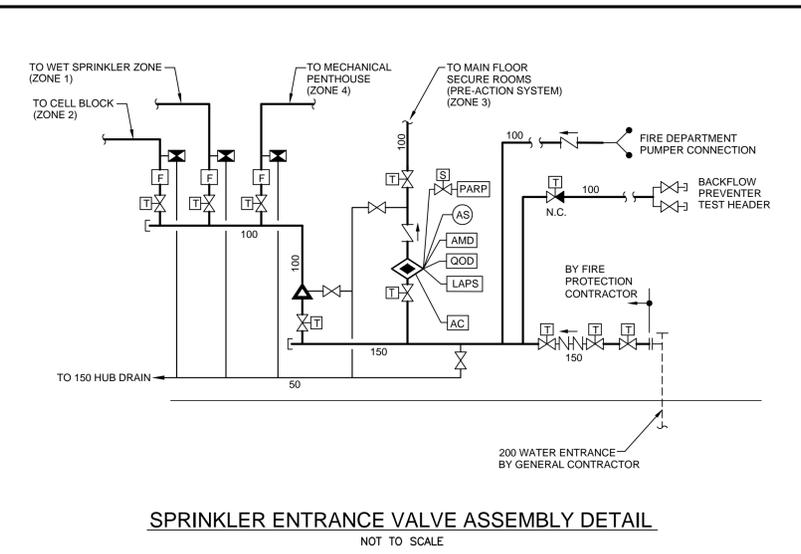


**FLOOR PLAN - MAIN LEVEL**  
SCALE : 1:100



**SPRINKLER ENTRANCE VALVE ASSEMBLY DETAIL**  
NOT TO SCALE

LEGEND			
○	QUICK RESPONSE UPRIGHT SPRINKLER, 68°C (155°F), 15mm (1/2") ORIFICE, K = 80.6 (5.6)	⊠	SOLENOID VALVE (NORMALLY CLOSED)
○	QUICK RESPONSE UPRIGHT SPRINKLER, 93°C (200°F), 15mm (1/2") ORIFICE, K = 80.6 (5.6)	⊠	BACKFLOW PREVENTER
⊗	QUICK RESPONSE UPRIGHT SPRINKLER, 141°C (286°F), 15mm (1/2") ORIFICE, K = 80.6 (5.6)	▲	RISER CHECK VALVE
●	QUICK RESPONSE SEMI-RECESSED PENDENT SPRINKLER, 68°C (155°F), 15mm (1/2") ORIFICE, K = 80.6 (5.6)	◇	PREACTION VALVE c/w TRIM
●	QUICK RESPONSE SEMI-RECESSED PENDENT SPRINKLER, 93°C (200°F), 15mm (1/2") ORIFICE, K = 80.6 (5.6)	⊗	AUXILIARY DRAIN VALVE
●	QUICK RESPONSE INSTITUTIONAL PENDENT SPRINKLER, 68°C (155°F), 15mm (1/2") ORIFICE, K = 80.6 (5.6)	AS	ALARM SWITCH
▲	QUICK RESPONSE HORIZONTAL SIDEWALL SPRINKLER, 68°C (155°F), 15mm (1/2") ORIFICE, K = 80.6 (5.6)	⬡	METAL SPRINKLER GUARD
▲	QUICK RESPONSE HORIZONTAL SIDEWALL SPRINKLER, 141°C (286°F), 15mm (1/2") ORIFICE, K = 80.6 (5.6)	LAPS	LOW AIR PRESSURE SWITCH
▲	STANDARD RESPONSE HORIZONTAL SIDEWALL SPRINKLER, 68°C (155°F), 15mm (1/2") ORIFICE, K = 161.3 (11.2)	QOD	QUICK OPENING DEVICE
●	QUICK RESPONSE DRY PENDENT SPRINKLER, 68°C (155°F), K = 5.6	AMD	AIR MAINTENANCE DEVICE
○	RISER UP	AC	AIR COMPRESSOR
○	TEE DOWN	PARP	PREACTION SYSTEM RELEASE PANEL (BY DIV. 28)
—	PIPE DOWN		FIRE DEPARTMENT PUMPER CONNECTION
—	FLUSHING/CAPPED CONNECTION		BACKFLOW PREVENTER TEST HEADER
F	SPRINKLER FLOW SWITCH	FE	ABC TYPE FIRE EXTINGUISHER MOUNTED ON WALL BRACKET
⊗	REMOTE INSPECTOR'S TEST CONNECTION	FE	ABC TYPE FIRE EXTINGUISHER MOUNTED IN SEMI-RECESSED WALL CABINET
Z	CHECK VALVE	○	CO2 TYPE FIRE EXTINGUISHER MOUNTED ON WALL BRACKET
⊗	PRESSURE GAUGE	⊗	TEST AND DRAIN CONNECTION c/w PRESSURE RELIEF
⊗	CONTROL VALVE c/w TAMPER SWITCH		
N.C.	NORMALLY CLOSED BUTTERFLY VALVE		

HAZARD TABLE		
LOCATION	OCCUPANCY	DESIGN CRITERIA
MAIN BUILDING (WET)	LIGHT HAZARD (GENERAL OFFICES, CORRIDORS, DETENTION CELLS)	4.1 L/min/m <sup>2</sup> OVER A MINIMUM 83.6 m <sup>2</sup> (900 ft <sup>2</sup> ) PLUS 378 L/min HOSE ALLOWANCE
	ORDINARY HAZARD GROUP 1 (MECHANICAL ROOMS, GARAGE BAY, ELECTRICAL ROOMS, STORAGE ROOMS)	6.1 L/min/m <sup>2</sup> OVER A MINIMUM 103 m <sup>2</sup> (1103 ft <sup>2</sup> ) PLUS 946 L/min HOSE ALLOWANCE
MAIN BUILDING (PRE-ACTION)	ORDINARY HAZARD GROUP 2 (SECURE ROOMS)	8.1 L/min/m <sup>2</sup> OVER THE ENTIRE AREA OF THE ROOM PLUS 946 L/min HOSE ALLOWANCE

