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01	01-09-20	ISSUED FOR APPROVAL
NO.	DATE:	DESCRIPTION:

MECHANICAL CONTRACTOR:
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DRAWING TITLE :
CELLAR FLOOR
SPRINKLER PIPING
LAYOUT

PROJECT INFORMATION:
525 St Marks Ave

CELLAR SPRINKLER HEAD COUNT

5 CONCEALED PENDANT
7 UPRIGHT SPRINKLER HEADS
4 EXTENDED COVERAGE SIDEWALL
1 SPRINKLER HEAD IN TRASH CHUTE
1 SPRINKLER HEADS IN COMPACTOR ROOM
18 SPRINKLER HEADS TOTAL

SPRINKLER HEAD SCHEDULE

SYMBOL	TYPE
●	CONCEALED PENDANT
○	UPRIGHT
▶	EXTENDED COVERAGE SIDEWALL
○	DRY UPRIGHT
⊕	FOR COMPACTOR

PIPE SIZING SCHEDULE (ORDINARY HAZARD)

No. OF SPRINKLERS	PIPE SIZE
UPTO 2 SPRINKLERS	ø25 (ø1")
UPTO 3 - do -	ø32 (ø1-1/4")
UPTO 5 - do -	ø40 (ø1-1/2")
6 - 10 SPRINKLERS	ø50 (ø2")
11 - 20 - do -	ø65 (ø2-1/2")
21 - 40 - do -	ø80 (ø3")
41 - 65 - do -	ø90 (ø3-1/2")
66 - 100 - do -	ø100 (ø4")
101 - 160 - do -	ø125 (ø5")
161 - 275 - do -	ø150 (ø6")

PIPE SUPPORT SCHEDULE				ROD&ANCHOR SCHEDULE	
ITEM	PIPE SIZE	MAXIMUM SPACING BETWEEN SUPPORTS	MAXIMUM DISTANCE OF SUPPORT TO A SPRINKLER	THREADED ROD SIZE	EXPANSION ANCHOR SIZE
1	25ø	3.65 m	0.90 m	M10	M10
2	32ø	3.65 m	1.20 m	M10	M10
3	40ø	4.50 m	1.50 m	M10	M10
4	50ø	4.50 m	1.50 m	M10	M10
5	65ø	4.50 m	1.50 m	M10	M10
6	80ø	4.50 m	1.50 m	M10	M10
7	100ø	4.50 m	1.50 m	M10	M10
8	150ø	4.50 m	1.50 m	M12	M12

LEGEND

	OS & Y GATE VALVE WITH TAMPER SWITCH/ FLOOR CONTROL VALVE/ ZONE CONTROL VALVE
	FLOOR CONTROL VALVE
	ZONE CONTROL VALVE
	FLOW SWITCH
	NON RETURN VALVE
	SIGHT GLASS
	ISOLATING VALVE
	SPRINKLER
	LANDING VALVE
	FROM ABOVE
	FROM BELOW
	TO ABOVE
	TO BELOW
	STRAINER
	SOLENOID VALVE

SPRINKLER DESIGN CONDITIONS

SPRINKLER TYPE	: SPRAY PENDENT/ SIDE WALL, UPRIGHT
	: K _c FACTOR 5.6,
	: 68°C QUICK RESPONSE
TYPE OF SPRINKLER SYSTEM	: WET TYPE
MODE OF PROTECTION	: UNDER CEILING
HAZARD CLASSIFICATION	: LIGHT HAZARD OCCUPANCY
AREA OF OPERATION	: 1500 SQ. FEET (144 m ²)
DENSITY	: 0.10 GPM/SQ.FT
No. OF SPRINKLERS	: 12 Nos.
IN AREA OF OPERATION	