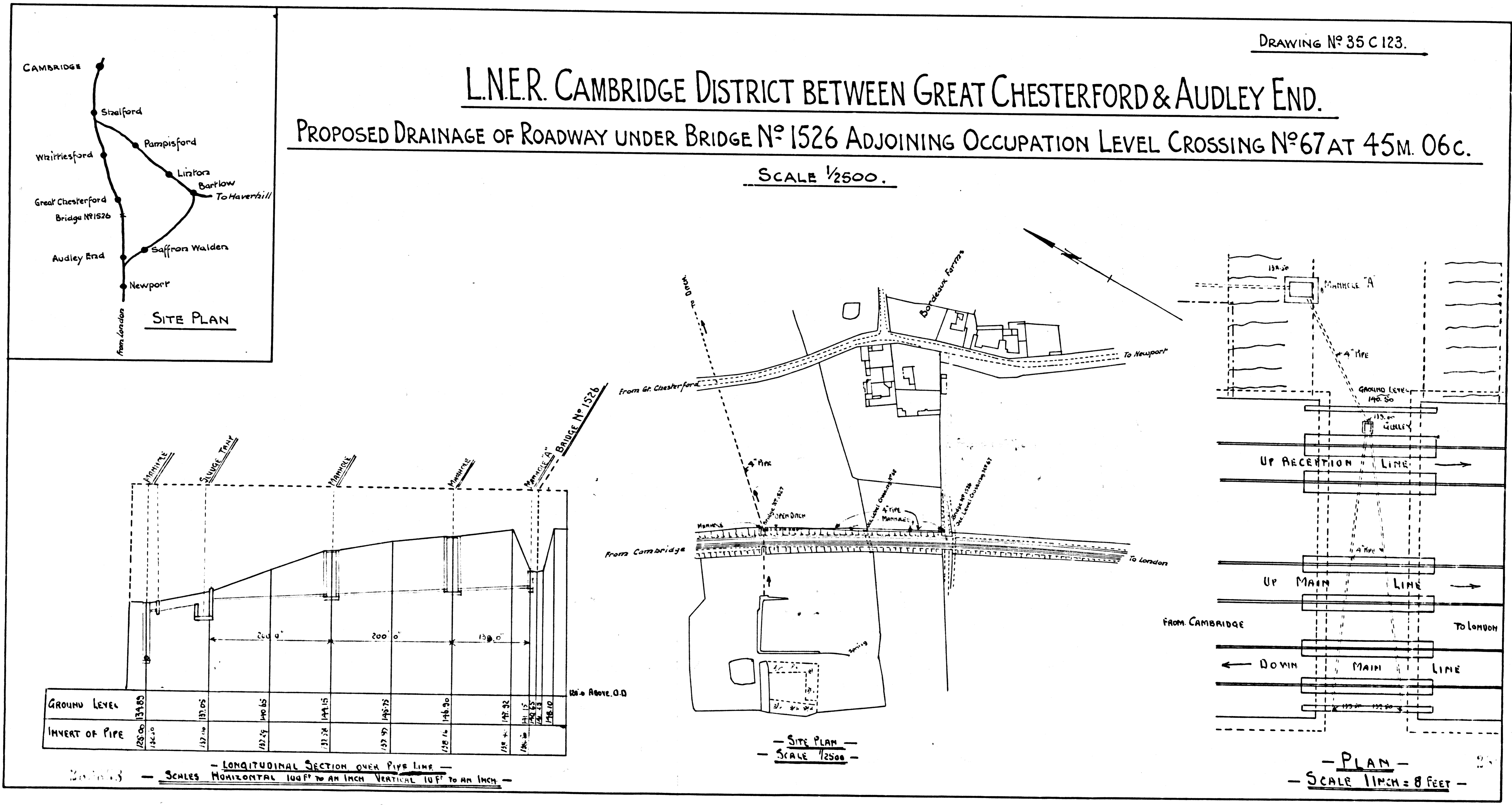
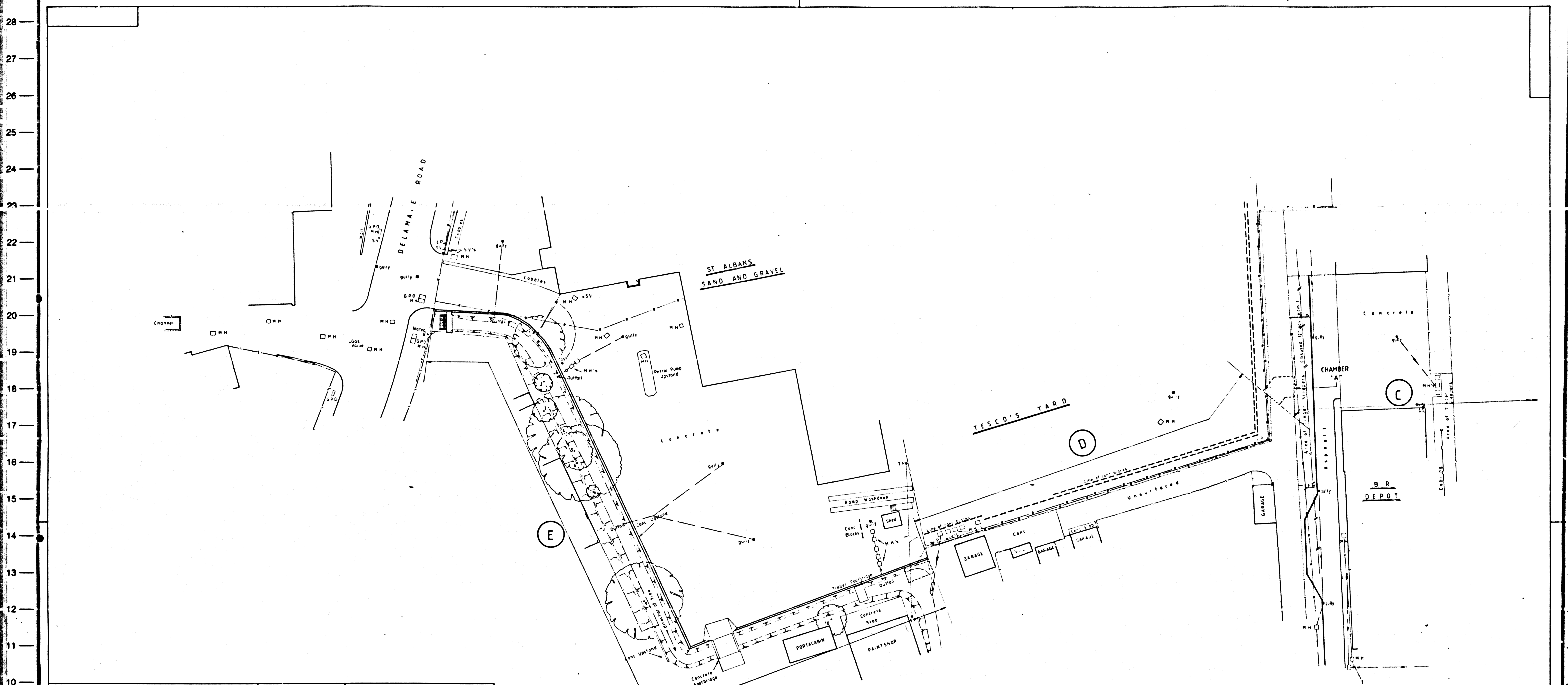


