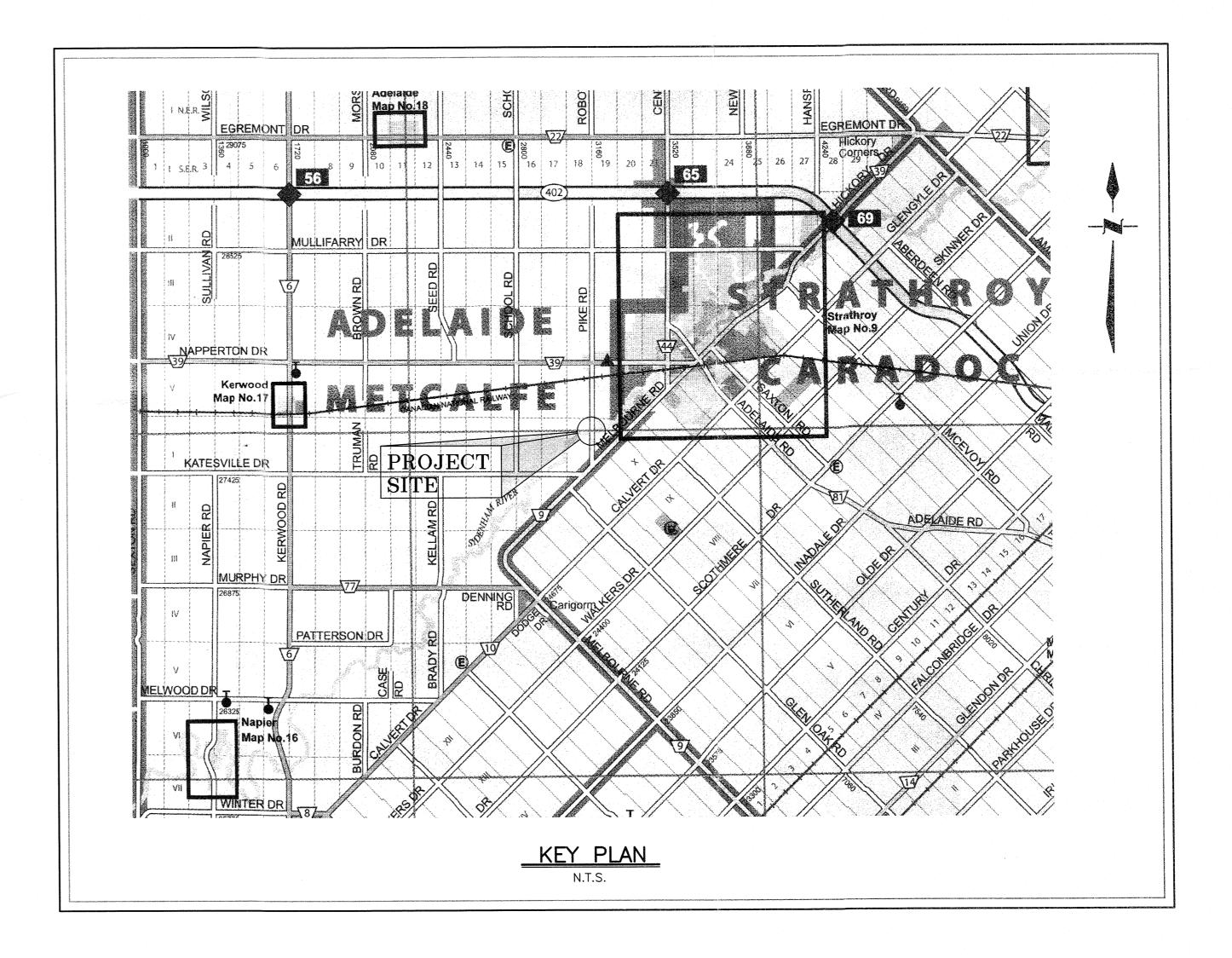
PIKE ROAD BRIDGE REHABILITATION TOWNSHIP OF ADELAIDE METCALFE

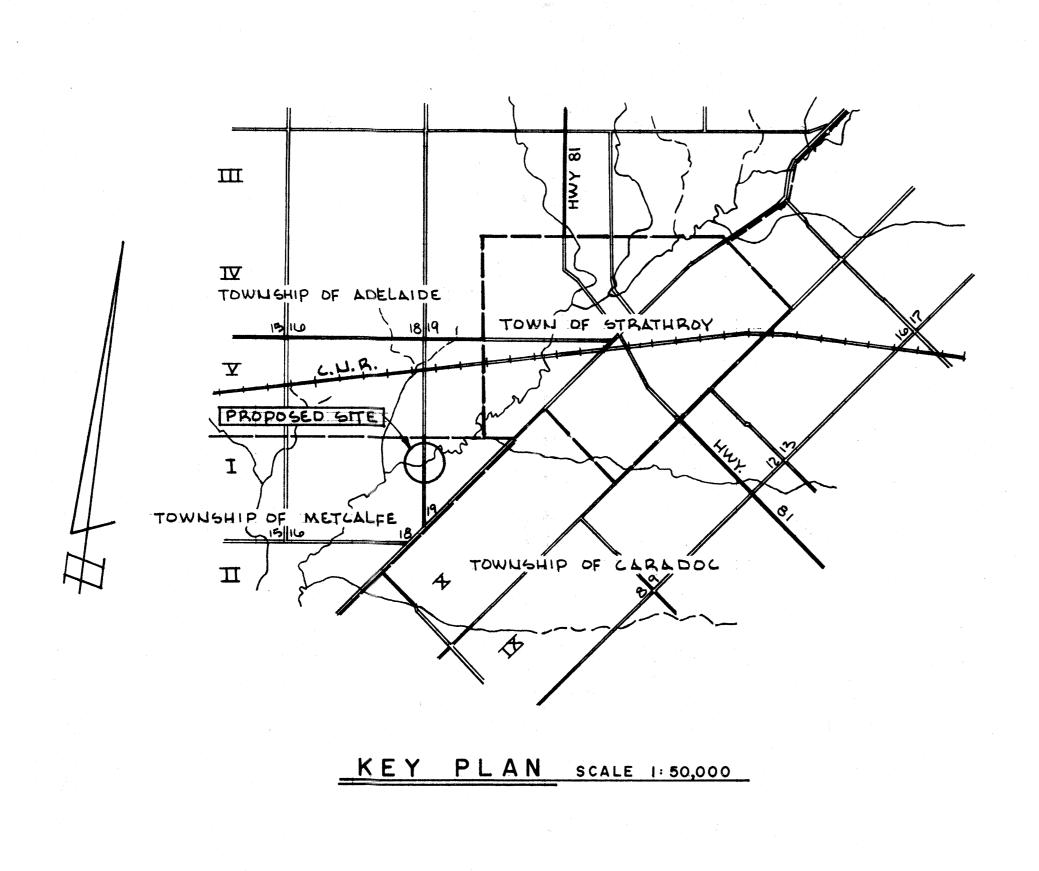
	INDEX OF I	DRAWINGS
DRAWING No.	DESC	RIPTION
	COVER SHEET	
1.	PLAN, ELEVATION & DETAILS	
2.	SECTIONS & DETAILS	

