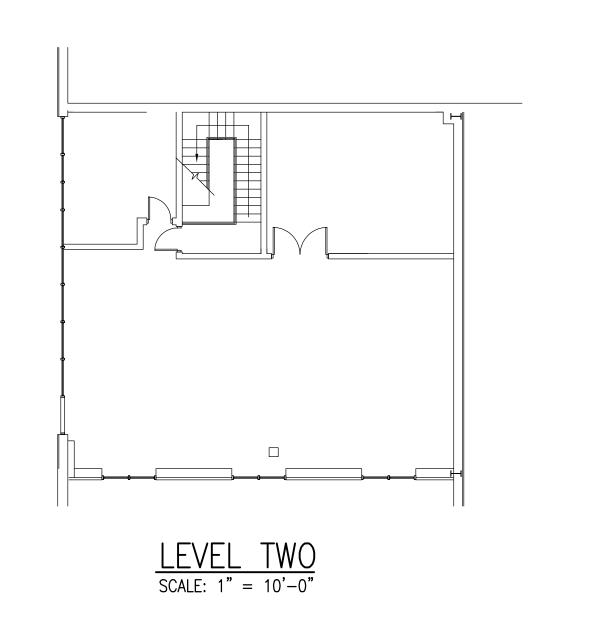
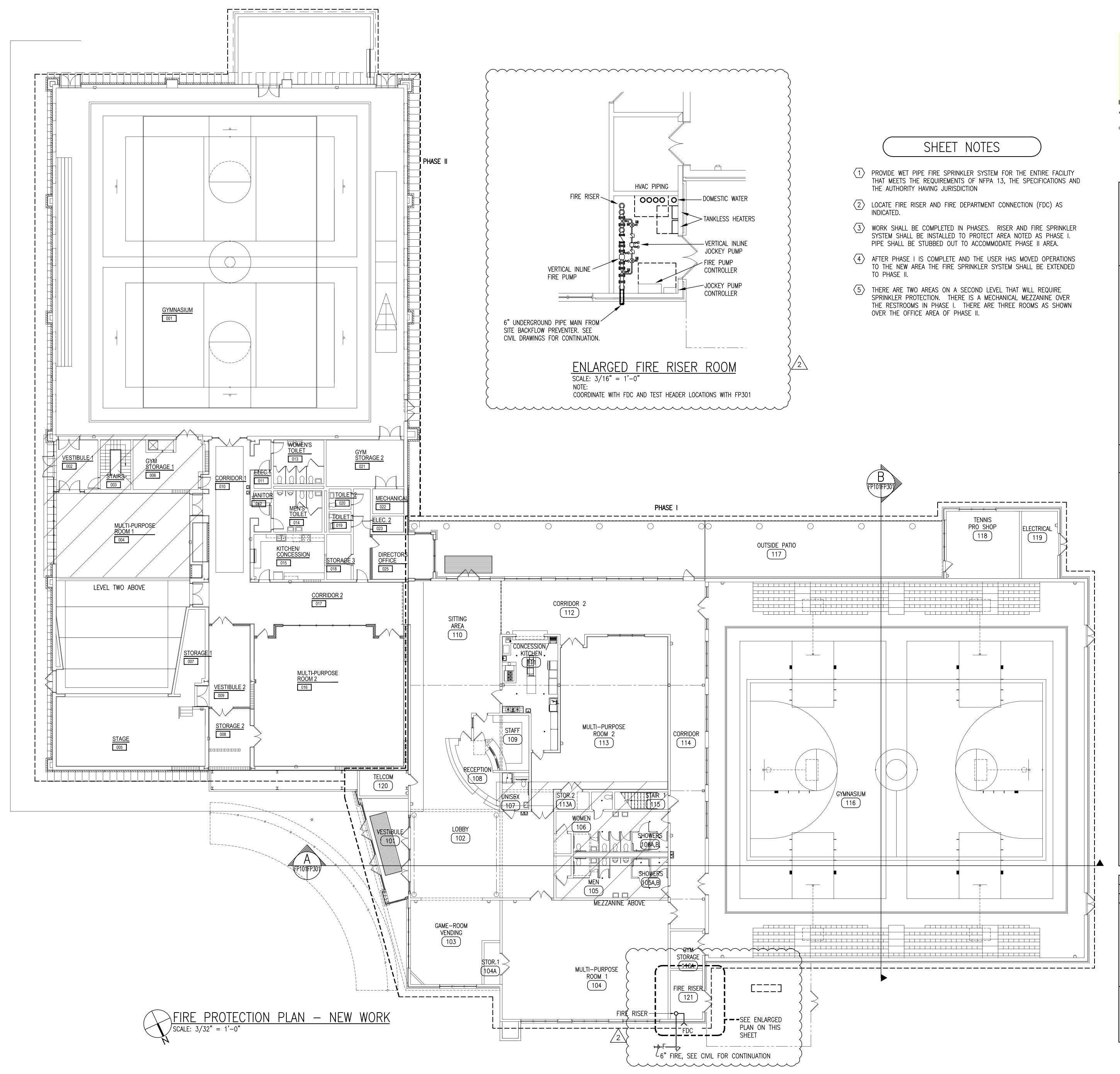
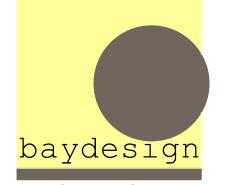


