



Fire Marshal Division

October 9, 2018

Williams Hicks P.O. Box 655 Goldston, NC 27252

Re: Little Miracles Daycare

Application Numbers – BCOM1809-0002

Mr. Hicks,

Thank you for submitting the plans for the Daycare up-fit. The plans have been carefully reviewed by a qualified code enforcement official to examine for full compliance with the North Carolina Fire Prevention Code and all other fire protection regulatory documents. There are some items that were found during the plan review process that need to be addressed before a final inspection of the new facility can be given. These items are outlined and described below.

• 1003.2.11 Means of egress illumination.

- o The means of egress, **including the exit discharge**, shall be illuminated at all times the building space served by the means of egress is occupied
- The portion of the exterior exit discharge immediately adjacent to exit discharge doorways in buildings required to have two or more exits.

• 906.1 Fire Extinguishers

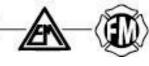
- Fire extinguishers shall be located as not to exceed 75' of travel distance to an extinguisher.
- The fire extinguishers provided shall have a minimum rating of 2A10:BC and shall not be installed higher than 5 feet above the finished floor.

• 404.2 Fire Safety and Evacuation Plans

• An approved fire safety and evacuation plan shall be prepared, posted and maintained for Group E occupancies.









- o Fire alarm plans shall be submitted for review and approval.
- o The fire alarm system plans shall bear the seal of a licensed P.E. within the state of North Carolina.
 - Spec Sheets shall be submitted for all fire alarm system devices.
 - Any changes to the fire alarm system shall bear the seal of approval of a P.E.
 - Pull stations required at exits from nursery.

• 1008.1.10 Panic Hardware

 Doors serving spaces in a Group E occupancy with 49 > persons must be provided with panic hardware and listed in accordance with UL 305.

Notes

- Please provide fire extinguisher locations, FACP location, smoke detector locations
- o See note on drawing referencing door swing reversal
- o Please schedule all fire inspections with the Fire Marshal's Office.
- 0 910-984-4003

Thank you again for submitting the plans for the Daycare remodel Please review the plans and adhere to any notes and alterations that were made in addition to the original drawings. These remarks are for the plans that were submitted and its original intent. These remarks do not apply if the original intent changes or what was submitted on the above date changes. If you have any questions, please do not hesitate to call this office

