

Tritax Symmetry (Hinckley) Limited

HINCKLEY NATIONAL RAIL FREIGHT INTERCHANGE

The Hinckley National Rail Freight Interchange Development Consent Order

Project reference TR050007

M69 Junction 2 Overbridge Structural Record Drawings

Document reference: 2.31

Revision: 01

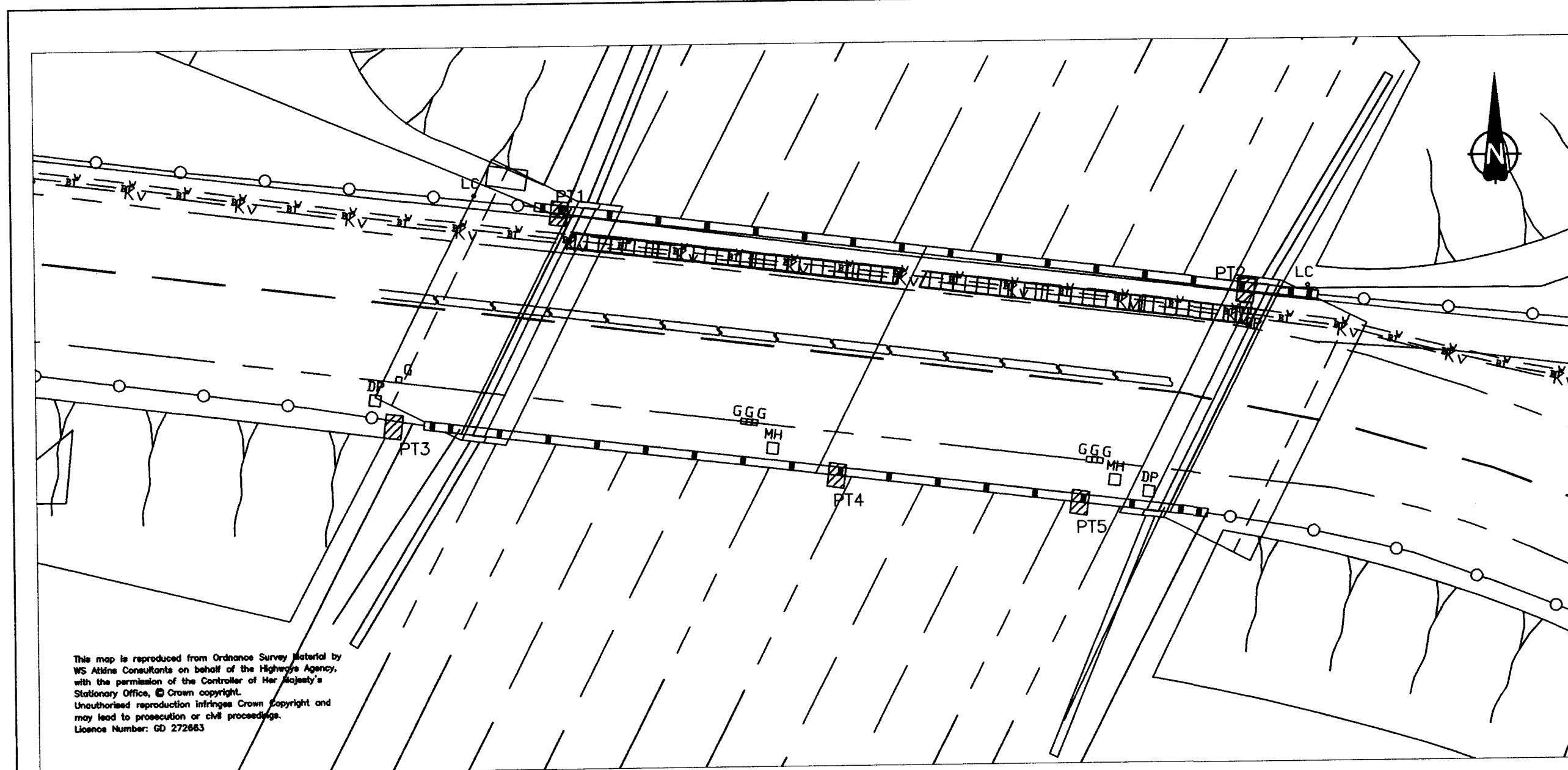
9 February 2024

Planning Act 2008

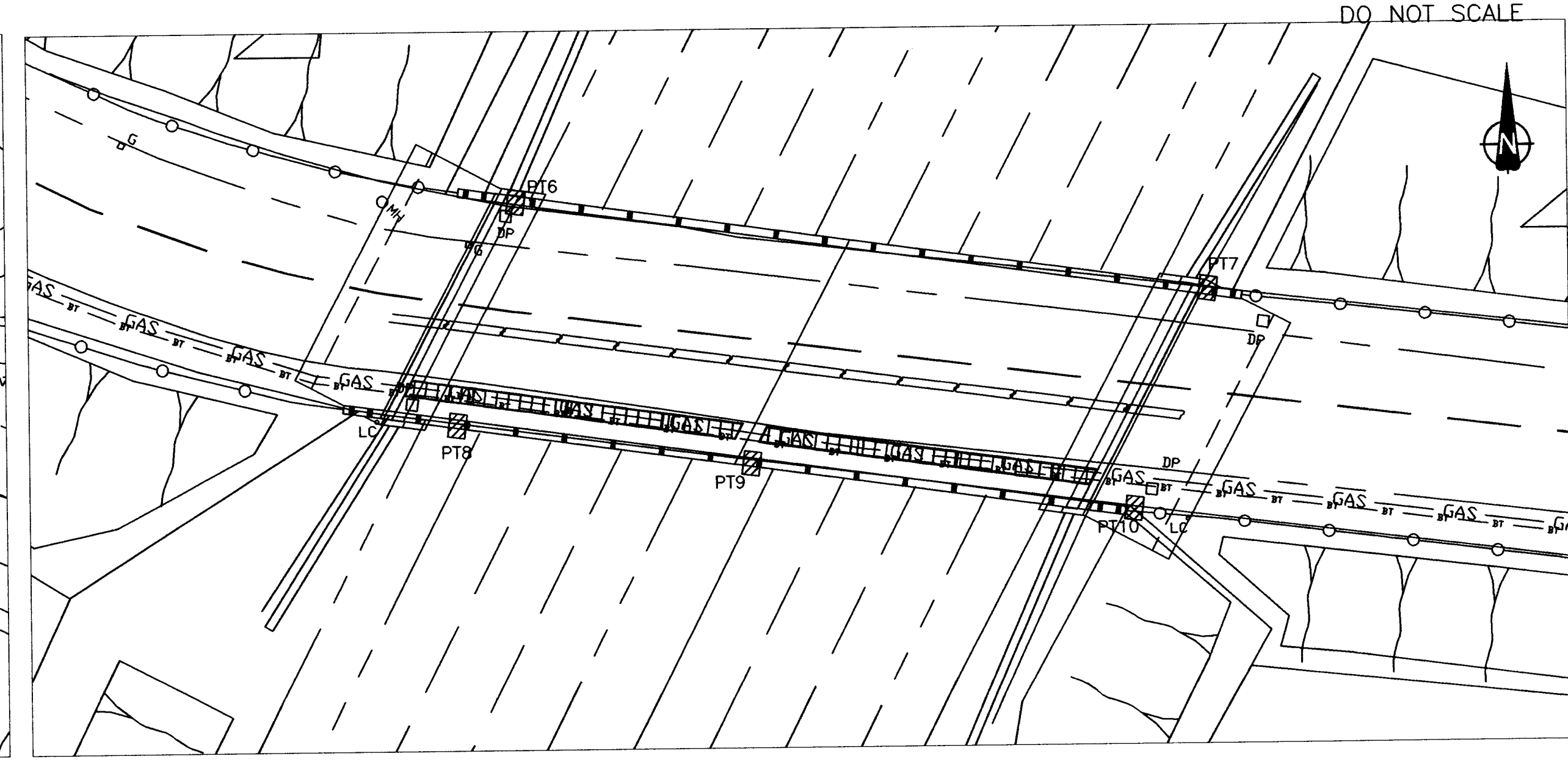
**The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009
Regulation 5(2)(q)**

CONTRACT
DWG

M69/B4669/I/C
11/05007/S.22.104/A



NORTH BRIDGE



SOUTH BRIDGE

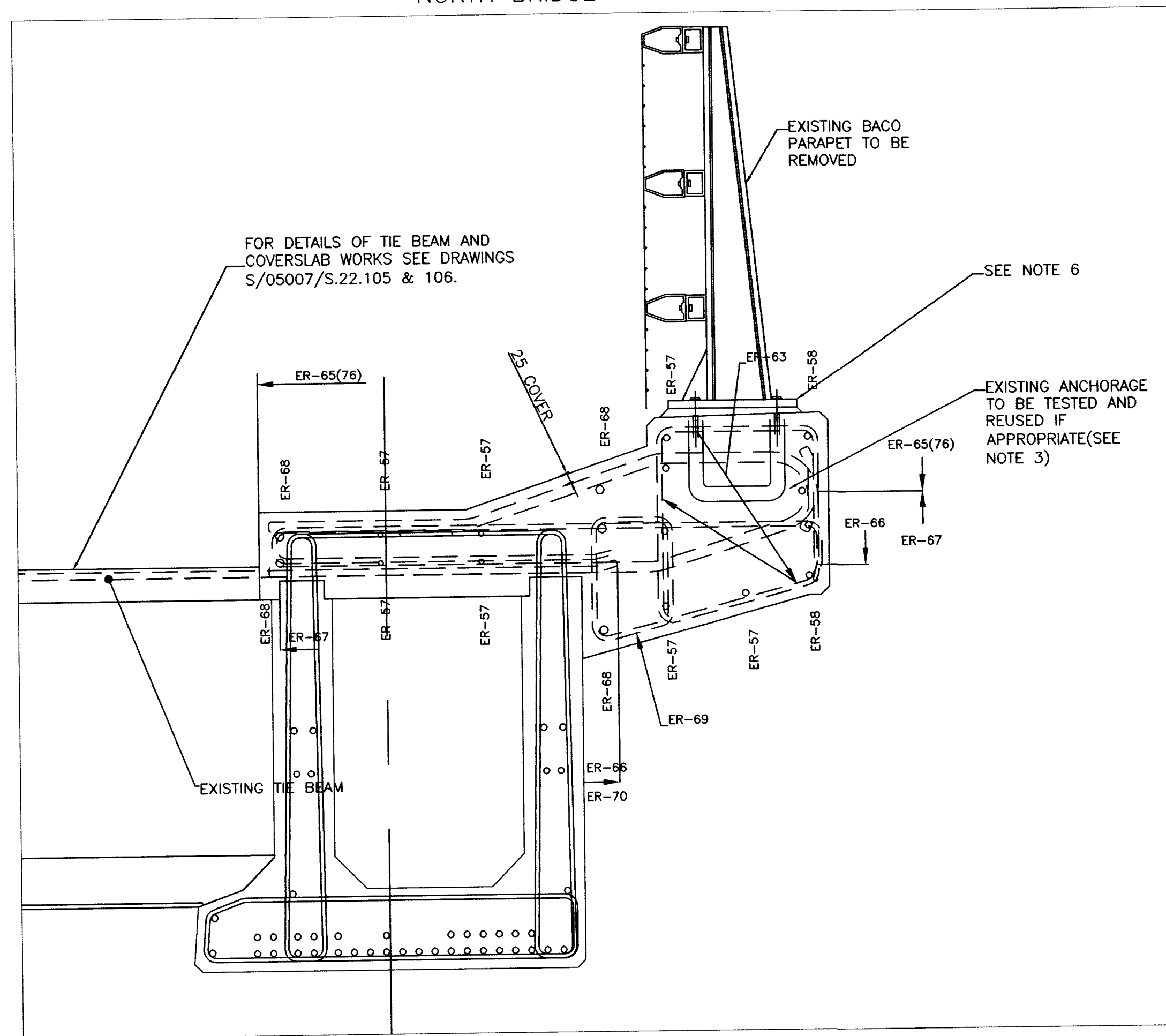
DO NOT SCALE

- NOTE:
- ALL DIMENSIONS IN MM UNLESS OTHERWISE STATED
 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE SPECIFICATION AND OTHER CONTRACT DRAWINGS.
 - THE CONTRACTOR IS TO SUBMIT A METHOD STATEMENT FOR COMPLETING THE WORKS, TO BE AGREED BY THE OVERSEEING ORGANISATION.
 - FOR DETAILS OF TESTING REFER TO SPECIFICATION.
 - THE CONTRACTOR IS TO SUBMIT A METHOD STATEMENT FOR TEMPORARY PROTECTION WORKS.
 - THE BEDDING MORTAR FOR THE PARAPET IS TO BE SUBMITTED TO THE OVERSEEING ORGANISATION FOR APPROVAL.
 - FOR TRAFFIC MANAGEMENT DETAILS REFER CHAPTER 8 OF THE TRAFFIC SIGNS MANUAL AND TO DRAWINGS 11/05007/S22.109&110.

- KEY:
- PT1 INITIAL POST TEST LOCATION
 - G GULLEY
 - DP DRAWPIT
 - MH or MH DRAINAGE CHAMBER

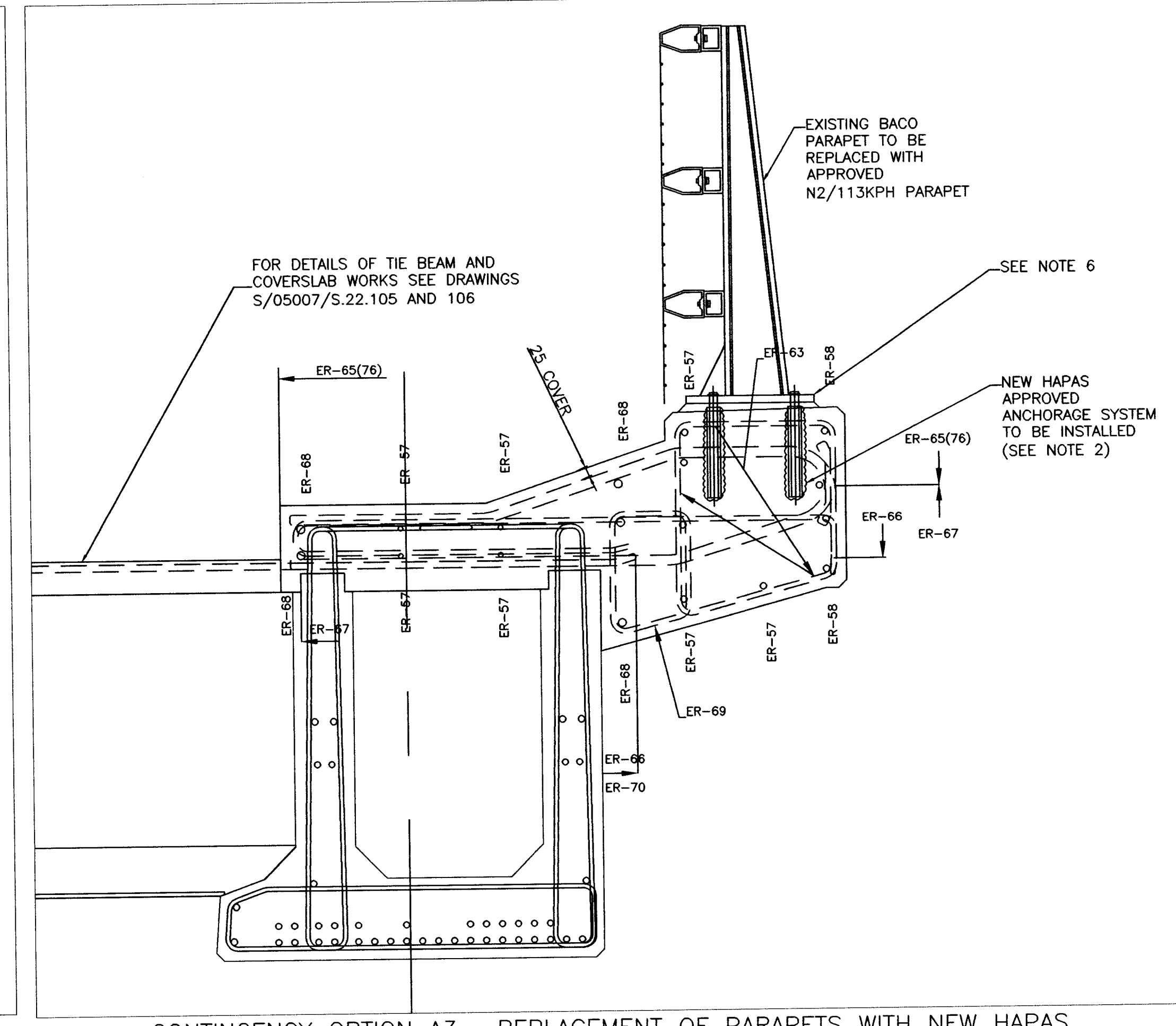
- EXISTING SAFETY FENCE
- BT APPARATUS
- EAST MIDLANDS ELECTRICITY
- TRANSO
- SEVERN TRENT WATER

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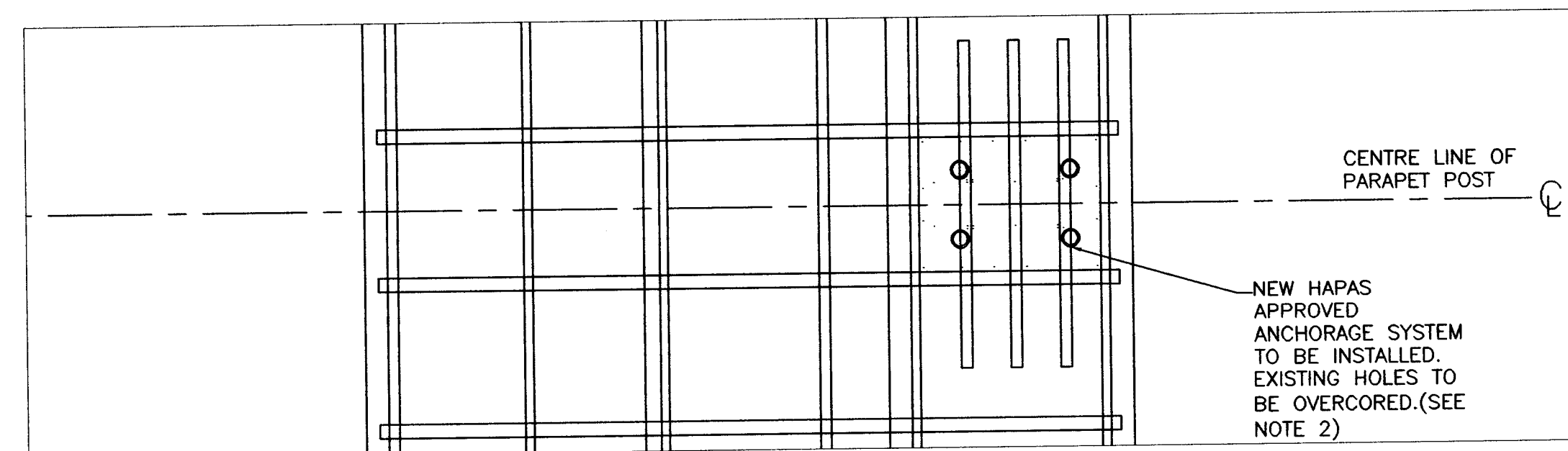
OPTION A2 : REPLACEMENT OF PARAPET USING EXISTING ANCHORAGE
SCALE 1:10

(NOTE: IF EXISTING PARAPET ANCHORAGE IS FOUND TO BE INSUFFICIENT CONTINGENCY OPTION A3: REPLACEMENT OF PARAPETS WITH NEW HAPAS APPROVED RESIN FIXED ANCHORAGES TO BE USED)



CONTINGENCY OPTION A3 : REPLACEMENT OF PARAPETS WITH NEW HAPAS APPROVED RESIN FIXED ANCHORAGES
SCALE 1:10

(NOTE: IF EXISTING PARAPETS ANCHORAGE IS SUFFICIENT THIS OPTION WILL NOT BE USED)