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SECTION N° AND EXTENT OF WORKS	PART BILL N°	DURATION OF TEMPORARY OCCUPATION
(C) WORKS MEASURED IN THIS PART BILL GENERALLY RUN BETWEEN R D 47 00 m TO R D 117 00 m	4	20 WEEKS DURATION
(D) WORKS MEASURED IN THIS PART BILL GENERALLY RUN BETWEEN R D 117 00 m TO R D 178 00 m	5	12 WEEKS DURATION TEMPORARY OCCUPATION IN TESCO'S IS FOR THE MAJORITY IN SECTION C OF THE CONTRACT BUT ALSO FOR A LESSER PART IN SECTION D DURING CONSTRUCTION WORK OF SECTION C. TEMPORARY OCCUPATION WILL BE FOR 100m FROM THE BACK FACE OF CHAMBER 'A' AND WILL IN NO WAY INTERFERE WITH TESCO'S PARKING FACILITIES AND SHALL BE CARRIED OUT TO THEIR SPECIFIC REQUIREMENTS.
(E) WORKS MEASURED IN THIS PART BILL GENERALLY RUN BETWEEN R D 178 00 m TO R D 290 20 m	6	12 WEEKS DURATION

- LEGEND**
- Electricity
 - Gas
 - Sewer (Surface Water)
 - Sewer (Foul)
 - Telephones
 - Water

5A/21/1422A/5

ISSUE DATE AMENDMENT

Thames Water
Rivers Division (Lee Area)

WINDMILL LANE DITCH — CHESHUNT
SITE PLAN OF SERVICES (1)

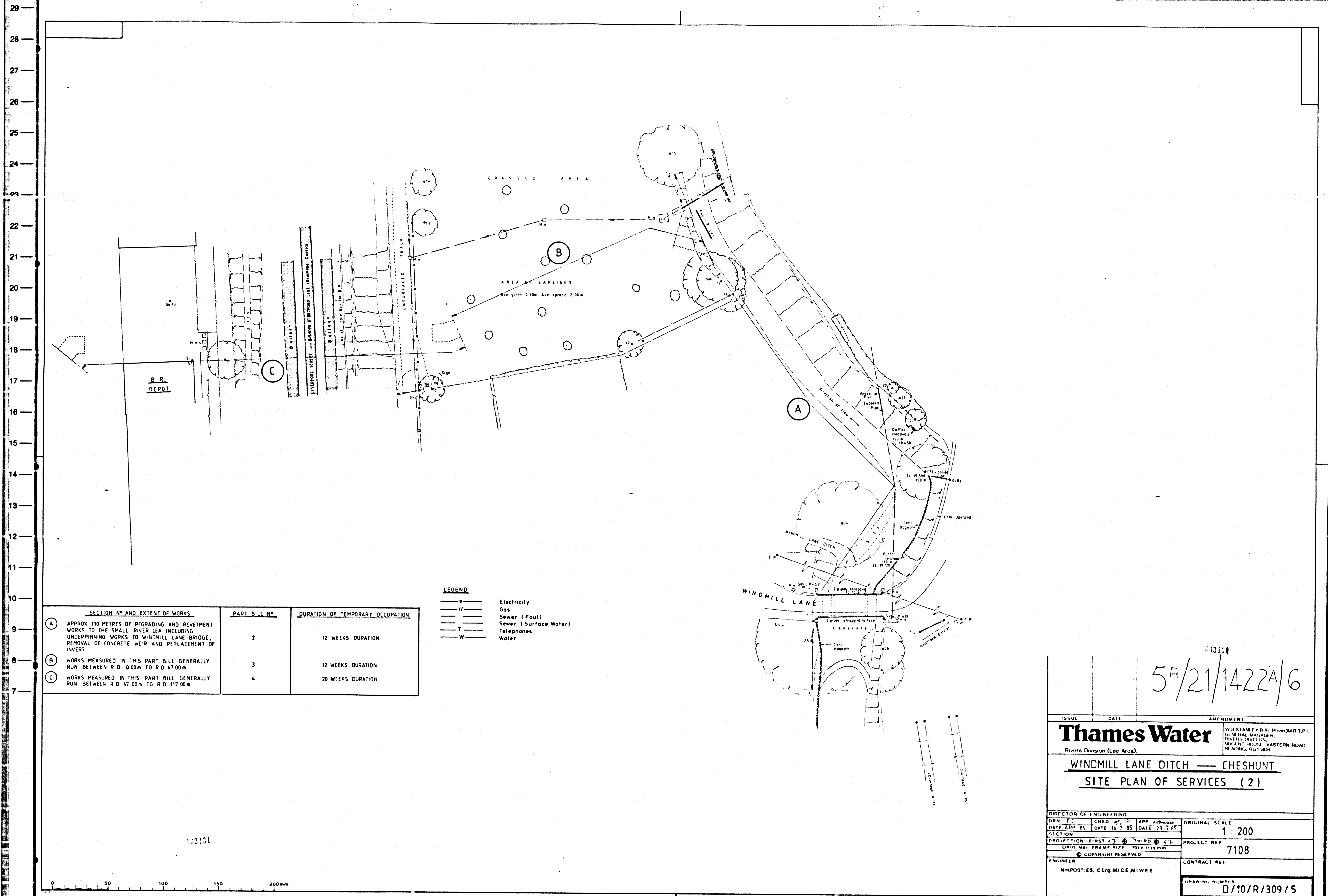
DIRECTOR OF ENGINEERING
DRN T. CHOD P. P. APP. M. M. P.
DATE 24.7.85 DATE 16.7.85 DATE 23.7.85 ORIGINAL SCALE 1:200

SECTION PROJECT REF 7108

PROJECTION FIRST THIRD ORIGINAL FRAME SIZE 791 x 1130 mm PROJECT REF 7108

ENGINEER CONTRACT REF
NHPOSTLES, CENG. MICE M.I.W.E.S.

DRAWING NUMBER
D/10/R/309/4



SECTION N° AND EXTENT OF WORKS	PART BILL N°	DURATION OF TEMPORARY OCCUPATION
(A) APPROX 110 METRES OF REGRADING AND REVETMENT WORKS TO THE SMALL RIVER LEA INCLUDING UNDERPINNING WORKS TO WINDMILL LANE BRIDGE, REMOVAL OF CONCRETE WEIR AND REPLACEMENT OF INVERT	2	12 WEEKS DURATION
(B) WORKS MEASURED IN THIS PART BILL GENERALLY RUN BETWEEN RD 0.00m TO RD 47.00m	3	12 WEEKS DURATION
(C) WORKS MEASURED IN THIS PART BILL GENERALLY RUN BETWEEN RD 47.00m TO RD 117.00m	4	20 WEEKS DURATION

