

# CONSTRUCT SPINAL CORD ENHANCEMENT CENTER (ADDITION)

H.H. MCGUIRE VA MEDICAL CENTER  
1201 BROAD ROCK BOULEVARD  
RICHMOND, VA 23249

## PROJECT DIRECTORY

### OWNER:

H.H. MCGUIRE VA MEDICAL CENTER  
1201 BROAD ROCK BOULEVARD  
RICHMOND, VA 23249

### ARCHITECT / ENGINEER:

AE WORKS, LTD  
6587 HAMILTON AVENUE  
PITTSBURGH, PA 15206  
(412) 287-7333

### CIVIL ENGINEER / LANDSCAPE ARCH.:

SITE RESOURCES, INC  
14315 JARRETTSVILLE PIKE  
PHOENIX, MD 21131  
(410) 683-3388

### STRUCTURAL ENGINEER:

HOPE FURRER ASSOCIATES  
501 FAIRMOUNT AVENUE  
TOWSON, MD 21286  
(410) 583-4874

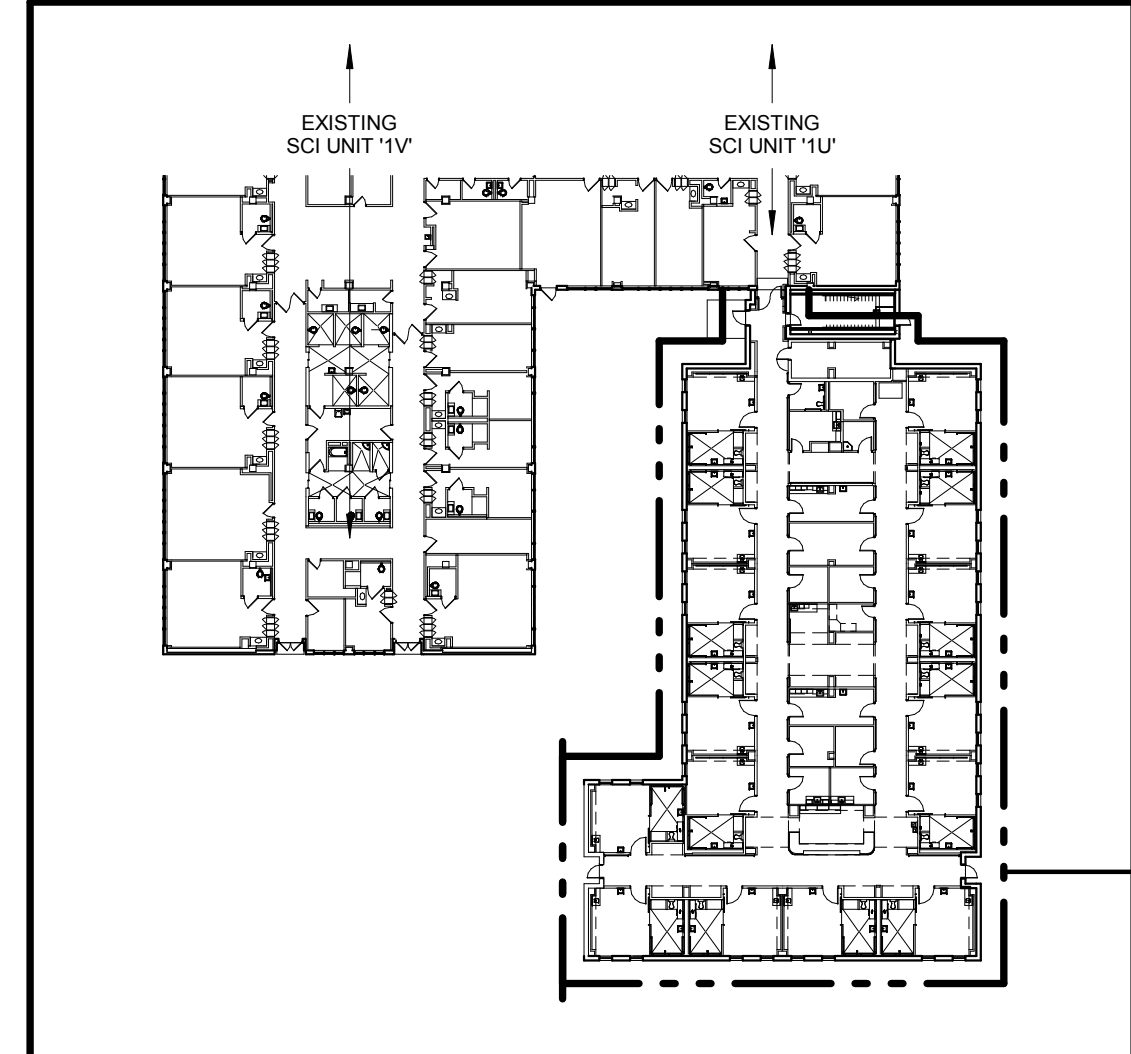
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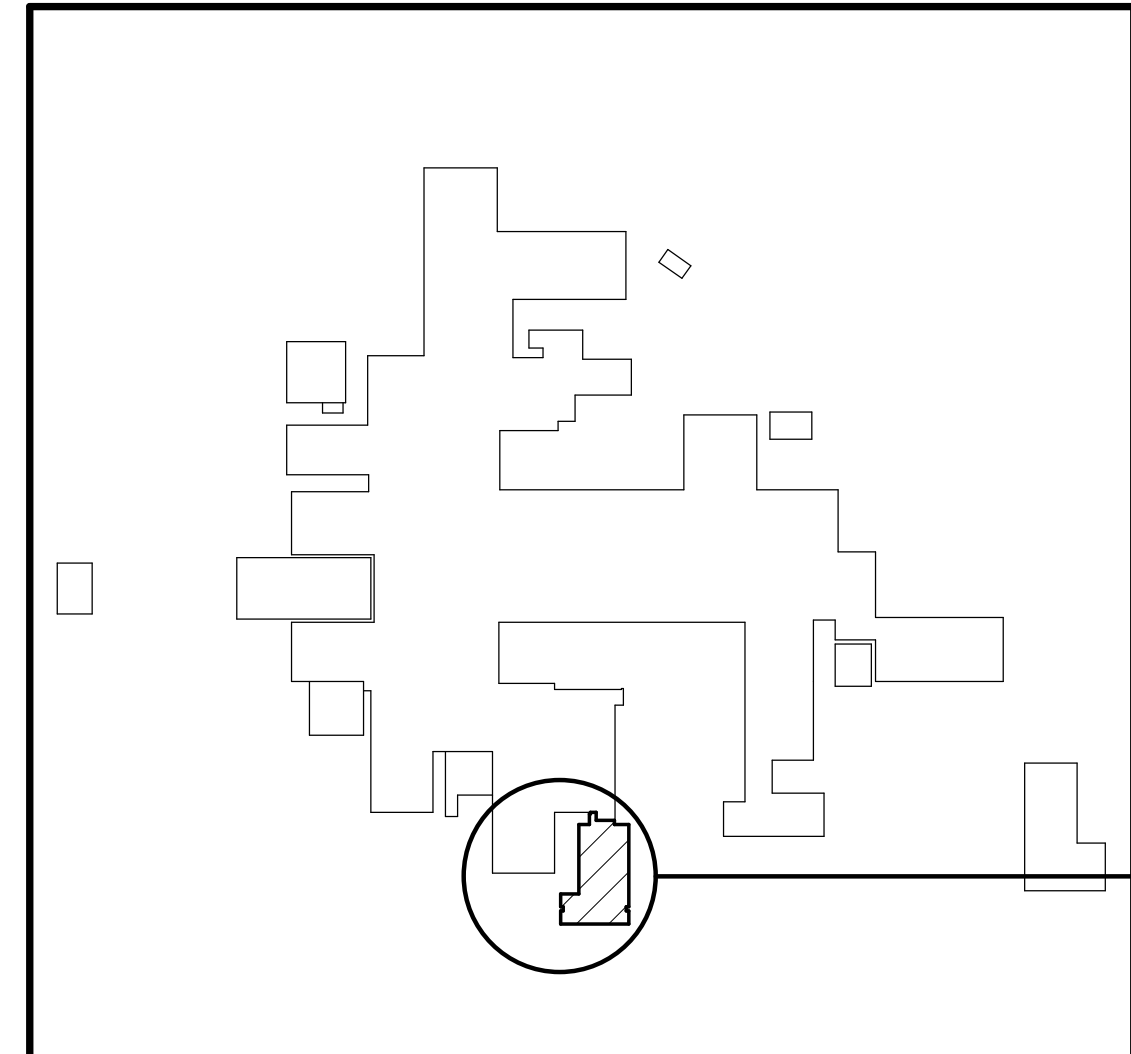
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## PROJECT LOCATION



