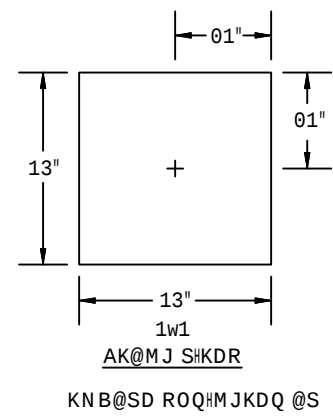




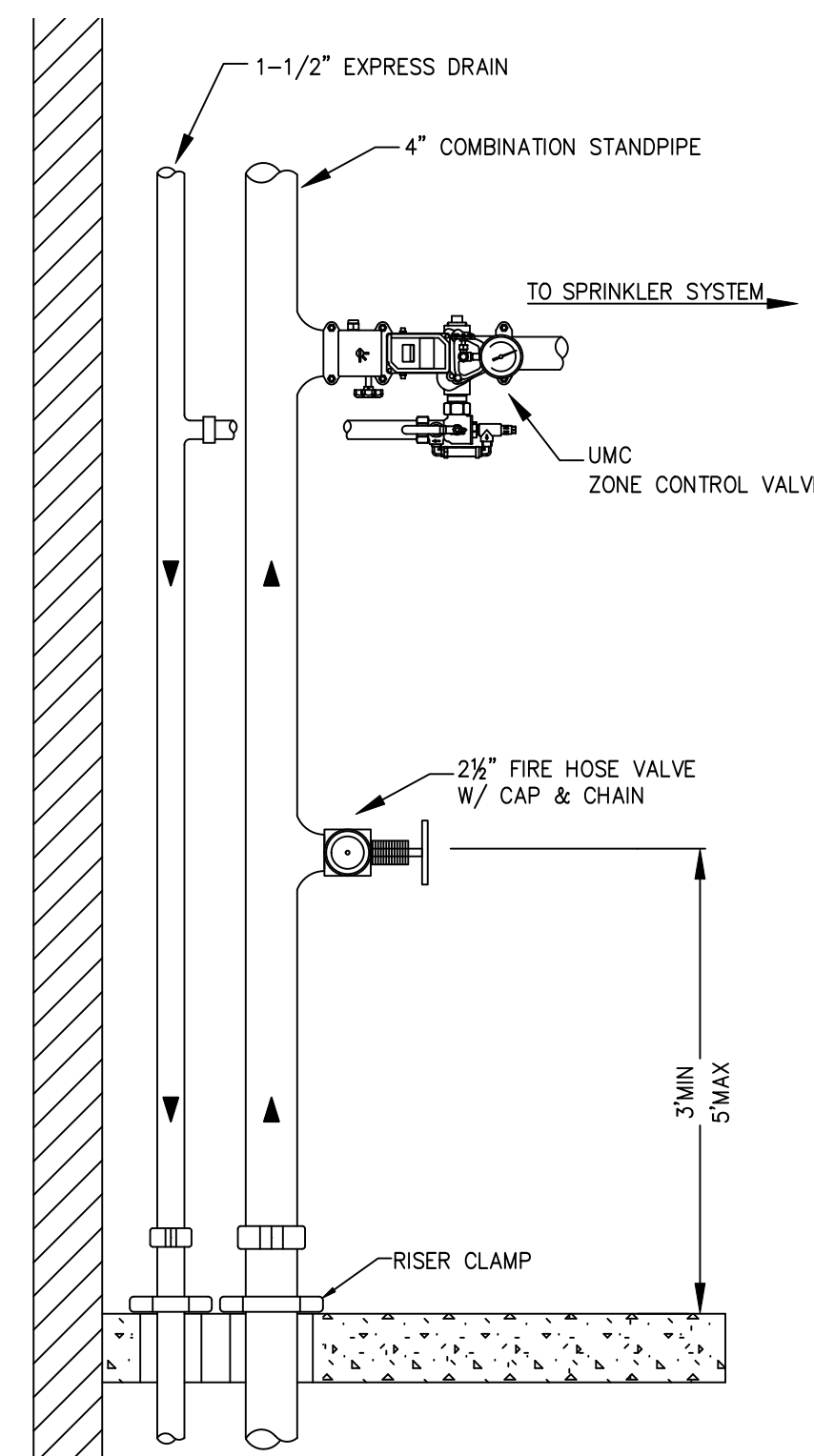
SECTION -A-
SCALE= 1/8" : 1'-0"

MAXIMUM DISTANCE BETWEEN HANGERS (FT.-IN.)	NOMINAL PIPE SIZE (IN.)							
	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
STEEL PIPE EXCEPT THREADED LIGHTWALL	NA	12-0	12-0	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
BLAZEMASTER CPVC	5-6	6-0	6-6	7-0	8-0	9-0	10-0	NA

