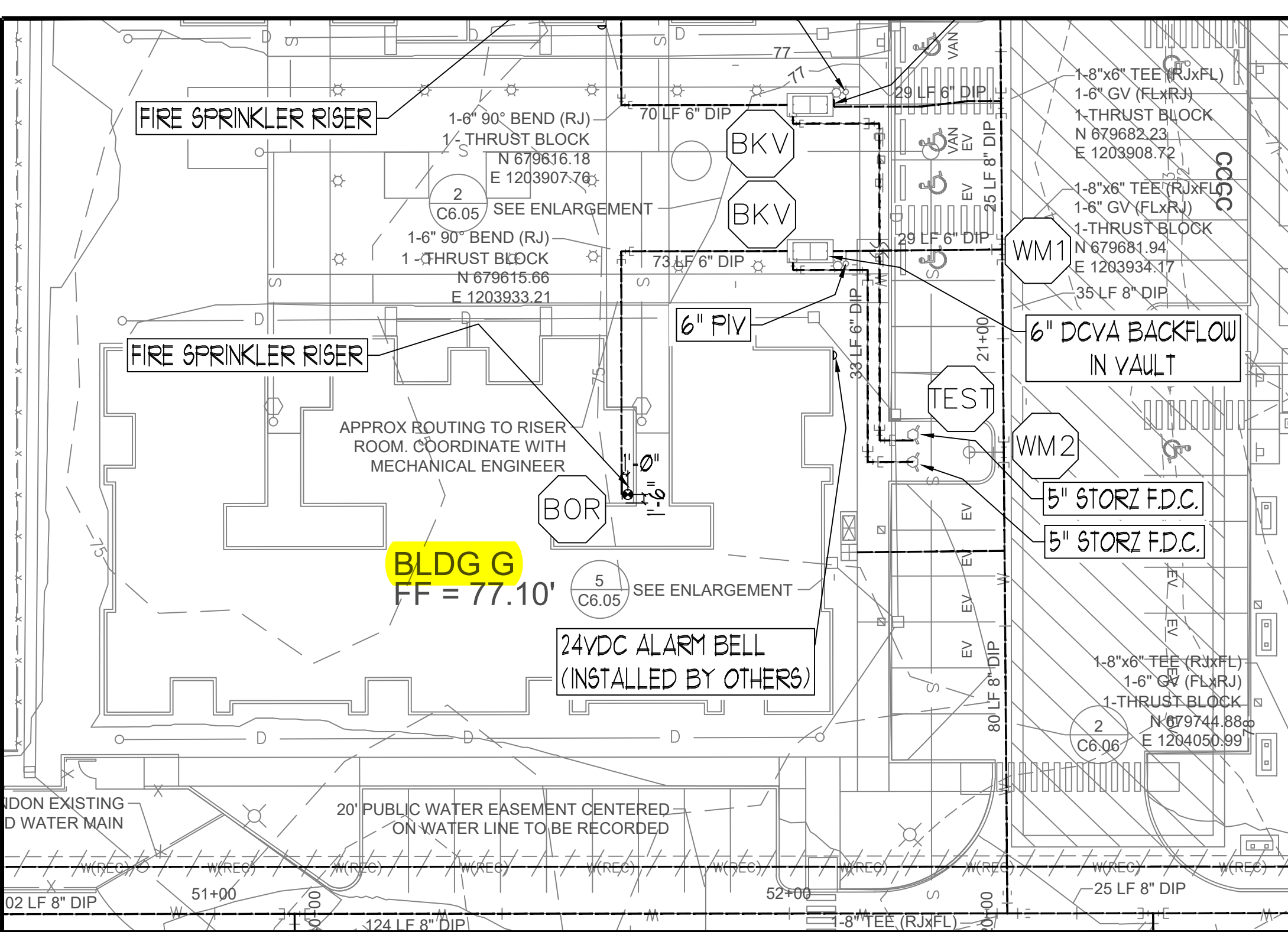
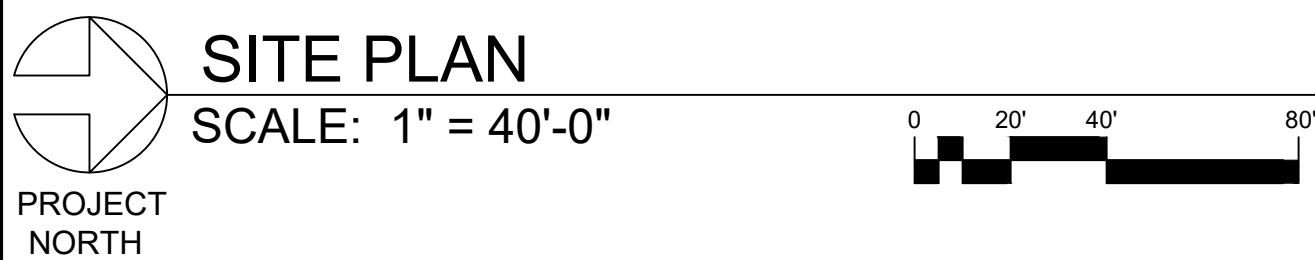
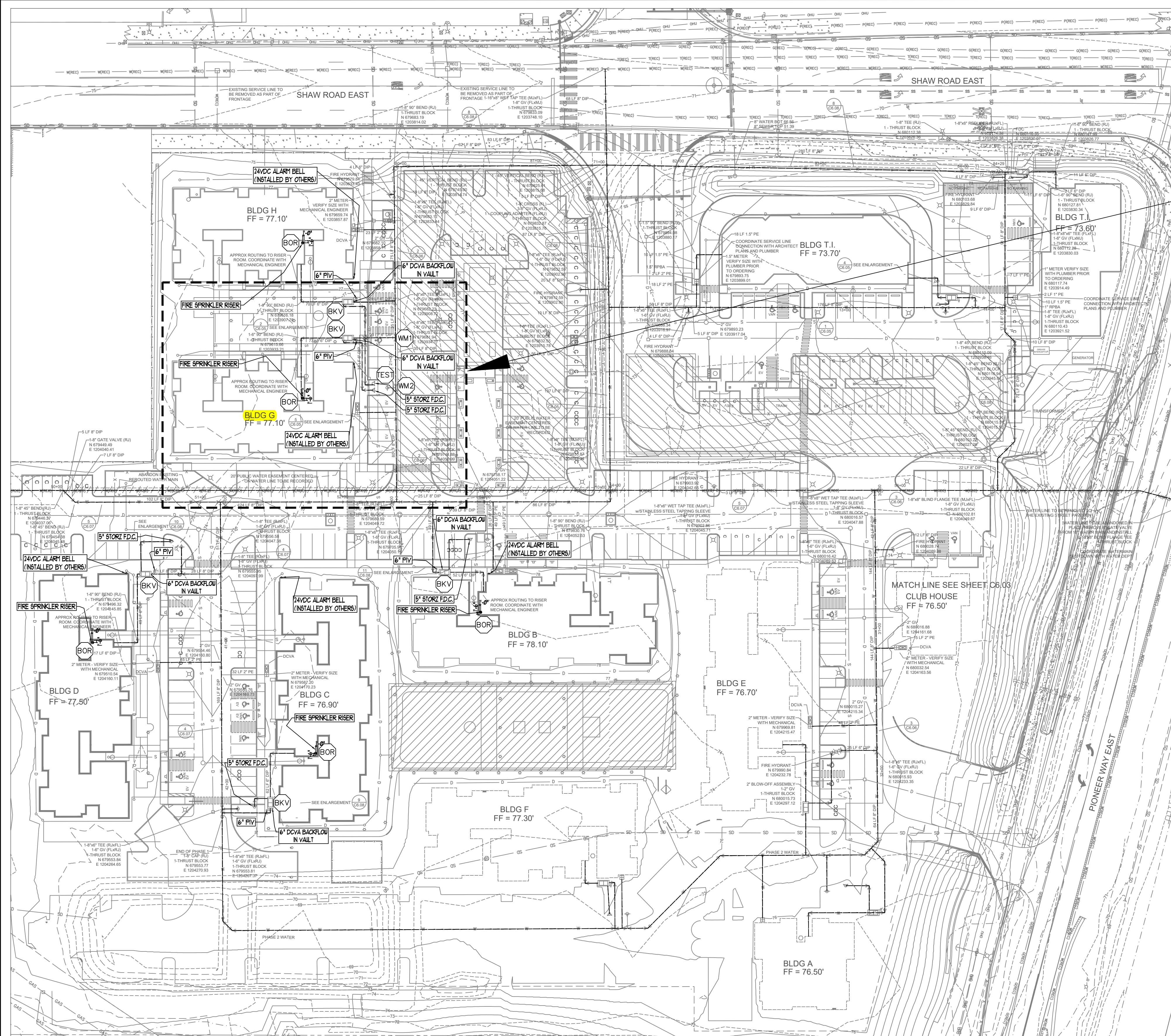


FLOW TEST INFORMATION	
STATIC	40 PSI
RESIDUAL	25 PSI
FLOWING	1560 GPM
LOCATION	AT SITE
BY WHO	CITY OF PUYALLUP WATER DIVISION

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building

Planning

Engineering

Public Works

Fire

Traffic

City of Puyallup
Fire
REVIEWED FOR COMPLIANCE

DDrake
01/21/2025
2:30:30 PM

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.

