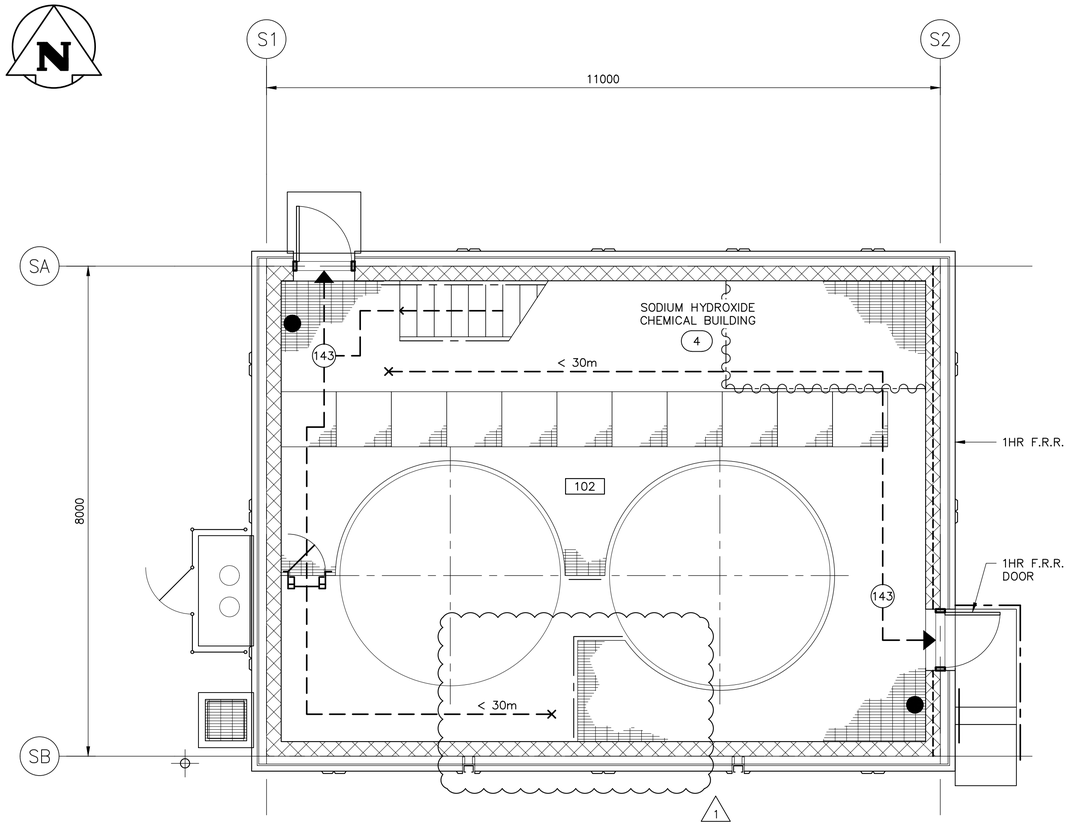
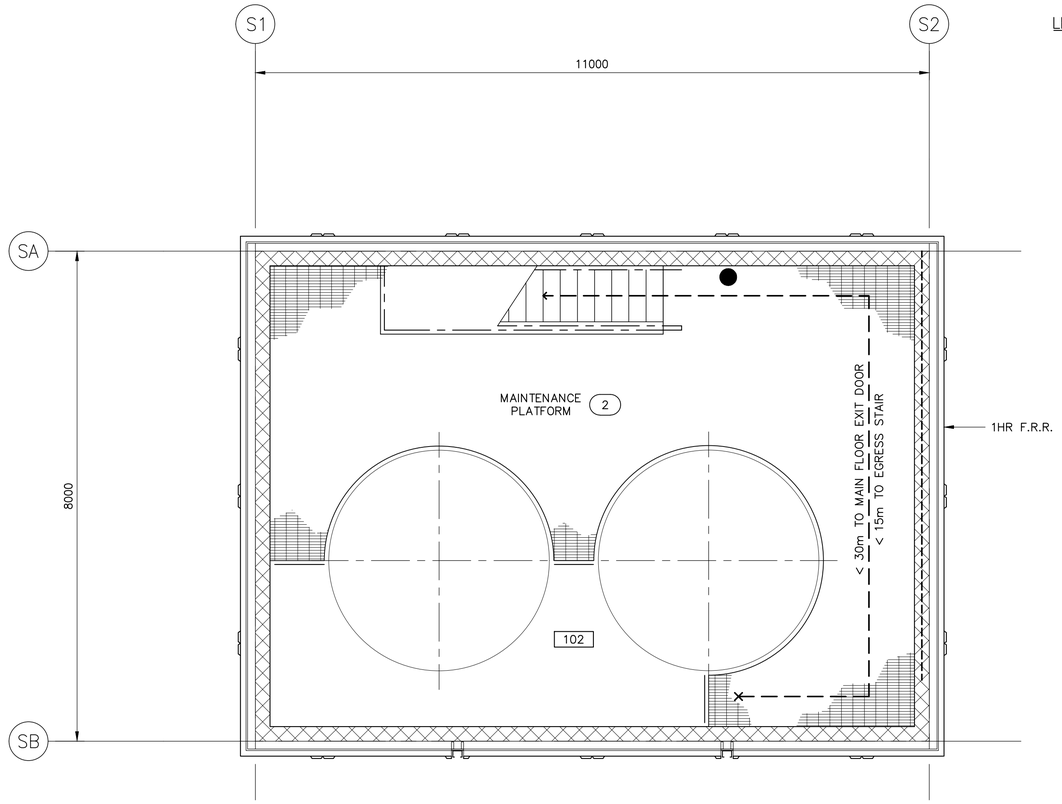


