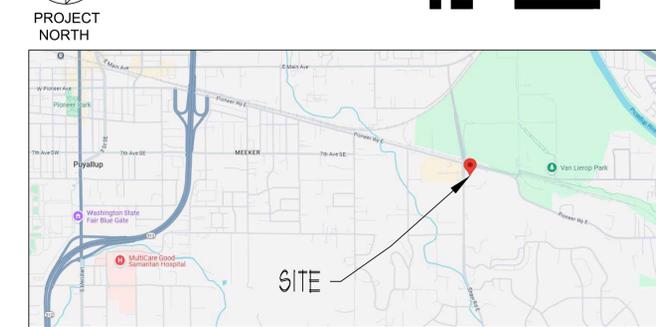


CLUBHOUSE SITE PLAN
SCALE: 1" = 20'-0"



VICINITY MAP
SCALE: NTS

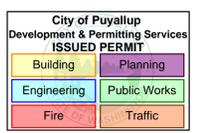
SITE PLAN
SCALE: 1" = 40'-0"

City of Puyallup Fire REVIEWED FOR COMPLIANCE

DDrake
10/27/2025
11:08:32 AM

THE APPROVED CONSTRUCTION PLANS AND ALL ENGINEERING MUST BE POSTED ON THE JOB AT ALL INSPECTIONS IN A VISIBLE AND READILY ACCESSIBLE LOCATION.

Approval of submitted plans is not an approval of omissions or oversight by this office or noncompliance with any applicable regulations of local government. The contractor is responsible for making sure that the building complies with all applicable building codes and regulations of the local government.



FLOW TEST INFORMATION

STATIC	40 PSI
RESIDUAL	25 PSI
FLOWING	1560 GPM
LOCATION	AT SITE
BY WHO	CITY OF PUYALLUP WATER DIVISION

SPRINKLER HEAD SCHEDULE

SYMBOL	COUNT	THREAD	K-FACTOR	DESCRIPTION	NOTE
⊙	18	1/2"	4.9	HEAD1= VIKING VK468 WHITE RESIDENTIAL RECESSED PENDENT 175°F.	on Drop
⊠	16	3/4"	8.0	HEAD10= RELIABLE D080-27 RA5692 QR ATTIC UPRIGHT 212°F.	on Sprig
⊙	13	1/2"	5.6	HEAD17= RELIABLE AH56 RA5626 QR ATTIC UPRIGHT 212°F.	on Sprig
⊗	3	1/2"	5.6	HEAD4= VIKING VK300 QR BRASS UPRIGHT 200°F.	on Sprig
⊙	38	1/2"	5.6	HEAD6= VIKING VK302 QR WHITE RECESSED PENDENT 175°F.	on Drop
◀	1	1"	5.6	SIDE1= VIKING VK178 QR CHROME DRY HORIZONTAL SIDEWALL 200°F.	

89 = TOTAL NUMBER OF HEADS CLUBHOUSE

SPRINX FIRE PROTECTION
EST. 1989
2709 ANN AVE NW, SUITE 402
COVINGTON, WA 98305
PH: 253.853.9890
FAX: 253.853.9890

PROJECT: EAST TOWN CROSSING CLUBHOUSE
ADDRESS: 2902 E PIONEER
CITY: PUYALLUP, WA 98372
TITLE: FIRE SPRINKLER SITE PLAN DRAWING

BY: [Signature]
DATE: 9/15/2025
DRAWN: AJP
Page 1 of 4

REVISIONS

NO.	DATE	DESCRIPTION

GENERAL R & R CONSTRUCTION CONSULTING LLC
ADDRESS: 7809 PACIFIC AVE
CITY: TACOMA, WA 98408
SUPER: ADAM RAYGOR
JOB PHONE: 253-961-9976
NAME: CITY OF PUYALLUP
PHONE: (253) 864-4165

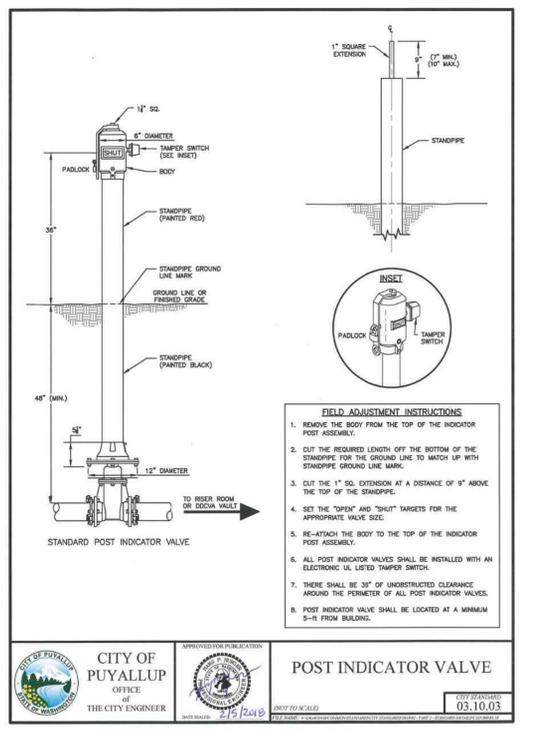
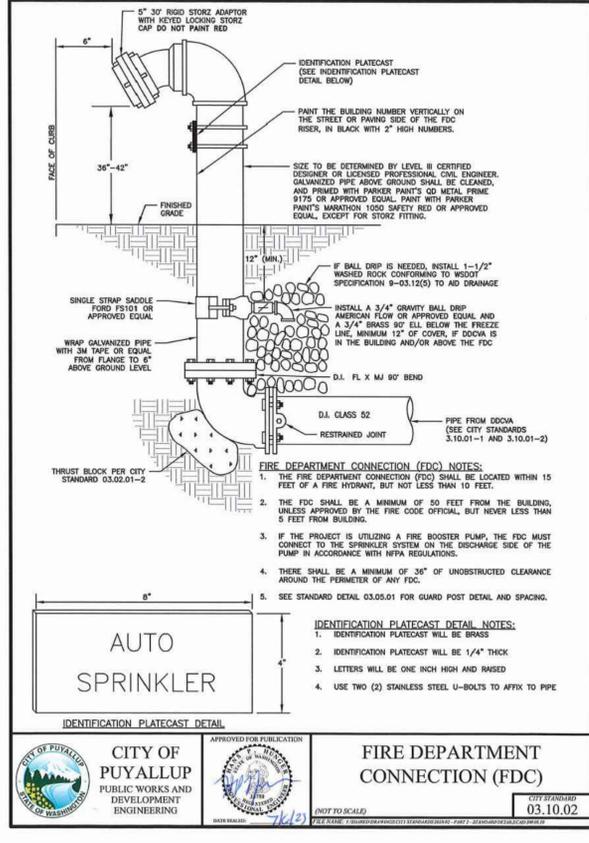
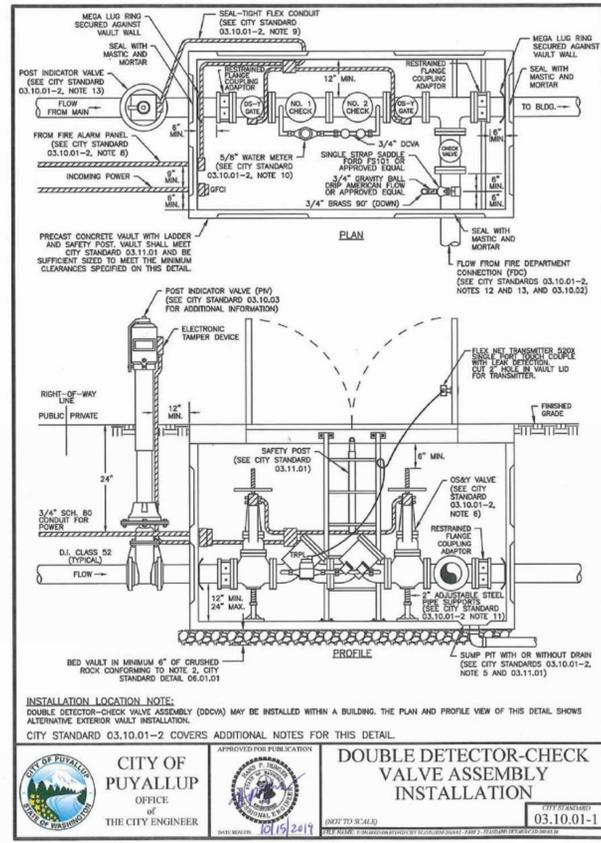
STANDARD SYMBOLS

