

D SIZE 22" x 34" (559mm x 864mm)

BILL OF MATERIALS

ITEM	SPAN 1	SPAN 2 & 3	SPAN 4	SPAN 5	TOTAL
BARRIER RAIL 11 793 mm	-	1	-	-	1
BARRIER RAIL 11 713 mm	-	-	1	-	1
BARRIER RAIL 11 712 mm	-	-	1	-	1
BARRIER RAIL 11 550 mm	2	-	-	-	2
BARRIER RAIL 11 540 mm	2	-	-	-	2
BARRIER RAIL 11 513 mm	-	-	1	-	1
BARRIER RAIL 11 289 mm	-	-	1	-	1
BARRIER RAIL 11 250 mm	2	-	-	-	2
BARRIER RAIL 11 130 mm	-	-	-	1	1
BARRIER RAIL 11 044 mm	-	-	-	1	1
BARRIER RAIL 11 000 mm	2	-	-	2	4
BARRIER RAIL 10 820 mm	2	-	-	2	4
BARRIER RAIL 10 690 mm	-	2	-	-	2
BARRIER RAIL 10 646 mm	1	-	-	-	1
BARRIER RAIL 10 617 mm	-	-	-	1	1
BARRIER RAIL 10 610 mm	-	4	-	-	4
BARRIER RAIL 10 609 mm	-	2	-	-	2
BARRIER RAIL 10 556 mm	2	-	-	1	3
BARRIER RAIL 10 501 mm	-	-	-	1	1
BARRIER RAIL 10 393 mm	-	1	-	-	1
BARRIER RAIL 10 364 mm	-	1	-	-	1
BARRIER RAIL 10 325 mm	-	4	-	-	4
BARRIER RAIL 10 289 mm	-	2	-	-	2
BARRIER RAIL 10 260 mm	-	2	-	-	2
BARRIER RAIL 10 248 mm	-	2	-	-	2
BARRIER RAIL 10 147 mm	2	-	-	2	4
BARRIER RAIL 10 120 mm	-	1	-	-	1
BARRIER RAIL 10 117 mm	-	2	-	-	2
BARRIER RAIL 10 091 mm	-	2	-	-	2
BARRIER RAIL 10 078 mm	-	2	-	-	2
BARRIER RAIL 9987 mm	2	-	-	1	3
BARRIER RAIL 9947 mm	2	-	-	2	4
BARRIER RAIL 9830 mm	-	2	-	-	2
BARRIER RAIL 9816 mm	-	2	-	-	2
BARRIER RAIL 9814 mm	-	2	-	-	2
BARRIER RAIL 9812 mm	-	2	-	-	2
BARRIER RAIL 9808 mm	-	2	-	-	2
BARRIER RAIL 9792 mm	-	-	4	-	4
BARRIER RAIL 9727 mm	-	-	1	-	1
BARRIER RAIL 9606 mm	-	-	-	1	1
BARRIER RAIL 9533 mm	-	-	1	-	1
BARRIER RAIL 9476 mm	-	-	2	-	2
BARRIER RAIL 9450 mm	-	-	-	2	2
BARRIER RAIL 9425 mm	-	-	1	-	1
BARRIER RAIL 9380 mm	-	2	-	-	2
BARRIER RAIL 9226 mm	-	-	1	-	1
BARRIER RAIL 9170 mm	-	-	-	1	1
BARRIER RAIL 9150 mm	-	-	-	2	2
BARRIER RAIL 8900 mm	-	-	-	1	1
BARRIER RAIL 8618 mm	-	-	-	1	1
BARRIER RAIL 8479 mm	-	-	-	1	1
BARRIER RAIL 8456 mm	-	1	-	-	1
BARRIER RAIL 8411 mm	1	-	-	-	1
BARRIER RAIL 8326 mm	1	-	-	1	2
BARRIER RAIL 8302 mm	-	1	-	-	1
BARRIER RAIL 8296 mm	-	1	-	-	1
BARRIER RAIL 8215 mm	1	-	-	-	1
BARRIER RAIL 8090 mm	-	1	-	-	1
BARRIER RAIL 7706 mm	1	-	-	1	2
BARRIER RAIL 7650 mm	-	-	1	-	1
BARRIER RAIL 7553 mm	-	-	1	-	1
BARRIER RAIL 7529 mm	-	-	1	-	1
BARRIER RAIL 7452 mm	-	-	1	-	1
BARRIER RAIL 6432 mm	-	1	-	-	1
BARRIER RAIL 6426 mm	1	-	-	1	2
BARRIER RAIL 6397 mm	1	-	-	-	1
BARRIER RAIL 6256 mm	-	-	-	1	1
BARRIER RAIL 6227 mm	-	1	-	-	1
BARRIER RAIL 6220 mm	-	1	-	-	1
BARRIER RAIL 6191 mm	-	-	-	1	1
BARRIER RAIL 6177 mm	1	-	-	-	1
BARRIER RAIL 5806 mm	1	-	-	1	2
BARRIER RAIL 4777 mm	1	-	-	-	1
BARRIER RAIL 4773 mm	-	1	-	-	1
BARRIER RAIL 4286 mm	1	-	-	1	2
BARRIER RAIL 3666 mm	1	-	-	-	1

