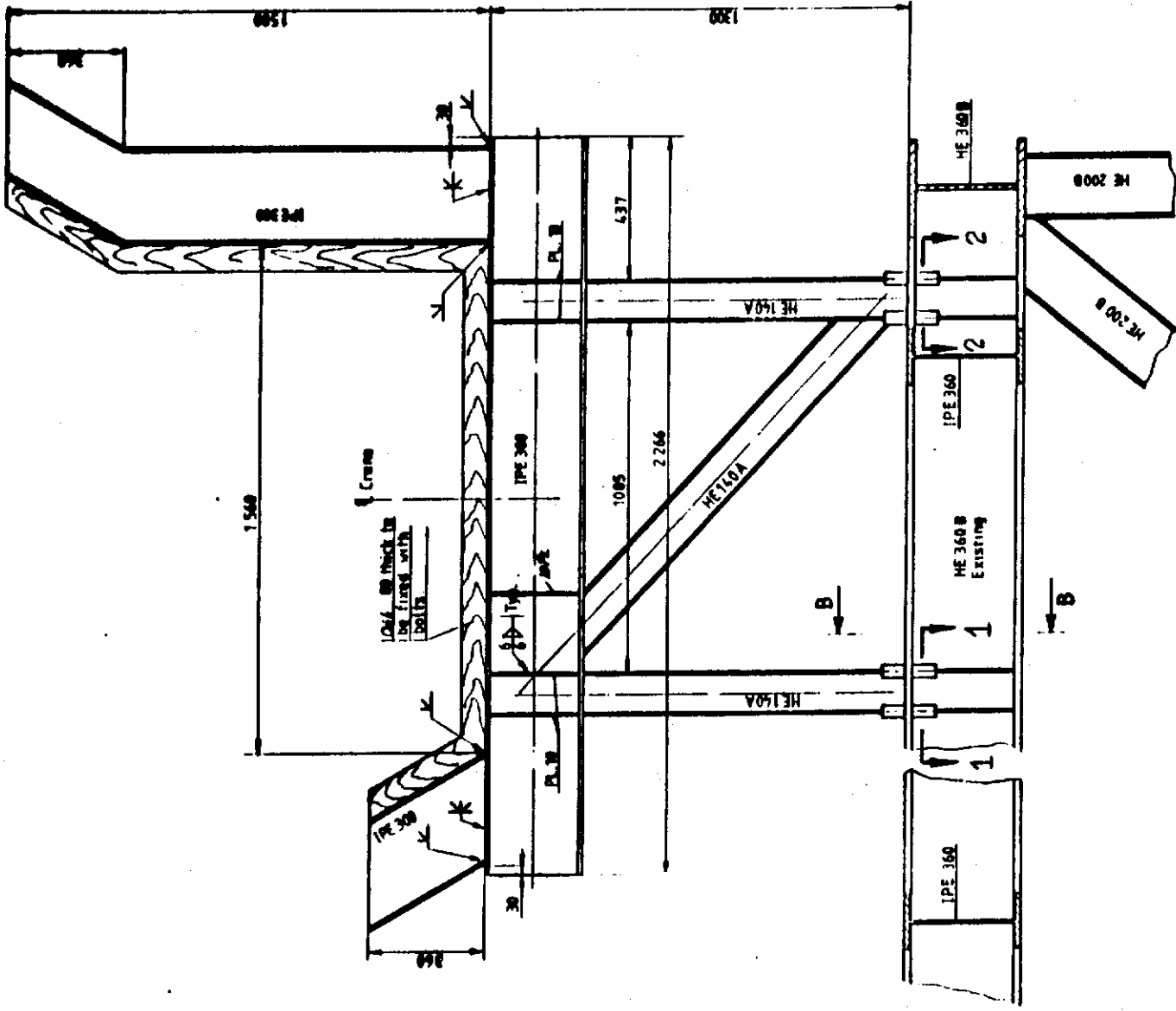




INSIDE MODULE OUTSIDE MODULE

SECTION 2-2

SECTION 1-1

WELD N°	32	34
DATE	11.5.84	12.5.84
WELDER N°	3	3
NDT REP		

WELD N°	33
DATE	12.5.84
WELDER N°	3
NDT REP	

WELD N°	37
DATE	2.5.84
WELDER N°	3
NDT REP	

WELD N°	38
DATE	2.5.84
WELDER N°	3
NDT REP	

WELD N°	31
DATE	11.5.84
WELDER N°	3
NDT REP	

WELD N°	35
DATE	1.5.84
WELDER N°	3
NDT REP	

WELD N°	36
DATE	1.5.84
WELDER N°	3
NDT REP	

WELDER
No 3 A KAYHTY.