⊙	Pipe Coupling
⊠	Pipe Drop
⊙	Pipe Rise
⊠	Pipe End Cap
⊗	2-WAY EARTHQUAKE BRACE
⊗	4-WAY EARTHQUAKE BRACE
⊗	PIPE HANGER
⊗	Hydraulic Reference Points
⊗	Elev. Below Top of Steel
⊗	Elev. Above Finished Floor
⊗	ceiling Height

WA. STATE LEVEL 3 STAMP

Expires 06/30/26
WASHINGTON STATE
CERTIFICATE OF COMPETENCY
FIRE SPRINKLER SYSTEMS
Joseph G. Faulkner
9451-0899-CEG Level 3
Sprinx Fire Protection, Inc.
SPRINX011LS
Joseph G. Faulkner
Date

Project No: 24-093CM
Sheet Title: **SITE PLAN**
Sheet Number: **FP-1.0**
File Name: ETC SITE PLAN.dwg



City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

SPRINKLER HEAD SCHEDULE					
SYMBOL	COUNT	THREAD	K-FACTOR	DESCRIPTION	NOTE
⊙	18	1/2"	4.9	HEAD1= VIKING VK468 WHITE RESIDENTIAL RECESSED PENDENT 175°F.	on Drop
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◀	1	1"	5.6	SIDE1= VIKING VK178 QR CHROME DRY HORIZONTAL SIDEWALL 200°F.	
89 = TOTAL NUMBER OF HEADS CLUBHOUSE					

UNDERGROUND NOTES:

- 1) ALL UNDERGROUND BY OTHERS. CONTRACTOR TO BE STATE LICENSED AND CERTIFIED TO INSTALL UNDERGROUND PIPING PER WAC 212-80.
- 2) PIPE TYPE AND CLASS TO MEET LOCAL JURISDICTION APPROVAL.
- 3) ALL UNDERGROUND PIPING SHALL HAVE A MINIMUM 3'-0" BURY.
- 4) ALL UNDERGROUND PIPING SHALL BE U.L. LISTED AND/OR FM APPROVED FOR FIRE PROTECTION.
- 5) ALL UNDERGROUND PIPING SHALL BE RODDED AND/OR BLOKED IN ACCORDANCE WITH THE SPECIFICATIONS AND NFPA 24.
- 6) ALL UNDERGROUND PIPING SHALL BE HYDROSTATICALLY TESTED AT NOT LESS THAN 200 PSI FOR TWO HOURS IN ACCORDANCE WITH NFPA 24.
- 7) ALL UNDERGROUND PIPING SHALL BE FLUSHED IN ACCORDANCE WITH NFPA 24. FLOW THE REQUIRED RATE UNTIL WATER IS CLEAR AS INDICATED BY NO COLLECTION OF FOREIGN MATERIAL IN BURLAP BAGS AT OUTLETS.
4" - 390 GPM 10" - 2,400 GPM
6" - 880 GPM 12" - 3,520 GPM
8" - 1,560 GPM
- 8) ALL UNDERGROUND INSTALLATION AND TESTING TO BE WITNESSED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
- 9) WHERE PIPES PASSES THROUGH HOLES IN FOUNDATIONS, WALLS, OR FLOORS, THE HOLES OR SLEEVE SHALL BE SIZED 4 IN. LARGER THAN THE SUPPLY PIPE SIZE ON PIPES SIZED 4" OR LARGER.

REVISIONS

NO.	DATE	DESCRIPTION

GENERAL
R & R CONSTRUCTION CONSULTING LLC
ADDRESS: 7809 PACIFIC AVE
CITY: TACOMA, WA 98408
SUPER: ADAM RAYGOR
JOB PHONE: 253-961-9976
NAME: CITY OF PUYALLUP
PHONE: (253) 864-4165

STANDARD SYMBOLS

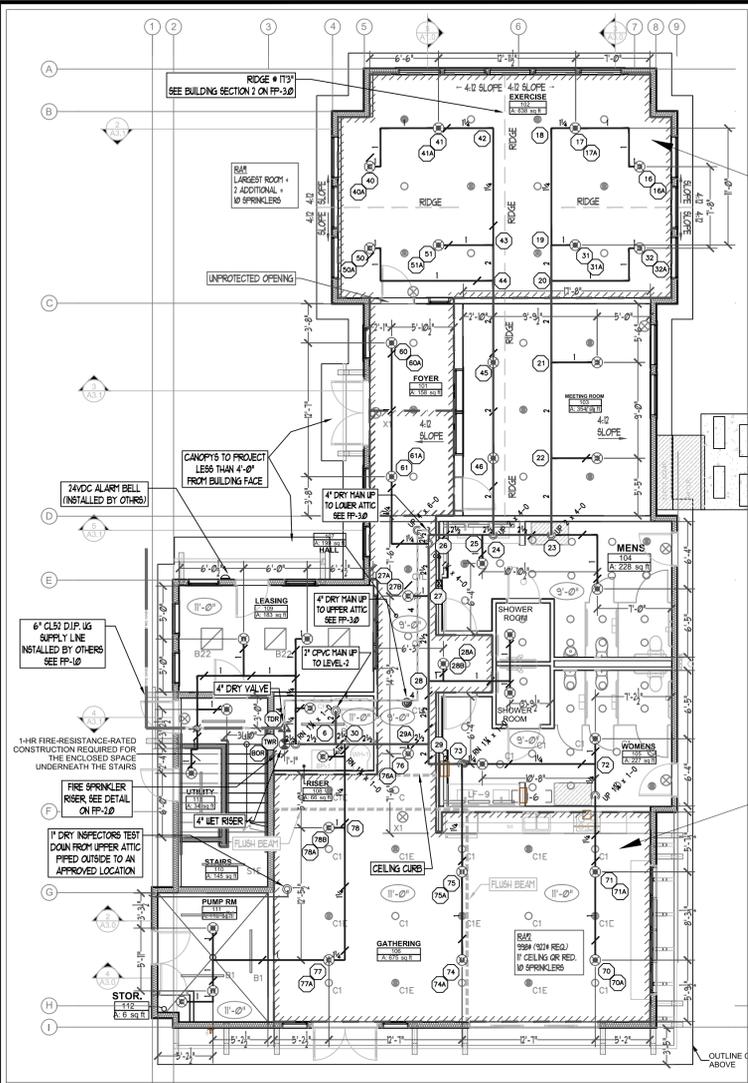
⊙	Pipe Coupling
⊠	Pipe Drop
⊡	Pipe Rise
⊢	Pipe End Cap
⊣	2-WAY EARTHQUAKE BRACE
⊤	4-WAY EARTHQUAKE BRACE
⊥	PIPE HANGER
⊦	Hydraulic Reference Points
⊧	Elev. Below Top of Steel
⊨	Elev. Above Finished Floor
⊩	Colling Height

