Life Safety Plan (LSP)

1. Current draft of the LIFE SAFETY PLAN (LSP) will be provided by CF PM/MUHC PDC to the Consultant during design. The Design Consultant is responsible to modify and include a revised LIFE SAFETY PLAN (LSP) in the drawing set of the Contract Documents. The LIFE SAFETY PLAN must indicate all fire rated walls and assemblies, structural component ratings, smoke and fire compartments, means of egress travel distances and exits. The LIFE SAFETY PLAN should include the following General Notes:

   - All penetrations (new or existing) shall be sealed at all times, except when actively working with the penetration. Existing unsealed penetrations, once encountered, shall be sealed immediately with the appropriate fire/smoke stopping material. See CPDG section 07 8400 for more information.

   - Existing exits must remain accessible. Clear paths of travel to exits must be maintained within the construction limits. Contractor is to coordinate with Owner's Representative to maintain proper exit signage throughout construction. Any revised/temporary egress plan must be approved by the UM AHJ. It must be drawn in plan view, include specific dates it will be in place, and is normally issued as an ASI during construction.

   - Firewalls, fire barriers, fire partitions, smoke barriers and smoke partitions shall be effectively identified with stenciling in concealed spaces. Such identification shall: 1) Be located within 15' of the end of each wall and at intervals not exceeding 30" measured horizontal lying along the wall partition. 2) Include lettering not less than 3" in height with a minimum 3/8" stroke in a contrasting color incorporating wording identifying the barrier designation and fire resistance rating.

Infection Control Plan (ICP)

1. The Design Consultant is responsible to create and include an INFECTION CONTROL PLAN (ICP) in the drawing set of the Contract Documents. The INFECTION CONTROL PLAN should indicate locations and configurations of temporary dust and containment partitions, specifying in detail the type of construction for each partition and the path of debris removal to the exterior of the building. The following notes are to appear with the INFECTION CONTROL PLAN:

    - Dust Seal Partitions General Notes:

        - The Contractor is responsible to confine dust and debris to within the dust partition enclosure. There shall be NO visible dust or debris outside of the dust partitioned area. If Contractor is unable to maintain a dust and debris free area outside of dust-partition enclosure, more extensive measures will be required at the Contractors expense. The following General Notes further indicate required measures.

        - Precut materials for dust partitions in unoccupied areas.

        - Construct dust partitions of non-combustible gypsum board on one side of metal studs. Tape all joints and intersections with existing walls, decks and ceilings to prevent the spread of dust. Extend dust-seal partitions from the floor through the suspended ceiling, to the underside of the floor deck above. At temporary walls that intersect existing finished walls, tape joint at the existing wall to seal the dust partition to the existing wall.

        - Fire-retardant polyethylene may be used only when approved by the Owner's Representative where above-ceiling conditions are confirmed to prelude construction of a gypsum board partition tight to the deck.

2. As directed by the Project Manager for dust partitions in prominent public view, include the following:

- Construct dust partition using vinyl covered gypsum board on the public side and install temporary vinyl base to match existing.

3. As directed by the Project Manager for dust partitions required to be fire rated, include the following:

   - Construct dust partition as a 1 hr. fire rated partition with rated door assemblies to maintain integrity of an existing rated partition. As deemed appropriate for each area and supporting Project Construction Risk Assessment. (PCRA)

   - Provide 3'-0" minimum width access door of solid core wood with metal frame and hardware, including closer and gasketed threshold, tightly weather stripped to prevent flow of dust. Swing door into construction area. Keep enclosure locked during working and non-working hours. Key into Hospitals system as indicated by Owner's Representative.

