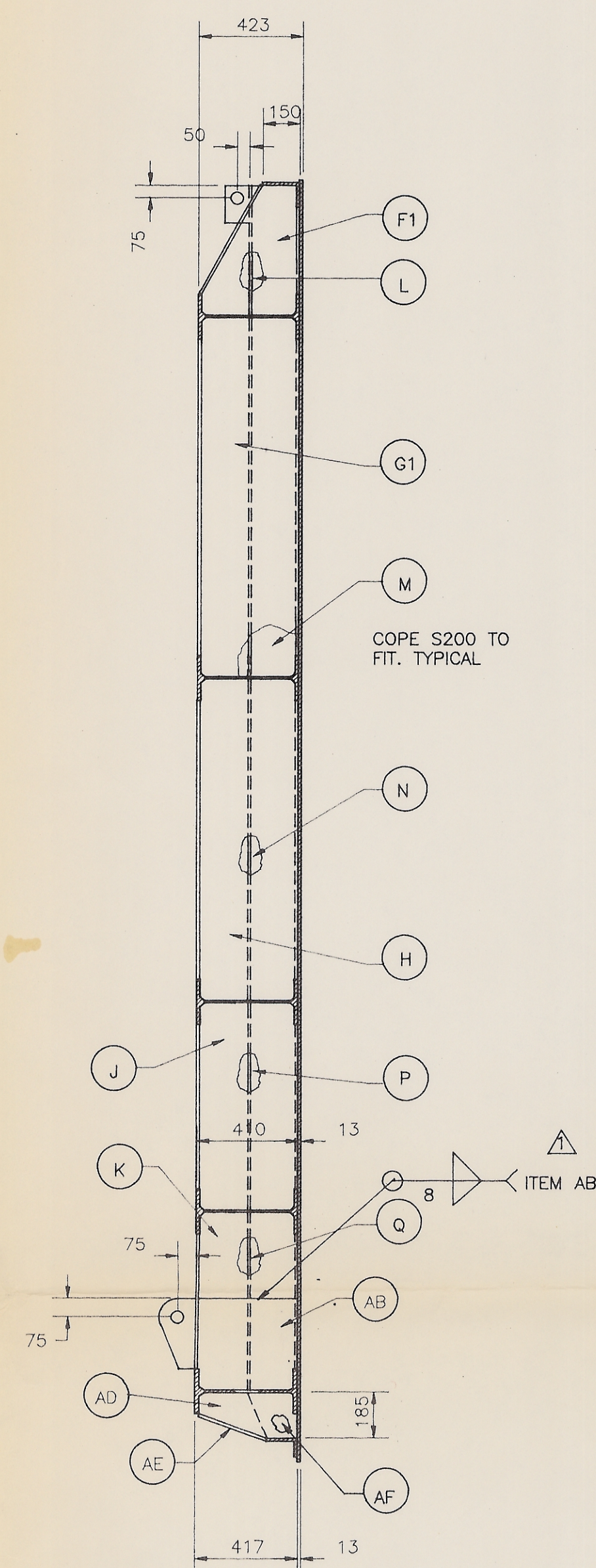