WA. STATE LEVEL 3 STAMP

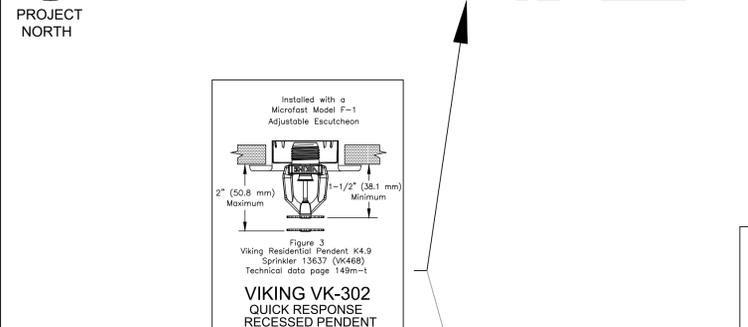
WASHINGTON STATE
CERTIFICATE OF COMPETENCY
FIRE SPRINKLER SYSTEMS
Joseph G. Faulkner
9451-0509-C2C Level 3
Sprinx Fire Protection, Inc.
SPRINF011LS
Date: 10/11/2023

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

Project No: 24-093CM
Sheet Title: DETAILS
Sheet Number: FP-1.1
File Name: ETC SITE PLAN.dwg



FIRST FLOOR WET FIRE SPRINKLER PLAN
SCALE: 1/8" = 1'-0"



STANDARD COVERAGE SPRINKLER OBSTRUCTION

DISTANCE FROM SPRINKLERS TO SIDE OF OBSTRUCTION	MAXIMUM ALLOWABLE DISTANCE OF DEFLECTOR ABOVE BOTTOM OF OBSTRUCTION
<1'-0"	0"
1'-0" to <1'-6"	2 3/4"
1'-6" to <2'-0"	3 3/4"
2'-0" to <2'-6"	5 3/4"
2'-6" to <3'-0"	7 3/4"
3'-0" to <3'-6"	9 3/4"
3'-6" to <4'-0"	12"
4'-0" to <4'-6"	14"
4'-6" to <5'-0"	16 3/4"
5'-0" to <5'-6"	18"
5'-6" to <6'-0"	20"
6'-0" to <6'-6"	24"
6'-6" to <7'-0"	30"
7'-0" to <7'-6"	35"

CPVC HANGER SCHEDULE AND DETAIL

PIPE SIZE	SYSTEM PRESSURE	MAXIMUM SUPPORT SPACING DISTANCE
1/2"	< 100 psi	12"
3/4"	> 100 psi	16"
1"	> 100 psi	24"

Hydraulic Calculation Data

Design Area Number: RA#1
Design Area Location: FIRST FLOOR WEST
Hazard/Occupancy: LIGHT HAZARD NFPA 13
Design Density: 0.10
Design Area: LARGEST ROOM
Number of Sprinklers in Design Area: 10

System Flow: 259.11 @ TEST
System Pressure: 28.590 SAFETY FACTOR = 10.87 PSI @ 27.5%
Hose Allowance (Included): 100

Hydraulically Calculated System

This system as shown on: SPRINX FIRE PROTECTION
company print no: FP-2.0 dated: 9/15/2025
for: REMOTE AREA 01 - FIRST FLOOR WEST
at: ETC CLUBHOUSE contract no: 24-093CM
is designed to discharge at a rate of .10 GPM (L/min) per sq ft (m2) of floor area over a maximum area of LARGEST ROOM sq ft (m2) when supplied with water at the rate of 159.11 GPM (L/min) at 21.679 psi (bars) at the base of the riser
Hose stream allowance of 100 GPM (L/min) is included in the above.
Occupancy Classification: NFPA-13 LIGHT HAZARD (2019)
Commodity Classification: N/A
Maximum Storage Height: N/A
Installed By: SPRINX FIRE PROTECTION, INC.

**ROOM DESIGN METHOD ↑
NFPA-13 (2019) 19.3.3.3**

Hydraulic Calculation Data

Design Area Number: RA#2
Design Area Location: FIRST FLOOR WEST EAST
Hazard/Occupancy: LIGHT HAZARD NFPA 13
Design Density: 0.10
Design Area: 998 SQ. FT.
Number of Sprinklers in Design Area: 10

System Flow: 286.27 @ TEST
System Pressure: 23.945 SAFETY FACTOR = 15.40 PSI @ 39.1%
Hose Allowance (Included): 100

Hydraulically Calculated System

This system as shown on: SPRINX FIRE PROTECTION
company print no: FP-2.0 dated: 9/15/2025
for: REMOTE AREA 02 - FIRST FLOOR EAST
at: ETC CLUBHOUSE contract no: 24-093CM
is designed to discharge at a rate of .10 GPM (L/min) per sq ft (m2) of floor area over a maximum area of 998 sq ft (m2) when supplied with water at the rate of 186.27 GPM (L/min) at 17.293 psi (bars) at the base of the riser
Hose stream allowance of 100 GPM (L/min) is included in the above.
Occupancy Classification: NFPA-13 LIGHT HAZARD (2019)
Commodity Classification: N/A
Maximum Storage Height: N/A
Installed By: SPRINX FIRE PROTECTION, INC.

Hydraulic Calculation Data

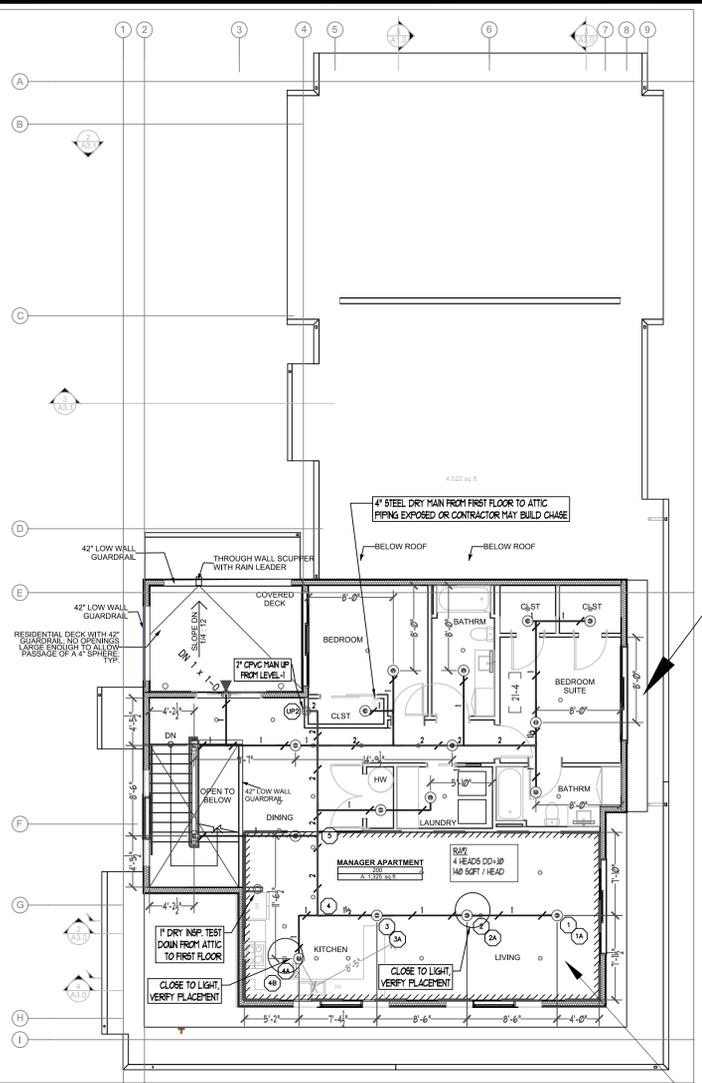
Design Area Number: RA#3
Design Area Location: LEVEL-2 LIVING / KITCHEN
Hazard/Occupancy: RESIDENTIAL NFPA 13
Design Density: 0.10
Design Area: 140 SQFT / SPRINKLER
Number of Sprinklers in Design Area: 4

System Flow: 159.04 @ TEST
System Pressure: 28.847 SAFETY FACTOR = 10.93 PSI @ 27.5%
Hose Allowance (Included): 100