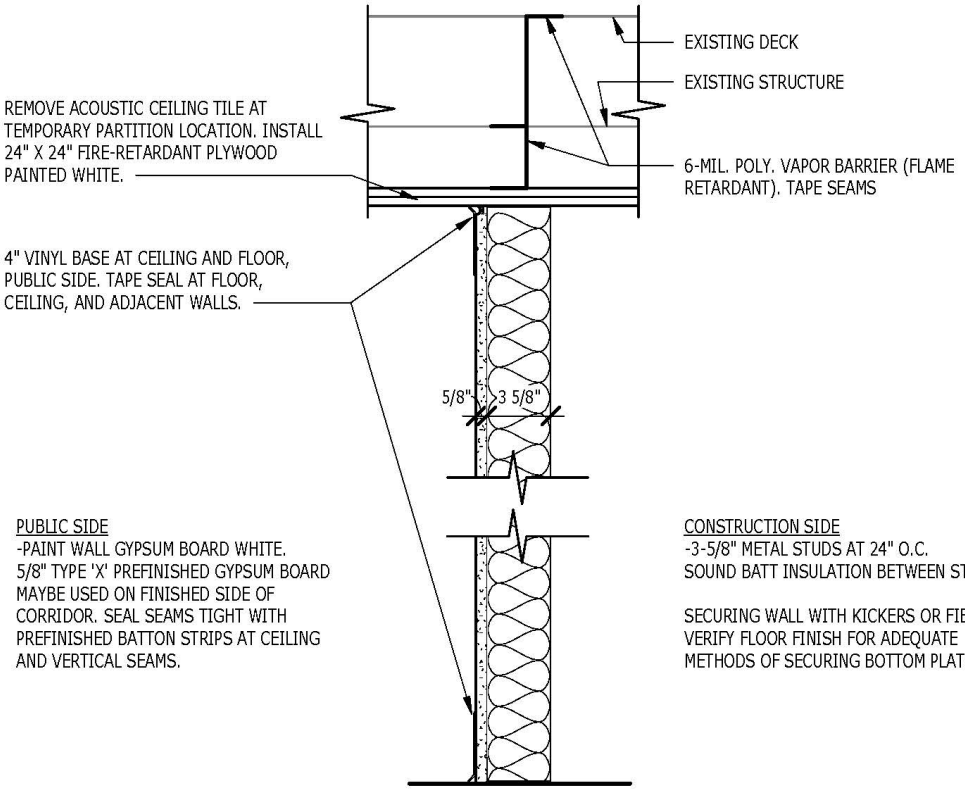
   - Maintain the integrity of dust-partition enclosures throughout the project. Verify penetrations and joints are continuously sealed. Keep all doors and windows closed. In the event of a breach of a dust partition enclosure, make immediately repairs and remediate dust and debris.

   - Periodically HEPA vacuum inside the dust-partition enclosure (or as otherwise directed in the ICRA/IICM) and provide and maintain contamination control mats outside each dust-seal enclosure entry. Continuously monitor and immediately clean up dust tracked from demolition and construction areas into occupied areas of the building. Wipe clean the wheels of transport carts and cover cart debris each time the cart exits the dust partitioned work zone.

   - Upon construction completion and after final cleaning, remove dust-seal enclosure material from work area and properly dispose of as debris. Minimize the spread of dirt and debris.

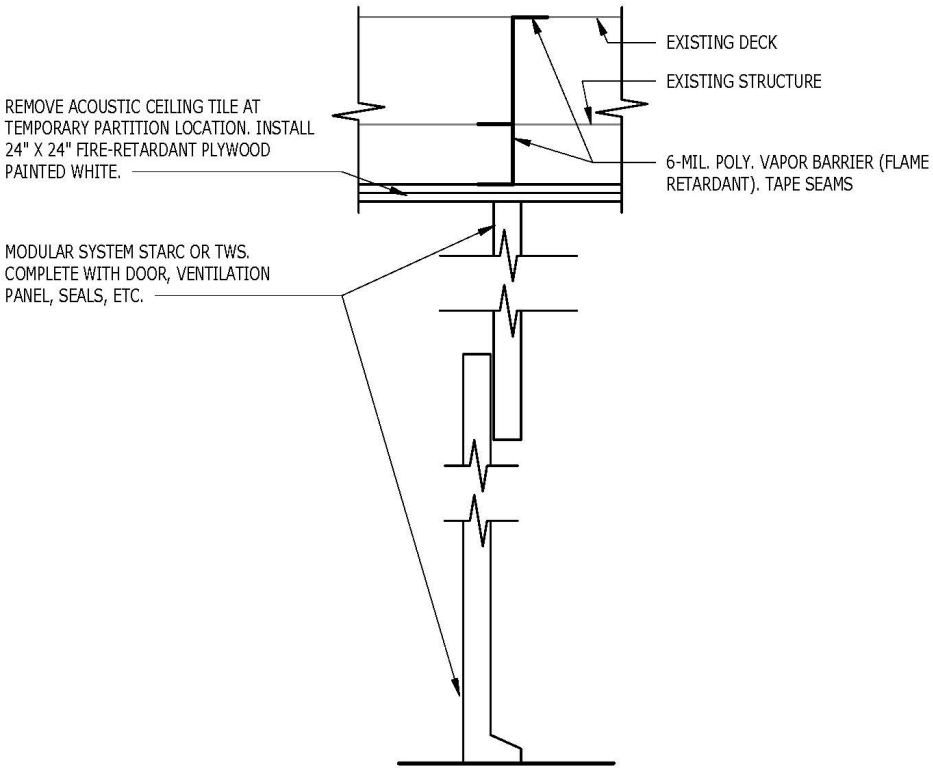
4. ICRM Equipment and Product Information, Approved Equipment and Product Information

