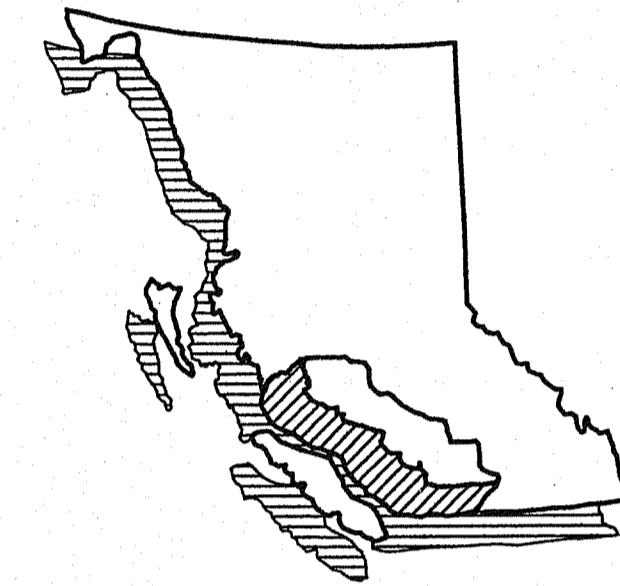


# City of Abbotsford



MINISTRY OF TRANSPORTATION  
SOUTH COAST REGION

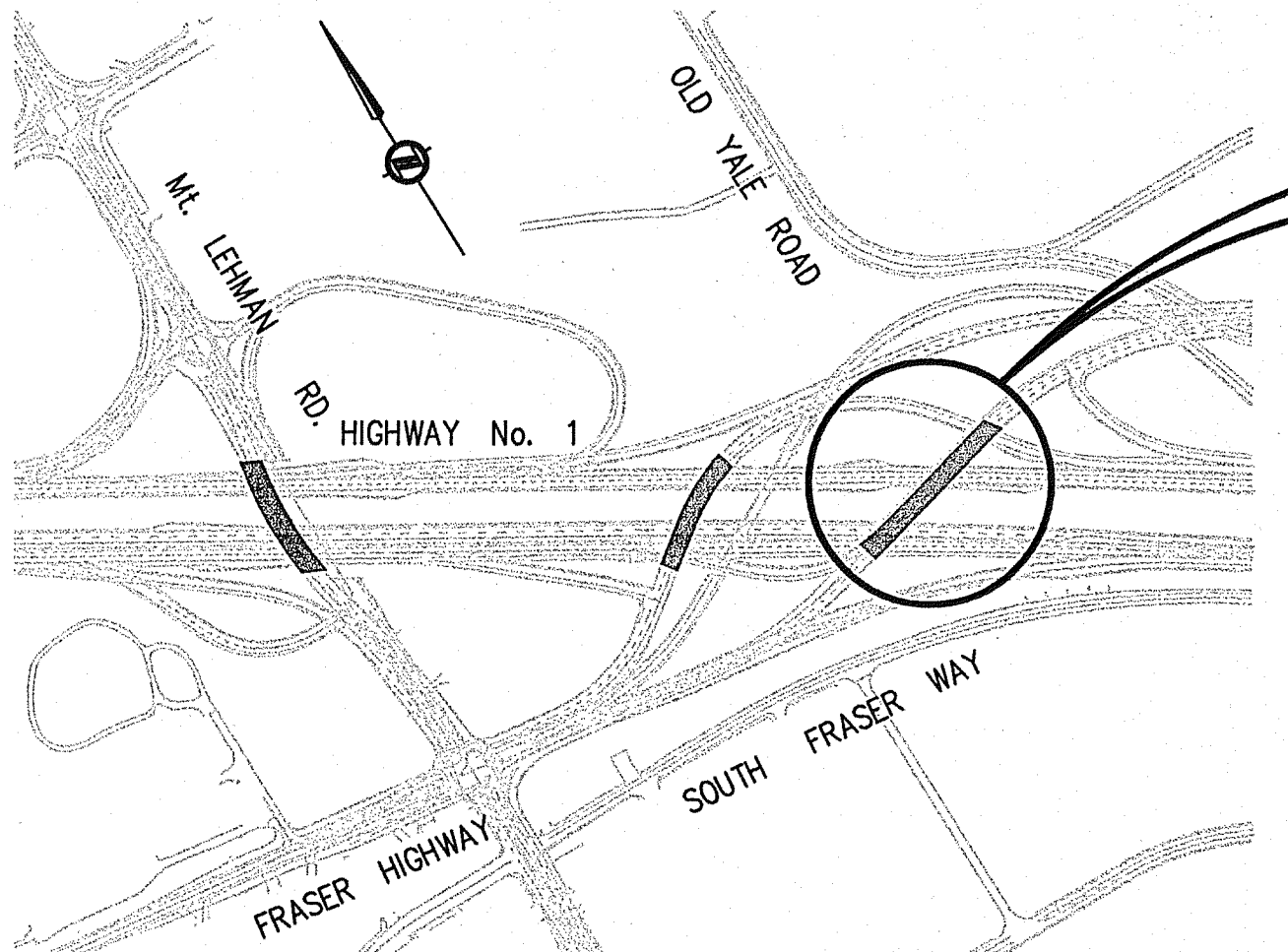
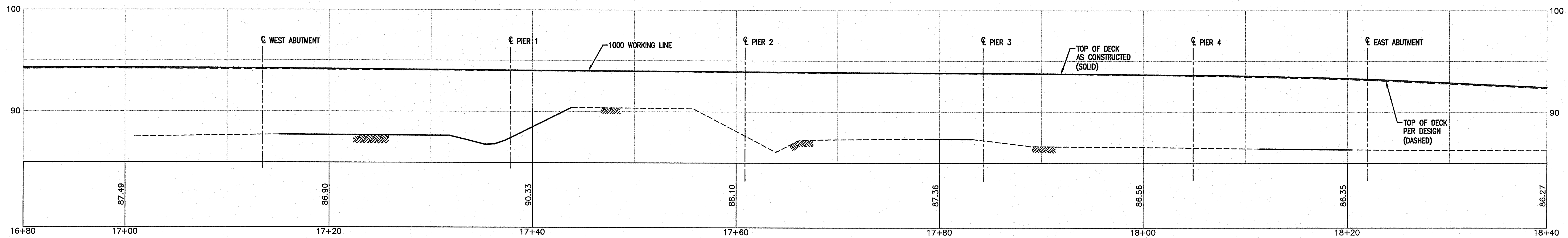
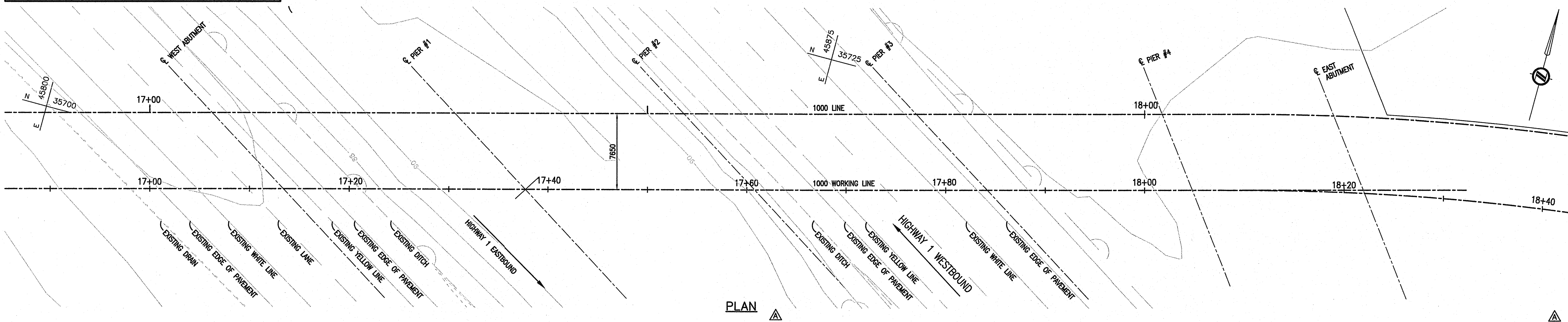


**PROJECT NO.**

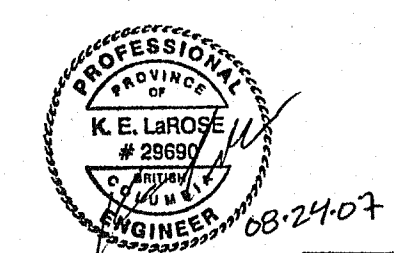
**FRASER HIGHWAY EAST UNDERPASS  
BRIDGE No. 1554E**

DRAWING No.	TITLE
1554E-200.....	SITE PLAN
1554E-201.....	GENERAL ARRANGEMENT
1554E-202.....	PIER OUTLINE 1,2&3
1554E-203.....	PIER REINFORCING 1,2&3
1554E-204.....	PIER #4
1554E-205.....	MSE WALLS
1554E-206.....	WEST ABUTMENT
1554E-207.....	EAST ABUTMENT
1554E-208.....	PRESTRESSED CONCRETE BOX STRINGERS SHEET 1 OF 2
1554E-209.....	PRESTRESSED CONCRETE BOX STRINGERS SHEET 2 OF 2
1554E-210.....	DECK SHEET 1 OF 2
1554E-211.....	DECK SHEET 2 OF 2
1554E-212.....	MISCELLANEOUS DETAILS

DRAWING No.	REV.	TITLE
2784-1	0	STANDARD BRIDGE PARAPET
2784-2	H	STANDARD BRIDGE PARAPET TRANSITION
2785-2		STANDARD BRIDGE PARAPET STEEL RAILING (1995)
15-SF323		PRECAST CONCRETE PIER BARRIER CPB



**PROJECT LOCATION**  
FRASER HIGHWAY EAST UNDERPASS



**LEGEND**  
 ○<sup>TH</sup> TESTHOLE  
 SEE MOT TESTHOLE LOGS (REF: FACTUAL GEOTECHNICAL REPORT, SET. 5, 2000, APPENDIX C)

**NOTES**  
 1. FOR NOTES SEE DRAWING 1554E-201  
 2. SURVEY BY: MINISTRY OF TRANSPORTATION  
 3. DATUM: GEODETIC. ALL STATIONS AND ELEVATIONS IN METRES.

Rev	Date	Description	Initial	SCALE	DESIGNED: AAW DATE: JULY 2004	CHECKED: RP DATE: JULY 2004	DRAWN: KDW DATE: JULY 2004
J				0 1:200 10			
I							
H							
G							
F							
E							
D							
C							
B	AUG 15/07	AS CONSTRUCTED	LLP	MAY 19/05	ISSUED FOR CONSTRUCTION		KDW
A	MAY 19/05	MINOR CHANGES	KDW	MAR 16/05	ISSUED FOR TENDER		KDW
REVISIONS				Date	ISSUE RECORD	Initial	

**City of Abbotsford**

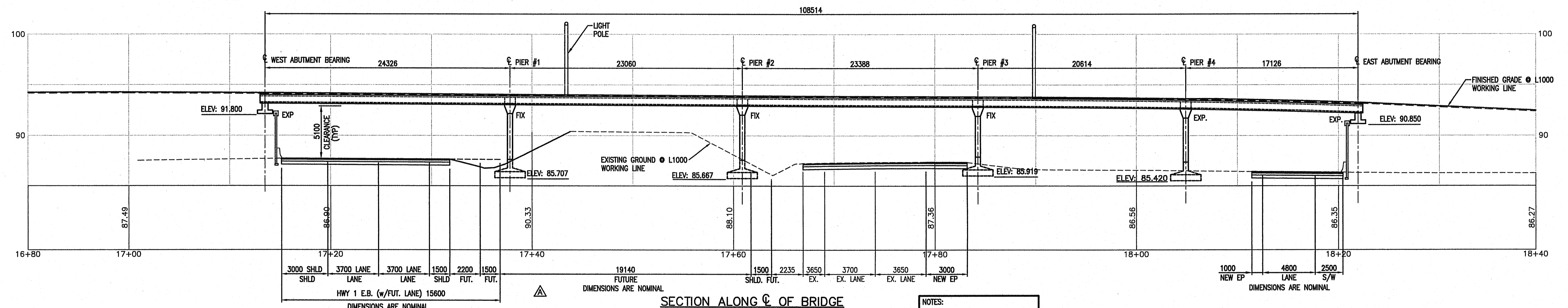
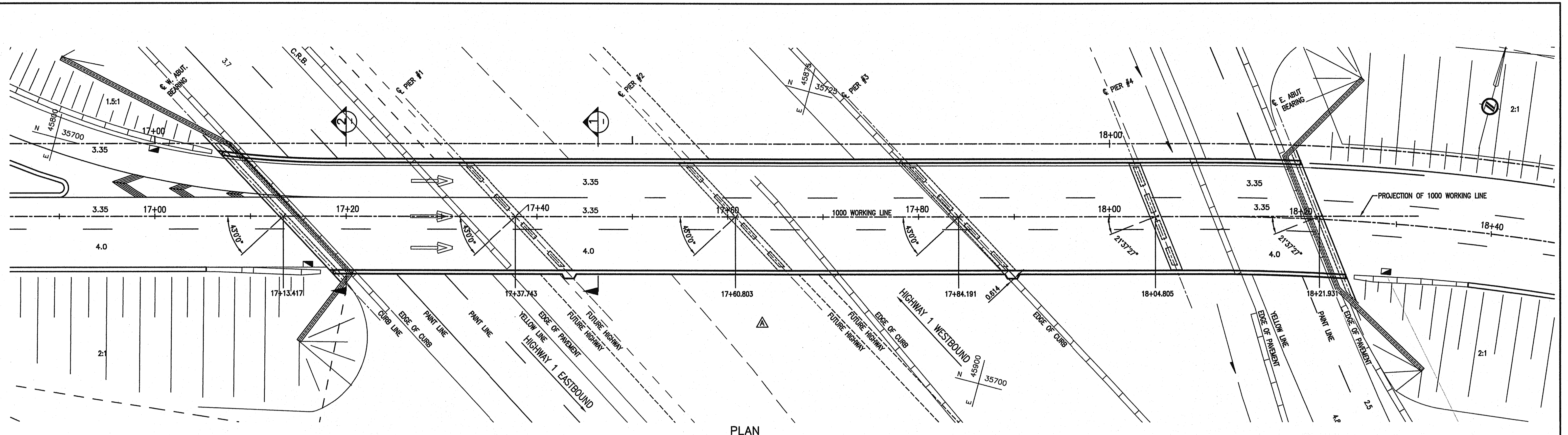
MINISTRY OF TRANSPORTATION  
SOUTH COAST REGION

**FRASER HIGHWAY EAST UNDERPASS**  
SITE PLAN

601837

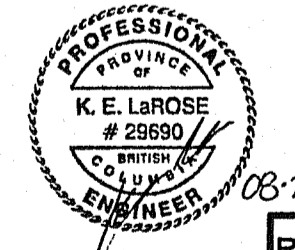
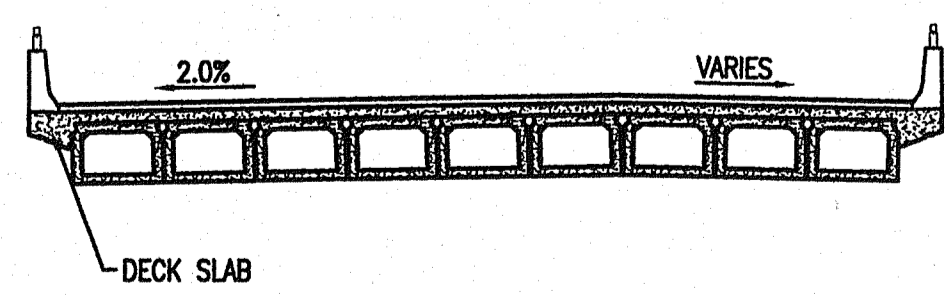
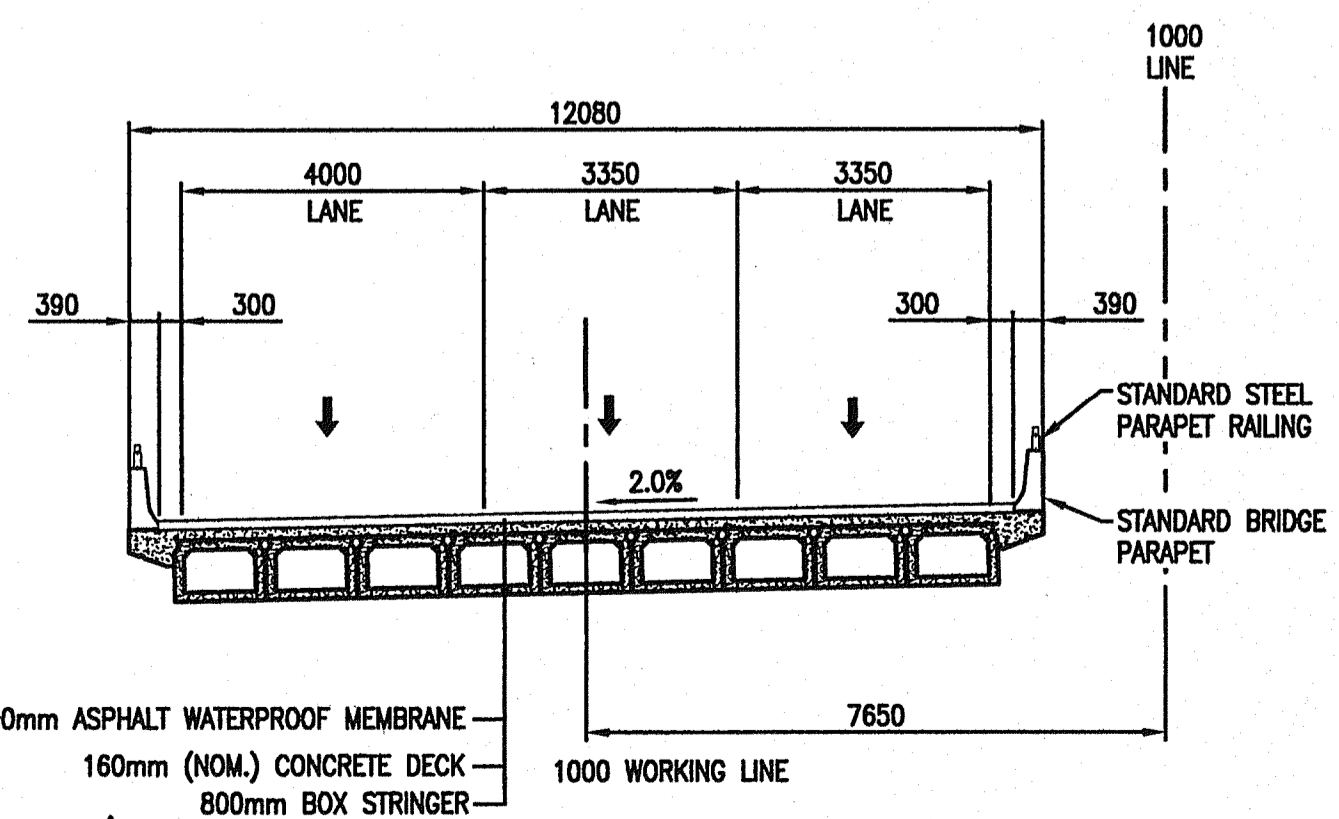
FILE No. 2111-02072-0	REGION 1	DRAWING No. 1554E-200
--------------------------	-------------	--------------------------

**KEY PLAN**  
N.T.S.



- NOTES:**
- DESIGN SPECS - CAN.CSA S6-00
  - DESIGN LOAD - CL625  
EARTHQUAKE A = 0.20  
V = 0.20  
TEMP. RANGE 48°C  
RAINFALL 10mm IN 15MIN.

INFORMATION SHOWN ON THESE DRAWINGS REGARDING EXISTING UTILITIES IS COMPILED FROM SOME RECORD DRAWINGS AND SOME SURVEYS, AND MAY NOT BE COMPLETE OR FULLY ACCURATE.



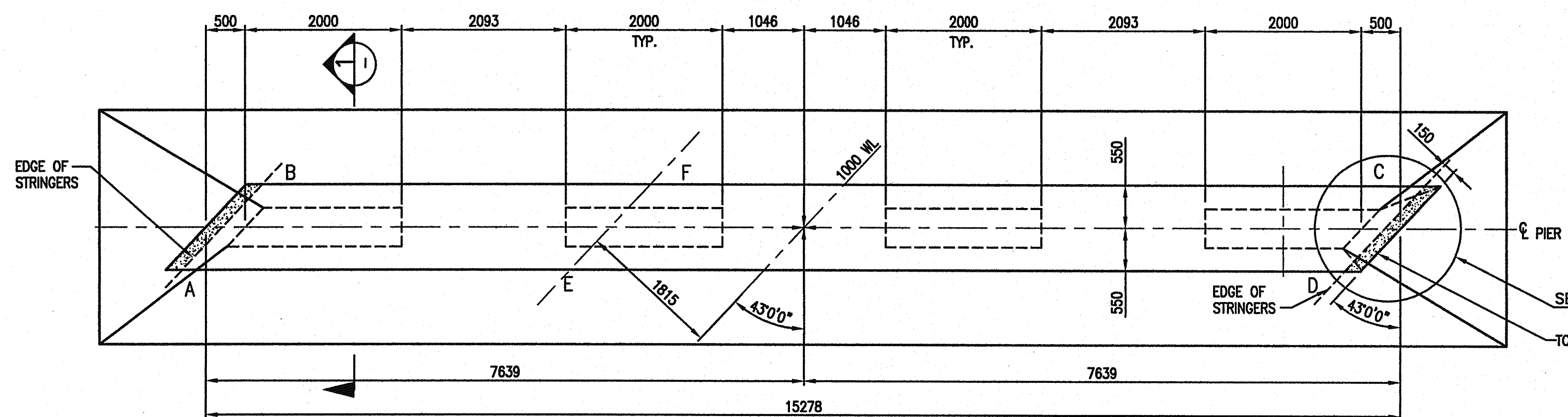
Rev	Date	Description	Initial	SCALE	DESIGNED	CHECKED	DRAWN
J				0 1:200 10	AW	RP	KDW
I							
H							
G							
F							
E							
D							
C							
B	AUG 15/07	AS CONSTRUCTED	LLP	MAY 19/05	ISSUED FOR CONSTRUCTION		KDW
A	MAY 19/05	MINOR CHANGES	KDW	MAR 16/05	ISSUED FOR TENDER		KDW
REVISIONS				Date	ISSUE RECORD	Initial	

