

VA Northern Indiana Healthcare System Construction/Renovation Risk Assessment Package

Instructions: Project Managers or VA Supervisors will collaborate with Infection Control, Safety Office, and VA Police to complete the risk assessment package as part of managing the safe design and construction/renovation of the medical center environment. COTRs shall collaborate with Infection Control, the Safety Office, and the VA Police as necessary in the completion of these assessments. COTRs, Infection Control Coordinator, Safety Office staff, and VA Police will ensure all identified actions and control measures are implemented in their respective area of responsibility as long as the potential hazard exists. The initial assessment should be completed in the design phase. Reassess as conditions change and prior to the beginning of each project phase. The assessments are conducted by the responsible program official using the attached risk assessment forms, and should be completed as follows:

1. NEPA Assessment:

- a. Using NEPA Interim Guidance for Projects PG 18-17 determine the level of Environmental Impact of the project.

2. Vertical Environmental Impact Assessment:

- a. Show the construction area and the functions/services located in adjacent areas, including floors above and below.

3. Horizontal Environmental Impact Assessment:

- a. Using a current drawing of the area, show the construction area and surrounding patient/staff areas as indicated on the example provided.

4. Interim Life Safety Measures:

- a. Evaluate each listed "Requirement or Deficiency" as related to the project's impact on Life Safety components of the facility.
- b. Provide a summary of required actions on the sheet provided.

5. Hazard Assessment and Exposure Controls:

- a. Evaluate the potential for hazards during construction that may impact patients and staff. Indicate the required control measure for each hazard.
- b. Provide a summary of the required control measures on the sheet provided.

6. Ceiling Mounted Patient Lift

- a. During 50% and 100% Design Reviews, the COTR will verify that the patient lift design is in compliance with the requirements of VHA Directive 2005-019 Seismic Safety of VHA Buildings and VA Master Design Specification 3.05.041 Seismic Restraint Requirements for Non-Structural Components. The COTR will also ensure the requirements on the "Design Checklist for Ceiling Mounted Patient Lifts" are met.
- b. Complete the "After Installation Checklist for Ceiling Mounted Patient Lifts" prior to permitting the equipment to be used for patient movement.

7. Infection Control Risk Assessment:

- a. Determine and record the Location Group(s) that will be affected.
- b. Determine and record the type of construction and magnitude of disruption.
- c. Review the Infection Control Matrix using the Location and Type of Construction Groups (determined in steps a. and b.) and record the Class of Precautions associated with the project.

d. Complete the Infection Control Measures List and assign responsibility for each measure.

8. Approvals:

a. Upon completion of the risk assessment obtain approval signatures as applicable on the attached sheet. Ensure all signatures are complete prior to submitting to the Safety representative.

9. Contract Documents:

a. Include applicable risk assessment action items in the contract documents.

b. Provide the contractor's superintendant with copies of the completed risk assessment and action plans.

c. File all risk assessment documents in the project file.

10. Daily Inspections:

a. Ensure the contractor conducts and documents daily construction site inspections.

11. Construction Site Inspection:

a. Each discipline (Infection Control, Safety Office, VA Police) shall inspect the construction site as applicable. All inspections will be documented.

12. Post Project Review:

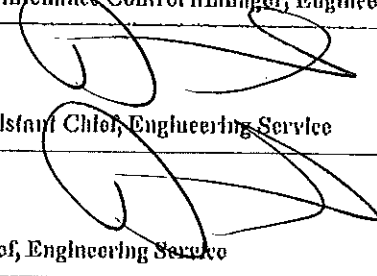
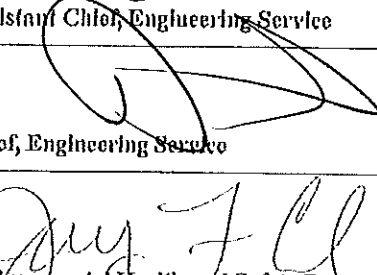
a. Upon completion of the project conduct a review of risk assessment process.

b. Present the results to the Construction Safety Committee.

CONSTRUCTION RISK ASSESSMENTS AND HAZARD CONTROL APPROVALS

Project Title: Renovate Patient Areas 4 th Floor, Building I	Project Number: 610A4-08-104
Estimated Start Date: Fall 2016 (estimating OCT)	Estimated Duration: Estimating 420 days

Obtain the following approvals, in the order listed, as applicable:

1. VA Supervisor responsible for area under construction	NA	Date	
2. Infection Control Coordinator	Sandy Bury	Date	2/26/16
3. VA Police Representative	Robert Hayden	Date	2-29-2016
4. Project Manager/COR/Shop Supervisor	William R. Lee (currently - to change for construction)	Date	2-29-16
5. Maintenance Control Manager, Engineering Service	Donald W. Weger	Date	2-29-16
6. Assistant Chief, Engineering Service		Date	20160324
7. Chief, Engineering Service		Date	20160324
8. Environmental Health and Safety Representative	Jay F. Lee	Date	3-4-16

**VANIHCS
Construction/Renovation Risk Assessment Package**

Project Title: Renovate Patient Areas 4 th Floor, Building 1				Project Number: 610A4-08-104	
Location: 4 th Floor, Building 1, 2121 Lake Ave Fort Wayne, IN 46805					
Date: 2-17-16	Project Phase: 95% Design Phase I (25-50%) Final Pre-Con Other				
Construction Start Date: Estimated Fall 2016 (OCT)		Estimated Duration: 420 Days-estimated		Completion Date: Estimated Spring 2018	
<p style="text-align: center;"><u>Scope of Work:</u></p> <p>Furnish all labor, materials, equipment, tools, supervision, staging and all other necessary resources to renovate bldg. 1 4th Floor as required by the dwgs and specs.</p>					
<p>Note: The risk assessment process should begin in the design phase. Identified risk controls shall be incorporated into the technical plans and specifications as applicable. The risk assessment should be reviewed during all major phases of the project and risk controls updated as necessary.</p>					
<p>Prior to commencing work, the general contractor shall provide proof that an OSHA certified competent person (CP) [29 CFR 1926.20(b)(2)] will maintain a presence at the worksite. An OSHA 30-hour training completion card is considered certification. Any other certification provided will be evaluated by the Project Manager and Safety Office in accordance with VA Directive 2011-036 to determine relevancy.</p> <p>Signature: _____</p>					

NEPA Risk Assessment to be completed utilizing NEPA Interim Guidance for Projects PG 18-17

