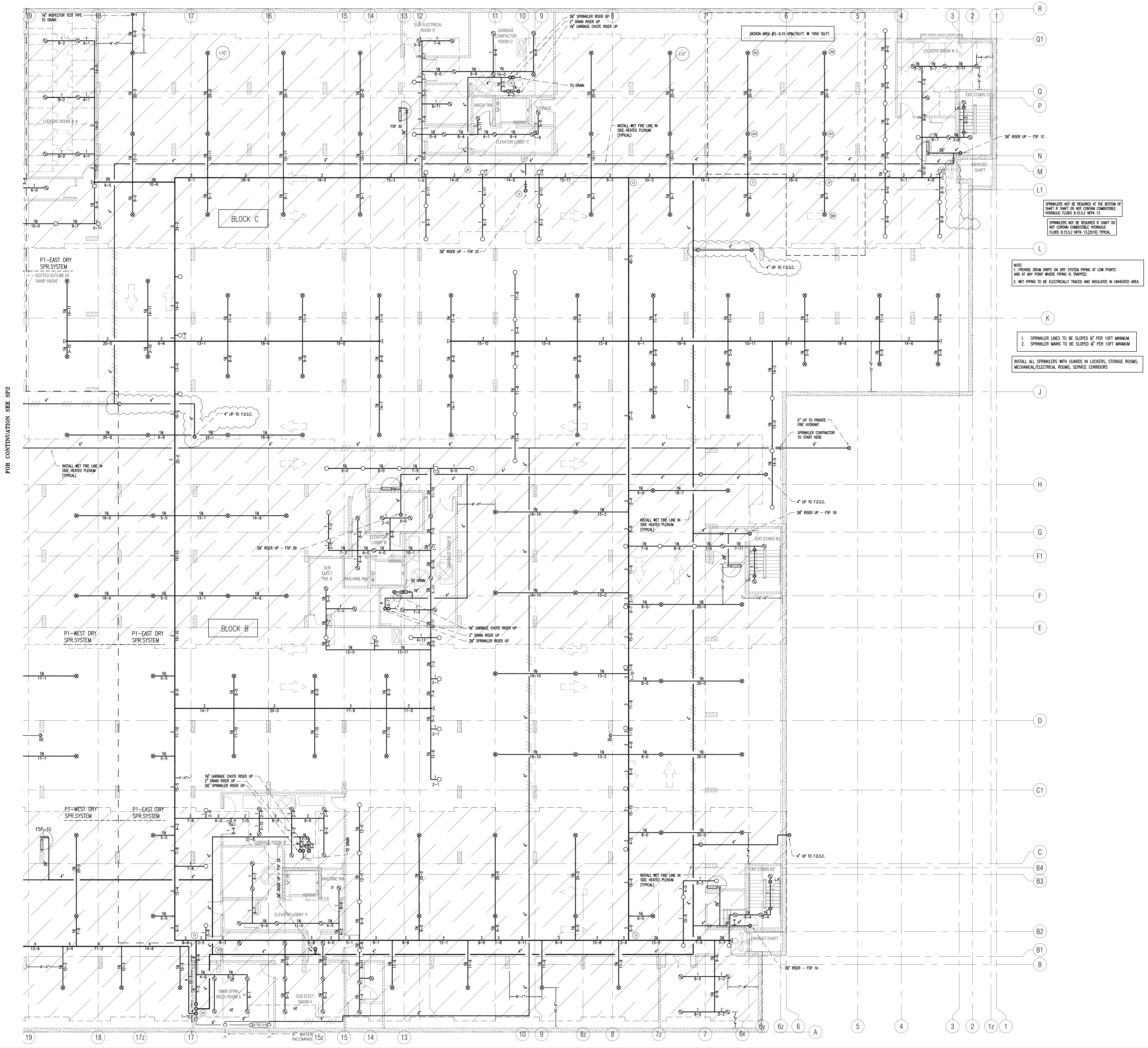




FOR CONTINUATION SEE SHEET

- SPRINKLERS NOT BE REQUIRED AT THE BOTTOM OF SHUTTLE IF SHUTTLE DO NOT CONTAIN COMBUSTIBLE MATERIALS 8.15.5.2 WITH 13
- SPRINKLERS NOT BE REQUIRED IF SHUTTLE DO NOT CONTAIN COMBUSTIBLE MATERIALS 8.15.5.2 WITH 13(2016) TYPICAL
- NOTE:
1. PROVIDE DRAIN DIPS ON DRY SYSTEM PIPING AT LOW POINTS AND AT ANY POINT WHERE PIPING IS TRAPPED.
2. WET PIPING TO BE ELECTRICALLY TRACED AND INSULATED IN UNHEATED AREA.
1. SPRINKLER LINES TO BE SLOPED 1/8" PER 10FT MINIMUM
2. SPRINKLER MAINS TO BE SLOPED 1/8" PER 10FT MINIMUM
- INSTALL ALL SPRINKLERS WITH GARGOLS IN LOCKERS, STORAGE ROOMS, MECHANICAL/ELECTRICAL ROOMS, SERVICE CORRIDORS

