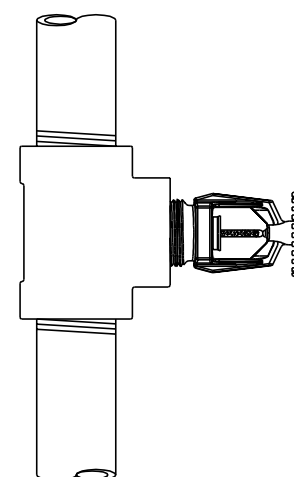
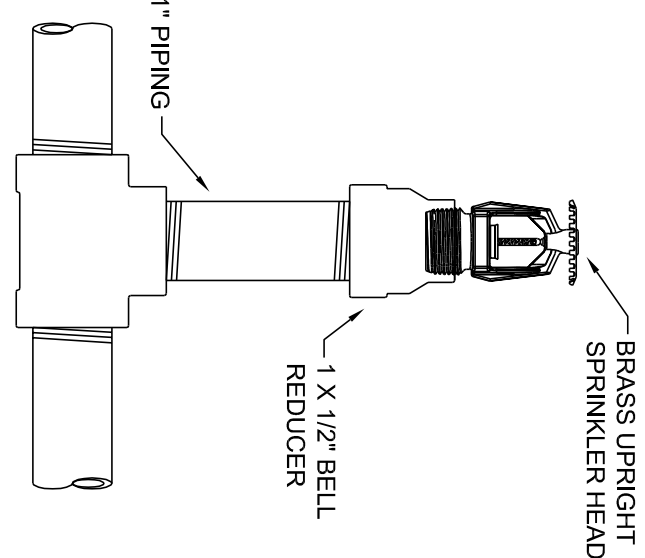


1 CENTER LINE OF TILE DETAIL  
SCALE: NONE

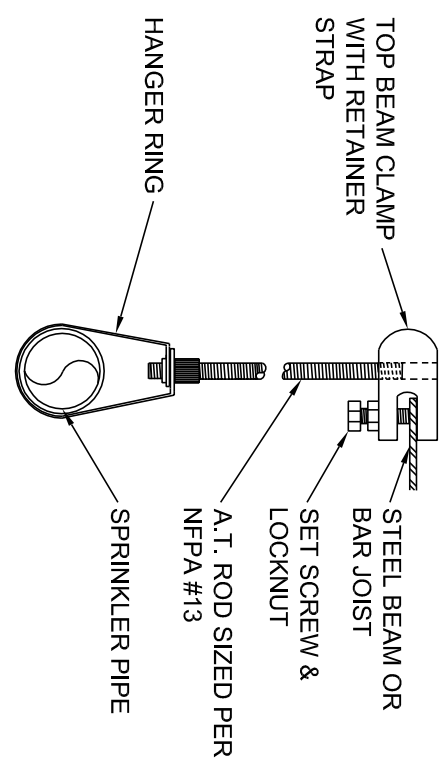
2 CENTER LINE OF TILE DETAIL  
SCALE: NONE

