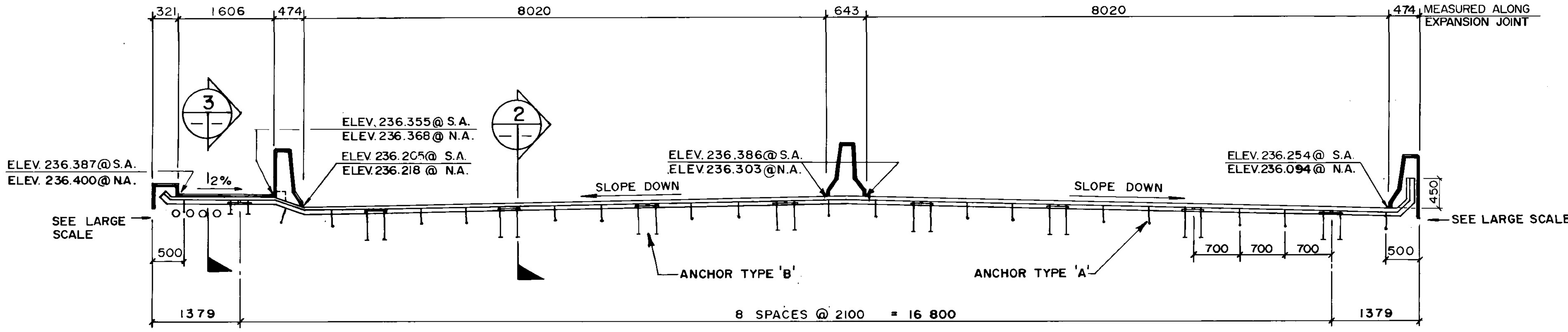
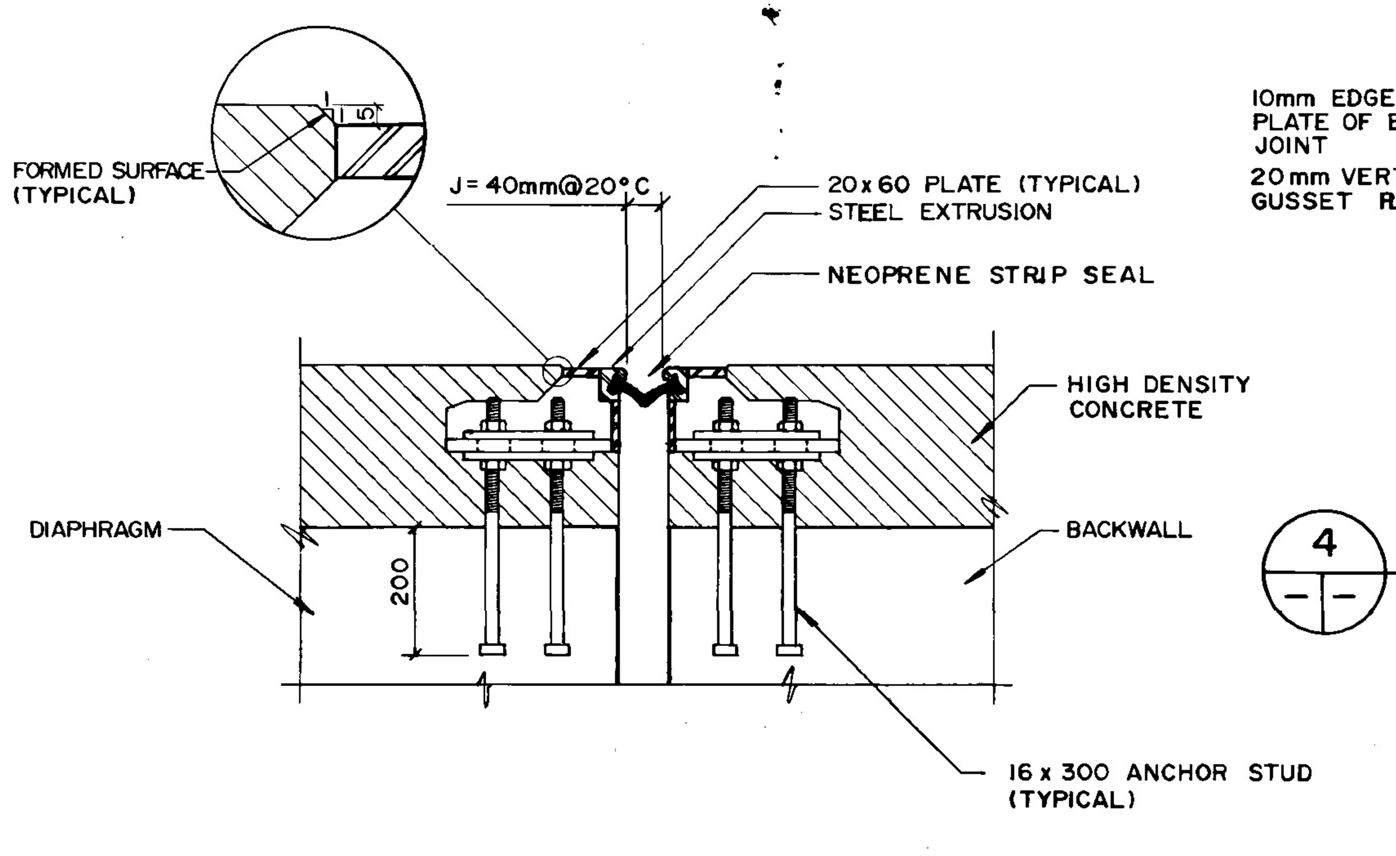