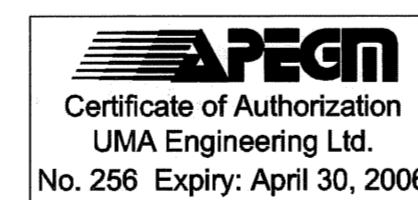
BILL OF MATERIALS

ITEM	SPAN 1	SPAN 2 & 3	SPAN 4	SPAN 5	TOTAL
BARRIER POST P1' 700 mm	42	76	30	42	190
BASE PLATE	42	76	30	42	190
STANDARD SPLICE BAR	24	42	12	24	102
EXPANSION SPLICE BAR	-	6	6	6	18
RAIL CLAMP BAR	252	456	180	252	1140
13-13X25 STAINLESS STEEL HEX. HEAD CAP SCREW	552	1002	390	558	2502
13-13X50 STAINLESS STEEL HEX. HEAD CAP SCREW	24	24	24	24	96
27 O.D. x 14 I.D. x 2 THICK STAINLESS STEEL WASHER	576	1050	438	582	2646
RAIL CONNECTION PLATE	6	6	6	6	24
13x50mm STAINLESS STEEL BOLT	12	12	12	12	48
STAINLESS STEEL NUT	12	12	12	12	48
ONE STAINLESS STEEL LOCK WASHER	12	12	12	12	48
TWO STAINLESS STEEL PLATE WASHERS	24	24	24	24	96
RAIL END CAP	3	-	-	3	6
ALUMINUM SHIMS	AS REQUIRED	AS REQUIRED	AS REQUIRED	AS REQUIRED	

GENERAL NOTES

- EXTRUDED ALUMINUM SHAPES AND PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM B221, ALLOY 6061-T6 OR ALLOY 6351-T6.
- WELDING SHALL CONFORM TO THE REQUIREMENTS OF CSA STANDARDS W59.2-1991 WELDED ALUMINUM AND W47.2-1987, CERTIFICATION OF COMPANIES FOR FUSION WELDING OF ALUMINUM. ALUMINUM FILLER ALLOY SHALL BE ER5556.
- ANTI-SEIZE COATING TO BE APPLIED TO ALL THREADED COMPONENTS WHEN BEING ASSEMBLED.
- A COMBINATION OF 1.5, 3.0 AND/OR 6.0mm THICK ALUMINUM RAIL POST OR PLATE SHIMS ARE TO BE USED AS REQUIRED TO SET THE BARRIER RAIL TO THE SPECIFIED HEIGHT. (MINIMUM 3.0mm SHIM REQUIRED AT EACH POST OR PLATE)
- REMOVE ALL BURRS AND SHARP EDGES IN THE SHOP. AFTER INSTALLATION OF THE BARRIER HAS BEEN COMPLETED, THE TOP EDGES AND CORNERS OF THE BARRIER RAIL POST SHALL BE ROUNDED SMOOTH TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR.
- BOTTOM SURFACE OF SHIM (SURFACE IN CONTACT WITH CONCRETE) IS TO BE PAINTED WITH TWO COATS OF ALKALI RESISTANT BITUMINOUS PAINT, EACH COAT BEING 1mm IN THICKNESS.
- THE STAINLESS STEEL HEX HEAD AND THE SOCKET HEAD CAP SCREWS SHALL MEET THE REQUIREMENTS OF ASTM A276, TYPE 316 AND THE DIMENSIONAL REQUIREMENTS OF ANSI B18.3
- SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW AT LEAST FOURTEEN (14) WORKING DAYS PRIOR TO FABRICATION.

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 WHOLE NUMBERS INDICATE MILLIMETRES
 DECIMALIZED NUMBERS INDICATE METRES

Bid Opportunity No. 257-2005

0 ISSUED FOR CONSTRUCTION 05/07/05 MP NO. REVISIONS YYMMDD BY			
	DESIGNED BY: BLL DRAWN BY: CGC HOR. SCALE: AS SHOWN VERT. SCALE: AS SHOWN	CHECKED BY: SBB APPROVED BY: <i>B.B.</i> ACCEPTED BY: <i>meil</i> DATE: 23/05/07	CONSULTANT DRAWING NO. 53 0265-376-00
			CITY DRAWING NUMBER B113-05-53 SHEET 53 OF 74 REV 53 0