GENERAL NOTES

1. READ THE STRUCTURAL DRAWINGS IN CONJUNCTION WITH ALL OTHER PERTINENT CONTRACT DOCUMENTS.
2. ALL DIMENSIONS ARE IN METRIC UNITS UNLESS NOTED. THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS SHOWN ON THE STRUCTURAL DRAWINGS AGAINST THE BUILDING, PROCESS, MECHANICAL, AND ELECTRICAL DRAWINGS THE EXISTING SITE CONDITIONS BEFORE BEGINNING CONSTRUCTION AND REPORT DISCREPANCIES TO THE CONTRACT ADMINISTRATOR BEFORE PROCEEDING WITH THE WORK. DO NOT SCALE DRAWINGS.
3. THE DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE MANITOBA BUILDING CODE 2010, IT'S SUPPLEMENTS AND THE LATEST EDITIONS OF REFERENCED CODES AND STANDARDS THEREIN, UNLESS NOTED OTHERWISE. BUILDING IMPORTANCE CATEGORY: NORMAL.
4. REFER TO THE BUILDING, PROCESS, MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS AND DIMENSIONS OF OPENINGS, SLEEVES AND OTHER BUILDING COMPONENTS NOT SHOWN ON THE STRUCTURAL DRAWINGS. REPORT DISCREPANCIES AND OBTAIN CONTRACT ADMINISTRATOR'S PRIOR APPROVAL BEFORE INSTALLING SLEEVES AND OPENINGS THAT ARE NOT INDICATED ON THE STRUCTURAL DRAWINGS BEFORE PROCEEDING WITH CONSTRUCTION.
5. REFER TO BUILDING, PROCESS, MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATION OF PITS, BASES, DRAINS, TRENCHES, SUMPS, HOUSEKEEPING PADS, DEPRESSIONS, GROOVES, CURBS, CHAMFERS AND SLOPES NOT SHOWN ON THE STRUCTURAL DRAWINGS.
6. CONTRACTOR TO CONFIRM WITH EQUIPMENT SUPPLIERS DIMENSIONS AND ALL OTHER CRITICAL DETAILS PRIOR TO CONSTRUCTION AND INSTALLATION. REPORT DISCREPANCIES AND OBTAIN APPROVAL PRIOR TO CONSTRUCTION.
7. NOTIFY THE CONTRACT ADMINISTRATOR 48 HOURS IN ADVANCE FOR SITE REVIEW.
8. DRAWINGS SHOW COMPLETED STRUCTURES ONLY. PROVIDE TEMPORARY BRACING FOR CONSTRUCTION LOADING CONDITIONS AND STABILITY OF THE STRUCTURE DURING CONSTRUCTION. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN LOADS SHOWN ON DRAWINGS.
9. CONSTRUCTION METHODS REQUIRING TEMPORARY SHORING, OR BRACING, SHALL BE SUBMITTED TO THE CONTRACT ADMINISTRATOR FOR REVIEW. THE CONTRACTOR SHALL RETAIN A PROFESSIONAL ENGINEER, REGISTERED IN THE PROVINCE OF MANITOBA, TO PROVIDE ENGINEERING DESIGN AND TAKE RESPONSIBILITY FOR ANY SHORING AND BRACING OR OTHER WORK REQUIRING ENGINEERING DESIGNS TO COMPLETE THE CONSTRUCTION.
10. VERIFY LOCATION OF UNDERGROUND SERVICES AND BE RESPONSIBLE FOR DISRUPTIONS.
12. ALL SHOP DRAWING SUBMITTALS TO BE METRIC (MILLIMETERS) UNLESS NOTED.

EXCAVATION & BACKFILL

1. EXCAVATE TO LINES AND LEVELS NECESSARY TO PROPERLY COMPLETE THE WORK. CONTROL EXCAVATION TO ENSURE BOTTOM OF EXCAVATION DOES NOT SOFTEN DUE TO EXCESS MOISTURE. REFERENCE THE GEOTECHNICAL REPORT FOR FURTHER INFORMATION.
2. ALL BACKFILL SHALL BE COMPACTED USING MECHANICAL EQUIPMENT. ON THE EXTERIOR OF THE STRUCTURES, THE BACKFILLING SHALL BE PLACED WITH SUFFICIENT ALLOWANCE FOR SETTLEMENT AND IN GENERAL, ITS TOP SURFACE SHALL BE NEATLY GRADED.
3. MAINTAIN OPTIMUM MOISTURE CONTENT TO PERMIT COMPACTION TO ATTAIN SPECIFIED DENSITIES. PROTECT BACKFILLED GRADE, DURING AND AFTER COMPLETION OF BACKFILL OPERATION, FROM SOFTENING DUE TO EXCESS MOISTURE.
4. BACKFILL TO GRADES INDICATED IN LAYERS NOT EXCEEDING 300mm UNCOMPACTED, UNLESS NOTED OTHERWISE.
5. BACKFILLING SHALL NOT COMMENCE UNTIL THE INTERMEDIATE SLAB HAS BEEN PLACED AND DESIGN STRENGTH HAVE BEEN ACHEIVED. 2