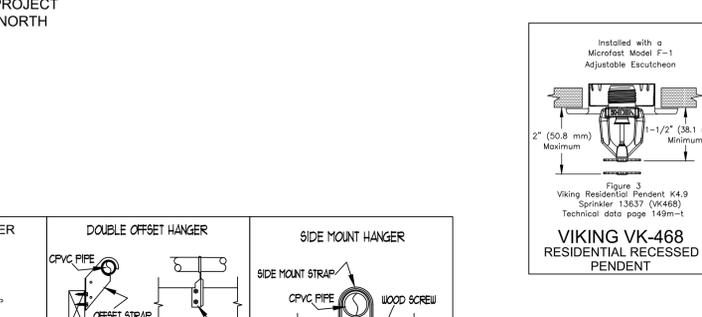
Hydraulically Calculated System

This system as shown on: SPRINX FIRE PROTECTION
company print no: FP-2.0 dated: 09/15/2025
for: REMOTE AREA 03 - LIVING / KITCHEN
at: ETC CLUBHOUSE contract no: 24-093CM
is designed to discharge at a rate of .10 GPM (L/min) per sq ft (m2) of floor area over a maximum area of 16' x 16' MAX SPACING sq ft (m2) when supplied with water at the rate of 59.04 GPM (L/min) at 20.853 psi (bars) at the base of the riser
Hose stream allowance of 100 GPM (L/min) is included in the above.
Occupancy Classification: NFPA-13 (2019) RESIDENTIAL
Commodity Classification: N/A
Maximum Storage Height: N/A
Installed By: SPRINX FIRE PROTECTION, INC.

**DENSITY/AREA ↑
NFPA-13 (2019) 19.3.3.2,
19.3.3.2.3**



SECOND FLOOR WET FIRE SPRINKLER PLAN
SCALE: 1/8" = 1'-0"



OFFSET PIPE HANGER (COMPOSITE WOOD JOIST)

OFFSET PIPE HANGER (SOLID WOOD JOIST)

DOUBLE OFFSET HANGER

SIDE MOUNT HANGER

ATTIC / PIPE INSULATION (INSULATION PROVIDED BY OTHERS)

ATTIC / PIPE INSULATION (INSULATION PROVIDED BY OTHERS)

1 HOLE STRAP HANGER

2 HOLE STRAP HANGER

TABLE 1
MAXIMUM SUPPORT SPACING DISTANCE
END LINE SPRINKLER HEAD DROP ELBOW

PIPE SIZE	SYSTEM PRESSURE	
	< 100 psi	> 100 psi
1/2"	12"	12"
3/4"	16"	12"
1"	24"	12"

TABLE 2
SOR 185 (ADM 144)
HANGER SPACING

NOMINAL SIZE	MAX SPACING	
	inches	feet
3/4"	(20.0)	55'
1"	(25.0)	60'
1 1/4"	(32.0)	65'
1 1/2"	(40.0)	70'
2"	(50.0)	80'
2 1/2"	(65.0)	90'
3"	(80.0)	100'

Note: Minimum Cure Prior To Pressure Testing (200 PSI)

Pipe Size	Ambient Temperature During Cure Period		
	60 TO 120 Deg. F	40 TO 59 Deg. F	10 TO 39 Deg. F
3/4"	45 MINUTES	1 1/2 HOURS	24 HOURS
1"	45 MINUTES	1 1/2 HOURS	24 HOURS
1 1/4" & 1 1/2"	1 1/2 HOURS	16 HOURS	120 HOURS
2"	6 HOURS	36 HOURS	*
2 1/2" & 3"	8 HOURS	72 HOURS	*

MINIMUM DISTANCES FROM HEAT SOURCES

Minimum Distance from Edge of Space by Ceiling Temp Sprinkler	Minimum Distance from Edge of Source to Intermediate Temp Sprinkler	
SIDE OF OPEN OR RECESSED FIREPLACE	36"	12"
FRONT OF RECESSED FIREPLACE	36"	36"
COAL-OR WOOD-BURNING STOVE	42"	12"
KITCHEN RANGE	18"	9"
WALL OVEN	18"	9"
HOT AIR FLUES	18"	9"
UNINSULATED HEAT DUCTS	18"	9"
UNINSULATED HOT WATER PIPES	12"	6"
SIDE OF CEILING OR WALL MOUNTED HOT AIR DIFFUSERS	24"	12"
FRONT OF WALL MOUNTED HOT AIR DIFFUSERS	36"	18"
HOT WATER HEATER OR FURNACE	36"	18"
LIGHT FIXTURE	6"	3"
0W-250W	6"	3"
250W-480W	12"	6"

SPRINKLER HEAD DISTANCES FROM HEAT SOURCE
TABLE 7.3.5.3, NFPA 13R (2019 EDITION)

NOTE: SPRINKLER HEADS TO MAINTAIN A MINIMUM DISTANCE OF 3'-0" FROM DOMESTIC LIGHTING, CEILING FANS OR SIMILAR OBSTRUCTIONS.

NOTE: SPRINKLER HEADS TO MAINTAIN A MINIMUM DISTANCE OF 9" FROM FACE OF HEAT SOURCE.

RESIDENTIAL PENDENT SPRINKLER OBSTRUCTION

DISTANCE FROM SPRINKLERS TO SIDE OF OBSTRUCTION	MAXIMUM ALLOWABLE DISTANCE OF DEFLECTOR ABOVE BOTTOM OF OBSTRUCTION
LESS THAN 1 FOOT	0
1 FT TO LESS THAN 1 FT 6 IN.	1
1 FT 6 IN. TO LESS THAN 2 FT	1
2 FT TO LESS THAN 2 FT 6 IN.	1
2 FT 6 IN. TO LESS THAN 3 FT	1
3 FT TO LESS THAN 3 FT 6 IN.	3
3 FT 6 IN. TO LESS THAN 4 FT	3
4 FT TO LESS THAN 4 FT 6 IN.	4
4 FT 6 IN. TO LESS THAN 5 FT	5
5 FT TO LESS THAN 5 FT 6 IN.	7
5 FT 6 IN. TO LESS THAN 6 FT	7
6 FT TO LESS THAN 6 FT 6 IN.	9
6 FT 6 IN. TO LESS THAN 7 FT	11
7 FT OR GREATER	14

RESIDENTIAL HORIZONTAL SIDEWALL SPRINKLER OBSTRUCTION

DISTANCE FROM SPRINKLERS TO SIDE OF OBSTRUCTION	MAXIMUM ALLOWABLE DISTANCE OF DEFLECTOR ABOVE BOTTOM OF OBSTRUCTION
LESS THAN 6 IN.	1
6 IN. TO LESS THAN 1 FT	2
1 FT TO LESS THAN 1 FT 6 IN.	3
1 FT 6 IN. TO LESS THAN 2 FT	4 1/2
2 FT TO LESS THAN 2 FT 6 IN.	5 1/2
2 FT 6 IN. TO LESS THAN 3 FT	6
3 FT TO LESS THAN 3 FT 6 IN.	7
3 FT 6 IN. TO LESS THAN 4 FT	8 1/2
4 FT TO LESS THAN 4 FT 6 IN.	10
4 FT 6 IN. TO LESS THAN 5 FT	11 1/2
5 FT TO LESS THAN 5 FT 6 IN.	12 1/2
5 FT 6 IN. TO LESS THAN 6 FT	14
6 FT TO LESS THAN 6 FT 6 IN.	15
6 FT 6 IN. TO LESS THAN 7 FT	16 1/2
7 FT TO LESS THAN 7 FT 6 IN.	17 1/2

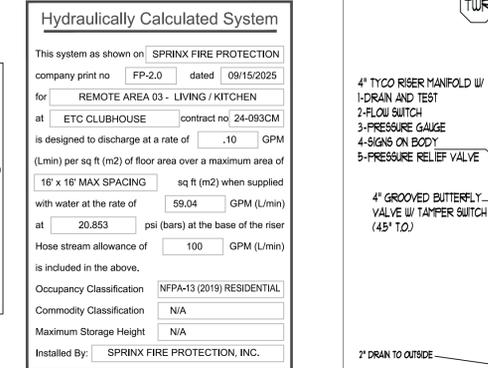
Hydraulic Calculation Data

Design Area Number: RA#3
Design Area Location: LEVEL-2 LIVING / KITCHEN
Hazard/Occupancy: RESIDENTIAL NFPA 13
Design Density: 0.10
Design Area: 140 SQFT / SPRINKLER
Number of Sprinklers in Design Area: 4