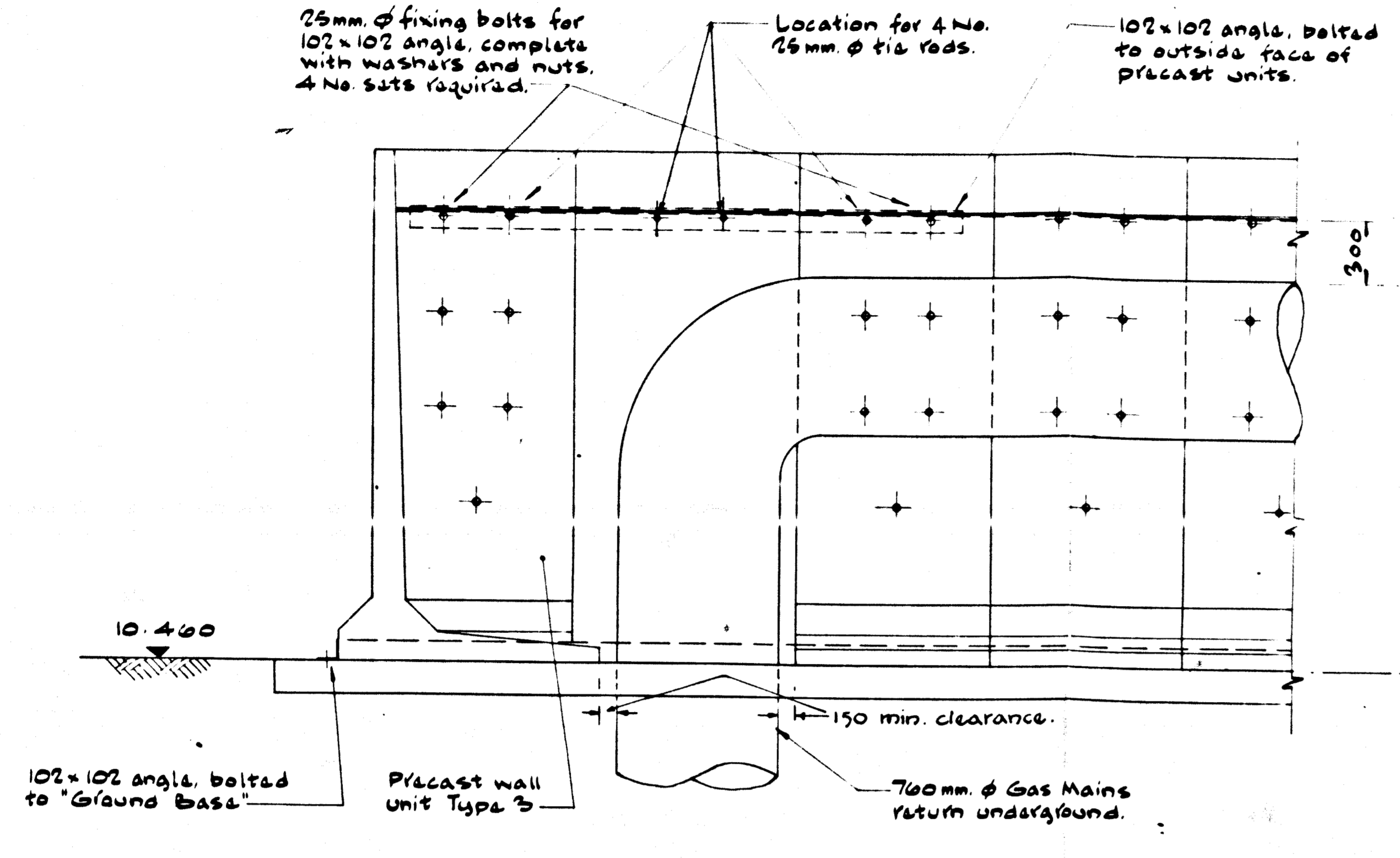
LEGEND

- Electricity
- //— Gas
- - - Sewer (Foul)
- - - Sewer (Surface Water)
- T— Telephones
- W— Water

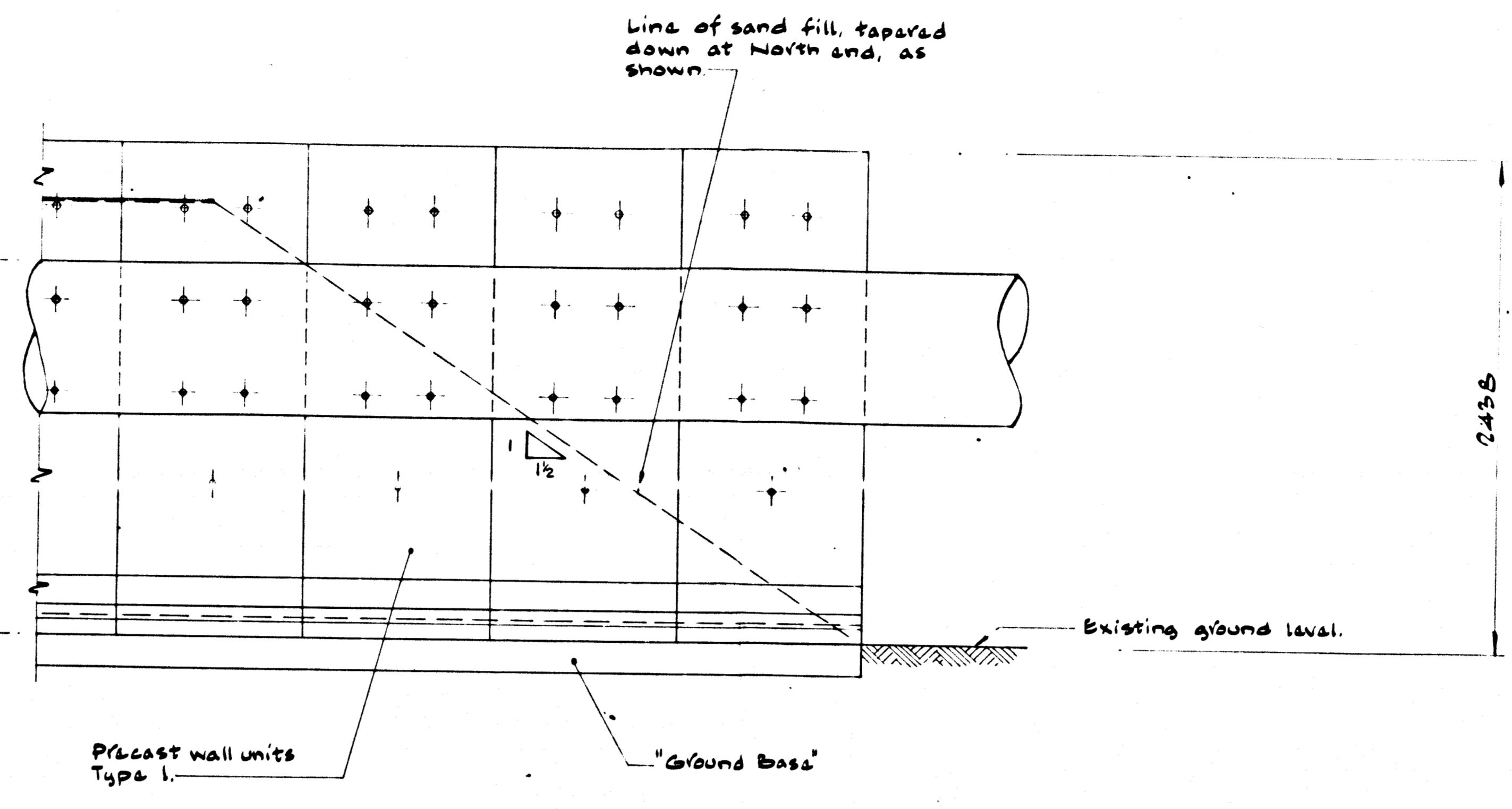
403130
5^A/21/1422A/6

ISSUE	DATE	AMENDMENT
Thames Water		W.S. STANLEY R. Sr. (ECON. M.R.T.P.) GENERAL MANAGER, RIVERS DIVISION, RIVER HOUSE, VASTERN ROAD, READING, RG1 1BN
Rivers Division (Lee Area)		
WINDMILL LANE DITCH — CHESHUNT		
SITE PLAN OF SERVICES (2)		
DIRECTOR OF ENGINEERING		
DRW: TC	CHKD: JF	APP: JF
DATE: 23-7-85	DATE: 16-7-85	DATE: 23-7-85
SECTION	ORIGINAL SCALE	
	1 : 200	
PROJECTION: FIRST ANGLE THIRD ANGLE	PROJECT REF	
ORIGINAL FRAME SIZE: 791 x 1119 mm	7108	
© COPYRIGHT RESERVED		
ENGINEER	CONTRACT REF	
NHPOSTIES, C.ENG. MICE, MIWEE		
DRAWING NUMBER		
D/10/R/309/5		

