

Pre-Construction Risk Assessment		
Infection Control / Safety Construction Permit		
Location of Construction: Throughout Medical Center	Project Start Date:	
Project Coordinator: John Sauser	Estimated Duration: 90 Days	
Contractor Performing Work:	Permit Expiration Date:	
Supervisor:	Telephone:	
Description of project: Project No. 542-05-104 Replace Storm Sewers Phase 3 Excavation, removal and replacement of sewer piping, some tree cutting and removal, flushing and testing of completed sewer construction throughout Medical Center campus.		
Construction Activities		
The following projects do not require completion of the Pre-construction risk assessment form: <ol style="list-style-type: none"> 1. Paint and wallpaper in business offices and non-patient areas. 2. Paint in patient room if closed for painting and less than 3 sq.ft. of wall needs patched. Filter for room unit changed after painting. 3. Installation of soap dispenser/needle box/paper towel holder in patient room 4. Repair of window blind. 5. Ceiling tile replacement for areas less than 50% of the total square footage of the room, if not in business offices and non-patient areas. 6. Ceiling tile replacement for area less than 5 2 X 2 tiles in a patient area if patient is out of the immediate area and clean up can be accomplished before patient returns. 7. Minimum repair of nurse call system/TV/Bed/Telephone. 8. Check or replace electric outlet. 9. Replace light bulb. 10. Unstop sink/commode with no water on floor. 11. Unstop commode when water on floor requires maintenance to have Housekeeping clean area immediately. 12. Repair medical gas outlet. (Front Body) 13. Air balance readings. 14. Check air-conditioning. 15. Intermediate jobs that create a moderate amount of dust inside room and is made negative by use of hepa-equipped unit with minimum 10 ACH, and all air discharged outside, hepa unit must run 2 hours after completion of job and Housekeeping must clean room before unit is removed from room. All work and use of hepa unit must be documented and copy forward to Infection Control and Safety. NOTE: all duct vents to be sealed off during work! 		
Yes	No	
Will there be noise generated that will impact a department adjacent to, above, or below the construction area?		
	X	a. If so, these departments must be notified.
		b. How are you going to reduce the noise to an acceptable level?
Yes	No	
Will there be vibration generated that will impact a department adjacent to, above, or below the construction area?		
	X	a. If so, these departments must be notified each time this type of work will be performed.
		b. How are you going to reduce the vibration to an acceptable level?
Yes	No	
	X	Are Emergency Procedures in place and posted on each job for accidental events that could greatly impact Patient Care or Life Safety to the facility? Included in these procedures are such things as: <ul style="list-style-type: none"> • Emergency telephone numbers of key departments. • A plan that describes where main valves, switches, and controls are for the area in case of an emergency. • A plan for unexpected outages.
Environment		
Yes	No	Are any of the following environmental hazards present?
X		Will hazardous chemicals be used on this project? How will fumes and odors be controlled? MSDS Sheets are required. PVC cement glue
	X	Is asbestos abatement required on this job? If so, notify Safety and FES at the activation.
X		Will there be hot work done on this project? If there are, then a hot work permit must be posted on the job site. All hot work must have a fire watch assigned to each area while the hot work is being performed.
	X	Will there be a Confined Space Entry required on this project? If so, the Medical Center's confined space entry program must be followed.
Utility Failures		
Yes	No	Will any of the following systems be out of service at any time during the project?
	X	• Fire alarm (If out for more than 4 hours, Interim Life Safety Measures must be implemented.)
	X	• Sprinkler (If out for more than 4 hours, Interim Life Safety Measures must be implemented.)
	X	• Electrical
	X	• Domestic water
	X	• Oxygen
	X	• Sewage

