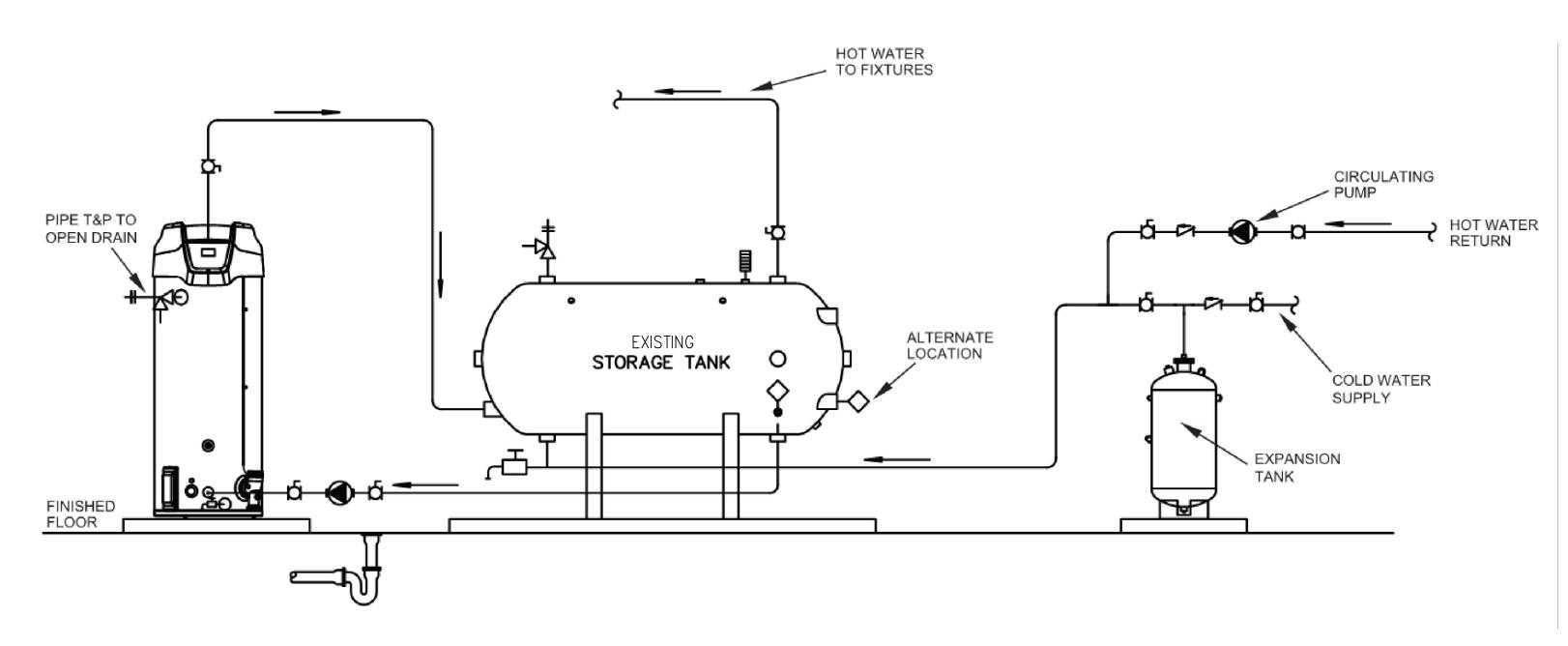
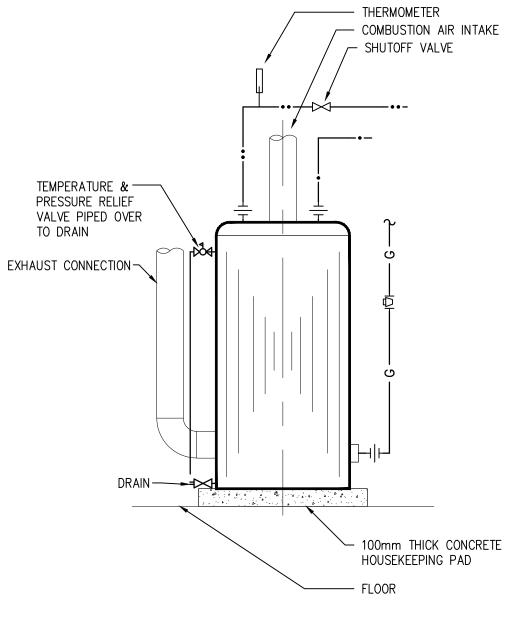
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BASEMENT CHANGE ROOM PLAN - PLUMBING M2.0 SCALE: 3/16" = 1'-0"



