

HANGER POSITIONING RULES:

1. MINIMUM NUMBER OF HANGERS SHALL NOT BE LESS THAN ONE HANGER FOR EACH SECTION OF PIPE.

2. THE DISTANCE BETWEEN A HANGER & CENTERLINE OF AN UPRIGHT SPRINKLER HEAD SHALL NOT BE LESS THAN 3".

3. THE UNSUPPORTED LENGTH BETWEEN THE END SPRINKLER & THE LAST HANGER ON THE LINE SHALL NOT BE GREATER THAN 36" FOR 1" PIPE & 60" FOR 1½" OR LARGER PIPE.

4. THE UNSUPPORTED LENGTH BETWEEN THE END SPRINKLER IN PENDENT POSITION OR DROP NIPPLE & THE LAST HANGER ON THE BRANCH LINE SHALL NOT BE GREATER THAN 12".

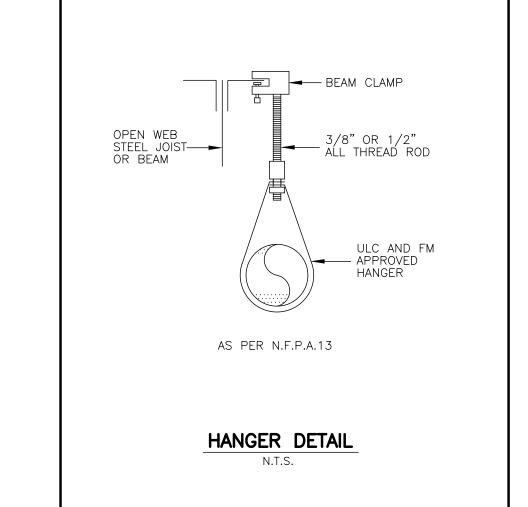
5. THE CUMULATIVE HORIZONTAL LENGTH OF AN UNSUPPORTED ARM OVER TO AN UPRIGHT SPRINKLER SHALL NOT EXCEED 24"OR 12" TO PENDENT SPRINKLER.

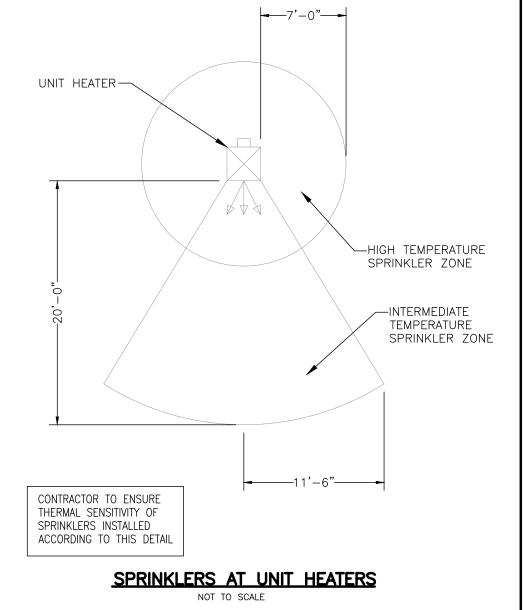
SPRINKLER.

