	31.266	162.878
Inboard Divertor Horizontal Section	Struct	17	29.799	165.418	18	57.150	165.418
	PFC	19	31.266	162.878	20	57.150	162.878
Outboard Divertor	Struct	21	59.991	166.212	22	116.851	147.112
	PFC	23	59.182	163.805	24	116.043	144.704
Slot	Struct	25	107.945	141.791	26	114.342	139.642
	PFC	27	102.177	146.408	28	115.151	142.050
Secondary Passive Plate	Struct	29	107.945	141.791	30	125.875	112.205
	PFC	31	102.177	146.408	32	123.703	110.889
Primary Passive Plate	Struct	33	126.916	109.282	34	145.409	53.803
	PFC	35	124.506	108.479	36	142.999	53.000