GENERAL INFORMATION

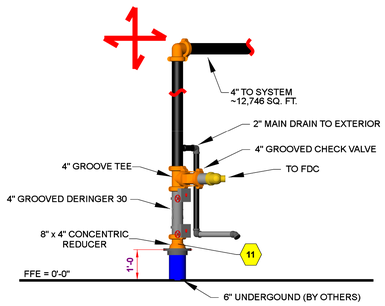
1. INTERNATIONAL BUILDING CODE (2018)
   - 1.1 OCCUPANCY: TYPE E
   - 1.2 TYPE OF CONSTRUCTION: III
   - 1.3 SPRINKLERED AREAS (APPROXIMATE - SEE ARCHITECTURAL PLANS FOR ACTUAL)
     MAIN FLOOR = 12,746 S.F.
   - 1.4 DESIGN & INSTALLATION STANDARDS: NFPA-13 (2016)

2. SPRINKLER PIPE TYPES:
   -WET-
   - 2.1 1" PIPE TO BE SCHEDULE 40 BLACK STEEL w/ THREADED FITTINGS
   - 2.2 1-1/4" THROUGH 4" MAINS & BRANCH LINES TO BE BLK SCHEDULE 10 w/ GROOVED FITTINGS
   - 2.3 MAINS & BRANCH LINES TO BE ROLL-GROOVED BLK SCHEDULE 10
   - 2.4 2" AND LARGER TO USE GROOVED SHORT RADIUS FITTINGS

3. DESIGN CRITERIA:
   - 3.1 LIGHT HAZARD AREAS INCLUDE OFFICE/ADMINISTRATIVE, CLASSROOMS, RESTROOMS, AND CORRIDORS
   - 3.2 ORDINARY HAZARD GROUP I AREAS INCLUDE MECHANICAL & ELECTRICAL ROOMS, AND JANITOR CLOSETS
   - 3.3 ORDINARY HAZARD GROUP II AREAS INCLUDE SCIENCE CLASSROOM
   - 3.4 REMOTE AREA REDUCTIONS HAVE BEEN TAKEN WHERE APPLICABLE PER NFPA 13 SEC. 11.2.3.2

4. NOTES:
   - 4.1 ALL MATERIAL TO BE NEW AND MEET U.L. STANDARDS
   - 4.2 HANGERS TO BE INSTALLED IN ACCORDANCE WITH NFPA 13 - SEE PLAN FOR HANGING

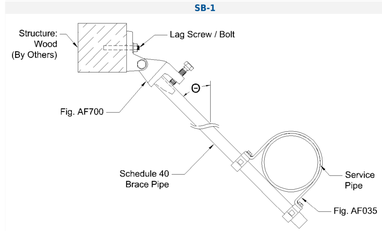
5. SCOPE OF WORK:
   - 5.1 INSTALL A COMPLETE SINGLE ZONE WET FIRE SPRINKLER SYSTEM TO COVER ALL AREAS OF BUILDING
   - 5.2 ALL AREAS OF THE BUILDING TO BE INSTALLED AND COVERED IN ACCORDANCE WITH THE LOCAL AUTHORITY HAVING JURISDICTION AND PER NFPA 13