THIS DRAWING AND THE TECHNICAL INFORMATION IT NOT BE USED FOR REPRODUCTION OR DISTRIBUTION WITHOUT THE PERMISSION OF C.E.C.

REV.	DESCRIPTION	BY	DATE

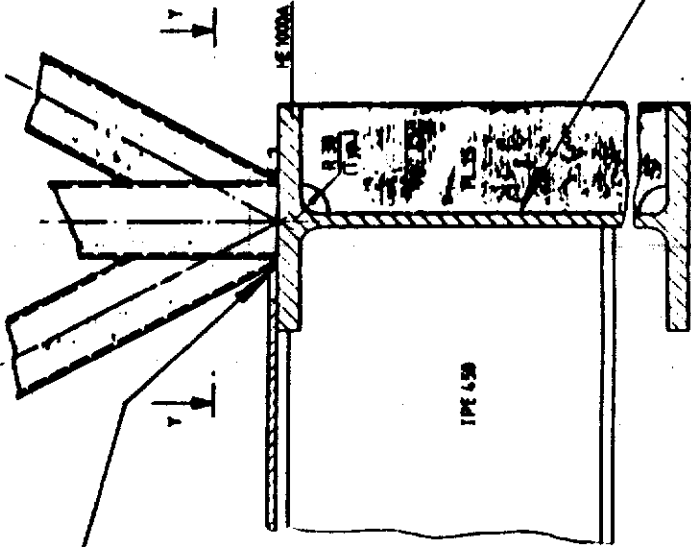
C-E.C.
Con-Ecosse Co. Ltd.
Victoria Chambers Engineers & Contractors
 42 Frederick Street Tel. 72385
 EDINBURGH EH2 1EX Tel. 031-225 3672

BY **L SMITH** DATE **JULY 84**

CHECKED APPROVED

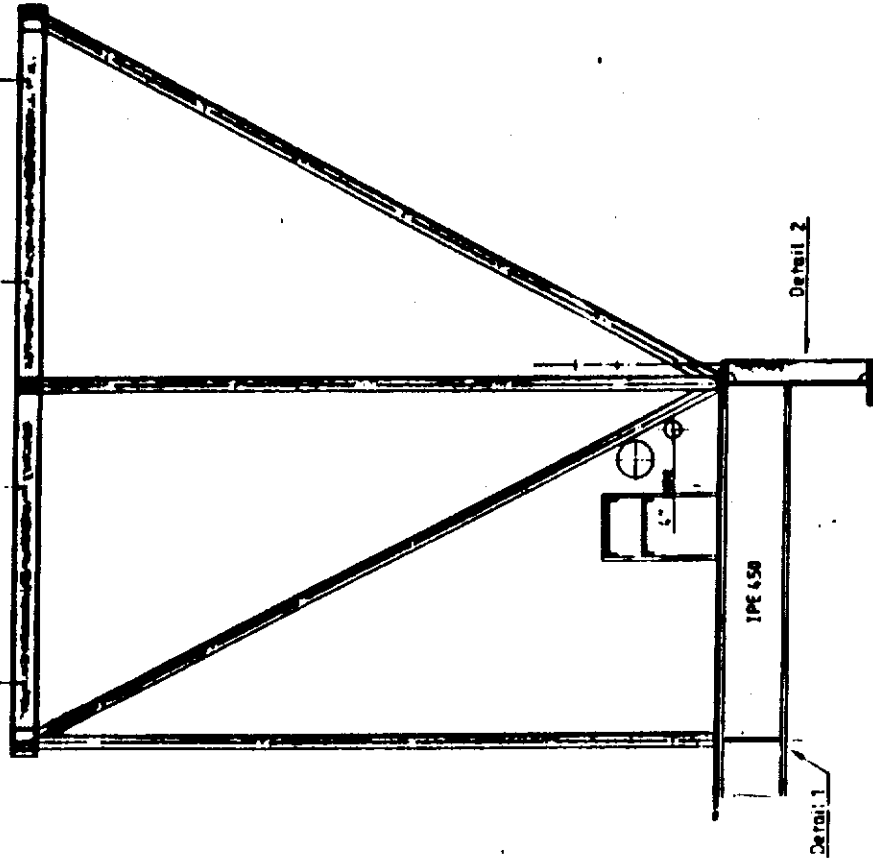
CLIENT	ELF AQUITAINE NORGE
TITLE	LIEBHERR BOOM REST WELD ALLOCATION DIAGRAM
SCALE	-
CONTRACT	LS 060
DRAWING No.	060 WA 004
REV.	0

