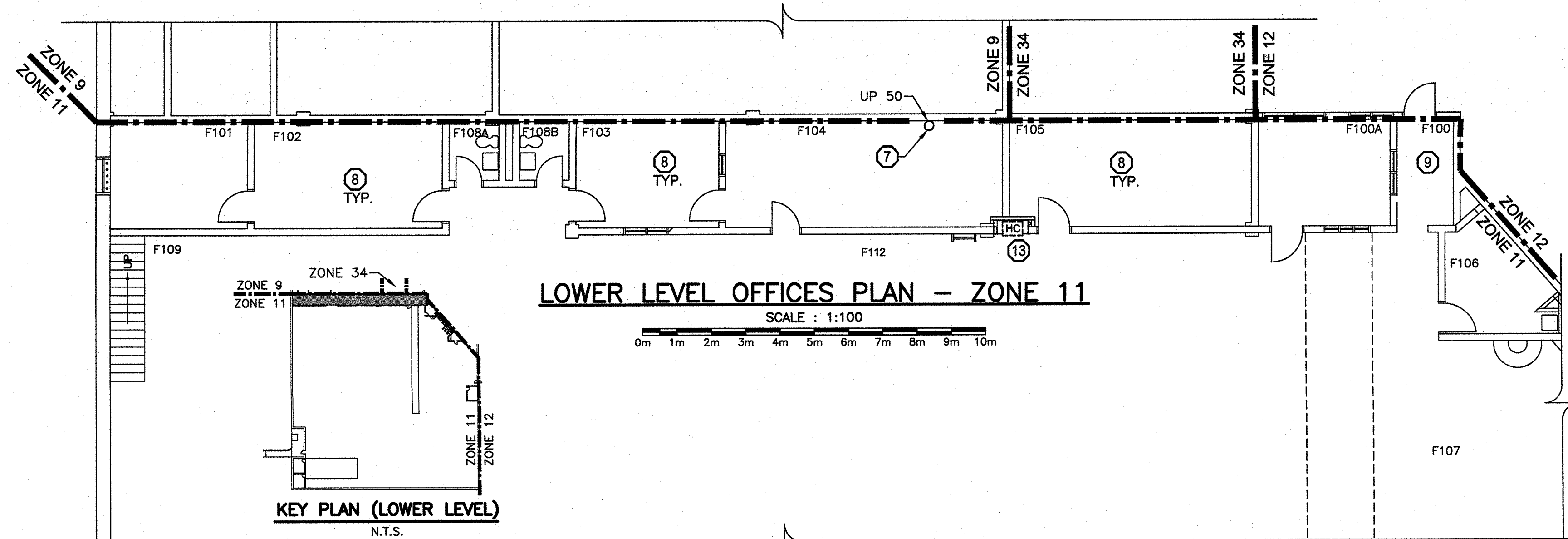
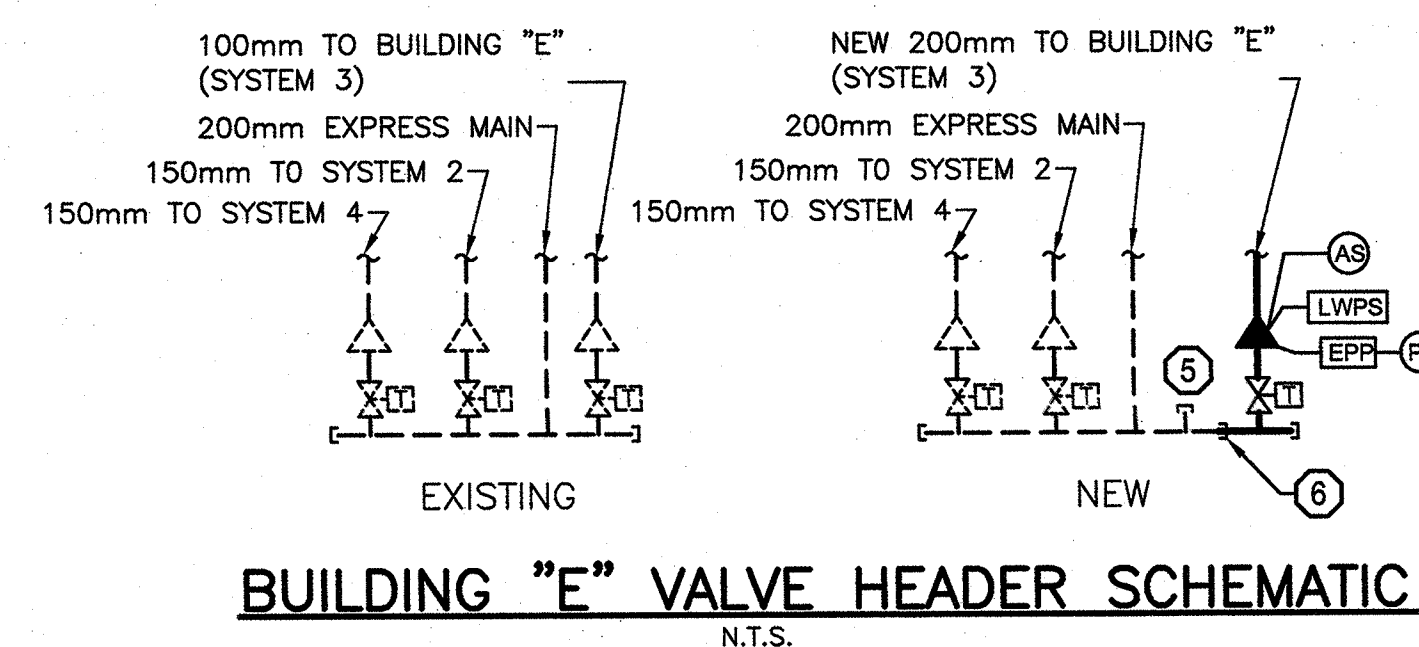
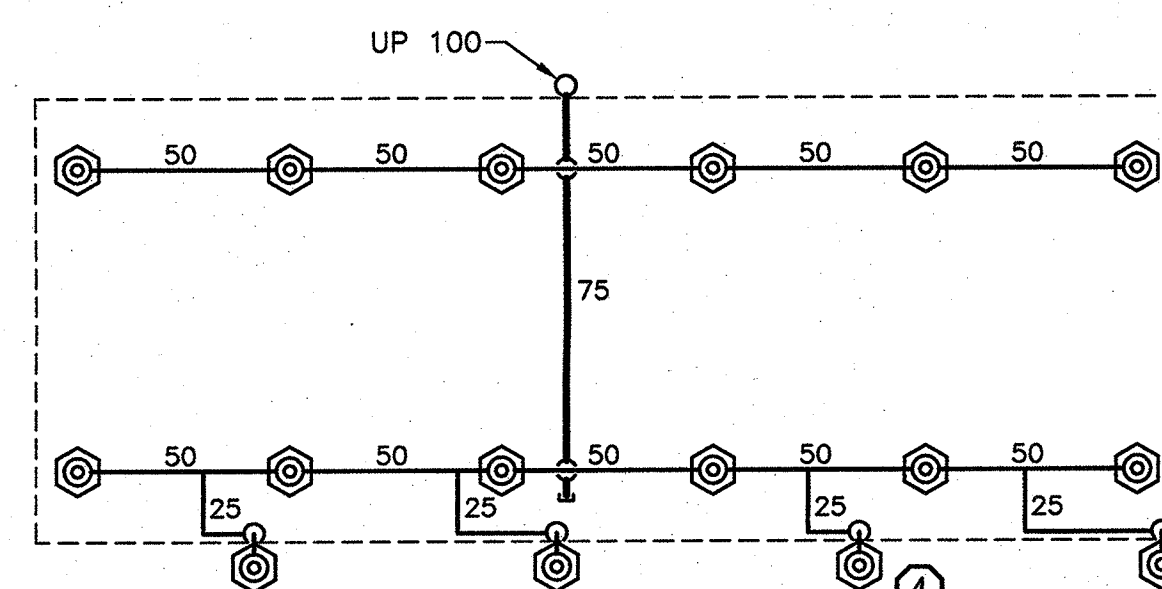