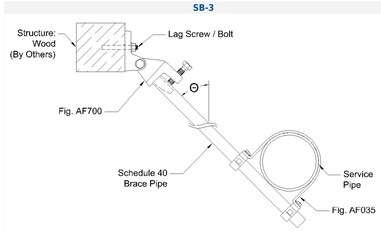
SEISMIC DETAILS

SEISMIC KEY:
- LATERAL BRACE — 1#
- LONGITUDINAL BRACE — SB-#
- BRANCH LINE RESTRAINT

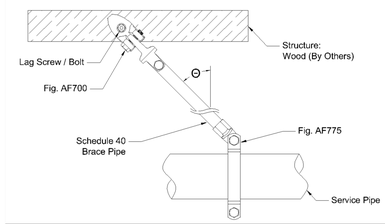
SB-1



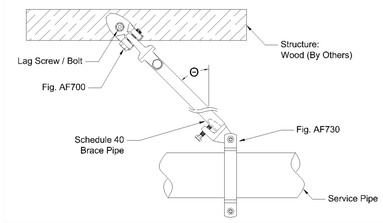
SB-3

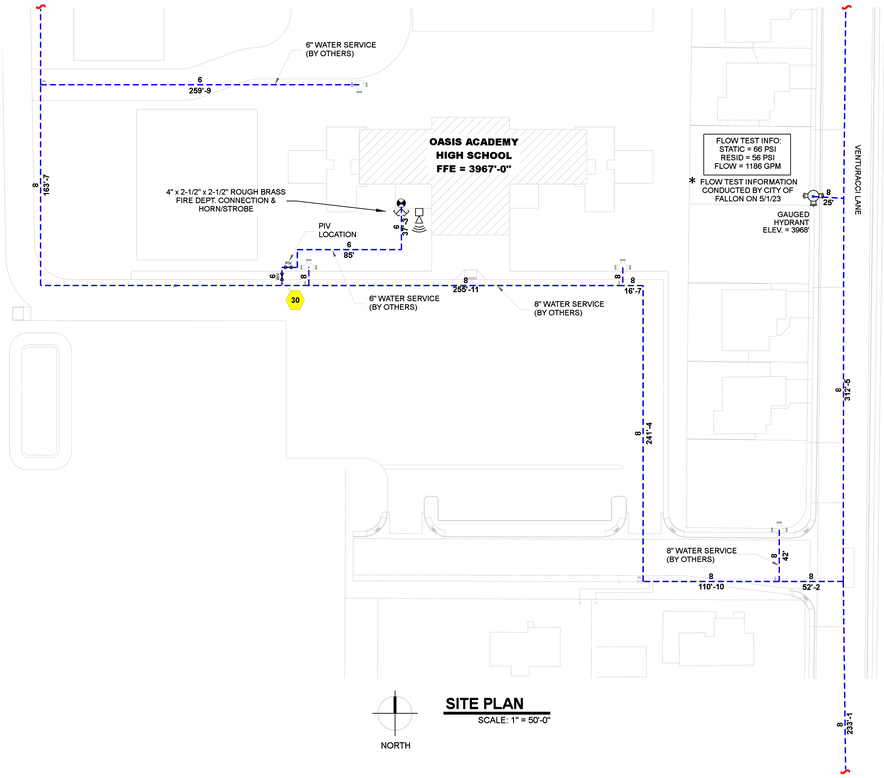


SB-2



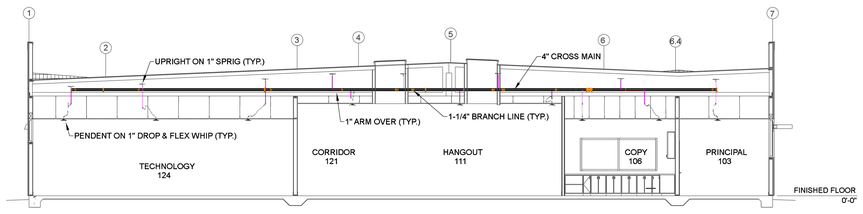
SB-4



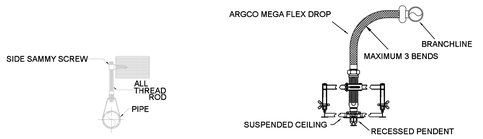


SITE PLAN
SCALE: 1" = 50'-0"

1 RISER DETAIL (45° ANGLE)
SCALE: 1/2" = 1'-0"



A BUILDING SECTION (FACING EAST)
SCALE: 1/8" = 1'-0"



