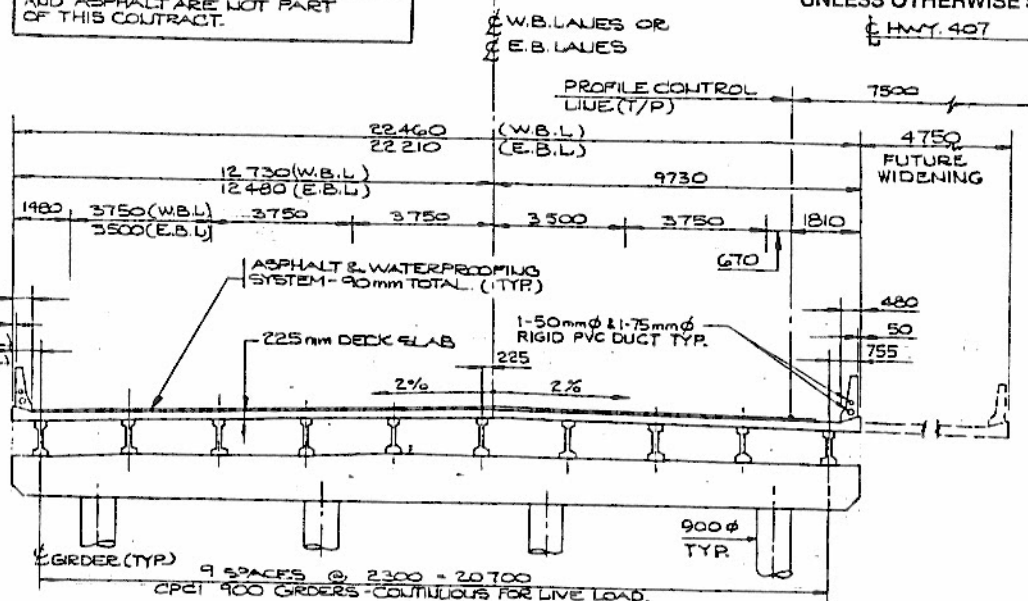


APPROACH SLABS, WATERPROOFING AND ASPHALT ARE NOT PART OF THIS CONTRACT.



W.P. #	T/P EL.	STATION
1	177.095	11+825.204
2	177.064	11+831.604
3	177.024	11+853.604
4	176.993	11+866.004
5	177.083	11+829.996
6	177.052	11+842.396
7	176.012	11+850.396
8	176.981	11+870.796

METRIC

DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE SHOWN

HWY. 407
CONT No
WP No 367-87-08 EBL
367-87-09 WBL

MIMICO CREEK BRIDGES
EBL AND WBL
GENERAL ARRANGEMENT



SHEET

COLE SHERMAN

GENERAL NOTES

1. Class of Concrete

Pre-cast Girders 40 MPa
Remainder 30 MPa
(unless otherwise specified)

2. Clear Cover to Reinforcing Steel

Footings 100 ± 25
Abutments and wingwalls
• Front Face 80 ± 20
• Back Face 70 ± 20
Piers 80 ± 20
Deck
• Top 70 ± 20
• Bottom 40 ± 10
Remainder
• Unless Otherwise Specified 70 ± 20

3. Reinforcing Steel

Reinforcing steel shall be grade 400 unless otherwise specified. Bar marks with suffix 'C' denote coated bars.

4. Construction Notes

If the actual bearing heights are different from the assumed bearing heights given with the bearing design data, the contractor shall adjust the bearing seat elevations and the reinforcing steel to suit the actual heights.

T/P denotes top of pavement.