DESIGN AREA #2:
SPRINKLER SYSTEM DESIGNED FOR
0.15 GPM PER SQ. FT. OVER
150 SQ. FT. (100 L. SEC. RT)
PLUS 200 GPM FOR HOSES
AS PER NFPA 13

FITTING MATERIAL: MANS - CUL LISTED GROOVED FITTINGS
HANDS MATERIAL: MANS - AS PER NFPA 13 REQUIREMENTS
DESIGN SPRINKLER SYSTEM - NFPA 13 (2016)

General Notes
1. All Pipe Locations are to be Field Measured Prior to Fabrication and Installation by Sprinkler Contractor.
2. All Dimensions Shown are Center to Center.
3. High Temperature Heads are to be Field Located Where Required.
4. All Heads, Pipes and Hangers are to be Installed per NFPA #13.
5. Hangers are to be U.L.C. Listed and F.M. Approved.
6. SPRINKLERS C/W HEAD GUARDS TO BE INSTALLED UNDER ALL OBSTRUCTIONS OVER 4" HIGH.
7. OWNER (OR OTHERS) TO PROVIDE ADEQUATE HEAT IN ALL AREAS OF BUILDING SUBJECT TO FREEZING THAT ARE PROTECTED BY A WET TYPE SPRINKLER SYSTEM.

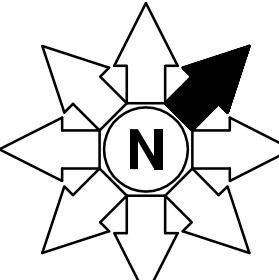
Symbol	Description	Total
1/2"	1/2" 155T SR 55-14 BRGS UPRIGHT K=1.0	180
1/2"	1/2" 155T SR BRGS UPRIGHT K=1.0	148
1/2"	1/2" 155T SR BRGS UPRIGHT K=1.2	5
1/2"	1/2" 155T SR BRGS UPRIGHT K=1.2	151
1/2"	1/2" 155T SR BRGS UPRIGHT K=1.2	1
1/2"	1/2" 155T SR BRGS UPRIGHT K=1.2	1
1/2"	1/2" 155T SR BRGS UPRIGHT K=1.2	1
1/2"	1/2" 155T SR BRGS UPRIGHT K=1.2	1
1/2"	1/2" 155T SR BRGS UPRIGHT K=1.2	1
1/2"	1/2" 155T SR BRGS UPRIGHT K=1.2	1

(C)	Hydraulic Reference Points	Symbol	Description	To
[14 mm]	Elev. Below Top of Steel	◐	3/4" 155T SR C2-14 BRASS UPRIGHT K=14.0	1
	Elev. Above Finished Floor	◑	1/2" 155T SR BRASS UPRIGHT K=5.6	1
+ (OS 24-1)	Elev. of Top of Steel	◐	3/4" 155T SR SIK-20 SIDEWALK K=11.2	5
◑	Ceiling Height	◑	1/2" 155T SR BRASS UPRIGHT K=5.6	1
—	Denotes Hanger Location	◑	1" 155T SR GS-3 DRY SIDEWALK K=11.2	1
o	Rise up or down			
1/11	INTERMEDIATE/HIGH TEMPERATURE			

Contractor:	Elite Sprinkler Inc.
	12 McMillan Court, Markham, Ontario, L3R 9Y1 Tel: 905-477-1119 www.elitesprinkler.ca
Contractor:	STAROFIRE systems
	801 Highway 7, Unit 10, Richmond Hill, ON L4B 4G2 Tel: 905-709-6400 • Fax: 905-709-6401

