

SPECIFICATIONS

Rebuilding of the Pipe Organ for
Tryon Presbyterian Church
430 Harmon Field Road
Tryon, NC 28782
February 26, 2016

Cornel Zimmer Organbuilders
P.O. Box 2309
731 Crosspoint Drive
Denver, NC 28037
(866) 749-7223
www.zimmerorgans.com

FEATURES

Custom designed and built console
Built-in castors for mobility
Oak exterior
Walnut interior
Drawknobs for stop controls (Syndyne)
Tilt tabs for coupler controls (OSI)
3 manual keyboards
Existing keyboards - rebuilt
New velocity key contact system (Walker)
Thumb pistons by WTC
EMS - style
32 note pedalboard (OSI)
Maple naturals with Rosewood sharps
Toe Pistons by Harris
black porcelain - generals and pedal locals
chrome - reversibles
Crescendo - programmable for each memory bank
Crescendo II - programmable for each memory bank
lighted piston - reversible
Expression shoes by Walker Technical Co.
Balanced Choir Expression Shoe
Balanced Swell Expression Shoe
Balanced Crescendo Pedal
Indicator lights for all shoes
New solid state switching, console control, combination action
Adjustable lighted music desk
Pedalboard lighting
Switch for main organ/blower
with indicator light
Transposer +6/-6
Adjustable organist's bench
designed and finished to match console
Complete MIDI Implementation:
2 Programmable MIDI stops per manual
MIDI In/Out/Thru ports
Sequencer In/Out ports
Auxiliary stereo audio input ports - 1/4" jacks
Record/Playback
USB port
Storage drawer under manuals

Prior to restoration:
All exposed pipes will be removed, packed and stored during sanctuary renovation.
All exposed windchests will be covered in plywood and plastic for protection.
All expression shutters will be closed and sealed.
Console will be removed.
Blower will be removed.

After restoration:
All protective plastic and plywood will be removed from organ.
All exposed windchests will be vacuumed and cleaned.
All pipes in storage will be re-installed in organ.
Two tremulants for Choir division will be repaired.
New blower installed in basement.
New console delivered.
New pipe drivers installed and wired to pipe organ.
New digital equipment installed and wired.
All pipe and digital stops voiced to fit space.
Complete tuning of pipework.

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			<i>digital</i>	
			<i>pipes</i>	<i>notes</i>
GREAT	1. Violone	16'		12 extension of Violone 8'
<i>Unenclosed</i>	2. Principal	8'	61	existing pipes
<i>Manual II</i>	3. Violone	8'		61
	4. Hohlflute	8'		61
	5. Bourdon	8'	61	existing pipes
	6. Octave	4'	61	existing pipes
	7. Koppelflute	4'		61
	8. Super Octave	2'	61	existing pipes
	9. Mixture III-IV	1 1/3'	232	existing pipes
	10. Trumpet	8'		61
	11. French Horn (Ch Exp)	8'		61
	12. Clarinet (Choir)	8'		
non-coupling	13. Harmonic Trumpet	8'	61	existing pipes
	14. Chimes			32
	14 drawknobs			
	537 pipes			
	6 pipe stops			
	9 pipe ranks			
	0 new pipe ranks			
	9 existing pipe ranks			
	6 digital voices			
	4 audio channels			

Existing windchests

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			<i>digital</i>	
			<i>pipes</i>	<i>notes</i>
SWELL	1. Lieblich Gedeckt	16'	61	by Walker Technical Co.
<i>Expressive</i>	2. Geigen Diapason	8'	61	
<i>Manual III</i>	3. Rohrflute	8'	61	
	4. Viole de Gambe	8'	61	
	5. Viole Celeste	8'	61	
	6. Flute Celeste II	8'	122	
	7. Principal	4'	61	
	8. Harmonic Flute	4'	61	
	9. Blockflute	2'	61	
	10. Plein Jeu IV	2'	122	
	11. Basson	16'	61	
	12. Trompette	8'	61	
	13. Oboe	8'	61	
	14. Vox Humana	8'	61	
non-coupling	15. Harmonic Trumpet	8'		
	16. Tremulant			
	17. Swell to Swell	16'		
	18. Swell Unison Off			
	19. Swell to Swell	4'		
	19 drawknobs			
	0 pipes			
	0 pipe stops			
	0 pipe ranks			
	0 new pipe ranks			
	0 existing pipe ranks			
	16 digital voices			
	4 audio channels			

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				<i>digital</i>	
				<i>pipes</i>	<i>notes</i>
CHOIR <i>Expressive</i> <i>Manual I</i>	1. Viola	8'		61	by Walker Technical Co.
	2. Viola Celeste	8'		61	
	3. Gedeckt	8'	61		existing pipes
	4. Erzahler	8'	61		existing pipes
	5. Erzahler Celeste tc	8'	49		existing pipes
	6. Spitzprincipal	4'	61		existing pipes
	7. Farwell Flute	4'	61		existing pipes
	8. Violina	4'		12	extension of Viola 8'
	9. Nazard	2 2/3'	61		existing pipes
	10. Waldflute	2'	61		existing pipes
	11. Tierce	1 3/5'	61		existing pipes
	12. Clarinet	8'		61	
	13. Cor d'Amour	8'		61	
	14. Harmonic Trumpet	8'			
	15. Tremulant				
	16. Choir to Choir	16'			
	17. Choir Unison Off				
	18. Choir to Choir	4'			
	19. Zimbelstern				
non-coupling	19 drawknobs				
	476 pipes				
	8 pipe stops				
	8 pipe ranks				
	0 new pipe ranks				
	8 existing pipe ranks				
	4 digital voices				
	2 audio channels				