BUILDING  
ADDITION

## VA CAMPUS MAP



PROJECT

## VICINITY MAP



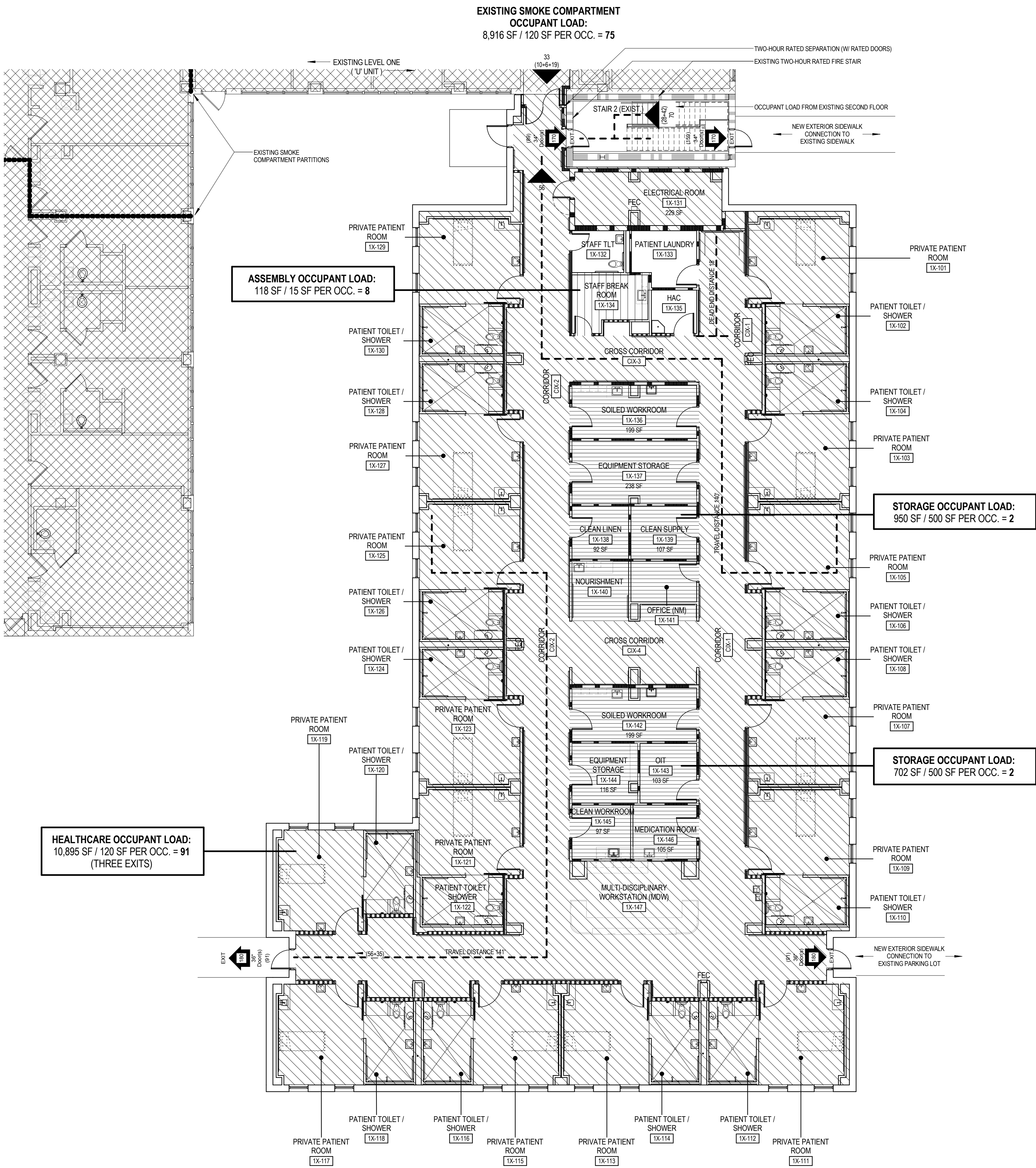
VA CAMPUS

FULLY SPRINKLERED  
BID DOCUMENTS

<b>CONSULTANTS:</b>		<b>SEAL</b>		<b>ARCHITECTS/ENGINEERS:</b>		Approved: Director		Drawing Title COVER SHEET		Project Title H.H. MCGUIRE VAMC - CONSTRUCT SPINAL CORD ENHANCEMENT CENTER		Project Number 652 - 314		<b>Office of Construction and Facilities Management</b> 		
CIVIL ENGINEER / LANDSCAPE ARCHITECT: SITE RESOURCES INCORPORATED 14315 JARRETTSVILLE PIKE, PHOENIX, MD 21131 (410) 683-3388		STRUCTURAL ENGINEER: HOPE FURRER ASSOCIATES, INC. 501 FAIRMOUNT AVENUE, TOWSON, MD 21286 (410) 583-4874		AE WORKS AE Works Project Number: 13030		Approved: Chief Operating Officer		Approved: Site Manager		Location 1201 Broad Rock Boulevard, Richmond, VA 23249		Building Number 500				
Revisions:		Date				Approved: Vice President, Facilities Management		Approved: Project Manager		Date 09/11/2017		Checked DG		Drawn JDB		
						Approved: Manager, Projects Section						Drawing Number G001				



three inches = one foot  
one and one half inch = one foot  
one inch = one foot  
one quarter inch = one foot  
one eighth inch = one foot  
one sixteenth inch = one foot

