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G MASONRY

- 1 MASONRY CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH CAN/CSA-A371-14, UNLESS NOTED.
- 2 MASONRY REINFORCEMENT AND TYING SHALL BE IN ACCORDANCE WITH CSA S304.1-14.
- 3 CONCRETE BLOCKS SHALL CONFORM TO CSA A165 SERIES-14.
- 4 MATERIALS USED IN CONCRETE MASONRY SHALL CONFORM TO CSA A165 SERIES-14.
- 5 MASONRY MORTAR FOR LOAD BEARING WALLS SHALL BE TYPE S BASED ON PROPERTY AND PROPORTION SPECIFICATIONS OF CAN/CSA-A179-14 WITH A 28 DAY STRENGTH OF 12.4 MPa.
- 6 PROVIDE NO. 9 A.S.W.G.28. 'DUR-O-WALL' OR 'BLOK-LOK', LADDER TYPE, STANDARD, 3.76mm (9/64") SIDE RODS AND CROSS BARS, WELDED, TO ASTM A82/A82M-07 FOR COLD DRAWN STEEL. USE REINFORCING AT MAXIMUM SPACING OF 400mm (16") WITHIN EVERY SECOND MORTAR JOINT UNLESS NOTED.
- 7 PROVIDE CLEAN-OUTS AT BOTTOM OF ALL FILLED CORES. REMOVE ALL MORTAR FLASH AND DEBRIS FROM WITHIN CORE PRIOR TO FILLING.
- 8 PROVIDE MATCHING DOWELS EXTENDING FROM CONCRETE FOUNDATION INTO MASONRY WALLS AT ALL REINFORCED CORES.
- 9 ALL REINFORCED CORES AND BLOCK COURSES SHALL BE FILLED WITH CONCRETE. VIBRATE WITH AN INTERNAL "PENCIL" TYPE VIBRATOR.
- 10 CONCRETE LIFTS SHALL NOT EXCEED 2400mm (94").
- 11 LAP ALL REINFORCING 600mm (24") MINIMUM UNLESS NOTED OTHERWISE. DETAIL TO SUIT CONCRETE LIFT CRITERIA WHERE APPLICABLE.
- 12 WHERE MASONRY, CONCRETE OR STEEL LINTELS BEAR ON A MASONRY WALL, FILL ONE COURSE 200mm (8") MIN BELOW AND ONE CORE 200mm (8") WIDE WITH CONCRETE UNLESS NOTED OTHERWISE.
- 13 FILL ONE CORE EACH SIDE OF WALL OPENINGS LESS THAN 1200mm (48") WITH CONCRETE AND REINFORCE WITH 1-15M VERTICAL (FULL HEIGHT), TYPICAL UNLESS NOTED OTHERWISE. EXTEND VERTICAL REINFORCING THROUGH LINTEL AND INTO BOND BEAM.
- 14 LINTELS SHALL BE A 200 DEEP KNOCK OUT BLOCK WHERE HIDDEN FROM VIEW IN FINISHED WALL AND A 200 DEEP U-BLOCK WHERE EXPOSED TO VIEW IN FINISHED WALL UNLESS NOTED OTHERWISE.
- 15 BOND BEAMS SHALL BE A 200 DEEP KNOCK OUT BLOCK, FILLED WITH 30 MPa CONCRETE AND REINFORCED WITH 2-15M CONTINUOUS REINFORCING, TYPICAL UNLESS NOTED OTHERWISE. PROVIDE A BOND BEAM AT THE TOP COURSE OF ALL WALLS UNLESS NOTED OTHERWISE.
- 16 INTERLOCK ALL WALL INTERSECTIONS OR PROVIDE MECHANICAL TIES @ 400mm (16") o/c UNLESS NOTED OTHERWISE.