**City of Abbotsford**

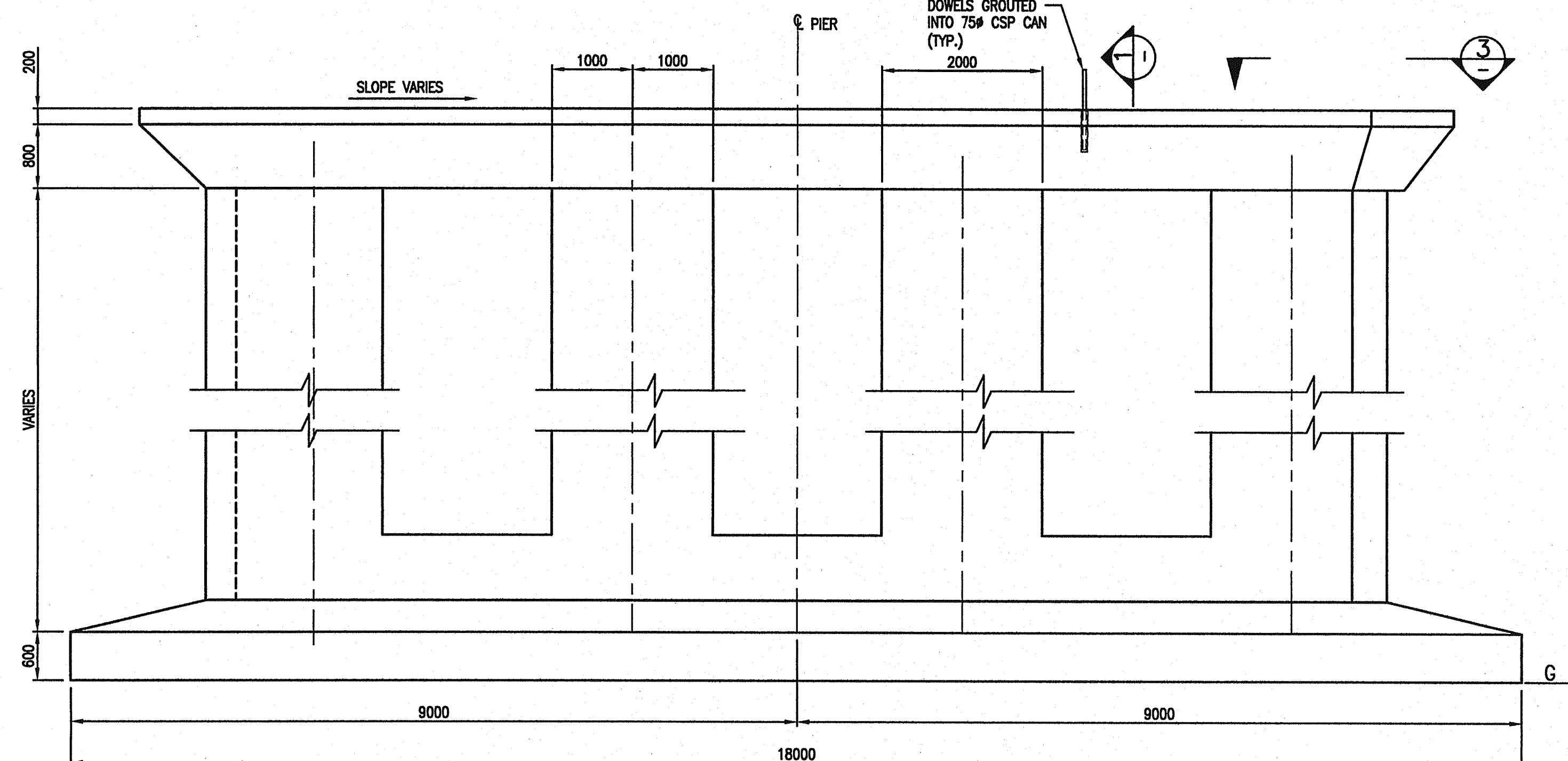
MINISTRY OF TRANSPORTATION  
SOUTH COAST REGION

**FRASER HIGHWAY EAST UNDERPASS**  
GENERAL ARRANGEMENT 601838

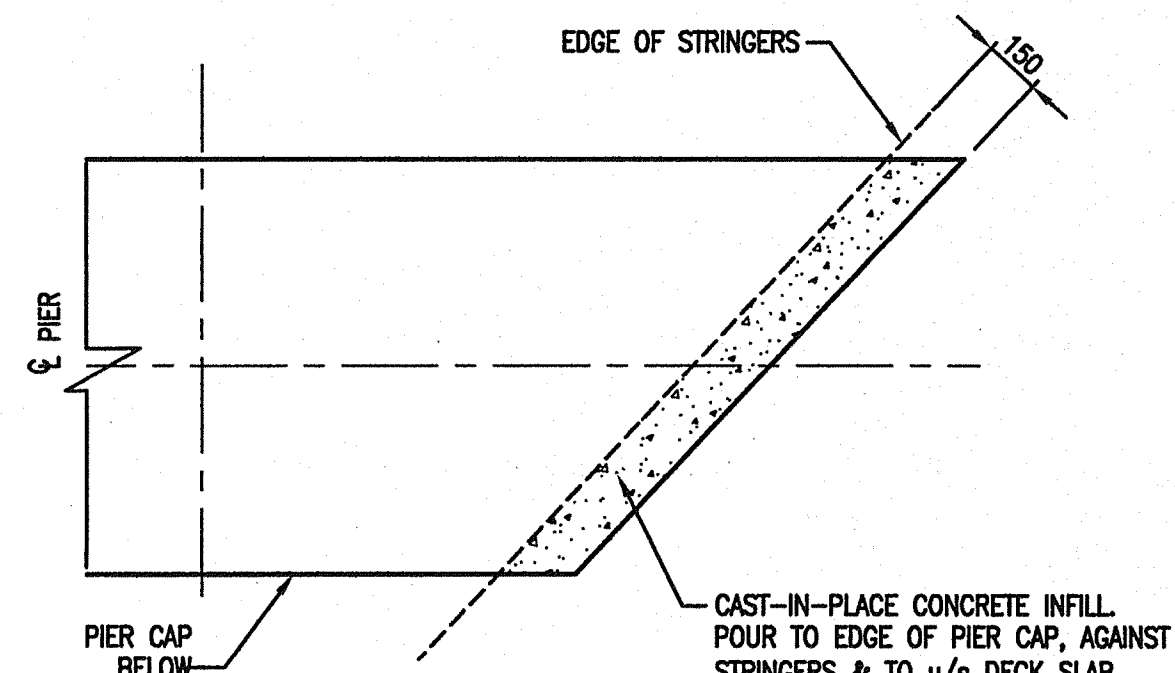
FILE No. 2111-02072-0  
REGION 1  
DRAWING No. 1554E-201  
McElhanney



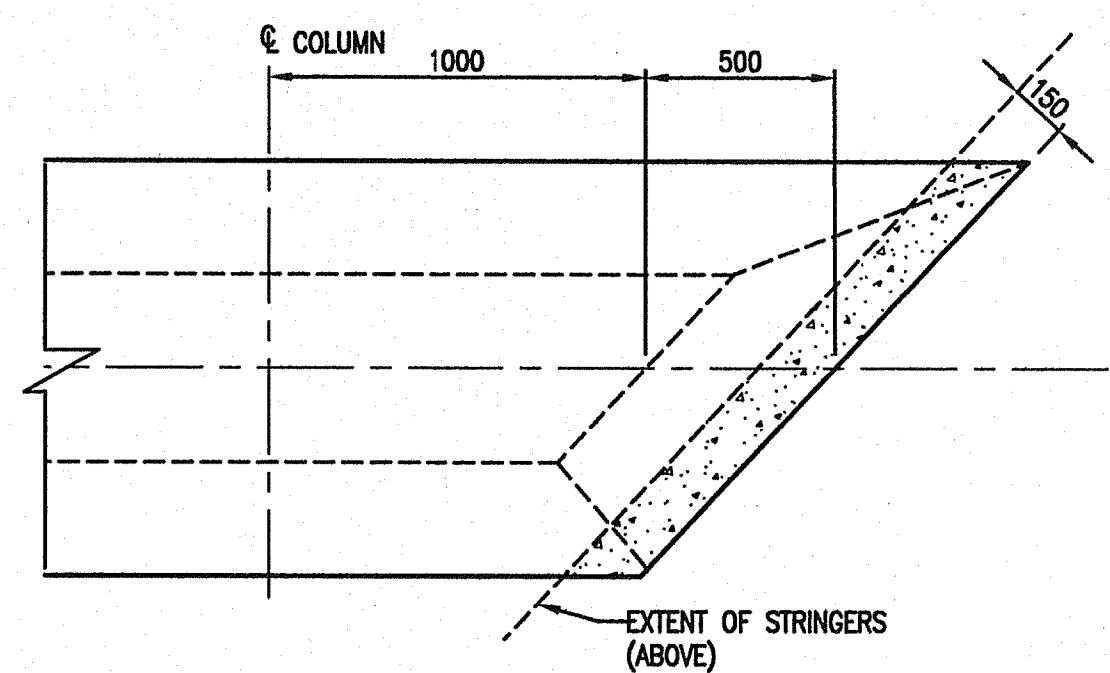
PIER 1, 2 & 3 PLAN



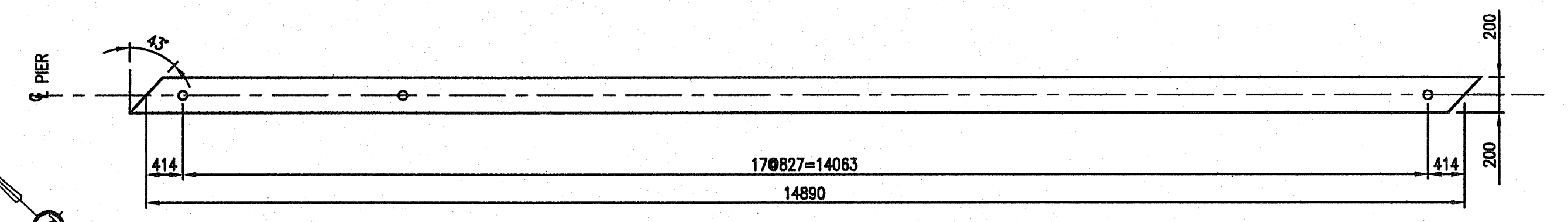
PIER ELEVATION  
SCALE 1:50



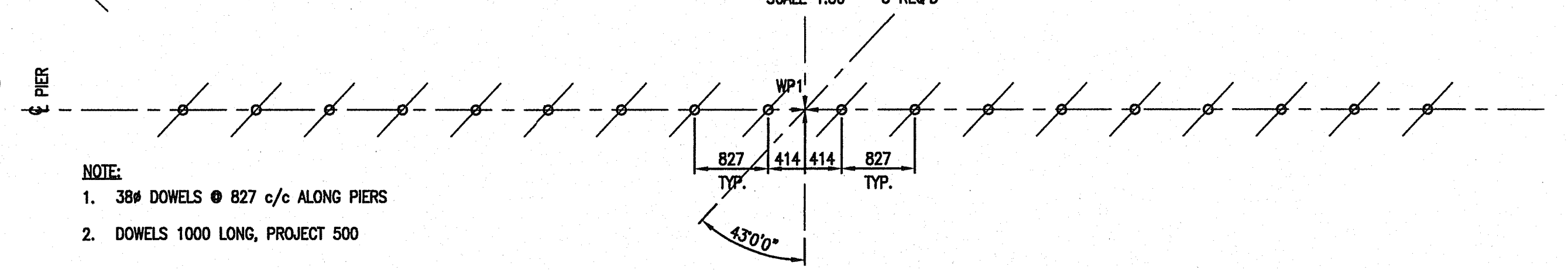
SECTION 3  
SCALE 1:20



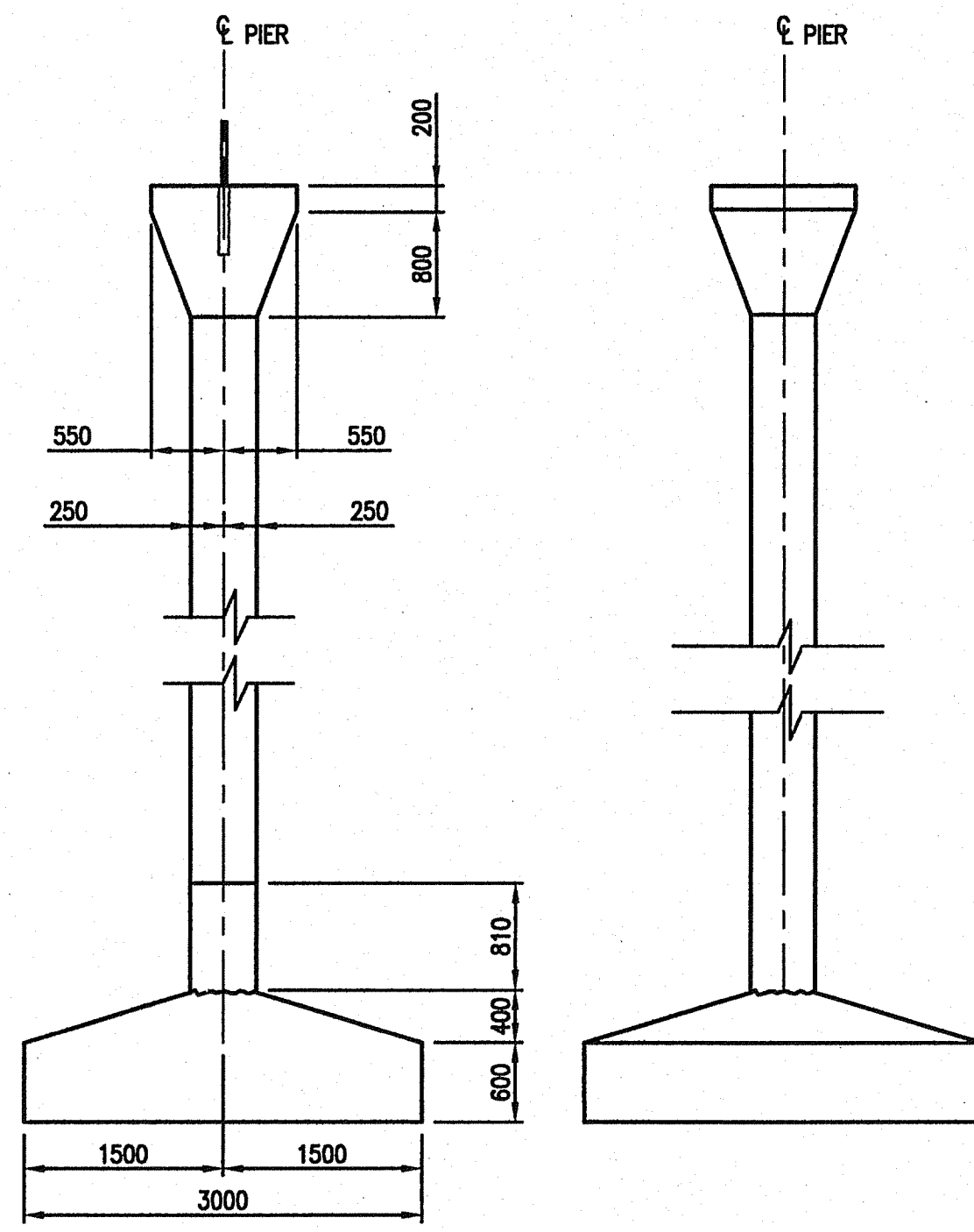
DETAIL A  
SCALE 1:20



ELASTOMERIC BEARING PADS - 400x20 THICK 50# HOLES - 50 HARDNESS  
SCALE 1:50



PIER TOP DOWELS  
SCALE 1:50



SECTION 1  
SCALE 1:50

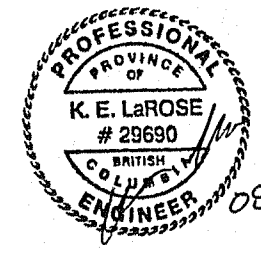
SECTION 2  
SCALE 1:50

**SUBSTRUCTURE NOTES:**

- ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 30 MPa AT 28 DAYS EXCEPT AS NOTED.
- ALL EXPOSED EDGES OF CONCRETE CHAMFERED 20mm UNLESS NOTED OTHERWISE.
- WORK SLAB IF REQUIRED SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 20 MPa AT 28 DAYS AND SHALL BE 50 mm THICK.
- ALL REINFORCING STEEL SHALL CONFORM TO CAN/CSA G30.18-M GRADE 400R. MAXIMUM YIELD STRENGTH 525 MPa.
- CLEAR COVER TO REINFORCING STEEL = 70mm, AGAINST SOIL = 100mm, ME = EPOXY COATED
- WELDING OF REINFORCEMENT NOT PERMITTED.
- LAPS OF ME BARS, 50% STAGGERED,  
10ME = 450  
15ME = 650  
20ME = 750  
25ME = 1170  
30ME = 1640
- ELEVATIONS SHOWN ARE FINAL DESIRED. ABUTMENT AND PIERS SHOULD BE BUILT HIGH BY 100mm & 50mm RESP.
- DOWELS A-307 GALVANIZED.

PIER GEOMETRY

PIER	A	B	C	D	E	F	G
1	92.963	92.962	92.730	92.738	92.917	92.909	85.707
2	92.891	92.883	92.615	92.623	-	-	85.667
3	92.774	92.766	92.498	92.506	-	-	85.919



08/24/07

Rev	Date	Description	Initial	SCALE	DESIGNED	CHECKED	DRAWN
J				0 1:200 10	ANW	SL	KDW
I							
H							
G							
F							
E							
D							
C							
B	AUG 15/07	AS CONSTRUCTED	LLP	MAY 19/05	ISSUED FOR CONSTRUCTION		KDW
A	MAY 19/05	MINOR CHANGES	KDW	MAR 16/05	ISSUED FOR TENDER		KDW
REVISIONS				Date	ISSUE RECORD	Initial	

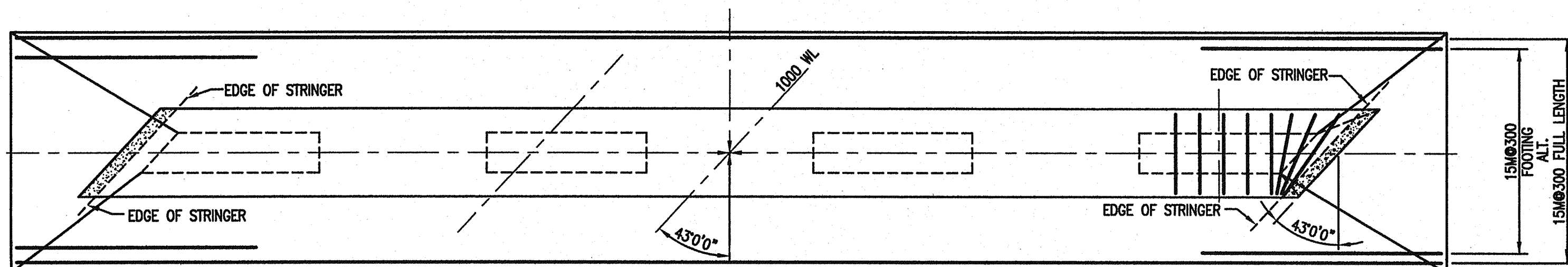
City of Abbotsford

MINISTRY OF TRANSPORTATION  
SOUTH COAST REGION

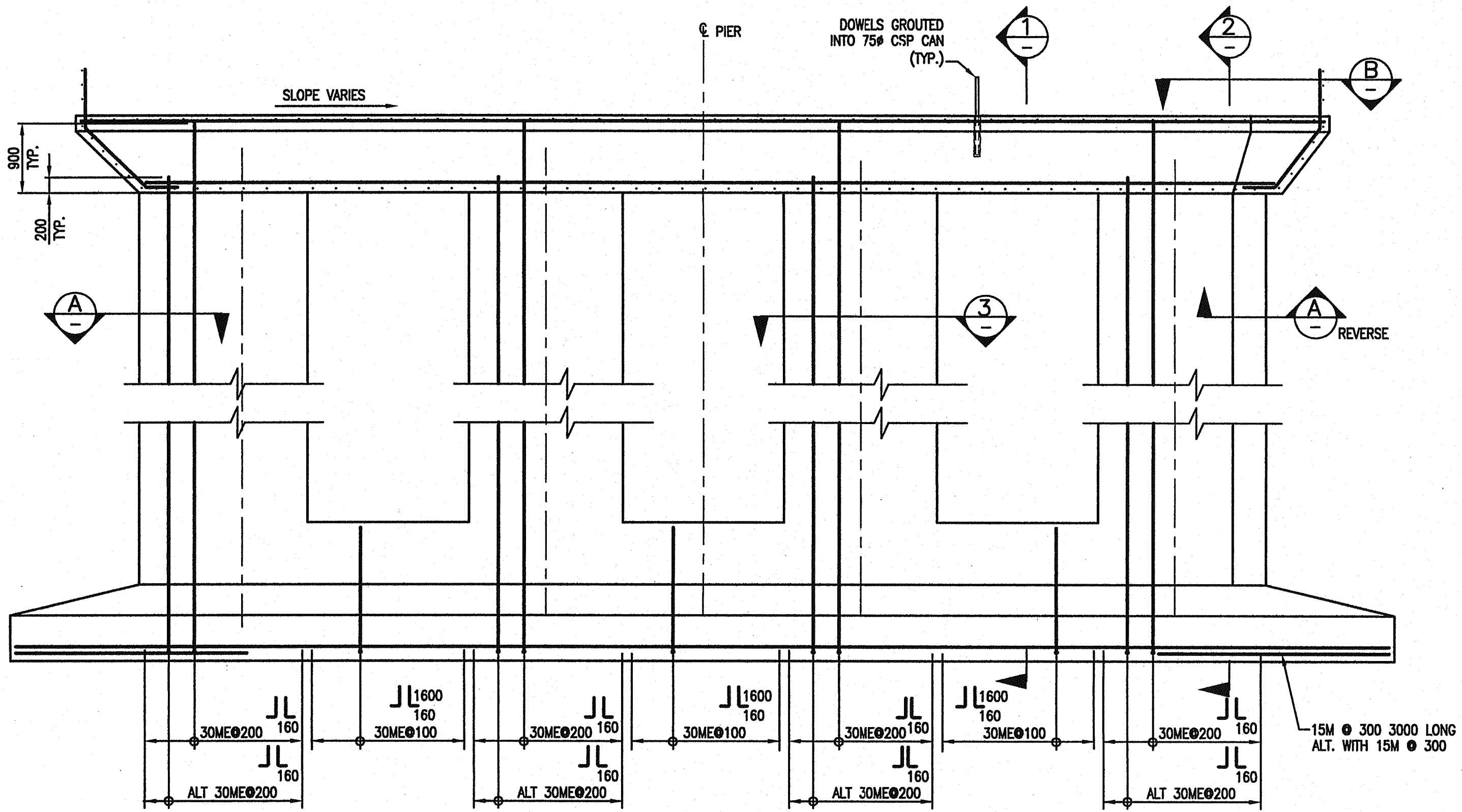
FRASER HIGHWAY EAST UNDERPASS  
PIER OUTLINE  
#1, 2 & 3 601839