PLAN: OPTION A3
SCALE 1:10

DATE 6/2/04

Rev	Description	By	Chk'd	App	Date
A	ADDITIONAL DETAILS AND REVISED NOTES	BH	MS	KS	Nov. 03

HA HIGHWAYS
AGENCY

OPTIMA
INFRASTRUCTURE MANAGEMENT

Goleen Close, Amington, Tamworth, Staffordshire, B77 4AS
Tel: 01827 313 313 Fax: 01827 313 113 e-mail: enquiries@optima-tn.com

Project AREA 11 MAC CONTRACT M69/A5070 (NOW B4669) INTERCHANGE NORTH & SOUTH BRIDGES
Title PARAPET REPLACEMENT WORKS

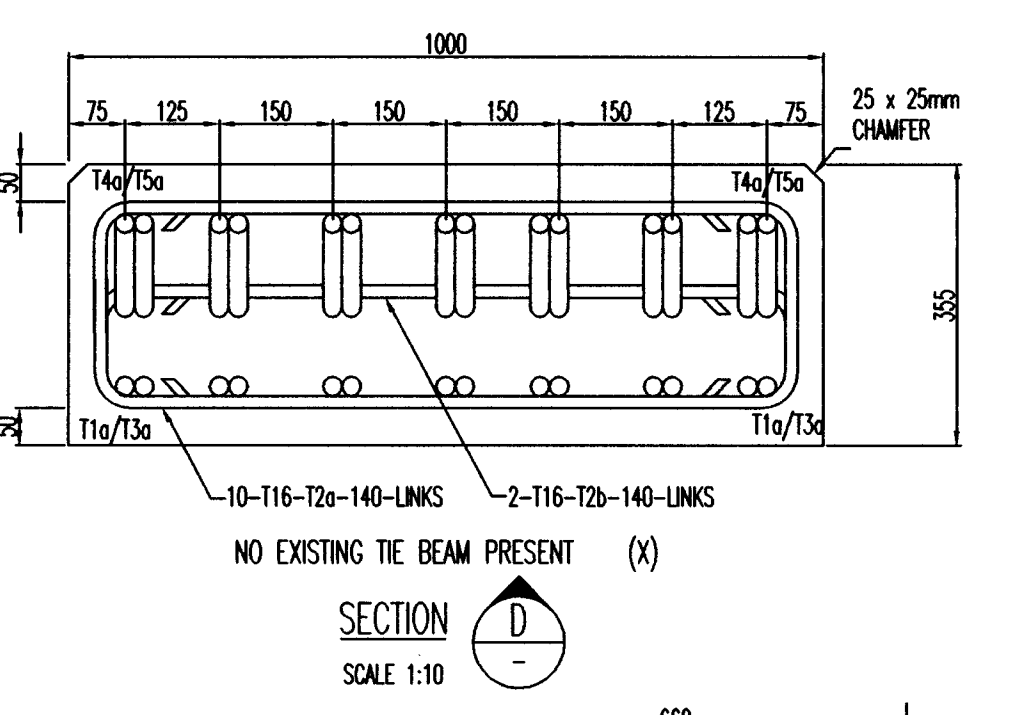
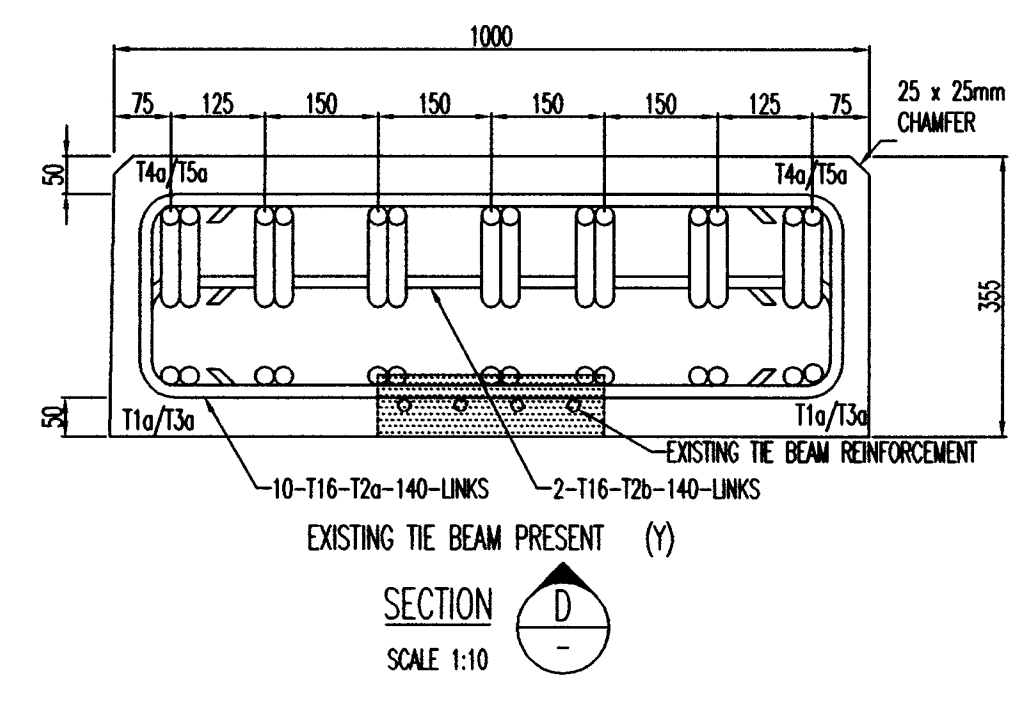
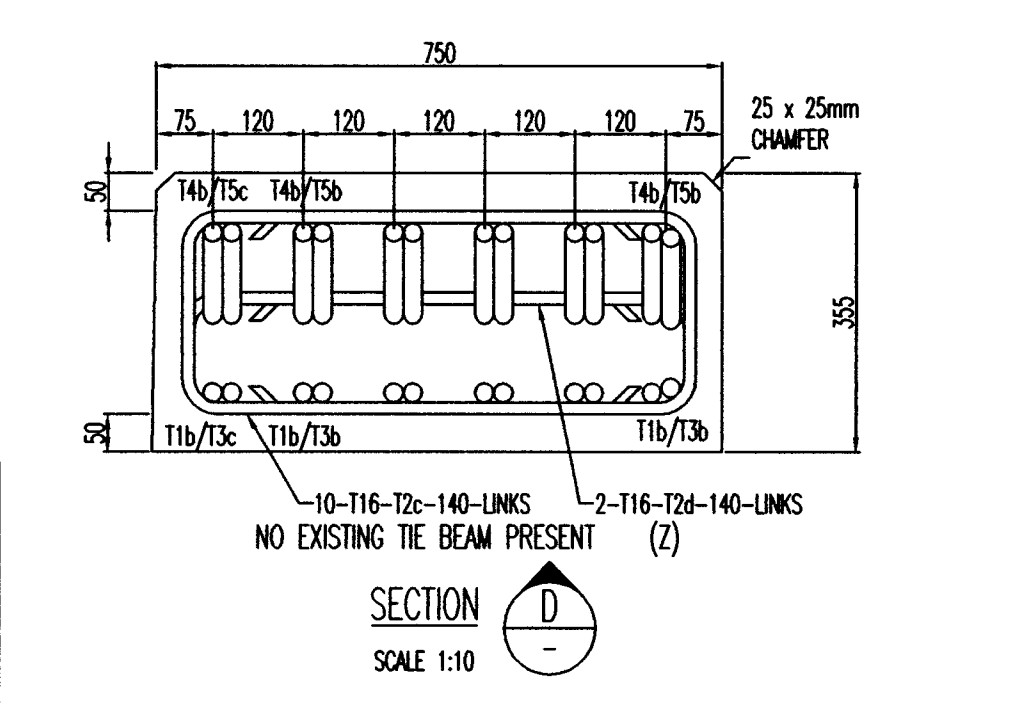
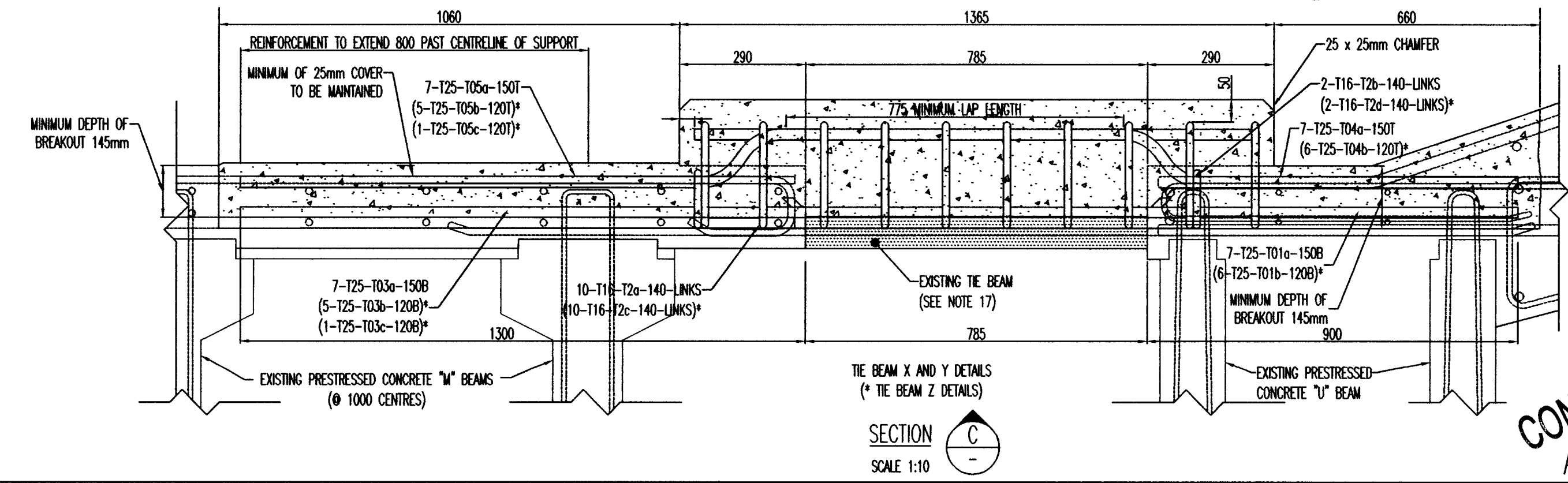
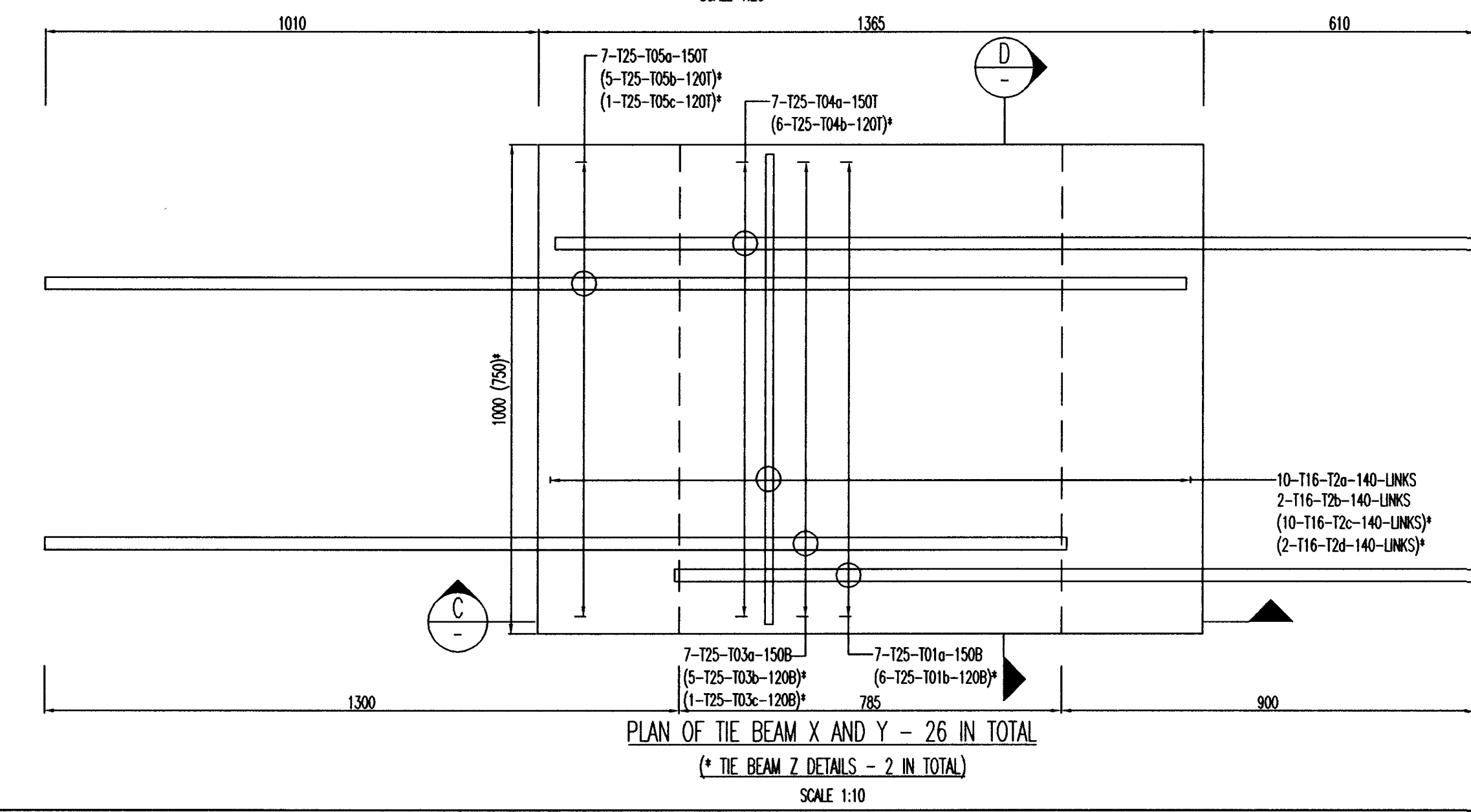
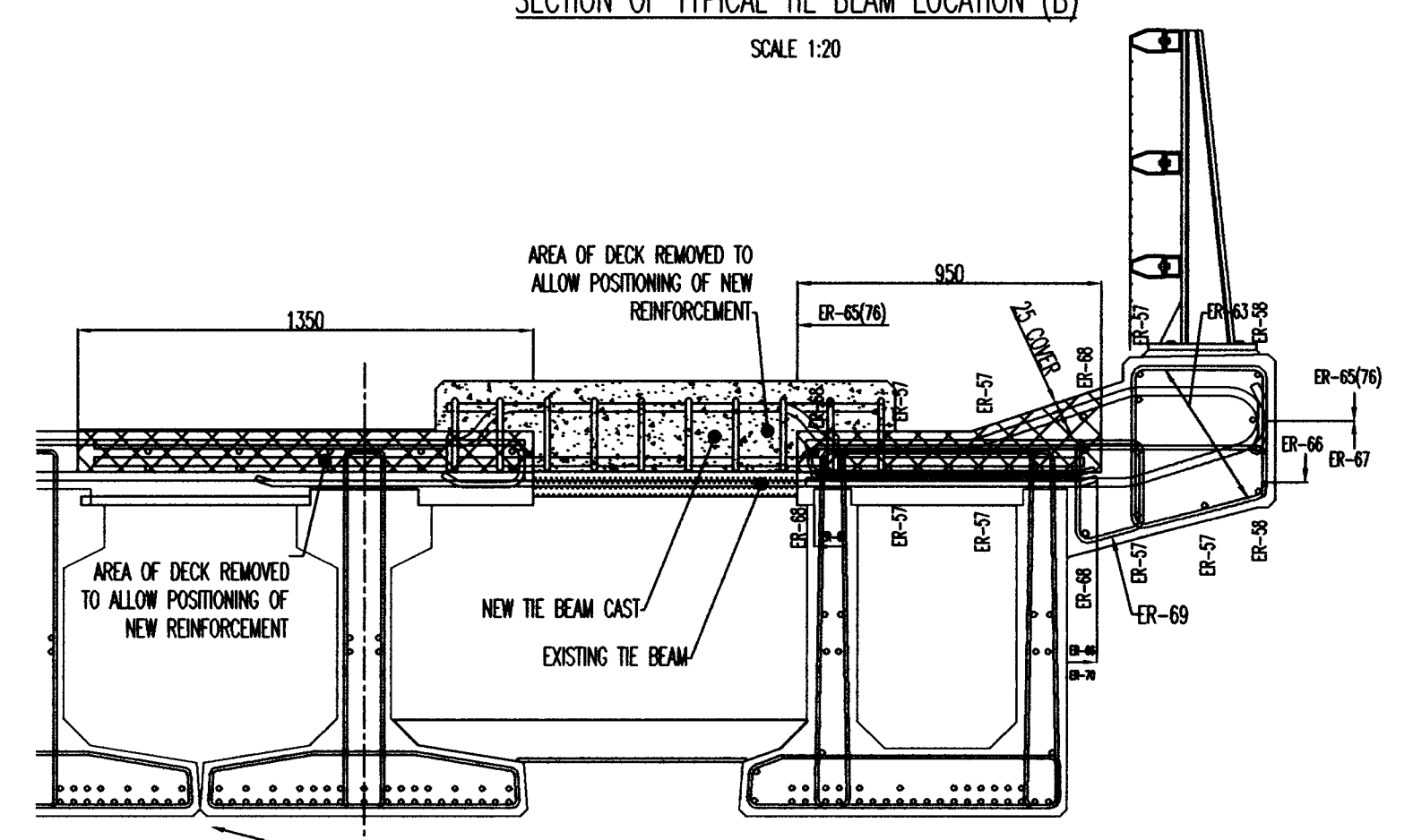
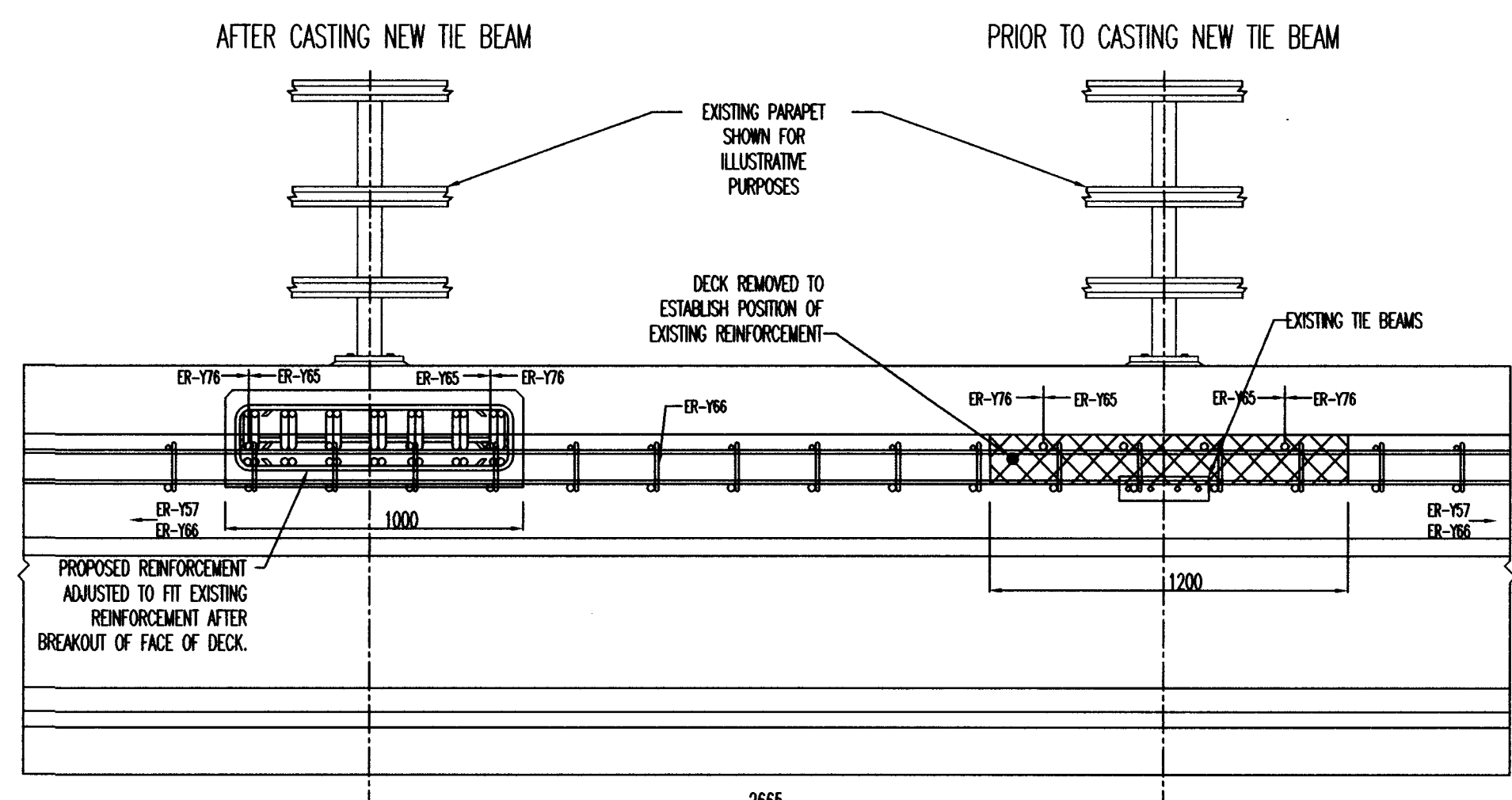
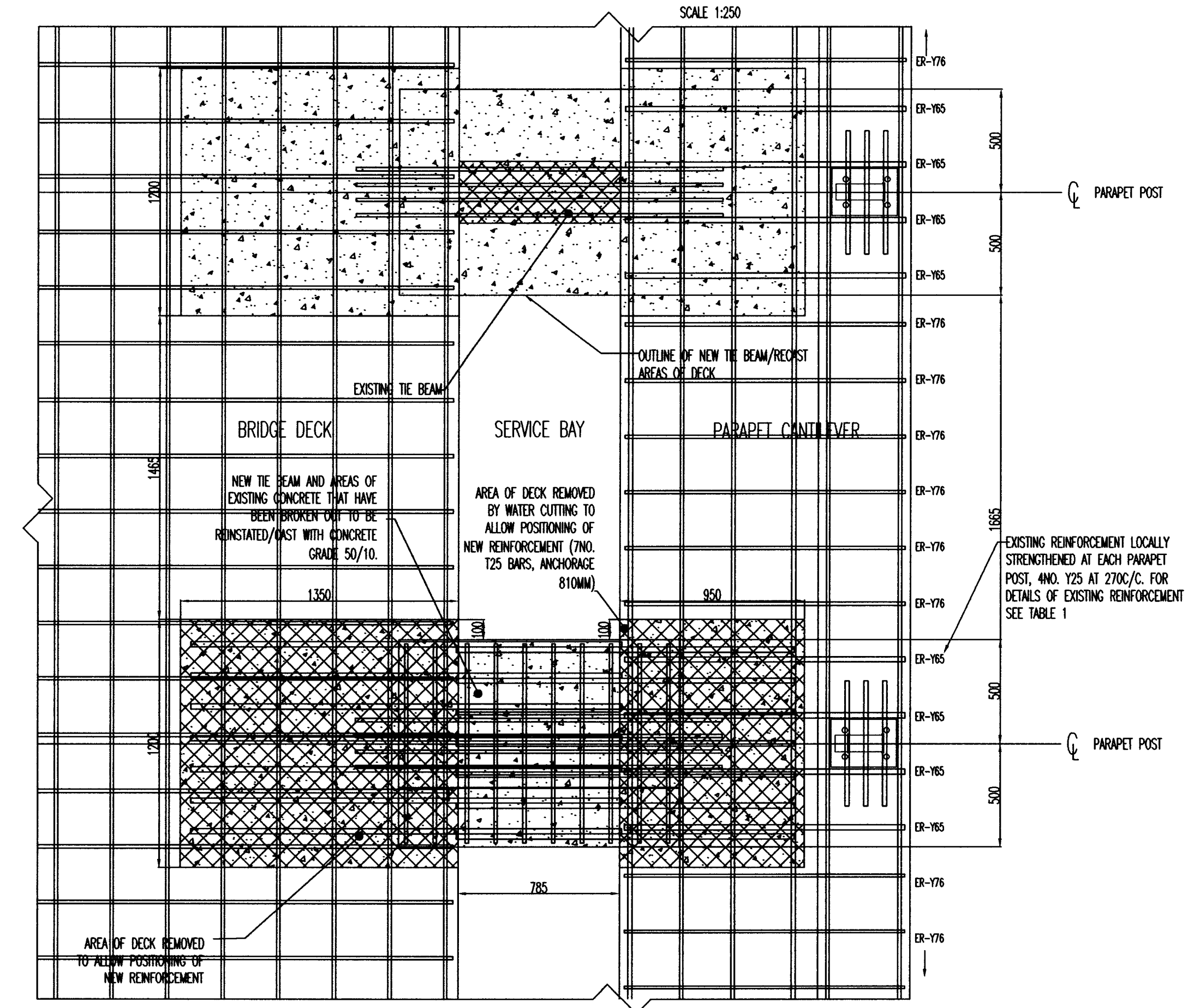
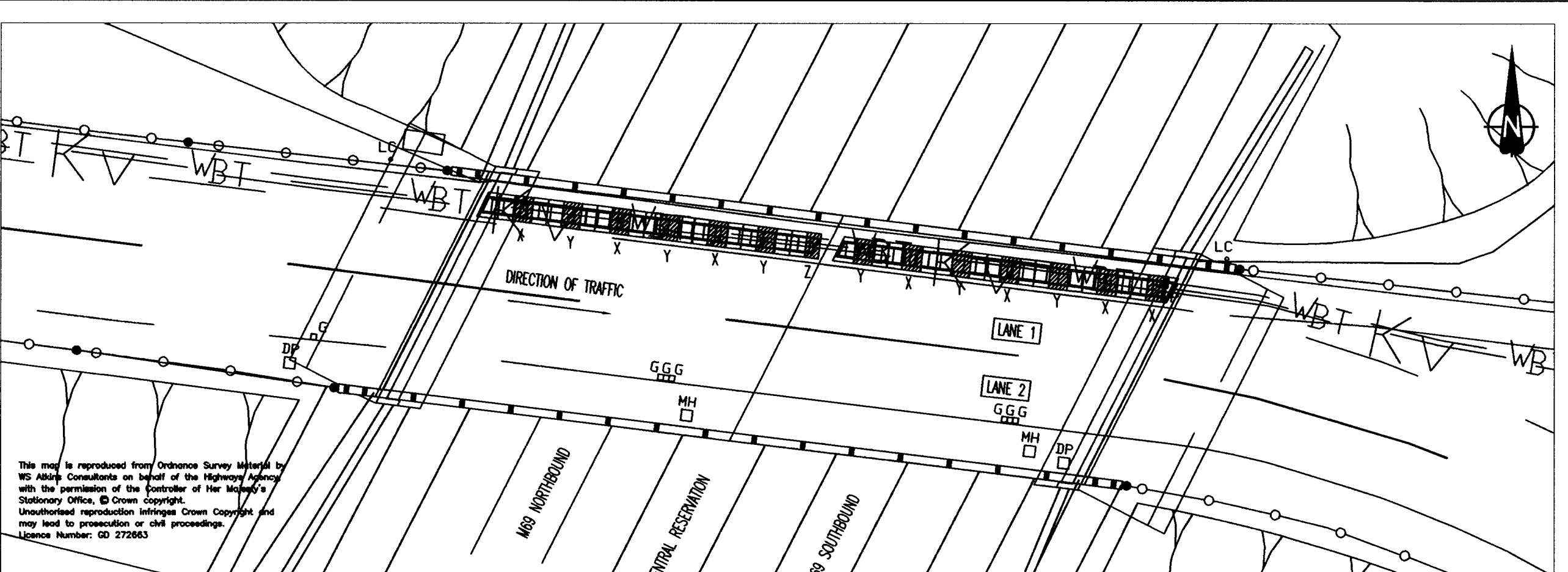
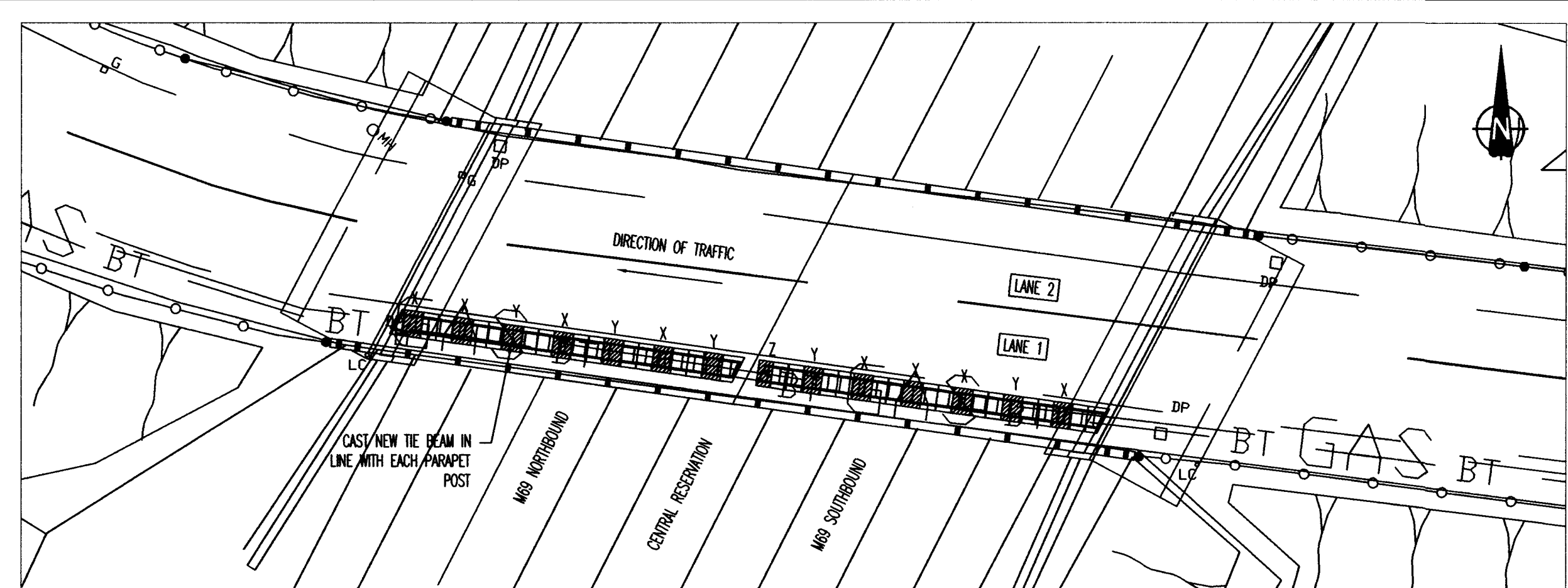
Drawn	Date	Checked	Date	Approved	Date
JFM/BH	Nov. 03	MS	NOV 03	KS	NOV 03