HAZARD TABLE		
LOCATION	OCCUPANCY	DESIGN CRITERIA
OFFICES, WASHROOMS 108A & 108B, ROOMS F106, F116, F123 AND CONCEALED SPACE OF ROOM F122A	LIGHT HAZARD	4.1 L/min/m ² OVER 83.6 m ² 379 L/min HOSE DEMAND
ROOMS F120 AND F121	ORDINARY HAZARD GROUP 1	6.1 L/min/m ² OVER ENTIRE AREA 946 L/min HOSE DEMAND
ROOM F122A LOADING DOCK	ORDINARY HAZARD GROUP 2 (IDLE WOOD PALLET STORAGE STORED UP TO 1.8m HIGH AND AT LEAST 2.4m BETWEEN STACKED PILES)	8.1 L/min/m ² OVER ENTIRE AREA (APPROXIMATELY 26m ²) 946 L/min HOSE DEMAND BASED ON THE FOLLOWING FROM THE 2013 EDITION OF NFPA 13: - PARAGRAPH 12.12.1.2 (4), - IDLE WOOD PALLET PILE(S) STORED UP TO A MAXIMUM OF 1.8m HIGH, - MAXIMUM 4 STACKS PER PALLET PILE, - IDLE WOOD PALLET PILES SEPARATED FROM OTHER IDLE WOOD PALLET PILES BY AT LEAST 2.4m OF CLEAR SPACE.
MATTRESS PRODUCTION AND STORAGE (INCLUDING MEZZANINE)	GROUP "A" PLASTIC STORAGE (STORED UP TO 3.6m HIGH)	24.4 L/min/m ² OVER 232 m ² 1900 L/min HOSE DEMAND (2 HOUR DURATION) BASED ON THE FOLLOWING FROM THE 2013 EDITION OF NFPA 13: - FIGURE 15.2.2, GROUP A PLASTICS, EXPANDED, EXPOSED, SOLID PILES, UNSTABLE, - TABLE 15.2.6 (b), COLUMN C, - STORAGE HEIGHT NOT EXCEEDING 3.6m HIGH, - CEILING HEIGHT OF APPROXIMATELY 7m.



