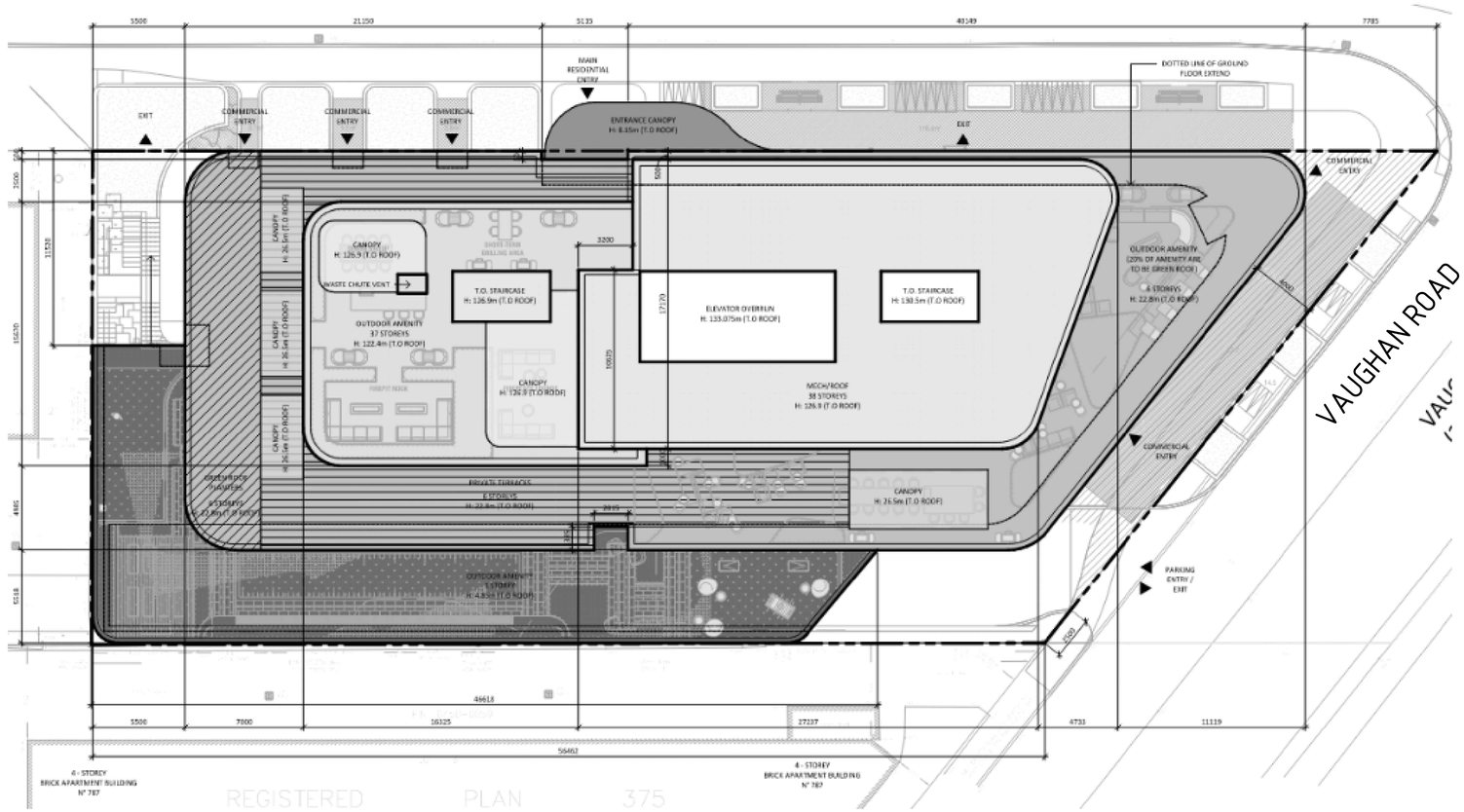
FIRE PROTECTION DRAWINGS	
DRG. NO.	DESCRIPTION
SP-01	SITE PLAN AND GENERAL NOTES
SP-02	NFPA RULES AND GENERAL DETAILS 1
SP-03	NFPA RULES AND GENERAL DETAILS 2
SP-04	GENERAL NOTES AND VALVE SCHEDULE
SP-05	RISER SCHEMATIC & DETAILS
SP-06	RISER SCHEMATIC & DETAILS (CONT...)
SP-07	ISOMETRIC DIAGRAM - LOW PRESSURE ZONE
SP-08	ISOMETRIC DIAGRAM - HIGH PRESSURE ZONE
SP-09	P3 LEVEL
SP-10	P2 LEVEL
SP-11	P1 LEVEL
SP-12	GROUND FLOOR
SP-13	UPPER GROUND FLOOR
SP-14	2ND FLOOR
SP-15	3RD FLOOR TO 5TH FLOOR
SP-16	6TH FLOOR
SP-17	7TH FLOOR
SP-18	8TH FLOOR
SP-19	9TH FLOOR
SP-20	10TH-12TH FLOOR
SP-21	13TH-21ST FLOOR
SP-22	22TH-23RD FLOOR
SP-23	24TH-33TH FLOOR
SP-24	34TH FLOOR
SP-25	35TH FLOOR
SP-26	36TH FLOOR
SP-27	37TH FLOOR
SP-28	38TH FLOOR
SP-29	AMENITY FLOOR
SP-30	MECH. PENTHOUSE
SP-31	ELEVATOR MACHINE ROOM

775 Vaughan will be located at 775 Vaughan Road, Toronto ON., as shown in Figure 3-1.



SITE PLAN

GENERAL NOTES

NOTE 1:
SPRINKLERS SHALL BE INSTALLED IN ALL OF BATHROOMS AND CLOSETS AS PER NFPA-13.

NOTE 2:
WHERE SIDEWALL SPRINKLER IS INSTALLED AT SOFFIT (BULKHEAD) EXCEEDING MORE THAN 8" IN WIDTH, PENDENT SPRINKLERS SHALL BE INSTALLED UNDER THE SOFFIT (BULKHEAD).

NOTE 3:
RESIDENTIAL SIDEWALL SPRINKLERS SHALL BE PERMITTED TO BE INSTALLED IN THE FACE OF A SOFFIT LOCATED DIRECTLY OVER CABINETS WITHOUT REQUIRING ADDITIONAL SPRINKLERS BELOW THE SOFFIT OR CABINETS WHERE THE SOFFIT DOES NOT PROJECT HORIZONTALLY MORE THAN 12" FROM THE WALL.

NOTE 4:
IF CPVC PIPE IS USED, CONTRACTOR TO PROVIDE "EXPANSION OFFSET LOOP" ON STRAIGHT RUNS EXCEEDING 100 FT IN LENGTH.

NOTE 5:
ANY FIRE STOPPING, ACOUSTIC SEALANT AND MATERIALS USED IN THIS PROJECT WHICH COME IN CONTACT WITH CPVC SPRINKLER PIPING IS TO BE COMPATIBLE. WITH CPVC PIPING.

NOTE 6:
CONTRACTOR SHALL COORDINATE WITH LIGHTING, DIFFUSER & INTERIOR DESIGN DRAWINGS PRIOR TO INSTALLATION OF SPRINKLER SYSTEM.

PENDENT SPRINKLERS SHALL BE POSITIONED AWAY FROM LIGHT FIXTURES A MIN. DISTANCE OF 4 TIMES THE MAX. DIMENSION OF THE OBSTRUCTION (FIXTURE). THE MAX. 36".

NOTE 7:
SPRINKLER LAYOUT BASED ON BULKHEADS BEING MAXIMUM 12" DEEP AS PER ARCH. DWGS. ADDITIONAL SIDEWALL SPRINKLERS MAY BE REQUIRED IF BULKHEAD DEPTH EXCEEDS 12".

NOTE 8:
CEILING POCKETS IN BEDROOMS

SPRINKLERS ARE REQUIRED IN ALL CEILING POCKETS, EXCEPT BEDROOMS THAT CONFORM TO THE FOLLOWINGS.

1) THE TOTAL VOLUME OF THE UNPROTECTED CEILING POCKET DOES NOT EXCEED 100 CU.FT.
2) THE DEPTH OF THE UNPROTECTED CEILING POCKET DOES NOT EXCEED 12 IN.
3) THE PENDENT SPRINKLER IS WITHIN 10' OF ALL OF WALLS.
4) THE INTERIOR FINISH OF THE UNPROTECTED CEILING POCKET IS NONCOMBUSTIBLE OR LIMITED-COMBUSTIBLE CONSTRUCTION.

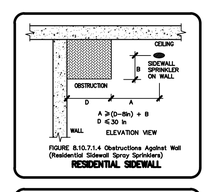
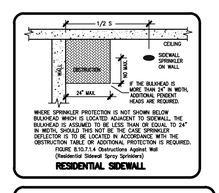
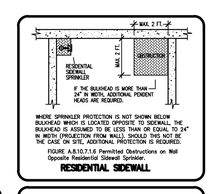


FIGURE 8.10.7.1.4 Obstructions Against Wall (Residential Sidewall Spray Sprinklers)
RESIDENTIAL SIDEWALL



WHERE SPRINKLER PROTECTION IS NOT SHOWN BELOW BULKHEAD WHICH IS LOCATED ADJACENT TO SIDEWALL, THE BULKHEAD IS ASSUMED TO BE LESS THAN OR EQUAL TO 24" IN WIDTH (PROJECTION FROM WALL). SHOULD THIS NOT BE THE CASE ON SITE, OBSTRUCTION IS TO BE LOCATED IN ACCORDANCE WITH THE OBSTRUCTION TABLE OR ADDITIONAL PROTECTION IS REQUIRED.
FIGURE 8.10.7.1.4 Obstructions Against Wall (Residential Sidewall Spray Sprinklers)
RESIDENTIAL SIDEWALL



WHERE SPRINKLER PROTECTION IS NOT SHOWN BELOW BULKHEAD WHICH IS LOCATED OPPOSITE TO SIDEWALL, THE BULKHEAD IS ASSUMED TO BE LESS THAN OR EQUAL TO 24" IN WIDTH (PROJECTION FROM WALL). SHOULD THIS NOT BE THE CASE ON SITE, ADDITIONAL PROTECTION IS REQUIRED.
FIGURE. A.8.10.7.1.6 Permitted Obstructions on Wall Opposite Residential Sidewall Sprinkler.
RESIDENTIAL SIDEWALL

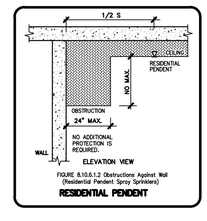
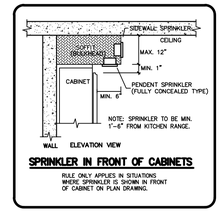


FIGURE 8.10.6.1.2 Obstructions Against Wall (Residential Pendent Spray Sprinklers)
RESIDENTIAL PENDENT



SPRINKLER IN FRONT OF CABINETS
RULE ONLY APPLIES IN SITUATIONS WHERE SPRINKLER IS SHOWN IN FRONT OF CABINET ON PLAN DRAWING.

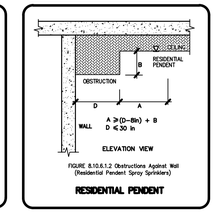


FIGURE 8.10.6.1.2 Obstructions Against Wall (Residential Pendent Spray Sprinklers)
RESIDENTIAL PENDENT

NO	DATE	DESCRIPTION
X	XX XX/XXX	XXXXXXXXXXXXXX

ISSUED/REVISION RECORD

PROJECT

PROPOSED MIXED-USED DEVELOPMENT

ADDRESS:
775-783 Vaughan Rd & 670-680 Northcliffe Blvd, York, ON

DRAWING TITLE

SITE PLAN AND GENERAL NOTES

LIFELINE FIRE PROTECTION
www.lifelinefireprotection.com
50 Casmir Court, Concord, ON
L4K 4J5
(416)850-9477

PROJECT NORTH TRUE NORTH

22-0007
PROJECT

SK RJ
BY REVIEWED

SP-01

FIRE PROTECTION NOTES:

PROJECT SCOPE OF WORK:

THIS PROJECT CONSISTS OF DESIGNING AND INSTALLING AN OVERHEAD WET & DRY SPRINKLER SYSTEM ALONG WITH STANDPIPE SYSTEM IN A NEW 41 STOREY

APARTMENT BUILDING. THE BUILDING AREA IS APPROXIMATELY 14,714 SQ FT (1,367 SQ.M) AND THE STARTING POINT OF INSTALLATION IS 6" FLANGED CONNECTION LOCATED IN THE SPRINKLER ROOM.

BUILDING DETAILS:

BUILDING DESCRIPTION: NEW 41-STOREY RESIDENTIAL/ MIXED USE BUILDING
FIRE ALARM: YES
BUILDING CONSTRUCTION: NON-COMBUSTIBLE, CONCRETE SLAB
ONTARIO BUILDING CODE CLASSIFICATION: GROUP C , GROUP A2 & GROUP F3 OCCUPANCY

SPRINKLER SYSTEM DESIGN:

THIS SPRINKLER SYSTEM HAS BEEN DESIGNED IN ACCORDANCE WITH THE FOLLOWING CODES & STANDARDS:

- NFPA 13 (2013) "STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS"
- THE ONTARIO BUILDING CODE (2012)

DESIGN CRITERIA - RESIDENTIAL:

AREAS INCLUDED:
RESIDENTIAL SUITES & ADJOINING CORRIDORS
CODE REFERENCES:
1. NFPA 13 - FIGURE 11.3.1.1: FOUR ADJACENT SPRINKLERS THAT PRODUCE THE GREATEST HYDRAULIC DEMAND
2. NFPA 13 - FIGURE 11.3.1.3: THE GREATER OF
   2.1. - 0.10 GPM/FT2 OVER THE DESIGN AREA OF THE SPRINKLER HEADS, OR
   2.2. - THE MINIMUM FLOW RATES INDICATED IN THE SPRINKLER LISTING.

NFPA 13 - 11.3.2.2 AND TABLE 11.2.3.1.2: RESIDENTIAL HAZARD -> 100 GPM HOSE ALLOWANCE

DESIGN CRITERIA - ORDINARY HAZARD I:

AREAS INCLUDED:
MECHANICAL PENTHOUSE, BIKE STORAGE, PARKING GARAGE
CODE REFERENCES:
1. NFPA 13 - FIGURE 11.2.3.1.1: CHOOSE 0.15 USGPM / FT2 OVER 1,500 SQ. FT
2. NFPA 13 - FIGURE 11.2.3.2.3.1: A DESIGN AREA INCREASE OF 30% WAS APPLIED FOR DRY SYSTEM. THE RESULTING DESIGN AREA IS 1950 SQ. FT
3. NFPA 13 - TABLE 11.2.3.1.2: ORDINARY HAZARD I -> 250 USGPM HOSE ALLOWANCE

STORAGE CRITERIA:
AS PER NFPA 13, PRODUCT STORAGE IS NOT TO EXCEEDTHE FOLLOWING HEIGHTS FOR ORDINARY HAZARD I OCCUPANCIES:
- CLASS I COMMODITIES: 12'-0" HIGH MAXIMUM (SOLID PILE OR RACK)
- CLASS II COMMODITIES: 10'-0" HIGH MAXIMUM (SOLID PILE OR RACK)
- CLASS III-IV COMMODITIES: NOT PERMITTED
- PLASTICS COMMODITIES: NOT PERMITTED

NO IDLE WOOD OR PLASTIC PALLET STORAGE ALLOWED

DESIGN CRITERIA - ORDINARY HAZARD II:

AREAS INCLUDED:
LOCKER ROOMS, GARBAGE ROOM
CODE REFERENCES:
1. NFPA 13 - FIGURE 11.2.3.1.1: CHOOSE 0.2 USGPM / FT2OVER 1,500 SQ. FT
2. NFPA 13 - FIGURE 11.2.3.2.3.1: A DESIGN AREA INCREASE OF 30% WAS APPLIED FOR DRY SYSTEM. THE RESULTING DESIGN AREA IS 1950 SQ. FT
3. NFPA 13 - TABLE 11.2.3.1.2: ORDINARY HAZARD II -> 250 USGPM HOSE ALLOWANCE

STORAGE CRITERIA:

AS PER NFPA 13, PRODUCT STORAGE IS NOT TO EXCEEDTHE FOLLOWING HEIGHTS FOR ORDINARY HAZARD II OCCUPANCIES:
- CLASS I-III COMMODITIES: 12'-0" HIGH MAXIMUM (SOLID PILE OR RACK)
- CLASS IV COMMODITIES: 12'-0" HIGH MAXIMUM (SOLID PILE)
- CLASS IV COMMODITIES: 10'-0" HIGH MAXIMUN (RACK)
- PLASTICS COMMODITIES: 5'-0" HIGH MAXIMUM (SOLID PILE)

NO IDLE WOOD OR PLASTIC PALLET STORAGE ALLOWED

DESIGN CRITERIA - LIGHT HAZARD:

AREAS INCLUDED:
AMENITIES, MAIL ROOM
CODE REFERENCES:
1. NFPA 13 - FIGURE 11.2.3.1.1: CHOOSE 0.10 USGPM/FT2 OVER 1,500 SQ. FT
2. NFPA 13 - FIGURE 11.2.3.2.3.1: A DESIGN AREA REDUCTION OF 40% WAS APPLIED FOR QUICK RESPONSE SPRINKLERS, THE RESULTING DESIGN IS 900 SQ. FT.
3. NFPA 13 - TABLE 11.2.3.1.2: LIGHT HAZARD -> 100 USGPM HOSE ALLOWANCE

STANDPIPE DESIGN:

THE STANDPIPE SYSTEM HAS BEEN DESIGNED IN ACCORDANCE WITH THE FOLLOWING CODES & STANDARDS:
- NFPA 14 (2013) "STANDARD FOR THE INSTALLATION OF STANDPIPE SYSTEMS"
- THE ONTARIO BUILDING CODE (2012)

STANDPIPE DESIGN CRITERIA:

BUILDING HEIGHT: 134 M (440 feet)
NUMBER OF STOREYS: 41
BUILDING AREA: 1367 SQ.M (14,714 SQ.FT)

ONTARIO BUILDING CODE (OBC) REFERENCES:
1. OBC 3.2.9.3.(1): 38 MM (1-1/2") HOSE VALVES ARE REQUIRED
2. OBC 3.2.9.3. (2): 65 mm (2-1/2") HOSE VALVES ARE REQUIRED
3. OBC 3.2.9.7 (4) : IF THE BUILDING IS 84M OR HIGH, MEASURED BETWEEN GRADE AND THE CEILING LEVEL IF THE TOP STOREY, THE BUILDING SHALL BE SERVED BY NO FEWER THAN TWO SOURCES OF WATER SUPPLY FROMA PUBLIC WATER SYSTEM.

NFPA 14 SYSTEM CLASS:
CLASS I WET STANDPIPE SYSTEM

WATER SUPPLY INFORMATION:

STATIC: 60 PSI
RESIDUAL : 52PSI

HANGERS:
REFER TO THE HANGER DETAILS SECTION

MATERIAL NOTES:
ALL MATERIALS SHALL BE ULC LISTED FOR FIRE PROTECTION USE IN ACCORDANCE WITH NFPA 13 STANDARDS.

ITEMS NOT INCLUDED IN THIS CONTRACT:

- ELECTRICAL WIRING OF SPRINKLER DEVICES
- PAINTED OR GALVANIZED SPRINKLER PIPING
- UNDERGROUND/ INCOMING WATER SUPPLY
- FIRE EXTINGUISHERS

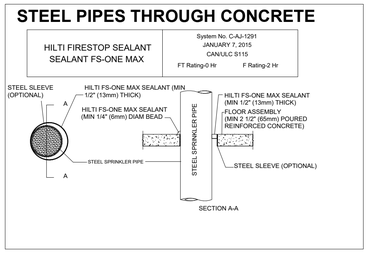
NOTES TO THE OWNER / OCCUPANTS:

THE OWNER / OCCUPANT IS RESPONSIBLE FOR SUPPLYING & MAINTAINING ADEQUATE HEAT (4°C, 40°F) TO ALL AREAS WHERE WET PIPING IS INSTALLED IN ORDER TO PREVENT THE WET PIPING FROM FREEZING.

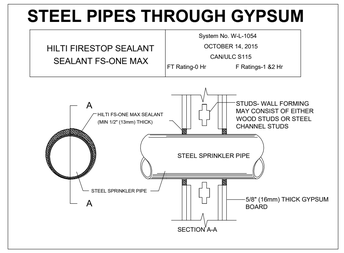
GENERAL SPECIFICATIONS:

1. THESE DRAWINGS ARE FOR PERMIT AND TENDER PURPOSES AND ARE NOT TO BE USED FOR CONSTRUCTION.
4. THE FIRE PROTECTION CONTRACTOR IS TOCOORDINATE INSTALLATION WITH NEW AND EXISTING SITE CONDITIONS AND ACCEPT RESPONSIBILITY FOR COORDINATION ACTIVITIES AND COST OF MAKING ADJUSTMENTS TO PIPE ROUTING AND SIZES TO AVOID INTERFERENCE WITH ARCHITECTURAL, STRUCTURAL AND MEP SERVICES. VERIFY ALL DIMENSIONS AND REPORT DISCREPANCIES TO THE DESIGN CONSULTANTS BEFORE PROCEEDING WITH THE WORK.
5. UPON COMPLETION OF INSTALLATION, THE FIRE PROTECTION CONTRACTOR SHALL HYDROSTATICALLY TEST THE SYSTEM(S) IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA 13 (2013) AND SUBMIT COMPLETED CONTRACTOR'S MATERIAL AND TEST CERTIFICATES TO THE AUTHORITY HAVING JURISDICTION AND THE DESIGN CONSULTANTS.
6. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL LOCAL CODES, STANDARDS, BY-LAWS,PROJECT SPECIFICATIONS, AND AUTHORITIES HAVING JURISDICTION.
7. ALL SYSTEM COMPONENTS TO BE ULC LISTED AND IN ACCORDANCE WITH NFPA 13 (2013).
8. THE FIRE PROTECTION CONTRACTOR SHALLPROVIDE A MATERIAL DATA SUBMITTAL PACKAGE TO THE DESIGN CONSULTANTS FOR REVIEWPRIOR TO FABRICATION AND INSTALLATION.
9. MEET ALL OBSTRUCTION CRITERIA INACCORDANCE WITH NFPA 13 (2013).
10. PROVIDE SPRINKLER HEADS OF A SUITABLE TEMPERATURE RATING BASED ON THE PROXIMITY TO ALL HEAT SOURCES IN ACCORDANCE WITH NFPA 13(2013).
11. INSTALL WIRE GUARDS ON ALL SPRINKLER HEADS SUSCEPTIBLE TO MECHANICAL DAMAGE INCLUDING BUT NOT LIMITED TOMECHANICAL ROOMS, ELECTRICAL ROOMS, STORAGE ROOMS, GYMNASIUMS, UNDER STAIRS, ETC.
12. PROVIDE LOW POINT DRAINS ON ALL TRAPPED SECTIONS OF PIPE IN ACCORDANCE WITH NFPA 13 (2013). DISCHARGE TO AN APPROVED LOCATION.
13. PROVIDE A STOCK OF SPARE SPRINKLER HEADS AND ASSOCIATED WRENCHES IN A METAL CABINET MOUNTED ON THE WALL NEAR THE MAIN FIRE PROTECTION VALVE HEADER. AMOUNT OF SPARE SPRINKLER HEADS TO BE PER NFPA 13 (2013).
14. FIRE STOP ALL PENETRATIONS IN RATED WALLS, CEILINGS AND FLOORS WITH LISTED AND APPROVED SYSTEMS.
15. ALL ELECTRICAL WIRING OF FIRE PROTECTIONDEVICES IS BY OTHERS, COORDINATE WITH ELECTRICAL AND FIRE ALARM CONTRACTORS.
16. ALL PIPE LENGTHS ARE SHOWN AS CENTRE-TO-CENTRE LENGTHS.

STEEL PIPES THROUGH CONCRETE



STEEL PIPES THROUGH GYPSUM

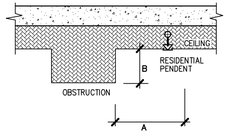


FIRESTOP DETAILS

SCALE: N.T.S.

DISTANCE FROM SPRINKLER TO SIDE OF OBSTRUCTION. (A)	MAXIMUM ALLOWABLE DISTANCE OF DEFLECTOR ABOVE BOTTOM OF OBSTRUCTION. (IN.) (B)
LESS THAN 1'-6"	0
1'-6" TO LESS THAN 3'-0"	1
3'-0" TO LESS THAN 4'-0"	3
4'-0" TO LESS THAN 4'-6"	5
4'-6" TO LESS THAN 6'-0"	7
6'-0" TO LESS THAN 6'-6"	9
6'-6" TO LESS THAN 7'-0"	11
7'-0" AND GREATER	14

NFPA 13 TABLE 8.10.6.1.2.
POSITIONING OF SPRINKLER TO AVOID OBSTRUCTION TO DISCHARGE. (RESIDENTIAL PENDENT SPRINKLERS)



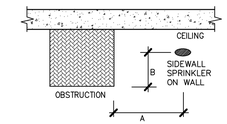
ELEVATION VIEW

FIGURE 8.10.6.1.2(a) Positioning of Sprinkler to Avoid Obstructions to Discharge (Residential Pendent Sprinkler).

RESIDENTIAL PENDENT

DISTANCE FROM SIDEWALL SPRINKLER TO SIDE OF OBSTRUCTION. (A)	MAXIMUM ALLOWABLE DISTANCE OF DEFLECTOR ABOVE BOTTOM OF OBSTRUCTION. (IN.) (B)
LESS THAN 1'-6"	0
1'-6" TO LESS THAN 3'-0"	1
3'-0" TO LESS THAN 4'-0"	3
4'-0" TO LESS THAN 4'-6"	5
4'-6" TO LESS THAN 6'-0"	7
6'-0" TO LESS THAN 6'-6"	9
6'-6" TO LESS THAN 7'-0"	11
7'-0" TO LESS THAN 7'-6"	14

NFPA 13 TABLE 8.10.7.1.4.
POSITIONING OF SPRINKLER TO AVOID OBSTRUCTION ALONG WALL. (RESIDENTIAL SIDEWALL SPRINKLERS)

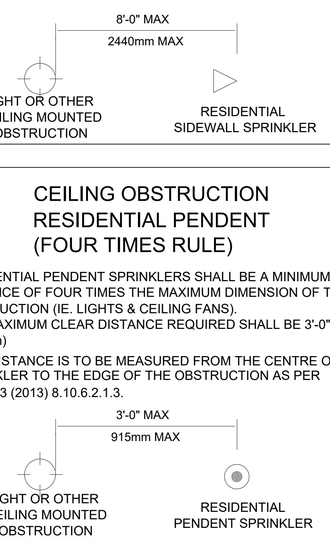


ELEVATION VIEW

NFPA 13 FIGURE 8.10.7.1.4.
POSITIONING OF SPRINKLER TO AVOID OBSTRUCTION ALONG WALL. (RESIDENTIAL SIDEWALL SPRINKLERS)

CEILING OBSTRUCTION RESIDENTIAL SIDEWALL

THE CLEAR DISTANCE REQUIRED SHALL BE 8'-0" (2440mm)
THIS DISTANCE IS TO BE MEASURED FROM THE CENTRE OF THE SPRINKLER TO THE EDGE OF THE OBSTRUCTION AS PER NFPA 13 (2013) 8.10.7.1.2



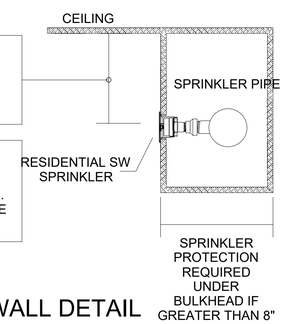
CEILING OBSTRUCTION RESIDENTIAL PENDENT (FOUR TIMES RULE)

RESIDENTIAL PENDENT SPRINKLERS SHALL BE A MINIMUM DISTANCE OF FOUR TIMES THE MAXIMUM DIMENSION OF THE OBSTRUCTION (IE, LIGHTS & CEILING FANS).
THE MAXIMUM CLEAR DISTANCE REQUIRED SHALL BE 3'-0" (914mm)

THIS DISTANCE IS TO BE MEASURED FROM THE CENTRE OF THE SPRINKLER TO THE EDGE OF THE OBSTRUCTION AS PER NFPA 13 (2013) 8.10.6.2.1.3.

ALL RESIDENTIAL SIDEWALL SPRINKLERS TO BE INSTALLED BETWEEN 6"-12" DOWN FROM THE CEILING

NOTE: SPRINKLERS ARE TO BE LOCATED IN STRICT CONFORMANCE WITH THE OBSTRUCTION RULES IN NFPA 13. SEE TABLES & FIGURES ON THESE DRAWINGS.

