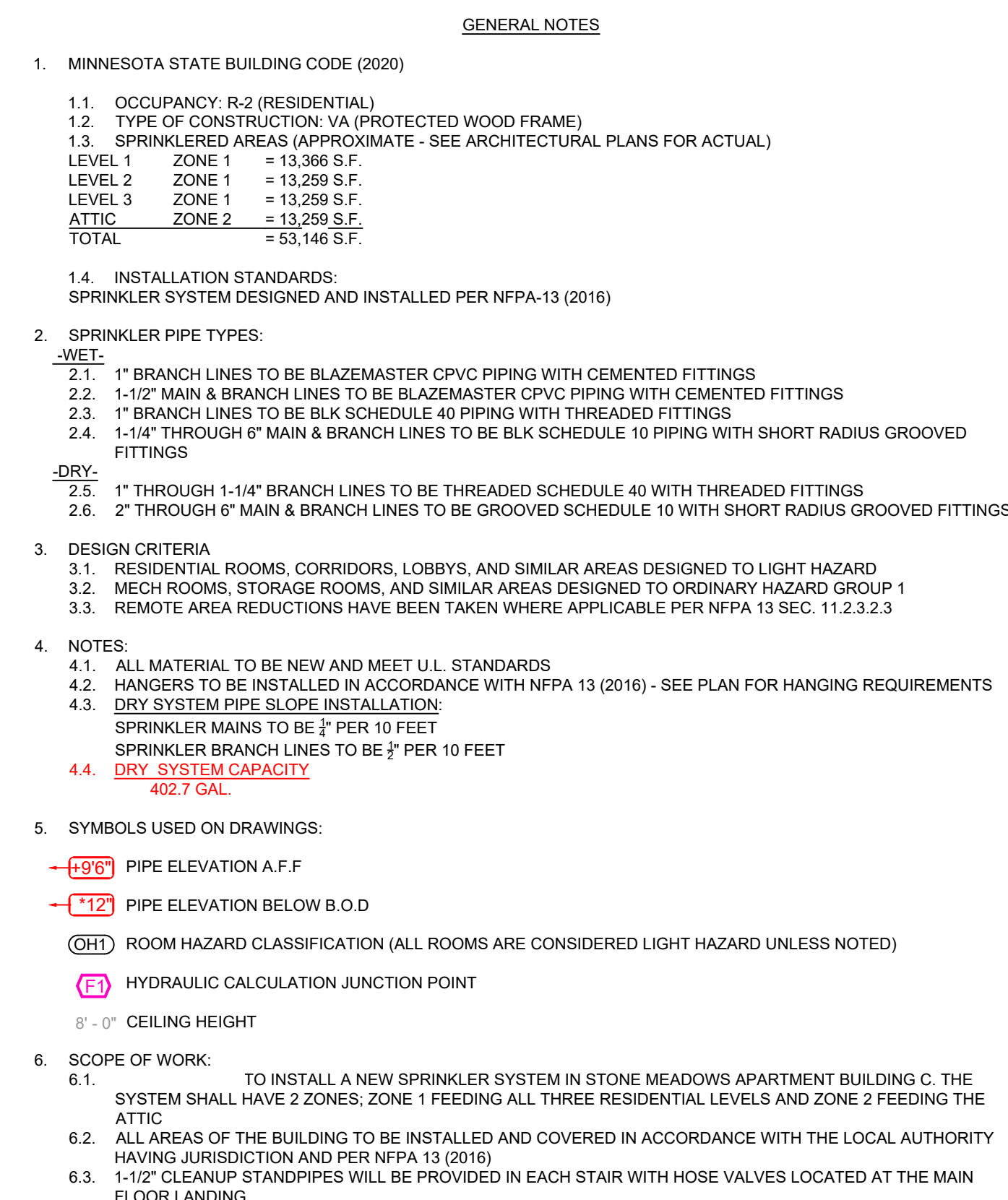




24" x 24"