System Flow: 159.04 @ TEST
System Pressure: 28.847 SAFETY FACTOR = 10.93 PSI @ 27.5%
Hose Allowance (Included): 100

Hydraulically Calculated System

This system as shown on: SPRINX FIRE PROTECTION
company print no: FP-2.0 dated: 09/15/2025
for: REMOTE AREA 03 - LIVING / KITCHEN
at: ETC CLUBHOUSE contract no: 24-093CM
is designed to discharge at a rate of .10 GPM (L/min) per sq ft (m2) of floor area over a maximum area of 16' x 16' MAX SPACING sq ft (m2) when supplied with water at the rate of 59.04 GPM (L/min) at 20.853 psi (bars) at the base of the riser
Hose stream allowance of 100 GPM (L/min) is included in the above.
Occupancy Classification: NFPA-13 (2019) RESIDENTIAL
Commodity Classification: N/A
Maximum Storage Height: N/A
Installed By: SPRINX FIRE PROTECTION, INC.



**RESIDENTIAL SPRINKLERS ↑
NFPA-13 (2019) 19.4.1.**

City of Puyallup Development & Permitting Services ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

Sprinkler Head Schedule

Symbol	Count	Thread	K-Factor	Description	Note
⊙	18	1/2"	4.9	HEAD1= VIKING VK468 WHITE RESIDENTIAL RECESSED PENDENT 175F.	ON DROP
⊙	38	1/2"	5.6	HEAD6= VIKING VK302 QR WHITE RECESSED PENDENT 175F.	ON DROP
◀	1	1"	5.6	SIDE1= VIKING VK178 QR CHROME DRY HORIZONTAL SIDEWALL 200F.	

57 = TOTAL NUMBER OF HEADS CLUBHOUSE WET SYSTEM

SCOPE OF WORK

INSTALL AUTOMATIC WET FIRE SPRINKLER SYSTEM FOR MULTI FAMILY DWELLING IN ACCORDANCE WITH NFPA 13R 2019 EDITION AND LOCAL AUTHORITY.

GENERAL NOTES

- ALL PIPING AND SPRINKLERS SHALL BE U.L. LISTED AND/OR F.M. APPROVED, AND SHALL BE NEW AND FREE OF DEFECTS.
- HANGER TYPES AND SPACING SHALL BE INSTALLED PER NFPA 13R AND MANUFACTURER'S LISTING.
- SPRINKLER LOCATIONS AND SPACING PER NFPA 13R AND MANUFACTURER'S LISTING.
- ANY AND ALL ALARM SYSTEM WIRING AND INSTALLATION IS BY OTHERS.
- ALL DRILLING AND BORING OF HOLES SHALL BE DONE IN STRICT ACCORDANCE WITH THE STRUCTURAL ENGINEER'S REQUIREMENTS. DO NOT UNDER ANY CIRCUMSTANCES CUT OR MODIFY PRE-MANUFACTURED TRUSSES.
- INSTALLER SHALL VERIFY FINISH CEILING ELEVATION, OBSTRUCTIONS, LIGHT FIXTURES, CABINETS, ETC PRIOR TO INSTALLATION OF SPRINKLER HEADS.
- ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL BE FIRE STOPPED. FIRE STOPPING MATERIAL SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTION BY OTHERS.
- SPRINKLER PIPE SIZING HAS BEEN ESTABLISHED BY HYDRAULIC CALCULATIONS.
- IT IS THE OWNER'S RESPONSIBILITY TO PROVIDE A RELIABLE WATER SUPPLY THAT IS CAPABLE OF MEETING THE MOST DEMANDING AREA.

PROJECT DETAILS

NFPA CODE: 13R 2019
SYSTEM TYPE: WET SYSTEM
PIPE TYPE: BLAZEMASTER CPVC
MAX SPRINKLER SPACING REQUIREMENTS: 16'x16' @ 13 GPM, 18'x18' @ 17 GPM (1 HEAD RM.)
MINIMUM SPRINKLER SPACING: 8' BETWEEN SPRINKLERS
MINIMUM DESIGN DENSITY: 0.05 GPM/SQ.FT.

NFPA & AHJ REQUIREMENTS

- THE DESIGN DISCHARGE SHALL BE ALL OF THE SPRINKLERS WITHIN A SINGLE COMPARTMENT, UP TO A MAXIMUM OF FOUR SPRINKLERS, THAT REQUIRE THE GREATEST HYDRAULIC DEMAND.
- SPRINKLERS SHALL NOT BE REQUIRED IN BATHROOMS OF 55 SQ. FT. AND LESS.
- SPRINKLERS SHALL NOT BE REQUIRED IN CLOTHES CLOSETS, LINEN CLOSETS, AND PANTRIES THAT DO NOT EXCEED 24 SQ. FT. AND HAVE WALLS AND CEILING SURFACED WITH NONCOMBUSTIBLE OR LIMITED COMBUSTIBLE MATERIALS.
- SPRINKLERS SHALL NOT BE REQUIRED IN ATTICS OR CRAWLSPACES.
- SPRINKLER HEADS SHALL BE AT LEAST 3 FT. AWAY FROM CEILING FANS AND SURFACE MOUNTED LIGHT FIXTURES.
- ALL SPRINKLERS SHALL MAINTAIN THE MINIMUM REQUIRED DISTANCES FROM HEAT SOURCES IN ACCORDANCE WITH NFPA 13R.
- SPRINKLER HEADS UNDER SLOPE CEILINGS TO BE MEASURED ALONG THE SLOPE.

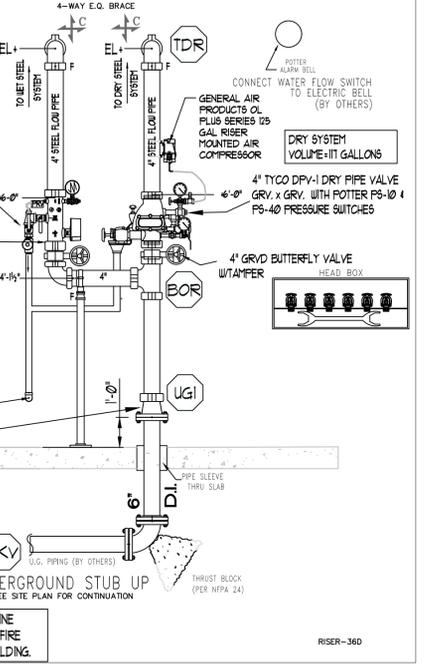
CPVC FIRE SPRINKLER PIPE GUIDELINES

INSTALLING CONTRACTOR TO PROVIDE AN INSTALLATION THAT IS IN 100% COMPLIANCE WITH THESE GUIDELINES. RESIDENTIAL DESIGN CANNOT BE RESPONSIBLE FOR THE WILLFUL OR NEGLIGENT ACTIONS OF OTHER PARTIES THAT DO NOT FOLLOW THE BELOW GUIDELINES.

