



1 MAIN FLOOR PLAN
B01 SCALE: 1:75

HAZARDOUS MATERIALS:

- 1 THESE AREAS ARE RESERVED FOR THE SORTING AND STAGING OF THE FOLLOWING ITEMS:
- AEROSOLS LEVEL 2 OR 3 (HAIR SPRAY, SPRAY PAINT) - MAX 1000 kg
- CLASS 2.1 FLAMMABLE GAS (FUEL CYLINDERS) - MAX 25 kg
- CLASS 2.2 NON-FLAMMABLE AND NON-TOXIC (FIRE EXTINGUISHERS) - NO LIMIT
- CLASS 3 FLAMMABLE LIQUIDS (UNUSED OIL, PAINT, DIESEL FUEL, PAINT THINNER) - MAX 10,000 L
- CLASS 4.1 FLAMMABLE SOLIDS (FIRE STARTERS, YULE LOGS) - 100 kg
- CLASS 5.1 OXIDIZERS (BLEACH, POOL CLEANERS) - MAX 250 kg
- CLASS 6 POISONOUS AND INFECTIOUS (TOXIC, MERCURY) - NO LIMIT
- CLASS 8 CORROSIVES (ACIDS, CAUSTICS, CAR BATTERIES) - MAX 1000 kg
- CLASS 9 MISCELLANEOUS (PCB LIGHT BALLASTS) - NO LIMIT

WALL SCHEDULE:

- W1 EXTERIOR WALL
38 PRE-FIN. MTL SIDING
38x89 WD NAILING STRIPS
38 TYPE 3 RIGID EPS INSULATION
16 PLYWOOD SHEATHING
140 WD STUDS @400 O/C
R24 BATT INSULATION
VAPOUR BARRIER
16 PLYWOOD SHEATHING
- W2 EXTERIOR WALL
38 PRE-FIN. MTL SIDING
38x89 WD NAILING STRIPS
38 TYPE 3 RIGID EPS INSULATION
16 PLYWOOD SHEATHING
140 WD STUDS @400 O/C
R24 BATT INSULATION
VAPOUR BARRIER
16 GYPSUM BOARD
- W3 INTERIOR WALL (2 HR F.R.)
16 PLYWOOD SHEATHING
2 LYRS 16 'TYPE X' GYPSUM BOARD
140 WD STUDS @400 O/C
2 LYRS 16 'TYPE X' GYPSUM BOARD
16 PLYWOOD SHEATHING
- W4 INTERIOR WALL (2 HR F.R.)
16 PLYWOOD SHEATHING
2 LYRS 16 'TYPE X' GYPSUM BOARD
140 WD STUDS @400 O/C
R24 BATT INSULATION
VAPOUR BARRIER
2 LYRS 16 'TYPE X' GYPSUM BOARD
64 MTL STUDS @400 O/C
16 GYPSUM BOARD (OFFICE SIDE)
- W5 INTERIOR WALL
16 GYPSUM BOARD
89 WD STUDS @400 O/C
16 GYPSUM BOARD
- W6 INTERIOR PLUMBING WALL
16 GYPSUM BOARD
140 WD STUDS @400 O/C
16 GYPSUM BOARD
- W7 INTERIOR SOUND WALL
16 GYPSUM BOARD
89 WD STUDS @400 O/C
SOUND INSULATION
16 GYPSUM BOARD

BUILDING CODE ANALYSIS:

BUILDING CLASSIFICATION (NBC 2010)

GOVERNING CLASSIFICATION: F1 (STORAGE/SORTING WAREHOUSE FOR HAZARDOUS SUBSTANCES)

PART 9
9.10.1.3.4) WHERE ROOMS OR SPACES ARE INTENDED FOR THE STORAGE, MANUFACTURE OR USE OF HAZARDOUS OR EXPLOSIVE MATERIAL, SUCH ROOMS OR SPACES SHALL CONFORM TO PART 3.

N.B.C. ARTICLE NO.: 3.2.2.71

- 1 STOREY MAX.
- 800 sq.m. MAX. AREA
- COMBUSTIBLE/NON-COMBUSTIBLE CONSTR.
- NON-SPRINKLERED

BUILDING AREA: 367 sq.m.
NUMBER OF STOREYS: 1 STOREY
NUMBER OF STREETS BLDG. FACES: 1 STREET

BASEMENT: NO
SPRINKLERED: NO
CONSTRUCTION: COMBUSTIBLE/NON-COMBUSTIBLE
TRAVEL DISTANCE: 25 m.
EMERGENCY LIGHTING REQ'D: NO/YES
FIRE EXTINGUISHERS REQ'D: NO/YES
BARRIER-FREE ACCESSIBLE: MAIN FLOOR

FIRE SEPARATIONS:

ROOMS	SEPARATION
HOT WATER TANK ROOM	1 HR.
GRIDLINE 'B'	2 HR.
GRIDLINE 'D'	2 HR.