ROYAL PINE
ATTMAR + PALLESCI DRIVE
BRAMPTON, ON
P1 LEVEL EAST



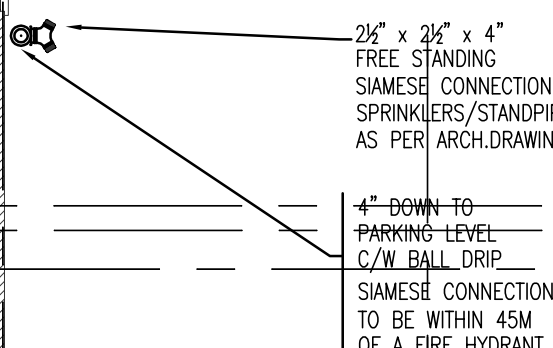


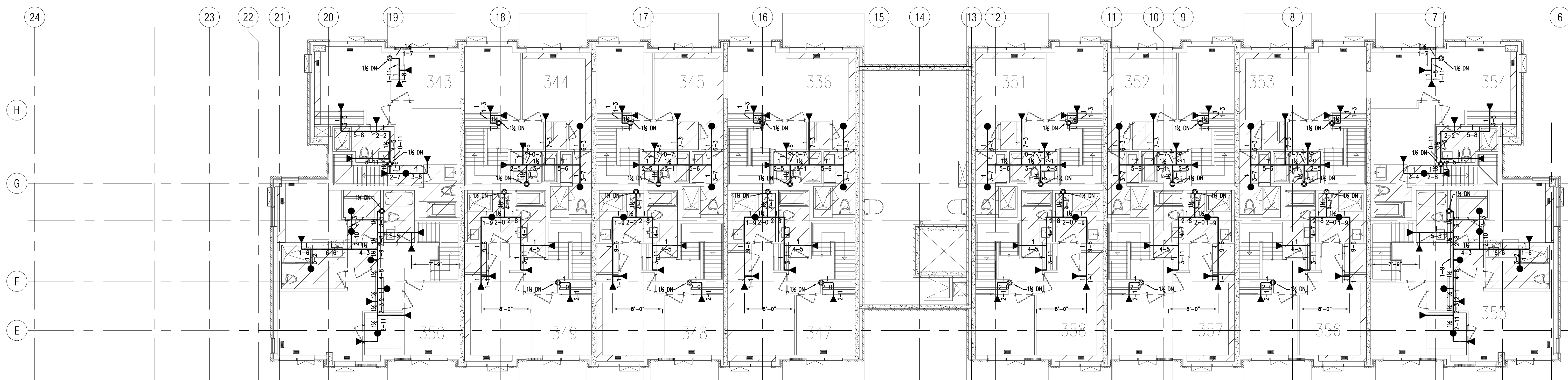
DESIGN AREA #1 & #2:
SPRINKLER SYSTEM DESIGNED FOR
GROUP 1
0.15 GPM PER SQ.FT. OVER
1850 SQ.FT. (1000 + 850 DRY)
PLUS 250 GPM FOR HOSES
AS PER NFPA 13.

MATERIAL NOTES	
PIPING MATERIAL: MANS - SCHEDULE 7 OR 10 BLACK STEEL PIPE AND INSTALLATION BY SPRINKLER CONTRACTOR.	
FITTING MATERIAL: MANS - CUL LISTED GROOVED FITTINGS	
HANGER MATERIAL: MANS - AS PER NFPA 13 REQUIREMENTS	
DESIGN: SPRINKLER SYSTEM - NFPA 13 (2016)	

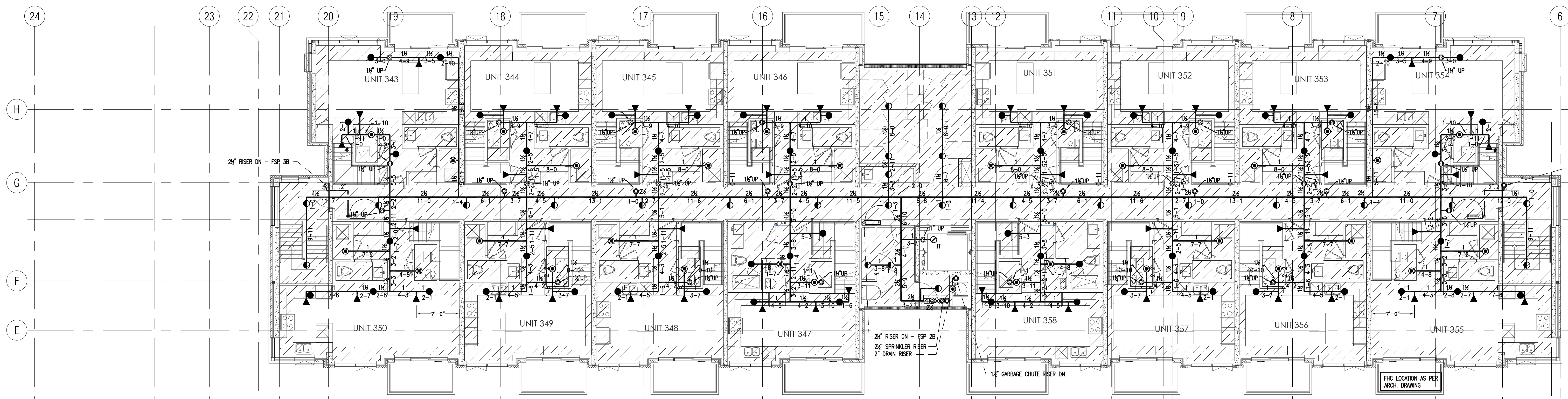
General Notes	
1. All Pipe Locations are to be Field Measured Prior to Fabrication and Installation by Sprinkler Contractor.	
2. All Dimensions Shown are Center to Center.	
3. High Temperature Heads are to be Field Located Where Required.	
4. All Heads, Pipes and Hangers are to be Installed per NFPA #13.	
5. Hangers are to be U.L.C. Listed and F.M. Approved.	
6. SPRINKLERS C/W HEAD GUARDS TO BE INSTALLED UNDER ALL OBSTRUCTIONS OVER 4" HIC.	
7. OWNER (OR OTHERS) TO PROVIDE ADEQUATE HEAT IN ALL AREAS OF BUILDING SUBJECT TO FREEZING THAT ARE PROTECTED BY A WET TYPE SPRINKLER SYSTEM.	