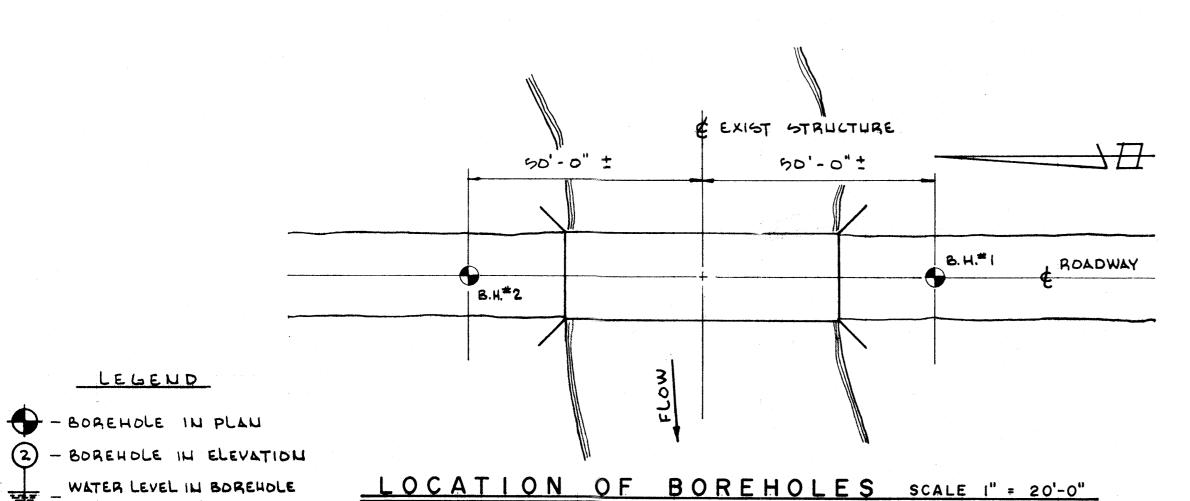


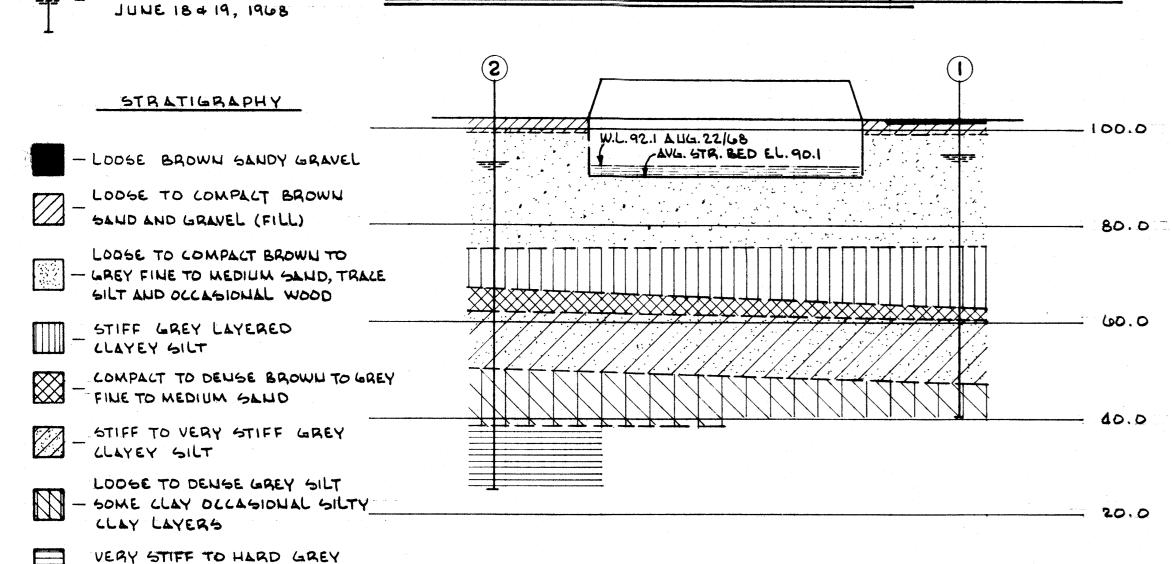
PIKE ROAD



JOB No. 205229 JULY 12, 2011



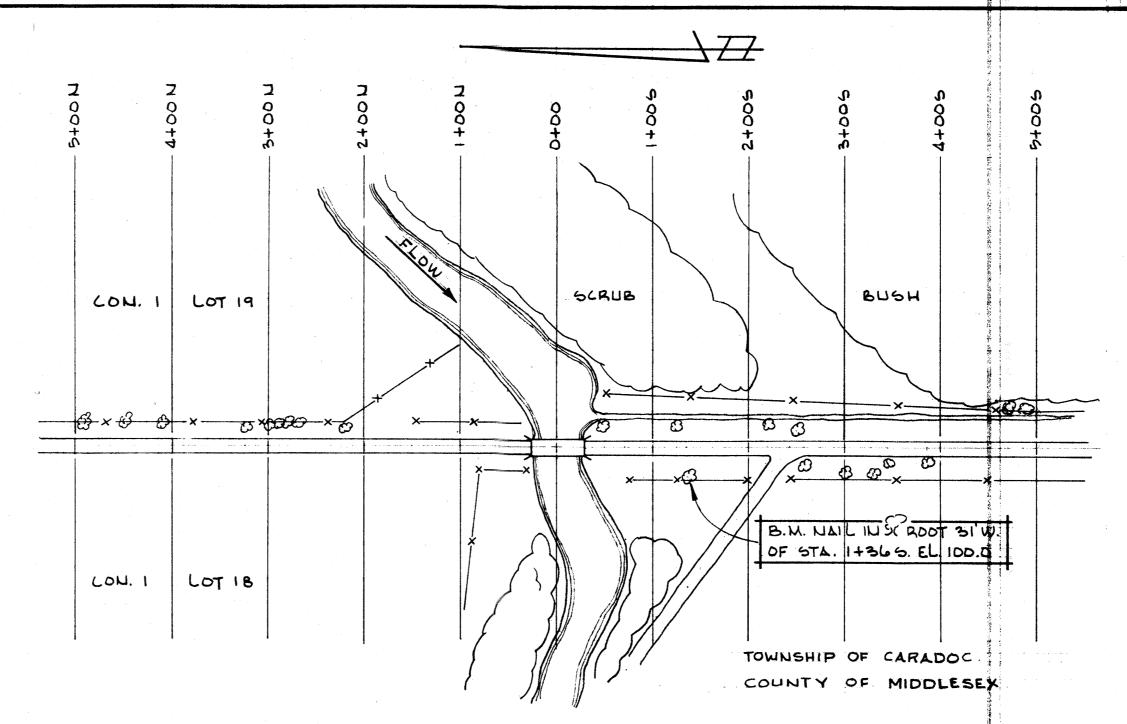




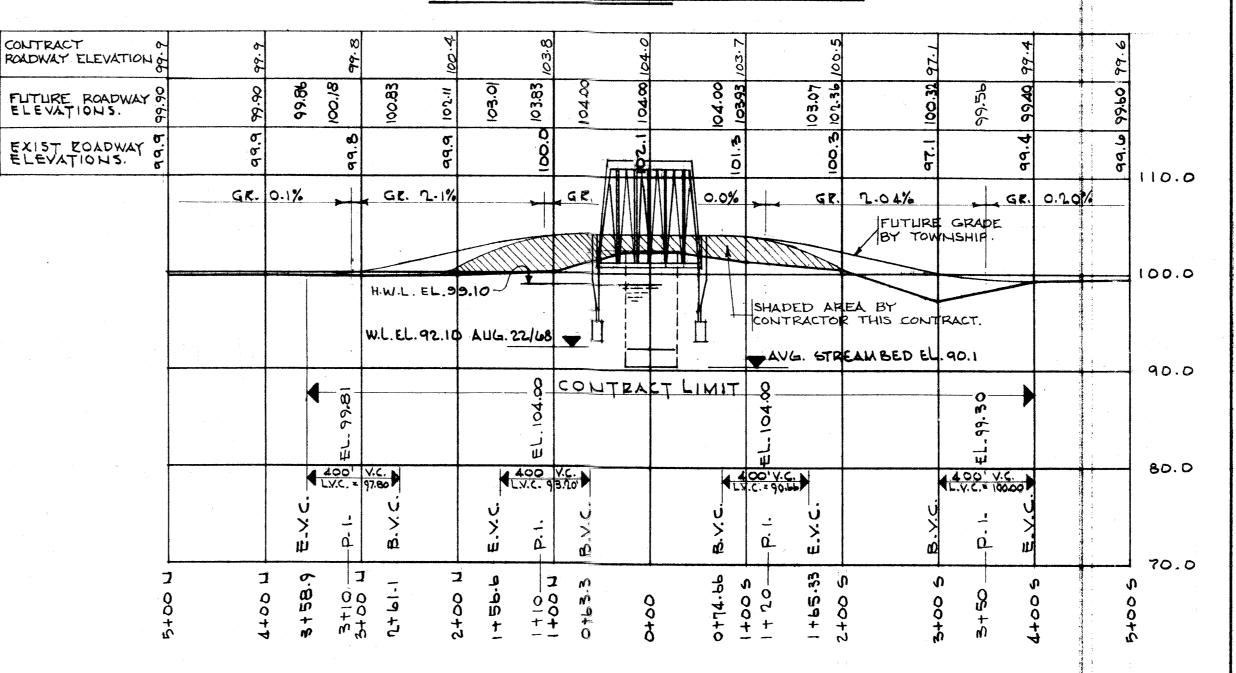
LEGEND

CLAYEY SILT TILL

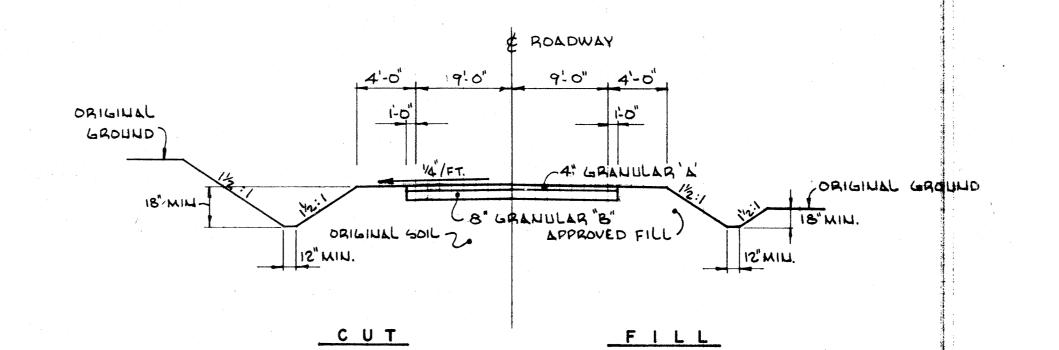
SUBSURFACE PROFILE SCALE VERT. & HOR. I" # 20'-0"



SITE PLAN SCALE 1" = 100'



ROADWAY PROFILE SCALE VERT. 1"=10'-0" HOR. |"= 100"



ROADWAY PROFILE SCALE I" # 10'-0"

DATA

1. Special Features: Waterfall, Exceptional Floods, Ice, Driftwood, Sliding

Watershed is of a permeable nature, has wide flood plain, some extend of ice flows. The river has a flat gradient and is subject to some periodic

2. (A) Upstream and Downstream Bridges (Give location, length, height above N.H.W.L., Net Cross-Sectional area at N.H.W.L., Est. Age):

channel silting and erosion.

been raised approximately two feet.

- 1. 4.0 miles upstream 40°-50°-40 spans, curb to curb, prestressed concrete beam bridge 16.5° u/s of deck to streambed. Excellent condition, constructed in 1967-68.
- 2. 3.0 miles upstream 73.5 span, 17° roadway; fair condition 0° u/s of deck to H.W.L. Age 40-50 years.
- 3. 2.5 miles upstream 3 span structure on Hwy. #81 30°-55°-30° C. to C. of bearings; 30° curb to curb, 2.5° u/s of deck to H.W.L. Constructed
- 4. 1.0 miles downstream 85° span steel truss, 30° skew, concrete deck 20° exist roadway width, 10° u/s of deck to streambed. Age 15-20 years, good condition.
- 5. 3.5 miles downstream 88° span steel beam concrete deck 30° roadway width, 10° u/s of deck to streambed. Constructed in 1961, excellent
