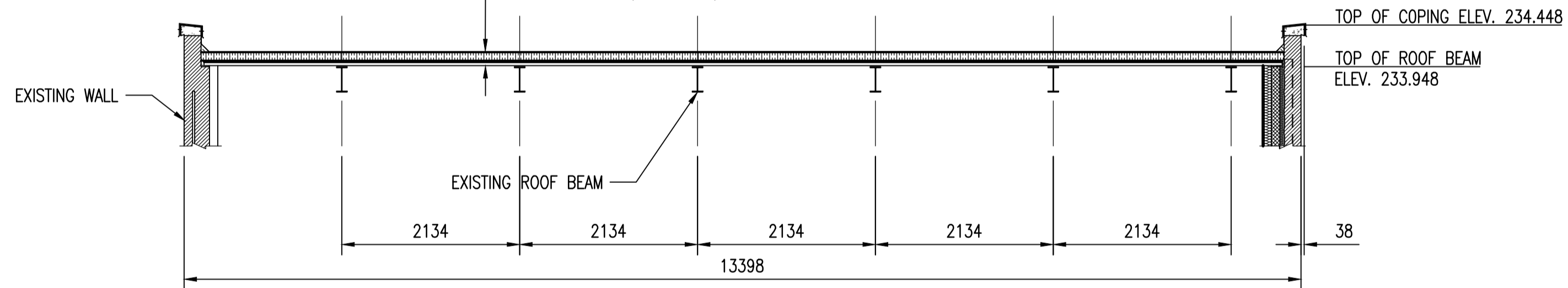


MAIN FLOOR ROOF PLAN (NEW)

SCALE: 1 : 50

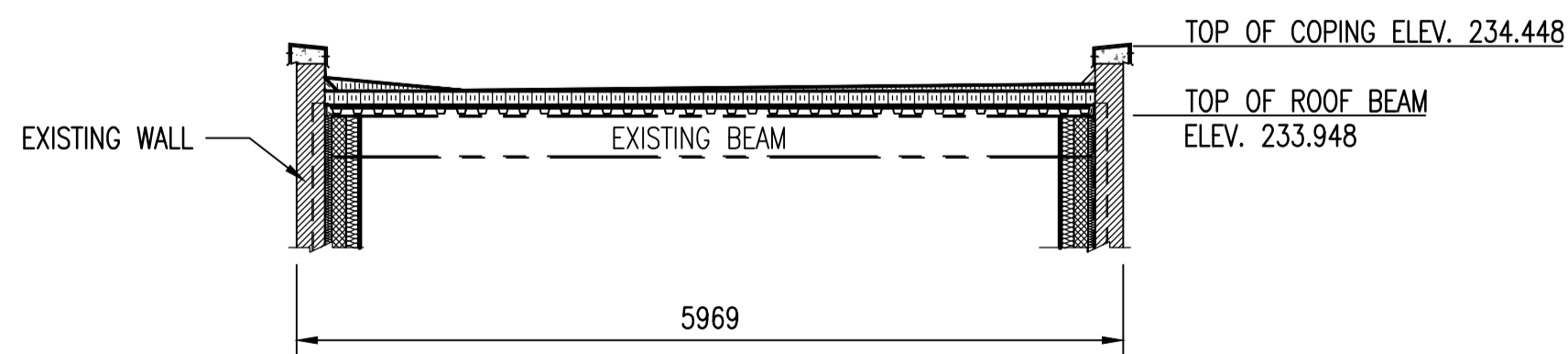
ROOF CONSTRUCTION
 1.6 (60 MIL) EPDM ROOFING MEMBRANE FULLY ADHERED
 MIN. 150 (6") RIGID EXTRUDED POLYSTYRENE INSULATION MECHANICALLY FASTENED-TAPERED TO SUIT ROOF SLOPE
 0.15 (6 MIL) POLY VAPOUR BARRIER
 12.7 (½") EXTERIOR DRYWALL SHEATHING
 38x1.21 (1½"x0.048") VIC WEST RD 938 Z275- MIN. 2 SPANS OR APPROVED EQUAL STEEL DECK



