

NATIONAL BUILDING CODE MATRIX (2010)

HIGH RATE CLARIFICATION BUILDING (HRC)
(NEW BUILDING)

NBC REFERENCE
(REFERENCES ARE TO
DIVISION B UNLESS NOTED
[A] FOR DIVISION A OR
[C] FOR DIVISION C

ITEM

1. PROJECT DESCRIPTION: NEW ALTERATION PART 3, 1.3.3.1-.3 [A]
 ADDITION CHANGE OF USE

2. MAJOR OCCUPANCY(S): F-2 MEDIUM HAZARD INDUSTRIAL 3.1.2.1.(1)

3. BUILDING AREA: EXISTING NEW TOTAL 1.4.1.2 [A]
-- 1150 1150 SQ.M.

4. GROSS AREA: EXISTING NEW TOTAL 1.4.1.2 [A]
-- 2300 2300 SQ.M.

5. NUMBER OF STOREYS: ABOVE GRADE - 1 BELOW GRADE - 1 1.4.1.2 [A] & 3.2.1.1

6. NUMBER OF STREETS/FIRE FIGHTER ACCESS: 1 3.2.2.10 & 3.2.5

7. BUILDING CLASSIFICATION: GROUP F, DIVISION 2 3.2.2.74

8. SPRINKLER SYSTEM PROPOSED: ENTIRE BUILDING 3.2.2.74
 SELECTED COMPARTMENTS 3.2.1.5
 SELECTED FLOOR AREAS
 BASEMENT
 NOT REQUIRED

9. STANDPIPE REQUIRED: YES NO 3.2.5.8-.12

10. FIRE ALARM REQUIRED: YES NO 3.2.4

11. WATER SERVICE/SUPPLY IS ADEQUATE: YES NO 3.2.5.7

12. HIGH BUILDING YES NO 3.2.6

13. CONSTRUCTION RESTRICTIONS: COMBUSTIBLE NON-COMBUSTIBLE BOTH 3.2.2.74
ACTUAL CONSTRUCTION: COMBUSTIBLE NON-COMBUSTIBLE BOTH

14. MEZZANINE(S) AREA: N/A SQ.M. 3.2.1.1(3)-(8)

15. OCCUPANT LOAD BASED ON: SQ. M. PER PERSON BUILDING DESIGN 3.1.17
(4 PERSONS MAXIMUM, NORMALLY UNOCCUPIED)

16. BARRIER-FREE DESIGN: YES NO (NORMALLY UNOCCUPIED) 3.8

17. HAZARDOUS SUBSTANCES: YES NO 3.3.1.2 & 3.3.1.20

18. REQUIRED FIRE RESISTANCE RATINGS (FRR): 3.2.2.74 & 3.2.1.4

HORIZONTAL ASSEMBLIES	FLOORS	FRR (HRS)		LISTED DESIGN NO./DESCRIP.	SUPPORTING ASSEMBLIES	FLOORS	FRR (HRS)		LISTED DESIGN NO./DESCRIP.
		3/4	AS DESIGNED				3/4	AS DESIGNED	
	ROOF	N/A	N/A			ROOF	N/A	N/A	
	MEZZANINE	N/A	N/A			MEZZANINE	N/A	N/A	

19. SPATIAL SEPARATION - CONSTRUCTION OF EXTERIOR WALLS: SEE ARCHITECTURAL SITE PLAN 3.2.3

20. FIRE RATED SEPARATIONS:

	FIRE SEPARATION REQUIRED (HRS)		FIRE SEPARATION REQUIRED (HRS)
ELECTRICAL ROOM	1 HR	CLARIFIER ROOM	1 HR
MECHANICAL ROOM	1 HR	LOADING AREA	1 HR
STAIRS	1 HR	PIPE GALLERY	1 HR
BALLAST ROOM AND PIT	1 HR	SUMP ACCESS ROOM	1 HR
		--	--

201 FIRE FIRE WALL SEPARATION: 3.1.10.1 & 3.1.10.2

FOUR HOURS FIRE RESISTANT RATING WALL CONSISTS OF:
TWO CONCRETE/MASONRY WALLS OF TWO HOURS FRR FOR EACH,
BETWEEN HRC AND EXISTING PRIMARY CLARIFIER BUILDING.

NATIONAL BUILDING CODE MATRIX (2010)

GRIT TANKS 1 & 2 BUILDING
(NEW BUILDING - ENTIRE BELOW GRADE STRUCTURE)

NBC REFERENCE
(REFERENCES ARE TO
DIVISION B UNLESS NOTED
[A] FOR DIVISION A OR
[C] FOR DIVISION C

ITEM

1. PROJECT DESCRIPTION: NEW ALTERATION PART 3, 1.3.3.1-.3 [A]
 ADDITION CHANGE OF USE

2. MAJOR OCCUPANCY(S): F-2 MEDIUM HAZARD INDUSTRIAL 3.1.2.1.(1)

3. BUILDING AREA: EXISTING NEW TOTAL 1.4.1.2 [A]
-- 235 235 SQ.M.

4. GROSS AREA: EXISTING NEW TOTAL 1.4.1.2 [A]
-- 235 235 SQ.M.

5. NUMBER OF STOREYS: ABOVE GRADE - 0 BELOW GRADE - 1 1.4.1.2 [A] & 3.2.1.1

6. NUMBER OF STREETS/FIRE FIGHTER ACCESS: 1 3.2.2.10 & 3.2.5

7. BUILDING CLASSIFICATION: GROUP F, DIVISION 2 3.2.2.74

8. SPRINKLER SYSTEM PROPOSED: ENTIRE BUILDING 3.2.2.74
 SELECTED COMPARTMENTS 3.2.1.5
 SELECTED FLOOR AREAS
 BASEMENT
 NOT REQUIRED