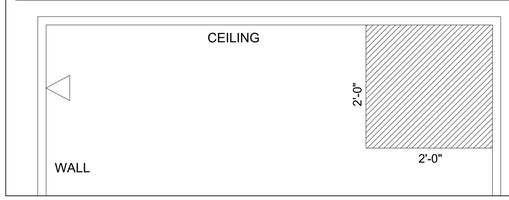


RESIDENTIAL SIDEWALL DETAIL

NOT TO SCALE

PERMITTED OBSTRUCTION ON WALL OPPOSITE RESIDENTIAL SIDEWALL SPRINKLERS

FIGURE A.8.10.7.1.6



GENERAL INSTALLATION NOTES:

RESIDENTIAL SIDEWALL SPRINKLERS:

1. THE AREA OF RESIDENTIAL SIDEWALL COVERAGE NOT TO EXCEED 288 SQ.FT.
2. THE MIN. DISTANCE BETWEEN RESIDENTIAL SIDEWALL SPRINKLERS TO BE 8'-0".
3. THE MAX. DISTANCE BETWEEN RESIDENTIAL SIDEWALL SPRINKLERS TO BE 16'-0".
4. NO SPRINKLER IS TO BE LOCATED WITHIN THE MAXIMUM PROTECTION AREA OF ANOTHER SPRINKLER. UNLESS THERE IS NO WAY THAT SPRINKLERS WILL COLD SOLDER BASED ON THE LOCATION OF THE SPRINKLER DEFLECTORS. (UNLESS AT DIFFERENT ELEVATIONS).
5. SPRINKLERS TO BE LOCATED MIN. DISTANCE OF 4" FROM AN END WALL AND SHALL NOT EXCEED ONE-HALF OF THE ALLOWABLE DISTANCE PERMITTED BETWEEN SPRINKLERS.
6. MINIMUM DISTANCE BETWEEN SIDEWALL SPRINKLER AND LIGHT FIXTURES AND SIMILAR OBSTRUCTIONS TO BE 8 FEET. SEE FIGURE 8.10.7.1.3.
7. SPRINKLER DEFLECTOR TO BE LOCATED A MIN. OF 9" FROM CEILING.
8. WHERE SOFFITS USED FOR THE INSTALLATION OF SPRINKLERS EXCEED 8 INCHES IN WIDTH OR PROJECTION FROM WALL, ADDITIONAL SPRINKLERS SHALL BE INSTALLED BELOW THE SOFFIT.
9. OBSTRUCTIONS ON THE WALL OPPOSITE FROM THE SIDEWALL SPRINKLER SHALL BE PERMITTED WHERE OBSTRUCTION IS UP TO 2 FT DEEP AND 2 FT WIDE.
10. IN SITUATIONS WHERE BULKHEADS ARE MORE THAN 24 INCHES AND LESS THAN 30 INCHES IN WIDTH OR PROJECTION FROM WALL, SIDEWALL SPRINKLER TO BE LOCATED A MINIMUM OF 26" FROM THE NEAREST SIDE OF BULKHEAD (BASED ON A SPRINKLER DEFLECTOR LOCATED NO MORE THAN 4 INCHES ABOVE THE ELEVATION OF THE BOTTOM OF THE BULKHEAD).
11. ALL WIDTHS OF BULKHEADS HAVE BEEN MEASURED IN AUTOCAD FROM ARCHITECTURAL DRAWINGS. PENDANT SPRINKLERS HAVE BEEN ADDED FOR ALL BULKHEADS WITH WIDTHS IN EXCESS OF 24" WHERE SIDEWALL SPRINKLER IS FACING THE BULKHEAD (IN FRONT OF) AND 30" WHEN SIDEWALL SPRINKLER IS BESIDE THE BULKHEAD (UNLESS SIDEWALL SPRINKLER IS LOCATED FAR ENOUGH AWAY FROM FACE OF BULKHEAD SO THAT WATER SPRAY IS NOT OBSTRUCTED).
12. SPRINKLER TO BE LOCATED AS PER OBSTRUCTION RULES TO PREVENT THE WATER PATTERN FROM FULLY DEVELOPING.
13. SEE OBSTRUCTION RULES ON SP-1.

RESIDENTIAL PENDENT SPRINKLERS:

1. THE AREA OF RESIDENTIAL PENDENT COVERAGE NOT TO EXCEED 288 SQ.FT.
2. THE MIN. DISTANCE BETWEEN RESIDENTIAL PENDENT SPRINKLERS TO BE 8'-0".
3. THE MAX. DISTANCE BETWEEN RESIDENTIAL PENDENT SPRINKLERS TO BE 20'-0".
4. NO SPRINKLER IS TO BE LOCATED WITHIN THE MAXIMUM PROTECTION AREA OF ANOTHER SPRINKLER. UNLESS THERE IS NO WAY THAT SPRINKLERS WILL COLD SOLDER BASED ON THE LOCATION OF THE SPRINKLER DEFLECTORS. (UNLESS AT DIFFERENT ELEVATIONS).
5. SPRINKLERS TO BE LOCATED MIN. DISTANCE OF 4" FROM AN END WALL AND SHALL NOT EXCEED 10 FT. FROM AN END WALL.
6. SPRINKLER DEFLECTOR TO BE LOCATED 1" TO 4" FROM THE CEILING.
7. SPRINKLER TO BE LOCATED AS PER OBSTRUCTION RULES TO PREVENT THE WATER PATTERN FROM FULLY DEVELOPING. (SEE DETAIL ON DRAWINGS).
8. SEE OBSTRUCTION RULES ON SP-1.

NO	DATE	DESCRIPTION
X	XXX XX/XXXX	XXXXXXXXXXXXXXXX

ISSUED/REVISION RECORD

PROJECT

PROPOSED MIXED-USED DEVELOPMENT

ADDRESS:
775-783 Vaughan Rd & 670-680 Northcliffe Blvd, York, ON

DRAWING TITLE

NFPA RULES AND GENERAL DETAILS 1

LIFELINE FIRE PROTECTION
www.lifelinefireprotection.com
50 Casmir Court, Concord, ON
L4K 4J5
(416)850-9477

PROJECT NORTH TRUE NORTH

22-0007
PROJECT
SK RJ
BY REVIEWED

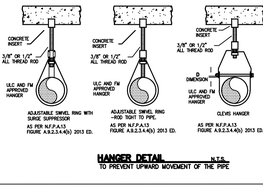
SP-02

WHEN MANUAL SPRINKLERS EXCEED 300 PSI FOR PENDANT SIDE SPRINKLERS & 200PSI FOR PENDANT SPRINKLERS BELOW A CEILING

1.) THE HANGER ASSEMBLY SUPPORTING THE PIPE SUPPLYING AN END SPRINKLER IN THE PENDENT POSITION SHALL BE OF A TYPE THAT PREVENTS UPWARD MOVEMENT OF THE PIPE WHEN SUBJECTED TO THE FORCE OF AN END SPRINKLER IN A PENDENT POSITION (OR A DROP NIPPLE) AND THE LAST HANGER ON THE BRANCH LINE SHALL NOT BE GREATER THAN 12" FOR STEEL PIPE OR 6" FOR COPPER PIPE.

2.) THE CUMULATIVE HORIZONTAL LENGTH OF AN UNSUPPORTED DROP PIPE FROM THE BRANCH OR SPRINKLER DROP SHALL NOT EXCEED 12" FOR STEEL PIPE OR 6" FOR COPPER PIPE. THE HANGER CLOSEST TO THE SPRINKLER SHALL BE OF A TYPE THAT PREVENTS UPWARD MOVEMENT OF THE PIPING.

PIPE SIZE	D DIMENSION	PIPE SIZE	D DIMENSION
1"	¼"	2"	½"
1¼"	¼"	2½"	½"
1½"	¼"		



HANGER DETAIL N.T.S.
TO PREVENT UPWARD MOVEMENT OF THE PIPE

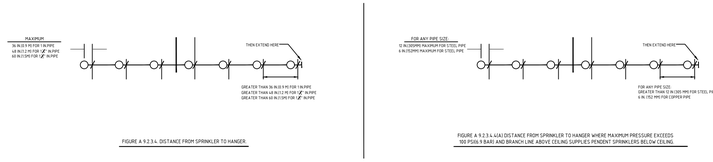
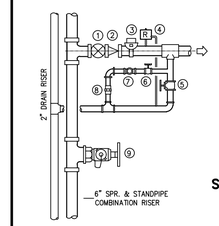


FIGURE A.9.2.3.4. DISTANCE FROM SPRINKLER TO HANGER.

FIGURE A.9.2.3.4.(a).DISTANCE FROM SPRINKLER TO HANGER WHERE MAXIMUM PRESSURE EXCEEDS 100 PSIG.9.BAR) AND BRANCH LINE ABOVE CEILING SUPPLIES PENDENT SPRINKLERS BELOW CEILING.

Table 8.3.2.5(c) Temperature Ratings of Sprinklers in Specified Residential Areas

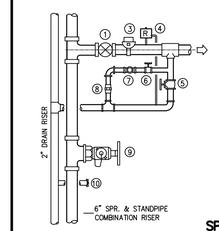
Heat Source	Minimum Distance from Edge of Source to Ordinary-Temperature Sprinkler (in.)	Minimum Distance from Edge of Source to Intermediate-Temperature Sprinkler (in.)
Side of open or recessed fireplace	36	12
Front of recessed fireplace	60	36
Kitchen range	18	9
Uninsulated heat ducts	18	9
Uninsulated 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 0W-250W	6	3
Light fixture 250W-499W	12	6



① 2" OR 3" SUPERVISED STANDARD VALVE (SPRINKLER SYSTEM)
② CHECK VALVE
③ ZONE FLOW SWITCH
④ 1/2" RELIEF VALVE. (SET AT 175 PSI)
⑤ DRAIN GLOBE VALVE
⑥ TEST AND DRAIN VALVE
⑦ 1" INSPECTOR TEST VALVE SIGHT GLASS
⑧ UNION WITH CORROSION RESISTANT ORIFICE GIVING FLOW EQUIVALENT TO SMALLEST SPRINKLER ORIFICE IN SYSTEM.
⑨ 2½" FIRE HOSE VALVE (MODEL A56 OR SIMILAR) (FIRE STANDPIPE SYSTEM)

SPRINKLER CONTROL VALVE STATION AND 2½ FIRE HOSE VALVE

GF TO 13TH FLOOR &
26TH FLOOR TO MACHINE ROOM



① 2½" PRESSURE REGULATING VALVE. (MODEL ZW4024 ILSS OR SIMILAR) (SPRINKLER SYSTEM)
PRV. SET AT 150 GPM @ 110 PSI
③ ZONE FLOW SWITCH
④ 1/2" RELIEF VALVE. (SET AT 175 PSI)
⑤ DRAIN GLOBE VALVE
⑥ TEST AND DRAIN VALVE
⑦ 1" INSPECTOR TEST VALVE SIGHT GLASS
⑧ UNION WITH CORROSION RESISTANT ORIFICE GIVING FLOW EQUIVALENT TO SMALLEST SPRINKLER ORIFICE IN SYSTEM.
⑨ 2½" PRESSURE REGULATING VALVE. C/W HOSE THREAD. (MODEL ZW4000 OR SIMILAR) (FIRE STANDPIPE SYSTEM)
⑩ 2½"CAPPED CONNECTION C/W HOSE THREAD.

SPRINKLER CONTROL VALVE STATION AND 2" FIRE HOSE VALVE

14TH FLOOR TO 25TH FLOOR

NOTE:

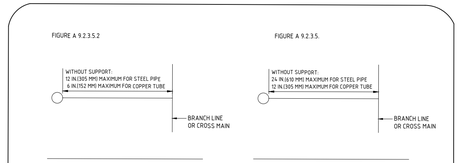
1) ADDITIONAL FOUR 38MM HOSES (30M IN LENGTH) COMPLETE WITH ASSOCIATED FITTINGS AND NOZZLES SHALL BE PROVIDED AND MAINTAINED IN EACH CACF ROOM.
ALL HOSE CONNECTIONS SHALL BE EQUIPPED WITH 65mm TO 38mm REDUCING COUPLINGS.
2) IF CONTROL VALVE OR SUPERVISORY VALVES ARE INSTALLED INSIDE THE EXITS SHALL BE LOCATED MINIMUM 2100MM ABOVE THE FLOOR LEVEL.
3) MAINTAIN THE REQUIRED EXIT WIDTH AND THE HEADROOM CLEARANCE AS PER BUILDING CODE DIV. B SENTENCES 3.4.3.2. (7), 3.4.6.4.(4) AND 3.4.3.5 OVER THE LANDING AREAS.
4) EXIT STAIRS AND HOSE VALVE CONNECTIONS SHALL BE KEPT ABOVE FREEZING POINT.
5) THE ORIENTATION OF VALVE OPENING SHALL FACE TOWARDS THE EXIT DOOR SWING AND LOCATED ON THE LATCH SIDE OF THE EXIT DOOR.
6) FLOW SWITCH & SHUT OFF VALVE TO BE SUPERVISED AND CONNECTED TO FIRE ALARM SYSTEM.
7) THE ORIENTATION OF VALVE OPENING SHALL FACE TOWARDS THE EXIT DOOR SWING AND LOCATED ON THE LATCH SIDE OF THE EXIT DOOR.
8) IN CASE OF SCISSORS STAIRS CONFIGURATION, THE STAIRWAYS SHALL BE SEPARATED FROM EACH OTHER BY SMOKE-TIGHT FIRE SEPARATION WITH 2 HOUR FRR, ULC APPROVED FIRE STOP SYSTEM AND INCLUDING ALL PIPE PENETRATIONS AT ALL FLOOR LEVELS WITHIN EXIT STAIR.
9) ALL STANDPIPE RISER TO BE LOCATED IN FIRE RATED ENCLOSURE. (OR FIRE WRAPPED)
10) FIRE EXTINGUISHERS TO BE INSTALLED IN CABINETS AS PER ARCHITECTURAL DRAWINGS AND NFPA 10 AND O.B.C.

NO	DATE	DESCRIPTION
X	XXX XX/XXXX	XXXXXXXXXXXXXXXX

ISSUED/REVISION RECORD

Table 9.2.2.1(a) Maximum Distance Between Hangers (ft-in.) 2013 EDITION

	NOMINAL PIPE SIZE (IN.)											
	¾	1	1¼	1½	2	2½	3	3½	4	5	6	8
STEEL PIPE EXCEPT THREADED LIGHT WALL	N/A	12-0	12-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0
THREADED LIGHTWALL STEEL PIPE	N/A	12-0	12-0	12-0	12-0	12-0	12-0	N/A	N/A	N/A	N/A	N/A
COPPER TUBE	8-0	8-0	10-0	10-0	12-0	12-0	12-0	15-0	15-0	15-0	15-0	15-0
CPVC	5-6	6-0	6-6	7-0	8-0	9-0	10-0	N/A	N/A	N/A	N/A	N/A
DUCTILE IRON PIPE	N/A	N/A	N/A	N/A	N/A	N/A	15-0	N/A	15-0	N/A	15-0	15-0

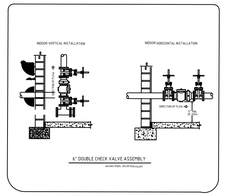


MAXIMUM LENGTH OF UNSUPPORTED ARMOVER WHERE MAXIMUM PRESSURE EXCEEDS 100PSI(6.9BAR) AND BRANCH LINE ABOVE CEILING SUPPLIES PENDENT SPRINKLERS BELOW CEILING

MAXIMUM LENGTH OF UNSUPPORTED ARMOVER

O.B.C. SECTION 3.2.5.14 COMBUSTIBLE SPRINKLER PIPING

(1) COMBUSTIBLE SPRINKLER PIPING SHALL BE USED ONLY FOR WET SYSTEMS IN RESIDENTIAL OCCUPANCIES AND OTHER LIGHT HAZARD OCCUPANCIES. (SEE APPENDIX A.)
(2) COMBUSTIBLE SPRINKLER PIPING SHALL MEET THE REQUIREMENTS OF ULC/ORD-1998-M, "GUIDE FOR THE INVESTIGATION OF COMBUSTIBLE PIPING FOR SPRINKLER SYSTEMS".
(3) COMBUSTIBLE SPRINKLER PIPING SHALL BE SEPARATED FROM THE AREA SERVED BY THE SPRINKLER SYSTEM AND FROM ANY OTHER FIRE COMPARTMENT BY CEILINGS, WALLS OR SOFFITS CONSISTING AS A MINIMUM,
(A) LATH AND PLASTER;
(B) GYPSUM BOARD NOT LESS THAN 9.5 MM (3/8 IN) THICK
(C) PLYWOOD NOT LESS THAT 13 MM (1/2 IN) THICK OR
(D) A SUSPENDED MEMBRANE CEILING WITH
(I) STEEL SUSPENSION GRID, AND
(II) LAY-IN PANELS OR TILES HAVING A MASS NOT LESS THAN 1.7 KG/SQUARE METRE (0.35 LB/SQUARE FOOT)
(4) IF COMBUSTIBLE SPRINKLER PIPING IS LOCATED ABOVE A CEILING, AN OPENING THROUGH THE CEILING THAT IS NOT PROTECTED IN CONFORMANCE WITH SENTENCE (3) SHALL BE LOCATED SO THAT THE DISTANCE BETWEEN THE EDGE OF THE OPENING AND THE NEAREST SPRINKLER IS NOT MORE THAN 300 MM (11 3/4").
(5) COMBUSTIBLE SPRINKLER PIPING PENETRATING FIRE SEPARATIONS AS TO BE FIRE STOPPED IN ACCORDANCE WITH THE ONTARIO BUIDING CODE
(6) CARE NEEDS TO BE TAKEN TO INSURE THAT PRODUCTS COMING INTO CONTACT WITH CPVC SYSTEMS ARE CHEMICALLY COMPATIBLE
(7) PRESSURE TESTING TO BE PERFORMED ONLY WHEN AMBIENT TEMPERATURE BEING WITH AIR IS PROHIBITED OR GLYCOLIN
(8) EXPANSION LOOPS ARE TO BE PROVIDED AS PER MANUFACTURER'S RECOMMENDATION.
(9) CPVC) PLASTIC PIPE TO BE INSTALLED AS PER MANUFACTURE'S (BLAZEMASTER) INSTALLATION MANUAL

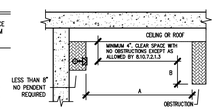


NOTE:

8.10.7.1.3
The distance between light fixtures or similar obstructions located more than 8ft from the sprinkler shall be in conformance with Table 8.10.7.1.3 and Figure 8.10.7.1.3.

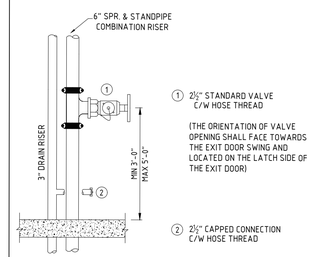
8.10.7.2.1.3
Unless the requirements of 8.10.7.2.1.4 through 8.10.7.2.1.7 are met, sprinklers shall be positions away from obstructions a minimum distance of four times the maximum dimension of the obstruction (e.g., truss webs and chords, pipe, columns, and fixtures).
(A) The maximum clear distance required from obstructions in the horizontal orientation (e.g. light fixtures and truss chords) shall be 36 in.
(B) The maximum clear distance shall not be applied to obstructions in the vertical orientation (e.g., columns).

DISTANCE FROM SIDEWALL SPRINKLER TO SIDE OF OBSTRUCTION. (A)	MAXIMUM ALLOWABLE DISTANCE OF DEFLECTOR ABOVE BOTTOM OF OBSTRUCTION. (IN.) (B)
LESS THAN 8"-0"	NOT ALLOWED
8"-0" TO LESS THAN 10"-0"	1
10"-0" TO LESS THAN 11"-0"	2
11"-0" TO LESS THAN 12"-0"	3
12"-0" TO LESS THAN 13"-0"	4
13"-0" TO LESS THAN 14"-0"	6
14"-0" TO LESS THAN 15"-0"	7
15"-0" TO LESS THAN 16"-0"	9
16"-0" TO LESS THAN 17"-0"	11
17"-0" OR GREATER	14



ELEVATION VIEW
FIGURE 8.10.7.1.3 Positioning of Sprinkler to Avoid Obstructions (Residential Sidewall Sprinkler).

RESIDENTIAL SIDEWALL

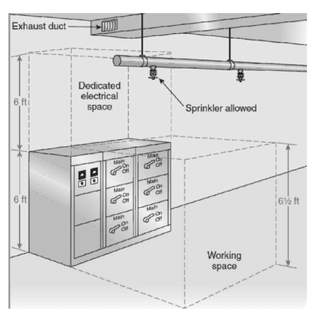


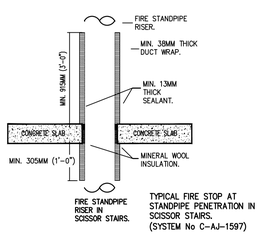
① 2½" STANDARD VALVE C/W HOSE THREAD
(THE ORIENTATION OF VALVE OPENING SHALL FACE TOWARDS THE EXIT DOOR SWING AND LOCATED ON THE LATCH SIDE OF THE EXIT DOOR)
② 2½" CAPPED CONNECTION C/W HOSE THREAD

2 ½" FIRE HOSE VALVE IN STAIRWELL
(HEATED AREA) N.T.S.

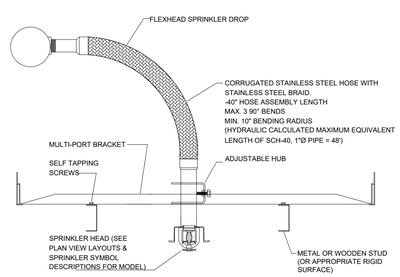
DEDICATED ELECTRICAL SPACE

AS PER NFPA13 22.31.2.1
DEDICATED ELECTRICAL SPACE:
THE SPACE EQUAL TO THE WIDTH AND DEPTH OF THE EQUIPMENT AND EXTENDING FROM THE FLOOR TO A HEIGHT OF 6 FT. ABOVE THE EQUIPMENT OR TO THE STRUCTURAL CEILING, WHICHEVER IS LOWER, SHALL BE DEDICATED TO THE ELECTRICAL INSTALLATION. NO PIPING, DUCTS, LEAK PROTECTION APPARATUS, OR OTHER EQUIPMENT FOREIGN TO THE ELECTRICAL INSTALLATION SHALL BE LOCATED IN THIS ZONE.
SPRINKLERS AND PIPING CAN BE LOCATED ABOVE THE ELECTRICAL EQUIPMENT, BUT A SHIELD NEEDS TO BE INSTALLED TO PROTECT THE ELECTRICAL EQUIPMENT FROM POTENTIAL LEAKAGE.

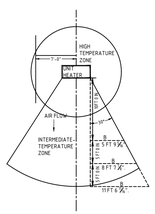




TYPICAL FIRE STOP AT STANDPIPE PENETRATION IN SCISSOR STAIRS.
(SYSTEM No C-AJ-1597)

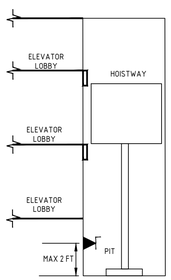


VICTAULIC FLEXIBLE DROP
N.T.S.



1) HIGH TEMPERATURE RATING SPRINKLER TO BE INSTALLED WITHIN 7FT. OF UNIT HEATER.
2) SPRINKLERS UNDER GLASS OR PLASTIC SKYLIGHTS EXPOSED TO THE DIRECT RAYS OF THE SUN SHALL BE OF THE INTERMEDIATE -TEMPERATURE CLASSIFICATION

FIGURE 8.3.2.5. HIGH- TEMPERATURE AND INTERMEDIATE TEMPERATURE ZONES AT UNIT HEATER
N.T.S.



SPRINKLER AT THE TOP AND BOTTOM OF SHAFT(PIT)

REQUIRED WHEN:
- SPRINKLER SHALL BE INSTALLED AT THE TOP AND BOTTOM OF ELEVATOR HOISTWAYS WHERE ELEVATORS UTILIZE COMBUSTIBLE SUSPENSION MEANS SUCH AS NON CIRCULAR ELASTOMERIC-COATED OR POLYURETHANE-COATED STEEL BELTS
- ELEVATOR IS HYDRAULICS TYPE

NOT REQUIRED WHEN:
- THE HOISTWAY IS NONCOMBUSTIBLE OR LIMITED-COMBUSTIBLE AND THE CAR ENCLOSURE MATERIALS MEET THE REQUIREMENTS OF ASME A17.1.
- ELEVATORS ARE FIRE SERVICE ACCESS ELEVATORS (IBC 2009-2015 SECTION 903.3.1.1(5)) OR OCCUPANT EVACUATION ELEVATORS DESIGNED PER THE INTERNATIONAL BUILDING CODE SECTION 3008 (IBC 2012-2015 SECTION 903.3.1.1.1(6))

INSTALLATION SPECIFICS
- SIDEWALL SPRAY SPRINKLERS SHALL BE INSTALLED AT THE BOTTOM OF EACH ELEVATOR HOISTWAY NOT MORE THAN 2 FT (600 MM) ABOVE THE FLOOR OF THE PIT.
- BRANCH LINES SERVING SPRINKLERS IN HOISTWAY SHALL SUPPLY NO MORE THAN ONE ELEVATOR UNLESS GOING FROM TOP FLOOR TO SHAFT ABOVE THE ROOF

SPRINKLER ELEVATOR REQUIREMENTS
N.T.S.

AS PER NFPA 13 CHAPTER 8.15.5 ELEVATOR HOISTWAYS AND MACHINE ROOMS (2013 EDITION).

8.15.5.2 THE SPRINKLER REQUIRED AT THE BOTTOM OF THE ELEVATOR HOISTWAY BY 8.15.5.1 SHALL NOT BE REQUIRED FOR ENCLOSED, NON- COMBUSTIBLE ELEVATOR SHAFTS THAT DO NOT CONTAIN COMBUSTIBLE HYDRAULIC FLUIDS.

8.15.5.3 AUTOMATIC FIRE SPRINKLERS SHALL NOT BE REQUIRED IN ELEVATOR MACHINE ROOMS, ELEVATOR MACHINERY SPACES, CONTROL SPACES, OR HOISTWAYS OF TRACTION ELEVATORS INSTALLED IN ACCORDANCE WITH THE APPLICABLE PROVISIONS IN NFPA 101, OR THE APPLICABLE BUILDING CODE, WHERE ALL OF THE FOLLOWING CONDITIONS ARE MET:
(1) THE ELEVATOR MACHINE ROOM, MACHINERY SPACE, CONTROL ROOM, CONTROL SPACE, OR HOISTWAY OF TRACTION ELEVATOR IS DEDICATED TO ELEVATOR EQUIPMENT ONLY.
(2) THE ELEVATOR MACHINE ROOM, MACHINE ROOM, MACHINERY SPACE, CONTROL ROOM, CONTROL SPACE, OR HOISTWAY OF TRACTION ELEVATORS ARE PROTECTED BY SMOKE DETECTORS, OR OTHER AUTOMATIC FIRE DETECTION, INSTALLED IN ACCORDANCE WITH NFPA 72.
(3) THE ELEVATOR MACHINERY SPACE, CONTROL ROOM, CONTROL SPACE, OR HOISTWAY OF TRACTION ELEVATORS IS SEPARATED FROM THE REMAINDER OF THE BUILDING BY WALLS AND FLOOR/CEILING OR ROOF/CEILING ASSEMBLIES HAVING A FIRE RESISTANCE RATING OF NOT LESS THAN THAT SPECIFIED BY THE APPLICABLE BUILDING CODE.
(4) NO MATERIALS UNRELATED TO ELEVATOR EQUIPMENT ARE PERMITTED TO BE STORED IN ELEVATOR MACHINE ROOMS, MACHINERY SPACES, CONTROL ROOMS, CONTROL SPACES, OR HOISTWAYS OF TRACTION ELEVATORS.
(5) THE ELEVATOR MACHINERY IS NOT OF THE HYDRAULIC TYPE.

8.15.5.4 * AUTOMATIC SPRINKLERS IN ELEVATOR MACHINE ROOMS OR AT THE TOPS OF HOISTWAYS SHALL BE OF ORDINARY- OR INTERMEDIATE- TEMPERATURE RATING.

8.15.5.5 * UPRIGHT, PENDENT, OR SIDEWALL SPRAY SPRINKLERS SHALL BE INSTALLED AT THE TOP OF ELEVATOR HOISTWAYS.

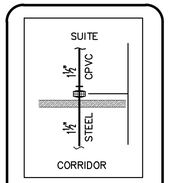
8.15.5.6 THE SPRINKLER REQUIRED AT THE TOP OF THE ELEVATOR HOIST- WAY BY 8.15.5.5 SHALL NOT BE REQUIRED WHERE THE HOISTWAY FOR PASSENGER ELEVATORS IS NONCOMBUSTIBLE OR LIMITED-COMBUSTIBLE AND THE CAR ENCLOSURE MATERIALS MEET THE REQUIREMENTS OF ASME A17.1, SAFETY CODE FOR ELEVATORS AND ESCALATORS.

8.15.5.7 COMBUSTIBLE SUSPENSION IN ELEVATORS.

8.15.5.7.1 SPRINKLERS SHALL BE INSTALLED AT THE TOP AND BOTTOM OF ELEVATOR HOISTWAYS WHERE ELEVATORS UTILIZE COMBUSTIBLE SUSPENSION MEANS SUCH AS NONCIRCULAR ELASTOMERIC-COATED OR POLYURETHANE- COATED STEEL BELTS.