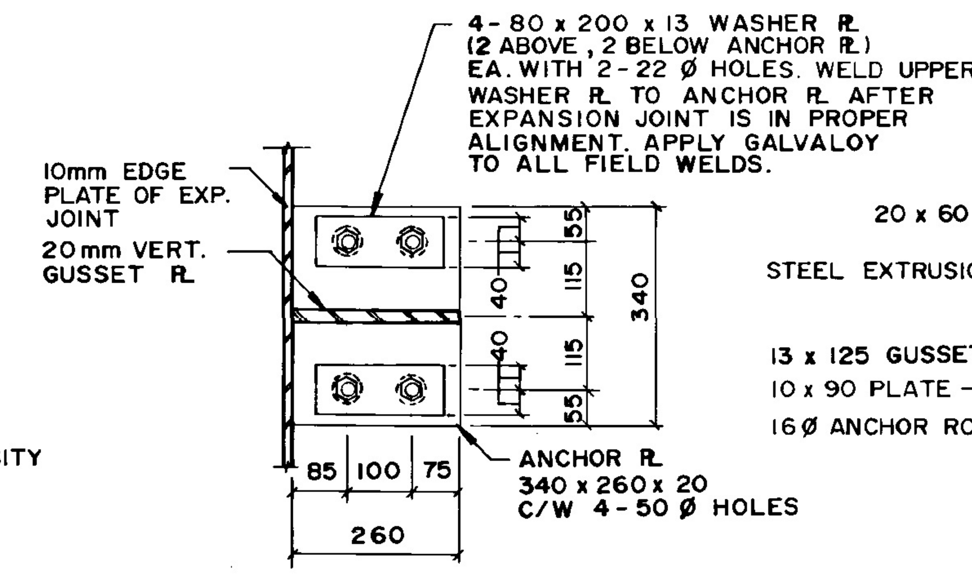
WO 101-84