WELD N°	27
DATE	22.4.84
WELDER N°	4
NDT REP	

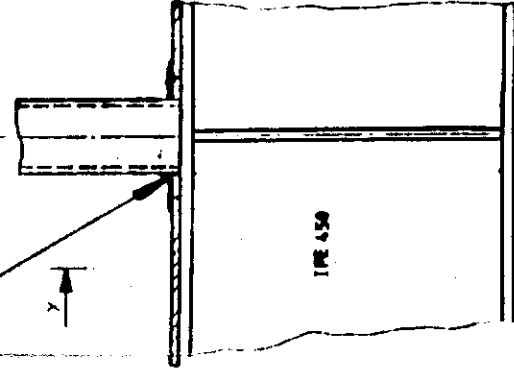


WELD N°	29
DATE	22.4.84
WELDER N°	1
NDT REP	

Detail 2
Typical 2 places

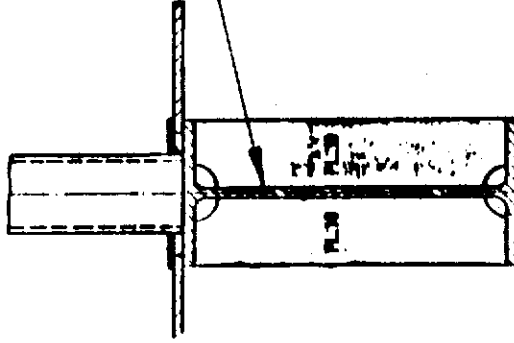


WELD N°	30
DATE	21.4.84
WELDER N°	4
NDT REP	



Detail 1
Typical 2 places

WELD N°	28
DATE	21.4.84
WELDER N°	1
NDT REP	

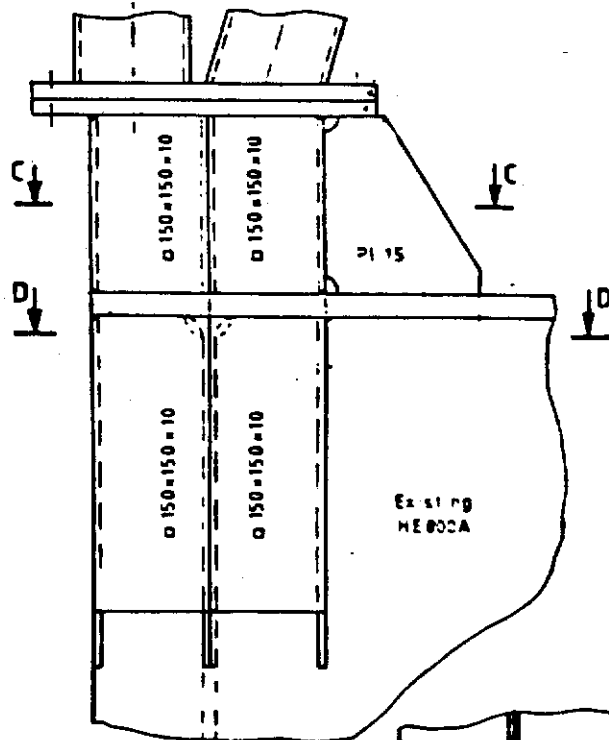


Section X - X

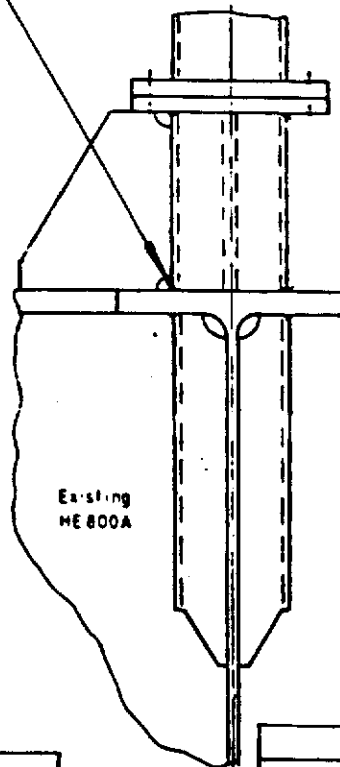
Section Y - Y

REFERENCE DRAWINGS	REV.	DESCRIPTION	BY	DATE	 C-E.C. Con-Ecosse Co. Ltd. Victoria Chambers Engineers & Contractors 42 Frederick Street Telex 72385 EDINBURGH EH2 1EX Tel. 031-226 3572 THIS DRAWING AND THE TECHNICAL INFORMATION IT NOT BE LOANED, REPRODUCED OR COPIED IN ANY MANNER WITHOUT THE PERMISSION OF C.E.C.
					BY DATE L SMITH JULY 84 CHECKED APPROVED
					SCALE - CONTRACT LS 060 DRAWING No. 060 WA 005
					REV. 0
CLIENT ELF AQUITAINE NORGE					TITLE LIEBHERR INSPECTION PLATFORM WELD ALLOCATION DIAGRAM

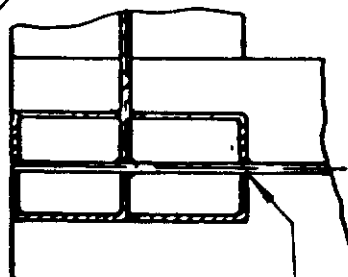
WELD N°	55
DATE	7.4.84
WELDER N°	2
NDT REP	