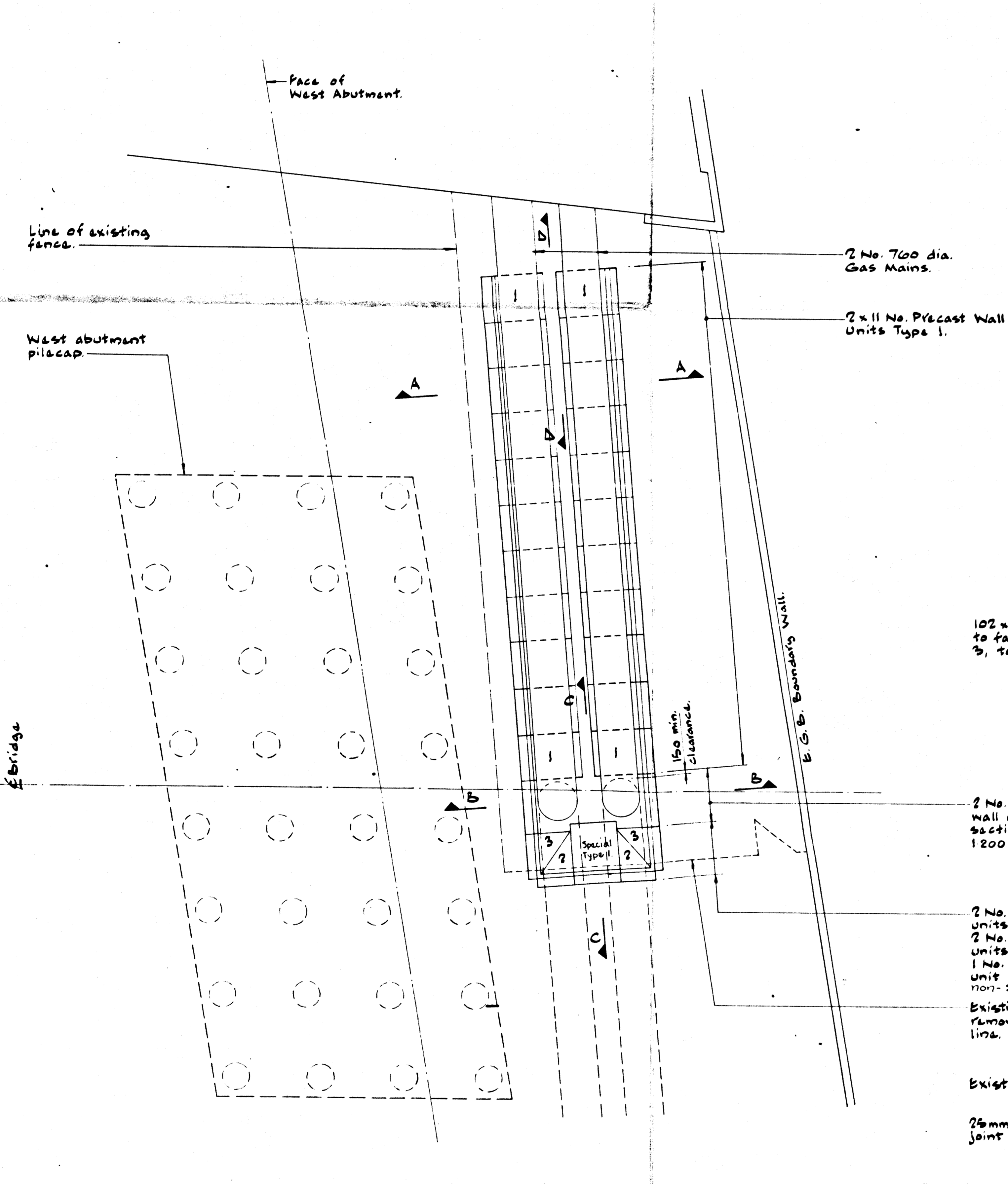
W/5427/115



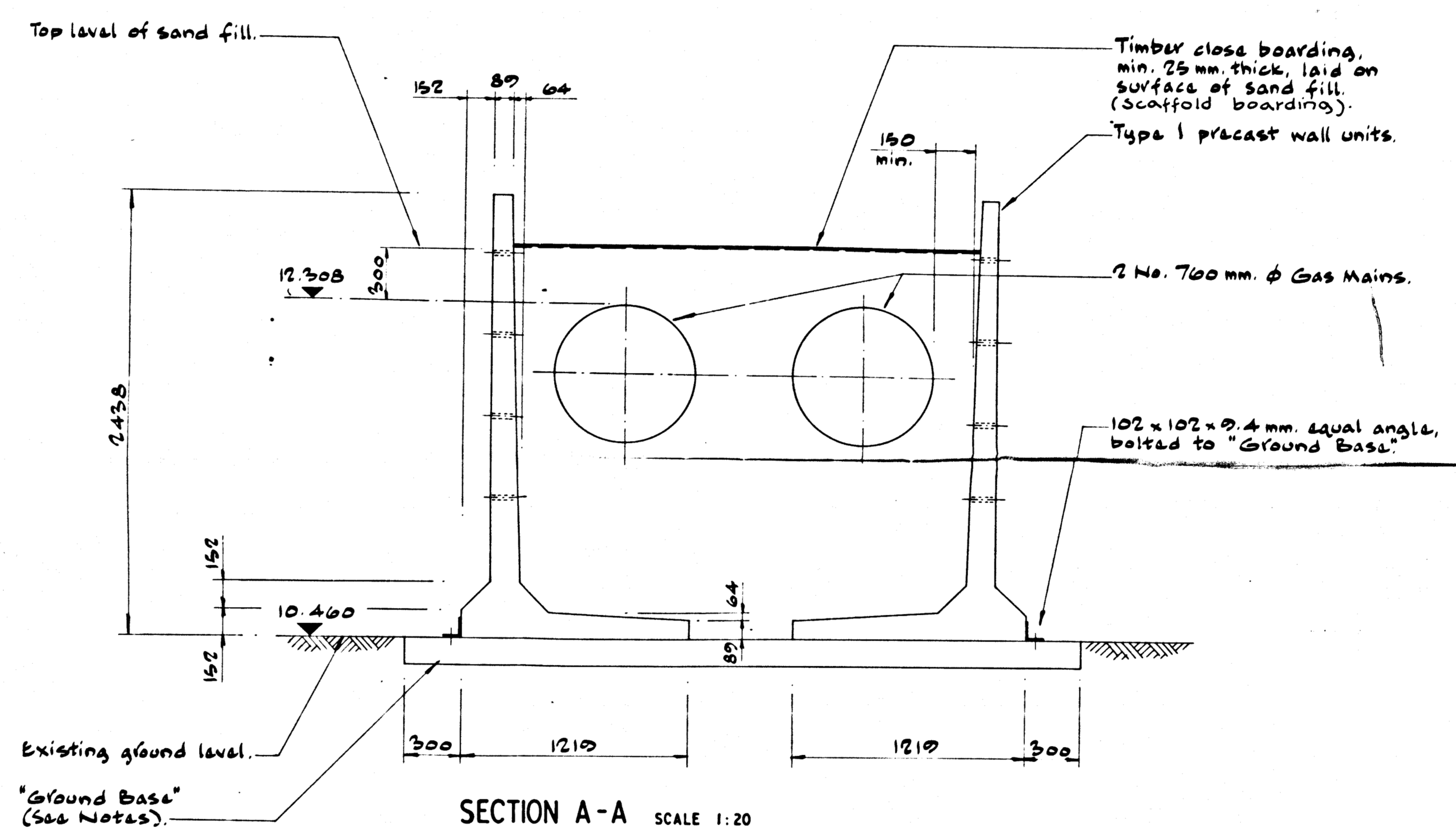
SECTION C-C SCALE 1:20



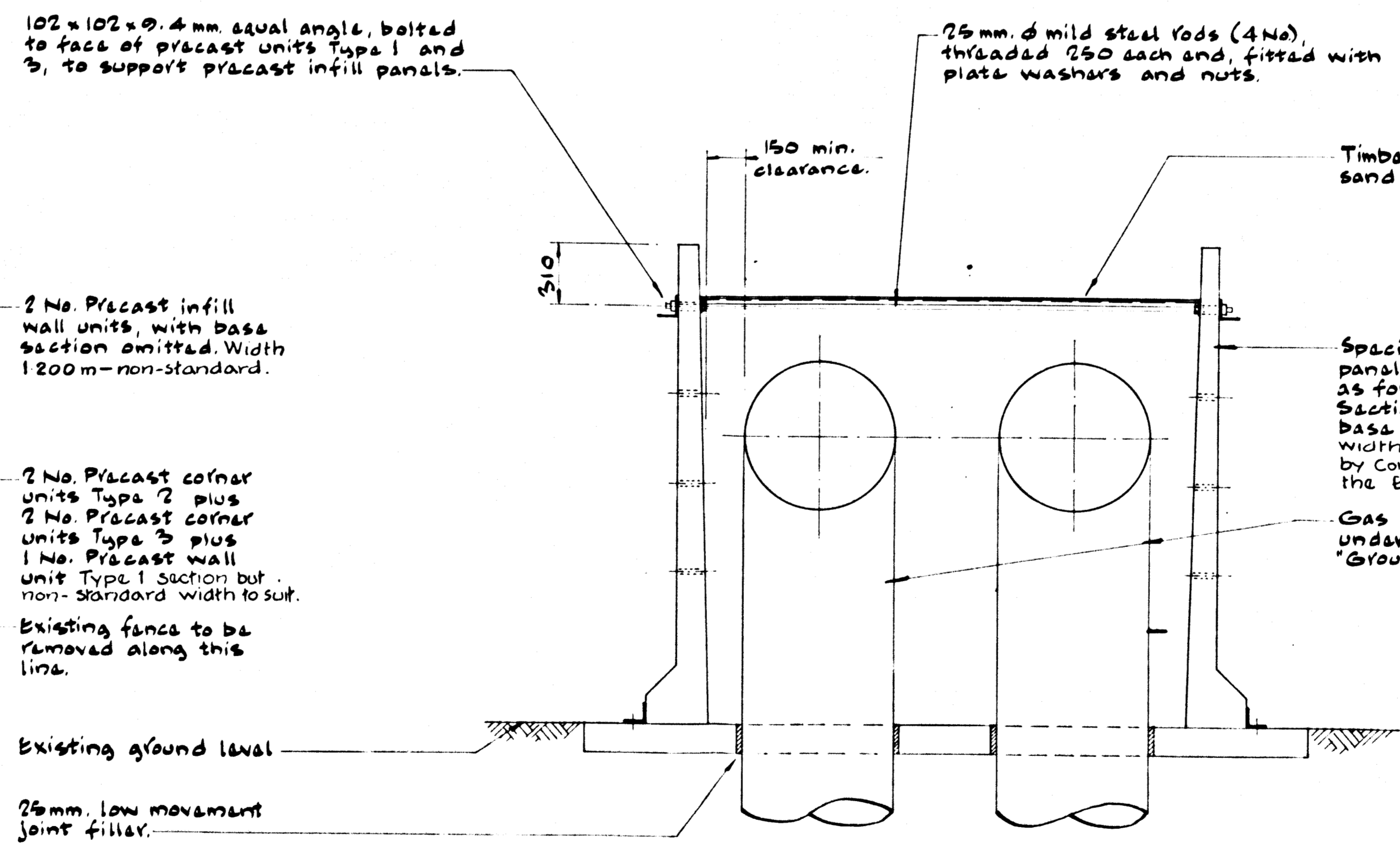
SECTION D-D SCALE 1:20



PLAN SCALE 1:50



SECTION A-A SCALE 1:20



SECTION B-B SCALE 1:20

NOTES

- The precast concrete retaining wall units shall be "Belcon" or similar units approved by The Engineer.
- The method of handling, placing and securing the units into position, and removing them on completion of the works, shall be approved by The Engineer.
- The Contractor will not be permitted to operate lifting plant in the vicinity of the Gas Mains until these temporary works have been installed complete.
- The units shall be bedded upon a 25 mm thick bed of Class 1 cement mortar, upon a "Ground Base" which shall be either:
 - A Class 22/5/20 in situ concrete slab, 150 mm thick, with a single layer of A252 mesh reinforcement in the top, or
 - 250 x 125 timber sleepers, laid transverse to the line of the Gas Mains.