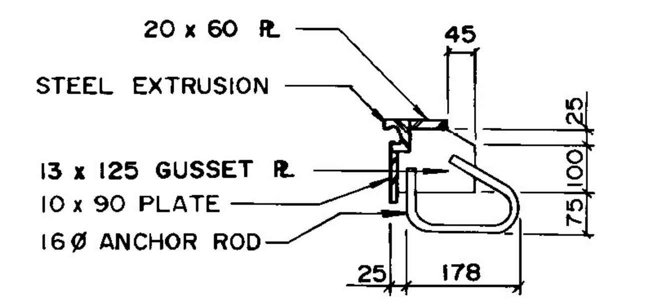
1 ELEVATION
1 : 50



2 SECTION
1 : 10



4 ANCHOR TYPE 'B'
1 : 10



5 ANCHOR TYPE 'A'
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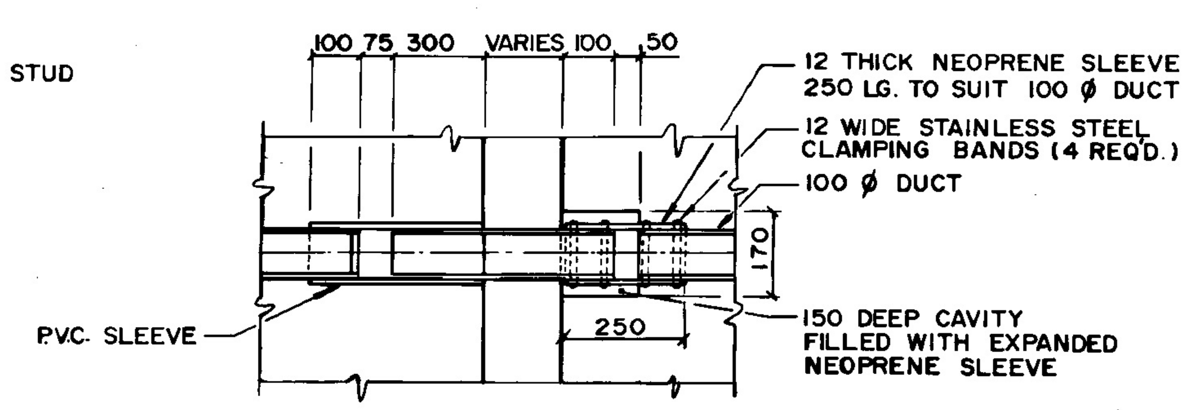
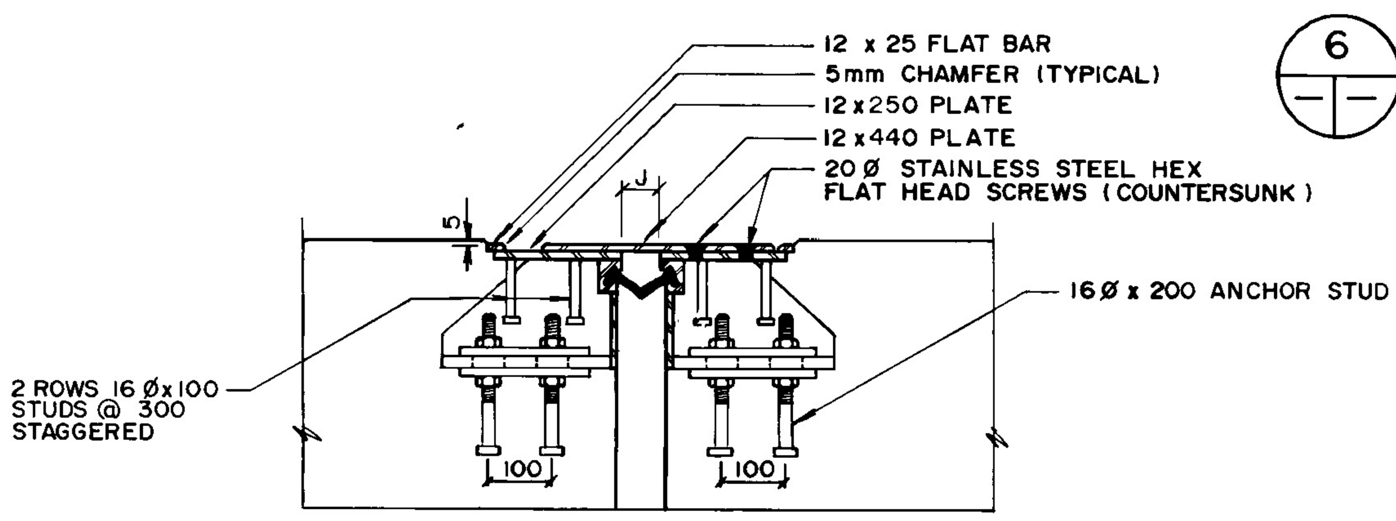