View 2

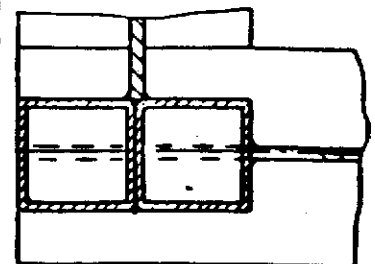


View 2



Section D-D

Detail 2



Section C-C

WELD N°	56
DATE	7.4.84
WELDER N°	1
NDT REP	

WELDER N° 1 N HEADS
N° 2 C KIRSTEIN



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CLIENT

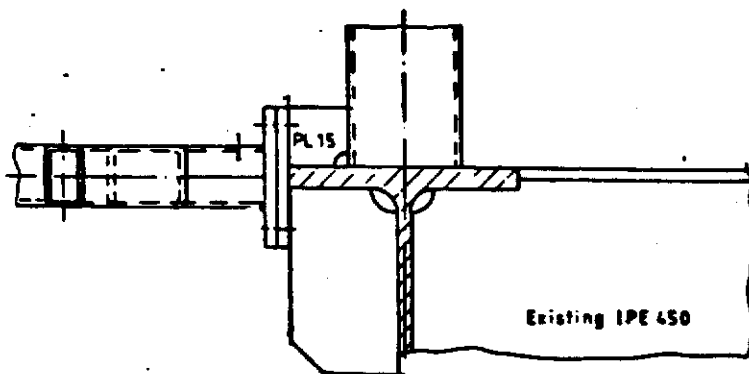
ELF AQUITAINE NORGE

TITLE

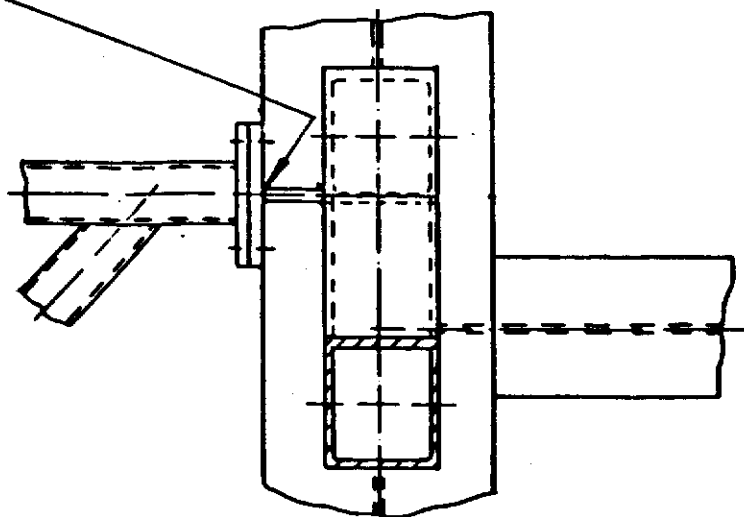
MK60 INSPECTION PLATFORM
WELD ALLOCATION DIAGRAM

BY	DRAWN	CHECKED	APPROVED	SCALE	CONTRACT	DRAWING No.	REV.
DATE	L SMITH			-	LS 060	060 WA 009	0
	JUNE 84						

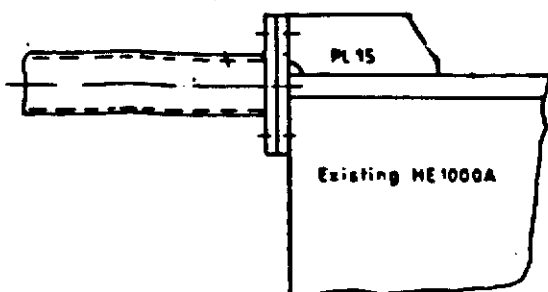
WELD N ^o	53
DATE	8.4.84
WELDER N ^o	2
NDT REP	



