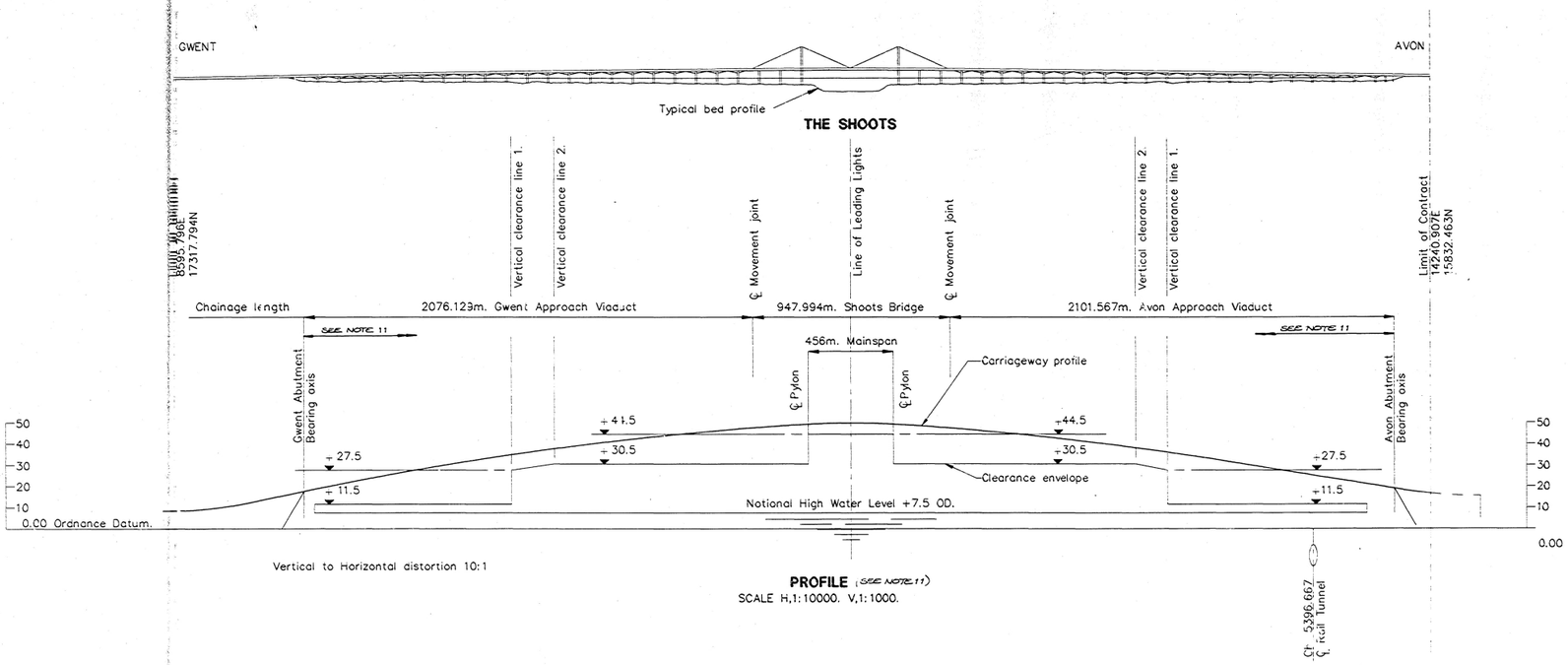
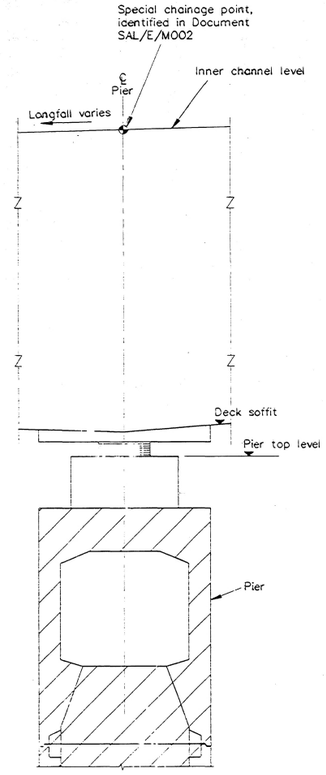


PROFILE (SEE NOTE 11)
SCALE H,1:10000. V,1:1000.