6 TYPICAL DUCT EXPANSION JOINT ASSEMBLY
N.T.S.

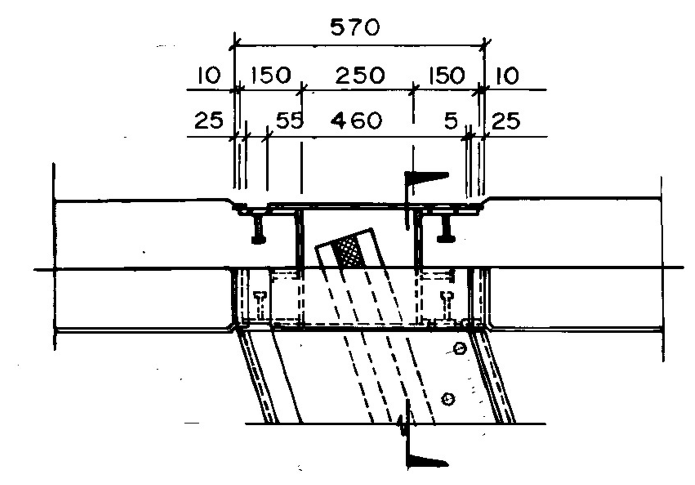


3 SECTION
1 : 10

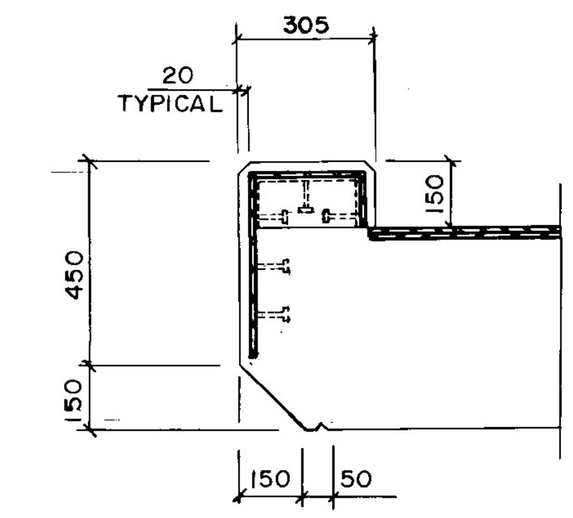
TEMPERATURE WIDTH ADJUSTMENT TABLE								
TEMP. °C	5	10	15	20	25	30	MIN.	MAX.
DIM. 'J' mm	45	43	42	40	38	37	35	76

NOTES:

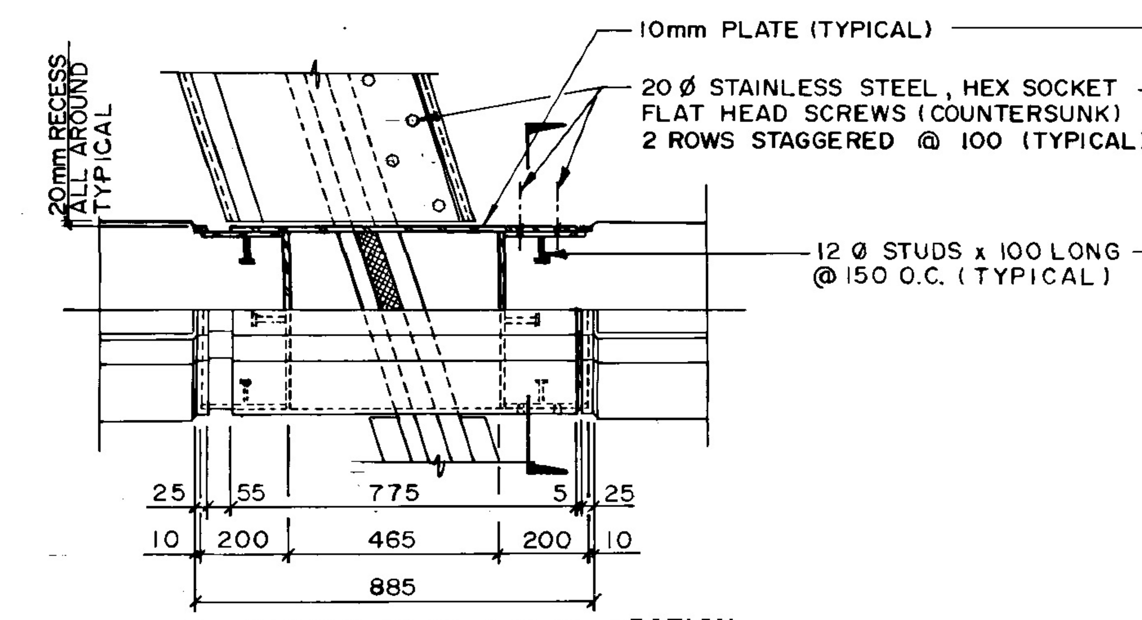
1. Manufacturer's shop drawings shall be submitted to the contract administrator for approval at least fourteen (14) working days prior to fabrication. The expansion joint assemblies shall be designed to carry AASHTO HS30-44 live loading.
2. Steel shall be in accordance with CSA Standard G40.21M Grade 300 WT or equal.
3. Steel extrusions shall be in accordance with CSA Standard G40.21M Grade 230 G minimum.
4. All steel surfaces shall be hot dip galvanized to a net retention of 600 G/M2 in accordance with CSA Standard G 164 after fabrication and installed in one continuous piece.
5. Joint assembly shall be fabricated and completely shop assembled and preset to dimension 'J' for 15C prior to shipment.
6. Welding shall be of low hydrogen classification. Manual elecrtodes shall be E7016 or E7018. All welding shall be in accordance with CSA Standard W59.
7. Seal shall be preformed neoprene rubber seal. Each rubber seal shall be supplied and installed in one continuous piece. No splices in the rubber seal will be permitted unless authorized by the contract administrator.
8. Joint assembly shall be installed 5mm below elevation and grade of bridge deck.
9. After removal of clamping channels and spacer dam, bolt and bleeder holes to be filled with an approved epoxy grout.
10. Installation temperature shall be taken as the mean shade air temperature prior to joint installation at the structure as follows: for concrete structures – 48 hours. For steel structures – 24 hours.
11. All areas of damaged galvanizing shall be repaired by using the galvaloy procedure as specified.
12. All barrier coverplates shall be recessed 20mm from the face of concrete.