LOWER LEVEL WATCH STATION PLAN - ZONE 11

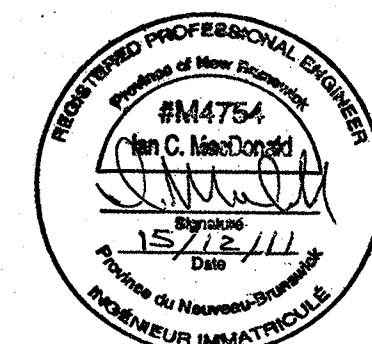
SCALE : 1:100
0m 1m 2m 3m 4m 5m 6m 7m 8m 9m 10m



LEGEND	
○	STANDARD RESPONSE UPRIGHT SPRINKLER, TEMPERATURE 68°C, K = 80.6
⊙	STANDARD RESPONSE UPRIGHT SPRINKLER, TEMPERATURE 93°C, K = 80.6
⊗	STANDARD RESPONSE UPRIGHT SPRINKLER, TEMPERATURE 141°C, K = 241.9
●	STANDARD RESPONSE INSTITUTIONAL PENDENT SPRINKLER, TEMPERATURE 68°C, K = 80.6
⬡	METAL SPRINKLER GUARD
○	RISER UP
—	TEE DOWN
—	PIPE DOWN
—	FLUSHING CONNECTION
⊠	CONTROL VALVE c/w TAMPER SWITCH
▲	ALARM VALVE
⬢	EXCESS PRESSURE PUMP
⊕	PRESSURE SWITCH
⊖	ALARM SWITCH
⬢	LOW WATER PRESSURE SWITCH
⬢	FLOW SWITCH
⬢	INSPECTOR'S TEST CONNECTION c/w VALVE AND PRESSURE RELIEF
⬢	FIRE HYDRANT
⬢	CEILING MOUNTED UNIT HEATER
⬢	HOSE CABINET
—	APPROXIMATE CEILING HEIGHT

LEGEND NOTE:
1- SPRINKLER SYSTEM DEVICES AND PIPING SHOWN
DASHED ARE EXISTING AND TO REMAIN, UNLESS NOTED OTHERWISE.