- (B) Reasons why these bridges are, or are not, a fair indication of span

These structures are a fair indication of the span required.

- 3. Reasons for changes in height or length from that of old bridge: We propose to replace the existing 59° span steel truss with a 98° span steel truss which was removed from Bridge Site No. 19-197. The deck elevation has
- 4. Is Ditch, Stream, or River Gradient Liable to be lowered? NO
- 5. Is a temporary detour required? NO
 Who will build it? —
 Who will maintain it? ——
 - Information and evidence of extreme flooding was obtained from Hydrology reports and local residents and reflects highest water elevation in the area of this
- 7. Has approval been obtained under the Navigable Water Protection Act? __ No.

construction to be 99.1 and the lowest water elevation to be 90.1.

8. Road Design Information: Estimated A.A.D.T. 40 vpd. Design Speed: 40-45 mph.
Stopping Sight Distance: 275 ft.

STRUCTURE DATA

- 1. Net Span Length and Type of Bridge: 98 SPAN STEEL TRUSS, CONC. DECK ON CONC ABUTMENTS ON TUBE PILES
- 2. Roadway Width on Bridge: 23'- 0"
- 3. Number and Width of Sidewalk: NONE
- 5. Total Length and Type of Pilling: 588 LIN. FT. OF 1234 DIA STEEL TUBE PILE
- 6. Approx. Volume of Concrete: 141.0 Cu.yds
- 7. Approx. Weight of Str. Steel:
- 8. Approx. Weight of Reinforcement: 10 TONS
- 9. Approx. Volume of Approach Fill within 100° each side of structure: 800 cu Yds.
- 10. Drainage Area: 89 59 Miles

Field Investigation Made <u>AuG. 22 1968.</u>

W.E. KELLEY
Survey Engineer

250 W

BRIDGE NO.