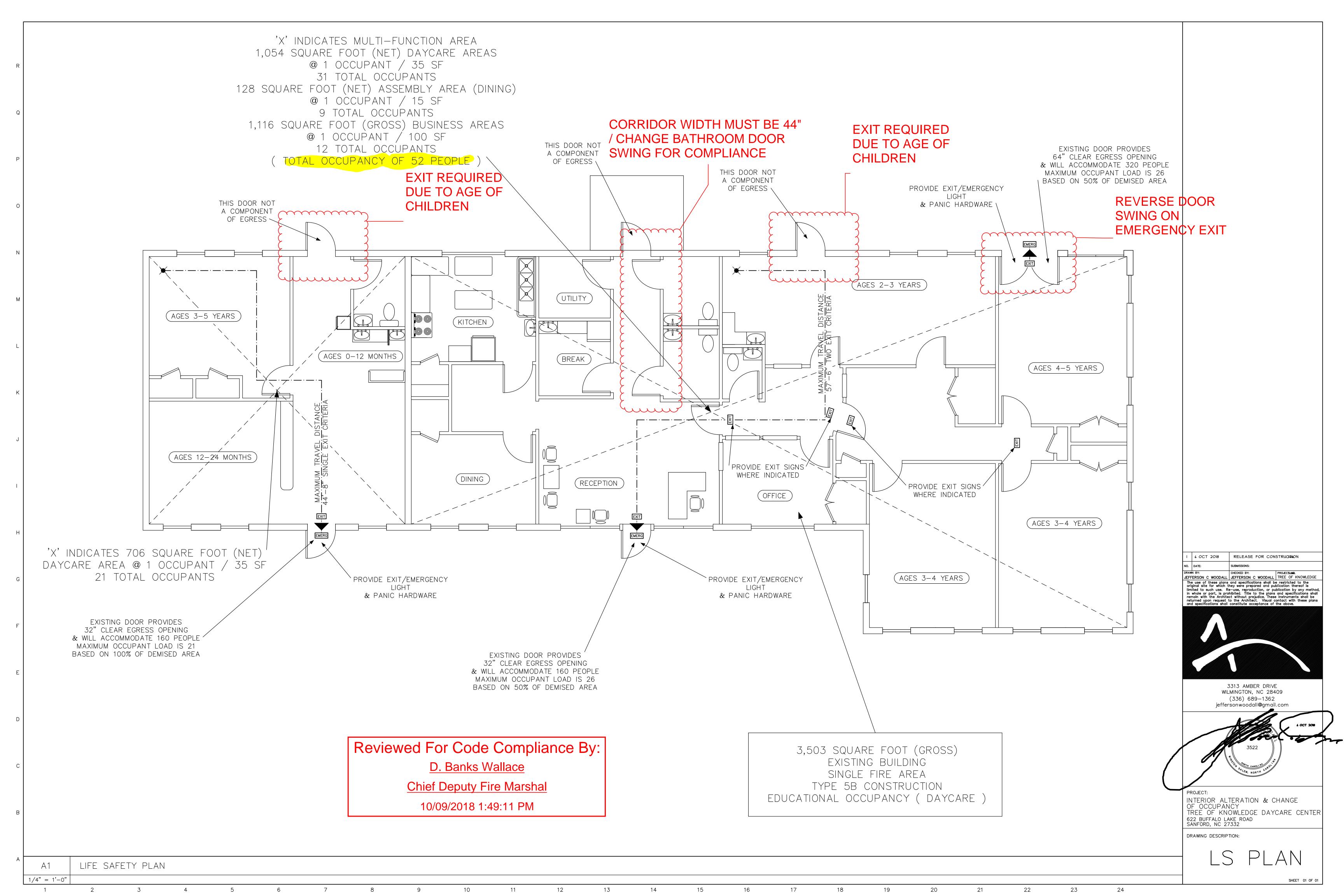
Again, thank you and we look forward to working with you during the construction period!

Sincerely,

D. Banks Wallace

Chief Deputy Fire Marshal

D. Bonds Walleve



2012 APPENDIX B BUILDING CODE SUM

FOR ALL COMMERCIAL P

Name of Project: TREE OF KNOWLEDGE Address: 622 BUFFALO LAKE ROAD, SANFORD, NC 6 Code **2733**2 Proposed Use: DAYCARE CENTER (OCCUPANCY GROUP E) Phone # (919) 427-8889 E-Mail whicks1765@gmail.com Owner/Authorized Agent: BILL HICKS ☐ Private Owned By: ☐ City/County ☐ City - SANFORD ☐ County - HARNETT ☐ State Code Enforcement Jurisdiction: LEAD DESIGN PROFESSIONAL: JEFFERSON C. WOODALL, ARCHITECT DESIGNER LICENSE # FIRM NAME E-MAIL JCW, A **JCW** 3522 Architectural (336) 689-1362 jeffersonwoodall@gmail.com Civil SITE PLAN PROVIDED BY OWNER Electrical $NOT\ APPLICABLE- {\tt any changes\ to\ existing\ electrical\ systems\ to\ be\ supplied\ by\ nc\ licensed\ sub-contractor}$ Fire Alarm TO BE SUPPLIED BY OWNER'S FIRE ALARM SYSTEM DESIGNER Plumbing NOT APPLICABLE – ANY CHANGES TO EXISTING ELECTRICAL SYSTEMS TO BE SUPPLIED BY NC LICENSED SUB-CONTRACTOR NOT APPLICABLE — ANY CHANGES TO EXISTING MECHANICAL SYSTEMS TO BE SUPPLIED BY NC LICENSED SUB-CONTRACTOR Mechanical Sprinkler-Standpipe NOT APPLICABLE Structural **NOT APPLICABLE** Retaining Walls >5' High NOT APPLICABLE Other NOT APPLICABLE **2012 EDITION OF NC CODE FOR:** New Construction Addition Upfit ☐ Alteration & Change of Occupancy **EXISTING:** Reconstruction Repair Renovation **CONSTRUCTED: 1998** ORIGINAL USE(S) (Ch. 3): MEDICAL OFFICES (B OCCUPANCY) CURRENT USE(S) (Ch. 3): MEDICAL OFFICES (B OCCUPANCY) RENOVATED: UNKNOWN PROPOSED USE(S) (Ch. 3): DAYCARE (E OCCUPANCY) BASIC BUILDING DATA Пп-а \square IV III-A □V-A **Construction Type:** II-A □II-B ∃I-В □III-B \square V-B □ Partial □ Yes □ NFPA 13 □NFPA 13R □NFPA 13D **Sprinklers:** □No Class \square I □Wet □Dry Пп **Standpipes:** No □Yes \square No ☐Yes (Primary) \square No **Fire District:** Flood Hazard Area: **Building Height: Gross Building Area:** NEW (SQ FT) FLOOR EXISTING (SQ FT) SUB-TOTAL 6th Floor NA NA NA 5th Floor NA NA NA 4th Floor NA NA NA 3rd Floor NA NA NA 2nd Floor NA NA NA Mezzanine NA NA NA 1st Floor 3503 3503 0