## MECHANICAL MEZZANINE LEVEL TWO SCALE: 1" = 10'-0"







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SEAL

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> ze community center FIRE PROTECTION PLAN - NEW WO

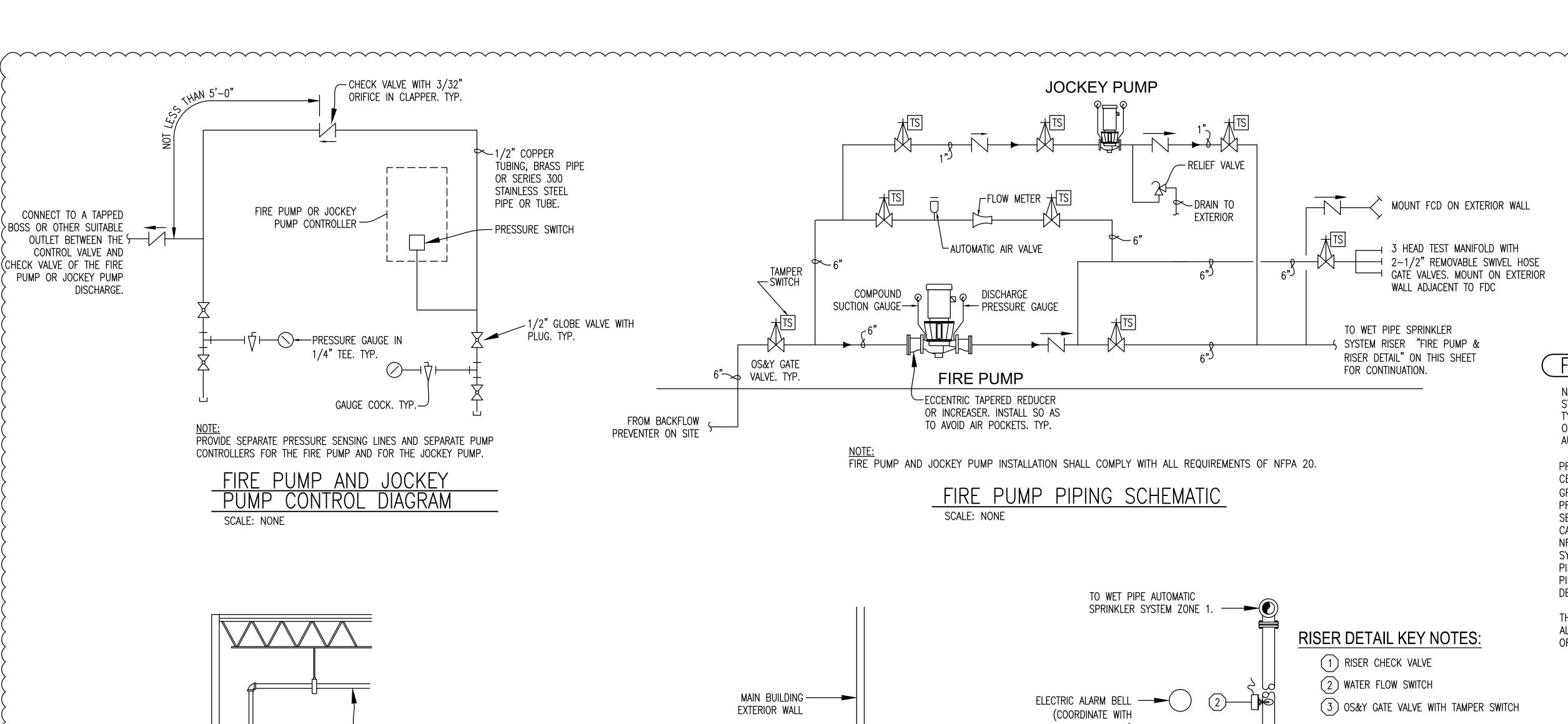
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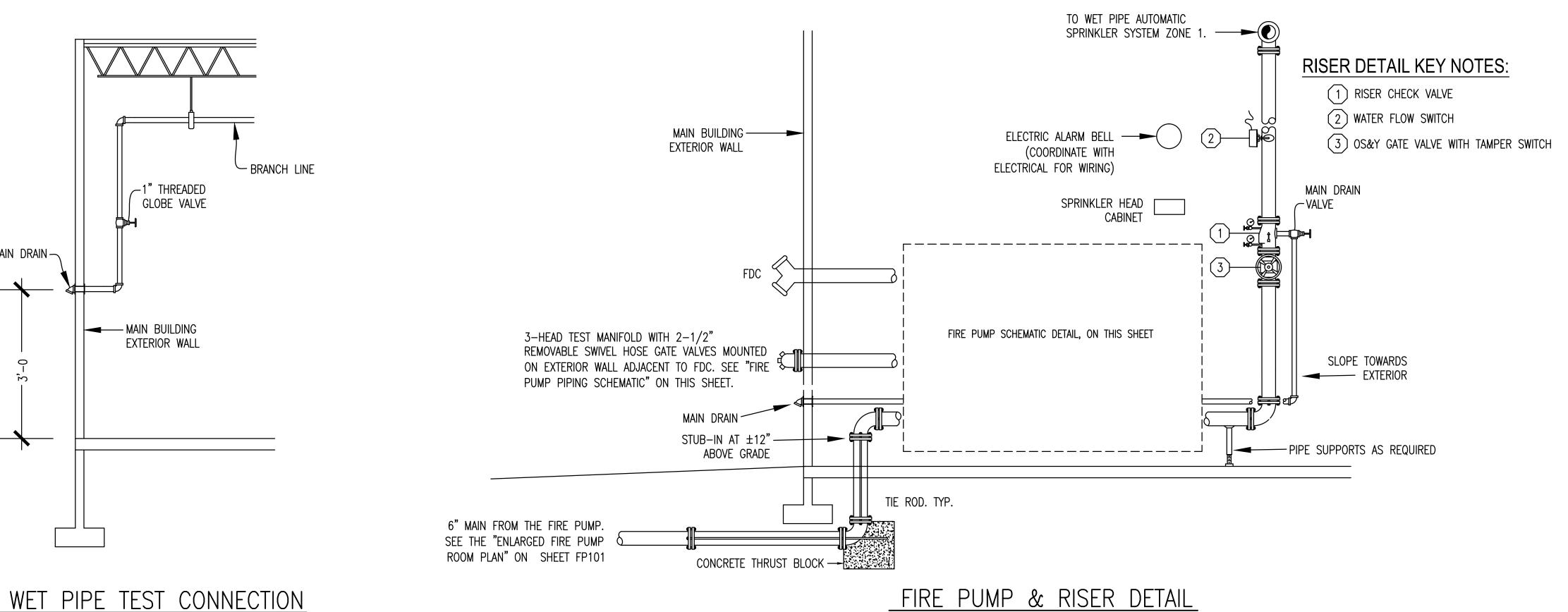
ADDENDUM #2