TOWNSHIP

MUNICIPAL DISTRICT NO. 2

DRAWING NUMBER

1 of 4

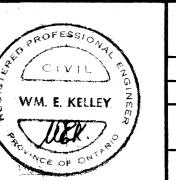
TOWNSHIP METCALFE

LOTS 18 8 19

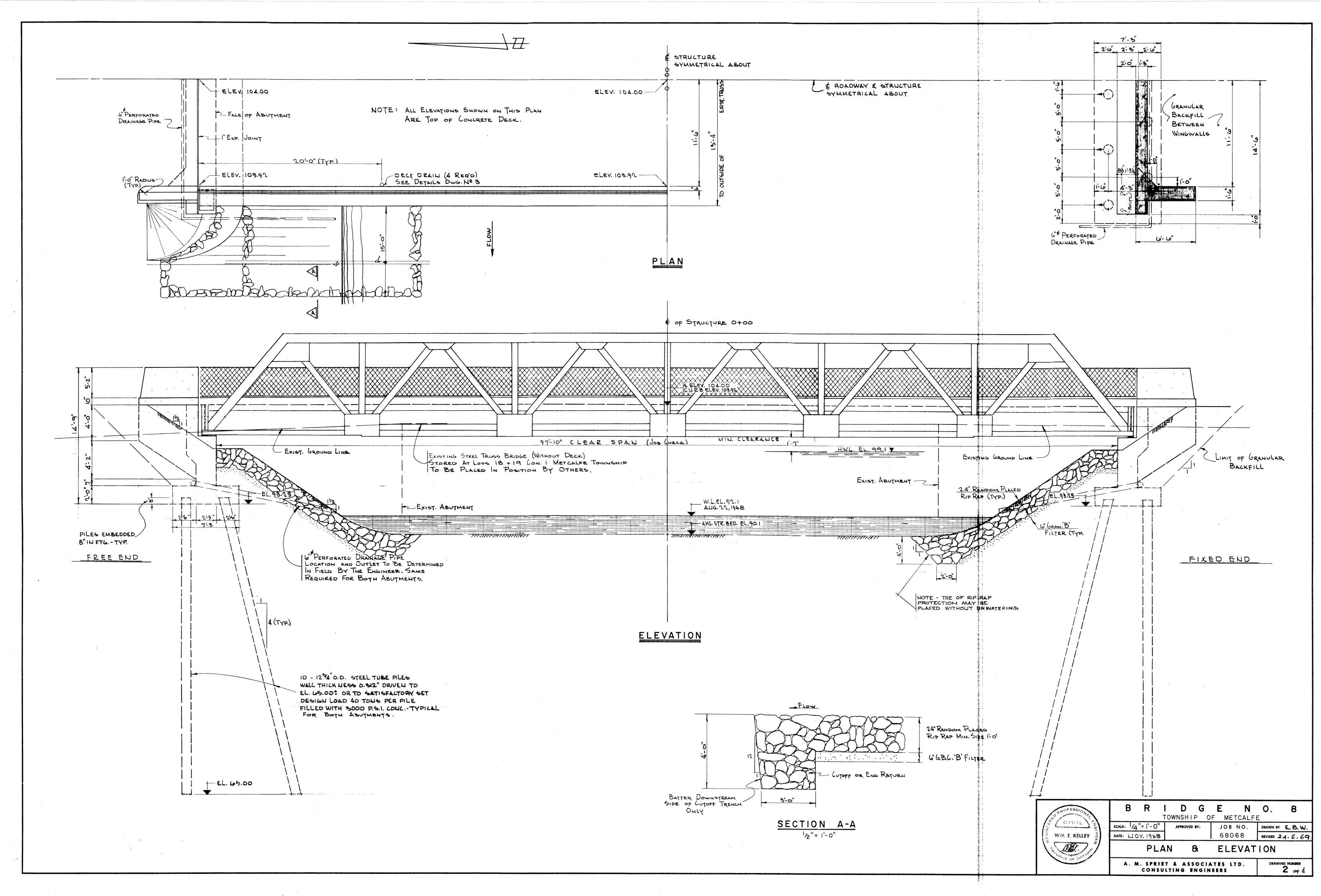
A. M. SPRIET & ASSOCIATES LTD.