<http://www.cfm.va.gov/til/etc/NEPAGuidance.pdf>

Project Title: Renovate Patient Areas 4 th Floor, Building 1				Project Number: 610A4-08-104			
Location: 4 th Floor, Building 1, 2121 Lake Ave Fort Wayne, IN 46805							
Date: 2-17-16		Type of Project: New Construction		Operation and Maintenance Lease Other		Repairs/Renovation	
Construction Start Date: Estimated Fall 2016 (OCT)		Estimated Duration: Estimated 420 Days				Completion Date: Estimated Spring 2018	
<u>Project Description:</u>							
Furnish all labor, materials, equipment, tools, supervision, staging and all other necessary resources to renovate bldg. 1 4 th Floor as required by the dwgs and specs.							
Level of NEPA Analysis: Categorical Exclusion X Environmental Assessment (EA) Needed Environmental Impact Statement (EIS) Needed				Other Environmental Permits/Analysis Needed: All work is interior renovation, therefore Abatement will be required. That permit is responsibility of contractor per contract requirements.			
Project Impacts- For below, see contract document requirements (esp N/A marked)							
Would the proposed activity involve or generate any of the following?							
Source			Source			Source	
Air Emissions including GHGs-----N/A			Liquid Effluent-N/A			RCRA or CERCLA Sites-N/A	
Asbestos ----Y			Petroleum Storage--N			Wetlands -N	
Excess Noise ----Y			Solid Waste --Y			Permit Modification -N/A <input type="checkbox"/>	
Utility Modification ----N <input type="checkbox"/>			Hazardous Waste --N <input type="checkbox"/>			Chemical Use/Storage <input type="checkbox"/>	
Soil Disturbance ----N <input type="checkbox"/>			Biological ResourcesN			Water/Well use N/A <input type="checkbox"/>	
Water Treatment N/A <input type="checkbox"/>			Radioactive Waste N			Other: <input type="checkbox"/>	
Water Flow N/A Modification			Mixed waste N				
Determination							
I find the proposed project qualifies as a CATEGORICAL EXCLUSION with no extraordinary circumstances. Specify which CATEX :							
I find that the proposed project MAY have a significant effect on the environment; therefore, an ENVIRONMENTAL ASSESSMENT (EA) will be prepared.							
ENVIRONMENTAL IMPACT STATEMENT (EIS)							
Project Manager:							
GEMS Coordinator:							

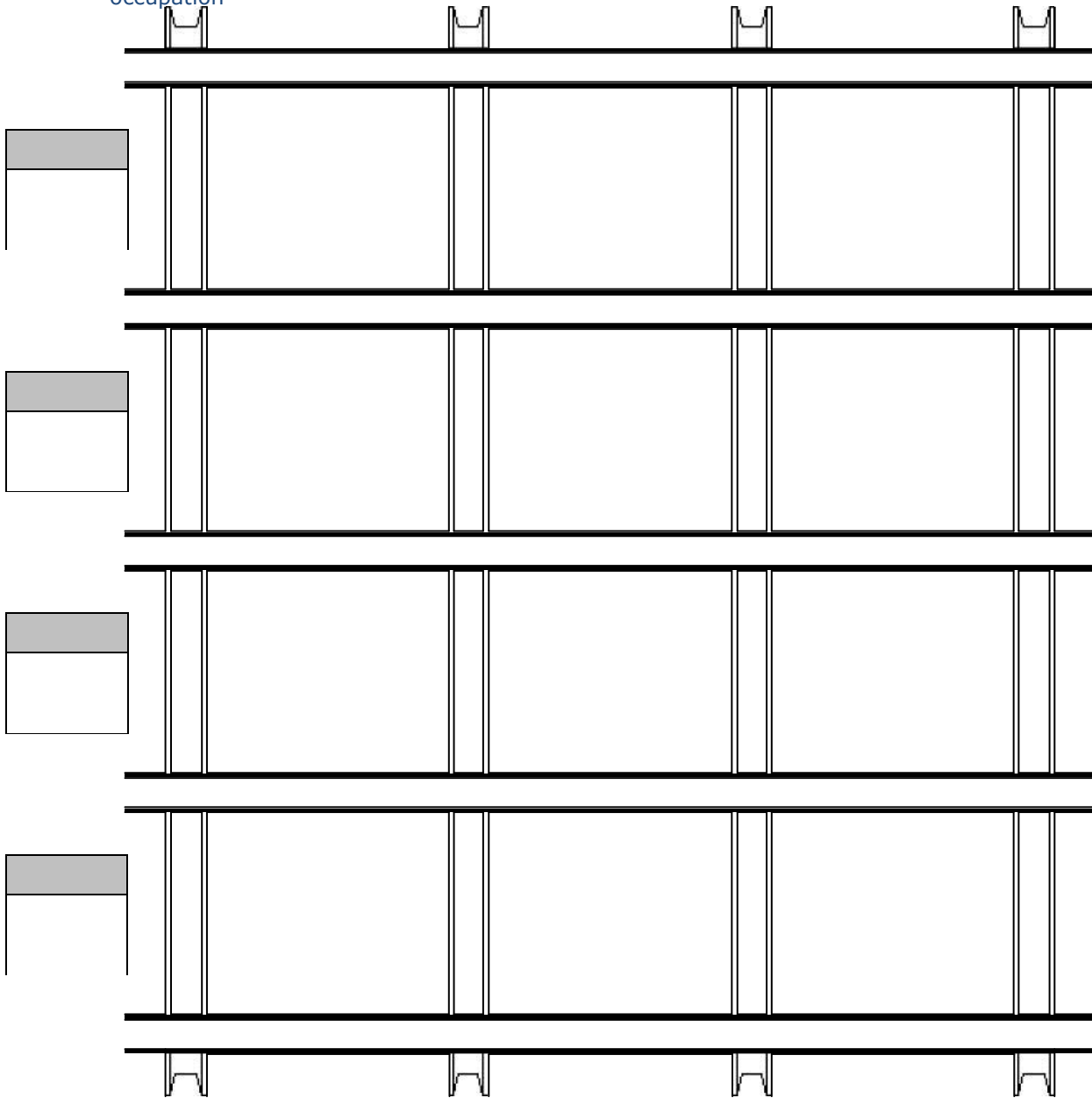
Vertical Environmental Impact Building

Building: 1 Floor: 4th Main, some minor utility & tie in and other work with 3rd & 5th

Phase I: Some minor construction;
making West Wing 4th Floor
Available for temporary
occupation

Phase II: Demo/Construction
on 4th Floor East Wing

Phase III: Demo/Construction
on 4th Floor West
Wing



NOTE the description in drawings and specs on the phasing for this project, also on the work to take place on other floors, including but not limited to utility work and tie ins. Proper notification and coordination to occur between contractor and COR. It is Contractor's responsibility for notifying Government. Keep occupied hospital up and running. Do not allow unplanned or unscheduled outages or work to occur in areas, especially in occupied areas. See spec for outage plan and scheduling requirements (typical spelled out in spec 01 00 00). Ensure schedule any electrical work required on basement for electrical feed, etc. NOTE all exterior chutes required with locations. See plans for chutes and lifts required for disposal and moving of materials.

This dwg is a sample. Insert appropriate area.