NA

NA

3503

NA

3503

Basement

TOTAL

ALLOWABLE AREA
Occupancy:
Assembly $\square A-1$ $\square A-2$ $\square A-3$ $\square A-4$ $\square A-5$
Business
Educational
Factory
Institutional \Box I-1 \Box I-2 \Box I-3 \Box I-4
Institutional
Welcantile
Residential R-1 R-2 R-3 R-4 Storage S-1 Moderate S-2 Low High-piled
Parking Garage Open Enclosed Repair Garage
Utility and Miscellaneous
Accessory Occupancies:
Assembly $\square A-1$ $\square A-2$ $\square A-3$ $\square A-4$ $\square A-5$
Business
Educational U Factory □F-1 Moderate □F-2 Low
Hazardous H-1 Detonate H-2 Deflagrate H-3 Combust H-4 Health H-5 HPM
Institutional II-1 II-2 II-3 II-4
I-3 Condition $\Box 1$ $\Box 2$ $\Box 3$ $\Box 4$ $\Box 5$
Mercantile
Storage S-1 Moderate S-2 Low High-piled
Parking Garage Open Enclosed Repair Garage
Utility and Miscellaneous
Incidental Uses (Table 508.2.5):
Furnace room where any piece of equipment is over 400,000 Btu per hour input
Rooms with boilers where the largest piece of equipment is over 15 psi and 10 horsepower
Refrigerant machine room
Hydrogen cutoff rooms, not classified as Group H
Incinerator rooms
Paint shops, not classified as Group H, located in occupancies other than Group F
Laboratories and vocational shops, not classified as Group H. located in a Group E or I-2 occupancy
Laundry rooms over 100 square feet
Group I-3 cells equipped with padded surfaces
☐ Group I-2 waste and linen collection rooms
Waste and linen collection rooms over 100 square feet
Stationary storage battery systems having a liquid electrolyte capacity of more than 50 gallons, or a lithium-
ion capacity of 1,000 pounds used for facility standby power, emergency power or uninterrupted power supplies
Rooms containing fire pumps
Group I-2 storage rooms over 100 square feet
Group I-2 commercial kitchens
Group I-2 laundries equal to or less than 100 square feet
Group I-2 rooms or spaces that contain fuel-fired heating equipment
Special Uses:
413 🗆 414 🗀 415 🗀 416 🗀 417 🗀 418 🗀 419 🗀 420 🗀 421 🗀 422 🗀 423 🗀 424
\square 425 \square 426 \square 427
Special Provisions: □ 509.2 □ 509.3 □ 509.4 □ 509.5 □ 509.6 □ 509.7 □ 509.8 □ 509.9

Mixed Occupancy:	∐ No	☐ Yes	Separation: NA	Exception: NA	
☐Incidental Use Se	eparation (50	08.2.5)			
This separation i	s not exempt	as a Non-Sep	parated Use (see exception	ons).	
□Non-Separated U	Jse (508.3)				
The required typ	e of construc	tion for the bu	ilding shall be determin	ned by applying the height and area	
				ding. The most restrictive type of	
			the entire building.		
☐Separated Use (:					
For each story, the	ne area of the	occupancy sl	nall be such that the sum	of the ratios of the actual floor area	of
each use divided	by the allow	able floor are	a for each use shall not	exceed 1.	
<u>Actual Area</u> Allowable Area			Actual Area of Occupa llowable Area of Occup	·	
		+		<u> </u>	