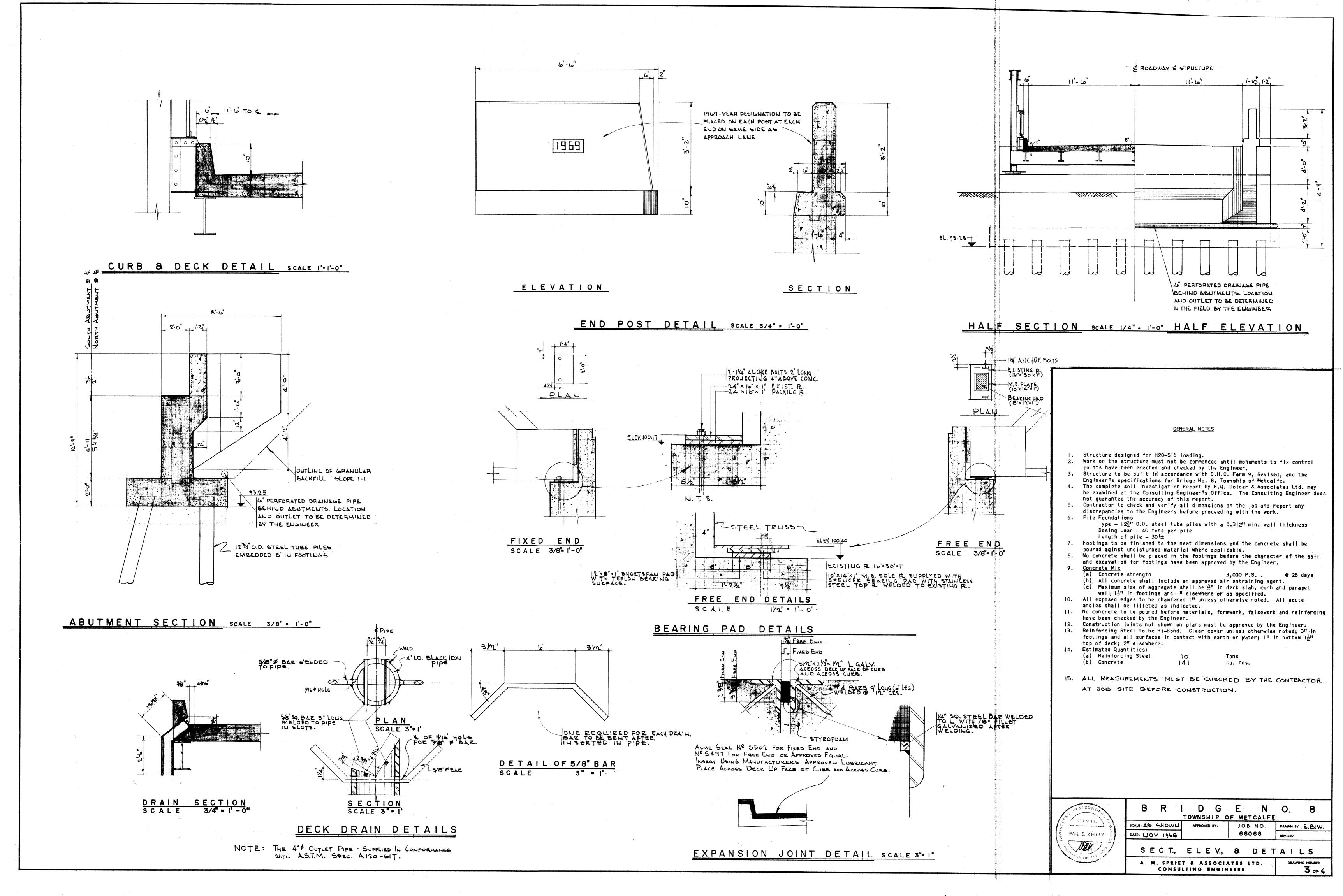
CONSULTING ENGINEERS

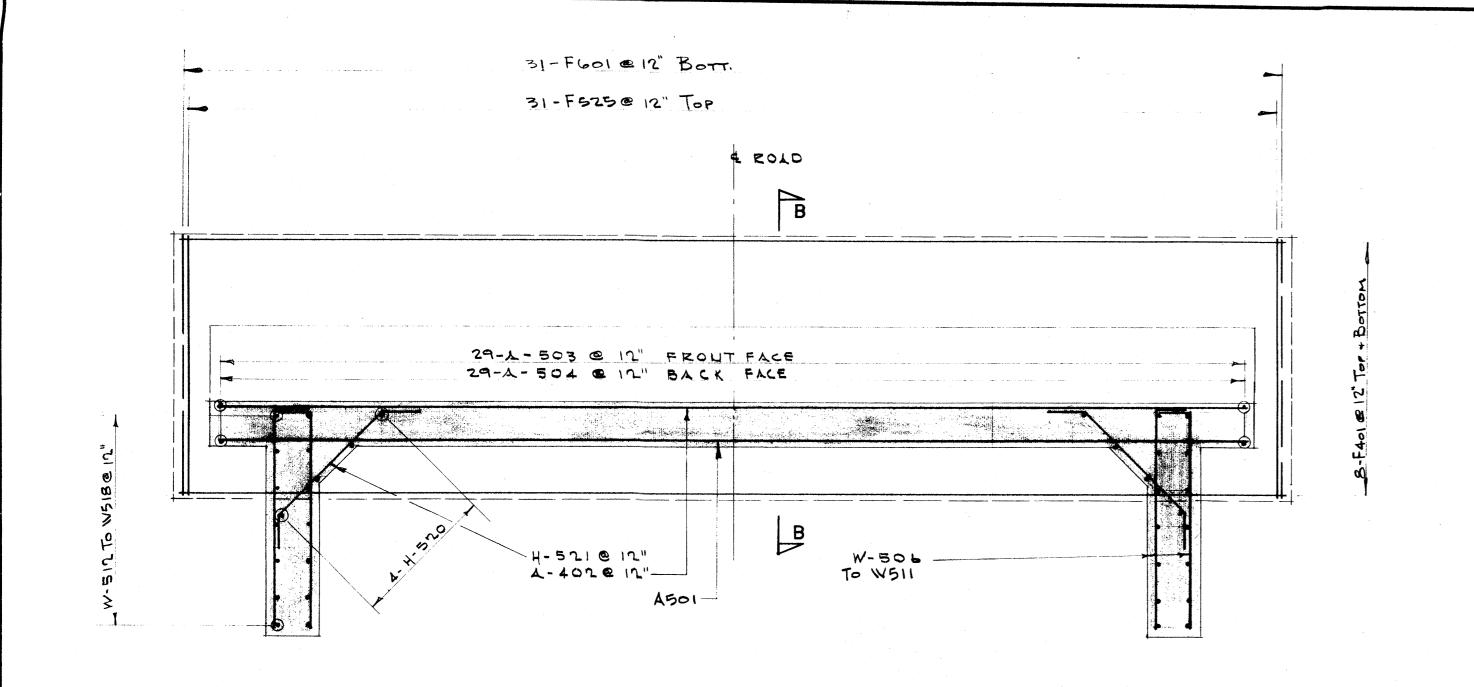
COUNTY MIDDLESEX CONCESSION

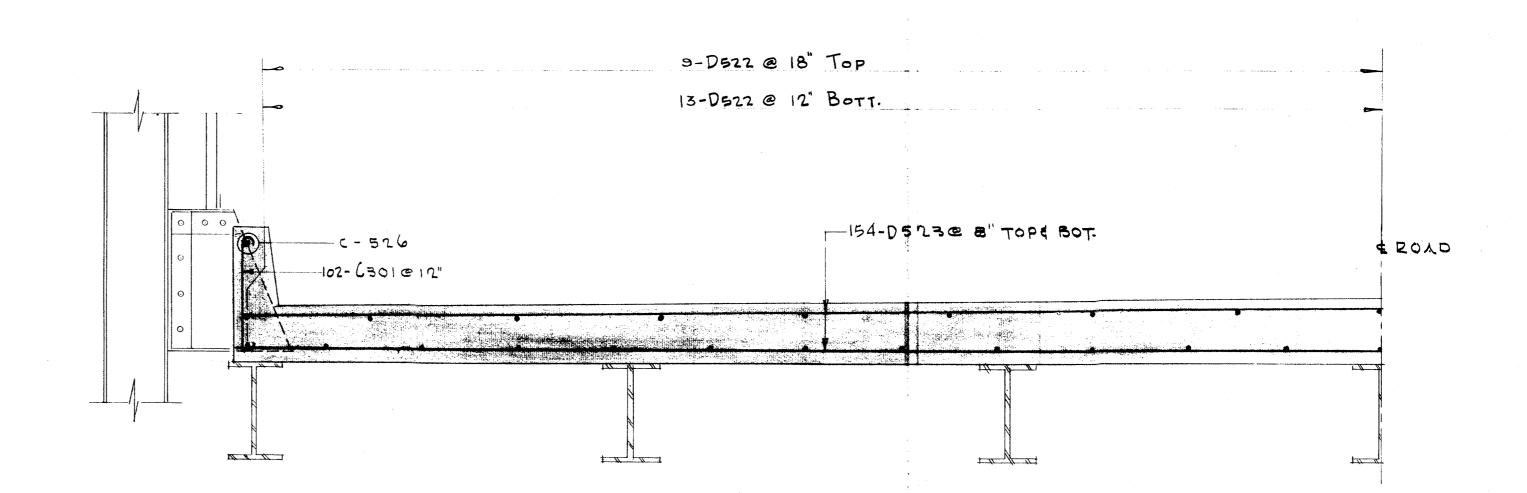


SCALE: AS SHOWL DATE: MOV. 1968 F.B. 33 68068 REVISED 24 6 6 6 MARTIN WALKER ROAD SUPERINTENDENT







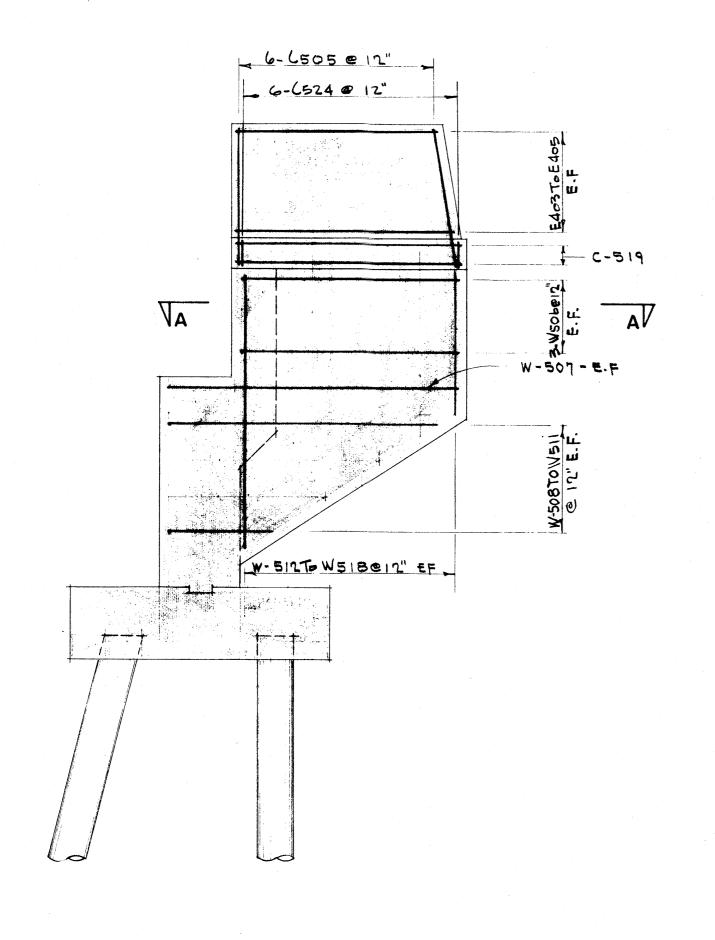


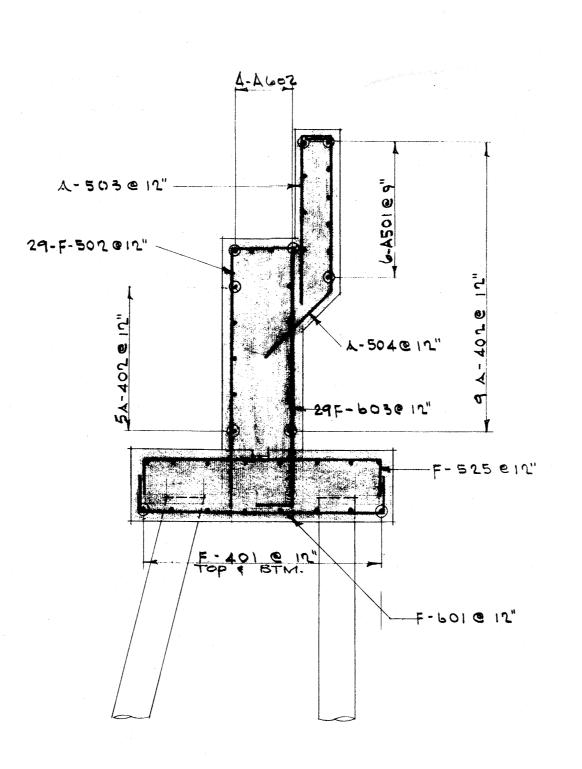
SECTION A-A SCALE 3/8" = 1'-0"