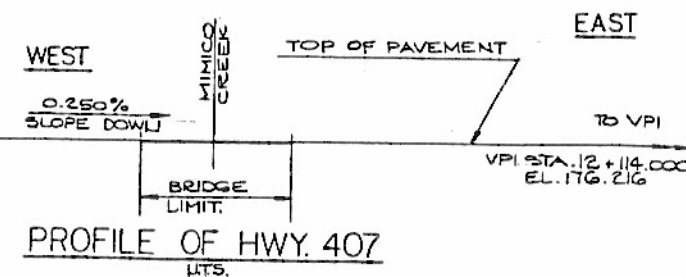
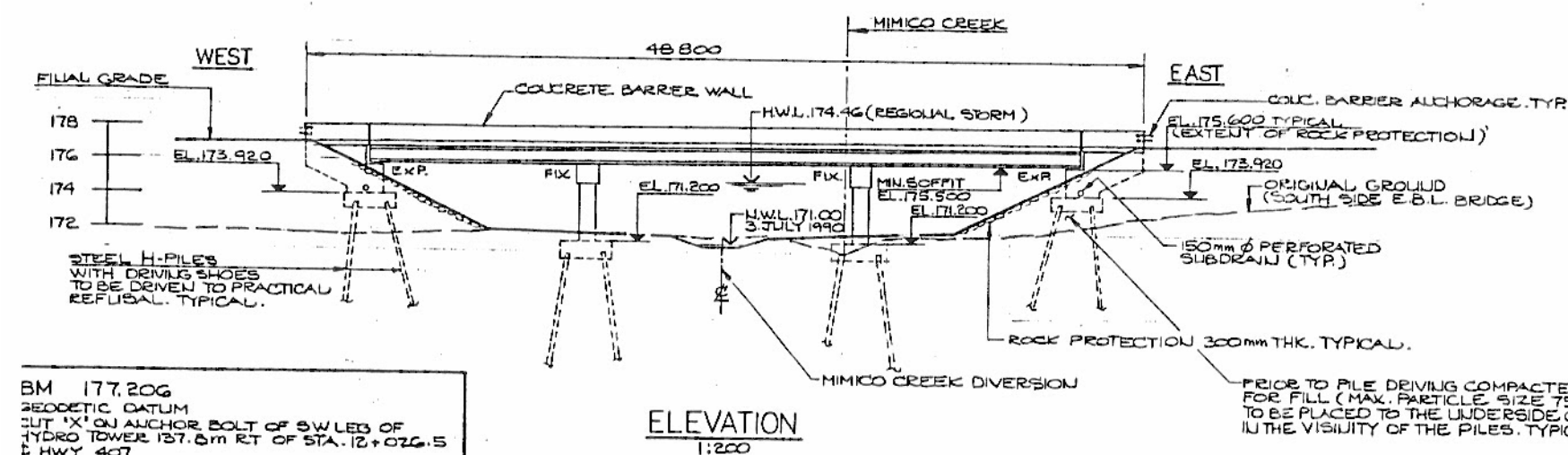
WP denotes working point

LIST OF DRAWINGS

- General Arrangement
- Borehole Locations and Soil Strata
- Footings - West Bound Lanes Bridge
- Footings - East Bound Lanes Bridge
- West Abutments
- East Abutments
- West Wingwalls
- East Wingwalls
- Piers
- Prestressed Girders
- Deck Layout and Details
- Screed Elevations
- 6000 mm Approach Slab
- Barrier Wall
- Joint Anchorage and Armouring
- As Constructed Elev. & Dim. - West Bound Lane Bridge
- As Constructed Elev. & Dim. - East Bound Lane Bridge
- Details
- File Driving - Steam and Diesel Hammers
- Electrical Embedded Work
- QUANTITIES STRUCTURE (EBL)
- QUANTITIES STRUCTURE (EBL)
- QUANTITIES STRUCTURE (WBL)
- QUANTITIES STRUCTURE (WBL)

STANDARD DRAWINGS

DD-3503 Minimum Granular Backfill Requirements



DRAWING NOT TO BE SCALED
100 mm ON ORIGINAL DRAWING

REVISIONS	DATE	BY	DESCRIPTION
1	DATE	BY	DESCRIPTION
2	DATE	BY	DESCRIPTION
3	DATE	BY	DESCRIPTION
4	DATE	BY	DESCRIPTION
5	DATE	BY	DESCRIPTION
6	DATE	BY	DESCRIPTION
7	DATE	BY	DESCRIPTION
8	DATE	BY	DESCRIPTION
9	DATE	BY	DESCRIPTION
10	DATE	BY	DESCRIPTION

BM 177.206
GEODETIC DATUM
SET BY ON ANCHOR BOLT OF SW LEG OF
HYDRO TOWER 137.8m RT OF STA. 12+026.5
E HWY 407

ELEVATION
1:200

PRIOR TO PILE DRIVING COMPACTED BOULDER
FOR FILL (MAX. PARTICLE SIZE 75mm)
TO BE PLACED TO THE UNDERSIDE OF THE FOOTING
IN THE VISIBILITY OF THE PILES. TYPICAL.