BLANK TILES

LOCATE SPRINKLER AT

NFPFA 13 STEEL PIPE HANGER SPACING (EXCEPT LIGHT WALL THRD PIPING)		NFPFA 13 CPVC PIPE HANGER SPACING	
NOMINAL SIZE inches	MAX SPACING feet	NOMINAL SIZE inches	MAX SPACING feet
1"	12'-0"	1"	6'-0"
1-1/4"	12'-0"	1-1/4"	6'-6"
1-1/2"	15'-0"	1-1/2"	7'-0"
2"	15'-0"	2"	8'-0"
2-1/2"	15'-0"		
3"	15'-0"		
4" & LARGER	15'-0"		



SYM	CONT	POSITION	FINISH	TEMP	K	NPT	SN	MFG	MODEL#	ESCU/CON	MAX SPACING
227	PENDENT	WHITE	155°	4.00	12"	V2740	VICTALIC	FLR-RES	SEMI-RECESS	18" x 1" U.N.O.	
58	PENDENT	BRASS	200°	5.00	12"	V2710	VICTALIC	FLR-SPQR	SEMI-RECESS	22" SF (LH) - 130 SF (OH)	
16	UPRIGHT / SIDEWALL	BRASS	200°	5.00	12"	V2710	VICTALIC	FLR-SPQR	SEMI-RECESS	14" x 1" U.N.O.	
30	SIDEWALL	WHITE	200°	5.00	12"	V2708	VICTALIC	FLR-QRWSW	SEMI-RECESS	196 SF (LH) - 100 SF (OH)	
116	SIDEWALL	WHITE	155°	4.00	12"	V4431	VICTALIC	FLR-RES	SEMI-RECESS	16" x 1" U.N.O.	
8	SIDEWALL	WHITE	155°	4.00	12"	V4486	VIKING	V4486	SEMI-RECESS	16" x 1" U.N.O.	
16	UPRIGHT / SIDEWALL	BRASS	200°	5.00	12"	R2624	RELIABLE	D056-6	N/A	6" x 4"	
16	UPRIGHT	BRASS	200°	5.00	12"	R2624	RELIABLE	D056-6	N/A	225 SF (LH) - 130 SF (OH)	
44	UPRIGHT / SPRING	BRASS	212°	5.00	12"	R2626	RELIABLE	A56	N/A	10" x 15"	
27	UPRIGHT	BRASS	200°	0.00	34"	RAS622	RELIABLE	D060-6	N/A	6" x 6" 0" x 27"	

592 TOTAL SPRINKLERS

Architectural section drawing of a three-story building. The drawing shows the structural frame, including columns, beams, and floor slabs. Key features include:

- Roof:** A gabled roof with a pitch of $6:12$ or 45° . The roof is labeled "ATRIC COVERED WITH DRY PIPE SPRINKLER SYSTEM".
- Level 3:** The top floor, labeled "Level 3 132'-4 1/2\"". It includes a "Roof Truss Bearing" at the top edge. The floor plan shows a central "CORRIDOR 300" flanked by two "BATH" rooms (2BR2, 2BR2) and two "WIC" rooms (2BR5, 2BR5). The end rooms are "BEDROOM 2BR3" and "BEDROOM 2B3".
- Level 2:** The middle floor, labeled "Level 2 117'-9\"". It includes a "Level 2 Truss Bearing" at the top edge. The floor plan shows a central "CORRIDOR 300" flanked by two "BATH" rooms (2BR2, 2BR2) and two "WIC" rooms (2BR5, 2BR5). The end rooms are "BEDROOM 2BR3" and "BEDROOM 2B3".
- Level 1:** The ground floor, labeled "Level 1 109'-0\"". It includes a "Level 1 Truss Bearing" at the top edge. The floor plan shows a central "CORRIDOR 300" flanked by two "BATH" rooms (2BR2, 2BR2) and two "WIC" rooms (2BR5, 2BR5). The end rooms are "BEDROOM 2BR3" and "BEDROOM 2B3".
- Level 0:** The ground level, labeled "Level 0 109'-0\"". It includes a "T.O. Footing" at the bottom edge.
- Structural Details:** The drawing shows the structural frame, including columns, beams, and floor slabs. The floor slabs are labeled "Level 3 Truss Bearing" and "Level 2 Truss Bearing".
- Fire Protection:** A callout points to the "CONCEALED SPACES BLOWN COMPLETELY FULL OF NON-COMBUSTIBLE INSULATION. NO COVERAGE REQD. TYP."