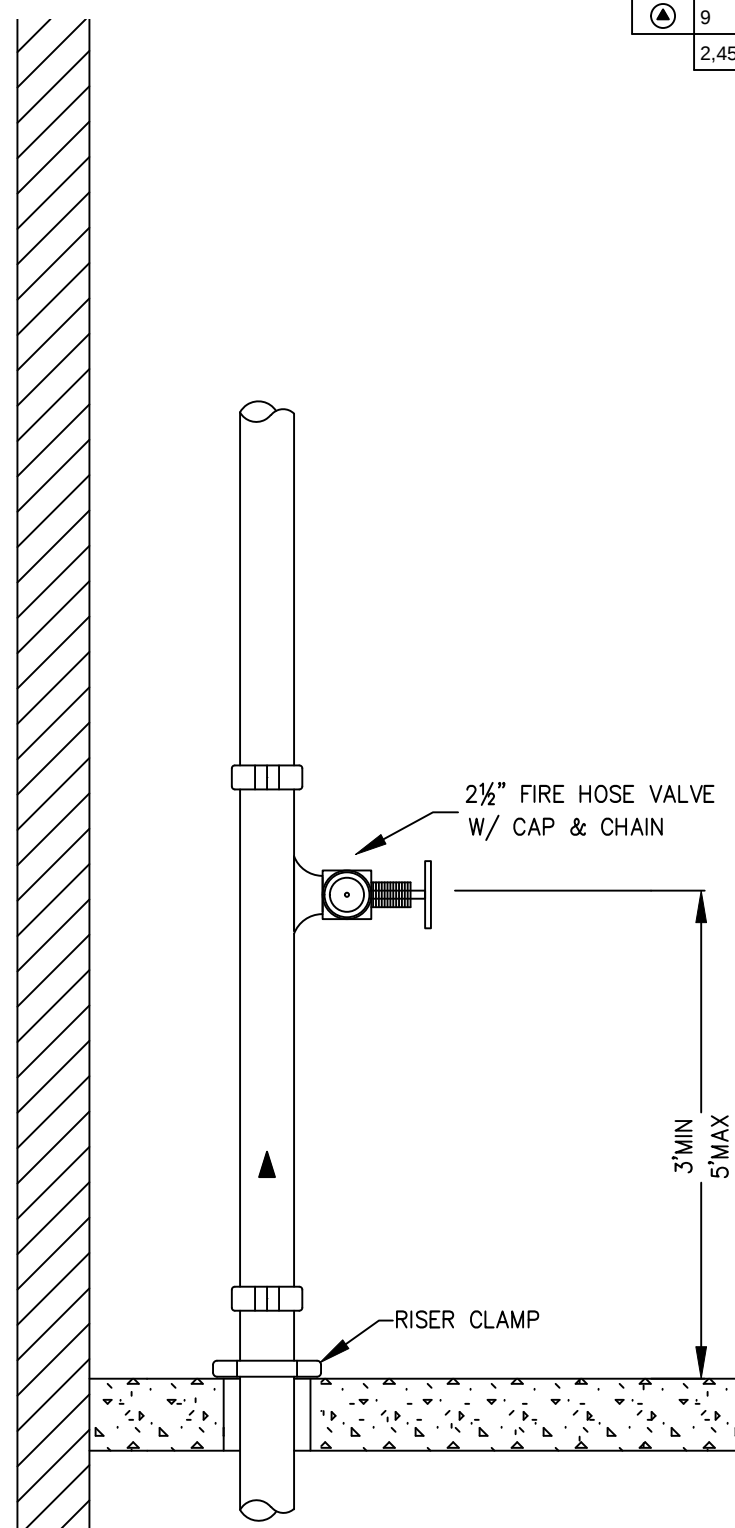


GENERAL NOTES

- MINNESOTA STATE BUILDING CODE (2020) - INTERNATIONAL BUILDING CODE (2018)
 - OCCUPANCY: GROUP A-2 (FUTURE TENANT), GROUP A-3 (FUTURE TENANT), BUSINESS GROUP B, MERCANTILE GROUP M (FUTURE TENANT), STORAGE GROUP S-2
 - TYPE OF CONSTRUCTION: I-A (FIRE RESISTIVE, NON-COMBUSTIBLE CONSTRUCTION)
 - SPRINKLERED AREAS (APPROXIMATE - SEE ARCHITECTURAL PLANS FOR ACTUAL)
UNDERGROUND PARKING = 30,254 S.F.
FIRST FLOOR = 30,254 S.F.
SECOND FLOOR = 30,254 S.F.
THIRD FLOOR = 30,254 S.F.
FOURTH FLOOR = 30,254 S.F.
FIFTH FLOOR = 30,451 S.F.
SIXTH FLOOR = 27,676 S.F.
ATTIC = 27,482 S.F.
TOTAL = 236,978 S.F.
 - INSTALLATION STANDARDS:
SPRINKLER SYSTEM DESIGNED AND INSTALLED PER NFPA-13, NFPA-14 (2016)
- SPRINKLER PIPE TYPES:
 - WET:
 - 1" BRANCH LINES TO BE BLAZEMASTER CPVC PIPING WITH CEMENTED FITTINGS
 - 1/2" THROUGH 2" MAIN & BRANCH LINES TO BE BLAZEMASTER CPVC PIPING WITH CEMENTED FITTINGS
 - 1" BRANCH LINES TO BE BLK SCHEDULE 40 PIPING WITH THREADED FITTINGS
 - 1/2" THROUGH 4" MAIN & BRANCH LINES TO BE BLK SCHEDULE 10 PIPING WITH SHORT RADIUS GROOVED FITTINGS
 - DRY:
 - 1" BRANCH LINES TO BE THREADED BLK SCHEDULE 40 WITH THREADED FITTINGS
 - 1/2" THROUGH 4" MAIN & BRANCH LINES TO BE GROOVED BLK SCHEDULE 10 WITH GROOVED SHORT RADIUS FITTINGS
 - MAINS & BRANCH LINES TO BE ROLL-GROOVED BLK SCHEDULE 10
- DESIGN CRITERIA
 - RESIDENTIAL ROOMS, CORRIDORS, LOBBYS, AND SIMILAR AREAS DESIGNED TO LIGHT HAZARD
 - PARKING GARAGE, MECH ROOMS, STORAGE ROOMS, AND SIMILAR AREAS DESIGNED TO ORDINARY HAZARD GROUP 1
 - TENANT SPACES DESIGNED TO ORDINARY HAZARD GROUP 2
 - REMOTE AREA REDUCTIONS HAVE BEEN TAKEN WHERE APPLICABLE PER NFPA 13 SEC. 11.2.3.2.3
- NOTES:
 - ALL MATERIAL TO BE NEW AND MEET U.L. STANDARDS
 - HANGERS TO BE INSTALLED IN ACCORDANCE WITH NFPA 13 (2016) - SEE PLAN FOR HANGING REQUIREMENTS
 - DRY SYSTEM PIPE SLOPE INSTALLATION:
SPRINKLER MAINS TO BE 1/2" PER 10 FEET
SPRINKLER BRANCH LINES TO BE 1/2" PER 10 FEET
 - DRY SYSTEM CAPACITY:
 - 354 GAL
- SYMBOLS USED ON DRAWINGS:
 - (E9) PIPE ELEVATION A.F.F
 - (E12) PIPE ELEVATION BELOW B.O.D
 - (H1) ROOM HAZARD CLASSIFICATION (ALL ROOMS ARE CONSIDERED LIGHT HAZARD UNLESS NOTED)
 - (H) HYDRAULIC CALCULATION JUNCTION POINT
 - 6'-0" CEILING HEIGHT
- SCOPE OF WORK:
 - NEW APARTMENT BUILDING INSTALLED BY PER THE 2018 IBC, 2020 MN STATE BUILDING CODE AND 2016 NFPA 13
 - BUILDING WILL BE PROVIDED WITH A STANDPIPE SYSTEM WITH HOSE VALVES AT THE MAIN FLOOR LANDINGS FOR STAIRS A&B AND HOSE VALVES AT STAIR C WILL BE PROVIDED AT THE INTERMEDIATE LANDINGS.
 - SPRINKLER SYSTEM WILL BE ZONED PER FLOOR AND WILL BE FED VIA COMBINED STANDPIPE IN STAIR B.
 - RESIDENTIAL FLOORS 5 AND 6 ARE COMBINED INTO ONE ZONE.
 - THE ATTIC SPACES WILL BE PROTECTED WITH A DRY SYSTEM. THE RISER WILL BE LOCATED AT THE SIXTH FLOOR JANITOR'S CLOSET.
 - ALL AREAS OF THE BUILDING TO BE INSTALLED AND COVERED IN ACCORDANCE WITH THE LOCAL AUTHORITY HAVING JURISDICTION AND PER NFPA 13 (2016)



TYPICAL STANDPIPE
w/ ZONE CONTROL
(STAIR B)

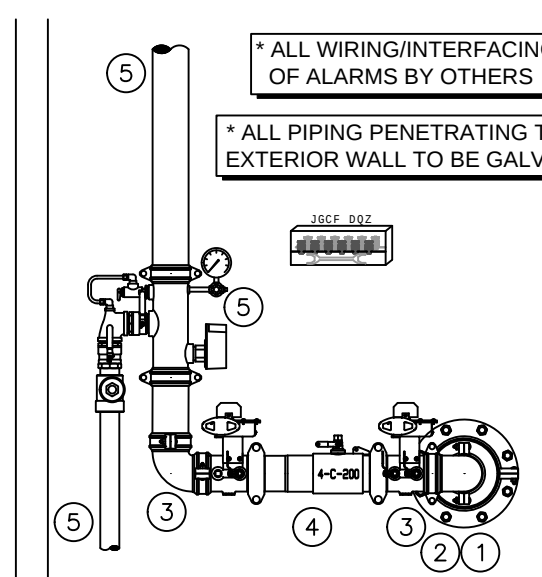


TYPICAL STANDPIPE
(STAIR A&C)