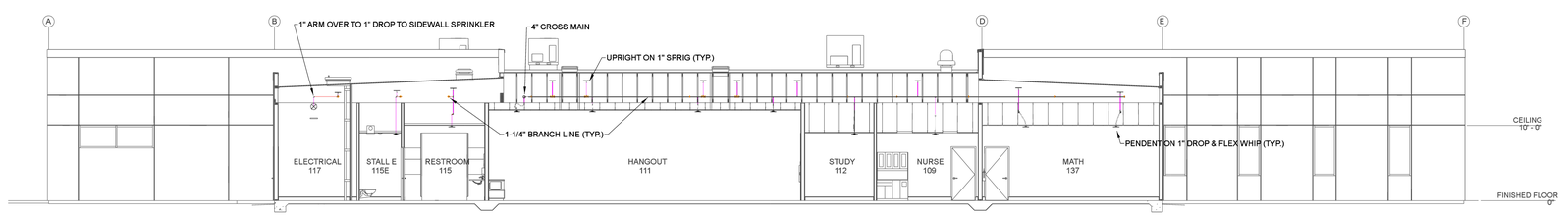
SIDE SAMMY SCREW — NOT TO SCALE

FLEXIBLE SPRINKLER DROP ASSEMBLY — NOT TO SCALE

HANGER DETAILS

MAXIMUM DISTANCE BETWEEN HANGERS (FT.-IN.)

	3/4 "	1"	1 1/4 "	1 1/2 "	2"	2 1/2 "	3"	4"	6"	8"
STEEL PIPE EXCEPT THREADED LIGHTWALL	NA	12-0	12-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0
THREADED LIGHTWALL STEEL PIPE	NA	12-0	12-0	12-0	12-0	NA	NA	NA	NA	NA



B BUILDING SECTION (FACING NORTH)
SCALE: 1/8" = 1'-0"

NORTH / WEST / EAST / SOUTH

WATER SUPPLY INFORMATION - FLOW TEST DATA

STATIC PSI	RESIDUAL PSI	FLOW GPM	DATE OF FLOW TEST
66	56	1186	5/01/2023

FLOW TEST LOCATION: 531 VENTURACCI LN.

SOURCE OF INFORMATION: CITY OF FALLON

SYMBOLS AND ABBREVIATIONS

- ★ X'-X FF ℄ — PIPE ELEVATION ABOVE FINISH FLOOR
- OH1 — ROOM HAZARD CLASSIFICATION (ALL ROOMS ARE CONSIDERED LIGHT HAZARD U.N.O.)
- (W) — HYDRAULIC CALCULATION JUNCTION POINT
- 9'-0" — CEILING HEIGHT
- WOOD TRUSS
- WET BLACK STEEL PIPE
- SM RM — SMALL ROOM RULE MARKER (NFPA 13, 8.6.3.2.4.1)

CONTRACTOR

SPRINKLER HEAD LEGEND

Symbol	Manufacturer	SIN	Model	Quantity	K-Factor	Type	Size	Response	Finish	Temp	Note	Max Spacing
●	Tyco	TY3231	TY-FRB	116	5.6	Pendent	½	Quick	White RAL 9010	155 °F	REC.	15'x15'
○	Tyco	TY3109	CC3	80	5.6	Upright	½	Quick	Brass	200 °F	N/A	16'x16'
▷	Tyco	TY3331	TY-FRB	1	5.6	Horizontal Sidewall	½	Quick	Natural Brass	200 °F	N/A	14'x14'
				Total = 197								

CONTRACT RESPONSIBILITIES

ITEM	OFP	OTHERS
STREET WATER CONNECTION		
UNDERGROUND WATER MAINS		
EXCAVCATION		
BACKFILL		
WIRING		
PAINTING		

NO.	DATE	BY

OASIS ACADEMY
FALLON, NEVADA 89406

DRAWN BY: ZBS | DATE: 10/18/2023 | SCALE: AS NOTED | FP1 OF 2

Hydraulic Information	
OCCUPANCY CLASSIFICATION	Light Hazard
DENSITY (gpm/ft²)	0.10 for 1500 ft² (Actual 1432 ft²)
TOTAL HOSE STREAMS	100.0
TOTAL HEADS FLOWING	8
K-FACTOR	5.6
TOTAL WATER REQUIRED	283.9
TOTAL PRESSURE REQUIRED	43.2
SAFETY MARGIN (psi)	+22.1 (33.9%)

