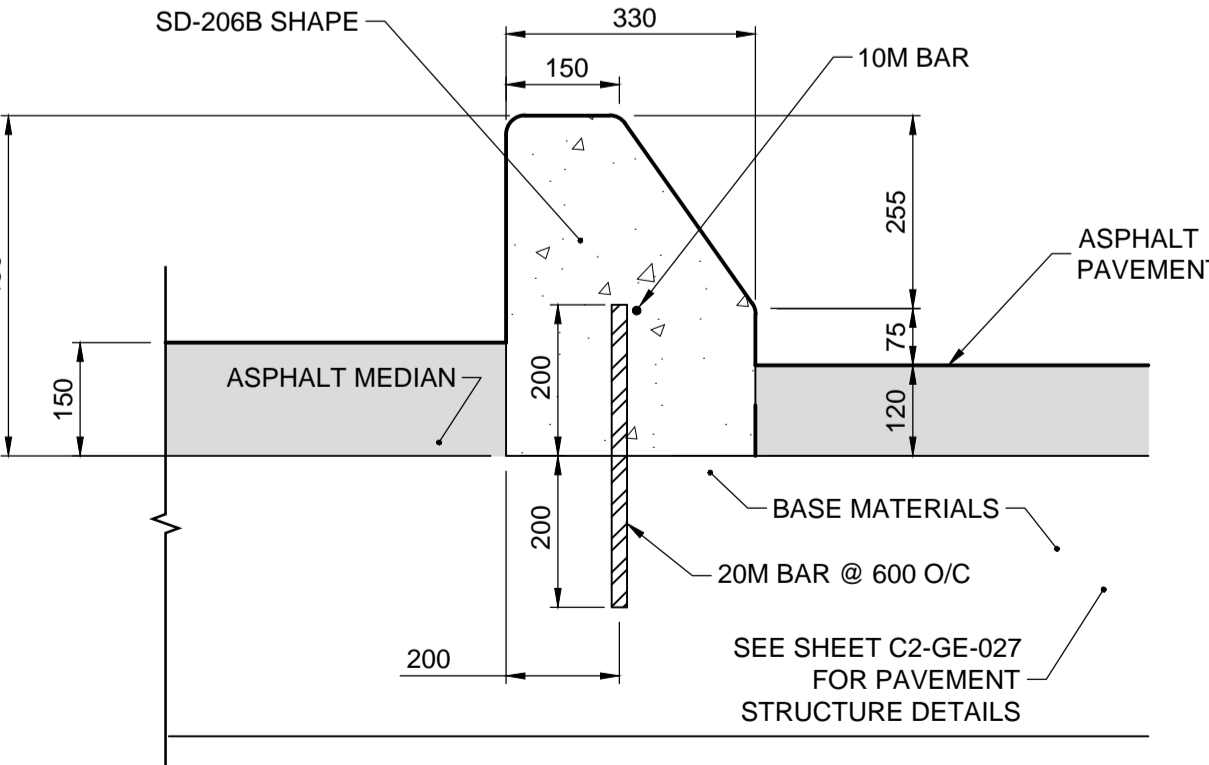


1 TEMPORARY ASPHALT CURB  
SCALE: 1:10

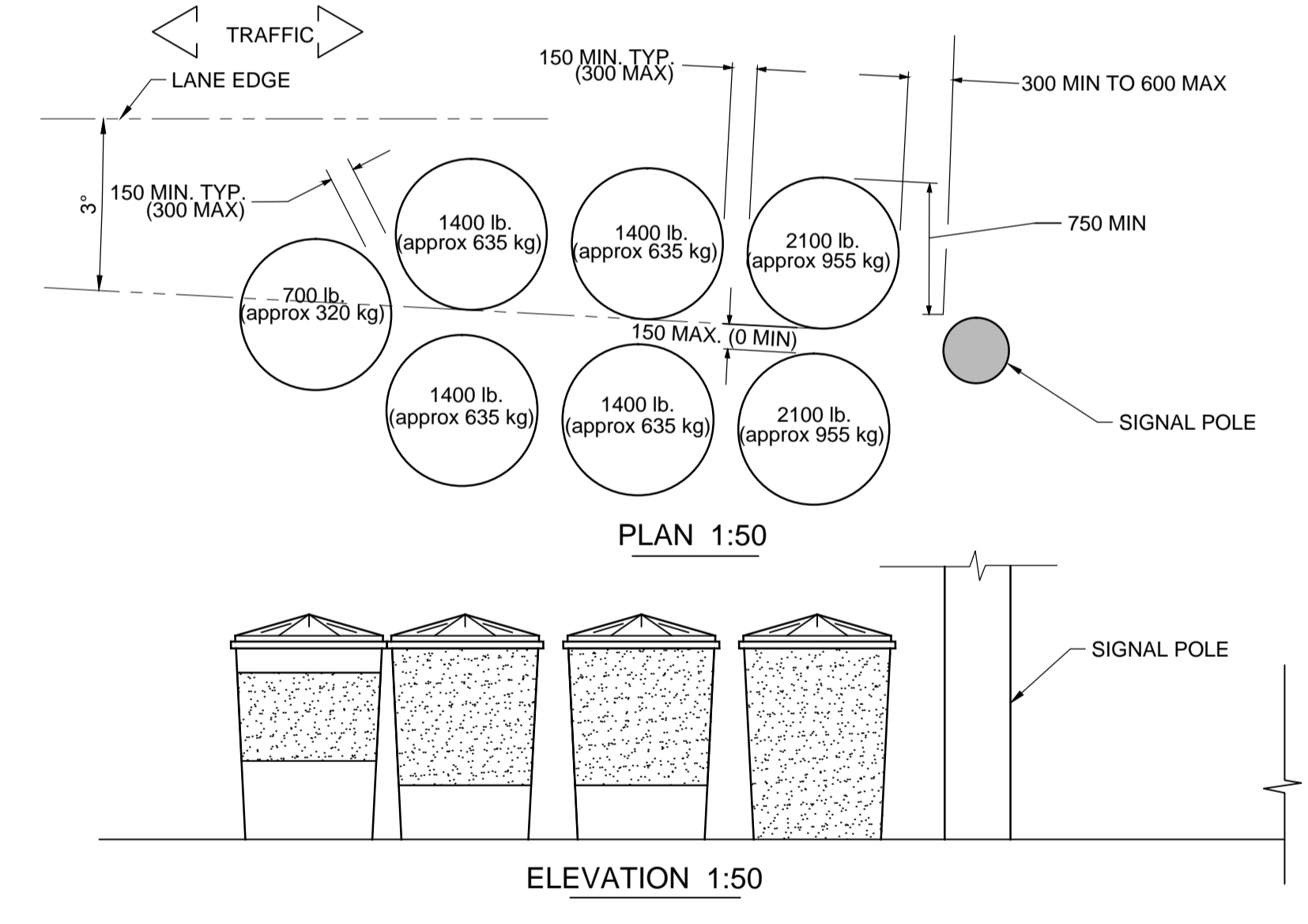


B SAFETY CURB-SECTION  
SCALE: 1:10

DESIGN CALCULATIONS FOR A POSTED VELOCITY OF 50 km/h (SEE NOTE 1)

| ROW | 816.5 kg CAR |                 |                 | 2041.2 kg TRUCK |                 |  |
|-----|--------------|-----------------|-----------------|-----------------|-----------------|--|
|     | SAND WT (lb) | EXIT VEL (km/h) | AVG g's FOR ROW | EXIT VEL (km/h) | AVG g's FOR ROW |  |
| 0   | 50.00        | 50.00           | 50.00           | 50.00           | 50.00           |  |
| 1   | 700          | 35.98           | 5.18            | 43.26           | 2.70            |  |
| 2   | 2800         | 14.06           | 4.72            | 26.64           | 4.99            |  |
| 3   | 2800         | 5.50            | 0.72            | 16.41           | 1.89            |  |
| 4   | 4200         | 1.65            | 0.12            | 8.48            | 0.85            |  |

NOTE:  
1. THE DESIGN CALCULATIONS APPLY ONLY FOR A FRONTAL IMPACT IN EITHER A UNIDIRECTIONAL OR BIDIRECTIONAL LAYOUT.



3 SAND FILLED BARRELS  
SCALE: NTS

**LEGEND**

- RAILWAY SIGNAL
- SAND FILLED BARRELS AND SIGNALS FOR PHASE II CONSTRUCTION SHOWN THUS
- SAND FILLED BARRELS AND SIGNALS FOR PHASE III CONSTRUCTION SHOWN THUS

**APEGM**  
Certificate of Authorization  
Dillon Consulting Limited (MB)  
No. 1789 Date: 17/01/09

|   |             |   |          |                 |                                 |  |  |   |