- THESE GUIDELINES ARE:
- DO NOT STACK, SUPPORT, HANG EQUIPMENT, OR HANG FLEXIBLE WIRE/CABLE, ESPECIALLY COMMUNICATIONS CABLE, OR OTHER MATERIAL ON THE FIRE SPRINKLER.
 - DO NOT EXPOSE CPVC PRODUCTS TO INCOMPATIBLE SUBSTANCES, SUCH AS CUTTING OILS, NON-WATER-BASED PAINTS, PACKING OILS, TRADITIONAL PIPE THREAD PASTE AND DOPE, FUNGICIDES, TERMITICIDES, INSECTICIDES, DETERGENTS, BULKING CAULKING, ADHESIVE TAPE, SOLDER FLUX, FLEXIBLE WIRE/CABLE (WITH SPECIAL CONSIDERATION FOR COMMUNICATIONS CABLE), AND NON-APPROVED SPRAY FOAM INSULATION MATERIALS.
 - DO NOT EXPOSE CPVC PRODUCTS TO EDIBLE OILS, SOLVENTS, OR GLYCOL-BASED ANTI-FREEZE FLUIDS.
 - DO NOT EXPOSE CPVC PRODUCTS TO OPEN FLAME, SOLDER, AND SOLDERING FLUX.
 - DO NOT DROP, DISTORT, OR IMPACT CPVC PRODUCTS OR ALLOW OBJECTS TO BE DROPPED ON THEM.
 - DO NOT HANDLE CPVC PRODUCTS WITH GLOVES CONTAMINATED WITH OILS (HYDROCARBONS) OR OTHER INCOMPATIBLE MATERIALS.
 - DO NOT INJECT SYSTEM WITH M.I.C. INHIBITORS UNLESS THEY ARE LISTED IN COMBINATION WITH THIS SYSTEM.
 - FAILURE TO FOLLOW THIS NOTICE MAY CAUSE CRACKS OR FRACTURES TO DEVELOP IN CPVC PRODUCTS RESULTING IN PROPERTY DAMAGE DUE TO LEAKS OR FLOODING. THE PRESENCE OF ANY VISIBLE CRACKS MAY REQUIRE PARTIAL OR FULL SYSTEM REPLACEMENT.

FREEZE PROTECTION

THIS SYSTEM IS A WET SYSTEM. PRECAUTION MUST BE TAKEN TO PROTECT THE PIPING FROM EXTREME FREEZING TEMPERATURES. IT IS THE RESPONSIBILITY OF THE OWNER AND INSULATION INSTALLER TO ENSURE SUFFICIENT INSULATION IS PROVIDED AND INSTALLED CORRECTLY TO MAINTAIN ALL PIPING AT 40 DEG MINIMUM IN ALL AREAS. THE METHOD TO ACHIEVE THIS CONTROL OF TEMPERATURE SHALL BE IN ACCORDANCE WITH NFPA 13R. DESIGNER AND ENGINEER OF RECORD WILL NOT BE RESPONSIBLE FOR ANY FREEZING PIPE OR DAMAGE CAUSED BY FREEZING PIPING.



RISER DETAIL N.T.S.

Sprinkler Head Schedule

Symbol	Count	Thread	K-Factor	Description	Note
⊙	18	1/2"	4.9	HEAD1= VIKING VK468 WHITE RESIDENTIAL RECESSED PENDENT 175F.	ON DROP
⊙	38	1/2"	5.6	HEAD6= VIKING VK302 QR WHITE RECESSED PENDENT 175F.	ON DROP
◀	1	1"	5.6	SIDE1= VIKING VK178 QR CHROME DRY HORIZONTAL SIDEWALL 200F.	

57 = TOTAL NUMBER OF HEADS CLUBHOUSE WET SYSTEM

SPRINX FIRE PROTECTION
2709 ANN AVE. NW, SUITE 102
COVINGTON, WA 98001-7205
EST. 1999
Phone: 253-853-9890
Fax: 253-853-9890

PROJECT: EAST TOWN CROSSING CLUBHOUSE
ADDRESS: 2902 E PIONEER
CITY: PUYALLUP, WA 98372
TITLE: WET SYSTEM FIRE SPRINKLER DRAWING

DATE: 09/15/2025
DRAWN: AJP/BJW
PAGE: 3 of 4

REVISIONS:

NO.	DESCRIPTION	DATE

STANDARD SYMBOLS:

⊙	Pipe Coupling
⊙	Pipe Drop
⊙	Pipe Rise
⊙	Pipe End Cap
⊙	2-WAY EARTHQUAKE BRACE
⊙	4-WAY EARTHQUAKE BRACE
⊙	PIPE HANGER
⊙	Hydraulic Reference Points
⊙	Grv. x Grv. Above Finished Floor
⊙	Elev. Above Finished Floor
⊙	CEILING HEIGHT

WA. STATE LEVEL 3 STAMP

Expires 12/31/25
WASHINGTON STATE
CERTIFICATE OF COMPETENCY
FIRE SPRINKLER SYSTEMS

Joseph G. Frazier
9491-0699-CEG Level 3
Sprinx Fire Protection, Inc.
SPRINX FIRE PROTECTION
Joseph G. Frazier
9491-0699-CEG Level 3
Sprinx Fire Protection, Inc.
SPRINX FIRE PROTECTION

FILE INSPECTIONS:

NAME	FIELD	INSPECTIONS

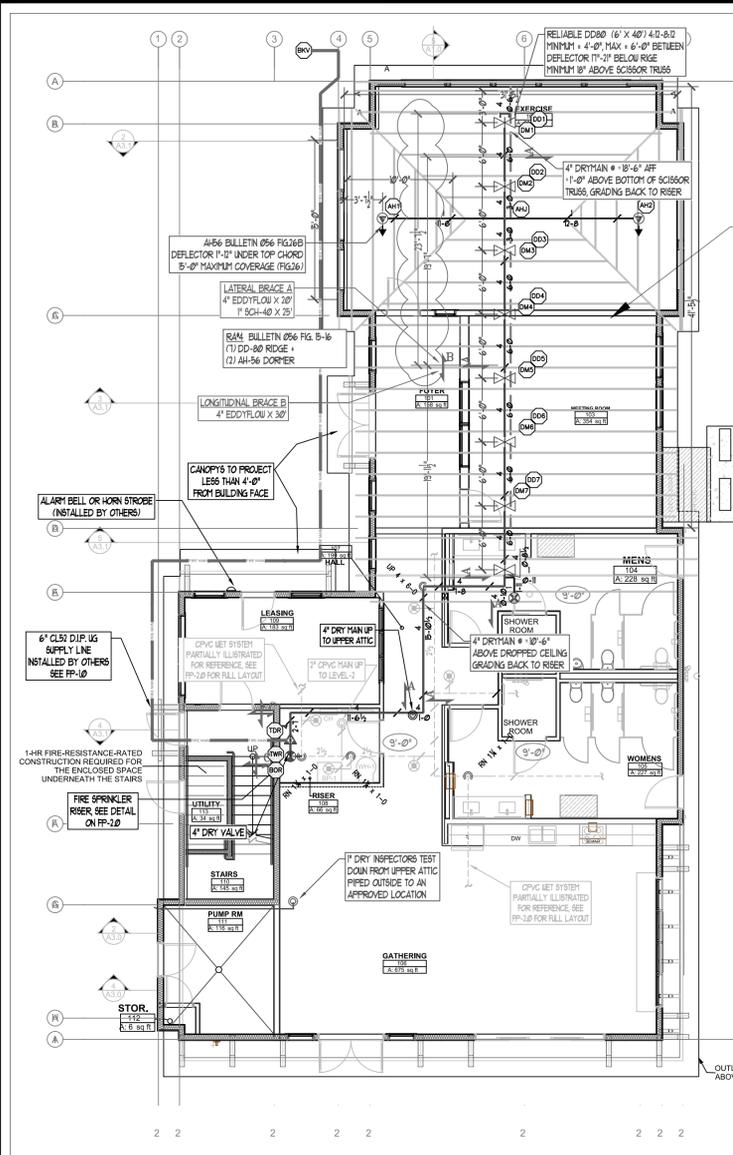
CITY OF PUYALLUP
PHONE # (253) 864-4165

PROJECT NO.: 24-093CM
SHEET NO.: WET SYSTEM

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

FP-2.0

File Name: ETC CLUBHOUSE.dwg



LOWER ATTIC DRY FIRE SPRINKLER PLAN
SCALE: 1/8" = 1'-0"

PROJECT NORTH

Hydraulic Calculation Data

Design Area Number: RA#4
Design Area Location: LOWER ATTIC DRY
Hazard/Occupancy: LIGHT HAZARD NFPA 13
Design Density: 0.10
Design Area: SPRINKLER SPECIFIC
Number of Sprinklers in Design Area: 9

System Flow: 332.13 @ TEST
System Pressure: 29.216 SAFETY FACTOR = 9.93 PSI @ 25.4%
Hose Allowance (Included): 100

Hydraulically Calculated System

This system as shown on SPRINX FIRE PROTECTION company print no. FP-3.0 dated 9/15/2025 for REMOTE AREA 04 - LOWER ATTIC DRY at ETC CLUBHOUSE (contract no. 24-093CM) is designed to discharge at a rate of .10 GPM (L/min) per sq ft (m2) of floor area over a maximum area of SPRINKLER SPECIFIC sq ft (m2) when supplied with water at the rate of 232.13 GPM (L/min) at 22.973 psi (bars) at the base of the riser. Hose stream allowance of 100 GPM (L/min) is included in the above.

