

NAME OF PROJECT:		RENOVATIONS TO GRACE BAPTIST CHURCH (SANCTUARY BUILDING - ALTERNATE S-2)	
ADDRESS:		1401 N. COLLEGE RD, WILMINGTON, NC 28405	
PROPOSED USE:		A-3 (ASSEMBLY)	E-Mail: shawn@hostetlerarchitecture.com
OWNER OR AUTHORIZED AGENT:		Roger Hayden	PHONE: (910) 233-0044 EMAIL: rhayden@wilmingtonchristian.com
OWNED BY:		<input type="checkbox"/> CITY/COUNTY	<input checked="" type="checkbox"/> PRIVATE
		<input type="checkbox"/> CITY	<input checked="" type="checkbox"/> COUNTY
<input type="checkbox"/> STATE			
CODE ENFORCEMENT JURISDICTION:			
<hr/>			
LEAD DESIGN PROFESSIONAL:		HOSTETLER ARCHITECTURE, PLLC	
DESIGNER		NAME	LICENSE NO.
ARCHITECTURAL	HOSTETLER ARCHITECTURE	SHAWN E. HOSTETLER	11926
CIVIL	NOT APPLICABLE	NOT APPLICABLE	(XXX) XXX-XXXX
ELECTRICAL	MCDOWELL CONSULTING ENG.	GREGORY L. MCDOWELL	118518
FIRE ALARM	MCDOWELL CONSULTING ENG.	GREGORY L. MCDOWELL	118518
PLUMBING	MCDOWELL CONSULTING ENG.	STEVEN H. EVERHART	23933
MECHANICAL	MCDOWELL CONSULTING ENG.	STEVEN H. EVERHART	23933
SPRINK-STANDPIPE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE
STRUCTURAL	A STRUCTURAL GUY	JASON R. WADE	038807
PRECAST	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE
TRUSS	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE
OTHER	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE

BUILDING DATA (FROM SHELL BUILDING CONSTRUCTION 2012)									
CONSTRUCTION TYPE:	<input type="checkbox"/> I-A	<input type="checkbox"/> I-B	<input type="checkbox"/> II-A	<input type="checkbox"/> II-B	<input type="checkbox"/> III-A	<input checked="" type="checkbox"/> III-B			
	<input type="checkbox"/> IV-A	<input type="checkbox"/> IV-B	<input type="checkbox"/> V-A	<input type="checkbox"/> V-B					
MIXED CONSTRUCTION:	<input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES	TYPES				
SPRINKLERS:	<input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES	<input type="checkbox"/> PARTIAL	<input type="checkbox"/> NFPA 13	<input type="checkbox"/> NFPA 13R	<input type="checkbox"/> NFPA 13D			
STANDPIPES:	<input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES	<input type="checkbox"/> CLASS I	<input type="checkbox"/> WET	<input type="checkbox"/> DRY CLASS	<input type="checkbox"/> COMBINED			
FIRE DISTRICT:	<input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES							
BUILDING HEIGHT	35'-0" FEET		2 _____ NO. OF STOREY(S)		<input type="checkbox"/> UNLIMITED PER				
MEZZANINE:	<input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES (EXISTING)							
HIGH RISE:	<input type="checkbox"/> NO	<input type="checkbox"/> YES	CENTRAL REFERENCE SHEET NO. (IF PROVIDED) _____						

GROSS BUILDING AREA: FLOOR	EXISTING (SQ. FT.)	NEW (SQ. FT.)	SUBTOTAL
6TH FLOOR			
5TH FLOOR			
4TH FLOOR			
3RD FLOOR			
2ND FLOOR	6,184 SF		6,184 SF
MEZZANINE:	N/A		
1ST FLOOR	24,753 SF		24,753 SF
BASEMENT	N/A		
TOTAL	30,937 SF		30,937 SF

PRIMARY OCCUPANCY:

