

DRAWING NOTES - PLUMBING

- SUPPLY AND INSTALL LAVATORY. EXTEND ½" DCW AND ½" DHW PIPING SURFACE MOUNTED, DOWN BUILDING SERVICES WALL FOR CONNECTION TO FIXTURE BRASS ON WALL C/W ISOLATION VALVES ON SUPPLY PIPING. CONNECT VENT ABOVE FLOOD LEVEL OF FIXTURE. SENSOR WIRED BY ELECTRICAL SUB CONTRACTOR. REFER TO SPECIFICATION.
- SUPPLY AND INSTALL VALVE TYPE WATER CLOSET. EXTEND 1"
 DCW SUPPLY PIPING SURFACE MOUNTED, DOWN BUILDING
 SERVICES WALL TO FLUSH VALVE CONNECTION AT BRASS ABOVE
 FIXTURE. PROVIDE AVB ON SUPPLY TO EACH FIXTURE. INSTALL
 AUTOMATIC FLUSH SENSOR FLUSH WITH WALL. SENSOR WIRED BY
 ELECTRICAL SUB CONTRACTOR. VERIFY MOUNTING HEIGHT AND
 HANDING ON SITE. REFER TO SPECIFICATION.
- SUPPLY AND INSTALL ELECTRIC HOT WATER TANK, SUSPENDED FROM UNDERSIDE OF STRUCTURE C/W DRIP PAN BELOW TANK AND DRAIN TO STACK IN AREA. EXTEND P&T RELIEF DOWN TO DRIP PAN. PROVIDE ISOLATION VALVES IN TANK INLET/OUTLET CONNECTIONS. REFER TO SPECIFICATION.
- SUPPLY AND INSTALL RECIRCULATION PUMP C/W TIMECLOCK FOR CONTROL. INSTALL PUMP AT HIGH LEVEL APPROXIMATELY WHERE SHOWN. REFER TO DETAIL FOR INSTALLATION. UNIT TO BE INSTALLED TO ACCOMMODATE MANUFACTURER'S RECOMMENDED SERVICE AND INSTALLATION CLEARANCE REQUIREMENTS. REFER TO MECHANICAL UNIT SCHEDULE.
- SUPPLY AND INSTALL WELL PUMP IN WELL. LOCATION AND SPECIFICATION TO BE DETERMINED AFTER TEST DRILLS HAVE BEEN COMPLETED. ENSURE WELL HEAD IS LOCATED OUT OF DRAINAGE DITCH. UNIT TO BE INSTALLED TO ACCOMMODATE MANUFACTURER'S RECOMMENDED SERVICE AND INSTALLATION CLEARANCE REQUIREMENTS.
- PROVIDE MAIN BUILDING TRAP AND CLEAN OUT AT BUILDING LINE.
 CONFIRM LEAVING INVERT WITH OUTSIDE SERVICES CONTRACTOR
- VENT TO CONTINUE UP TO ROOF C/W INCREASER AT ROOF LINE.
 INSULATE VENT PIPING BACK 10'-0" FROM ROOF PENETRATION IN ALL DIRECTIONS
- 8 SUPPLY AND INSTALL 2" WATER TANK REFILL LINE COMPLETE WITH SHUTOFF VALVE AND THREADED CONNECTION W/ END CAP. SUPPLY AND INSTALL 3" VENT W/ DOWNTURN AT EXTERIOR FOR OVERFLOW.
- 9 SUPPLY AND INSTALL 3" FLOOR DRAIN W/ TRAP SEAL. TIE IN 3" @ 1/50 SANITARY LINE TO SANITARY MAIN APPROXIMATELY AS SHOWN. COORDINATE LOCATION OF DRAIN WITH ARCHITECT. REFER TO SPECIFICATION.
- SUPPLY AND INSTALL MOP SINK. PROVIDE ½" DCW AND ½" DHW PIPING DOWN TO FIXTURE BRASS MOUNTED ON WALL ABOVE FIXTURE C/W DUAL CHECK VALVES. PROVIDE VACUUM BREAKER ON ALL HOSE END CONNECTIONS AND REDUCED PRESSURE BACKFLOW PREVENTER. REFER TO SPECIFICATION.
- SUPPLY AND INSTALL WATER STORAGE TANK APPROXIMATELY WHERE SHOWN. UNIT TO BE INSTALLED TO ACCOMMODATE MANUFACTURER'S RECOMMENDED SERVICE AND INSTALLATION CLEARANCE REQUIREMENTS. REFER TO MECHANICAL UNIT SCHEDULE
- SUPPLY AND INSTALL SANITARY HOLDING TANK APPROXIMATELY WHERE SHOWN. UNIT TO BE INSTALLED TO ACCOMMODATE MANUFACTURER'S RECOMMENDED SERVICE AND INSTALLATION CLEARANCE REQUIREMENTS. REFER TO MECHANICAL UNIT SCHEDULE. REFER TO INSTALLATION DETAIL.
- SUPPLY AND INSTALL PRESSURE TANK APPROXIMATELY WHERE SHOWN. UNIT TO BE INSTALLED TO ACCOMMODATE MANUFACTURER'S RECOMMENDED SERVICE AND INSTALLATION CLEARANCE REQUIREMENTS. REFER TO MECHANICAL UNIT SCHEDULE
- SUPPLY AND INSTALL WATER SOFTENING DEVICE FOR WELL WATER. UNIT SIZE AND SPECIFICATION BASED ON TEST DRILL FINDINGS. REFER TO SPECIFICATION.
- DOMESTIC WATER PLUMBING TO HANG FROM UNDERSIDE OF STRUCTURAL SLAB.

