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**LUTHERAN CHURCH OF THE REDEEMER**

**BIRMINGHAM, MICHIGAN**

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*Note: Stops marked with an asterisk (\*) are prepared in the organ console and solid-state control system for future addition.*

**GREAT ORGAN (II)**

			# pipes
1.	<b>Bourdon</b>	16 Swell	—
2.	<b>Principal</b>	8 70% tin, bass in façade	61
3.	<b>Chimney Flute</b>	8 50% tin	61
4.	<b>Harmonic Flute</b>	8 50% tin, #1-12 common with Chimney Flute 8'	49
5.	<b>Octave</b>	4 70% tin	61
6.	<b>Spire Flute</b>	4 50% tin	61
7.	<b>Quint</b>	2 <sup>2</sup> / <sub>3</sub> 70% tin	61
8.	<b>Super Octave</b>	2 70% tin	61
9.	<b>Tierce</b>	1 <sup>3</sup> / <sub>5</sub> 70% tin; principal scale	61
10.	<b>Mixture IV</b>	1 <sup>1</sup> / <sub>3</sub> 70% tin	244
11.	<b>Trumpet</b>	8 50% tin	61
	<b>Tremulant</b>		
*	12. <b>Tuba</b>	8 Choir; not affected by couplers	—
	<b>Chimes</b>	Tubes (A2-F4) from existing instrument, provided with new electric action	

**SWELL ORGAN (III)**

			# pipes
13.	<b>Bourdon</b>	16 Stopped wood, extension of Bourdon 8'	12
14.	<b>Diapason</b>	8 50% tin	61
15.	<b>Bourdon</b>	8 #1-12 stopped wood, #13-61 50% tin	61
16.	<b>Viole de Gambe</b>	8 50% tin, slotted	61
17.	<b>Voix Celeste</b>	8 50% tin, slotted; from GG	54
18.	<b>Principal</b>	4 50% tin	61
19.	<b>Harmonic Flute</b>	4 50% tin	61
20.	<b>Piccolo</b>	2 50% tin, harmonic	61
21.	<b>Plein-Jeu III-IV</b>	2 50% tin	232
22.	<b>Bassoon</b>	16 50% tin from C2, full-length	61
23.	<b>Trompette</b>	8 50% tin, harmonic	61
24.	<b>Oboe</b>	8 50% tin	61
25.	<b>Vox Humana</b>	8 From existing instrument; repaired and revoiced with new tongues, and provided with new boots	61
	<b>Tremulant</b>		
	<b>Swell 16'</b>		
	<b>Swell Unison Off</b>		
	<b>Swell 4'</b>		
*	26. <b>Tuba</b>	8 Choir; not affected by couplers	—

**CHOIR ORGAN (I)**

			# pipes
* 27. <b>Violin Diapason</b>	8	50% tin, slotted	(61)
* 28. <b>Cor de Nuit</b>	8	50% tin	(61)
* 29. <b>Flute Celeste</b>	8	50% tin, from Tenor C	(49)
* 30. <b>Fugara</b>	4	50% tin, slotted	(61)
* 31. <b>Spindle Flute</b>	4	50% tin	(61)
* 32. <b>Nasard</b>	2 <sup>2</sup> / <sub>3</sub>	50% tin	(61)
* 33. <b>Flautino</b>	2	50% tin	(61)
* 34. <b>Tierce</b>	1 <sup>3</sup> / <sub>5</sub>	50% tin	(61)
* 35. <b>Mixture III</b>	1	50% tin	(183)
* 36. <b>Clarinet</b>	8	From existing instrument; repaired and revoiced with new tongues, and provided with new boots	(61)
* <b>Tremulant</b>			
<b>Choir 16'</b>			
<b>Choir Unison Off</b>			
<b>Choir 4'</b>			
* 37. <b>Tuba</b>	16	Extension of Tuba 8'; from Tenor C	—
* 38. <b>Tuba</b>	8	50% tin; with separate high-pressure blower and reservoir	(61)
* 39. <b>Tuba</b>	4	Extension of Tuba 8'; top octave repeats	—

**PEDAL ORGAN**

			# pipes
40. <b>Bourdon</b>	32	Extension of Subbass 16'; resultant from Subbass (unison) and Bourdon (fifth)	—
41. <b>Contrabass</b>	16	#1-6 open wood inside chamber; #7-12 70% tin in façade; extension of Octave 8'	12
42. <b>Subbass</b>	16	Stopped wood	32
43. <b>Bourdon</b>	16	Swell	—
44. <b>Quint</b>	10 <sup>2</sup> / <sub>3</sub>	Derived	—
45. <b>Octave</b>	8	70% tin, bass in façade	32
46. <b>Stopped Flute</b>	8	Extension of Subbass 16'	12
47. <b>Bourdon</b>	8	Swell	—
48. <b>Choral Bass</b>	4	50% tin	32
49. <b>Posaune</b>	16	Full-length, 50% tin from C2	32
50. <b>Bassoon</b>	16	Swell	—
51. <b>Trumpet</b>	8	Extension of Posaune 16'	12
* 52. <b>Tuba</b>	8	Choir	—
* 53. <b>Tuba</b>	4	Choir	—

