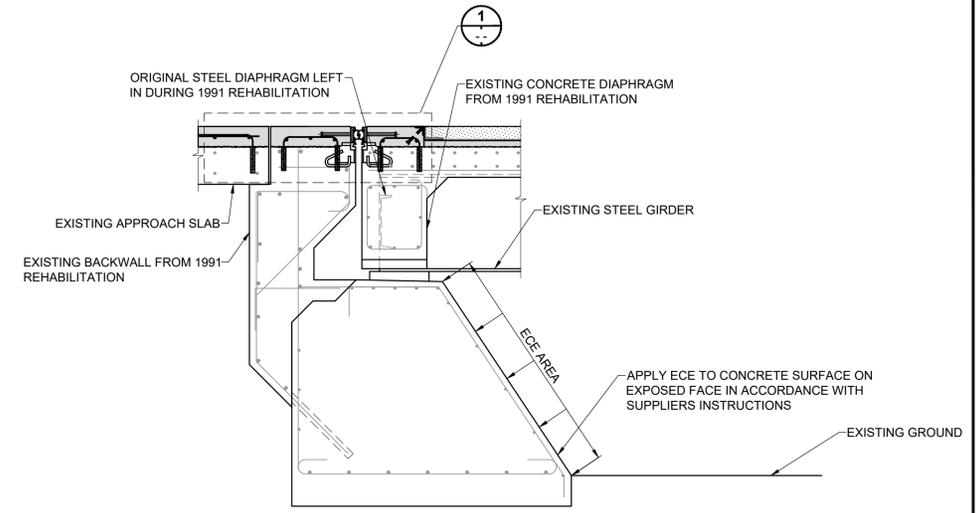
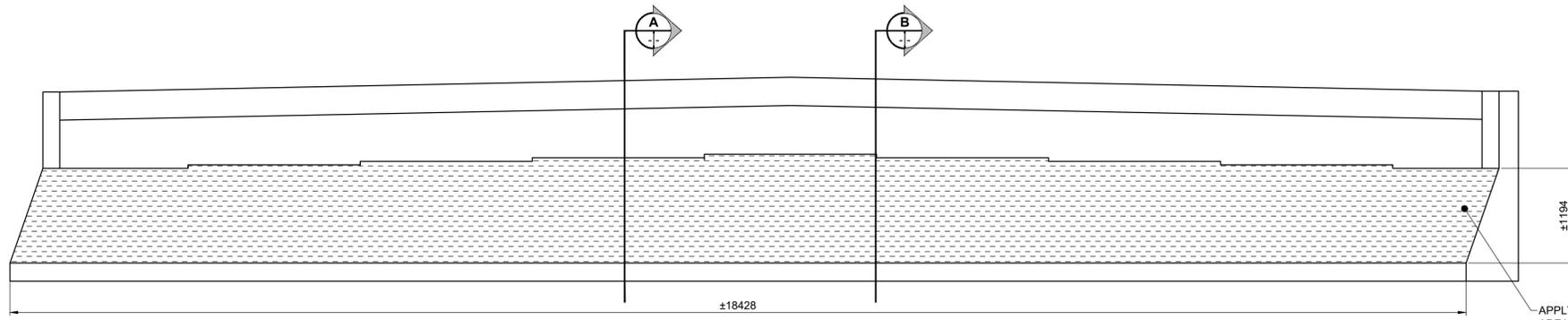