|---|-------------|---|----------|-----------------|---------------------------------|--|--|---|
| <b>UNDERGROUND STRUCTURES</b><br>SUPPLY U/G STRUCTURES DATE   | B.M. ELEV.  | SEE SHEET C2-CT-007 FOR CONTROL POINT INFORMATION |          | ENGINEER'S SEAL |                                 | <b>THE CITY OF WINNIPEG</b><br>PUBLIC WORKS DEPARTMENT<br>WINNIPEG | WAYERLEY STREET UNDERPASS AT CN MILE 3.89 RIVERS SUB<br>CONTRACT 2: UNDERPASS STRUCTURES, RAILWORKS, ROADWORKS, LAND DRAINAGE SEWER, PUMPING STATION AND LANDSCAPING WORKS | CITY DRAWING NUMBER<br>U-239-2016-C2-CT-006<br>SHEET 006 OF 081 |
|   | DESIGNED BY | RTP   |          | CHECKED BY      |                                 |  |  |   |
| LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION. | 2           | ADDENDUM #3                                       | 17/02/15 | DBW             | HON. SCALE<br>1:150<br>VERTICAL | RELEASED FOR CONSTRUCTION<br>DATE                                  | CONSULTANT DRAWING NUMBER<br>C2-CT-006   |   |
|   | 1           | ADDENDUM #1                                       | 17/01/25 | DBW             |                                 |  |  |   |
|   | 0           | ISSUED FOR TENDER                                 | 17/01/09 | DBW             |                                 |  |  |   |
|   | NO.         | REVISIONS   | DATE     | BY              | DATE                            |  |  |   |

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