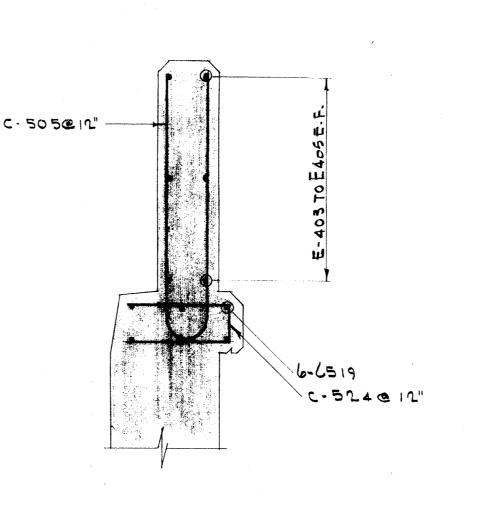
DECK REINFORCEMENT

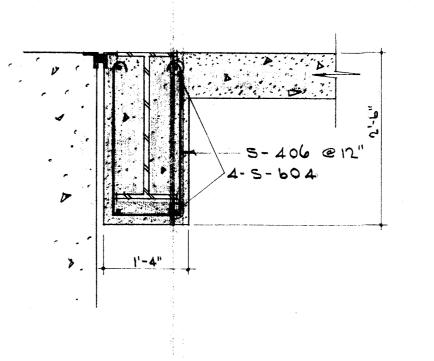
SCALE

I" = 1'-0"









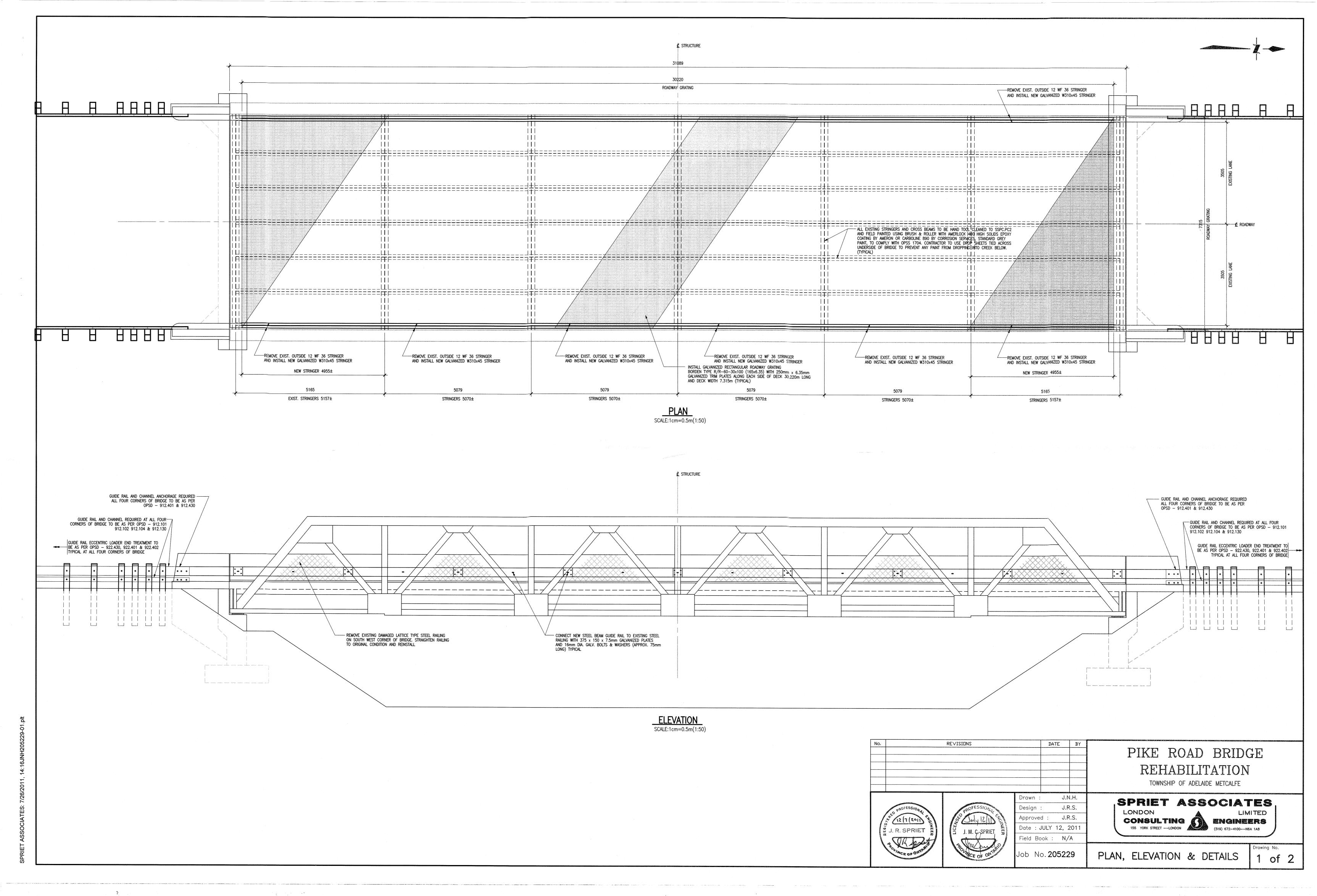
DIAPHRAGM REINFORCEMENT SCALE 3/4" = 1'-0"

WING WALL REINFORCEMENT SCALE W.T.S. SECTION B-B SCALE M.T.S.

END WALL REINFORCEMENT SCALE 3/4* = 1'-0"

WM. E. KELLEY STORY OF ON ONE OF ON ONE OF ON ONE OF ON ONE OF O

-	BRI	DGE	NO	0. 8
		_FE		
	SCALE: AS SHOWL	APPROVED BY:	JOB NO.	DRAWN BY M.G.F.
	DATE: NOV. 1968.		68068	REVISED
	REINI	DET	AILS	
	A.M. SPR Consul		DRAWING NUMBER 4 of 4	



CONCRETE MIX - M.T.O. 30MPa STANDARD, 355 Kg CEMENT/m (MIN. STRENGTH @ 28 DAYS 30 MPa

- OR 4350 p.s.i.) - ALL CONCRETE SHALL INCLUDE AN APPROVED AIR ENTRAINING AGENT, 5% TO 8% AIR ENTRAINED REQUIRED.
- MAXIMUM SIZE OF AGGREGATE SHALL BE 19mm. ALL EXPOSED EDGES TO BE CHAMFERED 25mm.

REINFORCING STEEL

- SHALL BE GRADE 400, CLEAR COVER UNLESS NOTED OTHERWISE SHALL BE 60mm.

