

PIPE SCALE DETAILS

JOB: ST PETER, ST. LOUIS

PITCH: A 440 @ 20°C

DEPARTMENT: Great Organ

FINAL

DATE: 11th January 2000

TUNING METHOD: Cone & Slot

PRESSURE: 80mm

MANDER ORGANS

INITIALS: JPM

TEMPERAMENT: ET

No	Stop Name	Pitch	Pipes	Mat	Ears	MW	C ¹	C ¹³	C ²⁵	C ³⁷	C ⁴⁹	C ⁶¹	Remarks
1a	Double Diapason	16	1-24	QP			150x 120	95x 75.5	(b:62.5 x49.5)				Stopped Wood scale No. 32
1b	Double Diapason	16	25-61	56%	25-48	4			74	43.5	27	17	Fronts in upper case
2	Open Diapason	8	61	75%	small 1-36	4	150	90	55	34	20	13	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	Gamba	8	61	56%	1-48	4	110	84/56	50/33.5	30/20	18/12	11/7.5	1-5 parallel, tapered 2/3rds by ten. C, bearded as req.
5	Principal	4	61	56%	1-24 small	4	89	54	32	20	12	7.5	
6	Open Flute	4	61	35%	1-30	1-12 4 rem4.5	87 B=60	62	42.5	28.5	19	12.5	1-12 canisters 13-61 tapered 1/3rd
7	Fifteenth	2	61	56%	1-12 small	4	52	31	19	11.5	7.5	5	
8	Furniture IV 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 31-42: 4.2 ² / ₃ .2.1 ¹ / ₃ 43-61: 8.4.2 ² / ₃ .2.	1 ¹ / ₃	305	56%	none	4	(2' 45)	1' 28.5	¹ / ₂ ' 18	¹ / ₄ ' 11.5	¹ / ₈ ' 7	¹ / ₁₆ ' 4.5	
9	Mounted Cornet III Ten G to top G 20-56: 2 ² / ₃ .2.1 ³ / ₅	2 ² / ₃	111	35%	none	4.5	(1' 35)	¹ / ₂ ' 22	¹ / ₄ ' 13	¹ / ₈ ' 8	(¹ / ₁₆ ' 5)		Mounted
10	Trumpet	8	61	56%			120	92	71	54	45	g = 40	Domed shallots, scale No. 13 57-61 flues as Open Diap. 8
11	Clarion	4	61	56%			92	71	54	45	g = 40		Domed shallots, scale No. 13 45-61 flues as Principal 4

DEPARTMENT: Swell Organ

PRESSURE: 80mm

JOB: St. Louis

No	Stop Name	Pitch	Pipes	Mat	Ears	MW	C ¹	C ¹³	C ²⁵	C ³⁷	C ⁴⁹	C ⁶¹	Remarks
12	Open Diapason	8	7-61	56%	small 1-36	4	(135)	80	47.5	28	17	11	1-6 from Gedackt bass (with helpers)
12a	Open Helpers	4	1-6	56%	small	4	C=67 F=55						
13	Gedackt	8	61	35%	1-42	4.5	115	78	53	36	24.5	16.5	1-6 with stays 57 –61 open
14	Viola da Gamba	8	61	56%	1-48	4	93	56.5	36	22.5	14	10	Parallel slotted beards as req.
15	Voix Celeste (T.C.)	8	13-61	56%	13-48	4		51	33	20.5	13	9	Parallel slotted, tuned flat.
16	Principal	4	61	56%	1-24	4	87	52	31	19.5	12	7	
17	Nason Flute	4	61	35%	1-30	5	73	49	33	22	15	10	1-36 stopped 37-61 upper Ø 1/2 scale
18	Fifteenth	2	61	56%	1-12	4	50	30	19	11.5	7	5	
19	Sesquialtera II 1-56: 2 ² / ₃ .1 ³ / ₅ 57-61: 2 ² / ₃ .3 ¹ / ₅	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 3 ¹ / ₅
20	Mixture IV 1-6: 1. ² / ₃ . ¹ / ₂ . ¹ / ₃ 7-12: 1 ¹ / ₃ .1. ² / ₃ . ¹ / ₂ 13-20: 2.1 ¹ / ₃ .1. ² / ₃ 21-32: 2 ² / ₃ .2.1 ¹ / ₃ .1 33-48: 4.2 ² / ₃ .2.1 ¹ / ₃ 49-61: 8.4.2 ² / ₃ .2	1	244	56%	none	4	1' 27	¹ / ₂ ' 17	¹ / ₄ ' 11	¹ / ₈ ' 7	¹ / ₁₆ ' 4.5		
21	Fagotto	16	61	56%			120 b=95	100	78	60	44.5	34.5	1-12 half length. Square shallots scale no. 1
22	Harmonic Trumpet	8	61	56%			110	85	65 b 51	68	52	g 48	Harm from 37, 57-61 flues scales as Gt. Octave Square shallots scale no. 1
23	Hautbois	8	61	56%			70	66	47	39	34	g 25	57-61 flues scaled as Salic. 8 See separate sheet. Domed shallots scale no. 13

