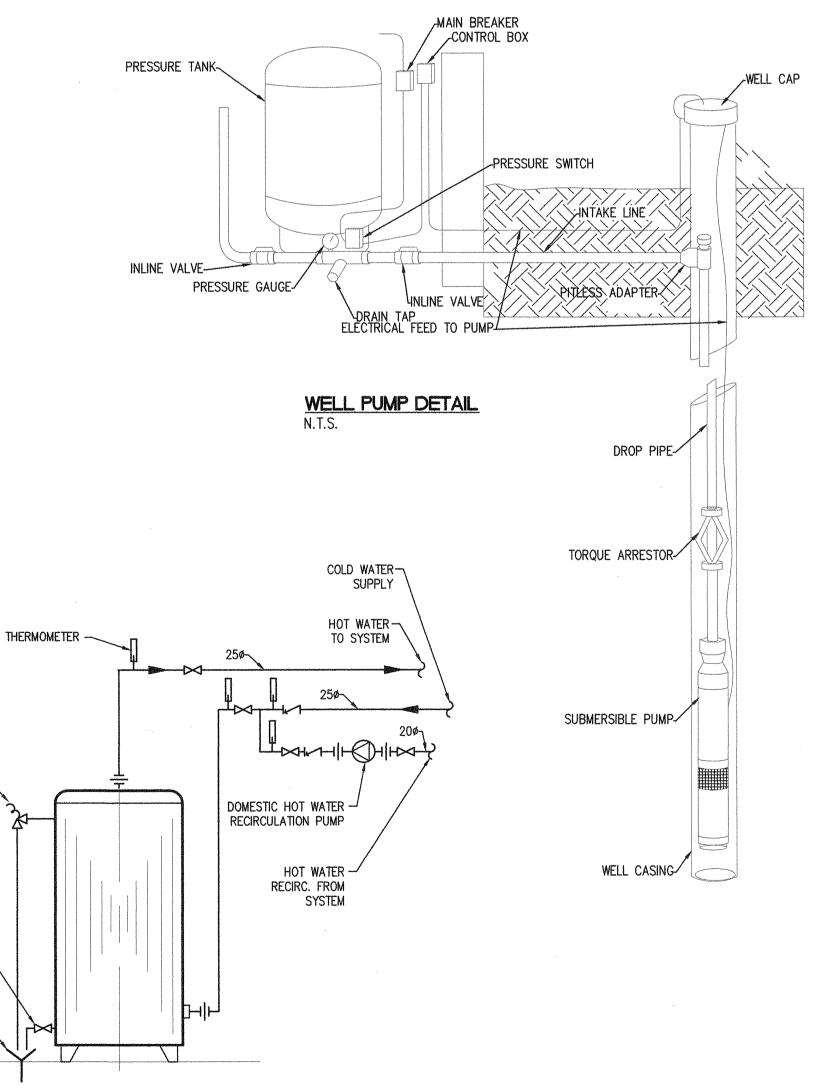
DRAWING NOTES - PLUMBING

- SUPPLY AND INSTALL LAVATORY, EXTEND 1/2" DCW AND 1/2" DHW PIPING 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. PROVIDE OFFSET P-TRAP AND INSULATED TRAP COVER. REFER TO SPECIFICATION.
- SUPPLY AND INSTALL FLUSH VALVE TYPE WATER CLOSET. EXTEND 1" DCW SUPPLY PIPING DOWN BUILDING SERVICES WALL TO FLUSH VALVE CONNECTION AT BRASS ABOVE FIXTURE. PROVIDE AVB ON SUPPLY TO EACH FIXTURE. INSTALL AUTOMATIC FLUSH SENSOR FLUSH WITHIN WALL. SENSOR WIRED BY ELECTRICAL SUB CONTRACTOR. VERIFY MOUNTING HEIGHT AND HANDING ON SITE. REFER TO SPECIFICATION.
- SUPPLY AND INSTALL ELECTRIC HOT WATER TANKC/W DRIP PAN BELOW TANK AND DRAIN TO MOP SINK IN AREA. EXTEND P&T RELIEF DOWN TO DRIP PAN. PROVIDE ISOLATION VALVES IN TANK INLET/OUTLET CONNECTIONS. REFER TO SPECIFICATION.
- SUPPLY AND INSTALL PUMP C/W TIMECLOCK FOR CONTROL. INSTALL PUMP AT HIGH LEVEL APPROXIMATELY WHERE SHOWN. REFER TO DETAIL FOR INSTALLATION. PROVIDE CONTROLS FOR THE OPERATION OF THE PUMP, AS REQUIRED. UNIT TO BE INSTALLED TO ACCOMMODATE MANUFACTURER'S RECOMMENDED SERVICE AND INSTALLATION CLEARANCE REQUIREMENTS. REFER TO MECHANICAL UNIT SCHEDULE.
- SUPPLY AND INSTALL WELL PUMP SET WITHIN WELL CASING C/W SS CHECK VALVE ABOVE PUMP. PROVIDE TRENCHING FROM WELL TO FACILITY AND 114" POLY LINE BELOW FROSTLINE TO FACILITY. WELL TO BE HOOKED UP WITH 'SNAPPY' PITLESS ADAPTER. COMPLETE WITH SWING JOINT. ALL COMPONENTS AND FITTINGS TO BE BRASS OR STAINLESS STEEL. PROVIDE CONTROLS FOR THE OPERATION OF THE WELL PUMP, AS REQUIRED. REFER TO SPECIFICATION. UNIT TO BE INSTALLED TO ACCOMMODATE MANUFACTURER'S RECOMMENDED SERVICE AND INSTALLATION CLEARANCE REQUIREMENTS. COORDINATE EXACT LOCATION WITH ARCHITECTURAL AND ON SITE. WELL AND CASING BY OTHERS.