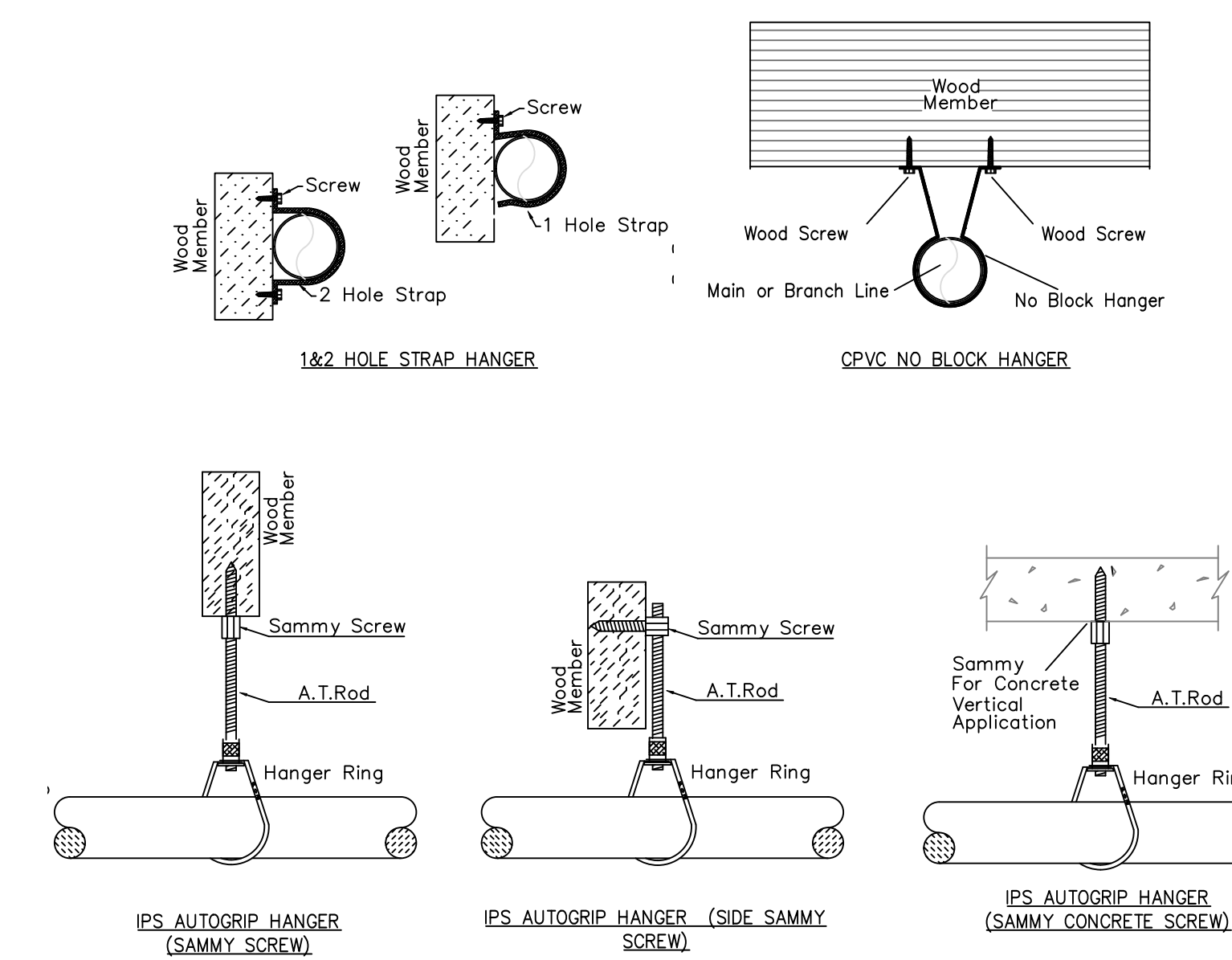
SYM	CNT	POSITION	FINISH	TEMP	K	NPT	SIN	MFG.	MODEL#	ESCUTCHION
99	1	UPRIGHT	BRASS	200	5.60	1/2"	TY313	Tyco	TY-FRB	N/A
1	1	UPRIGHT	BRASS	286	5.60	1/2"	TY313	Tyco	TY-FRB	N/A
119	1	UPRIGHT	BRASS	200	11.20	3/4"	TY313T	Tyco	EC-11	N/A
18	1	UPRIGHT	BRASS	286	11.20	3/4"	TY313T	Tyco	EC-11	N/A
81	1	SIDEWALL	WHITE	200	5.60	1/2"	TY333	Tyco	TY-FRB	SEMI-RECESS
69	1	SPRIG	BRASS	200	5.60	1/2"	TY313	Tyco	TY-FRB	N/A
3	1	SPRIG	BRASS	286	5.60	1/2"	TY313	Tyco	TY-FRB	N/A
2	1	SIDEWALL	BRASS	175	8.00	3/4"	VK530	Viking	VKEC	N/A
11	1	PENDENT	WHITE	155	5.60	1/2"	TY223	Tyco	TY-FRB	SEMI-RECESS
178	1	SPRIG	BRASS	200	5.60	1/2"	TY3199	Tyco	CC-3	N/A
972	1	PENDENT	WHITE	155	4.90	1/2"	TY2234	Tyco	LFII	SEMI-RECESS
320	1	PENDENT	WHITE	200	5.60	1/2"	TY323	Tyco	TY-FRB	SEMI-RECESS
15	1	SIDEWALL	WHITE	155	8.00	3/4"	VK530	Viking	VKEC	SEMI-RECESS
14	1	PENDENT	WHITE	155	8.00	3/4"	TY262	Tyco	EC-4C	SEMI-RECESS
26	1	PENDENT	WHITE	155	5.60	1/2"	TY323	Tyco	TY-FRB	SEMI-RECESS
15	1	SIDEWALL	WHITE	155	5.60	1/2"	TY333	Tyco	TY-FRB	SEMI-RECESS
227	1	SIDEWALL	WHITE	155	4.40	1/2"	TY2334	Tyco	LFII	SEMI-RECESS
9	1	PENDENT	WHITE	155	3.00	1/2"	TY2334	Tyco	LFII	SEMI-RECESS
2,453 TOTAL HEADS										

SPRINKLER HEAD LEGEND

PIPE LEGEND
BLACK STEEL FIRE SPRINKLER PIPING
CPVC FIRE SPRINKLER PIPING
DRY SYSTEM FIRE SPRINKLER PIPING
FIRE SPRINKLER STANDPIPE PIPING