RISER LEGEND

1. 8" UNDERGROUND WATER SERVICE (BY OTHERS)
- (FLUSHING & TESTING OF THE UNDERGROUND SHALL BE COMPLETED PRIOR TO THE SPRINKLER SYSTEM INSTALLATION)
2. 8" x 4" GROOVED CONCENTRIC REDUCER
3. 4" GROOVED 90
4. 4" APOLLO DCLF 4A BACKFLOW
5. 2" SUPERVISED BUTTERFLY VALVE
6. 2" GROOVED COMMERCIAL RISER MANIFOLD w/ FLOW SWITCH PRESSURE GAUGE, PRV & TEST AND DRAIN
7. 2' UP TO RESIDENTIAL SYSTEM
8. 1-1/2" SUPERVISED BUTTERFLY VALVE
9. 1-1/2" GROOVED COMMERCIAL RISER MANIFOLD w/ FLOW SWITCH, PRESSURE GAUGE, PRV & TEST AND DRAIN
10. 1-1/2" UP TO STANDPIPE SYSTEM
11. 4" UP TO FDC
12. 4" GROOVED SUPERVISED BUTTERFLY VALVE
13. 4" GROOVED DPV-1 DRY VALVE
14. 6" x 4" GROOVED CONCENTRIC REDUCER
15. 6" UP TO ATTIC
16. 2" MAIN DRAIN PIPED OUTSIDE
17. AIR COMPRESSOR SIZED FOR 402 GALLON DRY SYSTEM
18. PIPE STAND
19. HEAD BOX

* ALL PIPING PENETRATING THE EXTERIOR WALL BY OTHERS TO BE GALVANIZED

* ALL WIRING/INTERFACING OF ALARMS BY OTHERS

STONE MEADOWS APARTMENTS BUILDING 'A'
FFE=1158.5'

STONE MEADOWS APARTMENTS BUILDING 'C'
FFE=1159.5'

STONE MEADOWS APARTMENTS BUILDING 'B'
FFE= 1159.4'

FIRE SPRINKLER RISER
SEE DETAIL 1 ON FP1

8" x 6" REDUCER

8" x 6" REDUCER

8" GATE VALVE

8" x 6" REDUCER

4" x 2 1/2" x 2 1/2" FDC & HORN STROBE

HYDRANT
EL=1159'

FLOW TEST INFO:
STATIC: 55 PSI
RESID: 23 PSI
FLOW: 3108 GPM
DATE: 2009

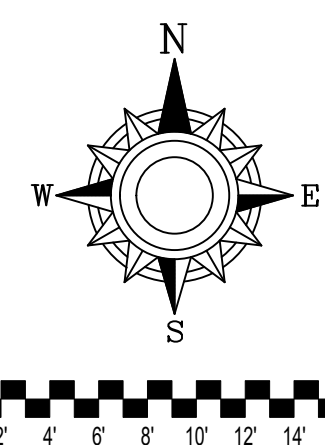
NOTE:
DIFFERENCE IN ELEVATION FROM SOURCE TO BUILDING, INCLUDED IN CALCULATIONS.