METRIC

HWY 407
CONT No
WP No 367-87-09 WBL
MIMICO CREEK BRIDGES
E.B.L. AND W.B.L.
WEST BOUND LANES BRIDGE
FOOTING LAYOUT



SHEET

COLE, SHERMAN

NOTES

- 1) ALL PILE SPACING TO BE MEASURED AT UNDERSIDE OF FOOTING.
- 2) ALL PILES ARE HP 310 x 79 STEEL "H" PILES
- 3) PILES MUST BE DRIVEN BY A HAMMER DELIVERING AN ENERGY NOT LESS THAN 50KJ PER BLOW.
- 4) PILES TO BE DRIVEN IN ACCORDANCE WITH STANDARD SS103-10 OR SS103-11 USING AN ULTIMATE CAPACITY OF 2460 kN PER PILE.
- 5) DWL DENOTES DOWEL
BOT DENOTES BOTTOM

PILE DESIGN DATA

CAPACITY AT SLS II 820
FACTORED CAPACITY AT ULS 1150

PILE DATA TABLE

LOCATION	FACE	NO. REQ'D	BATTER	LENGTH
W. Abut	Front	7	1:3	100 m
	Rear	7	1:10	95 m
W. Pier		14	1:10	152 m
		14	1:10	166 m
E. Abut	Front	7	1:3	111 m
	Rear	7	1:10	106 m

NOTE: Pile lengths shown in table above are theoretical lengths below cut-off elevation.

APPLICABLE STANDARD DETAILS

DD 3301 SPLICE AND DRIVING SHOES DETAILS FOR "H" PILES.

REVISIONS	DATE	BY	DESCRIPTION
DESIGN	CSL	CHKGLR	CODE CHBDC-83
DRAWN	JB	CHK L.M.	SITE 24-G5B
			STRUCT
			SCHEME
			OWG. 3

DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE SHOWN

6-A15004 @ 300 DWLS.

10-A20012 @ 290 TOP

WP #4
N 4843456.653
E 291370.328

10-A20011 @ 290 TOP
2x10-A20001 BOT. PLACE AS SHOWN.

76-A15004 @ 300 DWLS.

6-A15004 @ 300 DWLS.

PLAN

1:75

HOT 11+848 HWY 407 -
HOT 10+000 MIMICO CREEK
N 4843433.290
E 291366.318

TYP. REINFORCING

TYP. DIMENSIONS (EXCEPT AS NOTED)

A25009C DWLS.

A25009C DWLS.

