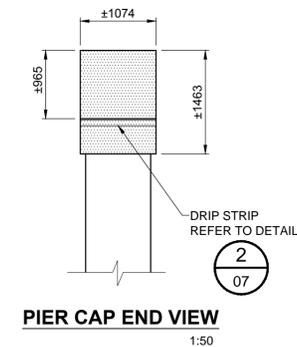
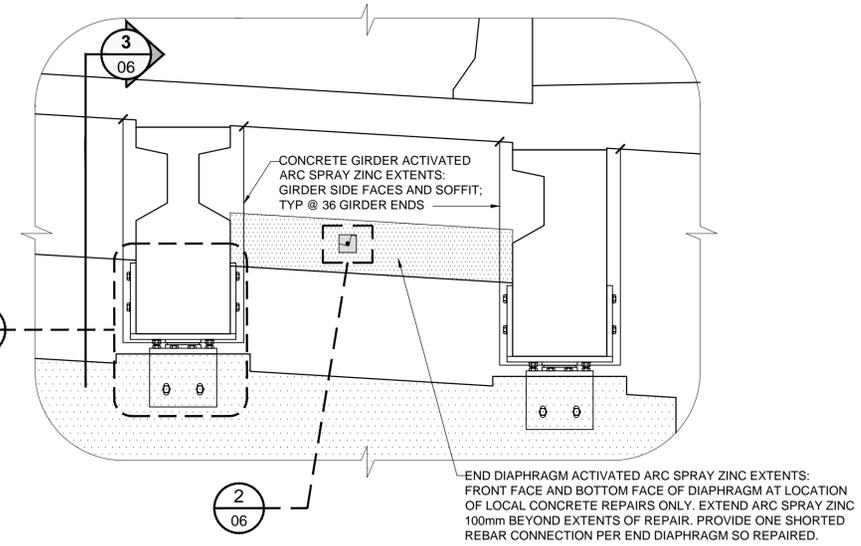


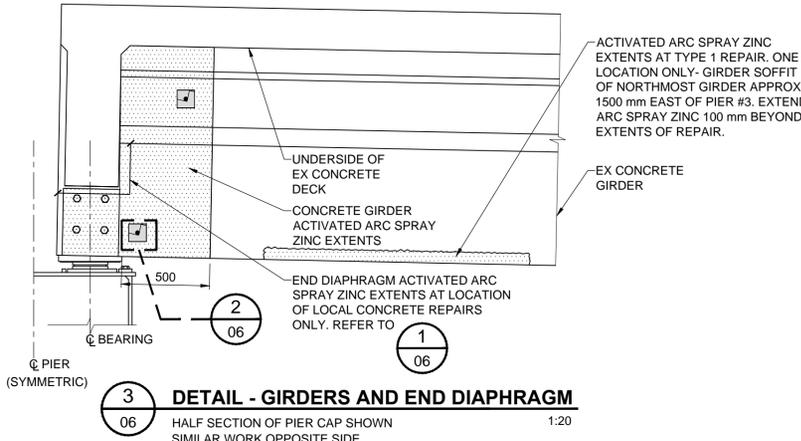
**PIER CAP ELEVATION**  
PIER #8 EAST FACE SHOWN 1:50  
PIER #3 EAST FACE SIMILAR