- PROVIDE MAIN BUILDING TRAP AND CLEAN OUT AT BUILDING LINE. CONFIRM LEAVING INVERT ON SITE.
- VENT TO CONTINUE UP TO ROOF C/W INCREASER AT ROOF LINE. INSULATE VENT PIPING BACK 10'-0" FROM ROOF PENETRATION IN ALL DIRECTIONS.
- 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

- 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
- 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. PROVIDE CONTROLS FOR THE OPERATION OF THE PRESSURE TANK, AS REQUIRED. UNIT TO BE INSTALLED TO UNIT SCHEDULE.
- SUPPLY AND INSTALL WATER SOFTENING/FILTER DEVICE FOR WELL WATER. REFER TO SPECIFICATION. PROVIDE CONTROLS FOR THE OPERATION OF THE WATER SOFTENING DEVICE, AS REQUIRED. UNIT TO BE INSTALLED TO ACCOMMODATE MANUFACTURER'S RECOMMENDED SERVICE AND INSTALLATION CLEARANCE
- DOMESTIC WATER PLUMBING TO HANG FROM UNDERSIDE OF CEILING AT HIGH LEVEL. PROVIDE INSULATION SHIELDS ON HANGAR RODS.
- SUPPLY AND INSTALL LOCKED WALL HYDRANT UNDER SINK. TO BE SURFACE MOUNTED/FLUSH IN PANEL C/W ISOLATION VALVE. CONFIRM EXACT LOCATION WITH OWNER. REFER TO SPECIFICATION. COORDINATE INSTALLATION WITH GENERAL CONTRACTOR. REFER
- SANITARY WASTE PIPING TO BE PROTECTED FROM FREEZING WITH INSULATION COVERING. REFER TO DETAILS.
- DOMESTIC WATER PIPING TO RISE UP IN FROST BOX C/W ISOLATION VALVE AT FLOOR LEVEL. EXTEND TRACER WIRE ON PUMP POWER/CONTROL WIRING.



ELECTRIC HOT WATER HEATER DETAIL

TEMPERATURE-& PRESSURE RELIEF VALVE

DRAIN VALVE -

FLOOR DRAIN -

- SUPPLY AND INSTALL SANITARY HOLDING TANK APPROXIMATELY WHERE SHOWN. UNIT TO BE INSTALLED TO ACCOMMODATE
- ACCOMMODATE MANUFACTURER'S RECOMMENDED SERVICE AND INSTALLATION CLEARANCE REQUIREMENTS. REFER TO MECHANICAL
- REQUIREMENTS.
- TO SPECIFICATION.
- PIPING AND CONNECT TO RISER. COORDINATE INSTALLATION WITH