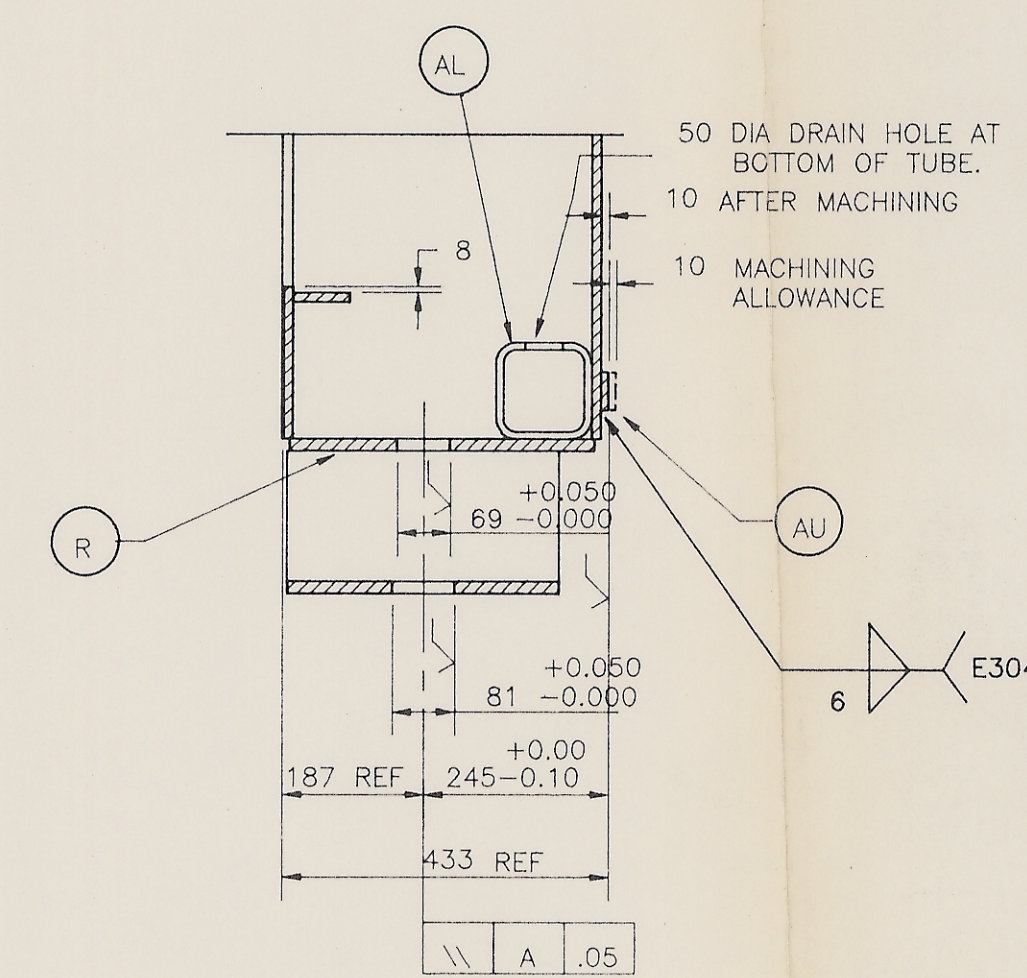


