

0-1-85

~~Ped. 5ⁿ-8ⁿ~~

Moller:

Remote control starter	GREAT ORGAN	5"
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1	16'	Double Diapason.....	35 scale-24 zinc - S.M.....	73	Pipes
2	8'	First Diapason.....	43 scale -12 zinc - S.M.....	61	"
3	8'	Second Diapason.....	from # 1.....	61	Notes
4	8'	Harmonic Flute.....	50 scale - 12 zinc - S.M.....	61	Pipes
5	4'	Octave.....	56 scale - S.M.....	61	"
6	2-2/3'	Twelfth.....	65 scale - S.M.....	61	"
7	2'	Fifteenth.....	70 scale - S.M.....	61	"
8		Cornet.....	4 H - S.M.....	269	"
9		Harmonics.....	4 I - S.M.....	244	"
10		Mixture.....	3 P - S.M.....	183	"
11		Chimes - prepared for only in console			
12		Three Blank Stops (pedal lowers)			
		Chime dampers on/ <u>SWELL ORGAN</u> - 7" wind			
13	16'	Salicional.....	46 scale-unit-24 zinc - S.M.....	97	Pipes
14	8'	Geigen Principal.....	46 scale - 12 zinc - S.M.....	73	"
15	8'	Rohr Floete.....	Reg.- wood.....	73	"
16	8'	Salicional.....	from # 13.....	73	Notes
17	8'	Voix Celeste, T.C.....	59 scale - S.M.....	61	Pipes
18	4'	Geigen.....	from # 14.....	61	Notes
19	4'	Chimney Flute.....	from # 15.....	73	"
20	4'	Salicet.....	from # 13.....	73	"
21	2'	Flautino.....	73-2/3 - S.M.....	61	Pipes
22	V	Plein Jou (Mixture V Rks).....	5 C.....	305	"
23	16'	Contra Fagotto.....	5" Reg. Oboe 8' CC, up 3 1/2" unit.....	97	"
24	8'	Fagotto.....	from # 23.....	73	Notes
25	4'	Clarion.....	from # 23.....	73	"
26	8'	Trumpet.....	4".....	73	Pipes
27	8'	Vox Humana.....	prepared for in console		
28		Tremolo			
		Three Blank Stops			
		<u>CHOIR ORGAN</u> - 5"			
29	16'	Spitz Floete.....	40-2/3 - 24 zinc - S.M.- unit.....	85	Pipes
30	8'	Diapason.....	47 scale - 12 zinc - S.M.....	73	"
31	8'	Spitz Floete.....	from # 29.....	73	Notes
32	8'	Spitz Floete Celeste, T.C.....	52-2/3.....	61	Pipes
33	4'	Principal.....	62 scale - S.M.....	73	"
34	2-2/3'	Twelfth.....	72 scale - capped - S.M.....	61	"
35	2'	Fifteenth.....	76 scale.....	61	"
36		Chimes (Great).....	prepared for		
37	8'	Clarinet.....	1 1/2".....	73	Pipes
38		Tremolo			
		Three Blank stops			

SOLO ORGAN - 8" wind

39	8'	French Horn.....all except pipes	
40	8'	Gross Gamba.....56 scale - 12 zinc - S.M.....73	Piper
41	8'	Gross Gamba Celeste...56 scale - 12 zinc - S.M.....73	"
42	8'	Major Flute.....#1-12 Reg. Mel.; #13 up Reg. Wald Flt..73	"
43	8'	Tuba Mirabilis.....5 1/2".....73	"
44		Tremolo	
		Three Blank Stops	

PEDAL ORGAN

45	32'	Resultant.....Bdn. & Diap.-Quint Bdn.to 20th note.....32	Notes
46	16'	Diapason.....Reg.- bearded-wood-5" wind.....44	Pipes
47	16'	Second Diapason.....from # 1.....32	Notes
48	16'	Spitz Floete.....from # 29.....32	"
49	16'	Contra Bass.....L. Bdn.- wood - 5" wind.....44	Pipes
50	16'	Salicional.....from # 13.....32	Notes
51	8'	Octave.....from # 46.....32	"
52	8'	Flute.....from # 49.....32	"
53	8'	Spitz Floete.....from # 29.....32	"
54	16'	Fagotto.....from # 23.....32	"
55	16'	Trombone.....9" - 8" wind.....56	Pipes
56	8'	Trombone.....from # 55.....32	Notes
57	4'	Trombone.....from # 55.....32	"
58		Chimes.....(Great) prepared for in console	
		Three silent stops	