MAIN FLOOR PLAN

SCALE: 1:50



PLATFORM PLAN

SCALE: 1:50

LEGEND:

- EXISTING EXIT
- NEW EXIT
- (XX) ACTUAL OCCUPANT LOAD
- (XX) EXIT CAPACITY
- TRAVEL DISTANCE
- FIRE EXTINGUISHER

BUILDING CODE ANALYSIS:

BUILDING CLASSIFICATION (MBC 2011)

GOVERNING
CLASSIFICATION: F–3 (LOW–HAZARD INDUSTRIAL)
N.B.C. ARTICLE NO.: 3.2.2.85
– 1 STOREY IN BUILDING HEIGHT
– 5 600 sq.m. MAX. FACING 1 STREET
– HEAVY TIMBER OR NON–COMBUSTIBLE CONSTRUCTION

NEW BUILDING AREA: 98 sq.m.

NUMBER OF STOREYS: 1 STOREY
NUMBER OF STREETS BLDG. FACES: 1 STREET
BASEMENT: NO
SPRINKLERED: NO
CONSTRUCTION: NON–COMBUSTIBLE
TRAVEL DISTANCE: 30 m.
EMERGENCY LIGHTING REQ'D: YES
FIRE EXTINGUISHERS REQ'D: YES

FIRE SEPARATIONS: ROOMS
N/A

MAINTENANCE PLATFORM EGRESS 3.4.2.2.(2): 1 EGRESS STAIR REQ'D

MAXIMUM PLATFORM AREA: PERMITTED = 200sq.m. ACTUAL = 41sq.m.
DISTANCE LIMITS: PERMITTED = 15m ACTUAL = 12m

OCCUPANT LOAD: THEORETICAL
MAIN FLOOR 4 PERSONS
MAINTENANCE PLATFORM 2 PERSONS

HEALTH REQUIREMENTS: WATER CLOSETS
PROVIDED IN OTHER BUILDINGS ON SITE

SPATIAL SEPARATION

EXISTING CHEMICAL STORAGE BUILDING

WEST WALL
LIMITING DISTANCE: 2.5m
EXPOSED BLDG FACE: 50 SQ.M.
UNPROTECTED OPEN'G LIMIT: 12%
REQUIRED FIRE RATING: 1 HR (EXISTING CONC. BLK)
CONSTRUCTION: NONCOMBUSTIBLE
CLADDING: NONCOMBUSTIBLE