Symbols	
Symbol	Description
Hydraulic Reference Points	SEE SPN
1/2" (1/2")	1/2" (1/2")
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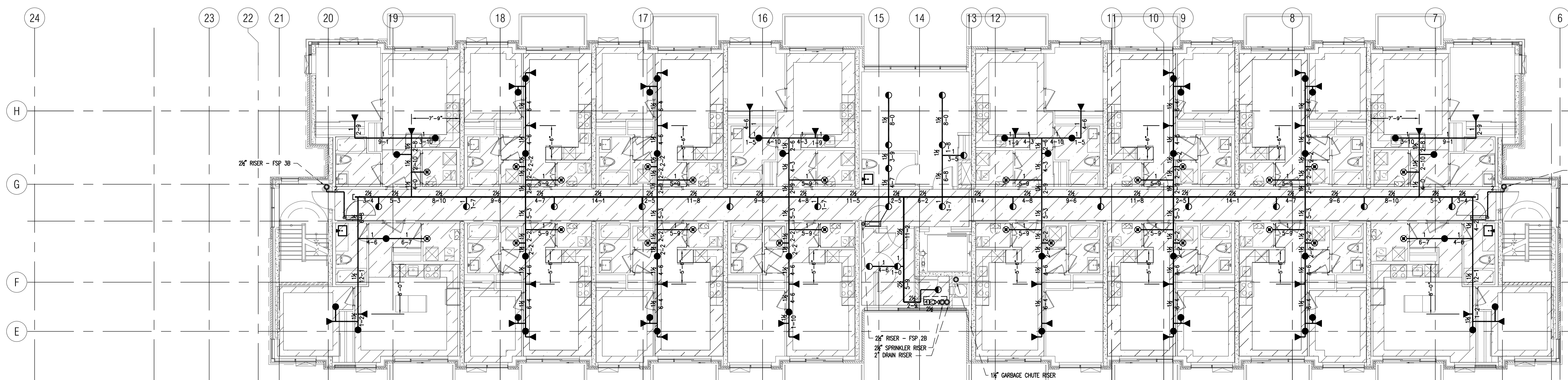