NEW GAS FIRED HOT WATER HEATER PIPING DETAIL



GAS FIRED HOT WATER HEATER

DRAWING NOTES - PLUMBING

- REMOVE EXISTING GAS FIRED BOILER. SUPPLY AND INSTALL NEW POWER VENT HIGH EFFICIENCY GAS FIRED HOT WATER TANK IN EXISTING LOCATION. EXTEND PIPNG CONNECTIONS FOR DCW, DHW AND DHWR AS REQUIRED. PROVIDE ALL TRANSITIONS TO ACCOMMODATE FINAL INSTALLATION. PROVIDE HOT WATER TANK WITH CONCENTRIC VENT KIT, CONDENSATE NEUTRALIZATION KIT, AND POWER VENT OPTION.
- EXTEND VENTING OF NEW HOT WATER TANK THROUGH ROOF APPROXIMATELY WHERE SHOWN. COMBUSTION AIR/EXHAUST TO BE RUN IN PARALLEL PRIOR TO COMBINING TO TERMINATE IN CONCENTRIC VENT.
- RETAIN EXISTING RECIRUCLATION PUMP AND HOT WATER STORAGE TANK CIRCULATION PUMP FOR REUSE IN NEW INSTALLATION.
- EXISTING WATER METER TO REMAIN. SHOWN FOR REFERENCE ONLY.
- APPROXIMATE LOCATION OF EXISTING DHW, DHWR, AND DCW RISES UP TO EXISTING DISTRIBUTION. EXTEND PIPING AS REQUIRED TO ACCOMMODATE INSTALLATION OF NEW EQUIPMENT. MAIN FLOOR DISTRIBUTION IS EXISTING TO REMAIN.
- 6 EXISTING HOT WATER STORAGE TANK TO REMAIN. SHOWN FOR REFERENCE ONLY.
- SUPPLY AND INSTALL BACKFLOW PREVENTION ON DCW LINE SUPPLY AND INSTALL BACKFLOW PREVENTION ON DCW WITHIN MECHANICAL ROOM PRIOR TO DISTRIBUTION OR CONNECTION TO HOT WATER TANK. VERIFY REQUIREMENTS FOR BACKFLOW PREVENTION WITH AUTHORITY HAVING JURISDICTION PRIOR TO ORDERING EQUIPMENT.
- 8 SUPPLY AND INSTALL THERMAL EXPANSION TANK IN APPROXIMATE LOCATION SHOWN. VERIFY EXACT LOCATION ON SITE. PROVIDE ADDITIONAL PIPING AS REQUIRED TO ACCOMMODATE FINAL LOCATION AND CONNECTION SIZES.
- SUPPLY AND INSTALL NEW CIRCULATION PUMP TO REPLACE EXISTING. UTILIZE EXISTING LOCATION AND PIPING/VALVING WHERE 12. ALL INSULATING MATERIALS, METHODS, SIZES AND TYPES OF INSULATION PRACTICAL. VERIFY FINAL LOCATION AND REQUIREMENTS ON SITE. REFER TO SPECIFICATIONS.