Occupancy Classification: NFPA-13 LIGHT HAZARD (2019)
Commodity Classification: N/A
Maximum Storage Height: N/A

Installed By: SPRINX FIRE PROTECTION, INC.

Hydraulic Calculation Data

Design Area Number: RA#5
Design Area Location: UPPER ATTIC DRY
Hazard/Occupancy: LIGHT HAZARD NFPA 13
Design Density: 0.10
Design Area: SPRINKLER SPECIFIC
Number of Sprinklers in Design Area: 9

System Flow: 345.63 @ TEST
System Pressure: 33.625 SAFETY FACTOR = 5.45 PSI @ 14.0%
Hose Allowance (Included): 100

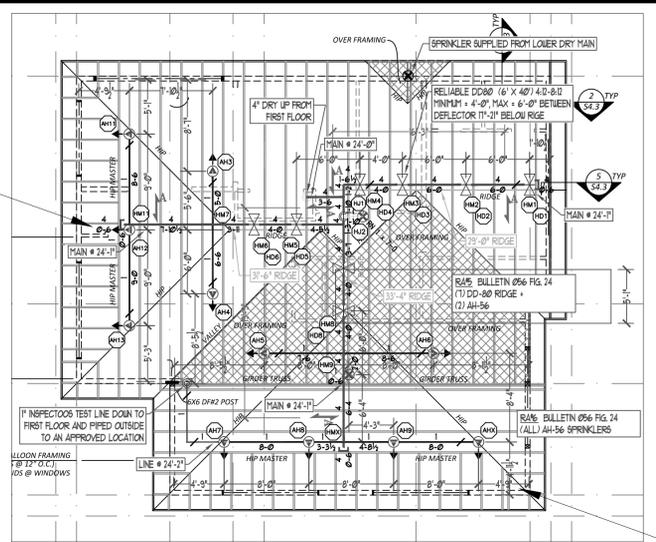
Hydraulically Calculated System

This system as shown on SPRINX FIRE PROTECTION company print no. FP-3.0 dated 9/15/2025 for REMOTE AREA 05 - UPPER ATTIC DRY at ETC CLUBHOUSE (contract no. 24-093CM) is designed to discharge at a rate of .10 GPM (L/min) per sq ft (m2) of floor area over a maximum area of SPRINKLER SPECIFIC sq ft (m2) when supplied with water at the rate of 245.63 GPM (L/min) at 27.495 psi (bars) at the base of the riser. Hose stream allowance of 100 GPM (L/min) is included in the above.

Occupancy Classification: NFPA-13 LIGHT HAZARD (2019)
Commodity Classification: N/A
Maximum Storage Height: N/A

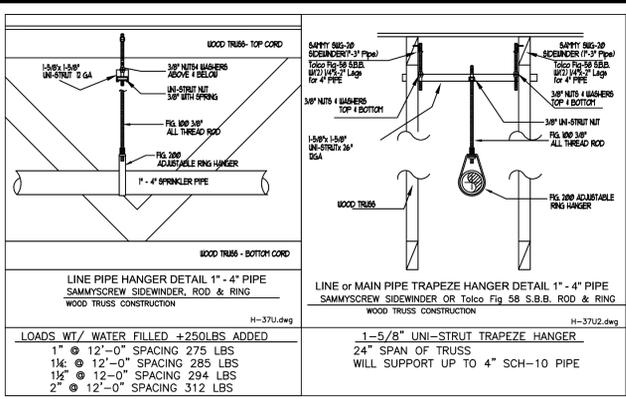
Installed By: SPRINX FIRE PROTECTION, INC.

**RELIABLE ATTIC SPRINKLERS
SEE BULLETIN 056
FOR DESIGN AND CALCULATION CRITERIA**



UPPER ATTIC DRY FIRE SPRINKLER PLAN
SCALE: 1/8" = 1'-0"

PROJECT NORTH



Hydraulic Calculation Data

Design Area Number: RA#6
Design Area Location: UPPER ATTIC DRY AH
Hazard/Occupancy: LIGHT HAZARD NFPA 13
Design Density: 0.10
Design Area: SPRINKLER SPECIFIC
Number of Sprinklers in Design Area: 11 AH

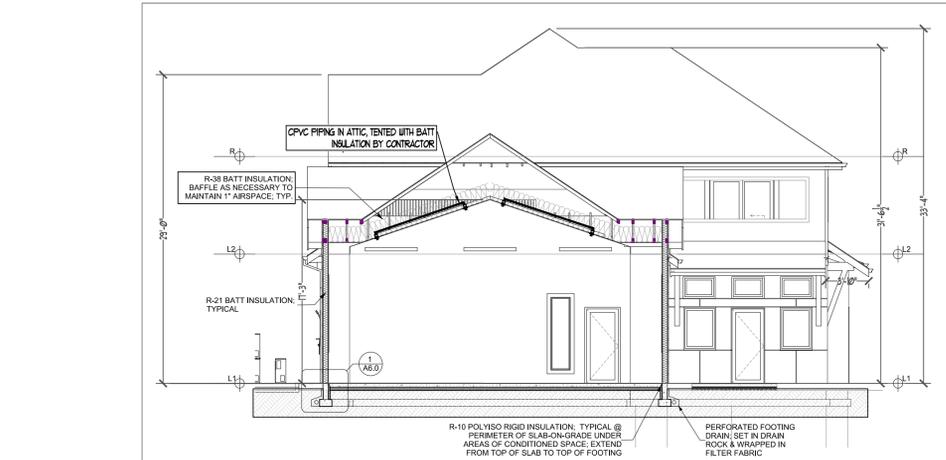
System Flow: 276.24 @ TEST
System Pressure: 28.756 SAFETY FACTOR = 10.63 PSI @ 27.0%
Hose Allowance (Included): 100

Hydraulically Calculated System

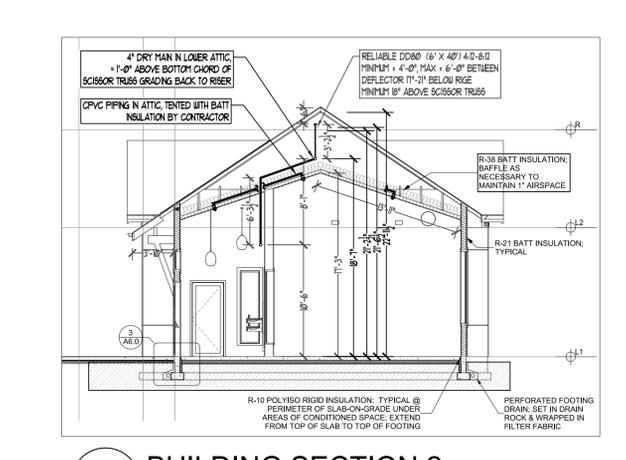
This system as shown on SPRINX FIRE PROTECTION company print no. FP-3.0 dated 9/15/2025 for REMOTE AREA 06 - UPPER ATTIC DRY AH at ETC CLUBHOUSE (contract no. 24-093CM) is designed to discharge at a rate of .10 GPM (L/min) per sq ft (m2) of floor area over a maximum area of SPRINKLER SPECIFIC sq ft (m2) when supplied with water at the rate of 176.24 GPM (L/min) at 22.009 psi (bars) at the base of the riser. Hose stream allowance of 100 GPM (L/min) is included in the above.