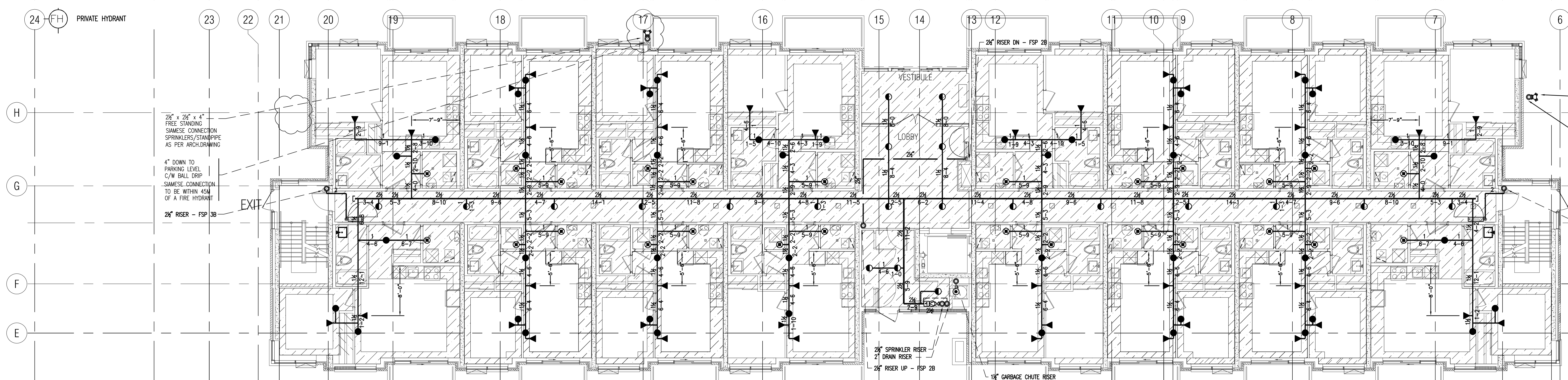
4TH FLOOR



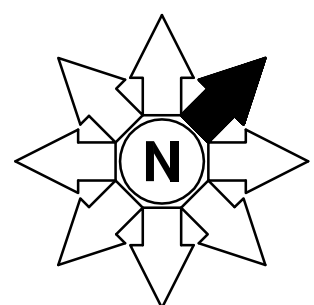
3RD FLOOR



2ND FLOOR



1ST FLOOR



MATERIAL NOTES	
FITTING MATERIAL: WELD - ALL LISTED GROOVED FITTINGS	
HANGER MATERIAL: WELD - AS PER NFPA 13 REQUIREMENTS	
DESIGN: SPRINKLER SYSTEM - NFPA 13K (2016)	

General Notes	
1. All Pipe Locations are to be Field Measured Prior to Fabrication and Installation by Sprinkler Contractor.	
2. All Dimensions Shown are Center to Center.	
3. High Temperature Heads are to be Field Located Where Required.	
4. All Heads, Pipes and Hangers are to be Installed per NFPA #13.	
5. Hangers are to be U.L.C. Listed and F.M. Approved.	
6. SPRINKLERS C/W HEAD QUANTITIES TO BE INSTALLED UNDER ALL DISTRIBUTIONS OVER 40' HIG.	
7. OWNER (OR OTHERS) TO PROVIDE ADEQUATE HEAT IN ALL AREAS OF BUILDING SUBJECT TO FREEZING THAT ARE PROTECTED BY A WET TYPE SPRINKLER SYSTEM.	

Symbols		Description	
Symbol	Description	Symbol	Description
	Hydraulic Reference Point		1/2" TEST OR WINDING WIRE RESID. WHITE COATED SIZEMALL K=5.6
	Elev. Below Top of Steel		1/2" TEST OR WINDING WIRE RESID. WHITE COATED PENDING K=4.9
	Elev. Above Finished Floor		1/2" TEST OR WINDING WIRE RESID. WHITE COATED PENDING K=4.9
	Elev. Top of Steel		1/2" TEST OR WINDING WIRE RESID. WHITE COATED PENDING K=4.9
	Cooling Heating		1/2" TEST OR WINDING WIRE RESID. WHITE COATED PENDING K=4.9
	Desolder Hanger Location		1/2" TEST OR BRASS UPST K=5.6
	Rise up or down		
	INTERMEDIATE/HIGH TEMPERATURE		
	WIRE CLAMPED		
			FIRE HOSE CABINET - 100 FT OF 1" UNED HOSE C/W COMBINATION FOZ NOZZLE

Contract No.	2019-251	Revisions:	Date:
Drawn By:	E.N.	Issued for Tender	Aug 01/19
Scale:	1/8"=1'-0"	Issued for Permit & Tender	Sep 18/19
		Re-issued for Permit & Tender	Sep 21/20
		Issued for Permit:	Mar 03/21
		2. Revised on per SI A01	Jun 07/21
		3. Revised on per SI A03	Jul 17/21
Date:	July, 2019		
Approval By:	A. NOVOSSELOV P. Eng.		

Elite Sprinkler Inc.
 12 McLeod Crescent, Brampton, Ontario, L6Y 6K7
 Tel: 905.874.1234
 www.elitesprinkler.ca

STAROFIRE systems
 801 Highway 10 West, Unit 8 & 9, 10, Vaughan, ON L4K 6Z2
 Tel: 905.239.6400 • Fax: 905.239.6810

Job: **ROYAL PINE**
ATTMAR + PALLESCHI DRIVE
BRAMPTON, ON

Building: **BUILDING B**