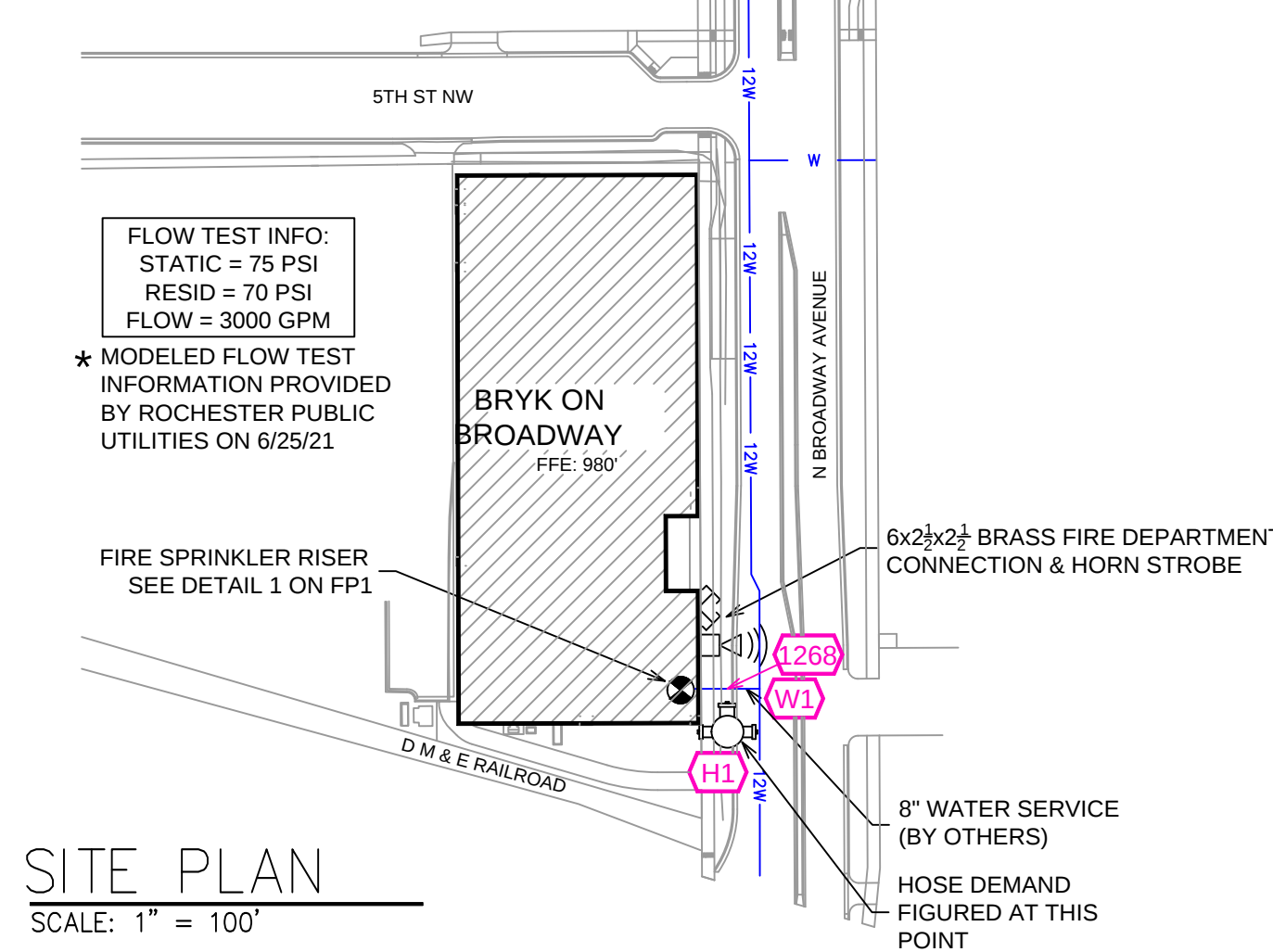
RISER DETAIL
SCALE: 1/2" = 1'-0"



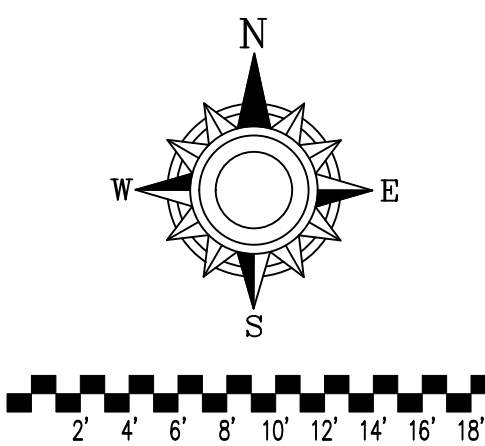
HANGER DETAILS

MANUAL WET
STANDPIPE
LOCATION: STAIR A
FLOW: 500 GPM
OUTLET PSI: 100
REQUIRED INLET PSI:
149.5

- #### RISER LEGEND
- IF UNDERGROUND WATER SERVICE (BY OTHERS) (FLUSHING & TESTING OF THE UNDERGROUND SHALL BE COMPLETED PRIOR TO THE SPRINKLER SYSTEM HOOKUP. UNDERGROUND PAPERS ARE TO BE SUPPLIED TO THE 'FP' CONTRACTOR BY THE G.C.)
 - 8" 4" GROOVED CONG. REDUCER
 - 4" GROOVED 90 ELBOW
 - 4" AMES COLT C200 BACKFLOW G/G B/F w/ TAMPERS
 - 4" GROOVED COMMERCIAL RISER MANIFOLD w/ FLOW SWITCH, PRESSURE GAUGE, & TEST AND DRAIN
 - 4" TO COMBINED STANDPIPE SYSTEM
 - 2" MAIN DRAIN PIPED OUTSIDE



SITE PLAN
SCALE: 1" = 100'



- #### General Notes
- System installed per NFPA-13 (2016 Edition) and State Fire Marshal.
 - All equipment for this system shall be U.L. listed.
 - Minimum pipe size shall be 1" nominal pipe.
 - All Sch. 40 & Eddy Flow piping has welded outlets & grooved fittings all welding per NFPA-13 (3-2.2).
 - No installation or fabrication to begin without approved shop drgs.
 - All Pipe Locations are to be Field Measured Prior to Fabrication and installation by Sprinkler Contractor.
 - All Dimensions Shown are Center to Center.
 - High Temperature Heads are to be Field Located Where Required.
 - Provide one spare head cabinet w/ 6 hds. & one hd wrench.
 - Hangers are to be U.L. Listed and F.M. Approved.
 - Electrical wiring, alarm, detection and supervisory by owner.
 - Owner's responsibility to provide adequate heating to prevent wet system piping from freezing.