SPRINKLER HEAD SCHEDULE				
SYMBOL	COUNT	THREAD	K-FACTOR	DESCRIPTION
⊙	211	1/2"	4.9	HEAD1= VIKING VK468 WHITE RESIDENTIAL RECESSED PENDENT 175°F.
◄	44	1"	5.6	SIDE1= VIKING VK178 QR CHROME DRY HORIZONTAL SIDEWALL 200°F.
255 = TOTAL NUMBER OF HEADS BUILDING G				
				NOTE
				on Drop

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

REVISIONS
BY
DATE
DESCRIPTION

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

STANDARD SYMBOLS

WA. STATE LEVEL 3 STAMP

WASHINGTON STATE
DEC 31, 24
Joseph G. Faulkner
9491-0899-CEG Level 3
Sprinx Fire Protection, Inc.
SPRINF0111LS
 Date

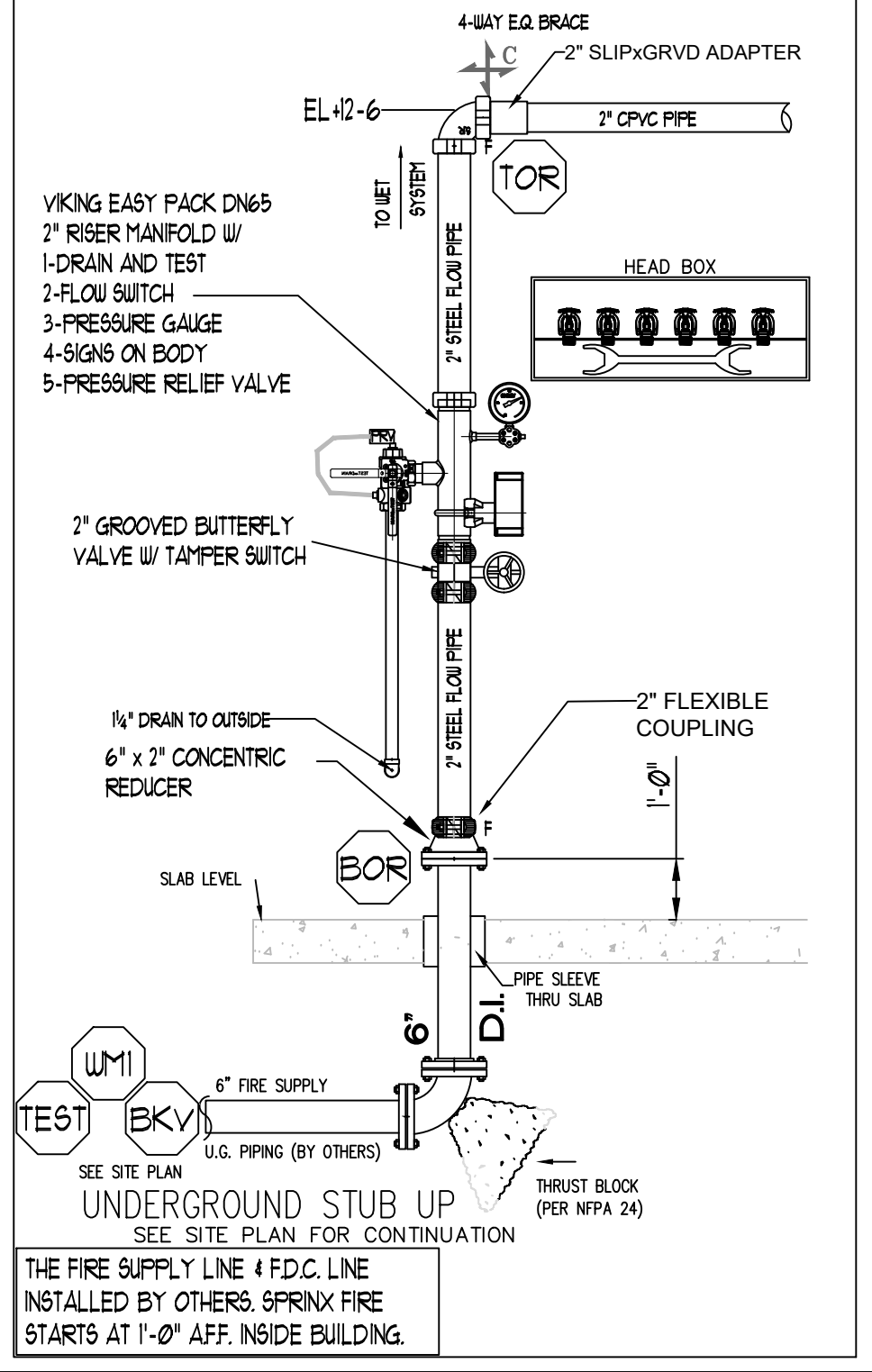
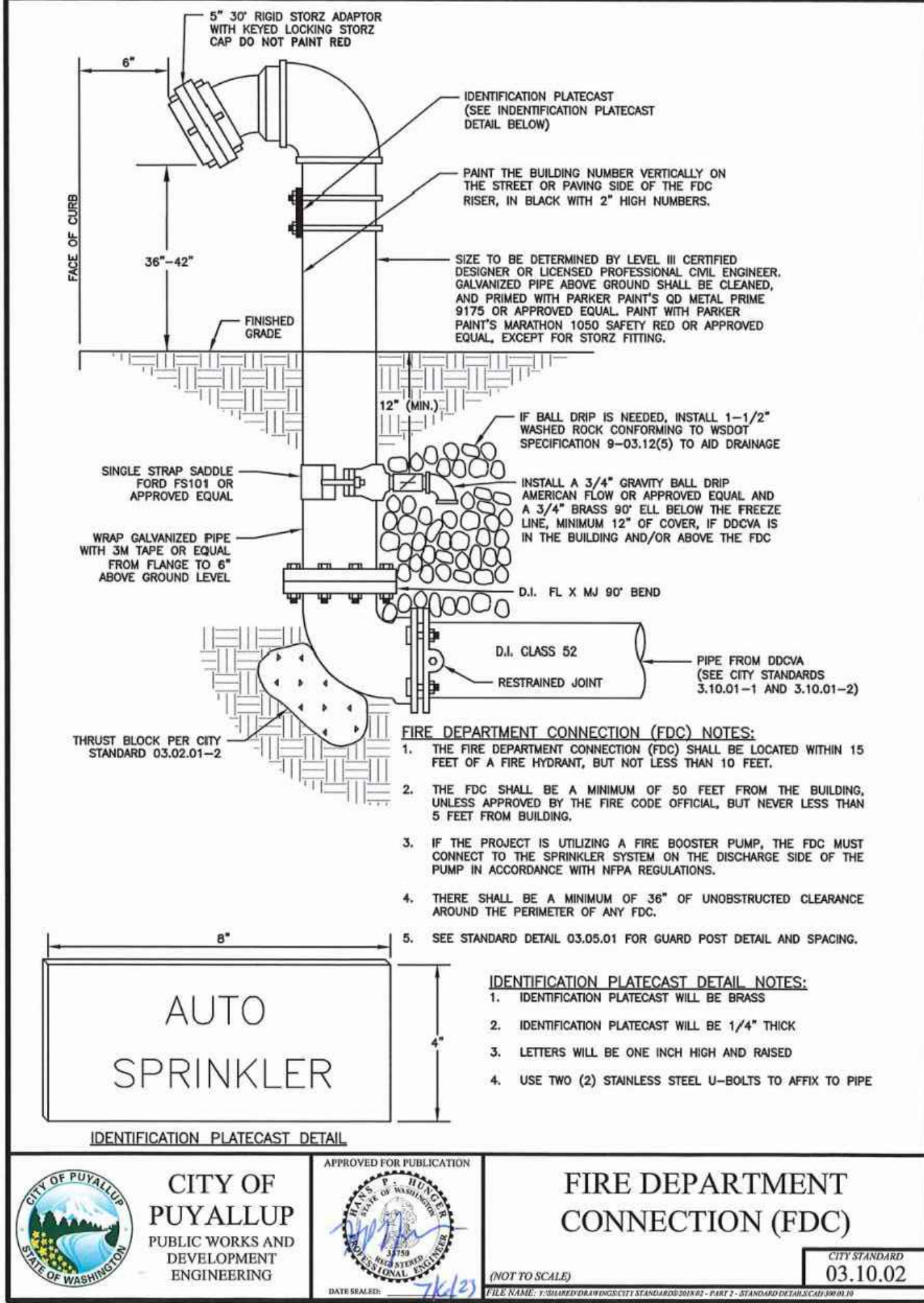
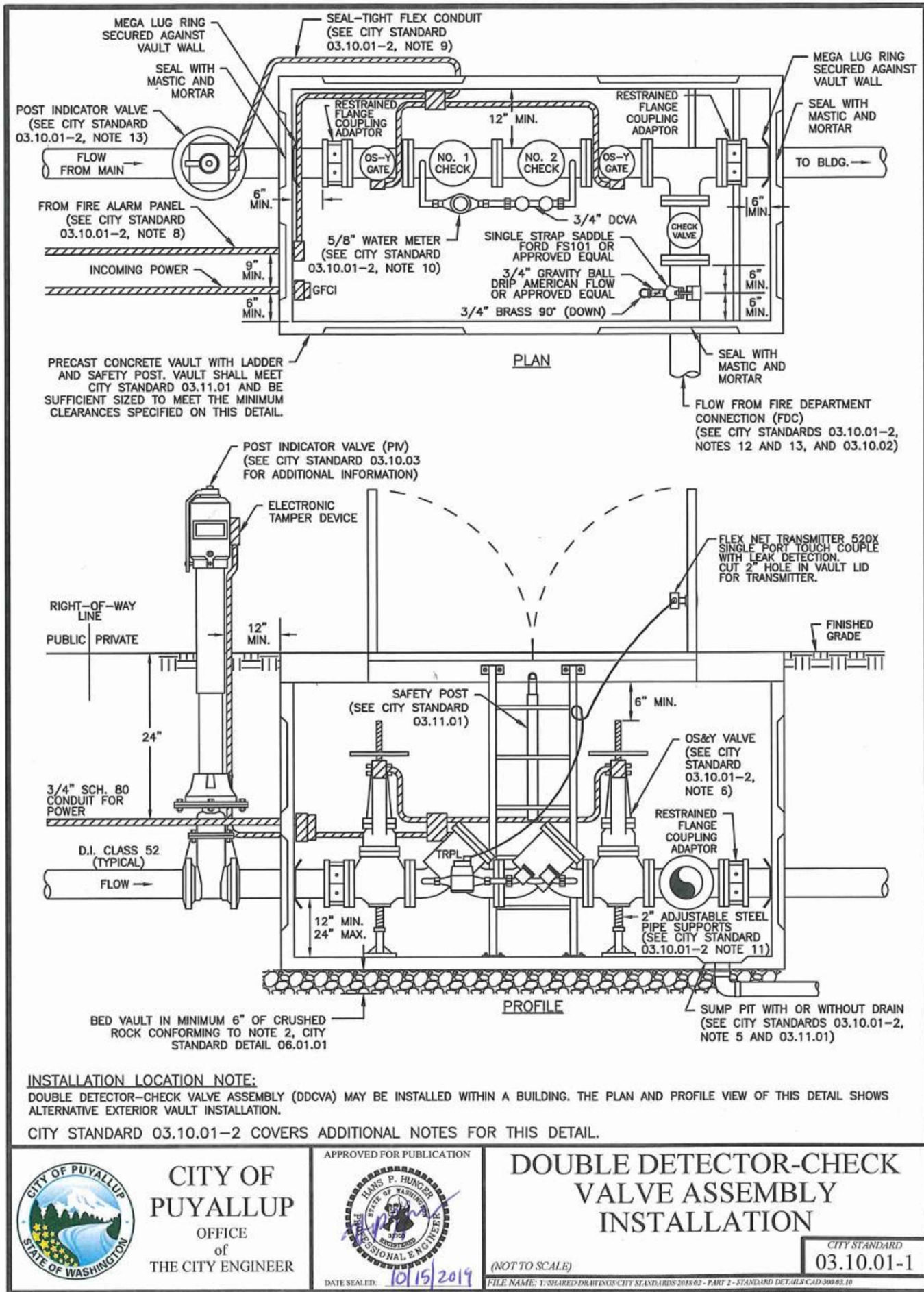
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24-093CM
Project No.
Sheet Title: SITE PLAN

