

GENERAL NOTES

- DIMENSIONS IN MILLIMETRES. ELEVATIONS IN METRES.
- 2. DIMENSIONS, ELEVATIONS, AND DETAILS OF EXISTING STRUCTURES ARE BASED ON PREVIOUS CONTRACT DRAWINGS. VERIFY IN THE FIELD ALL DIMENSIONS, ELEVATIONS, AND DETAILS BEFORE COMMENCEMENT OF CONSTRUCTION.
- DESIGN LOADS INDICATED ON DRAWINGS ARE SERVICE LOADS (UNFACTORED), UNLESS NOTED OTHERWISE. DESIGN LOADS INDICATED ON DRAWINGS WITH SUBSCRIPT 'f' ARE FACTORED LOADS.
- COMPACTION DENSITIES INDICATED ON DRAWINGS ARE PERCENTAGES OF MAXIMUM DRY DENSITY AS DETERMINED IN ACCORDANCE WITH ASTM D698.
- 5. FOR REINFORCING LAP TABLE AND SIMILAR ITEMS, SEE STANDARD DETAILS DRAWING NO. S0006 & S0007.

DESIGN NOTES

(NOTE: THIS INFORMATION IS FOR REFERENCE PURPOSES ONLY. CONTRACTOR TO REFER TO SPECIFICATIONS.)

1. ASSUMED DESIGN BEARING CAPACITY: SQUARE/RECTANGULAR FOOTINGS

100kPa

CONCRETE 28-DAY COMPRESSIVE STRENGTH:

TYPE A 30MPa MINIMUM, UNLESS NOTED OTHERWISE 35MPa PRECAST

3. REINFORCEMENT BARS: CAN/CSA-G30.18-M92; GRADE 400R.

4. STRUCTURAL STEEL: CAN/CSA-G40.21-M98; GRADE 350W

ANCHOR BOLTS: ASTM A307-04; UNLESS NOTED OTHERWISE

6. BACKFILL: UNIT WEIGHT

 $21.5 kN/m^3$

7. SNOW LOAD DATA:

HILTI HVA ANCHORS

GROUND SNOW LOADING (Ss) ASSOCIATED RAIN LOADING (S_r)

1.9kPa 0.2kPa

8. WIND LOAD DATA:

1/10 YEAR PRESSURE (9₁₀) 1/50 YEAR PRESSURE (q 50)

0.35kPa 0.45kPa

SEISMIC DATA:

PEAK GROUND ACCELERATION

PGA=0.059 $S_a(0.2)=0.12$ $S_a(0.5)=0.056$ $S_a(1.0) = 0.023$ $S_a(2.0) = 0.006$

10. REFERENCE CODES:

MANITOBA BUILDING CODE

NATIONAL BUILDING CODE OF CANADA 2005

CONCRETE AND REINFORCEMENT: CSA A23.1-04,

CSA A23.2-04 AND CSA A23.3-04 iv) STRUCTURAL STEEL: CAN/CSA-S16-01 ABBREVIATIONS

ANCHOR BOLT

AB

ALUMINUM ALT ALTERNATE LLH LLV LPT BLDG BUILDING BLL BOTTOM LOWER LAYER ВМ LSSJ BEAM

BOT BOTTOM B PL BASE OR BEARING PLATE BOTTOM UPPER LAYER BUL

C TO C CENTRE TO CENTRE СВ CATCH BASIN CHKD PL CHECKERED PLATE CONSTRUCTION JOINT CL CENTRE LINE CLJ CONTROL JOINT

CLSM CONTROLLED LOW STRENGTH MATERIAL COL COLUMN CONCRETE CONC CONTINUOUS CONT

CAPILLARY WATERPROOFING CW C/W COMPLETE WITH DIAMETER DBS DOWEL BAR SPLICER(S)

DIMENSION

DIM DL DEAD LOAD DN DOWN DO. DITTO DWG DRAWING(S) DWL DOWEL(S)

EACH FACE ELEVATION EL EQL EQUAL EQPT EQUIPMENT ES EACH SIDE EACH WAY ΕW EXST EXISTING

EXP JT EXPANSION JOINT FD FLOOR DRAIN FDN FOUNDATION FAR FACE FF

FNSH FINISH FL FLOOR FRP FIBRE REINFORCED

PLASTIC FTG FOOTING GALVANIZED GD GUTTER DRAIN

GID GROUTED-IN DOWEL GRANULAR HORIZ HORIZONTAL

HIGH POINT HOLLOW STRUCTURAL STEEL HIGH WATER LEVEL

INSIDE DIAMETER I.F. INSIDE FACE INSUL INSULATION

INVERT

LIVE LOAD LONG LEG HORIZONTAL LONG LEG VERTICAL LOW POINT LONG SPAN STEEL JOIST

JOINT

MAXMAXIMUM MC MOMENT CONNECTION MEZZ MEZZANINE МН MANHOLE

JT

MID MIDDLE MIN MINIMUM MISCELLANEOUS MISC MW

MEMBRANE WATERPROOFING NF NEAR FACE NO. NUMBER

NTS NOT TO SCALE OD OUTSIDE DIAMETER O.F. OUTSIDE FACE

OPNG OPENING OPP OPPOSITE OWSJ OPEN-WEB STEEL JOIST

PRECAST CONCRETE PERF PERFORATED PLPLATE PVC POLYVINYL CHLORIDE

RISERS RADIUS REINF REINFORCING STEEL BAR

REQD REQUIRED SEP JT SEPARATION JOINT SIM SIMILAR

SPEC SPECIFICATION STANDARD PROCTOR MAXIMUM DRY DENSITY SQ SQUARE STAINLESS STEEL

SST STD STANDARD STGR STIF STAGGERED STIFFENER STIRR STIRRUP

> SYMMETRICAL SYMM TREADS T&B TOP AND BOTTOM TIE JOIST

> TLL TOP LOWER LAYER TOC TOP OF CONCRETE TUL TOP UPPER LAYER

TYP TYPICAL U/S UNDERSIDE UNLESS NOTED OTHERWISE

VERTICAL

WATERSTOP

WS WELDED WIRE FABRIC

CH2MHILL POSTED TO LBIS R.PARIKH R.ZENG A.JANSSENS HOR. SCALE NTS

7/11/28 AJ

ISSUED FOR TENDER

VERTICAL

Winnipèg SIGNED BY

THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT

NORTH END WATER POLLUTION CONTROL CENTRE

SHEET 4 OF 24 CONSULTANT DRAWING NUMBER S0001 CITY DRAWING NUMBER
1-0101M-DS0001-001-00D

PARIKH APPROVED E.SHARP WET WELL REHABILITATION 2007/11/28 RELEASED FOR STRUCTURAL ROJECT No.: 358676 K. ZUREK LEGEND & GENERAL NOTES LOT DATE: 2007/11/28 2007 06 20 DATE 2007/11/29

ORIGINAL

R.P.

ENGINEER'S SEAL

Certificate of Authorization CH2M HILL Canada Ltd. No. 1441 Expiry: April 30, 2008