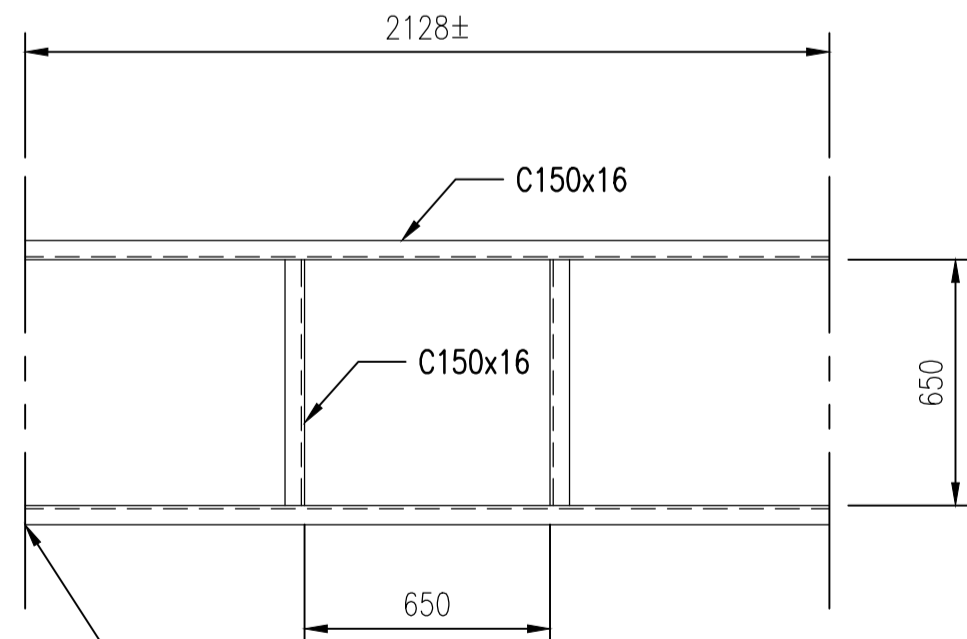
SECTION A
SCALE: 1 : 50

ROOF DESIGN LOADS:

1. IMPORTANCE FACTOR = 1.25
2. L.L. = 1.0 KPa
3. GROUND SNOW LOAD: SS = 1.9 KPa, SR = 0.2 KPa
(STEEL DECK SUPPLIER TO MODIFY FOR EXPOSURE AND DRIFT AS PER NBCC)
4. WIND LOAD: $Q(10) = 0.35$ KPa, $Q(150) = 0.45$ KPa
(STEEL DECK SUPPLIER TO ALLOW FOR 2.0 KPa UPLIFT)