FP-1.0

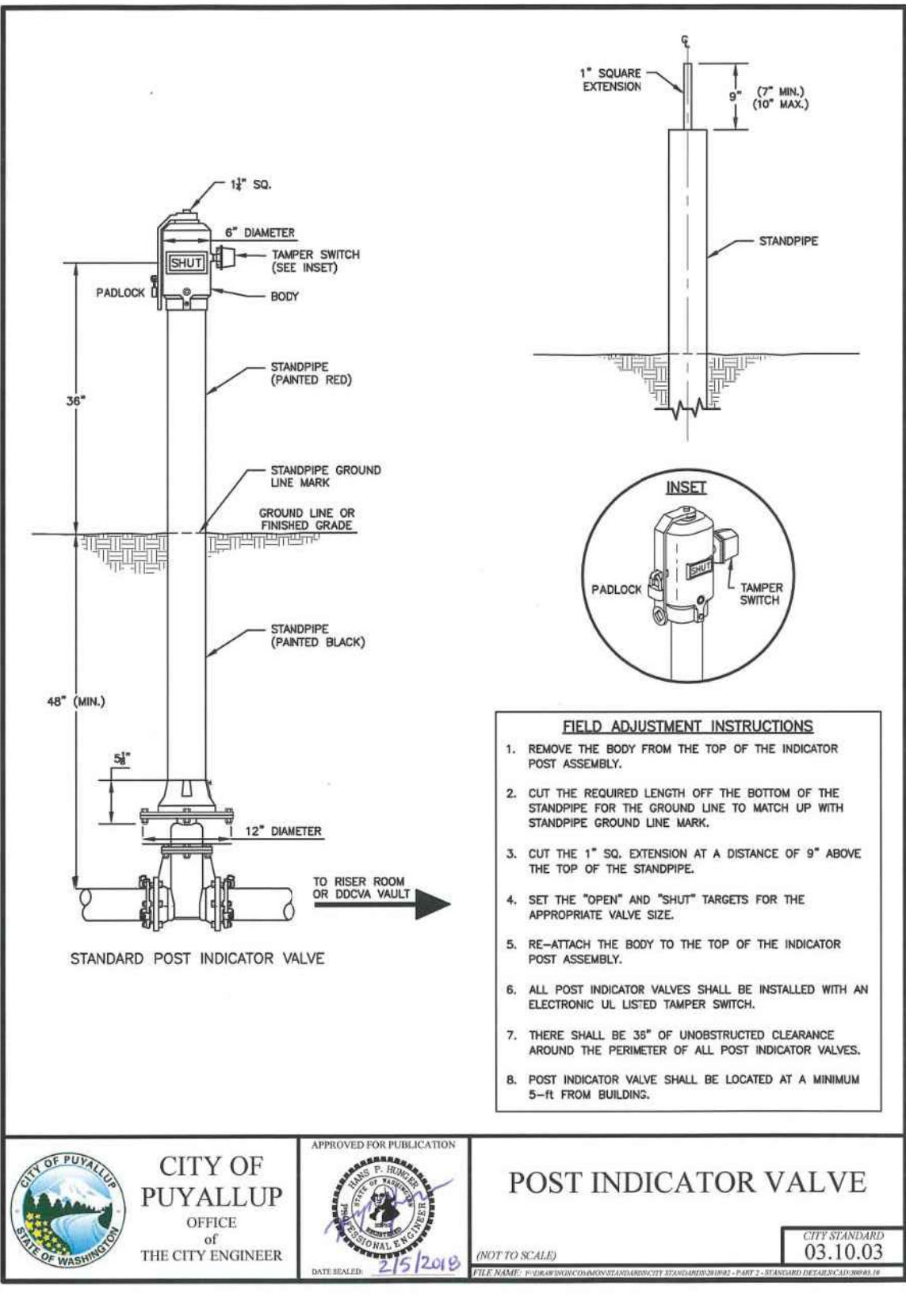
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A Fire
Sprinx
Corporation
Cent. Lic. # SPRINF01
EST. 1999
Gig Harbor, WA 98325-7335
Fax 253.853.9890

Date: 12/03/2024 Drawn: AJP Page: 1 of 4



- UNDERGROUND NOTES:**
- ALL UNDERGROUND BY OTHERS. CONTRACTOR TO BE STATE LICENSED AND CERTIFIED TO INSTALL UNDERGROUND PIPING PER WAC 212-80.
 - PIPE TYPE AND CLASS TO MEET LOCAL JURISDICTION APPROVAL.
 - ALL UNDERGROUND PIPING SHALL HAVE A MINIMUM 3'-0" BURY.
 - ALL UNDERGROUND PIPING SHALL BE U.L. LISTED AND/OR FM APPROVED FOR FIRE PROTECTION.
 - ALL UNDERGROUND PIPING SHALL BE RODDED AND/OR BLOCKED IN ACCORDANCE WITH THE SPECIFICATIONS AND NFPA 24.
 - ALL UNDERGROUND PIPING SHALL BE HYDROSTATICALLY TESTED AT NOT LESS THAN 200 PSI FOR TWO HOURS IN ACCORDANCE WITH NFPA 24.
 - 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
 - ALL UNDERGROUND INSTALLATION AND TESTING TO BE WITNESSED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
 - 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.



