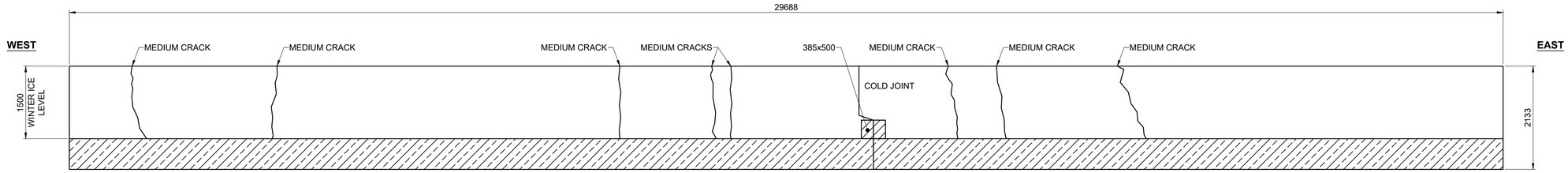
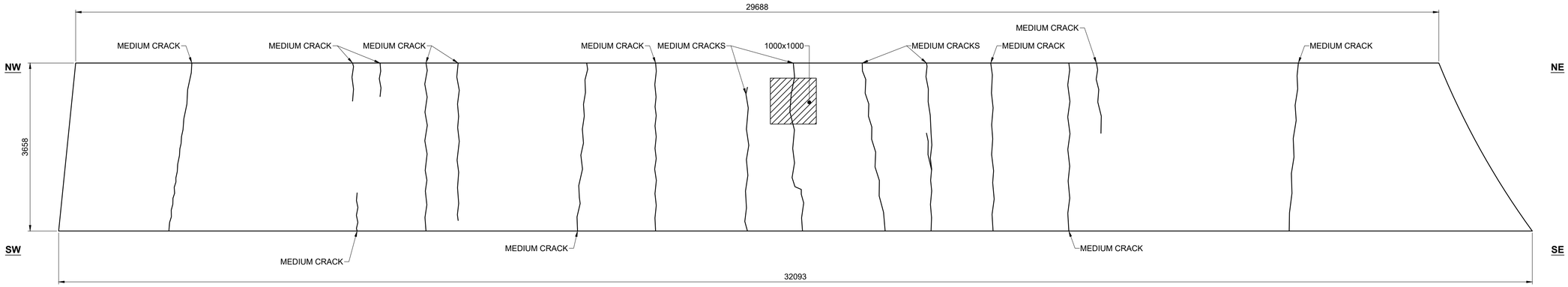
ISO A1 - 594mm x 841mm




## SOUTH BARREL NORTH WALL

**AS SEEN FROM INSIDE CULVERT LOOKING NORTH**

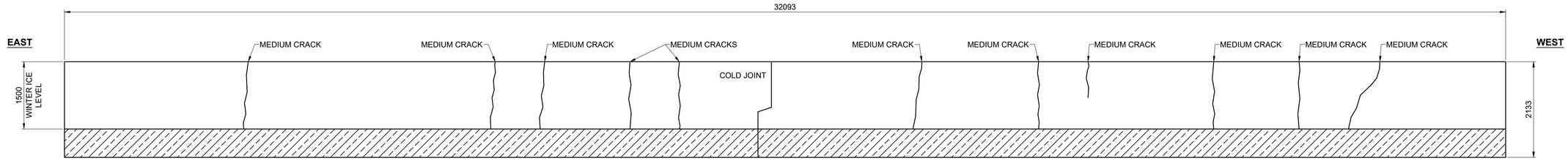
**SCALE: 1:50**




## SOUTH BARREL ROOF SLAB

**AS SEEN FROM ABOVE**

**SCALE: 1:50**




## SOUTH BARREL SOUTH WALL

**AS SEEN FROM INSIDE CULVERT LOOKING SOUTH**

**SCALE: 1:50**

LEGEND:

- DELAMINATION
- SPALL
- CRACK
- ICE / SNOW COVER

GENERAL NOTES:

1. DEFECTS MAPPED DECEMBER 2021.
2. CONTRACTOR TO UNDERTAKE DELAMINATION SURVEY WITH RESIDENT ENGINEER TO CONFIRM EXTENT OF DEFECTS.
3. REPAIRS TO BE COMPLETED TO DELAMINATED, SPALLED, AND CRACKED CONCRETE. REFER TO SHEET 13 FOR REPAIR DETAILS.
4. REFER TO SHEET 05 FOR COFFERDAM LOCATIONS PRIOR TO COMMENCING CULVERT REPAIRS.

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

LOCATION APPROVED
UNDERGROUND STRUCTURES

SUPR, U/G STRUCTURES COMMITTEE — 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.

BM 23-018 ELEV 235.300 m — S.E. Cor. Notre Dame Ave. & Sherwin Rd., Tblt. in W. Conc. foundation No. 2070 Notre Dame Ave., 0.8 m S. & 0.7 m below Conc. block of N.W. Cor. of bldg.

| No. | REVISIONS | YY/MM/DD | BY |
|---|---|---|---|
| C | ISSUED FOR TENDER | 22/05/10 | BE |
| B | ISSUED FOR 95% REVIEW | 22/04/06 | BE |
| A | ISSUED FOR 50% REVIEW | 22/03/14 | BE |

MORRISON HERSHFIELD

| | | | |
|---|---|---|---|
| DESIGNED BY | AGG | CHECKED BY | TH |
| DRAWN BY | ALP | APPROVED BY | BE |
| HOR SCALE / VERT SCALE | AS SHOWN | RELEASED FOR CONSTRUCTION BY: VAIBHAV BANTHIA, P.ENG. | |
| DATE | 22/03/14 | DATE | 22/05/10 |

PROFESSIONAL'S SEAL
PROVINCE OF MANITOBA — A.D.G. GILARSKI — Member 32144 — 2022-05-10 — REGISTERED PROFESSIONAL ENGINEER

CONSULTANT FILE NAME
220042500-Rte 90-Culvert02.dwg

ENGINEERS GEOSCIENTISTS MANITOBA
Certificate of Authorization
MORRISON HERSHFIELD
No. 1736

TENDER No. 233-2022

Winnipeg

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

**REHABILITATION OF ROUTE 90 CULVERT OVER OMAND'S CREEK**

**CULVERT REPAIRS 2 OF 3**

CITY DRAWING NUMBER: C315-21-21
SHEET 21 OF 27
DRAWING NUMBER: 21

x:\Proj\2022\220042500-cofw rte 90 culvert over omands cre\09. cad\07 sheets\220042500-Rte 90-Culvert02.dwg Last Saved: 5/2/2022 4:24 PM by ALazcanoPerez Plotted: 5/10/2022 7:32 AM by Alex Heppner