- The units shall be secured by a 102 x 102 x 9.4 mm thick steel angle section, bolted to the "Ground Base" and a similar steel angle used to support the top of the "infill panels" where the Gas Mains return underground.
- Sand filling shall consist of sand complying with the requirements of BS 687.
- On completion of the bridgeworks, these temporary works shall be removed by The Contractor, and the precast units will become the property of Eastern Gas. The Contractor shall deliver the units to an Eastern Gas Depot, a distance not exceeding 2 miles from the site, as directed by The Engineer.
- All units shall be Type B Units i.e. designed to retain materials with pressures up to 1000 kg per cu metre of maximum surcharge.

EASTERN GAS

British Gas Corporation
Eastern Region
Subarea: C Bedford FRICS
Star House, Parkway, Box
Hemel Hempstead, EN9 2PD.

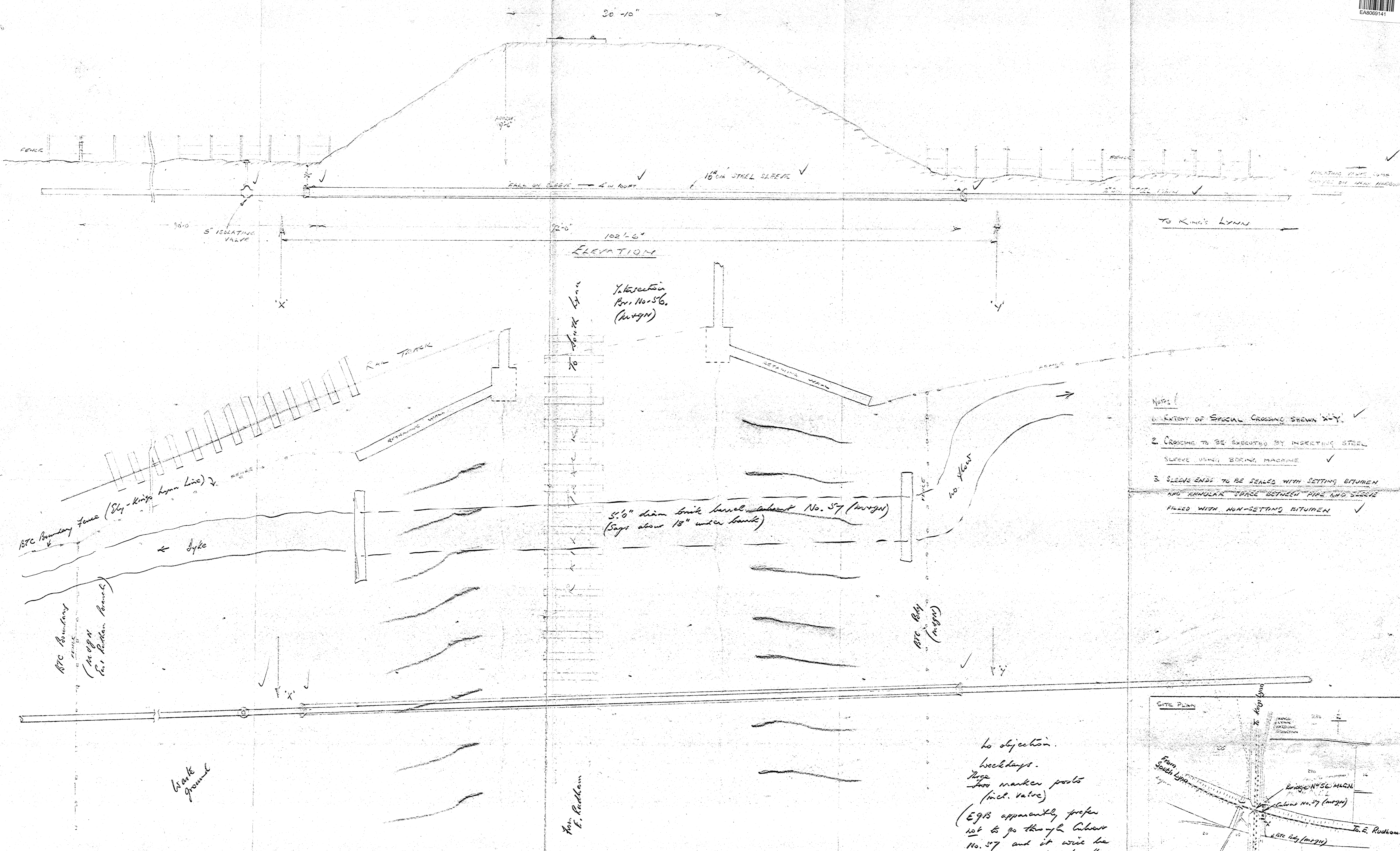
HARINGEY
STRUCTURAL DIVISION
Engineering & Surveying
Borough Engineer and Surveyor
G.R. Stephens C.Eng. MICE FIMMUE
LEESIDE ROAD
RAILWAY UNDERBRIDGE