8.15.5.7.2 THE SPRINKLERS IN THE ELEVATOR HOISTWAY SHALL NOT BE REQUIRED WHEN THE SUSPENSION MEANS PROVIDE NOT LESS THAN AN FT-1 RATING WHEN TESTED TO THE VERTICAL BURN TEST REQUIREMENTS OF UL 62, FLEXIBLE CORDS AND CABLES, AND UL 1581, REFERENCE STANDARD FOR ELECTRICAL WIRES, CABLES, AND FLEXIBLE CORDS.

NOTE:
1) PROVIDE ADDITIONAL SPRINKLER HEADS FOR MECHANICAL ROOMS TO ACCOMMODATE DUCTWORKS.
2) HIGH TEMPERATURE RATING SPRINKLER TO BE INSTALLED WITHIN 7FT. OF UNIT HEATER.
3) ALL OF SPRINKLERS ON MECHANICAL PENTHOUSE TO BE C/W 1" OUTLET.



PIPING TRANSITION FROM CORRIDOR TO SUITES
(TYPICAL DETAIL IF CPVC IS USED)

PROJECT

PROPOSED MIXED-USED DEVELOPMENT
ADDRESS:
775-783 Vaughan Rd & 670-680 Northcliffe Blvd, York, ON

DRAWING TITLE

NFPA RULES AND GENERAL DETAILS 2

LIFELINE FIRE PROTECTION
www.lifelinefireprotection.com
50 Casmir Court, Concord, ON
L4K 4J5
(416)850-9477

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22-0007
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SP-03

ELECTRIC FIRE PUMP SPECIFICATIONS

1.0 ALL EQUIPMENT SUPPLIED UNDER THIS SPECIFICATION SHALL BE NEW AND SHALL BE ULC-LISTED AND/OR FM-APPROVED FOR FIRE PROTECTION SERVICE AND INSTALLED AND USED AS INTENDED BY THE LISTING.

ALL PIPING, MATERIALS, VALVES, AND OTHER EQUIPMENT DOWNSTREAM OF THE FIRE PUMP SHALL BE RATED WITH A MINIMUM WORKING PRESSURE OF 300 PSI.

2.0 THE FOLLOWING ITEMS SHALL BE SUPPLIED BY THE FIRE PROTECTION CONTRACTOR.

a.) FIRE PUMPS: (LEAD & STANDBY)
750 USGPM @ 225 PSI
200 HP / 575 VOLTS / 3 PHASE(ARMSTRONG OR EQUAL)

b.) JOCKEY PUMP:
10 USGPM @ 230 PSI
3 HP / 575 VOLTS / 3 PHASE (ARMSTRONG OR EQUAL)

c.) ASSOCIATED EQUIPMENT:
CHECK VALVE, BUTTERFLY VALVE, DISCHARGE TEE, OS&Y GATE VALVE, NON CORROSIVE SENSING LINE.
3⅛" DIAL TYPE SUCTION GAUGE, 3⅛" DIAL TYPE DISCHARGE GAUGE, CIRCULATION RELIEF VALVE.

d.) LEAD-STANDBY DUEL FIRE PUMP CONTROLLER.

NOTE: FOR BUILDINGS OVER 84M, CONTROLLER TO BE LEAD-STANDBY DUAL FIRE PUMP CONTROLLER, FULL SERVICE REDUCED VOLTAGE AUTOTRANSFORMER C/W TRANSFER SWITCH.

3.0 THE AUTOMATIC TRANSFER SWITCH CONTROLLER COMBINATION SHALL BE APPROVED BY ULC. THE AUTOMATIC TRANSFER SWITCH AND THE FIRE PUMP CONTROLLER SHALL EACH BE MOUNTED IN SEPARATE ENCLOSURES, MECHANICALLY ATTACHED TO FORM ONE UNIT AND PROVIDE FOR PROTECTED INTERLOCK WIRING.

THE AUTOMATIC TRANSFER SWITCH SHALL BE CAPABLE OF AUTOMATIC POWER TRANSFER FROM NORMAL TO AN ALTERNATE EMERGENCY POWER SOURCE IN CASE OF FAILURE OF NORMAL SUPPLY AND AUTOMATICALLY RE-TRANSFER AFTER RESTORATION OF NORMAL POWER CONDITIONS.

THE AUTOMATIC TRANSFER SWITCH SHALL INCORPORATE AN EXTERNALLY OPERATED MAIN ISOLATING SWITCH, A MANUAL OPERATING HANDLE, INDICATORS, CONTACTS FOR REMOTE ALARMS, VOLTAGE FREQUENCY AND PHASE REVERSAL SENSING, TIME DELAYS AND MEMORY CIRCUIT. THE AUTOMATIC TRANSFER SWITCH IS TO BE SUPPLIED AND INSTALLED BY THE SPRINKLER CONTRACTOR.

4.0 THE JOCKEY PUMP SHALL BE CONTROLLED BY AN AUTOMATIC JOCKEY PUMP CONTROLLER WITH FULL VOLTAGE STARTER.

UPON SYSTEM PRESSURE DROP, THE JOCKEY PUMP WILL START UP AUTOMATICALLY AND PRESSURIZE THE SYSTEM TO THE SET PRESSURE AND THEN STOP. IF THE SYSTEM PRESSURE CONTINUES TO DECREASE BELOW THE RANGE OF THE JOCKEY PUMP, THE MAIN FIRE PUMP WILL START AUTOMATICALLY.

5.0 THE FIRE PUMP SHALL BE HYDROSTATICALLY TESTED TO TWICE THE MAXIMUM PRESSURE DEVELOPED AT SHUT-OFF BUT NOT LESS THAN 250 PSI. TESTS WILL MEET OR EXCEED NFPA 20 STANDARDS.

THE FIRE PUMP SHALL BE SUBJECTED TO A PERFORMANCE TEST AT RATED SPEED.

THE PUMP SHALL FURNISH NOT LESS THAN 150% OF RATED CAPACITY AT A PRESSURE NOT LESS THAN 65% OF RATED HEAD. THE SHUT-OFF TOTAL HEAD OF THE PUMP SHALL NOT EXCEED 140% OF RATED TOTAL HEAD. CERTIFIED CURVES SHALL BE SUPPLIED TO THE PURCHASER SHOWING THE EFFICIENCY, BRAKE-HORSEPOWER AND TOTAL HEAD DEVELOPED AT SHUT-OFF AT RATED CAPACITY AND AT 150% OF RATED CAPACITY.

6.0 THE FOLLOWING IS TO BE MONITORED TO FIRE ALARM SYSTEM FROM FIRE PUMP CONTROL PANEL:

1- PUMP RUNNING.
2- LOSS OF PHASE.
3- CONTROLLER CONNECTED TO ALTERNATE POWER SOURCE.
4- PHASE REVERSAL.
5- ALTERNATE SOURCE ISOLATING SWITCH OR CIRCUIT BREAKER.
6- CONTROLLER OR SYSTEM TROUBLE.
7- MANUAL MODE/OFF MODE

G E N E R A L S P E C I F I C A T I O N S

1.0 THESE DRAWINGS ARE FOR PERMIT ONLY. CONTRACTOR MUST SUPPLY SPRINKLER SHOP DRAWINGS SUITABLE FOR INSTALLATION AND RESUBMIT DRAWINGS AND CALCULATIONS TO CITY FOR APPROVAL. (IF APPLICABLE)

2.0 CONTRACTOR TO SUPPLY AND INSTALL A COMPLETE AND FULLY OPERATIONAL AUTOMATIC SPRINKLER & STANDPIPE SYSTEM AS SHOWN ON THE DRAWINGS AND AS INDICATED IN THE SPECIFICATIONS AND CONFORMING TO N.F.P.A. REQUIREMENTS, N.B.C. REQUIREMENTS AND THE REQUIREMENTS OF THE LOCAL AUTHORITIES.

3.0 UPON COMPLETION OF THE INSTALLATION, THE CONTRACTOR SHALL TEST THE SYSTEM AND SUBMIT TO THE ENGINEER COMPLETED CONTRACTORS TEST CERTIFICATES STATING THAT THE SYSTEMS HAVE BEEN INSTALLED, TESTED AND APPROVED BY THE AUTHORITIES HAVING JURISDICTION IN ACCORDANCE WITH N.F.P.A #13, LATEST OR APPLICABLE EDITION.

4.0 ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL CODES, STANDARDS BY-LAWS AND AUTHORITIES HAVING JURISDICTION.

5.0 SYSTEMS TO BE INSTALLED AS PER N.F.P.A. STANDARDS, AND LOCAL AUTHORITIES

6.0 SPRINKLER CONTRACTOR TO CO-ORDINATE INSTALLATION WITH EXISTING SITE CONDITIONS AND ACCEPT RESPONSIBILITY FOR AND COST OF MAKING ADJUSTMENTS TO PIPING TO AVOID INTERFERENCE WITH MECHANICAL, ELECTRICAL AND OTHER BUILDING COMPONENTS.

7.0 SPRINKLER CONTRACTOR TO INCLUDE FOR OFFSETS IN SPRINKLER PIPING AND MUST SUPPLY AND INSTALL TRAPEZE HANGERS WHERE REQUIRED. HANGERS FOR MAINS TO BE INSTALLED AT PANEL POINTS OF JOISTS.

8.0 ALL SPRINKLER VALVES TO BE SUPERVISED, AND U.L.C. LISTED.

9.0 SPRINKLER CONTRACTOR TO ALLOW FOR ADDITIONAL PRESSURE SWITCHES WHERE REQUIRED FOR ALARM SYSTEM.

10.0 CONTRACTOR TO ALLOW IN PRICE FOR SUFFICIENT PIPE AND FITTINGS TO INSTALL PENDENT SPRINKLERS WITHIN A 5 FT. RADIUS OF THE LOCATION SHOWN ON DRAWINGS.

11.0 BLANK

12.0 ALL MATERIALS USED IN THE INSTALLATION OF THE SPRINKLER SYSTEM SHALL BE CANADIAN MADE, UNLESS SPECIFICALLY APPROVED IN WRITING PRIOR TO INSTALLATION BY THE ARCHITECTS AND/OR ENGINEERS RESPONSIBLE FOR THE SYSTEM DESIGN.

13.0 ALL SPRINKLER EQUIPMENT SHALL BE OF ONE MANUFACTURER FROM THE FOLLOWING GRINNELL, VIKING, CENTRAL, RELIABLE OR APPROVED EQUAL. ALL SHALL BE U.L.C. LISTED FOR THEIR SPECIFIC APPLICATION.

14.0 THESE DRAWINGS ARE THE PROPERTY OF THE ENGINEERS AND SHALL NOT BE ALTERED WITHOUT APPROVAL. DRAWINGS SHALL BE RETURNED UPON REQUEST.

15.0 SPRINKLER HEADS SHALL BE U.L.C. LISTED AND SHALL BE THE TYPE AND TEMPERATURE RATING SPECIFIED ON THE DRAWINGS AND NFPA 13 2013 ED.

16.0 PROVIDE SPARE SPRINKLER HEADS AND WRENCH IN A METAL CABINET, MOUNTED ON THE WALL NEAR THE MAIN SPRINKLER VALVE HEADER. AMOUNT AS PER N.F.P.A. STANDARD # 13 LATEST OR APPLICABLE EDITION.

17.0 SPRINKLERS OF SUITABLE TEMPERATURE RATING SHALL BE INSTALLED NEAR HEATING EQUIPMENT AS SPECIFIED IN N.F.P.A. STANDARD # 13 LATEST OR APPLICABLE EDITION.

18.0 PROVIDE ALL NECESSARY TRIM REQUIRED FOR ALARM CHECK VALVES TO COMPLY WITH APPLICABLE CODES AND REQUIREMENTS.

19.0 PENDENT SPRINKLERS INSTALLED WHERE SUSPENDED CEILING TILES OR DRYWALL OCCUR ARE TO BE EQUIPPED WITH TWO PIECE ESCUTCHEONS. (WHERE APPLICABLE)

20.0 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF THE FIRE PROTECTION SYSTEMS AND FOR CO-ORDINATION WITH ALL SITE CONDITIONS. BEFORE COMMENCING WORK, EXAMINE THE SITE AND THE EXISTING CONDITIONS AND REPORT IMMEDIATELY TO THE ENGINEER ANY DEFECT OR INTERFERENCE AFFECTING THE COMPLETION OF THE WORK OR THE GUARANTEE OF THIS CONTRACTOR.

21.0 CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.

22.0 PROVIDE FLOW ALARM DEVICES, SUPERVISORY SWITCHES AND PRESSURE SWITCHES WHERE SHOWN ON DRAWINGS. WIRING TO ANNUNCIATOR SHALL BE BY ELECTRICAL CONTRACTOR. PROVIDE NECESSARY SIGNS WHERE REQUIRED BY THE LOCAL FIRE AUTHORITIES.

23.0 PROVIDE SHOP DRAWINGS FOR THE FOLLOWING:
A) - SPRINKLER HEADS
B) - ALARM VALVE AND TRIM
C) - SUPERVISORY DEVICES
D) - HANGERS
E) - FLOW SWITCHES

24.0 A COPY OF N.F.P.A. STANDARD # 25 IS TO BE PROVIDED AND LEFT IN A VISIBLE LOCATION IN THE SPRINKLER ROOM.

25.0 DIMENSIONS AND/OR MEASUREMENTS INDICATED ON THE DRAWINGS ARE TO BE VERIFIED AT SITE AND ANY MAJOR DISCREPANCIES TO BE REPORTED PRIOR TO FABRICATION AND INSTALLATION. (IF APPLICABLE)

26.0 EXACT LOCATION AND ELEVATION OF MAINS TO BE DETERMINED BY CONTRACTOR TO SUIT SITE CONDITIONS.

27.0 CONTRACTOR TO CO-ORDINATE LOCATION OF SPRINKLERS WITH RESPECT TO SURFACE MOUNTED LIGHT FIXTURES AND MAINTAIN MINIMUM CLEARANCE AS REQUIRED BY NFPA 13 TO AVOID ANY OBSTRUCTION TO SPRAY PATTERN OF SPRINKLERS.

28.0 MINIMUM WALL THICKNESS OF SPRINKLER PIPING TO BE EQUIVALENT TO SCHEDULE 10S.

29.0 CONTRACTOR TO PROVIDE HYDRAULIC PLATES. (WE WILL PROVIDE INFO ONLY.)

30.0 SPRINKLERS IN LIGHT HAZARD OCCUPANCIES (ie LOBBY ETC.) TO BE QUICK RESPONSE TYPE.

31.0 CONTRACTOR TO PROVIDE NECESSARY HANGERS AND ASSEMBLY TO COMPLY WITH THE FOLLOWING:
A) UNSUPPORTED LENGTH BETWEEN END SPRINKLER AND LAST HANGER SHALL NOT EXCEED 36 INCHES FOR 1" DIA PIPE, 48" FOR 1¼" DIA PIPE AND 60" FOR 1½" DIA. PIPE OR LARGER. NOTE- WHEN PRESSURE EXCEEDS 100 PSI, REFER TO NFPA STANDARD # 13.
B) THE LENGTH OF AN UNSUPPORTED ARM-OVER TO A SPRINKLER SHALL NOT EXCEED 24".
NOTE: WHEN PRESSURE EXCEEDS 100 PSI, REFER TO NFPA STANDARD # 13

32.0 CONTRACTOR TO PROVIDE ADEQUATE DRAINS AS REQUIRED BY N.F.P.A.13 AND DISCHARGE TO A LOCATION TO SUIT SITE CONDITIONS.

33.0 ELECTRIC FIRE PUMP AND JOCKEY PUMP TO BE INSTALLED IN ACCORDANCE WITH NFPA STANDARD #20 AND N.B.C. AND BE IN COMPLIANCE WITH THE REQUIREMENTS OF LOCAL AUTHORITIES.

34.0 ENGINEER TO WITNESS FIRE PUMP & STANDPIPE TESTS.

35.0 ALL PIPING IN CORRIDOR (INCLUDING FEEDS INTO SUITES) MUST BE STEEL PIPING.

36.0 CONTRACTOR TO INCLUDE FOR AN ADDITIONAL 15O SPRINKLERS FOR BELOW OBSTRUCTIONS ETC.

37.0 CONTRACTOR TO INCLUDE FOR 3 DRUM DRIPS PER DRY SYSTEM.

38.0 ELECTRICAL CONTRACTOR IS RESPONSIBLE TO SUPPLY AND INSTALL ELECTRICAL HEAT TRACING WHERE SHOWN ON DRAWINGS AND WHERE REQUIRED TO PREVENT WATER IN PIPES FROM FREEZING.

39.0 FIRE ALARM CONTRACTOR IS RESPONSIBLE TO CONNECT HEAT TRACING WIRE TO FIRE ALARM SYSTEM.

40.0 MECHANICAL CONTRACTOR IS RESPONSIBLE TO SUPPLY AND INSTALL ALL THE NECESSARY INSULATION WHERE SHOWN ON DRAWINGS AND WHERE REQUIRED TO PREVENT WATER IN PIPES FROM FREEZING.

41.0 MECHANICAL CONTRACTOR IS RESPONSIBLE TO SUPPLY AND INSTALL EXTINGUISHERS WHERE SHOWN ON DRAWINGS AND WHERE REQUIRED.

42.0 MECHANICAL CONTRACTOR IS RESPONSIBLE TO SUPPLY AND INSTALL FIRE WRAP WHERE FIRE RATED ENCLOSURE (AS SHOWN ON DRAWINGS) IS NOT FEASIBLE.

SUPERVISED VALVE SCHEDULE-1

VALVE No.	SERVICE	LOCATION
SV-1	DOUBLE CHECK DETECTOR VALVE INLET	FIRE PUMP ROOM
SV-2	DOUBLE CHECK DETECTOR VALVE OUTLET	FIRE PUMP ROOM
SV-3	DOUBLE CHECK DETECTOR VALVE INLET	FIRE PUMP ROOM
SV-4	DOUBLE CHECK DETECTOR VALVE OUTLET	FIRE PUMP ROOM
SV-5	FIRE MAIN ISOLATION	FIRE PUMP ROOM
SV-6	FIRE PUMP BY-PASS	FIRE PUMP ROOM
SV-7	FIRE PUMP BY-PASS N/O	FIRE PUMP ROOM
SV-8	FIRE PUMP SUCTION N/O	FIRE PUMP ROOM
SV-9	FIRE PUMP DISCHARGE N/O	FIRE PUMP ROOM
SV-10	FIRE PUMP SUCTION N/O	FIRE PUMP ROOM
SV-11	FIRE PUMP DISCHARGE N/O	FIRE PUMP ROOM
SV-12	FIRE PUMP TEST CONNECTION	FIRE PUMP ROOM
SV-13	FIRE PUMP TEST CONNECTION	FIRE PUMP ROOM
SV-14	FHV & SPR. COMBINATION MAIN (HIGH PRESSURE)	FIRE PUMP ROOM
SV-15	FHV & SPR. COMBINATION MAIN (LOW PRESSURE)	FIRE PUMP ROOM
SV-16	DRY SPRINKLER SYSTEM P3	FIRE PUMP ROOM
SV-17	DRY SPRINKLER SYSTEM P2	FIRE PUMP ROOM
SV-18	DRY SPRINKLER SYSTEM P1	FIRE PUMP ROOM
SV-19	HIGH PRESSURE INTER CONNETION	38TH FLOOR
SV-20	FIRE STANDPIPE RISER	P1
SV-21	FIRE STANDPIPE RISER	P1
SV-22	FIRE STANDPIPE RISER	P1
SV-23	FIRE STANDPIPE RISER	P1
SV-24	FIRE STANDPIPE RISER FOR U/G	P1
SV-25	FIRE STANDPIPE RISER FOR U/G	P1
SV-101	PRV STATION IN	FIRE PUMP ROOM
SV-102	PRV STATION IN	FIRE PUMP ROOM
SV-103	PRV STATION BY-PASS	FIRE PUMP ROOM
SV-104	PRV STATION OUT	FIRE PUMP ROOM
SV-105	PRV STATION OUT	FIRE PUMP ROOM
SV-106	PRV STATION BY-PASS	FIRE PUMP ROOM
SV-107	PRV STATION DRAIN	FIRE PUMP ROOM

LOW AIR PRESSURE SWITCH SCHEDULE

VALVE No.	SERVICE	LOCATION
LAPS-1	DRY SPRINKLER SYSTEM ON P1	FIRE PUMP ROOM
LAPS-2	DRY SPRINKLER SYSTEM ON P2	FIRE PUMP ROOM
LAPS-3	DRY SPRINKLER SYSTEM ON P3	FIRE PUMP ROOM

PRESSURE SWITCH SCHEDULE

VALVE No.	SERVICE	LOCATION
PS-1	DRY SPRINKLER SYSTEM ON P1	FIRE PUMP ROOM
PS-2	DRY SPRINKLER SYSTEM ON P2	FIRE PUMP ROOM
PS-3	DRY SPRINKLER SYSTEM ON P3	FIRE PUMP ROOM

SUPERVISED VALVE SCHEDULE-2

VALVE NUMBER	SERVICE	LOCATION
SV-F0	WET SPRINKLER SYSTEM ON GROUND FLOOR	STAIR D, GF
SV-F1	WET SPRINKLER SYSTEM ON UPPER GROUND FLOOR	STAIR D, UGF
SV-F2	WET SPRINKLER SYSTEM ON 2ND FLOOR	STAIR D, 2ND FLOOR
SV-F3	WET SPRINKLER SYSTEM ON 3RD FLOOR	STAIR D, 3RD FLOOR
SV-F4	WET SPRINKLER SYSTEM ON 4TH FLOOR	STAIR D, 4TH FLOOR
SV-F5	WET SPRINKLER SYSTEM ON 5TH FLOOR	STAIR D, 5TH FLOOR
SV-F6	WET SPRINKLER SYSTEM ON 6TH FLOOR	STAIR D, 6TH FLOOR
SV-F7	WET SPRINKLER SYSTEM ON 7TH FLOOR	STAIR D, 7TH FLOOR
SV-F8	WET SPRINKLER SYSTEM ON 8TH FLOOR	STAIR D, 8TH FLOOR
SV-F9	WET SPRINKLER SYSTEM ON 9TH FLOOR	STAIR D, 9TH FLOOR
SV-F10	WET SPRINKLER SYSTEM ON 10TH FLOOR	STAIR D, 10TH FLOOR
SV-F11	WET SPRINKLER SYSTEM ON 11TH FLOOR	STAIR D, 11TH FLOOR
SV-F12	WET SPRINKLER SYSTEM ON 12TH FLOOR	STAIR D, 12TH FLOOR
SV-F13	WET SPRINKLER SYSTEM ON 13TH FLOOR	STAIR D, 13TH FLOOR
SV-F14	WET SPRINKLER SYSTEM ON 14TH FLOOR	STAIR D, 14TH FLOOR
SV-F15	WET SPRINKLER SYSTEM ON 15TH FLOOR	STAIR D, 15TH FLOOR
SV-F16	WET SPRINKLER SYSTEM ON 16TH FLOOR	STAIR D, 16TH FLOOR
SV-F17	WET SPRINKLER SYSTEM ON 17TH FLOOR	STAIR D, 17TH FLOOR
SV-F18	WET SPRINKLER SYSTEM ON 18TH FLOOR	STAIR D, 18TH FLOOR
SV-F19	WET SPRINKLER SYSTEM ON 19TH FLOOR	STAIR D, 19TH FLOOR
SV-F20	WET SPRINKLER SYSTEM ON 20TH FLOOR	STAIR D, 20TH FLOOR
SV-F21	WET SPRINKLER SYSTEM ON 21TH FLOOR	STAIR D, 21TH FLOOR
SV-F22	WET SPRINKLER SYSTEM ON 22TH FLOOR	STAIR D, 22TH FLOOR
SV-F23	WET SPRINKLER SYSTEM ON 23TH FLOOR	STAIR D, 23TH FLOOR
SV-F24	WET SPRINKLER SYSTEM ON 24TH FLOOR	STAIR D, 24TH FLOOR
SV-F25	WET SPRINKLER SYSTEM ON 25TH FLOOR	STAIR D, 25TH FLOOR
SV-F26	WET SPRINKLER SYSTEM ON 26TH FLOOR	STAIR D, 26TH FLOOR
SV-F27	WET SPRINKLER SYSTEM ON 27TH FLOOR	STAIR D, 27TH FLOOR
SV-F28	WET SPRINKLER SYSTEM ON 28TH FLOOR	STAIR D, 28TH FLOOR
SV-F29	WET SPRINKLER SYSTEM ON 29TH FLOOR	STAIR D, 29TH FLOOR
SV-F30	WET SPRINKLER SYSTEM ON 30TH FLOOR	STAIR D, 30TH FLOOR
SV-F31	WET SPRINKLER SYSTEM ON 31TH FLOOR	STAIR D, 31TH FLOOR
SV-F32	WET SPRINKLER SYSTEM ON 32TH FLOOR	STAIR D, 32TH FLOOR
SV-F33	WET SPRINKLER SYSTEM ON 33TH FLOOR	STAIR D, 33TH FLOOR
SV-F34	WET SPRINKLER SYSTEM ON 34TH FLOOR	STAIR D, 34TH FLOOR
SV-F35	WET SPRINKLER SYSTEM ON 35TH FLOOR	STAIR D, 35TH FLOOR
SV-F36	WET SPRINKLER SYSTEM ON 36TH FLOOR	STAIR D, 36TH FLOOR
SV-F37	WET SPRINKLER SYSTEM ON 37TH FLOOR	STAIR D, 37TH FLOOR
SV-F38	WET SPRINKLER SYSTEM ON 38TH FLOOR	STAIR D, 38TH FLOOR
SV-F39	WET SPRINKLER SYSTEM ON AMENITY FLOOR	STAIR D, AMENITY
SV-F40	WET SPRINKLER SYSTEM ON MECH. PENTHOUSE	STAIR D, PENTHOUSE
SV-F41	WET SPRINKLER SYSTEM ON ELEV. MACHINE ROOM	STAIR D, M. ROOM
SV-GC1	WET SPRINKLER RISER IN GARBAGE CHUTE (LP)	P1-GARBAGE ROOM
SV-GC2	WET SPRINKLER RISER IN GARBAGE CHUTE (HP)	FLOOR 38TH
SV-WS	WINDOW SPRINKLER	GROUND FLOOR

FLOW SWITCH SCHEDULE-1

VALVE NUMBER	SERVICE	LOCATION
FS-F0	WET SPRINKLER SYSTEM ON GROUND FLOOR	STAIR D, GF
FS-F1	WET SPRINKLER SYSTEM ON UPPER GROUND FLOOR	STAIR D, UGF
FS-F2	WET SPRINKLER SYSTEM ON 2ND FLOOR	STAIR D, 2ND FLOOR
FS-F3	WET SPRINKLER SYSTEM ON 3RD FLOOR	STAIR D, 3RD FLOOR
FS-F4	WET SPRINKLER SYSTEM ON 4TH FLOOR	STAIR D, 4TH FLOOR
FS-F5	WET SPRINKLER SYSTEM ON 5TH FLOOR	STAIR D, 5TH FLOOR
FS-F6	WET SPRINKLER SYSTEM ON 6TH FLOOR	STAIR D, 6TH FLOOR
FS-F7	WET SPRINKLER SYSTEM ON 7TH FLOOR	STAIR D, 7TH FLOOR
FS-F8	WET SPRINKLER SYSTEM ON 8TH FLOOR	STAIR D, 8TH FLOOR
FS-F9	WET SPRINKLER SYSTEM ON 9TH FLOOR	STAIR D, 9TH FLOOR
FS-F10	WET SPRINKLER SYSTEM ON 10TH FLOOR	STAIR D, 10TH FLOOR
FS-F11	WET SPRINKLER SYSTEM ON 11TH FLOOR	STAIR D, 11TH FLOOR
FS-F12	WET SPRINKLER SYSTEM ON 12TH FLOOR	STAIR D, 12TH FLOOR
FS-F13	WET SPRINKLER SYSTEM ON 13TH FLOOR	STAIR D, 13TH FLOOR
FS-F14	WET SPRINKLER SYSTEM ON 14TH FLOOR	STAIR D, 14TH FLOOR
FS-F15	WET SPRINKLER SYSTEM ON 15TH FLOOR	STAIR D, 15TH FLOOR
FS-F16	WET SPRINKLER SYSTEM ON 16TH FLOOR	STAIR D, 16TH FLOOR
FS-F17	WET SPRINKLER SYSTEM ON 17TH FLOOR	STAIR D, 17TH FLOOR
FS-F18	WET SPRINKLER SYSTEM ON 18TH FLOOR	STAIR D, 18TH FLOOR
FS-F19	WET SPRINKLER SYSTEM ON 19TH FLOOR	STAIR D, 19TH FLOOR
FS-F20	WET SPRINKLER SYSTEM ON 20TH FLOOR	STAIR D, 20TH FLOOR
FS-F21	WET SPRINKLER SYSTEM ON 21TH FLOOR	STAIR D, 21TH FLOOR
FS-F22	WET SPRINKLER SYSTEM ON 22TH FLOOR	STAIR D, 22TH FLOOR
FS-F23	WET SPRINKLER SYSTEM ON 23TH FLOOR	STAIR D, 23TH FLOOR
FS-F24	WET SPRINKLER SYSTEM ON 24TH FLOOR	STAIR D, 24TH FLOOR
FS-F25	WET SPRINKLER SYSTEM ON 25TH FLOOR	STAIR D, 25TH FLOOR
FS-F26	WET SPRINKLER SYSTEM ON 26TH FLOOR	STAIR D, 26TH FLOOR
FS-F27	WET SPRINKLER SYSTEM ON 27TH FLOOR	STAIR D, 27TH FLOOR
FS-F28	WET SPRINKLER SYSTEM ON 28TH FLOOR	STAIR D, 28TH FLOOR
FS-F29	WET SPRINKLER SYSTEM ON 29TH FLOOR	STAIR D, 29TH FLOOR
FS-F30	WET SPRINKLER SYSTEM ON 30TH FLOOR	STAIR D, 30TH FLOOR
FS-F31	WET SPRINKLER SYSTEM ON 31TH FLOOR	STAIR D, 31TH FLOOR
FS-F32	WET SPRINKLER SYSTEM ON 32TH FLOOR	STAIR D, 32TH FLOOR
FS-F33	WET SPRINKLER SYSTEM ON 33TH FLOOR	STAIR D, 33TH FLOOR
FS-F34	WET SPRINKLER SYSTEM ON 34TH FLOOR	STAIR D, 34TH FLOOR
FS-F35	WET SPRINKLER SYSTEM ON 35TH FLOOR	STAIR D, 35TH FLOOR
FS-F36	WET SPRINKLER SYSTEM ON 36TH FLOOR	STAIR D, 36TH FLOOR
FS-F37	WET SPRINKLER SYSTEM ON 37TH FLOOR	STAIR D, 37TH FLOOR
FS-F38	WET SPRINKLER SYSTEM ON 38TH FLOOR	STAIR D, 38TH FLOOR
FS-F39	WET SPRINKLER SYSTEM ON AMENITY FLOOR	STAIR D, AMENITY
FS-F40	WET SPRINKLER SYSTEM ON MECH. PENTHOUSE	STAIR D, PENTHOUSE
FS-F41	WET SPRINKLER SYSTEM ON ELEV. MACHINE ROOM	STAIR D, M. ROOM
FS-1	SPRINKLER RISER IN PUMP ROOM (HIGH PRESSURE)	FIRE PUMP
FS-2	SPRINKLER RISER IN PUMP ROOM (LOW PRESSURE)	FIRE PUMP
FS-GC1	WET SPRINKLER RISER IN GARBAGE CHUTE (LP)	P1-GARBAGE ROOM
FS-GC2	WET SPRINKLER RISER IN GARBAGE CHUTE (HP)	FLOOR 38TH
FS-WS	WINDOW SPRINKLER	GROUND FLOOR

