Applicable Codes, Standards, and/or References

International Fire Code (IFC) with SC Modifications International Mechanical Code (IMC) with SC Modifications

ADMINISTRATION

PRIMARY OCCUPANCY CLASSIFICATION SECONDARY OCCUPANCY CLASSIFICATION CONSTRUCTION TYPE FULLY SPRINKLED NON-SEPARATED MIXED USE

TOTAL ALLOWABLE STORIES

II-B

BUILDING AREA PER STORY(ACTUAL SE

ALLOWABLE AREA PER STORY(SF)

40,000 MAXIMUM BUILDING AREA 40,000 SF

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MARION COUNTY LEC 591492 MARION COUNTY 2715 EAST HWY 76, MULLINS, SC 29574

CODE SUMMARY -

 BUILDING 2

SECTION 408, GROUP I-3 REQUIREMENTS			
408.2 OTHER OCCUPANCIES	408.3.7 SALLYPORTS	408.5.1 FLOOR OPENINGS	408.8 SUBDIVISION OF RESIDENT HOUSING AREAS
NO MEANS OF EGRESS TRAVERSE OTHER USE AREAS.	SALLYPORTS SHOWN IN LIFE-SAFETY PLANS CONFORM TO CONTINUOUS AND UNOBSTRUCTED	NO OPENINGS IN FLOORS IN HOUSING UNITS.	REFER TO LIFE-SAFETY PLANS IDENTIFYING SUBDIVISION LAYOUT.
408.3 MEANS OF EGRESS	PASSAGE	408.5.2 SHAFT OPENINGS IN COMMUNICATING FLOOR LEVELS	408.8.1 OCCUPANCY CONDITIONS 3 AND 4
ALL MEANS OF EGRESS COMPLY WITH CHAPTER 10 REQUIREMENTS		NO ADDITIONAL SHAFT OPENINGS, PLUMBING CHASE CONFORMS TO SECTION.	SMOKE TIGHT PARTITION SHOWN IN HOUSING POD 'F'.
408.3.1 DOOR WIDTH	408.3.8 INTERIOR EXIT STAIRWAY AND RAMP CONSTRUCTION	408.6 SMOKE BARRIERS	408.8.3 OPENINGS IN ROOM FACE
ALL DOORS TO RESIDENT SLEEPING UNITS HAVE CLEAR WIDTH NOT LESS THAN 28 INCHES.	NO INTERIOR STAIRWAYS OR RAMPS CONTAIN GLAZING IN DOORS OR INTERIOR WALLS.	REFER TO LIFE-SAFETY PLANS FOR SMOKE BARRIER LOCATIONS.	ALL OPENINGS CONFORM TO REQUIREMENTS OF SECTION.
408.3.2 SLIDING DOORS	408.4 LOCKS	408.6.1 SMOKE COMPARTMENTS	408.8.4 SMOKE-TIGHT DOORS
NO SLIDING DOORS IN BUILDING 2.	ALL EGRESS DOORS CONFORM TO LOCKING ARRANGEMENTS.	REFER TO LIFE-SAFETY PLANS FOR TRAVEL DISTANCES.	DOORS CONFORM TO SMOKE-TIGHT REQUIREMENTS.
408.3.3 GUARD TOWER DOORS	408.4.1 REMOTE RELEASE	408.6.2 REFUGE AREA	408.9 WINDOWLESS BUILDINGS
NO GUARD TOWERS OR DOORS SHOWN.	REFER TO SECURITY DRAWINGS FOR REMOTE RELEASE LOCKS.	ALL SMOKE COMPARTMENTS COMPLY WITH REFUGE AREA REQUIREMENTS.	WINDOWS/GLAZING SHOWN ARE NON-OPERABLE. AN ENGINEERED SMOKE CONTROL SYSTEM IS
408.3.4 SPIRAL STAIRWAYS	408.4.2 POWER-OPERATED DOORS AND LOCKS	408.6.3 INDEPENDENT EGRESS	PROVIDED, REFER TO MECHANICAL DRAWINGS.
NO SPIRAL STAIRWAYS SHOWN.	EMERGENCY POWER PROVIDE FOR ALL POWER OPERATED DOORS AND LOCKS.	ALL SMOKE COMPARTMENTS HAVE INDEPENDENT EGRESS.	408.10 FIRE ALARM SYSTEMS
408.3.5 SHIPS LADDERS	408.4.3 REDUNDANT OPERATION	408.7 SECURITY GLAZING	FIRE ALARM SYSTEM PROVIDED
NO SHIPS LADDERS WILL BE USED FOR CONTROL ROOMS OR ELEVATED FACILITY OBSERVATION.	DOORS ARE PROVIDED WITH MECHANICALLY OPERATED RELEASE MECHANISMS.	WINDOWS AND DOORS SHOWN IN DRAWINGS WITH FIRE BARRIERS, FIRE PARTITIONS AND SMOKE BARRIERS CONFORM TO SECTION REQUIREMENTS	408.11 AUTOMATIC SPRINKLER SYSTEM
408.3.6 EXIT DISCHARGE	408.4.4 RELOCK CAPACITY	I. INDIVIDUAL PANELS DO NOT EXCEED 1,296 SQUARE INCHES.	ADDITION IS EQUIPPED THROUGHOUT WITH AUTOMATIC SPRINKLER SYSTEM.
REFER TO ARCHITECTURAL SITE PLAN (SHEET A1.1), INMATE REFUGE AREAS SHOWN CONFORM TO	DOORS CONFORM TO REMOTE UNLOCKING REQUIREMENTS.		
50-FOOT DISTANCE FROM BUILDING AND 15-SF REQUIREMENT PER PERSON.	408.5 PROTECTION OF VERTICAL OPENINGS	2. GLAZING IS PROTECTED ON BOTH SIDE BY AUTOMATIC SPRINKLER SYSTEM.	
	NO SHAFT PENETRATIONS OR SHAFT ENCLOSURES INDICATED.	3. GLAZING WILL BE INSTALLED IN GASKETED FRAME.	
		4. NO OBSTRUCTIONS OR WINDOW TREATMENTS WILL BE USED.	

