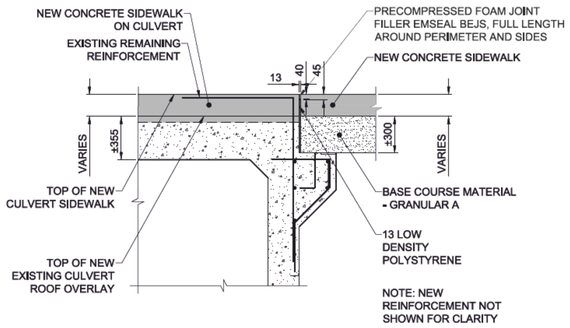
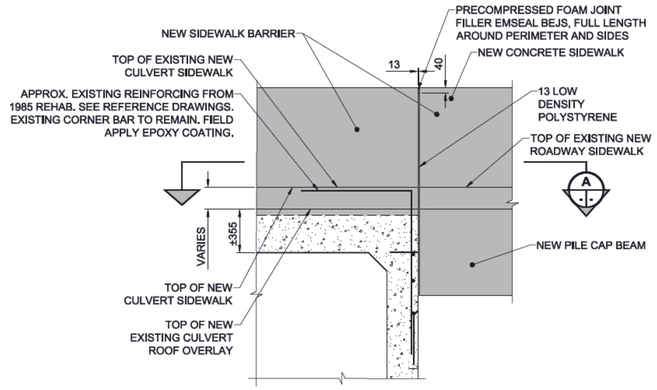


TYPICAL SECTION

H 10 13

NEW SIDEWALK AT CULVERT CORBEL

SCALE: 1:25

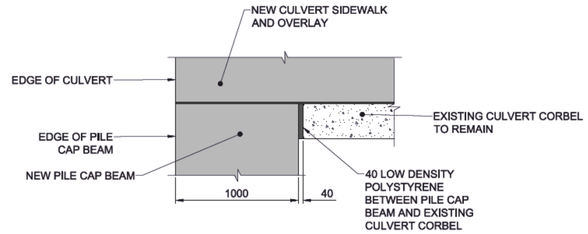


TYPICAL SECTION

J 10 13

NEW SIDEWALK AND BARRIER AT CULVERT CORBEL

SCALE: 1:25

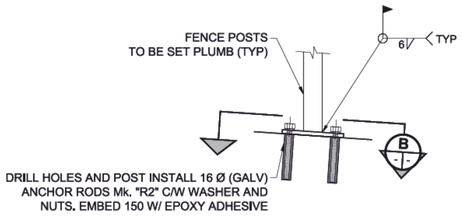


TYPICAL SECTION

A

NEW PILE CAP BEAM AT CULVERT CORBEL

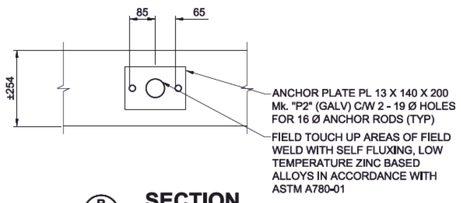
SCALE: 1:25



FENCE DETAIL

FENCE POST TO WINGWALL/WINGWALL CONNECTION

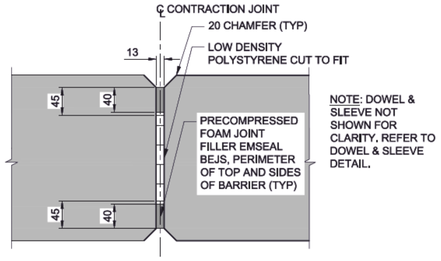
SCALE 1:10



SECTION

B

SCALE: 1:10



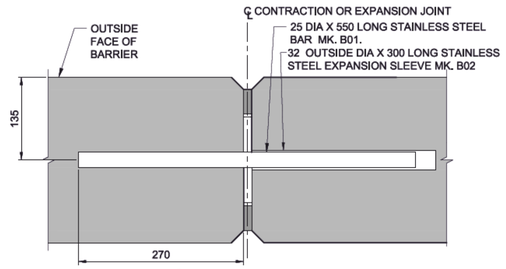
NOTE: DOWEL & SLEEVE NOT SHOWN FOR CLARITY. REFER TO DOWEL & SLEEVE DETAIL.