**ANALYSIS**

	<u>Stops</u>	<u>Ranks</u>	<u>Pipes</u>
Great	10	13	781
Swell	12	15	908
Pedal	4	4	164
<b>Total (without Choir)</b>	<b>26</b>	<b>32</b>	<b>1853</b>
Choir	11	13	781
<b>Total (with Choir)</b>	<b>37</b>	<b>45</b>	<b>2634</b>



**REVERSIBLE PISTONS**

Great	/ Pedal	Thumb and Toe*
Swell	/ Pedal	Thumb and Toe*
Choir	/ Pedal	Thumb and Toe*

\*These reversibles cancel the related octave couplers as well.

Swell	/ Great	Thumb
Choir	/ Great	Thumb
Swell	/ Choir	Thumb
Bourdon 32'		Toe
Zimbelstern		Thumb and Toe
Tutti		Thumb and Toe

**BALANCED PEDALS**

Crescendo (programmable)  
Swell Expression  
Choir Expression

**ACCESSORIES**

Concave and radiating pedal clavier (A.G.O.)  
Adjustable organ bench  
Music rack light with dimmer  
Pedalboard light  
Wind-on indicator  
Crescendo indicator  
Tutti indicator light  
Combination action adjuster lock indicator  
Transposer  
Record & Playback  
MIDI In/Out with pre-assigned channels \*  
Zimbelstern (10 bells)  
Chimes volume control

\* *The Builder's responsibility is limited to make the console MIDI compatible. Therefore, all the equipment to operate the MIDI functions, such as a MIDI data file player, digital sound module, software for recording and playback are not included in this specification and are the Purchaser's responsibility.*

The key and stop action shall be slider chests with electric pull-down magnets, except for the duplexed stops and large Pedal stops, which shall be on electro-pneumatic action.

The three-manual console (keyboards) shall be detached from the organ and constructed according to standards set by the American Guild of Organists.

The console shall be moveable, constructed with an integral steel frame and casters.

The instrument shall be provided with multiplex cable connections from the console to the organ.

The console case of Colonial style, organ bench and pedalboard shall be white painted with mahogany trims, finished to match surrounding woodwork.

The area surrounding the keyboards shall be of stained mahogany.

The stops and intra-manual couplers shall be controlled by drawknobs arranged in traditional English-style stop jambs. The wood drawknobs shall have white faces engraved with black lettering. The inter-manual couplers shall be controlled by white tilting tablets placed above the upper keyboard.

Manual natural keys shall be covered with bone; manual sharps shall be of blackwood. Pedal naturals shall be of maple; pedal sharps shall be of maple with blackwood covers.

All key and pedal contacts shall be made by means of sterling silver redundant contacts operated by the Casavant patented system featuring self-cleaning motion and tracker touch for the manual keyboards.

There is no cover for the keyboards. The start-stop switch shall be of the key-lock type. The music rack shall be of tempered plate glass.

An expression shutter frame, shutters and multi-stage expression motor for the Swell division are included in this specification. The expression enclosure shall be provided by the walls and ceiling of the organ chamber. The expression shades shall be equipped with Casavant's specially designed gasket to maximize control of volume from fully closed to completely open.

The expression shutter frame, shutters and multi-stage expression motor for the Choir division shall be provided at the time of signing the Addendum to the Organ Contract for adding this division.

Decorative woodwork and façade pipes of burnished tin, generally as shown on Casavant drawing no. 8526-4, dated February 19, 2020, is included in this specification. The acoustically-transparent grillage concealing the organ's tone opening is not included in this specification, and shall be the Purchaser's responsibility.

There shall be a main blower and motor of ample capacity, and a D.C. power supply for the low voltage current, provided by the Builder. The main blower and the high-pressure blower for the Choir Tuba 8' (to be provided at the time of signing the Addendum to the Organ Contract for adding the Choir division) shall be housed in a blower room to be provided by the Purchaser.

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The logo for Casavant Frères features the word "CASAVANT" in a bold, serif font, with "Frères" in a smaller, similar font directly below it. A stylized, curved line arches over the text, resembling a musical staff or a decorative flourish.

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