Office 11 / Project No. 05007 / Drawing No. S.22.104/A

Status PRELIMINARY DETAILED CONTRACT AS BUILT

FOR
CONSTRUCTION

A1



- NOTES
1. ALL DIMENSIONS IN MM UNLESS OTHERWISE STATED.
 2. DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER CONTRACT DRAWINGS.
 3. ALL POSITIONS OF EXISTING REINFORCEMENT ARE INDICATIVE ONLY.
 4. REFER TO SPECIFICATION FOR DETAILS OF CONSTRUCTION SEQUENCE.
 5. CONTRACTOR TO SUBMIT METHOD STATEMENTS FOR THE WORKS FOR APPROVAL OF THE OVERSEEING ORGANISATION.
 6. ALL CONCRETE WORKS AND MATERIALS TO BE IN ACCORDANCE WITH THE REQUIRED STANDARDS.
 7. BAR BENDING SCHEDULE REFERENCE 1105007R001 IN ACCORDANCE WITH BS8666:2000.
 8. ALL REINFORCEMENT TO BE IN ACCORDANCE WITH BS448:1997-SPECIFICATION FOR CARBON STEEL.
 9. THE REINFORCEMENT NOTATION USED FOR THE ADDITIONAL REINFORCEMENT IS AS FOLLOWS
- | NUMBER | TYPE OF BAR | SIZE | MARK | SPACING |
|--------|-------------|------|------|---------|
| 1 | T | 16 | 99 | 250 |
10. ALL FORMED SURFACES TO HAVE A CLASS F3 FINISH. ALL UNFORMED SURFACES TO HAVE A CLASS U4 FINISH SUITABLE FOR APPLICATION OF WATERPROOFING MEMBRANE.
 11. REFER TO DRAWINGS 1105007S22.107 & 108 FOR WATERPROOFING DETAILS.
 12. AREA OF DECK REMOVED TO BE AGREED WITH SITE SUPERVISOR.
 13. CONCRETE GRADE FOR THE TIE BEAM: 50/10 CONCRETE.
 14. MINIMUM COVER TO REINFORCEMENT 40MM UNLESS OTHERWISE STATED.
 15. MINIMUM LAP LENGTHS TO BE AS FOLLOWS:
- | BAR DIA.(mm) | 32 | 25 | 20 | 16 | 12 |
|--------------|------|------|------|-----|-----|
| LAP(mm) | 1715 | 1365 | 1085 | 910 | 770 |
16. DO NOT SCALE
 17. EXISTING TIE BEAM REINFORCEMENT MAY BE LEFT IN PLACE

KEY:

- REMOVE CONCRETE
- PROPOSED CONCRETE
- EXISTING TIE BEAM

MARK	STEEL	REMARKS
ER-57	Y12	
ER-58	Y16	
ER-63	Y12	Ø 270
ER-65	Y25	Ø 270 LARGER BAR AT PARAPET POST LOCATIONS ONLY
ER-66	Y12	Ø 270
ER-67	Y25	Ø 270
ER-68	Y20	
ER-69	Y12	Ø 270
ER-70	Y16	AND EXISTING TIE BEAM REINFORCEMENT TO BE RETAINED
ER-76	Y12	Ø 270

TABLE 1: SUMMARY OF EXISTING REINFORCEMENT

DATE 6/2/04

Rev	Description	By	Chk'd	App	Date
C	ADDITIONAL TIE BEAM (Z) DETAIL	DID	MS	KS	Dec. 03
B	SUBSTANTIAL DESIGN CHANGE AND REVISED NOTES	BUH	MS	KS	Nov. 03
A	ADDITIONAL DETAILS	BUH	MS	KS	Nov. 03

HIGHWAYS AGENCY

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Project AREA 11 MAC CONTRACT
M69/A5070 (NOW B4669) INTERCHANGE
NORTH AND SOUTH BRIDGES

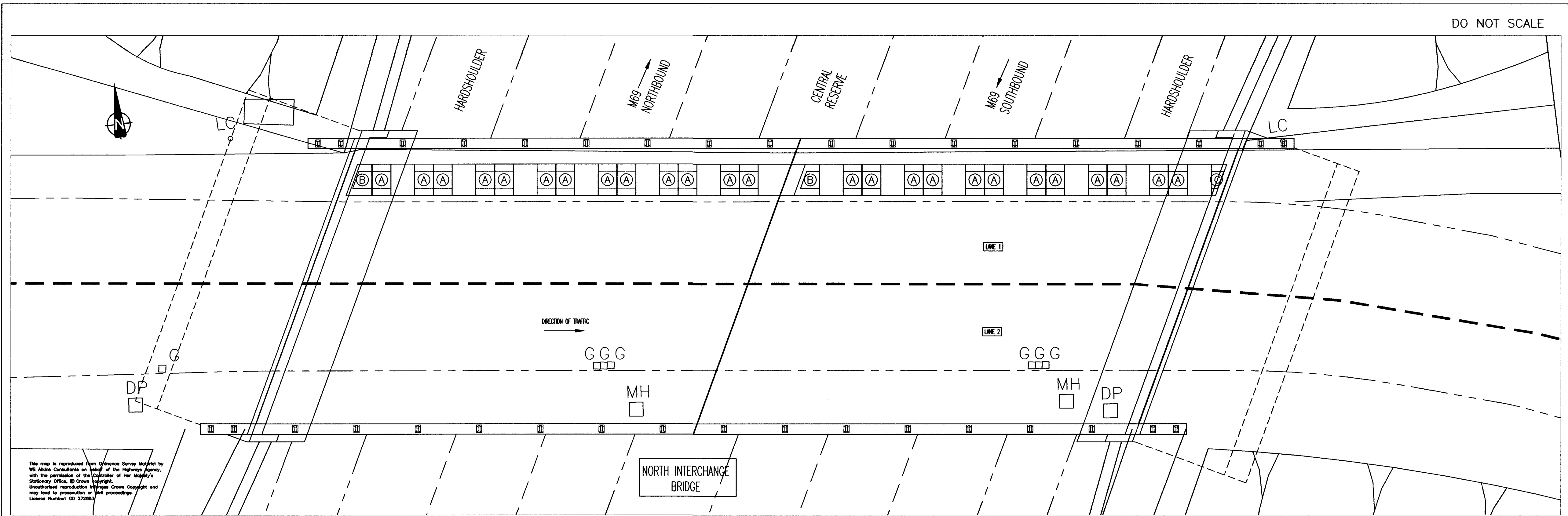
Title REPLACEMENT TIE BEAM

Scale	Drawn	Date	Checked	Date	Approved	Date
AS BUILT	JMDD/81	Dec. 03	MS	Dec. 03	KS	Dec. 03