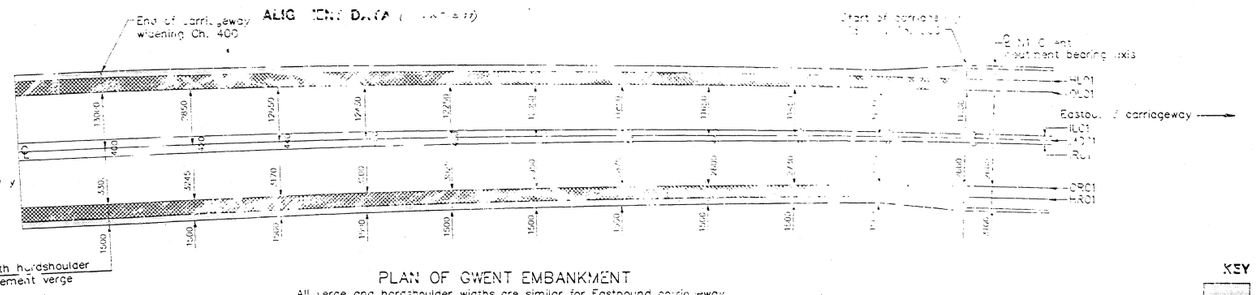


TYPICAL CENTRELINE SECTION AT A PIER
SCALE 1:50

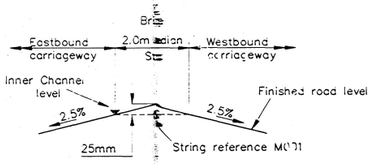
NOTES

1. These notes supplement those on Drawing No. SGN/E/1000.
2. All dimensions are in metres unless shown otherwise.
3. This drawing is to be read in conjunction with Document SAL/E/M002 Crossing Alignment.
4. For Avon slip road alignment details refer to Drawing No. SAL/E/1001.
5. All sections are taken looking up chainage.
6. Special chainage points at piers are the chainage of the intersection point between the centreline of the bridge and the vertical centreline of the pier, at deck inner channel level.
7. For detailed bridgeworks setting out information refer to drawings in the relevant Works sections.
8. String references chainage 0 to 607.085 are as follows :
   M001 – Centreline
   IL01 – Inner carriageway eage (left)
   IR01 – Inner carriageway eage (right)
   OL01 – Outer carriageway eage (left)
   OR01 – Outer carriageway eage (right)
   HL01 – Edge of hardshoulder (left)
   HR01 – Edge of hardshoulder (right)
   VL01 – Back of verge (left)
   VR01 – Back of verge (right)
9. For median strip and carriageway widths and road markings see Drawing nos SDF/E/1009 and SDF/E/1010.
10. Gwent and Avon bearing centrelines shall be taken as 115mm infront of the abutment bearing axes as defined hereon.
11. THEORETICAL DATA SHOWN; FOR "AS BUILT" INFORMATION REFER TO DRAWING SAL/E/1100 to 1346 INCLUSIVE & MORE FOR MAIN BRIDGE.