MATERIAL NOTES:

LOCATION	MATERIAL
SPRINKLER RISERS	STEEL PIPE SCHEDULE 40
PARKING GARAGE	STEEL PIPE SCHEDULE 10
LEVELS CORRIDORS	CPVC PIPE
RESIDENTIAL UNITS	CPVC PIPE
STANDPIPE (ABOVE 175 PSI)	STEEL PIPE SCHEDULE 40
STANDPIPE (BELOW 175 PSI)	STEEL PIPE SCHEDULE 10
FITTING (MAINS)	UL LISTED GROOVED FITTINGS
FITTING (LINES)	UL LISTED GROOVED FITTINGS
HANGER (MAINS)	AS PER NFPA 13 REQUIREMENTS
HANGER (LINES)	AS PER NFPA 13 REQUIREMENTS

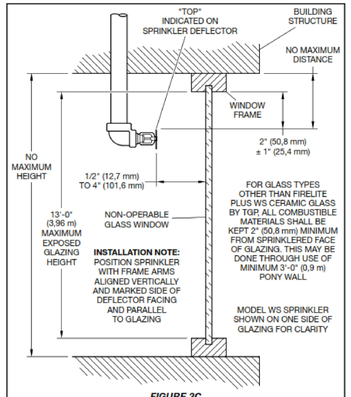


FIGURE 3C
MODEL WS HORIZONTAL SIDEWALL SPRINKLER
TYPICAL INSTALLATION

NO	DATE	DESCRIPTION
X	XX XX/XXX	XXXXXXXXXXXXXX

ISSUED/REVISION RECORD

PROJECT

PROPOSED MIXED-USED DEVELOPMENT

ADDRESS:
775-783 Vaughan Rd & 670-680 Northcliffe Blvd, York, ON

DRAWING TITLE

FIRE PROTECTION
FIRE PUMP SPECIFICATIONS,
GENERAL NOTES &
VALVE SCHEDULE

LIFELINE FIRE PROTECTION
www.lifelinefireprotection.com

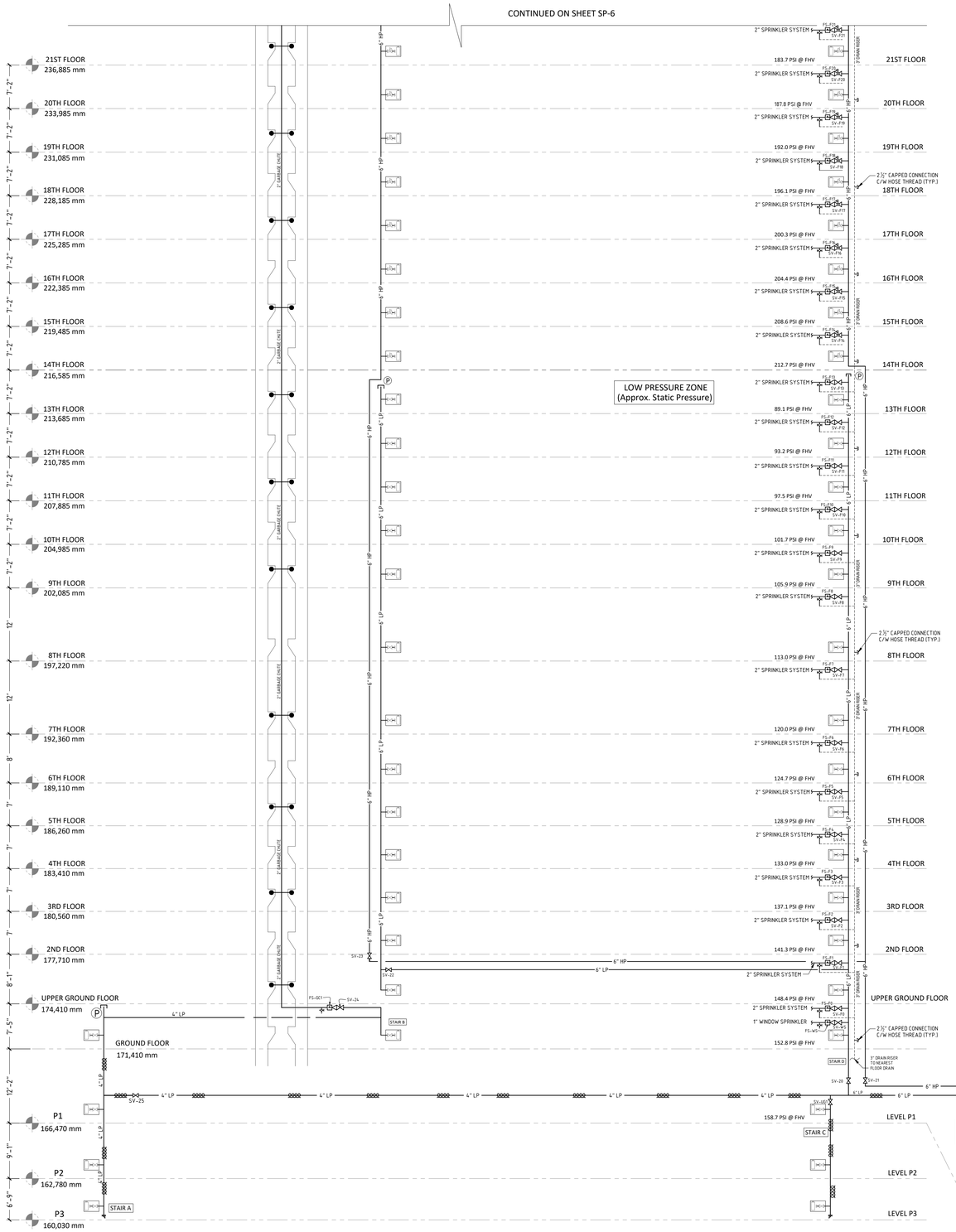
50 Casmir Court, Concord, ON
L4K 4J5
(416)850-9477

PROJECT NORTH TRUE NORTH

22-0007
PROJECT

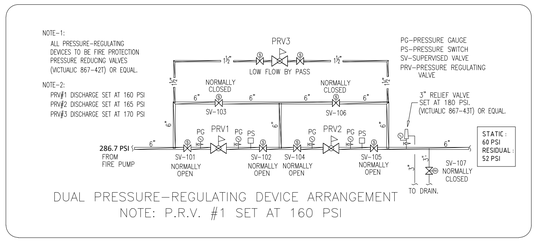
SK RJ
BY REVIEWED

SP-04

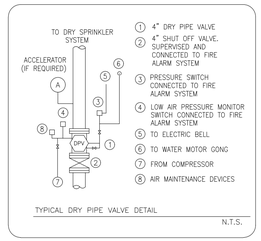


PUMPS SCHEDULE – FIRE PROTECTION							
PUMP NO.	GPM	HEAD	HP	V./~/A	RPM	MAKE	NOTE
FIRE PUMP–1 (IN DUTY)	750 GPM	225 PSI	200 HP	575/3/60	3560 RPM	AC FIRE PUMP OR SIMILAR	CONTROLLER TO BE LEAD–STANDBY DUAL FIRE PUMP CONTROLLER. FULL SERVICE REDUCED VOLTAGE AUTOTRANSFORMER C/W TRANSFER SWITCH.
FIRE PUMP–2 (STANDBY)	750 GPM	225 PSI	200 HP	575/3/60	3560 RPM	AC FIRE PUMP OR SIMILAR	
JOCKEY PUMP	10 GPM	230 PSI	3 HP	575/3/60	3600 RPM	AC FIRE PUMP OR SIMILAR	

NOTE:
1. ELECTRICAL SPECIFICATIONS FOR FIRE PUMP TO BE CONFIRMED BY ELECTRICAL CONSULTANT.
2. JOCKEY PUMP TO START AT 10 PSI LESS THAN SHUT OFF PRESSURE.
3. FIRE PUMP TO START AT 20 PSI LESS THAN JOCKEY PUMP SHUT OFF PRESSURE.
4. FIRE PUMP SIZE AS PER MECHANICAL DRAWING.

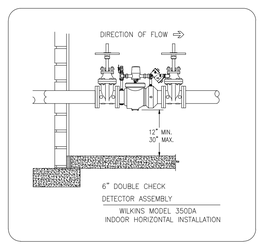


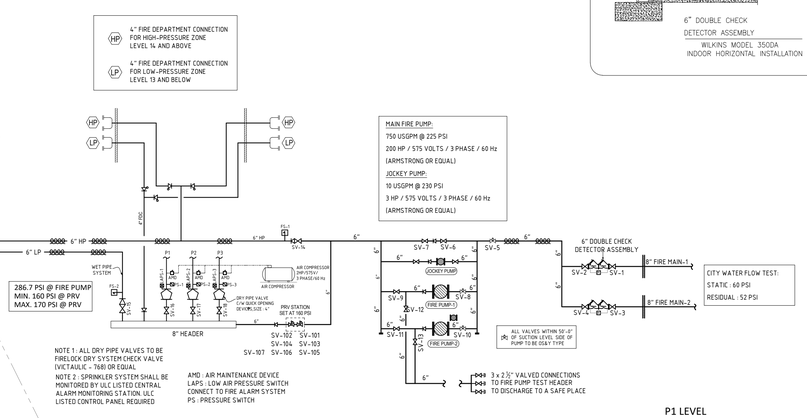
DUAL PRESSURE–REGULATING DEVICE ARRANGEMENT
NOTE: P.R.V. #1 SET AT 160 PSI



TYPICAL DRY PIPE VALVE DETAIL
N.T.S.

REFERENCE TO ALTERNATIVE SOLUTION REPORT :
LOCATE 65 mm DIA FIRE HOSE VALE (FHV) CONNECTIONS WITHIN THE EXIT STAIRS ENCLOSURES. CLASS 1 STANDPIPE SYSTEM. PORTABLE FIRE EXTINGUISHERS PROVIDED THROUGHOUT THE FLOORS.





NOTE 1 : ALL DRY PIPE VALVES TO BE FIRELOCK DRY SYSTEM CHECK VALVE (VICTAULIC – 768) OR EQUAL
NOTE 2 : SPRINKLER SYSTEM SHALL BE MONITORED BY ULC LISTED CENTRAL ALARM MONITORING STATION. ULC LISTED CONTROL PANEL REQUIRED

AMD : AIR MAINTENANCE DEVICE
LAPS : LOW AIR PRESSURE SWITCH CONNECT TO FIRE ALARM SYSTEM
PS : PRESSURE SWITCH

NO	DATE	DESCRIPTION
X	XXX XX/XXXX	XXXXXXXXXXXXXXX

ISSUED/REVISION RECORD

PROJECT

PROPOSED MIXED-USED DEVELOPMENT

ADDRESS:
775-783 Vaughan Rd & 670-680 Northcliffe Blvd, York, ON

DRAWING TITLE

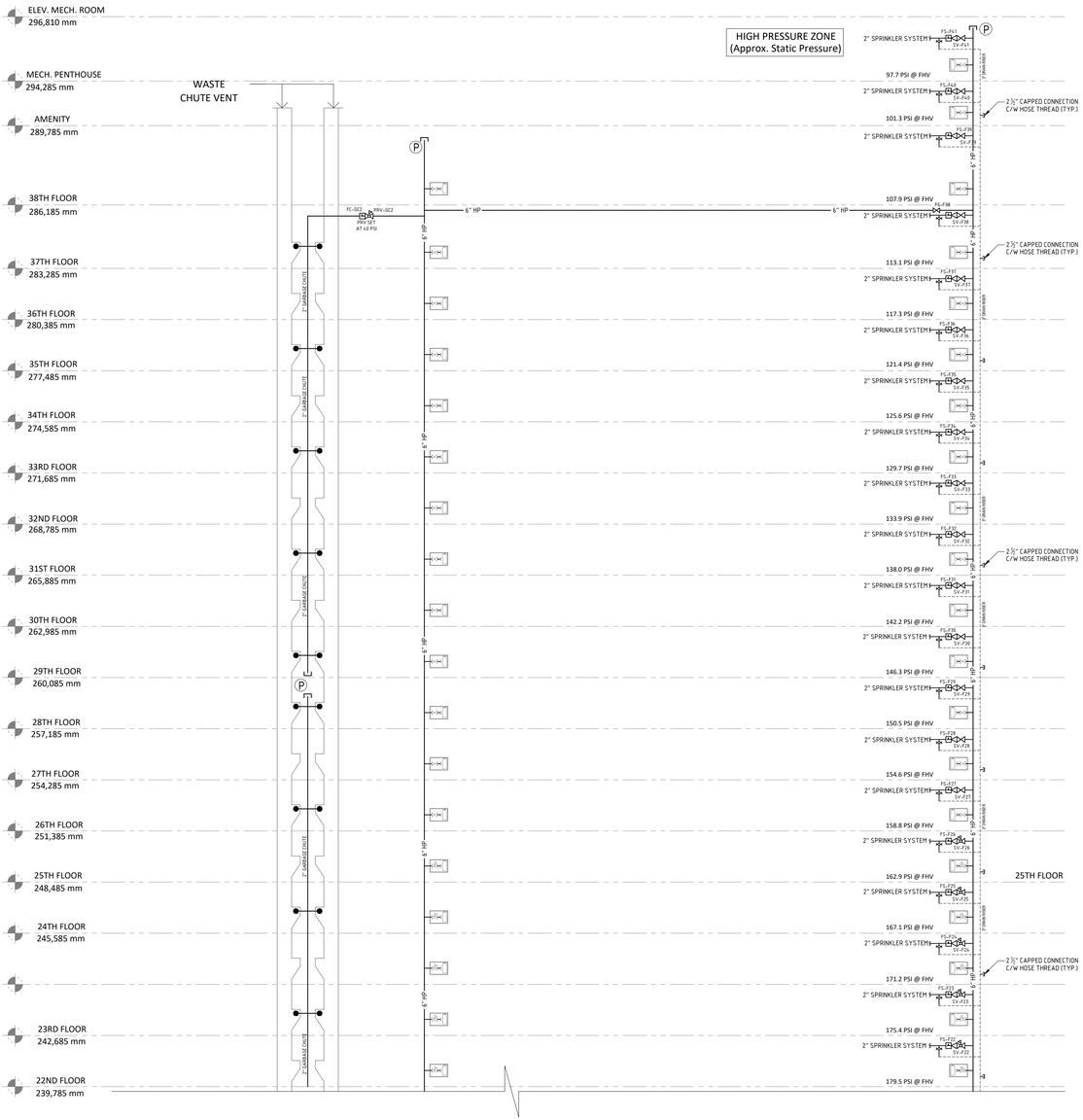
FIRE PROTECTION RISER SCHEMATIC & DETAILS

LIFELINE FIRE PROTECTION
www.lifelinefireprotection.com
50 Casmir Court, Concord, ON
L4K 4J5
(416)850–9477

PROJECT NORTH TRUE NORTH

22-0007
PROJECT
SK RJ
BY REVIEWED

SP-05



NO	DATE	DESCRIPTION
X	XXX XX/XXXX	XXXXXXXXXXXXXXXX

ISSUED/REVISION RECORD

PROJECT

PROPOSED MIXED-USED DEVELOPMENT

ADDRESS:
775-783 Vaughan Rd & 670-680
Northcliffe Blvd, York, ON

DRAWING TITLE

FIRE PROTECTION RISER
SCHEMATIC & DETAILS
(CONT...)

LIFELINE FIRE PROTECTION
www.lifelinefireprotection.com

50 Casmir Court, Concord, ON
L4K 4J5
(416)850-9477

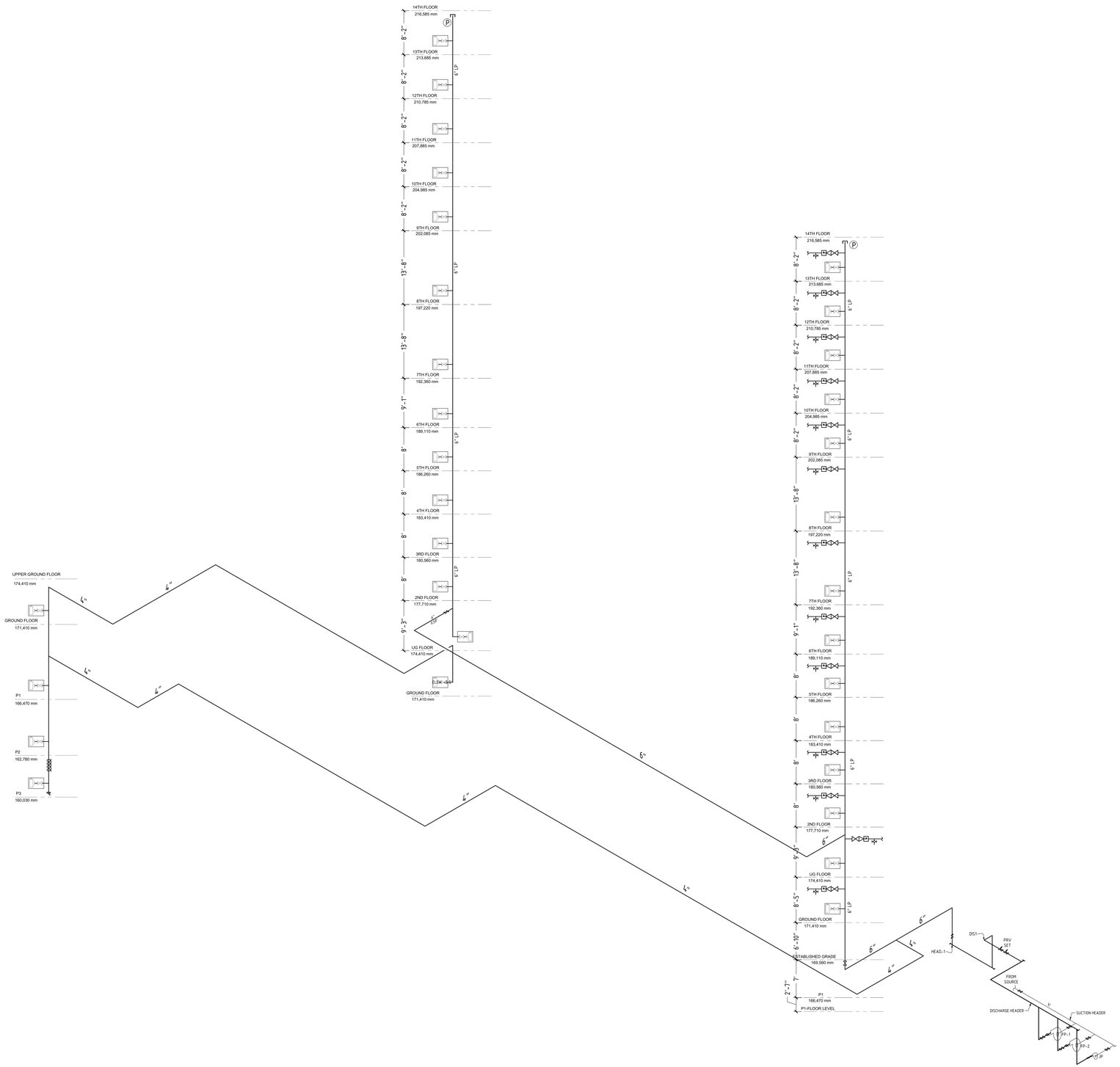
PROJECT NORTH
TRUE NORTH

22-0007
PROJECT

SK
BY

RJ
REVIEWED

SP-06



NO	DATE	DESCRIPTION
X	XXX XX/XXXX	XXXXXXXXXXXXXXXX

ISSUED/REVISION RECORD

PROJECT

PROPOSED MIXED-USED DEVELOPMENT

ADDRESS:
775-783 Vaughan Rd & 670-680
Northcliffe Blvd, York, ON

DRAWING TITLE

FIRE PROTECTION RISER
ISOMETRIC DIAGRAM
LOW PRESSURE ZONE

LIFELINE FIRE PROTECTION
www.lifelinefireprotection.com

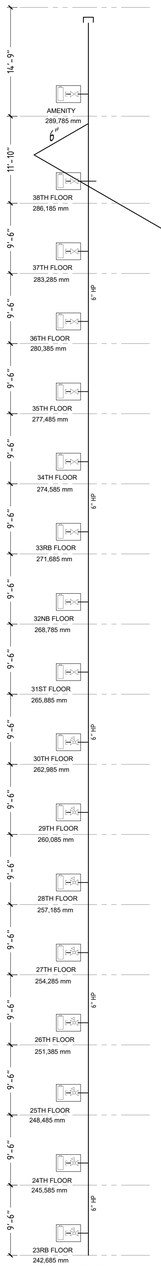
50 Casmir Court, Concord, ON
L4K 4J5
(416)850-9477

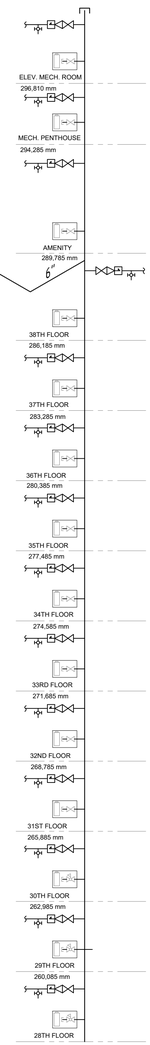
PROJECT NORTH: TRUE NORTH

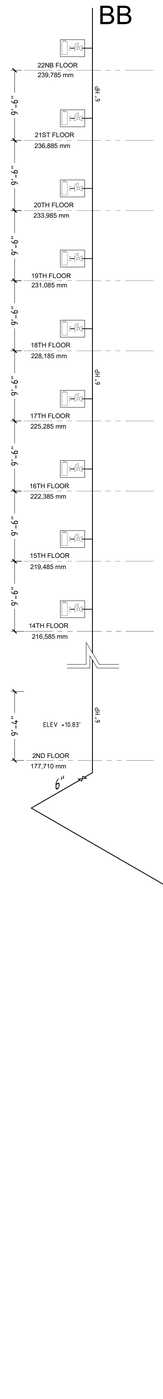
22-0007
PROJECT

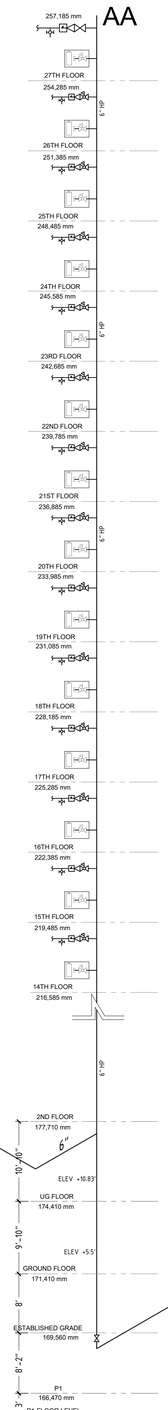
SK BY
RJ REVIEWED

SP-07









NO	DATE	DESCRIPTION
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ISSUED/REVISION RECORD

PROJECT

PROPOSED MIXED-USED DEVELOPMENT

ADDRESS:
775-783 Vaughan Rd & 670-680
Northcliffe Blvd, York, ON

DRAWING TITLE

FIRE PROTECTION RISER
ISOMETRIC DIAGRAM
HIGH PRESSURE ZONE

LIFELINE FIRE PROTECTION
www.lifelinefireprotection.com

50 Cosmir Court, Concord, ON
L4K 4J5

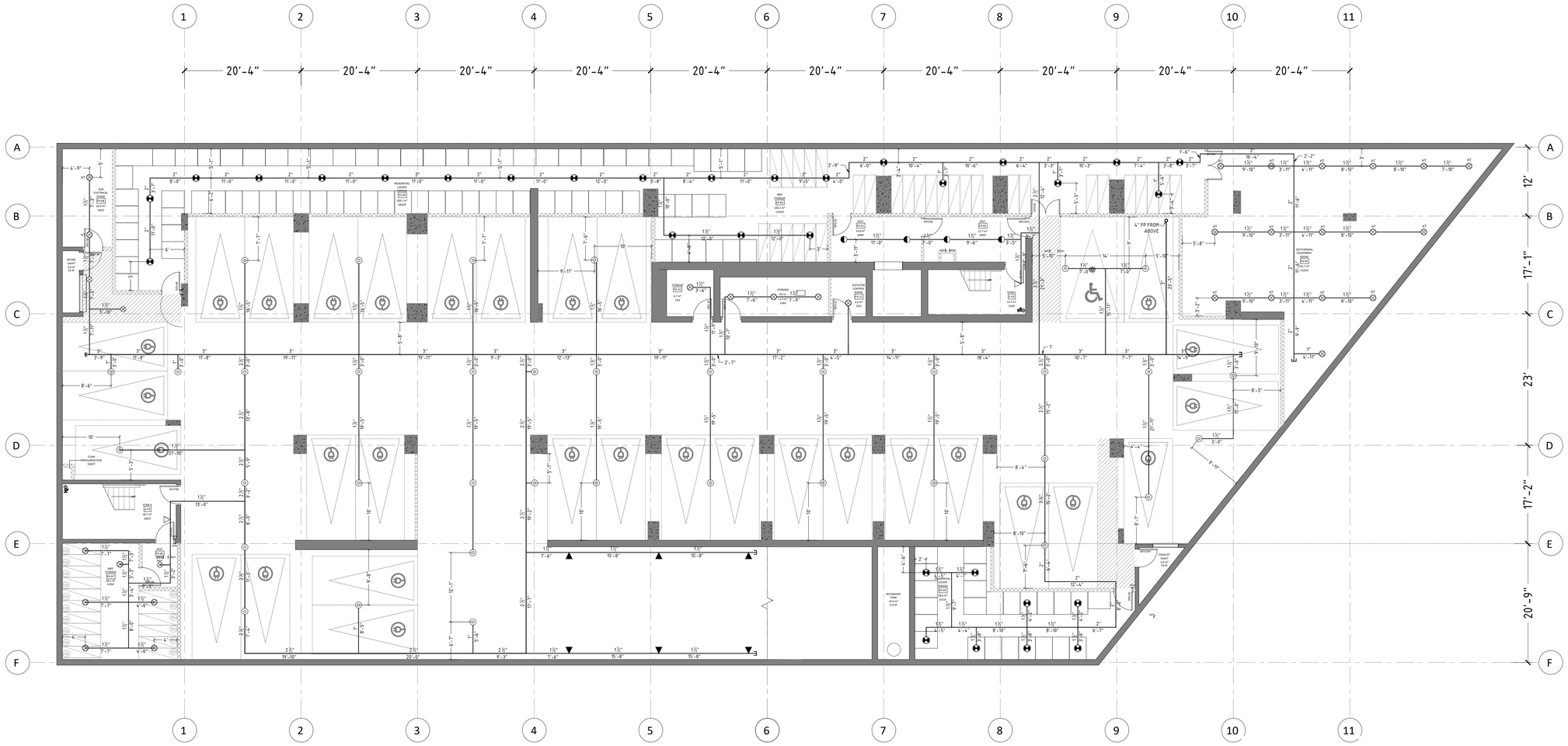
(416)850-9477

PROJECT NORTH: TRUE NORTH

22-0007
PROJECT

SK BY | RJ REVIEWED

SP-08



X	XXX XX/XXX	XXXXXXXXXXXXXXX
NO	DATE	DESCRIPTION

ISSUED/REVISION RECORD

SPRINKLER HEAD LEGEND

C/W GUARD

S/R=STANDARD RESPONSE
S/C=STANDARD COVERAGE

Q/R=QUICK RESPONSE
E/C=EXTENDED COVERAGE

	THREAD SIZE	K-FACTOR	TEMP RATING	STYLE(MODEL)	RESPONSE
	1/2"	14	155°F	EXTENDED COVERAGE UPRIGHT	S/R
	1/2"	5.6	165°F	UPRIGHT S/C	S/R
	1/2"	5.6	165°F	DRY UPRIGHT SPRINKLER HEAD	Q/R
	1/2"	5.6	165°F	STANDARD COVERAGE UPRIGHT	Q/R
DS	1/2"	5.6	212°F	STANDARD COVERAGE UPRIGHT	Q/R
	1"	5.6	155°F	FULLY CONCEALED DRY PENDENT S/C	Q/R
	1"	5.6	165°F	DRY PENDENT S/C	Q/R
	1/2"	11.2	200°F	EXTENDED COVERAGE SIDEWALL	S/R
	1/2"	5.6	155°F	WINDOW SPRINKLER	Q/R
	1/2"	5.6	165°F	STANDARD COVERAGE SIDEWALL	Q/R
	1/2"	5.8	200°F	RESIDENTIAL FULLY CONCEALED PENDENT	Q/R
	1/2"	5.8	200°F	RESIDENTIAL FULLY CONCEALED SIDEWALL	Q/R
	1/2"	5.6	165°F	CONCEALED PENDENT S/C	Q/R
	1/2"	5.6	212°F	RESIDENTIAL FULLY CONCEALED PENDENT S/C	Q/R
	1/2"	8.0	286°F	UPRIGHT IN LOCKER ROOM S/C	S/R
	2½" STANDARD FIRE HOSE VALVE C/W THREADED CAP IN STAIRWELL				
FE 20LB	2½" FIRE HOSE VALVE IN CABINET C/W FIRE EXTINGUISHER				