FOUNDATION

1. GEOTECHNICAL REPORT IS AVAILABLE AS REFERENCED IN THE CONTRACT SPECIFICATIONS.
2. ALLOWABLE BEARING CAPACITY FOR RAFT FOUNDATION IS AVAILABLE IN GEOTECHNICAL REPORT.
3. MODULUS OF SUBGRADE REACTION AT FOUNDATION LEVEL IS AVAILABLE IN GEOTECHNICAL REPORT.
4. BEARING SURFACES FOR RAFT FOUNDATIONS SHALL BE REVIEWED AND ACCEPTED BY THE CONTRACT ADMINISTRATOR PRIOR TO CASTING OF CONCRETE. PROTECT BEARING SURFACES. DO NOT PLACE CONCRETE ON FROZEN SOIL.
5. PREVENT SUBGRADE FROM FREEZING AFTER CASTING CONCRETE WORKS UNTIL CONSTRUCTION IS COMPLETE AND STRUCTURES ARE IN SERVICE.

DESIGN LOADS

1. THE STRUCTURE IS DESIGNED TO MEET THE REQUIREMENTS OF THE 2010 NATIONAL BUILDING CODE.
2. WIND LOADS - THE BUILDING STRUCTURE IS DESIGNED TO RESIST THE HORIZONTAL LOADS RESULTING FROM A 1/50 AVERAGE HOURLY WIND PRESSURE BASED ON A q=0.45 kPa WITH AN IMPORTANCE CATEGORY OF"NORMAL".
3. SNOW LOADS: THE ROOF AREA ARE DESIGNED BASED ON:
   GROUND SNOW LOAD = 1.9kPa
   RAIN LOAD = 0.20 kPa
4. FLOOR LOADS - REFER TO STRUCTURAL DRAWINGS.

CONCRETE

1. PROVIDE CONCRETE AND PERFORM WORK TO CSA A23.1. SUPPLY CONCRETE TO ALTERNATIVE (1) PERFORMANCE. THE CONTRACTOR SHALL HAVE A COPY OF THIS STANDARD ON SITE AT ALL TIMES.
2. TEST CONCRETE IN ACCORDANCE WITH CSA A23.2.

CONCRETE ACCESSORIES

1. GROUT: NON-SHRINK, NON-METALLIC GROUT WITH MINIMUM STRENGTH AT THREE DAYS OF 20 MPA AND MINIMUM STRENGTH AT 28 DAYS OF 50 MPA.
2. EXPANSION ANCHORS: OF DIAMETER & PENETRATION SHOWN. CAPACITIES ARE BASED ON HILTI CANADA ANCHOR SYSTEMS. SUBMIT ANCHOR LOAD RESISTANCE DATA FROM INDEPENDENT TESTING FIRM FOR REVIEW BY CONTRACT ADMINISTRATOR MINIMUM 2 WEEKS PRIOR TO INTENDED USE.
3. EPOXY ANCHORS: OF DIAMETER & PENETRATION SHOWN. SHEAR AND TENSION CAPACITIES ARE BASED ON HILTI HY-200 + HIT-HAS SUPER HARDWARE. SUBMIT ANCHOR LOAD RESISTANCE DATA FROM INDEPENDENT TESTING FIRM FOR REVIEW BY CONTRACT ADMINISTRATOR MINIMUM 2 WEEKS PRIOR TO INTENDED USE.

