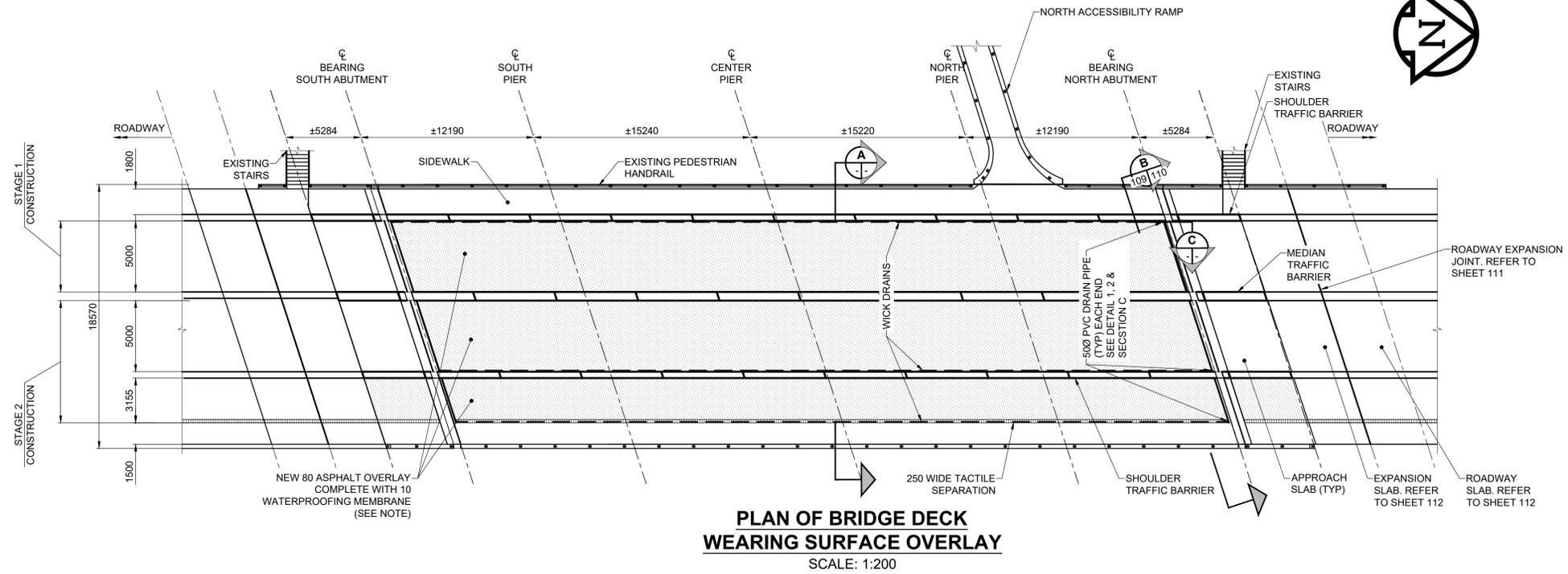


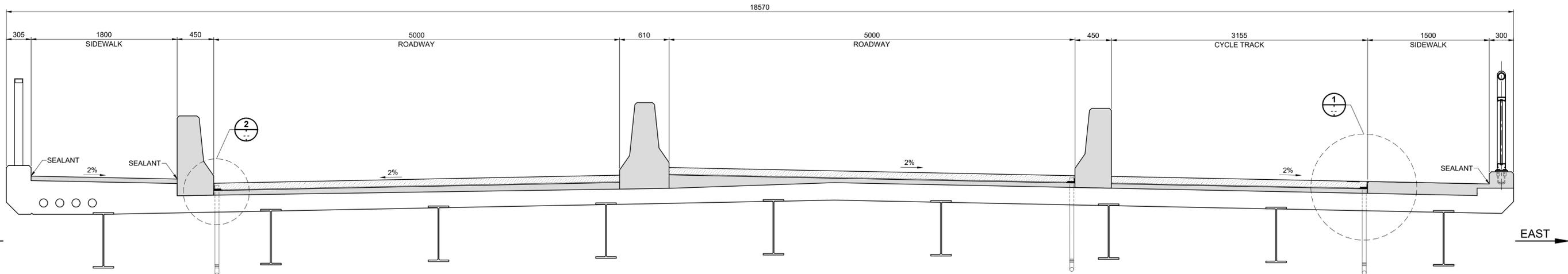
ISO A1 - 594mm x 841mm

O:\Winnipeg\Proj\W160034\Drawings\06 Sheets\Detailed Design\Structural\W160034-DD-SS-DWG.Last Saved: 9/7/2018 9:54 AM by: A.Heggen. Plotted: 9/7/2018 9:58 AM by: Alex Heggen