The floor plan shows the following rooms and areas:

- Top Section (Left to Right):**
 - Exam Office 109
 - Exam Office 106
 - Exam Office 105
 - Exam Office 104
 - Exam Office 103
- Top Right:** Children Play Area 112
- Second Section (Left to Right):**
 - Storage 307
 - Delive Labo 309
 - linery stor 110
 - Clean 304
 - Office
 - Dental Exam 200
 - Waiting 700
 - Waiting 701
 - Waiting 702
 - Waiting 703
- Bottom Section (Left to Right):**
 - Kitchen 300
 - Clean Room 305
 - Fluorid Mechanical 306
 - Imaging Waiting 600
 - CT Scanner 604
 - Pediatric Emerger Room 703

CONTRACTOR CONSTRUCTION/RENOVATION AREA ILSM INSPECTION

Week Of: _____

Project Title/Number: _____ **Location:** _____

1. Means of egress is clear in construction area:

MON

TUE

WED

THU

FRI

SAT

SUN

2. Accesses for fire department and emergency services are clear:

MON

TUE

WED

THU

FRI

SAT

SUN

3. Fire detection/Sprinkler systems operational:

MON

TUE

WED

THU

FRI

SAT

SUN

Note: If system is impaired ensure a temporary, but equivalent, system is provided. Temporary systems to be tested monthly. temporary system(s) provided: _____

4. Construction partitions are being maintained as a 1 hour fire barrier, all penetrations firestopped at the end of each

MON

TUE

WED

THU

FRI

SAT

SUN

5. Good housekeeping practices are being used in construction area. Flammables and combustible fire load is being kept to a

MON

TUE

WED

THU

FRI

SAT

SUN

6. Buildings, grounds, and equipment are being maintained in a safe manner (pay special attention to excavations, construction areas, and construction storage):

MON

TUE

WED

THU

FRI

SAT

SUN

7. The “No Smoking Policy” is being enforced throughout the project area:

MON

TUE

WED

THU

FRI

SAT

SUN

8. Job site fire extinguishers and other additional fire fighting equipment (if necessary) in place and inspected:

MON

TUE

WED

THU

FRI

SAT

SUN

9. Deficiencies and appropriation corrective actions to be listed here:

10. Inspector’s Initials:

MON

TUE

WED

THU

FRI

SAT

SUN

Form Completed By: _____

Completed form will be filed in the project file.

Ensure the proper personnel is posted on site for emergency calls, including the VA proper 911 number as well as the procedure to call the Emergency Manager in needed cases, current contact information is Barbara Smith, work cell 260-414-2533.

Should contact Emergency Manager in cases such as but not limited to water/electrical outages, spills, unforeseen incidences, etc.

Interim Life Safety Measure (ILSM) Evaluation for Construction/Renovation Projects

Project Name: Renovate Patient Areas 4 th Floor, Building 1	Date: 2-17-16	Project Manager (COTR): Jim Broyles or Brian Hauer (this may change) Safety Staff Member: Currently Jay Cole
Instructions: Use this evaluation to identify and implement activities to protect occupants during construction and renovations and during periods when the building and/or construction area does not meet the applicable provisions of the Life Safety Code. This evaluation is to be updated throughout the project to identify code deficiencies that cannot be immediately corrected and the ensuing special measures to be taken to compensate for increased life safety risk. Check all conditions that apply and add any other identified deficiencies and additional special measures:		

Evaluation Criteria:	Deficiency Description and Location:	ILSM required to compensate for increased life safety risk:		
Building/area egress routes blocked or altered. This applies to the construction area as well as surrounding areas. Egress routes for all personnel (including construction workers) must be maintained at all times.	List blocked egress route locations: All Stairwells to the 4 th Floor will be blocked at some point (however, due to phasing of the project, they will be closed off at different times. There will be ILSM for egress taken into account, new routes marked; all proper signage, etc. to be addressed for any re-routing and/or closures. Proper ILSM per NFPA and VA safety requirements to be adhered to. Maintain all locks, access and security as required. Keep occupied areas separate from construction areas per requirements. Coordinate all with COR.	1. Provide alternate means of egress. Personnel in the area shall be given additional training when alternative egress routes are designated. Signage shall be posted identifying the location of the alternate means of egress or exit to everyone affected.	Required	Y
		2. Exits in affected area(s) shall be inspected daily.	Required	Y
		3. Conduct one additional fire drill per shift per quarter in the affected area.	Required	Y
Obstructed or altered access to emergency services and for fire, police, and other emergency forces.	List access routes blocked: See Notes for Egress, same applies here, proper ILSM per NFPA and VA safety requirements to be adhered to	1. Provide and mark alternate access routes.	Required	Y
		2. Inspect routes daily.	Required	Y
Fire alarm, detection, and/or suppression systems out of service. Each outage will be assessed based on duration, location, building occupancy, existing fire barriers, and type of system out of service to determine necessary measures. Compliance with the applicable chapter of the LSC required.	List each system out of service: FA, detection and sprinkler may possibly be shut down, as contractor is putting in new systems during construction. There will be tie ins to be done, etc. However, per NFPA and VA safety requirements, certain systems should not be shut down without appropriate measures in place, i.e. fire watch required when systems shut down for more than 4 hours within 24 hour period List each temporary system required: Some systems to be shut down may be nurse call, fire sprinkler, FA, etc. When shut downs occur, they should be scheduled and should not affect the occupied areas of the facility	1. Provide temporary, equivalent alarm and detection systems.	Required	Y
		2. Inspect and test temporary systems monthly. The completion date of the test shall be documented.	Required	Y
		3. Fire alarm, detection, and suppression system outages > 4 hours in a 24-hour period require a fire watch and fire dept. notification. Fire watch shall be documented.	Required	Y
		4. Conduct one additional fire drill per shift per quarter in the affected area.	Required	Y

Evaluation Criteria:	Deficiency Description and Location:	ILSM required to compensate for increased life safety risk:		
Temporary construction separation requirements (see attached “Construction Partition Evaluation Criteria”)	List project separation requirements and locations: 1 hour rated barriers between construction areas and fire retardant visquine for any temporary work as shown on construction documents; contract describes the types of walls and doors acceptable. See General Requirements in Specs.	Inspect partitions daily. Ensure all smoke tight and fire barrier features are in place at the end of each workday. See construction documents specs and dwgs for all requirements. See Phasing Required. Negative Air Pressure required.	Required	Y
Additional fire-fighting equipment: Minimum requirement for all projects = properly maintained fire extinguisher every 75 ft. Assess all construction work and require other equipment based on criteria contained in NFPA 241.	List all additional fire fighting equipment: 1. Fire Extinguisher(s) per NFPA and OSHA 2. Any other required items if required by contract, NFPA codes, OSHA or VA safety requirements 3. Possible signage for safety and re-routes for ILSM purposes; also Fire Watch when required	1. Contractor to provide equipment and properly train all personnel in the use of all additional fire fighting equipment. Training shall be documented. Equipment shall be properly maintained.	Required	Y
		2. Provide additional fire fighting equipment and training to medical center staff.	Required	Y
Hot Work: evaluate all stages of construction to determine the type of hot work to be conducted.	List hot work tasks/locations: There will be hot work almost daily during certain phases of construction, i.e. welding, cutting, brazing, anything creating sparks. Contractor is required to meet all requirements per NFPA, OSHA and VA safety requirements. See Contract Documents. COR to provide Burn Permit. Contractor to schedule with VA, inspect subs and meet all applicable requirements. Contractor is required to monitor subs, enforce proper procedures as needed, coordinate daily with the COR and /or Safety to ensure getting hot work permits issued per VA standard (daily requirement for any hot work taking place-must request in timely manner to VA and request the burn permit be filled out and given).	1. Obtain Hot Work Permit in accordance with medical center procedure/project specifications.	Required	Y
			Required	Y
		2. Provide additional fire fighting equipment.	Required	Y
		3. Provide fire watch in accordance with NFPA 241. Documentation required.	Required	Y
		4. Additional requirements for hot work operations and fire prevention precautions, including permits and fire watches, shall be in accordance with NFPA 51 and 51B as applicable. List other requirements:	Required	Y