STORY NO.	DESCRIPTION	(A)	(B)	(c)	(D)	(E)	(F)
	AND USE	BLDG AREA	TABLE 503 ⁵	AREA FOR	AREA FOR	ALLOWABLE	MAXIMUM
		PER STORY	AREA	FRONTAGE	SPRINKLER	AREA OR	BUILDING
		(ACTUAL)		INCREASE ¹	INCREASE ²	UNLIMITED ³	AREA ⁴
ONE	DAYCARE	3503	9500	NA	NA	9500	9500

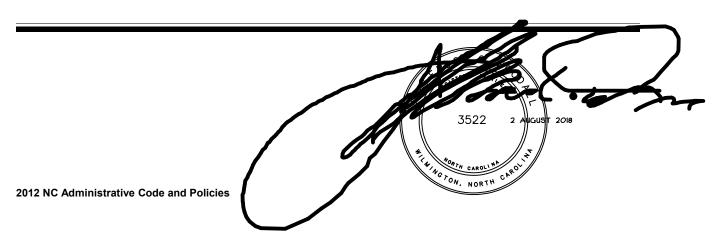
¹ Frontage area increases from Section 506.2 are computed thus:

- a. Perimeter which fronts a public way or open space having 20 feet minimum width = _____(F)
- b. Total Building Perimeter = ____(P)
- c. Ratio (F/P) = ____ (F/P)
 d. W = Minimum width of public way = ____ (W)
- e. Percent of frontage increase $I_f = 100 \left[\overline{F/P} 0.25 \right] \times W/30 = (\%)$

- a. Multi-story building $I_s = 200$ percent
- b. Single story building $I_s = 300$ percent

ALLOWABLE HEIGHT

	ALLOWABLE (TABLE 503)	INCREASE FOR SPRINKLERS	SHOWN ON PLANS	CODE REFERENCE
Type of Construction	Ту	pe 5B	Type 5B	
Building Height in Feet	40'-0"	NA	20'-0"	
Building Height in Stories	1	NA	1	



² The sprinkler increase per Section 506.3 is as follows:

³ Unlimited area applicable under conditions of Section 507.

⁴ Maximum Building Area = total number of stories in the building x E (506.4).

⁵ The maximum area of open parking garages must comply with Table 406.3.5. The maximum area of air traffic control towers must comply with Table 412.1.2.

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE		RATING	DETAIL #	DESIGN #	DESIGN # FOR	DESIGN #
	SEPARATION DISTANCE (FEET)	REQ'D	PROVIDED (W/* REDUCTION)	AND SHEET #	FOR RATED ASSEMBLY	RATED PENETRATION	FOR RATED JOINTS
Structural Frame, including columns, girders, trusses	NA	0	NA	NA	NA	NA	NA
Bearing Walls							
Exterior							
North	>30'-0"	0	NA	NA	NA	NA	NA
East	>30'-0"	0	NA	NA	NA	NA	NA
West	>30'-0"	0	NA	NA	NA	NA	NA
South	>30'-0"	0	NA	NA	NA	NA	NA
Interior	NA	0	NA	NA	NA	NA	NA
Nonbearing Walls and Partitions Exterior walls North East West South Interior walls and partitions	NA	0	NA	NA	NA	NA	NA
Floor Construction Including supporting beams and joists	NA	0	NA	NA	NA	NA	NA
Roof Construction Including supporting beams and joists	NA	0	NA	NA	NA	NA	NA
Shaft Enclosures - Exit	NA	NA	NA	NA	NA	NA	NA
Shaft Enclosures - Other	NA	NA	NA	NA	NA	NA	NA
Corridor Separation	NA	NA	NA	NA	NA	NA	NA
Occupancy Separation	NA	NA	NA	NA	NA	NA	NA
Party/Fire Wall Separation	NA	NA	NA	NA	NA	NA	NA
Smoke Barrier Separation	NA	NA	NA	NA	NA	NA	NA
Tenant Separation	NA	NA	NA	NA	NA	NA	NA
Incidental Use Separation	NA	NA	NA	NA	NA	NA	NA