ADDENDUM #2 06/20/11

SHEET

FP101





LEGEND

AUTHORITY HAVING JURISDICTION

ABOVE FINISHED FLOOR FIRE DEPARTMENT SIAMESE CONNECTION

GALLONS PER MINUTE

DIAMETER

GPM

OUTSIDE SCREW AND YOKE POST INDICATOR VALVE POUNDS PER SQUARE INCH

FLOW SWITCH

SQUARE FOOT SQ. FT. -

TAMPER SWITCH

## FIRE PROTECTION DESIGN CRITERIA

NAME OF FACILITY: <u>GULF BREEZE COMMUNITY CENTER</u>
STREET ADDRESS: <u>800 SHORELINE DR, 32561</u>
TYPE OF CONSTRUCTION: <u>NONCOMBUSTIBLE</u> OWNER: CITY OF GULF BREEZE AUTHORITY HAVING JURISDICTION: GULF BREEZE FIRE DEPARTMENT

PROVIDE A WET PIPE SPRINKLER SYSTEM FOR THE ENTIRE COMMUNITY THE FIRE PUMP ROOM SHALL BE RATED ORDINARY HAZARD GROUP 1 DENSITY = 0.15 GPM/SF. THE SPRINKLER SYSTEM SHALL PROVIDE FIRE PROTECTION FOR THE ENTIRE AREA INDICATED IN THIS SET OF PLANS. THE SPRINKLER SYSTEM SHALL BE DESIGNED CALCULATED, AND INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH NFPA 13. THE CONTRACTOR SHALL DESIGN ALL PORTIONS OF THE SYSTEM, INCLUDING PIPING AND EQUIPMENT LAYOUT, AND SIZING THE PIPING AND EQUIPMENT WHEN IT IS NOT PROVIDED ON THE DRAWINGS PIPE SIZES WHICH ARE NOT INDICATED ON THE DRAWINGS, SHALL BE DETERMINED BY HYDRAULIC CALCULATION.

THE SYSTEM SHALL BE HYDRAULICALLY DESIGNED WITH A HOSE STREAM ALLOWANCE OF 100 GPM FOR LIGHT HAZARD AREAS AND 250 GPM FOR ORDINARY HAZARD AREAS WITH DENSITY VALUES AS FOLLOWS:

- 1. LIGHT HAZARD DENSITY = 0.10 GPM/SF OVER THE MOST DEMANDING 1500 SQ. FT. WITH 225 SQ. FT. MAX
- SPACING BETWEEN SPRINKLERS. (EXTENDED COVERAGE HEADS ARE ACCEPTABLE WHERE WATER SUPPLY ALLOWS)
- 3. ORDINARY HAZARD GROUP 1 DENSITY = 0.15 GPM/SF WITH 130 SF MAX SPACING BETWEEN SPRINKLERS.

THE DESIGN OF THE SPRINKLER SYSTEM SHALL BE BASED UPON WATER SUPPLY INFORMATION OBTAINED BY THE SPRINKLER CONTRACTOR AND WITNESSED BY THE AUTHORITY HAVING JURISDICTION. THE FLOW TEST WAS PERFORMED FOR INFORMATIONAL PURPOSES ONLY AND THE CONTRACTOR SHALL PERFORM A SEPARATE FLOW TEST PRIOR TO HYDRAULIC DESIGN OR INSTALLATION OF THE FIRE SPRINKLER SYSTEM

PRELIMINARY CALCULATIONS INDICATE THAT THE REQUIRED PRESSURE FOR SYSTEM OPERATION WILL REQUIRE AN APPROXIMATE 25 HP FIRE PUMP TO MAINTAIN THE MINIMUM PRESSURE WITH A 3/4" HP INLINE JOCKEY PUMP FOR SYSTEM PRESSURE MAINTENANCE. FIRE PROTECTION CONTRACTOR SHALL FURNISH SERVICE ENTRANCE RATED UL FIRE PUMP AND JOCKEY PUMP CONTROLLER. THE FIRE PROTECTION CONTRACTOR SHALL VERIFY THIS PUMP SIZE PRIOR TO PIPING DESIGN. SEE ELECTRICAL FOR PUMP FIRE ALARM SYSTEM INTERLOCK REQUIREMENTS. FIRE PUMP: VERTICAL IN-LINE FIRE PUMPS ARE ACCEPTABLE FOR USE IN THIS FACILITY.