SPECIAL USE REQUIREMENTS

The regular file resistance of a building element shall be permitted to be established by the following: Fire resistance designs documented in approved sources			707.5.1	Fire Barriers - Supporting Construction			716.1.2.1	Safety Glazing	
			1	Supporting construction for fire barrier walls shall be protected	and fire-resistive rated as the fire bar	rier.		Fixe-protection-rated glazing installed in fire doors or fire window assemblies shall comply with Chapter 24.	
			1						
	Prescriptive designs as prescribed in Section 721			707.6	Fire Barriers - Openings			716.1.2.3	Fire-Resistance-Rated Glazing
)5.3	Buildings on the Same Lot Each opening shall be protected per Section 7 (6; Irmited to maximum aggregate width of 25% of length of walt; and max any single opening shall be 156 SF.			ngth of wall; and maximum area of	Fire-resistance-rated glading tested as part of a fire-resistance-rated wall or floor/ceiling assembly in accordance with AS E119 or UL 263 and labeled in accordinance with Section 703.6 shall not otherwise be required to comply with Section 7				
	Exception 1 - applies as both the existing building and the new building are regulated as separate buildings.		1	Exception 1: Openings shall not be limited to 156 SF where adjoining floor areas are fully sprinklered.					
				1	717 Penetrations - Nonfire-Resistance-Rated Assemblies		717.4	Access and identification [dampers]	
				714.6					
able 705.8	Maximum area of exterior wall openings			1	Penetrations shall comply with Section 713 or shall comply with				Provide access to all fire, smoke, and combination dampers large enough to permit inspection and maintenance of the damper and its operable parts.
	Fire Separation Distance	Protection	Allowable Area		Penerations shall comply with section 713 or shall comply with	n 714.0.1 OF 714.0.2.			Access shall not affect or reduce the rated integrity
	·	Unprotected, Nonsprinklered	No Limit	715.1	Fire-Resistant Joint Systems				Identify all access points with a label complying with Section 717.4
	30 feet or greater	Unprotected, Sprinklered	No Limit	1	·		48 12 4114		****
		Protected No Limit Joints in fire-resistance-rated walls, assemblies, node, floors, and collings shall be protected by an approved fire-resistant joint system.		717.6	Horizontal Assemblies [dampers]				
				Table 716.1					Penetrations by ducts and air transfer openings shall be protected by a shalf enclosure or shall with Sections 717.6.1 through
06.4	Fire Walls			Table 718.1 Opening Protectives			Access shall not affect or reduce the rated intentity		
	2-Hour fire-resistance rating permitted for Group I that is Type II construction.				Fire Door and Fire Shutter Fire Protection Ratings	Assembly Rating	Fire Door/Shutter Rating		Identify all access points with a label complying with Section 717.4
06.5	Fire Walls - Horizontal Continuity			1	Fire Walls and Fire Barriers: Resistance greater than 1 hour	2 hours	1- 1/2 hours	717.6.3	Nonfire-resistance-rated floor assemble ampers
	Fire Walls - Horizontal Continuity	Fire Walls - Horizontal Continuity			Fire Barriers: Shaft, exit enclosure, exit passageway	1 hours	1 hours	111.0.3	