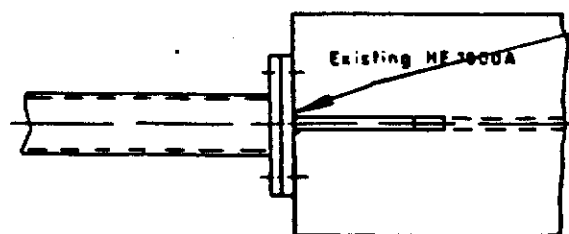
View G-G



Detail 3



View E-E



Detail 4

WELD N ^o	54
DATE	8.4.84
WELDER N ^o	2
NDT REP	

WELDER N^o 2 C KIRSTEIN



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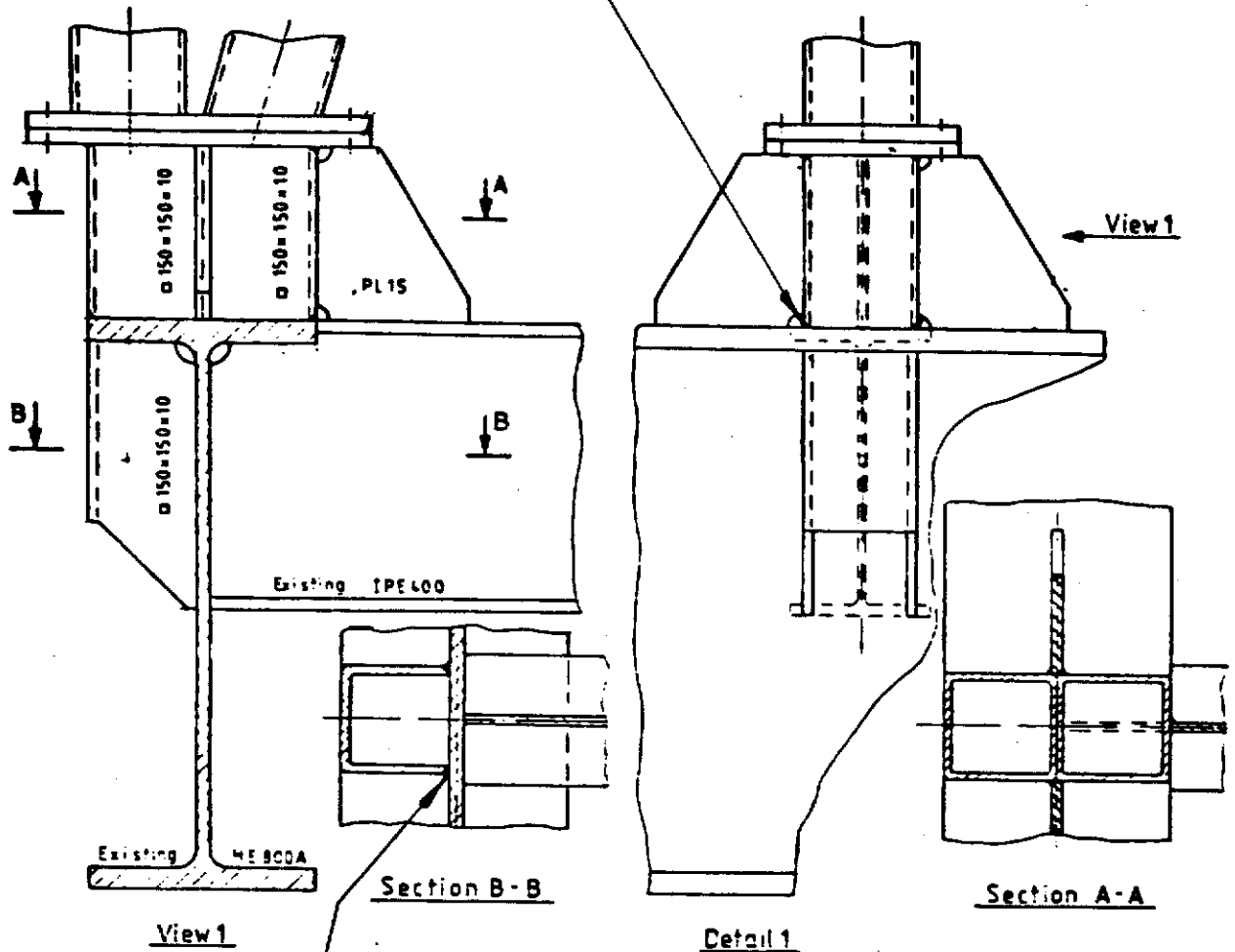
CLIENT