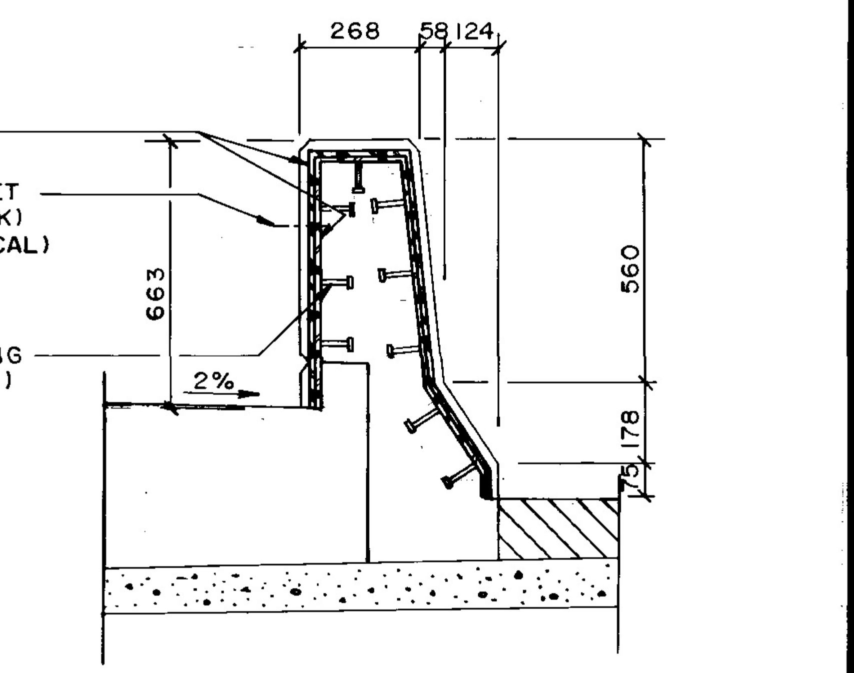
CURB PLAN / PLAN SECTION



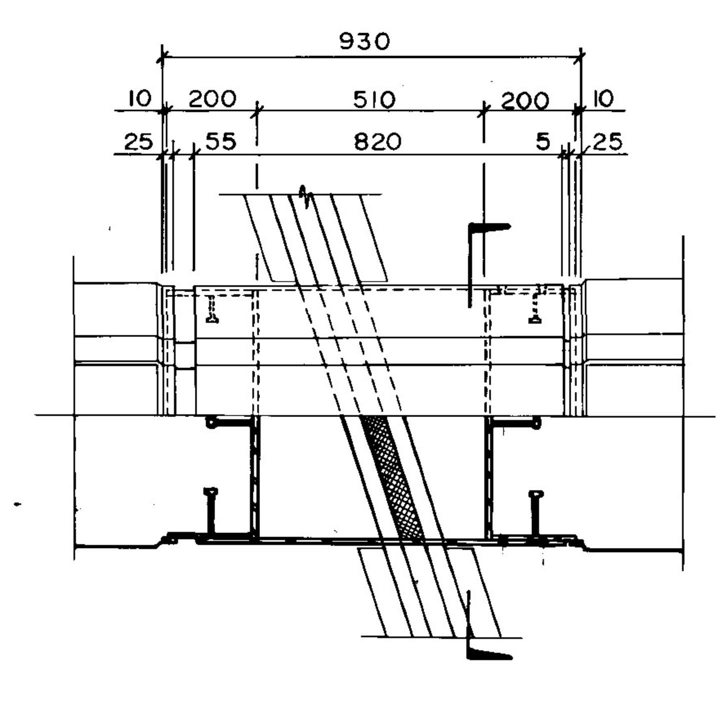
CURB SECTION



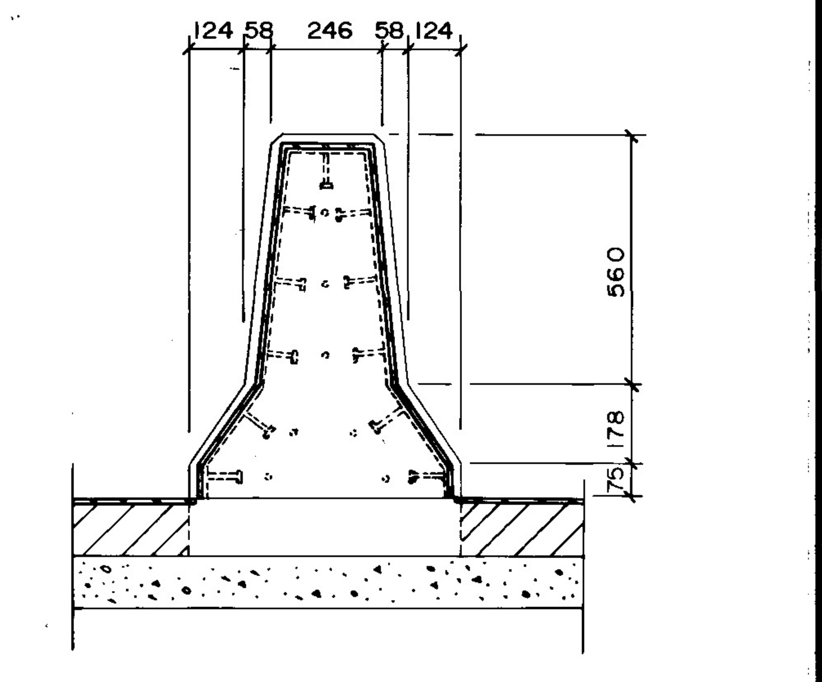
SIDEWALK SHOULDER BARRIER PLAN / PLAN SECTION