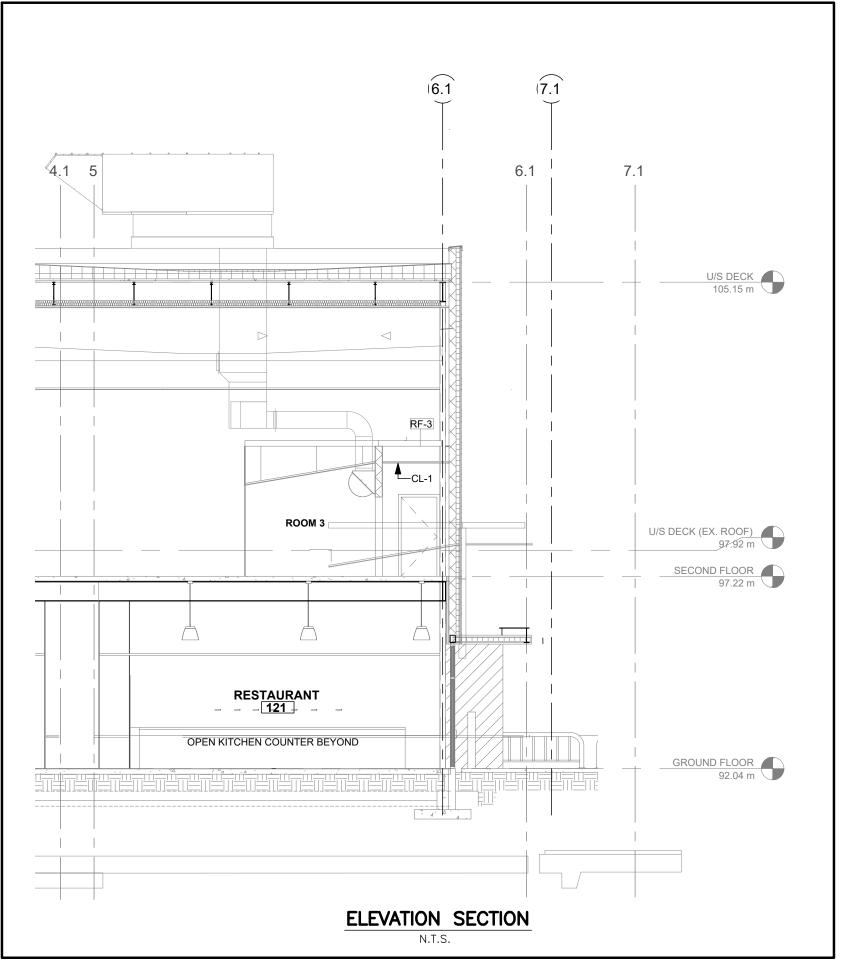
6. HANGERS FOR MAINS SHALL BE IN ACCORDANCE WITH TABLE 9.2.2.1 (a),
BETWEEN EACH BRANCH LINE, OR ON EACH SECTION OF PIPE, WHICHEVER IS
LESSER DIMENSION.

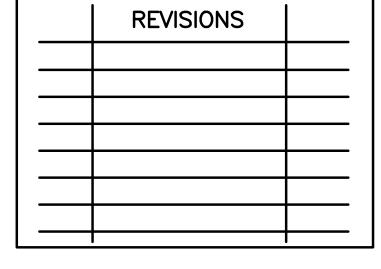
7. RISERS SHALL BE SUPPORTED BY RISER CLAMPS OR BY HANGERS LOCATED
ON THE HORIZONTAL CONNECTIONS WITHIN 24" OF THE CENTER LINE OF THE

HANGERS NOT SHOWN FOR CLARITY PURPOSES









NOTES

-- This drawing, associated calculations and specifications are the property of Bruce fire protection Ltd. and must be returned at the completion of the work or upon request.

-- Dimensions take precedent over scale.

-- The sprinkler system is to be installed as per n.f.p.a. and building code standards.

-- Contractor to include for offsets in branch lines and mains where required.

-- All materials to be u.l.c. Listed and approved by local authorities.

-- Contractor to ensure that proper heat is provided in all areas with wet piping, the subject to freezing temperatures. Report to engineer is discrepancy is discovered.

-- All piping measurements are given as center line to center line dimensions.

-- "Rn" denotes riser nipple.

"Dn" denotes down.