- 17 FILL CORES WITH CONCRETE WHERE REQUIRED TO SUPPORT EMBEDDED OR DRILLED ANCHORS, INSERTS, SERVICES, ETC.
- 18 TEMPORARY BRACING SHALL BE PROVIDED FOR ALL WALLS UNTIL STRUCTURE IS CLOSED IN, AND PERMANENT SUPPORT IS PROVIDED. SUBMIT BRACING DETAILS SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF MANITOBA TO THE ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION.
- 19 MORTAR TEST SHALL BE TAKEN IN ACCORDANCE WITH CSA S304-14 AND CAN/CSA-179-14; A COPY OF RESULTS SHALL BE SUBMITTED TO THE ENGINEER.
- 20 COLD-WEATHER REQUIREMENTS IN ACCORDANCE WITH THE NBCC 2010 SHALL BE IMPLEMENTED WHEN NECESSARY. NO "TORCHING TECHNIQUES" OR MORTAR ADMIXTURES WILL BE ALLOWED.
- 21 PROVIDE CAVITY WALL BRICK TIES AS MANUFACTURED BY FERO HOLDINGS LTD. OR APPROVED EQUAL-STAINLESS STEEL. MAXIMUM SPACING OF 400mm (16") VERTICALLY AND 800mm (32") HORIZONTALLY UNLESS NOTED OTHERWISE.
- 22 PROVIDE CONCRETE FILL FOR ONE (1) FULL COURSE ALL AROUND ANCHORS. TYPICAL UNLESS NOTED OTHERWISE.
- 23 MASONRY BOND BEAMS TO BE CONTINUOUS (SLOPED) FOR SLOPING ROOF SYSTEMS AS REQUIRED. OTHERWISE BOND BEAMS TO BE HORIZONTAL AND CONTINUOUS.
- 24 INSTALLER / MASON TO BE A RED SEAL BRICK LAYER / MASON.
- 25 APPLY ANTI-GRAFFITI COATING ON BRICK SURFACE.

H STEEL DECK

- 1 DESIGN, FABRICATE AND ERECT STEEL DECK IN ACCORDANCE WITH CAN/CSA-S136-12 PACKAGE AND CSSBI STANDARDS.
- 2 SHEET STEEL TO BE MINIMUM GRADE A STRUCTURAL QUALITY CONFORMING TO THE ASTM A653/A653M-15e1.
- 3 STEEL DECK PROFILE TO BE AS NOTED ON THE DRAWINGS. MAXIMUM FLUTE SIZE TO BE 150mm (6").
- 4 STEEL DECK MATERIAL TO BE GALVANIZED STEEL TO CONFORM TO ASTM A653/A653M-15e1, GRADE A:
 - GALVANIZING TO BE HOT-DIP CONFORMING TO ASTM A653/A653M-15e1, DESIGNATION Z275.
 - FLUTE SPACING MAXIMUM 150mm (6").
 - REFER TO DRAWINGS FOR DECK DEPTH AND THICKNESS.

- 5 CONNECT STEEL ROOF DECK TO EXISTING METAL DECK AT STANDING SEAMS AT 300o/c WITH #12 HEX WASHER HEAD, SELF-DRILLING SCREWS OF GAUGES AND LENGTHS SUITABLE FOR STEEL THICKNESS OF STRUCTURAL SUPPORT (TEKS/4 OR TEKS/5, OR EQUAL). FASTEN SIDE LAPS IN ROOF DECK AT 600o/c MAXIMUM WITH 10-16x3/4 HEX WASHER HEADS (TEKS/1 OR EQUAL) WITH PILOT POINT.
- 6 WELDING TO CONFORM TO THE REQUIREMENTS OF CSA W59, BY WELDERS QUALIFIED BY CANADIAN WELDING BUREAU ERECTOR COMPANIES CERTIFIED UNDER CSA W47.1-09. WELDS TO BE 19mm DIAMETER FUSION WELDS. METAL WASHERS SHALL BE USED AT ALL WELD LOCATIONS.
- 7 STEEL ROOF DECK IS DESIGNED AS A DIAPHRAGM DECK WITH A MAXIMUM LIVE LOAD DEFLECTION OF 1/240 OF THE SPAN.
- 8 SUPPLY ALL CLOSURES, CLOVER PLATES AND ACCESSORIES.
- 9 SUBMIT STEEL DECK SHOP DRAWINGS, SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF MANITOBA, TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION. DRAWINGS TO INDICATE STEEL DECK LAYOUT, STEEL DECK TYPE AND PROFILE, AND CONNECTIONS TO FRAMING MEMBERS.

