SPRING HILL UNITED METHODIST CHURCH CHAPEL ROOF REPLACEMENT

1960 SPRING HILL CHURCH RD, LILLINGTON, NC 27546





FIRE PROTECTION REQUIREMENTS



DRAWING LIST:
G001 COVER SHEET
R101 ROOF PLANS
R500 ROOF SECTIONS
R501 DETAILS
R502 DETAILS

BUILDING CODE REFERENCE:
2018 N. GERGY GUNGEY
2018 N. GERGY CONSERVATION CODE
2018 N. GERGY CONSERVATION CODE
2018 N. GEG: FREF PREVENTION
2018 N. GEG: FREF PREVENTION
2018 N. GEG: FILE GAS
2018 N. GEG: FUEL GAS
2018 N. GEG: FUEL GAS
2018 N. GEG: FLUMBRING



DK ENGINEERING, PLLC 644 HOLLY SPRINGS ROAD, SUITE 136 HOLLY SPRINGS, NC 27540 NC FIRM LICENSE P-3102

GENERAL NOTES:

 THESE DOCUMENTS ARE THE PROPERTY OF DIX ENGINEERING, PLU WHICH RETAINS ALL RIGHTS, THEY MAY ONLY BE USED FOR THE SPECIFI PROJECT DENTIFIED HEREIN OR APPROVED EXTENSIONS, ANY OTHER US IS PROHIBITED WITHOUT PRIOR WRITTEN CONSENT FROM DEMONSTRING PLU AND APPROPRIENT CONSENT FROM DEMONSTRING PLU AND APPROPRIENT CONSENT.

- CONTRACTOR IS RESPONSIBLE FOR FISILO-KERPHING ALL DIMENSIONS COMPONENTS, AND EQUIPMENT PENETRATION LOCATIONS.
 ONLY ONE DETAIL MIGLATOR MAY BE SHOWN FOR EACH ROO PENETRATION TYPE: ALL SINULAR PENETRATIONS MUST FOLLOW TH TYPICAL RESPIN GOTERL MUSTES NOTED OTHERMISE.
- TYPICAL PLASHING DETAIL UNLESS NOTED OTHERWISE.

 4. NOTES PROVIDE TYPICAL WORK LOCATIONS; IT IS THE CONTRACTO RESPONSIBILITY TO QUANTIFY AND CONFIRM ALL LOCATIONS.

 5. LIGHT LINES INDICATE EXISTING STRUCTURES/COMPONENTS THAT WILL
- RESPONSED THE STATE OF THE STRUCTURES OF THE STATE WILL BE RETAINED, WHILE DARK LINES SHOW NEV ELEMENTS TO BE ADDED.

 ELEMENTS/COMPONENTS NOT SHOWN IN DRAWINGS ARE TO BE REMOVE AS PART OF PERSEARATION FOR WORK.

CD	ISSUED FOR BID	7/25/2025
CD	100% CONTRACT DOCUMENTS	7/25/2025
CD	90% CONTRACT DOCUMENTS	6/20/2025
NO.	REVISION / ISSUE	DATE



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THIS LINE IS 1" LONG

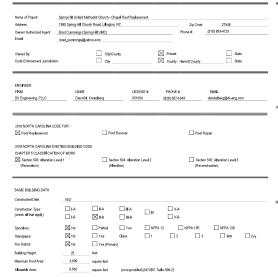
SCALE DRAWING ACCORDINGLY
IF NOT PRINTED ON 24X36

P2025.1014 7-25-2025

COVER SHEET

G001

APPENDIX B BUILDING CODE SUMMARY - FOR COMMERCIAL ROOF PROJECTS



PRIMARY OCCUPA								
Assembly:		A-2		☐ A-4	A-5			
Business:	□ в							
Educational	□ E							
Factory:	F-1 (Moderate)		F-2 (Low Haz	card)				
High Hazard:	H-1 (Detonate)	☐ H-2 (De	(agrate)	H-3 (Combust)	H-4 (Health)	H=5 (HPM)		
Institutional	I-1 Condition 1	I-1 Conc	ation 2	☐ 1-2	□ 1-3	□ 14		
Mercentile:								
Residential	R-1	R-2	□ R-3	R-4				
Storage:	S-1 (Moderate) S-2 (Low Hazard)							
Utility:	□ v							
ACCESSORY OCCUPANCY (ALL SECTORS) (NMA)								
Assembly:	□ A-1	A-2	□ A-3	A-4	A-5			
Business:	⊠B							
Educational	□ E							
Factory:	F-1 (Moderate)		F-2 (Low Haz	card)				
High Hazard:	H-1 (Detonate)	☐ H-2 (Der	fagrate)	H-3 (Combust)	H-4 (Health)	H-5 (HPM)		
Institutional	I-1 Condition 1	☐ I-1 Cond	ation 2	☐ I-2	□ 1-3	□ 1-4		
Mercentile:								
Residential	R-1	R-2	□ R-3	R-4				
Storage:	S-1 (Moderate)		S-2 (Low Hat	card)				
Utility:	□ v							
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	FIRE PROTECTION RATING		DESIGN # FOR RATED		
BUILDING ELEMENT	REQUIRED	PROVIDED	ASSEMBLY	COMMENTS	
Roof Construction Comenitious Wood Fiber	0 HR	OHR	Design No. P402	Non-combustible, unprotested	
STRUCTURAL SUMMARY					
Components & Cladding Wind Uplit	Resistance: (ASCE 7-16)			All Sectors	
Basic Wind Speed	120	mph	Risk Category	II.	
Internal Pressure Coeff.	±0,18		Exposure Category		
Wind Uplift Nominal Design Pressure	rs:				
Zone 1 (Field)	-38	psf	Overhang Zone 1 (Field)		psf
Zone 2e (Perimeter Eave)	-38	pef	Overhang Zone 2e (Perimeter Eave) Overhang Zone 2n (Perimeter Rake)		-44 pef -61 pef
Zone 2n (Perimeter Rake)	-55	pef			
Zone 2r (Perimeter Ridge)	-55	pef pef	Overhang Zone 2r (Perimeter Ridge Overhang Zone 3e (Corner Eave)		61psf
Zone 3e (Corner Eave)	-65				-71 paf
Zone 3r (Corner Ridge)	-66	pef	Overhang Zone 3r (Corner Ric	áge)	-82 pef
Roof System Dead Load					
Existing System		sf			
Replacement system	10,98 p	sf (7% force increas	se due to deadload)		
ENERGY SUMMARY					
NEW Rooficeiling Assembly	Self-arbered r	oembrane underlas	ment, retrofit light-gauge metal su	b-framing	
Description of Assembly:			standing seam metal roof		
Number of Skylights	NA				
All Sectors	14/4				
R-Value of Insulation (min):	R-16.8				