SPECIAL TEMPORARY
PROTECTION TO
"ABOVE GROUND"
GAS MAINS

DATE	1:50, 1:20
DRAWN	D.C.
CHECKED	MARCH 1978
APP'D	W/5427/115

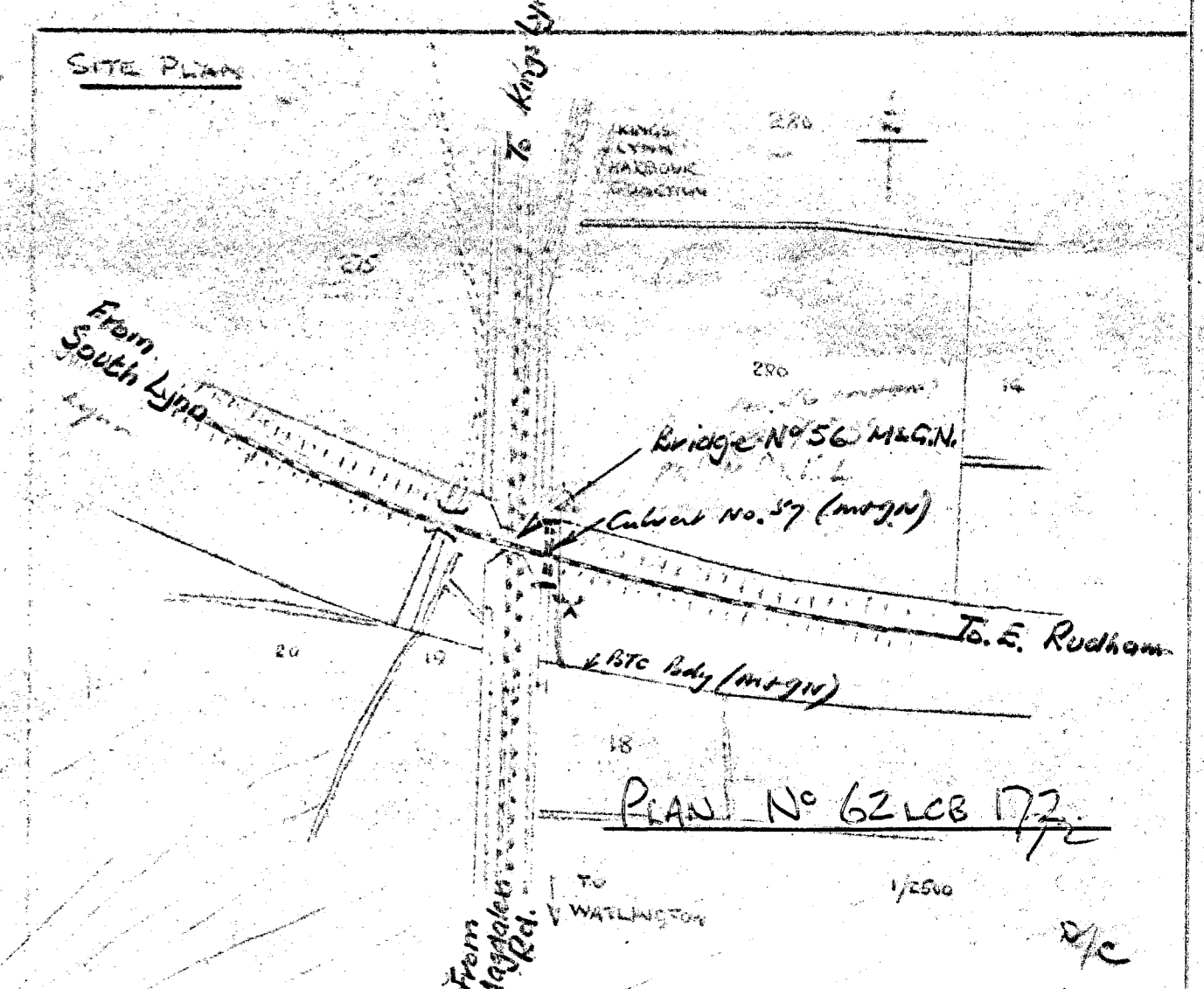
5/BGK/1401B/14

RAILTRACK + - mter



- Notes
1. EXTENT OF SPECIAL CROSSING SHOWN 'X-Y' ✓
 2. CROSSING TO BE EXECUTED BY INSERTING STEEL SLEEVE USING BORING MACHINE ✓
 3. SLEEVE ENDS TO BE SEALED WITH SETTING BITUMEN AND ANNULAR SPACE BETWEEN PIPE AND SLEEVE FILLED WITH NON-SETTING BITUMEN ✓

No objection.
 backdays.
 Three
 two marker posts
 (incl. valve)
 (Egib apparently prefer
 not to go through Culvert
 No. 57 and it will be
 better for us, too, for them
 not to go through it as it
 might complicate piping it
 as a later date).