*** FLOW TEST INFORMATION**
PROVIDED BY CITY OF MARSHALL, MN IN 2009

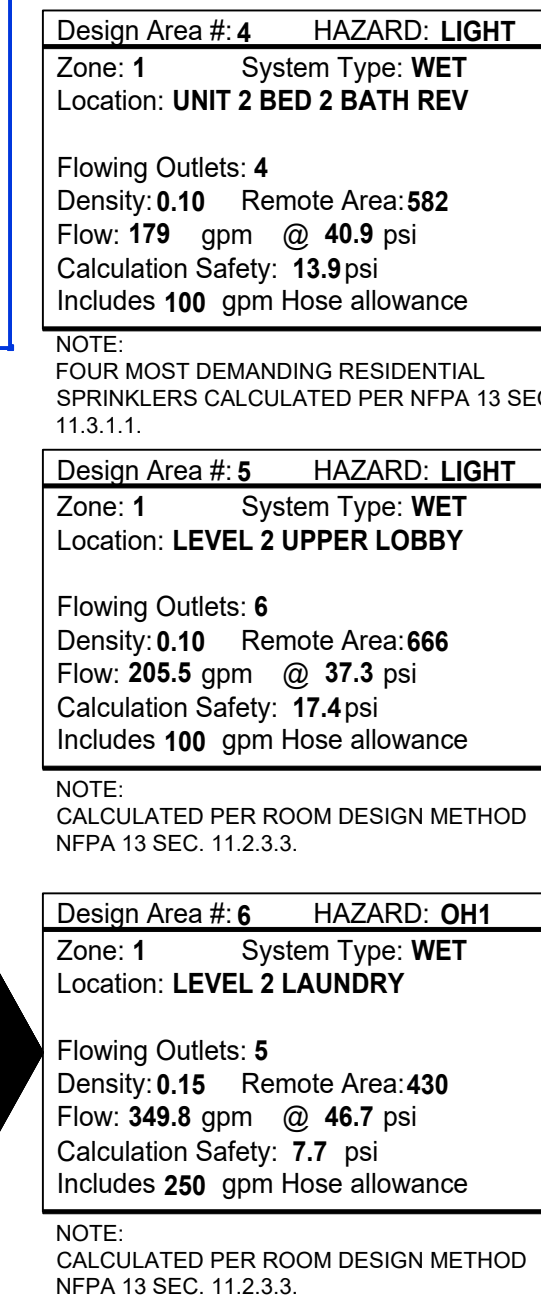
SUSAN DRIVE

CLARA AVE

MARSHALL AVE

[illegible]

Drawing Title:	FIRE PROTECTION PLAN	Contract No.	C24-150
STONE MEADOWS APARTMENT BUILDING C 1020 CLARICE AVE. MARSHALL, MN 56258		Drawing Date:	11/18/2025
		Scale:	1/8" = 1'-0"
		Drawn By:	BCJ
		Approval By:	STATE FIRE MARSHAL DIV.
		SHEET NO.	FP 1 of 3

