

2017 — 10:17am 01—5515099\5515038 — 2015 NE Exchange\MMM Drawings\2016 Structural Work\NE Exchange_John H Struct—Lily & Galt Chamber Rehab.dwg —ta

∍b 03. 2017 — 10:17am

1.	DESIGN IN ACCORDANCE WITH NATIONAL BU AMENDMENTS.	JILDING CODE O	F CANADA 2015 ED	TION PLUS LATEST MANI	
2.	AMENDMENTS. ANY UNSOUND STRUCTURAL CONDITIONS OBSERVED OR CREATED DURING CONSTRUCTION SHAL REPORTED IMMEDIATELY TO CONTRACT ADMINISTRATOR.			ONSTRUCTION SHALL BE	
3.	DRAWINGS SHALL NOT BE SCALED.				
4.	STRUCTURAL DRAWINGS MAY NOT SHOW ALL MECHANICAL OPENINGS. NOTIFY THE CONTRACT ADMINISTRATOR OF ANY ADDITIONAL OPENINGS.				
5.	DESIGN LOADS AS NOTED BELOW:				
. •	SUPERIMPOSED DEAD LOAD:				
	a. 125 mm THICK ASPHALT PAVEMENT:	2.94 kPa			
	b. 75 mm THICK BASE COURSE:	1.65 kPa			
	c. 388 mm THICK GRANULAR FILL:	8.5 kPa			
	LIVE LOAD:				
	a. CL-625 STANDARD VEHICLE				
6.	ALL DIMENSIONS IN MILLIMETRES UNLESS N	OTED OTHERWI	SE.		
	ST IN PLACE CONCRETE:				
1. 2.	TO BE READ IN CONJUNCTION WITH CW 2160				
2. 3.	CONCRETE WORK SHALL BE IN ACCORDANC ROOF CONCRETE MIX SHALL BE IN ACCORD/				
5.	PROPERTIES:				
	a. CLASS OF EXPOSURE:		S-1		
	b. MINIMUM COMPRESSIVE STRENGTH	AT 28 DAYS:	35 MPa		
	c. MAXIMUM SLUMP:		80mm ± 20mm		
		5 - 8%			
4.	e. MAXIMUM WATER/CEMENT RATIO: 0.40 ISOLATION CONCRETE MIX SHALL BE IN ACCORDANCE WITH TYPE 1, AND SHALL HAVE THE FOLLOWING				
-т.	PROPERTIES:				
	a. CLASS OF EXPOSURE:		C-2		
	b. MINIMUM COMPRESSIVE STRENGTH	AT 28 DAYS:	32 MPa		
	c. MAXIMUM SLUMP:		70mm ± 20mm		
	d. AIR CONTENT: e. MAXIMUM WATER/CEMENT RATIO:		5 - 8% 0.45		
5.	CONCRETE COVER SHALL BE 50mm.		0.40		
6.	CHAMFER ALL EXTERIOR CORNERS 20mm.				
7.					
	CONSTRUCTED ACCURATELY SO THAT RESULTANT FINISHED CONCRETE CONFORMS TO THE SHAPES AND DIMENSIONS INDICATED ON THE DRAWINGS.				
8.	FOR COLD WEATHER CONCRETING, ALL ICE, SNOW AND FROST SHALL BE REMOVED FROM THE FORMWO AND THE TEMPERATURE OF ALL CONTACT SURFACES INCLUDING REINFORCING STEEL SHALL BE RAISED ABOVE 10°C FOR AT LEAST 24 HOURS PRIOR TO CASTING CONCRETE. CONCRETE SHALL NOT BE LESS T 20°C NOR MORE THAN 30°C WHEN DEPOSITED. CONCRETE SHALL BE ENCLOSED, AND THIS AREA SHALL HAVE A TEMPERATURE OF NOT LESS THAT 20°C FOR 5 DAYS AND NOT LESS THAN 5°C FOR AN ADDITIONAL				
9.	DAYS. THREE CONCRETE TEST CYLINDERS AND ONE SLUMP/AIR TEST SHALL BE TAKEN EACH DAY THAT CON IS PLACED, AND SHALL BE REPEATED FOR EVERY 20 m³ OF CONCRETE PLACED EACH DAY UNLESS				
	OTHERWISE DIRECTED BY THE CONTRACT A				