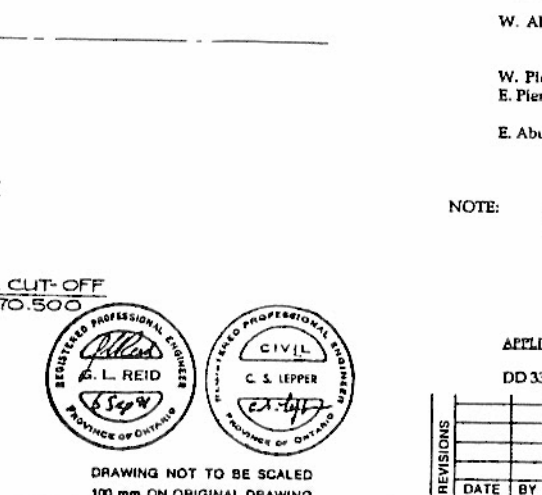
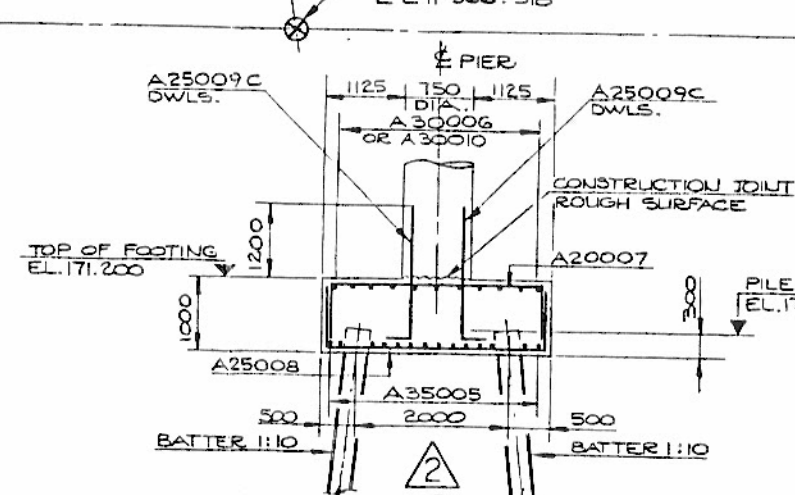
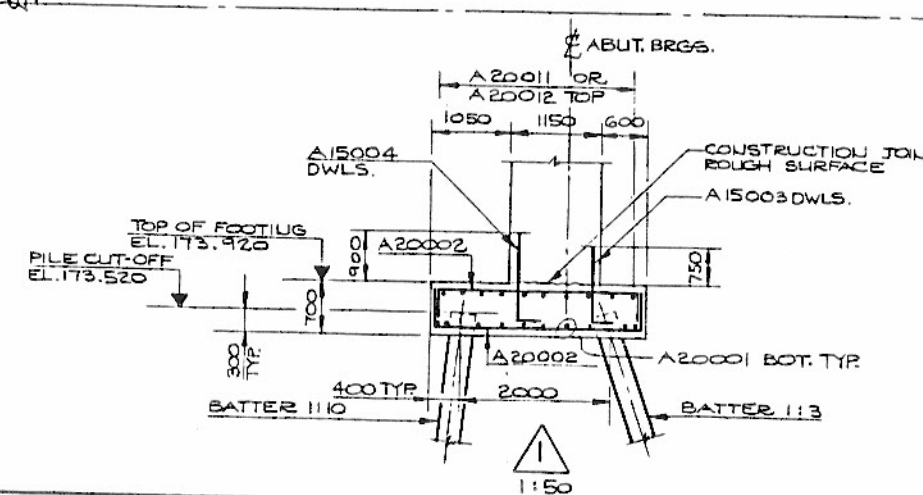
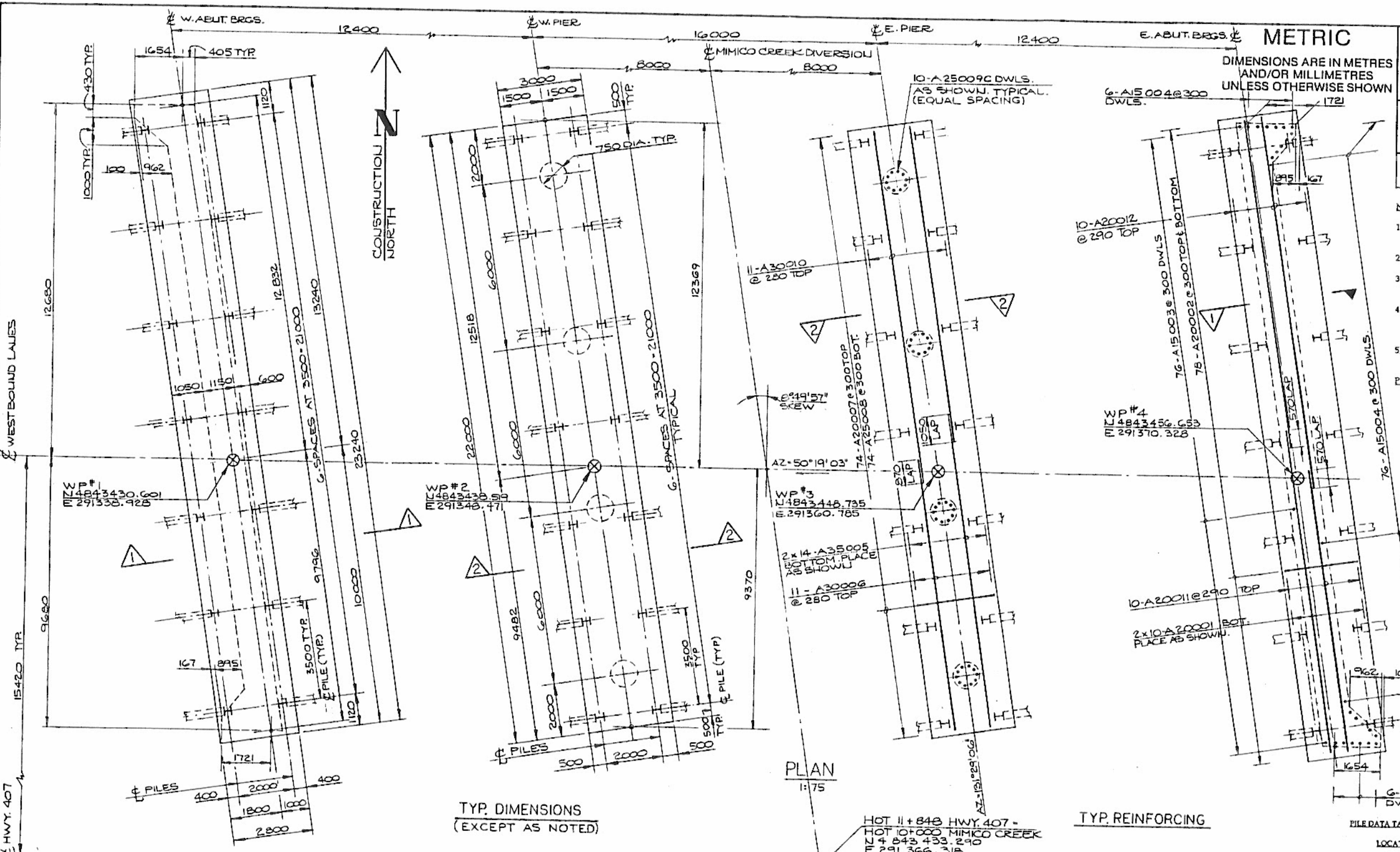
TOP OF FOOTING EL. 171.200