SPRINKLER HEAD SCHEDULE				
SYMBOL	COUNT	THREAD	K-FACTOR	DESCRIPTION
⊙	211	1/2"	4.9	HEAD1= VIKING VK468 WHITE RESIDENTIAL RECESSED PENDENT 175°F.
◀	44	1"	5.6	SIDE1= VIKING VK178 QR CHROME DRY HORIZONTAL SIDEWALL 200°F.
255 = TOTAL NUMBER OF HEADS BUILDING G				

PROJECT

EAST TOWN CROSSING BUILDING G

BY

REVISIONS

DESCRIPTION

DATE

GENERAL

R & R CONSTRUCTION CONSULTING LLC

ADDRESS

7809 PACIFIC AVE
TACOMA, WA 98408

SUPER.

ADAM RAYGOR

JOB PHONE #

253-961-9976

FIELD INSPECTIONS

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

9491-0699-CEG Level 3

Sprinx Fire Protection, Inc.

SPRINFP011LS

Signature

Date

City of Puyallup

Development & Permitting Services

ISSUED PERMIT

Building Planning

Engineering Public Works

Fire Traffic

Project No.

24-093CM

Sheet Title:

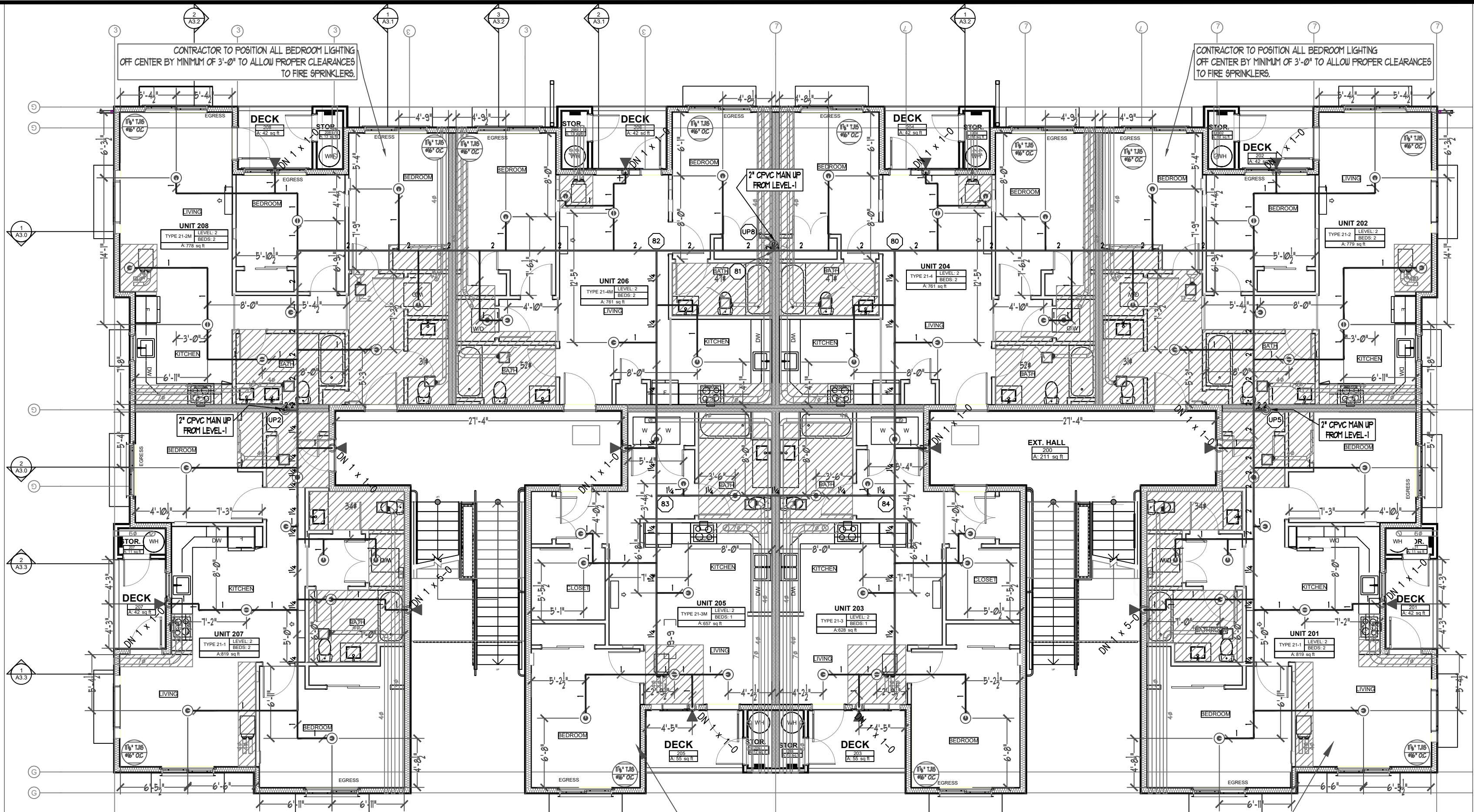
DETAILS

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FP-1.1

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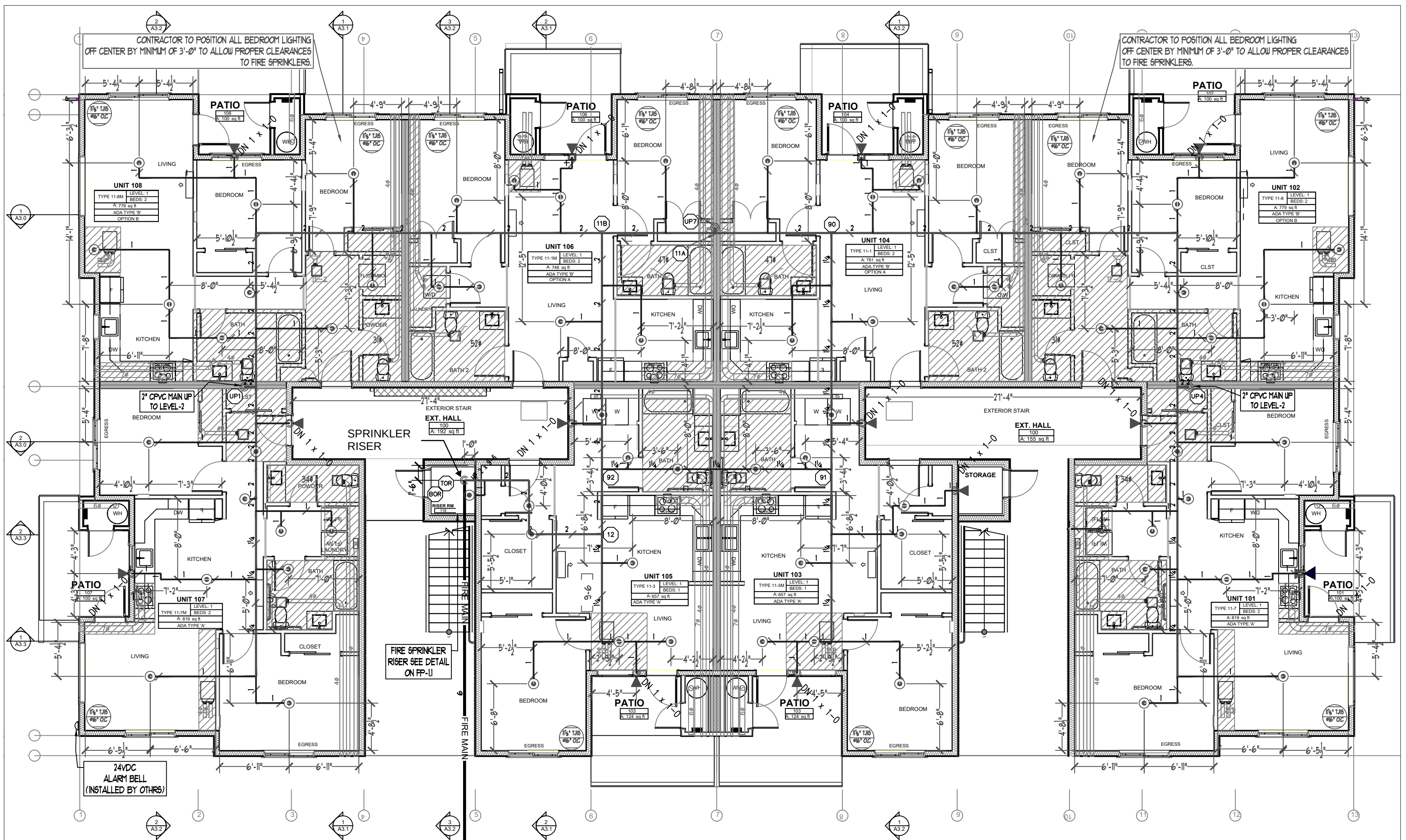
ETC SITE PLAN.dwg