Evaluation Criteria:	Deficiency Description and Location:	ILSM required to compensate for increased life safety risk:		
Smoking prohibited in all buildings and in and near construction areas.	Applicable to all projects. If contractor employees smoke, must use designated smoking areas allowed, coordinate with COR and check contract documents, no smoking in bldg. or in a non-designated area	Strict enforcement of no smoking policy.	Required	Y
Storage, housekeeping, and debris removal practices will be conducted to ensure the building's flammable and combustible fire load is reduced to the lowest feasible level.	Applicable to all projects: In addition, contractor required to meet the VA safety & OSHA standards, also refer to NFPA. Daily housekeeping enforced for basic safety requirements, tripping & falling hazards, debris issues, combustible material hazard; to be removed and cleaned, per contract.	Accumulations of combustible waste material, dust, and debris shall be removed from the construction area and the immediate vicinity at the end of each work shift or more frequently as necessary for safe operations. Routes to be used for disposal as explained in contract	Required	Y
Fire/smoke barrier penetrations. Determine if construction will require the penetration of existing fire and/or smoke barriers.	List locations of project fire/smoke barriers required to be maintained for the duration of the project: 1. Floor and ceiling barriers. All Applicable per contract and to perform work as required per contract	All barrier penetrations shall be properly sealed at the end of each work shift. Sealing methods shall be in accordance with VA specifications.	Required	Y
Increased hazard surveillance is required when any Life Safety Code deficiency is identified during period of construction. Required for construction in occupied buildings.	List LSC deficiencies: Construction taking place in occupied facility.	Increase surveillance of building(s), grounds, and equipment, giving special attention to construction areas and storage (lay down locations), excavation, and field offices as applicable.	Required	Y
Construction occurring adjacent to occupied areas of the building.	List ILSMs implemented for this project: See other sections of entire Construction Risk Assessment where explained. Near occupied areas, in occupied facility; all proper re-routing of exits, alternate exits, barriers, interim fire drills/training, fire extinguishers, signage, security, locks, etc. to be done to meet contract, OSHA, NFPA, VA Safety	Department specific education to promote awareness of building deficiencies, construction hazards, and temporary measures implemented to maintain fire safety. This is the responsibility of the area Supervisor with assistance from the COTR and Safety Office.	Required	Y

Evaluation Criteria:	Deficiency Description and Location:	ILSM required to compensate for increased life safety risk:		
During construction the building's structural or compartmental fire safety features (fire zones) are impaired or altered.	List features impaired: Zones may be impaired or altered, the Fire Alarm /Detection & Suppression system will have work done on it during renovation. This may require re-zoning during tie ins. Proper Life Safety inspection & NFPA form 72 to be completed. All inspections to take place with necessary entities including Fire Dept., if required, coordinate w/ Safety & COR	Medical Center workers in the affected building will be trained to compensate for impaired structural or compartmental fire safety features (fire zones). This is the responsibility of the COTR and Safety Office.	Required	Y

Construction Partition Evaluation Criteria:

The VA Fire Safety Design Manual:

C. Separate all occupied areas from demolition, renovation, or construction activities by temporary smoke-tight construction partitions gypsum board or other approved non-combustible or limited-combustible material. Partitions shall be full height, extending suspended ceilings to the floor slab or roof deck above and **shall be one-hour fire rated**, unless sprinklers are installed and are operational **both sides of the temporary partition whereupon the partition may be permitted to terminate at the ceiling** in accordance with NFPA 241.

Note: This requirement is due to the inherently greater potential for fire or hazardous materials incidents associated with the combustibles and operations of demolition/construction. This risk is made worse by the likelihood of compromised fire protection systems and resistant construction. This does not obviate the need to provide other protective measures to contain dust and debris as specified by VAMCS 01010 section 1.6(D)(5). Sprinklers are considered to be operational when they are installed in accordance with NFPA 13 (spacing, protection, distance from the ceiling, etc.) and there is a sufficient automatic water supply.

NFPA 101 Chapter 4

4.6.11 Construction, Repair, and Improvement Operations.

4.6.11.1* Buildings, or portions of buildings, shall be permitted to be occupied during construction, repair, alterations, or additions where required means of egress and required fire protection features are in place and continuously maintained for the portion occupied or where alternative life safety measures acceptable to the authority having jurisdiction are in place.

4.6.11.2* In buildings under construction, adequate escape facilities shall be maintained at all times for the use of construction. Escape facilities shall consist of doors, walkways, stairs, ramps, fire escapes, ladders, or other approved means or devices arranged in accordance with the general principles of the *Code* insofar as they can reasonably be applied to buildings under construction.

A.4.6.11.1 Fatal fires have occurred when, for example, a required stair has been closed for repairs or removed for rebuilding, or when required automatic sprinkler system has been shut off to change piping.

A.4.6.11.2 See also NFPA 241, *Standard for Safeguarding Construction, Alteration, and Demolition Operations*.

NFPA 241 Chapter 8

8.6.2 Temporary Separation Walls.

8.6.2.1 Protection shall be provided to separate an occupied portion of the structure from a portion of the structure undergoing construction, or demolition operations when such operations are considered as having a higher level of hazard than the occupied portion of the building.

8.6.2.2 Walls shall have at least a 1-hour fire resistance rating.

8.6.2.3 Opening protectives shall have at least a 45-minute fire protection rating.

8.6.2.4* Nonrated walls and opening protectives shall be permitted when an approved automatic sprinkler system is installed.

A.8.6.2.4 Construction tarps would not be considered appropriate barriers or opening protectives.

ILSM Implementation List

Project Name: Renovate Patient Areas 4 th Floor, Building 1	Date: 2-17-16	Project Manager or VA Supervisor: Jay Cole-Safety Dept, Engineering COR unknown-possibly Brian Hauer or Jim Broyles
Instructions: List all “required” actions from the above ILSM evaluation.		
1. Applicable to all projects: Contractor to provide and maintain fire extinguishers and other fire-fighting equipment, on-site.		
2. Applicable to all projects: Strict enforcement of no smoking		
3. Applicable to all projects: Storage, housekeeping, and debris removal practices will be conducted to ensure the building’s flammable and combustible fire load is reduced to the lowest feasible level.		
4. See all other items in this Construction Risk Assessment, explaining the identified risks associated with this project. The above chart filled out identifies the risks and action that should occur to address those.		
5. Barriers to be constructed prior to work starting, no demo or construction should begin without proper barriers installed and inspected		
6. All security requirements to be adhered to, providing & installing all proper locks, coordinating with COR/PE/RE & Safety as necessary. Meet specs & dwgs on providing secure area. Meet ILSM for areas. Ensure VA personnel have access to construction area for security & inspection needs.		
7. Provide proper egress, access and exits per NFPA, contract, OSHA 30 and VA safety requirements. Meet VA life safety, safety, security requirements. Signage and re-routing of exits will most likely be necessary. Coordinate with COR and safety to address.		
8. Contractor to provide signage, can coordinate with COR as necessary on what to provide. The ICRA shall be posted on site. Signage shall meet safety requirements and contract requirements, some basic info. on signage is, i.e. WARNING CONSTRUCTION AREA, with job name, contractor name, phone numbers, emergency numbers, etc.		
9. Burn permits to be obtained as required along with all other permits, dust control to be kept up and maintained, all VA procedures per contract to be followed		
10.		
11.		
12.		
13.		