PROJECT

PROPOSED MIXED-USED DEVELOPMENT

ADDRESS:
775-783 Vaughan Rd & 670-680
Northcliffe Blvd, York, ON

DRAWING TITLE

UNDER GROUND PARKING LEVEL
P3- FIRE PROTECTION PLAN

LIFELINE FIRE PROTECTION
www.lifelinefireprotection.com

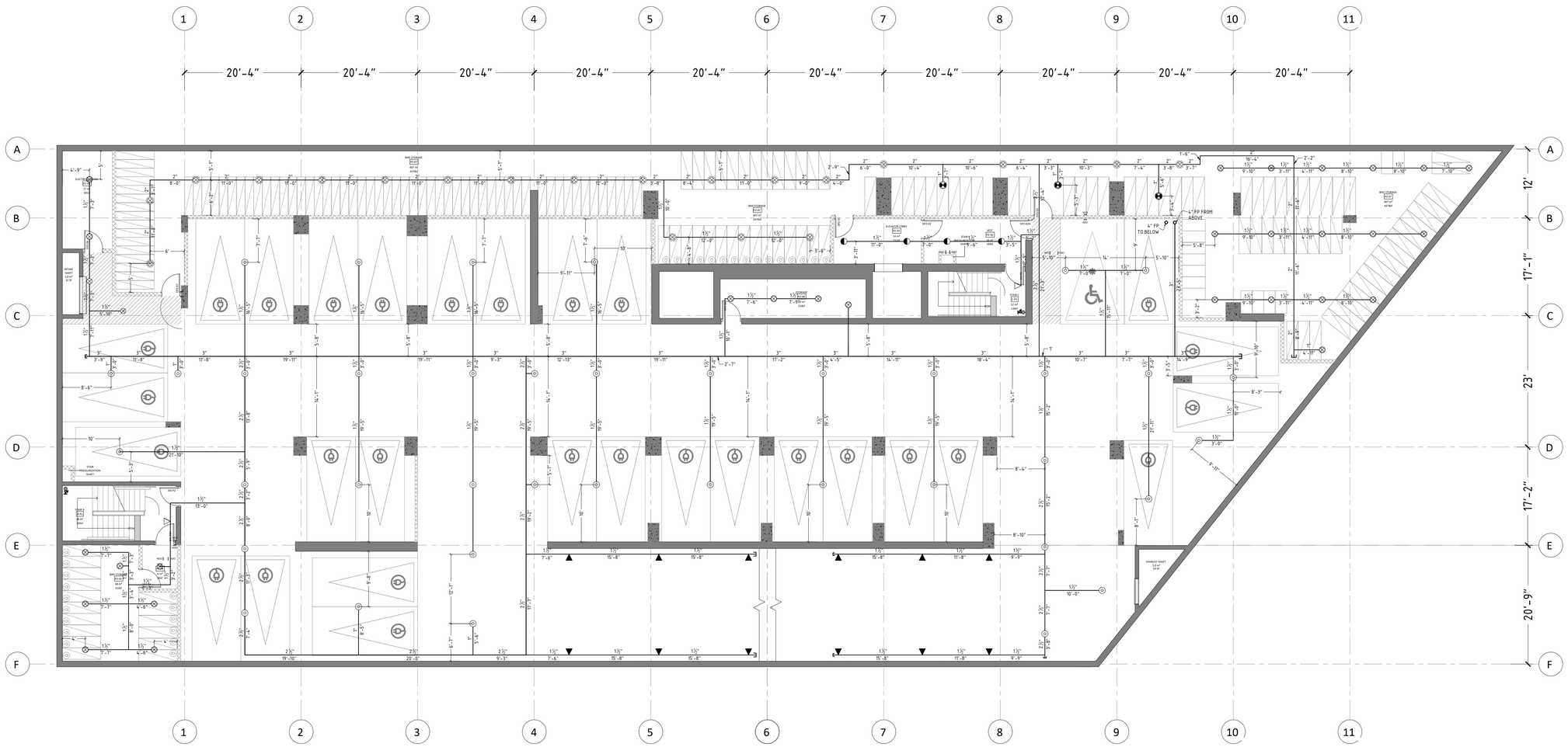
50 Casmir Court, Concord, ON
L4K 4J5
(416)850-9477

PROJECT NORTH
TRUE NORTH

22-0007
PROJECT

SK	RJ
BY	REVIEWED

SP-09



NO	DATE	DESCRIPTION
X	XX XX/XXX	XXXXXXXXXXXXXXX

ISSUED/REVISION RECORD

SPRINKLER HEAD LEGEND

C/W GUARD

S/R=STANDARD RESPONSE
S/C=STANDARD COVERAGE

Q/R=QUICK RESPONSE
E/C=EXTENDED COVERAGE

	THREAD SIZE	K-FACTOR	TEMP RATING	STYLE(MODEL)	RESPONSE
	1/2"	14	155°F	EXTENDED COVERAGE UPRIGHT	S/R
	1/2"	5.6	165°F	UPRIGHT S/C	S/R
	1/2"	5.6	165°F	DRY UPRIGHT SPRINKLER HEAD	Q/R
	1/2"	5.6	165°F	STANDARD COVERAGE UPRIGHT	Q/R
	1/2"	5.6	212°F	STANDARD COVERAGE UPRIGHT	Q/R
	1"	5.6	155°F	FULLY CONCEALED DRY PENDENT S/C	Q/R
	1"	5.6	165°F	DRY PENDENT S/C	Q/R
	1/2"	11.2	200°F	EXTENDED COVERAGE SIDEWALL	S/R
	1/2"	5.6	155°F	WINDOW SPRINKLER	Q/R
	1/2"	5.6	165°F	STANDARD COVERAGE SIDEWALL	Q/R
	1/2"	5.8	200°F	RESIDENTIAL FULLY CONCEALED PENDENT	Q/R
	1/2"	5.8	200°F	RESIDENTIAL FULLY CONCEALED SIDEWALL	Q/R
	1/2"	5.6	165°F	CONCEALED PENDENT S/C	Q/R
	1/2"	5.6	212°F	RESIDENTIAL FULLY CONCEALED PENDENT S/C	Q/R
	1/2"	8.0	286°F	UPRIGHT IN LOCKER ROOM S/C	S/R
	2½" STANDARD FIRE HOSE VALVE C/W THREADED CAP IN STAIRWELL				
	2½" FIRE HOSE VALVE IN CABINET C/W FIRE EXTINGUISHER				

REFERENCE TO ALTERNATIVE SOLUTION REPORT :

LOCATE 65 mm DIA FIRE HOSE VALE (FHV) CONNECTIONS WITHIN THE EXIT STAIRS ENCLOSURES. CLASS 1 STANDPIPE SYSTEM. PORTABLE FIRE EXTINGUISHERS PROVIDED THROUGHOUT THE FLOORS.

PROJECT

PROPOSED MIXED-USED DEVELOPMENT

ADDRESS:
775-783 Vaughan Rd & 670-680 Northcliffe Blvd, York, ON

DRAWING TITLE

UNDER GROUND PARKING LEVEL
P2- FIRE PROTECTION PLAN

LIFELINE FIRE PROTECTION
www.lifelinefireprotection.com

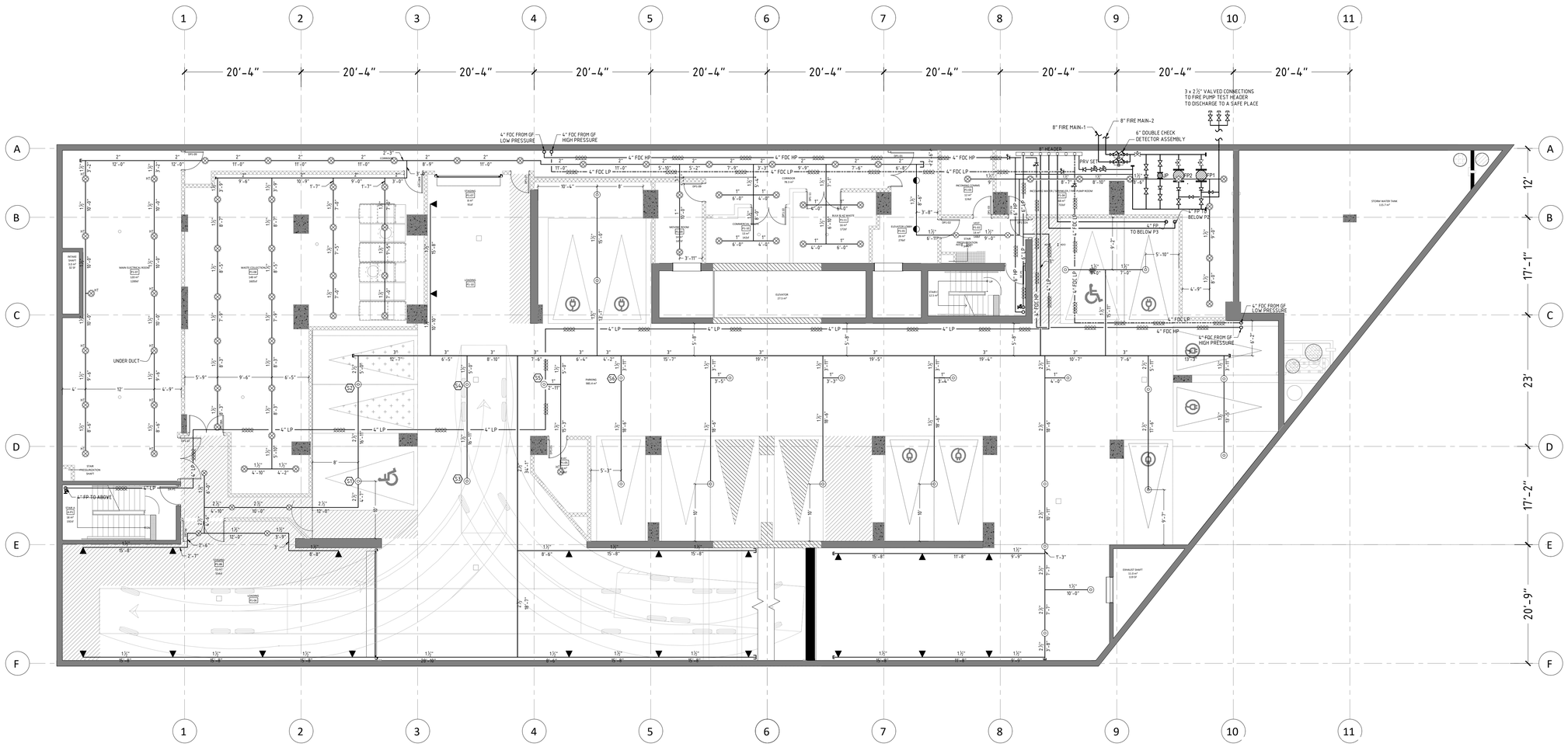
50 Casmir Court, Concord, ON
L4K 4J5
(416)850-9477

PROJECT NORTH
TRUE NORTH

22-0007
PROJECT

SK BY
RJ REVIEWED

SP-10



X	XXX XX/XXX	XXXXXXXXXXXXXXX
NO	DATE	DESCRIPTION

ISSUED/REVISION RECORD

SPRINKLER HEAD LEGEND

C/W GUARD

S/R=STANDARD RESPONSE
S/C=STANDARD COVERAGE

Q/R=QUICK RESPONSE
E/C=EXTENDED COVERAGE

	THREAD SIZE	K-FACTOR	TEMP RATING	STYLE(MODEL)	RESPONSE
	½"	14	155°F	EXTENDED COVERAGE UPRIGHT	S/R
	½"	5.6	165°F	UPRIGHT S/C	S/R
	½"	5.6	165°F	DRY UPRIGHT SPRINKLER HEAD	Q/R
	½"	5.6	165°F	STANDARD COVERAGE UPRIGHT	Q/R
	½"	5.6	212°F	STANDARD COVERAGE UPRIGHT	Q/R
	1"	5.6	155°F	FULLY CONCEALED DRY PENDENT S/C	Q/R
	1"	5.6	165°F	DRY PENDENT S/C	Q/R
	½"	11.2	200°F	EXTENDED COVERAGE SIDEWALL	S/R
	½"	5.6	155°F	WINDOW SPRINKLER	Q/R
	½"	5.6	165°F	STANDARD COVERAGE SIDEWALL	Q/R
	½"	5.8	200°F	RESIDENTIAL FULLY CONCEALED PENDENT	Q/R
	½"	5.8	200°F	RESIDENTIAL FULLY CONCEALED SIDEWALL	Q/R
	½"	5.6	165°F	CONCEALED PENDENT S/C	Q/R
	½"	5.6	212°F	RESIDENTIAL FULLY CONCEALED PENDENT S/C	Q/R
	¾"	8.0	286°F	UPRIGHT IN LOCKER ROOM S/C	S/R
	2½" STANDARD FIRE HOSE VALVE C/W THREADED CAP IN STAIRWELL				
	2½" FIRE HOSE VALVE IN CABINET C/W FIRE EXTINGUISHER				

REFERENCE TO ALTERNATIVE SOLUTION REPORT :
LOCATE 65 mm DIA FIRE HOSE VALE (FHV) CONNECTIONS WITHIN THE EXIT STAIRS ENCLOSURES. CLASS 1 STANDPIPE SYSTEM. PORTABLE FIRE EXTINGUISHERS PROVIDED THROUGHOUT THE FLOORS.

PROJECT

PROPOSED MIXED-USED DEVELOPMENT

ADDRESS:
775-783 Vaughan Rd & 670-680 Northcliffe Blvd, York, ON

DRAWING TITLE

UNDER GROUND PARKING LEVEL
P1- FIRE PROTECTION PLAN

LIFELINE FIRE PROTECTION
www.lifelinefireprotection.com

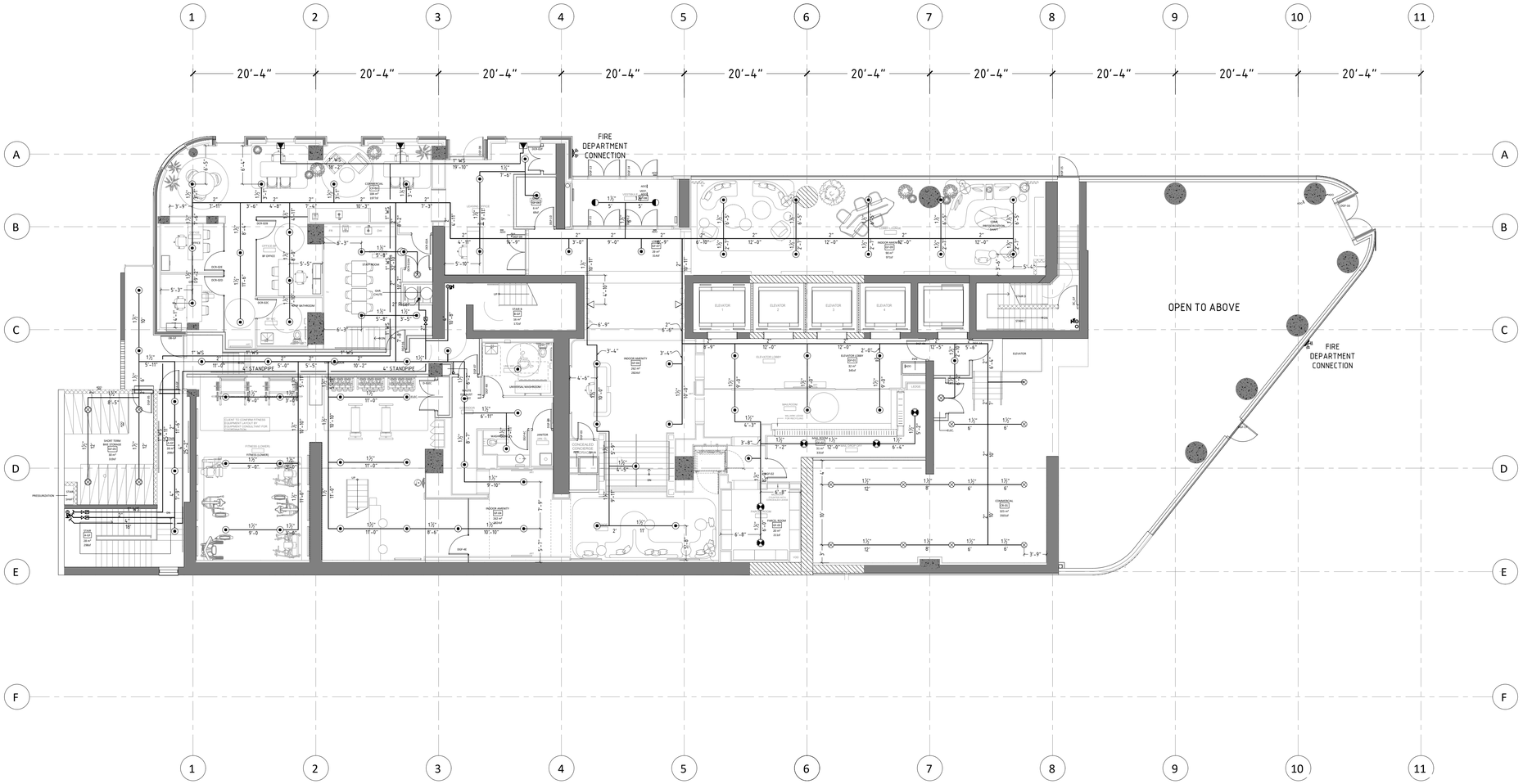
50 Casmir Court, Concord, ON
L4K 4J5
(416)850-9477

PROJECT NORTH
TRUE NORTH

22-0007
PROJECT

SK | RJ
BY | REVIEWED

SP-11



NO	DATE	DESCRIPTION
X	XXX XX/XXX	XXXXXXXXXXXXXXXX

ISSUED/REVISION RECORD

SPRINKLER HEAD LEGEND

C/W GUARD

S/R=STANDARD RESPONSE
S/C=STANDARD COVERAGE

Q/R=QUICK RESPONSE
E/C=EXTENDED COVERAGE

	THREAD SIZE	K-FACTOR	TEMP RATING	STYLE(MODEL)	RESPONSE
	X"	14	155°F	EXTENDED COVERAGE UPRIGHT	S/R
	X"	5.6	165°F	UPRIGHT S/C	S/R
	X"	5.6	165°F	DRY UPRIGHT SPRINKLER HEAD	Q/R
	X"	5.6	165°F	STANDARD COVERAGE UPRIGHT	Q/R
	X"	5.6	212°F	STANDARD COVERAGE UPRIGHT	Q/R
	1"	5.6	155°F	FULLY CONCEALED DRY PENDENT S/C	Q/R
	1"	5.6	165°F	DRY PENDENT S/C	Q/R
	X"	11.2	200°F	EXTENDED COVERAGE SIDEWALL	S/R
	X"	5.6	155°F	WINDOW SPRINKLER	Q/R
	X"	5.6	165°F	STANDARD COVERAGE SIDEWALL	Q/R
	X"	5.8	200°F	RESIDENTIAL FULLY CONCEALED PENDENT	Q/R
	X"	5.8	200°F	RESIDENTIAL FULLY CONCEALED SIDEWALL	Q/R
	X"	5.6	165°F	CONCEALED PENDENT S/C	Q/R
	X"	5.6	212°F	RESIDENTIAL FULLY CONCEALED PENDENT S/C	Q/R
	X"	8.0	286°F	UPRIGHT IN LOCKER ROOM S/C	S/R
	2½" STANDARD FIRE HOSE VALVE C/W THREADED CAP IN STAIRWELL				
FHC	2½" FIRE HOSE VALVE IN CABINET C/W FIRE EXTINGUISHER				

REFERENCE TO ALTERNATIVE SOLUTION REPORT :
LOCATE 65 mm DIA FIRE HOSE VALE (FHV) CONNECTIONS WITHIN THE EXIT STAIRS ENCLOSURES. CLASS 1 STANDPIPE SYSTEM. PORTABLE FIRE EXTINGUISHERS PROVIDED THROUGHOUT THE FLOORS.

PROJECT

PROPOSED MIXED-USED DEVELOPMENT

ADDRESS:
775-783 Vaughan Rd & 670-680 Northcliffe Blvd, York, ON

DRAWING TITLE

GROUND FLOOR

FIRE PROTECTION PLAN

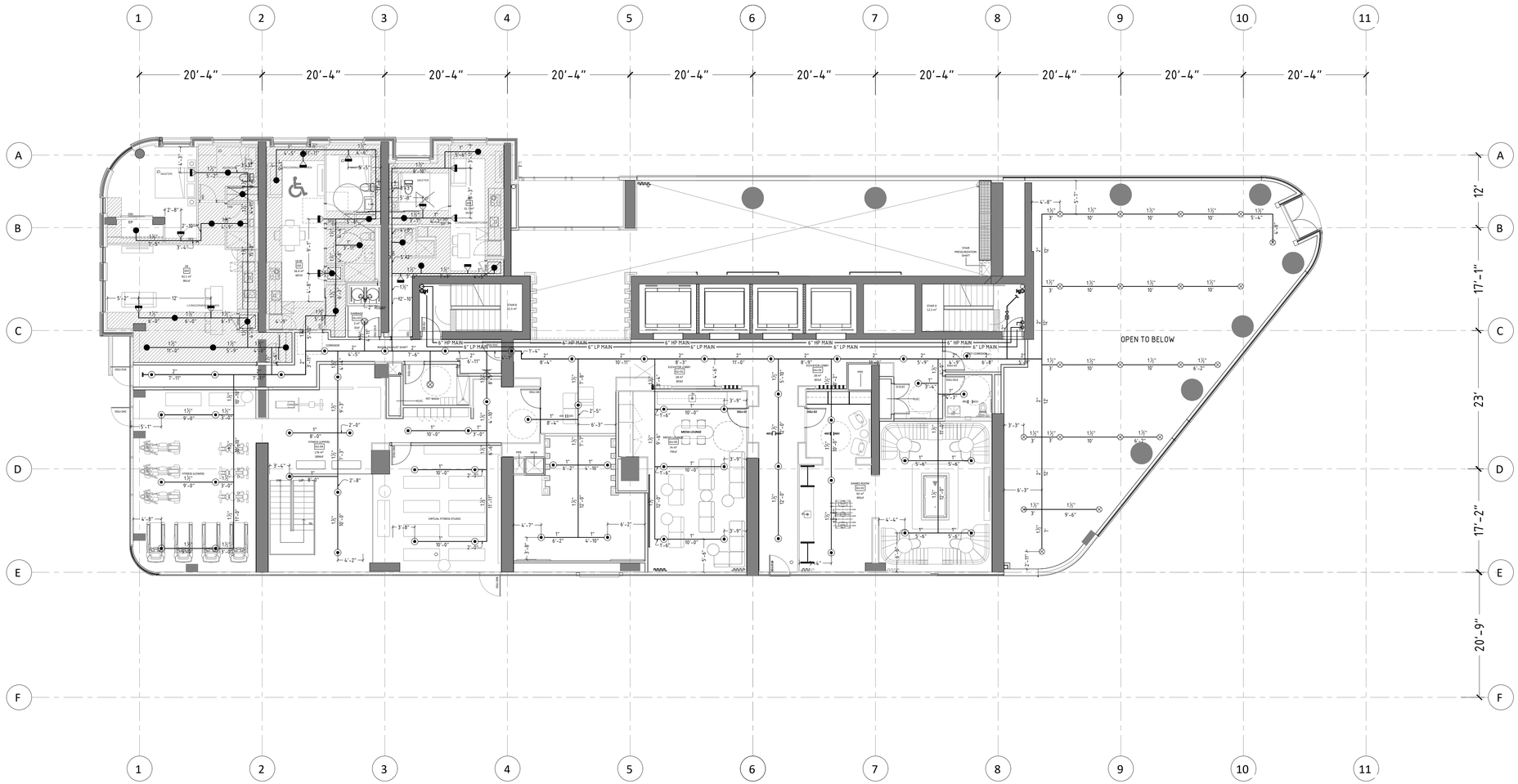
LIFELINE FIRE PROTECTION
www.lifelinefireprotection.com
50 Casmir Court, Concord, ON
L4K 4J5
(416)850-9477

PROJECT NORTH
TRUE NORTH

22-0007
PROJECT

SK	RJ
BY	REVIEWED

SP-12



NO	DATE	DESCRIPTION
X	XXX XX/XXX	XXXXXXXXXXXXXXX

ISSUED/REVISION RECORD

SPRINKLER HEAD LEGEND

C/W GUARD

S/R=STANDARD RESPONSE
S/C=STANDARD COVERAGE

Q/R=QUICK RESPONSE
E/C=EXTENDED COVERAGE

	THREAD SIZE	K-FACTOR	TEMP RATING	STYLE(MODEL)	RESPONSE
	½"	14	155°F	EXTENDED COVERAGE UPRIGHT	S/R
	½"	5.6	165°F	UPRIGHT S/C	S/R
	½"	5.6	165°F	DRY UPRIGHT SPRINKLER HEAD	Q/R
	½"	5.6	165°F	STANDARD COVERAGE UPRIGHT	Q/R
	½"	5.6	212°F	STANDARD COVERAGE UPRIGHT	Q/R
	1"	5.6	155°F	FULLY CONCEALED DRY PENDENT S/C	Q/R
	1"	5.6	165°F	DRY PENDENT S/C	Q/R
	½"	11.2	200°F	EXTENDED COVERAGE SIDEWALL	S/R
	½"	5.6	155°F	WINDOW SPRINKLER	Q/R
	½"	5.6	165°F	STANDARD COVERAGE SIDEWALL	Q/R
	½"	5.8	200°F	RESIDENTIAL FULLY CONCEALED PENDENT	Q/R
	½"	5.8	200°F	RESIDENTIAL FULLY CONCEALED SIDEWALL	Q/R
	½"	5.6	165°F	CONCEALED PENDENT S/C	Q/R
	½"	5.6	212°F	RESIDENTIAL FULLY CONCEALED PENDENT S/C	Q/R
	½"	8.0	286°F	UPRIGHT IN LOCKER ROOM S/C	S/R
	2½"			STANDARD FIRE HOSE VALVE C/W THREADED CAP IN STAIRWELL	
	2½"			FIRE HOSE VALVE IN CABINET C/W FIRE EXTINGUISHER	

REFERENCE TO ALTERNATIVE SOLUTION REPORT :
LOCATE 65 mm DIA FIRE HOSE VALE (FHV) CONNECTIONS WITHIN THE EXIT STAIRS ENCLOSURES. CLASS 1 STANDPIPE SYSTEM. PORTABLE FIRE EXTINGUISHERS PROVIDED THROUGHOUT THE FLOORS.

