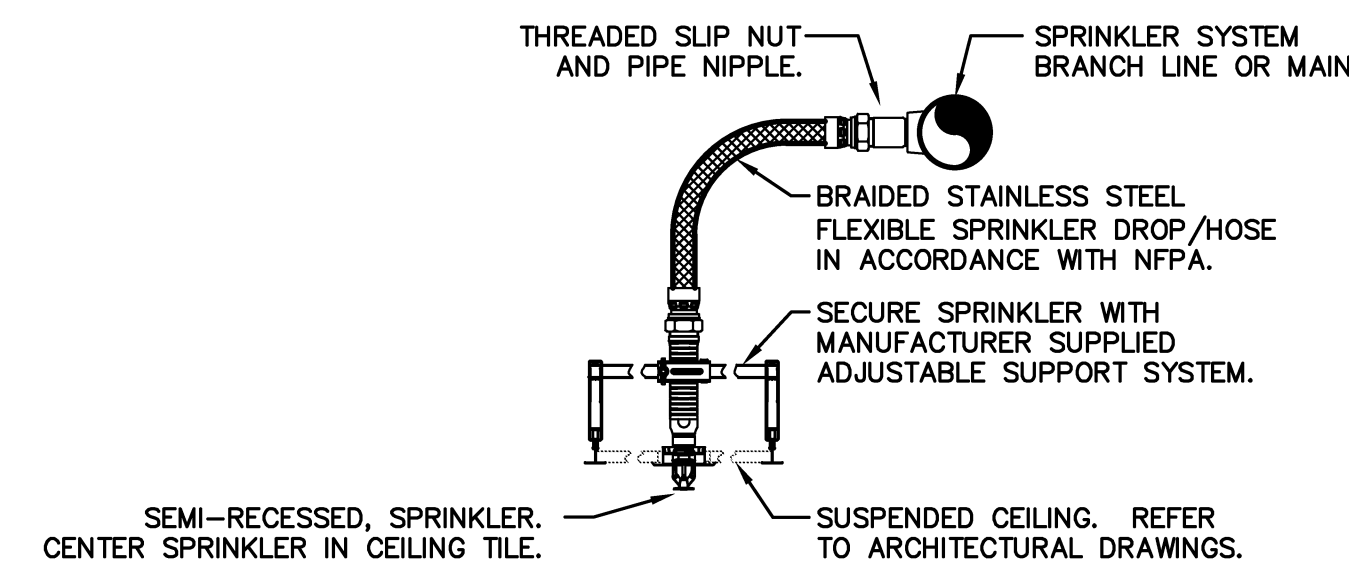


1 EXISTING FIRE RISER DIAGRAM
 NO SCALE

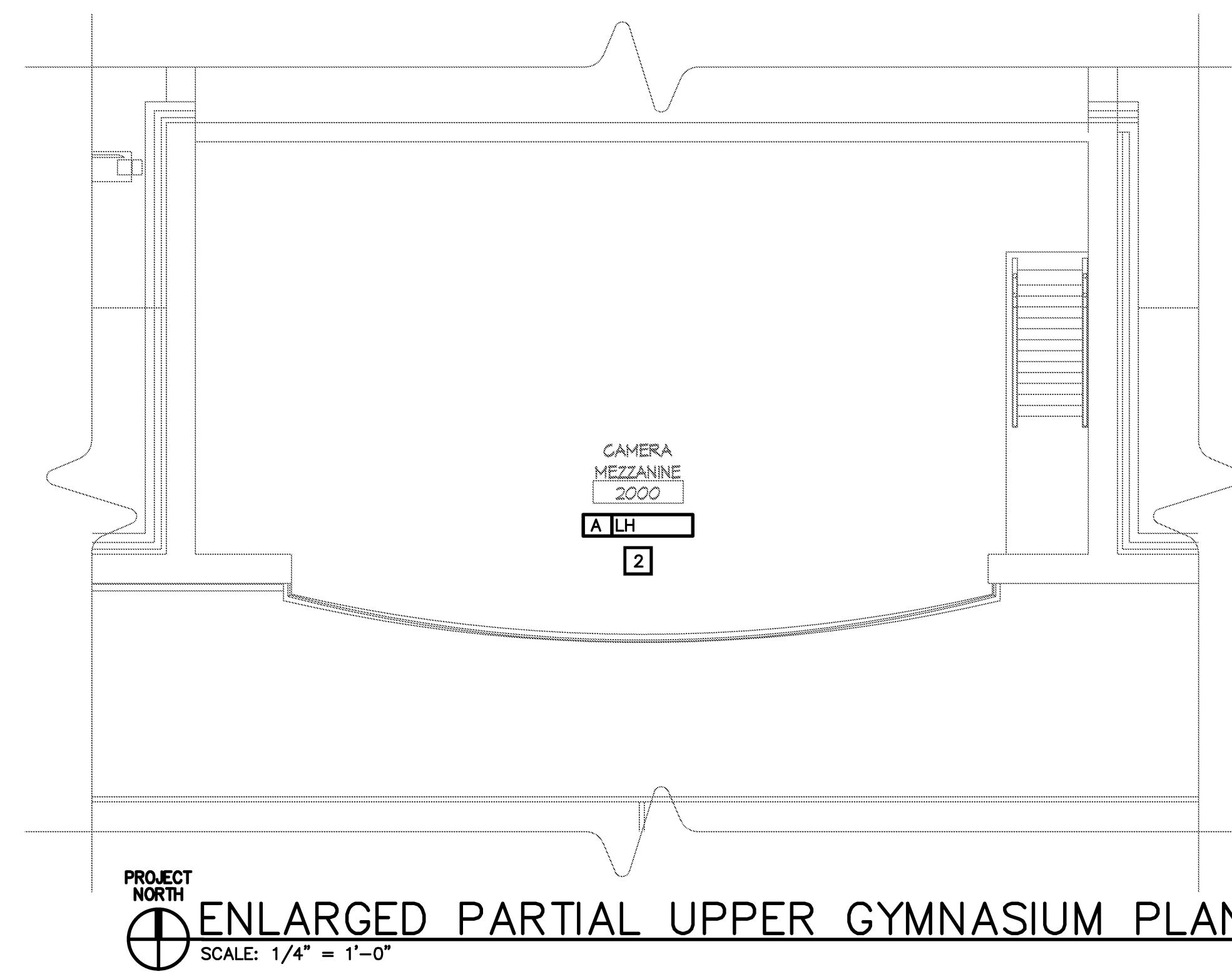
FIRE PROTECTION LEGEND	
SYMBOL	DESCRIPTION
FS	FIRE SPRINKLER PIPING
FM	FIRE PROTECTION MAIN
FW	FIRE WATER SERVICE
(Symbol)	GATE VALVE
(Symbol)	OS&Y VALVE W/ TAMPER SWITCH
(Symbol)	PIPE REDUCER
(Symbol)	CHECK VALVE
(Symbol)	FLOW SWITCH
(Symbol)	PRESSURE GAUGE

SPRINKLER SYSTEM LEGEND	
SYMBOL	DESCRIPTION
(Symbol)	SPRINKLER WORK DESCRIPTION
(Symbol)	MINIMUM CLASSIFICATION OF OCCUPANCY
(Symbol)	OCCUPIED SPACE SPRINKLER
TAG	DESCRIPTION
A	SEMI-RECESSED PENDANT SPRINKLERS REQUIRED
B	UPRIGHT SPRINKLERS REQUIRED
C	SEMI-RECESSED SIDEWALL SPRINKLERS REQUIRED
LH	LIGHT HAZARD OCCUPANCY
OH GR 1	ORDINARY HAZARD GROUP 1 OCCUPANCY

NOTES:
 1. THE FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING ALL NECESSARY ADDITIONAL FIRE PROTECTION SPRINKLERS TO PROVIDE 100% COVERAGE PER NFPA 13.
 2. REFER TO ARCHITECTURAL CEILING PLANS. CONTRACTOR SHALL INSTALL ADDITIONAL HEADS AS REQUIRED TO AVOID SPRAY OBSTRUCTIONS.