<input type="checkbox"/> A-1	<input type="checkbox"/> A-2	<input checked="" type="checkbox"/> A-3	<input type="checkbox"/> A-4	<input type="checkbox"/> A-5	<input type="checkbox"/> H-1	<input type="checkbox"/> H-2	<input type="checkbox"/> H-3	<input type="checkbox"/> H-4
<input type="checkbox"/> BUSINESS	<input type="checkbox"/> EDUCATIONAL	<input type="checkbox"/> F-1	<input type="checkbox"/> F-2	<input type="checkbox"/> HIGH-HAZARD	<input type="checkbox"/> I-1	<input type="checkbox"/> I-2	<input type="checkbox"/> I-3	<input type="checkbox"/> I-4 I-3 USE CONDITION
<input type="checkbox"/> H-5	<input type="checkbox"/> INSTITUTIONAL	<input type="checkbox"/> I-1	<input type="checkbox"/> I-2	<input type="checkbox"/> I-3	<input type="checkbox"/> 1	<input type="checkbox"/> 2		
<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5						
<input type="checkbox"/> MERCANTILE	<input type="checkbox"/> R-1	<input type="checkbox"/> R-2	<input type="checkbox"/> R-3	<input type="checkbox"/> R-4	<input type="checkbox"/> S-1	<input type="checkbox"/> S-2	<input type="checkbox"/> HIGH-PILED	
<input type="checkbox"/> UTILITY AND MISCELLANEOUS				<input type="checkbox"/> PARKING GARAGE	<input type="checkbox"/> OPEN	<input type="checkbox"/> ENCLOSED	<input type="checkbox"/> REPAIR	

SECONDARY OCCUPANCY: NOT APPLICABLE

SPECIAL OCCUPANCY:

<input type="checkbox"/> S-2 ENCLOSED PARKING GARAGE W/S-2 OPEN PARKING ABOVE	<input type="checkbox"/> UNLIMITED HEIGHT FOR B, M, AND R
<input type="checkbox"/> PARKING BENEATH R	<input type="checkbox"/> R-2 TYPE IIIA
<input type="checkbox"/> R-2 TYPE IIIA	<input type="checkbox"/> R-2 TYPE IIIA
<input type="checkbox"/> S-2 ENCLOSED PARKING WITH A, B, M OR R ABOVE	<input type="checkbox"/> OPEN PARKING BENEATH A, I, B, M AND R

MIXED OCCUPANCY: ☒ NO ☐ YES SEPARATION: NOT APPLICABLE HR. EXCEPTION: NOT APPLICABLE

ACTUAL AREA OF OCCUPANCY A ALLOWABLE AREA OF OCCUPANCY A		ACTUAL AREA OF OCCUPANCY B ALLOWABLE AREA OF OCCUPANCY B		1			
STORY NO.	DESCRIPTION AND USE	(A) BLOG. AREA PER STORY (ACTUAL)	(B) TABLE 503 AREA (PERMITTED)	(C) AREA FOR OPEN SPACE INCREASE ¹	(D) AREA FOR SPRINKLER INCREASE ²	(E) ALLOWABLE AREA OR UNLIMITED ³	(F) MAXIMUM BUILDING AREA ⁴
ONE	ASSEMBLY	24,753 GSF	EXISTING	EXISTING	N/A	N/A	EXISTING
TWO	EDUCATIONAL	6,184 GSF	EXISTING	EXISTING	N/A	N/A	EXISTING

ALLOWABLE HEIGHT					
	ALLOWABLE (TABLE 503)	INCREASE FOR SPRINKLERS		SHOWN ON PLANS	CODE REFERENCE
TYPE OF CONSTRUCTION	TYPE III-B	N/A		TYPE III-B	
BUILDING HEIGHT IN FEET	55 FEET	FEET = $H + 20'$	N/A	35 FEET	SECT. 504.2
BUILDING HEIGHT IN STORIES	2 STORIES	STORIES = $1 +$	N/A	2 STORY	SECT. 504.2

FIRE PROTECTION REQUIREMENTS: LIFE SAFETY PLAN SHEET NO., IF PROVIDED		SHEET G100				
	RATING	W/SPRINKLER REDUCTION	DETAIL NO. AND SHEET NO.	DETAIL NO. FOR RATED ASSEMBLY SEE NO. 4	DESIGN NO. FOR RATED PENETRATIONS	DETAIL NO. FOR RATED JOINT SEE NO. 4
	REQ'D					
STRUCTURAL FRAME, INCLUDING COLUMNS, GIRDERS, TRUSSES						
NONBEAR'G WALLS AND PARTITIONS EXTERIOR INTERIOR						
FLOOR CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS						
ROOF CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS						

