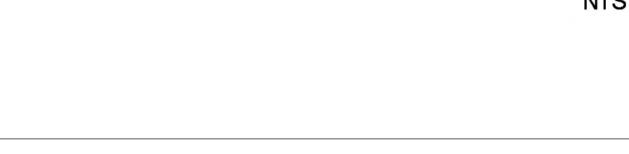
NEWFOUND GOLD BAIRD AVE, GANDER, NL







VICINITY MAP NTS

h: (709	9) 592-20	029		& P Sprinkl elivery, Chapel A		B 1L0 Fax	: (709)592-2019
				WATER SUPPL	Y TEST		
ddress	: <u>B</u>	aird Ave	D GOLD		•	: Mike Power DEC 8, 2021	
YSTEN ize of N ource H	M DATA Main: Reliable:	12" X	Dead End:	T	wo Ways:	L	oop: X
tatic pr	of test	F1 65	ow: <u>Hydrar</u> Tin	nt 52 nt 54 ne: 10:00	A.M	2:30 P.M.	
		Orifice Size (in.)	Pitot Reading (psig)	Equivalent Flow gpm (U.S.)	Total Flow gpm (U.S.)	Residual Pressure (psig)	Comments
1	1	2.5	38	1034	1034	40	

	Z FLOW	
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		Questye trasse
	New foundland, tiRailway	
Femily Dante Clinic Time	A contraction of the contraction	DMG Constitute Emited
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GENERAL NOTES

ZONE 3: DRY SYSTEM : ATTIC

- OUR WORK CONSISTS OF INSTALLING A NEW SPRINKLER SYSTEM CONSISTING OF 3 ZONES FOR PROTECTION THROUGHOUT THE BUILDING AS SHOWN ON THE DRAWINGS.
 ZONE 1: WET SYSTEM: LEVEL 1
 ZONE 2: WET SYSTEM: LEVEL 2
- 2. OUR WORK STARTS IN THE MECHANICAL ROOM OFF THE NEW 6" CLDI STUB UP. A NEW 6" HEADER WILL BE INSTALLED WITH A NEW 6" DCVA BACKFLOW PREVENTER
- 3. THE TOWN WATER SUPPLY WILL BE PROTECTED WITH A DOUBLE CHECK TYPE BACKFLOW PREVENTER.
- 4. ALL WORK AND MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) CODES (NFPA 13 2019), AND THE CANADIAN BUILDING CODE.
- 5. SPRINKLER SYSTEMS AND HYDRAULIC REQUIREMENTS ARE PER NFPA 13 (2019), CURRENT CANADIAN BUILDING AND FIRE CODE, AND THE AUTHORITIES HAVING JURISDICTIONS. (SEE HYDRAULIC NOTES)
- 6. THE REMOTE AREAS SHOWN ON THE PLANS REPRESENT THE HYDRAULICALLY MOST DEMANDING REMOTE AREA OF THE BUILDING. (THIS MAY NOT ALWAYS BE THE PHYSICALLY MOST REMOTE LOCATION OF THE BUILDING).
- 7. SEE THE SPRINKLER LEGEND FOR SPRINKLER CHARACTERISTICS, FINISHES, AND TEMPERATURE RATINGS. ALL SPRINKLERS SHALL CONFORM TO THIS LEGEND UNLESS SPECIFICALLY NOTED ON THE PLANS.
- 8. QUICK RESPONSE SEMI-RECESSED CHROME PENDENT SPRINKLERS ARE TO BE INSTALLED AS NOTED IN FINISHED CEILINGS WHERE PIPE IS CONCEALED QUICK RESPONSE BRASS UPRIGHT SPRINKLERS WILL BE INSTALLED IN EXPOSED AREAS.
- 10. WIRE GUARDS SHALL BE PROVIDED FOR SPRINKLERS IN AREAS SUSCEPTIBLE TO DAMAGE AND SPRINKLERS LOWER THAN 7 FT AFF
- 11. SPARE SPRINKLERS SHALL BE PROVIDED IN ACCORDANCE WITH NFPA ADJACENT TO THE MAIN RISER. AT LEAST ONE SPRINKLER OF ALL TYPES IN THE BUILDING SHALL BE FURNISHED FOR THE CABINET(S) (NOT INCLUDING DRY TYPE SPRINKLERS WHICH NO SPARES WILL BE PROVIDED). A WRENCH FOR ALL TYPES OF SPRINKLERS SHALL ALSO BE FURNISHED. **THESE SPRINKLER WRENCHES ARE FOR USE ONLY ON THE SPRINKLERS FOR WHICH THEY ARE MADE AND FOR NO OTHER USE. ANY OTHER TOOL (INCLUDING, BUT NOT LIMITED TO, "CHANNEL-LOCKS") SHALL NOT BE USED TO REMOVE OR INSTALL SPRINKLERS.**
- 12. ALL HANGERS SHALL BE SPACED ACCORDING TO NFPA 13 (2019) CHAPTER 17
- 13. PIPING IS TO BE HYDROSTATICALLY TESTED IN ACCORDANCE WITH NFPA. 13 FOR 2 HOURS AT 200 PSI (OR 50 PSI IN EXCESS OF SYSTEM WORKING PRESSURE, WHICHEVER IS GREATER) AT THE SYSTEM RISER. ALL TESTING MUST BE WITNESSED AND SIGNED BY AN AUTHORIZED REPRESENTATIVE OF THE OWNER.
- 15. ANY TAMPER, PRESSURE, AND WATER FLOW SWITCHES AS WELL AS ANY ANNUNCIATION DEVICES WILL BE PROVIDED AND INSTALLED BY THIS CONTRACTOR BUT THE WIRING IS TO BE DONE BY THE ELECTRICAL CONTRACTOR.
- 16. FIRE DEPARTMENT CONNECTIONS SHALL BE BRASS FINISH 4" x 2 1/2" x 2 1/2" EXPOSED MOUNTED STYLE AT 12"-35" ABOVE GRADE.
- 17. NO COMBUSTIBLE CONSTRUCTION OR STORAGE IS ALLOWED ABOVE THE CEILING, BELOW FLOORS, OR IN ANY CONCEALED SPACE UNLESS PROTECTED BY SPRINKLERS.
- 18. SEISMIC PROVISIONS OF NFPA 13 ARE NOT REQUIRED AS THIS IS NOT A SEISMIC AREA AND IS NOT INCLUDED IN THIS SCOPE OF WORK.
- 19. WHERE SPRINKLERS DO NOT MEET THE MINIMUM DISTANCE SPACING, NON-COMBUSTIBLE BAFFLES SHALL BE INSTALLED IN BETWEEN.
 20. TEST/DRAIN CONNECTION TO DISCHARGE TO A SUITABLE LOCATION (FLOOR DRAIN CAPABLE OF HANDLING DRAIN VOLUME OR TO THE OUTSIDE OF THE BUILDING).
- 21. FIRESTOPPING SHALL BE PROVIDED ON ALL PIPE PENETRATIONS THROUGH FIRE RATED ASSEMBLIES.
- 22. SLEEVING FOR PIPING SHALL NOT BE REQUIRED WHERE HOLES ARE DRY CORED AND BARE A SMOOTH BORE.