* Indicate section number permittin	g reduction			
	LIFE SAFETY SYSTEM R	EQUIREMEN		
Emergency Lighting: Exit Signs:	□ No □ Yes □ No □ Yes		1	
Fire Alarm:	□ No □ Yes	352	2 2 August 2018	•
Smoke Detection Systems:	No Ys Partial			
Panic Hardware:	\square No \square fes	NORTH CAR	OLIMA ROV	
		TON NO.	CATH CAT	_
	LIFE SAFETY PLAN REQU	JIREMENTS		
Life Safety Plan Sheet #: LIFE	E SAFETY PLAN NOT REQUIR	RED BY LOCAL COD	E ENFORCEMENT	
☐ Fire and/or smoke rated v	vall locations (Chapter 7)			
Assumed and real propert	ty line locations			

Exterior wall opening area with respect to distance to assumed property lines (705.8)

Oo Oo Oo Oo Oo Oo Oo Oo	ccupancy types ccupant loads f kit access trave ommon path of ead end lengths ear exit widths aximum calcul ctual occupant separate schen proses of occu- ocation of door ocation of door ocation of door ocation of door ocation of door ocation of emer esquare foota	l distances (101) Travel distances (1018.4) For each exit dated occupant load for each each	door load capacity exit door ating where firm rdware (1008. egress locks an agnetic egress in hold-open dewindows (1029) area (902) ke compartment of the context of the co	occupant load 028.8) each exit door 1.10) Ind the amount slocks (1008. Evices 0) Int (407.4) Inay have been	can accommon ceiling and/or tof delay (100 1.9.8)	roof structure	2 August 2018 regress width (1005.1) e is provided for	2		
ACCESSIBLE DWELLING UNITS (SECTION 1107)										
TOTAL UNITS	Accessible Units Required	Accessible Units Provided	Type A Units Required	TYPE A UNITS PROVIDED T APPLICAB	Type B Units Required	Type B Units Provided	TOTAL ACCESSIBLE UNITS PROVIDED			
			1101	THILICADI	<u> </u>					

ACCESSIBLE PARKING

(SECTION 1106)

LOT OR PARKING	TOTAL # OF PA	RKING SPACES	# OF AC	TOTAL #			
AREA	REQUIRED	PROVIDED	REGULAR WITH	VAN SPACI	VAN SPACES WITH		
			5' ACCESS	132" ACCESS	8' access	PROVIDED	
			AISLE	AISLE	AISLE		
NORTH OF	18	18			1	1	
BUILDING	SEE CALCULATIONS BELOW	10			1	1	
BUILDING	CALCULATIONS BELOW		PACES FOR DROP	P-OFF = 18 SPACES	REQUIRED	•	

STRUCTURAL DESIGN

(NOT APPLICABLE - NO CHANGE TO EXISTING STRUCTURAL SYSTEMS)

Importance Factors:		
Live Loads:	Roof Mezzanine Floor	psf psf psf

Ground Snow Load:	psf					
]	Basic Wind Speed Exposure Category Wind Base Shears (fo					Vy =
SEISMIC DESIGN CATEGO	PRY:	\Box A	□в	\Box C	\square D	
Provide the following Seismic I	Design Parameters:					
Occupancy Category	_	\Box I			\square IV	
Spectral Response Ac		%g		$\overline{S_1}$	%g	
Site Classification (Ta		⊟в	\Box C	\Box D		\square F
	ıta Source:			esumptive	e 🔲 Hist	orical Data
Basic structural syste	m (check one)_			_		
	all 🔲 Dual					
	rame Dual			/C or Spe	cial Steel	
	ame Inver		ulum			
Seismic base shear:	$V_X =$	$V_Y =$				
Analysis Procedure:	☐ Simplified	∟ ٰ ٰ ٰ	Equivale	nt Lateral	l Force	☐ Dynamic
Architectural, Mecha	nical, Components a	inchored	l? ∐Yes	∟No		
LATERAL DESIGN CONTR	OL: Earthqu	ake 🗌	Wii	nd 🗆		
SOIL BEARING CAPACITII	ES:					
Field Test (provide cop	y of test report)			_ psf		
Presumptive Bearing of	capacity			psf		
Pile size, type, and cap	acity					
SPECIAL INSPECTIONS RE	EQUIRED:	□Yes	□No			