APPROVAL STAMPS

Drawing Title:	FIRE PROTECTION PLAN	Contract No.	C21-129
Drawing Date:	03/07/2022	Scale:	1/8" = 1'-0"
Drawn By:	JGB	Approval By:	STATE FIRE MARSHAL DIV.
SHEET NO.	1 of 9		

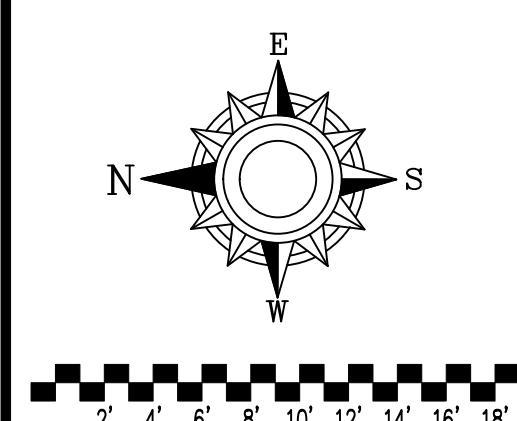
SPRINKLER HEAD LEGEND

Design Area #: 11	HAZARD: OH1
Zone: 1	System Type: WET
Location: UNDERGROUND PARKING A	
Flowing Outlets: 7	
Density: 0.15	Remote Area: 945
Flow 496.4 gpm @	56.5 psi
Calculation Safety: 18.8 psi	
Includes 250	gpm Hose allowance

NOTES:
PER NFPA 13 FIG 11.2.3.2.3.1. WITH A CEILING
HEIGHT OF 9'-8" A MINIMUM REMOTE AREA OF
900 S.F. USED



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



1. System installed per NFPA-13 (2016 Edition) and State Fire Marshal
2. All equipment for this system shall be U.L. listed
3. Minimum pipe size shall be 1" nominal pipe.
4. All Sch-10 & Eddy Flow piping shall be welded outlets & grooved fittings
all welding per NFPA 54
5. No installation or fabrication to begin without approved shop dwgs.
6. All Pipe Locations are to be Field Measured Prior to Fabrication
and installation by Sprinkler Contractor.
7. All Standoffs SHALL be GenSlab Center.
8. High Temperature Heads are to be Field Located Where Required.
9. Provide one spare head cabinet w/ 6 hds. & one hd wrench.
10. Hangers are to be U.L. Listed & A.M.F. Approved.
11. Electrical wiring, alarm, detection and supervisory by owner.
12. Owner's responsibility to provide adequate heating to prevent wet
freezing conditions.

APPROVAL STAMPS	

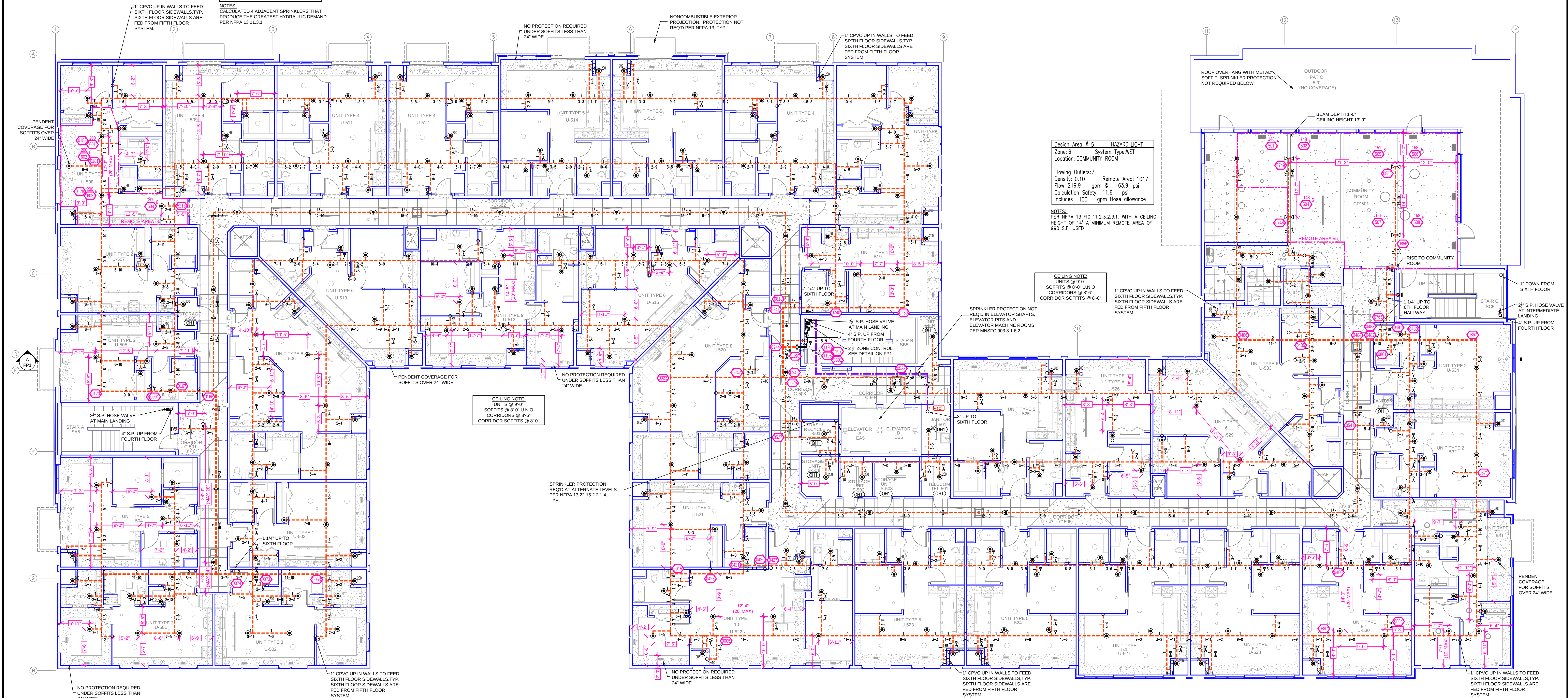
BRYK ON BROADWAY
ROCHESTER, MN
401 BROADWAY AVE NORTH

Contract No.	C21-129
Drawing Date:	03/07/2022
Scale:	1/8" = 1'-0"
Drawn By:	JGB
Approval By:	STATE FIRE MARSHAL DIV
SHEET NO.	2 of 9

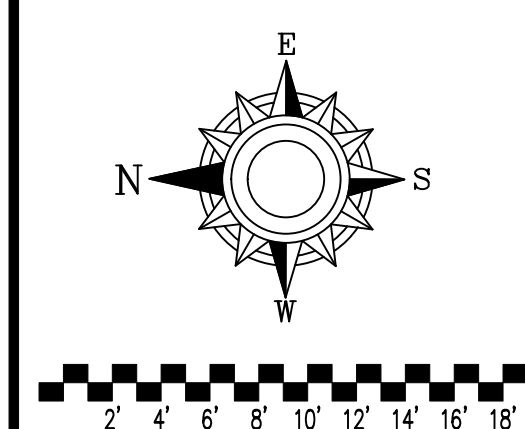
PIPE LEGEND

	BLACK STEEL FIRE SPRINKLER PIPING
	CPVC FIRE SPRINKLER PIPING
	DRY SYSTEM FIRE SPRINKLER PIPING
	FIRE SPRINKLER STANDPIPE PIPING

Design Area #:	6	HAZARD:	LIGHT
Zone:	6	System Type:	WET
Location:	UNIT U-508		
Flowing Outlets: 4			
Density:	0.10	Remote Area:	329
Flow	186.1	gpm @	68.7 psi
Calculation Safety:	6.8	psi	
Includes	100	gpm Hose allowance	



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



1. System installed per NFPA-314 (2016 Edition) and State Fire Marshal.
2. All equipment for this system shall be U.L. listed
3. Minimum pipe size shall be 1" nominal pipe.
4. All Sch 40 & Extra Flow piping has welded outlets & grooved fittings all welding per NFPA-313 (3-6.2).
5. No installation or fabrication to begin without approved shop dwgs.
6. All Pipe Locations are to be Field Measured Prior to Fabrication and Installation by Sprinkler Contractor.
7. All Dimensions Shown are Center to Center.
8. High Temperature Heads are to be Field Located Where Provided. Provide one spare head cabinet for 16 ft. & one 14 in. wrench.
10. Hangers are to be U.L. Listed and F.M. Approved.
11. Electrical wiring, alarm, detection and supervisory by owner.
12. Owner's responsibility to provide adequate heating to prevent wet system piping from freezing.