DRAWING NOTES	
1	CAP EXISTING PIPE AND SEAL PENETRATION THROUGH WALL WITH LISTED FIRE STOPPING ASSEMBLY. FIRE RESISTANCE RATING TO MATCH EXISTING WALL.
2	CONNECT NEW PIPING TO EXISTING PIPING SUPPLYING SPRINKLERS BELOW WATCH STATION.
3	EXISTING PIPING AND SPRINKLERS FOR WATCH STATION ZONE TO REMAIN. THE MEZZANINE PORTION OF THE SYSTEM IS TO BE REMOVED. CONNECT EXISTING ZONE VALVE ASSEMBLY TO WATCH STATION PIPING VIA NEW 50mm PIPING.
4	PROVIDE SPRINKLER PROTECTION BELOW DUCTS THAT ARE MORE THAN 1220mm IN WIDTH.
5	DEMOLISH EXISTING 100mm ALARM VALVE SERVING BUILDING "E" AND CAP AS SHOWN.
6	REVISE EXISTING HEADER AS REQUIRED FOR CONNECTION OF NEW BUILDING "E" SYSTEM 3 RISER.
7	PROVIDE NEW 50mm PIPING DOWN FROM NEW 200mm SYSTEM 3 FEED MAIN TO EXISTING OFFICE AREA SPRINKLER PIPING.
8	EXISTING PIPING TO SPRINKLERS IN OFFICES TO REMAIN. RECONNECT TO NEW CEILING SPRINKLER SYSTEM PIPING ABOVE. REPLACE EXISTING SPRINKLERS WITHIN THESE ROOMS WITH NEW QUICK RESPONSE SPRINKLERS.
9	REPLACE EXISTING SPRINKLER IN ENTRANCE WITH NEW STANDARD RESPONSE (K=80.6) INSTITUTIONAL PENDENT SPRINKLER.
10	PROVIDE SPRINKLER PROTECTION BELOW OVERHEAD DOOR.
11	EXISTING PIPING TO SPRINKLER IN THIS ROOM TO REMAIN. REPLACE EXISTING SPRINKLER WITH NEW STANDARD RESPONSE (K=80.6) INSTITUTIONAL PENDENT SPRINKLER.
12	NEW PIPING DOWN TO NEW STANDARD RESPONSE (K=115.2) DRY PENDENT SPRINKLERS (COMPLETE WITH SPRINKLER GUARDS) PROTECTING LOADING BAY CANOPY.
13	EXISTING HOSE CABINETS AND ASSOCIATED PIPING AND EQUIPMENT TO REMAIN.
14	PROVIDE POWER TO NEW EXCESS PRESSURE PUMP. CONNECT NEW SPRINKLER MONITORING DEVICES TO THE EXISTING FIRE ALARM SYSTEM.
15	REPLACE EXISTING SPRINKLERS UNDER WATCH STATION WITH NEW K 80.6 STANDARD RESPONSE INSTITUTIONAL PENDENT SPRINKLERS. PROVIDE DEEP CUP ESCUTCHEONS AS REQUIRED.
16	EXISTING SPRINKLER SYSTEM INCLUDING MAINS, BRANCH LINES AND SPRINKLERS IN THE MATTRESS PRODUCTION AREA AND MEZZANINE SHALL BE DEMOLISHED AND REMOVED FROM SITE.
17	COMPLETE CUTTING, PATCHING AND PAINTING AS REQUIRED FOR THE NEW 200mm FEED MAIN. USE EXISTING MAIN LOCATIONS WHEREVER POSSIBLE TO REDUCE CUTTING AND PATCHING.
18	PROVIDE A NEW 200mm ZONE VALVE ASSEMBLY, INCLUDING A SUPERVISED CONTROL VALVE, FLOW SWITCH AND INSPECTOR'S TEST CONNECTION, FOR ZONE 11 SPRINKLER SYSTEM.
19	CONNECT EXISTING 65mm PIPE TO NEW 200mm FEED MAIN AT THIS LOCATION.
20	PROVIDE STANDARD RESPONSE (K=80.6) SPRINKLERS IN THE CONCEALED SPACES ABOVE LOADING BAY CANOPY.



1	ISSUED FOR TENDER	DEC. 11 2015
0	ISSUED FOR CLIENT REVIEW	SEP. 18 2015
revisions		date
project	SPRINKLER SYSTEM UPGRADE CORCAN OPERATIONS BUILDING "E" ATLANTIC INSTITUTION RENOUS, NB	
drawing		desain

**SPRINKLER SYSTEM
SITE PLAN AND
PARTIAL PLANS**

designed LD/RF	corcu
date DEC., 2015	
drawn HR	desain
date DEC., 2015	
approved IM	apprové
date DEC., 2015	
Tender R. J. Bartlett	2015.12.21
PWGC Project Manager	Administrateur de projets TPSC
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