- RIGID BARRIER SYSTEMS
    - Lightweight modular wall system that meets or exceeds ICRA Class IV and ASTM E84 requirements with a minimum of 1 inch insulated wall panels.
- Approved Manufacturers:
    - STARC Systems
    - Temporary Wall Systems (TWS)
    - RealWall for sound attenuating and noise control.
    - LiteBarrier sensitive patient occupied areas.
    - FireblockWall for One-hour Fire-rated containment.
    - Or approved equal.



TEMPORARY PARTITION NOTES:

1. PARTITIONS INSTALLED IN PUBLIC CORRIDORS SHALL NOT REDUCE THE CORRIDOR WIDTH TO LESS THAN 48". VERIFY LOCATION OF WALL PRIOR TO ERECTION WITH PROJECT MANAGER.
2. INSTALL 1-3/4" HOLLOW METAL DOOR WITH HOLLOW METAL KNOCK DOWN FRAME. NOTE: NO UNDERCUT OF DOOR WILL BE ALLOWED. DOOR SHALL HAVE A SWEEP AT BOTTOM AND SEAL AROUND ALL EDGES. PROVIDE 1-1/2" PR BUTTS MIN. WITH CONSTRUCTION CORE BY G.C. LOCKSET BY G.C. LOCK CORE FURNISHED BY HOSPITAL. COORDINATE.
3. PATIENT CONTROL SIGNAGE WILL BE FURNISHED BY THE HOSPITAL AND INSTALLED BY G.C.
4. PROVIDE TACK PAPER AND WALK OFF MAT ON BOTH SIDES OF DOOR. WALK OFF MAT TO BE MINIMUM CHANGED DAILY & INSPECTED BY INFECTION CONTROL.
5. G.C. RESPONSIBLE FOR ANY DAMAGE TO FLOOR, CEILING, OR ADJACENT WALLS.



TEMPORARY PARTITION NOTES:

1. PARTITIONS INSTALLED IN PUBLIC CORRIDORS SHALL NOT REDUCE THE CORRIDOR WIDTH TO LESS THAN 48". VERIFY LOCATION OF WALL PRIOR TO ERECTION WITH PROJECT MANAGER.
2. INSTALL CONSTRUCTION CORE BY G.C. LOCKSET BY G.C. LOCK CORE FURNISHED BY HOSPITAL IN MODULAR SYSTEM STARC OR TWS. COORDINATE.
3. PATIENT CONTROL SIGNAGE WILL BE FURNISHED BY THE HOSPITAL AND INSTALLED BY G.C.
4. PROVIDE TACK PAPER AND WALK OFF MAT ON BOTH SIDES OF DOOR. WALK OFF MAT TO BE MINIMUM CHANGED DAILY & INSPECTED BY INFECTION CONTROL.
5. G.C. RESPONSIBLE FOR ANY DAMAGE TO FLOOR, CEILING, OR ADJACENT WALLS.

TEMP. CONSTRUCTION PARTITIONS / CONTAINMENT SYSTEM

CONTRACTOR TO PROVIDE ONE OF THE FOLLOWING AT EACH AREA OF WORK. CONTRACTOR MAY CHOOSE EITHER OF THE FOLLOWING OPTIONS:

MODULAR CONTAINMENT SYSTEM
THE BARRIER SHALL BE ACHIEVED UTILIZING A PRE-APPROVED MODULAR SYSTEM. THE SYSTEM SHALL BE COMPOSED OF FLOOR-TO-CEILING PARTITIONS OF NOT LESS THAN NOMINAL 1½" THICKNESS ALUMINUM FRAMING. SYSTEM JOINTS SHALL BE INTERLOCKING AND/OR SEALED. ALL CEILING, FLOOR AND WALL CONNECTIONS SHALL BE SEALED TO PREVENT THE MIGRATION OF DUST AND CONTAMINANTS FROM THE ACTIVITY AREA INTO ADJACENT OCCUPIED AREA(S). THE PARTITIONS SHOULD HAVE SOUND ISOLATION PROPERTIES TO REDUCE THE TRANSFER OF SOUND TO OCCUPIED ADJACENT AREAS. THE BARRIER SHALL BE EQUIPPED WITH AN INTEGRATED AIR MANAGEMENT PANEL TO ACCEPT A NEGATIVE AIR EXHAUST DISCHARGE HOSE AND BE EQUIPPED WITH A MAGNAHELIC NEGATIVE AIR INDICATOR. THE BARRIER SHALL BE EQUIPPED WITH AN INTEGRATED DOOR PANEL. THE DOOR SHALL BE EQUIPPED WITH A COMMERCIAL GRADE LEVER HANDLE WITH A REMOVABLE KEY CORE. THE HARDWARE MUST BE POSITIVE LATCHING AND ACCEPT A BEST 7-PIN CORE, WHICH WILL BE PROVIDED AND INSTALLED BY UNIVERSITY OF MISSOURI HEALTHCARE. THE DOOR SHALL REMAIN CLOSED AND LOCKED.

RIGID SYSTEM
THE BARRIER SHALL EXTEND FROM THE FLOOR TO THE CEILING AND SHALL BE CONSTRUCTED UTILIZING 3-5/8" METAL STUDS AND 1/2" OR 5/8" GYPSUM BOARD ON THE CLEAN SIDE OF THE STUDS. THE METAL STUDS SHALL BE PLACED AT NO LESS THAN 16" AND NO MORE THAN 24" O.C. THE SEAMS AND JOINTS ON THE GYPSUM BOARD MUST BE SEALED WITH AN APPROVED TAPE OR WITH JOINT COMPOUND/TAPE. THE BARRIER SHALL BE ADEQUATELY SEALED AND MAINTAINED AT THE FLOOR AND CEILING CONNECTIONS THROUGHOUT THE PROJECT TO PREVENT THE MIGRATION OF DUST FROM THE WORK AREA INTO ADJACENT OCCUPIED AREAS. AIR FILTRATION EQUIPMENT EXHAUST/VENT HOSE MAY PASS THROUGH THE UPPER PORTION OF THE BARRIER. THE PENETRATION/OPENING FOR THE EXHAUST/VENT HOSE SHALL BE ADEQUATELY SEALED AND MAINTAINED THROUGHOUT THE PROJECT. A MAGNETIC NEGATIVE AIR INDICATOR SHALL BE INSTALLED ON THE BARRIER. THE BARRIER SHALL BE EQUIPPED WITH A DOOR/FRAME ASSEMBLY. THE ASSEMBLY IS NOT REQUIRED TO BE FIRE-RATED, HOWEVER, MUST BE HINGED SWING-TYPE, A MINIMUM WIDTH OF 36" AND BE SOLID WOOD OR METAL CLAD WITH A METAL FRAME. THE DOOR SHALL BE EQUIPPED WITH A COMMERCIAL GRADE LEVER HANDLE WITH A REMOVABLE KEY CORE. THE HARDWARE MUST BE POSITIVE LATCHING AND ACCEPT A BEST 7-PIN CORE, WHICH WILL BE PROVIDED AND INSTALLED BY THE UNIVERSITY OF MISSOURI HEALTHCARE. A DOOR SWEEP MAY BE REQUIRED. THE BARRIER DOOR SHALL REMAIN CLOSED AND LOCKED DURING THE WORK PERIOD.

IC Notes for Mechanical Drawings

1. The Mechanical Engineering Consultant is responsible to include the following additional Infection Control notation on Mechanical Drawings of the Contract Documents:

    - All air duct covers, and HVAC equipment seals are to remain intact throughout dust generating construction. Immediately notify Owner's Representative of any observed penetrations in the dust covers or breaks in HVAC equipment seals.

- Seal all HVAC return inlets in work areas with plastic sheeting and tape to prevent contaminants from entering the building's air system. Any existing return and exhaust air systems that must be cut and capped shall be capped outside of the construction area.

- Coordinate with Owner's Representative before using existing HVAC supply air systems for temporary heating and cooling. In no case shall supply air fans serving occupied areas of the building be shut down without Owner's written approval. Openings in ductwork remaining within the construction area shall be sealed. Measures for maintaining proper building pressurization in all areas during construction shall be included in design.

- HVAC systems designated with particle filters shall not be operated without filters in place. Temporary filters must have the same filtration as the permanent filters.

END OF SECTION