LEVEL-2 FIRE SPRINKLER PLAN
SCALE: 1/8" = 1'-0"
PROJECT NORTH

CONTRACTOR TO POSITION ALL BEDROOM LIGHTING OFF CENTER BY MINIMUM OF 3'-0" TO ALLOW PROPER CLEARANCES TO FIRE SPRINKLERS.

CONTRACTOR TO POSITION ALL COMMON SPACE LIGHTING IN ACCORDANCE WITH NFPA 13



LEVEL-1 FIRE SPRINKLER PLAN
SCALE: 1/8" = 1'-0"
PROJECT NORTH

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building

Planning

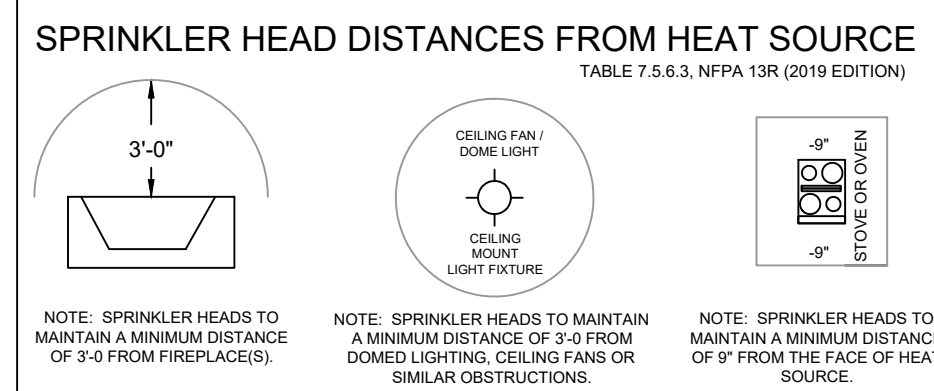
Engineering

Public Works

Fire

Traffic

MINIMUM DISTANCES FROM HEAT SOURCES		
TYPE OF OPEN OR RECESSED FIREPLACE	30"	12"
FRONT OF RECESSED FIREPLACE	60"	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	6"	3"
LIGHT FIXTURE	6"	3"
0W - 250W	6"	3"
250W - 450W	12"	6"



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	0
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	5
4 FT 6 IN TO LESS THAN 5 FT	7
5 FT TO LESS THAN 5 FT 6 IN	7
5 FT 6 IN TO LESS THAN 6 FT	9
6 FT TO LESS THAN 6 FT 6 IN	11
6 FT 6 IN TO LESS THAN 7 FT	14
7 FT OR GREATER	14

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
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	*

* Solvent Cement can be applied at a temperature below 40 deg. F for 2" and larger, however the temperature of the system must be raised to 40 deg. F or higher and allowed to cure per the above recommendations prior to pressure testing. When drying cement, pipe or fittings in from the outside, in certain they are brought up to room temperature before using the 60 to 120 deg. F cure schedule.

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 MANUFACTURERS LISTING.
- SPRINKLER LOCATIONS AND SPACING PER NFPA 13R AND MANUFACTURERS 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 ENGINEERS 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 MANUFACTURERS 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: SLUZZMASTER CPVC
MAX SPRINKLER SPACING REQUIREMENTS: 16x16' @13 GPM, 18x18' @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 CEILINGS 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:

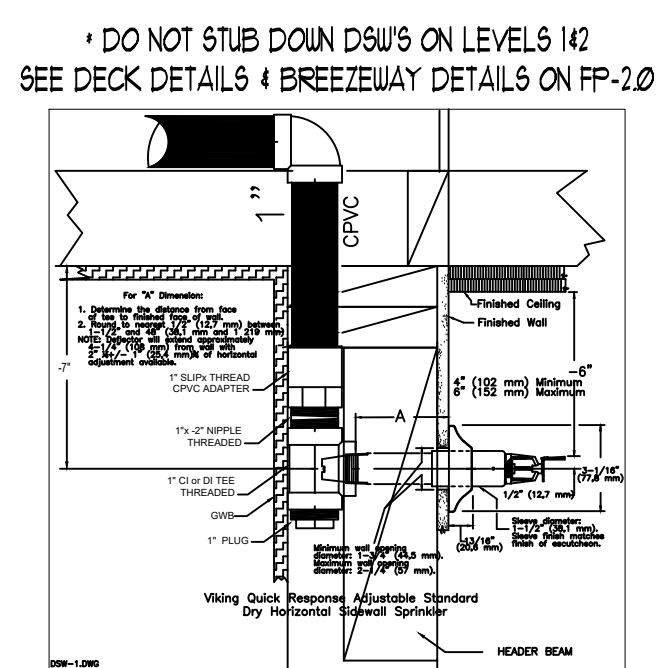
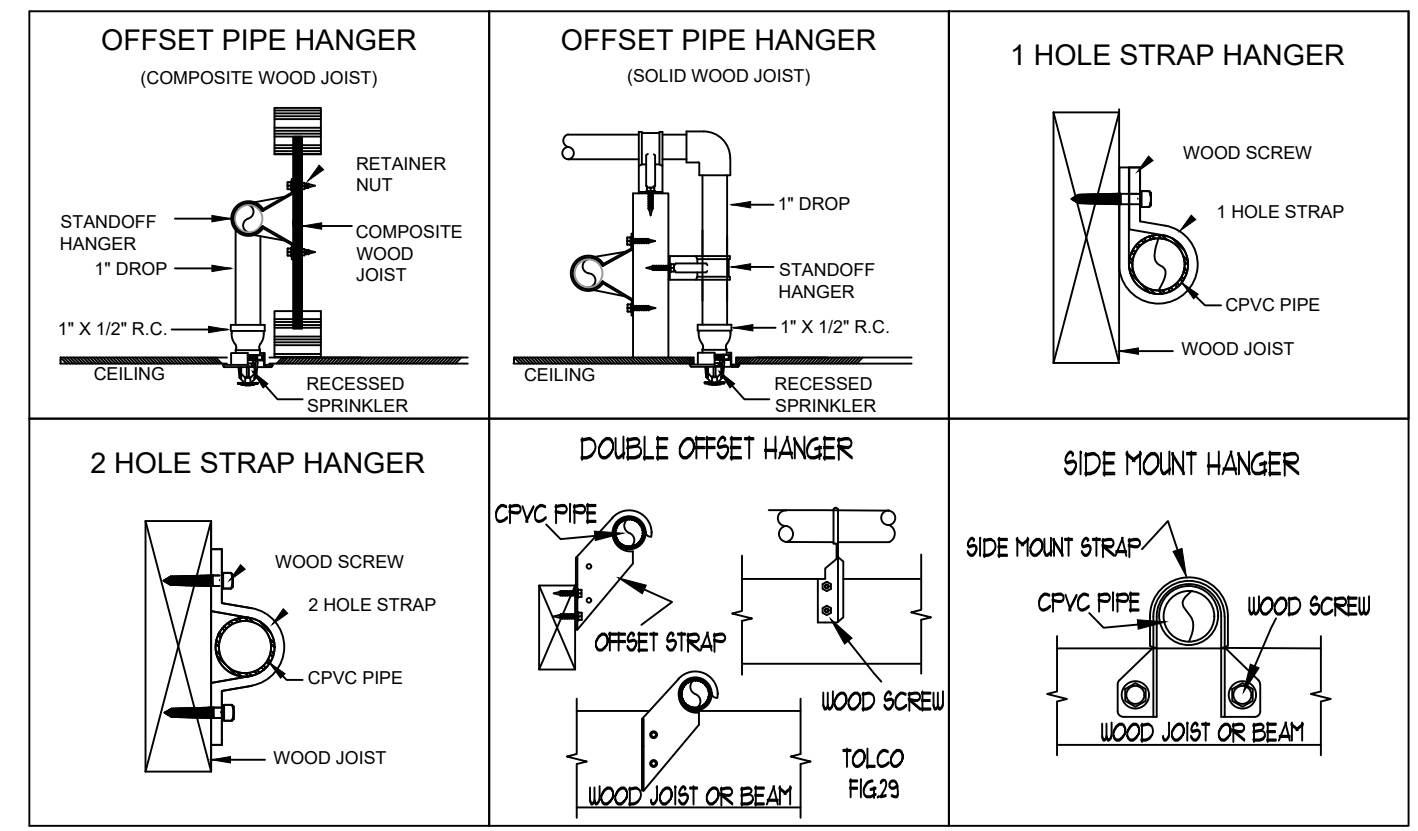
- DO NOT STACK, SUPPORT, HANG EQUIPMENT, OR HANG FLEXIBLE WIRE/CABLE, ESPECIALLY COMMUNICATIONS CABLE, OR OTHER MATERIAL ON THE FIRE SPRINKLER. DO NOT EXPOSE CPVC PRODUCTS TO INCOMPATIBLE SUBSTANCES, SUCH AS CUTTING OILS, NON-WATER-BASED PAINTS, PACKING OILS, TRADITIONAL PIPE THREAD PASTE AND DOPE, FUNGICIDES, 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.

