

PIPE SCALE DETAILS

MANDER ORGANS

JOB: Chestnut Hill Presbyterian Church

FINAL

DEPARTMENT: Great Organ

DATE: 8th September 1998

INITIALS: JPM

PRESSURE: 80mm **PITCH:** A = 440 at 20°C

TUNING: cone and slot

TEMPERAMENT: Kellner

No	Stop Name	Pitch	Pipes	Mat	Ears	MW	C1	C13	C25	C37	C49		Remarks
1a	Double Diapason	16	1-24	QP			150x 120	95x 75.5	(b:62.5 x49.5)				Stopped Wood scale No. 32
1b	Doub. Diap. trebs	16	26-61	56%	25-48	4			74	43.5	27	17	
2	Open Diapason	8	61	75%	1-36	4	150	90	55	34	20	13	Part fronts
3	Stopped Diapason	8	61	QP			115x 91.5	72.5x 57.5	45.5x 36.5	29x 23	18x 14.5	11.5x 9	Stopped Wood No. 39
4	Viola da Gamba	8	61	56%	1-48	4	110	84/56	50/33.5	30/20	18/12	11/7.5	1-5 par. Tapd. 2/3rds by ten C
5	Harmonic Flute	8	13-61	56%	1-36	4		85	57	38	25.5	14.5	1-12 from no.3, harm. from 25
6	Principal	4	61	56%	1-24	4	89	54	32	20	12	7.5	Part fronts (upper flats)
7	Open Flute	4	61	35%	1-30	4.5	87 B=60	62	42.5	28.5	19	12.5	1-12 canisters 13-61 tapered 1/3rd
8	Twelfth	2 2/3	61	56%	1-18	4	61	38	23	14	9	5.5	
9	Fifteenth	2	61	56%	1-12	4	52	31	19	11.5	7.5	5	
10	Furniture IV-V 1-6: 1 ¹ / ₃ .1. ² / ₃ . ¹ / ₂ 7-18: 2.1 ¹ / ₃ .1. ² / ₃ 19-30: 2 ² / ₃ .2.1 ¹ / ₃ .1 31-40: 4.2 ² / ₃ .2.1 ¹ / ₃ .1 41-50: 8.4.2 ² / ₃ .2.1 ¹ / ₃ 51-61: 8.5 ¹ / ₃ .4.2 ² / ₃ .2	1 1/3	244	56%	none	4	(2' 45)	1' 28.5	1/2' 18	1/4' 11.5	1/8' 7	1/16' 4.5	Note that the 8ft rank is introduced before the 5 ¹ / ₃ .
11	Cornet V 8' rank 4.2 ² / ₃ .2.1 ³ / ₅ ranks	8	Ten F to top g only	35% 35%	8' 1-20 only	4 4		f ⁰ = 65 f4'=48	58 1' 38	39 1/2' 25	26 1/4' 17	g ³ =20 1/8' 11	8' canisters, others open parallel
12	Trumpet	8	61	56%			120	92	71	54	41	g = 35	Shallots NPM Scale No. 1 57-61 flues as Open Diap. 8
13	Clarion	4	61	56%			92	71	54	41	g = 35		Shallots NPM Scale No. 1 45-61 flues as Principal 4

DEPARTMENT: Swell Organ**JOB: Chestnut Hill Presbyterian Church****PRESSURE: 80mm** (if space is tight, may be on one reservoir with Great if large enough)

No	Stop Name	Pitch	Pipes	Mat	Ears	MW	C1	C13	C25	C37	C49		Remarks
14	Open Diapason	8	61	56%	small 1-36	4	135	80	47.5	28	17	11	
15a	Hohl Flute Bass	8	up to 12	QP			125x99	B=81.5 x 65					
15b	Hohl Flute	8	13-61	35%	13-42	4		102	69	44	28	19.5	Upper Ø 1/3 rd scale
16	Salicional	8	61	56%	7-42	4	F= 75	60	37.5	22.5	14	9.5	par, slotted, 6 bases com. to 15
17	Principal	4	61	56%	1-24	4	87	52	31	19.5	12	7	
18	Nason Flute	4	61	35%	1-30	5	73	49	33	22	15	10	1-36 stopped 37-61 upp Ø 1/3 rd
19	Fifteenth	2	61	56%	1-12	4	50	30	19	11.5	7	5	
20	Piccolo	2	61	35%	none	5	60	38.5	25	17.5	12	8	
21	Sesquialtera II 1-56: 2 ² / ₃ .1 ³ / ₅ 57-61: 2 ² / ₃ .2	2 ² / ₃	122	35%	to 1'	4	2' 2/3 56 2' 46	1' 28.5	1/2' 18	1/4' 11.5	1/8' 7	1/16' 4.5	57- 61 of tierce rank as 2'.
22	Plein Jeu III-IV 1-10: 1 ¹ / ₃ .1 ² / ₃ 11-20: 2.1 ¹ / ₃ .1 ² / ₃ 21-30: 2 ² / ₃ .2.1 ¹ / ₃ .1 31-46: 4.2 ² / ₃ .2.1 ¹ / ₃ 47-61: 8.4.2 ² / ₃ .2	1 ¹ / ₃	234	56%	none	4	1 ¹ / ₃ '=32	1' 27	1/2' 17	1/4' 11	1/8' 7	1/16' 4.5	
23	Bassoon	16		56%			120 b=95	100	78	60	44.5	34.5	1-12 half length, Shallots NPM No. 5
24	Trumpet	8		56%			110	85	65	50	37.5	g 56 30	57-61 flues as Gt Open 8 Shallots NPM No. 13
25	Hautbois	8		56%									57-61 flues scaled as Salic. 8 Shallots NPM No.2
26	Vox Humana	8		35%		Scale Tot. 1 cone 1	41 430 80	37 270 68	34 190 56	31 130 52	28 100 48	g56 27 58 38	Soldered on flaps 1-36 57-61 flues scaled as Salic. 8. Shallots NPM No.2