SEISMIC SPRINKLER DROP DETAIL
 NO SCALE



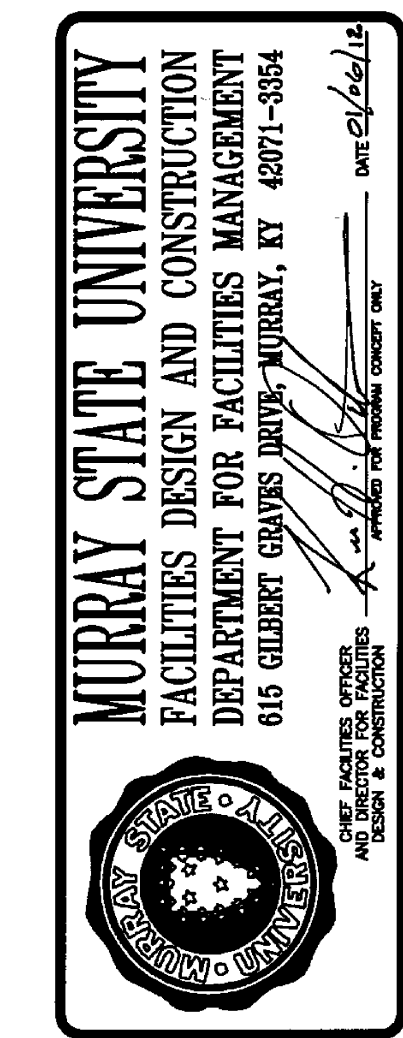
ENLARGED PARTIAL UPPER GYMNASIUM PLAN
 SCALE: 1/4" = 1'-0"

- ### FIRE PROTECTION NOTES
- EACH CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE PRIOR TO BIDDING IN ORDER TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS. ANY DISCREPANCIES OR QUESTIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE BID DATE.
 - ALL WORK SHALL BE IN ACCORDANCE WITH NFPA 13 "INSTALLATION OF SPRINKLER SYSTEMS"; THE KENTUCKY BUILDING CODE; AND ALL LOCAL BUILDING CODES/REQUIREMENTS.
 - WORK SHALL BE ACCEPTABLE TO THE LOCAL FIRE MARSHAL. CONTRACTOR IS RESPONSIBLE FOR CORRECTING ANY WORK TO RECEIVE INSPECTION APPROVAL.
 - THE CONTRACTOR SHALL OBTAIN, AT HIS EXPENSE, APPLICABLE PERMITS AND FEES.
 - WORK SHALL BE PERFORMED BY A LICENSED FIRE PROTECTION CONTRACTOR.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING FLOW TESTS, SYSTEM DESIGN, AND APPROVED SHOP DRAWINGS.
 - THE SYSTEM TYPE SHALL BE: AUTOMATIC WET PIPE, SEE DESIGN CRITERIA AND RISER DIAGRAM.
 - SPRINKLERS SHALL BE PENDANT, UPRIGHT, AND SIDEWALL. PENDANT AND SIDEWALL SPRINKLERS IN OCCUPIED SPACES SHALL BE SEMI-RECESSED, WHITE POWDER COATED. UPRIGHT SPRINKLERS SHALL BE BRONZE.
 - THE FIRE PROTECTION SYSTEM DESIGN SHALL BE BASED ON THE FOLLOWING OCCUPANCY CLASSIFICATIONS:
 SEE FIRE SUPPRESSION DESIGN CRITERIA
 - THESE PLANS ARE SCHEMATIC IN NATURE AND INDICATE THE APPROXIMATE AND GENERAL LOCATION OF THE WORK. CONTRACTOR SHALL INSTALL WORK THROUGH COORDINATION WITH OTHER TRADES AND TO SUIT FIELD CONDITIONS.
 - UNLESS OTHERWISE NOTED, ALL PIPING SHALL BE CONCEALED IN WALLS OR CEILINGS.
 - COORDINATE ENTIRE PIPING LAYOUT WITH ALL OTHER TRADES TO ENSURE PROPER INSTALLATION AND REQUIRED CLEARANCES.
 - VERIFY ALL DIMENSIONS BEFORE FABRICATION.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE THAT OCCURS TO EXISTING FACILITIES AND/OR NEW EQUIPMENT.
 - CONTRACTOR SHALL PATCH AND REPAIR ALL WALL, FLOOR, ROOF, AND CEILING PENETRATIONS MADE IN THE COURSE OF CONSTRUCTION. PENETRATIONS SHALL BE SLEEVED, FLASHED (IF NECESSARY), SEALED AIRTIGHT, AND FINISHED TO MATCH ADJACENT AREAS.
 - WHERE PIPING PASSES THROUGH FIRE RATED WALLS, FLOORS, OR CEILINGS; OPENINGS SHALL BE FIRE AND SMOKE STOPPED WITH AN U.L. APPROVED FIRE STOP SYSTEM AS MANUFACTURED BY 3M, DOW CORNING, HILTI, OR APPROVED EQUAL.
 - CONTRACTOR SHALL SLOPE ALL PIPING TO THE SYSTEM MAIN DRAIN TO INSURE PROPER DRAINAGE. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ADDITIONAL AUXILIARY DRAINS TO ALLOW ALL PIPING TO BE DRAINED.
 - SPRINKLERS SHALL BE CENTERED WITHIN CEILING TILES. SPRINKLERS SHALL BE VISUALLY ALIGNED IN AREAS WITH DRYWALL CEILINGS AND/OR EXPOSED INSTALLATIONS.
 - SPRINKLERS IN MECHANICAL, ELECTRICAL, COMMUNICATION ROOMS AND NEAR UNIT HEATERS SHALL BE RATED HIGH TEMPERATURE.
 - MECHANICAL, ELECTRICAL AND COMMUNICATION ROOMS SHALL BE SUPPLIED WITH BRANCH LINES ONLY.
 - DO NOT INSTALL PIPING OR SPRINKLERS DIRECTLY OVER ELECTRICAL PANELS. COORDINATE ROUTINGS WITH ELECTRICAL CONTRACTOR.
 - TAMPER, FLOW, AND PRESSURE SWITCHES SHALL BE MONITORED BY THE BUILDING FIRE ALARM SYSTEM. COORDINATE WORK WITH ELECTRICAL CONTRACTOR.
 - PROVIDE INSPECTOR'S TEST CONNECTION. INSTALL WITH LABELED TEST VALVE ACCESSIBLE AND DISCHARGE ROUTED TO EXTERIOR OF BUILDING.
 - PREPARE, PRIME, AND PAINT ALL PIPE, SUPPORTS AND HANGERS NOT CONCEALED ABOVE CEILINGS.
 - PIPE SUPPORTS SHALL BE INSTALLED FOR SEISMIC DESIGN CATEGORY 'D' AS SPECIFIED IN THE KENTUCKY BUILDING CODE.