FILE No. 2111-02072-0  
McEhanney  
REGION 1  
DRAWING No. 1554E-202  
CANCEL PRINTS BEING EXAMINER LETTER

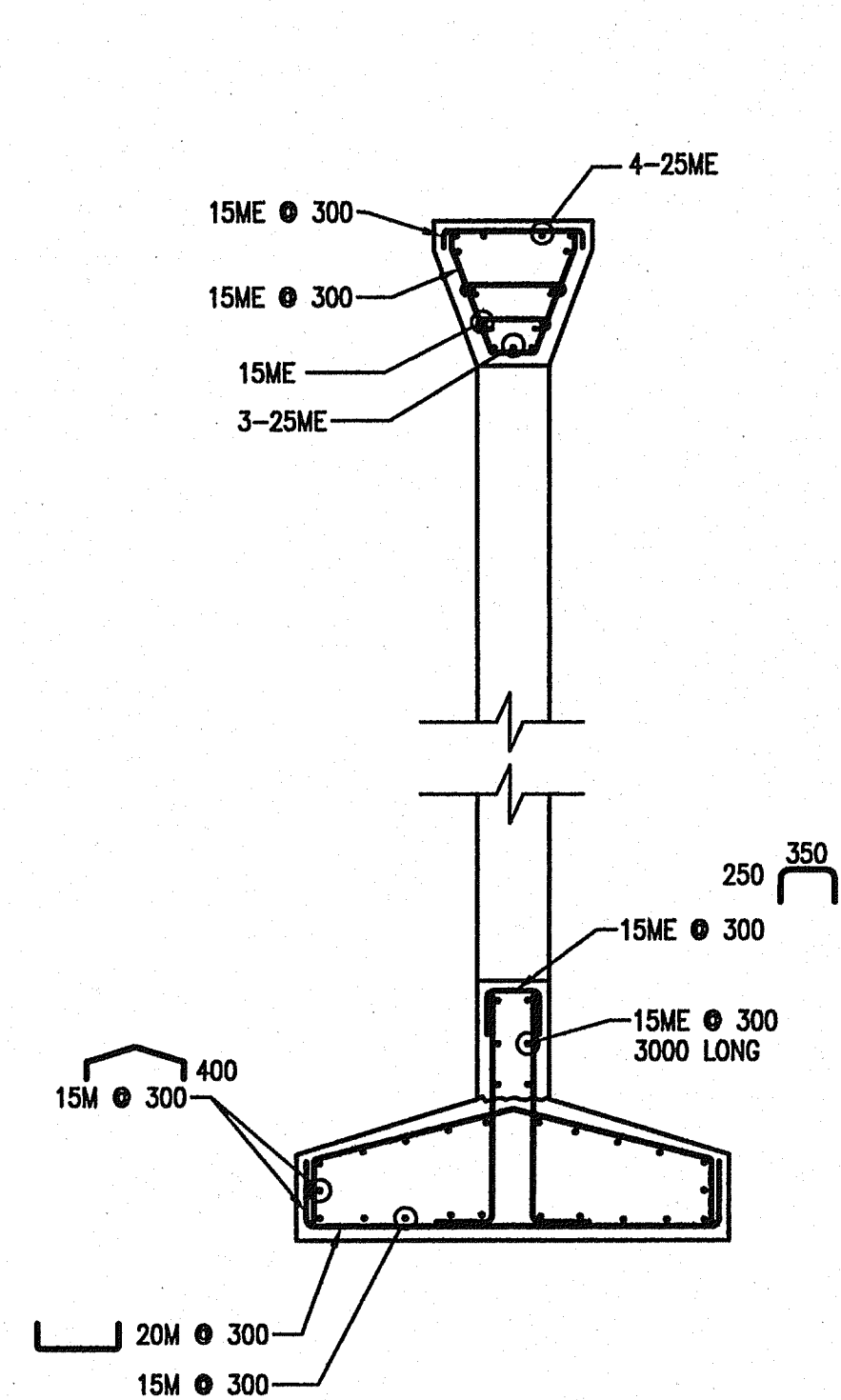
NOTES:  
1. SEE DRAWING 202



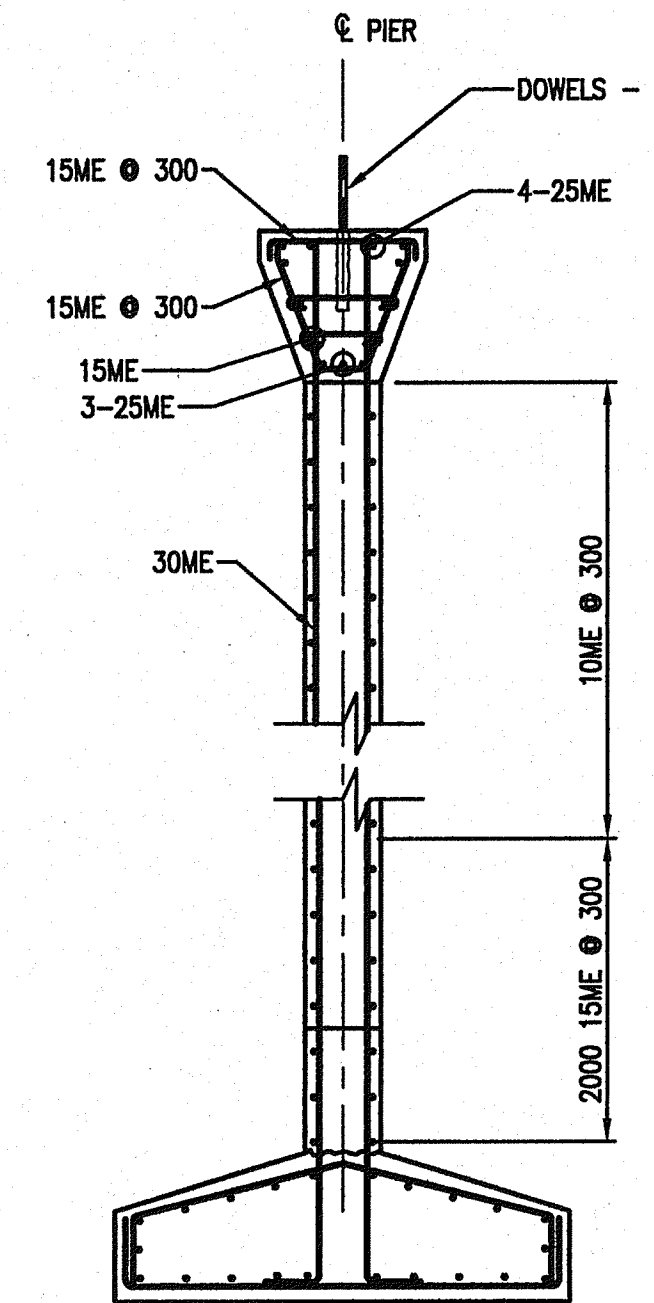
PIER 1, 2 & 3 PLAN



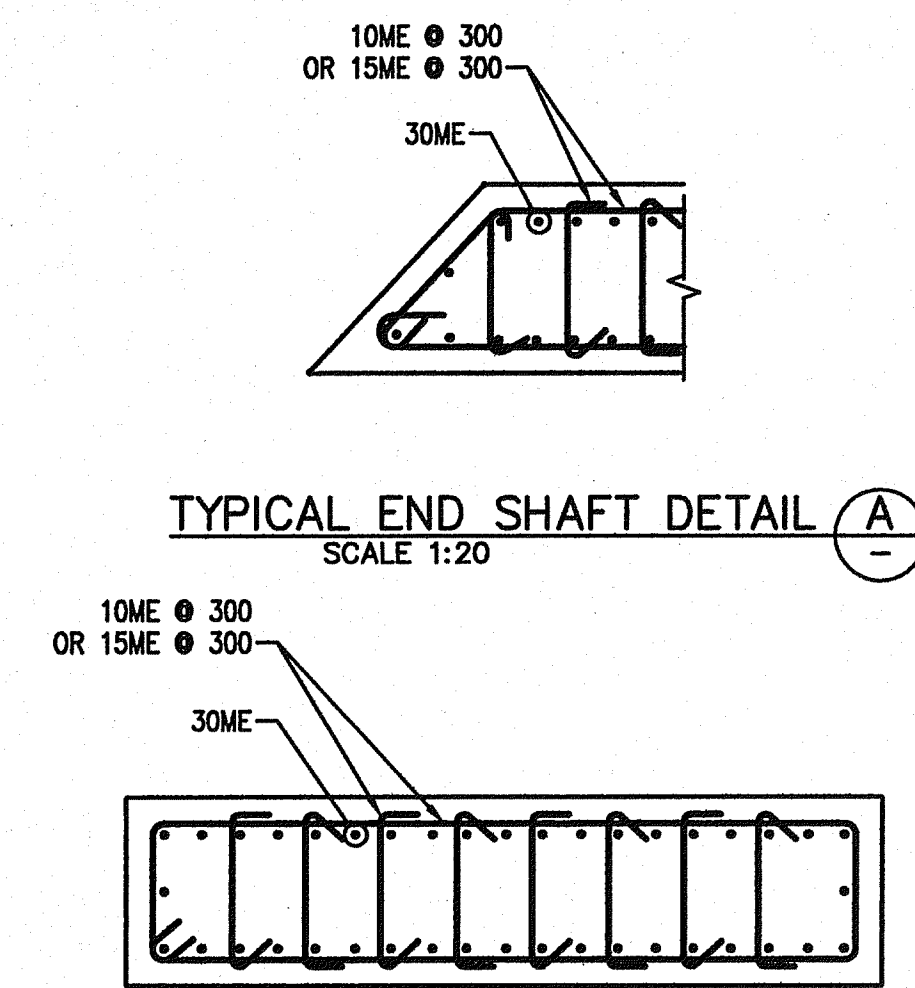
ELEVATION  
SCALE 1:50



SECTION 1  
SCALE 1:50

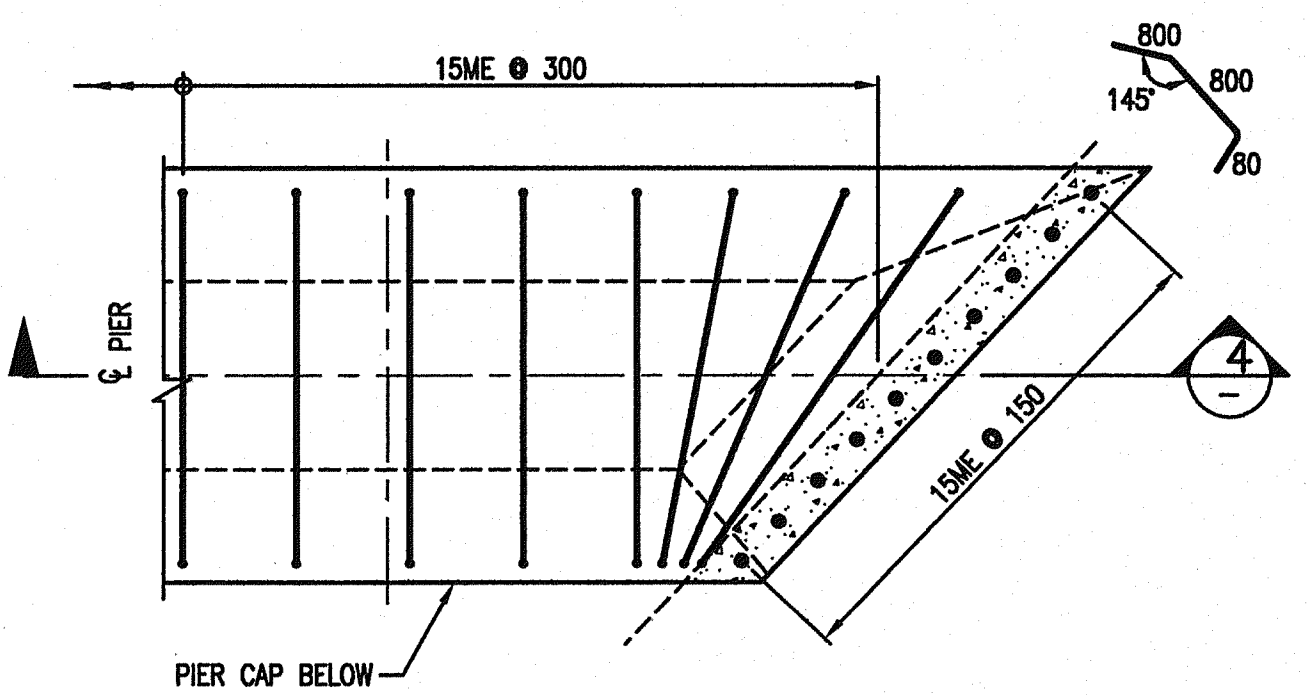


SECTION 2  
SCALE 1:50

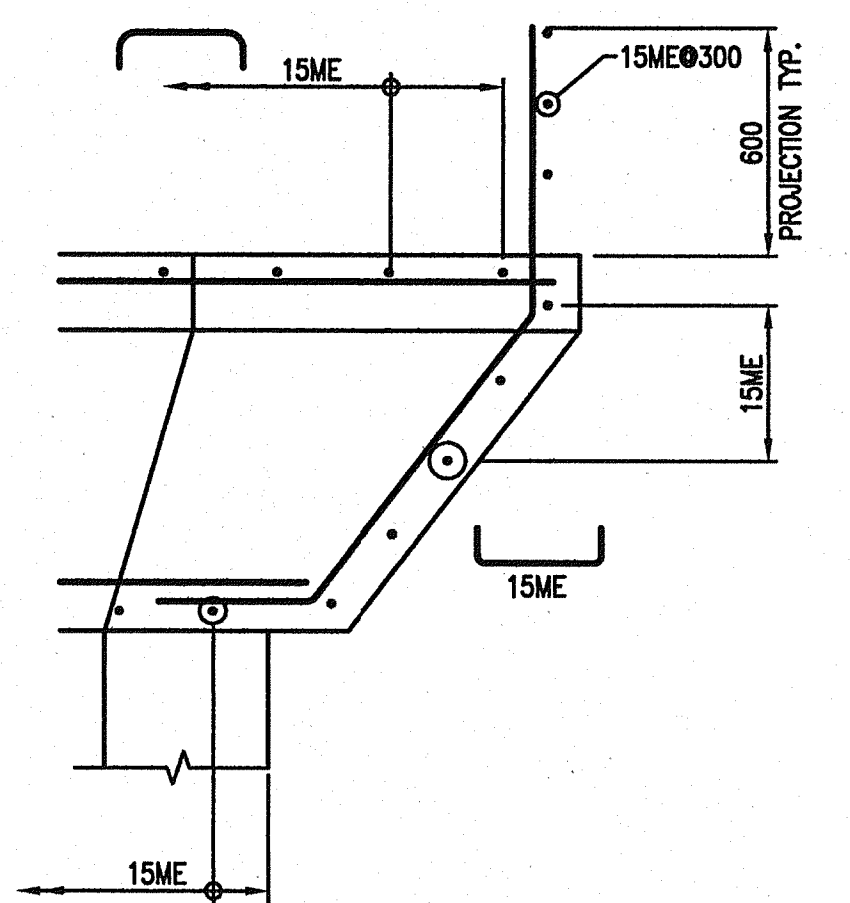


TYPICAL END SHAFT DETAIL (A)  
SCALE 1:20

TYPICAL SHAFT SECTION (3)  
SCALE 1:20



DETAIL (B)  
SCALE 1:20



SECTION 4  
SCALE 1:50



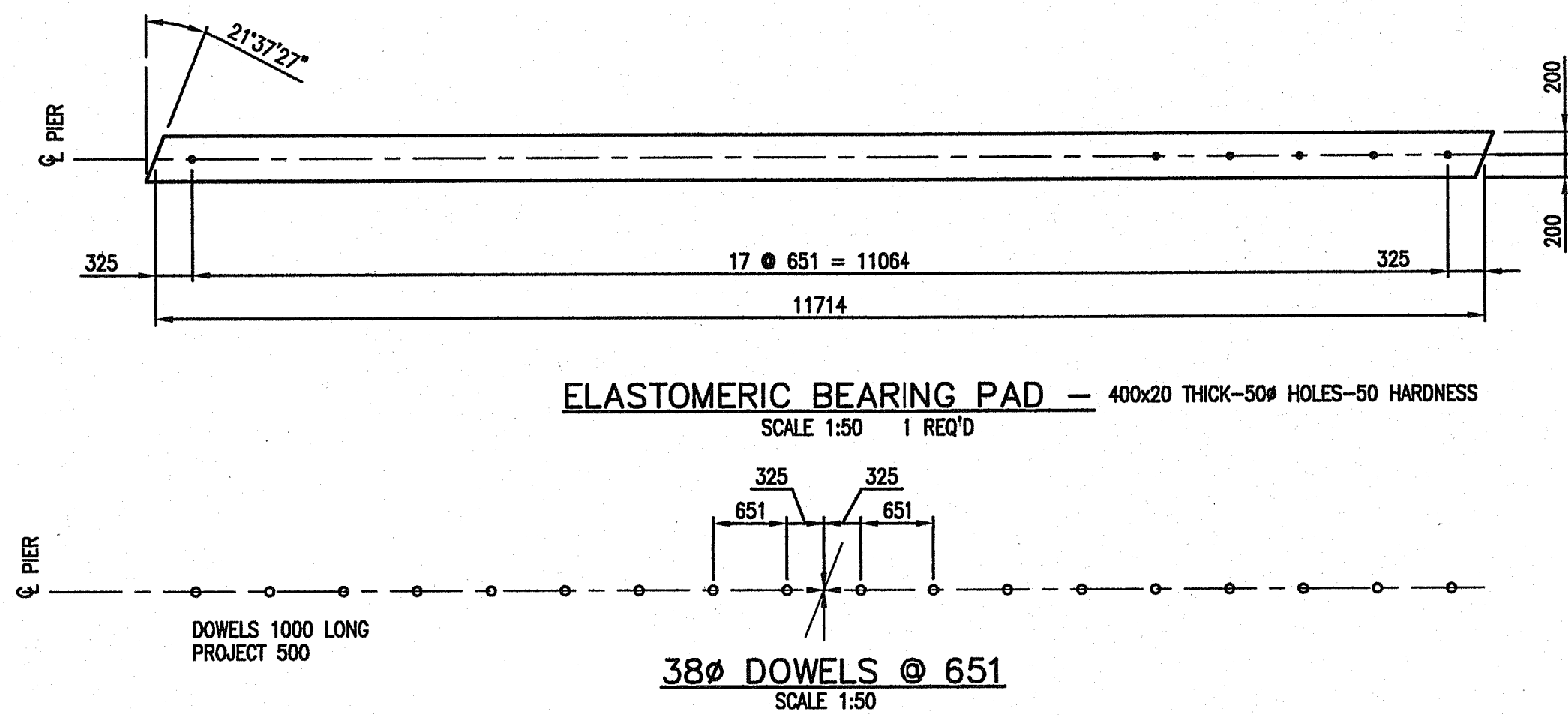
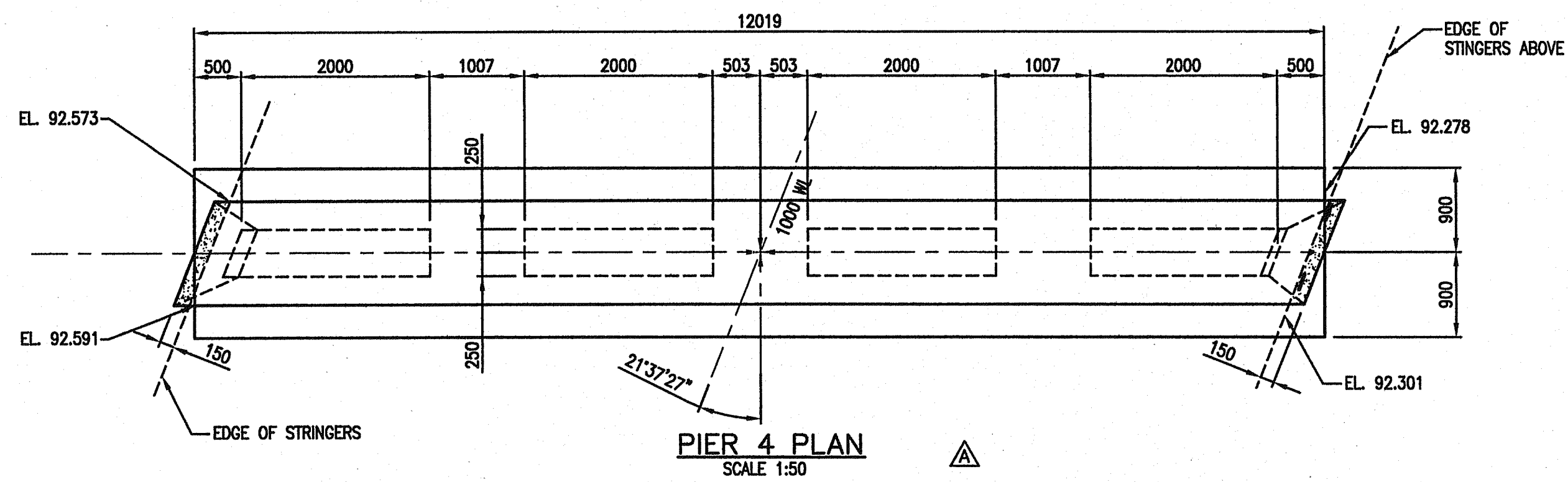
Rev	Date	Description	Initial	SCALE	DESIGNED: AAW DATE: JULY 2004	CHECKED: SL DATE: JULY 2004	DRAWN: KDW DATE: JULY 2004
J				0 1:200 10			
I							
H							
G							
F							
E							
D							
C							
B	AUG 15/07	AS CONSTRUCTED	LLP	MAY 19/05	ISSUED FOR CONSTRUCTION		KDW
A	MAY 19/05	MINOR CHANGES	KDW	MAR 16/05	ISSUED FOR TENDER		KDW
REVISIONS				Date	ISSUE RECORD	Initial	