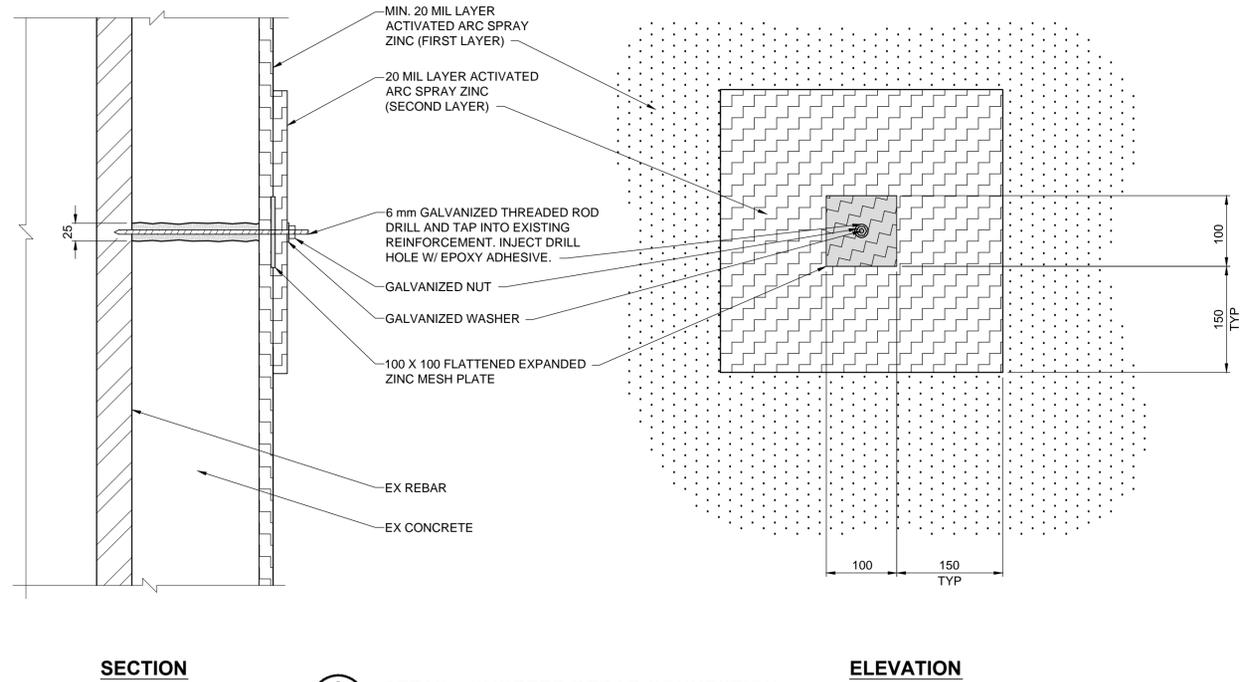
**PIER CAP END VIEW**  
1:50



**DETAIL - GIRDERS AND END DIAPHRAGM**  
1:20



**DETAIL - GIRDERS AND END DIAPHRAGM**  
HALF SECTION OF PIER CAP SHOWN  
SIMILAR WORK OPPOSITE SIDE 1:20



**DETAIL - SHORTED REBAR CONNECTION**  
DRILL AND TAP CONNECTION SHOWN  
FINAL CONNECTION DETAILS TO BE  
CONFIRMED BY SHOP DRAWINGS N.T.S.

**ACTIVATED ARC SPRAY ZINC METALLIZING NOTES:**

- CONTRACTOR TO SUBMIT ACTIVATED ARC SPRAY ZINC METALLIZING SHOP DRAWINGS FOR ALL CONNECTION DETAILS AND INSTALLATION PROCEDURE FOR CONTRACT ADMINISTRATOR'S REVIEW AND ACCEPTANCE PRIOR TO PROCEEDING WITH THE WORK.
- DESIGN LIFE: 15 CALENDAR YEARS BEFORE TOTAL CONSUMPTION OF ZINC.
- ACTIVATED ARC SPRAY ZINC METALLIZING PROCEDURE - BASIS OF DESIGN:
  - COMPLETE ALL REQUIRED CONCRETE REPAIRS.
  - ALLOW AT LEAST 28 DAYS TO ELAPSE FROM DATE OF CONCRETE POUR.
  - FORM ELECTRICAL CONNECTION TO EXISTING REINFORCING STEEL USING REVIEWED AND ACCEPTED CONNECTION DETAIL. TWO CONNECTIONS ARE REQUIRED PER VERTICAL FACE WITH THE EXCEPTION OF END DIAPHRAGM REPAIRS. WHERE ONE CONNECTION IS SUFFICIENT. CONNECTIONS SHALL BE ESTABLISHED WITH TWO DIFFERENT VERTICAL REINFORCING BARS. DO NOT FORM CONNECTIONS WITH PRESTRESSED STRAND.
  - CONTRACTOR TO ESTABLISH ELECTRICAL CONTINUITY BETWEEN ADJACENT CONNECTIONS TO BE METALLIZED.
  - PROTECT BEARING ELASTOMER AND SLIDING SURFACE.
  - SANDBLAST CONCRETE SURFACES TO BE METALLIZED TO SSPC-SP 13/ NACE NO.6 SURFACE PREPARATION OF CONCRETE. SANDBLAST EXPOSED STEEL SURFACES TO BE METALLIZED (IF ANY) TO SSPC-SP 10/ NACE NO.2, NEAR-WHITE BLAST CLEANING.
  - METALLIZE ALL SURFACES INDICATED.
  - PLACE 100 X 100 FLATTENED EXPANDED ZINC MESH PLATE, WASHER, AND NUT OVER THREADED ROD AND TIGHTEN NUT.
  - PROVIDE AN ADDITIONAL LAYER OF METALLIZING OVER THE ZINC MESH PLATE. THE ADDITIONAL LAYER SHALL EXTEND 150 mm BEYOND THE PLATE IN ALL DIRECTIONS.
  - APPLY ACCEPTED HUMECTANT TO ALL METALLIZED SURFACES.



**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.

No.	REVISIONS	DATE	BY
C	ISSUED FOR TENDER	15/03/31	DAN
B	ISSUED FOR 99% PROGRESS	15/03/13	DAN
A	ISSUED FOR 50% PROGRESS	15/02/27	DAN

**MORRISON HERSHFIELD**

DESIGNED BY	DAN	CHECKED BY	SAL
DRAWN BY	EDM	APPROVED BY	BE
HOR. SCALE	AS SHOWN	RELEASED FOR CONSTRUCTION	
VERT. SCALE	AS SHOWN		
DATE	15/02/27	DATE	

PROFESSIONAL'S SEAL

ORIGINAL DRAWING

SIGNED & SEALED BY:

D. A. NEILSON  
APEGM MEMBER  
37248  
MARCH 31, 2015

CONSULTANT DRAWING No.  
W140009-DET-03.dwg

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

**Winnipeg**

**NAIRN AVENUE OVERPASS**  
CONCRETE GIRDER AND PIER REPAIRS

PIER CAP, GIRDER & BEARING REPAIRS - SHEET 2

CITY DRAWING NUMBER B121-2015-06  
SHEET 6 OF 7  
DRAWING No. 06 REV C