APPROVAL STAMPS

BRYK ON BROADWAY
ROCHESTER, MN
401 BROADWAY AVE NORTH

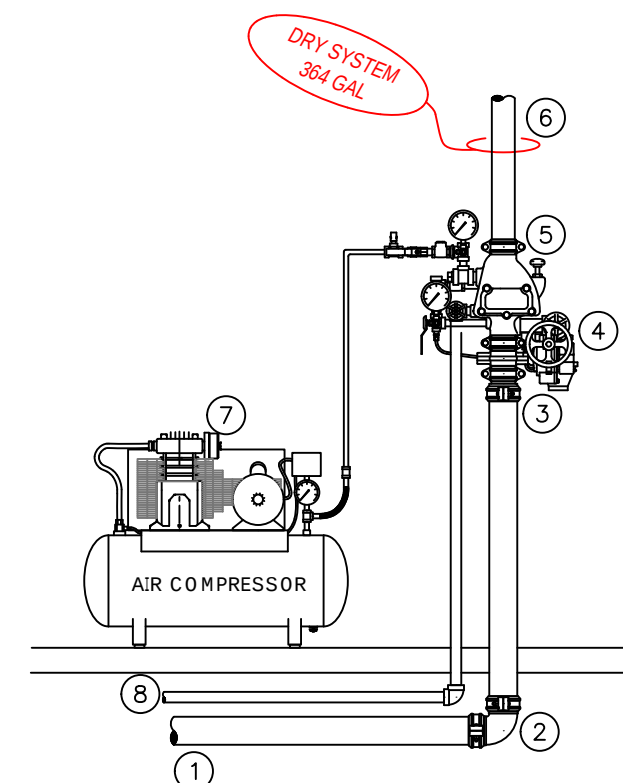
Contract No.	
C21-129	
Drawing Date:	03/07/2022
Scale:	1/8" : 1'-0"
Drawn By:	JLN
Approval By:	STATE FIRE MARSHAL DIV.
SHEET NO.	7 of 9

SYM	CONT	POSITION	FINISH	TEMP	K	NPT	SN	INFL	MODEL#	ESCLT/CHCN
1	UPRIGHT	BRASS	200	5.60	1/2"	TY313	Typo	TY-FRB	N/A	
2	UPRIGHT	BRASS	286	5.60	1/2"	TY313	Typo	TY-FRB	N/A	
3	UPRIGHT	BRASS	200	11.20	3/4"	TY313	Typo	EC-11	N/A	
4	UPRIGHT	BRASS	286	11.20	3/4"	TY313	Typo	EC-11	N/A	
5	UPRIGHT	BRASS	200	5.60	1/2"	TY313	Typo	TY-FRB	SEMI-RECESS	
6	UPRIGHT	BRASS	200	5.60	1/2"	TY313	Typo	TY-FRB	N/A	
7	UPRIGHT	BRASS	286	5.60	1/2"	TY313	Typo	TY-FRB	N/A	
8	UPRIGHT	BRASS	286	5.60	1/2"	TY313	Typo	TY-FRB	N/A	
9	PENDENT	WHITE	155	5.60	1/2"	TY323	Typo	TY-FRB	SEMI-RECESS	
10	PENDENT	WHITE	155	5.60	1/2"	TY323	Typo	TY-FRB	SEMI-RECESS	
11	PENDENT	WHITE	155	5.60	1/2"	TY323	Typo	TY-FRB	SEMI-RECESS	
12	PENDENT	WHITE	155	5.60	1/2"	TY323	Typo	TY-FRB	SEMI-RECESS	
13	PENDENT	WHITE	155	5.60	1/2"	TY323	Typo	TY-FRB	SEMI-RECESS	
14	PENDENT	WHITE	155	5.60	1/2"	TY323	Typo	TY-FRB	SEMI-RECESS	
15	PENDENT	WHITE	155	5.60	1/2"	TY323	Typo	TY-FRB	SEMI-RECESS	
16	PENDENT	WHITE	155	5.60	1/2"	TY323	Typo	TY-FRB	SEMI-RECESS	
17	PENDENT	WHITE	155	5.60	1/2"	TY323	Typo	TY-FRB	SEMI-RECESS	
18	PENDENT	WHITE	155	5.60	1/2"	TY323	Typo	TY-FRB	SEMI-RECESS	
19	PENDENT	WHITE	155	5.60	1/2"	TY323	Typo	TY-FRB	SEMI-RECESS	
20	PENDENT	WHITE	155	5.60	1/2"	TY323	Typo	TY-FRB	SEMI-RECESS	
21	PENDENT	WHITE	155	5.60	1/2"	TY323	Typo	TY-FRB	SEMI-RECESS	
22	PENDENT	WHITE	155	5.60	1/2"	TY323	Typo	TY-FRB	SEMI-RECESS	
23	PENDENT	WHITE	155	5.60	1/2"	TY323	Typo	TY-FRB	SEMI-RECESS	
24	PENDENT	WHITE	155	5.60	1/2"	TY323	Typo	TY-FRB	SEMI-RECESS	
25	PENDENT	WHITE	155	5.60	1/2"	TY323	Typo	TY-FRB	SEMI-RECESS	
26	PENDENT	WHITE	155	5.60	1/2"	TY323	Typo	TY-FRB	SEMI-RECESS	
27	PENDENT	WHITE	155	5.60	1/2"	TY323	Typo	TY-FRB	SEMI-RECESS	
28	PENDENT	WHITE	155	5.60	1/2"	TY323	Typo	TY-FRB	SEMI-RECESS	
29	PENDENT	WHITE	155	5.60	1/2"	TY323	Typo	TY-FRB	SEMI-RECESS	
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36	PENDENT	WHITE	155	5.60	1/2"	TY323	Typo	TY-FRB	SEMI-RECESS	
37	PENDENT	WHITE	155	5.60	1/2"	TY323	Typo	TY-FRB	SEMI-RECESS	
38	PENDENT	WHITE	155	5.60	1/2"	TY323	Typo	TY-FRB	SEMI-RECESS	
39	PENDENT	WHITE	155	5.60	1/2"	TY323	Typo	TY-FRB	SEMI-RECESS	
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53	PENDENT	WHITE	155	5.60	1/2"	TY323	Typo	TY-FRB	SEMI-RECESS	
54	PENDENT	WHITE	155	5.60	1/2"	TY323	Typo	TY-FRB	SEMI-RECESS	
55	PENDENT	WHITE	155	5.60	1/2"	TY323	Typo	TY-FRB	SEMI-RECESS	
56	PENDENT	WHITE	155	5.60	1/2"	TY323	Typo	TY-FRB	SEMI-RECESS	
57	PENDENT	WHITE	155	5.60	1/2"	TY323	Typo	TY-FRB	SEMI-RECESS	
58	PENDENT	WHITE	155	5.60	1/2"	TY323	Typo	TY-FRB	SEMI-RECESS	
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63	PENDENT	WHITE	155	5.60	1/2"	TY323	Typo	TY-FRB	SEMI-RECESS	
64	PENDENT	WHITE	155	5.60	1/2"	TY323	Typo	TY-FRB	SEMI-RECESS	
65	PENDENT	WHITE	155	5.60	1/2"	TY323	Typo	TY-FRB	SEMI-RECESS	
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79	PENDENT	WHITE	155	5.60	1/2"	TY323	Typo	TY-FRB	SEMI-RECESS	
80	PENDENT	WHITE	155	5.60	1/2"	TY323	Typo	TY-FRB	SEMI-RECESS	
81	PENDENT	WHITE	155	5.60	1/2"	TY323	Typo	TY-FRB	SEMI-RECESS	
82	PENDENT	WHITE	155	5.60	1/2"	TY323	Typo	TY-FRB	SEMI-RECESS	
83	PENDENT	WHITE	155	5.60	1/2"	TY323	Typo	TY-FRB	SEMI-RECESS	
84	PENDENT	WHITE	155	5.60	1/2"	TY323	Typo	TY-FRB	SEMI-RECESS	
85	PENDENT	WHITE	155	5.60	1/2"	TY323	Typo	TY-FRB	SEMI-RECESS	
86	PENDENT	WHITE	155	5.60	1/2"	TY323	Typo	TY-FRB	SEMI-RECESS	
87	PENDENT	WHITE	155	5.60	1/2"	TY323	Typo	TY-FRB	SEMI-RECESS	
88	PENDENT	WHITE	155	5.60	1/2"	TY323	Typo	TY-FRB	SEMI-RECESS	
89	PENDENT	WHITE	155	5.60	1/2"	TY323	Typo	TY-FRB	SEMI-RECESS	
90	PENDENT	WHITE	155	5.60	1/2"	TY323	Typo	TY-FRB	SEMI-RECESS	
91	PENDENT	WHITE	155	5.60	1/2"	TY323	Typo	TY-FRB	SEMI-RECESS	
92	PENDENT	WHITE	155	5.60	1/2"	TY323	Typo	TY-FRB	SEMI-RECESS	
93	PENDENT	WHITE	155	5.60	1/2"	TY323	Typo	TY-FRB	SEMI-RECESS	
94	PENDENT	WHITE	155	5.60	1/2"	TY323	Typo	TY-FRB	SEMI-RECESS	
95	PENDENT	WHITE	155	5.60	1/2"	TY323	Typo	TY-FRB	SEMI-RECESS	
96	PENDENT	WHITE	155	5.60	1/2"	TY323	Typo	TY-FRB	SEMI-RECESS	
97	PENDENT	WHITE	155	5.60	1/2"	TY323	Typo	TY-FRB	SEMI-RECESS	
98	PENDENT	WHITE	155	5.60	1/2"	TY323	Typo	TY-FRB	SEMI-RECESS	
99	PENDENT	WHITE	155	5.60	1/2"	TY323	Typo	TY-FRB	SEMI-RECESS	
100	PENDENT	WHITE	155	5.60	1/2"	TY323	Typo	TY-FRB	SEMI-RECESS	