Status: PRELIMINARY DETAILED CONTRACT AS BUILT

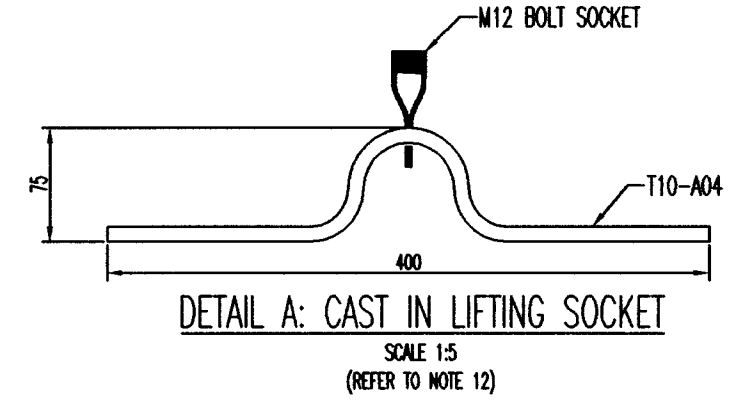
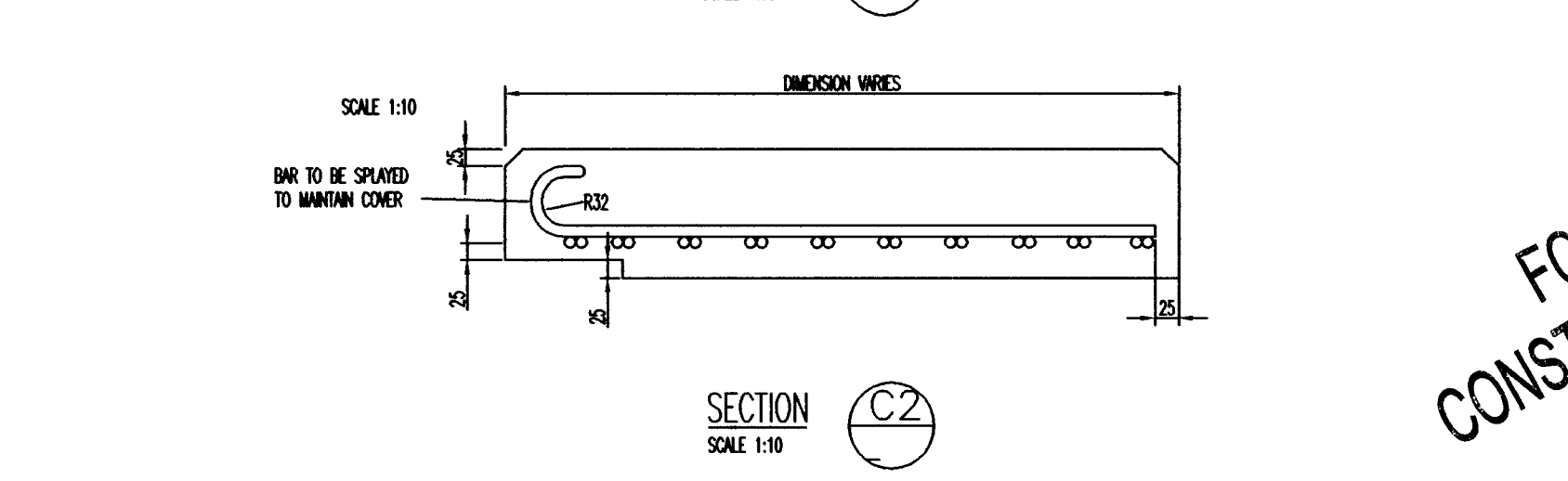
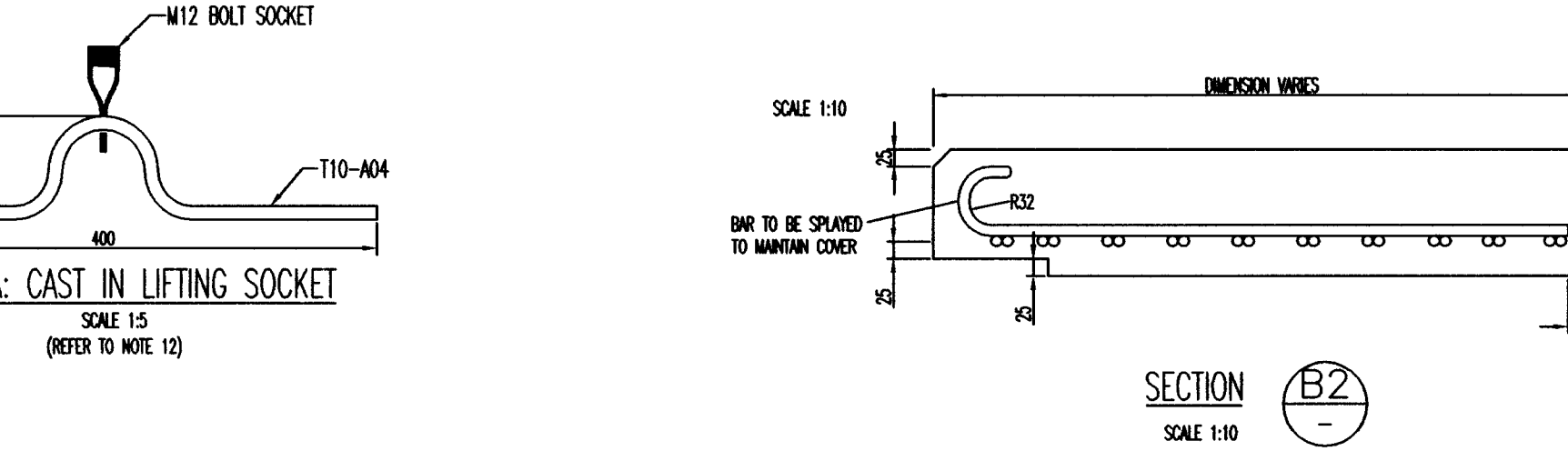
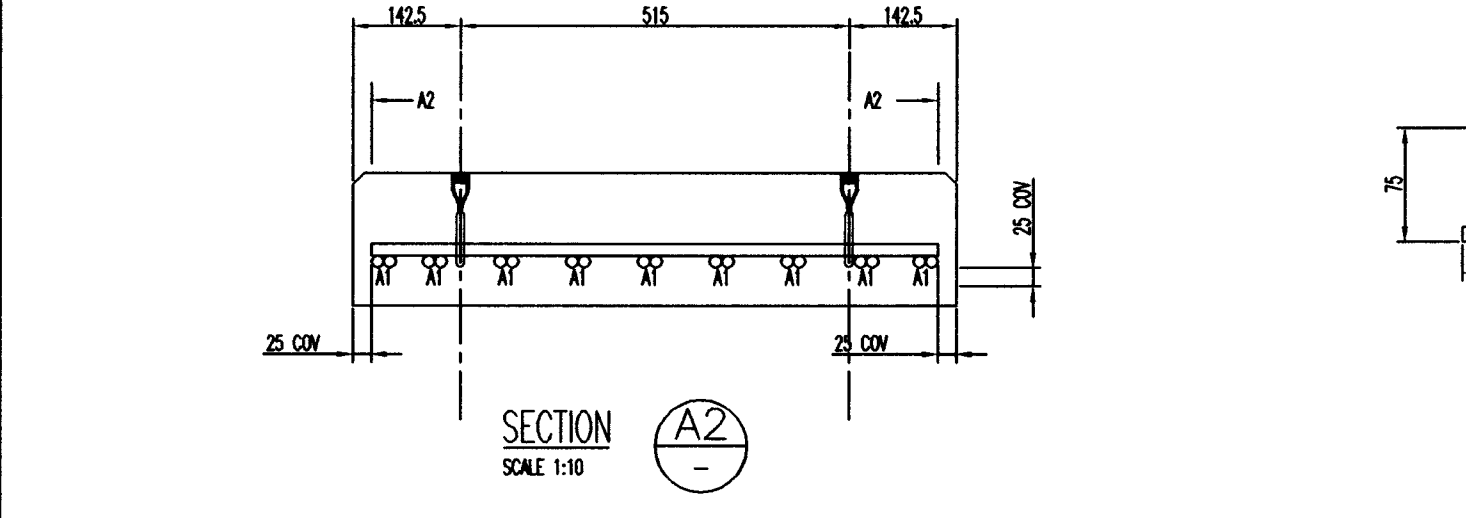
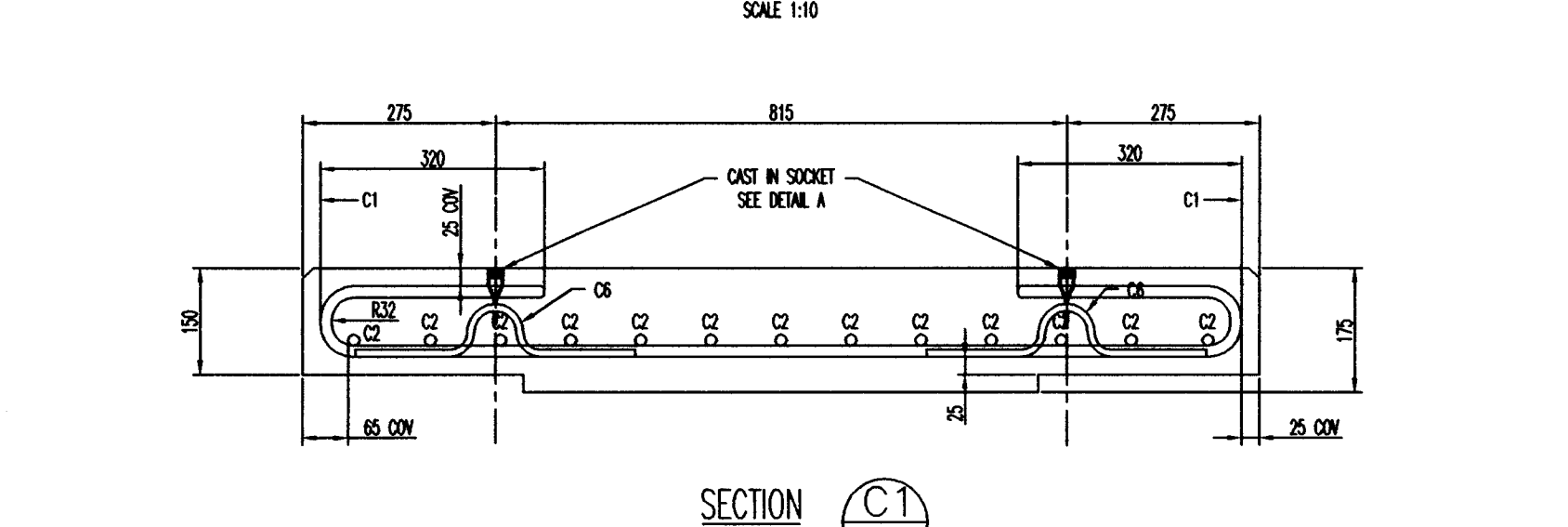
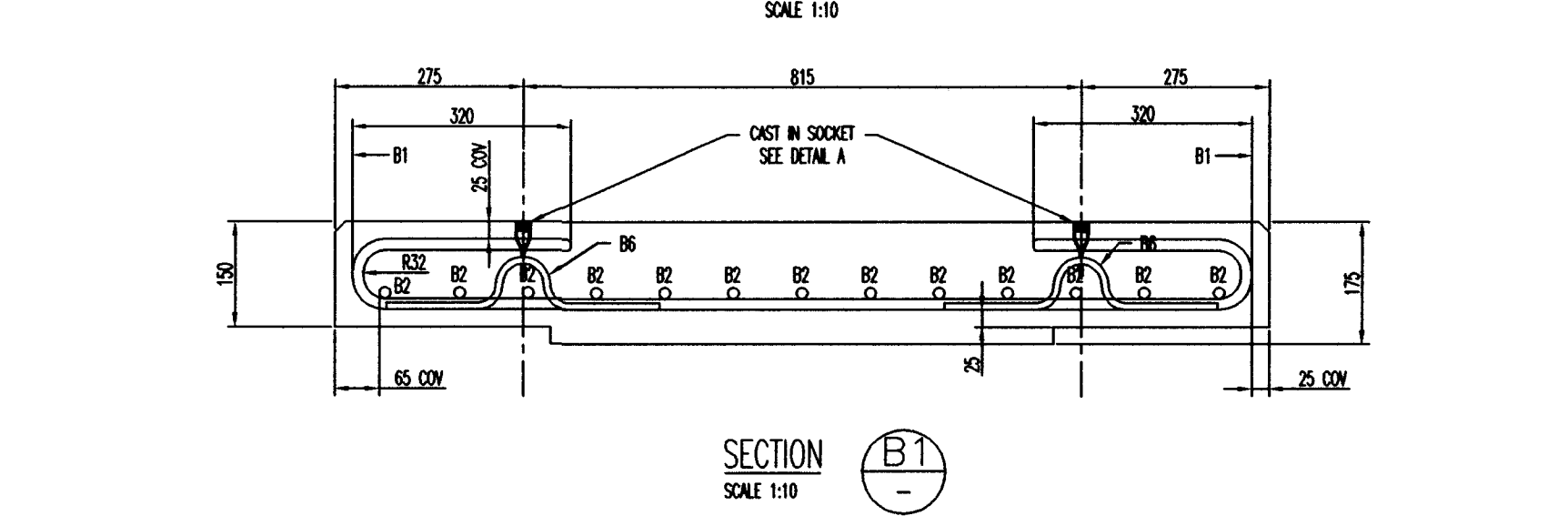
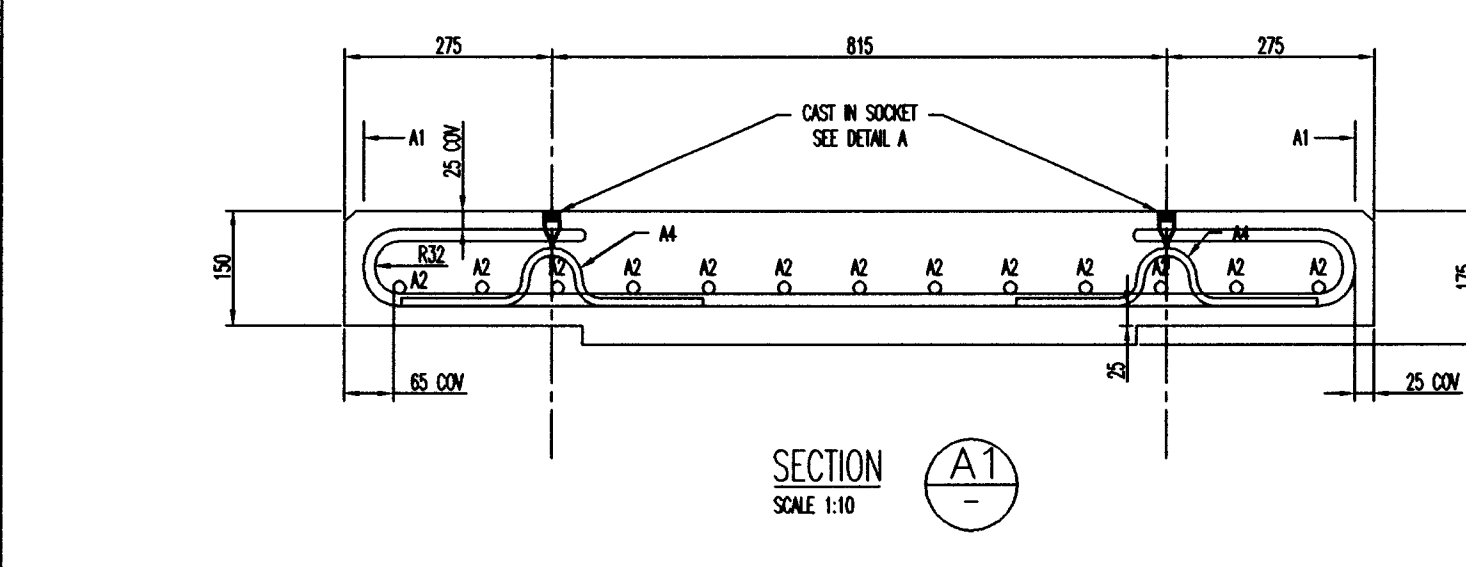
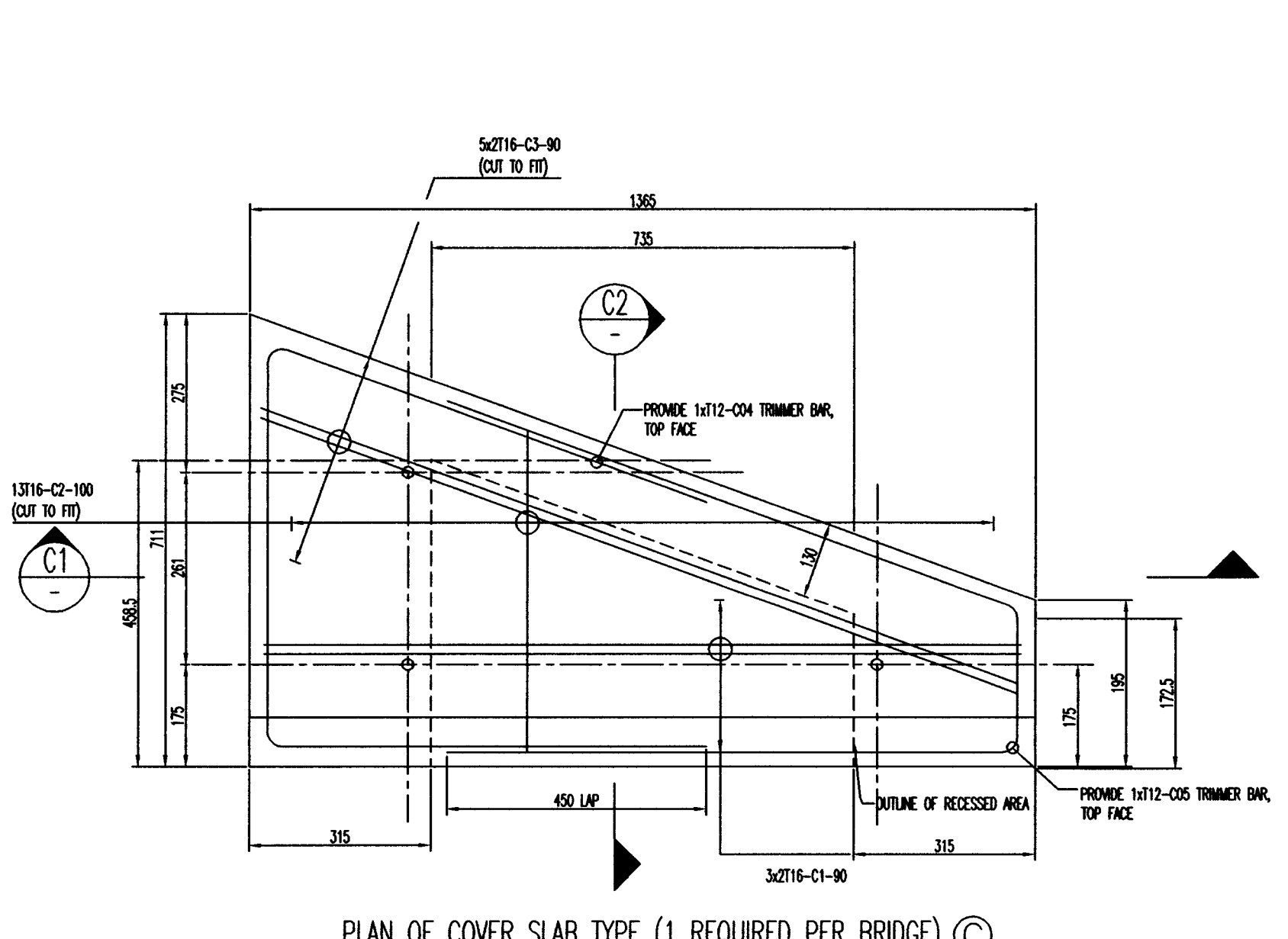
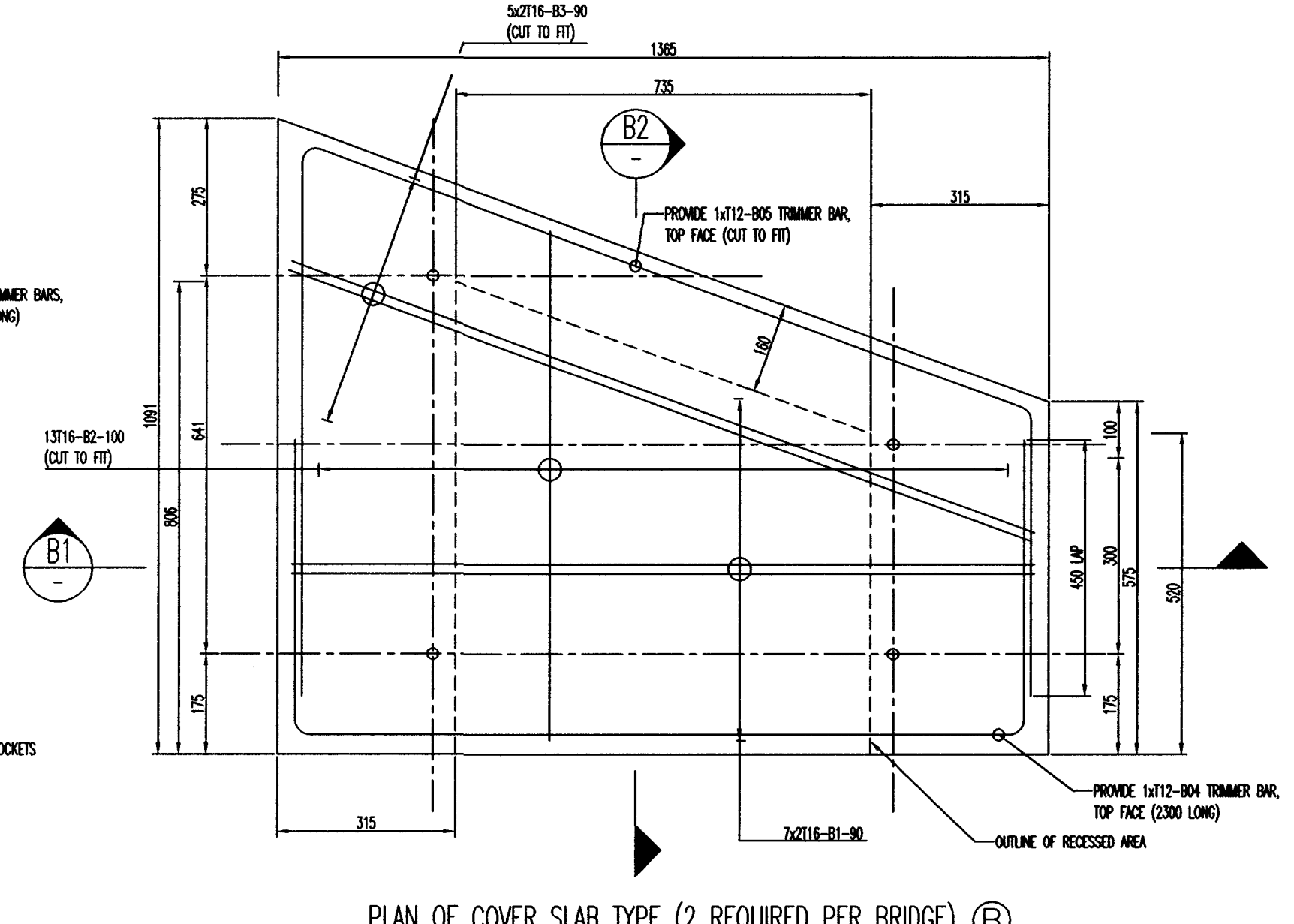
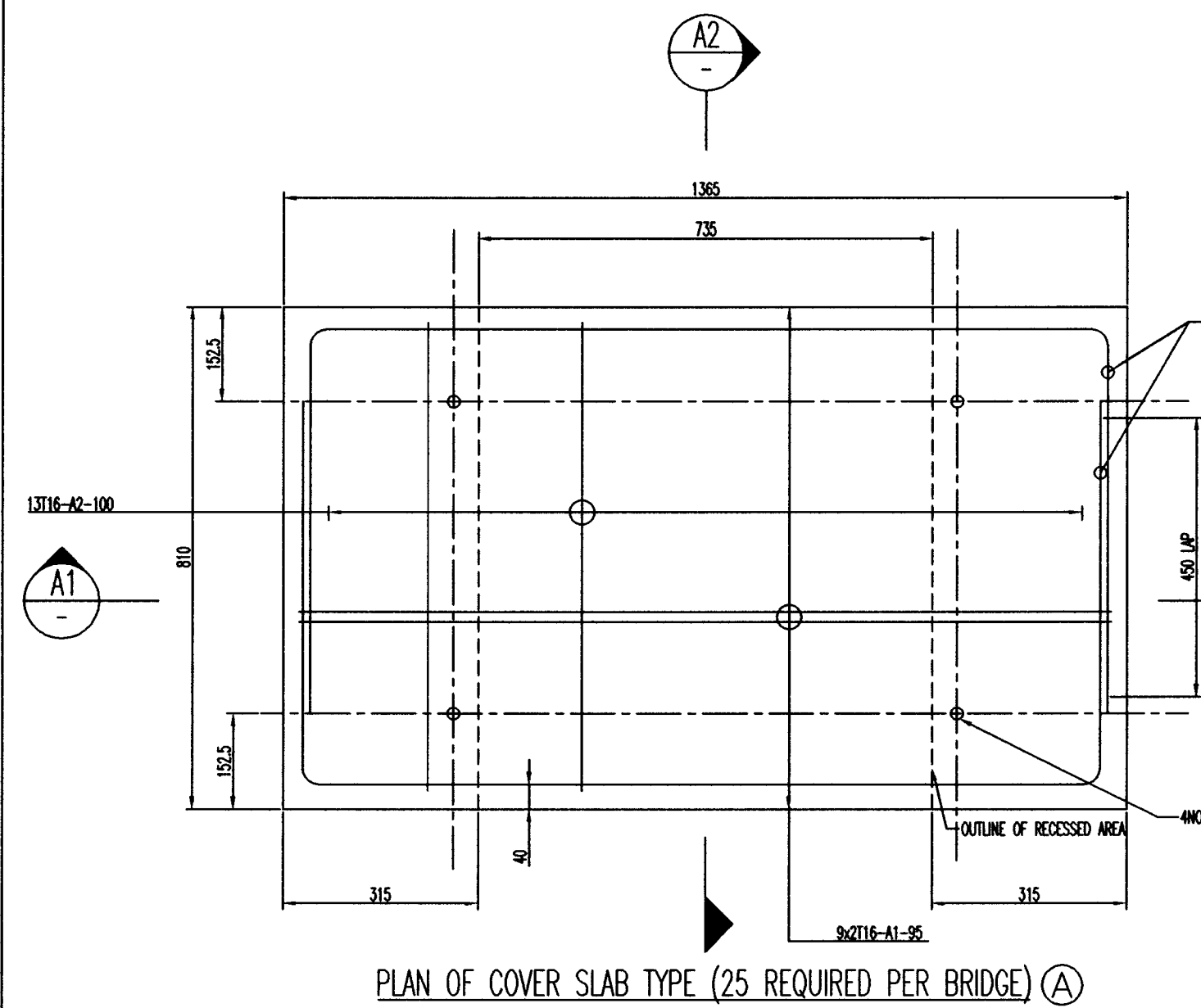
M69/B4669 I/C
11/05007/S.22.105/1c