PROJECT

PROPOSED MIXED-USED DEVELOPMENT

ADDRESS:
775-783 Vaughan Rd & 670-680 Northcliffe Blvd, York, ON

DRAWING TITLE

UPPER GROUND FLOOR
FIRE PROTECTION PLAN

LIFELINE FIRE PROTECTION
www.lifelinefireprotection.com

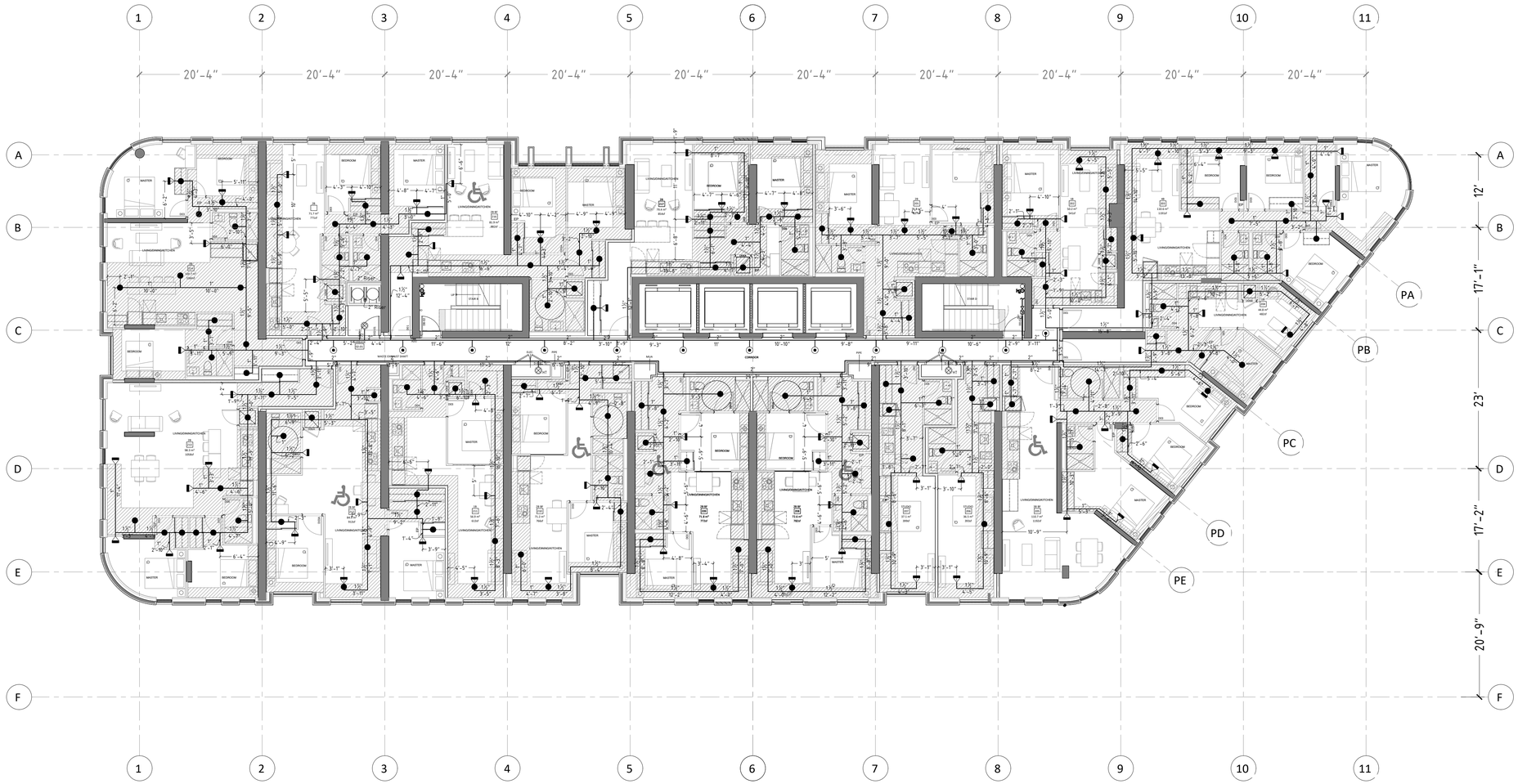
50 Casmir Court, Concord, ON
L4K 4J5
(416)850-9477

PROJECT NORTH
TRUE NORTH

22-0007
PROJECT

SK	RJ
BY	REVIEWED

SP-13



X	XXX XX/XXXX	XXXXXXXXXXXXXXXX
NO	DATE	DESCRIPTION

ISSUED/REVISION RECORD

SPRINKLER HEAD LEGEND

C/W GUARD

S/R=STANDARD RESPONSE
S/C=STANDARD COVERAGE

Q/R=QUICK RESPONSE
E/C=EXTENDED COVERAGE

	THREAD SIZE	K-FACTOR	TEMP RATING	STYLE(MODEL)	RESPONSE
	½"	14	155°F	EXTENDED COVERAGE UPRIGHT	S/R
	½"	5.6	165°F	UPRIGHT S/C	S/R
	½"	5.6	165°F	DRY UPRIGHT SPRINKLER HEAD	Q/R
	½"	5.6	165°F	STANDARD COVERAGE UPRIGHT	Q/R
	½"	5.6	212°F	STANDARD COVERAGE UPRIGHT	Q/R
	1"	5.6	155°F	FULLY CONCEALED DRY PENDENT S/C	Q/R
	1"	5.6	165°F	DRY PENDENT S/C	Q/R
	½"	11.2	200°F	EXTENDED COVERAGE SIDEWALL	S/R
	½"	5.6	155°F	WINDOW SPRINKLER	Q/R
	½"	5.6	165°F	STANDARD COVERAGE SIDEWALL	Q/R
	½"	5.8	200°F	RESIDENTIAL FULLY CONCEALED PENDENT	Q/R
	½"	5.8	200°F	RESIDENTIAL FULLY CONCEALED SIDEWALL	Q/R
	½"	5.6	165°F	CONCEALED PENDENT S/C	Q/R
	½"	5.6	212°F	RESIDENTIAL FULLY CONCEALED PENDENT S/C	Q/R
	¾"	8.0	286°F	UPRIGHT IN LOCKER ROOM S/C	S/R
	2½" STANDARD FIRE HOSE VALVE C/W THREADED CAP IN STAIRWELL				
	2½" FIRE HOSE VALVE IN CABINET C/W FIRE EXTINGUISHER				

REFERENCE TO ALTERNATIVE SOLUTION REPORT :
LOCATE 65 mm DIA FIRE HOSE VALE (FHV) CONNECTIONS WITHIN THE EXIT STAIRS ENCLOSURES. CLASS 1 STANDPIPE SYSTEM. PORTABLE FIRE EXTINGUISHERS PROVIDED THROUGHOUT THE FLOORS.

PROJECT

PROPOSED MIXED-USED DEVELOPMENT

ADDRESS:
775-783 Vaughan Rd & 670-680 Northcliffe Blvd, York, ON

DRAWING TITLE

2ND FLOOR
FIRE PROTECTION PLAN

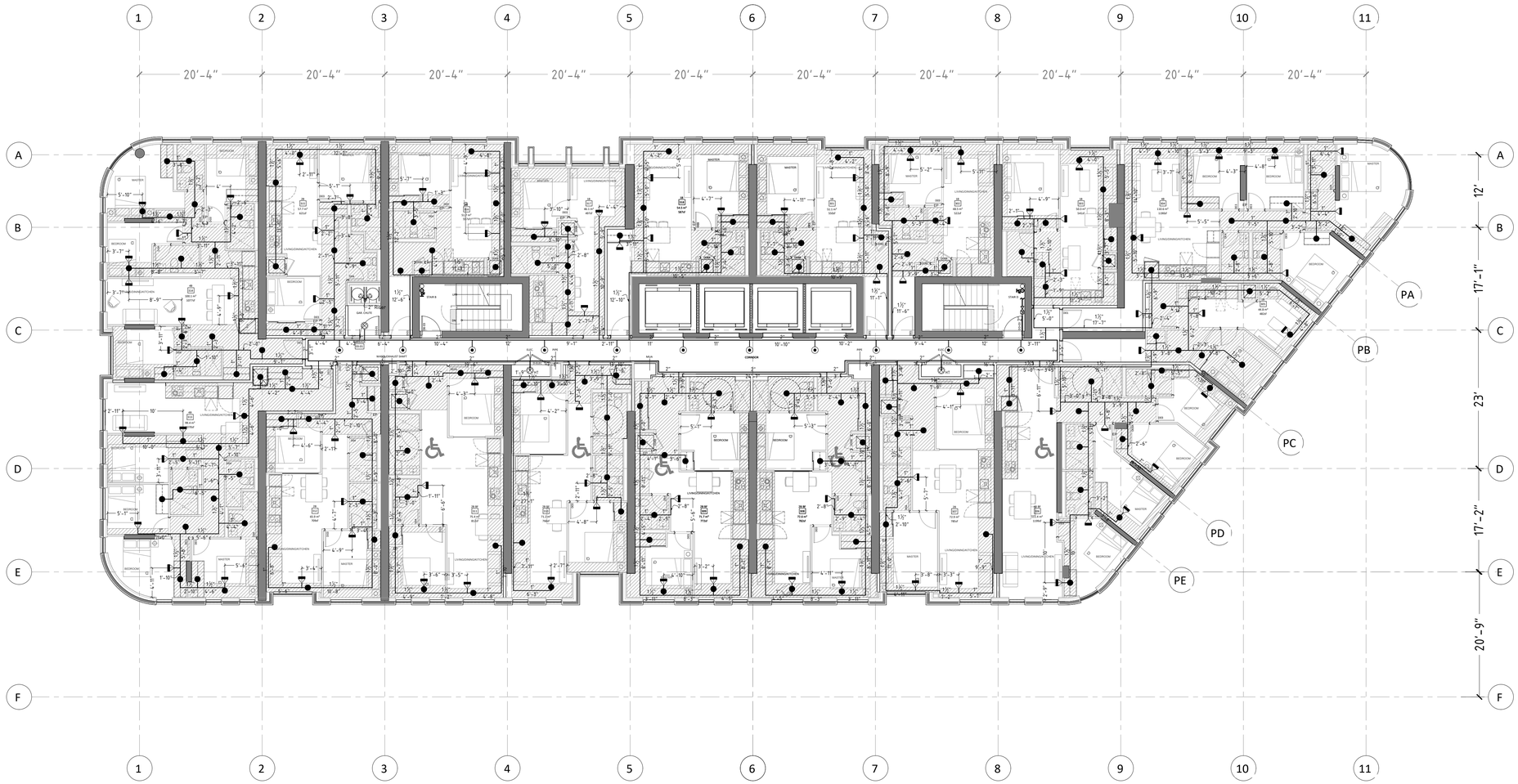
LIFELINE FIRE PROTECTION
www.lifelinefireprotection.com
50 Casmir Court, Concord, ON
L4K 4J5
(416)850-9477

PROJECT NORTH
TRUE NORTH

22-0007
PROJECT

SK	RJ
BY	REVIEWED

SP-14



X	XXX XX/XXXX	XXXXXXXXXXXXXXXX
NO	DATE	DESCRIPTION

ISSUED/REVISION RECORD

SPRINKLER HEAD LEGEND

C/W GUARD

S/R=STANDARD RESPONSE
S/C=STANDARD COVERAGE

Q/R=QUICK RESPONSE
E/C=EXTENDED COVERAGE

	THREAD SIZE	K-FACTOR	TEMP RATING	STYLE(MODEL)	RESPONSE
	X"	14	155°F	EXTENDED COVERAGE UPRIGHT	S/R
	X"	5.6	165°F	UPRIGHT S/C	S/R
	X"	5.6	165°F	DRY UPRIGHT SPRINKLER HEAD	Q/R
	X"	5.6	165°F	STANDARD COVERAGE UPRIGHT	Q/R
	X"	5.6	212°F	STANDARD COVERAGE UPRIGHT	Q/R
	1"	5.6	155°F	FULLY CONCEALED DRY PENDENT S/C	Q/R
	1"	5.6	165°F	DRY PENDENT S/C	Q/R
	X"	11.2	200°F	EXTENDED COVERAGE SIDEWALL	S/R
	X"	5.6	155°F	WINDOW SPRINKLER	Q/R
	X"	5.6	165°F	STANDARD COVERAGE SIDEWALL	Q/R
	X"	5.8	200°F	RESIDENTIAL FULLY CONCEALED PENDENT	Q/R
	X"	5.8	200°F	RESIDENTIAL FULLY CONCEALED SIDEWALL	Q/R
	X"	5.6	165°F	CONCEALED PENDENT S/C	Q/R
	X"	5.6	212°F	RESIDENTIAL FULLY CONCEALED PENDENT S/C	Q/R
	X"	8.0	286°F	UPRIGHT IN LOCKER ROOM S/C	S/R
	2½" STANDARD FIRE HOSE VALVE C/W THREADED CAP IN STAIRWELL				
	2½" FIRE HOSE VALVE IN CABINET C/W FIRE EXTINGUISHER				

REFERENCE TO ALTERNATIVE SOLUTION REPORT :
LOCATE 65 mm DIA FIRE HOSE VALE (FHV) CONNECTIONS WITHIN THE EXIT STAIRS ENCLOSURES. CLASS 1 STANDPIPE SYSTEM. PORTABLE FIRE EXTINGUISHERS PROVIDED THROUGHOUT THE FLOORS.

PROJECT

PROPOSED MIXED-USED DEVELOPMENT

ADDRESS:
775-783 Vaughan Rd & 670-680 Northcliffe Blvd, York, ON

DRAWING TITLE

3RD - 5TH FLOOR
FIRE PROTECTION PLAN

LIFELINE FIRE PROTECTION
www.lifelinefireprotection.com

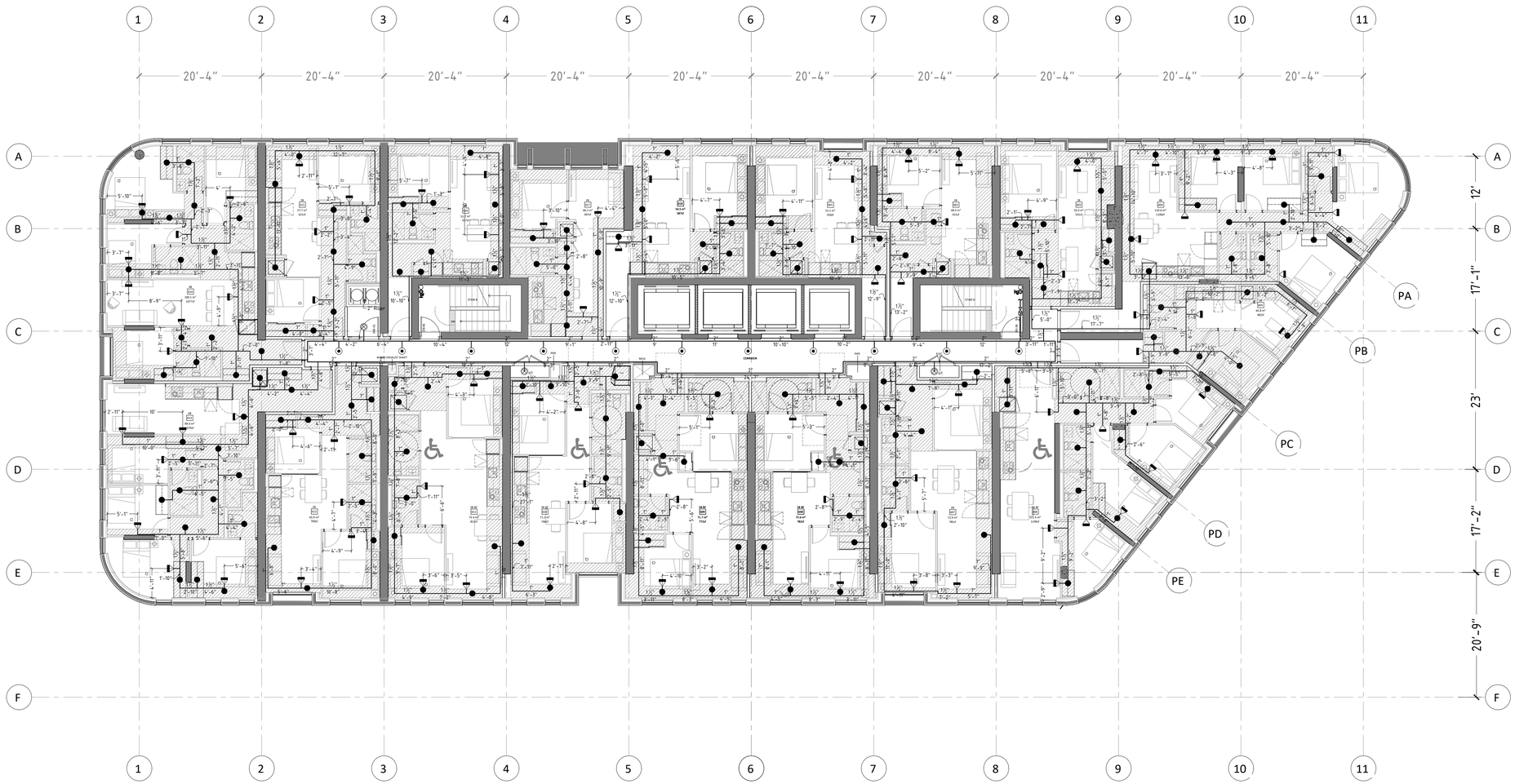
50 Casmir Court, Concord, ON
L4K 4J5
(416)850-9477

PROJECT NORTH
TRUE NORTH

22-0007
PROJECT

SK	RJ
BY	REVIEWED

SP-15



NO	DATE	DESCRIPTION
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ISSUED/REVISION RECORD

SPRINKLER HEAD LEGEND

C/W GUARD

S/R=STANDARD RESPONSE
S/C=STANDARD COVERAGE

Q/R=QUICK RESPONSE
E/C=EXTENDED COVERAGE

	THREAD SIZE	K-FACTOR	TEMP RATING	STYLE(MODEL)	RESPONSE
	1/2"	14	155°F	EXTENDED COVERAGE UPRIGHT	S/R
	1/2"	5.6	165°F	UPRIGHT S/C	S/R
	1/2"	5.6	165°F	DRY UPRIGHT SPRINKLER HEAD	Q/R
	1/2"	5.6	165°F	STANDARD COVERAGE UPRIGHT	Q/R
201	1/2"	5.6	212°F	STANDARD COVERAGE UPRIGHT	Q/R
	1"	5.6	155°F	FULLY CONCEALED DRY PENDENT S/C	Q/R
	1"	5.6	165°F	DRY PENDENT S/C	Q/R
	1/2"	11.2	200°F	EXTENDED COVERAGE SIDEWALL	S/R
	1/2"	5.6	155°F	WINDOW SPRINKLER	Q/R
	1/2"	5.6	165°F	STANDARD COVERAGE SIDEWALL	Q/R
	1/2"	5.8	200°F	RESIDENTIAL FULLY CONCEALED PENDENT	Q/R
	1/2"	5.8	200°F	RESIDENTIAL FULLY CONCEALED SIDEWALL	Q/R
	1/2"	5.6	165°F	CONCEALED PENDENT S/C	Q/R
	1/2"	5.6	212°F	RESIDENTIAL FULLY CONCEALED PENDENT S/C	Q/R
	1/2"	8.0	286°F	UPRIGHT IN LOCKER ROOM S/C	S/R
	2 1/2" STANDARD FIRE HOSE VALVE C/W THREADED CAP IN STAIRWELL				
	2 1/2" FIRE HOSE VALVE IN CABINET C/W FIRE EXTINGUISHER				

REFERENCE TO ALTERNATIVE SOLUTION REPORT :
LOCATE 65 mm DIA FIRE HOSE VALE (FHV) CONNECTIONS WITHIN THE EXIT STAIRS ENCLOSURES. CLASS 1 STANDPIPE SYSTEM. PORTABLE FIRE EXTINGUISHERS PROVIDED THROUGHOUT THE FLOORS.

PROJECT

PROPOSED MIXED-USED DEVELOPMENT

ADDRESS:
775-783 Vaughan Rd & 670-680 Northcliffe Blvd, York, ON

DRAWING TITLE

6TH FLOOR
FIRE PROTECTION PLAN

LIFELINE FIRE PROTECTION
www.lifelinefireprotection.com

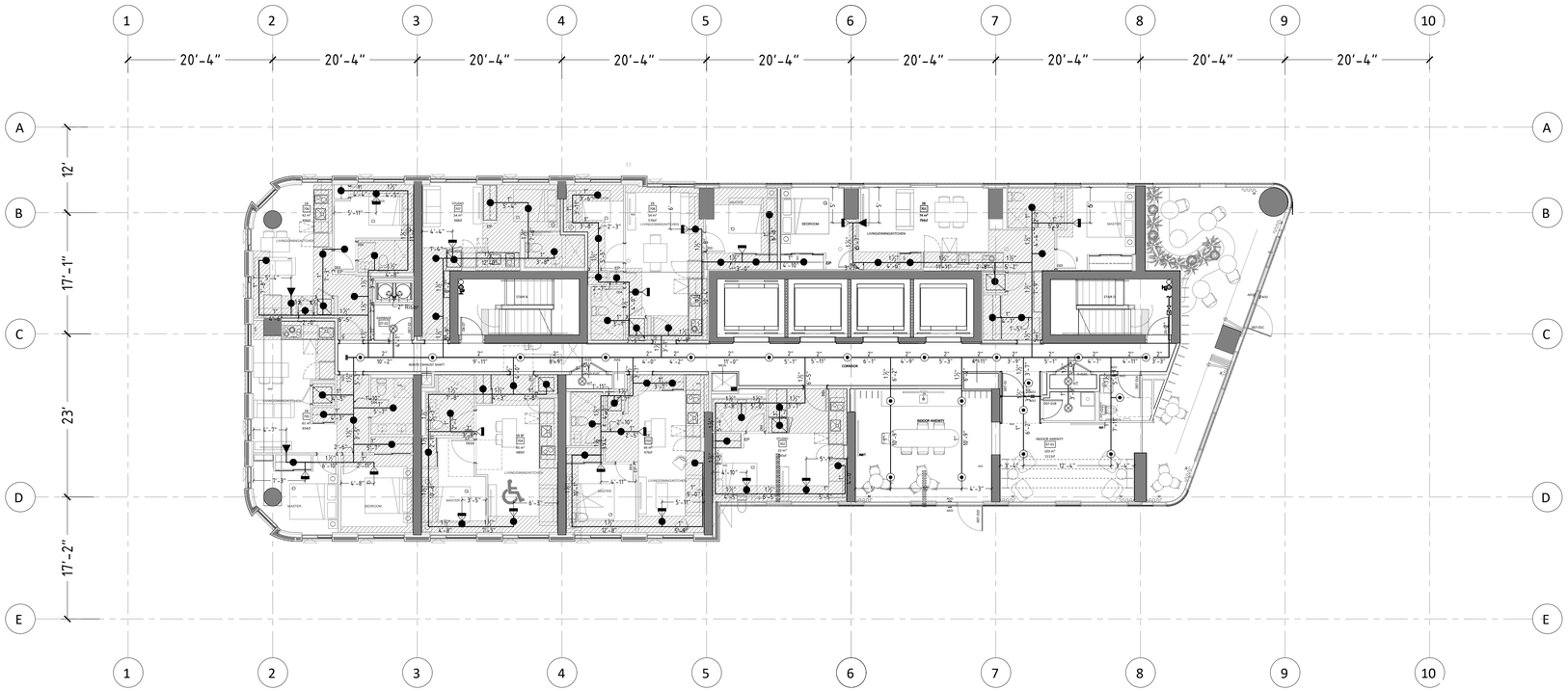
50 Casmir Court, Concord, ON
L4K 4J5
(416)850-9477

PROJECT NORTH
TRUE NORTH

22-0007
PROJECT

SK	RJ
BY	REVIEWED

SP-16



NO	DATE	DESCRIPTION
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ISSUED/REVISION RECORD

SPRINKLER HEAD LEGEND

C/W GUARD

S/R=STANDARD RESPONSE
S/C=STANDARD COVERAGE

Q/R=QUICK RESPONSE
E/C=EXTENDED COVERAGE

	THREAD SIZE	K-FACTOR	TEMP RATING	STYLE(MODEL)	RESPONSE
	1/2"	14	155°F	EXTENDED COVERAGE UPRIGHT	S/R
	1/2"	5.6	165°F	UPRIGHT S/C	S/R
	1/2"	5.6	165°F	DRY UPRIGHT SPRINKLER HEAD	Q/R
	1/2"	5.6	165°F	STANDARD COVERAGE UPRIGHT	Q/R
201	1/2"	5.6	212°F	STANDARD COVERAGE UPRIGHT	Q/R
	1"	5.6	155°F	FULLY CONCEALED DRY PENDENT S/C	Q/R
	1"	5.6	165°F	DRY PENDENT S/C	Q/R
	1/2"	11.2	200°F	EXTENDED COVERAGE SIDEWALL	S/R
	1/2"	5.6	155°F	WINDOW SPRINKLER	Q/R
	1/2"	5.6	165°F	STANDARD COVERAGE SIDEWALL	Q/R
	1/2"	5.8	200°F	RESIDENTIAL FULLY CONCEALED PENDENT	Q/R
	1/2"	5.8	200°F	RESIDENTIAL FULLY CONCEALED SIDEWALL	Q/R
	1/2"	5.6	165°F	CONCEALED PENDENT S/C	Q/R
H	1/2"	5.6	212°F	RESIDENTIAL FULLY CONCEALED PENDENT S/C	Q/R
	1/2"	8.0	286°F	UPRIGHT IN LOCKER ROOM S/C	S/R
	2 1/2" STANDARD FIRE HOSE VALVE C/W THREADED CAP IN STAIRWELL				
	2 1/2" FIRE HOSE VALVE IN CABINET C/W FIRE EXTINGUISHER				

REFERENCE TO ALTERNATIVE SOLUTION REPORT :
LOCATE 65 mm DIA FIRE HOSE VALE (FHV) CONNECTIONS WITHIN THE EXIT STAIRS ENCLOSURES. CLASS 1 STANDPIPE SYSTEM. PORTABLE FIRE EXTINGUISHERS PROVIDED THROUGHOUT THE FLOORS.