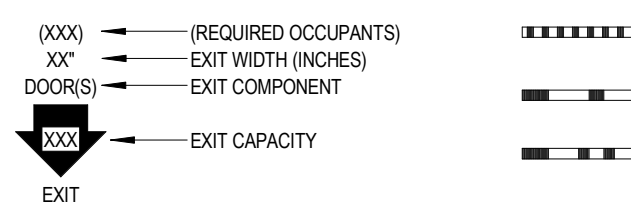


LIFE SAFETY REVIEW

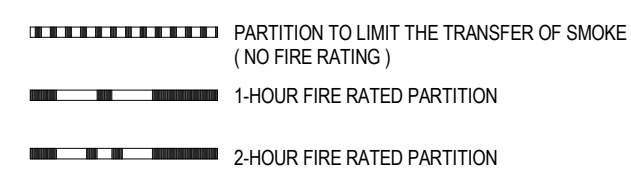
LIFE SAFETY REVIEW BASED ON NFPA 101 - LIFE SAFETY CODE 2015 EDITION

DESCRIPTION	NFPA SECTION	RESULT
OCCUPANCY		
NEW HEALTHCARE (ADDITION)	CHAPTER 18	
CONSTRUCTION TYPE		
EXISTING HOSPITAL (CONCRETE STRUCTURAL FRAME)	TABLE A.8.2.1.2	TYPE I (222)
NEW ADDITION (STRUCTURAL STEEL)	TABLE A.8.2.1.2	TYPE I (222)
FIRE RESISTIVE REQUIREMENTS		
STRUCTURAL FRAME (COLUMNS, BEAMS, AND LATERAL BRACING) (EXCLUDES LEVEL ONE INTERSTITIAL BEAMS AND HANGERS)	TABLE A.8.2.1.2	2 HOURS
BEARING WALLS		
EXTERIOR	N/A	
INTERIOR	N/A	
FLOOR CONSTRUCTION		
INCLUDING SUPPORTING BEAMS	N/A	(PROPOSED ROOF DESIGNED AS FLOOR FOR FUTURE VERTICAL EXPANSION)
ROOF CONSTRUCTION		
INCLUDING SUPPORTING BEAMS	TABLE A.8.2.1.2	2 HOUR (PROVIDED FOR FUTURE VERTICAL EXPANSION) (1 HR REQUIRED FOR ROOF PER TABLE A.8.2.1.2)
INTERIOR FINISHES		
EXIT AND ACCESS CORRIDORS		CLASS A & B
WALL AND CEILING		CLASS A
WALL AND CEILING IN SPACES WITH LESS THAN 4 OCCUPANTS		CLASS B
CORRIDORS	18.3.6.2	SMOKE PARTITION PARTITION TO LIMIT THE TRANSFER OF SMOKE (NO FIRE RATING REQUIRED)
CORRIDOR DOORS (IN SMOKE PARTITIONS)		NO RATING REQUIRED W/ POSITIVE LATCHING DOOR CLOSERS NOT REQUIRED
CLEAN LINEN ROOM	18.3.2.1	1 HOUR (ALSO APPLIES TO CLEAN WORKROOM)
SOILED LINEN COLLECTION ROOM	18.3.2.1	1 HOUR (ALSO APPLIES TO SOILED WORKROOM)
SMOKE COMPARTMENT SIZES		N/A (22,500 SF MAX. PROPOSED ADDITION - 20,000 SF)
EXITING REQUIREMENTS		
OCCUPANT LOAD - INSTITUTIONAL/HEALTHCARE	TABLE 7.3.1.2	120 GROSS SFFPERSON
SLEEPING AREAS		
SLEEPING AREA DOOR WIDTH	18.2.3.6	41 1/2" MIN.
EGRESS WIDTH		
TYPICAL	7.3.3.1	OCCUPANT LOAD x 0.2" PER OCCUPANT
CORRIDOR WIDTH	18.2.3.4	MINIMUM 96"
MAXIMUM EXIT TRAVEL DISTANCE	18.2.6.2	200 FEET
COMMON PATH OF EGRESS TRAVEL	18.2.5.3	100 FEET
DEAD END CORRIDOR	18.2.5.2	30 FEET

EGRESS SYMBOLS LEGEND



FIRE RATED PARTITION LEGEND



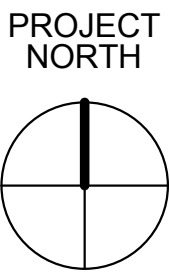
OCCUPANT LOAD CALCULATION TABLE

USE (GROSS SF)	AREA PER USE	OCCUPANT LOAD FACTOR	OCCUPANT LOAD
HEALTHCARE	10,895 SQUARE FEET	120 SF / OCCUPANT	91 OCCUPANTS
STORAGE	703 SQUARE FEET	500 SF / OCCUPANT	2 OCCUPANTS
ASSEMBLY	118 SQUARE FEET	15 SF / OCCUPANT	8 OCCUPANTS
TOTAL			103 OCCUPANTS