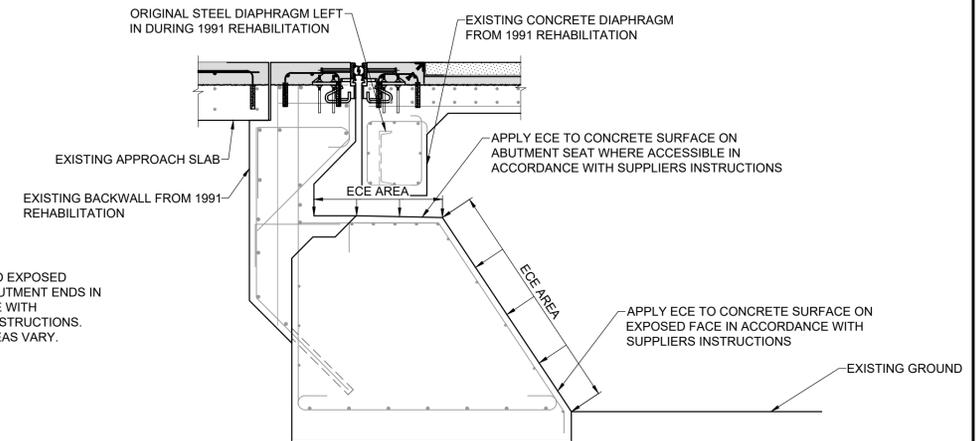
NORTH AND SOUTH ABUTMENT PLAN VIEW - ECE EXTENTS
SCALE: 1:40



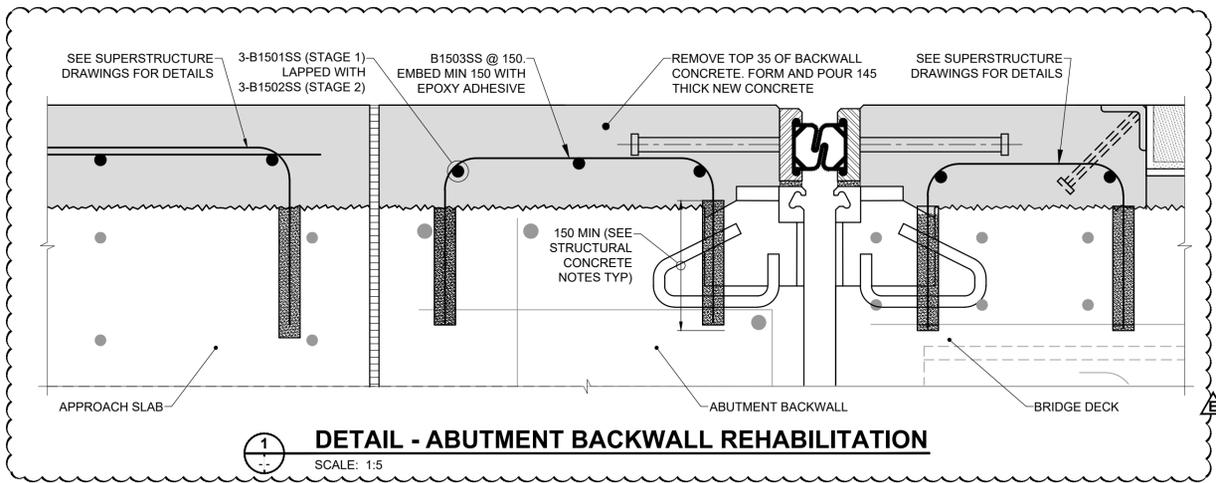
SECTION: ECE EXTENTS AT GIRDERS
SCALE: 1:25



NORTH AND SOUTH ABUTMENT FRONT ELEVATION - ECE EXTENTS
SCALE: 1:40



SECTION: ECE EXTENTS BETWEEN GIRDERS
SCALE: 1:25



DETAIL - ABUTMENT BACKWALL REHABILITATION
SCALE: 1:5

- GENERAL NOTES:**
- ECE STANDS FOR ELECTROCHEMICAL CHLORIDE EXTRACTION.
 - SANDBLAST SURFACES SUBJECT TO ECE.
 - COMPLETE ALL CONCRETE REPAIRS PRIOR TO INSTALLING AND APPLYING ECE. REFER TO SHEETS 87 AND 99 FOR DETAILS.
 - ALL EXPOSED CONCRETE SURFACES TO BE TREATED WITH SILANE SEALER AFTER ALL REPAIRS, INCLUDING ECE TREATMENT, ARE COMPLETE.
 - REFER TO RESISTANCE TESTING LETTER REPORT DATED JUNE 19, 2018 BR VECTOR CORROSION TECHNOLOGIES TO DETERMINE ECE DESIGN AND DURATION.
 - PILES NOT SHOWN FOR CLARITY.

LEGEND:

- NEW CONCRETE
- ECE EXTENTS

STRUCTURAL CONCRETE NOTES:

- EPOXY GROUT FOR DOWELS SHALL BE HILTI HIT-RE 500-V3 OR EQUIVALENT.
- ALL STEEL DOWELS SHALL BE 15M @ 150 O.C. WITH 150MM EMBEDMENT UNLESS NOTED OTHERWISE.



METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

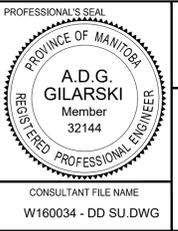
LOCATION APPROVED
UNDERGROUND STRUCTURES

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	DATE	BY
E	ISSUED FOR ADDENDUM 2	18/10/16	BAP
D	ISSUED FOR TENDER	18/03/04	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	AF

DESIGNED BY	AG	CHECKED BY	BAP
DRAWN BY	AH	APPROVED BY	BE
HOR SCALE	AS SHOWN	RELEASED FOR CONSTRUCTION	N/A
VERT SCALE	AS SHOWN	DATE	



THE CITY OF WINNIPEG
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

EMPRESS STREET PROJECT
OVERPASS REHABILITATION WORKS
SUBSTRUCTURE
NORTH AND SOUTH ABUTMENT REHABILITATION

CITY DRAWING NUMBER: P-3494-98
SHEET 98 OF 169
DRAWING No. REV 98 E

CONSULTANT FILE NAME: W160034 - DD SU.DWG