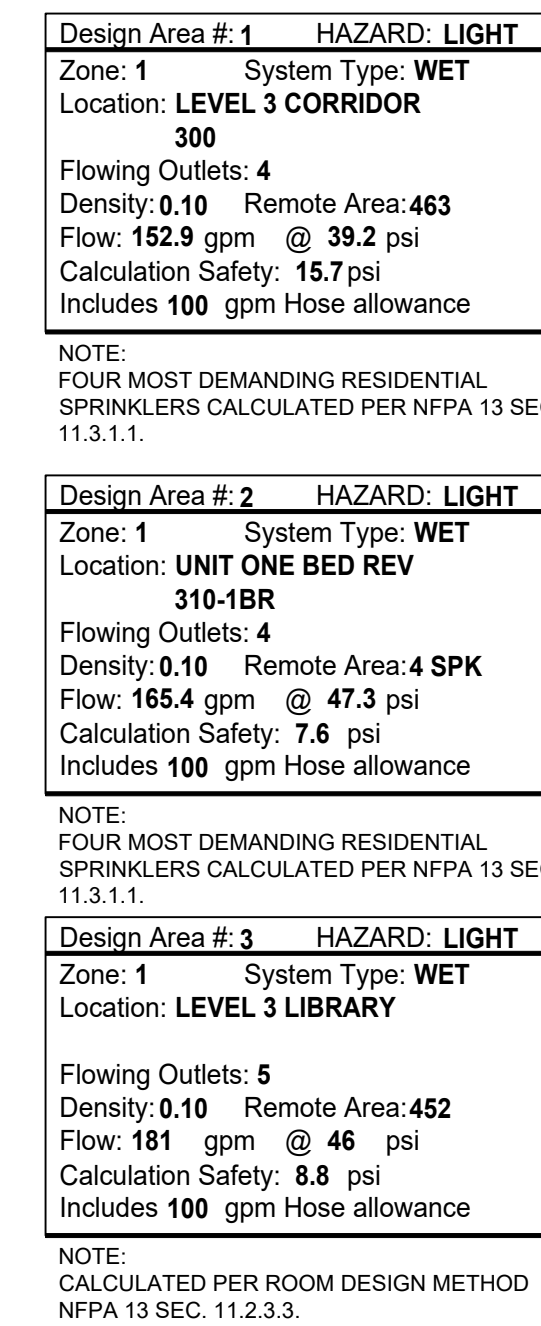


CALC PLACARD

PIPE LEGEND

	BLACK STEEL FIRE SPRINKLER PIPING
	CPVC FIRE SPRINKLER PIPING
	FIRE SPRINKLER STANDPIPE PIPING
	FIRE SPRINKLER FDC PIPING

BYM	CONT	POSITION	FINISH	TEMP	K	NPT	SIN	MFG.	MODEL	ESCUCHEN	MAX SPACING
227	PENDING		WHITE	155°	4.90	127°	V2740	VITALCAJAL	FL-RES	SEM-RECESS	16 x 18 U.N.O.
56	PENDING	BRASS	202°	5.80	127°	V2708	VITALCAJAL	FL-SPRG	SEM-RECESS	225 SF (LH) - 130 SF (OH)	
34	UPRIGHT	CHROME	212°	5.80	127°	V2710	VITALCAJAL	FL-GRWS	SEM-RECESS	420° 420° 420°	
130	SIDEWALL	BRASS	202°	5.60	127°	V2710	VITALCAJAL	FL-GRWS	SEM-RECESS	125 SF (LH) - 100 SF (OH)	
116	SIDEWALL	WHITE	155°	4.40	127°	V4431	VITALCAJAL	FL-RES	SEM-RECESS	16 x 16 U.N.O.	
148	SIDEWALL	WHITE	155°	4.00	127°	VK486	VIRKINS	VK486	SEM-RECESS	16 x 16 U.N.O.	
12	UPRIGHT	BRASS	212°	5.80	127°	RA0626	RELIABLE	A578	N/A	10 x 12	
78	UPRIGHT	BRASS	212°	5.80	127°	RA0626	RELIABLE	A578	N/A	8 x 10	
16	UPRIGHT	BRASS	202°	5.60	127°	V2704	VITALCAJAL	A272	N/A	2 x 45 SF (LH) - 130 SF (OH)	
144	UPRIGHT / SPRIG	BRASS	212°	5.60	127°	RA0626	RELIABLE	A578	N/A	125 SF (LH) - 100 SF (OH)	
27	UPRIGHT	BRASS	202°	8.00	3/4"	RA0622	RELIABLE	DD06A	N/A	6" x 6" OR 6" x 7"	



DRY SIDEWALL TO PROTECT EXTERIOR DECK. TYP. FP CONTRACTOR TO DETERMINE BARREL LENGTH IN ACCORDANCE WITH NFPA 13 AND MANUFACTURERS SPECIFICATIONS. FITTER AND GC TO ENSURE THAT EXTERIOR PENETRATIONS ARE PROPERLY SEALED TO PREVENT COLD AIR FROM ENTERING ANNULAR SPACE AROUND DRY SPRINKLER.

[illegible]

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		Scale: 1/8" = 1'-0"
		Drawn By: BCJ
		Approval By: STATE FIRE MARSHAL DIV.
		SHEET NO. FP 2 of 3



Design Area #: 8 **HAZARD:** LIGHT
Zone: 2 **System Type:** DRY
Location: ATTIC RIDGE

Flowing Outlets: 9
Density: 0.10 Remote Area: 2588
Flow: 420.1 gpm @ 48.7 psi
Calculation Safety: 5.4 psi
Includes 100 gpm Hose allowance