NEW CHEMICAL STORAGE BUILDING

NORTH WALL
LIMITING DISTANCE: 9.9
EXPOSED BLDG FACE: 69 SQ.M.
UNPROTECTED OPEN'G LIMIT: 100%
REQUIRED FIRE RATING: 0 HR

SOUTH WALL
LIMITING DISTANCE: 9.9 m.
EXPOSED BLDG FACE: 69 sq.m.
UNPROTECTED OPEN'G LIMIT: 100%
REQUIRED FIRE RATING: 0 HR

EAST WALL
LIMITING DISTANCE: 0 m.
EXPOSED BLDG FACE: 49.3 sq.m.
UNPROTECTED OPEN'G LIMIT: 4%
REQUIRED FIRE RATING: 1 HR
CONSTRUCTION: NONCOMBUSTIBLE
CLADDING: NONCOMBUSTIBLE

WEST WALL
LIMITING DISTANCE: 8.4 m.
EXPOSED BLDG FACE: 49.3 sq.m.
UNPROTECTED OPEN'G LIMIT: 100%
REQUIRED FIRE RATING: 0 HR

ENERGY CODE ANALYSIS:

NATIONAL ENERGY CODE (NECC 2015)

BUILDING ENVELOPE: PART 3

METHOD OF COMPLIANCE: PERSCRIPTIVE

ALLOWABLE FENESTRATION AND DOOR AREA: 3.2.1.4.

THEORETICAL
FDWR = (2000 – 0.2 x HDD)/3000
FDWR = (2000 – 0.2 x 5670)/3000
FDWR = 0.289

ACTUAL
FDWR = 4.4 sq.m. / 225 sq.m.
FDWR = 0.02

BUILDING ENVELOPE 3.2.2.2.
THERMAL TRANSMITTANCE REQUIREMENTS:

WALLS 0.210 W/(S.M.*K), (R27)
ROOF 0.162 W/(S.M.*K), (R35)

FENESTRATIONS 3.2.2.3.
THERMAL TRANSMITTANCE REQUIREMENTS:

ALL 2.0 W/(S.M.*K), (R2.84)

ASSEMBLIES IN CONTACT WITH THE GROUND 3.2.3.
THERMAL TRANSMITTANCE REQUIREMENTS:

WALLS 0.284 W/(S.M.*K), (R20)
FLOORS 0.757 W/(S.M.*K) FOR 1.2m, (R7.5)

NO.	DRAWING NUMBER	REFERENCE DRAWING TITLE
10	–	–
9	–	–
8	–	–
7	–	–
6	–	–
5	–	–
4	–	–
3	–	–
2	–	–
1	–	–

REFERENCE DRAWINGS

ENGINEERS GEOSCIENTISTS MANITOBA
Certificate of Authorization
KGS Group
No. 245

B.M.
ELEV.

CONSTRUCTION COMPLETION DATE: YYYY MM DD

NO.	REVISIONS	DATE	BY
1	RE–ISSUED FOR CONSTRUCTION	2022 06 17	JMW
0	ISSUED FOR CONSTRUCTION	2022 05 18	JMW

KGS GROUP

DESIGNED BY	SNH	CHECKED BY	JMW
DRAWN BY	SNH	APPROVED BY	JMW
SCALE:	1:50	RELEASED FOR CONSTRUCTION	
DATE	2022 03 01	DATE	

PLOT DATE: 2022 06 17

ENGINEER'S SEAL
PROVINCE OF MANITOBA
J.M. WALTER
Member
24941
REGISTERED PROFESSIONAL ENGINEER
2022-06-17

CONSULTANT DRAWING NUMBER
21–0107–015_B0.201

BID OPPORTUNITY: 197–2022
CONTRACT NUMBER:

Winnipeg

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
ENGINEERING DIVISION

NORTH END SEWAGE TREATMENT PLANT (NEWPCC)
INTERIM PHOSPHOROUS REMOVAL
AREA A – GENERAL

CODE COMPLIANCE
BUILDING 102

CITY DRAWING NUMBER 1–0101–BAAA–F003–002
SHEET 2 OF 2

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