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			<i>digital</i>	
			<i>pipes</i>	<i>notes</i>
PEDAL	1. Untersatz	32'		32 by Walker Technical Co.
<i>Unenclosed</i>	2. Principal	16'	32	
	3. Violone (Great)	16'		from Great
	4. Subbass	16'	32	
	5. Lieblich Gedeckt (Great)	16'		from Great
	6. Octave	8'	12	extension of Principal 16'
	7. Violone (Great)	8'		from Great
	8. Bassflute	8'	12	extension of Subbass 16'
	9. Choralbass	4'	12	extension of Principal 16'
	10. Nachthorn	4'		32
	11. Mixture III	2 2/3'		32
	12. Contra Basson	32'		32
	13. Bombarde	16'		32
	14. Basson (Swell)	16'		from Swell
	15. Trompete	8'		32
	16. Trompette (Swell)	8'		from Swell
	17. Hautbois	4'		32
	18. Harmonic Trumpet	8'		
	19. Chimes			
	19 drawknobs			
	100 pipes			
	2 pipe stops			
	2 pipe ranks			
	0 new pipe ranks			
	2 existing pipe ranks			
	7 digital voices			
	0 audio channels w/Great			

Existing windchests

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COUPLERS

1. Great to Pedal	8'
2. Great to Pedal	4'
3. Swell to Pedal	8'
4. Swell to Pedal	4'
5. Choir to Pedal	8'
6. Choir to Pedal	4'

LCD Display Screen

7. Swell to Great	16'
8. Swell to Great	8'
9. Swell to Great	4'
10. Choir to Great	16'
11. Choir to Great	8'
12. Choir to Great	4'

13. Swell to Choir	16'
14. Swell to Choir	8'
15. Swell to Choir	4'

16. Great/Choir exchange

Tilting Tablets:	16
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		<i>Th</i>	<i>Toe</i>	<i>Div</i>
		<i>Pis</i>	<i>Pis</i>	<i>Lab</i>
COMBINATION ACTION	Multiple Level Capture Combination Action			
	Memory Level Up	1		
	Memory Level Down	1		
	General Combinations	10	10	
	Local Pistons for Great	6		
	Local Pistons for Swell	6		
	Local Pistons for Choir	6		
	Local Pistons for Pedal		6	
	Division Cancel for Great			1
	Division Cancel for Swell			1
	Division Cancel for Choir			1
	Division Cancel for Pedal			1
	Division Cancel for Couplers			1
	Next - Piston Sequencer	2	1	
	Previous - Piston Sequencer	2	1	
	General Cancel	1		
	Set	1		
TOTALS:		36	18	5

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				<i>Th</i>	<i>Toe</i>	
				<i>Pis</i>	<i>Pis</i>	<i>led</i>
REVERSIBLES	Great to Pedal	8'	removes 4'	1	1	
	Swell to Pedal	8'	removes 4'	1	1	
	Choir to Pedal	8'	removes 4'	1	1	
	Swell to Great	8'	removes 16' & 4'	1	1	
	Choir to Great	8'	removes 16' & 4'	1		
	Swell to Choir	8'	removes 16' & 4'	1		
	Zimbelstern			1	1	
	Tutti - programmable for each Memory Bank			1	1	
	Crescendo II			1		1
	Solo Trumpet Sub			1		1
	Untersatz 32'				1	
	Contra Basson 32'				1	
	MIDI on Manual I	A		1		1
	MIDI on Manual I	B		1		1
	MIDI on Manual II	A		1		1
	MIDI on Manual II	B		1		1
	MIDI on Manual III	A		1		1
	MIDI on Manual III	B		1		1
	MIDI on Pedal	A		1		1
	MIDI on Pedal	B		1		1
TOTALS:				18	8	10

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TOTALS:	<i>Division</i>	<i>Pipes</i>	<i>Stops</i>	<i>Pipe Ranks</i>	<i>New Ranks</i>	<i>Existing Ranks</i>	<i>Digital Ranks</i>	<i>Audio Channels</i>
	Great	537	6	9	0	9	6	4
	Swell	0	0	0	0	0	16	4
	Choir	476	8	8	0	8	4	2
	Pedal	100	2	2	0	2	7	0
	Totals:	1113	16	19	0	19	33	10

AUDIO	<i>Division</i>	<i>No. of Amplifiers</i>	<i>Amplifier</i>	<i>Channels Used</i>	<i>No. of Speakers</i>	<i>Speaker Cabinet</i>
	Great	2	WTC-400	4	8	WTC-1103
	Swell	2	WTC-400	4	8	WTC-1103
	Choir	1	WTC-400	2	4	WTC-1103
	Pedal	0	WTC-400	0	0	WTC-1103
	Main Bass	1	WTC-400	1	1	WTC B-2000
	Totals:	6		11	21	

CONSOLE	<i>Division</i>	<i>Drawknobs</i>	<i>Tilting Tablets</i>	<i>Expression Shoes</i>	<i>Thumb Pistons</i>	<i>Toe Pistons</i>	<i>Division Cancels</i>	<i>Piston Lights</i>
	General			1				
	Comb Action				36	18	5	
	Reversibles				18	8		10
	Couplers		16					
	Great	14						
	Swell	19		1				
	Choir	19		1				
	Pedal	19						
	Totals:	71	16	3	54	26	5	10