	REQUIRED HOURLY	DETAIL NO. AND SHEET NO.	DESIGN NO. FOR RATED PENETRATIONS ⁴	DESIGN NO. FOR RATED ASSEMBLIES ⁴
INTERIOR WALLS:				
BEARING	0			
NON-BEARING	0			
CEILING-FLOOR ASSEMBLY:	0			
BEAMS:	0			
COLUMNS:	0			
CEILING-ROOF ASSEMBLY:	N/A			
SHAFTS-EXIT:	N/A			
SHAFTS-OTHER:	N/A			
CORRIDOR SEPARATION:	1	1/G201	HILT: W-L-7042	U.L. DESIGN: U305
OCCUPANCY SEPARATION:	N/A			
PARTY/FIRE WALL SEPARATION:	N/A			
SMOKE BARRIER SEPARATION:	0			
TENANT SEPARATION:	N/A			
AREA OF RESCUE ASSISTANCE:	N/A			
CONTROL AREA: (TABLE 414.2.2)	N/A			
FOOTNOTES:				
1.	REQUIRED IF WALL TO PROPERTY LINE OR ASSUMED LINE IS LESS THAN 30 FEET.			
2.	ALL FIRE RATED WALLS SHALL BE IDENTIFIED ON PLANS BY HATCHING, SHADING, ETC.; SHOW LEGEND.			
3.	IDENTIFY CODE SECTION WHEN USING ANY SPECIAL EXCEPTIONS, ETC.			
4.	REPRODUCE FULL UL OR OTHER APPROVED AGENCIES DETAILS OR REPRODUCTIONS OF RATED ASSEMBLIES/PENETRATIONS ON THE DRAWINGS.			

LIFE SAFETY SYSTEM:						
EMERGENCY LIGHTING:	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES				
EXIT SIGNS:	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES				
SMOKE DETECTION SYSTEMS:	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES				
PANIC HARDWARE:	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES				
FIRE ALARM:	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES				
EXIT REQUIREMENTS:						
DEAD END-PERMITTED	<u>20</u>	FEET				
TRAVEL DISTANCE-PERMITTED	<u>200</u>	FEET (SEE LIFE SAFETY PLAN FOR ACTUAL TRAVEL DISTANCES)				
SPACE DESCRIPTION	AREA - SF	AREA PER OCCUPANT (TABLE 1004.1.1)	OCCUPANT LOAD	EXIT WIDTH (SECTION 1005.1) 140.8 X 0.2 = 28.16" (36" MIN.)	EXIT WIDTH SHOWN ON PLAN	EXIT QUANTITY
FIRST FLOOR	<u>24.753</u>	(EXISTING FIXED SEATING - 845)		<u>36" (MIN.)</u>	<u>5 PROVIDED</u>	
SECOND FLOOR	<u>6.184</u>	<u>20 CR/200 OFF.</u>	<u>180</u>	<u>180 X 0.3 = 54"</u>	<u>36" EXISTING 48" STAIR</u>	<u>2 PROVIDED</u>

DESIGN LOADS:		CATEGORY/USE GROUP		V		(I, II, III, IV)	
CLASSIFICATION OF BUILDING:	ROOF	20	PSF				
LIVE LOAD:	ATTIC	N/A	PSF				
	MEZZANINE	N/A	PSF				
	FLOOR	40	PSF				
SNOW LOAD:	FLAT-ROOF LOAD	10	PSF	IMPORTANCE FACTOR	1.0		
	EXPOSURE FACTOR				1.0		
WIND LOAD:	BASIC SPEED		MPH	(3-SECOND GUST, ASCE-7-98 EDITION)			
	EXPOSURE			IMPORTANCE FACTOR	1.0		
		.18		COMPONENTS AND CLADDING	"B"		
EARTHQUAKE LOAD:		"B"		SITE CLASS	F		
		II		IMPORTANCE FACTOR	1.0		
WIND BASE SHEARS (FOR MWFRS)				V _x =	26.1K	V _y =	39.2K