CONTRACT
DWG



- NOTES**
- GENERAL**
1. ALL DIMENSIONS IN MM UNLESS NOTED OTHERWISE.
 2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER CONTRACT DRAWINGS.
 3. ALL REINFORCEMENT TO BE IN ACCORDANCE WITH BS4449:1988 SPECIFICATION FOR CARBON STEEL BARS FOR THE REINFORCEMENT OF CONCRETE.
 4. BAR BENDING SCHEDULE TO BE IN ACCORDANCE WITH BS8666:2000 - SPECIFICATION FOR SCHEDULING, ENGINEERING, BENDING AND CUTTING OF STEEL REINFORCEMENT FOR CONCRETE. SCHEDULE REF No. 11/05007/001.
 5. ALL REINFORCEMENT TO BE GRADE 460 TYPE 2(1) UNLESS NOTED OTHERWISE.
 6. MIN COVER TO REINFORCEMENT AS FOLLOWS UNLESS NOTED OTHERWISE: 25mm
 7. THE REINFORCEMENT POSITION SHOWN ON THIS DRAWING IS AS FOLLOWS:
ROADWAY TYPE: A11 - 2 - 200
E.G. 4 T 16 - 2 - 200
 8. UNLESS NOTED OTHERWISE MINIMUM LAPS TO BE AS FOLLOWS:
BAR DIA (mm) 40 | 32 | 25 | 20 | 16 | 12
LAP (mm) 1715 | 1365 | 1065 | 910 | 770 | 630
 9. REINFORCEMENT TO BE LOCALLY DEPLETED TO SUIT POSITION OF LIFTING LUGS.
 10. STRUCTURAL CONCRETE TO BE GRADE 50/20 UNLESS NOTED OTHERWISE.
 11. SOCKET CAPS TO BE FITTED IN LIFTING SOCKETS AFTER INSTALLATION OF PANELS. (SAFE WORKING LOAD = 50k)
 12. REFER TO DRAWING 11/05007/S22.107 FOR WATERPROOFING AND INSTALLATION DETAILS.
 13. ALL FORMED SURFACES TO HAVE A CLASS F3 FINISH. ALL UNFORMED SURFACES TO HAVE A CLASS U4 FINISH SUITABLE FOR APPLICATION OF WATERPROOFING MEMBRANE.
 14. ALL COVER DIMENSIONS TO BE CONFIRMED ON SITE BY THE CONTRACTOR PRIOR TO CASTING AND INSTALLATION.

COVER SLAB REPLACEMENT
LAYOUT PLAN (NORTH BRIDGE SOUTH SOUTH SIMILAR, SEE DRG. 11/05007/S.22.103)



DATE 6/2/04

Rev	Description	By	Chk'd	App	Date
A	DESIGN CHANGE AND REVISED NOTES	ELH	MS	KS	Nov. 03



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Project AREA 11 MAC CONTRACT
M69/A5070 (NOW B4669) INTERCHANGE
NORTH AND SOUTH BRIDGES

Title COVER SLAB REPLACEMENT WORKS
PRECAST CONCRETE OPTION

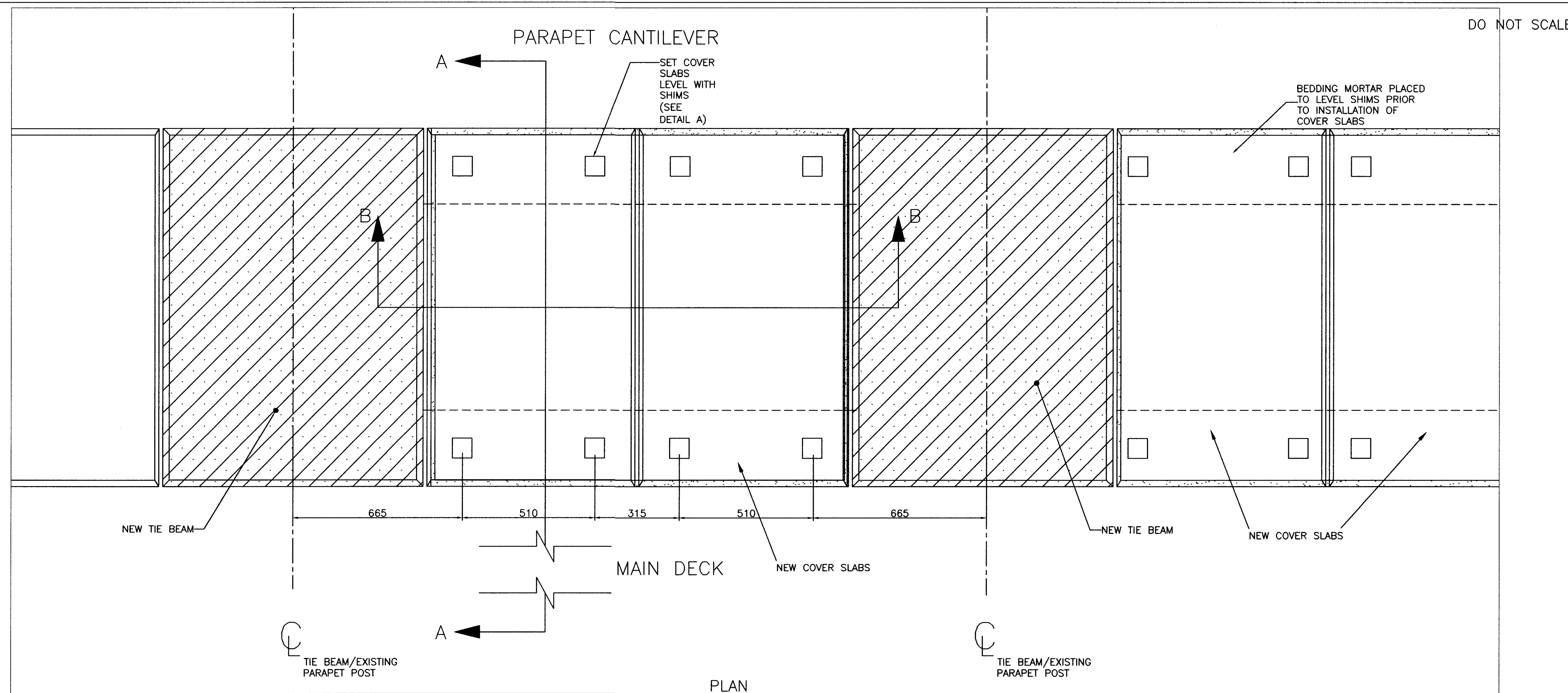
Drawn	Date	Checked	Date	Approved	Date
BCD/DBL/SH	Nov. 03	MS	Nov. 03	KS	Nov. 03

Office Project No. Drawing No. Revision
11 / 05007 / S.22.106 / A

Status PRELIMINARY DETAILED CONTRACT AS BUILT

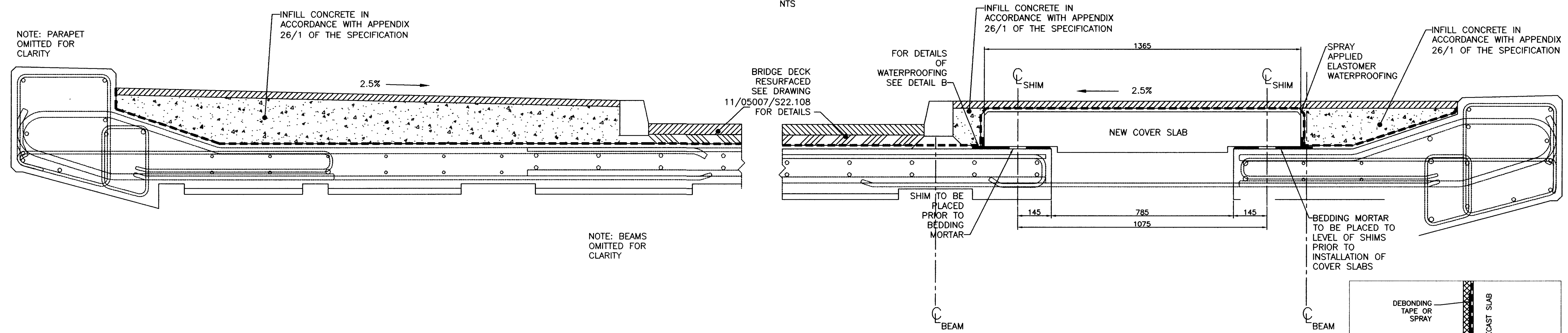
M69 / B4669 / ITC
11 / 05007 / S.22.106 / A

CONTRACT
DWG

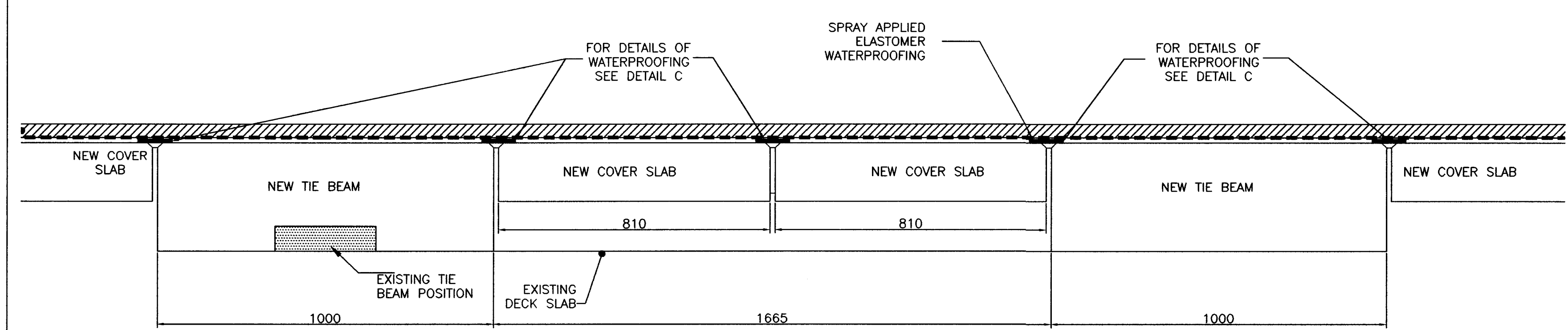


- NOTE:**
1. ALL DIMENSIONS IN MM UNLESS OTHERWISE STATED.
 2. DRAWING TO BE READ IN CONJUNCTION WITH OTHER CONTRACT DRAWINGS.
 3. ALL RESURFACING TO BE REINSTATED TO LEVELS FOUND FROM TOPOGRAPHICAL SURVEY.
 4. ALL EXPOSED AREAS OF THE BRIDGE TO BE WATERPROOFED IN ACCORDANCE WITH THE SPECIFICATION.
 5. DECK TO BE WATERPROOFED WITH APPROVED SYSTEM ONLY.
 6. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE SPECIFICATION FOR HIGHWAY WORKS & CONTRACT SPECIFIC APPENDICES.
 7. REFER TO SPECIFICATION APPENDIX 7/1 FOR CARRIAGEWAY PAVEMENT DETAILS.
 8. THE BEDDING MORTAR FOR THE COVER SLABS TO BE A MINIMUM OF GRADE 50. DETAILS TO BE SUBMITTED TO THE OVERSEEING ORGANISATION FOR APPROVAL.
 9. ALL COVER SLAB DIMENSIONS TO BE CONFIRMED ON SITE BY THE CONTRACTOR PRIOR TO CASTING AND INSTALLATION.

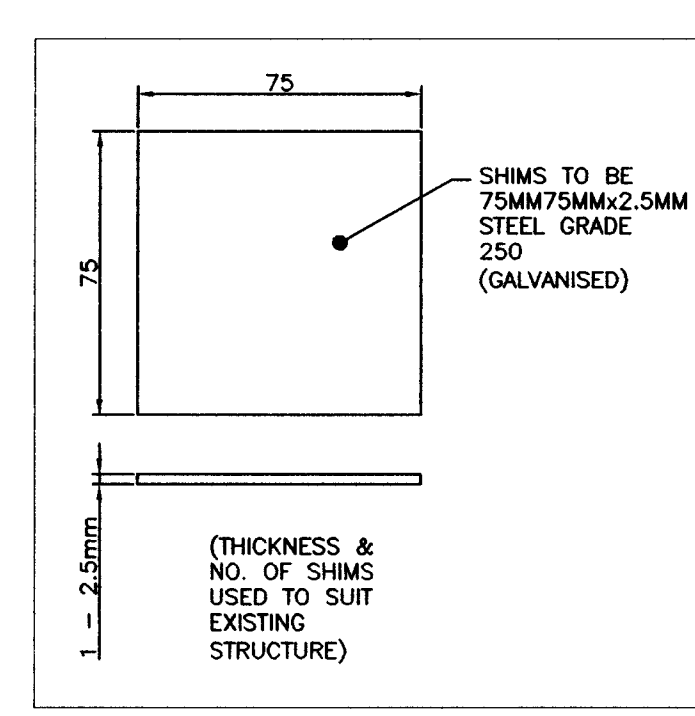
- KEY:**
- BEDDING MORTAR
 - WATERPROOFING
 - INFILL CONCRETE OF APPENDIX 26/1 OF THE SPECIFICATION
 - NEW BITUMINOUS SURFACING IN FOOTWAY
 - NEW BITUMINOUS SURFACING IN CARRIAGEWAY
 - NEW REGULATORY MATERIAL