City of Abbotsford

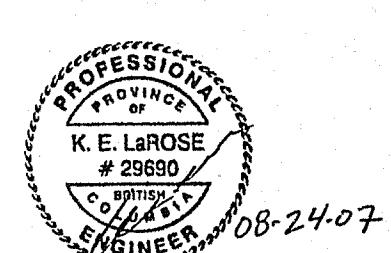
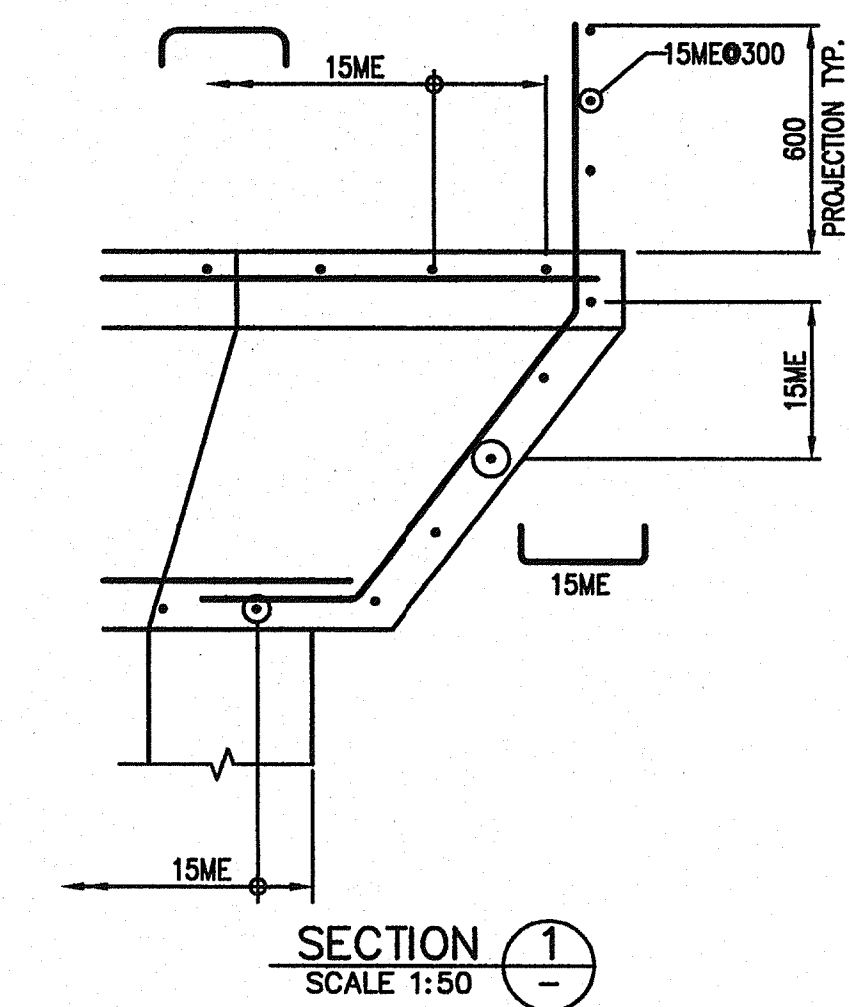
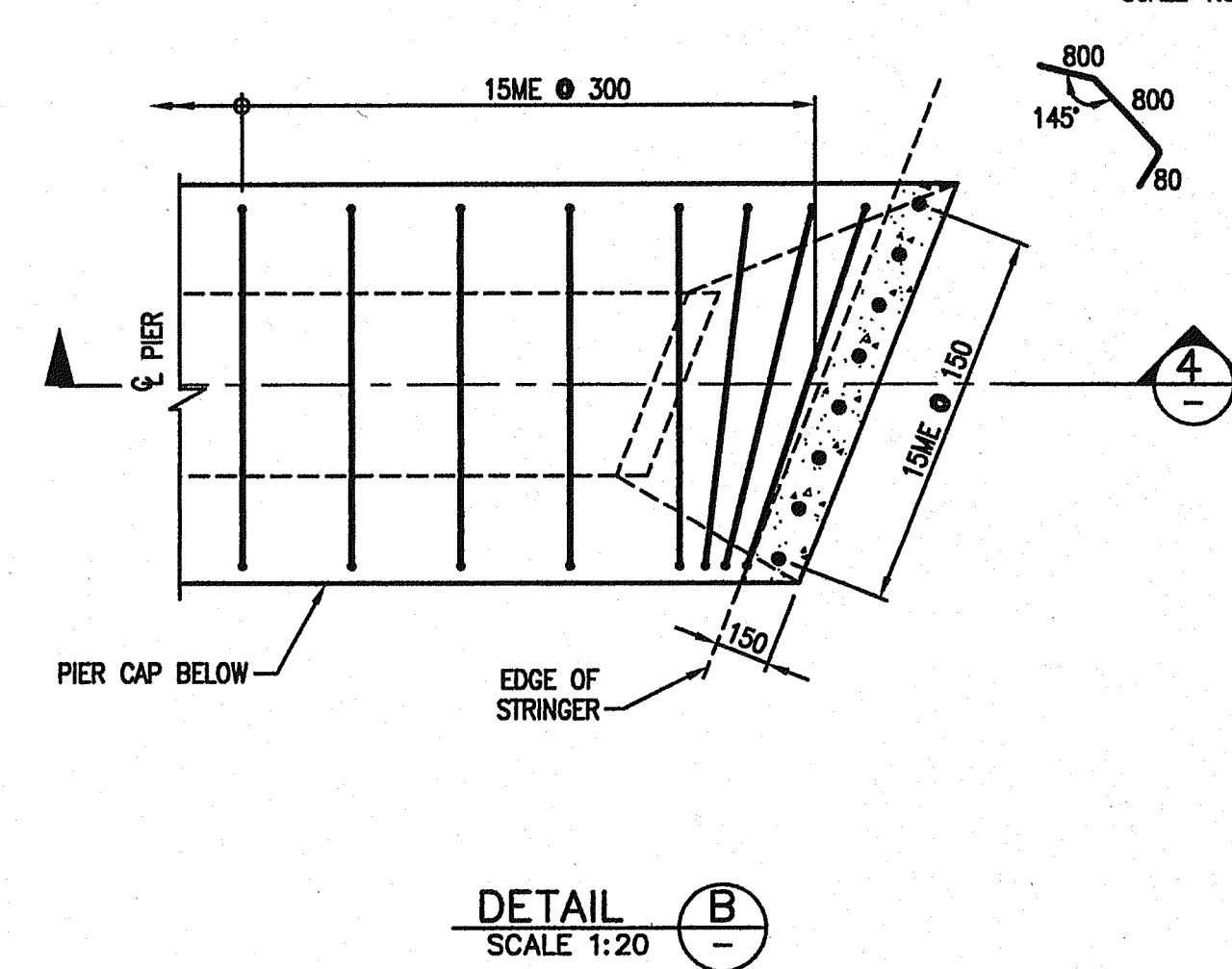
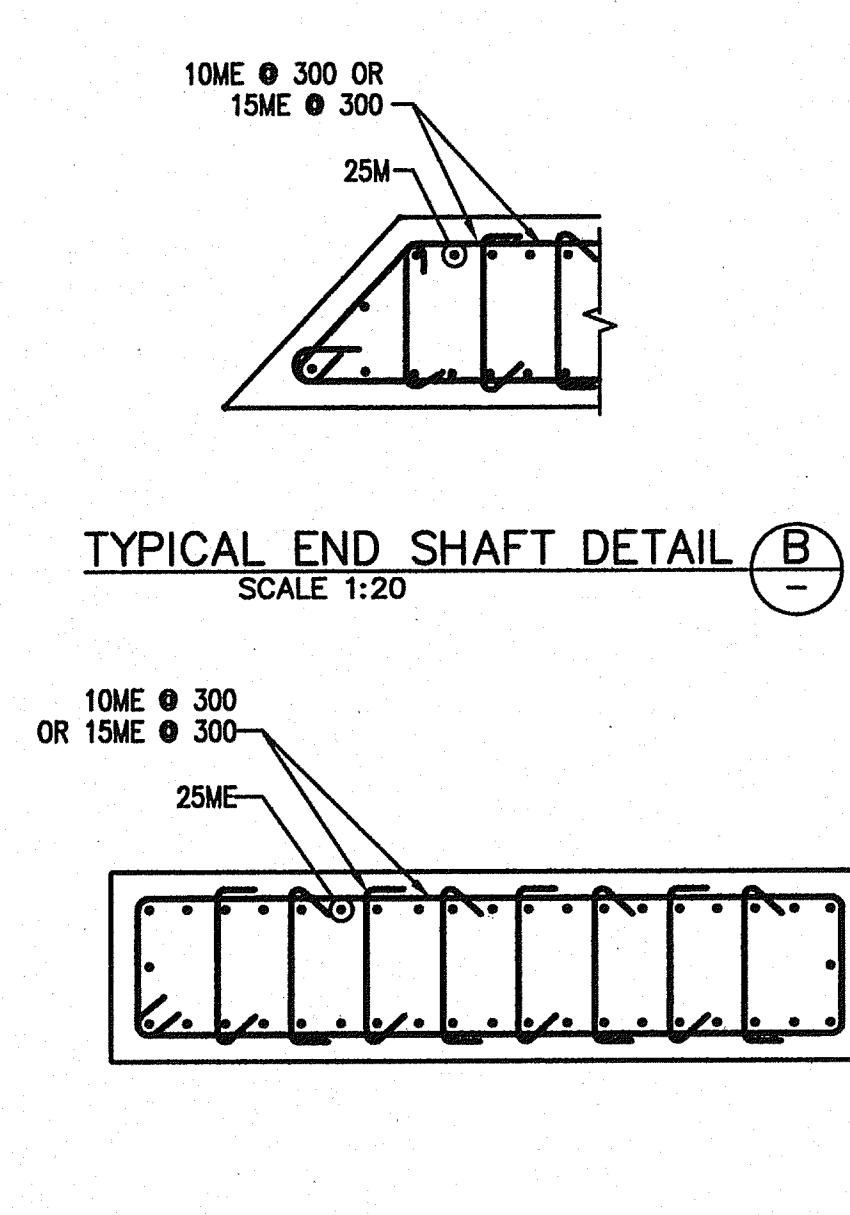
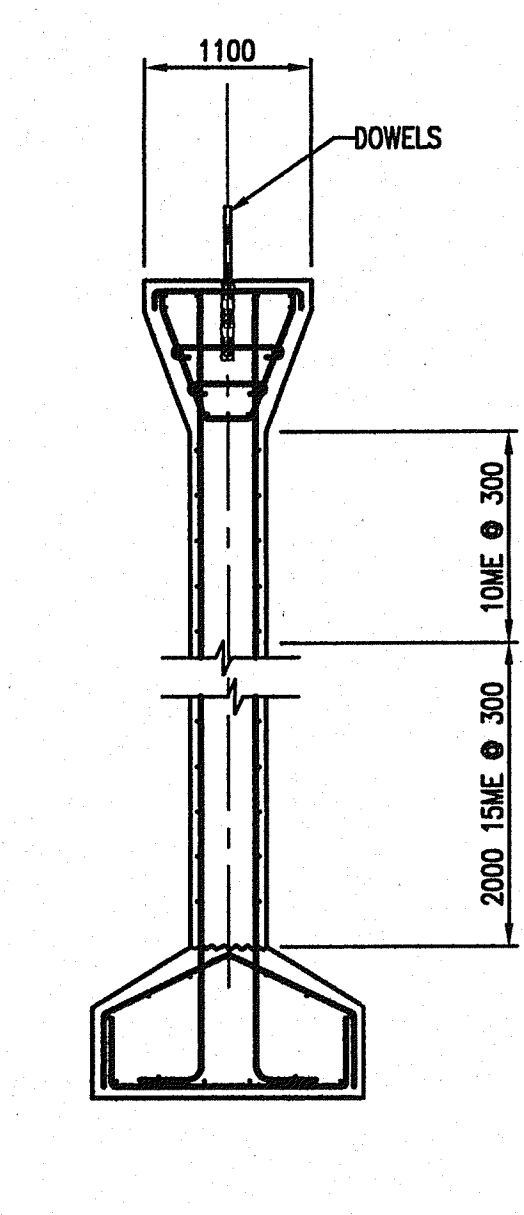
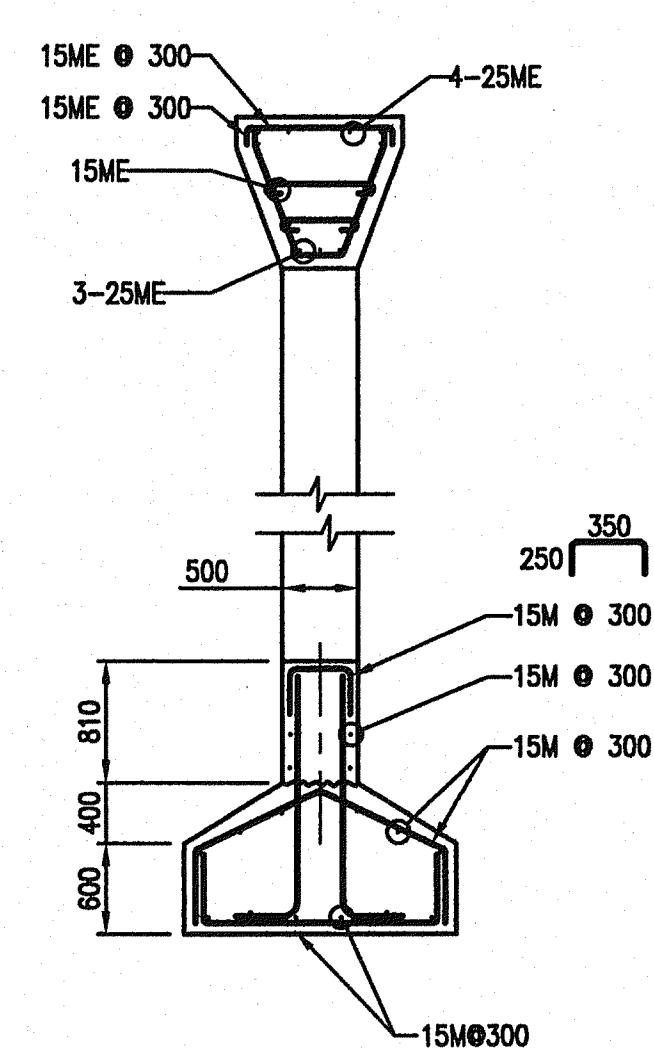
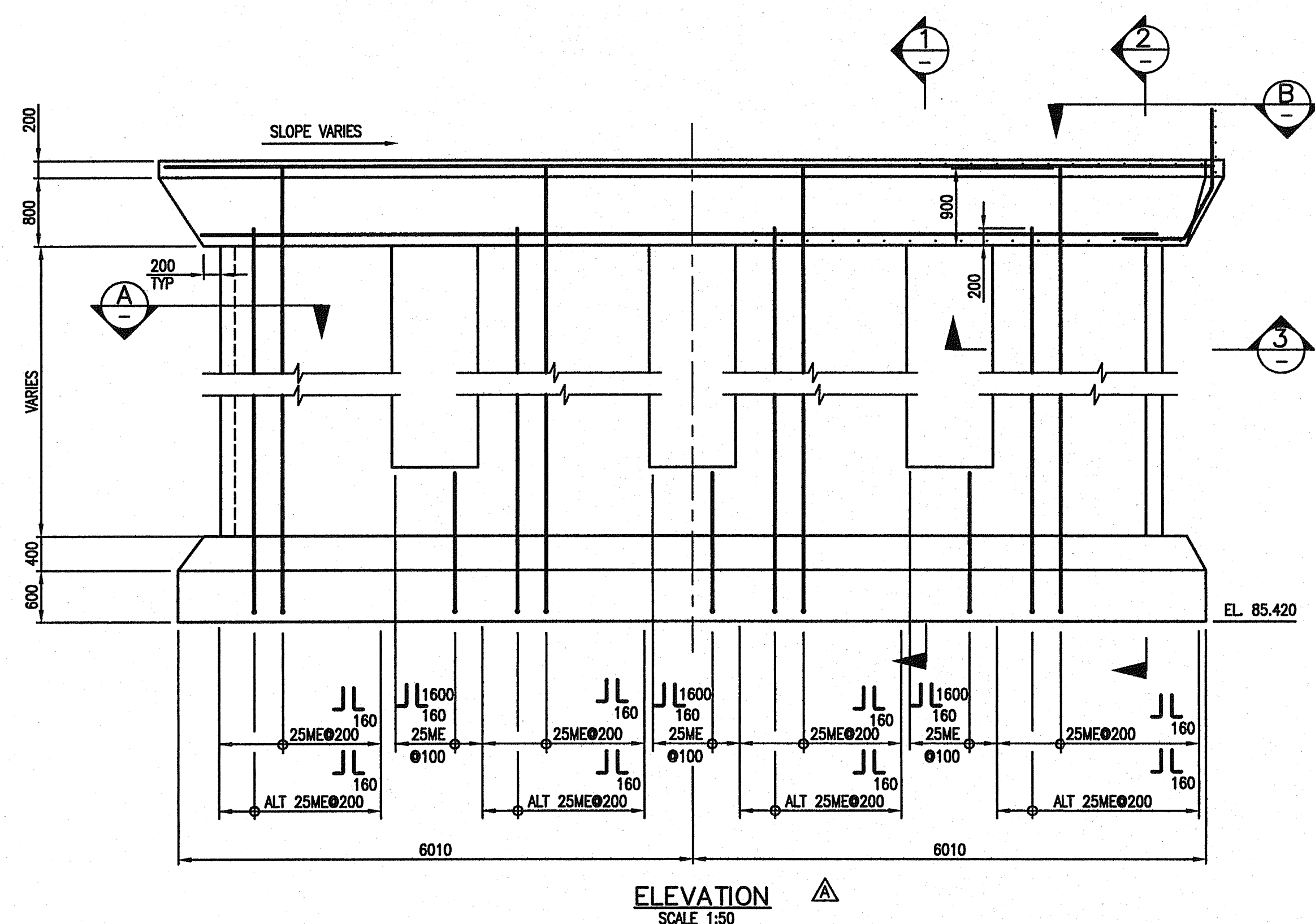
MINISTRY OF TRANSPORTATION  
SOUTH COAST REGION

FRASER HIGHWAY EAST UNDERPASS  
PIER REINFORCING  
#1, 2 & 3 601840

FILE No. 2111-02072-0 REGION 1 DRAWING No. 1554E-203



NOTES:  
1. SEE DRAWING 202



Rev	Date	Description	Initial	SCALE	DESIGNED: AAW DATE: JULY 2004	CHECKED: SI DATE: JULY 2004	DRAWN: KDW DATE: JULY 2004
J				0 1:200 10			
I							
H							
G							
F							
E							
D							
C							
B	AUG 15/07	AS CONSTRUCTED	LLP	MAY 19/05	ISSUED FOR CONSTRUCTION		KDW
A	MAY 19/05	MINOR CHANGES	KDW	MAR 16/05	ISSUED FOR TENDER		KDW
REVISIONS				Date	ISSUE RECORD	Initial	

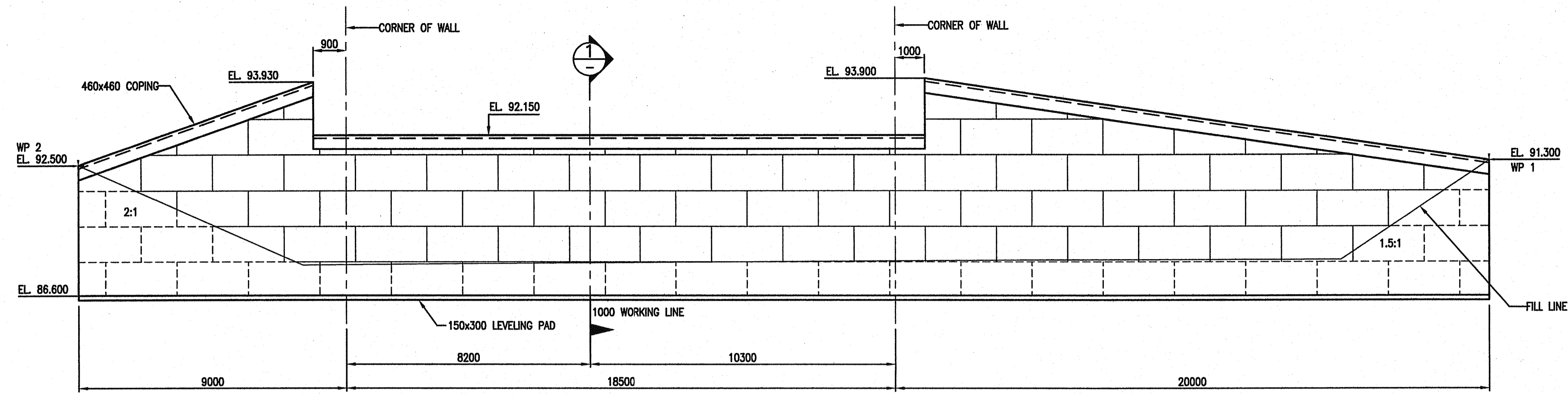
City of Abbotsford

MINISTRY OF TRANSPORTATION  
SOUTH COAST REGION

FRASER HIGHWAY EAST UNDERPASS  
PIER #4 601841

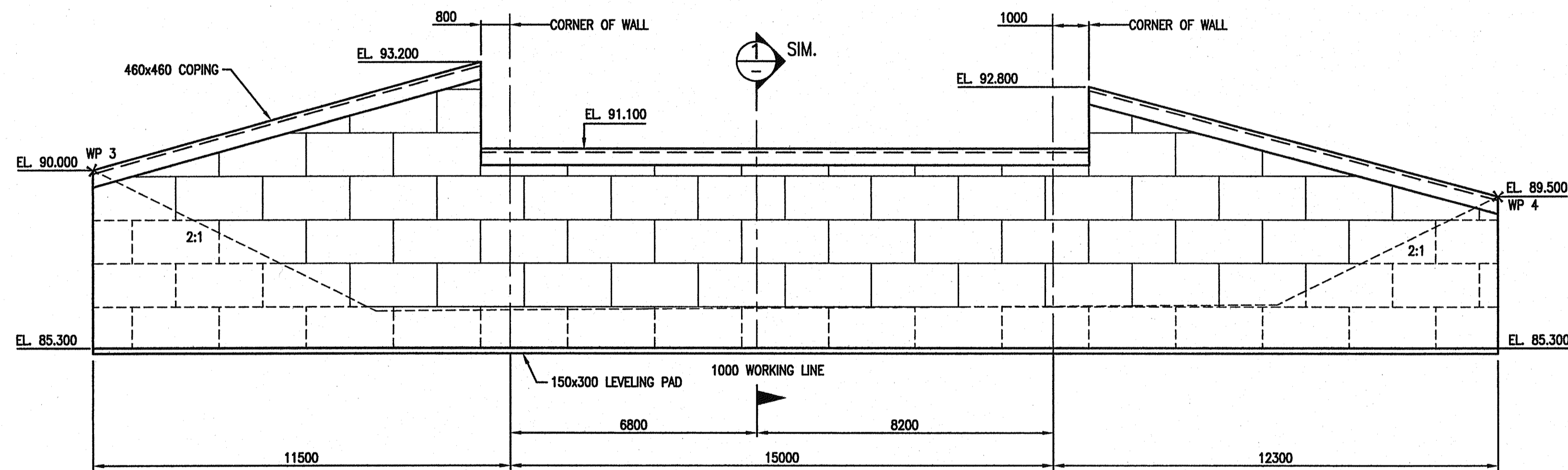
FILE No. 2111-02072-0  
REGION 1  
DRAWING No. 1554E-204

McElhenny

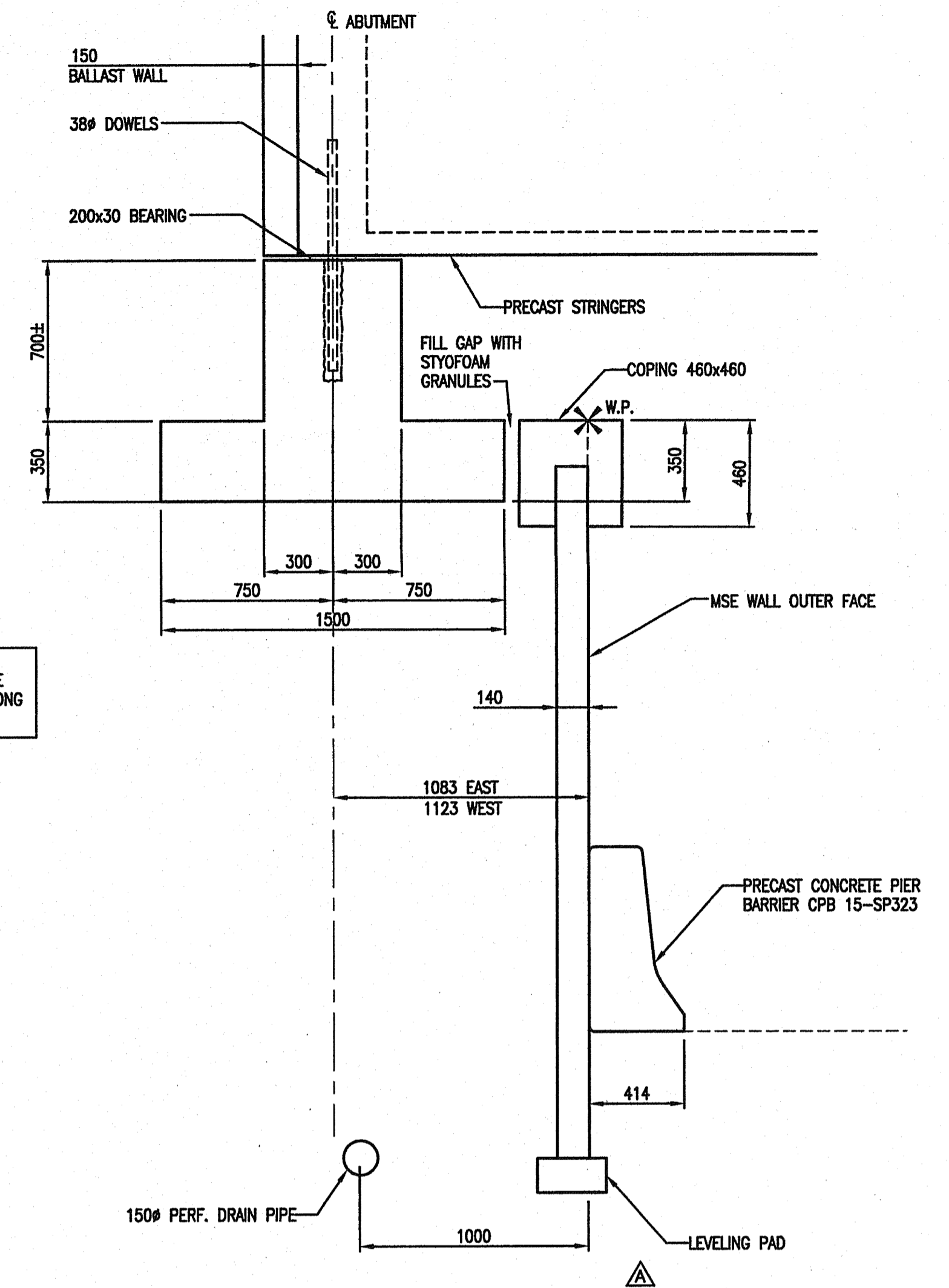


DEVELOPED VIEW WEST MSE WALL  
LOOKING WEST  
SCALE 1:100

NOTE:  
WORKPOINTS SHOWN TO DEFINE MSE  
ABUTMENT WALL ALIGNMENT ARE ALONG  
FRONT FACE OF WALL



DEVELOPED VIEW EAST MSE WALL  
LOOKING EAST  
SCALE 1:100



SECTION 1  
SCALE 1:20  
AT 1000 W.L.

**MSE WALL DESIGN CRITERIA**

- DESIGN CODE: CAN/CSA S6-00 AND AASHTO.
- BRIDGE LOADS AT u/s OF SEATING:
 

WEST	EAST
VERTICAL D.L. = 128 kN/m	= 95 kN/m
VERTICAL LL = 42 kN/m	= 53 kN/m
TRANSVERSE SEISMIC = 8 kN/m	= 8 kN/m
LONGITUDINAL SEISMIC = 0 kN/m	= 0 kN/m
HORIZONTAL BRAKING LOAD = 2 kN/m	= 2 kN/m
- CORROSION ALLOWANCE PER AASHTO (100 YEARS).
- ZONAL ACCELERATION RATIO (ABBOTSFORD) = 0.20
- FRONT FACE FINISH CLASS 3.

W.P.	NORTHING	EASTING
1	35708.266	45798.438
2	35685.897	45830.130
3	35741.171	45930.588
4	35713.198	45944.526

PROFESSIONAL  
ENGINEER  
K. E. LAROSE  
# 28630  
08-24-07  
V ALL  
GEOMETRY  
ONLY

Rev	Date	Description	Initial	SCALE	DESIGNED	DATE	CHECKED	DATE	DRAWN	DATE
J				0 1:200 10	AW	JULY 2004	RP	JULY 2004	KDW	JULY 2004
I										
H										
G										
F										
E										
D										
C										
B	AUG 15/07	AS CONSTRUCTED	LLP			MAY 19/05				KDW
A	MAY 19/05	MINOR CHANGES	KDW			MAR 16/05				KDW
REVISIONS				Date	ISSUE RECORD	Initial				

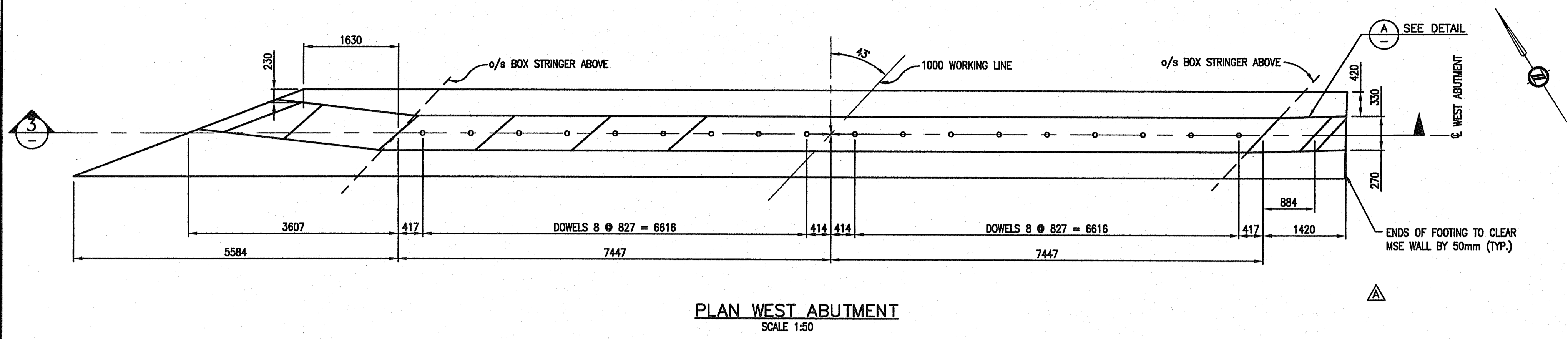
City of Abbotsford

MINISTRY OF TRANSPORTATION  
SOUTH COAST REGION

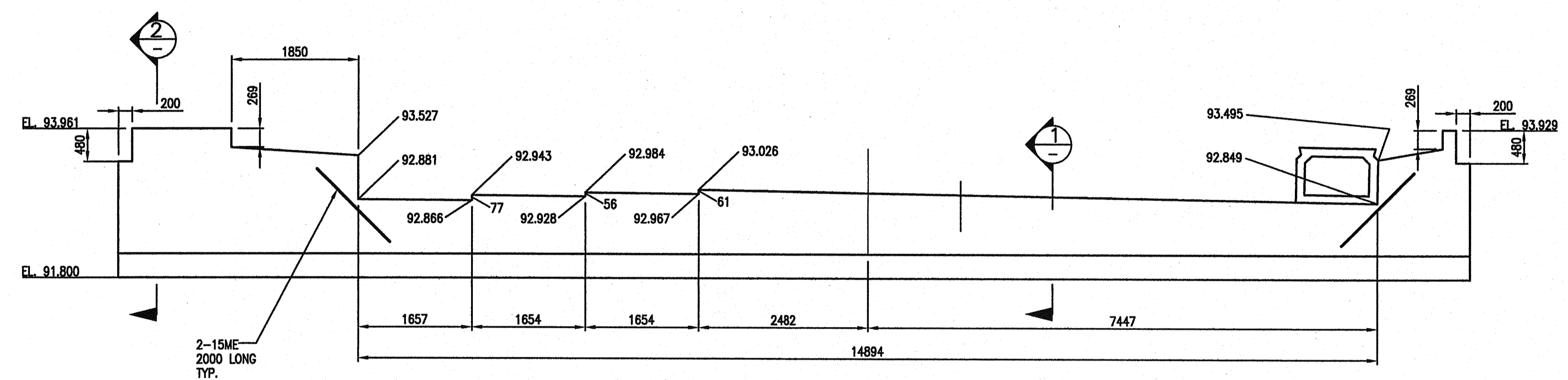
FRASER HIGHWAY EAST UNDERPASS  
MSE WALLS 601842

FILE No. 2111-02072-0  
McElhanney  
REGION 1  
DRAWING No. 1554E-205  
B

- NOTES:
- SEE DRAWING 202.
  - BEARINGS TO BE INTERRUPTED AT STEPS ON ABUTMENT BREASTWALL.
  - AREAS OF TOP OF BREAST WALL ARE LEVEL NORTH/SOUTH AND STRAIGHT EAST/WEST BETWEEN GIVEN ELEVATIONS.