ICRA FORM

Construction Project Risk Assessment				
1 - General Information		Project: 17-19 Spinal Cord Enhancement Center	Date: 4/6/17	
Project Location: Connects to Unit 1U		Phone Number: 804-675-6252	ICRA No: 17-19	
Contact Person: William Mustian - Infection Control		Duration: 1 year		
Start Date: 10/01/17		Work Activities: New Construction connect to existing Spinal Cord Center		
2 - Infection Control Risk Assessment (ICRA)				
PATIENT RISK GROUP	CONSTRUCTION ACTIVITY TYPE			
	Type A: Inspection and Non-Invasive Activity	Type B: Small scale, short duration activities creating minimal dust or requires demolition or removal	Type C: Activity generates moderate to high levels of dust or requires demolition or removal	Type D: Major demolition or construction activities requiring consecutive work shifts
LOW	I	II	III	III/IV
MEDIUM	I	II	III/IV	III/IV
HIGH	I	II	III/IV	III/IV
SENSITIVE	II	III/IV	III/IV	III/IV
INTERIM INFECTION CONTROL MEASURES (check all that apply)				
CLASS I	<input type="checkbox"/> Execute work by methods to minimize raising dust from construction operations. <input type="checkbox"/> Wet mop and/or vacuum before leaving area.			
CLASS II	<input type="checkbox"/> Immediately replace ceiling tile displaced for visual inspection. <input type="checkbox"/> Contain construction waste in tightly covered container before transporting.			
CLASS III	<input type="checkbox"/> Provide active means to prevent airborne dust from dispersing into atmosphere. <input type="checkbox"/> Seal unused doors with tape. <input type="checkbox"/> Block off and seal air vents. <input type="checkbox"/> Place dust mat at entrance and exit of work area. <input type="checkbox"/> Isolate HVAC system in areas where work is being performed. <input type="checkbox"/> Water mist work surfaces to control dust while curing. <input type="checkbox"/> Isolate HVAC system in area work is being performed to prevent contamination of duct system. <input type="checkbox"/> Complete all critical barriers (sheetrock, plywood, plastic) to seal area from non-work area or implement control cube method (cut with plastic covering and sealed connection to work site with HEPA vacuum for vacuuming prior to exit) before construction begins. <input type="checkbox"/> Seal holes, pipes, conduits and punctures appropriately. Place dust mat at entrance and exit of work area. <input type="checkbox"/> Maintain negative air pressure within work site utilizing HEPA equipped air filtration units. <input type="checkbox"/> Contain construction waste and transport in tightly covered & sealed containers before transporting. <input type="checkbox"/> Isolate HVAC system in area where work is being done to prevent contamination of duct system. Seal unused doors with tape. <input type="checkbox"/> Complete all critical barriers (sheetrock, plywood, plastic) to seal area from non-work area or implement control cube method (cut with plastic covering and sealed connection to work site with HEPA vacuum for vacuuming prior to exit) before construction begins. <input type="checkbox"/> Seal holes, pipes, conduits and punctures appropriately. <input type="checkbox"/> Contract site room & require all personnel to pass through so they can be vacuumed using a VOP's vacuum cleaner before leaving work area or they can wear cloth or paper coveralls that are removed each time they leave the work area. <input type="checkbox"/> Personnel entering work area are required to wear shoe covers. Shoe covers must be changed each time workers exit work area. <input type="checkbox"/> Contain construction waste and transport in tightly covered & sealed containers before transporting. <input type="checkbox"/> Maintain negative air pressure within work site utilizing HEPA equipped air filtration units.			
CLASS IV	<input type="checkbox"/> Wet mop area with disinfectant. <input type="checkbox"/> Remove isolation of HVAC system. <input type="checkbox"/> Do not remove barriers until area is inspected by CRA Group and thoroughly cleaned by Environmental Services Department.			
3 - Risk of Tuberculosis Transmission to Construction Workers Assessment				
Construction Location Features		No	Yes	Actions Needed
1. Will the project breach, alter, or compromise the integrity of any ventilation of negative pressure rooms?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Will the project be completed in any acute care areas with potential exposure to tuberculosis patients (ER, ICU, 4B, 4C, and 2F)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
The Project is HIGH RISK for potential transmission of Tuberculosis to construction workers		<input type="checkbox"/>	<input type="checkbox"/>	None
Inspection Schedule: per Construction/Safety Committee				
Completed by: William Mustian - Infection Control		Date:		April 6, 2017

1 LIFE SAFETY PLAN - SCI ADDITION: LEVEL ONE  
3/32" = 1'-0"



FULLY SPRINKLERED  
BID DOCUMENTS

CONSULTANTS:		SEAL		ARCHITECTS/ENGINEERS:		Drawing Title CODE REVIEW		Project Title: H.H. MCGUIRE VAMC - CONSTRUCT SPINAL CORD ENHANCEMENT CENTER		Project Number 652 - 314	
						Approved: Project Director		Location: 1201 Broad Rock Boulevard, Richmond, VA 23249		Building Number 500	
Revisions:				AE WORKS				Date: 09/11/2017		Drawing Number G002	
Date				6587 Hamilton Avenue Pittsburgh, Pennsylvania 15206 Ph: 412.287.7333 Fax: 412.287.7334 www.ae-works.com AE Works Project Number: 13030				Checked: DG		Drawn: JDB	

Office of  
Construction  
and Facilities  
Management  
Department of  
Veterans Affairs