Occupancy Classification: NFPA-13 LIGHT HAZARD (2019)
Commodity Classification: N/A
Maximum Storage Height: N/A

Installed By: SPRINX FIRE PROTECTION, INC.

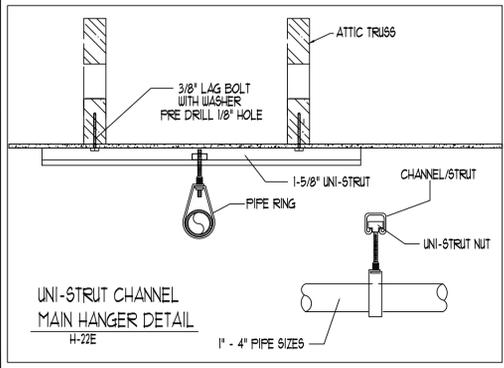
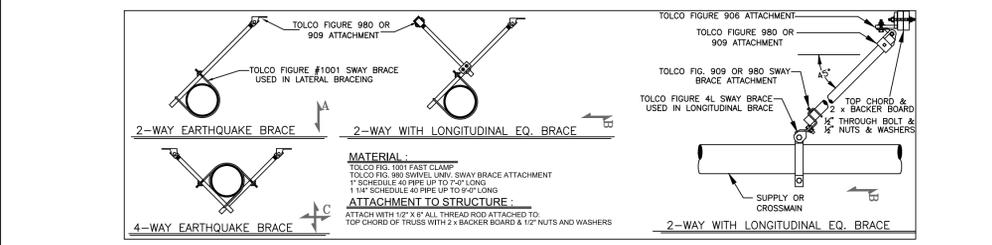


3 BUILDING SECTION 3
SCALE: 1/8" = 1'-0"



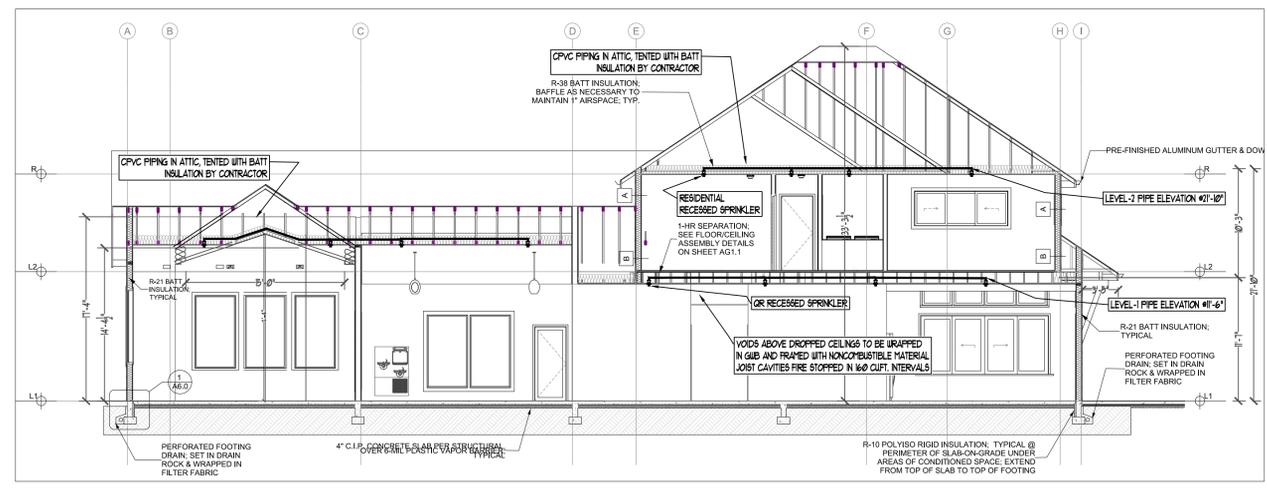
2 BUILDING SECTION 2
SCALE: 1/8" = 1'-0"

* NOT AN ACCURATE DEPICTION OF SPRINKLER LOCATION, REFER TO FLOOR PLANS FOR SPRINKLER LAYOUT



MAXIMUM DISTANCE BETWEEN HANGERS (FT.-IN)

	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
STEEL PIPE	12-0	12-0	15-0	15-0	15-0	15-0	15-0
LIGHTWALL STEEL	12-0	12-0	12-0	12-0	12-0	12-0	N/A
THREADABLE							H-65



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

SPRINKLER HEAD SCHEDULE

SYMBOL	COUNT	THREAD	K-FACTOR	DESCRIPTION	NOTE
⊗	16	3/4"	8.0	HEAD10= RELIABLE DDB0-27 RA5692 QR ATTIC UPRIGHT 212°F.	on Sprig
⊕	13	1/2"	5.6	HEAD17= RELIABLE AH56 RA5626 QR ATTIC UPRIGHT 212°F.	on Sprig
⊗	3	1/2"	5.6	HEAD4= VIKING VK300 QR BRASS UPRIGHT 200°F.	on Sprig

32 = TOTAL NUMBER OF HEADS DRY SYSTEM

Volume Dry of System

Diameter (in)	Volume (gal)	Approx. Len (ft)
1	1.67	37
4	115.19	156
Total	116.86	

SPINX FIRE PROTECTION
2709 ANNAPOLIS AVE. SUITE 102
PUYALLUP, WA 98372
TEL: 253-853-9900
FAX: 253-853-9900

PROJECT: EAST TOWN CROSSING CLUBHOUSE
ADDRESS: 2902 E PIONEER
CITY: PUYALLUP, WA 98372
TITLE: ATTIC DRY & SECTIONS FIRE SPRINKLER DRAWING

DATE: 09/15/2025
DRAWN: AJP/BJW
PAGE: 4 of 4

REVISIONS:

NO.	DESCRIPTION	DATE

GENERAL: R & R CONSTRUCTION CONSULTING LLC
ADDRESS: 7809 PACIFIC AVE
CITY: TACOMA, WA 98408
SUPERVISOR: ADAM RAYGOR
JOB PHONE: 253-961-9976

FIELD INSPECTIONS:
CITY OF PUYALLUP
PHONE: (253) 864-4165

STANDARD SYMBOLS:

⊕	Pipe Coupling
⊗	Pipe Drop
⊕	Pipe Rise
⊕	Pipe End Cap
⊕	2-WAY EARTHQUAKE BRACE
⊕	4-WAY EARTHQUAKE BRACE
⊕	PIPE HANGER
⊕	Hydraulic Reference Points
⊕	Elev. Below Top of Steel
⊕	Elev. Above Finished Floor
⊕	CEILING HEIGHT

WA. STATE LEVEL 3 STAMP

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building Planning
Engineering Public Works
Fire Traffic

Volume Dry of System

Diameter (in)	Volume (gal)	Approx. Len (ft)
1	1.67	37
4	115.19	156
Total	116.86	

SPRINKLER HEAD SCHEDULE

SYMBOL	COUNT	THREAD	K-FACTOR	DESCRIPTION	NOTE
⊗	16	3/4"	8.0	HEAD10= RELIABLE DDB0-27 RA5692 QR ATTIC UPRIGHT 212°F.	on Sprig
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⊗	3	1/2"	5.6	HEAD4= VIKING VK300 QR BRASS UPRIGHT 200°F.	on Sprig

32 = TOTAL NUMBER OF HEADS DRY SYSTEM

FP-3.0

File Name: ETC CLUBHOUSE.dwg