GENERAL NOTES - PLUMBING

- 1. MECHANICAL SUB CONTRACTOR SHALL VERIFY EXACT LOCATIONS, SIZES, INVERTS, ETC. PRIOR TO COMMENCEMENT OF WORK. VERIFY ALL CONNECTION POINTS ON SITE.
- 2. MECHANICAL SUB CONTRACTOR SHALL ALLOW IN HIS BID 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. ALL CUTTING & PATCHING OF FLOOR SLABS, WALLS ETC. TO BE PERFORMED BY GENERAL CONTRACTOR.
- 5. ALL VENT PIPING TO BE INSTALLED AS PER CODE.
- 6. PROVIDE ISOLATION VALVES ON ALL FIXTURES OR FIXTURE GROUP.
- 7. PROVIDE TRAP SEAL TO ALL FLOOR AND HUB DRAINS. WADE OR EQUAL.
- 8. PROVIDE AUTOMATIC AIR VENTS AT ALL HIGH POINTS OF SYSTEM.

9. ALL DOMESTIC WATER LINES TO BE INSULATED TO MANITOBA HYDRO

- POWER SMART REQUIREMENTS AND MANITOBA ENERGY CODE FOR BUILDINGS REQUIREMENTS.

 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 SUB CONTRACTOR 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.
- 12. ALL INSULATING MATERIALS, METHODS, SIZES AND TYPES OF INSULATION 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. AND MANITOBA ENERGY CODE FOR BUILDINGS REQUIREMENTS.
- 13. PROVIDE DI-ELECTRIC COUPLINGS ON ALL PIPING CONNECTIONS TO HOT WATER TANKS.
- 14. PROVIDE APPROPRIATE FIRE—STOPPING MEASURES ON ALL PIPING PENETRATING FIRE SEPARATIONS SUBMIT SHOP DRAWINGS FOR REVIEW. ACCEPTABLE PRODUCT: HILTI, OR EQUAL.
- 15. INSULATE VENT PIPING BACK 10'-0" (3.0 M) FROM ROOF PENETRATIONS IN ALL DIRECTIONS.
- 16. COORDINATE MOUNTING HEIGHT OF ALL FIXTURES. REFER TO ARCHITECTURAL FOR ELEVATIONS.
- 17. ALL SANITARY WASTE, VENT PIPING, RAIN WATER 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.
- 18. ALL CONTROL / ELECTRICAL WIRING TO MEET FLAME SPREAD RATING OF 25, DEVELOPED SMOKE RATING OF 50 AND BE RATED FOR USE IN PLENIUMS
- 19. PLUMBING SIZING SHOWN IS BASED ON COPPER PIPING FOR DOMESTIC WATER, AND CAST IRON PIPING FOR SANITARY AND STORM. MECHANICAL SUB CONTRACTOR IS RESPONSIBLE FOR RESIZING PLUMBING AS REQUIRED WHEN USING ALTERNATE MATERIALS.

