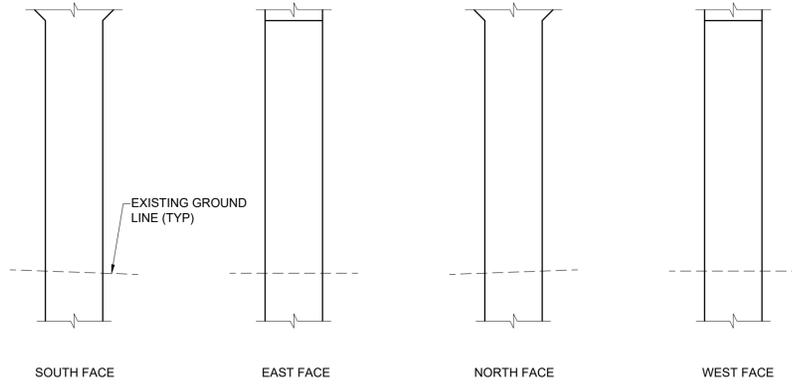
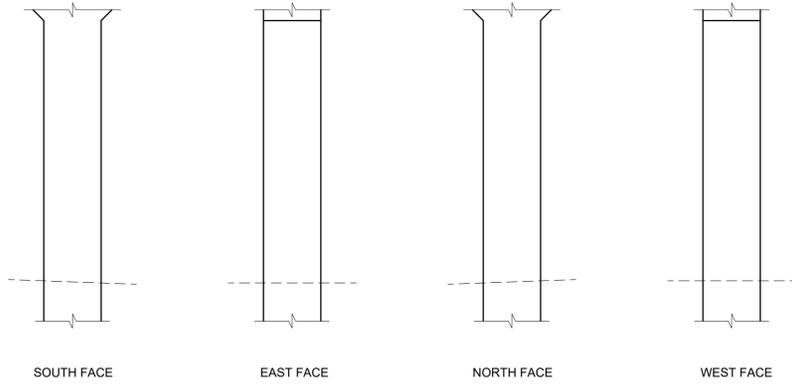


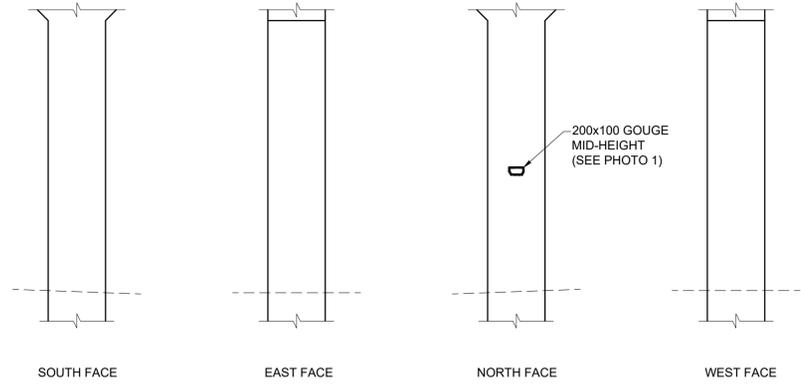
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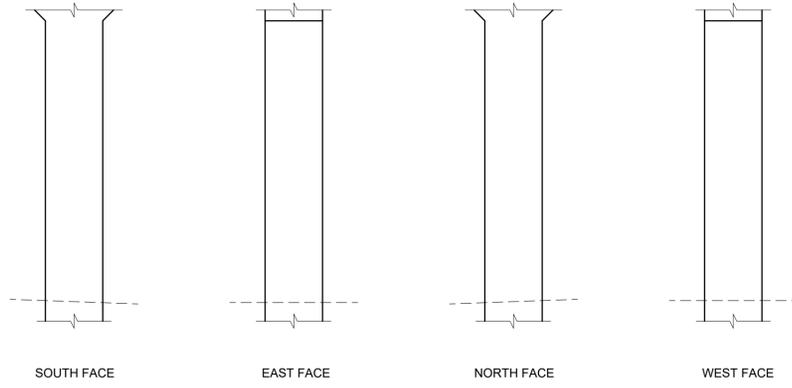
**COLUMN 1**  
SCALE: 1:50