MASONRY

1. ALL MASONRY WORK SHALL CONFORM TO CSA S304.1, A371 AND TO DETAILS SHOWN ON DRAWINGS.
2. MASONRY BLOCK UNITS SHALL CONFORM TO CSA A165, CLASSIFICATION H/15/A/M WITH A MINIMUM UNIT STRENGTH OF 15 MPa, UNLESS NOTED OTHERWISE.
3. ALL MORTAR SHALL CONFORM TO CSA A179 AND SHALL BE TYPE 'S'.
4. LINTELS, BOND BEAMS, AND REINFORCED CORES SHALL BE FILLED WITH CONCRETE HAVING A MINIMUM COMPRESSIVE STRENGTH OF 20 MPA.
5. PROVIDE DOWELS FROM CONCRETE BEAMS, WALL AND FLOORS TO MATCH MASONRY WALL REINFORCING UNLESS NOTED OTHERWISE.

CONCRETE REINFORCEMENT

1. DEFORMED BARS CONFORMING TO CSA G30.18 GRADE 400. LAP SPLICES SHALL BE CLASS B TENSION LAP TYPE AS NOTED IN THE BELOW TABLE, UNLESS NOTED OTHERWISE.
2. WELDABLE REINFORCING BARS SHALL CONFORM TO CSA G30.18 GRADE 400W. WELDING OF REINFORCING SHALL CONFORM TO CSA W186.
3. REINFORCING WORK SHALL BE IN ACCORDANCE WITH CSA A23.1 AND CSA A23.3.
4. REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH THE LATEST EDITION OF THE REINFORCING STEEL INSTITUTE OF CANADA DETAILING MANUAL.
5. 90° HOOKS AND 180° HOOKS WHERE SHOWN SHALL BE DETAILED AS STANDARD HOOKS UNLESS NOTED OTHERWISE.
6. CONCRETE COVER TO REINFORCING STEEL SHALL CONFORM TO THE MOST STRINGENT REQUIREMENT LISTED BELOW UNLESS NOTED OTHERWISE:

PUMP STATION - ITEM	COVERAGE (mm)
LOWER LEVEL BASE SLABS (BOTTOM)	75
WALLS (BOTH FACES)	50
MAIN FLOOR, INTERMEDIATE LEVEL, AND LOWER LEVEL SLABS TOP	50
MAIN FLOOR, INTERMEDIATE LEVEL, AND LOWER LEVEL SLABS SIDES	50
MAIN FLOOR AND INTERMEDIATE LEVEL SLABS BOTTOM	50
CONCRETE BEAMS: SIDE (TO OUTSIDE FACE OF STIRRUP)	50
CONCRETE BEAMS: TOP AND BOTTOM (TO OUTSIDE FACE OF STIRRUP)	50
CURBS	50
FORMED SURFACES NOT EXPOSED TO GROUND, WATER, OR WEATHER NOT LISTED ABOVE	50
HOUSEKEEPING PADS	50

REINFORCING BAR DEVELOPMENT PER ACI 350

f'c = 35 MPa fy = 400 MPa

BAR SIZE	BAR DEVELOPMENT	COMPRESSION DEVELOPMENT	STANDARD HOOK DEVELOPMENT
10M	420mm	200mm	180mm
15M	630mm	280mm	270mm
20M	840mm	355mm	360mm
25M	1295mm	460mm	450mm

REINFORCING BAR SPLICES PER ACI 350

f'c = 35 MPa fy = 400 MPa

BAR SIZE	CLASS 'B' SPLICE
10M	545mm
15M	820mm
20M	1090mm
25M	1685mm

MIX TYPE	INTENDED APPLICATION	MINIMUM COMPRESIVE STRENGTH (MPa)	CLASS OF EXPOSURE
1	STRUCTURAL CONCRETE	35 (28-DAY)	S-1 & C-1
2	CONCRETE TOPPING SLAB	20 (28-DAY)	C-1
3	NON-STRUCTURAL INTERIOR HOUSEKEEPING PADS	30 (28-DAY)	N
4	CONCRETE UNIT MASONRY INFILL	20 (28-DAY)	N

WATERSTOPS

1. WATER STOPS ARE SHOWN ON PLANS AND SECTIONS FOR INFORMATION ONLY. IN GENERAL ALL CONSTRUCTION JOINTS IN LIQUID RETAINING STRUCTURES AND ALL JOINTS BELOW GRADE ARE TO BE WATERSTOPPED.
2. CONSTRUCTION JOINTS ARE SHOWN FOR INFORMATION ONLY AND THE CONTRACTOR ENCOURAGED TO REVIEW CONSTRUCTION PROCEDURES AND PROPOSE ALTERNATIVE CONSTRUCTION JOINT LOCATION TO EXPEDITE THE WORK. THE CONTRACT ADMINISTRATOR MUST APPROVE ALL REVISED JOINT LOCATION.
3. WATERSTOPS TO BE 150 PVC AS PER CW2160. SUBSTITUTIONS WILL NOT BE ALLOWED WITHOUT WRITTEN APPROVAL FROM THE CONTRACT ADMINISTRATOR.