ROADWAY GRATING

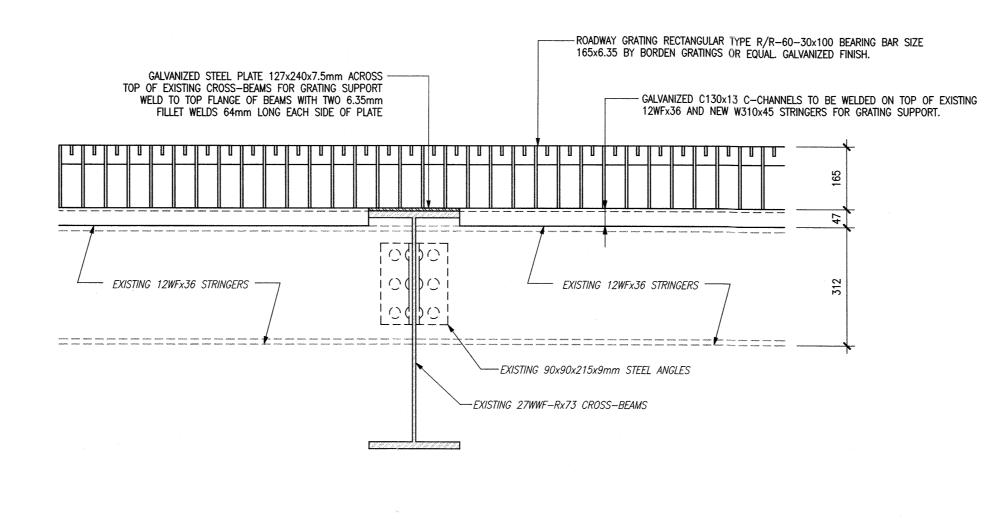
- ROADWAY GRATING TO BE RECTANGULAR TYPE R/R-60-30x100 BEARING BAR SIZE 165x6.35 BY BORDEN GRATINGS OR EQUAL. GALVANIZED FINISH. - WELD GRATING TO C-CHANNELS AFTER ALL SIDE SPLICING/WELDING IS COMPLETED. - WELD GRATING TO C-CHANNELS WITH 6.3mm FILLET WELD 64mm LONG. WELD

SPACES AT 250mm O.C. ALONG SUPPORTING BEAMS/C-CHANNELS. STAGGER WELDS

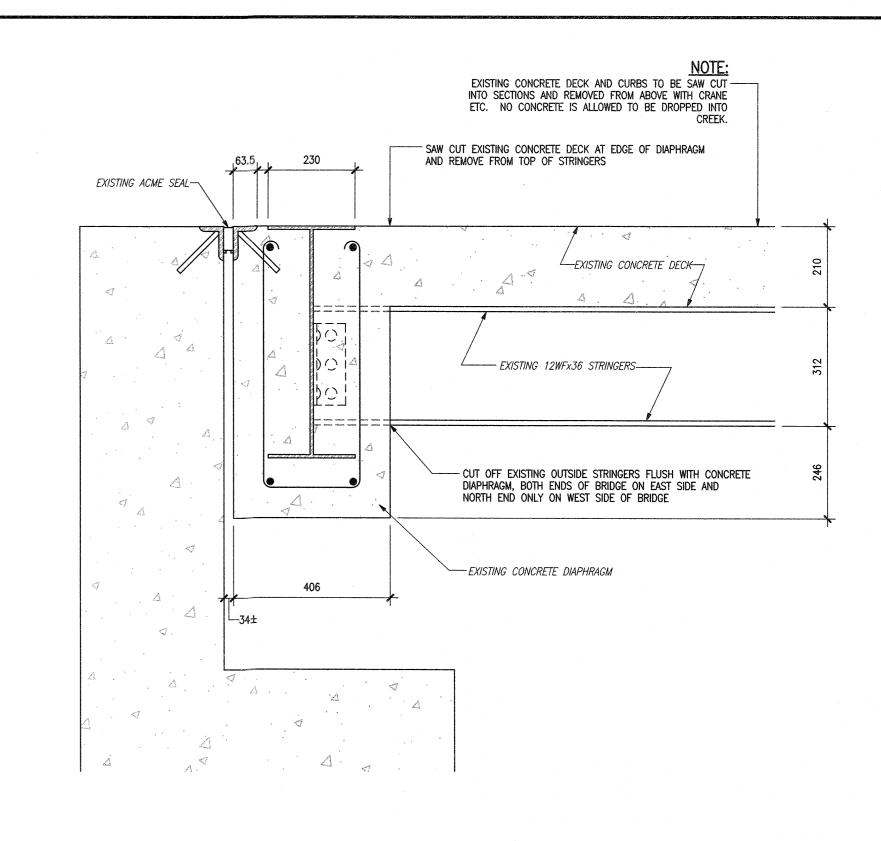
- AT ADJACENT BEAMS/C-CHANNELS. - ALL WELDS TO BE TOUCHED UP WITH ZINC RICH PAINT. - ROADWAY GRATING SUPPLIER TO PROVIDE SHOP DRAWINGS FOR THE ENGINEER'S
- APPROVAL PRIOR TO FABRICATION.

GRATING SUPPORT

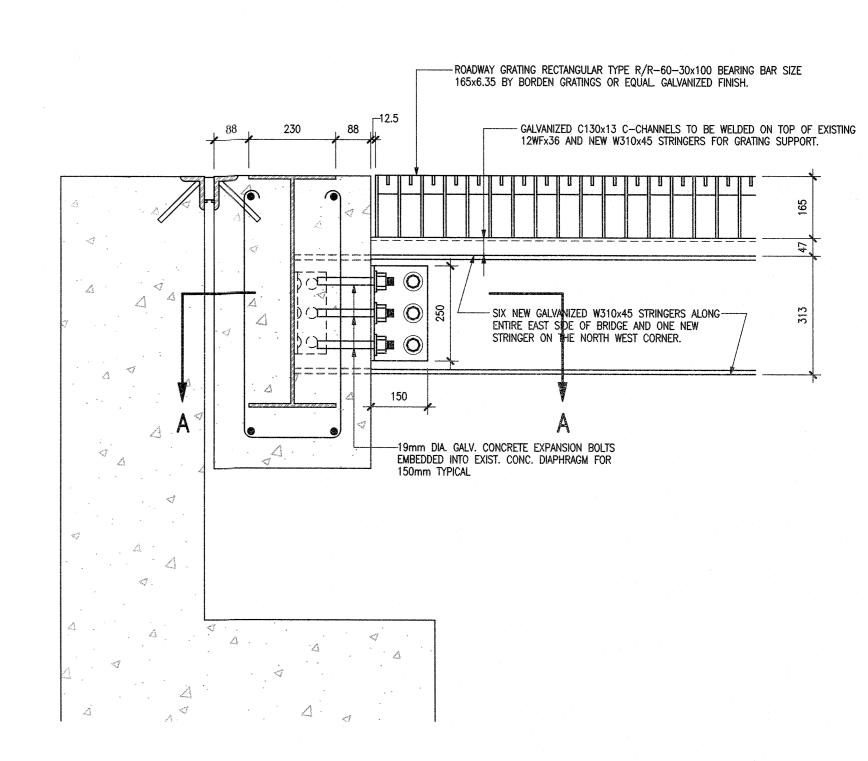
- GALVANIZED C130x13 C-CHANNELS TO BE WELDED ON TOP OF EXISTING 12WFx36
- AND NEW W310x45 STRINGERS FOR GRATING SUPPORT. - WELD C-CHANNELS TO STRINGERS WITH 6.3mm FILLET WELD 64mm LONG. WELD SPACES AT 250mm O.C. ALONG STRINGERS. STAGGER WELDS ALONG ADJACENT SIDES
- OF C-CHANNELS.
- ALL WELDS TO BE TOUCHED UP WITH ZINC RICH PAINT. - GRATING SUPPORT TO BE CONTINUED ACROSS TOP OF EXISTING 27WWF-Rx73 CROSS-BEAMS WITH 127x240x7.5mm GALVANIZED STEEL PLATE WELDED TO TOP OF CROSS-BEAMS WITH TWO 6.3mm FILLET WELDS 64mm LONG ALONG EACH SIDE OF PLATE.