-- All supervised valves, flow (pressure) switches and low pressure monitoring switches to be connected to fire alarm system. (if f.a.s. is installed)

SWIICHES TO BE CONNECTED TO FIRE ALARM SYSTEM. (IF F.A.S. IS INSTALLED) -- CONTRACTOR TO VISIT SITE TO VERIFY ALL DIMENSIONS AND CONDITIONS AS INDICATED ON DRAWINGS. ANY MAJOR DISCREPANCIES TO BE REPORTED TO BRUCE FIRE PROTECTION PRIOR TO FABRICATION AND INSTALLATION -- CONTRACTOR TO ENSURE THAT PERMIT FOR INSTALLATION HAVE BEEN RECEIVED BEFORE COMMENCING ANY WORK ON SITE -- BRUCE FIRE PROTECTION LTD.'S LIABILITY, DIRECT OR INDIRECT, IS LIMITED TO THE FEE PAID TO IT.

THE UNDERSIGNED HAS REVIEWED AND TAKES RESPONSIBILITY FOR THE DESIGN, AND HAS THE QUALIFICATIONS AND MEETS THE REQUIREMENTS SET OUT IN THE ONTARIO BUILDING CODE TO DESIGN THE WORK SHOWN ON THE ATTACHED DOCUMENT. QUALIFICATION 'INFORMATION REQUIRED UNLESS DESIGN IS EXEMPT UNDER 2.17.5.1 OF THE ONTARIO BUILDING CODE. M. MATTHEW, P.Eng. REGISTRATION INFORMATION REQUIRED UNLESS DESIGN IS EXEMPT UNDER 2.17.5.1 OF THE ONTARIO BUILDING CODE. BRUCE FIRE PROTECTION LTD. 36466

DESIGN CRITERIA

DESIGN AREA #1: SPRINKLER SYSTEM DESIGNED FOR LIGHT HAZARD OCCUPANCY WITH DISCHARGE DENSITY 0.1 GPM/SQ.FT OVER 900 SQ.FT AREA PLUS 100 GPM FOR HOSES AS PER NFPA 13 (2019)

DESIGN AREA #2: SPRINKLER SYSTEM DESIGNED FOR ORDINARY HAZARD GR.1 OCCUPANCY WITH DENSITY OF 0.15 GPM/SQ.FT OVER ENTIRE AREA PLUS 250 GPM FOR HOSES AS PER NFPA 13 (2019)

DESIGN AREA #3: SPRINKLER SYSTEM DESIGNED FOR ORDINARY HAZARD GR.2 OCCUPANCY WITH DENSITY OF 0.2 GPM/SQ.FT OVER DESIGN AREA 900 SQ.FT PLUS 250 GPM FOR HOSES AS PER NFPA 13 (2019)

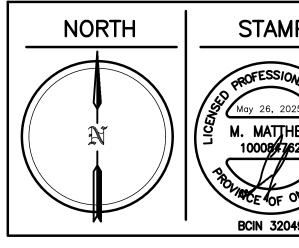
WATER SUPPLY INFORMATION
Static Pressure: 85 psi
Res. Pressure 81.5 psi @ 2222.4 gpm
Flow Test Date: May 22, 2025

	Sprinkler Head Schedule						
Symbol	Count	Thread	K-Factor	Description			
•	149	1/2"	5.6	PENDENT 155°F, QR			
0	106	1/2"	5.6	UPRIGHT 155°F, QR			
8	3	1/2"	5.6	DRY PENDENT 155°F			
△ I×	2	1/2"	5.6	SIDEWALL 268°F C/W GUARD			
	260 = Total Number of Heads (BOTH SHEETS)						

FIREARMS OUTLET CANADA 725 WESTNEY RD. S.

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ONTARIO





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PROJECT

FIREARMS OUTLET CANADA 725 WESTNEY RD. S.

ONTARIO

DWG TITLE

PROPOSED GROUND FLOOR SPRINKLER SYSTEM LAYOUT

DATE		PROJECT NO.
	MAY 2025	
SCALE	1/8" = 1'-0"	25-5143

DWN BY VERIFIED BY

IM MM

ISSUED FOR REVISION NO.

OF 2