3 RETURN BEND DETAIL  
SCALE: NONE



4 UPRIGHT SPRINKLER HEAD ON SPRIG DETAIL  
SCALE: NONE

5 UPRIGHT SPRINKLER HEAD DETAIL  
SCALE: NONE



6 TOP BEAM CLAMP HANGER DETAIL  
SCALE: NONE

### FIRE PROTECTION GENERAL NOTES:

- THE SUCCESSFUL FIRE PROTECTION CONTRACTOR SHALL PROVIDE THE ENGINEER OF RECORD WITH A PRELIMINARY PUNCH LIST AND DRAWING PRIOR TO COMPLETION OF CONSTRUCTION. ALL ITEMS NOTED SHALL BE ADDRESSED BY THE CONTRACTOR PRIOR TO REQUESTING FORNHS USE BY THE ENGINEER OF RECORD.
- ALL PIPE, DEVICES, AND INSTALLATION SHALL FULLY COMPLY WITH NFPA 13 AND ALL REQUIRED AUTHORITIES HAVING JURISDICTION.
- REFER TO NOTES ON DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. REFER TO STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR BUILDING DETAILS.
- REFER TO ARCHITECTURAL DRAWINGS FOR GENERAL RENOVATION ITEMS SUCH AS CEILINGS, WALLS AND AREAS OF WORK.
- PROVIDE MODIFICATIONS TO THE EXISTING FIRE SPRINKLER SYSTEMS TO ACCOMMODATE RENOVATIONS TO THE SPACE. PROVIDE NEW SPRINKLER HEADS, PIPES, FITTINGS, HANGERS AND APPURTENANCES AS REQUIRED. FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR SHUTTING THE AREA OF WORK TO DETERMINE THE SCOPE OF DEMOLITION WORK REQUIRED.
- SPRINKLER COVERAGE SHALL NOT EXCEED 225 SQUARE FEET PER HEAD FOR LIGHT HAZARD AREAS. SPRINKLER COVERAGE SHALL NOT EXCEED 130 SQUARE FEET PER HEAD FOR ORDINARY HAZARD AREAS.
- FIRE PROTECTION SYSTEMS, PIPING, VALVES, AND APPURTENANCES INDICATED ON THE DRAWINGS ARE DIAGNOSTIC ONLY. IN THAT ALL FITTINGS AND OFFSETS MAY NOT BE SHOWN, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY EQUIPMENT SELECTIONS, PIPE ROUTING ETC. FOR CODE COMPLIANCE, MECHANICAL COMPLIANCE, AND PLUMBING (M.E.P.) CONDITIONS. EXISTING OR PLANNED PRIOR TO BID, THERE IS VERY LIMITED SPACE AVAILABLE FOR PIPE ROUTING.
- FIRE PROTECTION SHOP DRAWINGS SHALL INCLUDE COMPLETE REFLECTED CEILING PLANS INDICATING LOCATION OF EACH SPRINKLER HEAD, AS WELL AS PIPING LAYOUTS.
- PROVIDE ADDITIONAL SPRINKLER HEADS (OVER CODE MINIMUM QUANTITIES) IF REQUESTED BY ARCHITECT, TO OBTAIN SYMMETRICAL CEILING LAYOUTS.
- PIPE SIZING SHALL BE ESTABLISHED BY THE FIRE PROTECTION CONTRACTOR.
- GENERAL CONTRACTOR SHALL CONDUCT A COORDINATION MEETING WITH SUBCONTRACTORS TO ESTABLISH CLEARANCE REQUIREMENTS NEEDED FOR M.E.P. WORK PRIOR TO FABRICATION OF SPRINKLER SYSTEM. ANY RELOCATION OF FIRE SPRINKLER SYSTEM REQUIRED FOR PROPER INSTALLATION OF M.E.P. SYSTEMS SHALL BE AT THE FIRE PROTECTION CONTRACTOR'S EXPENSE.
- FIRE PROTECTION CONTRACTOR SHALL BASE BID ON CAREFUL COORDINATION OF EXISTING AND NEW MECHANICAL, DUCT, MECHANICAL AND PLUMBING PIPING, ELECTRICAL, AND STRUCTURAL SYSTEMS IN THE BUILDING.
- HYDRAULIC CALCULATIONS SHALL BE BASED ON A WATER FLOW TEST OBTAINED FROM THE CITY OF MEMPHIS BY THE FIRE PROTECTION CONTRACTOR. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS, PROVIDE A MINIMUM OF 10 PSI SAFETY FACTOR FOR ALL HYDRAULIC CALCULATIONS. PIPE SIZING SHALL BE ESTABLISHED BY THE FIRE PROTECTION CONTRACTOR. NOTE: AVOID SYSTEM PRESSURES EXCEEDING 175 PSI.
- AFTER THE RENOVATIONS ARE COMPLETE, THE FIRE PROTECTION CONTRACTOR IS REQUIRED TO PERFORM A FHEMATITC TEST ON THE SPRINKLER SYSTEM. THE TEST SHALL BE CONDUCTED BY A QUALIFIED PERSONNEL. THE TEST SHALL BE CONDUCTED AT A PRESSURE OF 250 PSI FOR 2 HOURS AS PER NFPA 13 WITH NO VISIBLE LEAKAGE. THE CONTRACTOR SHALL COORDINATE THESE ACTIVITIES WITH THE OWNER. THE CONTRACTOR SHALL MAKE EVERY ATTEMPT TO PERFORM HIS WORK AS EXPEDITIOUSLY AS POSSIBLE IN ORDER TO MINIMIZE THE LENGTH OF TIME THE SYSTEMS SHUT DOWN.
- FIRE PROTECTION SYSTEM SHALL INTERFACE WITH THE BUILDING FIRE ALARM SYSTEM. REFER TO ELECTRICAL.
- ALL CONTROL VALVES SHALL HAVE ELECTRONIC SUPERVISION.