HYDRAULIC PLACARD

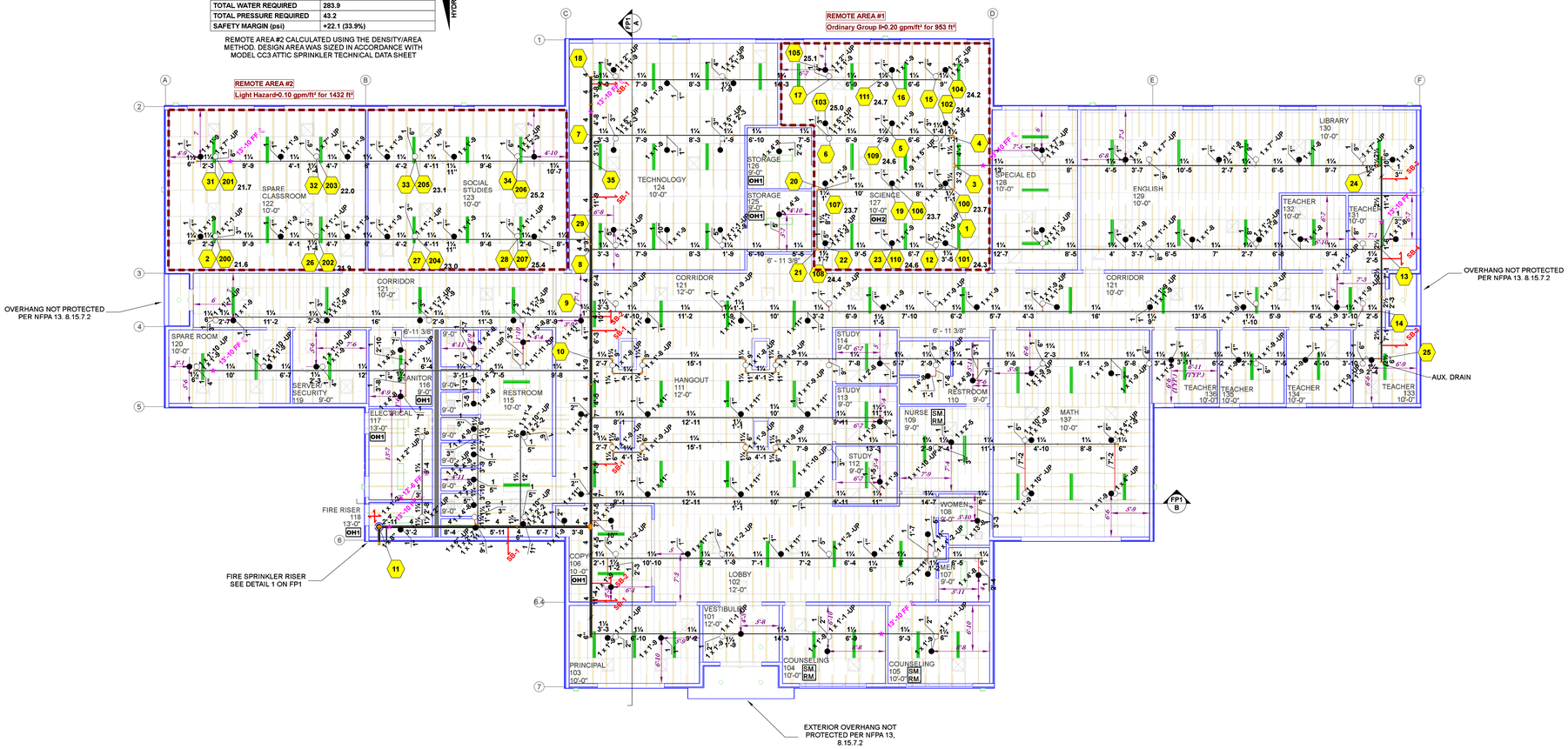
REMOTE AREA #2 CALCULATED USING THE DENSITY/AREA METHOD. DESIGN AREA WAS SIZED IN ACCORDANCE WITH MODEL CC3 ATTIC SPRINKLER TECHNICAL DATA SHEET