J STEEL STUDS

- 1 STEEL STUD MATERIAL TO BE GALVANIZED STEEL TO ASTM A653/A653M-15e1, 600S162-68.
- 2 STEEL STUDS AS INDICATED ON DRAWINGS, FLANGED, STIFFENED, PERFORATED SECTIONS CONFORMING TO BAILEY-MAINTAIN, CSM INC. OR EQUAL. START AND CONNECT STUDS AT ENDS OF STRUCTURE.
- 3 PROVIDE CONTINUOUS HORIZONTAL SOLID BRIDGING CHANNEL AT SPACING NOT EXCEEDING 1220mm (48"). INSTALL NOTCHED CHANNEL ON EACH STUD FACE OR USE ANGLE CLIPS WITH BRIDGING CHANNELS THROUGH PERFORATION. ALL CONNECTED WITH 2 SCREWS.
- 4 USE LOW-PROFILED PAN HEAD BUILDTEX TEKS NO.12-14 D-.157 SCREWS OR EQUAL, IN STUDS, BRIDGING, STRAP, CLIP ANGLE, AND TRACK CONNECTIONS.
- 5 SUBMIT SHOP DRAWINGS WHICH CLEARLY INDICATE STEEL STUD SPACING, THICKNESS, LOADING, ANCHORAGE DETAILS, FRAMED OPENINGS, ACCESSORIES, ETC., SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF MANITOBA TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION.

TABLE B.1					
READ IN CONJUNCTION WITH DESIGN NOTES SECTION B. CAST-IN-PLACE CONCRETE					
CONTROLLED CONCRETE					
CONCRETE LOCATION	MAX. AGG. SIZE	STRENGTH	EXPOSURE CLASS	AIR CONTENT	CEMENT TYPE
PILES	20 mm	32 MPa	S-2	4-7%	HS/HSb
GRADE BEAMS	20 mm	35 MPa	S-1	4-7%	HS/HSb
SLABS	20 mm	35 MPa	C-1	5-8%	GU/GUb
MASONRY FILL	10-14 mm	25 MPa	N	-%	GU/GUb

TABLE B.2	
READ IN CONJUNCTION WITH DESIGN NOTES SECTION B. CAST-IN-PLACE CONCRETE	
CONCRETE COVER TO REINFORCEMENT	
PILES	75 mm
STRUCTURAL SLABS - TOP	25 mm
STRUCTURAL SLABS - BOTTOM	25 mm
SLABS EXPOSED TO DE-ICING SALTS - TOP	50 mm
BEAMS TO STIRRUPS	40 mm

TABLE B.4		
READ IN CONJUNCTION WITH DESIGN NOTES SECTION B. CAST-IN-PLACE CONCRETE		
REINFORCEMENT SPLICES (UNLESS NOTED OTHERWISE)		
BAR SIZE	FULL TENSION SPLICE	FULL TENSION SPLICE FOR TOP BARS
15M	550	750
20M	700	900
25M	1100	1400
NOTE 1: APPLIES TO REINFORCEMENT SPLICES NOT OTHERWISE DETAILED.		
NOTE 2: LAP SPLICE SCHEDULE IS FOR CLASS B SPLICE.		
NOTE 3: FOR STANDARD EMBEDMENT DEPTH INTO CONCRETE DIVIDE TENSION LAP SPLICE NUMBERS BY 1.3.		

ORIGINAL SHEET - ISO 11x17 - v17.05

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A	ISSUED FOR CONSTRUCTION	IR	BF 2018.05.07
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Client/Project
CITY OF WINNIPEG PLANNING, PROPERTY & DEVELOPMENT
GORD DONG PARK REDEVELOPMENT
Winnipeg, Manitoba

Figure No.
S-002

Title
GENERAL NOTES PART 2
FOR COMMUNITY OVEN ENCLOSURE