LEGEND - PLUMBING			
	SANITARY LINE ABOVE FLOOR/GRADE		
	SANITARY LINE BELOW FLOOR/GRADE		
	VENT LINE		
	VENT LINE INSULATION		
SPD	PUMPED DISCHARGE LINE		
	GAS LINE		
	WELL WATER		
	DOMESTIC COLD WATER (DCW)		
	DOMESTIC HOT WATER (DHW)		
	HOT WATER RECIRCULATION (DHWR)		
—— ı	CLEANOUT		
0	FLOOR / HUB DRAIN		
	PUMP		
	SHUT-OFF VALVE		
——IOI——	BALL VALVE		
	CHECK VALVE		
<u> </u>	MANUAL BALANCING VALVE		
	UNION		
	PRESSURE REDUCING VALVE		
	STRAINER		
	PIPE ANCHOR		
ф-э	WALL HYDRANT		
9	PRESSURE GAUGE		
	THERMOMETER		
	DIRECTION OF FLOW		

ALL DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF THE CONSULTANT NO REPRODUCTIONS MAY BE MADE WITHOUT THE CONSENT OF THE CONSULTANT AND ALL REPRODUCTIONS MUST BEAR THE NAME OF THE CONSULTANT.

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, DATUMS AND LEVELS NOTED ON THE DRAWINGS WITH THE CONDITIONS ON SITE AND SHALL BE RESPONSIBLE FOR REPORTING ANY ERRORS OR OMISSIONS TO THE ENGINEER FOR ADJUSTMENTS.

THIS DRAWING SHALL NOT BE SCALED

NOVA 3 ENGINEERING LTD.

CONSULTING ENGINEERS

201–120 FORT STREET TEL.: (204) 943–6142

WINNIPEG, MANITOBA R3C 1C7 FAX.: (204) 942–1276

WWW.NOVA3.CA JN.: 36–232

THIS DRAWING IS THE EXCLUSIVE PROPERTY OF NOVA 3 ENGINEERING LTD.

AND MAY ONLY BE REPRODUCED WITH THE WRITTEN PERMISSION OF NOVA 3 ENGINEERING LTD.

THE CONCEPT AND DESIGN INCORPORATED INTO THIS DRAWING ARE BASED ON INFORMATION PROVIDED BY THE CLIENT AND OTHER RELATED SOURCES. PROFESSIONAL ENGINEER ACCEPTS NO RESPONSIBILITY FOR DRAWING AND DESIGN UNLESS DRAWING IS ACCOMPANIED BY ORIGINAL SEALED LETTER OF INTENT OR EQUIVALENT ACCEPTABLE FACSIMILE. PROFESSIONAL ENGINEER ACCEPTS NO RESPONSIBILITY FOR FINAL INSTALLATION CONFORMANCE WITHOUT ORIGINAL SEALED CETTER OF INSPECTION OR EQUIVALENT ACCEPTABLE FACSIMILE.



Revisio

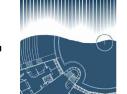
May 31, 201

Issued for Construction

Northern Sky Architecture Inc.

100-128 James Aven Winnipeg, Manitoba, C R38 0N8 contact@ned.ca Fry 204 684 7079

204.943.6767

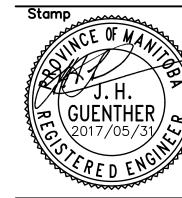




Stamp

Nova 3 Engineering Ltd.

No.962 Date: 2017/05/31



Project

La Barriere Park Washroom Replacement

La Barriere Park, Manitoba

ISSUED FOR CONSTRUCTION

drawing title MECHANICAL — PLUMBING				
scale	as noted	designed by	kbb	
date	May, 2017	drawn by	hc	
project no.	337-2017	reviewed by	hc	
reference no.	16.235	sheet M1.0	REV.	