PILE CUT-OFF EL. 170.500

BATTER 1:10

BATTER 1:10

DRAWING NOT TO BE SCALED
100 mm ON ORIGINAL DRAWING




METRIC
DIMENSIONS ARE IN METRES
AND/OR MILLIMETRES
UNLESS OTHERWISE SHOWN

CONT No

WP No 367-87-08 EBL

MIMICO CREEK BRIDGES
E.B.L. AND W.B.L.
EAST BOUND LANES BRIDGE
FOOTING LAYOUT


**COLE,
SHERMAN**

NOTES

- 1) ALL PILE SPACING TO BE MEASURED AT UNDERSIDE OF FOOTING.
- 2) ALL PILES ARE HP 310 x 79 STEEL 11' PILES
- 3) PILES MUST BE DRIVEN BY A HAMMER DELIVERING AN ENERGY NOT LESS THAN 50KJ PER BLOW.
- 4) PILES TO BE DRIVEN IN ACCORDANCE WITH STANDARD S5103-10 OR S5103-11 USING AN ULTIMATE CAPACITY OF 2460 kN PER PILE.
- 5) DWL DENOTES DOWEL
BOT DENOTES BOTTOM

FILE DESIGN DATA

CAPACITY AT SLS II	820
FACTORED CAPACITY AT ULS	1150

FILE DATA TABLE

<u>LOCATION</u>	<u>FACE</u>	<u>NO. RECD</u>	<u>RAITER</u>	<u>LENGTH</u>
W. Abut	Front	7	1:3	100 m
	Rear	7	1:10	95 m
W. Pier		14	1:10	152 m
E. Pier		14	1:10	173 m
E. Abut	Front	7	1:3	115 m
	Rear	7	1:10	109 m

NOTE: Pile lengths shown in table above are theoretical lengths below cut-off elevation.

APPLICABLE STANDARD DETAILS

DD 3301 SPICE AND DRIVING SHOES DETAILS FOR "H" PILES.

DATE	BY	DESCRIPTION
DESIGNCSL	CHKGLR	CODECHDC-83 LOAD GLASSA DATE JULY 91
DRAWN LD	CHK J.B.	SITE 24-65B STRUCT SCHEME DWG 4