## PRELIMINARY FIRE FLOW TEST DATA

STATIC PRESSURE: <u>53 PSI</u> \* RESIDUAL PRESSURE: 30 PSI\* WATER FLOW: 1000 GPM \* SIZE OF MAIN: 8 INCH

FLOW TEST PROVIDED FOR INFORMATION ONLY

SOURCE OF WATER SUPPLY: CITY OF GULF BREEZE

\* - CURRENT FLOW TEST DATA IS PRELIMINARY. A NEW FLOW TEST SHALL BE PERFORMED BY SPRINKLER CONTRACTOR FOR DESIGN.

- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ACCURATE WATER SUPPLY PRESSURE AND FLOW DATA AND DESIGN SPRINKLER SYSTEMS ACCORDINGLY.
- THE BUILDING SHALL BE FULLY SPRINKLERED IN ACCORDANCE WITH THE MOST RECENT EDITION OF
- MAINTAIN THE INTEGRITY OF ALL FIRE RATED ASSEMBLIES AND ACOUSTICAL ASSEMBLIES.

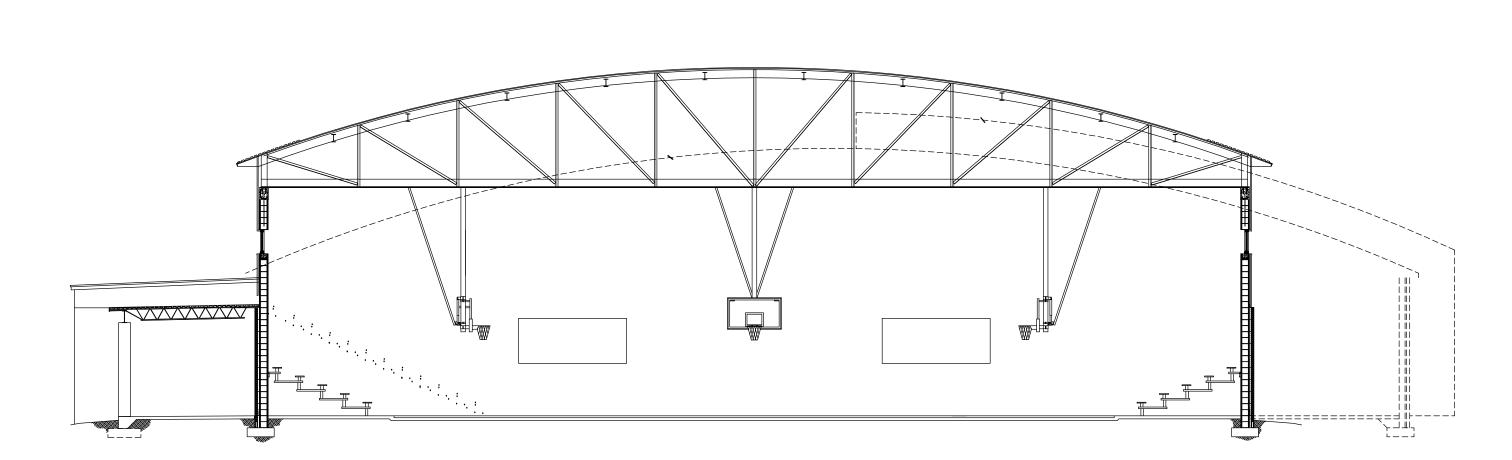
NFPA 13 AND LOCAL CODES.

- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING SYSTEM DESIGN WITH ALL APPLICABLE TRADES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING INSPECTOR'S TEST LOCATIONS IN ACCORDANCE WITH NFPA 13 AND THE AUTHORITY HAVING JURISDICTION.
- SPRINKLER HEADS SHALL BE OF THE ORDINARY TEMPERATURE RATINGS FOR ALL LIGHT HAZARD AREAS AND OF THE INTERMEDIATE TEMPERATURE RATINGS FOR ALL ORDINARY HAZARD AREAS. PROVIDE SEMI-RECESSED TYPE SPRINKLER HEADS IN ALL CEILINGS.
- 7. ALL PIPING SHALL OBSERVE PROPER PITCH. LOW POINTS SHALL HAVE DRAINS AS REQUIRED
- 8. THE SPRINKLER SYSTEM SHALL BE ARRANGED FOR FLUSHING. READILY REMOVABLE FITTINGS SHALL BE PROVIDED AT THE END OF ALL CROSSMAINS.
- PIPE HANGERS SHALL BE INSTALLED AS REQUIRED BY NFPA FOR SUPPORTING SPRINKLER PIPING. NO OTHER PIPING OR DEVICES SHALL BE ATTACHED TO THE SPRINKLER HANGER SYSTEM UNLESS THE HANGER HAS BEEN SPECIFICALLY DESIGNED TO CARRY THE ADDITIONAL LOAD.
- 10. ALL UNDERGROUND PIPING SHALL BE DUCTILE IRON WITH FITTINGS AND JOINTS PER NFPA 13. TEFLON TAPE SHALL BE ADDED TO ALL MALE THREADS OF PIPE AS A JOINING COMPOUND.
- 11. ALL SPRINKLER RISER PIPE SHALL BE SCHEDULE 10 BLACK WITH BLACK CAST/MALLEABLE IRON FITTINGS WITH JOINTS PER NFPA 13.
- 12. ALL ABOVE GROUND WET SYSTEM SPRINKLER PIPE THAT IS THREADED SHALL BE SCHEDULE 40 BLACK WITH BLACK CAST/MALEABLE IRON FITTINGS WITH JOINTS PER NFPA 13. TEFLON TAPE SHALL BE ADDED TO ALL MALE THREADS OF PIPE AS A JOINING COMPOUND. LIGHTWALL STEEL IS NOT ACCEPTABLE.
- 13. ALL ABOVE GROUND WET SYSTEM SPRINKLER PIPE THAT IS WELDED OR ROLL-GROOVED SHALL BE SCHEDULE 10 BLACK WITH BLACK CAST/MALEABLE IRON FITTINGS WITH JOINTS PER NFPA 13. LIGHTWALL STEEL IS NOT ACCEPTABLE.
- 14. THE CONTRACTOR SHALL UTILIZE A GRIDDED (OR LOOPED) PIPING DESIGN WHEREVER POSSIBLE TO MINIMIZE THE PIPING PRESSURE DROP.
- 15. INSTALL SPRINKLER HEADS CENTER OF TILE IN ACOUSTICAL CEILINGS. HEAD LOCATIONS SHALL BE GUIDED BY ARCHITECTURAL ELEMENTS FOR OTHER CEILING TYPES.
- 16. DO NOT LOCATE INSPECTORS TEST LOCATIONS OR DRAINS IN OFFICES OR OTHER FINISHED SPACES. INDICATE ALL LOCATIONS ON SHOP DRAWINGS.

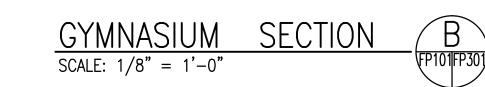
MECHANICAL MEZZANINE LEVEL TWO 

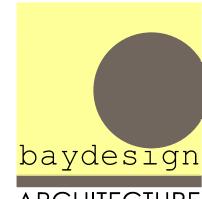
MAIN DRAIN-

SCALE: NONE









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ROTE

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PROJECT NO: 2413 FILE NO: DATE: 06.01.2011 ADDENDUM #2 06/20/11

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