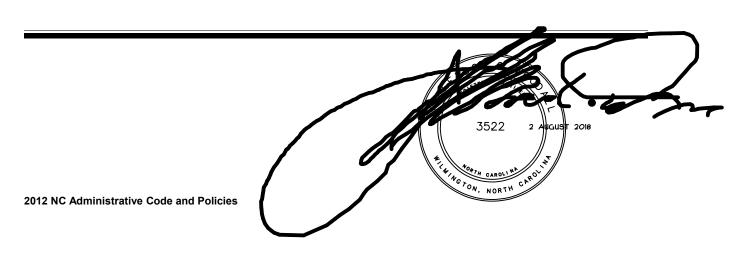
PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

USE		WATER	CLOSETS	URINALS	LAVATORIES		SHOWERS/	DRINKING	FOUNTAINS
		MALE	FEMALE		MALE	FEMALE	TUBS	REGULAR	Accessible
SPACE	EXISTING	2	2	0	2	2	0	0	0
	NEW	0	0	0	0	0	0	0	0
	REQUIRED	2	2	0	2	2	0	PROVIDED IN KITCHEN	

SPECIAL APPROVALS

Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, ICC, etc., describe below)

(NONE REQUIRED – VERIFY WITH LOCAL CODE ENFORCEMENT OFFICIALS)



ENERGY SUMMARY

(NOT APPLICABLE – NO CHANGE TO EXISTING THERMAL ENVELOPE)

Climate Zone: 3 4A 5	
Method of Compliance: □ Prescriptive (Energy Code) □ Performance (Energy Code) □ Prescriptive (ASHRAE 90.1) □ Performance (ASHRAE 90.1)	
THERMAL ENVELOPE	
Roof/ceiling Assembly (each assembly) Description of assembly: U-Value of total assembly: R-Value of insulation: Skylights in each assembly: U-Value of skylight: total square footage of skylights in each assembly:	
Exterior Walls (each assembly) Description of assembly: U-Value of total assembly: R-Value of insulation: Openings (windows or doors with glazing) U-Value of assembly: Solar heat gain coefficient: projection factor: Door R-Values:	
Walls below grade (each assembly) Description of assembly: U-Value of total assembly: R-Value of insulation: Floors over unconditioned space (each assembly) Description of assembly: U-Value of total assembly: R-Value of insulation:	
Floors slab on grade Description of assembly: U-Value of total assembly: R-Value of insulation: Horizontal/vertical requirement: slab heated:	

3522 2 AUGUST 2018

MECHANICAL SUMMARY

(NOT APPLICABLE – MINOR CHANGES TO EXISTING MECHANICAL SYSTEMS TO BE PERFORMED BY NC LICENSED MECHANICAL SUB-CONTRACTOR)

winter dry bulb:summer dry bulb:	
Interior design conditions winter dry bulb: summer dry bulb: relative humidity: 3522 2 August 2018	4
Building heating load:	
Building cooling load: Mechanical Specing Conditioning System	
Mechanical Spacing Conditioning System Unitary description of unit: heating efficiency: cooling efficiency: size category of unit: Boiler Size category. If oversized, state reason.: Chiller Size category. If oversized, state reason.:	
ELECTRICAL SUMMARY NOT APPLICABLE – MINOR CHANGES TO EXISTING ELECTRICAL SYSTEMS TO BE PERFORMED BY NC LICENSED ELECTRICAL SUB-CONTRACTOR)	İ
Method of Compliance: Energy Code: Prescriptive Performance ASHRAE 90.1: Prescriptive Performance	
Lighting schedule (each fixture type) lamp type required in fixture number of lamps in fixture ballast type used in the fixture number of ballasts in fixture total wattage per fixture total interior wattage specified vs. allowed (whole building or space by space) total exterior wattage specified vs. allowed	