MISCELLANEOUS METALS

1. THE STEEL ERECTOR SHALL BE RESPONSIBLE FOR SUPPLING AND ERECTING ALL TEMPORARY WORKS REQUIRED FOR THE STRUCTURE DURING ERECTION.
2. WELD TO CSA W59 BY FABRICATORS QUALIFIED TO CSA W47.1, IN DIVISION 2.
3. ISOLATE MISC. METALS FROM FOLLOWING COMPONENTS BY MEANS OF 2 COATS OF AKALI RESISTANT BITUMINOUS PAINT:
   .1 DISSIMILAR METALS EXCEPT STAINLESS STEEL, GALVANIZED STEEL, ZINC, OR WHITE BRONZE OF SMALL AREA.
   .2 CONCRETE, MORTAR AND MASONRY.
4. STEEL PLATES: CONFORMING TO CAN/CSA G40.21; TYPE W WITH A MINIMUM YIELD STRENGTH OF 300 MPa.
5. ANCHOR RODS: CONFORMING TO ASTM F1554.
6. WELDING MATERIALS: CONFORMING TO CSA W59.
7. WELDING OF ALL LOAD CARRYING ASSEMBLIES IS TO BE PERFORMED BY A FIRM CERTIFIED BY THE CANADIAN WELDING BUREAU TO THE REQUIREMENTS OF CSA W47.1 IN DIVISION 2.
8. SUPPLY ALL COMPONENTS REQUIRED FOR PROPER ANCHORAGE OF STEEL FABRICATIONS. FABRICATE ANCHORAGE AND RELATED COMPONENTS OF SAME MATERIAL AND FINISH AS STEEL FABRICATIONS, UNLESS OTHERWISE SPECIFIED OR SHOWN.
9. NELSON STUDS: H4L HEADED STUDS BY NELSON STUD, A DONCASTERS GROUP LIMITED COMPANY.

STRUCTURAL STANDARD ABBREVIATIONS:

ACOUSTIC	ACST	HANGER	HGR
ADDITIONAL	ADD`L	HEIGHT	HT
ADHESIVE	ADH	HEXAGON	HEX
ADJUSTABLE	ADJ	HOLLOW STRUCTURAL STEEL	HSS
AGGREGATE	AGGR	HORIZONTAL	HORIZ
AIR HANDLING UNIT	A.H.U.	INCLUSIVE	INCL
AIR VAPOUR BARRIER	A.V.B.	INSIDE DIAMETER	I.D.
ALTERNATE	ALTER	INSIDE FACE	I.F.
ALUMINUM	ALUM	INTERIOR	INT
ANCHOR BOLT	A. BOLT	INVERT ELEVATION	INVT EL
APARTMENT	APT	JUNCTION	JCT
APPROXIMATE	APPROX	KILONEWTON	kN
BUILDING	BUILDING	KNOCK DOWN	K.D.
AT	@	LIVE LOAD	L.L.
AVERAGE	AVG	LONG	LG.
BEARING	BRG	LONG LEG HORIZONTAL	L.L.H.
BENCH MARK	B.M.	LONG LEG VERTICAL	L.L.V.
BETWEEN	BET	LOUVER	LVR
BOARD	BD	MAKE UP AIR UNIT	MAU
BOTH SIDES	B.S.	MANUFACTURE	MFG
BOTH WAYS	B.W.	MARK	MK
BOTTOM	BOT	MASONRY OPENING	M.O.
BOTTOM LOWER LAYER	BLL	MATERIAL	MATL
BOTTOM UPPER LAYER	BUL	MAXIMUM	MAX
BUILDING	BLDG	MECHANICAL	MECH
BY (BETWEEN DIMS)	x (lower case)	METER	m (lower case)
CAST IN PLACE	C.I.P.	MILLIMETER	mm (lower case)
CAST IRON	C.I.	MINIMUM	MIN
CATCH BASIN	C.B.	MISCELLANEOUS	MISC
CEMENT BOARD	C.BD.	NEAR FACE	N.F.
CENTERLINE	C	NEAR SIDE	N.S.
CENTER TO CENTER	C/C	NORTH	N
CIRCULAR	CIRC	NOT APPLICABLE	N/A
CLEAN OUT	C.O.	NOT IN CONTRACT	N.I.C.
CLEAR SPAN	CL. SPAN	NOT TO SCALE	N.T.S.
COLUMN	COL	NUMBER	No.
COMPLETE WITH	c/w	ON CENTER	o/c (lower case)
CONCRETE	CONC	OPENING	OPG
CONCRETE MASONRY UNIT	CMU	OPEN WEB STEEL JOIST	O.W.S.J.
CONCRETE PIPE	C.P.	OPPOSITE	OPP
CONSTRUCTION	CONSTR	ORIGINAL	ORIG
CONSTRUCTION JOINT	C.J.	OUTSIDE DIAMETER	O.D.
CONTINUOUS	CONT	OUTSIDE FACE	O.F.
CORRUGATED METAL PIPE	C.M.P.	OUT TO OUT	O/O
COUNTERSUNK	CSK	OVERHEAD	O/H
DEAD LOAD	D.L.	PERPENDICULAR	PERP
DEGREE	°	PLATE	PL
DIAMETER	DIA	POUNDS PER LINEAR FOOT	PLF
DIMENSION	DIM	POUNDS PER SQUARE FOOT	PSF
DOWN	DN	PLYWOOD	PLYWD
DOWEL	DWL	PRE-CAST	P/C
DRAWING	DWG	PREFABRICATED	PREFAB
EACH FACE	E.F.	PREFINISHED	PREFIN
EACH WAY	E.W.	PRELIMINARY	PRELIM
EAST	E	PROJECTION	PROJ
ELECTRICAL	ELECT	QUANTITY	QTY
ELEVATION	EL	RADIUS	R
ELEVATOR	ELEV	REFERENCE	REF
EQUAL	EQ.	REINFORCE WITH	R/W
EQUAL SPACE	EQ SP	REINFORCING	REINF
EXCAVATION	EXC	REQUIRED	REQ`D
EXISTING	EXIST	RETAINING WALL	R.W.
EXPANSION	EXP	REVISION	REV
EXPANSION JOINT	E.J.	ROOF DRAIN	R.D.
EXTERIOR	EXT	ROUGH OPENING	R.O.
FACE TO FACE	F/F	SCHEDULE	SCHED
FACE OF CONCRETE	F.O.C.	SECTION	SECT
FAR SIDE	F.S.	SELF ADHESIVE	S.A.
FIBREBOARD	FBRBD	SHEATHING	SHTG
FINISH	FIN	SHEET	SHT
FLOOR DRAIN	F.D.	SIMILAR	SIM
FOUNDATION	FDN	SKETCH	SK
FOOTING	FTG	SOUTH	S
GALVANIZE	GALV	SPECIFICATION	SPEC
GALVANIZED IRON	G.I.	SQUARE FEET	SQ. FT.
GAUGE	GA	STAINLESS STEEL	S.S.
GRANULAR	GRAN	STANDARD	STD
GRANULAR BASE	G.B.	STIFFENER	STIFF
GRANULAR BACK FILL	GBFL	STIRRUP	STIRR
GRID LINE	G.L.	STRUCTURAL	STRUCT
GUARD RAIL	G.R.	SYMMETRICAL	SYM
		TANGENT	TAN
		TEMPORARY	TEMP
		TO MATCH EXISTING	T.M.E.
		TOP OF	T.O.
		TOP LOWER LEVEL	TLL
		TOP UPPER LEVEL	TUL
		TYPICAL	TYP
		UNDERCUT	U. CUT
		UNLESS NOTED	U/N
		VERTICAL	VERT
		WEIGHT	WT
		WIND LOAD	W.L.
		WITH	w/
		WITH OUT	W/O
		WOOD	WD
		WROUGHT IRON	W.I.

PLASTIC FABRICATIONS

1. INSTALLATION IN ACCORDANCE WITH MANUFACTURER'S SHOP DRAWINGS.
2. FRP ANGLES BY FIBERGRATE.
   REFER TO DRAWINGS AND SPECIFICATIONS FOR LOCATIONS AND DETAILS.