Yes	No	
	X	Will there be any work that will require activation of the Interim Life Safety Measures during this project? Some things that trigger ILSM's to be implemented are but not limited to: <ul style="list-style-type: none"> Any construction that impacts an EXIT or stairs, Any construction that impacts major breaches in a fire or smoke wall, Taking the main fire protection system out of service (sprinkler), Taking the main fire alarm system out of service, Taking the "area" fire or fire alarm systems out of service for more than 4 hours within a 24-hour period.
		Implementation of the ILSM requires a fire watch and the ILSM forms to be completed (forms are to be obtained from the
	X	Medical Center Fire Department
Additional Safety Concerns		
Yes	No	
	X	Will construction affect exit routes from occupied areas adjacent to construction site?
X		Will project affect traffic patterns in area? <i>If yes, explain plan.</i>
		The following must be completed prior to any construction activities.
	X	<ul style="list-style-type: none"> Separation wall must be constructed prior to project beginning. Fire protection systems must remain intact. Provide extra fire extinguishers in work areas. Maintain exit lights in work area. Maintain negative air in construction area (24/7) through duration of project. There cannot be any return air from within the construction area to the rest of the building. Redirect exiting not to go through construction area. Put signs on doors into construction area "Construction Area – Do Not Enter". Maintain daily logs and keep a current Hot Work Permit. Place tacky mats at doors exiting construction area. All debris removal must be by covered cart. Maintain clean and orderly work area. How will this project affect the departments above, below and adjacent to this project?
Air Quality and Infection Control		
The construction activity types are defined by the amount of dust that is generated, the duration of the activity, and the amount of shared HVAC systems. Contact CVAMC's Safety Office and Infection Preventionist Department if any activity is questionable under these guidelines.		
Yes	No	
	X	Will dust be generated during this project? <i>If yes, explain location of and plan for interim dust barriers or attach floor plan with barriers clearly marked.</i>
	X	Will debris removal be necessary? <i>If yes, explain plan for debris removal and control.</i>
	✓	Negative airflow ventilation and filtration in place and assessed for effectiveness.
	X	Exhaust fans in place and functioning.
	X	Is supply duct to area closed and HEPA filtration unit in place and functioning in adjacent patient care area?
	X	Will work be done in a sterile area? <i>If so, how are you going to maintain sterile atmosphere in work area and access to and from work area?</i>
Type A Inspections and Non-Invasive Activities or Small scale, Short duration Activities		
Yes	No	
	✓	Removal of ceiling tiles for visual inspection (limited to <25% of total area)
	✓	Painting (limited sanding to <10% of area)
	X	Wall covering—Describe work to be done:
	✓	Electrical trim work. Describe:
✓		Minor plumbing. Describe: Storm Drain repair outside and inside Oval 1 and 2
Type B Small scale, short duration activities that create minimal dust.		
Yes	No	
	X	Installation of telephone and computer cabling

Type C		Any work that generates a moderate to high level of dust or requires demolition or removal of any fixed building components or assemblies.
Yes	No	
	<input checked="" type="checkbox"/>	Sanding of walls-(>50% of surface area)-drywall finishing
	<input checked="" type="checkbox"/>	Removal of <input type="checkbox"/> floor coverings <input type="checkbox"/> ceiling tile <input type="checkbox"/> casework (>50% of surface area) Describe:
	<input checked="" type="checkbox"/>	Cutting of walls or ceiling. Describe:
	<input checked="" type="checkbox"/>	New wall construction
	<input checked="" type="checkbox"/>	Minor ductwork or electrical work above ceilings
	<input checked="" type="checkbox"/>	Major cabling activities
	<input checked="" type="checkbox"/>	Activity cannot be completed within a single work shift
Type D		Major demolition and construction projects.
Yes	No	
	<input checked="" type="checkbox"/>	Will require heavy demolition or removal of a complete ceiling system
	<input checked="" type="checkbox"/>	New construction

GROUP 1 LOWEST	GROUP 2 MEDIUM	GROUP 3 HIGH	GROUP 4 HIGHEST
1.) Office areas 2.) Hallways 3.) FES/EMS areas	1) Bldg. #69 Therapy areas 2) Respiratory Therapy 3) Outpatient Clinics 4) CBOC's 5) Mental Health Units	1) Pharmacy 2) Radiology/ CT Scanner 3) Urgent Care 4) Laboratories	1) NHCUs (1B Med, 59B, 138A, 138B) 2) SPD; AMCU; 1B Medicine; 3) Respiratory Isolation Rooms

Contact the Clinical Epidemiology Department for risk assessment of any area not listed above.