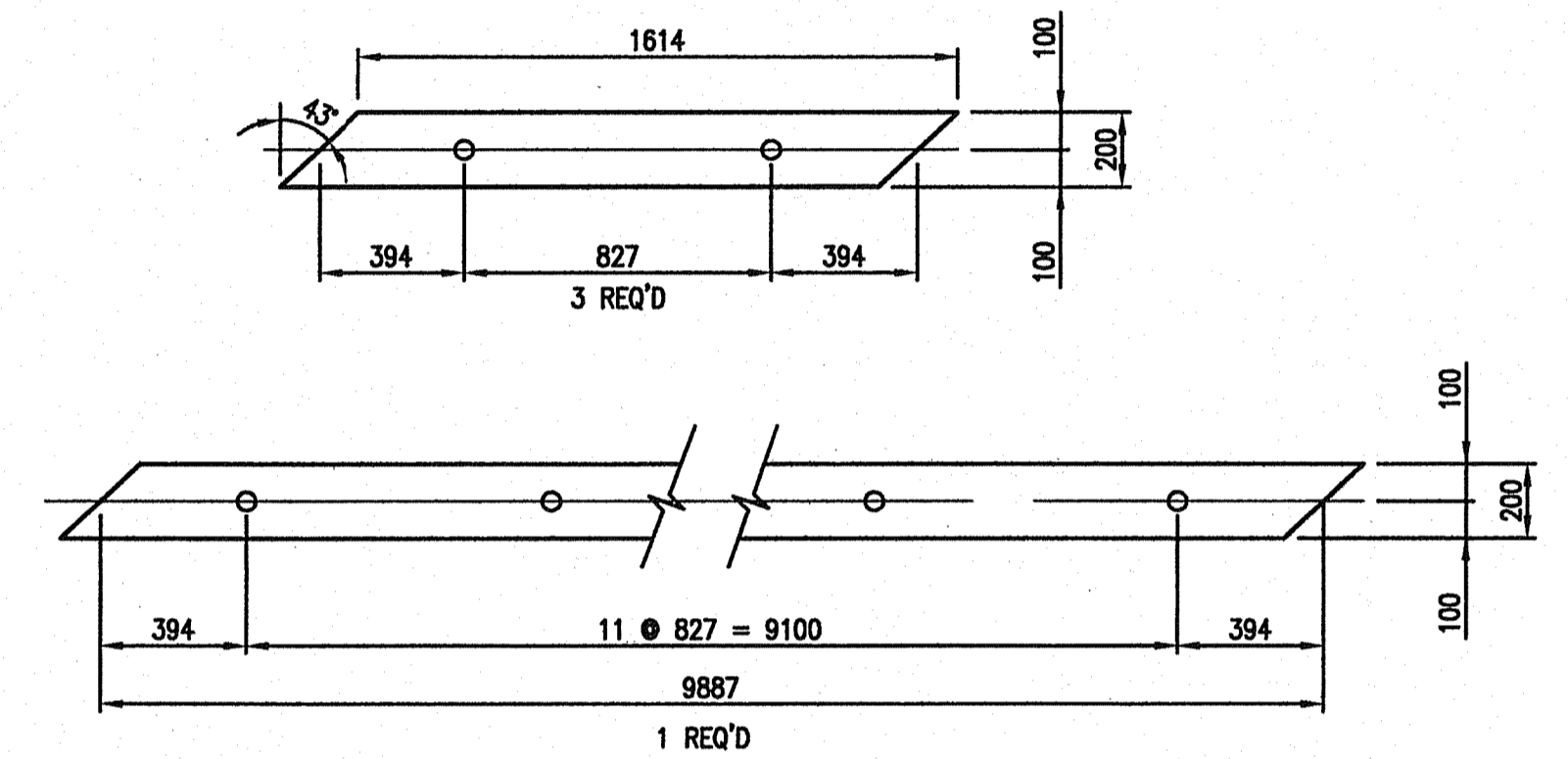


PLAN WEST ABUTMENT  
SCALE 1:50

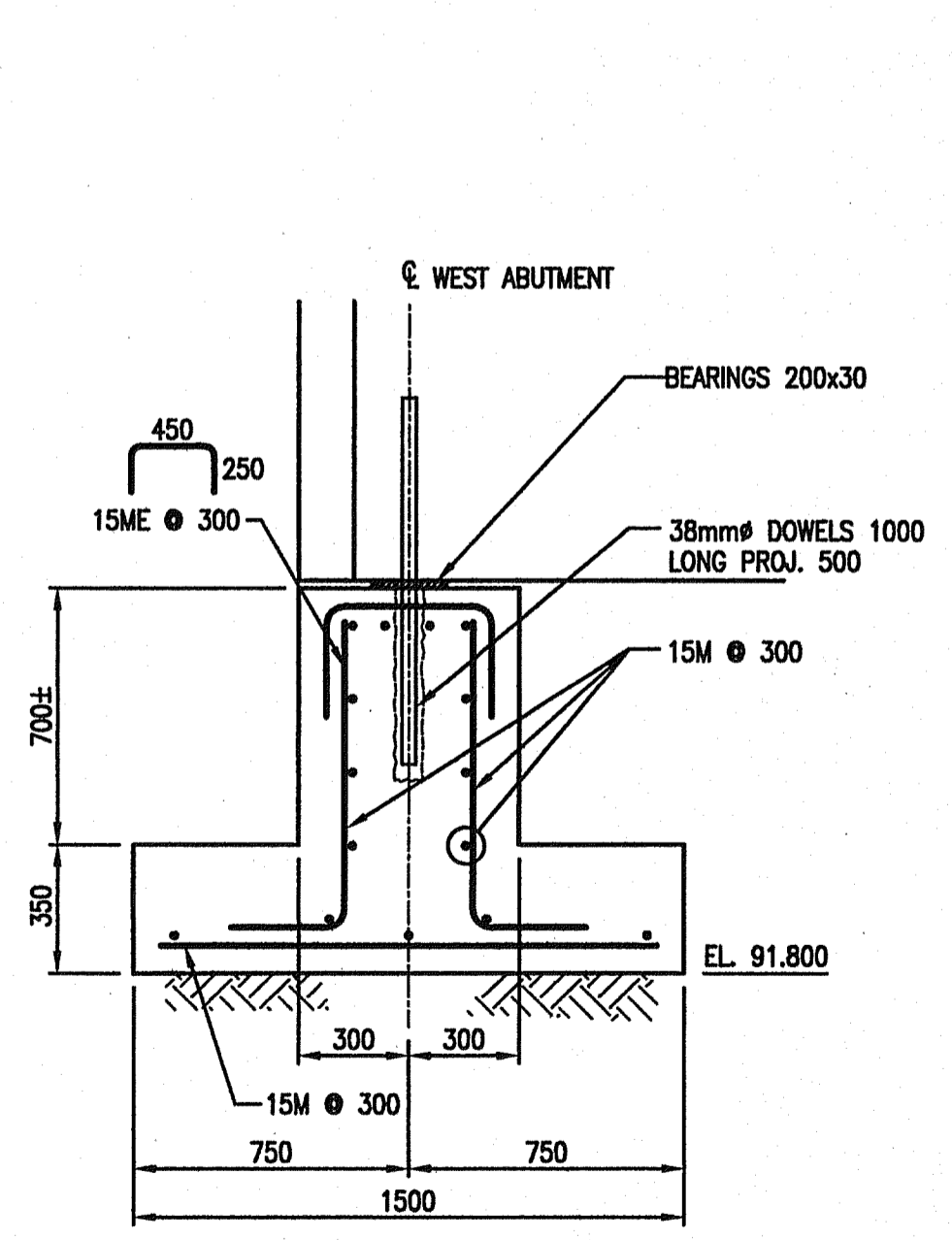


SECTION 3  
SCALE 1:50

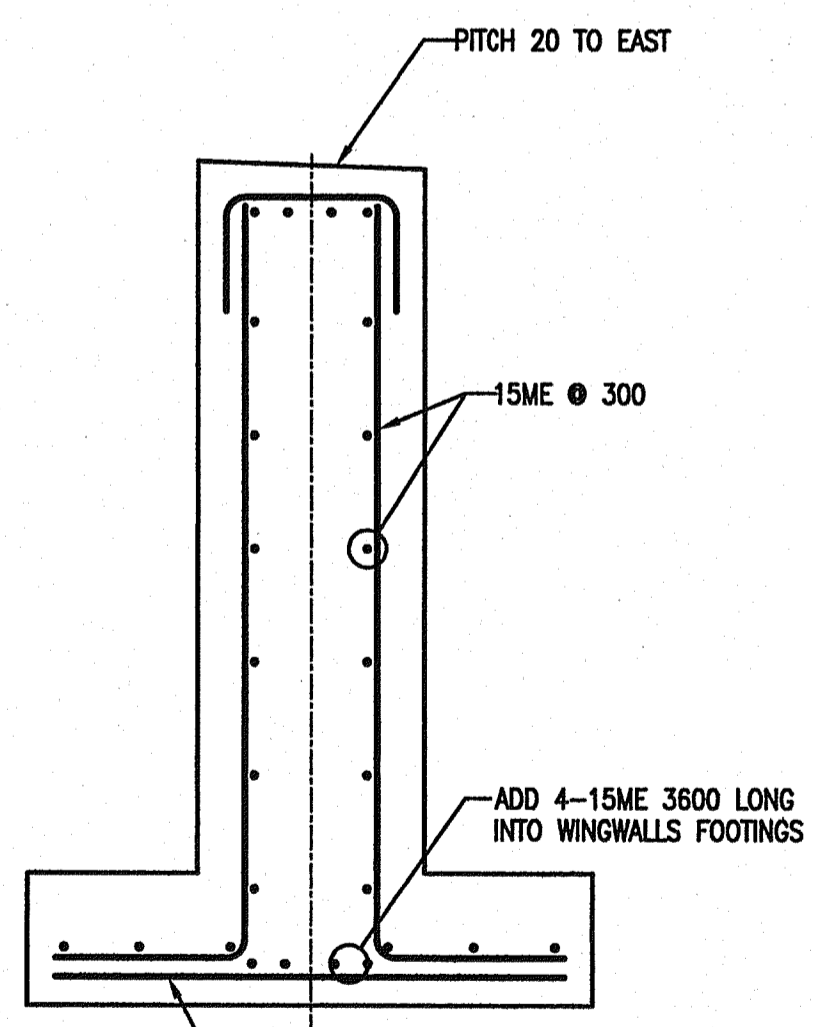
\* ELEVATIONS SHOWN ARE "AS CONSTRUCTED" MINIMAL SETTLEMENT OCCURRED DURING CONSTRUCTION TIMEFRAME



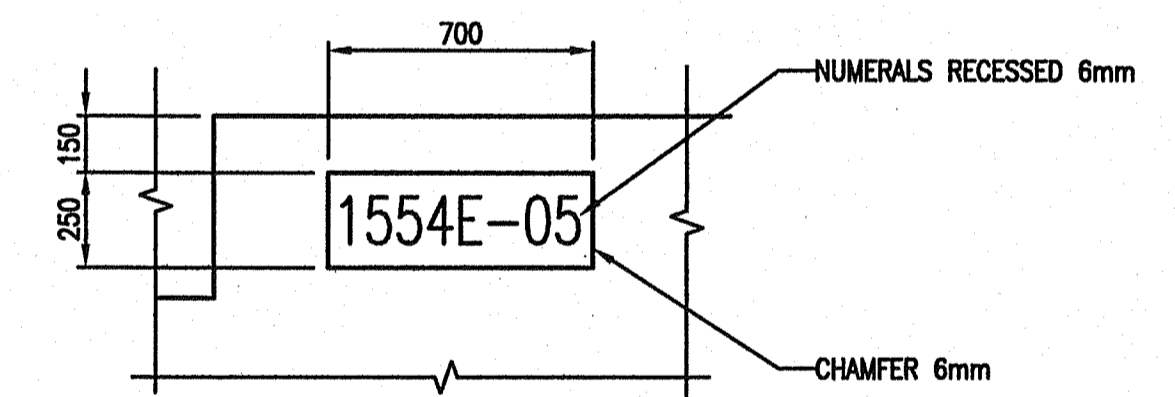
ELASTOMERIC BEARING PADS - 50# HOLES 30mm THICK 50 HARDNESS  
SCALE 1:20



SECTION 1  
SCALE 1:20

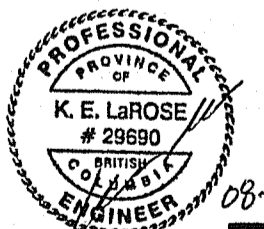


SECTION 2  
SCALE 1:20



DETAIL A  
SCALE 1:20

BRIDGE NUMBER AND YEAR OF CONSTRUCTION CAST IN 125mm HIGH NUMERALS AS SHOWN. NUMERAL FORMS LOANED BY THE MINISTRY OF TRANSPORTATION.



08-24-07

Rev	Date	Description	Initial	SCALE	DESIGNED	CHECKED	DRAWN
J					AWW	RP	KDW
I							
H							
G							
F							
E							
D							
C							
B	AUG 15/07	AS CONSTRUCTED	LLP	MAY 19/05	ISSUED FOR CONSTRUCTION		KDW
A	MAY 19/05	MINOR CHANGES	KDW	MAR 16/05	ISSUED FOR TENDER		KDW
REVISIONS				Date	ISSUE RECORD	Initial	

City of Abbotsford

MINISTRY OF TRANSPORTATION  
SOUTH COAST REGION

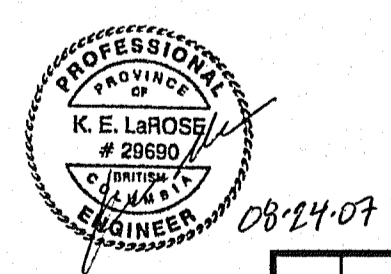
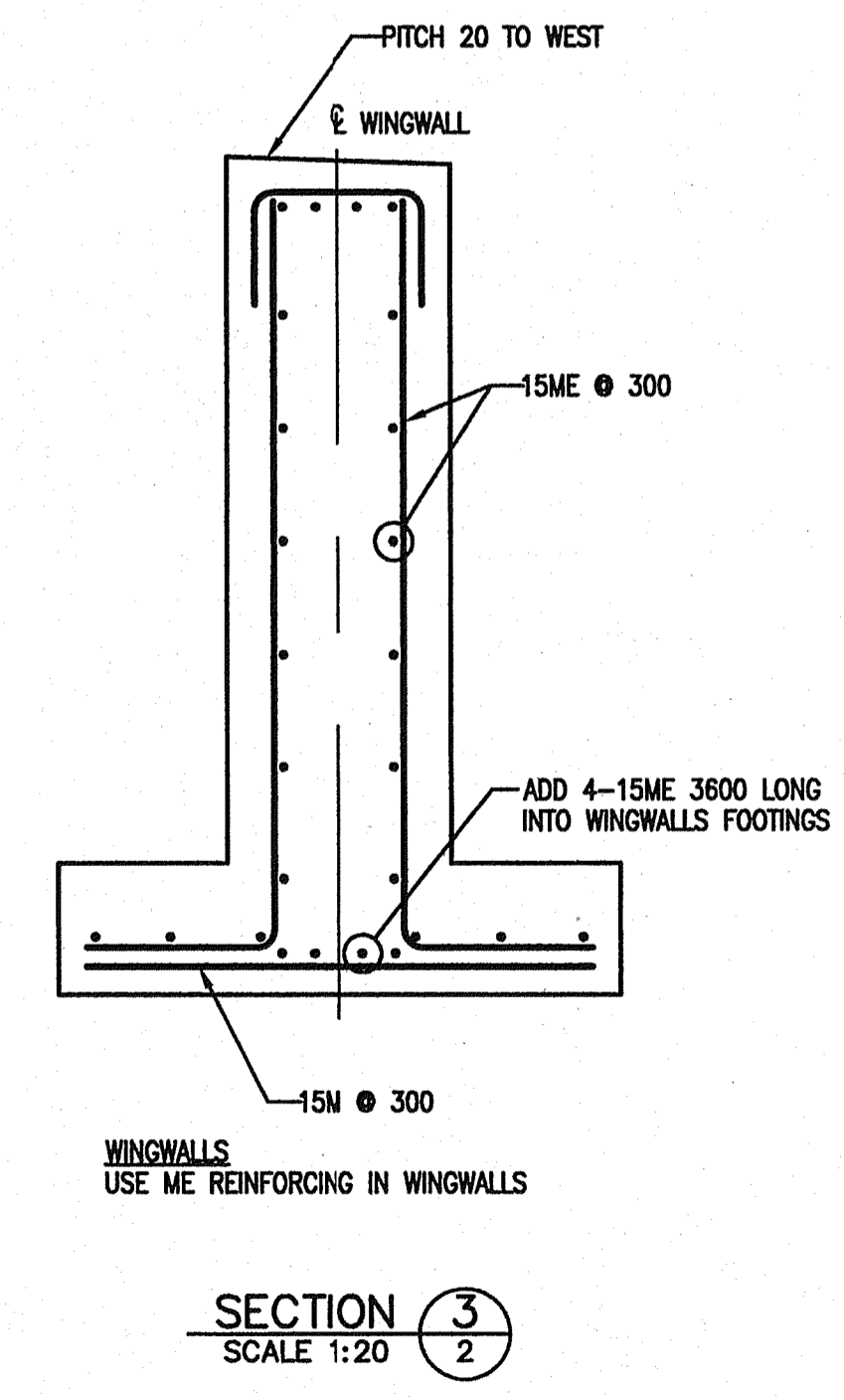
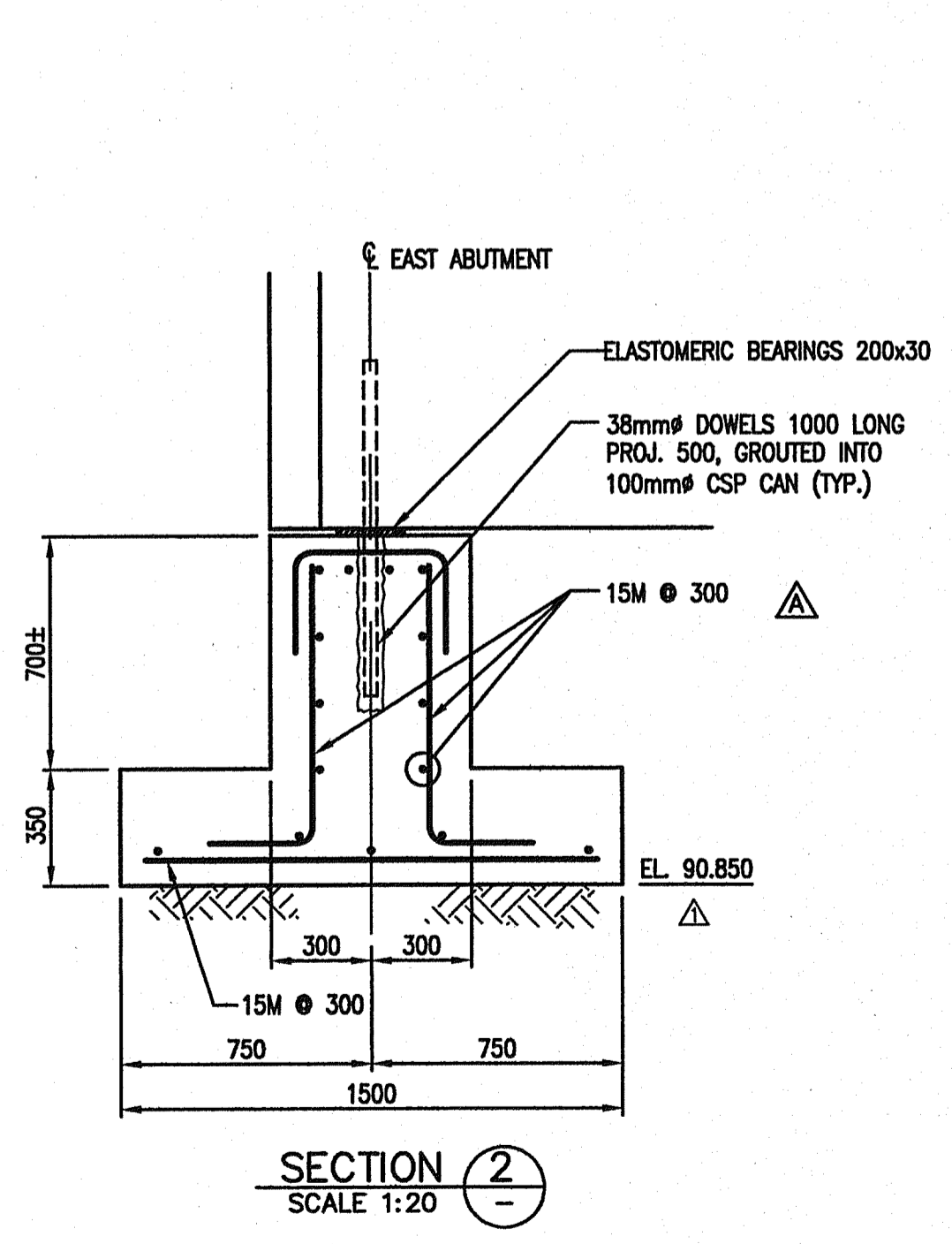
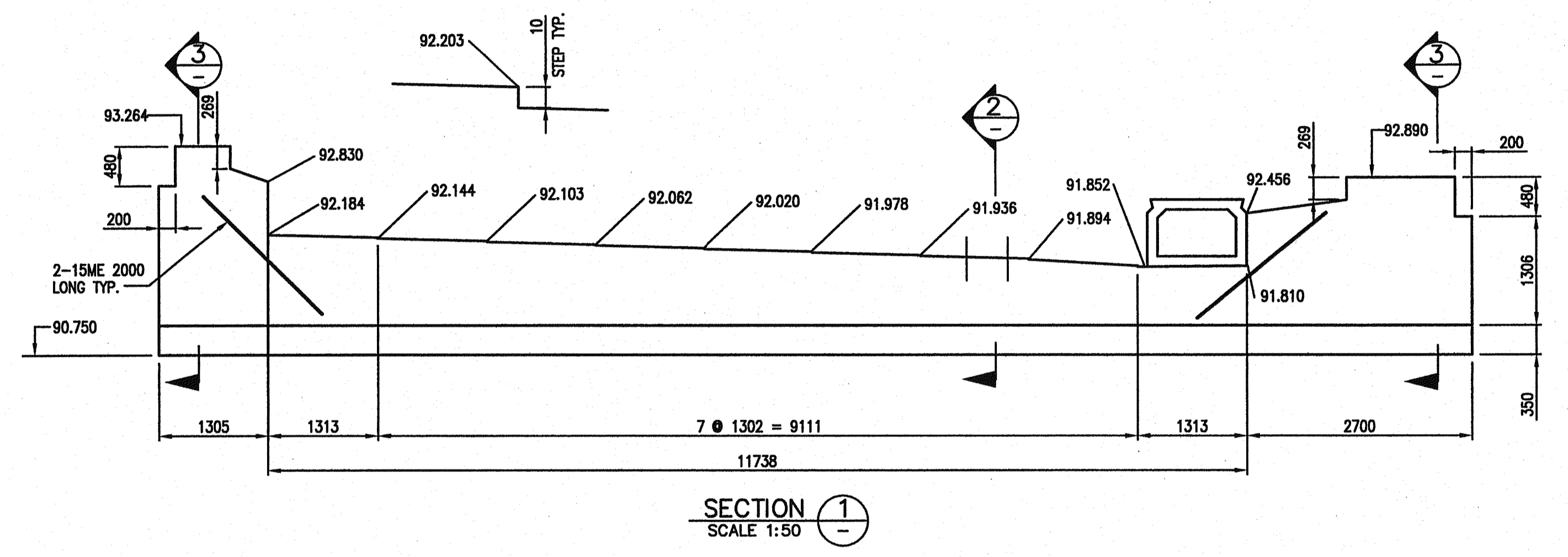
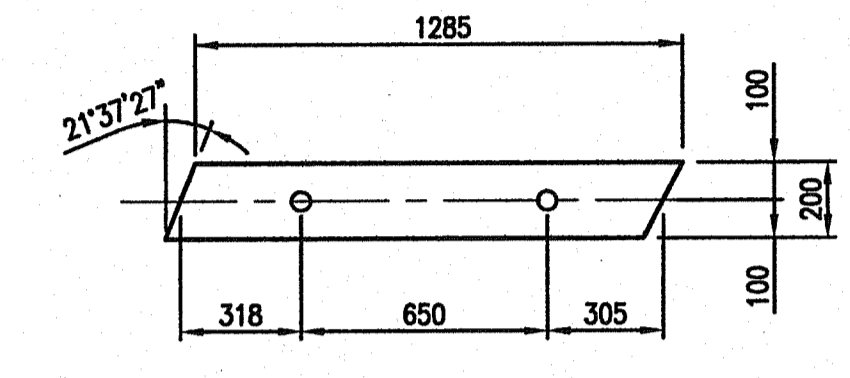
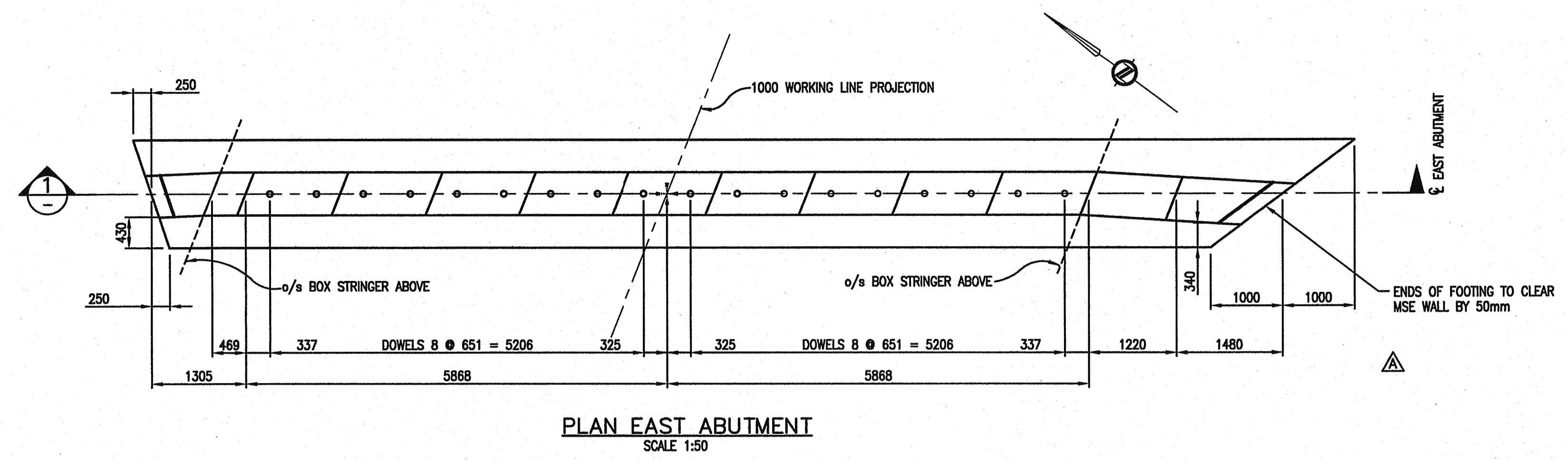
FRASER HIGHWAY EAST UNDERPASS  
WEST ABUTMENT