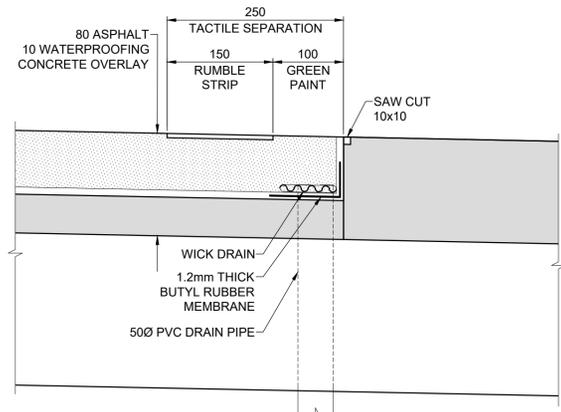
- GENERAL NOTES:**
- SUBSTRUCTURE NOT SHOWN FOR CLARITY.
  - APPLY WATERPROOFING MEMBRANE TO THE BRIDGE DECK ONLY.
  - WICK DRAINS TO EXTEND FULL LENGTH OF ASPHALT OVERLAY. SEE DETAILS 1, 2 & 3 FOR DRAIN PIPE DETAILS.



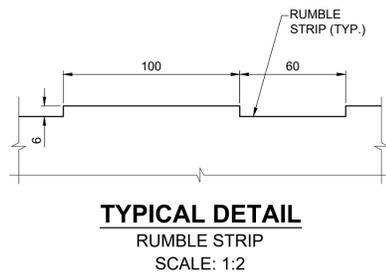
**PLAN OF BRIDGE DECK WEARING SURFACE OVERLAY**  
SCALE: 1:200



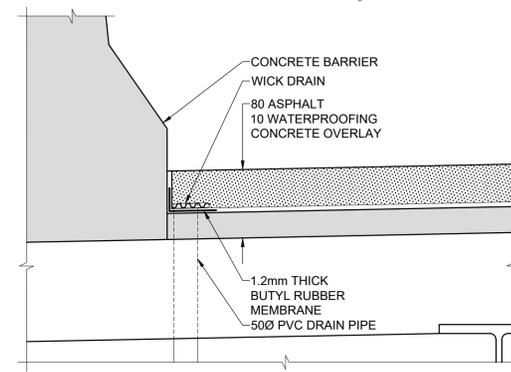
**SECTION A-A ASPHALT OVERLAY**  
SCALE: 1:25



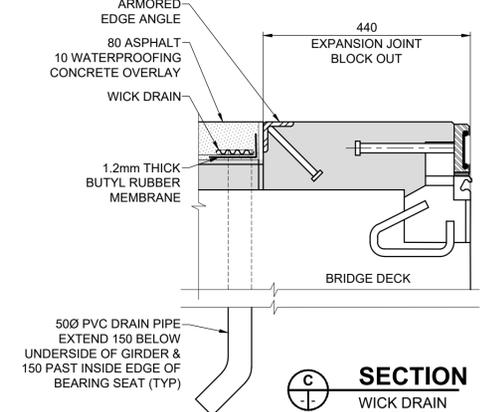
**DETAIL 1 TACTILE SEPARATION & WICK DRAIN**  
SCALE: 1:5



**TYPICAL DETAIL RUMBLE STRIP**  
SCALE: 1:2



**DETAIL 2 WICK DRAIN**  
SCALE: 1:7.5



**SECTION C-C WICK DRAIN**  
SCALE: 1:7.5

- LEGEND:**
- CONCRETE OVERLAY/NEW CONCRETE
  - ASPHALT OVERLAY

**ENGINEERS GEOSCIENTISTS**  
Certificate of Authorization  
**MORRISON HERSHFIELD**  
No. 1736  
**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	YYMMDD	BY	DATE

BM	ELEV

**MORRISON HERSHFIELD**

DESIGNED BY	AF	CHECKED BY	YM
DRAWN BY	ALP	APPROVED BY	BE
HOR SCALE	AS SHOWN	RELEASED FOR CONSTRUCTION	N/A
VERT SCALE	AS SHOWN	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 ASPHALT OVERLAY**

CITY DRAWING NUMBER	P-3494-109
SHEET	109 OF 168
DRAWING No.	109
REV	D

BID OPPORTUNITY No. 602-2018