	Exception 3 - permitts the fire wall to terminate at the interior surfa fire wall is protected by an automatic sprinkler system.	ace of noncombustible exterior wall when	e the building on each side of the		Fire Barriers: Other	1 hours	3/4 hours		Penetrations by ducts and air transfer openings shall be proceed accordance with Section 71720
	me wante protected by all automatic applicate dystem.			4	Fire Partitions: Corridor walls	1 hours	1/3 hours		
		1		4	Fire Partitions: Other	1 hours	3/4 hours		
06.5.1	Fire Walls - Exterior Walls	Exterior Walls Rating			Smoke Barriers	1 hours	1/3 hours		
	Fire wall intersects exterior wall and forms an 1-hour for minimum 4-feet each side of fire wall, with		e of fire wall, with	1			•		
	angle less than 180 degrees	opening protectives			Fire Window assembly fire protection ratings	Assembly Rating	Fire Window Rating	Pla	
06.6	Fire Walls - Vertical Continuity				Interior Fire Walls	All	Not permitted	_	
	Fire walls extend a minimum of 30 inches above adjacent roofs		1	Interior Fire Barriers	Greater than 1-hour	Not permitted	Mm.		
				1	Interior Fire Barriers	1 hours	Not permitted		
06.8	Fire Walls - Openings			1	Interior Smoke Barriers	1 hours	3/4 hours		7 //
	Each opening shall be protected per Section 716.5 and shall not	evoned 156 et		1	Interior Fire Partitions	1 hours	3/4 hours	, 'N '''	
	Exception 2: Openings may exceed 156 SF where both buildings			1	Interior Fire Partitions	1/2 hours	1/3 hours	M.N.	
	Aggregate width of all openings at any floor level shall not excee			1		all a	ummu,		

FIRE-RESISTANCE-RATED CONSTRUCTION

903.1	General (automatic sprinkler systems)						
	Automatic NFFA 13 wet-pipe sprinklor system shall be provided throughout entire building, except at recreation yards (preaction)						
Table	Portable Fire Extinguisher distribution						
[F]906.3(1)	Maximum floor area coverage shall not exceed 11,250 SF						
	Maximum travel distance shall not exceed 75 feet						
	Shall not be obstructed or obscured from view						
	Shall be provided where flammable or combustible liquids are stored, used or dispersed.						
906.8	Portable Fire Extinguisher Cabinets						
	Exception 2: Fire Extinguishers shall be locked and located in staff positions in I-3.						
907.2	Where required [fire alarm and detection system]						
	Manual and automatic fire alarm system shall be provided.						
907.2.6.3	Fire Alarm - Group I-3						
	Group I-3 occupancies shall be equipped with a manual fire alarm system and automatic smoke alarm system						
907.2.6.3.1	Fire Alarm - Group I-3 - System Illing						
	Actuation shall initiate an approve the alarm signal who dispess state.						
907.2.6.3.2	Fire Alarm - Group I-3 - Signal Fire Alarm Expres in Detainee areas						
	Not required to be located in detain where the fire a me boxes are provided at staff-attended locations having direct supervision over the areas where the continued.						
907.2.6.3.3	Automatic Smoke Detection System - Group I-3						
	Exception 3: Not required in sprinklered sleeping units with less than 4 occupants.						
909.0	Smoke Control System						
	Smoke control system shall be based on the 'exhaust' method.						
909.16	Fire-fighter's smoke control panel						
	Shall be provided at existing Master Control Room						