- SPECIAL CONSIDERATION SHALL BE GIVEN TO AREAS THROUGHOUT THE RENOVATED AREA SUCH AS PROPER SORTITS, BASED CEILINGS AND LIGHTING SORTITS THAT NECESSITATE ADDITIONAL SPRINKLER HEADS. REFER TO ARCHITECTURAL DRAWINGS FOR REFLECTED CEILING PLANS AND BUILDING DETAILS.
- ALL NEW SPRINKLER HEADS FOR LIGHT HAZARD AND ALL STANDAR SPRAY SPRINKLER HEADS FOR ORDINARY HAZARD SHALL BE QUICK RESPONSE.
- ALL NEW CEILING MOUNTED SPRINKLER HEADS SHALL BE CHROME WITH CHROME RECESSED ESCUTCHEONS, UNLESS NOTED OTHERWISE ON FIRE PROTECTION PLANS OR SPECIFICATIONS.
- ALL NEW SPRINKLER HEADS INSTALLED IN EXPOSED STRUCTURE SHALL BE BRASS UPRIGHT, UNLESS NOTED OTHERWISE ON FIRE PROTECTION PLANS OR SPECIFICATIONS.
- ALL CEILING MOUNTED SPRINKLER HEADS SHALL BE LOCATED IN THE CENTER OF CEILING TILES.
- PROVIDE AUXILIARY DRAINS FOR ALL TRAPPED PIPING SECTIONS IN ACCORDANCE WITH NFPA 13.
- INSTALL PIPING HORIZONTALLY AND AT RIGHT ANGLES TO WALLS AND CEILINGS.
- ALL NEW GROOVED PIPING SHALL BE BLACK SCHEDULE 40 OR BLACK SCHEDULE 40 WITH GROOVED AND WELDED OUTLETS, UNLESS NOTED OTHERWISE. FITTINGS AND COUPLINGS SHALL BE STANDARD 9000000.
- ALL NEW THREADED PIPING SHALL BE BLACK SCHEDULE 40, UNLESS NOTED OTHERWISE. FITTINGS SHALL BE STANDARD BLACK GRADE.
- ALTERNATIVE STEEL PIPE SCHEDULES ALLOWED BY NFPA 13 ARE NOT ACCEPTABLE ON THIS PROJECT.
- CHIC PIPING IS NOT ALLOWED ON THIS PROJECT.
- FIRE PROTECTION CONTRACTOR SHALL PROVIDE PROTECTION FOR SPRINKLER HEADS IN AREAS WHERE THE CEILING AND SURROUNDING AREAS ARE TO BE PAINTED. FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF SPRINKLER PROTECTION AFTER PAINTING WORK IS COMPLETE. ANY SPRINKLER HEAD WITH PAINT OR TEXTURE OVERSPRAY SHALL BE REPLACED BY THE FIRE PROTECTION CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
- PROVIDE ACCESS PANELS WHERE NECESSARY TO ACCESS FIRE PROTECTION VALVES AND EQUIPMENT FOR TESTING, MAINTENANCE, INSPECTION OR DRAINAGE. ACCESS PANELS SHALL BE RATED TO MATCH THE WALL OR CEILING IN WHICH THEY ARE INSTALLED AND TO BE OF SUFFICIENT SIZE TO FACILITATE WORK, REPAIR OR REPLACEMENT. ACCESS PANELS SHALL BE PROVIDED BY THE PROTECTION CONTRACTOR.
- PROVIDE HEAD GUARDS ON ALL SPRINKLER HEADS AT OR BELOW AN ELEVATION OF 7'-0\"/>
- RENOVATED AREAS TO BRING THESE AREAS INTO COMPLIANCE WITH NFPA SPACING RULES FOR THE GIVEN OCCUPANCY HAZARDS.
- IF NEW WALL LOCATIONS CREATE A SITUATION OF OVER SPACING FOR THE ADJACENT EXISTING NONRENOVATED AREAS, RENOVK EXISTING SPRINKLER COVERAGE IN NON-RENOVATED AREAS.
- EXISTING PIPE SIZES (AS PER NUMBER OF SPRINKLER HEADS SUPPLIED PER PIPE SIZE) SHALL NOT BE EXCEEDED. NO MORE THAN ONE (1) SPRINKLER HEAD SHALL BE SUPPLIED FROM AN EXISTING 1/2\"/>
- REPAIR ALL HOLES IN WALLS, FLOORS, AND CEILINGS AND MAINTAIN REQUIRED FIRE RATING OF WALL AND CEILINGS.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOSPITAL'S INFECTIOUS CONTROL, RISK GUIDELINES AND/OR INTERIM LIFE SAFETY MEASURES. ALL WORK SHALL BE IN ACCORDANCE WITH OSHA (OCCUPATIONAL SAFETY AND HEALTH) ADMINISTRATION).
- FIRE PROTECTION PLANS SHALL BE SUBMITTED TO ALL REQUIRED LOCAL AND STATE AUTHORITIES AS WELL AS THE ARCHITECT AND ENGINEER OF RECORD.

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Revisions	Date	Location	MEMPHIS
		Date	10/18/17
		Checked	
		Drawn	TN
		Dwg 1	of 1

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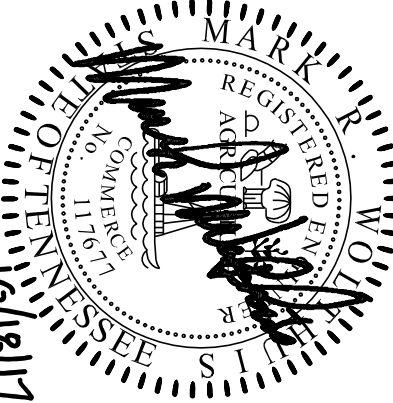
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DETAILS AND GENERAL NOTES -  
FIRE PROTECTION

Approved Project Director

VAPACHS PLANNING AND ENGINEERING

Project Title  
RENOVATE PHYSICAL  
MEDICINE AND  
REHABILITATION POOL AREA

Location  
MEMPHIS

Date  
10/18/17

Checked

Drawn  
TN

Project Number  
614-16-112

Building Number

Dwg 1

of 1

Office of  
Construction  
and Facilities  
Management