HAZARDOUS AREAS:

HAZARDOUS AREAS	SEPARATION
3.3.6.1.	SPECIFIC QUANTITIES OF DANGEROUS GOODS STORED IN THIS BUILDING IS GREATER THAN THOSE IDENTIFIED IN TABLE 3.2.7.1. OF DIVISION B OF THE NFC. THEREFORE THIS SECTION IS APPLICABLE.
3.3.6.2.	1) LIMITED QUANTITIES OF CLASS 5 OXIDIZING SUBSTANCES PRESENT. THEREFORE MUST BE SEPARATED FROM THE REMAINDER OF THE BUILDING BY A 2 HR F.S. 2) REACTIVE SUBSTANCES PRESENT. THEREFORE MUST BE SEPARATED FROM THE REMAINDER OF THE BUILDING BY A 2 HR F.S. 3) NO CLASS 1 DANGEROUS GOODS STORED WITHIN THE BUILDING. 4) ELECTRICAL EQUIPMENT AND WIRING IN HAZARDOUS LOCATIONS SHALL CONFORM TO PART 1 OF CANADIAN ELECTRICAL CODE CSA C22.1.
3.3.6.3.	1) QUANTITY OF CLASS 2.1 FLAMMABLE GASES STORED WITHIN THE BUILDING IS UNDER THE EXEMPT AMOUNT SPECIFIED IN NFC. 2) NO CLASS 2.2 OR 2.3 GASES STORED WITHIN THE BUILDING.
3.3.6.4.	1) FLAMMABLE AND COMBUSTIBLE LIQUIDS ARE SEPARATED FROM THE REMAINDER OF THE BUILDING AS SPECIFIED IN THE NFC, DIVISION B, 4.2.9.

OCCUPANT LOAD:

THEORETICAL	ACTUAL (MAXIMUM)
367 / 28	EMPLOYEES
	PUBLIC
	13 PERSONS
	6 PERSONS
	5 PERSONS

HEALTH REQUIREMENTS:
WATER CLOSETS
1 UNISEX WASHROOM

BUILDING CODE ANALYSIS (CONT'D):

SPATIAL SEPARATION:

WALL	LIMITING DISTANCE:	WALL AREA:	L/H RATIO:	UNPROTECTED OPEN'G LIMIT:	REQUIRED FIRE RATING:
NORTH WALL	62 m.	82 sq.m.	2.5:1	100%	0 HR.
SOUTH WALL	17 m.	82 sq.m.	2.5:1	100%	0 HR.
EAST WALL	20 m.	110 sq.m.	6:1	100%	0 HR.
WEST WALL	125 m.	110 sq.m.	6:1	100%	0 HR.

NATIONAL FIRE CODE (NFC 2010)

ROOMS	WALLS	HAZARDOUS AREAS
3.2.2.2.	4) CENTER ACCESS AISLE WIDTH GREATER THAN 2400mm.	
3.2.5.4.	MAXIMUM AMOUNT OF PACKAGED LEVEL 2 OR 3 AEROSOL PRODUCTS STORED INDOORS IS 1,000 kg.	
3.2.7.1.	MAXIMUM EXEMPT QUANTITY FOR CLASS 2.1 FLAMMABLE GASES STORED INDOORS IS 25 kg.	
3.3.6.1.	MAXIMUM EXEMPT QUANTITY FOR CLASS 5.1 OXIDIZERS STORED INDOORS IS 250 kg.	
3.2.7.9.	2) SUM OF INDIVIDUAL STORAGE AREAS FOR DANGEROUS GOODS, EXCLUDING CLASSES 3 & 9, IS LESS THAN 100 m ² .	
3.2.7.10.	MANUAL SMOKE VENTING USING OVERHEAD DOORS.	
3.2.7.11.	SPILL CONTROL USING SLOPED FLOORS AND CENTRAL SUMP PIT.	
4.2.7.5.	MAXIMUM AMOUNT OF CLASS 3 CLASS 1B FLAMMABLE LIQUIDS STORED INDOORS IS 10,000 L. MAXIMUM AMOUNT OF CLASS 3 CLASS 1A FLAMMABLE LIQUIDS STORED INDOORS IS 0L.	

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LOCATION APPROVED UNDERGROUND STRUCTURES

SUPV. U/G STRUCTURES COMMITTEE DATE

NOTE:
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
	0	ISSUED FOR TENDER	17/03/29	

KGS GROUP CONSULTING ENGINEERS

DESIGNED BY: DJP
DRAWN BY: MBB
CHECKED BY: CMS
APPROVED BY: [Signature]
HOR. SCALE: AS NOTED
VERTICAL: AS NOTED
RELEASED FOR CONSTRUCTION: [Signature]
DATE: 16/08/11

ENGINEER'S SEAL

PETRAK
Member
24092
PROFESSIONAL ENGINEER

CONSULTANT DRAWING NO.
16-0107-010

THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT

PROJECT TITLE: 4R WINNIPEG DEPOT EAST WINNIPEG COMMUNITY RESOURCE RECOVERY CENTRE

HHW BUILDING MAIN FLOOR PLAN AND NOTES

SHEET 10 OF 41
COMPUTER FILE NAME: 16-0107-010
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