DROPPED CEILING

TABLE 1 MAXIMUM SUPPORT SPACING DISTANCE END LINE SPRINKLER HEAD DROP ELBOW		TABLE 2 FOR 135 / (ASTM F442) HANGER SPACING	
PIPE SIZE inches	SYSTEM PRESSURE	NOMINAL SIZE inches	MAX SPACING feet (m)
3/4"	< 100 psi	3/4"	5.5' (1.7)
1"	9"	1"	6.0' (1.8)
1 1/4"	6"	1 1/4"	6.5' (2.0)
1 1/2"	9"	1 1/2"	7.0' (2.1)
2"	16"	2"	8.0' (2.4)
2 1/2"	12"	2 1/2"	9.0' (2.7)
3"	12"	3"	10.0' (3.0)



SPRINKLER HEAD SCHEDULE			
SYMBOL	COUNT	THREAD	DESCRIPTION
●	211	1/2"	HEAD1= VIKING VK468 WHITE RESIDENTIAL RECESSED PENDENT 175°F.
◄	44	1"	SIDE1= VIKING VK178 QR CHROME DRY HORIZONTAL SIDEWALL 200°F.
255 = TOTAL NUMBER OF HEADS BUILDING G			

PROJECT: EAST TOWN CROSSING BUILDING G

ADDRESS: 2902 E PIONEER

CITY: PUYALLUP, WA 98372

TITLE: FIRE SPRINKLER LEVELS 1 & 2 DRAWING

BY: [Signature]

DATE: 12/03/2024

Drawn: AJP

Page: 3 of 4

REVISIONS

DISCREPTION	DATE

GENERAL

R & R CONSTRUCTION CONSULTING LLC

7809 PACIFIC AVE

TACOMA, WA 98408

SUPER: ADAM RAYGORD

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

3 Expires 12/31/24

WASHINGTON STATE

CERTIFICATE OF COMPETENCY

FIRE SPRINKLER SYSTEMS

Joseph G. Faulkner

9491-0899-CEG Level 3

Sprinkler Fire Protection, Inc.

SPRINF0111LS

Signature: [Signature]

Date: 12/16/2024

Project No: 24-093CM

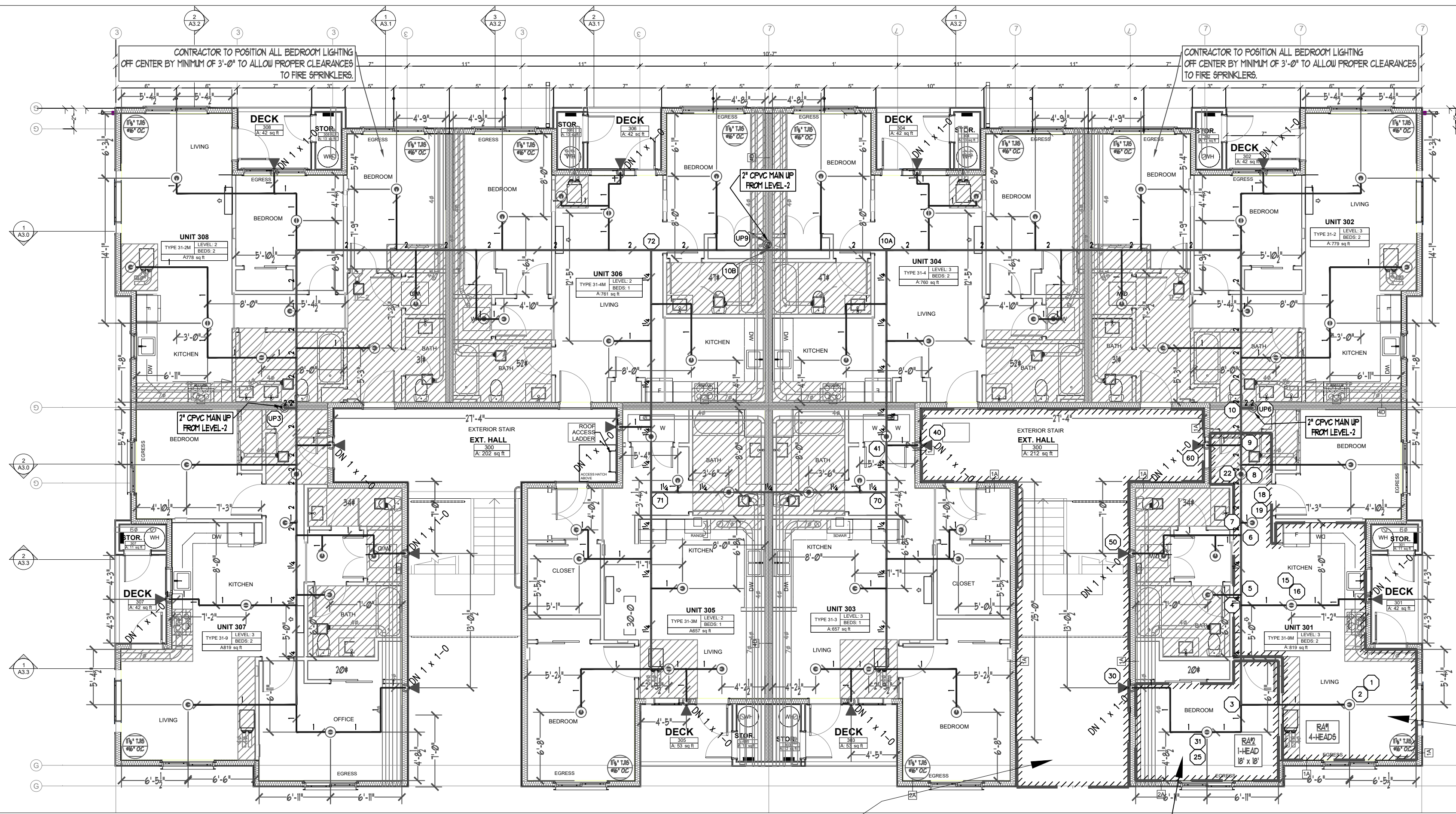
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Sheet Number: 24-093CM