Hazard Assessment and Exposure Controls

Project Name: Renovate Patient Areas 4 th Floor, Building	Date: 2-17-16	Project Manager or VA Supervisor: Jay Cole-Safety Dept, Engineering COR unknown-possibly Brian Hauer or Jim Broyles
Instructions: Identify potential hazards and required control measures. See attached list for control measures.		

Hazard:	Concern?		Control Measure(s):	Remarks:
Asbestos Containing Material (ACM)	Yes	No	Proper Abatement procedures and control measures to take place, per dwgs and specs along with all permit and state requirements applicable. Including but not limited to fit tests and physicals to be submitted, proper permits and certs to be submitted, 3 chamber system and/or glove bag method used where appropriate and/or required.	See abatement Spec and other applicable specs
Dust	Yes	No	See contract for requirements on dust control. Dust control plan is to be included with the Safety Plan submitted by contractor. See specs as applicable for proper dust control procedures and methods, i.e. proper barriers to be utilized, wetting where allowed minor to keep dust down, cleaning of debris, ventilation, mopping, vacuuming, removal of debris, daily clean up, walk off mats	Also see Infection Control Risk Assessment, safety spec, general requirements spec.
Moisture/Water Leaks	Yes	No	This is a possibility. Contractor to ensure proper isolation of utilities and knowing valve location prior to work starting to ensure proper shut down if necessary. Clean up process in place in case of leak. Comply with VA spec, contract. Follow VA hospital requirements for moisture and water leaks	
Vapors/Fumes	Yes	No	Possible, however, low VOC required for all products used on VA projects. Epoxy paint will be used. Proper procedures should be enforced for cleaning, using visquine/barriers for vapor/fume containment, etc. Also, consult with COR for off hours work if required depending on locations. Proper ventilation/negative air.	Certain types of glue may be used that might produce vapors or odors. Certain paint as well. Use proper methods to mitigate per contract, VA safety standards and requirements, OSHA, manufacturer's instructions, etc.

Ensure the proper personnel is posted on site for emergency calls, including the VA proper 911 number as well as the procedure to call the Emergency Manager in needed cases, current contact information is Barbara Smith, work cell 260-414-2533.

Should contact Emergency Manager in cases such as but not limited to water/electrical outages, spills, unforeseen incidences, etc.

Hazard:	Concern?		Control Measure(s):	Remarks:
Noise	Yes	No	Some procedures to be used to mitigate noise in and around the occupied hospital would be sealing holes/penetrations on adjacent walls, ceiling and floor prior to major demo or noise producing activities. Use of low impact tools. Use of plywood, padding or insulation on adjacent surfaces to mitigate noise.	Refer to plans and specs for proper procedures. See contract documents including specs and dwgs for specifics. Coordinate with COR on proper times for high noise activities due to hospital being occupied.
Vibration	Yes	No	See Noise section above	Refer to plans and specs for proper procedures See above.
Air Pressure Relationships	Yes	No	Use of negative air pressure, maintaining per contract and manufacturers requirements; monitoring to ensure actual negative air being maintained.	Refer to plans and specs for proper procedures
Traffic Flow	Yes	No	See contract documents on proper entrances/exits to be used, on location of dumpster and lift for 4 th floor project, on areas allowed for parking, on entrance to facility parking allowed to be used. To keep construction debris, rock, and other items cleaned up on all areas in hospital including roadways and parking.	Refer to plans and specs for proper procedures
Proximity to HVAC intakes	Yes	No	Work near HVAC intakes to be kept at a minimum if possible and all proper protection such as outages or use of filter media to be utilized. See project specs, ICRA and infection control procedures. Refer especially to general conditions 01 00 00 and safety spec. Proper coordination should occur with COR.	Refer to plans and specs for proper procedures
Utility Outages	Yes	No	See general conditions spec, all notes on the dwgs and other applicable specs. No outages should occur without proper and full notification, full outage plan submitted per spec requirement. To minimize downtime (including the tie ins) throughout project. No outages should occur without written approval of COR and proper notification and coordination with hospital.	**Minimize impact to the medical center. Ensure proper notifications are made. COTR to ensure compliance with Engineering Specification requirements for utility outages.

Hazard:	Concern?		Control Measure(s):	Remarks:
Security Systems	Yes	No	Construction area should be locked during off hours, all CORs, security and safety with VA shall have access at all times. Proper signage to be installed and put up to protect hospital and all in the occupied hospital from construction area.	
Ceiling-Mounted Patient Lifts	Yes	No	Lift systems shall be evaluated and inspected in accordance with Patient Safety Alert #AL 10-07. Utilize the attached "Design Checklist for Ceiling Mounted Patient Lifts" and "After Installation Checklist for Ceiling Mounted Patient Lifts."—SEE attached form, also see contract requirements. Majority lifts in this contract are new, however for existing ones, proper moving and testing to be followed as required.	Ensure specification 11 73 00 is included in the construction specifications. All required tests and inspections must be documented. To Coordinate with COR on this topic. All testing on chair lifts is required, new track to be installed required. All testing required any time item is moved. This work shall be completed, coordinate with COR.
Other (describe):	Yes	No	See other sections in this Construction Risk Assessment Document (in entirety)	

Ceiling Mounted Patient Lifts

If not applicable check here:

Design Checklist (Patient Safety Alert #AL 10-07)

Project Title: Renovate Patient Areas 4 th Floor, Building		Patient Lift Location(s):	
Required Element:			Comments:
Manufacturer information, including model and serial number available?			<u>Model:</u> <u>Serial:</u>
Verification of as-built and structural engineering drawings?			
Contractor made aware of seismic restraint requirements?			Ensure VA Master Design Specification number 3.05.041 is incorporated and followed.
Verification of design compliance with NFPA 13 for fire sprinklers?			
Verification of design compliance with NFPA 99 and NFPA 70 for access to electrical and safety systems.			
Verification of required access to mechanical, HVAC, and other engineering spaces within the mounting area of the lift units.			

Ceiling Mounted Patient Lift Post Installation Checklist (Patient Safety Alert #AL 10-07)

The commissioning for a patient ceiling lift system(s) shall include, but not limited to, the following points as components of the commissioning procedures. Manufacturer post installation procedures shall be followed and documented as well. Proper PPE shall be worn as required by staff members during the commissioning process. Verify that ceiling lifts are not installed in treatment units with actively suicidal patients.