CONSTRUCTION ACTIVITY (from previous page) <i>Check type of activity</i>		INFECTION CONTROL RISK GROUP (see above) <i>Check risk group</i>	
<input checked="" type="checkbox"/>	TYPE A: Inspection, non-invasive activity	<input checked="" type="checkbox"/>	GROUP 1: Lowest Risk
	TYPE B: Small scale, short duration projects		GROUP 2: Medium Risk
	TYPE C: Activity generates moderate to high levels of dust, requiring >1 work shift for completion		GROUP 3: High Risk
	TYPE D: Major duration and construction activities Requiring consecutive work shifts		GROUP 4: Highest Risk

CLASSIFICATION OF REQUIRED PREVENTIVE MEASURES

CONSTRUCTION ACTIVITY- INFECTION CONTROL RISK GROUP	TYPE "A"	TYPE "B"	TYPE "C"	TYPE "D"
Group 1	I	I	II	III/IV
Group 2	I	I	III	IV
Group 3	II	III	III/IV	IV
Group 4	III	III/IV	III/IV	IV

An Infection Control—Safety Construction Permit is required for Class III or higher projects. Refer to shaded area on Construction Activity/Risk Group Matrix (above).

CLASS I x	1. Execute work by methods to minimize raising dust from construction operations.	2. Immediately replace any ceiling tile displaced for visual inspection.
CLASS II	1. Provide active means to prevent air-borne dust from dispersing into atmosphere. 2. Water mist work surfaces to control dust while cutting. 3. Seal unused doors with duct tape. 4. Block off and seal air vents. 5. Wipe surfaces with disinfectant.	6. Contain construction waste before and during transport in tightly covered containers. 7. Wet mop and/or vacuum with HEPA filtered vacuum before leaving work area. 8. Place dust mat at entrance and exit of work area as needed. 9. Remove or isolate HVAC system in areas where work is being performed.


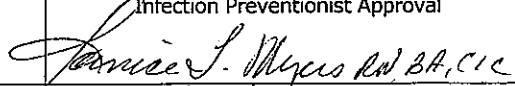
CLASS III	<ol style="list-style-type: none"> 1. Obtain infection control permit before construction begins. 2. Isolate HVAC system in area where work is being done to prevent contamination of the duct system. 3. Complete all critical barriers before construction begins. 4. Maintain negative air pressure within work site utilizing HEPA equipped air filtration units. 5. Contain construction waste before and during transport in tightly covered containers. 6. Seal holes, pipes, conduits, etc. appropriately. 	<ol style="list-style-type: none"> 7. Place dust mat at entrance and exit of work area. Replace as needed. 8. Do not remove barriers from work area until completed project is inspected by Safety and Epidemiology Depts. and thoroughly cleaned. <p>After work is completed:</p> <ol style="list-style-type: none"> 9. Remove barrier materials carefully to minimize spreading of dirt and debris associated with construction. 10. Remove isolation of HVAC system.
Class IV	<ol style="list-style-type: none"> 1. Obtain infection control permit before construction begins. 2. Isolate HVAC system in area where work is being done to prevent contamination of duct system. 3. Complete all critical barriers or implement control cube method before construction begins. 4. Maintain negative air pressure within work site utilizing HEPA equipped air filtration units. 5. Seal holes, pipes, conduits, and punctures appropriately. 6. 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. 	<ol style="list-style-type: none"> 7. All personnel entering work site are required to wear shoe covers 8. Contain construction waste before and during transport in tightly covered containers. Cover transport receptacles or carts. Tape covering. 9. Do not remove barriers from work area until completed project is inspected by Safety and Epidemiology Depts. and thoroughly cleaned. <p>After work is completed:</p> <ol style="list-style-type: none"> 10. Vacuum work area with HEPA filtered vacuums. 11. Wet mop with disinfectant. 12. Remove barrier materials carefully to minimize spreading of dirt and debris associated with construction. 13. Remove isolation of HVAC system.

Additional concerns for all classes:

1. Maintain manpower and equipment including dust mops, wet mops, brooms, buckets, and clean wiping rags for cleaning fine dust from floors and adjacent occupied areas.
2. Contain work areas outside of construction barriers, including spaces above ceilings, with full height polyethylene sheet barrier, tightly taped.
3. Clean up dust tracked outside of construction area immediately.
4. Temporary construction barriers i.e. Chain link fencing around excavation
5. Removal of debris must be in covered containers.

Additional Requirements or Concerns:

Utility markouts to be done by contractor. Chain link fencing around excavation. Delineate tree removal area i.e. close sidewalks to veterans and staff during removal.

Permit Request By	Safety Approval	Infection Preventionist Approval
		
Date:	Date: 2/29/12	Date: 2/29/2012