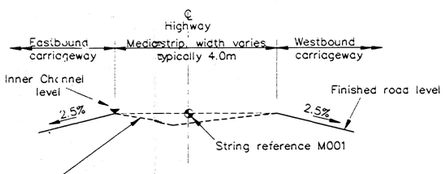
VERTICAL ALIGNMENT AND TANGENT POINT CHAINAGES	T.416	R=17000	379.500	R=160000	2896.969	R=40000	3417.422	R=160000	4974.366	−1.624 %	5747.085	R=23000	6120.629												
HORIZONTAL ALIGNMENT	Right hand arc 3000m. radius			Straight, bearing 112° 54' 54.3"						Left hand arc 4500m.radius				Straight, bearing 92° 28' 39.6"											
INNER CHANNEL LEVEL	8.500	12.104	17.604	25.301	31.800	34.624	37.493	40.538	48.888	49.085	49.426	49.110	49.888	47.422	44.035	33.107	31.129	40.761	40.005	18.861	18.528	16.632	15.585		
CENTRELINE CHAINAGE	0.000	607.085	1000.000	1378.282	1561.365	1763.085	2000.000	2429.211	2500.000	2595.211	3022.443	4000.000	5732.723	5902.218											
CENTRELINE LEVEL OF BRIDGE DECK ON MEDIAN STRIP		17.629	25.326	31.825	34.649	37.518	40.563	49.110	49.401	49.110	47.441	44.000													
CENTRELINE BEARING AT LIMIT OF CONTRACT	86° 35'30.6"																								



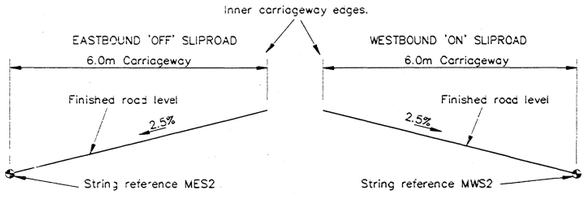
PLAN OF GWENT EMBANKMENT
All verge and hardshoulder widths are similar for Eastbound carriageway
All widths are in millimetres.
Scale 1:1000



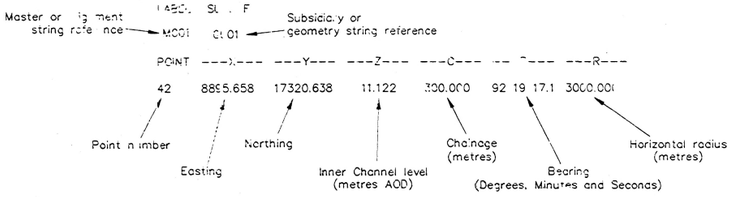
SETTING OUT REFERENCE STRING BRIDGEDECK
SCALE H,1:5. V,1:5.



SETTING OUT REFERENCE STRING EMBANKMENTS
SCALE H,1:50. V,1:5.
(for median strip profile and construction details see Drgs SRW/E/1001 and SRW/E/1062)



SETTING OUT REFERENCE STRINGS AVON SLIPROADS
SCALE H,1:50. V,1:5.



TYPICAL FORMAT FOR REFERENCE STRING ALIGNMENT DATA

KEY
Non-pavement verge
Hardshoulder (incl. bridgeworks)

1:10000 — 1:1000 — 1:50 — 1:5

REV	DATE	DRAWN	VER	A-PROV	AMENDMENT	STATUS	CHECKER
G	16/01/96	DSB	GJK	DHM	AS BUILT DRAWING	ABD	
F	25/2/93	pdW			Note 10 added. Abutment bearing centrelines renamed bearing axes. Scan lengths amended	MIC	
E	1/92	MJH	MP	JMT	Revised to 04 Approved by Checker for Construction issue.	CI	CHECKED 26/2/92
D	6/92	TSD	MP	JMT	Approved by Checker for Construction issue	CI	
C	4/92	SAMc	MP	GEY	Checkers comments issue incorporated (Note 8 added. Carriageway widths added)	FCH	
B	10/91	PJ	DRH	MP	Checkers comments incorporated D1, E1, D5, note 1 altered.	FCH	
A	8/91	MCC	DRH	MP	M joints moved B3	FCH	
–	6/91	MCC	DRH	MP	Initial issue	FCH	

Severn River Crossing Plc
LAING GTM

SECOND SEVERN CROSSING

DRAWING TITLE
VERTICAL AND HORIZONTAL ALIGNMENT

HALCROW S.E.E.E
Originator's Drawing No SAL/E/0002 Rev B

Independent Checker Signature
Date
Revision
Scale 1:10000, 1:1000, 1:50, 1:5.

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Drawing Number SAL/E/1000
Rev. G

SAL/E/1000.

ABD