1. Refer to manufacturer's specific model specifications to verify all location information, including minimum clearances for operation are compliant. If clearance information is not provided suggested clearances are 31 inches adjacent to toilet and 55 inches adjacent to a bed.

Project Title: Renovate Patient Areas 4 th Floor, Building		Patient Lift Location(s): See in specs, contract and bid documents
Required Element:	Action Complete	Comments:
1. Manufacturer information, including model and serial number available?		<u>Model:</u> <u>Serial:</u>
2. Confirm receipt of operator & maintenance manuals.		
3. Verification of proper connections of structural system to building's structure to include seismic bracing.		
4. Verification of proper structural component sizing and physical installation to ensure lift is properly supported.		
5. Verification of proper interface of lift unit at ceiling (hard deck or soft tile) and proper installation of all protective features around the support rods and rails/tracks.		
6. Inspection of lift motor casing for cracks and proper alignment.		
7. Full extension and inspection of lift strap for loose threads or frays.		
8. Inspection of sling material and sling stitching for loose threads or frays.		
9. Inspection of spreader bar and clips for cracks and for		

loose or missing rings or cotter pins.		
10. Verification that all rail end stops are in place and tightened.		
11. Inspection and activation of hand control for full operation (e.g., up, down, left, right) and “return to charge” function if applicable.		
12. Inspection and activation of emergency up/down motor case control buttons if applicable.		
13. Confirm any and all motor case indicator lights are functioning (e.g., red service warning light, charging state light).		
14. If included in installation, verify rail turntable function, exchanger function, and gait alignment.		
15. Confirm track is clean and clear of all debris (suggest wiping entire length of interior track channel with a soft cloth). Note: use manufacturer’s recommended cleaning materials to avoid damage to the motor case and other components. Phenol or chlorine solutions may damage some motor case surfaces.		
16. Verification of any “soft start” or “soft stop” features and that lifting speed does not exceed 2.5 inches per second with “zero” load.		
17. Verification of load testing and deflection testing at lift listed maximum for each lift unit at its maximum rated lift capacity. Conduct this test in three progressive stages starting with a 100 pound load, then 50% of maximum rated lift capacity, then 100% maximum rated lift capacity.		
18. Verification of any “soft start” or “soft stop” features and that lifting speed does not exceed 1.5 inches per second under maximum rated lift capacity.		
19. Verification of function of emergency brake at maximum rated lift capacity.		
20. Verification of emergency lowering feature at maximum rated lift capacity.		

21. Inspection of units by the Project Engineer and Biomedical Engineering prior to release for clinical use.		
22. Training of clinicians and other staff who move and handle patients on the use of this equipment is accomplished by the manufacturer or their designated representative. Training is documented and competency verified prior to equipment use for patient handling.		
<p>Inspection completed by: _____ Date: _____</p> <p>Inspection verified by: _____ Date: _____</p>		

Hazard Control Measure List

Project Name: Renovate Patient Areas 4 th Floor, Building	Date: 2-17-16	Project Manager or VA Supervisor: Jay Cole-Safety Dept, Engineering COR unknown-possibly Brian Hauer or Jim Broyles
Instructions: List all identified hazard controls from the assessment		
1. See all other pages in this entire Construction Risk Assessment Document as well as referring to Specs and Drawings (& entire contract) where all Hazard Controls are identified & listed, proper procedures and requirements; some are listed below, these are not all hazard controls associated with this project.		
2. Ventilation to be used, proper negative air pressure achieved & monitored, keeping all maintained as required. Ensure construction barriers installed per specs & plans (including dwgs); follow up with ICRA & infection control requirements. See 01 00 00 spec. All installed prior to work occurring per contract.		
3. Use proper off work hour procedures where needed per COR, coordination with COR, allow COR time to communicate to hospital for certain items such as noise/vibration producing activities, outages, work in certain areas, vapor/fumes/odor causing work. Do not shut down areas of hospital except where spelled out in contract.		
4. Proper ICRA, dust control & infection control procedures to be followed, i.e. walk off mats, wetting where needed, cleaning daily, barriers, changing walk off mats as needed to prevent tracking any dust from outside construction area, HEPAvac to be used for dust on area and personnel.		
5. Proper abatement procedures followed per specs, with barriers, negative air pressure, sealing of all holes, openings, etc. Proper signage and 3 chamber system. Monitoring of air and tests required to be submitted.		
6. Providing fire watches where required, minimize downtime of all utilities, proper tie in of all utilities including fire alarm and detection, suppression system and more. See below for more detail, as well as NFPA requirements and contract docs. 90 min emergency light test required prior to turnover of area by contractor. All tests to be submitted.		
7. For all fire alarm, detection and suppression systems: Proper zoning and testing. Follow Life Safety requirements involving fire dept as required, NFPA 72 forms filled out and submitted, testing of all pull station, detectors, sprinkler system and any other requirements by NFPA or contract. Battery back-up testing to be done.		
8. Use of filter media and outages as required to protect HVAC system for infection control, dust control, and other purposes (possibly protecting existing systems from being contaminated)		
9. Providing adequate outage plans for utilities with proper notification per contract specs		
10. It is the responsibility of the Contractor to document the existing conditions as necessary or required, then ensure proper storage and replacement of any items to be re-used. All testing required shall occur.		
11. Burn permits and any other permits that are the responsibility of the contractor to obtain shall be obtained and kept up to date		
12.		
13.		
14.		

Hazard Control Measures-ITEMS in blue to be enforced for requirements

(If used, modify as necessary for the specific hazard)

Asbestos:

- a. Appropriate VA and state asbestos removal, control, monitoring, and clean-up incorporated into the project specifications.
- b. VA to hire independent Industrial Hygienist to inspect and clear area for occupancy in accordance with VA standards.
- c. Project area will be encased with spray-applied hard surface encasement material.
- d. Provide mini containments under negative air in public areas.
- e. Sealed gypsum board barrier will be constructed to isolate the construction area from the public.
- f. Transite panels will be removed, which is considered Class B removal.

Dust:

- a. Sealed gypsum board barrier will be constructed to isolate the construction area from the public.
- b. Trash carts will be covered when transported through the building (if allowed by contract).
- c. Provide negative air machine exhausted to outside.
- d. Provide mini containments under negative air in public areas.
- e. Provide negative air machine in space as air scrubber.
- f. Provide walk off/tacky mats at entrances to work area.
- g. Perimeter barrier will be constructed above the ceiling to isolate the construction area with other areas above the ceiling.

Moisture Water Leaks

- a. Contain any water from core drilling activities.
- b. Dike any floor penetrations to minimize risk of leaks from construction zone.

Vapors/Fumes:

- a. Use of products with low Volatile Organic Compounds (VOCs).
- b. Provide negative air in construction zone exhausted to outside, away from HVAC intakes.
- c. Seal work area with airtight barrier.
- d. Use of combustion engine and propane powered equipment prohibited in buildings. Ensure use outdoors is away from HVAC intakes.
- e. Properly seal any floor penetrations in accordance with fire-stopping specifications to minimize risk of fumes from construction zone migrating to other areas of the building.
- f. Shut down or modify operation of air handler to minimize infiltration of fumes from outside.
- g. Use charcoal and/or HEPA filters on HVAC outside air intakes to protect interiors spaces from dust or fumes.