PROJECT

PROPOSED MIXED-USED DEVELOPMENT

ADDRESS:
775-783 Vaughan Rd & 670-680 Northcliffe Blvd, York, ON

DRAWING TITLE

7TH FLOOR
FIRE PROTECTION PLAN

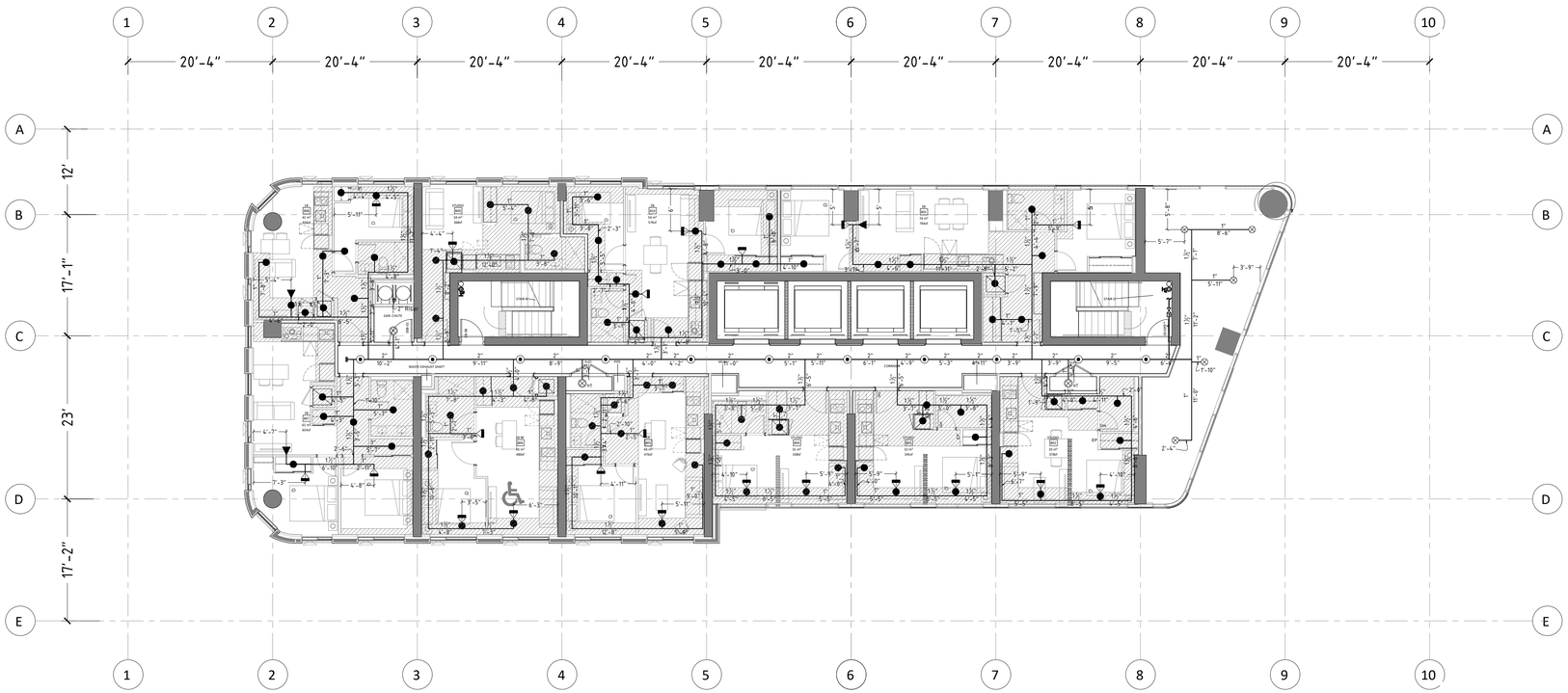
LIFELINE FIRE PROTECTION
www.lifelinefireprotection.com
50 Casmir Court, Concord, ON
L4K 4J5
(416)850-9477

PROJECT NORTH TRUE NORTH

22-0007
PROJECT

SK	RJ
BY	REVIEWED

SP-17



NO	DATE	DESCRIPTION
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ISSUED/REVISION RECORD

SPRINKLER HEAD LEGEND

C/W GUARD

S/R=STANDARD RESPONSE
S/C=STANDARD COVERAGE

Q/R=QUICK RESPONSE
E/C=EXTENDED COVERAGE

	THREAD SIZE	K-FACTOR	TEMP RATING	STYLE(MODEL)	RESPONSE
	½"	14	155°F	EXTENDED COVERAGE UPRIGHT	S/R
	½"	5.6	165°F	UPRIGHT S/C	S/R
	½"	5.6	165°F	DRY UPRIGHT SPRINKLER HEAD	Q/R
	½"	5.6	165°F	STANDARD COVERAGE UPRIGHT	Q/R
	½"	5.6	212°F	STANDARD COVERAGE UPRIGHT	Q/R
	1"	5.6	155°F	FULLY CONCEALED DRY PENDENT S/C	Q/R
	1"	5.6	165°F	DRY PENDENT S/C	Q/R
	½"	11.2	200°F	EXTENDED COVERAGE SIDEWALL	S/R
	½"	5.6	155°F	WINDOW SPRINKLER	Q/R
	½"	5.6	165°F	STANDARD COVERAGE SIDEWALL	Q/R
	½"	5.8	200°F	RESIDENTIAL FULLY CONCEALED PENDENT	Q/R
	½"	5.8	200°F	RESIDENTIAL FULLY CONCEALED SIDEWALL	Q/R
	½"	5.6	165°F	CONCEALED PENDENT S/C	Q/R
	½"	5.6	212°F	RESIDENTIAL FULLY CONCEALED PENDENT S/C	Q/R
	½"	8.0	286°F	UPRIGHT IN LOCKER ROOM S/C	S/R
	2 ½" STANDARD FIRE HOSE VALVE C/W THREADED CAP IN STAIRWELL				
	2 ½" FIRE HOSE VALVE IN CABINET C/W FIRE EXTINGUISHER				

REFERENCE TO ALTERNATIVE SOLUTION REPORT :
LOCATE 65 mm DIA FIRE HOSE VALE (FHV) CONNECTIONS WITHIN THE EXIT STAIRS ENCLOSURES. CLASS 1 STANDPIPE SYSTEM. PORTABLE FIRE EXTINGUISHERS PROVIDED THROUGHOUT THE FLOORS.

PROJECT

PROPOSED MIXED-USED DEVELOPMENT

ADDRESS:
775-783 Vaughan Rd & 670-680 Northcliffe Blvd, York, ON

DRAWING TITLE

8TH FLOOR
FIRE PROTECTION PLAN

LIFELINE FIRE PROTECTION
www.lifelinefireprotection.com

50 Casmir Court, Concord, ON
L4K 4J5
(416)850-9477

PROJECT NORTH
TRUE NORTH

22-0007
PROJECT

SK	RJ
BY	REVIEWED

SP-18

NO	DATE	DESCRIPTION
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ISSUED/REVISION RECORD

SPRINKLER HEAD LEGEND

C/W GUARD

S/R=STANDARD RESPONSE
S/C=STANDARD COVERAGE

Q/R=QUICK RESPONSE
E/C=EXTENDED COVERAGE

	THREAD SIZE	K-FACTOR	TEMP RATING	STYLE(MODEL)	RESPONSE
	½"	14	155°F	EXTENDED COVERAGE UPRIGHT	S/R
	½"	5.6	165°F	UPRIGHT S/C	S/R
	½"	5.6	165°F	DRY UPRIGHT SPRINKLER HEAD	Q/R
	½"	5.6	165°F	STANDARD COVERAGE UPRIGHT	Q/R
201	½"	5.6	212°F	STANDARD COVERAGE UPRIGHT	Q/R
	1"	5.6	155°F	FULLY CONCEALED DRY PENDENT S/C	Q/R
	1"	5.6	165°F	DRY PENDENT S/C	Q/R
	½"	11.2	200°F	EXTENDED COVERAGE SIDEWALL	S/R
	½"	5.6	155°F	WINDOW SPRINKLER	Q/R
	½"	5.6	165°F	STANDARD COVERAGE SIDEWALL	Q/R
	½"	5.8	200°F	RESIDENTIAL FULLY CONCEALED PENDENT	Q/R
	½"	5.8	200°F	RESIDENTIAL FULLY CONCEALED SIDEWALL	Q/R
	½"	5.6	165°F	CONCEALED PENDENT S/C	Q/R
	½"	5.6	212°F	RESIDENTIAL FULLY CONCEALED PENDENT S/C	Q/R
	½"	8.0	286°F	UPRIGHT IN LOCKER ROOM S/C	S/R
	2½" STANDARD FIRE HOSE VALVE C/W THREADED CAP IN STAIRWELL				
	2½" FIRE HOSE VALVE IN CABINET C/W FIRE EXTINGUISHER				

REFERENCE TO ALTERNATIVE SOLUTION REPORT :
LOCATE 65 mm DIA FIRE HOSE VALE (FHV) CONNECTIONS WITHIN THE EXIT STAIRS ENCLOSURES. CLASS 1 STANDPIPE SYSTEM. PORTABLE FIRE EXTINGUISHERS PROVIDED THROUGHOUT THE FLOORS.

PROJECT

PROPOSED MIXED-USED DEVELOPMENT

ADDRESS:
775-783 Vaughan Rd & 670-680 Northcliffe Blvd, York, ON

DRAWING TITLE

9TH FLOOR
FIRE PROTECTION PLAN

LIFELINE FIRE PROTECTION
www.lifelinefireprotection.com

50 Casmir Court, Concord, ON
L4K 4J5
(416)850-9477

PROJECT NORTH
TRUE NORTH

22-0007
PROJECT

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NO	DATE	DESCRIPTION
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ISSUED/REVISION RECORD

SPRINKLER HEAD LEGEND

C/W GUARD

S/R=STANDARD RESPONSE
S/C=STANDARD COVERAGE

Q/R=QUICK RESPONSE
E/C=EXTENDED COVERAGE

	THREAD SIZE	K-FACTOR	TEMP RATING	STYLE(MODEL)	RESPONSE
	1/2"	14	155°F	EXTENDED COVERAGE UPRIGHT	S/R
	1/2"	5.6	165°F	UPRIGHT S/C	S/R
	1/2"	5.6	165°F	DRY UPRIGHT SPRINKLER HEAD	Q/R
	1/2"	5.6	165°F	STANDARD COVERAGE UPRIGHT	Q/R
	1/2"	5.6	212°F	STANDARD COVERAGE UPRIGHT	Q/R
	1"	5.6	155°F	FULLY CONCEALED DRY PENDENT S/C	Q/R
	1"	5.6	165°F	DRY PENDENT S/C	Q/R
	1/2"	11.2	200°F	EXTENDED COVERAGE SIDEWALL	S/R
	1/2"	5.6	155°F	WINDOW SPRINKLER	Q/R
	1/2"	5.6	165°F	STANDARD COVERAGE SIDEWALL	Q/R
	1/2"	5.8	200°F	RESIDENTIAL FULLY CONCEALED PENDENT	Q/R
	1/2"	5.8	200°F	RESIDENTIAL FULLY CONCEALED SIDEWALL	Q/R
	1/2"	5.6	165°F	CONCEALED PENDENT S/C	Q/R
	1/2"	5.6	212°F	RESIDENTIAL FULLY CONCEALED PENDENT S/C	Q/R
	1/2"	8.0	286°F	UPRIGHT IN LOCKER ROOM S/C	S/R
	2 1/2" STANDARD FIRE HOSE VALVE C/W THREADED CAP IN STAIRWELL				
	2 1/2" FIRE HOSE VALVE IN CABINET C/W FIRE EXTINGUISHER				

REFERENCE TO ALTERNATIVE SOLUTION REPORT :

LOCATE 65 mm DIA FIRE HOSE VALE (FHV) CONNECTIONS WITHIN THE EXIT STAIRS ENCLOSURES. CLASS 1 STANDPIPE SYSTEM. PORTABLE FIRE EXTINGUISHERS PROVIDED THROUGHOUT THE FLOORS.

PROJECT

PROPOSED MIXED-USED DEVELOPMENT

ADDRESS:
775-783 Vaughan Rd & 670-680 Northcliffe Blvd, York, ON

DRAWING TITLE

10TH-12TH FLOOR
FIRE PROTECTION PLAN

LIFELINE FIRE PROTECTION
www.lifelinefireprotection.com

50 Casmir Court, Concord, ON
L4K 4J5
(416)850-9477

PROJECT NORTH
TRUE NORTH

22-0007
PROJECT

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BY

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REVIEWED

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ISSUED/REVISION RECORD

SPRINKLER HEAD LEGEND

C/W GUARD

S/R=STANDARD RESPONSE
S/C=STANDARD COVERAGE

Q/R=QUICK RESPONSE
E/C=EXTENDED COVERAGE

	THREAD SIZE	K-FACTOR	TEMP RATING	STYLE(MODEL)	RESPONSE
	1/2"	14	155°F	EXTENDED COVERAGE UPRIGHT	S/R
	1/2"	5.6	165°F	UPRIGHT S/C	S/R
	1/2"	5.6	165°F	DRY UPRIGHT SPRINKLER HEAD	Q/R
	1/2"	5.6	165°F	STANDARD COVERAGE UPRIGHT	Q/R
201	1/2"	5.6	212°F	STANDARD COVERAGE UPRIGHT	Q/R
	1"	5.6	155°F	FULLY CONCEALED DRY PENDENT S/C	Q/R
	1"	5.6	165°F	DRY PENDENT S/C	Q/R
	1/2"	11.2	200°F	EXTENDED COVERAGE SIDEWALL	S/R
	1/2"	5.6	155°F	WINDOW SPRINKLER	Q/R
	1/2"	5.6	165°F	STANDARD COVERAGE SIDEWALL	Q/R
	1/2"	5.8	200°F	RESIDENTIAL FULLY CONCEALED PENDENT	Q/R
	1/2"	5.8	200°F	RESIDENTIAL FULLY CONCEALED SIDEWALL	Q/R
	1/2"	5.6	165°F	CONCEALED PENDENT S/C	Q/R
	1/2"	5.6	212°F	RESIDENTIAL FULLY CONCEALED PENDENT S/C	Q/R
	1/2"	8.0	286°F	UPRIGHT IN LOCKER ROOM S/C	S/R
	2½" STANDARD FIRE HOSE VALVE C/W THREADED CAP IN STAIRWELL				
	2½" FIRE HOSE VALVE IN CABINET C/W FIRE EXTINGUISHER				

REFERENCE TO ALTERNATIVE SOLUTION REPORT :
LOCATE 65 mm DIA FIRE HOSE VALE (FHV) CONNECTIONS WITHIN THE EXIT STAIRS ENCLOSURES. CLASS 1 STANDPIPE SYSTEM. PORTABLE FIRE EXTINGUISHERS PROVIDED THROUGHOUT THE FLOORS.

PROJECT

PROPOSED MIXED-USED DEVELOPMENT

ADDRESS:
775-783 Vaughan Rd & 670-680 Northcliffe Blvd, York, ON

DRAWING TITLE

13TH-21ST FLOOR
FIRE PROTECTION PLAN

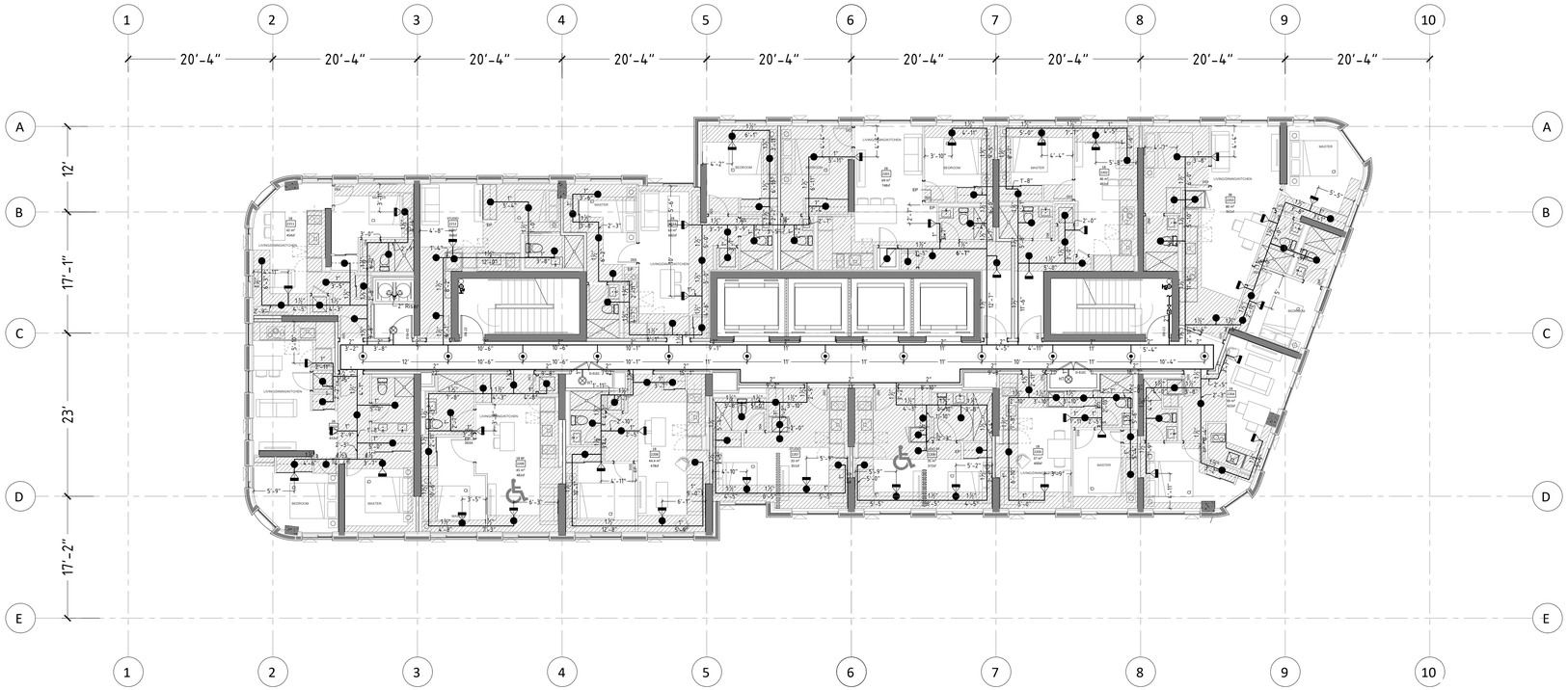
LIFELINE FIRE PROTECTION
www.lifelinefireprotection.com
50 Casmir Court, Concord, ON
L4K 4J5
(416)850-9477

PROJECT NORTH
TRUE NORTH

22-0007
PROJECT

SK	RJ
BY	REVIEWED

SP-21



NO	DATE	DESCRIPTION
X	XXX XX/XXX	XXXXXXXXXXXXXXXX

ISSUED/REVISION RECORD

SPRINKLER HEAD LEGEND

C/W GUARD

S/R=STANDARD RESPONSE
S/C=STANDARD COVERAGE

Q/R=QUICK RESPONSE
E/C=EXTENDED COVERAGE

	THREAD SIZE	K-FACTOR	TEMP RATING	STYLE(MODEL)	RESPONSE
	½"	14	155°F	EXTENDED COVERAGE UPRIGHT	S/R
	½"	5.6	165°F	UPRIGHT S/C	S/R
	½"	5.6	165°F	DRY UPRIGHT SPRINKLER HEAD	Q/R
	½"	5.6	165°F	STANDARD COVERAGE UPRIGHT	Q/R
	½"	5.6	212°F	STANDARD COVERAGE UPRIGHT	Q/R
	1"	5.6	155°F	FULLY CONCEALED DRY PENDENT S/C	Q/R
	1"	5.6	165°F	DRY PENDENT S/C	Q/R
	½"	11.2	200°F	EXTENDED COVERAGE SIDEWALL	S/R
	½"	5.6	155°F	WINDOW SPRINKLER	Q/R
	½"	5.6	165°F	STANDARD COVERAGE SIDEWALL	Q/R
	½"	5.8	200°F	RESIDENTIAL FULLY CONCEALED PENDENT	Q/R
	½"	5.8	200°F	RESIDENTIAL FULLY CONCEALED SIDEWALL	Q/R
	½"	5.6	165°F	CONCEALED PENDENT S/C	Q/R
	½"	5.6	212°F	RESIDENTIAL FULLY CONCEALED PENDENT S/C	Q/R
	½"	8.0	286°F	UPRIGHT IN LOCKER ROOM S/C	S/R
	2½" STANDARD FIRE HOSE VALVE C/W THREADED CAP IN STAIRWELL				
	2½" FIRE HOSE VALVE IN CABINET C/W FIRE EXTINGUISHER				

PROJECT

PROPOSED MIXED-USED DEVELOPMENT

ADDRESS:
775-783 Vaughan Rd & 670-680 Northcliffe Blvd, York, ON

DRAWING TITLE

22TH-23TH FLOOR
FIRE PROTECTION PLAN

LIFELINE FIRE PROTECTION
www.lifelinefireprotection.com

50 Casmir Court, Concord, ON
L4K 4J5
(416)850-9477

PROJECT NORTH
TRUE NORTH

22-0007
PROJECT

SK | RJ
BY | REVIEWED

SP-22

NO	DATE	DESCRIPTION
X	XXX XX/XXX	XXXXXXXXXXXXXXXX

ISSUED/REVISION RECORD

SPRINKLER HEAD LEGEND

C/W GUARD

S/R=STANDARD RESPONSE
S/C=STANDARD COVERAGE

Q/R=QUICK RESPONSE
E/C=EXTENDED COVERAGE

	THREAD SIZE	K-FACTOR	TEMP RATING	STYLE(MODEL)	RESPONSE
	½"	14	155°F	EXTENDED COVERAGE UPRIGHT	S/R
	½"	5.6	165°F	UPRIGHT S/C	S/R
	½"	5.6	165°F	DRY UPRIGHT SPRINKLER HEAD	Q/R
	½"	5.6	165°F	STANDARD COVERAGE UPRIGHT	Q/R
201	½"	5.6	212°F	STANDARD COVERAGE UPRIGHT	Q/R
	1"	5.6	155°F	FULLY CONCEALED DRY PENDENT S/C	Q/R
	1"	5.6	165°F	DRY PENDENT S/C	Q/R
	½"	11.2	200°F	EXTENDED COVERAGE SIDEWALL	S/R
	½"	5.6	155°F	WINDOW SPRINKLER	Q/R
	½"	5.6	165°F	STANDARD COVERAGE SIDEWALL	Q/R
	½"	5.8	200°F	RESIDENTIAL FULLY CONCEALED PENDENT	Q/R
	½"	5.8	200°F	RESIDENTIAL FULLY CONCEALED SIDEWALL	Q/R
	½"	5.6	165°F	CONCEALED PENDENT S/C	Q/R
	½"	5.6	212°F	RESIDENTIAL FULLY CONCEALED PENDENT S/C	Q/R
	½"	8.0	286°F	UPRIGHT IN LOCKER ROOM S/C	S/R
	2 ½" STANDARD FIRE HOSE VALVE C/W THREADED CAP IN STAIRWELL				
	2 ½" FIRE HOSE VALVE IN CABINET C/W FIRE EXTINGUISHER				

PROJECT

PROPOSED MIXED-USED DEVELOPMENT

ADDRESS:
775-783 Vaughan Rd & 670-680
Northcliffe Blvd, York, ON

DRAWING TITLE

24TH-33TH FLOOR
FIRE PROTECTION PLAN

LIFELINE FIRE PROTECTION
www.lifelinefireprotection.com

50 Casmir Court, Concord, ON
L4K 4J5
(416)850-9477

PROJECT NORTH
TRUE NORTH

22-0007
PROJECT

SK	RJ
BY	REVIEWED

SP-23

NO	DATE	DESCRIPTION
X	XXX XX/XXX	XXXXXXXXXXXXXXXX

ISSUED/REVISION RECORD

SPRINKLER HEAD LEGEND

C/W GUARD

S/R=STANDARD RESPONSE
S/C=STANDARD COVERAGE

Q/R=QUICK RESPONSE
E/C=EXTENDED COVERAGE

	THREAD SIZE	K-FACTOR	TEMP RATING	STYLE(MODEL)	RESPONSE
	1/2"	14	155°F	EXTENDED COVERAGE UPRIGHT	S/R
	1/2"	5.6	165°F	UPRIGHT S/C	S/R
	1/2"	5.6	165°F	DRY UPRIGHT SPRINKLER HEAD	Q/R
	1/2"	5.6	165°F	STANDARD COVERAGE UPRIGHT	Q/R
	1/2"	5.6	212°F	STANDARD COVERAGE UPRIGHT	Q/R
	1"	5.6	155°F	FULLY CONCEALED DRY PENDENT S/C	Q/R
	1"	5.6	165°F	DRY PENDENT S/C	Q/R
	1/2"	11.2	200°F	EXTENDED COVERAGE SIDEWALL	S/R
	1/2"	5.6	155°F	WINDOW SPRINKLER	Q/R
	1/2"	5.6	165°F	STANDARD COVERAGE SIDEWALL	Q/R
	1/2"	5.8	200°F	RESIDENTIAL FULLY CONCEALED PENDENT	Q/R
	1/2"	5.8	200°F	RESIDENTIAL FULLY CONCEALED SIDEWALL	Q/R
	1/2"	5.6	165°F	CONCEALED PENDENT S/C	Q/R
	1/2"	5.6	212°F	RESIDENTIAL FULLY CONCEALED PENDENT S/C	Q/R
	1/2"	8.0	286°F	UPRIGHT IN LOCKER ROOM S/C	S/R
	2 1/2" STANDARD FIRE HOSE VALVE C/W THREADED CAP IN STAIRWELL				
	2 1/2" FIRE HOSE VALVE IN CABINET C/W FIRE EXTINGUISHER				

PROJECT

PROPOSED MIXED-USED DEVELOPMENT

ADDRESS:
775-783 Vaughan Rd & 670-680
Northcliffe Blvd, York, ON

DRAWING TITLE

34TH FLOOR
FIRE PROTECTION PLAN

LIFELINE FIRE PROTECTION
www.lifelinefireprotection.com

50 Casmir Court, Concord, ON
L4K 4J5
(416)850-9477

PROJECT NORTH
TRUE NORTH

22-0007
PROJECT

SK	RJ
BY	REVIEWED

SP-24

NO	DATE	DESCRIPTION
X	XXX XX/XXX	XXXXXXXXXXXXXXXX

ISSUED/REVISION RECORD

SPRINKLER HEAD LEGEND

C/W GUARD

S/R=STANDARD RESPONSE
S/C=STANDARD COVERAGE

Q/R=QUICK RESPONSE
E/C=EXTENDED COVERAGE

	THREAD SIZE	K-FACTOR	TEMP RATING	STYLE(MODEL)	RESPONSE
	1/2"	14	155°F	EXTENDED COVERAGE UPRIGHT	S/R
	1/2"	5.6	165°F	UPRIGHT S/C	S/R
	1/2"	5.6	165°F	DRY UPRIGHT SPRINKLER HEAD	Q/R
	1/2"	5.6	165°F	STANDARD COVERAGE UPRIGHT	Q/R
201	1/2"	5.6	212°F	STANDARD COVERAGE UPRIGHT	Q/R
	1"	5.6	155°F	FULLY CONCEALED DRY PENDENT S/C	Q/R
	1"	5.6	165°F	DRY PENDENT S/C	Q/R
	1/2"	11.2	200°F	EXTENDED COVERAGE SIDEWALL	S/R
	1/2"	5.6	155°F	WINDOW SPRINKLER	Q/R
	1/2"	5.6	165°F	STANDARD COVERAGE SIDEWALL	Q/R
	1/2"	5.8	200°F	RESIDENTIAL FULLY CONCEALED PENDENT	Q/R
	1/2"	5.8	200°F	RESIDENTIAL FULLY CONCEALED SIDEWALL	Q/R
	1/2"	5.6	165°F	CONCEALED PENDENT S/C	Q/R
	1/2"	5.6	212°F	RESIDENTIAL FULLY CONCEALED PENDENT S/C	Q/R
	1/2"	8.0	286°F	UPRIGHT IN LOCKER ROOM S/C	S/R
	2 1/2" STANDARD FIRE HOSE VALVE C/W THREADED CAP IN STAIRWELL				
	2 1/2" FIRE HOSE VALVE IN CABINET C/W FIRE EXTINGUISHER				

PROJECT

PROPOSED MIXED-USED DEVELOPMENT

ADDRESS:
775-783 Vaughan Rd & 670-680
Northcliffe Blvd, York, ON

DRAWING TITLE

35TH FLOOR
FIRE PROTECTION PLAN

LIFELINE FIRE PROTECTION
www.lifelinefireprotection.com

50 Casmir Court, Concord, ON
L4K 4J5
(416)850-9477

PROJECT NORTH
TRUE NORTH

22-0007
PROJECT

SK
BY

RJ
REVIEWED

SP-25

NO	DATE	DESCRIPTION
X	XXX XX/XXX	XXXXXXXXXXXXXXX

ISSUED/REVISION RECORD

SPRINKLER HEAD LEGEND

C/W GUARD

S/R=STANDARD RESPONSE
S/C=STANDARD COVERAGE

Q/R=QUICK RESPONSE
E/C=EXTENDED COVERAGE

	THREAD SIZE	K-FACTOR	TEMP RATING	STYLE(MODEL)	RESPONSE
	1/2"	14	155°F	EXTENDED COVERAGE UPRIGHT	S/R
	1/2"	5.6	165°F	UPRIGHT S/C	S/R
	1/2"	5.6	165°F	DRY UPRIGHT SPRINKLER HEAD	Q/R
	1/2"	5.6	165°F	STANDARD COVERAGE UPRIGHT	Q/R
201	1/2"	5.6	212°F	STANDARD COVERAGE UPRIGHT	Q/R
	1"	5.6	155°F	FULLY CONCEALED DRY PENDENT S/C	Q/R
	1"	5.6	165°F	DRY PENDENT S/C	Q/R
	1/2"	11.2	200°F	EXTENDED COVERAGE SIDEWALL	S/R
	1/2"	5.6	155°F	WINDOW SPRINKLER	Q/R
	1/2"	5.6	165°F	STANDARD COVERAGE SIDEWALL	Q/R
	1/2"	5.8	200°F	RESIDENTIAL FULLY CONCEALED PENDENT	Q/R
	1/2"	5.8	200°F	RESIDENTIAL FULLY CONCEALED SIDEWALL	Q/R
	1/2"	5.6	165°F	CONCEALED PENDENT S/C	Q/R
H	1/2"	5.6	212°F	RESIDENTIAL FULLY CONCEALED PENDENT S/C	Q/R
	1/2"	8.0	286°F	UPRIGHT IN LOCKER ROOM S/C	S/R
	2 1/2" STANDARD FIRE HOSE VALVE C/W THREADED CAP IN STAIRWELL				
FHC	2 1/2" FIRE HOSE VALVE IN CABINET C/W FIRE EXTINGUISHER				