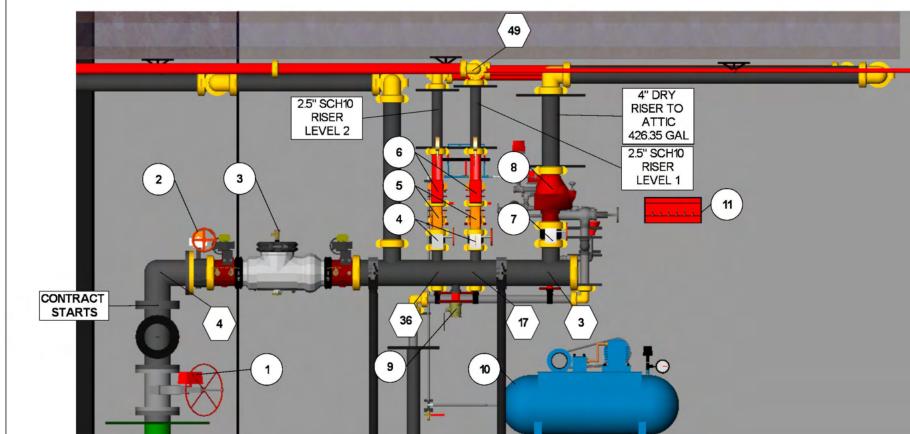
SYSTEM PIPING AND FITTINGS:

WET, BLACK STEEL TO NFPA 13 REQUIREMENTS, C=120
WET, CPVC TO NFPA 13 REQUIREMENTS, C=150
DRY, GALVANIZED STEEL TO NFPA 13 REQUIREMENTS, C=100
UNDEGROUND PVC TO NFPA 13 REQUIREMENTS, C=150
UNDEGROUND CLDI TO NFPA 13 REQUIREMENTS, C=140

