GENERAL NOTES

1. STRUCTURAL DESIGN BASED ON THE MANITOBA BUILDING CODE 2024. ALL CODES AND STANDARDS SHALL BE THE EDITIONS DESIGNATED IN DIVISION B TABLE 1.3.1.2.
   A) IMPORTANCE CATEGORY: NORMAL
2. DO NOT SCALE DRAWINGS.
3. DO NOT BACKFILL UNTIL GROUND FLOOR STRUCTURE IS IN PLACE AND BASEMENT SLABS HAVE BEEN POURED AND CURED.
4. ALL DIMENSIONS ARE TO BE VERIFIED WITH THE PROJECT DRAWINGS AND EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION.
5. THESE STRUCTURAL DRAWINGS SHOW THE COMPLETED STRUCTURE AND DO NOT INDICATE ALL COMPONENTS NECESSARY FOR SAFETY DURING CONSTRUCTION. THE GENERAL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SAFETY ON AND AROUND THE JOBSITE DURING CONSTRUCTION INCLUDING BUT NOT LIMITED TO ALL TEMPORARY SHORING/BRACING.

DESIGN NOTES

1. LIVE LOADS
   A) LIVE LOAD REDUCTIONS HAVE BEEN INCLUDED IN THE CALCULATION OF GRAVITY LOADS.

2. EARTHQUAKE LOADS
   A) THE REPORT PUBLISHED IN APRIL 2020 BY THE NRC ON RECOMMENDATIONS FROM THE JOINT TASK GROUP OF "THE CANADIAN COMMISSION ON BUILDING AND FIRE CODES" AND "THE PROVINCIAL AND TERRITORIAL POLICY ADVISORY COMMITTEE ON CODES", INDICATES THAT WHEN MAINTENANCE, REPAIR, OR REPLACEMENT OF COMPONENTS WITH SIMILAR COMPONENTS IS PERFORMED IN AN EXISTING BUILDING, UPGRADES TO CURRENT CODE REQUIREMENTS SHOULD ONLY BE PERFORMED ON A VOLUNTARY BASIS BY THE BUILDING OWNER. THIS EXEMPTION FROM UPGRADING TO MEET CURRENT CODES APPLIES AS LONG AS THE PERFORMANCE OF THE BUILDING IS NOT REDUCED BY THE MAINTENANCE, REPAIR, OR REPLACEMENT WITH SIMILAR COMPONENTS INTERVENTION BEING CONSIDERED.
   B) THE SCOPE OF STRUCTURAL WORK INDICATED ON THESE DRAWINGS IS A REPAIR TO ADDRESS DAMAGE OR DETERIORATION TO REINSTATE OR ENHANCE THE ORIGINALLY INTENDED STRUCTURAL PERFORMANCE OF THE BUILDING. THE SCOPE OF WORK DOES NOT REDUCE THE ORIGINALLY INTENDED STRUCTURAL PERFORMANCE. THE STRUCTURAL WORK DOES NOT INCLUDE A CHANGE IN BUILDING OCCUPANCY, DOES NOT INCLUDE REMOVAL, RELOCATION, OR AUGMENTATION OF EXISTING HORIZONTAL LOAD BEARING ELEMENTS, AND DOES NOT CONSTITUTE AN ADDITION TO THE BUILDING.
   C) CONSIDERING ITEMS A AND B ABOVE THE SEISMIC DESIGN PROVISIONS OF THE 2024 MANITOBA BUILDING CODE DO NOT APPLY TO THE PROPOSED SCOPE OF REPAIRS ON THIS PROJECT AND THEREFORE WERE NOT CONSIDERED IN THE SCOPE OF DESIGN AND CONSTRUCTION.