GATE ELEVATION
(LOOKING UPSTREAM)

END VIEW



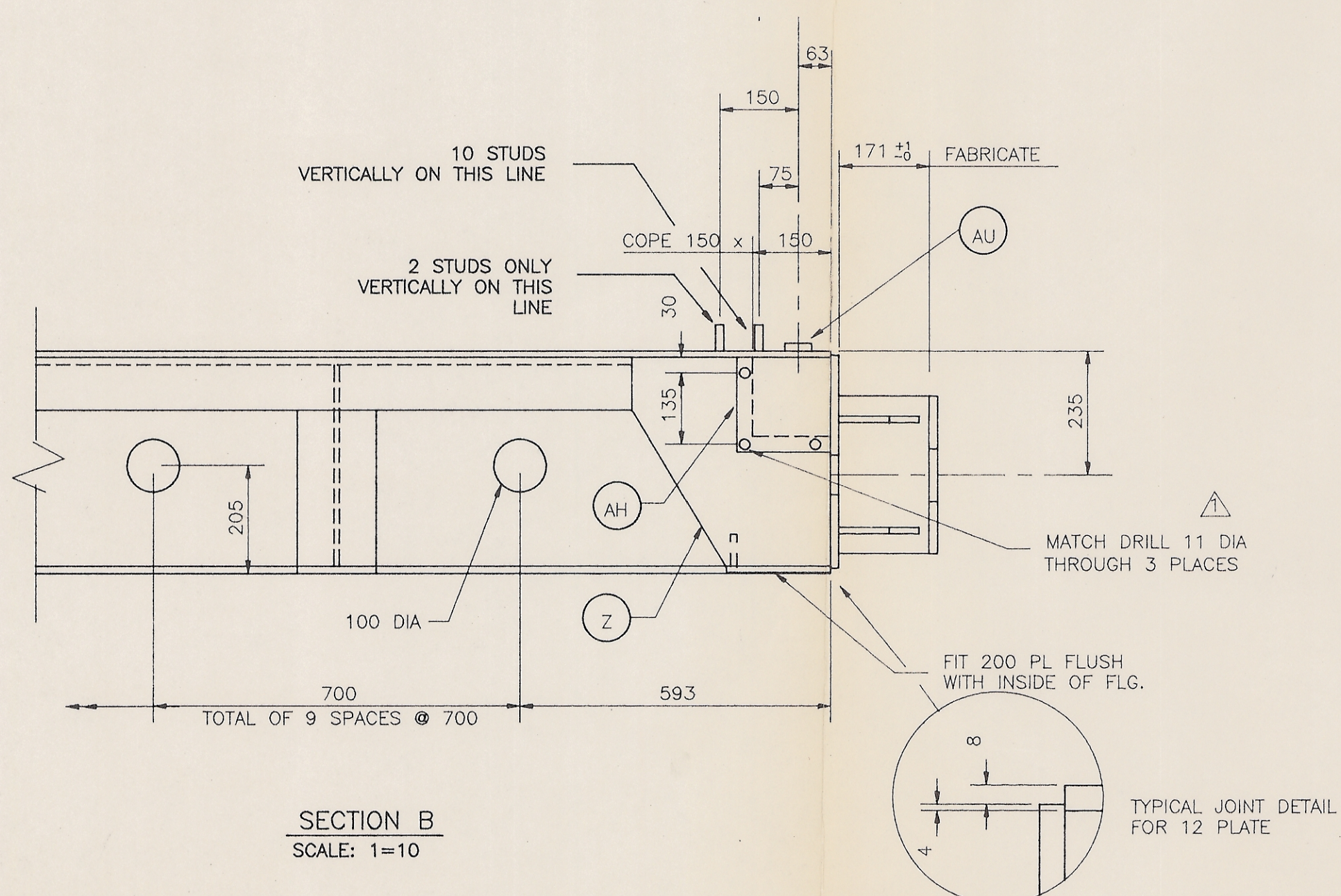
SECTION A-A



SECTION C
SCALE: 1=10

- NOTES:
1. PAINT ALL SURFACES (EXCEPT MACHINED) AS PER CUSTOMER SPECIFICATION 649459, SECTION 11100, CLAUSE 3.5.
 2. FOR MACHINED SURFACES INDICATED THE FINISH SHALL BE A ROUGHNESS GRADE OF N9 OR BETTER.
 3. ALL MACHINED SURFACES SHALL BE STRAIGHT TO WITHIN +/- 4mm PRIOR TO MACHINING.
 4. THE SEAL FACE MUST BE STRAIGHT TO WITHIN 0.05mm IN ANY 1.8M LENGTH. FULL LENGTH DEVIATION IS NOT TO EXCEED 0.1mm.
 5. PRESSURE TEST HEATER TUBE TO 70 kPa AIR PRESSURE TO VERIFY WATER TIGHTNESS.
 6. WELDS SHALL BE CONTINUOUS 6mm FILLETS ON BOTH SIDES OF JOINTS UNLESS OTHERWISE INDICATED.
 7. WELDING SHALL BE IN ACCORDANCE WITH CSA W59-1989.
 8. ALL RECTANGULAR CUTOUTS SHALL HAVE SM/OTH CORNER RADII & SIDES.
 9. THE GATE IS TO BE COMPLETELY ASSEMBLED AND WELDED IN ONE PIECE.
 10. FINISH BORE AXLE HOLES FOR THE WHEELS IN ONE MACHINE TOOL TABLE SETUP TO INSURE PERFECT PARALLELISM OF ALL EIGHT WHEELS.
 11. FROM THE SAME, OR A RECONSTRUCTED SETUP, MACHINE THE GATE LIP AND THE SEAL FACES.