	NOTIFY THE CONTRACT ADMINISTRATOR OR	TESTING AGEN	CY 48 HOURS PRIO	R TO PLACING CONCRET	
RE	INFORCING STEEL:				
1.					
2.					
3. 4.					
ч.	LAPS SHALL BE AT LEAST 40 BAR DIAMETERS, LOCATE REINFORCING SPLICES NOT INDICATED IN THE DRAWINGS AT POINTS OF MINIMUM STRESS.				
5.	BEFORE PLACING CONCRETE, ENSURE REINFORCING IS CLEAN, FREE OF LOOSE SCALE, DIRT OR OTHER				
		REIGN MATTER THAT WOULD REDUCE OR PREVENT BOND TO THE CONCRETE.			
6.	SHOP DRAWINGS SHALL BE SUBMITTED WHICH CLEARLY INDICATE BAR SIZES, SPACING, LOCATIONS AN QUANTITIES OF REINFORCING STEEL. COPIES OF STRUCTURAL DRAWINGS WILL NOT BE ACCEPTED FOF AS SHOP DRAWINGS.				
WA	ATERPROOFING MEMBRANE:				
1.	INSTALL WATERPROOFING MEMBRANE AS P				
2.	WATERPROOFING MEMBRANE: STYRENE-BU PREFABRICATED SHEET, REINFORCED WITH POLYETHYLENE FILM. BOTTOM SURFACE: TI	NON-WOVEN PO HERMOFUSIBLE	DLYESTER WEIGHIN PLASTIC FILM. ACC	NG 180 g/m². TOP SURFAC CEPTABLE MATERIAL:	
2	SOPREMA SOPRALENE FLAM 180, IKO AQUAE				
3.	PRIMES, MASTIC SEALANT AND ACCESSORIE APPLICABLE FOR SUBSTRATE.	:5: AS RECOMME	ENDED BY MEMBRA	INE MANUFAC FURER,	
4.	PROTECTION BOARD: INSULATING FIBREBOA	ARD TO CAN/CSA	A-A247, TYPE II . 12m	m THICK.	
5.	INSTALLATION OF WATERPROOFING MEMBR				
	TRAINED BY MANUFACTURER FOR APPLICAT YEARS PROVEN EXPERIENCE. IF REQUESTE MANUFACTURER.	ION OF ITS PRO	DUCTS. APPLICAT	ORS MUST HAVE MINIMUN	
6.	MAINTAIN AIR TEMPERATURE AND STRUCTU	RAL BASE TEMP	ERATURE AT INST	ALLATION AREA ABOVE	
	MEMBRANE MANUFACTURER'S RECOMMEND				
7.	FOR APPLICATIONS IN FREEZING WEATHER DO NOT COMMENCE APPLICATION UNTIL AUTHORIZED B MEMBRANE MANUFACTURER.				
8.	MEMBRANE MANUFACTURER.		G MEMBRANES TO	PROTECT AGAINST	
	BACKFILLING OPERATIONS.				
9.	INSTALL BOARDS VERTICALLY WITHOUT FAS	TENERS OR AD	HESIVES.		
10.	INSTALL PROTECTION BOARD DURING BACK			ACKFILL MATERIALS TO H	
г <i>.</i>	PROTECTION BOARD TIGHT TO WATERPROC	FING MEMBRAN	E.		
<u>BA(</u> 1.	<u>CKFILL:</u> NO BACKFILL SHALL BE PLACED AGAINST CC AND IN NO CASE BEFORE FIELD CURED TES ⁻ THAT SPECIFIED. EXCAVATE AND PLACE BA	T CYLINDER SHO	OW THE CONCRETE	STRENGTH TO BE 75% O	
	3110.		, , , , , , , , , , , , , , , , , , ,		
			F WINN	_	
	Minninga		RVICES DIVI		
				CONSULTANT DRAWING NUMBER:	
				-	
	CITY OF WIN	INIPEG		5515038-GC-0	

27-2017	
01/17/2017	

NEW ROOF CONCRETE, REINFORCING AND
MANHOLE ISOLATION DETAILS

LILY STREET/GALT AVENUE INTERSECTION

UNDERGROUND COMMINUTOR STRUCTURE ROOF REPLACEMENT

SHEET OPF 2 2 CITY DRAWING No.