TYPICAL DETAIL

1

BARRIER EXPANSION JOINT

SCALE: 1:5

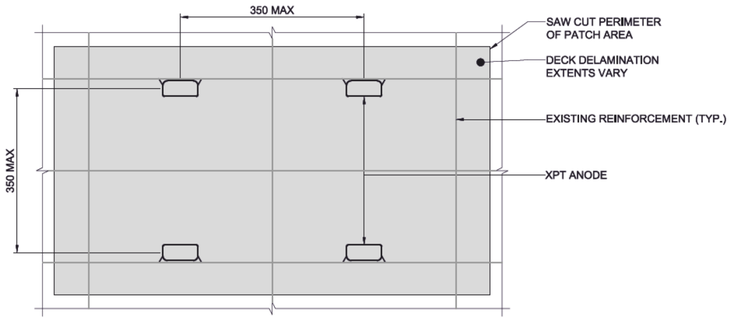


TYPICAL DETAIL

2

DOWEL & SLEEVE - BARRIER EXPANSION JOINT

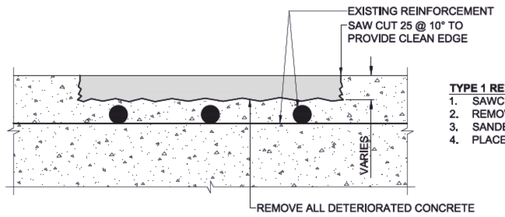
SCALE: 1:5



TYPICAL TYPE 1 & 2 CONCRETE REPAIR FOR CULVERT SLAB / WALL

PLAN

SCALE NTS



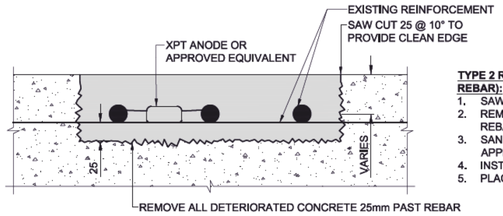
TYPE 1 REPAIR PROCEDURE (NO EXPOSED REBAR):

1. SAWCUT PERIPHERY OF REPAIR AREA TO 25 DEEP.
2. REMOVE ALL DETERIORATED CONCRETE.
3. SANDBLAST CONCRETE SURFACE.
4. PLACE NEW CONCRETE TO COMPLETE PATCH REPAIR.

TYPICAL TYPE 1 CONCRETE REPAIR FOR CULVERT SLAB / WALL

ELEVATION

SCALE NTS



TYPE 2 REPAIR PROCEDURE (DELAMINATION EXTENDS TO REBAR):

1. SAWCUT PERIPHERY OF REPAIR AREA TO 25 DEEP.
2. REMOVE ALL DETERIORATED CONCRETE 25mm PAST REBAR.
3. SANDBLAST ALL EXPOSED REINFORCING STEEL AND FIELD APPLY EPOXY COATING TOUCH UPS WHERE REQUIRED.
4. INSTALL XPT ANODE.
5. PLACE NEW CONCRETE TO COMPLETE PATCH REPAIR.

TYPICAL TYPE 2 CONCRETE REPAIR FOR CULVERT SLAB / WALL

ELEVATION

SCALE NTS

NOTES:

1. MEDIUM CRACKS TO BE ROUTED AND INJECTED WITH EPOXY.

ENGINEERS GEOSCIENTISTS MANITOBA
Certificate of Authorization
MORRISON HERSHFIELD
No. 1736

TENDER No. 233-2022

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	AH	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-Details02.dwg

Winnipeg

THE CITY OF WINNIPEG
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

REHABILITATION OF ROUTE 90 CULVERT OVER OMAND'S CREEK

CONCRETE DETAILS 2 OF 2

CITY DRAWING NUMBER: C315-21-13

SHEET 13 OF 27

DRAWING NUMBER: 13

ISO A1 - 594mm x 841mm

x:\Proj\2022\220042500-cofw rte 90 culvert over omands cre\09_cad\07 sheets\220042500-Rte 90-Details02.dwg Last Saved: 5/4/2022 9:13 AM by AHepponer Plotted: 5/10/2022 7:29 AM by Alex Hepponer