Hydraulic Information	
OCCUPANCY CLASSIFICATION	Ordinary Group II
DENSITY (gpm/ft²)	0.20 for 1500 ft² (Actual 953 ft²)
QUICK RESPONSE REDUCTION	10' Ceiling (40.0%) 900 ft²
TOTAL HOSE STREAMS	250.0
TOTAL HEADS FLOWING	12
K-FACTOR	5.6
TOTAL WATER REQUIRED	542.3
TOTAL PRESSURE REQUIRED	50.7
SAFETY MARGIN (psi)	+13.0 (20.4%)

HYDRAULIC PLACARD

REMOTE AREA #1 WAS CALCULATED USING THE DENSITY/AREA METHOD. DESIGN AREA WAS SIZED IN ACCORDANCE WITH NFPA 13, 11.2.3.2 & QR REDUCTION APPLIED VIA SEC. 11.2.3.2.3.1

AS STATED IN A.8.16.6:
AT THE DISCRETION OF THE INSTALLER, AUTOMATIC AIR VENTS ARE TO BE INSTALLED BY ONE OF THE FOLLOWING METHODS
(1) MANUAL VALVE, MIN 1/2"
(2) AUTOMATIC AIR VENT
(3) OTHER APPROVED MEANS



MAIN LEVEL FIRE SPRINKLER PLAN

SCALE: 1/8" = 1'-0"

NORTH

NORTH / WEST / EAST / SOUTH

WATER SUPPLY INFORMATION - FLOW TEST DATA							
STATIC PSI	66	RESIDUAL PSI	56	FLOW GPM	1186	DATE OF FLOW TEST	5/01/2023
FLOW TEST LOCATION	531 VENTURACCI LN.						
SOURCE OF INFORMATION	CITY OF FALLON						

NOTICE: THIS DRAWING MAY NOT BE REPRODUCED, COPIED OR RE-USED IN ANY MANNER WITHOUT THE EXPRESS WRITTEN PERMISSION OF OVERHEAD

SYMBOLS AND ABBREVIATIONS

- ★X'-X"FF℄ PIPE ELEVATION ABOVE FINISH FLOOR
- OH1 ROOM HAZARD CLASSIFICATION (ALL ROOMS ARE CONSIDERED LIGHT HAZARD U.N.O.)
- HYDRAULIC CALCULATION JUNCTION POINT
- 9'-0" CEILING HEIGHT
- WOOD TRUSS
- WET BLACK STEEL PIPE
- SM RM SMALL ROOM RULE MARKER (NFPA 13, 8.6.3.2.4.1)

CONTRACTOR

SPRINKLER HEAD LEGEND

Symbol	Manufacturer	SIN	Model	Quantity	K-Factor	Type	Size	Response	Finish	Temp	Note	Max Spacing
●	Tyco	TY3231	TY-FRB	116	5.6	Pendent	½	Quick	White RAL 9010	155 °F	REC.	15'x15'
○	Tyco	TY3199	CC3	80	5.6	Upright	½	Quick	Brass	200 °F	N/A	16'x16'
▽	Tyco	TY3331	TY-FRB	1	5.6	Horizontal Sidewall	½	Quick	Natural Brass	200 °F	N/A	14'x14'
				Total = 197								

CONTRACT RESPONSIBILITIES

ITEM	OFP	OTHERS
STREET WATER CONNECTION		
UNDERGROUND WATER MAINS		
EXCAVCATION		
BACKFILL		
WIRING		
PAINTING		

NO.	DATE	BY

OASIS ACADEMY
FALLON, NEVADA 89406

DRAWN BY ZBS | DATE 10/18/2023 | SCALE AS NOTED | FP2 OF 2