TOTAL SQ. FEET	FUNCTION OF SPACE	FLOOR AREA IN SQ. FT. PER OCCUPANT		TOTAL OCCUPANT LOAD FOR THE SPACE	RATIO MALE AND FEMALE	TOTAL MALE	TOTAL FEMALE
REFER TO PLUMBING DRAWINGS							
OCCUPANCY USE	WATER CLOSET M F	URINALS	LAVS	DRINKING FOUNTAINS		NOTES AND EXCEPTIONS	
REFER TO PLUMBING DRAWINGS							
					0	*PER SECTION 2002.2: EXCEPTION 2 (ADDITIONAL TOILET ROOM PROVIDED)	

BUILDING DRAIN SIZE	NUMBER OF DRAIN FIXTURES	WATER SERVICE SIZE	NUMBER OF WATER SERVICES	TOTAL FIXTURE UNIT LOAD	NOTES
REFER TO PLUMBING DRAWING					

THERMAL ENVELOPE	
METHOD OF COMPLIANCE	
<input checked="" type="checkbox"/> PRESCRIPTIVE	<input type="checkbox"/> PERFORMANCE
<input type="checkbox"/> ENERGY COST BUDGET	
ROOF/CEILING ASSEMBLY	
DESCRIPTION OF ASSEMBLY	ASPHALT SHINGLES, 30# ROOF FELT, 5/8" PLYWOOD ROOF DECK, ENGINEERED ROOF TRUSS, 5/8" GYPSUM BOARD W/ BLOWN-IN FIBERGLASS INSULATION
U-VALUE OF TOTAL ASSEMBLY	.033
R-VALUE OF INSULATION	R30
SKYLIGHTS IN EACH ASSEMBLY	NOT APPLICABLE
U-VALUE OF SKYLIGHT	NOT APPLICABLE
TOTAL SF IN EACH ASSEMBLY	NOT APPLICABLE
EXTERIOR WALLS	
DESCRIPTION OF ASSEMBLY	VINYL/FIBER CEMENT SIDING, 7/16" GYPSUM BOARD ON WOOD STUDS W/ R19 FIBERGLASS BATT INSUL.
U-VALUE OF TOTAL ASSEMBLY	.067
R-VALUE OF INSULATION	R19
OPENINGS (WINDOWS OR DOORS WITH GLAZING)	
U-VALUE OF ASSEMBLY	.32
SHADING COEFFICIENT	.26
PROJECTION FACTOR	0.00
LOW E REQ'D, IF APPLICABLE	YES
DOOR R-VALUES	
DESCRIPTION OF ASSEMBLY	GLASS DOOR WITH 2" INSULATION
U-VALUE OF TOTAL ASSEMBLY	NOT APPLICABLE
R-VALUE OF INSULATION	NOT APPLICABLE
OPENINGS (WINDOWS OR DOORS WITH GLAZING)	
U-VALUE OF ASSEMBLY	NOT APPLICABLE
LOW E REQ'D, IF APPLICABLE	NOT APPLICABLE
DOOR R-VALUES	
DESCRIPTION OF ASSEMBLY	GLASS DOOR WITH 2" INSULATION
U-VALUE OF TOTAL ASSEMBLY	NOT APPLICABLE
R-VALUE OF INSULATION	NOT APPLICABLE
FLOORS SLAB ON GRADE	
DESCRIPTION OF ASSEMBLY	4" SLAB ON GRADE W/ 24" PERIMETER INSUL.
U-VALUE OF TOTAL ASSEMBLY	.1429
R-VALUE OF INSULATION	R15
HORIZONTAL, REQUIREMENT	YES
SLAB HEATED	NO

SIGNED: _____
NAME: SHAWN E. HOSTETTLER, A.I.A.
TITLE: PRINCIPAL, KOT HOSTETTLER ARCHITECTS, PLLC.

CONSULTANTS

GRACE BAPTIST CHURCH

WILMINGTON
NORTH CAROLINA

OSTETLER ARCHITECTURE
STATE REGISTRATION

ARCHITECT OF RECORD
SHAWN E. HOSTETLER



CONSTRUCTION DOCUMENTS : 02.08.19

MARK	DATE	DESCRIPTION
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△		
△		
△		

DRAWN BY:	PROJ. MGR:
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SHEET CONTENT

SANCTUARY BUILDING APPENDIX B

JOB NO.
18013

SHEET
G001