CAST-IN-PLACE CONCRETE

I CONCRETE

1. ALL CONCRETE TO BE MANUFACTURED AND INSTALLED IN ACCORDANCE WITH CSA-A23.1-19 "CONCRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION" AND CSA-A23.2-19 "TEST METHODS AND STANDARD PRACTICES FOR CONCRETE".
2. PROVIDE CERTIFICATION THAT MIX PROPORTIONS SELECTED WILL PRODUCE CONCRETE OF QUALITY, YIELD AND STRENGTH AS SPECIFIED IN CONCRETE MIXES, AND WILL COMPLY WITH CSA-A23.1. CERTIFICATION LETTER TO BE SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF MANITOBA.
3. PROVIDE CERTIFICATION THAT PLANT, EQUIPMENT, AND MATERIALS TO BE USED IN CONCRETE COMPLY WITH REQUIREMENTS OF CSA-A23.1. CERTIFICATION LETTER TO BE SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF MANITOBA.
4. CONCRETE PROPERTIES SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON THE DRAWINGS.

   CONCRETE REPAIRS: 35 MPA MIN. AT 28 DAYS
   CLASS OF EXPOSURE: C-1
   AIR CONTENT CATEGORY: 1 (5% TO 8%)
   AGGREGATE MAX. 20 MM
   CURING TYPE: TYPE 1 - BASIC

   UNLESS INDICATED OTHERWISE THE GENERAL CONTRACTOR CONTRACTOR SHALL SPECIFY CONCRETE SLUMP APPROPRIATE WITH PLACEMENT METHODS AND SITE CONDITIONS. THE GENERAL CONTRACTOR CONTRACTOR SPECIFIED SLUMP MUST BE SHOWN ON THE CERTIFICATION LETTER AND CONCRETE DELIVERY TICKET.

5. UNLESS NOTED OTHERWISE CONCRETE CURING TO CSA-A23.1-19 AS FOLLOWS:
   A) TYPE 1 - BASIC: 3 DAYS ≥ 10°C AND FOR A TIME NECESSARY TO ATTAIN 40% OF THE SPECIFIED STRENGTH.
   B) TYPE 2 - ADDITIONAL: 7 DAYS ≥ 10°C AND FOR A TIME NECESSARY TO ATTAIN 70% OF THE SPECIFIED STRENGTH.
   C) TYPE 3 - EXTENDED: 7 DAYS WET CURING ≥ 10°C AND FOR A TIME NECESSARY TO ATTAIN 70% OF THE SPECIFIED STRENGTH.
6. CONTRACTOR TO SUBMIT TEMPERATURE MONITORING PROCEDURE FOR CONCRETE POURS CONSIDERED MASS CONCRETE IN ACCORDANCE WITH A23.1-19.

II REINFORCING STEEL

1. ALL REINFORCING STEEL TO CONFORM TO CSA G30.18-09, "CARBON STEEL BARS FOR CONCRETE REINFORCEMENT".
2. ALL REINFORCING STEEL TO BE CSA-G30.18M-M92 GRADE 400R DEFORMED BARS EXCEPT COLUMN TIES AND BEAM STIRRUPS WHICH SHALL BE GRADE 400W STEEL.
3. ALL REINFORCING IS TO BE DETAILED IN ACCORDANCE WITH THE LATEST EDITION OF THE REINFORCING STEEL INSTITUTE OF CANADA - MANUAL OF STANDARD PRACTICE, EXCEPT OTHERWISE NOTED. ALL LAPPED SPLICES TO BE CLASS B SPLICES, UNLESS NOTED.
4. REINFORCING STEEL COVER TO CONFORM TO CSA A23.3-19 "DESIGN OF CONCRETE STRUCTURES FOR BUILDINGS" AND AS FOLLOWS:

   CONCRETE REPAIRS:
   EXPOSURE CLASS: C-1 TO MATCH EXISTING OR 60mm FOR NEW WORK

DRAWING SYMBOL LEGEND

BUILDING SECTION (X / X)

EXTERIOR ELEVATION (X / X)

WALL SECTION (X / X)

DETAIL SECTION (X / X and X / XX)

GRID LINE (A)

T/O EL 100000

KEYNOTE (##)

WALL TYPES (##)

WINDOW TYPES (##)

FLOOR TYPES (##)

DOOR NUMBERS (##)

ROOM NAME/NUMBER (NAME 1 / NAME 1 / NUMBR)

EQUIPMENT NUMBER (## / ##)