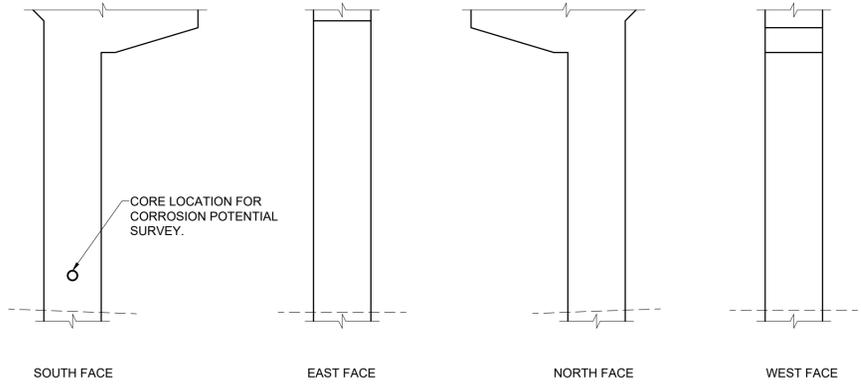
**COLUMN 2**  
SCALE: 1:50



**COLUMN 3**  
SCALE: 1:50



**COLUMN 4**  
SCALE: 1:50



**COLUMN 5**  
SCALE: 1:50



1. NORTH FACE COLUMN 3  
200x100 GOUGE

**LEGEND:**

- LOSS OF MORTAR SURFACE REPAIR
- DELAMINATION
- SPALL
- CRACK

**GENERAL NOTES:**

1. DEFECTS MAPPED OCTOBER 5, 2017.
2. CONTRACTOR TO UNDERTAKE DELAMINATION SURVEY WITH RESIDENT ENGINEER TO CONFIRM EXTENTS OF DEFECTS.
3. REPAIRS TO BE COMPLETED TO DELAMINATED, SPALLED, AND CRACKED CONCRETE PRIOR TO INSTALLING AND APPLYING ECE TREATMENT. REFER TO SHEET 99 FOR REPAIR DETAILS.



**METRIC**  
WHOLE NUMBERS INDICATE MILLIMETRES  
DECIMALIZED NUMBERS INDICATE METRES

LOCATION APPROVED UNDERGROUND STRUCTURES			
NO.	REVISIONS	DATE	BY

NO.	REVISIONS	DATE	BY
D	ISSUED FOR TENDER	18/09/04	BAP
C	ISSUED FOR 95% DESIGN REVIEW	18/08/07	BAP
B	ISSUED FOR 50% DESIGN REVIEW REV 1	18/06/28	AG
A	ISSUED FOR 50% DESIGN REVIEW	18/04/03	AG

<b>MORRISON HERSHFIELD</b>	
DESIGNED BY: AG	CHECKED BY: BAP
DRAWN BY: AH	APPROVED BY: BE
HOR SCALE: AS SHOWN	VERT SCALE: AS SHOWN
RELEASED FOR CONSTRUCTION	
DATE: _____	

PROFESSIONAL'S SEAL  
  
 CONSULTANT FILE NAME  
 W160034 - DD SU.DWG

**THE CITY OF WINNIPEG**  
 PUBLIC WORKS DEPARTMENT  
 ENGINEERING DIVISION

**EMPRESS STREET PROJECT  
 OVERPASS REHABILITATION WORKS  
 SUBSTRUCTURE  
 SOUTH PIER COLUMNS DEFECT MAP  
 AND SURFACE REPAIRS**

CITY DRAWING NUMBER	P-3494-89
SHEET	89 OF 168
DRAWING No.	89
REV	D

BID OPPORTUNITY No. 602-2018