

HIGHLAND RIDGE **AMENITY CENTER** MAIL KIOSK 489 FREEDOM TRAIL DRIVE ANGIER, NORTH CAROLINA



SITE MAP

DRAWING INDEX								
SHEET NUMBER	SHEET NAME	REV 01	REV 02	REV 03	REV 04	REV 05		
O-GENERAL								
G0.1	COVER SHEET							
1-ARCHITECT	URAL							
A1.0	KIOSK PLANS							
A2.0	ELEVATIONS, SECTIONS, & DETAILS							

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ENGINEERS PC 709 W. JONES STREET - RALEIGH, NC 27603 TEL 919.832.5680 FAX 919.832.5675 INFO@ROSSLINDEN.COM



THIS SECTIO	N FOR I	
Exterior Wall	Act	
North		
South		
East		
West		
Total		
INCREASE FROM FRONTAGE INC	NTAGE . REASE F	
$I_{F} = 100(\underline{F} = 0.$	23) <u>vv</u> 30	
BOTH BUILDI	NG AND	
Story No.	DISCRIF & USE	
Main Level	U	
1. Frontage are	a increa	
a.	Perin	
b.	Total	
с.	Ratio	
d.	W =	
e.	Perce	
 Unlimited ar Maximum Bi 	ea applio uilding A	
4. The maximum area of		
5. Frontage increase is		

	Mixed	const
Ś	Sprinklers:	Yes
8 8 8 8	Standpipes: Fire District: Building Height: Basement: Mezzanine:	Yes Yes <u>14.</u> Yes Yes
 	High Rise:	Yes g Are
 (High Rise: Gross Building FLOOR	Yes g Are
 (High Rise: Gross Building FLOOR First Floor	Yes g Are
 (High Rise: Gross Building FLOOR First Floor	Yes a Are

Area of Project Tenant/Alteration/Renovation: Area of Construction:

Name of Project: <u>Highland Ridge</u> Address: <u>489 Freedom Trail Drive</u> , Owner or Authorized Agent: Email:john@dclugston Owned By: Privately Code Enforcement Jurisdiction: Name of Jurisdiction: <u>Town of A</u> PROJECT SUMMARY: <u>(U) Ut</u>	Amenity Center Mai Angier, NC John Moxley .com City/County City County sility - Construct a	Kiosk Zip Code Phone # Fax #: State City/County New Mail Kiosk	:27592 :919-691-1170			ROSS LINDEN E N G I N E E R S P C 709 W. JONES STREET RALEIGH, NC 27603 TEL 919.832.5680 FAX 919.832.5675 WWW.ROSSLINDEN.COM		
Lead Design Professional/Pr	struct a New Mail F	John Moxley	919-691-1170			SEAL 25520	U	
DESIGNER F Architectural: Civil: Electrical: Fire Alarm:	IRM	NAM	IE LICENSE	: # TELEPHON 	NE #	BRIAN M. ROSINIT	Ŭ	Ż
Plumbing: Mechanical:						FOR REVIEW OF STRUCTURAL COMPONENTS ONLY		
Sprinkler-Standpipe Structural:Ross Lin Precast:	iden Engineers	Brian Ro	ss, PE 25539	919-832-5	5680	HIGHLAND RIDGE AMENITY MAIL KIOSK - ANGIER, NC		
Trusses:Irus Retaining Walls >5' High Other: Note:	IS Builders	Eric A Gil	оеп, РЕ036322	<u>2 919-467-s</u> 	 9988			ļ
Building Code: 2018 North Cat 2009 NC Reha 2009 Chapter 3 New Building: New Building Addition Existing Building: Renovation Reconstruct Change of U Note: Zoning Re Original Occupancy: UU Utili	rolina State Building b 2006 NC 34 2006 Ch Shell Bu Alteration Inter ion Rep Jse Tenant Cha eview May Be Required ty	Code (NCSBC)	2009 North Carolina S North Carolina Building Existing Building Code t Time Interior Complet Tenant Alteration Alteration to Shell or Occupancy	State Building Coo J Code tion	de			
		NFORMATION						
Primary Occupancies: Assembly: A-1 A-2 Hazardous: H-1 H-2 Institutional: I-1 Condition I-2 Condition I I-3 Condition I I-4 I Mercantile: I Residential: R-1 Storage: S-1 Moderate Parking Garage Utility and Miscellaneous Utility and Miscellaneous I 412 Mixed Occupancies: No	 A-3 A-4 H-3 H-4 1 2 1 2 3 R-3 R-3 R-4 3 R-3 R-4 S-2 Low S-2 Low S-2 Low S-2 Low A03 404 413 414 Yes Separat 	 A-5 H-5 4 5 High-piled closed Repair Gar 405 406 407 415 416 417 ion:Hr. Exce 	Business: Educational: Factory: F	1			AMENITY JOSK	Angier,
Non-Separated Mixed C	ccupancy (508.3)- T a	he required type of cor pplying the height and	struction for the buildin area limitations for eac	ng shall be detern ch of the applical	mined by ble			Ve,
Separated Mixed Occup <u>Actual Area of Occup</u> Allowable Area of Occu	o pancy (508.3.3) - So sł u: p <u>ancy A</u> + pancy A	accupancies to the entir onstruction, so determ ee below for area calcu- nall be such that the su se divided by the allow <u>Actual Area of Occ</u> Allowable Area of Occ	re building. The most re- ined, shall apply to the lations for each story, t im of the ratios of the a able floor area for each cupancy $B \leq 1$.	strictive type of entire building. the area of the oc actual floor area o use shall not exc	ccupancy of each ceed 1.		RIDGE R MAIL	om Trail Dri NC 27592
				<u> </u>			ЫЩ	eed
THIS SECTION FOR NEW, ADD	ITION, CHANGE OF	USE, AND INTERIO	R COMPLETIONS	• • • • •			٩z	Рг
Exterior Wall Actual Length North South	Open L		URED ¹	ben Space 30			ΞIJ	48(
East West	UCREA	SERLY			W		<u>0</u>	
INCREASE FRONTAGE NO FRONTAGE INCREASE	LOWABLE AREA FOR	MULA						
BOTH BUILDING AND TENANT I	MUST BE INDICATI	ED ON CHART BELO	W LLOWABLE RATE OF	MAXIMUM SEP	ARATION		ATE	
Story HolEt USEPER STO (ACTUAL)Main LevelU512.50	SF) AREA (SF) FRC 5,500	N/A N/A	AREA ALLOWABLE N/A 0.056	AREA RE 5,500 SF	QUIRED N/A			
1. Frontage area increases from Se a. Perimeter which	ction 506.3 are com fronts a public way	outed thus: or open space having 2	20 feet minimum width	=	(F)			
b. Total Building Pe c. Ratio (F/P) = d. W = Minimum v	erimeter = (F/P) (F/P) vidth of public way =	(P) = (W)					NOI	
e. Percent of front 2. Unlimited area applicable under 3. Maximum Building Area = total	age increase $I = 100$ conditions of Sectio) [F/P - 0.25] x W/30 = n 507. the building x D (maxi	(%)				REVIS	
4. The maximum area of open park 5. Frontage increase is based on th	ing garages must co e unsprinklered area	mply with Table 406.5. value in Table 506.2	4					
	<u>ALLO</u>	WABLE HEIGH	T ACTUAL BUILDING				<u> </u>	
MOST RESTRICTIVE ALLC (GROUP) HEIC	WABLE BUILDING HT (TABLE 504.3)	INCREASE FOR SPRINKLERS	HEIGHT AS SHOWN O PLANS	ON CODE REF	ERENCE		ž	
Building Height in Feet Building Height in Stories	$\frac{H}{H} = \frac{40' - 0''}{1}$ $S = \frac{1}{1}$	<u>Ν/Α</u> Ν/Α	H= <u>14'-2"</u> S= <u>1</u>	403. 403. 403.	.3.1 .3.1			
	BUILDI	NG DATA					DATE ISSUED:	06/18/2025
							DRAWING BY:	LBG/AKD
Mixed construction:				u-v -			CHECKED BY:	JGM
Standpipes: Yes No	NFPA 13 L NFPA Class: [(Appendix D) ר	A 13K Partially Sţ ☐ I II II III III	Drinklered 🖂 Special Wet 🗌 Dry	Suppression			100%	I.F.P.
Building Height: 14.17'Feet Basement: Yes No Mezzanine: Yes No	_1_Story	1 1001 I IAZAI U						
High Rise: Yes No Gross Building Area:	Life Safety Plan S	heet # (if provided):	A1.0	_			COVER	SHEET
FLOOR EXISTIN First Floor	G (SQFT)	NEW (SQFT) 512.50	SUB-TOTAL 512.50					

G0.1

GENERAL LIFE SAFETY NOTES:

USE: **BUILDING AREA:** PRIMARY LOAD FACTOR: OCCUPANT LOAD: CONSTRUCTION TYPE: SPRINKLERS:

REQUIRED EXITS: PROVIDED EXITS:

DIAGONAL DISTANCE: **REQUIRED EXIT SEPARATION: PROVIDED EXIT SEPARATION:**

REQUIRED EGRESS WIDTH: PROVIDED EGRESS WIDTH:

MAXIMUM COMMON PATH OF TRAVEL: MAXIMUM ALLOWABLE TRAVEL DISTANCE: ACTUAL MAX TRAVEL DISTANCE:

B (BUSINESS) NCSBC 303.1.1 515 SF BUSINESS (100 SF) 5 PPL V-B NO

N/A - OPEN AIR STRUCTURE

N/A – ONE EXIT REQUIRED N/A – ONE EXIT REQUIRED N/A – ONE EXIT REQUIRED

OPEN AIR STRUCTURE

75'-0" 200'-0" 19' - 6"

- Roof decks shall be covered with approved roof coverings secured to the building or structure in accordance with the NCSBC. Roof coverings shall be designed and installed in accordance with the building code and the approved manufacturer's instructions.
- Crickets or saddles shall be installed on the ridge side of any chimney or penetration greater than 30 inches wide as measured perpendicular to the slope. Cricket or saddle coverings shall be sheet metal or of the same material as the roof covering.
- Asphalt shingles shall only be used on roof slopes of 2:12 or greater.
- 4. Roof slopes from 2:12 to 4:12, underlayment shall be two layers applied in the following manner. Apply a minimum 19" wide strip of underlayment felt parallel with and starting at the eaves, fastened sufficiently to hold in place. Starting at the eave, apply 36-inch-wide sheets of underlayment overlapping successive sheets 19 inches minimum and fasten in place.
- Roof slopes from 4:12 or greater, underlayment shall be a minimum of one layer.
- 6. Flashing shall be installed at the wall and roof intersections, at gutters, and wherever there is a change in roof slope or direction and around roof openings. Where flashing is of metal, the metal shall be corrosion resistant with a thickness of not less than 0.019in (No. 26 galvanized sheet)
- 7. Areas prone to ice formation along eaves causing a backup of water shall have an ice barrier that consists of at least (2) two layers of underlayment cemented together or of a self-adhering polymer-modified bitumen sheet. Extend ice barrier min. 18" each side of valleys and other ice prone areas. .
- of the end truss and attached to the top cord of the secondary truss towards the interior of the gable. GC to verify prior to manufacturing of trusses.
- 9. Light Location: Truss manufacturere to cooridinate truss layout with reflected ceiling plans, electrical plans, and mechical plans to avoid conflicts



First Floor Plan 1/4" = 1'-0"

WRAPPED STRUCTURAL COLUMN TO

MATCH MAIN AMENITY BUILDING, TYP.

SEE STRUCT. PLANS FOR COLUMN SIZING

- INDICATES EDGE

OF ROOF ABOVE

ROOF NOTES

8. Overhangs: Truss manufacturer to provide shorter gable end trusses where overhangs exceed 1'-0" to allow for outriggers to be framed over the top cord







HIGHLAND RIDGE AMENITY CENTER MAIL KIOSK	489 Freedom Trail Drive, Angier, NC 27592	
DATE		
REVISION		
Öz	 	

PROJECT #:			
DATE ISSUED:			

DATE ISSUED:	06/18/2025
DRAWING BY:	LBG/AKD
CHECKED BY:	JGM
100%	I.F.P.
-	

KIOSK PLANS



I. GENERAL

1. DESIGN CODES

NORTH CAROLINA BUILDING CODE, 2018 EDITION (AMENDED 2015 INTERNATIONAL BUILDING CODE)

ACI BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318-14)

ASCE 7-10 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES

2. DESIGN LOADS

LIVE LOADS: FLOOR: 100 PSF ROOF: 20 PSF

ULTIMATE DESIGN WIND SPEED: 116 MPH

GROUND SNOW LOAD 15 PSF

SEISMIC DESIGN CATEGORY B SITE CLASS D Ss = 0.173 S1 = 0.083

3. ALL ELEVATIONS ARE REFERENCED FROM FINISHED FLOOR ELEVATION OF 0'-0". SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

II. CONCRETE

1. UNLESS OTHERWISE NOTED, ALL CONCRETE SHALL HAVE THE FOLLOWING STRENGTH AND SLUMP REQUIREMENTS: 3,500 PSI 28-DAY COMPRESSIVE STRENGTH, MAX. 5" SLUMP.