SYM	DESCRIPTION	QTY	MAT'L
A	PL 2123 x 12 x 7494	SQ	1 44W
B	PL 3048 x 12 7494	SQ	1 44W
C	W410 x 67 x 7494	COPE, HOLES	4 44W
D	L 125 x 75 x 12 x 7494		1 44W
E	L 150 x 100 x 12 x 6734		1 44W
F	PL 395 x 10 x 520	SHAPE	3 44W
G	PL 395 x 10 x 1438	SHAPE	3 44W
H	PL 395 x 10 x 1288	SHAPE	3 44W
J	PL 395 x 10 x 828	SHAPE	3 44W
K	PL 398 x 10 x 717	SHAPE	1 44W
F1	FLAT 152 x 12 x 500	PREP	3 44W
G1	FLAT 152 x 12 x 1270	PREP	3 44W
H1	FLAT 152 x 12 x 1120	PREP	3 44W
J1	FLAT 152 x 12 x 660	PREP	3 44W
K1	FLAT 152 x 12 x 550	PREP	1 44W
K2	FLAT 152 x 12 x 550	SHAPE	2 44W
L	S200 x 34 x 520	SHAPE	2 44W
M	S200 x 34 x 1438	SHAPE	2 44W
N	S200 x 34 x 1288	SHAPE	2 44W
P	S200 x 34 x 828	SHAPE	2 44W
Q	S200 x 34 x 717	SHAPE	2 44W
R	PL 414 x 12 x 5130	SHAPE, HOLES	2 44W
S	FLAT 203 x 12 x 442	PREP	2 44W
T	FLAT 203 x 12 x 1270	PREP	2 44W
U	FLAT 203 x 12 x 1120	PREP	2 44W
V	FLAT 203 x 12 x 660	PREP	2 44W
X	FLAT 203 x 12 x 550	PREP	2 44W
S1	FLAT 75 x 12 x 438		2 44W
T1	FLAT 75 x 12 x 1270		2 44W
U1	FLAT 75 x 12 x 1120		2 44W
V1	FLAT 75 x 12 x 660		2 44W
X1	PL 75 x 12 x 550		2 44W
AA			
AB	PL 375 x 50 x 567	SHAPE	2 44W
AC	BAR 16DIA x 50	THREAD	24 304
AD	PL 178 x 10 x 398	SHAPE	3 44W
AE	PL 150 x 12 x 289		3 44W
AF	FLAT 203 x 12 x 178		2 44W
AG	PL 395 x 10 x 342	SHAPE	2 44W
Y	PL 100 x 12 x 289		2 44W
Z	PL 380 x 12 x 396	COPE, SHAPE	2 44W
AH	PL 180 x 12 x 180	DRILL HOLES	2 44W
AJ	PIPE 89 O.D. x 5.49 x 50		2 44W
AK	PL 112 x 12 x 112	CHAMFER 4 CORNERS	4 44W
AL	HSS 127 x 127 x 9.53 x 4630		2 50W
AM	FLAT 152 x 12 x 165	CHAMFER	14 44W
AN	FLAT 152 x 12 x 100	CHAMFER	2 44W
AP	PL 171 x 16 x 300		16 44W
AQ	PL 300 x 16 x 500		8 44W
AR	PL 152 x 50 x 200		2 44W
AS	FLAT 152 x 12 x 996		4 44W
AT	FLAT 152 x 12 x 416		4 44W
AU	S.S. PL 50 x 20 x 5160		2 304
AV	FLAT 152 x 12 x 150	CHAMFER	2 44W
AW	BOLTS 10 DIA x 40 C/W NUT & WASHER		6 A307
BA	W410 x 85 x 7494		1 44W
BB	PL 100 x 25 x 200		2 44W



SECTION B
SCALE: 1=10

MATTHEWS CONTRACTING INC.

REVIEWED - NO COMMENT ☐

REVIEWED - COMMENTS AS NOTED ☐

REVIEWED - REVISE AND RESUBMIT ☒

DATE REC'D: 9/2/03

This review is for conformance only with the general design intent, contract documents and overall dimensions and in no way alleviates the sub-contractor or supplier from confirming site conditions as necessary prior to construction.

DATE: 9/2/03

REVIEWED
as per
NOTICE and / or AMENDMENT

NOTICE
THE ABOVE DOES NOT RELEASE THE CONTRACTOR FROM RESPONSIBILITIES FOR CORRECTNESS OF DIMENSIONS, FIT OF PARTS AND COMPLIANCE WITH SPECIFICATIONS.

DATE: 9/2/03

Public Works Canada / Travaux publics Canada

LINITA WELDING LIMITED
GUELPH ONTARIO

CUSTOMER: Matthews Const/Public Works Can.

JOB: Reconstruction of the Portage Dam

TITLE: Gates

DRAWN BY: GCP CHECKED BY: DATE: 09/92

SCALE: 1:20 PROJECT NO.: 649459 DRAWING NO.: 5190 - G1

REV	DESCRIPTION	APP'D
1	SKIN PLATE, WELD SYMBOLS	20/10/92