DEPARTMENT: Choir Organ

PRESSURE: 70mm

JOB: St. Louis

No	Stop Name	Pitch	Pipes	Mat	Ears	MW	C ¹	C ¹³	C ²⁵	C ³⁷	C ⁴⁹	C ⁶¹	Remarks
24	Chimney Flute	8	61	35%	1-42	4	110	75	46	29	19	12.5	18 wood, 1-12 no chimneys 13-56 internal chimneys 1/4Ø, 1=Ø 49-61 open tapered upper Ø 2/3 scale
25	Principal	4	61	75%	1-24 small	4	83	49	29	17	11	6	Fronts
26	Koppel Flute	4	61	35%	1-36	4 cone 1 top Ø	85	56 110 18	36 70 11	24 40 (35) 7 (6)	15.5	10	1-12 solid canisters 13-36 Koppel canisters 37-61 tapered 1/2
27	Nazard	2 ^{2/3}	61	35%	1-24	4.5	65	41	26	16.5	10	6.5	
28	Fifteenth	2	61	56%	1-12	4	45	27	16	10	6	4.5	
29	Recorder	2	61	35%	1-18	4.5	53	34	21.5	13.5	8.5	5.5	
30	Tierce	1 ^{3/5}	61	35%	1-14	4.5	45.5	28.5	18	11.5	7.5	g=6	56-61 as 3 ^{1/5}
31	Sharp Mixture III 1-12: 1. ^{2/3} . ^{1/2} 13-24: 1. ^{1/3} .1. ^{2/3} 25-36: 2.1 ^{1/3} .1 37-48: 2. ^{2/3} .2.1 ^{1/3} 49-61: 4.2. ^{2/3} .2	1	183	56%	none	4	(1' 25)	1/2' 15.5	1/4' 10	1/8' 6	1/16' 4.5		
32	Cromorne	8	61	56%%		scale total 1 cone 1	35 1500 180	30 780 125	25 410 80	23 210 60	21 95 42	g=20 50 25	1-12 Capped Canisters 13-24 Open Canisters 57-61 flues scaled as Prin 4. Square shallots scale no. 1

DEPARTMENT: Pedal Organ

PRESSURE: 90mm

JOB: St. Louis

No	Stop Name	Pitch	Pipes	Mat	Ears	MW	C ¹	C ¹³	C ²⁵	G ³²	Remarks
33	Subbass	32	1-12				310x 255	(198x 163)			
34	Open Diapason	16	7-32	75% & 56%	1-32	4	250	150	89	65	Fronts
34a	Open helpers	8	1-6	56%	1-6	4	C=120 F=103				
35	Bourdon	16	32	QP			(198x 163)	125x 103	79x 65	60x50	Bourdon Scale No 15 Bottom 6 notes used as 16ft Open with helpers, made 2 notes larger separate pallets blown harder.
36	Principal	8	32	56%	1-32	4	150	89	55	41	
37	Bass Flute	8	32	35%	1-32	4	122	82	53	40	1-6 with stays, sturdy feet
38	Octave	4	32	56%	1-24	4	85	53	33	26	
39	Choral Flute	4	32	35%	1-32	4	85	55	36	30	(Stopped Flute)
40	Mixture IV 1-32: 2 ² / ₃ .2.1 ¹ / ₃ .1	2 ² / ₃	128	56%	to 1' not 1 ¹ / ₃ rank	4	2 ² / ₃ ' 62	2' 50	1' 30	1/2' 18	
41	Bombard	32	1-12	zinc			200 b=160				Half Length. Wooden leathered shallots, light tongue loading
42	Trombone	16	32	56%			158	120	88	73	Full length. Square shallots, scale No. 1
43	Trumpet	8	32	56%			130	98	76	65	Domed shallots, scale No. 10
44	Clarion	4	32	56%			98	76	58	50	Domed shallots, scale No. 10