GENERAL NOTES - PLUMBING

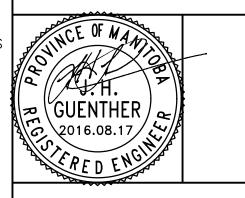
- 1. MECHANICAL SUBCONTRACTOR SHALL VERIFY EXACT LOCATIONS, SIZES, INVERTS, ETC. PRIOR TO COMMENCEMENT OF WORK. VERIFY ALL CONNECTION POINTS ON SITE.
- 2. MECHANICAL SUBCONTRACTOR SHALL ALLOW IN HIS TENDER QUOTATION FOR ALL REQUIRED MODIFICATIONS TO EXISTING SYSTEMS (I.E.) RE-ROUTING OF EXISTING PIPING AS DEEMED NECESSARY DUE TO RENOVATION WORK.
- 3. REFER TO ARCHITECTURAL, ELECTRICAL & STRUCTURAL DRAWINGS FOR COORDINATION PURPOSES.
- 4. MECHANICAL SUBCONTRACTOR SHALL CAREFULLY REMOVE & RELOCATE EXISTING EQUIPMENT AS PER OWNERS REQUIREMENTS.
- 5. ALL CUTTING & PATCHING OF FLOOR SLABS, WALLS ETC. TO BE PERFORMED BY CONTRACTOR.
- 6. ALL VENT PIPING TO BE INSTALLED AS PER CODE.
- 7. PROVIDE ISOLATION VALVES ON ALL FIXTURES OR FIXTURE GROUP.
- 8. PROVIDE TRAP SEAL TO ALL FLOOR/HUB DRAINS. SURESEAL OR EQUAL.
- 9. PROVIDE AUTOMATIC AIR VENTS AT ALL HIGH POINTS OF SYSTEM.
- 10. ALL WORK SHALL COMPLY IN EVERY RESPECT WITH ALL NATIONAL, PROVINCIAL AND LOCAL CODES AND BY-LAWS, WHICH SHALL BE CONSIDERED PART OF THE SPECIFICATION. IN THE CASE OF CONFLICTING REQUIREMENTS, BE GOVERNED BY THE MOST STRINGENT REGULATIONS.
- 11. THE MECHANICAL SUBCONTRACTOR SHALL INSTALL PLUMBING SYSTEMS IN COMPLETE ACCORDANCE WITH THE RECOMMENDATIONS OF THE NATIONAL/PROVINCIAL BUILDING CODE, LOCAL PLUMBING CODES, AND MANITOBA OFFICE OF THE FIRE COMMISSIONER REQUIREMENTS.
- FOR ALL PIPING SHALL BE INSTALLED TO THE REQUIREMENTS OF THE ASHRAE STANDARDS 90.1-2010 "ENERGY STANDARD FOR BUILDING EXCEPT LOW-RISE RESIDENTIAL BUILDING", STANDARD 90.2 "ENERGY EFFICIENT DESIGN OF LOW-RISE RESIDENTIAL BUILDINGS", THERMAL INSULATION ASSOCIATION OF CANADA (TIAC) STANDARDS.
- 13. GAS PIPING SHALL BE BLACK STEEL PIPE, EQUAL TO ASTM A-53 SCH. 40 WITH 150 LBS. STANDARD BLACK MALLEABLE IRON SCREWED FITTINGS. ALL WORK SHALL COMPLY WITH C.G.A. B149.1-10 "NATURAL GAS AND PROPANE INSTALLATION CODE", COMPLETE WITH OFFICE OF THE FIRE COMMISSIONER GAS NOTICES, AND SHALL BE PERFORMED BY FULLY QUALIFIED GAS FITTERS AND/OR WELDERS LICENSED TO PRACTICE IN THE PROVINCE OF MANITOBA.
- 14. PROVIDE DI-ELECTRIC COUPLINGS ON ALL PIPING CONNECTIONS TO HOT WATER TANKS.
- 15. PROVIDE APPROPRIATE FIRE-STOPPING MEASURES ON ALL PIPING PENETRATING FIRE SEPARATIONS SUBMIT SHOP DRAWINGS FOR REVIEW. ACCEPTABLE PRODUCT: HILTI, OR EQUAL.
- 16. INSULATE VENT PIPING BACK 10'-0" (3.0 M) FROM ROOF PENETRATIONS IN ALL DIRECTIONS.
- 17. COORDINATE MOUNTING HEIGHT OF ALL FIXTURES ARCHITECTURAL ELEVATIONS.
- 18. ALL SANITARY WASTE & VENT PIPING AND DOMESTIC WATER PIPING SHALL BE CAPABLE OF MEETING OR EXCEEDING THE FLAME SPREAD RATING OF 25 AND DEVELOPED SMOKE RATING OF 50, AND BE SUITABLE FOR INSTALLATION IN AIR PLENUMS.
- 19. ALL CONTROL / ELECTRICAL WIRING TO MEET FLAME SPREAD RATING OF 25, DEVELOPED SMOKE RATING OF 50 AND BE RATED FOR USE IN PLENUMS.
- 20. ROOF MOUNTED PIPING SHALL BE SUPPORTED WITH C-PORT UV RESISTANT RUBBER MOUNTS OF SUITABLE WIDTHS TO ACCOMMODATE INSTALLATION REQUIREMENTS, AS MANUFACTURED BY CLEARLINE TECHNOLOGIES OR APPROVED EQUAL. INSTALLATIONS TO CAN/CSA-B149.1-05.
- 21. MECHANICAL SUBCONTRACTOR SHALL PROVIDE PRE-ASSEMBLED AND PRE-TESTED OVER-PRESSURE RELIEF REGULATORS AND VENT ASSEMBLIES ON ALL PROPANE AND NATURAL GAS PIPING SYSTEMS GREATER THAN 7" W.C., INSTALLED AT EACH APPLIANCE AND/OR EQUIPMENT. INSTALLATION AND REQUIREMENTS TO MEET THE CAN/CSA-B149.1-05 AND TSSA/MANITOBA OFFICE OF THE FIRE COMMISSIONER REQUIREMENTS.

	CONSTRUCTION	JHG	2016.08.17
١.	REVISION	BY	DATE

THIS DRAWING MUST NOT BE SCALED

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		VITAL ARENA ST. ANNE'S RD
	LOCATION	N
RADE		No.962 Date:_2016.08.17
NADE		Nova 3 Engineering Lt
RADE		Certificate of Authorization

WINNIPEG, MANITOBA

CHANGE ROOMS PLUMBING DEMOLITION AND RENOVATION PLANS

DESIGNED BY	APPROVED BY	
SJ	JHG	
DRAWN BY		
SJ		
DATE	SCALE	
2016/08/17	AS NOTED	
PROJECT		DWG No.
36-083M		M2.0

LEGEND - PLUMBING		
	SANITARY LINE ABOVE FLOOR/GRADE	
	SANITARY LINE BELOW FLOOR/GRADE	
	VENT LINE	
	VENT LINE INSULATION	
G	GAS LINE	
	DOMESTIC COLD WATER (DCW)	
	DOMESTIC HOT WATER (DHW)	
	HOT WATER RECIRCULATION (DHWR)	
 г	CLEANOUT	
0	FLOOR / HUB DRAIN	
	PUMP	
$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	SHUT-OFF VALVE	