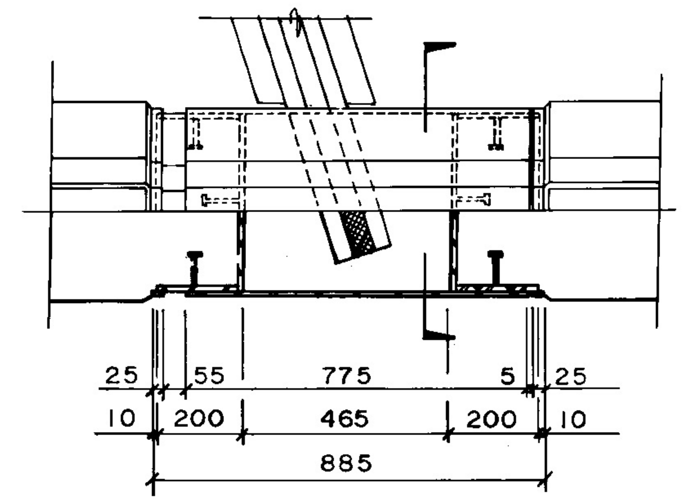
SIDEWALK SHOULDER BARRIER SECTION



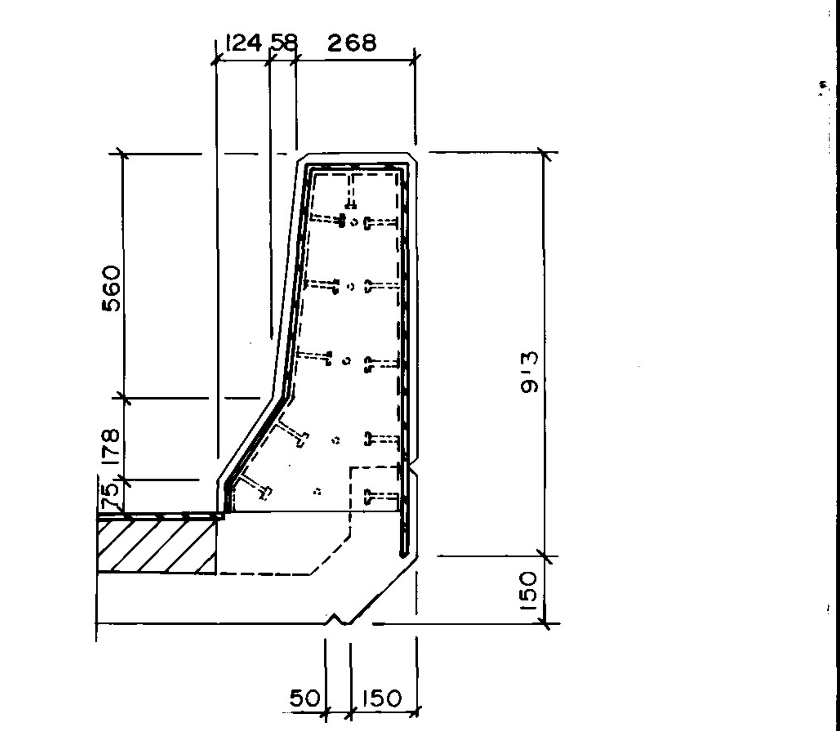
MEDIAN BARRIER PLAN / PLAN SECTION



MEDIAN BARRIER SECTION



SHOULDER BARRIER PLAN / PLAN SECTION



SHOULDER BARRIER SECTION

7 CONCRETE TRAFFIC BARRIER EXPANSION DETAILS
NTS

B-5903-14

AS-BUILT
DATE 91.02.26 BY
CHECKED BY

LOCATION APPROVED UNDERGROUND STRUCTURES
N/A
SUPV. 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

B.M.
ELEV.

NO.	REVISIONS	DATE	BY
1	REVISED AS CONSTRUCTED	90·12·14	FPC

WARDROP ENGINEERING INC.

DESIGNED BY: JC & FPC	CHECKED BY
DRAWN BY: LG	APPROVED BY
HOR. SCALE / VERTICAL: AS NOTED	AUTHORIZED BY — W. NAUMKO/STREETS & BRIDGES ENGINEER — DATE 91 02 23
DATE: JAN. 15, 1990	ACCEPTED BY — G.R. SMITH/BRIDGE ENGINEER — DATE 91 02 23

ENGINEER'S SEAL
PROVINCE OF MANITOBA
C. D. STEWART
REGISTERED ENGINEER

CONSULTANT DRAWING NO.
890007-02-00

THE CITY OF WINNIPEG
WORKS AND OPERATIONS DIVISION
STREETS AND TRANSPORTATION DEPARTMENT

EMPRESS STREET OVERPASS
STRUCTURE REHABILITATION, STRENGTHENING AND RELATED WORKS
EXPANSION JOINT DETAILS

CITY DRAWING NUMBER
B100-90-11