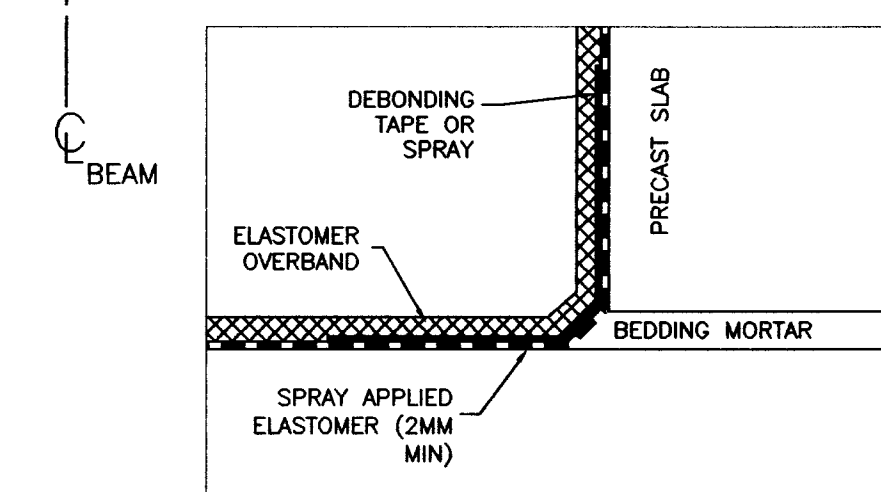
SECTION A-A
NTS



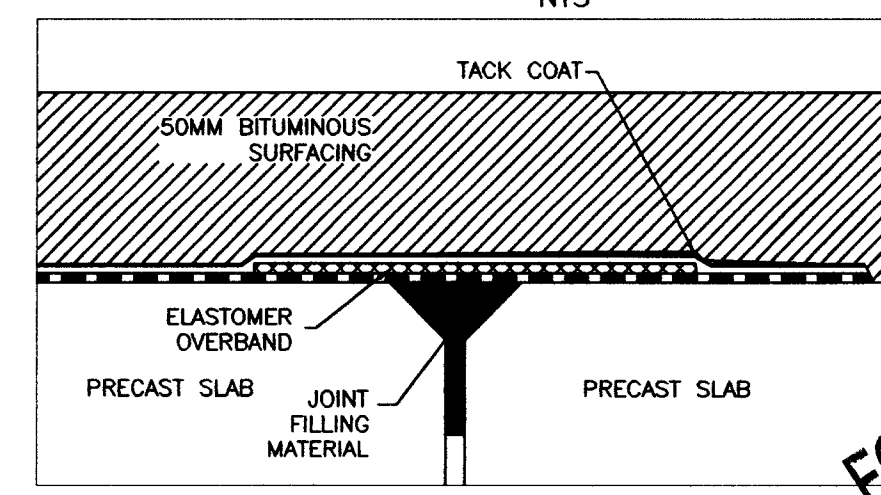
SECTION B-B
NTS



DETAIL A: SHIM PLATE
SCALE 1:2



DETAIL B: WATERPROOFING
EDGE DETAIL
NTS



DETAIL C: WATERPROOFING
BETWEEN COVER SLABS
NTS

DATE 6/2/04

B	DESIGN CHANGE AND REVISED NOTES	BJH	MS	KS	Nov. 03
A	ADDITIONAL DETAILS	BJH	MS	KS	Nov. 03
Rev	Description	By	Chk'd	App	Date



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Project AREA 11 MAC CONTRACT
M69/A5070 (NOW B4669) INTERCHANGE
NORTH AND SOUTH BRIDGES

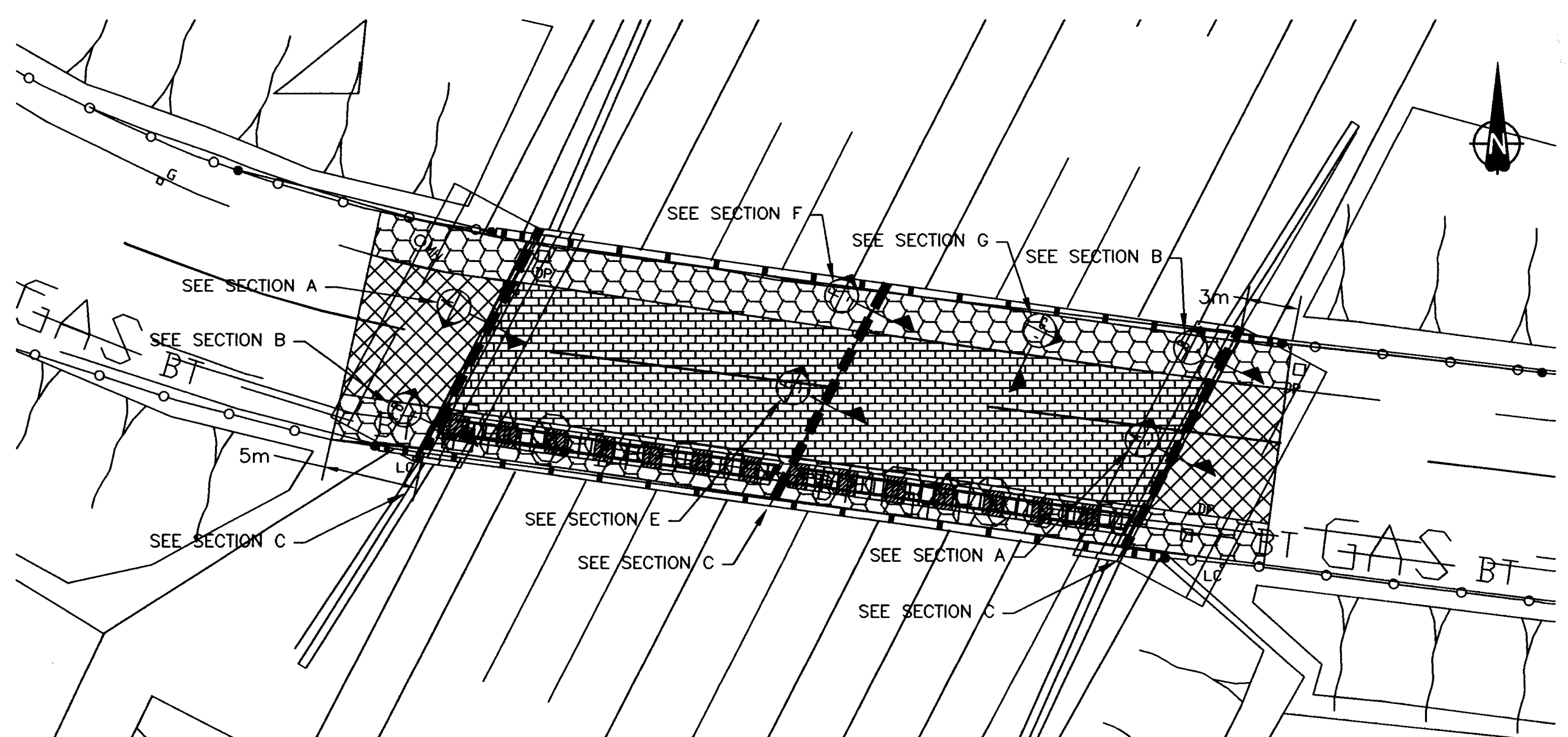
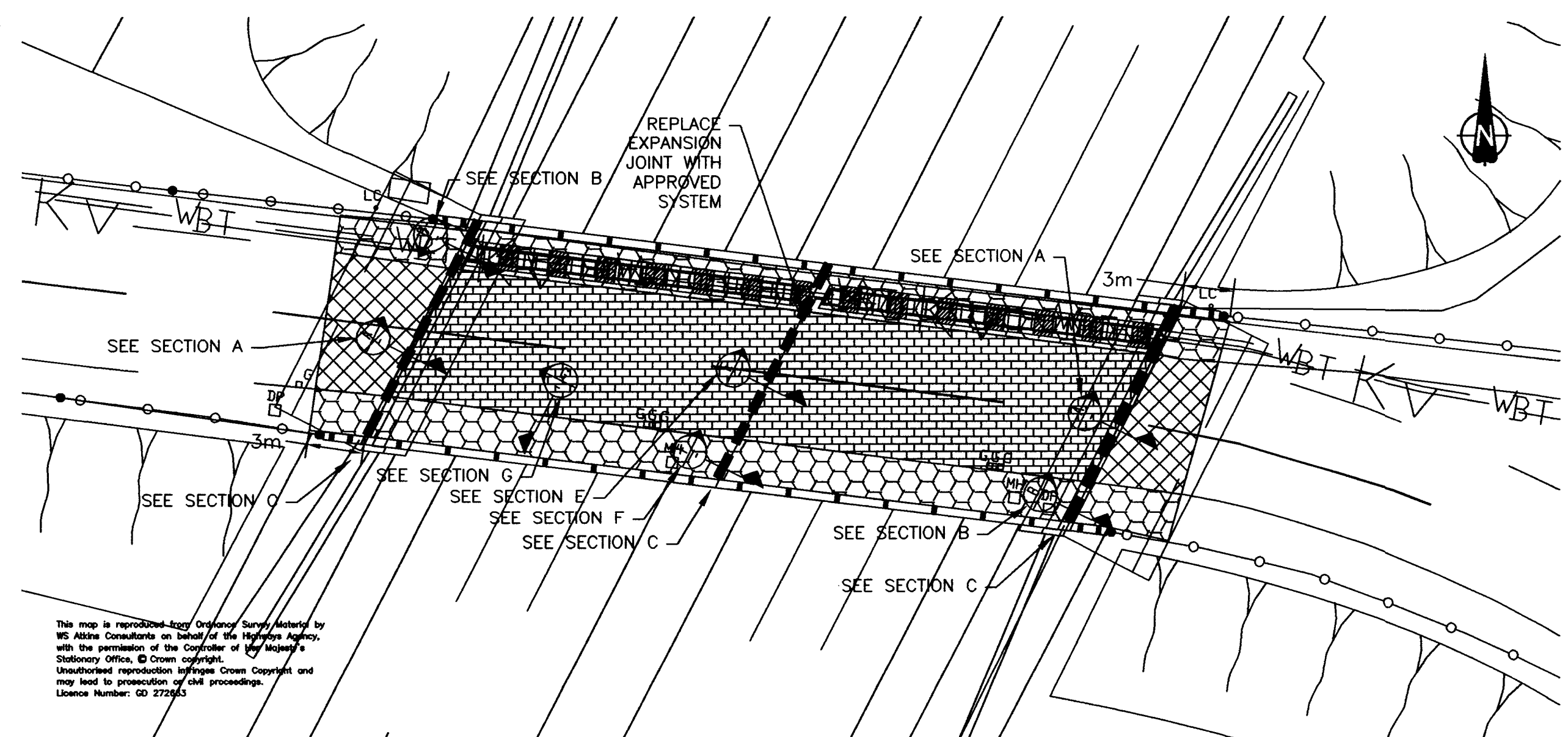
Title COVER SLAB AND TIE BEAM DETAILS

Issue	AS BUILT	Drawn	MS	Date	NOV 03	Checked	MS	Date	NOV 03	Approved	KS	Date	NOV 03
Project No.	11 / 05007 / S.22.107/B			Revision									
State	<input type="checkbox"/> PRELIMINARY <input type="checkbox"/> DETAILED <input type="checkbox"/> CONTRACT <input checked="" type="checkbox"/> AS BUILT												

M69 / B4669 / I/C
 11 / 05007 / S.22.107/B

CONTRACT
 DWG

DO NOT SCALE

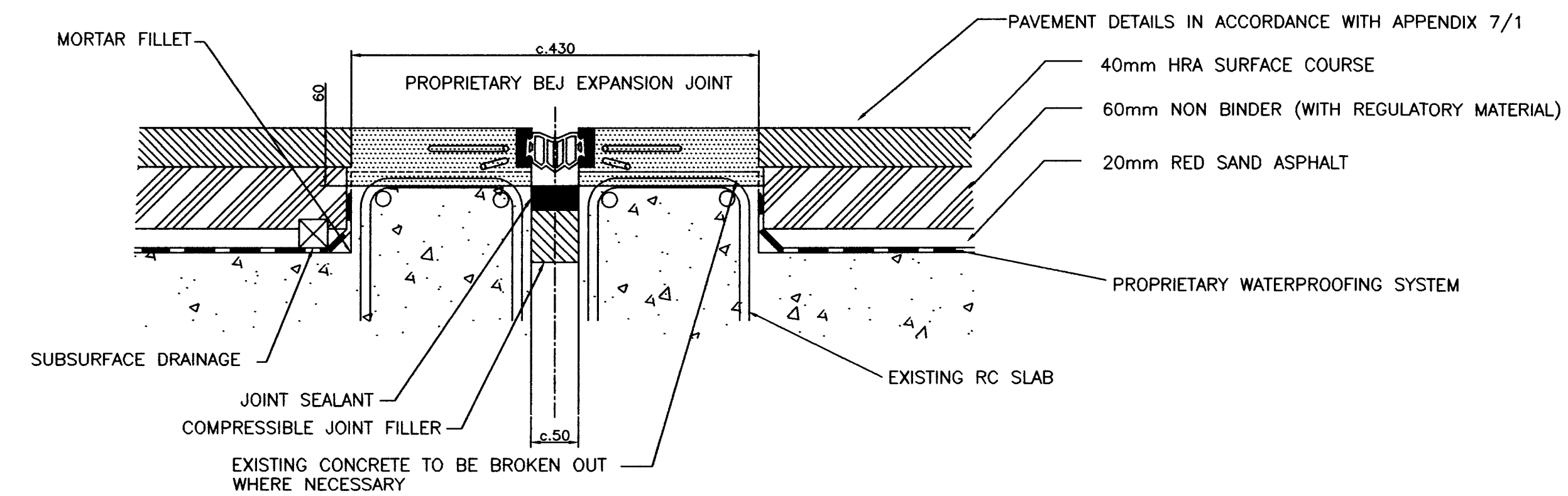


- NOTE:**
1. ALL DIMENSIONS IN MM UNLESS OTHERWISE STATED.
 2. DRAWING TO BE READ IN CONJUNCTION WITH OTHER CONTRACT DRAWINGS.
 3. ALL RESURFACING TO BE INSTALLED TO LEVELS FOUND FROM TOPOGRAPHICAL SURVEY. DRAWINGS NO. 7529N & 7529S & 11/0507/5.22.004
 4. ALL EXPOSED AREAS OF THE BRIDGE TO BE WATERPROOFED IN ACCORDANCE WITH THE SPECIFICATION.
 5. DECK TO BE WATERPROOFED WITH APPROVED SYSTEM ONLY.
 6. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE SPECIFICATION FOR HIGHWAY WORKS & CONTRACT SPECIFIC APPENDICES.
 7. REFER TO SPECIFICATION APPENDIX 7/1 FOR CARRIAGEWAY PAVEMENT DETAILS.
 8. SUBSURFACE DRAINAGE TO BE INSTALLED ON HIGH SIDE OF JOINT AND OUTFALL TO BE DESIGNED BY SPECIALIST TO SATISFACTION OF OVERSEEING ORGANISATION.

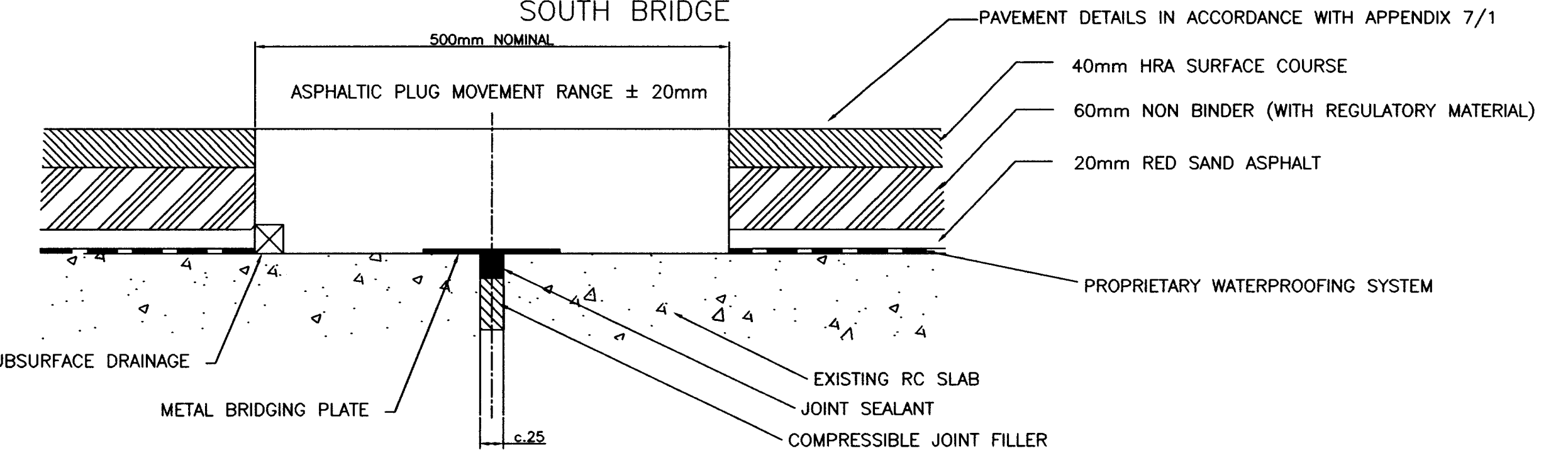
- KEY:**
- RESURFACING OF BRIDGE DECK (AREA A)
 - RESURFACING OF FOOTWAY (AREA C)
 - REGRADE TO EDGE OF ROLLING BLOCK (AREA B)
 - MH or DP: DRAINAGE CHAMBER, GULLEY, DRAW PIT
 - EXISTING SAFETY FENCE, OPTION OF ADDITIONAL LINE OF SAFETY FENCE
 - BT APPARATUS, EAST MIDLANDS ELECTRICITY, TRANSO, SEVERN TRENT WATER
 - REPLACE EXPANSION JOINT, SEE DETAILS

NORTH BRIDGE

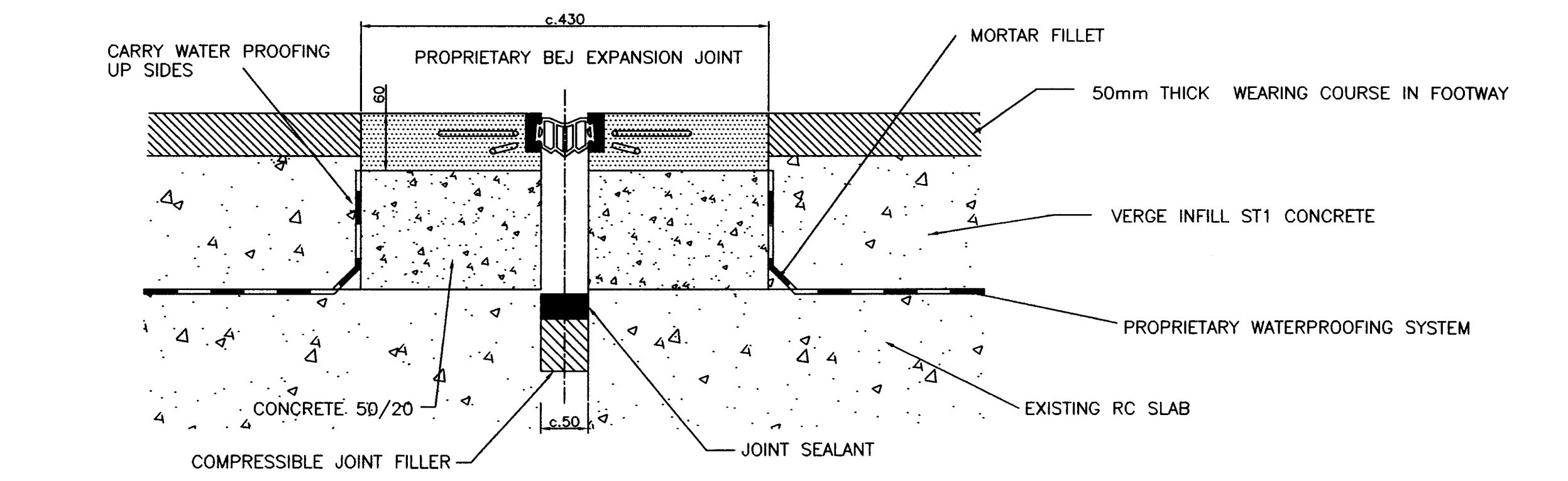
SOUTH BRIDGE



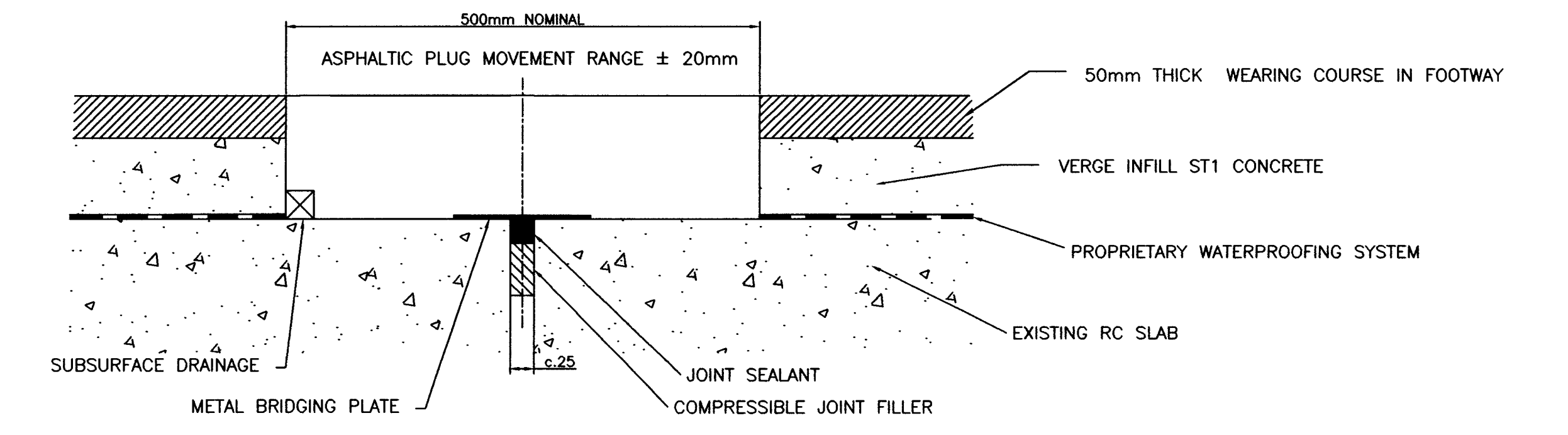
SECTION A : CARRIAGEWAY JOINT OVER ABUTMENT
SCALE 1:5