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

FP-2.0

File Name: ETC Building G.dwg



LEVEL-3 FIRE SPRINKLER PLAN
SCALE: 1/8" = 1'-0"
PROJECT NORTH

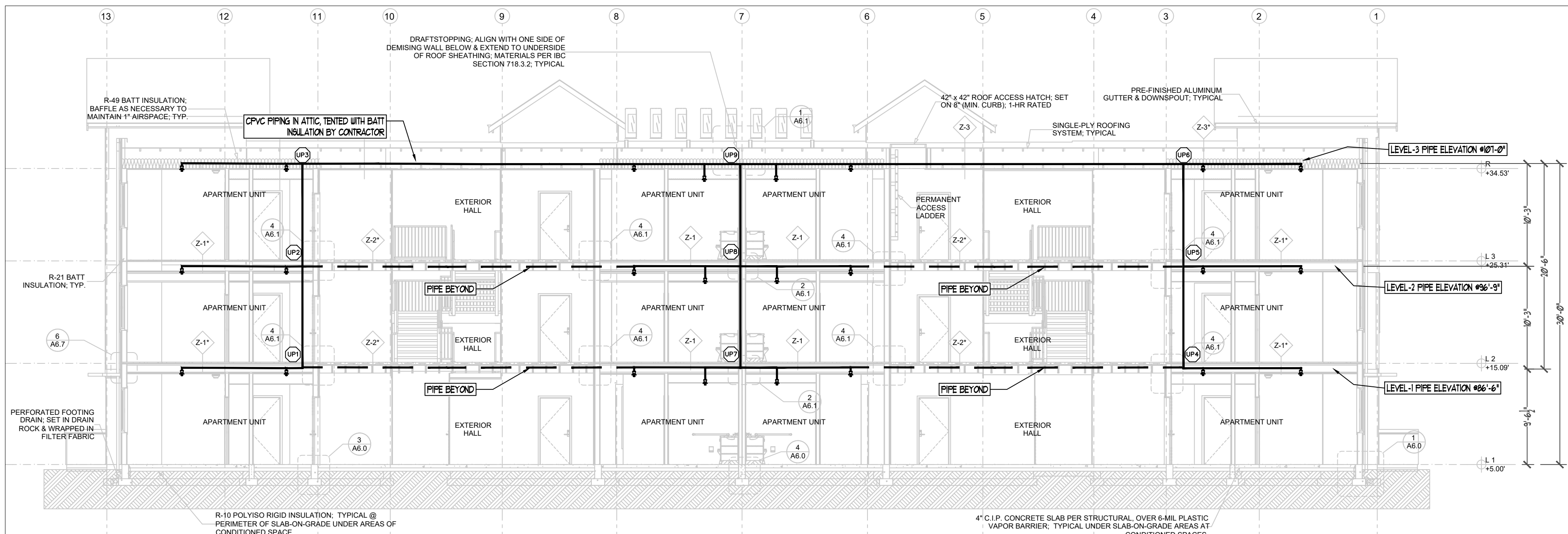
DROPPED CEILING

Hydraulic Calculation Data	
Design Area Number: RA#3	
Design Area Location: LEVEL-3 SOUTH STAIRWELL	
Hazard/Occupancy: LIGHT HAZARD	
Design Density: 0.10	
Design Area: 273sqft	
Number of Sprinklers in Design Area: 4	
System Flow: 62.943	
System Pressure: 32.986 SAFETY FACTOR = 6.97 PSI @ 17.5%	
Hose Allowance (Included): 0	

Hydraulically Calculated System	
This system as shown on: SPRINX FIRE PROTECTION	
company print no: FP-3.0	dated: 12/03/2024
for: REMOTE AREA 03 - LEVEL-3 SOUTH STAIRWELL	
at: ETC APTS. BUILDING-G	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: 4 HEAD SIDEWALL CALC	sq ft (m2) when supplied with water at the rate of: 62.943 GPM (L/min)
at: 25.484 psi (bars) at the base of the riser	
Hose stream allowance of: 0 GPM (L/min)	
is included in the above.	
Occupancy Classification: NFPA-13R (2019)	
Commodity Classification: N/A	
Maximum Storage Height: N/A	
Installed By: SPRINX FIRE PROTECTION, INC.	

Hydraulic Calculation Data	
Design Area Number: RA#2	
Design Area Location: LEVEL-3 UNIT 301 BEDROOM	
Hazard/Occupancy: RESIDENTIAL NFPA 13R	
Design Density: 0.05	
Design Area: 324	
Number of Sprinklers in Design Area: 1	
System Flow: 17.00 @ TEST	
System Pressure: 33.372 SAFETY FACTOR = 6.62 PSI @16.6%	
Hose Allowance (Included): 0	

Hydraulically Calculated System	
This system as shown on: SPRINX FIRE PROTECTION	
company print no: FP-3.0	dated: 12/03/2024
for: REMOTE AREA 02 - LEVEL-3 UNIT 301 BEDROOM	
at: ETC APTS. BUILDING-G	contract no: 24-093CM
is designed to discharge at a rate of: .05 GPM	
(L/min) per sq ft (m2) of floor area over a maximum area of: 18" x 18" MAX SPACING	sq ft (m2) when supplied with water at the rate of: 17.00 GPM (L/min)
at: 25.295 psi (bars) at the base of the riser	
Hose stream allowance of: 0 GPM (L/min)	
is included in the above.	
Occupancy Classification: NFPA-13R (2019)	
Commodity Classification: N/A	
Maximum Storage Height: N/A	
Installed By: SPRINX FIRE PROTECTION, INC.	



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

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building

Planning

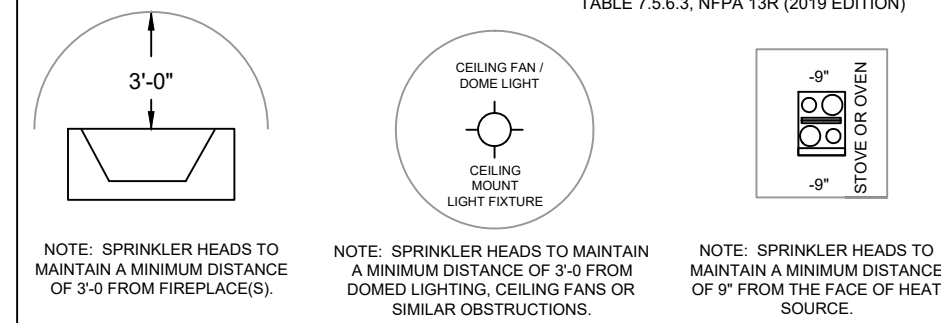
Engineering

Public Works

Fire

Traffic

MINIMUM DISTANCES FROM HEAT SOURCES	
Side of Open or Recessed Fireplace	36"
Front of Recessed Fireplace	60"
Coal-or Wood-Burning Stove	42"
Kitchen Range	18"
Wall Oven	18"
Hot Air Flues	18"
Uninsulated Heat Ducts	18"
Uninsulated Hot Water Pipes	12"
Side of Ceiling or Wall Mounted Hot Air Diffusers	24"
Front of Wall-Mounted Hot Air Diffusers	36"
Hot Water Heater or Furnace	6"
Light Fixture	12"
0W - 250W	6"
250W - 490W	12"



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 0 IN TO LESS THAN 1 FT 6 IN	0
1 FT 6 IN TO LESS THAN 2 FT 0 IN	1
2 FT 0 IN TO LESS THAN 2 FT 6 IN	1
2 FT 6 IN TO LESS THAN 3 FT 0 IN	1
3 FT 0 IN TO LESS THAN 3 FT 6 IN	3
3 FT 6 IN TO LESS THAN 4 FT 0 IN	3
4 FT 0 IN TO LESS THAN 4 FT 6 IN	3
4 FT 6 IN TO LESS THAN 5 FT 0 IN	7
5 FT 0 IN TO LESS THAN 5 FT 6 IN	7
5 FT 6 IN TO LESS THAN 6 FT 0 IN	7
6 FT 0 IN TO LESS THAN 6 FT 6 IN	9
6 FT 6 IN TO LESS THAN 7 FT 0 IN	11
7 FT OR GREATER	14

Note-Minimum Cure Prior To Pressure Testing (200 PSI)	
Pipe Size	Ambient Temperature During Cure Period
3/4"	60 TO 120 Deg. F 40 TO 59 Deg. F 0 TO 39 Deg. F
1"	45 MINUTES 1 1/2 HOURS 24 HOURS
1 1/4" & 1 1/2"	45 MINUTES 1 1/2 HOURS 24 HOURS
2"	6 HOURS 36 HOURS
2 1/2" & 3"	8 HOURS 72 HOURS

* Solvent Cement can be applied at a temperature below 40 deg. F for 2" and larger, however, the temperature of the system must be raised to 40 deg. F or higher and allowed to cure per the above recommendations prior to pressure testing. When drying cement, pipe or fittings in from the outside, be certain they are brought up to room temperature before using the 60 to 120 deg. F cure schedule.

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.
 - SPRINKLERS SHALL NOT BE REQUIRED IN ATTICS OR CRAWL SPACES AND PANTRIES THAT DO NOT EXCEED 24 SQ. FT. AND HAVE WALLS AND CEILINGS SURFACED WITH NONCOMBUSTIBLE OR LIMITED COMBUSTIBLE MATERIALS.
 - 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 OWNERS RESPONSIBILITY TO PROVIDE A RELIABLE WATER SUPPLY THAT IS CAPABLE OF MEETING THE MOST DEMANDING AREA.