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. REFER TO ARCHITECTURAL, ELECTRICAL & STRUCTURAL DRAWINGS FOR COORDINATION PURPOSES.
- 3. ALL CUTTING & PATCHING OF FLOOR SLABS, WALLS ETC. TO BE PERFORMED BY GENERAL CONTRACTOR.
- 4. ALL VENT PIPING TO BE INSTALLED AS PER CODE.
- 5. PROVIDE ISOLATION VALVES ON ALL FIXTURES OR FIXTURE GROUP.
- 6. PROVIDE TRAP SEAL TO ALL FLOOR AND HUB DRAINS. WADE OR EQUAL.
- 7. PROVIDE AUTOMATIC AIR VENTS AT ALL HIGH POINTS OF SYSTEM. 8. ALL DOMESTIC WATER LINES TO BE INSULATED TO MANITOBA HYDRO
- POWER SMART REQUIREMENTS AND MANITOBA ENERGY CODE FOR BUILDINGS REQUIREMENTS. 9. 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.

10. 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. 11. 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.
- 12. PROVIDE DI-ELECTRIC COUPLINGS ON ALL PIPING CONNECTIONS TO HOT WATER TANKS.
- 13. PROVIDE APPROPRIATE FIRE-STOPPING MEASURES ON ALL PIPING PENETRATING FIRE SEPARATIONS SUBMIT SHOP DRAWINGS FOR REVIEW. ACCEPTABLE PRODUCT: HILTI, OR EQUAL.
- 14. INSULATE VENT PIPING BACK 10'-0" (3.0 M) FROM ROOF PENETRATIONS IN ALL DIRECTIONS.
- 15. COORDINATE MOUNTING HEIGHT OF ALL FIXTURES. REFER TO ARCHITECTURAL FOR ELEVATIONS.
- 16. ALL SANITARY WASTE, VENT PIPING, RAIN WATER PIPING, DOMESTIC WATER PIPING, INSULATION, ADHESIVES AND COVERINGS 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.
- 17. ALL CONTROL / ELECTRICAL WIRING TO MEET FLAME SPREAD RATING OF 25, DEVELOPED SMOKE RATING OF 50 AND BE RATED FOR USE IN
- 18. 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
апрадальный проставлення в проставления в проставле	SANITARY LINE BELOW FLOOR/GRADE
	VENT LINE
	VENT LINE INSULATION
SPD	PUMPED DISCHARGE LINE
G	GAS LINE
	WELL WATER
Annual statement of the	DOMESTIC COLD WATER (DCW)
	DOMESTIC HOT WATER (DHW)
	HOT WATER RECIRCULATION (DHWR)
	CLEANOUT
0	FLOOR / HUB DRAIN
\bigcirc	PUMP
	SHUT-OFF VALVE
——IOI——	BALL VALVE
	CHECK VALVE
——	MANUAL BALANCING VALVE
	UNION
	PRESSURE REDUCING VALVE
	STRAINER
	PIPE ANCHOR
ф->	WALL HYDRANT
9	PRESSURE GAUGE
	THERMOMETER
	DIRECTION OF FLOW

INCOMING WATER LINE ----

50mm WATER LINES VALVED

AND CAPPED FOR POSSIBLE

FUTURE IRON FILTER

65-/

-BACKLASH DRAIN LINES

BELOW TOP OF STANDPIPE

-200mm CAST IRON STANDPIPE

-CONNECT DRAIN TO SUMP PIT

WATER SOFTENING EQUIPMENT DETAIL

600mm HIGH C/W 100mm TRAP

-DISCHARGE PIPING SHALL TERMINATE

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ssued for Construction

Northern Sky Architecture Inc.

EXPEGN

Certificate of Authorization Nova 3 Engineering Ltd. Date: 2018/05/24



New La Barriere Park Washroom Project

La Barriere Park, Manitoba

drawing title MECHANICAL - MAIN FLOOR PLAN - PLUMBING as noted designed by kbb May, 2018 drawn by he 16.235 reviewed by hc bid opp. no. 436-2018 sheet M1.0

ISSUED FOR CONSTRUCTION

-SOFTENER

-HOUSEKEEPING PAD BY

GENERAL CONTRACTOR