

DRAWING NOTES:

- BREAK INTO EXISTING 2000 HDPE FORCEMAIN. INSTALL A 45° 200mm HDPE WYE FITTING c/w 50mm PRE-INSULATION.
- 2 INSTALL 45° HDPE BEND C/W 50mm PRE-INSULATION.
- 3 INSTALL 200mm BALLCENTRIC VALVE MOUNTED VERTICALLY WITH VALVE STEM EXTENSION. (TYP)
- CONCRETE VAULTS C/W STEEL PLATE COVER. 200mm CONCRETE WALL. (TYP)
- 5 EXISTING ABOVE GROUND 300mm INSULATED GRAVITY OUTFALL.
- 6 INSTALL 200¢ HDPE BYPASS LINE C/W 50mm PRE-INSULATION.
- 7 ACCESS HATCH TO BE BILKO TYPE K-4 & RECESSED PADLOCK (OR APPROVED EQUAL). SIZE 914mm x 914mm.
- 8 INSTALL 300mm x 300mm x 200mm DR17 HDPE WYE C/W 50mm PRE-INSULATION.
- 9 EXISTING 200mmø PRE-INSULATED STEEL PIPE TRANSITION.
- 200mm X 75mm STAINLESS STEEL SADDLE C/W 75mm BALL VALVE, SCREW ON CAP & INSULATION KIT.
- 200mmø X 50mm STAINLESS STEEL SADDLE. 50mm BALL VALVE, SCREW ON CAP & INSULATION KIT.
- 2 LAYERS OF 50mm RIGID BOARD INSULATION. (TYP)
- 200mm SAND BEDDING. (TYP)
- 14 GRINNEL PIPE SUPPORT. (TYP)
- 15M REBAR BOTH WAYS @ 300m O.C. WITH 50mm 15 CONCRETE COVER MINIMUM.
- 19mmø ALUMINUM LADDER RUNGS 400mm WDE 300 O.C. FIX TO CONCRETE VAULT
- 75mm X 75mm X 6mm GALVANIZED ANGLE IRON FRAME.
- 6mm THK. GALVANIZED STEEL PLATE VAULT COVER WELDED TO ANGLE IRON FRAME.
- 200mmø LINK-SEAL FOR A 200mm THK. CONCRETE WALL. C/W STEEL SLEEVE TO SUIT. (TYP)
- 300mmø LINK-SEAL FOR A 200mm THK. CONCRETE WALL. C/W STEEL SLEEVE TO SUIT. (TYP)
- 21 6mm OF PRESSURE TREATED PLYWOOD SHEATHING. (TYP)

REINFORCING STEEL:

- REINFORCING STEEL TO BE NEW DEFORMED BILLET STEEL BAR CONFORMING TO CSA G30.18 (LATEST). GRADES TO BE 400 MPa FOR 15M BARS AND LARGER; 300 MPa FOR 10M
- SUBMIT SHOP DRAWINGS WHICH CLEARLY INDICATE BAR SIZES, SPACING, LOCATIONS & QUANTITIES OF REINFORCING STEEL, BENDING & CUTTING SCHEDULES, SUPPORTING & SPACING DEVICES, TALL FOR REVIEW PROPERTY OF ABRICATION. DETAIL, FABRICATE AND PLACE REINFORCING IN ACCORDANCE CSA A23.1 (LATEST), CSA A23.3 (LATEST) AND ACI SP-66 (LATEST) EXCEPT AS NOTED. LAP STEEL 36 BAR DIAMETERS (MINIMUM) UNLESS NOTED OTHERWISE.
- REINFORCING STEEL SHALL BE CLEAN, FREE OF RUST, DIRT, LOOSE SCALE, OIL, GREASE OR ANY OTHER MATERIAL WHICH WOULD REDUCE BOND WITH THE CONCRETE.
- TIE, SUPPORT AND SPACE ALL REINFORCING STEEL WITH PROPER APPROVED DEVICES DESIGNED FOR USE IN REINFORCED CONCRETE, TO PREVENT DISPLACEMENT OF REINFORCING AND ENSURE SPECIFIED CONCRETE COVER.

CONCRETE:

- CONCRETE MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH CSA A23.1/A23.2 (LATEST). SEE BELOW FOR MIX REQUIREMENTS.
- ADMIXTURES SHALL NOT BE USED UNLESS SPECIFIED HEREIN OR APPROVED BY THE DESIGN ENGINEER, CALCIUM CHLORIDE SHALL NOT BE USED.
- DESIGN, FABRICATE AND ERECT FORMWORK/SHORING IN ACCORDANCE WITH CAN/CSA-S269.3 (LATEST). ALLOW SUFFICIENT CONCRETE CURING TIME PRIOR TO REMOVAL.
- CONCRETE FINISHING SHALL MEET THE REQUIREMENTS OF CSA A23.1 (LATEST).
- FORM RELEASE AGENT SHALL BE BIODEGRADABLE, NON-STAINING AND NON-VOLATILE.
- PROVIDE ADEQUATE COLD/HOT WEATHER PROTECTION AS REQUIRED DURING CURING PERIOD.
- CAST-IN-PLACE ANCHOR BOLTS SHALL MEET
- REQUIREMENTS OF ASTM A307 (LATEST).
- CONCRETE MIX DESIGN SHALL BE PROPORTIONED TO MEET THE FOLLOWING PERFORMANCE REQUIREMENTS:

EXPOSURE CLASS 28 DAY COMP. STRENGTH W/C RATIO AGGREGATE SIZE (MAX.) ENTRAINED AIR

5%-8%

1/8" OR 3/16" FLOOR COVERING (BY OTHERS) 1/4" ALUMINUM SMOOTH PLATE COVER RED VINYL GRIP-BILCO AUTOMATIC HOLD OPEN ARM STEEL CAST HINGES EXTRUDED ALUMINUM _ 16mm DIA. GALV. NUT, BOLT & WASHER. LENGTH TO SUIT. (4 PER SIDE) TORSION/CAM OPERATING MECHANISM 16mm# LAG BOLT ANCHOR 65mm EMBEDMENT INTO CONCRETE (4 PER SIDE) G HATCH DETAIL
SW1 NTS

BENCH MARK: DATUM ELEV. 0.00
SEWAGE TREATMENT PLANT
TOP OF FLOOR

NOVEMBER 2012 ISSUED FOR 66% SUBMISSION The contractor shall verify all dimensions, levels, and datums on site and report any discrepancies or omissions to this office prior to construction. JANUARY 2013

Geologists and Geophysicists of NWT/NU

FEBRUARY 2013

APRIL 2013

ISSUED FOR 99% SUBMISSION

REVISED AS PER ADDENDUM 1 TO 4 AND ISSUED FOR CONSTRUCTION

ISSUED FOR TENDER

This drawing is to be read and understood in conjunction with all other plans and documents applicable to this project.

4. Do not scale the drawings.

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GOVERNMENT OF NUNAVUT COMMUNITY & GOVERNMENT SERVICES

RANKIN INLET SEWAGE TREATMENT PLANT

Drawing Title			
NUVUK	LIFT	STATION	EXTERIOR
BYPASS			

Checked By
G. POPOWICH J. JUACALLA **SW-1** Project No. 300031281 AS NOTED