WISBECH / KING'S LYNN INTEGRATION SCHEME
 DETAILS OF 8" DIA. H.P. STEEL GAS MAIN UNDER
 RAILWAY NR. HARBOUR JUNCTION

EASTERN GAS BOARD
 CAMBRIDGE DIVISION

KEY

SCALES

3/16" = 1 FOOT

DATE	MODIFICATIONS	INITIAL	DIVISIONAL DISTRIBUTION DEPARTMENT				
A			DRAWN	CHECKED	TRACED	PASSED	APPROVED
B			C.W.M.				
C			27-2-62				

PROJECT No. CH/282 DRAWING No. 21-10/30/29

10.00 ABOVE ASSUMED DATUM

UP GOODS

DOWN GOODS

BRIDGE No. 1401^c (GAS WORKS CONVEYOR) BTN. NORTHUMBERLAND PARK & ANGEL ROAD

UP MAIN

DOWN MAIN

SIDING

SIDING

SIDING

302228

302228

DRAWN
A. P. O.
CHECKED

LEA VALLEY LINE
GAS WORKS CONVEYER
BRIDGE No. 1401^c

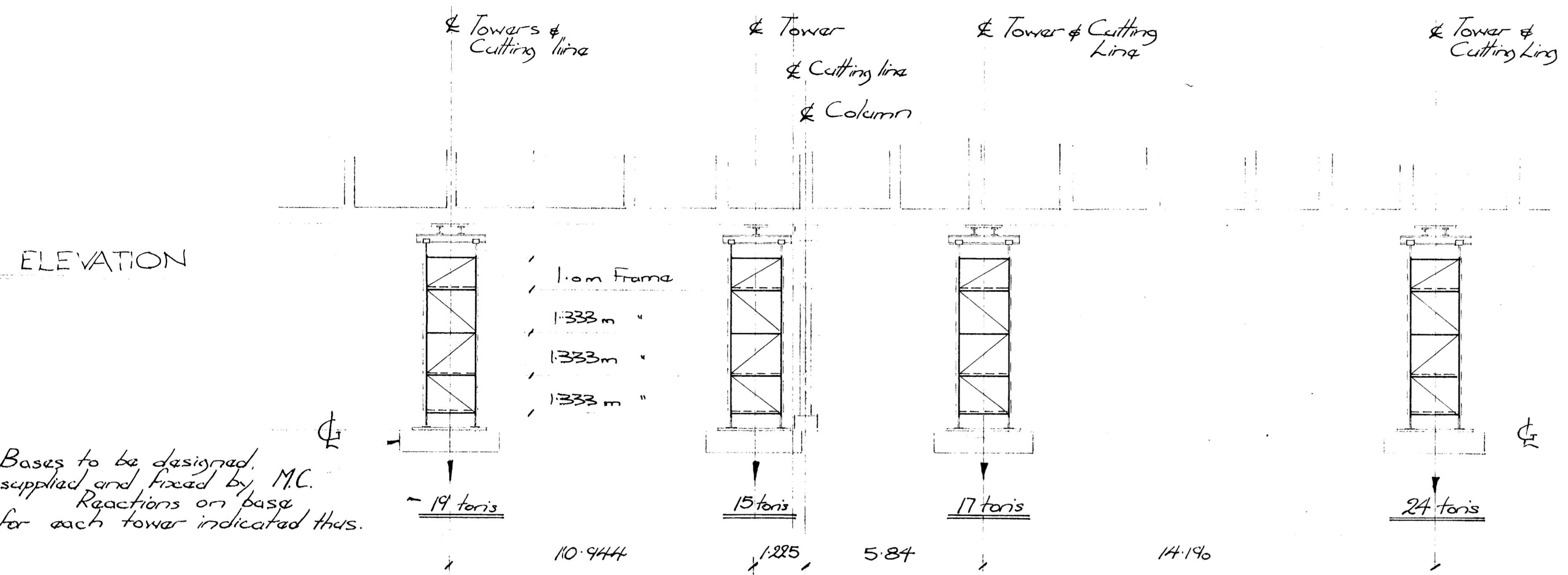
SCALE
1/2 IN. TO 1 FT.
DATE
27. 8. 59

DRG. No.
59LC2/249

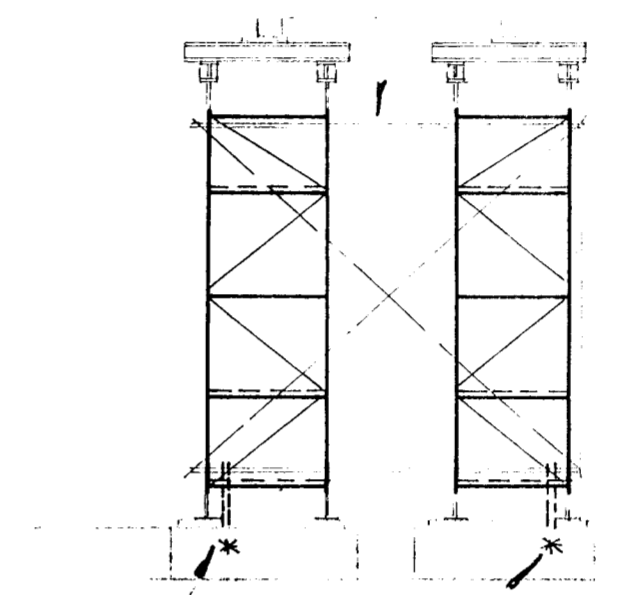
GENERAL NOTES

- A. This drawing is confidential and is the exclusive property of Scaffolding (Great Britain) Limited. No unauthorised use, copy, or disclosure is to be made, and it is to be returned upon request.
- B. This drawing has been prepared from details supplied to us by the customer, who should check that we have correctly interpreted his requirements and that all loadings, dimensions, details, erection and striking sequences, etc., are correct and practicable. No alteration in the loading to be made without reference to SGB Design Office.
- C. The following drawings, obtained on loan from the customer, have been used to prepare this scheme:

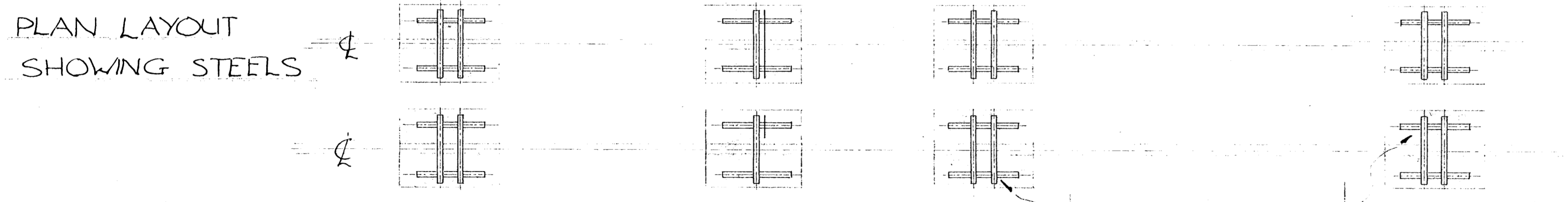
P 2130/1
- D. The following assumptions have been made:
- E. The customer is to ensure that the ground and/or base provided for our scaffold is adequate to support the loads to be applied without settlement, including the provision of any necessary spreaders.
- F. The customer is to ensure that adequate facilities for tying our structure are made available and are maintained. No ties or braces are to be removed without reference to our supervisor.
- G. As scaffold boards are often moved after we have placed them in position, we would remind the customer that it is their responsibility to ensure that the working platforms comply with Regulations at all times.
- H. No sheeting, wind protection or fans etc., to be added to the structure detailed on this drawing. Where such is required the provision of adequate ties and anchors must be arranged specifically with SGB Design Office.
- I. Where this drawing indicates a support system for new concrete, then the customer is responsible for accurately setting out the precise location of the concrete beams, diaphragms, voids, slabs etc. in order that the scaffolding can be properly positioned to support same.
- K. If foundation levels are indicated on this drawing then the customer must set out and strictly adhere to same.
- L. Should additional materials be added to this scheme at the request or instruction of the Customer, Main Contractor, Architect, Engineer, Consultant, or Local Authorities, then an additional charge for same will be made.
- M. Loading for concrete support schemes.
 - Concrete: 150lbs per cubic foot or 2400Kg per metre cube
 - Shutter: 10 lb per square foot or 49Kg per metre squared.
 - Live Load: 40 lbs per square foot or 195Kg per metre squared.
- N. Maximum Leg Load: 6.6 tons
Maximum Lift Height: 13.33 m



Pairs of Towers to be tied together with tube, top and bottom and braced.