- KEYNOTES**
- ROUTE 25 REMOTE INSPECTOR'S TEST PIPE DOWN IN WALL CAVITY TO EXTERIOR (500mm ABOVE GRADE) c/w 600x600 CONCRETE PATIO PAVER ON GRADE AT DRAIN LOCATION. SEAL WALL PENETRATION WEATHER TIGHT.
  - ROUTE SPRINKLER MAIN THRU CEILING SPACE. COORDINATE ROUTING WITH PLUMBING PIPING, DUCTWORK, LIGHTING ON SITE TO AVOID CONFLICTS.
  - NO OPTIONS TO SPECIFIED INSTITUTIONAL SPRINKLER HEADS ALLOWED.
  - ROUTE SPRINKLER PIPING THRU CORRIDOR HIGH CEILING SPACE. COORDINATE ROUTING WITH DUCTWORK, ELECTRICAL, ETC. ON SITE TO AVOID CONFLICTS. SEE PENTHOUSE PLAN FOR PIPING CONTINUATION.
  - REFER TO MAIN FLOOR PLAN ON THIS DRAWING FOR PIPING CONTINUATION.
  - REFER TO PENTHOUSE PLAN ON THIS DRAWING FOR PIPING CONTINUATION.
  - LOCATE DEFLECTOR BETWEEN 150mm AND 300mm BELOW CEILING.
  - UP TO MECHANICAL ROOM 200 ABOVE. REFER TO PENTHOUSE PLAN ON THIS DRAWING.

PIPE SIZE TABLE - LIGHT HAZARD			
No. OF HEADS (BRANCH LINE)	PIPE SIZE	CROSSMAIN SIZE	FEED MAIN SIZE
1 - 2	25mm	75mm	75mm
3	32mm		
4	38mm		
REMAINDER	50mm		

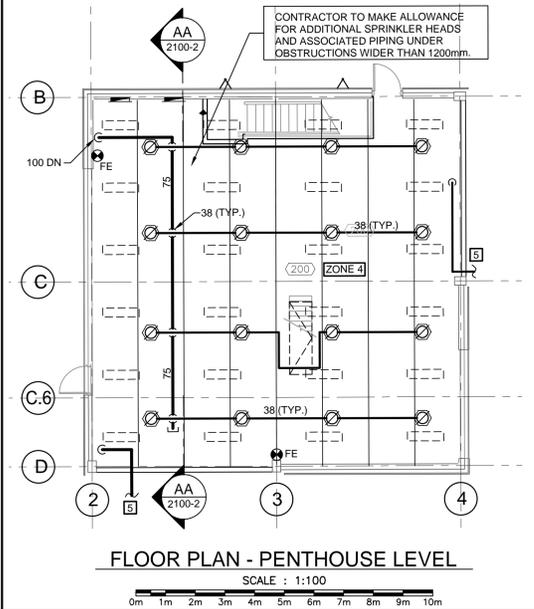
NOTES: - PIPE SIZES ARE TO BE AS STATED ABOVE UNLESS NOTED OTHERWISE.

PIPE SIZE TABLE ORDINARY HAZARD		
BRANCH LINE SIZE	CROSSMAIN SIZE	FEED MAIN SIZE
38mm	75mm	100mm

NOTES: - PIPE SIZES ARE TO BE AS STATED ABOVE UNLESS NOTED OTHERWISE.

PIPE SIZE TABLE SECURE ROOMS		
BRANCH LINE SIZE	CROSSMAIN SIZE	FEED MAIN SIZE
25mm	75mm	100mm

NOTES: - PIPE SIZES ARE TO BE AS STATED ABOVE UNLESS NOTED OTHERWISE.



**FLOOR PLAN - PENTHOUSE LEVEL**  
SCALE : 1:100

Public Works and Government Services Canada / Travaux Publics et Services gouvernementaux Canada

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exp Project No. FRE-00214763-A5

BUILDINGS - EARTH & ENVIRONMENT  
ENERGY - INDUSTRIAL  
INFRASTRUCTURE - SUSTAINABILITY

CONST. NORTH

KEY PLAN  
SCALE - NTS

**GENERAL NOTES**

- SPRINKLER HEADS INSTALLED 300mm OR LESS FROM ELECTRIC RADIANT CEILING PANELS TO BE INTERMEDIATE TEMPERATURE RATING OF 93°C (200°F).
- REFER TO REFERENCE DRAWING 601-4 FOR REFLECTED CEILING PLAN.

REGISTERED PROFESSIONAL ENGINEER  
#M5761  
Robert J. MacQuarrie  
February 17, 2016  
Ingénieur Immobilier

0	RELEASED FOR CONSTRUCTION	01/29/2016
revisions		date
project	NEW G.O.C.B SAINT-LEONARD NEW BRUNSWICK	
drawing	design	
designed RDD	conçu	
date JANUARY 29, 2016		
drown RDD	dessiné	
date JANUARY 29, 2016		
approved DAG	approuvé	
date FEBRUARY 17, 2016		
Tender	Soumission	
PWSSC Project Manager	Administrateur de projets TPSSC	
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