1 1/4" - 6" SCHEDULE 10, GROOVED FITTINGS

SCHEDULE 40, THREADED FITTINGS CPVC, CPVC FITTINGS

TOTAL SPRINKLERS THIS PROJECT: 441



Maximum Water Supply Pressure psi	System Air Pressure Range psi
20	10
60	15 - 23
80	20 - 28
100	25 - 33
120	30 - 38
145	35 - 43
165	40 - 48
185	45 - 53
205	50 - 58
225	55 - 63
250	60 - 68

REQUIREMENTS

-l I	Flow	1034 GPM	
4	8.2.6.7 System Air I	ressure.	
		n air pressure shall be maintai	ned in accordan
		et furnished with the dry pipe	
1 1		of the calculated trip pressure	
1	based on the highe	st normal water pressure of t	ne system supp
1	TYCO DPV	/-1 DRY PIPE VALVE:	7
- I		OS BACK 55 PSI OF WATER	

Supply Flow Test Data

Static Pressure

1 PSI OF AIR HOLDS BACK 5.5 PSI OF WATER

CALCULATED TRIP PRESSURE BASED ON 65 PSI STATIC:
65 PSI / 5.5 PSI = 11.8 PSI

SPRINKLER ROOM	SECT	TION			
SCALE 1/2" = 1'-0"	1/2	0	1	2	

		SPRINKLER ROOM PART LIST	
Key Note	Size	Description	Quantity
1	NA	TAMPER SWITCH	1
2	6	BUTTERFLY VALVE C/W T.SWITCH	1
3	6	ZURN 350 ASTA DBL CHK ASSY	1
4	2.5	BUTTERFLY VALVE C/W T.SWITCH	2
5	2.5	CHECK VALVE	2
6	2.5	TYCO RM-1 C/W WFS (4.2K TEST ORIFICE C/W PRV=175PSI)	2
7	4	BUTTERFLY VALVE C/W T.SWITCH	1
8	4	Tyco DPV-1	1
9	2	BALL VALVE	1
10	1HP	FS-0120 OMEGA TANKMOUNT AIR COMPRESSOR	1
11	NA	12 SPRINKLER CABINET	1

	SPRINKLER ZONING LEGEND	
DEVICE LOCATION	NAME	ALARM/SUPERVISORY
LEVEL 1 MECH ROOM	BUILDING MAIN CONTROL VALVE	SUPERVISORY
LEVEL 1 MECH ROOM	SPRINKLER SYSTEM MAIN CONTROL VALVE	SUPERVISORY
LEVEL 1 MECH ROOM	BACKFLOW CONTROL VALVE 1	SUPERVISORY
LEVEL 1 MECH ROOM	BACKFLOW CONTROL VALVE 2	SUPERVISORY
LEVEL 1 MECH ROOM	LEVEL 1 CONTROL VALVE	SUPERVISORY
LEVEL 1 MECH ROOM	LEVEL 1 FLOW SWITCH	ALARM
LEVEL 1 MECH ROOM	LEVEL 2 CONTROL VALVE	SUPERVISORY
LEVEL 1 MECH ROOM	LEVEL 2 FLOW SWITCH	ALARM
LEVEL 1 MECH ROOM	ATTIC CONTROL VALVE	SUPERVISORY
LEVEL 1 MECH ROOM	ATTIC ALARM PRESSURE SWITCH (PS-10)	ALARM
LEVEL 1 MECH ROOM	ATTIC LOW PRESSURE SWITCH (PS-40)	SUPERVISORY
LEVEL 1 MECH ROOM	AIR COMPRESSOR PRESSURE SWITCH	POWER ONLY

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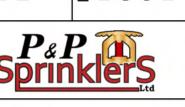
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l(s)	Year							

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I.	DIAMETER / LENGTH	×	NFPA 13, 2019	
	PIPE HANGER		NFPA 13R, 2019	
	CHOVE		NFPA 13D, 2019	
	DEISIMIC BRACING		NFPA 14, 2019	
	FOUR-WAY BRACE		NFPA 20, 2019	
_	HYDRALII IC NODE		NFPA 22, 2019	
			NFPA 24, 2019	
	RISER UP / DOWN		NFPA 25, 2019	
7	SECTION CALL-OUT		NFPA 101, 2019	

		NEW SIEEL PIPE	×-×	DIAMEL
	i	EXISTING STEEL PIPE	1	PIPE HA
		NEW CPVC PIPE	1+	SEISMIC
T	ŀ	EXISTING CPVC PIPE	4	FOUR-M
	*X-X FF	*X*-X FF © EL. FINISHED FLOOR	•	HYDRAL
	⊕X'-XTS	*X'-XTS © EL. TOP OF STEEL	(RISER UI
			•	

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NEWFOUND GOLD
BAIRD AVE, GANDER, N



SITE PLAN NOTES & DETAILS

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