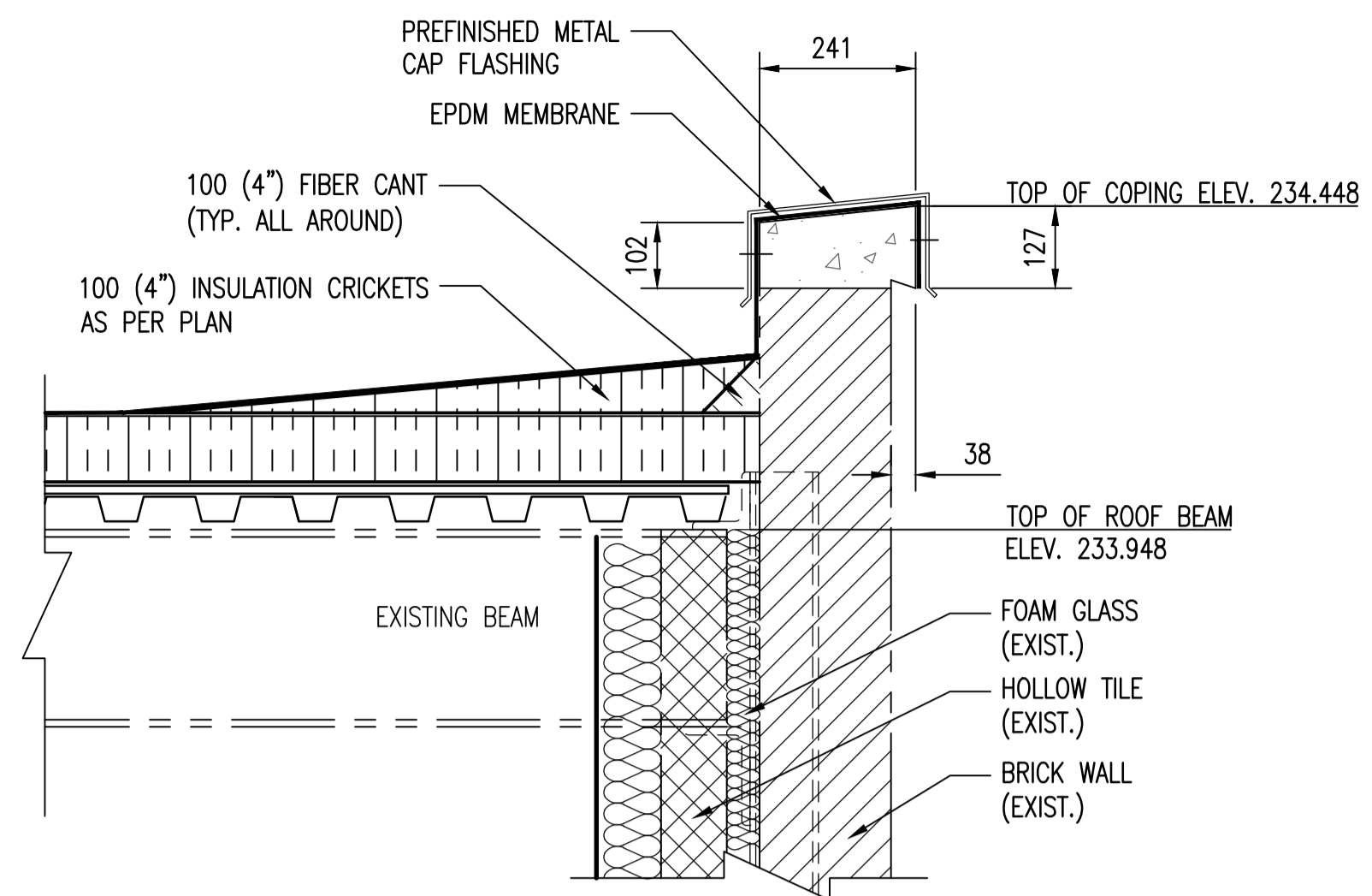


SECTION B
SCALE: 1 : 50

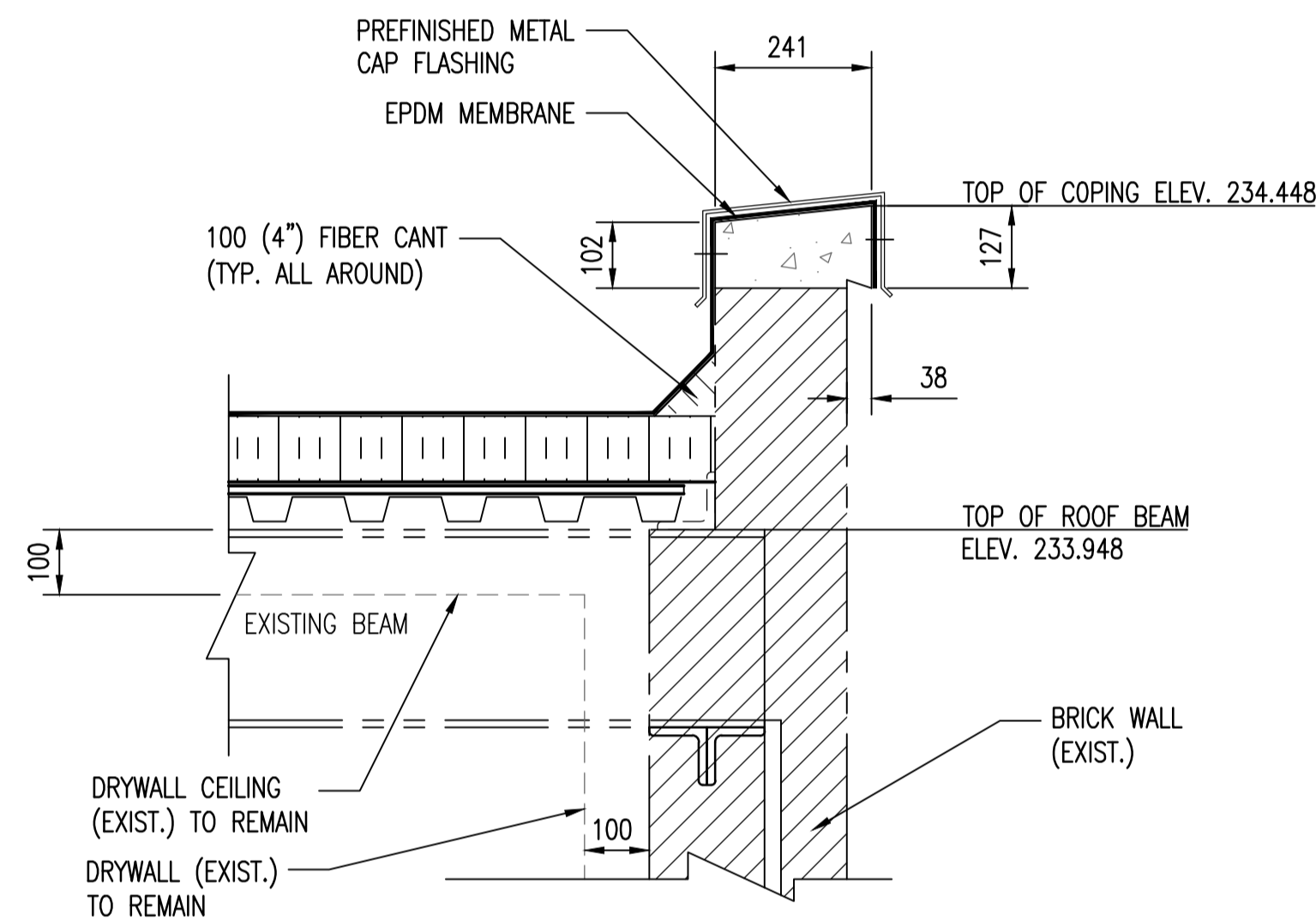


1. CHANNEL WELDED TO WEB OF EXISTING BEAM (TYP.)
2. COPE CHANNELS AT EACH END
3. TOP LEVELS OF ALL CHANNELS AT THE SAME LEVEL AS THE TOP LEVELS OF THE EXISTING BEAMS.