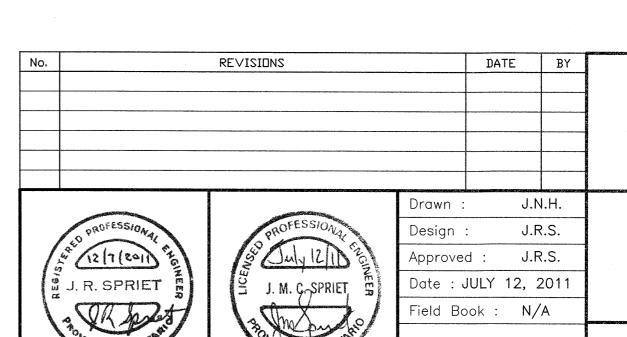
SCALE: 1cm=0.10m(1:10)



EXISTING CONDITIONS SECTION @ ABUTMENT SCALE: 1cm=0.10m(1:10)



NEW CONDITIONS SECTION @ ABUTMENT SCALE: 1cm=0.10m(1:10)



Job No. 205229

PIKE ROAD BRIDGE REHABILITATION TOWNSHIP OF ADELAIDE METCALFE

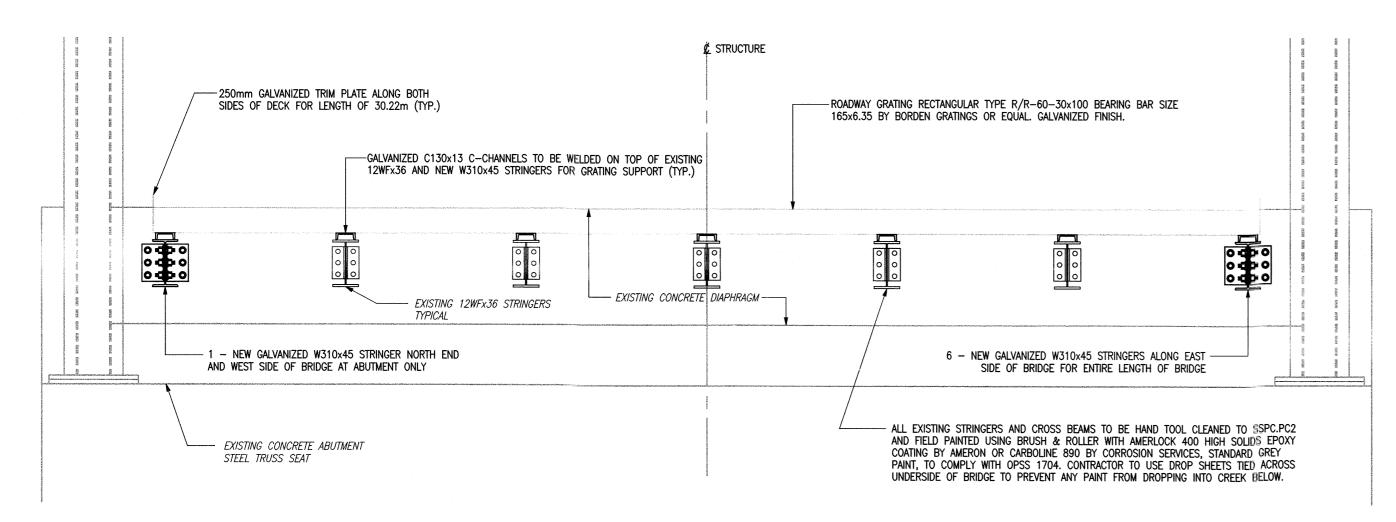
SPRIET ASSOCIATES LIMITED CONSULTING

155 YORK STREET --LONDON

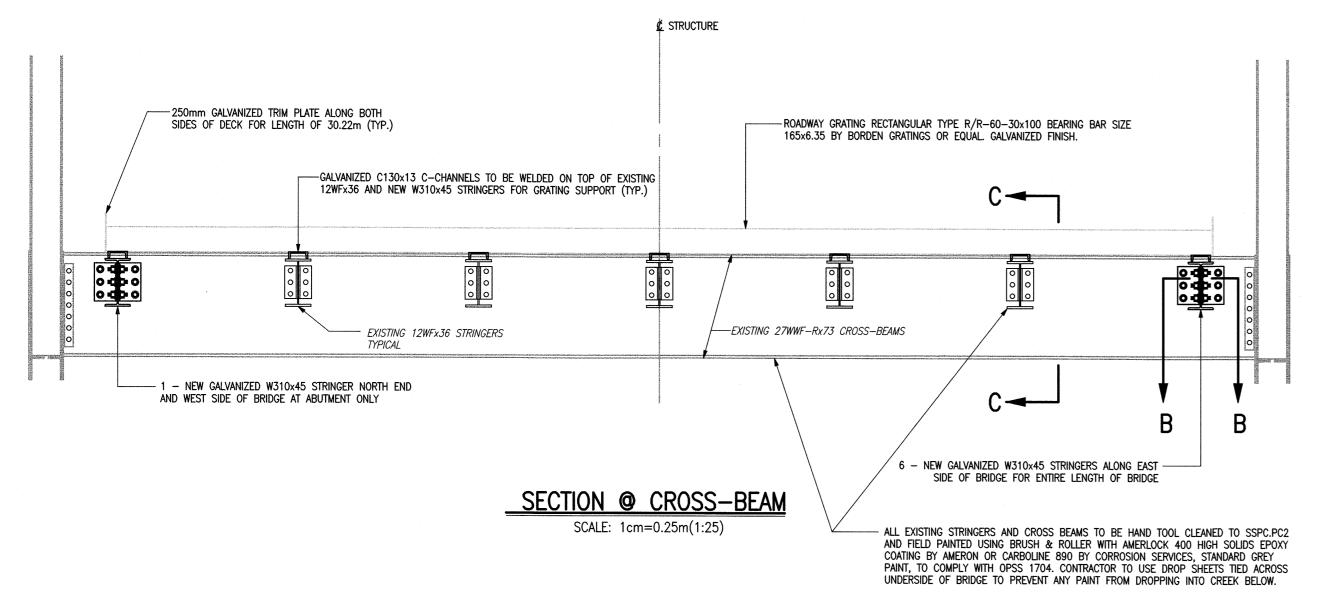
ENGINEERS

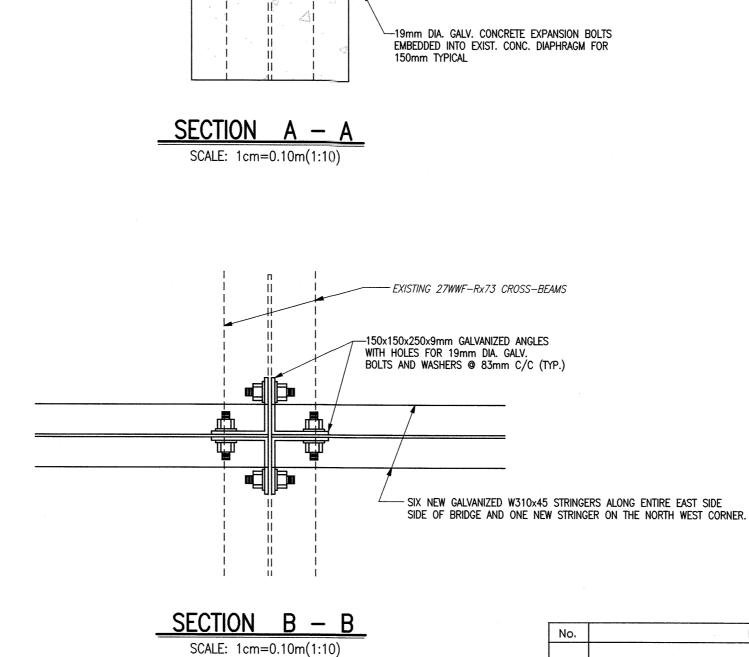
(519) 672-4100--N6A 1A8

rawing No. SECTIONS & DETAILS 2 of 2



SECTION @ ABUTMENT SCALE: 1cm=0.25m(1:25)





- EXISTING 27WWF-Rx73 CROSS-BEAMS

—150x150x250x9mm GALVANIZED ANGLES WITH HOLES FOR 19mm DIA. GALV.

BOLTS AND WASHERS @ 83mm C/C