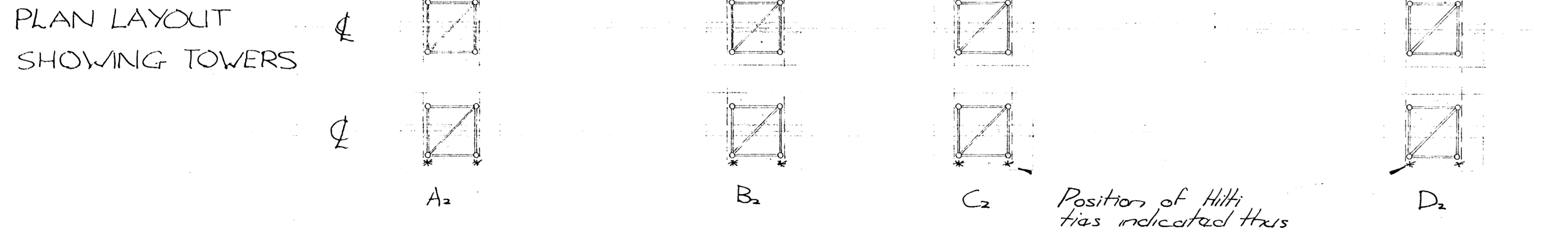
Both outside legs of towers to be Hilti anchored to base.



TOWER	STEEL PRIMARY	STEEL SECONDARY
A ₁	9" 4" x 7"	9" 4" x 7"
A ₂	9" 4" x 7"	9" 4" x 7"
B ₁	12" 6" x 7"	9" 4" x 7"
B ₂	12" 6" x 7"	9" 4" x 7"
C ₁	9" 4" x 7"	9" 4" x 7"
C ₂	9" 4" x 7"	9" 4" x 7"
D ₁	12" 6" x 7"	9" 4" x 7"
D ₂	12" 6" x 7"	9" 4" x 7"

Totals = 6 @ 12" 6" x 7"
24 @ 9" 4" x 7"

9" 1 1/2" timber packing between bridge and steels to act as leveler.
9" 1 1/2" timber sole board between bases and concrete base to act as leveler.



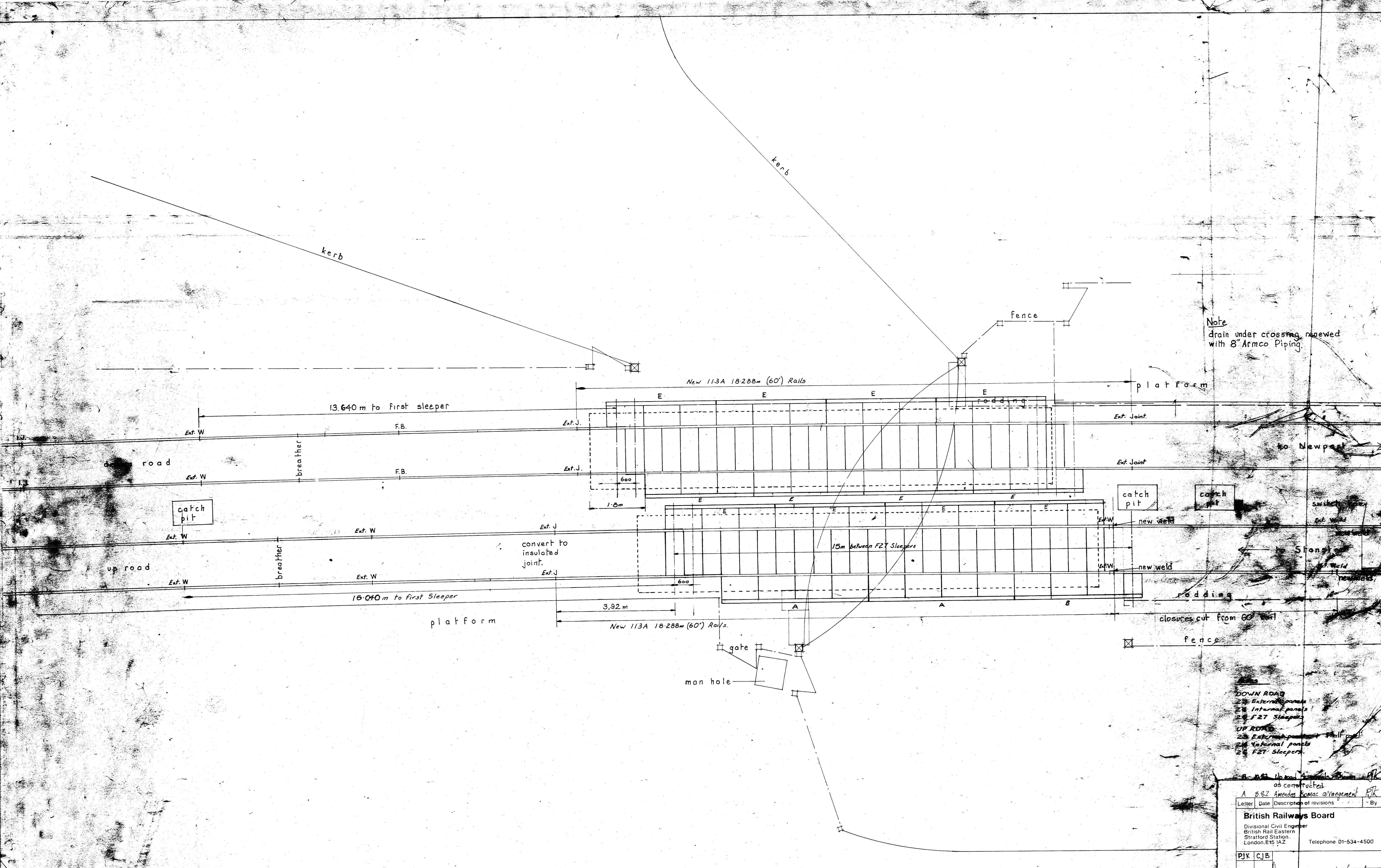
Main Contractor to:-
Ensure that all loads and dimensions are adequate and correct.
Supply, design, and fix any necessary bases.
To do all cutting away and making good as necessary.
To gain all necessary planning permission, permits etc.
Read general notes.
Approve scheme prior to dry erection.

Loads
As indicated on drawing

SGB - the originators of tubular scaffolding!

TITLE Proposed bridge support
MAIN CONTRACTOR Tottenham Cras Works DEPOT Waltham X

REVISIONS	DATE 3 Feb 1978
	DRAWN BY SSL
	CHECKED BY
	SCALE 1:100
	DRAWING No. A/CL 5016 / 1



Note
 drain under crossing renewed
 with 8" Armco Piping.

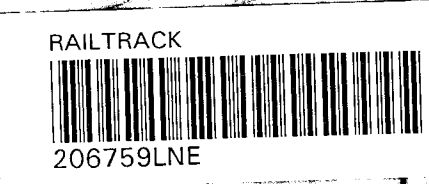
DOWN ROAD
 28 External panels
 28 Internal panels
 28 F2T Sleepers
 UP ROAD
 28 External panels
 28 Internal panels
 28 F2T Sleepers

Letter	Date	Description of revisions	By
A	25.6.82	Amended BOMAC arrangement	PK

as constructed

British Railways Board	
Divisional Civil Engineer British Rail Eastern Stratford Station London, E15 1AZ Telephone 01-534-4500	
PK	CJB
Bec	J.W. Doidge 25.6.82 Divisional Civil Engineer
Elsenham Level Crossing Surveyed June 1982 Layout of BOMAC Panels and Sleepers.	
Scale	1:50
File Numbers	
Drawing Number	82 SF III

Key
 J rail joint
 W welded rail joint
 I.J. insulated joint



C.C.E. Drg No. 83-YWP-3