9. STANDPIPE REQUIRED: YES NO 3.2.5.8-.12

10. FIRE ALARM REQUIRED: YES NO 3.2.4

11. WATER SERVICE/SUPPLY IS ADEQUATE: YES NO 3.2.5.7

12. HIGH BUILDING YES NO 3.2.6

13. CONSTRUCTION RESTRICTIONS: COMBUSTIBLE NON-COMBUSTIBLE BOTH 3.2.2.20-.83
ACTUAL CONSTRUCTION: COMBUSTIBLE NON-COMBUSTIBLE BOTH

14. MEZZANINE(S) AREA: N/A SQ.M. 3.2.1.1(3)-(8)

15. OCCUPANT LOAD BASED ON: SQ. M. PER PERSON BUILDING DESIGN 3.1.17
(4 PERSONS MAXIMUM, NORMALLY UNOCCUPIED)

16. BARRIER-FREE DESIGN: YES NO 3.8

17. HAZARDOUS SUBSTANCES: YES NO 3.3.1.2 & 3.3.1.20

18. REQUIRED FIRE RESISTANCE RATINGS (FRR): 3.2.2.20-.83 & 3.2.1.4

HORIZONTAL ASSEMBLIES	FLOORS	FRR (HRS)		LISTED DESIGN NO./DESCRIP.	SUPPORTING ASSEMBLIES	FLOORS	FRR (HRS)		LISTED DESIGN NO./DESCRIP.
		3/4	AS DESIGNED				3/4	AS DESIGNED	
	ROOF	N/A	N/A			ROOF	N/A	N/A	
	MEZZANINE	N/A	N/A			MEZZANINE	N/A	N/A	

19. SPATIAL SEPARATION - CONSTRUCTION OF EXTERIOR WALLS: SEE ARCHITECTURAL SITE PLAN 3.2.3

20. FIRE RATED SEPARATIONS:

	FIRE SEPARATION REQUIRED (HRS)		FIRE SEPARATION REQUIRED (HRS)
STAIR	1 HR		

21. FIRE FIRE WALL SEPARATION: 3.1.10.1 & 3.1.10.2

FOUR HOURS FIRE RESISTANT RATING WALL CONSISTS OF:
TWO CONCRETE/MASONRY WALLS OF TWO HOURS FRR FOR EACH,
BETWEEN HRC AND EXISTING PRIMARY CLARIFIER BUILDING.

NATIONAL BUILDING CODE MATRIX 2010

RENOVATION OF EXISTING PRIMARY CLARIFIER BUILDING

LOCATION: CITY OF WINNIPEG
PROJECT : SEWPCC UPGRADING/EXPANSION PROJECT
PRIMARY CLARIFIERS 1 AND 2

ITEM

11.1 EXISTING BUILDING CLASSIFICATION: DESCRIBE EXISTING USE: _____
CONSTRUCTION INDEX: _____
HAZARD INDEX: _____
 NOT APPLICABLE (NO CHANGE OF MAJOR OCCUPANCY)

11.2 ALTERATIONS TO EXISTING BUILDING IS: BASIC RENOVATION
EXTENSIVE RENOVATION

11.3 REDUCTION IN PERFORMANCE LEVEL: 11.4.2

STRUCTURAL: NO YES 11.4.2.1
BY INCREASE IN OCCUPANT LOAD: NO YES 11.4.2.2
BY CHANGE OF MAJOR OCCUPANCY: NO YES 11.4.2.3
PLUMBING : NO YES 11.4.2.4
SEWAGE SYSTEM: NO YES 11.4.2.5

11.4 COMPENSATING CONSTRUCTION: 11.4.3

STRUCTURAL: NO YES (EXPLAIN) 11.4.3.2
BY INCREASE IN OCCUPANT LOAD: NO YES (EXPLAIN) 11.4.3.3
BY CHANGE OF MAJOR OCCUPANCY: NO YES (EXPLAIN) 11.4.3.4
PLUMBING : NO YES (EXPLAIN) 11.4.3.5
SEWAGE SYSTEM: NO YES (EXPLAIN) 11.4.3.6

11.5 COMPLIANCE ALTERNATIVES PROPOSED: NO 11.5.1
 YES (GIVE NUMBER (S))



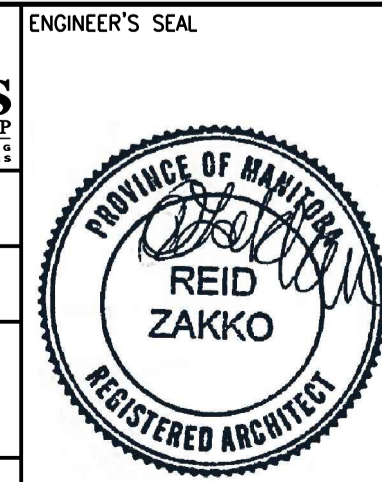
NO.	REVISIONS	DATE	DESIGN	CHECK
00	ISSUED FOR TENDER	08/2015	N.B.	J.C.

CH2MHILL CANADA Architects Inc.

DESIGNED BY: R. ZAKKO
DRAWN BY: J. LIN
SCALE: NTS
DATE: 2015/08/13

CHECKED BY: B. KOLIS-HUPA
APPROVED BY: R. ZAKKO
ISSUED FOR CONSTRUCTION BY: T. TURZAK
DATE: 2015/08/13

CONSULTANT NO.: 474248



THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT

SOUTH END WATER POLLUTION CONTROL CENTRE
SEWPCC UPGRADING/EXPANSION PROJECT
BUILDING
BUILDING CODE MATRIXES - PART 1

CITY DRAWING NUMBER: 1-0102-BDTL-A002
SHEET: 00
REV: 00
SIZE: A1