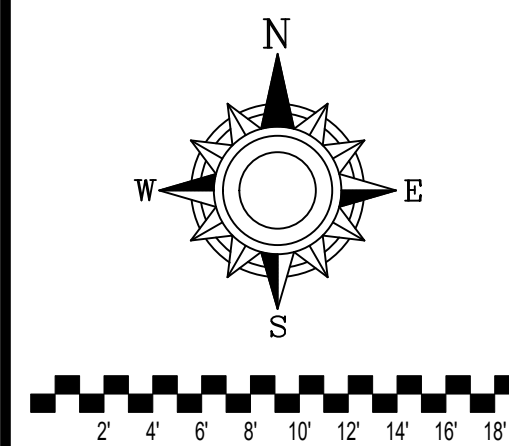
PIPE LEGEND

	BLACK STEEL FIRE SPRINKLER PIPING
	CPVC FIRE SPRINKLER PIPING
	FIRE SPRINKLER STANDPIPE PIPING
	FIRE SPRINKLER FDC PIPING

SPRINKLER HEAD LEGEND

SYM	CNT	POSITION	WHITE	TEMP	K	NIFT	INFO	MODEL#	ESCUCHEN	MAX SPACING	
◀	227	FRONT	FINEST	15%	4.00	1/2"	V2740	FL-RS	SEMI-RECESS	18" x 16" U.D.	
◀	28	FRONT	BRASS	200"	5.00	1/2"	V2740	FL-RS	SEMI-RECESS	23" (LH) - 130" (FH)	
◀	38	DRY SIDEWALK	CHROME	200"	5.00	1/2"	R5734	RELIABLE	F3095	404" NA	
◀	30	SIDEWALK	BRASS	200"	5.00	1/2"	V2710	FL-RS	SEMI-RECESS	18" (LH) - 100" (FH)	
◀	116	SIDEWALK	WHITE	15%	4.00	1/2"	V4481	FL-RS	SEMI-RECESS	16" x 16" U.D.	
◀	18	SIDEWALK	WHITE	15%	4.00	1/2"	VK486	VING	VK486	SEMI-RECESS 16" x 16" U.D.	
◀	2	UPRIGHT	BRASS	200"	5.00	1/2"	V2740	RELIABLE	N/A	18" x 16" U.D.	
◀	28	UPRIGHT	BRASS	200"	5.00	1/2"	R5024	RELIABLE	D0564	N/A	
◀	16	UPRIGHT	BRASS	200"	5.00	1/2"	V2704	RELIABLE	D0564	N/A	
◀	16	UPRIGHT	BRASS	200"	5.00	1/2"	R5024	RELIABLE	AH56	N/A	
◀	16	UPRIGHT	SPRIG	BRASS	212"	5.00	3/4"	RAS62	RELIABLE	D080-6	N/A
◀	16	UPRIGHT	BRASS	200"	5.00	3/4"	RAS62	RELIABLE	D080-6	N/A	

292 TOTAL SPRINGERS



GENERAL NOTES

1. SYSTEM INSTALLED PER NFPA-13 (2016 EDITION) AND STATE FIRE MARSHAL
2. ALL EQUIPMENT FOR THIS SYSTEM SHALL BE U.S. LISTED
3. MINIMUM PIPE SIZE SHALL BE 1" NOMINAL PIPE
4. ALL 3/4" TO 1" LIGHTWALL PIPE HAS WELDED OUTLETS & GROOVED SHOP DRADING FITTINGS
5. ALL WELDING PER NFPA-1304-4.2
6. NO NOTATION OR FABRICATION TO BEGIN WITHOUT APPROVED SHOP DRAWINGS
7. ALL PIPE LOCATIONS ARE TO BE FIELD MEASURED PRIOR TO FABRICATION AND INSTALLATION BY SPRINKLER CONTRACTOR
8. ALL DIMENSIONS SHOWN ARE CENTER TO CENTER
9. HIGH TEMPERATURE HEADS ARE TO BE FIELD LOCATED WHERE REQUIRED
10. PROVIDE ON SPAKE HEAD CABINET W/ HEADS & 1" HEAD WRENCH
11. HANGERS ARE TO BE U.S. LISTED AND APPROVED
12. ELECTRICAL WIRING, ALARM, DETECTION AND SUPERVISORY BY OWNER
13. OWNERS RESPONSIBILITY TO PROVIDE ADEQUATE HEATING TO PREVENT WET SYSTEM PIPING FROM FREEZING.

[illegible]

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