ALUMINUM FABRICATIONS

1. DESIGN, FABRICATION AND INSTALLATION IN ACCORDANCE WITH CSA S157.
2. PERFORM WELDING OF ALUMINUM IN ACCORDANCE WITH REQUIREMENTS OF CSA W59.2 AND CSA S244.
3. ALUMINUM TO CSA/CAN 3-S157, 6061-T6 OR 6063-T6 ALUMINUM ALLOY.
4. BOLTS AND ANCHOR BOLTS: STAINLESS STEEL.
5. ISOLATE ALUMINUM FROM FOLLOWING COMPONENTS, BY MEANS OF BITUMINOUS PAINT:
   .1 DISSIMILR METALS EXCEPT STAINLESS STEEL AND GALVANIZED STEEL.
   .2 CONCRETE, MORTAR AND MASONRY.

WOOD

1. WOOD CONSTUCTION SHALL CONFORM TO CSA 086-09 AND PART 9 OF NBC 2010.
2. ROOF SHEATHING: DOUGLAS FIR PLYWOOD TO CSA-0121, OR CANADIAN SOFTWOOD PLYWOOD TO CSA-015.
3. WOOD FRAMING MATERIAL (UNLESS NOTED OTHERWISE SPECIFIED): S-P-F OR D.FIR.L NO.1/NO.2 (S-DRY)

   ROOF TRUSSES: KILN DRIED
4. ALL TRUSSES AND FRAMING DELIVERED TO THE SITE SHALL BE KEPT DRY. NO WARPED MATERIAL SHALL BE USED.
5. PREFABRICATE WOOD TRUSSES TO PROFILES, DIMENSIONS AND LOADS SHOWN ON DRAWINGS. SUPPLIER TO DESIGN TRUSSES WITH CONSIDERATION OF TRANSPORTATION, FABRICATION, AND ERECTION, UNDER PART 4 OF NBC 2010 AND IN ACCORDANCE WITH CSA 086-09.
6. SUBMIT SHOP DRAWINGS TO THE ENGINEER OR REVIEW PRIOR TO FABRICATION. SHOP DRAWINGS SHALL BE SEALED BY A PROFFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF MANITOBA. SHOP DRAWINGS SHALL INDICATE DESIGN LOADS, LUMBER SPECIES AND GRADES, SPACING OF TRUSSES, JOINT DETAILS AND CONNECTOR CAPACITIES, MEMBER FORCES, REACTIONS, AND CAMBER.
7. INSTALL SHEATHING TO PRIMARY FRAMING BEFORE INSTALLING VALLEY JACK RAFTERS AND SECONDARY FRAMING.
8. INSTALL ALL NECESSARY BRIDGING, BRACING AND BLOCKS.

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

APEGM
Certificate of Authorization
AECOM Canada Ltd.
No. 4671 Date:_____

UNDERGROUND STRUCTURES

SUPV. U/G STRUCTURES DATE

LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE, BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.

B.M.
ELEV.

NO.	REVISIONS	DATE	BY
2	ISSUED FOR ADDENDUM 7	17/03/21	KK
1	ISSUED FOR ADDENDUM 4	17/02/22	KK
O	ISSUED FOR TENDER	17/01/09	KK

AECOM

DESIGNED BY	KK/JT	CHECKED BY	SBB
DRAWN BY	KK	APPROVED BY	AN
HOR. SCALE / VERTICAL	AS SHOWN	RELEASED FOR CONSTRUCTION	
DATE	06/01/2016	DATE	09/06/2016

ENGINEER'S SEAL
PROVINCE OF MANITOBA
J.A. THOMPSON
Member
30632
REGISTERED PROFESSIONAL ENGINEER

CONSULTANT PROJECT NUMBER
60321148

Winnipeg
THE CITY OF WINNIPEG
PUBLIC WORKS DEPARTMENT

WAVERLEY STREET UNDERPASS AT CN MILE 3.89 RIVERS SUB
CONTRACT 2: UNDERPASS STRUCTURE, RAILWORKS, ROADWORKS, LAND DRAINAGE SEWER, PUMPING STATION AND LANDSCAPING WORKS

PUMPING STATION
GENERAL NOTES

CITY DRAWING NUMBER: U-239-2016-C2-BS-001
SHEET 1 OF 16
CONSULTANT DRAWING NUMBER: C2-BS-001

P:\60321148\900-Work\910-CAD\99-SUPPORT\PROJECT_TITLE_BLOCKS\Title Block for Pump Station works\163353-XTB-C1-CU.dwg