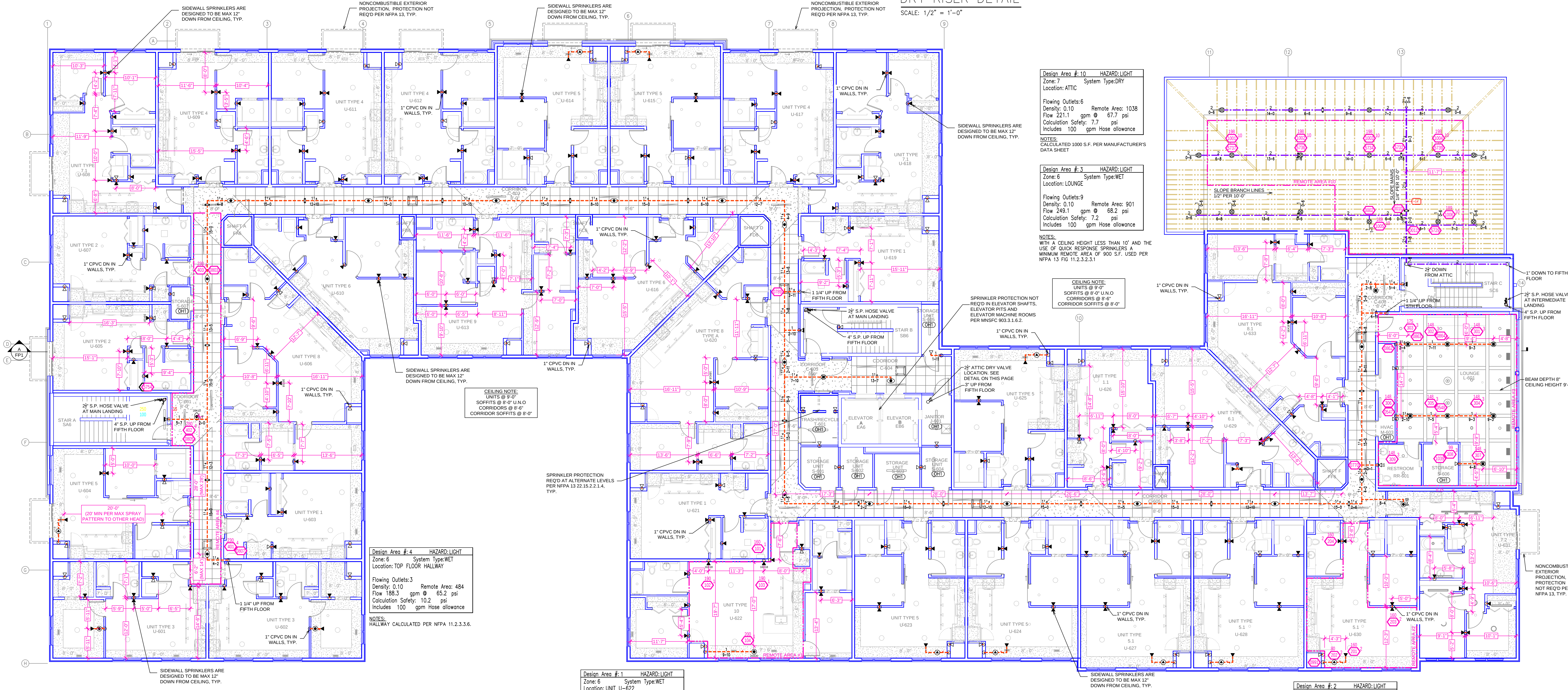
SPRINKLER HEAD LEGEND

PIPE LEGEND	
---	BLACK STEEL FIRE SPRINKLER PIPING
---	CPVC FIRE SPRINKLER PIPING
---	DRY SYSTEM FIRE SPRINKLER PIPING
---	FIRE SPRINKLER STANDPIPE PIPING

- RISER LEGEND**
- 3" FROM STANDPIPE
 - 3" GROOVED 90 ELBOW
 - 3" x 2" GROOVED CONCENTRIC REDUCER
 - 2" GROOVED BUTTERFLY VALVE
 - 2" GROOVED TYCO DPV1 DRY VALVE
 - 2" TO ATTIC DRY SYSTEM
 - AIR COMPRESSOR
 - THE DRAIN INTO MAIN DRAIN RISER