COUPLERS

59	Great 16'	80	Choir 4'
60	Great Unison Off	81	Swell to Choir 16'
61	Great 4'	82	Swell to Choir
62	Swell to Great 16'	83	Swell to Choir 4'
63	Swell to Great	84	Solo to Choir
64	Swell to Great 4'	85	Solo to Choir 4'
65	Choir to Great 16'	86	Solo 16'
66	Choir to Great	87	Solo Unison Off
67	Solo to Great	88	Solo 4'
68	Choir to Great 4'	89	Swell to Solo
69	Solo to Great 4'	90	Great to Solo 16'
70	Swell 16'	91	Great to Solo
71	Swell Unison Off	92	Great to Solo 4'
72	Swell 4'	93	Choir to Solo
73	Choir to Swell 16'	94	Swell to Pedal
74	Choir to Swell 4'	95	Swell to Pedal 4'
75	Choir to Swell	96	Great to Pedal
76	Solo to Swell	97	Great to Pedal 4'
77	Solo to Swell 4'	98	Solo to Pedal
78	Choir 16'	99	Solo to Pedal 4'
79	Choir Unison Off	100	Choir to Pedal
80			

ADJUSTABLE COMBINATIONS

Pistons No. 1-2-3-4-5-6-7-8	Affecting Great and Pedal Stops
Pistons No. 1-2-3-4-5-6-7-8	Affecting Swell and Pedal Stops
Pistons No. 1-2-3-4-5-6	Affecting Choir and Pedal Stops
Pistons No. 1-2-3-4-5-6	Affecting Solo and Pedal Stops
Pistons No. 1-2-3-4-5-6	Affecting Pedal stops and couplers duplicated by too pistons
Pistons No. 1-2-3-4-5-6-7-8-9-10-11-12	Affecting Full Organ, #1-#6 duplicated by too pistons.

General Cancel Piston placed under Great, extreme right
Manual Cancel Pistons and Pedal Cancel Piston

Great to Pedal Reversible by toe piston and stop piston

ACCESSORIES

- 1 Balanced Crescendo and Diminuendo Pedal, Adjustable not moving registers
 - 2 Balanced Swell Expression Pedal
 - 3 Balanced Choir Expression Pedal
 - 4 Balanced Solo Expression Pedal
 - 5 Master Expression, all expressions to Swell Pedal on Pedal Lever
 - 6 Indicator for Crescendo and Swell - Austin Roller
 - 7 Pedals on and Off to manual Pistons
 - 8 Sforzando Pedal, with light indicator
- Screen to be of approved design
Blowing plant (See O-54) Spencer Steel Orgoblow
Instrument will be placed on a platform over stage against back wall.
Platform to be built by M. P. Moller, Inc.