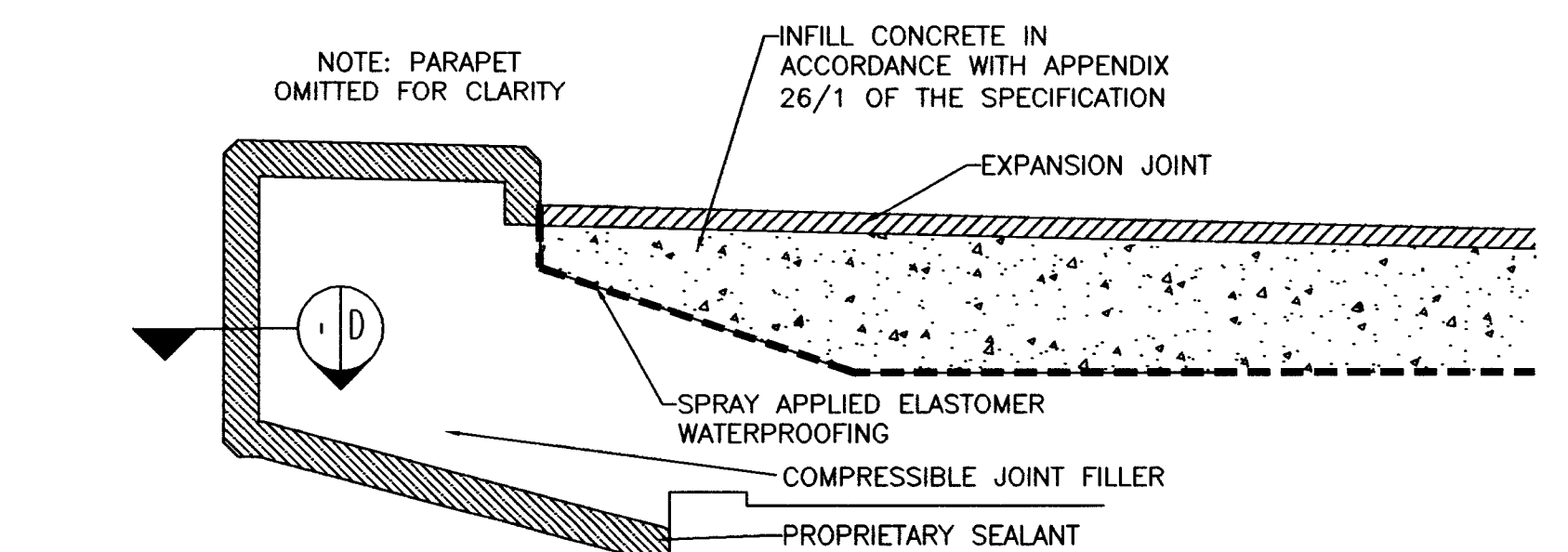
SECTION E : CARRIAGEWAY JOINT OVER PIER
SCALE 1:5



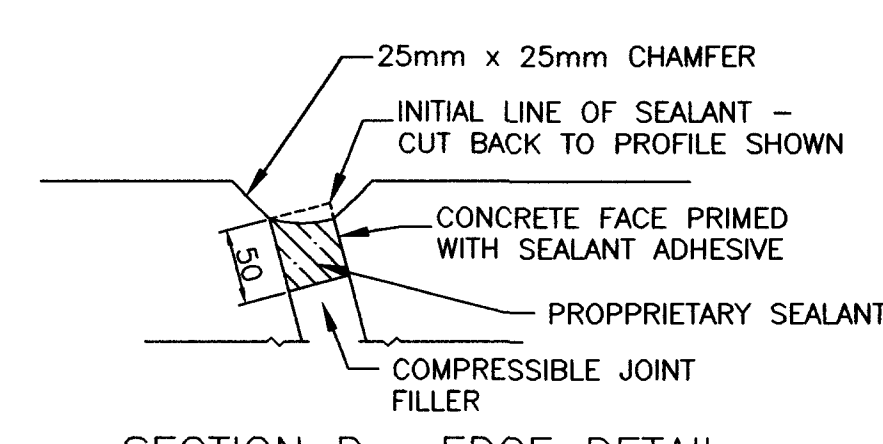
SECTION B : VERGE JOINT OVER ABUTMENT
SCALE 1:5



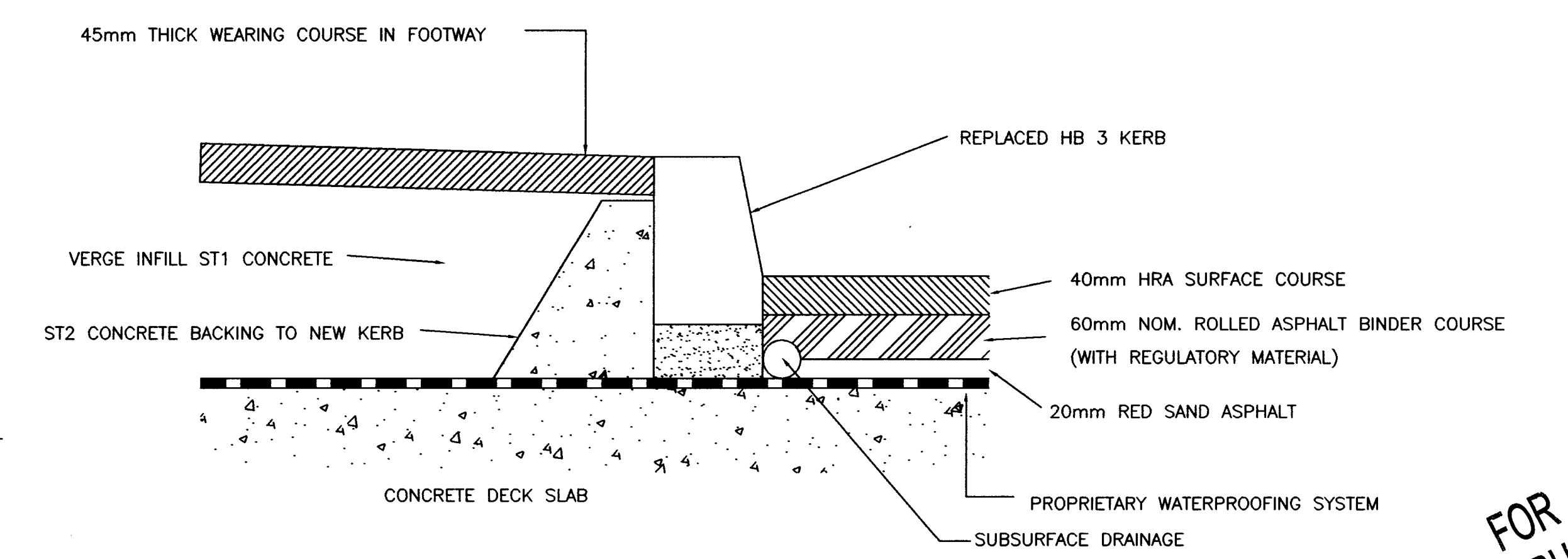
SECTION F : VERGE JOINT OVER PIER
SCALE 1:5



SECTION C : SEALANT WORKS IN CANTILEVERED EDGE AT JOINT LOCATIONS
SCALE 1:10



SECTION D : EDGE DETAIL
SCALE 1:5



SECTION G : THROUGH KERB CHANNEL
SCALE 1:5

DATE 6/2/04

B	SUBSTANTIAL DESIGN CHANGE AND REVISED NOTES	BJH	MS	KS	Nov. 03
A	ADDITIONAL DETAILS	BJH	MS	KS	Nov. 03
Rev	Description	By	Chk'd	App	Date

HIGHWAYS AGENCY

OPTIMA
INFRASTRUCTURE MANAGEMENT

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Project AREA 11 MAC CONTRACT
M69/A5070 (NOW B4669) INTERCHANGE
NORTH AND SOUTH BRIDGES
Title ADDITIONAL BRIDGE MAINTENANCE WORKS

Scale	Drawn	Date	Checked	Date	Approved	Date
1:10	JFM/DIB/BJH	Nov. 03	MS	NOV 03	KS	NOV 03
Office	Project No.	Drawing No.	Revision			
	11 / 05007 /	S.22.108/B				

FOR CONSTRUCTION A1

PRELIMINARY DETAILED CONTRACT AS BUILT

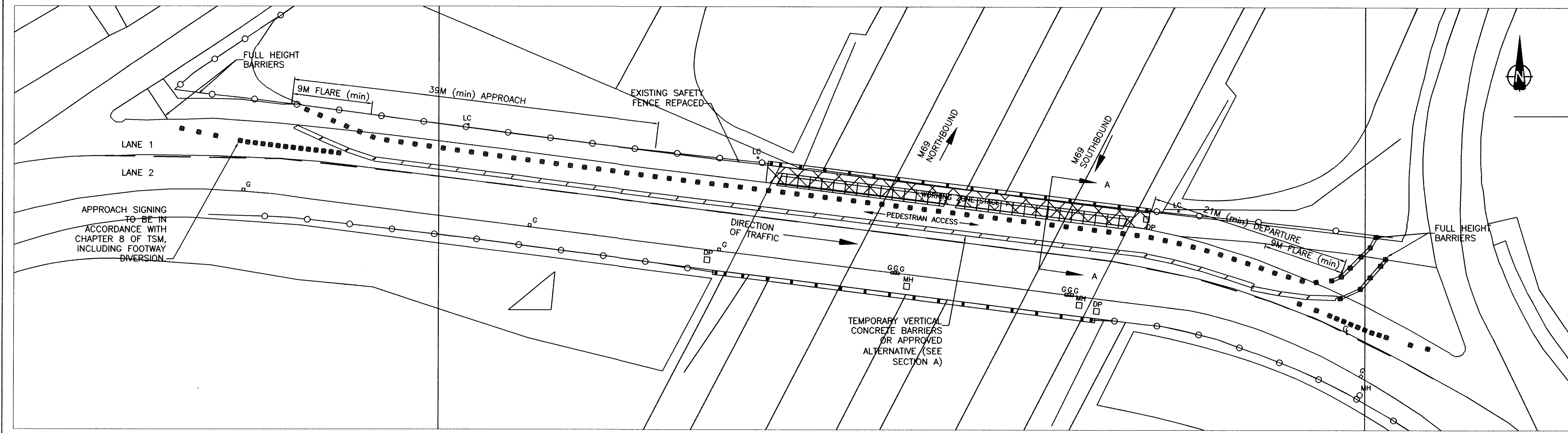
M69/B4669/IT/C
11/05007/5.22.108/B

CONTRACT DWG

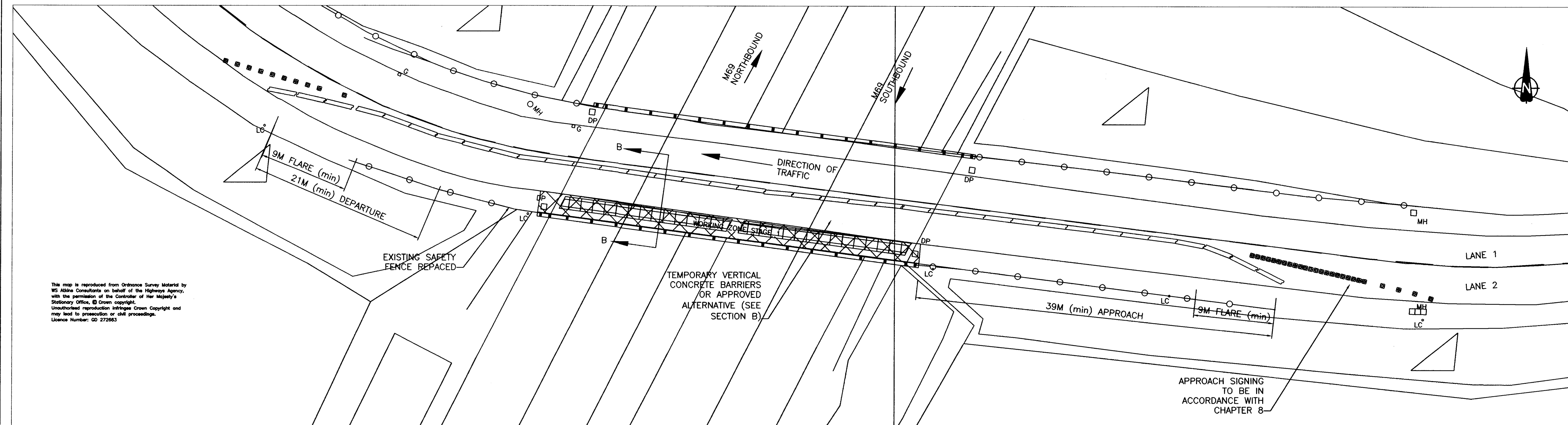
Contract
Daily

M69/134669 I/C
109
11/05007/9.22.1099/-

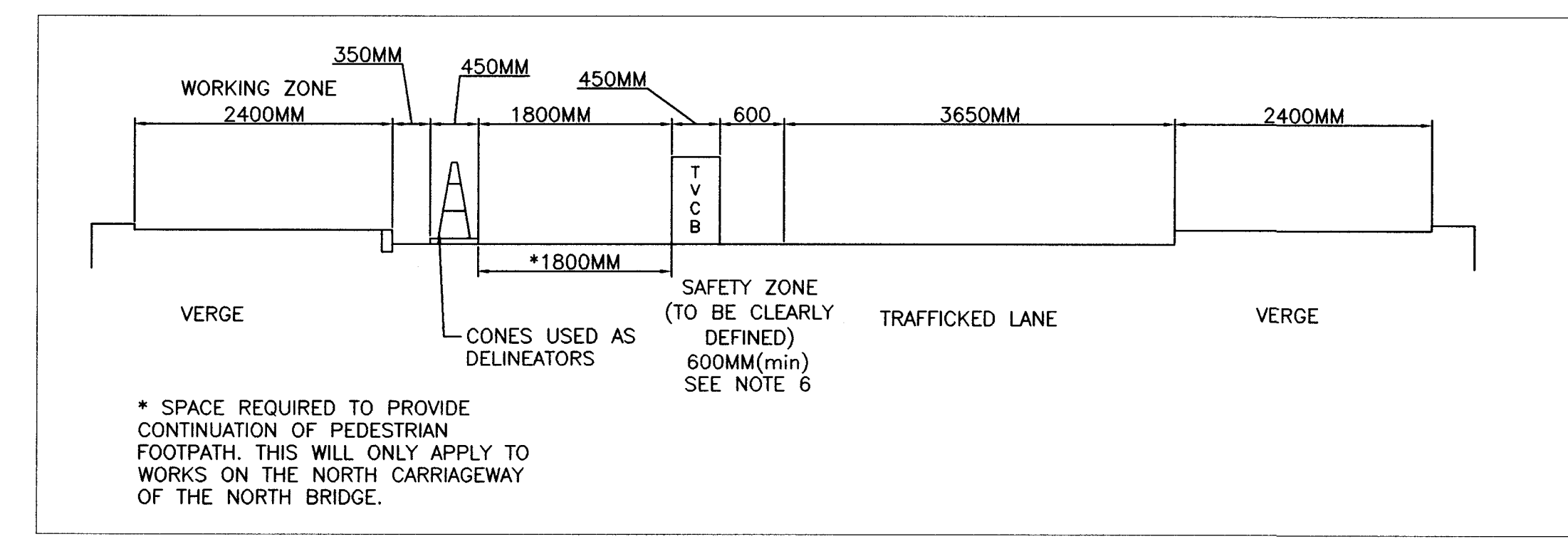
DO NOT SCALE



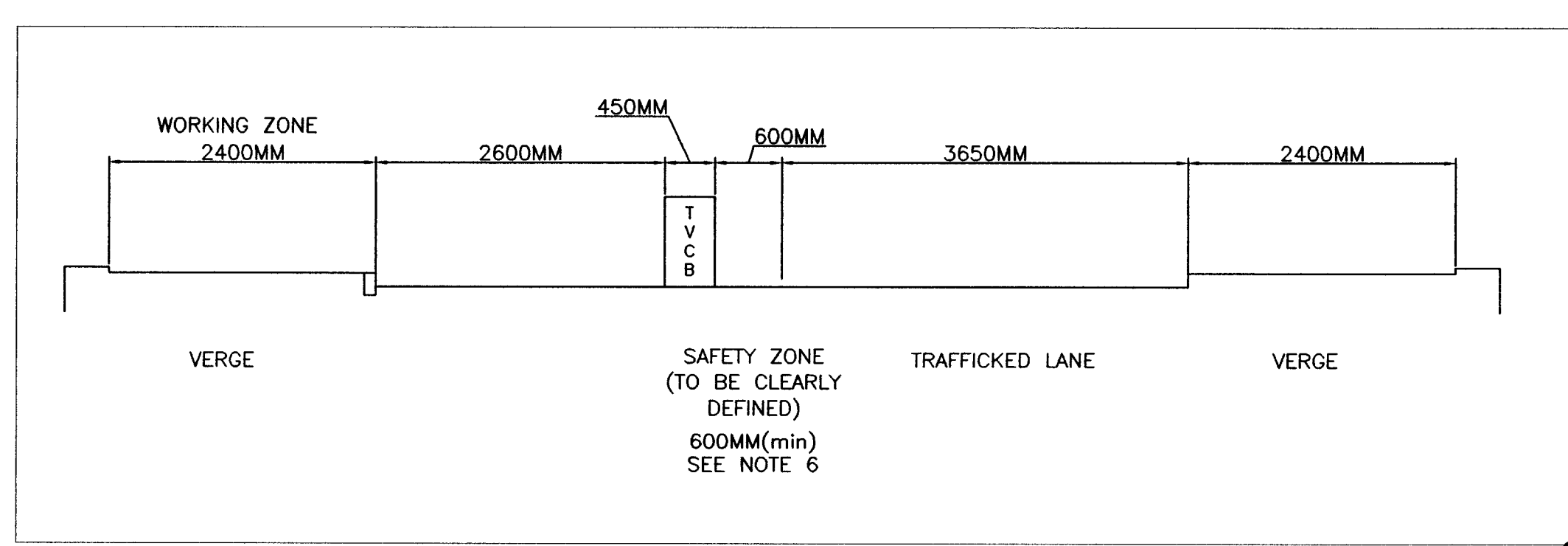
NORTH BRIDGE
SCALE 1:250



SOUTH BRIDGE
SCALE 1:250



SECTION A : SECTION THROUGH TVCB LAYOUT
SCALE 1:50



SECTION B : SECTION THROUGH TVCB LAYOUT
SCALE 1:50

- NOTE:
- DRAWING TO BE READ IN CONJUNCTION WITH ATTACHED SPECIFICATION AND NON-PROPRIETARY SAFETY BARRIER SYSTEM (NPSBS) DRAWINGS (GA/200 TO 207, SB/100 TO 107, SB/133 AND SB/134), AND STAGE 2 TVCB LAYOUT DRAWING - 11/05007/S.22.110.
 - WORKS TO BE CARRIED OUT WITH THE USE OF TVCB'S OR APPROVED ALTERNATIVE. DETAILS TO COMPLY WITH THE "INTERIM REQUIREMENTS FOR ROAD RESTRAINTS SYSTEM" (IRRS), SEE DRG. 11/05007/S.22.102&103.
 - PEDESTRIAN ACCESS TO BE MAINTAINED AT ALL TIMES ACROSS NORTH BRIDGE, DEFINED WITH FULL HEIGHT BARRIERS ON BOTH SIDES.
 - WORKS TO BE CARRIED OUT ON ONE SIDE AT A TIME PER BRIDGE. ON COMPLETION OF WORKS ON ONE SIDE TRAFFIC MANAGEMENT TO BE SHIFTED ACROSS THE CENTRE LINE TO PROVIDE PROTECTION FOR WORK ON THE OTHER SIDE OF THE BRIDGE.
 - ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.
 - TEMPORARY SPEED LIMIT OF 40MPH THROUGH THE WORKS WITH APPROACH SIGNING IN ACCORDANCE WITH CHAPTER 8 OF THE TSM.