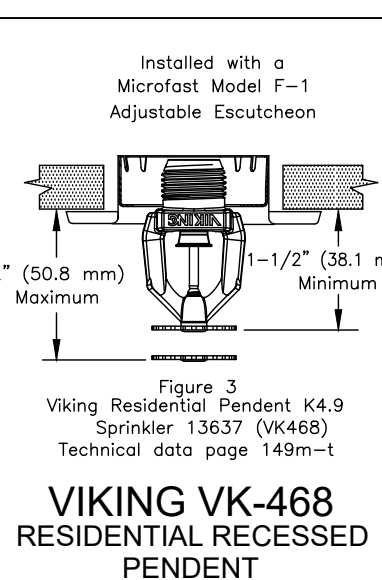
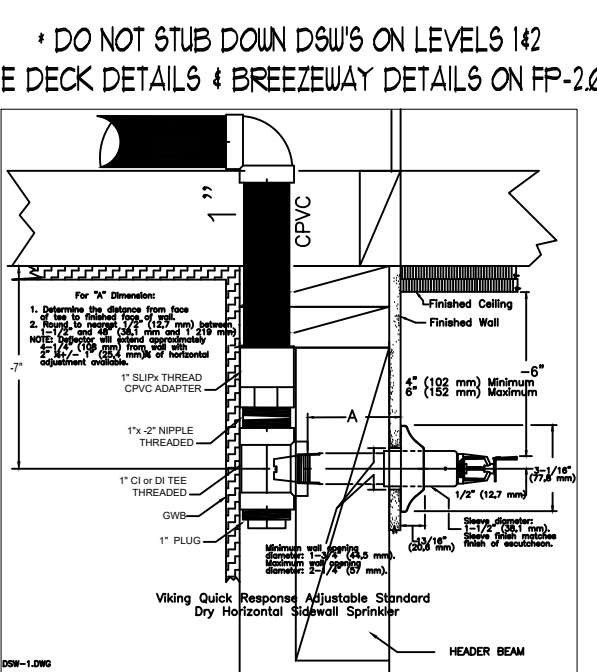
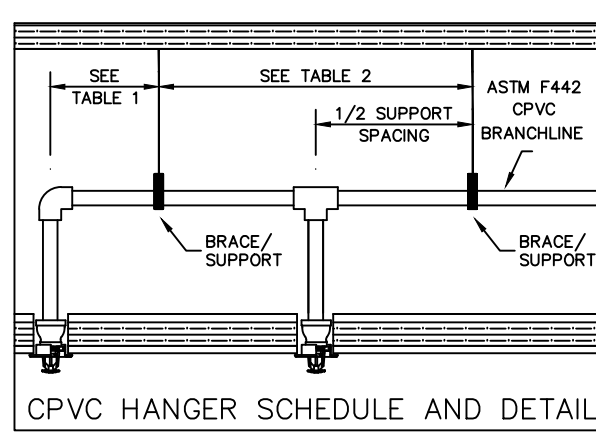
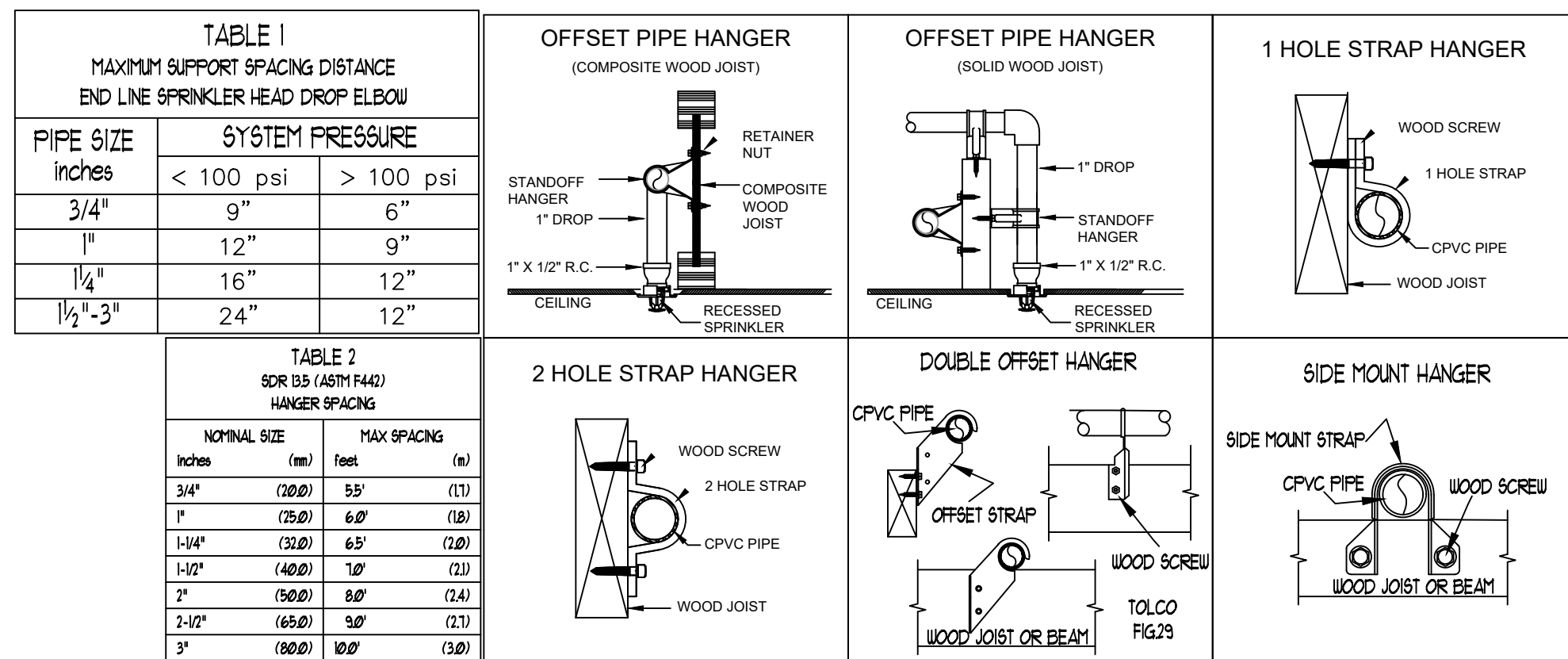
PROJECT DETAILS
NFPA CODE: 13R 2019
SYSTEM TYPE: WET SYSTEM
PIPE TYPE: BLAZEMASTER CPVC
MAX SPRINKLER SPACING REQUIREMENTS: 16"x16" @13 GPM, 18"x18" @17 GPM (1 HEAD RM.)
MINIMUM SPRINKLER SPACING: 8" BETWEEN SPRINKLERS
MINIMUM DESIGN DENSITY: 0.05 GPM/SQ.FT.

- NFPA & AHJ REQUIREMENTS**
- THE DESIGNER SHALL BE RESPONSIBLE FOR 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 CEILINGS SURFACED WITH NONCOMBUSTIBLE OR LIMITED COMBUSTIBLE MATERIALS.
 - SPRINKLERS SHALL NOT BE REQUIRED IN ATTICS OR CRAWL SPACES.
 - 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 DOPES, 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.



SYMBOL				COUNT		THREAD		K-FACTOR		DESCRIPTION		NOTE	
●				211		1/2"		4.9		HEAD1= VIKING VK468 WHITE RESIDENTIAL RECESSED PENDENT 175T.		on Drop	
◄				44		1"		5.6		SIDE1= VIKING VK178 QR CHROME DRY HORIZONTAL SIDEWALL 200T.			
255 = TOTAL NUMBER OF HEADS BUILDING G													

PROJECT: EAST TOWN CROSSING BUILDING G
ADDRESS: 2902 E PIONEER
CITY: PUYALLUP, WA 98372
TITLE: FIRE SPRINKLER LEVEL 3 DRAWING

REVISIONS
DISCREPANCY
DATE

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

STANDARD SYMBOLS
Pipe Confiting
Pipe Drop
Pipe Rise
Pipe End Cap
2-WAY EARTHQUAKE BRACE
4-WAY EARTHQUAKE BRACE
PIPE HANGER
Hydraulic Reference Points
Elev. Above Top of Steel
Elev. Above Finished Floor
Ceiling Height

WA. STATE LEVEL 3 STAMP
WASHINGTON STATE
CERTIFICATE OF COMPETENCY
FIRE SPRINKLER SYSTEMS
Joseph G. Faulkner
9491-0899-CEG Level 3
Sprinx Fire Protection, Inc.
SPRINFP0111LS
Joseph P. Faulkner 10/10/2024
Signature Date

Project No: 24-093CM
Sheet Title: BLDG-G LEVEL 3
Sheet Number: 4 of 4
Date: 12/03/2024
Drawn: AJP

SPRINX
FIRE PROTECTION
EST. 1999
A Fire
Sprinkler
Corporation
Cent. Lic. # SPRINPOI

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

FP-3.0

File Name: ETC Building G.dwg