PROJECT

PROPOSED MIXED-USED DEVELOPMENT

ADDRESS:
775-783 Vaughan Rd & 670-680
Northcliffe Blvd, York, ON

DRAWING TITLE

36TH FLOOR
FIRE PROTECTION PLAN

LIFELINE FIRE PROTECTION
www.lifelinefireprotection.com

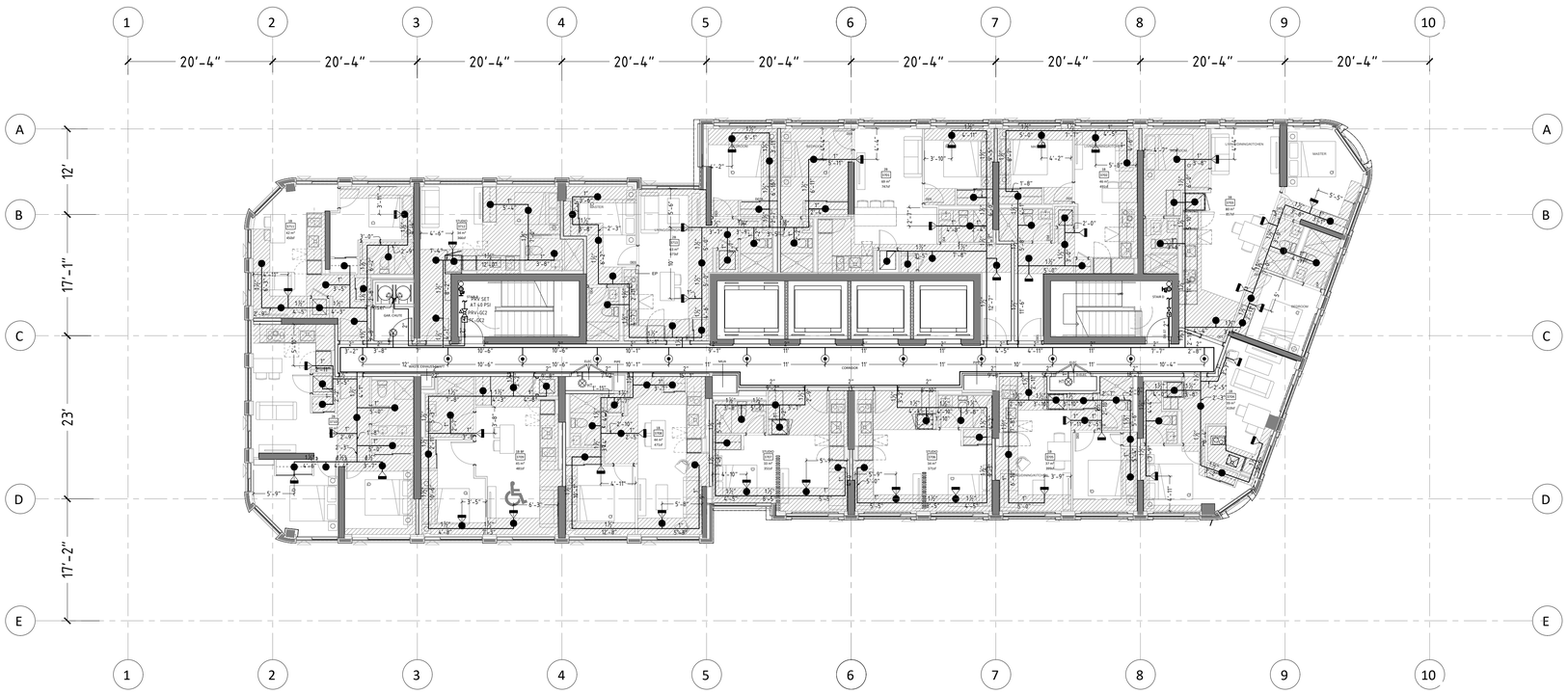
50 Casmir Court, Concord, ON
L4K 4J5
(416)850-9477

PROJECT NORTH
TRUE NORTH

22-0007
PROJECT

SK	RJ
BY	REVIEWED

SP-26



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NO	DATE	DESCRIPTION

ISSUED/REVISION RECORD

SPRINKLER HEAD LEGEND

C/W GUARD

S/R=STANDARD RESPONSE
S/C=STANDARD COVERAGE

Q/R=QUICK RESPONSE
E/C=EXTENDED COVERAGE

	THREAD SIZE	K-FACTOR	TEMP RATING	STYLE(MODEL)	RESPONSE
	1/2"	14	155°F	EXTENDED COVERAGE UPRIGHT	S/R
	1/2"	5.6	165°F	UPRIGHT S/C	S/R
	1/2"	5.6	165°F	DRY UPRIGHT SPRINKLER HEAD	Q/R
	1/2"	5.6	165°F	STANDARD COVERAGE UPRIGHT	Q/R
	1/2"	5.6	212°F	STANDARD COVERAGE UPRIGHT	Q/R
	1"	5.6	155°F	FULLY CONCEALED DRY PENDENT S/C	Q/R
	1"	5.6	165°F	DRY PENDENT S/C	Q/R
	1/2"	11.2	200°F	EXTENDED COVERAGE SIDEWALL	S/R
	1/2"	5.6	155°F	WINDOW SPRINKLER	Q/R
	1/2"	5.6	165°F	STANDARD COVERAGE SIDEWALL	Q/R
	1/2"	5.8	200°F	RESIDENTIAL FULLY CONCEALED PENDENT	Q/R
	1/2"	5.8	200°F	RESIDENTIAL FULLY CONCEALED SIDEWALL	Q/R
	1/2"	5.6	165°F	CONCEALED PENDENT S/C	Q/R
	1/2"	5.6	212°F	RESIDENTIAL FULLY CONCEALED PENDENT S/C	Q/R
	1/2"	8.0	286°F	UPRIGHT IN LOCKER ROOM S/C	S/R
	2 1/2" STANDARD FIRE HOSE VALVE C/W THREADED CAP IN STAIRWELL				
	2 1/2" FIRE HOSE VALVE IN CABINET C/W FIRE EXTINGUISHER				

PROJECT

PROPOSED MIXED-USED DEVELOPMENT

ADDRESS:
775-783 Vaughan Rd & 670-680
Northcliffe Blvd, York, ON

DRAWING TITLE

37TH FLOOR
FIRE PROTECTION PLAN

LIFELINE FIRE PROTECTION
www.lifelinefireprotection.com

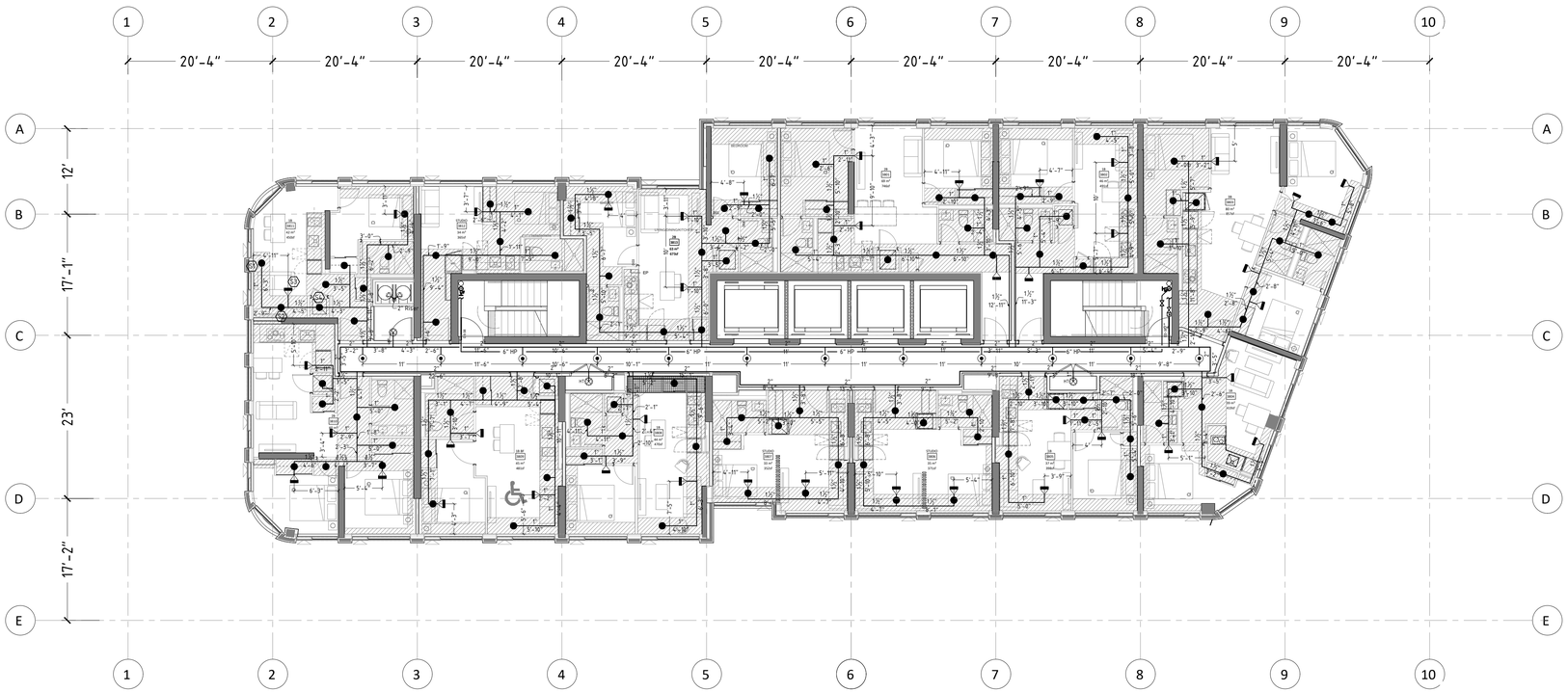
50 Casmir Court, Concord, ON
L4K 4J5
(416)850-9477

PROJECT NORTH
TRUE NORTH

22-0007
PROJECT

SK	RJ
BY	REVIEWED

SP-27



NO	DATE	DESCRIPTION
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ISSUED/REVISION RECORD

SPRINKLER HEAD LEGEND

C/W GUARD

S/R=STANDARD RESPONSE
S/C=STANDARD COVERAGE

Q/R=QUICK RESPONSE
E/C=EXTENDED COVERAGE

	THREAD SIZE	K-FACTOR	TEMP RATING	STYLE(MODEL)	RESPONSE
	1/2"	14	155°F	EXTENDED COVERAGE UPRIGHT	S/R
	1/2"	5.6	165°F	UPRIGHT S/C	S/R
	1/2"	5.6	165°F	DRY UPRIGHT SPRINKLER HEAD	Q/R
	1/2"	5.6	165°F	STANDARD COVERAGE UPRIGHT	Q/R
201	1/2"	5.6	212°F	STANDARD COVERAGE UPRIGHT	Q/R
	1"	5.6	155°F	FULLY CONCEALED DRY PENDENT S/C	Q/R
	1"	5.6	165°F	DRY PENDENT S/C	Q/R
	1/2"	11.2	200°F	EXTENDED COVERAGE SIDEWALL	S/R
	1/2"	5.6	155°F	WINDOW SPRINKLER	Q/R
	1/2"	5.6	165°F	STANDARD COVERAGE SIDEWALL	Q/R
	1/2"	5.8	200°F	RESIDENTIAL FULLY CONCEALED PENDENT	Q/R
	1/2"	5.8	200°F	RESIDENTIAL FULLY CONCEALED SIDEWALL	Q/R
	1/2"	5.6	165°F	CONCEALED PENDENT S/C	Q/R
	1/2"	5.6	212°F	RESIDENTIAL FULLY CONCEALED PENDENT S/C	Q/R
	1/2"	8.0	286°F	UPRIGHT IN LOCKER ROOM S/C	S/R
	2 1/2" STANDARD FIRE HOSE VALVE C/W THREADED CAP IN STAIRWELL				
	2 1/2" FIRE HOSE VALVE IN CABINET C/W FIRE EXTINGUISHER				

PROJECT

PROPOSED MIXED-USED DEVELOPMENT

ADDRESS:
775-783 Vaughan Rd & 670-680
Northcliffe Blvd, York, ON

DRAWING TITLE

38TH FLOOR
FIRE PROTECTION PLAN

LIFELINE FIRE PROTECTION
www.lifelinefireprotection.com

50 Casmir Court, Concord, ON
L4K 4J5
(416)850-9477

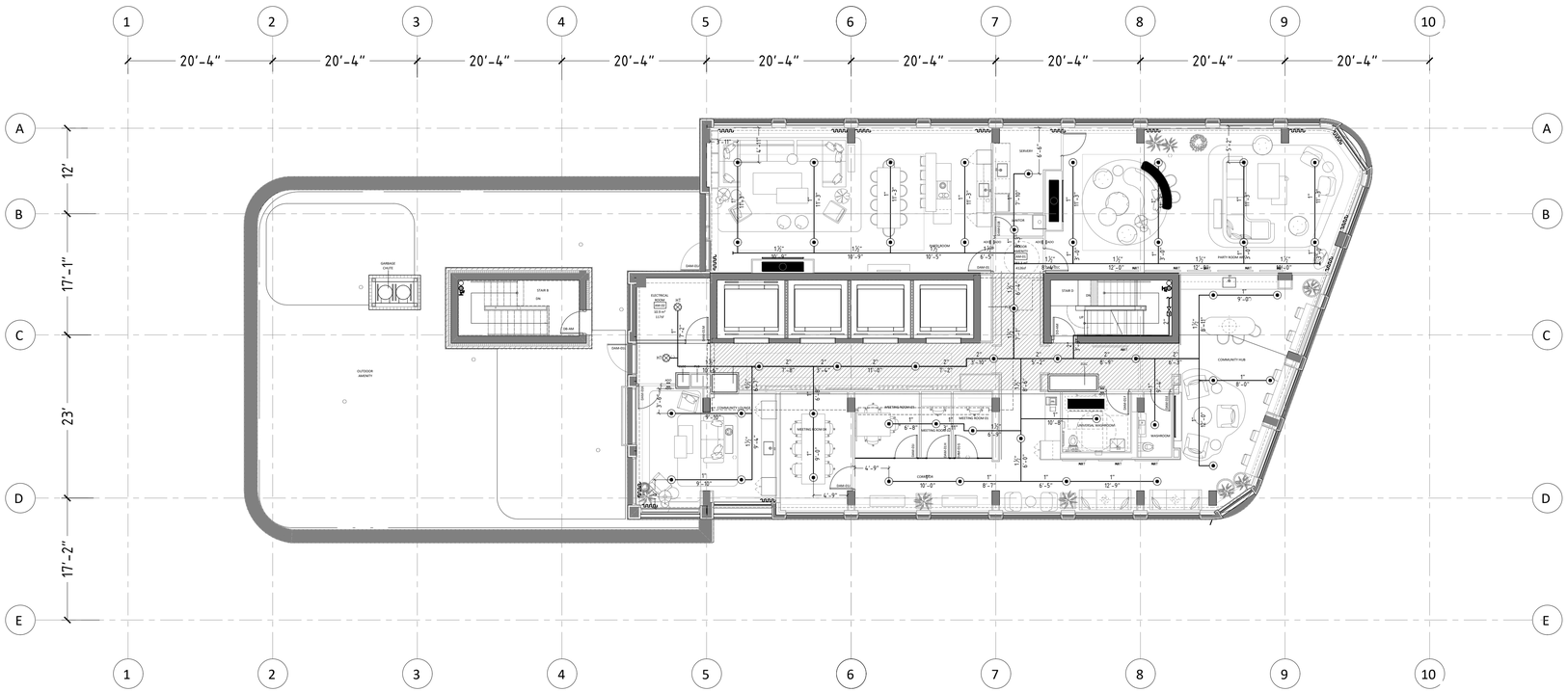
PROJECT NORTH
TRUE NORTH

22-0007
PROJECT

SK
BY

RJ
REVIEWED

SP-28



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NO	DATE	DESCRIPTION

ISSUED/REVISION RECORD

SPRINKLER HEAD LEGEND

C/W GUARD

S/R=STANDARD RESPONSE
S/C=STANDARD COVERAGE
Q/R=QUICK RESPONSE
E/C=EXTENDED COVERAGE

	THREAD SIZE	K-FACTOR	TEMP RATING	STYLE(MODEL)	RESPONSE
	1/2"	14	155°F	EXTENDED COVERAGE UPRIGHT	S/R
	1/2"	5.6	165°F	UPRIGHT S/C	S/R
	1/2"	5.6	165°F	DRY UPRIGHT SPRINKLER HEAD	Q/R
	1/2"	5.6	165°F	STANDARD COVERAGE UPRIGHT	Q/R
301	1/2"	5.6	212°F	STANDARD COVERAGE UPRIGHT	Q/R
	1"	5.6	155°F	FULLY CONCEALED DRY PENDENT S/C	Q/R
	1"	5.6	165°F	DRY PENDENT S/C	Q/R
	1/2"	11.2	200°F	EXTENDED COVERAGE SIDEWALL	S/R
	1/2"	5.6	155°F	WINDOW SPRINKLER	Q/R
	1/2"	5.6	165°F	STANDARD COVERAGE SIDEWALL	Q/R
	1/2"	5.8	200°F	RESIDENTIAL FULLY CONCEALED PENDENT	Q/R
	1/2"	5.8	200°F	RESIDENTIAL FULLY CONCEALED SIDEWALL	Q/R
	1/2"	5.6	165°F	CONCEALED PENDENT S/C	Q/R
	1/2"	5.6	212°F	RESIDENTIAL FULLY CONCEALED PENDENT S/C	Q/R
	1/2"	8.0	286°F	UPRIGHT IN LOCKER ROOM S/C	S/R
	2½" STANDARD FIRE HOSE VALVE C/W THREADED CAP IN STAIRWELL				
	2½" FIRE HOSE VALVE IN CABINET C/W FIRE EXTINGUISHER				

PROJECT

PROPOSED MIXED-USED DEVELOPMENT

ADDRESS:
775-783 Vaughan Rd & 670-680
Northcliffe Blvd, York, ON

DRAWING TITLE

AMENITY FLOOR
FIRE PROTECTION PLAN

LIFELINE FIRE PROTECTION
www.lifelinefireprotection.com

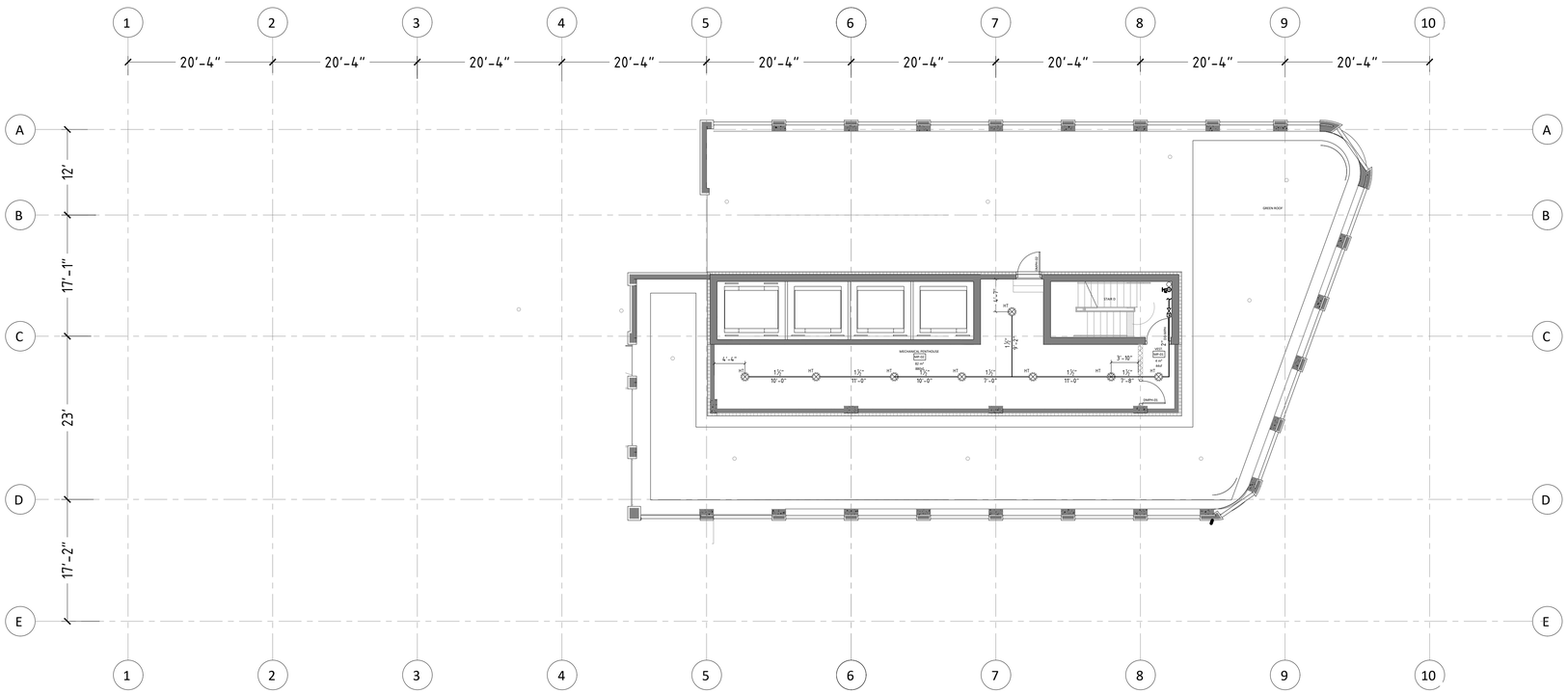
50 Cosmir Court, Concord, ON
L4K 4J5
(416)850-9477

PROJECT NORTH
TRUE NORTH

22-0007
PROJECT

SK	RJ
BY	REVIEWED

SP-29



NO	DATE	DESCRIPTION
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ISSUED/REVISION RECORD

SPRINKLER HEAD LEGEND

C/W GUARD

S/R=STANDARD RESPONSE
S/C=STANDARD COVERAGE

Q/R=QUICK RESPONSE
E/C=EXTENDED COVERAGE

	THREAD SIZE	K-FACTOR	TEMP RATING	STYLE(MODEL)	RESPONSE
	½"	14	155°F	EXTENDED COVERAGE UPRIGHT	S/R
	½"	5.6	165°F	UPRIGHT S/C	S/R
	½"	5.6	165°F	DRY UPRIGHT SPRINKLER HEAD	Q/R
	½"	5.6	165°F	STANDARD COVERAGE UPRIGHT	Q/R
H1	½"	5.6	212°F	STANDARD COVERAGE UPRIGHT	Q/R
	1"	5.6	155°F	FULLY CONCEALED DRY PENDENT S/C	Q/R
	1"	5.6	165°F	DRY PENDENT S/C	Q/R
	½"	11.2	200°F	EXTENDED COVERAGE SIDEWALL	S/R
	½"	5.6	155°F	WINDOW SPRINKLER	Q/R
	½"	5.6	165°F	STANDARD COVERAGE SIDEWALL	Q/R
	½"	5.8	200°F	RESIDENTIAL FULLY CONCEALED PENDENT	Q/R
	½"	5.8	200°F	RESIDENTIAL FULLY CONCEALED SIDEWALL	Q/R
	½"	5.6	165°F	CONCEALED PENDENT S/C	Q/R
H	½"	5.6	212°F	RESIDENTIAL FULLY CONCEALED PENDENT S/C	Q/R
	½"	8.0	286°F	UPRIGHT IN LOCKER ROOM S/C	S/R
	2½" STANDARD FIRE HOSE VALVE C/W THREADED CAP IN STAIRWELL				
FE	2½" FIRE HOSE VALVE IN CABINET C/W FIRE EXTINGUISHER				

PROJECT

PROPOSED MIXED-USED DEVELOPMENT

ADDRESS:
775-783 Vaughan Rd & 670-680
Northcliffe Blvd, York, ON

DRAWING TITLE

MECH. PENTHOUSE
FIRE PROTECTION PLAN

LIFELINE FIRE PROTECTION
www.lifelinefireprotection.com

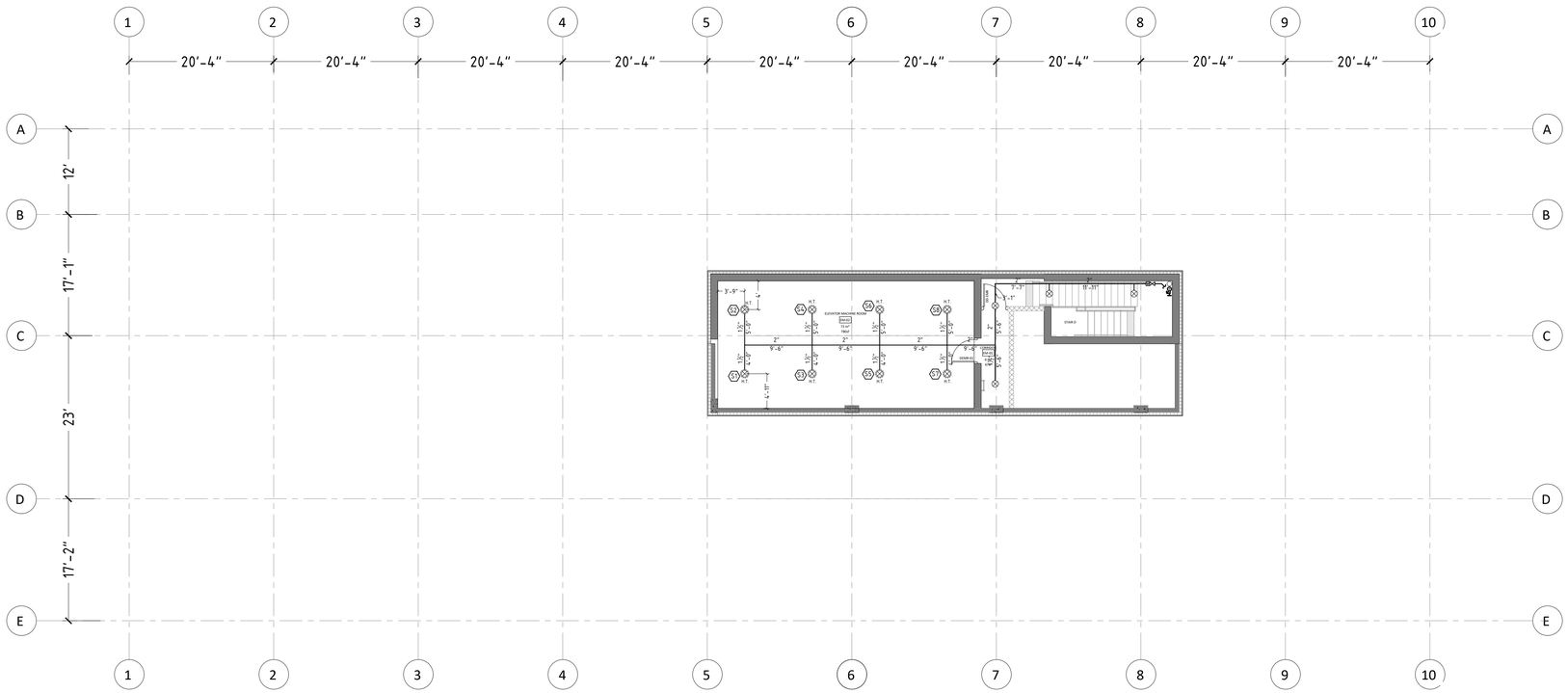
50 Casmir Court, Concord, ON
L4K 4J5
(416)850-9477

PROJECT NORTH
TRUE NORTH

22-0007
PROJECT

SK	RJ
BY	REVIEWED

SP-30



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ISSUED/REVISION RECORD

SPRINKLER HEAD LEGEND

C/W GUARD

S/R=STANDARD RESPONSE
S/C=STANDARD COVERAGE

Q/R=QUICK RESPONSE
E/C=EXTENDED COVERAGE

	THREAD SIZE	K-FACTOR	TEMP RATING	STYLE(MODEL)	RESPONSE
	½"	14	155°F	EXTENDED COVERAGE UPRIGHT	S/R
	½"	5.6	165°F	UPRIGHT S/C	S/R
	½"	5.6	165°F	DRY UPRIGHT SPRINKLER HEAD	Q/R
	½"	5.6	165°F	STANDARD COVERAGE UPRIGHT	Q/R
261	½"	5.6	212°F	STANDARD COVERAGE UPRIGHT	Q/R
	1"	5.6	155°F	FULLY CONCEALED DRY PENDENT S/C	Q/R
	1"	5.6	165°F	DRY PENDENT S/C	Q/R
	½"	11.2	200°F	EXTENDED COVERAGE SIDEWALL	S/R
	½"	5.6	155°F	WINDOW SPRINKLER	Q/R
	½"	5.6	165°F	STANDARD COVERAGE SIDEWALL	Q/R
	½"	5.8	200°F	RESIDENTIAL FULLY CONCEALED PENDENT	Q/R
	½"	5.8	200°F	RESIDENTIAL FULLY CONCEALED SIDEWALL	Q/R
	½"	5.6	165°F	CONCEALED PENDENT S/C	Q/R
	½"	5.6	212°F	RESIDENTIAL FULLY CONCEALED PENDENT S/C	Q/R
	¾"	8.0	286°F	UPRIGHT IN LOCKER ROOM S/C	S/R
	2½" STANDARD FIRE HOSE VALVE C/W THREADED CAP IN STAIRWELL				
	2½" FIRE HOSE VALVE IN CABINET C/W FIRE EXTINGUISHER				

PROJECT

PROPOSED MIXED-USED DEVELOPMENT

ADDRESS:
775-783 Vaughan Rd & 670-680
Northcliffe Blvd, York, ON

DRAWING TITLE

ELEVATOR MACHINE ROOM
FIRE PROTECTION PLAN

LIFELINE FIRE PROTECTION
www.lifelinefireprotection.com

50 Casmir Court, Concord, ON
L4K 4J5
(416)850-9477

PROJECT NORTH
TRUE NORTH

22-0007
PROJECT

SK	RJ
BY	REVIEWED

SP-31