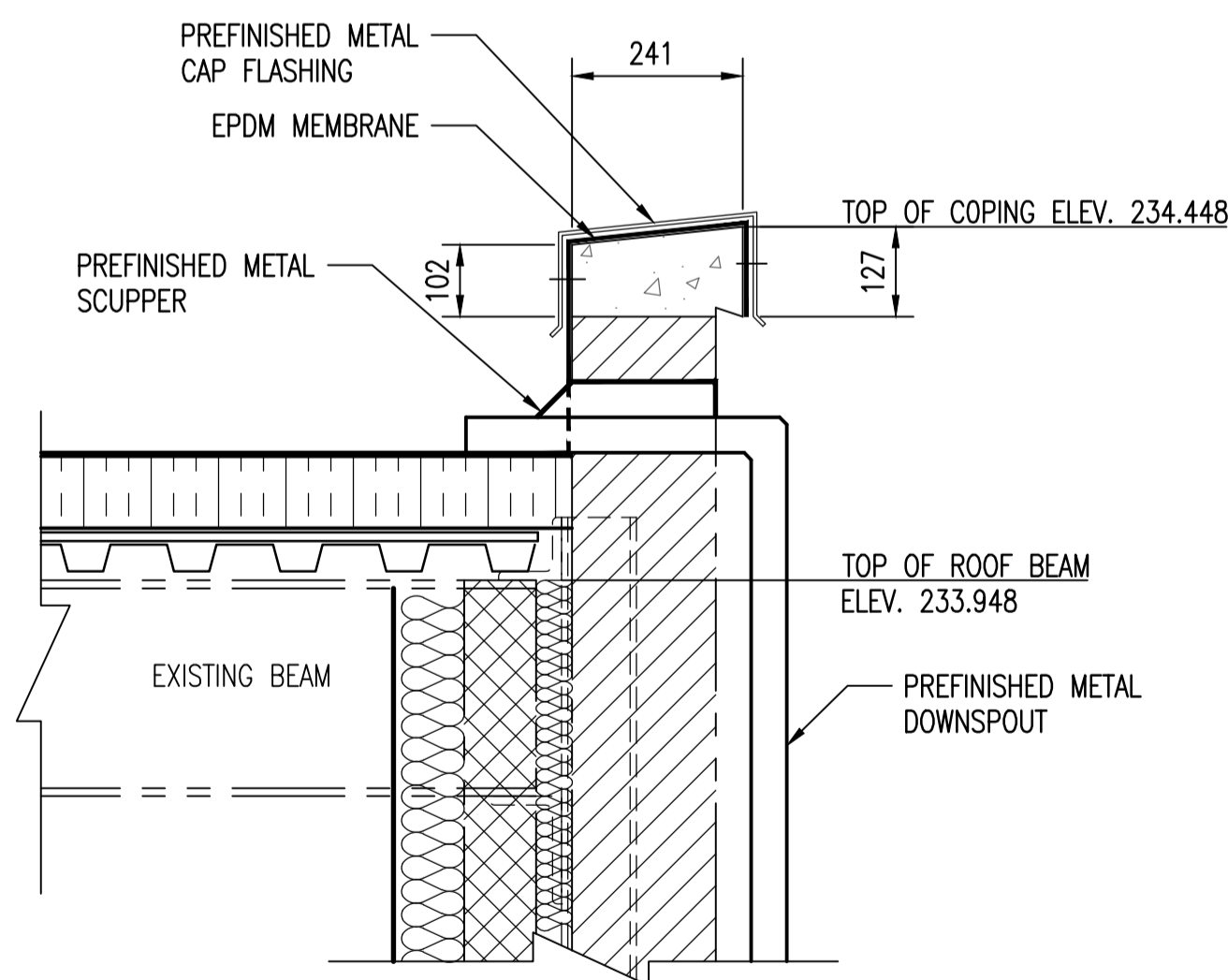
DETAIL 1 - WELDED GALVANIZED STEEL FRAME BELOW THE DECK
SCALE: 1 : 20



SECTION C
SCALE: 1 : 10



SECTION D
SCALE: 1 : 10



SECTION E
SCALE: 1 : 10

NOTES:

1. SEE DRAWING 1-0164L-S0001 FOR GENERAL NOTES.
2. SIZES AND LOCATIONS OF THE ROOF PENETRATIONS TO BE COORDINATED WITH MECHANICAL CONTRACTOR.