ROW:D

11-6-35

GENERAL MATERIAL AND CONSTRUCTION DETAILS

- 0-4 WINDCHESTS, REGULATORS, WIND TRUNKS, TREMOLOS, ORGAN AND CONSOLE ACTION PARTS: These shall be made of California sugar pine or Idaho white pine selected from grade "No. 1 & 2 clear" or "1" and better", and shall be finished inside and out with lacquer or orange shellac - see O-9. Certain action parts, according to Contractor's custom, shall be made of the best grades of hard maple, mahogany, walnut, birch, Eastern yellow poplar or other fine woods suited to their functions.
- 0-5 EXPRESSION SHUTTERS: Shall be made of California sugar or white pine, Idaho white pine or Eastern yellow poplar, grade "C-select" or better; shall be laminated, with sections not wider than their thickness and not less than 2" thick, and shall have double (staggered) felted beveled edges and be fitted with approved adjustable lubricated bearings. Shutters and frames shall be finished with lacquer or orange shellac (see O-9) inside the chambers, except where visible through an organ screen, in which case the outside finishing shall be a dead black or other color approved for the purpose.
- 0-11 ACTION, ELECTRICAL SYSTEM, CABLES, WIRING: The action shall be electro-pneumatic throughout. The electrical system shall comply in every respect with the Rules of the National Board of Fire Underwriters. Moisture-proof, flame-proof, machine spun cables shall be used, such as made by the Lanz Electric Mfg. Co., 1731 N. Western Ave., Chicago, Ill. or the Philadelphia Insulated wire Co., 200 N. Third St., Philadelphia, Pa., and must in every way be equal of these products. The common or return wire shall not be contained in the cable but may be run in the same conduit with approved cable, and must have current capacity according to the rating of the Nt. Elec. Mfrs. Assn., and in no case be smaller than #14 A.W. gauge, a rubber-covered Type N, asbestos-covered Type A, or slow-burning type. In no case shall the full load voltage at the organ drop to less than 90% of the voltage reading at the generator running without load.
- A typical approved specification for main cable to be run between console and sections of the organ, made up with or without color code, follows: #24 A.W. gauge copper wires, tinned, enameled, single cotton-covered, wax-impregnated, 6 wraps of waxed paper, over-all tight-woven cotton braid saturated with flame-proof paint. Wiring inside the organ, whether manufactured cable (preferred) or cable made up from spooled wire, hand-laid, tied, taped and shellaced, shall be not smaller than #24 A.W. gauge copper wire, tinned, double cotton-covered and waxed; and if manufactured cable it shall be wax-impregnated, covered with 4 wraps of waxed paper, over-all tight-woven cotton braid saturated with flame-proof paint.
- All connections shall be soldered and the flux thoroughly cleaned off, to avoid corrosion or "runs". Any other method of connecting must be referred for approval before use.

0-12

CONTACTS:

All key, stop, relay and other action contacts shall be made of spring silver wire or spring silver ribbon. All contacts shall have a gentle rubbing motion, and except certain approved types of switches, they shall meet at right angles. The contacts shall be so designed and disposed that the weight of the key touch or load on actuating relay pneumatics, is not altered appreciably, whether stops and couplers are in the on or off positions.

0-20

PNEUMATIC LEATHERS; PNEUMATIC CONSTRUCTION: Windchests and other action pouches and light-duty pneumatics shall be covered with the best grade of chrome-tanned English brown pneumatic leather, fastened with the best glue (0-10).

0-25

COMBINATIONS: Adjustable combinations shall move the stops. Toe studs, with their springs and contacts, shall be self-contained removable units with metal or hard wood studs. Locking and reversible pedals shall be self-contained removable units with contacts and springs readily accessible.

0-27

CONSOLE MISCELLANEOUS: All exposed metal fittings shall be heavily plated with chromium or other non-corrosive metal. Openings cut for balanced pedal assembly and pedal board or other purposes shall be solidly inclosed against mice, etc.

0-28

CONSOLE CASE : The console case shall be built to a standard design of the contractor, as normally supplied with an organ of the size and type, or such reasonable modification thereof with respect to panels moldings, etc., as may be necessary to harmonize with the part of the Auditorium in which it is to be located. The materials and finish of the exterior shall be native wood and finish stipulated in article, and shall be corresponding with the samples of wood and finish to be supplied to the contractor.

0-31

WOOD PIPES: The woods to be used shall be California sugar pine or Idaho white pine, selected sound lumber without knots or other defects properly seasoned (0-2). Brilliant flutes may have maple, walnut, mahogany or other approved hard wood fronts (or fronts and backs) from 2' C or 4' C speaking length upward. Maple, mahogany, walnut or equivalent hard wood caps and throats shall be used, according to the Contractor's practice. Large wood pipes shall be tongued and grooved and glued up with the best glue, with reinforcing screws at top and bottom. Metal toed pipe feet shall be used on all wood pipes standing on annual windchests and corresponding upper notes of pedal wood stops such toes to contain not less than 35% straits tin, balance refined lead, no antimony. Gates shall be used in the feet of all larger wood pipes, of a form which avoids "windiness" in speech and remains as set. All large wood pipes shall have sliding tuners, with sure means of holding same in place and preventing rattling. Wood stoppers with cork or approved equivalent packing combined with properly lubricated leather shall be used in all stopped wood pipes, the grain in such pipes having an inside area less than 12 sq. in. and cross banded stoppers in such pipes having an inside area more than 24 sq. in., the note on which the change takes place between those limits to be at contractor's option.