601843

FILE No. 2111-02072-0  
DRAWING No. 1554E-206



- NOTES:
- SEE DRAWING 202.
  - BEARINGS TO BE INTERRUPTED AT STEPS ON ABUTMENT BREASTWALL.
  - AREAS OF TOP OF BREAST WALL MUST BE LEVEL NORTH/SOUTH AND STRAIGHT EAST/WEST BETWEEN GIVEN ELEVATIONS. TOLERANCE 1mm±



Rev	Date	Description	Initial	SCALE	DESIGNED	DATE
J				0 1:200 10	AW	JULY 2004
I					SL	JULY 2004
H					KDW	JULY 2004
G						
F						
E						
D						
C						
B	AUG 15/07	AS CONSTRUCTED	LLP			
A	MAY 19/05	MINOR CHANGES	KDW			
REVISIONS				Date	ISSUE RECORD	Initial

City of Abbotsford

MINISTRY OF TRANSPORTATION  
SOUTH COAST REGION

**FRASER HIGHWAY EAST UNDERPASS**  
EAST ABUTMENT 601844

FILE No. 2111-02072-0 REGION 1 DRAWING No. 1554E-207

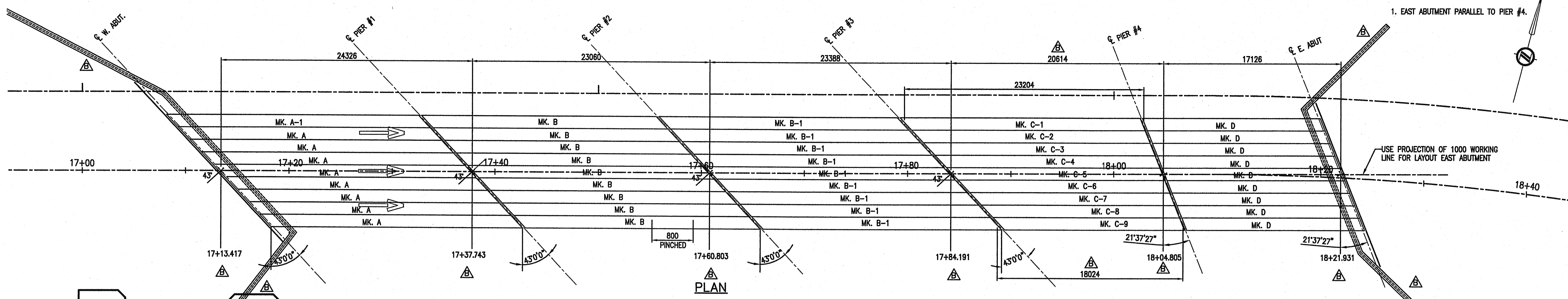
McElhanney

NOTES:

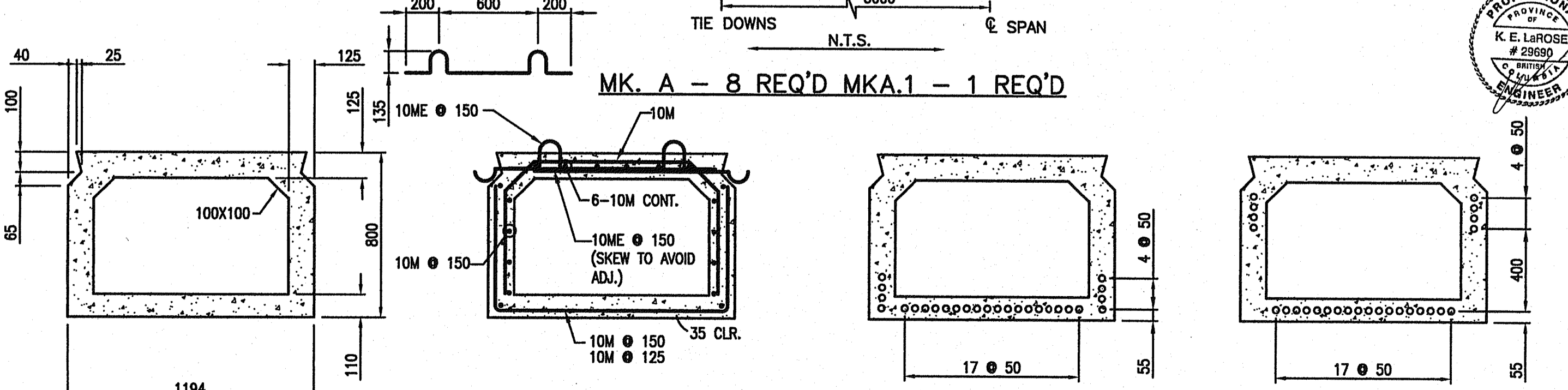
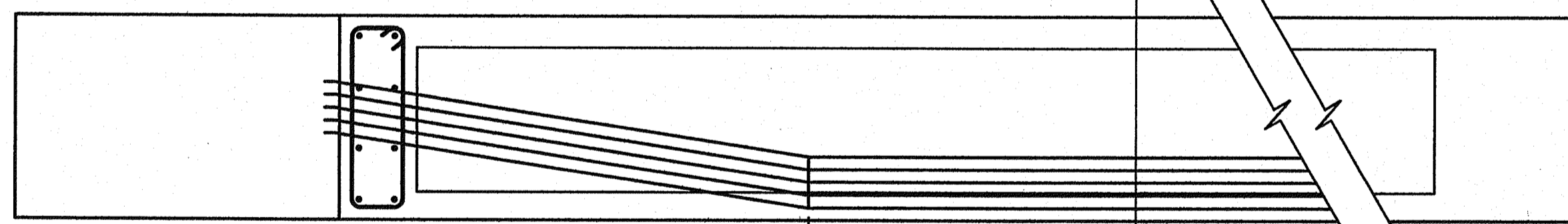
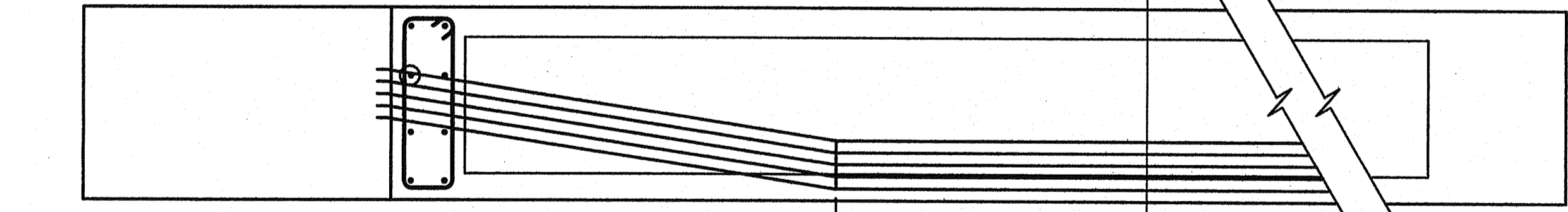
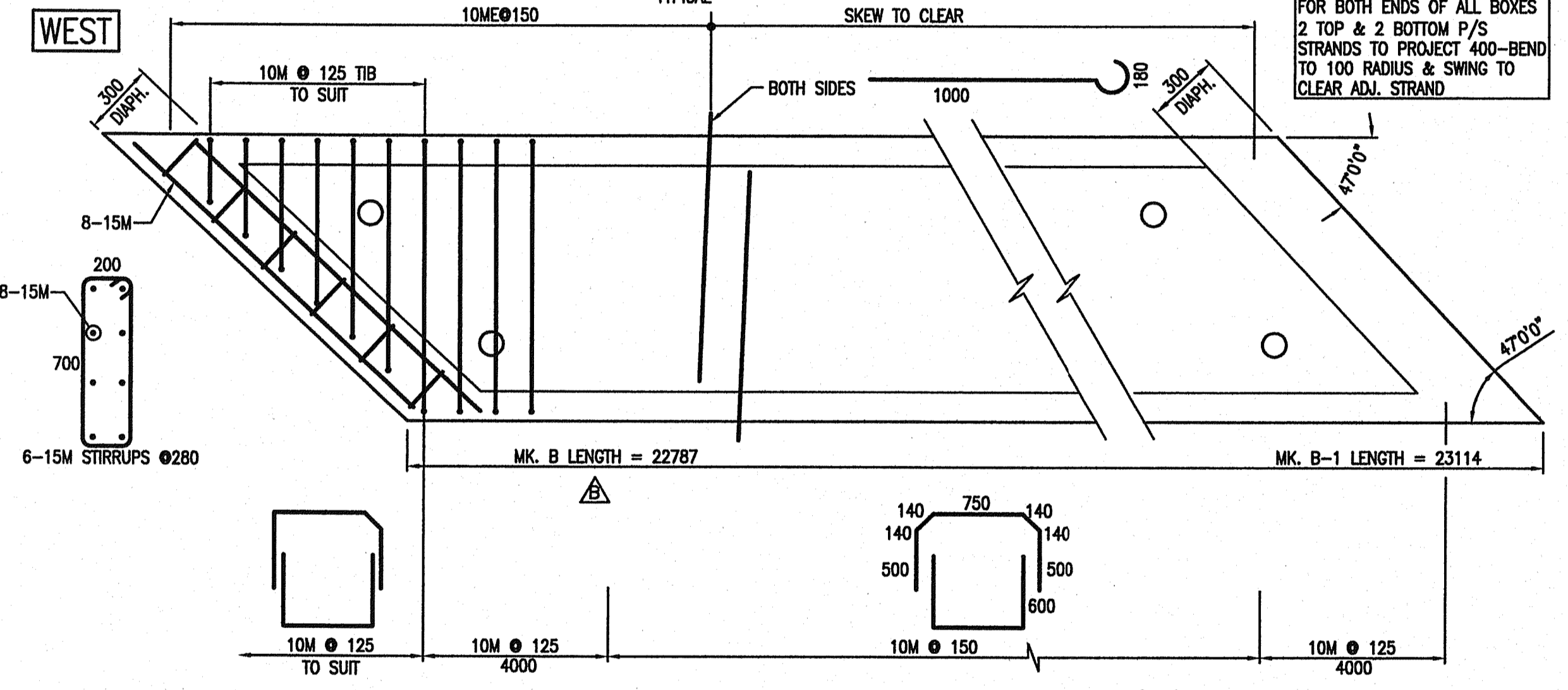
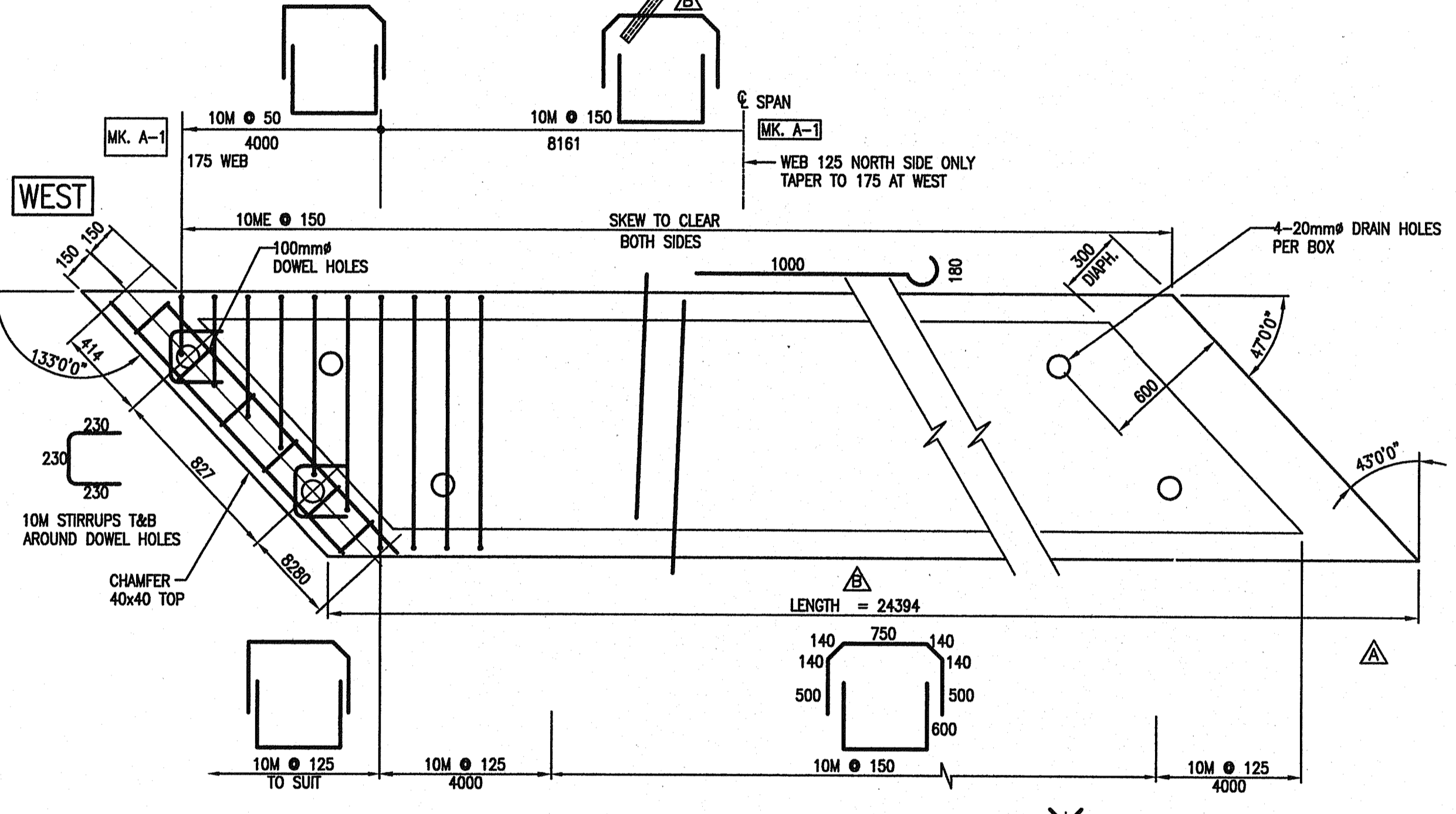
1. EAST ABUTMENT PARALLEL TO PIER #4.

NOTES:

- DESIGN SPECIFICATION: CAN/CSA-S6-00
- DESIGN LOADS: LIVE LOAD: CL-625  
DEAD LOAD: DESIGNED FOR 100mm WEARING SURFACE
- STRINGERS MANUFACTURED IN ACCORDANCE WITH THE M.O.T SPECIFICATION; MANUFACTURE AND ERECTION OF PRECAST AND PRESTRESSED CONCRETE MEMBERS.
- PRESTRESSING STRANDS 13# (7 WIRE) UNCOATED LOW RELAXATION STRANDS, C.S.A. G279M-1982, 1862 MPa GRADE OR EQUIVALENT. MINIMUM ULTIMATE TENSILE STRENGTH = 184 kN/STRAND. STRAND TENSION IMMEDIATELY BEFORE RELEASE = 138 kN/STRAND.
- CONCRETE: MINIMUM COMPRESSIVE STRENGTH OF CONCRETE AT TIME OF RELEASE OF STRANDS = 35 MPa AT 28 DAYS = 50 MPa AIR-5-7%
- REINFORCING STEEL CONFORMS TO C.S.A. G30.18M GRADE 400R.
- REINFORCING STEEL HAS 35mm MINIMUM COVER UNLESS OTHERWISE NOTED.
- ALL REINFORCING MARKED "ME" IS EPOXY COATED.
- LAP OF BARS FOR SPLICES ARE AS FOLLOWS UNLESS NOTED OTHERWISE:  
10M BARS - 450      15M BARS - 630  
10ME BARS - 600      15ME BARS - 900  
SPLICES ARE STAGGERED.
- BOTTOM EDGES OF STRINGERS ARE CHAMFERED 20mm.
- TOP AND ENDS OF BOX STRINGERS SHALL A SANDBLASTED FINISH.
- THE CONCRETE IMMEDIATELY SURROUNDING ALL LIFTING DEVICES SHALL HAVE A FORMED RECESS 65mm DEEP. THE RECESS SHALL BE THOROUGHLY SANDBLASTED IN THE SHOP. AFTER ERECTION, THE LIFTING DEVICE SHALL BE BURNT OFF AT THE BOTTOM OF THE RECESS AND THE RECESS SHALL BE PATCHED WITH AN APPROVED NON-SHRINK GROUT.



PLAN



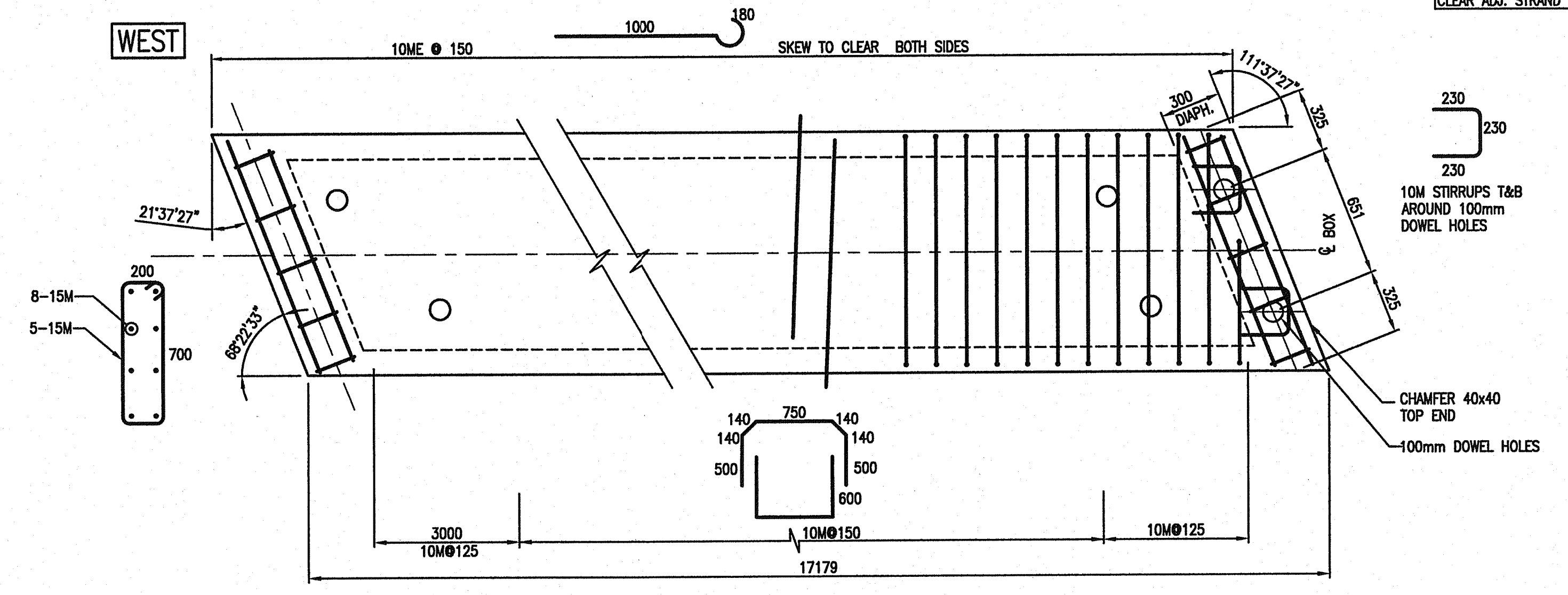
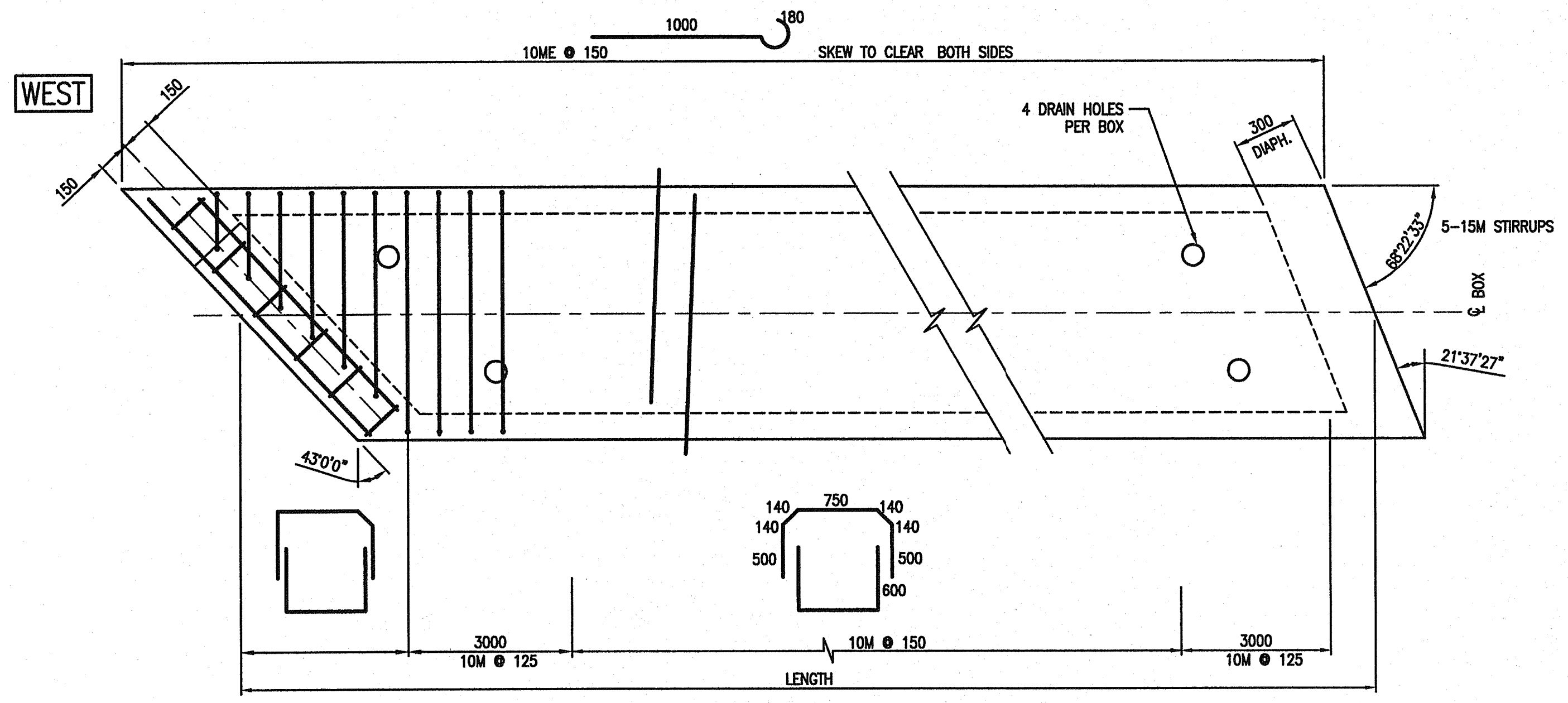
Rev	Date	Description	Initial	SCALE	DESIGNED	CHECKED	DRAWN
J				0 1:200 10	AMW	SL	KDW
I							
H							
G							
F							
E							
D							
C	AUG 15/07	AS CONSTRUCTED	LLP				
B	JUN 02/05	DIMENSIONS, MSE WALLS & MK. D STRINGERS IN PLAN	HS	MAY 19/05	ISSUED FOR CONSTRUCTION		KDW
A	MAY 19/05	DRAIN HOLES	KDW	MAR 16/05	ISSUED FOR TENDER		KDW

