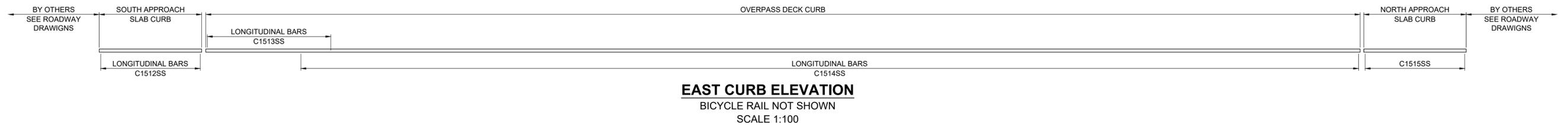
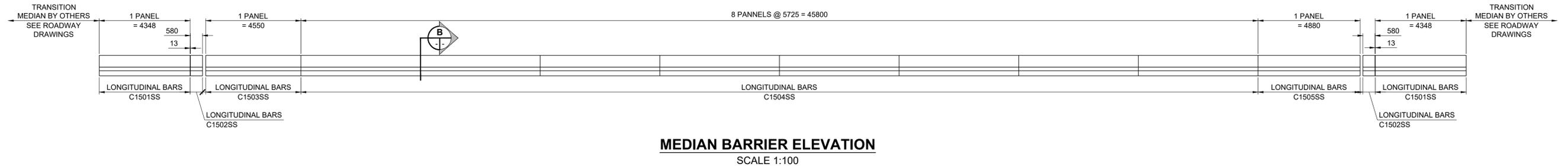
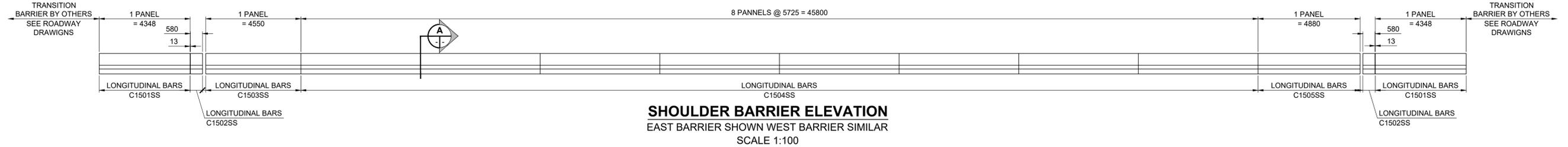
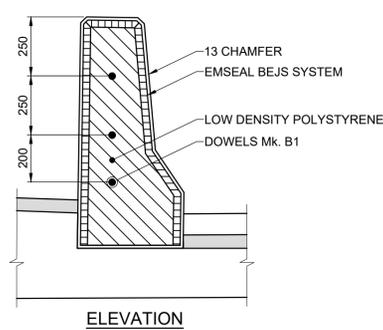
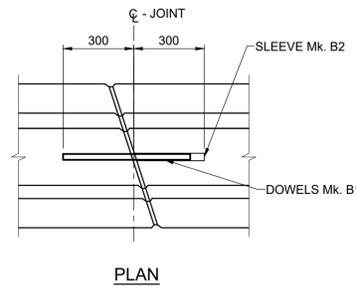
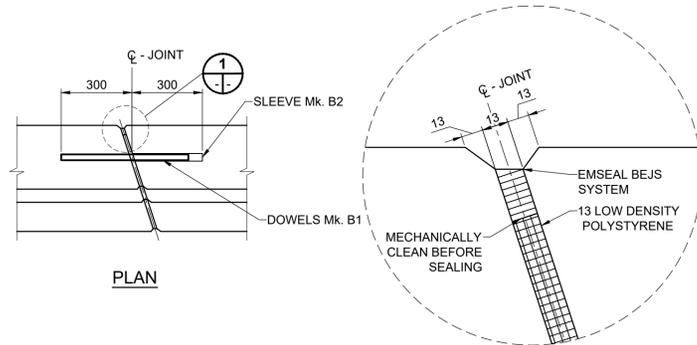


ISO A1 - 594mm x 841mm

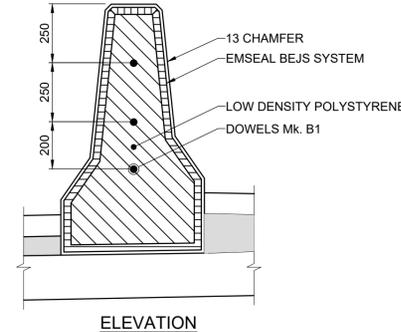
C:\Winipeg\Proj\W160034\Design\Drawings\06 Sheets\Detailed Design\Structural\W160034-DD-SS.dwg - Last Saved: 10/15/2018 3:59 PM by: A.Heggen - Plotted: 10/15/2018 3:59 PM by: Alex Heggen



| BILL OF MISCELLANEOUS METAL | | | | | | |
|-----------------------------|-----|------------------------------------|--------------|---------------------|--------------------|-----------------|
| MARK | NO. | DESCRIPTION | SIZE | COMPONENT MASS (kg) | MASS PER UNIT (kg) | TOTAL MASS (kg) |
| B1 | 173 | 250 X 550 LONG SS BAR | AS DESCRIBED | 2.19 | 2.19 | 378.87 |
| B2 | 173 | 320 X 300 LONG SS EXPANSION SLEEVE | AS DESCRIBED | 0.09 | 0.09 | 15.57 |



JOINT DETAIL (TYP)
SCALE: 1:2



SECTION - TYPICAL BARRIER JOINT
SCALE: 1:15

SECTION - TYPICAL MEDIAN JOINT
SCALE: 1:15



METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMAL NUMBERS INDICATE METRES

LOCATION APPROVED
UNDERGROUND STRUCTURES

DATE: _____

NOTE:
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.

| NO. | REVISIONS | DATE | BY |
|-----|------------------------------|----------|-----|
| D | ISSUED FOR ADDENDUM 2 | 18/10/16 | BAP |
| C | ISSUED FOR ADDENDUM 1 | 18/10/05 | BAP |
| B | ISSUED FOR TENDER | 18/09/04 | BAP |
| A | ISSUED FOR 95% DESIGN REVIEW | 18/08/07 | BAP |

| | |
|----------------------------|----------------------|
| MORRISON HERSHFIELD | |
| DESIGNED BY: AF | CHECKED BY: YM |
| DRAWN BY: ALP | APPROVED BY: BE |
| HOR SCALE: AS SHOWN | VERT SCALE: AS SHOWN |
| DATE: _____ | DATE: _____ |

PROFESSIONAL'S SEAL
PROVINCE OF MANITOBA
A. FATHI
Member
41159
REGISTERED PROFESSIONAL ENGINEER

CONSULTANT FILE NAME
W160034 - DD SS.DWG

THE CITY OF WINNIPEG
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

EMPRESS STREET PROJECT
OVERPASS REHABILITATION WORKS
SUPERSTRUCTURE
BARRIER ELEVATION AND JOINT DETAILS

CITY DRAWING NUMBER: P-3494-108
SHEET 108 OF 169
DRAWING No. REV 108 D

BID OPPORTUNITY No. 602-2018