FLOOR DRAIN

MAIN DRAIN (POOL TANK)

SKIMMER

ROPE ANCHOR (R)

VACUUM PORT (V)

INLET (POOL WATER SUPPLY JET) (I)

LIFEGUARD ANCHOR (L)

STANCHION ANCHOR (S)

BULKHEAD ANCHOR (B)

CHAIR LIFT ANCHOR (C)

THROUGH TANK WALL LIGHT FIXTURE

WEDGE ANCHOR

FLAG POLE ANCHOR (F)

SINGLE BOLT ANCHOR (SB)

GOAL POST ANCHOR (G)

LADDER (TYPE 1)

LADDER (TYPE 2)

ABBREVIATIONS

@	AT (SPACING)
AB	ANCHOR BOLT
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
ARCH	ARCHITECT, ARCHITECTURAL
BOT, B	BOTTOM
B PL	BASE PLATE
BC	BOTTOM CHORD
BD	BOARD
BTWN	BETWEEN
BLDG	BUILDING
BLK	BLOCK
BLL	BOTTOM LOWER LAYER
BM	BEAM
BRDG	BRIDGING
BRG	BEARING
BRG PL	BEARING PLATE
BS	BOTH SIDES
BSMT	BASEMENT
BUL	BOTTOM UPPER LAYER
C	COMPRESSION (UNFACTORED)
C/C	CENTRE TO CENTRE
C/W	COMPLETE WITH
℄	CENTRE LINE
CANT	CANTILEVER
CAP.	CAPACITY
CEM	CEMENT
CF	COMPRESSIVE FORCE (FACTORED)
CHAN	CHANNEL
CI	CAST IRON
CIP	CAST–IN–PLACE
CJ	CONTROL JOINT
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
COMP	COMPOSITE
CONC	CONCRETE
CONN	CONNECT, CONNECTION
CONSTR	CONSTRUCTION
CONT	CONTINUOUS
CORR	CORRIDOR
DBL	DOUBLE
DEFL	DEFLECTION
DEMO	DEMOLISH, DEMOLITION
DEPR	DEPRESSION
DET	DETAIL
DEV	DEVELOP, DEVELOPMENT
ø, DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DIR	DIRECTION
DL	DEAD LOAD
DN	DOWN
DP	DEEP
DR	DOOR
DFIR	DOUGLAS FIR
DWG	DRAWING(S)
DWL	DOWEL(S)
EA	EACH
EE	EACH END
EF	EACH FACE
EJ	EXPANSION JOINT
EL	ELEVATION
ELEV	ELEVATOR
ELEC	ELECTRICAL
ENG	ENGINEER
EQ	EQUAL
EQUIP	EQUIPMENT
ES	EACH SIDE
E–W	EAST–WEST
EW	EACH WAY
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FDN	FOUNDATION
FF	FAR FACE
FIN	FINISHED
FL	FLOOR
FS	FAR SIDE
FT	FOOT/FEET
FTG	FOOTING
GA	GAUGE
GALV	GALVANIZED
GEN	GENERAL
GR	GRADE
GRAN	GRANULAR
H	HIGH
H	HORIZONTAL FORCE (UNFACTORED)
HC	HOLLOWCORE
HEX	HEXAGON
HORIZ	HORIZONTAL
HF	HORIZONTAL FORCE (FACTORED)
HM	HOLLOW METAL
HP	HIGH POINT
HT	HEIGHT
IC	IN CENTRE
ID	INSIDE DIAMETER
I/F	INSIDE FACE
INSUL	INSULATION
INT	INTERIOR
JST	JOIST
JT	JOINT
KG	KILOGRAM
KIP, K	1000 LB
KLF	KIP(S) PER LINEAL FOOT
KN	KILONEWTON
KO	KNOCKOUT
KPA	KILOPASCAL
KSF	KIP(S) PER SQUARE FOOT
KSI	KIP(S) PER SQUARE INCH
L	LOW
LB, #	POUND(S)
LG	LONG
LL	LIVE LOAD
LL	LOWER LAYER
LLV	LONG LEG VERTICAL
LLH	LONG LEG HORIZONTAL
LONG	LONGITUDINAL