City of Abbotsford

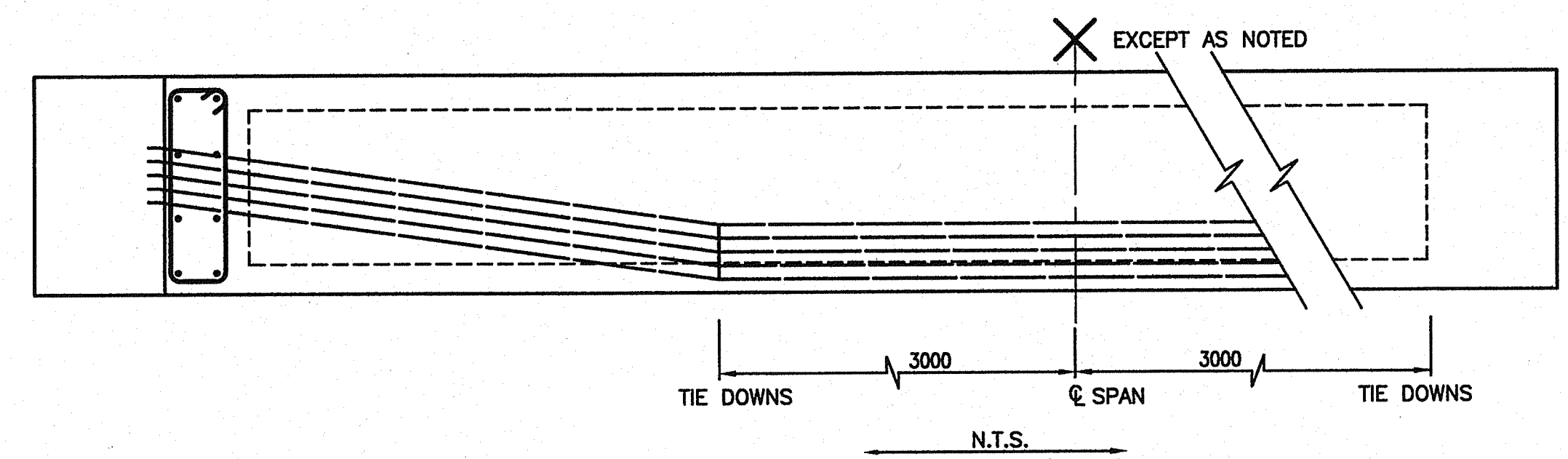
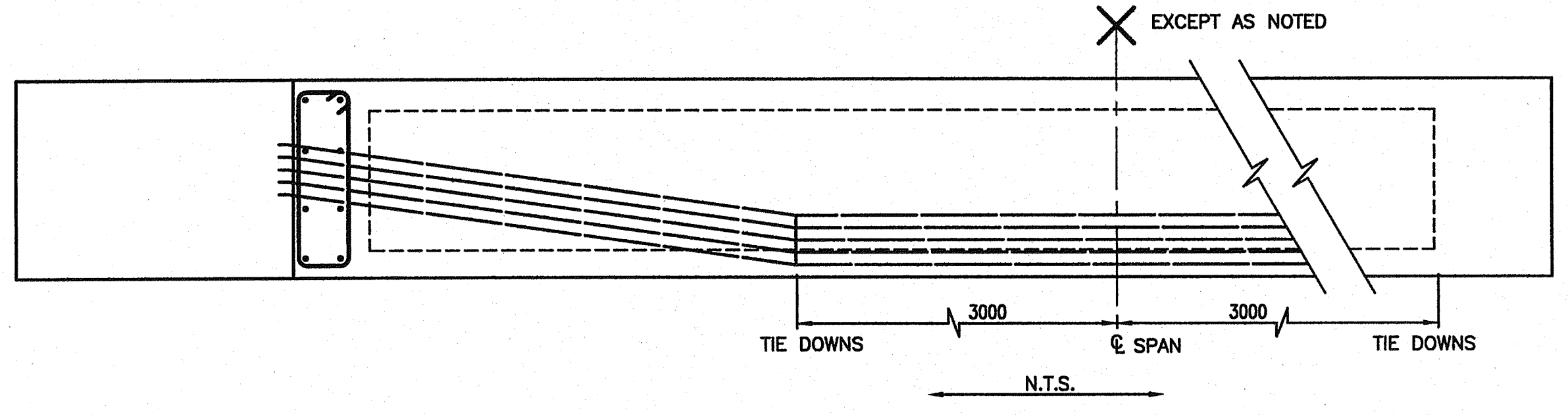
MINISTRY OF TRANSPORTATION  
SOUTH COAST REGION

**FRASER HIGHWAY EAST UNDERPASS**  
**PRESTRESSED CONCRETE BOX STRINGERS**  
**SHEET 1 OF 2**      601846

FILE No. 2111-02072-0      REGION 1      DRAWING No. 1554E-208



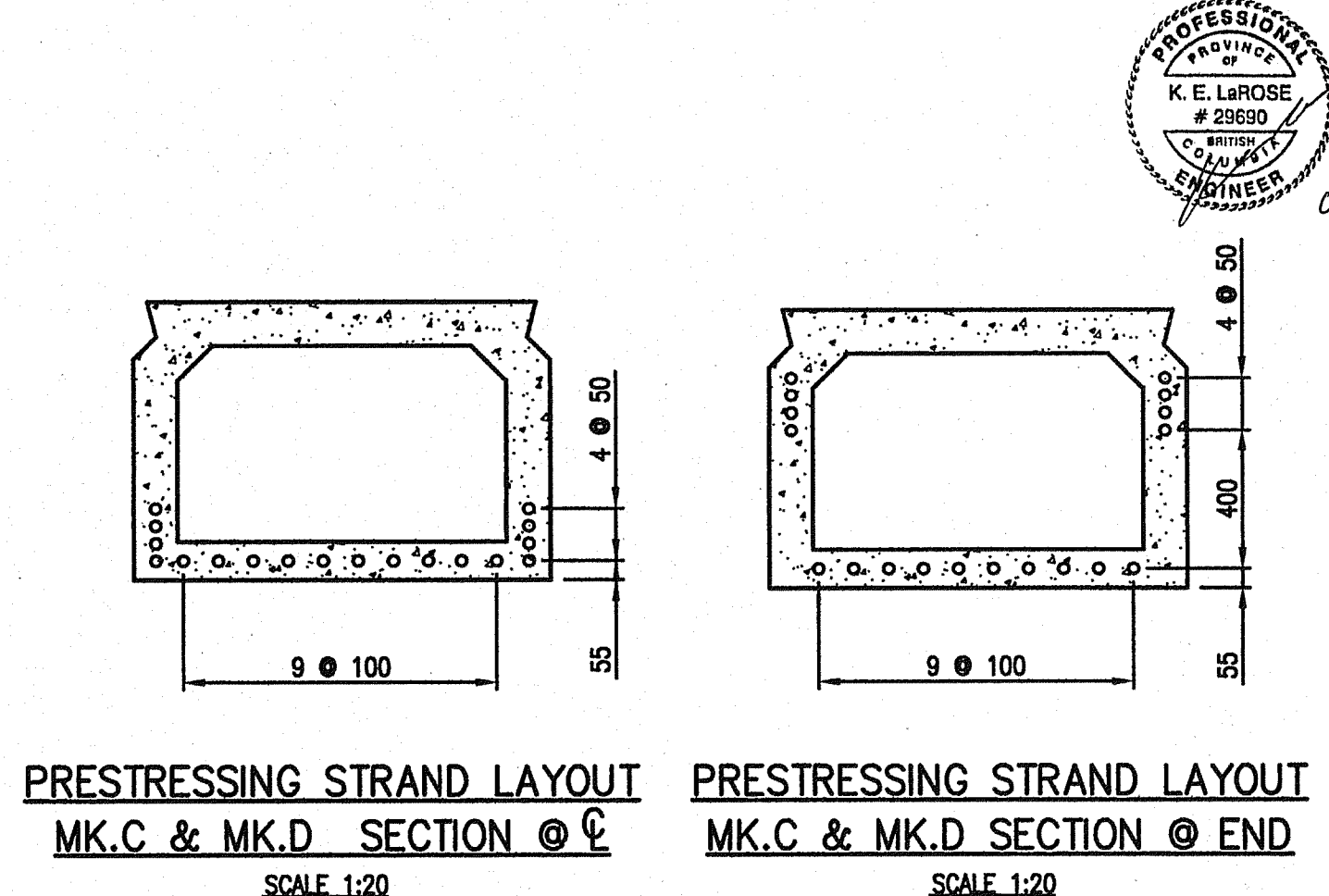
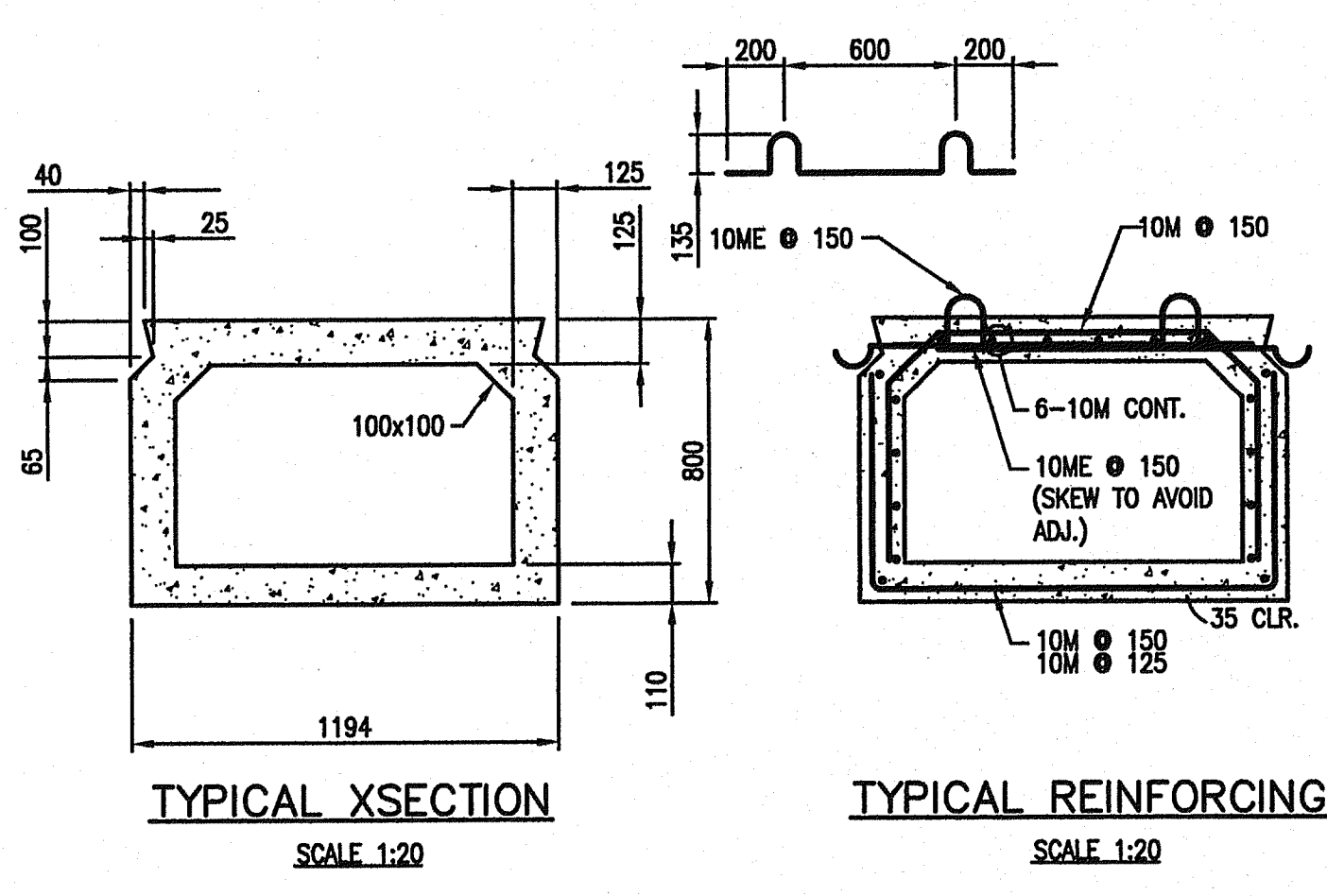
NOTE:  
2 TOP & 2 BOTTOM P/S STRANDS TO PROJECT 400-BEND TO 100 RADIUS & SWING TO CLEAR ADJ. STRAND



MK. C - 9 REQ'D

MK. D - 9 REQ'D

MK. C DETAILS			
MK.	LENGTH	STRANDS	
		STR.	DRAPE
C-1	22.964	16	10
C-2	22.315	16	10
C-3	21.666	16	10
C-4	21.018	16	10
C-5	20.369	14	10
C-6	19.720	14	10
C-7	19.072	12	10
C-8	18.423	10	10
C-9	17.774	10	10



Rev	Date	Description	Initial	SCALE
J				DESIGNED: AAW DATE: JULY 2004
I				CHECKED: SL DATE: JULY 2004
H				DRAWN: KDW DATE: JULY 2004
G				
F				
E				
D				
C				
B				
A	AUG 15/07	AS CONSTRUCTED	LLP	MAY 19/05 ISSUED FOR CONSTRUCTION KDW
				MAR 16/05 ISSUED FOR TENDER KDW
REVISIONS				ISSUE RECORD

City of Abbotsford

BRITISH COLUMBIA

MINISTRY OF TRANSPORTATION SOUTH COAST REGION

FRASER HIGHWAY EAST UNDERPASS  
PRESTRESSED CONCRETE BOX STRINGERS  
SHEET 2 OF 2

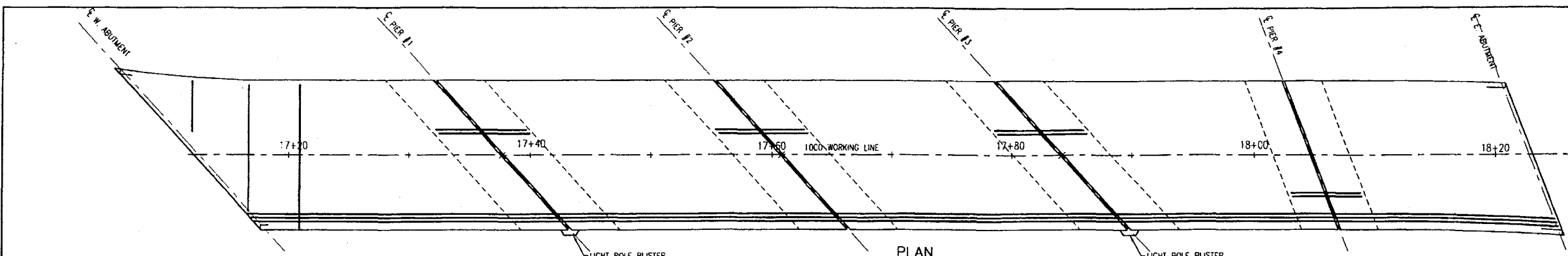
FILE No. 2111-02072-0

McElhanney

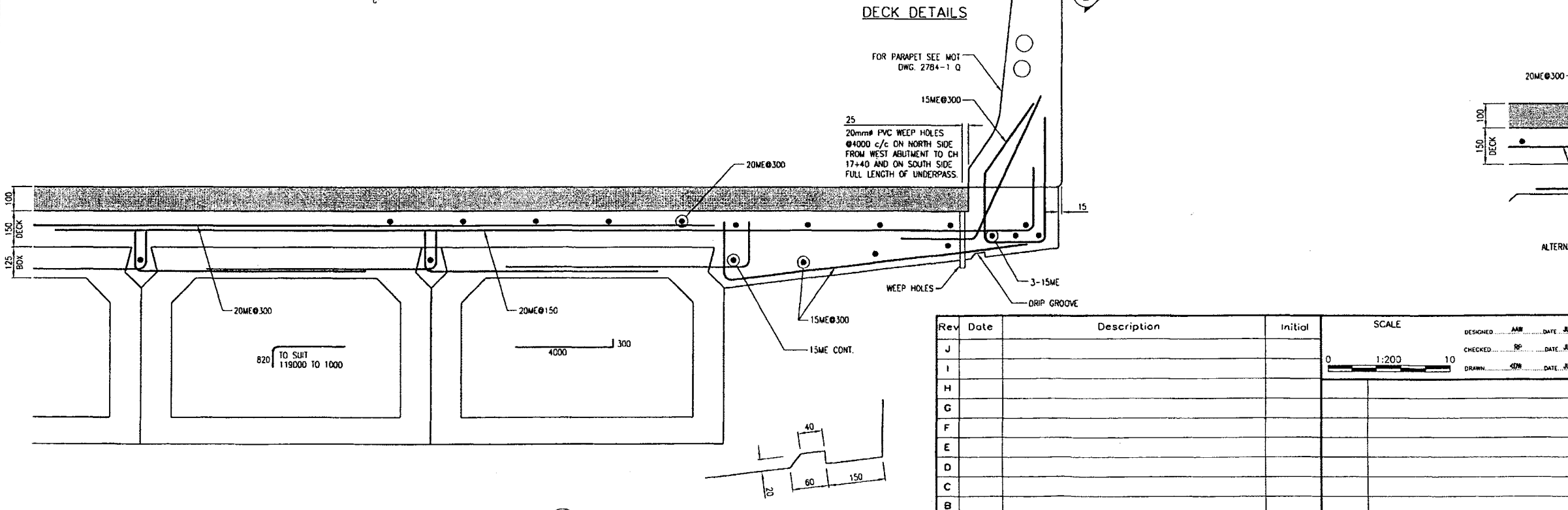
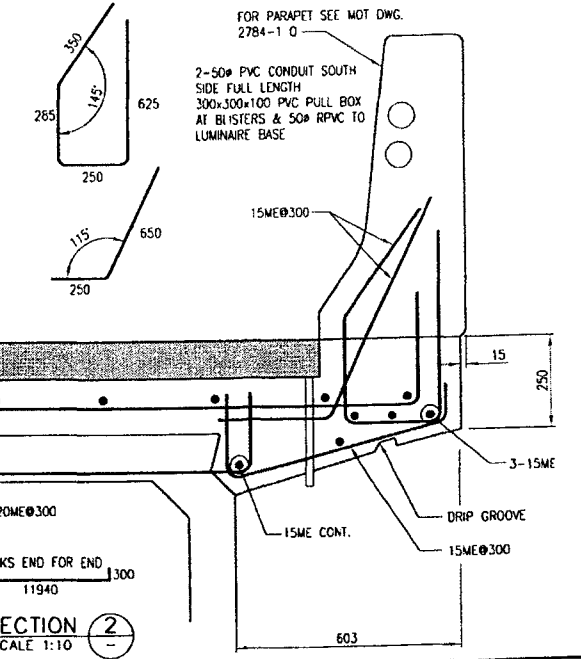
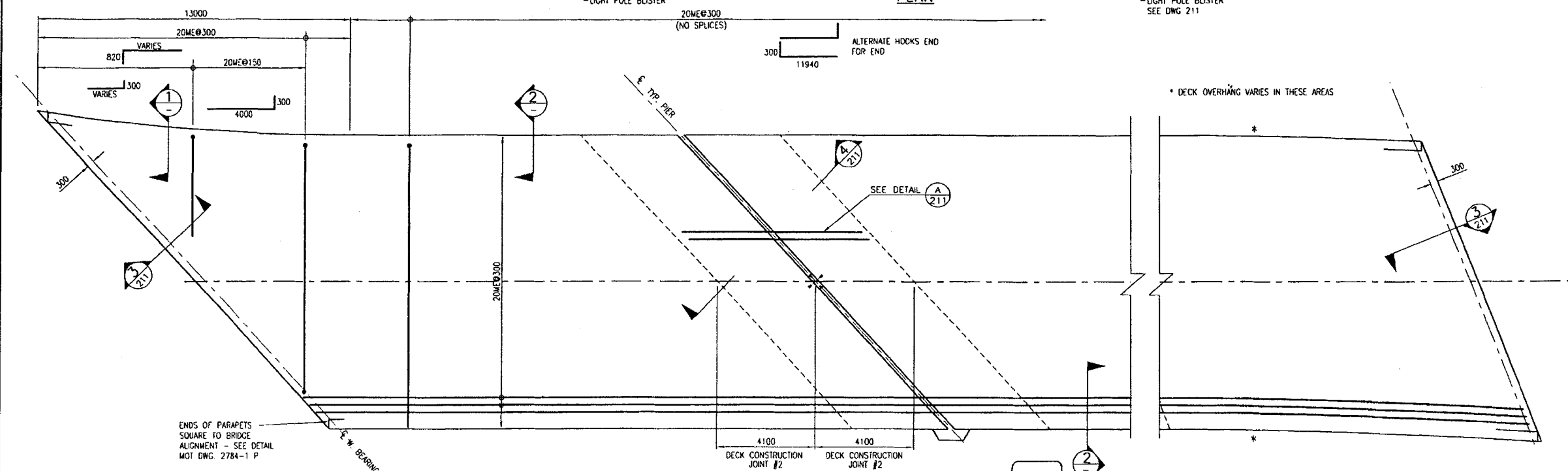
REGION 1

DRAWING No. 1554E-209

601845



- DECK NOTES:**
- ALL CONCRETE SHALL BE  
 $f'_c = 35 \text{ MPa @ 28 DAYS}$   
 AIR 5-7% w/c 0.45
  - REINFORCING STEEL SHALL BE  
 CSA G.30 18M GRADE 400R.  
 ME = EPOXY COATED
  - LAPS OF RE BARS, 50% STAGGERED, TO BE  
 10ME = 450  
 15ME = 650  
 20ME = 750
  - SCREEDS FOR DECK SHALL BE SET TO GIVE A UNIFORM GRADE FROM END TO END OF THE BRIDGE AND TO ACCOMMODATE HOOGING OF THE STRINGERS WHICH IS TO BE MEASURED IN THE FIELD.
  - SEQUENCE OF CONCRETE PLACEMENT:  
 THOROUGHLY CLEAN TOPS OF BOXES BEFORE PLACING DECK CONCRETE.  
 ALL CONCRETE BETWEEN BOX ENDS TO CONSTRUCTION JOINT #1  
 ALL SHEAR KEYS BETWEEN ADJACENT BOXES, 12mm AGG.  $f'_c = 35 \text{ MPa}$   
 ALL CONCRETE BETWEEN BOX ENDS TO CONSTRUCTION JOINT #1  
 DELAY TO  $f'_c = 20 \text{ MPa}$   
 ALL DECK ON SPANS TO JOINT #2  
 DELAY ONE DAY MINIMUM  
 COMPLETE DECK OVER PIERS - DECK FINISH TO BE "STEEL FLOAT"
- PARAPETS TO BE FORMED AND CONCRETE PLACED AFTER ROADWAY SLAB HAS ATTAINED A MINIMUM COMPRESSIVE STRENGTH OF 25 MPa
- ELASTOMERIC BEARINGS TO BE AS PER CSA S6-00 CL. 11.6.6
  - FOR ELECTRICAL DETAILS FOR LIGHTING SEE DRAWING No. R1-02072-E050 & DRAWING No. R1-02072-E051



Rev	Date	Description	Initial	SCALE	DESIGNED	DATE	CHECKED	DATE	DRAWN	DATE
J				0 1:200 10	AM	JULY 2004	RP	JULY 2004	SD	JULY 2004
I										
H										
G										
F										
E										
D										
C										
B										
A										

