MAIN FLOOR PLAN

SCALE: 1:20

DESIGN LOADS:

DESIGN LOAD: STRUCTURE SELF-WEIGHT.
LIVE LOAD: 4.8 KPa.

ROOF FRAMING PLAN

SCALE: 1:20

DESIGN LOADS:

DEAD LOAD: TOP CHORD – 0.5 kPa.
BOTTOM CHORD – 1 kPa.

SNOW LOAD: – 2.15 KPa.

LEGEND:

(E) –DENOTES EXISTING CONSTRUCTION.

(N) –DENOTES NEW CONSTRUCTION.

DRAWING NOTES:

1. REFER TO REF.2 DRAWING FOR BEAM TO BEAM AND BEAM TO CONCRETE CONNECTION DETAILS.
2. BOND HOUSEKEEPING PAD TO BASE CONCRETE WITH BONDING AGENT. PROVIDE 10M HOOKED DOWELS IN 400x400 GRID PATTERN EMBEDDED IN BASE CONCRETE BY 100mm C/W HILTI HIT-HY 200 ADHESIVE. BASE CONCRETE SCANNING REQUIRED TO AVOID DAMAGING REBAR.
3. UNDERSIDE OF BEAM SHALL BE AT 2813mm ABOVE THE FINISHED FLOOR ELEVATION.
4. PROVIDE 13mm THK. 140x400 BEARING PLATE AT EACH END OF THE BEAM. PLATE SHALL BE WELDED TO BEAM AND SHALL HAVE 2-13mmø NELSON STUDS EMBEDDED IN THE WALL.
5. REINFORCE AND GROUT WALL CORES LOCATED AT BEAM SUPPORTS WITH 15M VERTICAL REINF.
6. SUPPLY & INSTALL OZ1PBT PUSH BEAM TROLLEY (1 TONNE CAPACITY).
7. CONTRACTOR SHALL PROVIDE MASONRY REINFORCING SHOP DRAWINGS FOR REVIEW & APPROVAL.

CONCRETE MASONRY WALL SCHEDULE

ID	DESCRIPTION	REMARKS
W-1	140mm CONCRETE MASONRY UNIT WALL REINF. WITH 15M VERTICALS AT 800 O.C. AND 3.65mm (9 ga.) WIRE LADDER TYPE HORIZONTAL JOINT REINFORCING AT 400 O.C.	-REINFORCE WITH 15M & GROUT ONE CORE ON EACH SIDE OF LINTEL SUPPORT -PROVIDE DOWEL EMBEDDED INTO BASE CONCRETE AT EACH GROUTED CORE OF CMU WALL. REFER TO DETAIL 2/REF.4

REINFORCED CONCRETE SLAB SCHEDULE

ID	DESCRIPTION	REMARKS
S-1	203 THICK REINF. WITH 15M AT 300 O.C. EACH WAY TOP & BOTTOM.	

REINFORCED CONCRETE CORBEL SCHEDULE

ID	DESCRIPTION	REMARKS
C-1	304(W) X 610-1220(D) REINF. WITH 4-15M TOP LONGITUDINAL BARS, 6-15M INTERMEDIATE LONGITUDINAL BARS, 2-15M BOTTOM LONGITUDINAL & 10M CLOSED STIRRUPS AT 305 O.C.	REFER TO DETAIL A/REF.1

MASONRY LINTEL SCHEDULE

ID	DESCRIPTION	REMARKS
L-1	140(W) x 600(H) (3-COURSE HIGH) R/W 1-15M T&B C/W 90° END HOOKS & 10M SINGLE-LEGGED STIRRUPS AT 200 O.C.	
L-2	140(W) x 400(H) (2-COURSE HIGH) R/W 1-10M T&B C/W 90° END HOOKS & 10M SINGLE-LEGGED STIRRUPS AT 200 O.C.	

* LINTEL LENGTHS SHOWN ON DRAWING ARE CLEAR OPENING LENGTHS. CONTRACTOR SHALL CONFIRM ALL OPENING SIZES AND LOCATIONS WITH OTHER DISCIPLINES. NOTIFY ENGINEER OF ANY CHANGES PRIOR TO CONSTRUCTION.

REINFORCED CONCRETE BEAM SCHEDULE

ID	DESCRIPTION	REMARKS
CB-1	203(W) X 610(D) REINF. WITH 2-20M TOP & BOTTOM FLEXURAL REINF. @ 10M CLOSED STIRRUPS AT 305 O.C.	

STEEL BEAM SCHEDULE

ID	DESCRIPTION	REMARKS
SB-1	W150x14	SEE NOTE 3, 4, 5 & 6
SB-2	C150x12	SEE NOTE 1.
SB-3	W200x19	SEE NOTE 1.

* ALL BEAMS SHALL BE HOT-DIP GALVANIZED

NO.	DRAWING NUMBER	REFERENCE DRAWING TITLE
10		
9		
8		
7		
6		
5	1-0162L-S0004-005	SECTIONS & DETAILS
4	1-0162L-B0006-001	WALL SECTIONS & DETAILS - NEW
3	1-0162L-S0004-003	DETAILS - NEW
2	1-0162L-S0004-002	DETAILS - NEW
1	1-0162L-S0004-001	DETAILS - NEW

REFERENCE DRAWINGS

400 0 400 800 1200 1600
SCALE: 1:20

ENGINEERS GEOSCIENTISTS MANITOBA
Certificate of Authorization
KGS Group
No. 245

B.M.
ELEV.

NO.	REVISIONS	DATE (YY/MM/DD)	BY
0	ISSUED FOR CONSTRUCTION	2023 03 23	CMS

KGS GROUP

DESIGNED BY S. SUCHKOV
CHECKED BY CMS
DRAWN BY F. VALENCIA
APPROVED BY CMS
SCALE: HORIZONTAL AS SHOWN
VERTICAL
RELEASED FOR CONSTRUCTION
DATE 2023 03 23
DATE

ENGINEER'S SEAL
PROVINCE OF MANITOBA
S. SUCHKOV
Member
34686
REGISTERED PROFESSIONAL ENGINEER
2023-03-23

CONSULTANT DRAWING NUMBER
22-0107-004_S02

Winnipeg
THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
ENGINEERING DIVISION

METCALFE LIFT PUMPING STATION
2022 UPGRADES
STRUCTURAL
FOUNDATION AND ROOF FRAMING PLAN
NEW

CITY DRAWING NUMBER 1-0162L-S0002-001
SHEET 88 OF 109

PLOT DATE: 2023 03 23
BID OPPORTUNITY: 864-2022
FILE PATH: \\k-file-4\p-data\Projects\2022\22-0107-004\Dwg\Struct\