FIRE SUPPRESSION DESIGN CRITERIA

STATIC:	65	PSI
RESIDUAL:	55	PSI
WATER FLOW:	1225	GPM
DURATION:	90	MINS.
SOURCE OF WATER SUPPLY:	CITY WATER MAIN	
SOURCE OF WATER FLOW DATA:	C. MILES, CITY OF MURRAY WATER DIVISION	
DATE OF WATER FLOW TEST:	11/03/2011 AT 8:30 A.M. C.D.T.	
ANTICIPATED WATER DEMAND:	35	PSI
	525	GPM
CLASSIFICATION OF HAZARD(S):	LIGHT HAZARD AND ORDINARY HAZARD GROUP 1	
OCCUPANCY OF BUILDING:	GYMNASIUM/OFFICE	
SPECIFIC TYPES OF SUPPRESSION SYSTEM(S):	AUTOMATIC WET PIPE	
NFPA STANDARD(S) FOLLOWED IN DESIGN:	NFPA 13	

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 STRUCTURAL ENGINEER LICENSE NO. 18897
 615 GIBBERT DRIVE, MURRAY, KY 42071-3384
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SPORTS PRACTICE FACILITY
MURRAY STATE UNIVERSITY
 MURRAY, KENTUCKY
 BID SET - 2012-01-04



REVISIONS

Date -	2012-01-04
H+C Project No -	2983.00
FDC Project No -	10-007
BFW Project No -	11194
Marcum Project No -	11557
Sheet Name -	FIRE PROTECTION LEAD SHEET