ENERGY SUMMARY		
ENERGY REQUIREMENTS THE FOLLOWING DATA SHALL BE CONSIDER OLIVINIOUS AND ANY SPECIAL ATTREMOSE CORRED TO MEET THE ENERGY CODE SHALL SO BE CONSIDERED TO THE SHALL FURNISH THE REQUIRED PORTIONS OF THE SHALL	ROOFICEILING ASSEMBLY: DESCRIPTION OF ASSEMBLY: U-VALUE OF TOTAL ASSEMBLY: R-VALUE OF INSULATION: R-VALUE OF INSULATION: R-VALUE OF MOSULATION: R-VALUE OF MOSULATION:	FLOORS OVER UNCONDITIONED SPACE: DESCRIPTION OF ASSEMSLY: NA U-VALUE OF TOTAL ASSEMBLY: NA R-VALUE OF INSULATION: NA
EXISTING OILEM ENVELOW COMPLIES OF CODE: NO DEPLOY BUILLING: NO VES CLIFFE ZON	EXTERIOR WALLS: WA ASSEMBLIES # BRUCK/BLOCK ON SPF DESCRIPTION OF ASSEMBLY; BSDALATION ON 12" CMJ UNALUE OF TOTAL ASSEMBLY;105 R-VALUE OF INSULATION: R-7.6 REQUIRED	FLOORS SLAB ON GRADE: DESCRIPTION OF ASSEMBLY: U-VALUE OF TOTAL ASSEMBLY: 83 R-VALUE OF INSULATION: NA MAT DEQUIDED
METRIC CONFILINCE: BISER® CODE PERFORMANCE PRESCRIPTIVE (IF OTHER SPECIFY SOURCE HERE) ASHRAE SOL PERFORMANCE PRESCRIPTIVE THERMAL ENVELOPE:	OPENINGS (WINDOWS OR DOORS WITH GLAZING: LIVALUE OF ASSEMBLY: 3 SOLAR HEAT GAIN COEFFICIENT: 3 PROJECTION FACTOR: 9 DOOR RIVALUES: R5	HORIZONTAL/VERTICAL REQUIREMENT: NOT REQUIRED SLAB HEATED: NO
ROOFICELING ASSEMBLY: DESCRIPTION OF ASSEMBLY: UVALUE OF TOTAL ASSEMBLY: R-VALUE OF INSULATION: BY ALLE OF INSULATION: BY AL	WALLS BELOW GRADE: DESCRIPTION OF ASSEMBLY: NA U-VALUE OF TOTAL ASSEMBLY: NA R-VALUE OF INSULATION: NIA	

ENERGY SUMMARY

EXIT ENCLOSURES (4 or more stories)

SHAFT ENCLOSURES (4 or more storie

INTERIOR NONBEARING WALLS AND PARTITION ROOF CONSTRUCTION & SECONDARY MEMBERS

BUILDING DATA

CONSTRUCTION TYPE

EXTERIOR BEARING WALLS INTERIOR BEARING WALLS

FIRE BARRIERS

SMOKE BARRIERS

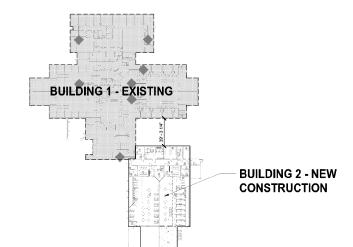
CORRIDORS

PRIMARY STRUCTURAL FRAME

FIRE RESISTANCE RATING OF BUILDING ELEMENTS

SMOKE COMPARTMENT	OCCUPANT COUNT
1	125
2	68
3	45
4	32

SMOKE COMPARTMENT OCCUPANT COUNT



KEY PLAN - BUILDING 2

FIRE PROTECTION SYSTEMS

LS1.1