- KEY:
- G GULLEY
 - DP DRAWPIT
 - MH DRAINAGE CHAMBER
 - EXISTING SAFETY FENCE

DATE 6/2/06

Rev	Description	By	Chk'd	App	Date



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Tel: 01827 313 313 Fax: 01827 313 113 e-mail: enquiry@optima-tm.com

Project AREA 11 MAC CONTRACT
M69/A5070 (NOW B4669) INTERCHANGE
NORTH AND SOUTH BRIDGES
Title TRAFFIC MANAGEMENT SHEET 1 OF 2

Scale	Drawn	Date	Checked	Date	Approved	Date
1:50	JFM/BJH	Nov. 03	MS	NOV 03	KS	NOV 03
Office	Project No.	Drawing No.	Revision			
11	05007	S.22.109/-				

Status: PRELIMINARY DETAILED CONTRACT AS BUILT

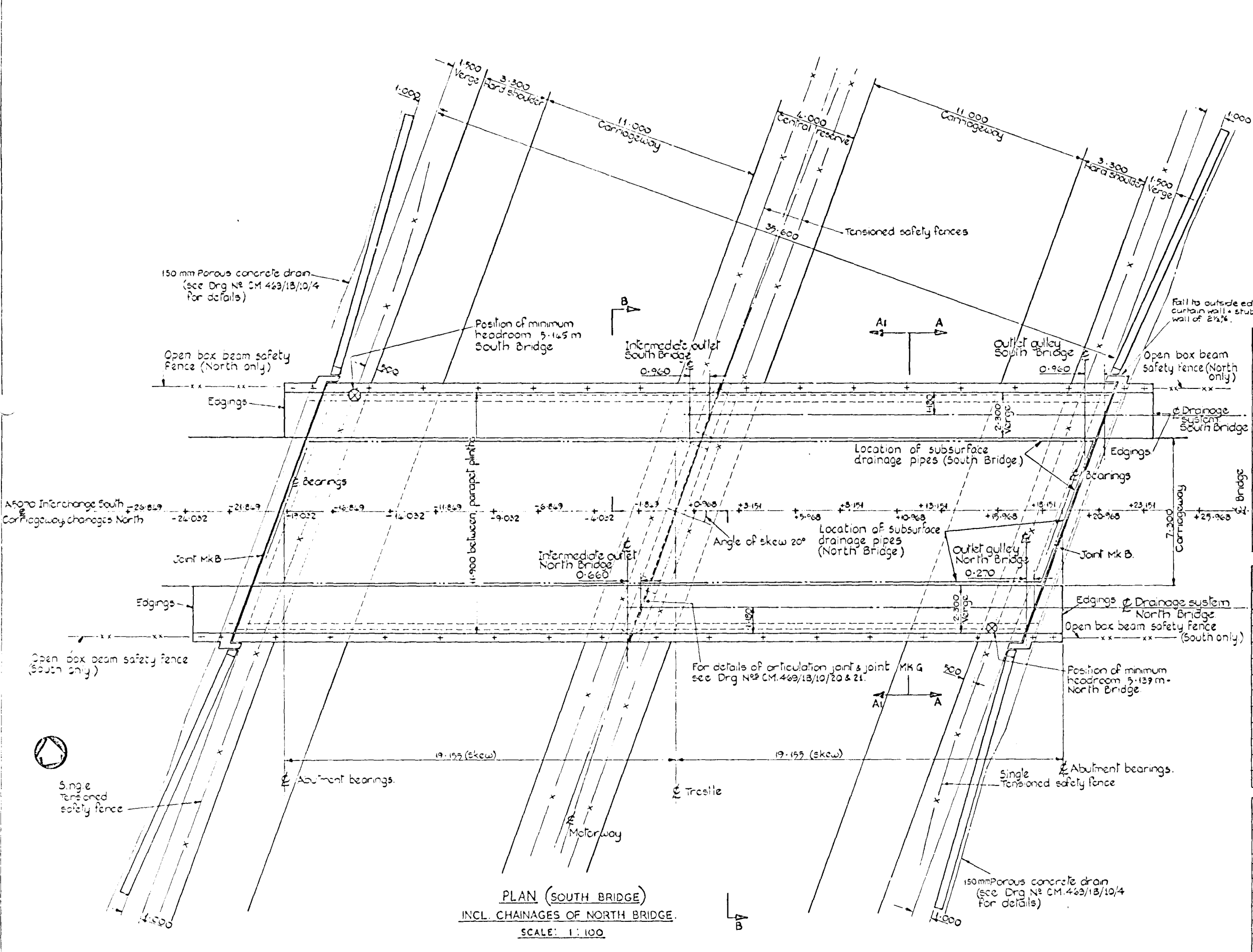
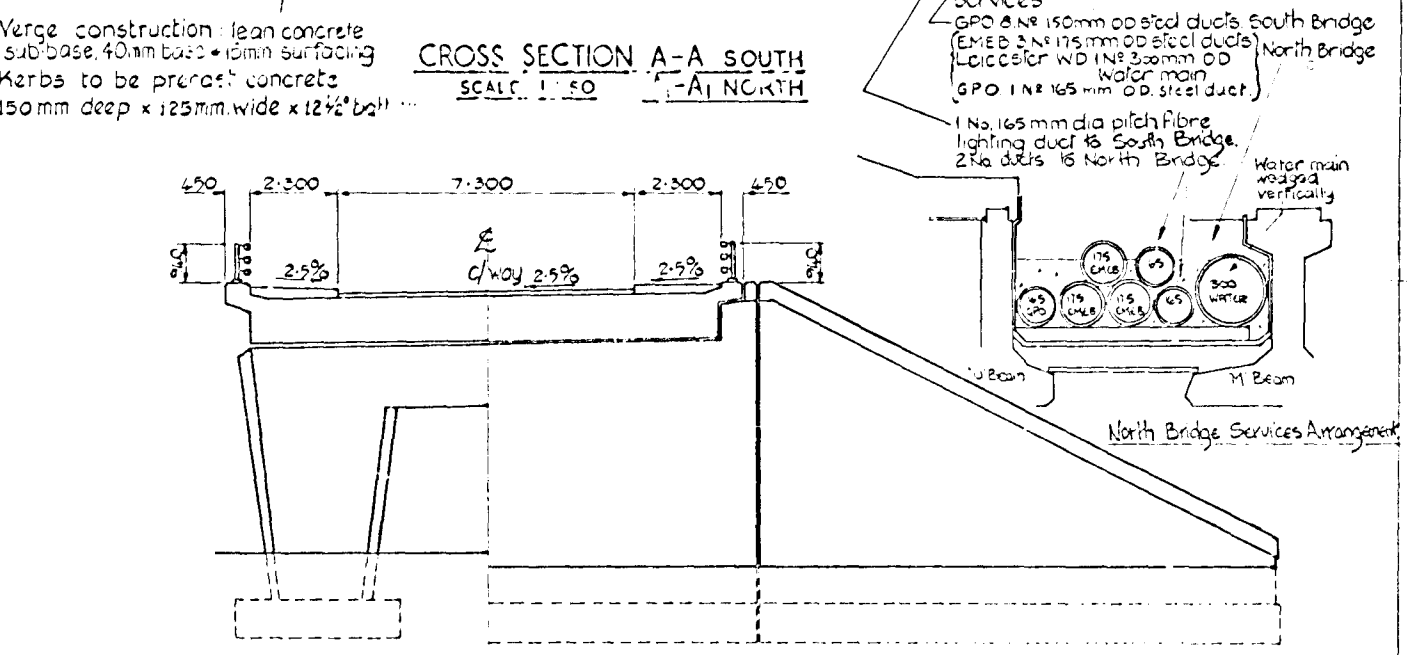
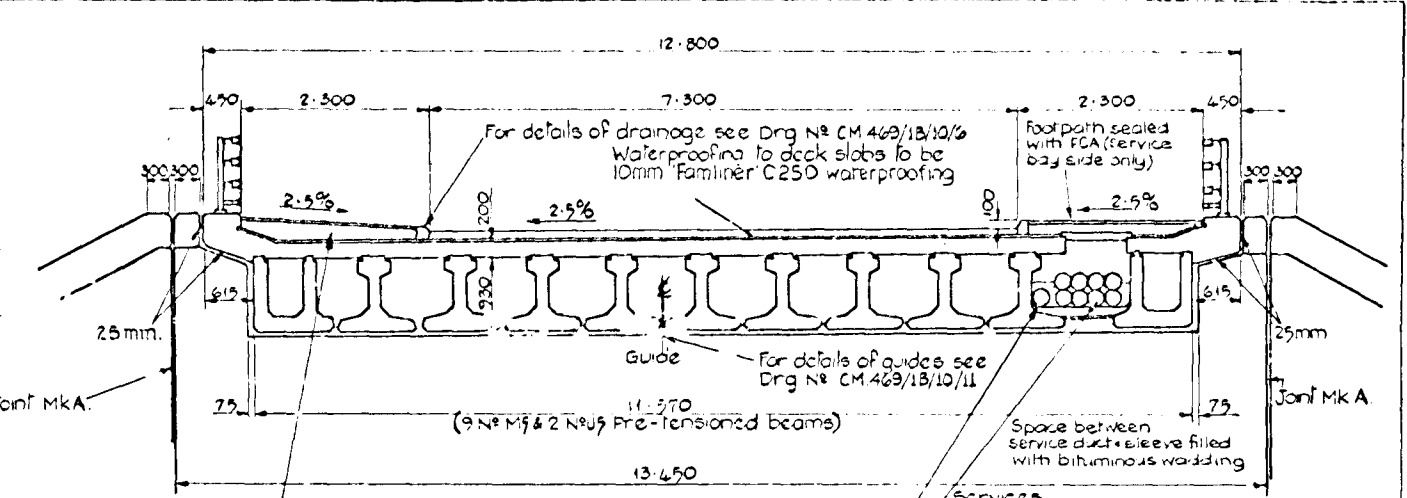
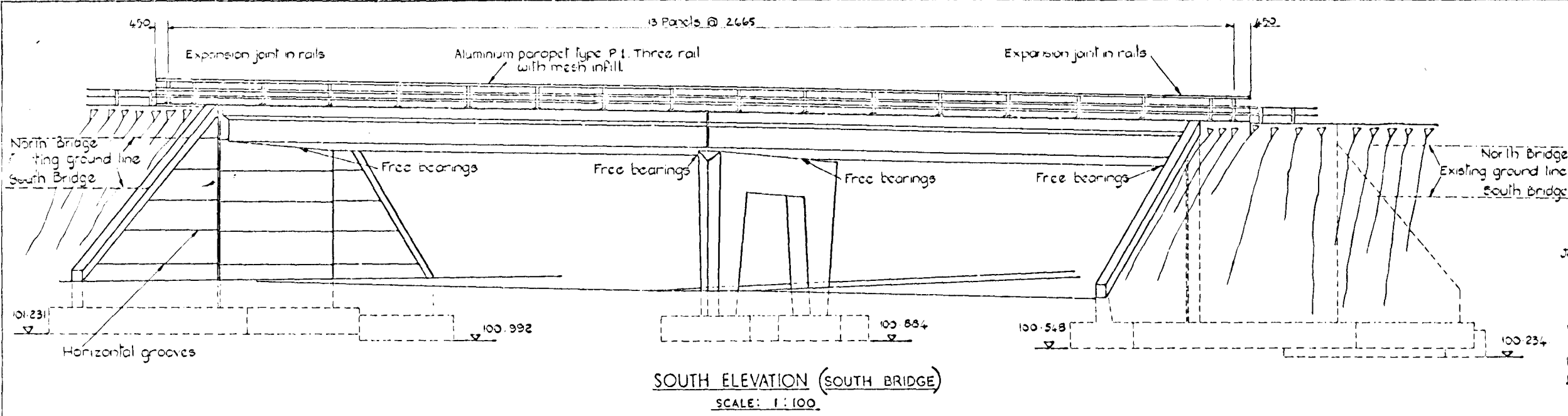
FOR
CONSTRUCTION
A1

CM 469/1B/10/4

TYPE OF ABUTMENT	SKELETON ABUTMENT	SLOPING ABUTMENT	VERTICAL ABUTMENT	PIERS AND COLUMNS
EXCAVATION Denotes excavation measured in bulk excavation in Road Bill Denotes excavation required for bridge works measured in Bridge works Bill See Notes 2 & 3				
DRAINAGE AND PAINTING Denotes elevation of areas to be painted Denotes section through areas to be painted Areas denoted as above to be painted with bitumen in accordance with specification clause 2006 Paint approved and used on site was Leucal R & RS				
COMPACTION OF FILL Denotes areas of compaction defined in the Bill as around foundation Denotes areas of compaction measured in the Bill as adjacent to structure Compaction outside the volume defined here is measured in roadworks items				
GRANULAR BACKFILLING MATERIAL Denotes areas back-filled with granular material to clause 615 and defined in the Bill as around foundation Denotes areas back-filled with granular material to clause 615 and measured in the Bill as adjacent to structure				

- NOTES**
- Top surface of base to piers to be painted only if base is continuous between piers
 - Excess excavation in front of the toe of a foundation shall be replaced with concrete class E up to the top of the foundation
 - Excess excavation behind an earth retaining structure shall be backfilled up to formation level with granular material to clause 615
 - Excess excavation in front of shear keys shall be replaced with concrete class E

CM 469/18/10 - 21/1b



A5070 - NORTH BRIDGE

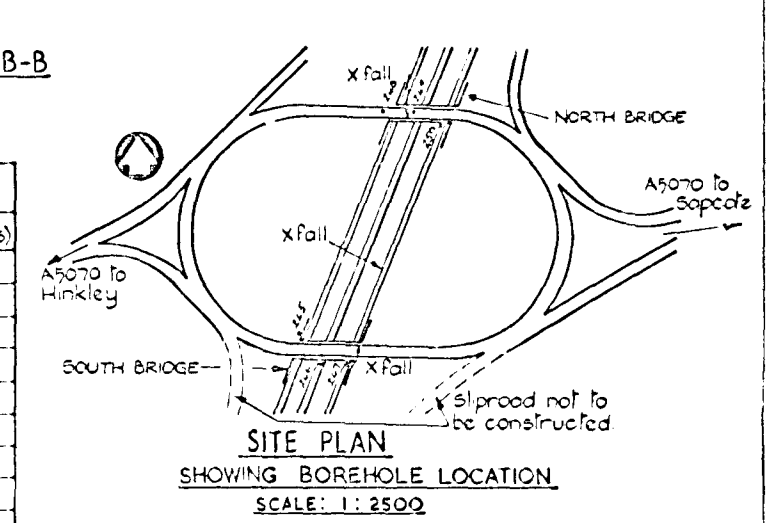
DIST FROM EP	TRUE CHANNEL	LEFT CHANNEL (L)	Road	RIGHT CHANNEL (R)
-24.032	370.000	109.979	109.858	109.797
-19.032	375.000	109.907	109.816	109.725
-14.032	380.000	109.829	109.754	109.643
-9.032	385.000	109.734	109.643	109.552
-4.032	390.000	109.632	109.541	109.460
+0.968	395.000	109.420	109.429	109.338
+5.968	400.000	109.398	109.307	109.216
+10.968	405.000	109.266	109.175	109.084
+15.968	410.000	109.125	109.034	108.943
+20.968	415.000	108.930	108.894	108.799
+25.968	420.000	108.794	108.760	108.671

A5070 - SOUTH BRIDGE

DIST FROM EP	TRUE CHANNEL	LEFT CHANNEL (L)	Road	RIGHT CHANNEL (R)
+23.151	50.000	109.194	109.063	108.972
+18.151	55.000	109.289	109.193	109.107
+13.151	60.000	109.416	109.323	109.234
+8.151	65.000	109.531	109.440	109.349
+3.151	70.000	109.637	109.546	109.455
-1.849	75.000	109.723	109.642	109.551
-6.849	80.000	109.819	109.728	109.627
-11.849	85.000	109.895	109.804	109.713
-16.849	90.000	109.960	109.869	109.778
-21.849	95.000	110.041	109.925	109.809
-26.849	100.000	110.117	109.971	109.825

MOTORWAY LEVELS

M/W CHANNEL	NORTH BRIDGE		SOUTH BRIDGE	
	RIGHT CHANNEL LEVEL	LEFT CHANNEL LEVEL	RIGHT CHANNEL LEVEL	LEFT CHANNEL LEVEL
15300.000	102.814	102.969	103.327	103.477
15310.000	102.878	102.932	103.295	103.448
15320.000	102.941	102.899	103.257	103.419
15330.000	102.998	102.876	103.216	103.387
15340.000	103.054	102.857	103.165	103.352
15350.000	103.109	102.842	103.110	103.317
15360.000	103.163	102.831	103.059	103.282



SETTING OUT
Changes of intersection of A5070 roundabout & M/W & North Bridge
A5070 roundabout ch 34.032
Motorway ch 15300.000
E Coord = 66.85.224
N Coord = 63899.577
Bearing of the tangent to motorway at intersection point is 27° 29' 46"

A5070 roundabout ch 73.151
Motorway ch 15195.000
E Coord = 66.12.95
N Coord = 63760.432
Bearing of the tangent to motorway at intersection point is 27° 29' 50"

The E of the tangent is tangential to the curve of the motorway at the IP.

- NOTES**
- For details of parapets see Drg No CM 469/18/10/44,45,46
 - For details of substructure drainage see Drg No CM 469/18/10/4
 - Edgings to be precast concrete 50mm x 150mm to BS360 Fig 11 with 75mm bed and surround in concrete, class C
 - For details of deck drainage refer to Drg No CM 469/18/10/9
 - For details of subsurfacing drainage see Drg No CM 469/18/10/10
 - For details of deck joints see Drg No CM 469/18/10/19
 - For details of articulation joints see Drg No CM 469/18/10/20 & 21
 - For details of substructure joints see Drg No CM 469/18/10/26
 - For details of installation of bearings see Drg No CM 469/18/10/12
 - For details of precast beams see Drg No CM 469/18/10/18 & 19
 - For details of guides see Drg No CM 469/18/10/11
 - For details of earthworks schedule for bridge works see Drg No CM 469/18/10/28
 - For details of precast duct covers see Drg No CM 469/18/10/3