Noise:

- a. Schedule demolition work after normal work hours, to extent possible.
- b. Cut all metal outside the building; use of low impact tools where applicable. Coordinate times of high impact noise with COR to accommodate occupied hospital. Install foam/plywood/padding to all adjacent surfaces to minimize noise and vibrations

Vibration:

- a. Schedule demolition work after normal work hours, to extent possible.
- b. Coordinate with occupants in surrounding areas to explain the work occurring; see items under above Noise section

Air Pressure Relationships:

- a. Provide negative air during asbestos abatement.
- b. Provide negative air during construction.-where applicable per contract
- c. Seal off supply and exhaust Heating, Ventilation and Air-Conditioning (HVAC) registers.
- d. Provide anti room under negative pressure at entrance to project zone.

Traffic Control:

- a. Access construction area via exterior door. Refer to contract for more specifics.
- b. Schedule delivery of large quantities of material and demolition haul out after hours.

Open Outside Walls:

Construct temporary outside wall to limit the infiltration of wind, air and temperature differences into the project site. (if required on this project due to type of work taking place). Not to leave exposed to the elements.

Impact to Levels Above and Below:

- a. Coordinate with occupants in surrounding areas to explain the work occurring-always coordinating through COR as necessary.
- b. Follow asbestos protocol when doing under floor work.
- c. Vacate areas when doing below floor work off of the catwalk.

Proximity of Air Intakes:

Shut down air handlers to reduce infiltration of fumes from exterior activities such as painting, gasoline powered engines, roofing operations, equipment, etc.—Coordinate with COR and check contract for specifics on this. Filter media may be acceptable in some cases along with providing ventilation. Consult COR and Contract.

INFECTION CONTROL RISK ASSESSMENT/IMPLEMENTATION

PROCEDURES:

A. Determine Location Group based upon work location:

LOCATION GROUP 1 LOWEST	LOCATION GROUP 2 MEDIUM	LOCATION GROUP 3 MEDIUM HIGH	LOCATION GROUP 4 HIGHEST
1) Office areas 2) Engineering 3) Environmental services	1) At patient care units (example: Cardiac, Rehab., ultrasound) 2) Outpatient areas	1) Emergency Room 2) Radiology/MRI 3) Post-anesthesia Care unit 4) Intensive Care Units 5) Nuclear Medicine 6) Admission/Discharge area 7) PT – tank areas 8) Cafeteria 9) Echocardiography 10) Laboratories 11) Dialysis 12) Central sterile supply 13) Oncology 14) Cardiology	1) Operating Rooms; Sterile Processing 2) Intensive Care units 3) Cardiac Catheterization 4) Anesthesia areas 5) All endoscopy areas 6) Pharmacy Phase 1 Phase 2 & 3

B. Determine Work Type:

Work Type A: Inspections and Non-Invasive Activities. Includes, but is not limited to, removal of ceiling tiles for visual inspection limited to 1 tile per 50 square feet, painting (but not sanding) wall covering, electrical trim work, minor plumbing, and activities which do not generate dust or require cutting of walls or access to ceilings other than for visual inspection.

Work Type B: Small scale, short duration activities which create minimal dust. Includes, but is not limited to, installation of telephone and computer cabling, access to chase spaces, cutting of walls or ceiling where dust migration can be controlled.

Work Type C: Any work which generates a moderate to high level of dust or requires demolition or removal of any fixed building components or assemblies. Includes, but is not limited to, sanding of wall for painting or wall covering, removal of floor coverings, ceiling tiles and casework, new wall construction, minor ductwork or electrical work above ceilings, major cabling activities, and any activity which cannot be completed within a single work shift.

Phase 1

Phase 2 & 3

Work Type D: Major demolition and construction projects. Includes, but is not limited to, activities which require consecutive work shifts, require heavy demolition or removal of a complete ceiling system, and new construction.

C. Determine Interim Measure Class:

CONSTRUCTION ACTIVITY	TYPE "A"	TYPE "B"	TYPE "C" Phase 1	TYPE "D" Phase 2 & 3
RISK LEVEL				
Group 1	I	II	II	III/IV
Group 2	I	II	III	IV
Group 3 Phase 1 &	I	III	III/IV	IV
Group 4 Phase 2 & 3	III	III/IV	III/IV	IV

Interim Measure Class I

1. Execute work by methods to minimize raising dust from construction operations.
2. Immediately replace any ceiling tile displaced for visual inspection.

Interim Measure Class II

1. Provide active means to prevent air-borne dust from dispersing into including water mist work surfaces to control dust while cutting.
2. Seal unused doors with masking tape.
3. Block off and seal air vents.
4. Cleanup and disposal as appropriate.

Interim Measure Class III: includes all items listed in class I and II along with all below

1. Isolate HVAC system in area where work is being done to prevent contamination of system.
2. Complete all critical barriers before construction begins or implement control cube method.
3. Maintain negative air pressure within work site utilizing HEPA equipped air filtration as required on a per project basis.
4. Contain construction waste and during transport in appropriate container.
5. Wet mop and/or vacuum with HEPA filtered vacuum before leaving work areas.
6. Place dust mat at entrance and exit of work area.
7. Clean construction area before leaving work area daily.

Interim Measure Class IV: includes all items listed in class I II and III along with all below

1. Isolate HVAC system in area where work is being done to prevent contamination of system.
2. Complete all critical barriers before construction begins per project basis.
3. Maintain negative air pressure within work site utilizing HEPA equipped air filtration units as required on a per project basis.
4. Seal holes, pipes, conduits, and punctures appropriately.
5. Construct anteroom and require all personnel to pass through this room so they can vacuumed using an HEPA vacuum cleaner before leaving work site or they can wear cloth or paper coveralls that are removed each time they leave the work site as required per project basis.
6. All personnel entering work site are required to wear appropriate protective clothing as required by the area.
7. Provide adhesive/carpet walk-off mats at entrance to work area within the anteroom. Replace used mats with new mats in accordance with manufacturer's recommendations and/or as needed.
8. Do not remove barriers from work area until completed project is inspected by the VAMC's Safety and Infection Control Departments, COTR, and thoroughly cleaned.
9. Provide appropriate clean up daily.

10. Wet mop area with disinfectant as required.
11. Remove barrier materials carefully to minimize spreading of dirt and debris associated with construction.
12. Contain construction waste before and during transport in appropriate covered containers.

- D. Document infection control measures to be implemented on attached form. List contractor, service line or individual responsible for implementation.
- E. Obtain appropriate approvals.
- F. Review and implement all required interim measures with the Contractor's Project Managers and personnel performing work.
- G. Complete Infection Control Permit and ensure it is posted outside the work site entrance at all times.**

Phase 1 is working on some items such as outlets/receptacles, infill of walls, some minor wall work to prepare the W wing for temporary occupancy, then Phase 2 is working on the E wing (Major Construction/Demo/Renovation) while the W wing is temporarily occupied, then Phase 3 is moving out of the W wing which will cause construction to most likely pause to allow for proper moving (approx.. 1 month); consult contract Docs. Then the W wing will have construction on-going (Again Major) for Phase 3. ICU to remain open at all times. Moves phased due to ICU not being able to be closed.