LP	LOW POINT
M	METRE
MM	MILLIMETRE
MAS	MASONRY
MAX	MAXIMUM
MECH	MECHANICAL
MEZZ	MEZZANINE
MF	FACTORED MOMENT
MIN	MINIMUM
MISC	MISCELLANEOUS
MK	MARK
MO	MASONRY OPENING
MOM	MOMENT
MPA	MEGAPASCAL
NIC	NOT IN CONTRACT
NF	NEAR FACE
NO.	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
N–S	NORTH–SOUTH
NS	NELSON STUD
O/C	ON CENTRE
OD	OUTSIDE DIAMETER
O/O	OUT TO OUT
O/F	OUTSIDE FACE
OH	OVERHEAD
OPNG	OPENING
OWSJ	OPEN WEB STEEL JOIST
PA	PASCAL
PC	PRECAST
PERP	PERPENDICULAR
PL, ℄	PLATE
PLF	POUNDS PER LINEAL FOOT
PLYWD	PLYWOOD
PREFAB	PREFABRICATED
PROJ	PROJECTION
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED
R	RADIUS, REACTION
REF	REFERENCE
REINF	REINFORCE, REINFORCEMENT
REM	REMAINDER
REQ	REQUIRED
REV	REVISION, REVISED
RO	ROUGH OPENING
R/W	REINFORCE WITH
SCHED	SCHEDULE
SECT	SECTION
SIM	SIMILAR
SJ	STRUT JOIST
S1E	STRUT ONE END
SL	SLAB
SOG	SLAB ON GRADE
SPEC	SPECIFICATIONS
SPF	SPRUCE–PINE–FIR
SQ	SQUARE
STD	STANDARD
STR	STAIR
STIFF	STIFFENER
STIR	STIRRUP
STL	STEEL
STRUCT	STRUCTURAL
SYM	SYMMETRICAL
T	TENSION (UNFACTORED)
T	TOP
T/O	TOP OF
T&B	TOP & BOTTOM
TEMP	TEMPORARY
TF	TENSION FORCE (FACTORED)
THRU	THROUGH
TLL	TOP LOWER LAYER
TRANS	TRANSVERSE
TS	TEMPERATURE STEEL
TUL	TOP UPPER LAYER
TYP	TYPICAL
UHMW	ULTRA HIGH MOLECULAR WEIGHT
UL	UPPER LAYER
U/N	UNLESS OTHERWISE NOTED
U/S	UNDERSIDE
V	VERTICAL SHEAR (UNFACTORED)
VERT	VERTICAL
VF	VERTICAL SHEAR (FACTORED)
W	WIDE, WIDTH
W/	WITH
W/O	WITHOUT
WD	WOOD
WP	WORK POINT
WT	WEIGHT
WWM	WELDED WIRE MESH
X–BRACE	CROSS BRACING

CrosierKilgour
Structural Engineering & Building Performance

ENGINEERS GEOSCIENTISTS MANITOBA
Certificate of Authorization
Crosier Kilgour & Partners Ltd.
No. 235

No.	REVISION/DESCRIPTION	BY	DATE
0	ISSUED FOR CONSTRUCTION	DJM	2026-08-17

SEAL
PROVINCE OF MANITOBA
D.J. MIZAK
Member 20801
REGISTERED PROFESSIONAL ENGINEER
2026-08-17

2026-08-17 DATE	TRB DESIGNED	MS/SAS DRAWN	SMC CHECKED	DJM APPROVED

Winnipeg
THE CITY OF WINNIPEG
ASSETS & PROJECT MANAGEMENT DEPARTMENT
MUNICIPAL ACCOMMODATIONS DIVISION
3-65 GARRY STREET, R3C 4K4

PROJECT
PAN AM POOL
POOL RENEWAL

25 POSEIDON BAY

SHEET TITLE
GENERAL NOTES, LEGEND AND ABBREVIATIONS

SCALE	PROJECT No:	SHEET No:
AS SHOWN	2024-0660	S0.2

DRAWING SHEET SIZE: A1 (594x841) PLOT 1:1