City of Abbotsford

MINISTRY OF TRANSPORTATION  
SOUTH COAST REGION

FRASER HIGHWAY EAST UNDERPASS  
DECK  
SHEET 1 OF 2

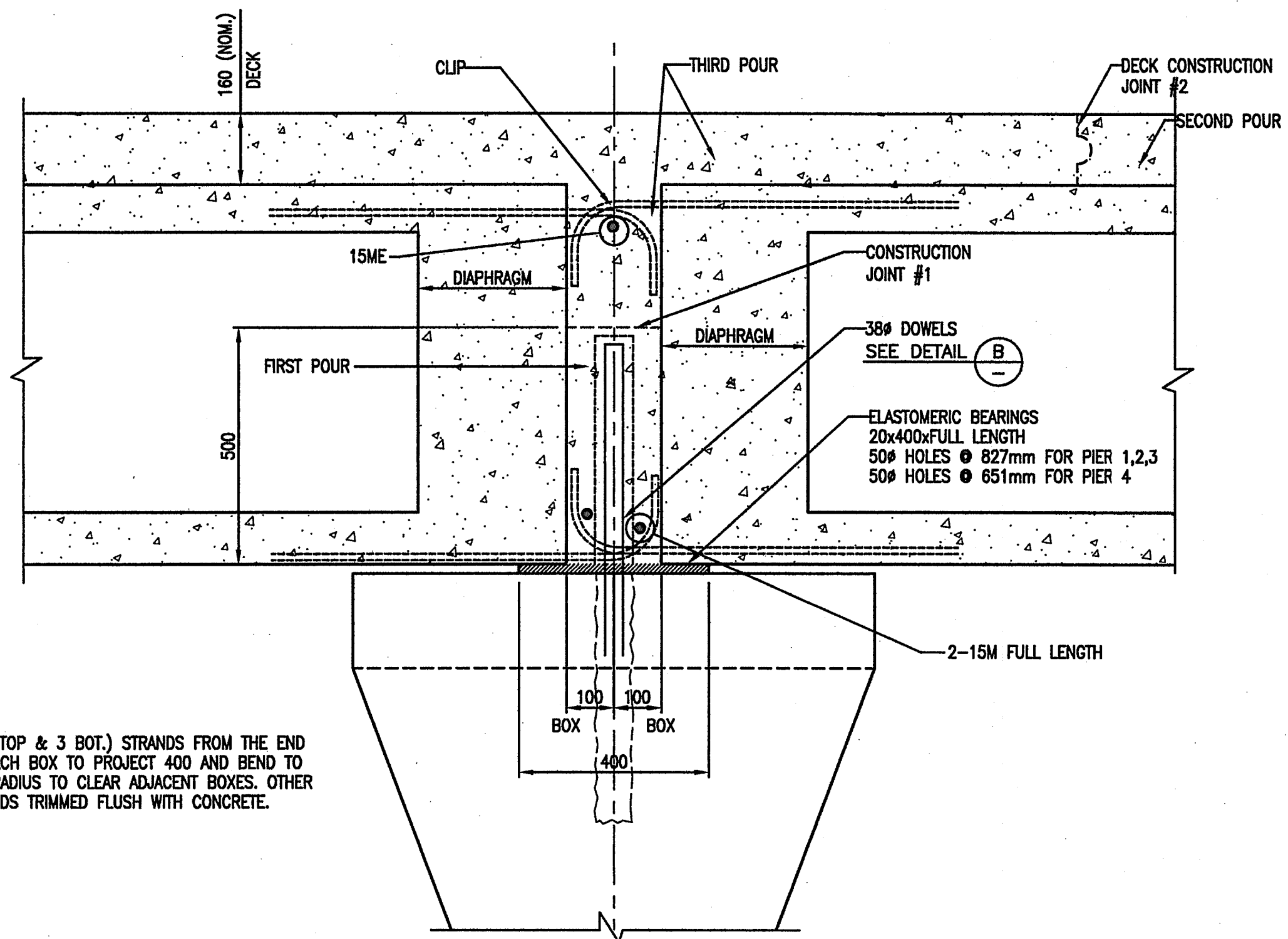
REVISIONS

DATE: MAR 16/05  
ISSUE RECORD: ISSUED FOR TENDER  
Initial: KDW

FILE No. 2111-02072-0  
REGION 1  
McElhanney  
1554E-210

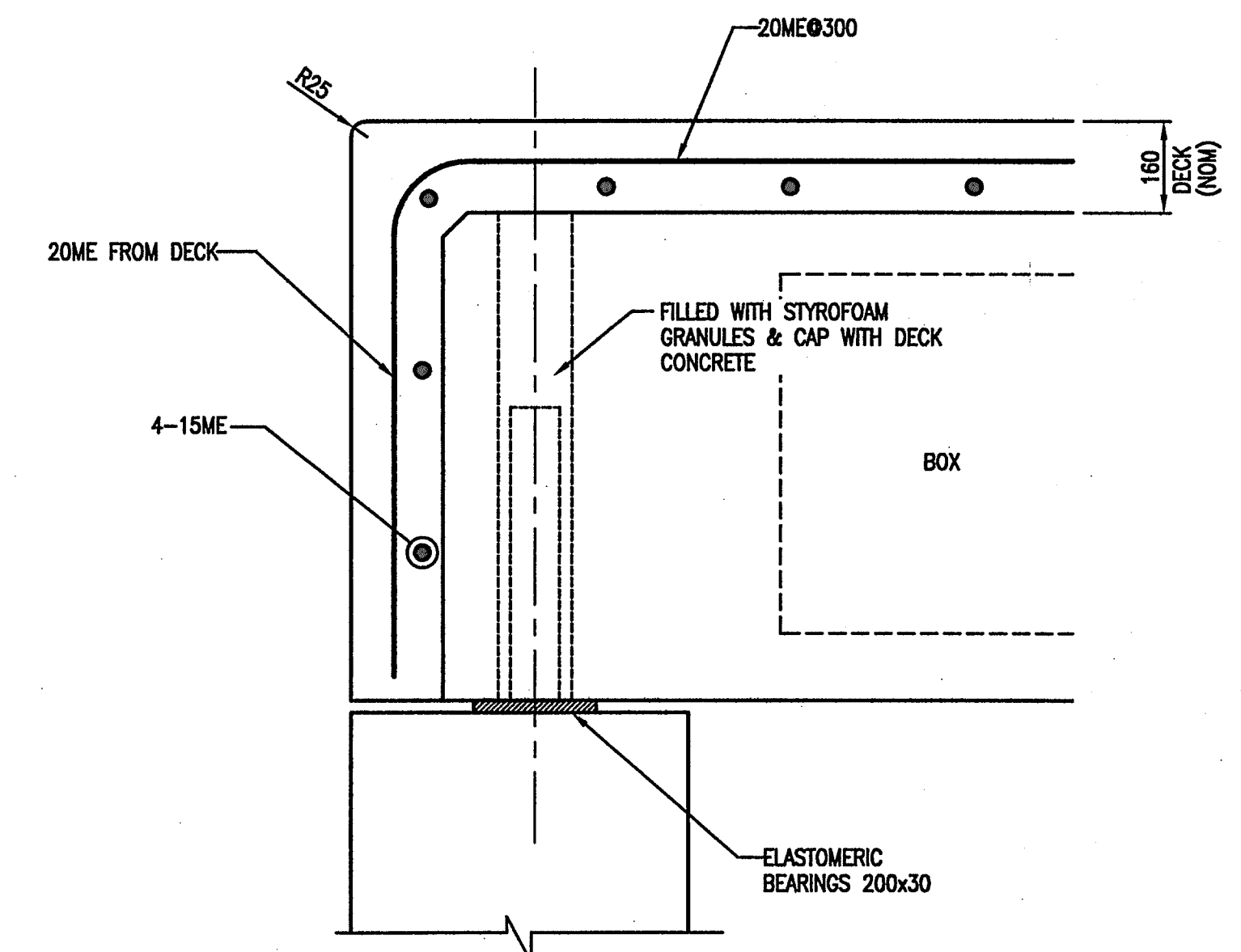
SECTION 1  
SCALE 1:10

DRIP GROOVE

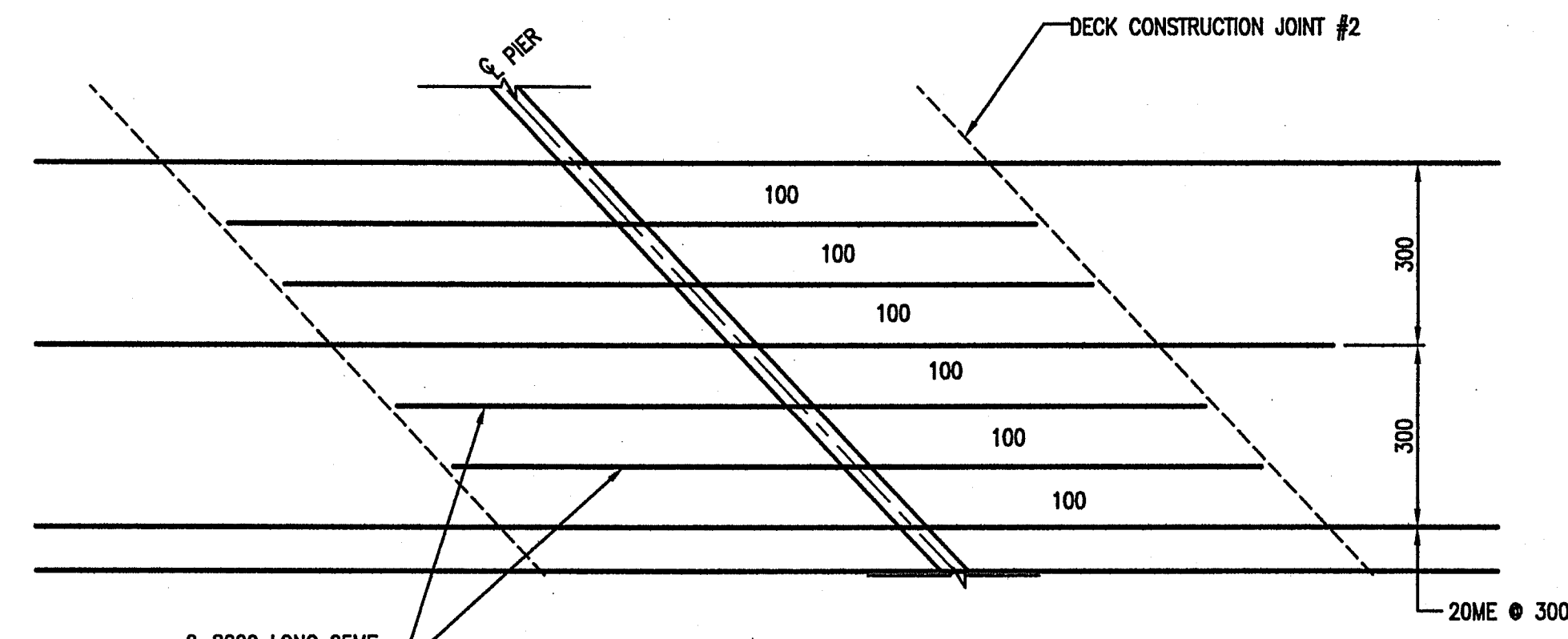


NOTE:  
5 (2 TOP & 3 BOT.) STRANDS FROM THE END OF EACH BOX TO PROJECT 400 AND BEND TO 100 RADIUS TO CLEAR ADJACENT BOXES. OTHER STRANDS TRIMMED FLUSH WITH CONCRETE.

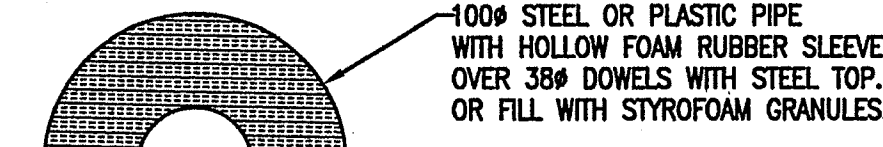
SECTION 4  
SCALE 1:10  
210



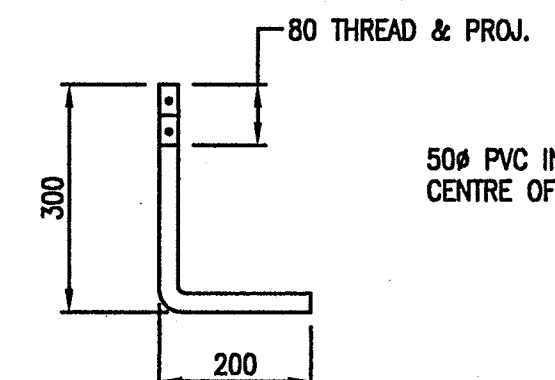
SECTION 3  
SCALE 1:10  
210



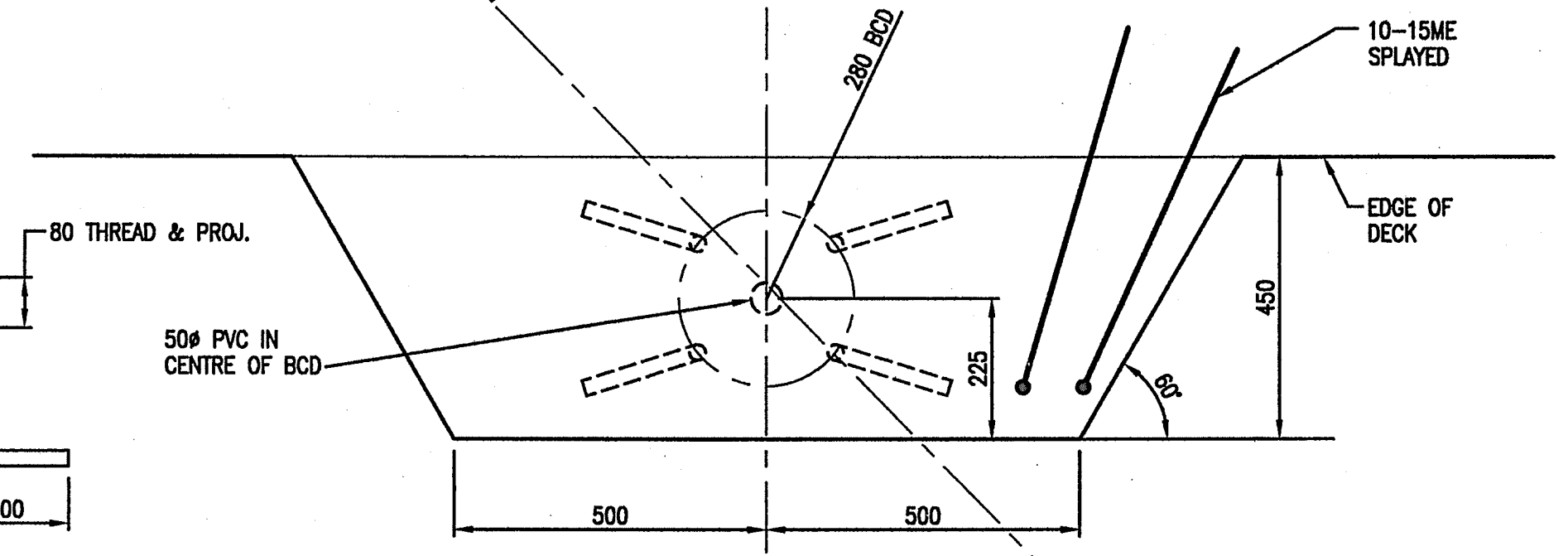
DETAIL A REINFORCEMENT OVER PIERS  
SCALE N.T.S.



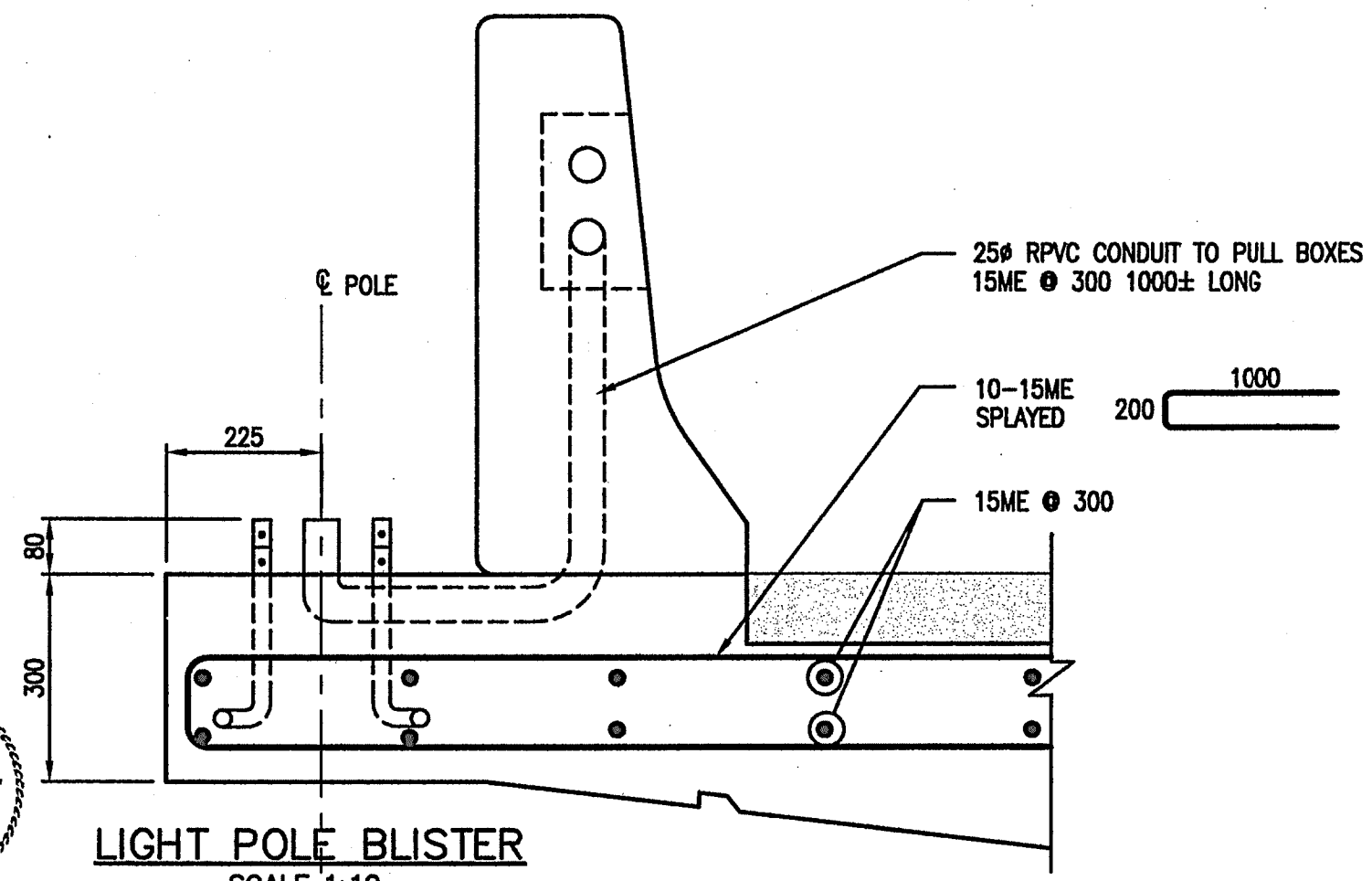
DETAIL B  
SCALE 1:5



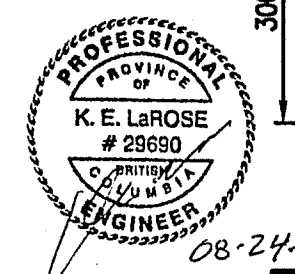
4x25#x500 LG. GALV. AISI/SAE  
4140 ANCHOR BOLTS c/w  
NUTS & WASHERS



PLAN  
SCALE 1:10



LIGHT POLE BLISTER  
SCALE 1:10



Rev	Date	Description	Initial	SCALE	DESIGNED: AAW DATE: JULY 2004	CHECKED: SL DATE: JULY 2004	DRAWN: KDW DATE: JULY 2004
J				0 1:200 10			
I							
H							
G							
F							
E							
D							
C							
B					MAY 19/05	ISSUED FOR CONSTRUCTION	KDW
A	AUG 15/07	AS CONSTRUCTED	LLP	MAR 16/05	ISSUED FOR TENDER		KDW
REVISIONS				Date	ISSUE RECORD	Initial	

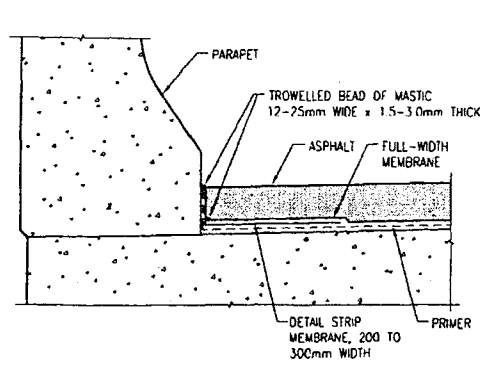
City of Abbotsford

MINISTRY OF TRANSPORTATION  
SOUTH COAST REGION

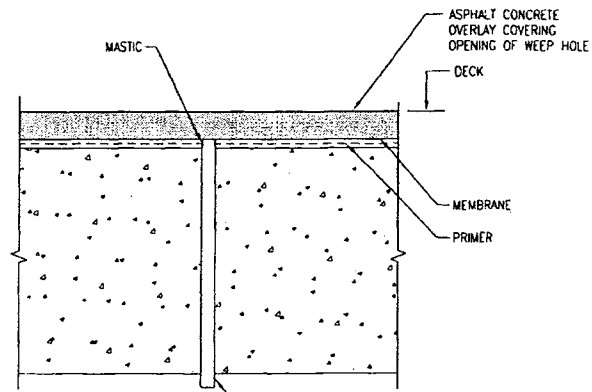
FRASER HIGHWAY EAST UNDERPASS

DECK  
SHEET 2 OF 2  
601847

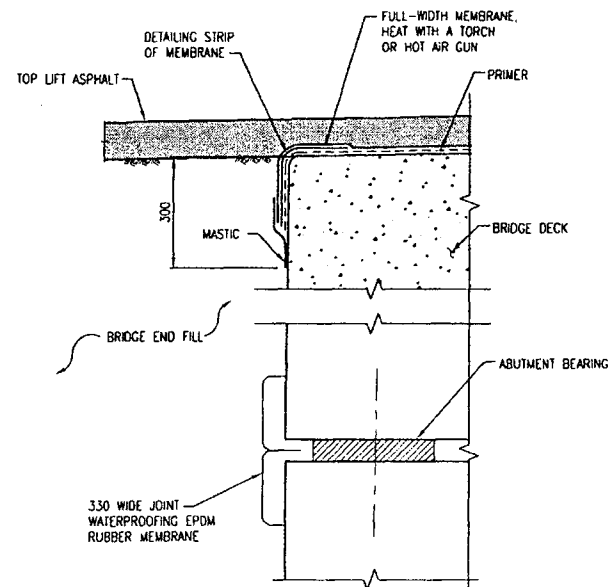
FILE No. 2111-02072-0  
McElhenny  
REGION 1  
DRAWING No. 1554E-211



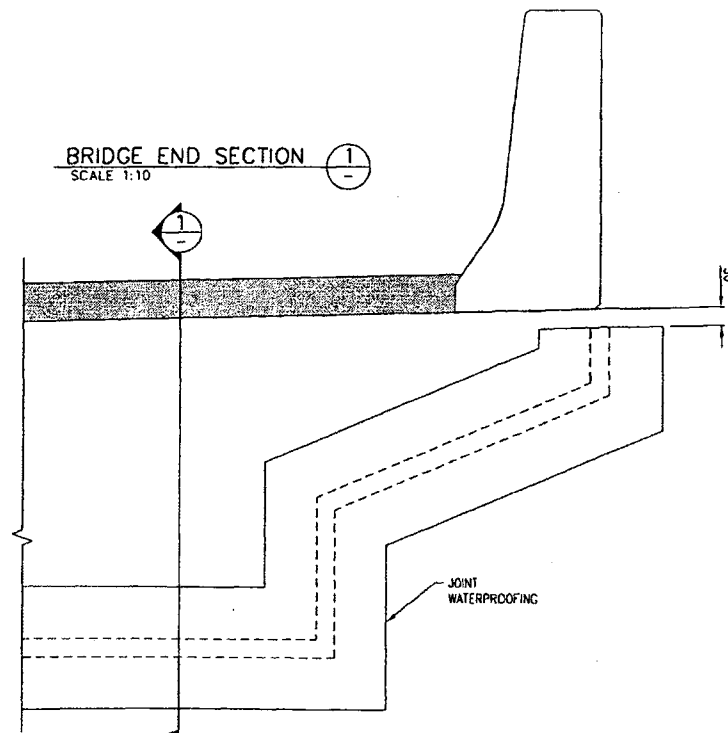
PARAPET MEMBRANE  
SCALE N.T.S.



WEEP HOLE  
SCALE N.T.S.



BRIDGE END SECTION  
SCALE 1:10



ELEVATION  
SCALE 1:10

NOTES:

1. CONTRACTOR TO SUPPLY AND INSTALL AN APPROVED WATERPROOF MEMBRANE AND ASPHALT PAVEMENT OVERLAY IN ACCORDANCE WITH STD. SPEC. SECTION 419.

Rev	Date	Description	Initial	SCALE	DESIGNED	DATE	CHECKED	DATE	DRAWN	DATE
J					AW	JULY 2004	RP	JULY 2004	KDW	JULY 2004
I										
H										
G										
F										
E										
D										
C										
B										
A										
REVISIONS				DATE	ISSUE RECORD	INITIAL				
				MAR 16/05	ISSUED FOR TENDER	KDW				

City of Abbotsford

MINISTRY OF TRANSPORTATION  
SOUTH COAST REGION

**FRASER HIGHWAY EAST UNDERPASS**  
MISCELLANEOUS DETAILS

FILE No. 2111-02072-0 REGION 1 DRAWING No. 1554E-212