For the work in phase 1, it is possible that the wall work can be achieved with negative air pressure inside the room with no barriers needed separately since the doors can be shut/sealed, ensure area/room working is not occupied as that acts as the "barrier" for the temporary construction area. Negative air pressure is required.

Ensure there is no tracking of dust outside the construction area

Change out the dust mats or adhesive mats as required so no dust is tracked outside the area along with use of HEPAvac

INFECTION CONTROL MEASURES

Location Group: See above documents
Work Type: See above documents for info.
Interim Measure Class: III and IV depending on type of work and phase, see above
Infection Control actions to be implemented:
1) All are covered here, see above areas where all required is explained
2) In addition, for training, ensure all personnel on this job site (i.e. contractor and all subs are properly and fully trained in infection control measures, especially relating/pertaining to this job; this could be done during the OSHA/on site safety briefing given prior to each employees first day/start of work, when names are listed to document the briefing took place, the infection control portion should also take place as well
3)
4)
5)

Responsibility for implementation:
1) Contractor performing the work is responsible to ensure all ICRA and CRA measures are properly completed and upheld throughout project. Also responsible to manage any subs performing the work.
2)
3)
4)
5)
6)
7)
8)

VANIHCS Infection Control Construction Permit					
Location of Construction: <u>4th Floor (other possible, consult contract)</u>			Project Start Date: <u>Fall 2016estimate</u>		
Project Coordinator: <u>Unknown at this time</u>			Estimated Duration:		
Contractor Performing Work: <u>Unknown at this time</u>			Permit Expiration Date: <u>when finished</u>		
Supervisor: <u>Unknown at this time-possible Sandy Bury</u>			Constr.Supervisor phone: <u>Unknown</u>		
		TYPE A: Inspection, non-invasive activity			GROUP 1: Least Risk
		TYPE B: Small scale, short duration, moderate to high levels			GROUP 2: Medium Risk
	Ph1	TYPE C: Activity generates moderate to high levels of dust, requires greater 1 work shift for completion			GROUP 3: Medium/High Risk
X	X	TYPE D: Major duration and construction activities Requiring consecutive work shifts	X	X	GROUP 4: Highest Risk
CLASS I					
		1. Execute work by methods to minimize raising dust from construction operations.			3. Use control cube for ceiling access when >1 ceiling tile removed.
		2. Immediately replace any ceiling tile displaced for visual inspection.			4. Clean work area immediately after task completion.
CLASS II					
		1. Provide active means to prevent air-borne dust from dispersing into atmosphere			7. Contain construction waste before transport in tightly covered containers.
		2. Water mist work surfaces to control dust while cutting.			8. Wet mop and/or vacuum with HEPA filtered vacuum before leaving work area.
		3. Seal unused doors with duct tape.			9. Remove or isolate HVAC system in areas where work is being performed.
		4. Block off and seal all air vents.			
		5. Place dust mats at entrance and exits of work areas.			
		6. Wipe work surfaces with approved disinfectant.			
CLASS III					
		1. Remove or Isolate HVAC system in area where work is being done to prevent contamination of the duct system.			6. Vacuum work area with HEPA filtered vacuums.
		2. Complete all critical barriers to seal area from non work area before construction begins.			7. Wet mop with disinfectant.
		3. Maintain negative air pressure within work site 24/7, utilizing HEPA equipped air filtration units; with filter changes as needed.			8. Remove barrier materials carefully to minimize spreading of dirt and debris associated with construction.
		4. Do not remove barriers from work area until completed project is thoroughly cleaned with hospital-approved disinfectant by Housekeeping, and approved by Project Coordinator.			9. Contain construction waste before transport in tightly-covered containers.
Date					10. Cover transport receptacles or carts. Tape covering. Wipe off cart and wheels with approved disinfectant before transporting debris.
Initial					
Class IV					
		1. Isolate HVAC system in area where work is being done to prevent contamination of duct system.			7. Do not remove barriers from work area until completed project is thoroughly cleaned with approved disinfectant by Housekeeping and approved by Project Coordinator.
		2. Complete all critical barriers or implement control cube method before construction begins.			8. Vacuum work area with HEPA filtered vacuums.
		3. Maintain negative air pressure within work site 24/7, utilizing HEPA equipped air filtration units; with filter changes as needed.			9. Wet mop with disinfectant.
Date					10. Remove barrier materials carefully to minimize spreading of dirt and debris associated with construction.
Initial					11. Contain construction waste before transport in tightly covered containers.
		4. Seal holes, pipes, conduits, and punctures appropriately.			12. Cover transport receptacles or carts. Tape covering.
		5. Construct anteroom and require all personnel to pass through this room so they can be vacuumed using a HEPA vacuum cleaner before leaving work site or they can wear cloth or paper coveralls that are removed each time they leave the work site.			13. Remove or isolate HVAC system in areas where work is being done.
		6. All personnel entering work site are required to wear shoe covers; changed each time exiting work area.			
Additional Requirements: <u>Adhesive walk-off mats required at entrance to and exit from work areas for Class III and Class IV projects.</u>					
YES NO 2-step tuberculosis skin testing (TST) documentation is required for this project involving occupied rooms. YES NO N-95 respirator fit-testing documentation is required for projects involving occupied airborne isolation rooms. TB risk assessment: Per CDC criteria Dorn VAMC is low risk and although not required (except as listed above), all construction workers are encouraged to have 2-step tuberculosis skin testing (TST).					
Date Initials :			_____ Exceptions/Additions to this permit Date Initials are noted by attached memoranda		
Permit Request By: <u>Hillary Fliess-at 95% Design-ICRA</u>			Permit Authorized By:		
Date:			Date:		

POST-CONSTRUCTION ASSESSMENT

PROJECT:

LOCATION:

PROJECT TYPE:

PROJECT START(NTP) DATE:

PROJECT COMPLETION DATE:

[Final Occupancy Review Checklist](#) (engineering Share Point) has been completed and all required documentation submitted?

Yes No NA (N/A for in-house projects)

Air quality:

Review comments:

Additional action taken:

Infection control:

Review comments:

Additional action taken:

Review comments:

Additional action taken:

Noise and vibration:

Review comments:

Additional action taken:

Physical security:

Review comments:

Additional action taken:

Emergency procedures:

Review comments:

Additional action taken:

General comments:

Submitted by:

1. Project Manager/COTR/Shop Supervisor	Date
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Obtain the following approvals, in the order listed, as applicable:

1. Maintenance Control Manager, Engineering Service	Date
2. Assistant Chief, Engineering Service	Date
3. Infection Control Coordinator	Date
4. VA Police Representative	Date
5. Environmental Health and Safety Representative	Date
6. Chief, Engineering Service	Date