STEEL DECK:

1. STEEL DECK SHALL BE FABRICATED FROM ASTM A653M SS GRADE 230 WITH A ZINC COATING OF Z275 GALVANIZED AS DESIGNATED BY ASTM A653M. NOMINAL STEEL CORE THICKNESS SHALL BE 1.21mm MINIMUM.
2. STEEL DECK SHOP DRAWINGS SHALL BEAR THE SEAL OF AN ENGINEER REGISTERED IN THE PROVINCE OF MANITOBA WHO WILL BE RESPONSIBLE FOR THE DESIGN, FABRICATION AND INSTALLATION OF SAME.
3. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW BY THE ENGINEER PRIOR TO FABRICATION. SUBMIT SHOP DRAWINGS AS FOLLOWS:
1 SET OF DWGS IN DIGITAL FORMAT.
4. SHOP DRAWINGS SHOWING LAYOUT OF DECK UNITS, LOCATIONS AND DETAILS OF FASTENING AND OPENINGS TYPE AND GAUGES OF DECK MATERIALS SHALL BE SUBMITTED FOR REVIEW BEFORE FABRICATION COMMENCES.
5. THE STEEL ROOF DECK INSTALLER SHALL BE RESPONSIBLE FOR FRAMING ALL OPENINGS HAVING BOTH DIMENSIONS LESS THAN 450mm.
6. DECKING SHALL SPAN CONTINUOUSLY OVER THREE OR MORE SUPPORTS WHERE POSSIBLE.
7. END LAPS SHALL BE NOT LESS THAN 100mm AND FORMED OVER A SUPPORT.
8. SIDE LAPS SHALL BE SCREW FASTENED TO NO MORE THAN 400mm CENTRES.
9. WELDS, ABRASIONS AND FIELD CUT OPENINGS SHALL BE FIELD PAINTED WITH AN APPROVED PRIMER AND TOPCOAT.
10. FASTEN DECK UNITS TO SUPPORTING MEMBERS INCLUDING PERIMETER SUPPORT STEEL AND/OR BEARING WALLS BY EITHER PUDDLE WELDS OR MECHANICAL FASTENING, IMMEDIATELY AFTER ALIGNMENT. THE MAXIMUM SPACING OF FASTENERS ALONG BEARING SUPPORTS SHALL BE 300mm. WELD EDGE RIBS OF PANELS AT EACH SUPPORTING BEAM.
13. PROVIDE METAL DECK ACCESSORIES SUCH AS COVER PLATES, CHANNELS, DECK EXTENSIONS, UPSTANDS, SCREED FLASHINGS, FLUTE CLOSURES, CELL CLOSURES AND EDGE STRIPS AND AS REQUIRED

RIGID INSULATION:

1. MATERIAL: STYROFOAM DECKMATE OR APPROVED EQUIVALENT IN ACCORDANCE WITH B6.
2. MECHANICALLY FASTEN INSULATION AS PER MANUFACTURER'S INSTRUCTIONS
3. INSTALL INSULATION TO MAINTAIN CONTINUITY OF THERMAL BARRIER, FIT TIGHT TO PENETRATIONS. SEAL JOINTS AND JUNCTIONS.

263	SUPERSTRUCTURE DETAILS
264	CONCRETE AND STEEL DETAILS
DRAWING NUMBER	REFERENCE DRAWINGS

00	ISSUED FOR TENDER BID OPP. 907-2011	2012/02/24	DS	RB
NO.	REVISIONS	DATE	DESIGN	CHECK

 SNC-Lavalin Inc. 148 Nature Park Way Winnipeg, MB, Canada R3P 0X7 204-786-8080	
DESIGNED BY: D. SIDHU	CHECKED BY: R. C. BEAN
DRAWN BY: M. TUGADE	APPROVED BY: C. J. REIMER
SCALE: AS SHOWN	RELEASED FOR CONSTRUCTION BY: K.R. ZUREK
DATE: 2011/09/29	DATE: 2012/02/24
CONSULTANT NO.: 508042-0000-42DD-0014	

ENGINEER'S SEAL
 ORIGINAL DRAWING SEALED BY:
 D. S. SIDHU
 SNC-Lavalin
 MEMBER #24837
 2012/02/24
 REV. 00

 THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT			
MONTCALM WASTEWATER PUMPING STATION 2011 UPGRADES PLAN AND SECTIONS MAIN FLOOR ROOF REPLACEMENT			
CITY DRAWING NUMBER	SHEET	REV.	SIZE
1-0164L-S0014	001	00	A1