2. ALL CONCRETE SHALL BE MOIST CURED PER ACI 301 OR CURED WITH AN APPROVED CURING COMPOUND. CONTRACTOR SHALL VERIFY THAT THE CURING COMPOUND IS COMPATIBLE WITH FLOOR COVERING ADHESIVES, COATINGS, OR TOPPINGS TO BE USED. CONCRETE SHALL BE CURED FOR A MINIMUM OF 7 DAYS.

3. UNLESS OTHERWISE NOTED, ALL REINFORCING STEEL SHALL BE NEW BILLET STEEL, CONFORMING TO ASTM A-615, GRADE 60, DEFORMED.

4. UNLESS OTHERWISE NOTED, ALL DETAILING, FABRICATION, AND PLACING OF REINFORCING STEEL SHALL CONFORM TO THE MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES. (ACI 315)

5. ALL BAR SPLICES SHALL BE CLASS "B" TENSION SPLICES PER ACI 318-14, UNLESS OTHERWISE SHOWN.

6. CONTRACTOR SHALL REFER TO DRAWINGS OF OTHER TRADES AND VENDOR DRAWINGS FOR EMBEDDED ITEMS AND RECESSES NOT SHOWN ON THE STRUCTURAL DRAWINGS.

7. ALL SPREAD FOOTINGS BEARING ON NATIVE SOIL OR STRUCTURAL FILL ARE DESIGNED FOR AN ALLOWABLE BEARING PRESSURE OF 2,500 PSF. A GEOTECHNICAL REPRESENTATIVE SHALL INSPECT ALL FOOTING EXCAVATIONS TO CONFIRM ALLOWABLE BEARING PRESSURES.

8. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING, PROTECTING, AND RELOCATING AS REQUIRED ALL SERVICE AND UTILITY LINES IN VICINITY OF THE WORK SITE.

9. ALL DOWELS WHICH ARE TO BE DRILLED AND GROUTED INTO EXISTING CONCRETE SHALL BE DONE WITH AN EPOXY GROUT. DRILL HOLE WITH DIAMETER 1/8" LARGER THAN DOWEL OR AS RECOMMENDED BY GROUT SUPPLIER. USE HIT-RE 500 V3 BY HILTI OR APPROVED EQUAL

III. WOOD

1. FRAMING LUMBER SHALL BE #2 SOUTHERN YELLOW PINE (SYP) WITH THE FOLLOWING DESIGN PROPERTIES: Fb = 800 PSI Fv = 175 PSI E = 1.4E6 PSI

2. FRAMING LUMBER EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND, CONCRETE OR MASONRY SHALL BE #2 SOUTHERN YELLOW PINE (SYP) TREATED IN ACCORDANCE WITH AWPA C22 WITH THE FOLLOWING DESIGN PROPERTIES: Fb = 800 PSI Fv = 175 PSI E = 1.4E6 PSI

3. ENGINEERED WOOD BEAMS SHALL BE LAMINATED VENEER LUMBER (LVL) OR PARALLEL STRAND LUMBER (PSL) WITH THE FOLLOWING MINIMUM DESIGN PROPERTIES: Fb = 2600 PSI Fv = 285 PSI E = 1.9E6 PSI

4. ENGINEERED WOOD BEAMS SHALL BE INSTALLED WITH ALL CONNECTIONS PER MANUFACTURER'S INSTRUCTIONS.

IV. WOOD TRUSSES

1. ENGINEERED ROOF TRUSS SYSTEMS SHALL BE PROVIDED FOR REVIEW AND COORDINATED WITH THE ENGINEER OF RECORD. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. ROOF TRUSS DRAWINGS SHALL BE SIGNED AND SEALED BY THE MANUFACTURER AND REVIEWED BY THE ENGINEER OF RECORD PRIOR TO CONSTRUCTION.

2. ALL TRUSSES SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH BCSI 1-03 "GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES."

3. THE TOP CHORD OF ALL ROOF TRUSSES SHALL BE SHEATHED WITH MINIMUM 7/16" WOOD STRUCTURAL SHEATHING (PLYWOOD -or- OSB). PROVIDE PLYWOOD EDGE CLIPS BETWEEN PANELS.

4. PROVIDE PERMANENT BOTTOM CHORD TRUSS BRACING AND WEB MEMBER PLANE BRACING IN ACCORDANCE WITH BCSI-B2 "TRUSS INSTALLATION AND TEMPORARY BRACING" AND BCSI-B3 "WEB MEMBER PERMANENT BRACING/WEB **REINFORCEMENT."**











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A2.0