DEPARTMENT: Choir Organ

JOB: Chestnut Hill Presbyterian Church

PRESSURE: 70mm

No	Stop Name	Pitch	Pipes	Mat	Ears	MW	C1	C13	C25	C37	C49		Remarks
27a	Chimney Flute Basses	8	1-12	QP			107x85	B=72.5 x57.5					Stopped Wood No. 41
27b	Chimney Flute	8	13-61	35%	13-42	4		67	44	29	19	12.5	13-56 chimney 1/4 Ø, length to rod. 57-61 open , upper Ø 1/2 scale
28	Quintadena	8	13-61	35%	13-42	4		55	33	20	12.5	8	Basses from 27a 57-61 open, upper Ø 1/3 rd scale. See Silb. Cut-ups.
29	Principal	4	61	75%	1-24 small	4	83	49	29	17	11	6	Part fronts
30	Block Flute	4	61	QP & 35%		4.5 for metal s	72.5x 57.5	45.5 x 36.5	29 x 23	18 x 14.5	11.5x9 c#=13	9	Stopped Wood scale 51 C# 51 to top 35%, upper Ø 1/3 rd scale
31	Nazard	2 2/3	61	35%	1-24	4.5	65	41	26	16.5	10	6.5	
32	Fifteenth	2	61	56%	1-12	4	45	27	16	10	6	4.5	
33	Recorder	2	61	35%	1-18	4.5	53	34	21.5	13.5	8.5	5.5	
34	Tierce	1 3/5	61	35%	1-14	4.5	45.5	28.5	18	11.5	7.5	g=6	56-61 duplicates Recorder 2'
35	Mixture III-IV 1-12: 1. 2/3. 1/2 13-20: 1 1/3. 1. 2/3. 1/2 21-30: 2. 1 1/3. 1. 2/3 31-40: 2 2/3. 2. 1 1/3. 1 41-52: 4. 2 2/3. 2. 1 1/3 53-61: 8. 4. 2 2/3. 2	1	232	56%	none	4	1' 25	1/2' 15.5	1/4' 10	1/8' 6	1/16' 4.5		
36	Cromorne	8	61	35%		Scale total 1 cone 1	35 1500 180	30 780 125	25 410 80	23 210 60	21 95 42	g=20	1-12 Capped Canisters 13-24 Open Canisters 57-61 flues scaled as Prin 4 Shallots NPM Scale No. 2

JOB: Chestnut Hill Presbyterian Church**DEPARTMENT:** Pedal Organ**PRESSURE: 90mm** (could double as static)

No	Stop Name	Pitch	Pipes	Mat	Ears	MW	C1	C13	C25	G32			Remarks
37	Open Diapason	16	32	75%	1-32	4	(260)	154	92	68			From Bot E Front pipes from F#
37a	Open Diapason Helpers	8	4	56%	1-4	4	C=120 C#=115 D=110 D#=107						These are soft speaking 8ft pipes to fill in the harmonics missing from the stopped pipes.
38	Bourdon	16	32	QP			198x 163	125x 103	79x 65	60x50			Bourdon Scale No 15 Bottom notes used as 16ft open with helpers, make 2 notes larger
39	Quint	10 2/3	32	QP			140x 114	88x73	56x46	43x35			Bourdon Scale No. 24
40	Principal	8	32	56%	1-32	4	150	89	55	41			allow adequate wind
41	Bass Flute	8	32	35%	1-32	4	122	82	53	40			1-6 with stays, sturdy feet
42	Octave	4	32	56%	1-24	4	80	54	33	26			
43	Mixture IV 1-32: 2 ² / ₃ .2.1 ¹ / ₃ .1	2 2/3	128	56%	to 1' not 1 ¹ / ₃	4	2 ² / ₃ ' 62	2' 50	1' 30	1/2' 18	1/4' 10	g ³² 1' 8	
44	Trombone	16	32	56%			155	120	90	76			Full length. Shallots NPM Scale No. 1
45	Trumpet	8	32	56%			130	98	76	65			Shallots NPM Scale No. 10
										C37	C49	C61	
46	Festal Trumpet						?	?	?	?	?	?	Using existing pipes