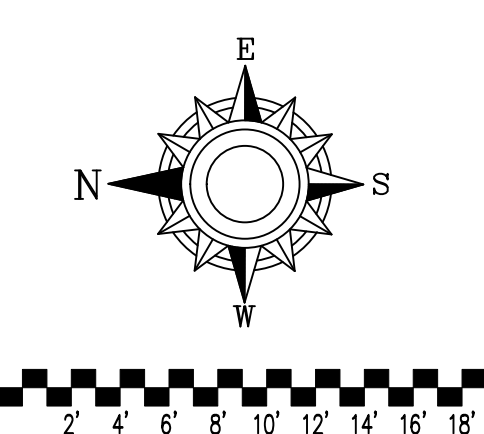


DRY RISER DETAIL
SCALE: 1/2" = 1'-0"



SIXTH FLOOR FIRE SPRINKLER PLAN

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



- General Notes**
- System installed per NFPA-13 (2010 Edition) and State Fire Marshal.
 - All equipment for this system shall be U.L. listed.
 - Minimum pipe size shall be 1" nominal pipe.
 - All Sch. 40 & Eddy flow piping has welded outlets & grooved fittings all welded per NFPA-13 (3.2.2).
 - No installation or fabrication to begin without approved shop draws.
 - All Pipe Locations are to be Field Measured Prior to Fabrication and installation by Sprinkler Contractor.
 - All Dimensions Shown are Center to Center.
 - High Temperature Heads are to be Field Located Where Required.
 - Provide one spare head cabinet w/ 6 hds. & one hd wrench.
 - Hangers are to be U.L. Listed and F.M. Approved.
 - Electrical wiring, alarm, detection and supervisory by owner.
 - Owner's responsibility to provide adequate heating to prevent wet system piping from freezing.

APPROVAL STAMPS

Drawing Title: FIRE PROTECTION PLAN

BRYK ON BROADWAY
ROCHESTER, MN
401 BROADWAY AVE NORTH

Contract No: **C21-129**
Drawing Date: 03/07/2022
Scale: 1/8" = 1'-0"
Drawn By: JLN
Approval By: STATE FIRE MARSHAL DIV.
SHEET NO: 8 of 9

SYM	CNT	POSITION	FINISH	TEMP	K	NPT	SN	MFG	MODEL#	ESCLUTCHION
○	199	UPRIGHT	BRASS	200	5.60	1/2"	TY313	Typo	TY-FRB	N/A
○	200	UPRIGHT	BRASS	286	5.60	1/2"	TY313	Typo	TY-FRB	N/A
○	219	UPRIGHT	BRASS	200	11.20	3/4"	TY3137	Typo	EC-11	N/A
○	218	UPRIGHT	BRASS	286	11.20	3/4"	TY3137	Typo	EC-11	N/A
○	11	SIDEWALL	WHITE	200	5.60	1/2"	TY3331	Typo	TY-FRB	SEMI-RECESS
○	89	SPRIG	BRASS	200	5.60	1/2"	TY313	Typo	TY-FRB	N/A
○	3	SPRIG	BRASS	286	5.60	1/2"	TY313	Typo	TY-FRB	N/A
○	2	SIDEWALL	BRASS	175	8.00	3/4"	VK630	Vking	VKEC	N/A
○	11	PENDENT	WHITE	155	5.60	1/2"	TY323	Typo	TY-FRB	SEMI-RECESS
○	178	SPRIG	BRASS	200	5.60	1/2"	TY3389	Typo	CC-3	N/A
○	172	PENDENT	WHITE	135	4.90	1/2"	TY2234	Typo	LFH	SEMI-RECESS
○	120	PENDENT	WHITE	200	5.60	1/2"	TY323	Typo	TY-FRB	SEMI-RECESS
○	15	SIDEWALL	WHITE	155	8.00	3/4"	VK630	Vking	VKEC	SEMI-RECESS
○	14	PENDENT	WHITE	155	8.00	3/4"	TY4282	Typo	EC-8C	SEMI-RECESS
○	26	PENDENT	WHITE	155	5.60	1/2"	TY323	Typo	TY-FRB	SEMI-RECESS
○	115	SIDEWALL	WHITE	155	5.60	1/2"	TY3331	Typo	TY-FRB	SEMI-RECESS
○	127	SIDEWALL	WHITE	155	4.40	1/2"	TY2334	Typo	LFH	SEMI-RECESS
○	9	PENDENT	WHITE	155	3.00	1/2"	TY1234	Typo	LFH	SEMI-RECESS
2,453 TOTAL HEADS										

PIPE LEGEND	
—	BLACK STEEL FIRE SPRINKLER PIPING
---	CPVC FIRE SPRINKLER PIPING
---	DRY SYSTEM FIRE SPRINKLER PIPING
---	FIRE SPRINKLER STANDPIPE PIPING

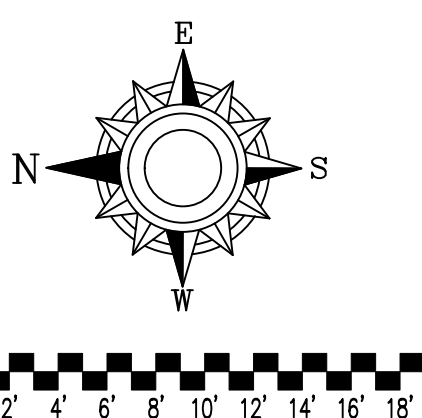
SPRINKLER HEAD LEGEND



ATTIC FIRE SPRINKLER PLAN

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

Design Area #9 HAZARD: LIGHT
Zone: 7 System Type: DRY
Location: ATTIC
Flowing Outlets: 8
Density: 0.10 Remote Area: 1020
Flow 233 gpm @ 55.5 psi
Calculation Safety: 19.9 psi
Includes 100 gpm hose allowance
NOTES:
CALCULATED 1000 S.F. PER MANUFACTURER'S DATA SHEET



- General Notes
- System installed per NFPA-13 (2016 Edition) and State Fire Marshal.
 - All equipment for this system shall be U.L. listed.
 - Minimum pipe size shall be 1" nominal pipe.
 - All Sch. 40 & Eddy Flow piping has welded outlets & grooved fittings all welding per NFPA-13 (3.6.2).
 - No installation or fabrication to begin without approved shop docs.
 - All Pipe Locations are to be Field Measured Prior to Fabrication and Installation by Sprinkler Contractor.
 - All Dimensions Shown are Center to Center.
 - High Temperature Heads are to be Field Located Where Required.
 - Provide one spare head cabinet w/ 6 hds. & one hd wrench.
 - Hangers are to be U.L. Listed and F.M. Approved.
 - Electrical wiring, alarm, detection and supervisory by owner.
 - Owner's responsibility to provide adequate heating to prevent wet system piping from freezing.

APPROVAL STAMPS

Drawing Title: FIRE PROTECTION PLAN

BRYK ON BROADWAY
ROCHESTER, MN
401 BROADWAY AVE NORTH

Contract No.: C21-129
Drawing Date: 03/07/22
Scale: 1/8" = 1'-0"
Drawn By: JGB
Approval By: STATE FIRE MARSHAL DIV.
SHEET NO. 9 of 9