ELF AQUITAINE NORGE

TITLE MK60 INSPECTION PLATFORM
WELD ALLOCATION DIAGRAM

	DRAWN	CHECKED	APPROVED	SCALE	CONTRACT	DRAWING No.	REV.
BY	L SMITH			—	LS 060	060 WA 008	0
DATE	JUNE 84						

WELD N°	51
DATE	7.4.84
WELDER N°	3
NDT REP	



WELD N°	52
DATE	7.4.84
WELDER N°	3
NDT REP	

WELDER N° 3 A KAYHTY



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ELF AQUITAINE NORGE

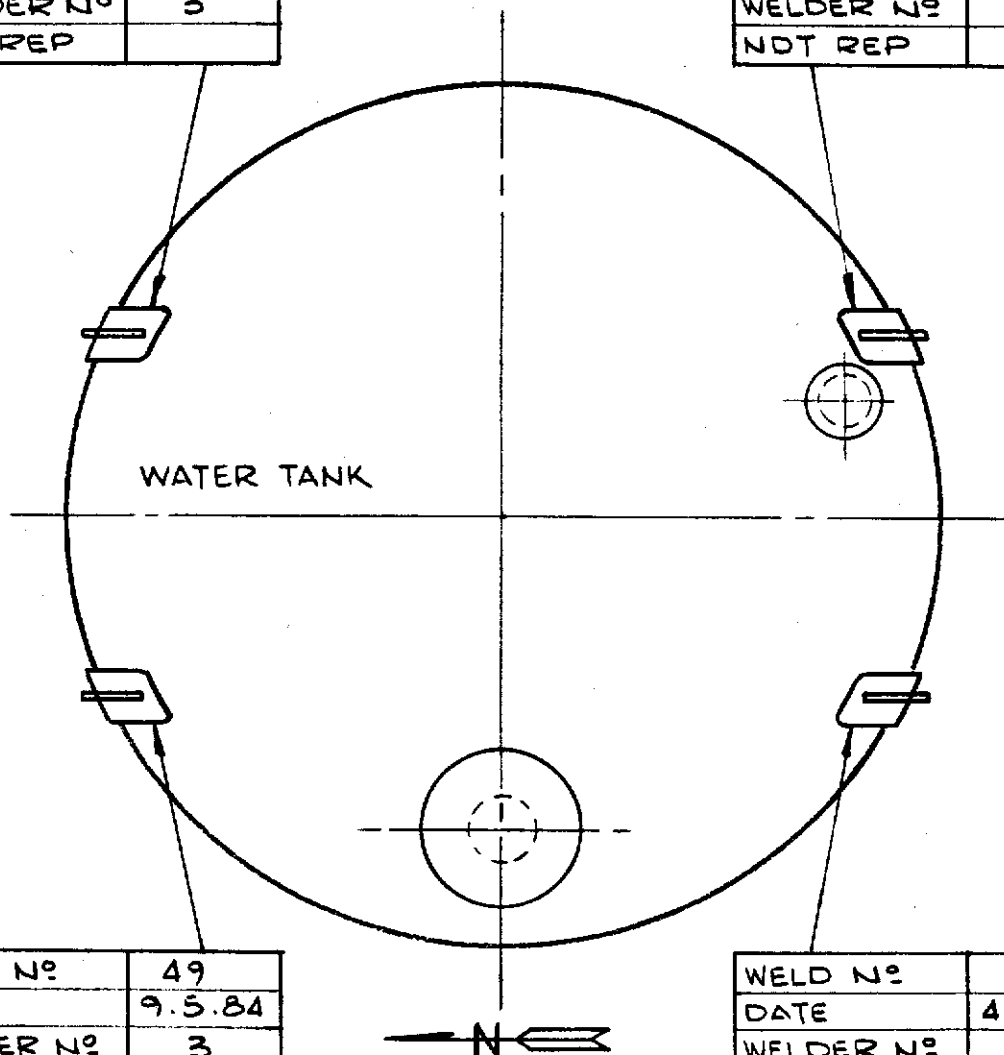
TITLE

MK 60 INSPECTION PLATFORM
WELD ALLOCATION DIAGRAM

	DRAWN	CHECKED	APPROVED	SCALE	CONTRACT	DRAWING No.	REV.
BY	L SMITH			—	LS 060	060 WA 007	0
DATE	JUN 84						

WELD N°	47
DATE	8.5.84
WELDER N°	3
NDT REP	

WELD N°	48
DATE	3.5.84
WELDER N°	5
NDT REP	



WELD N°	49
DATE	9.5.84
WELDER N°	3
NDT REP	

WELD N°	50
DATE	4.5.84
WELDER N°	5
NDT REP	

WELDER No 3 A KAYHTY
No 5 A BREDENBEKK



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42 Frederick Street Telex 72385
EDINBURGH EH2 1EX Tel. 031-225 3572

CLIENT

ELF AQUITAINE NORGE

TITLE LIEBHERR BOOM REST (WATER TANK)
WELD ALLOCATION DIAGRAM

	DRAWN	CHECKED	APPROVED	SCALE	CONTRACT	DRAWING No.	REV.
BY	L SMITH			-	LS 064	060WA 006	0
DATE	JULY 84						

Notes:

ELF STANDARD TO BE USED
 Material spec: FF 1021 S002
 Fabrication spec: FF 1021 S003
 Painting spec: SU 1350 02 07 re. DL 81

Material: Ø72 x 1 1/4 EH 36 L NUS 36
 Base plate: RS - 37 x 7
 Others: ST 52 x 3W

Deck plate not to be welded to pedestal. If
 EL 32 610 but to be sealed by use of silicone

Reference drawings

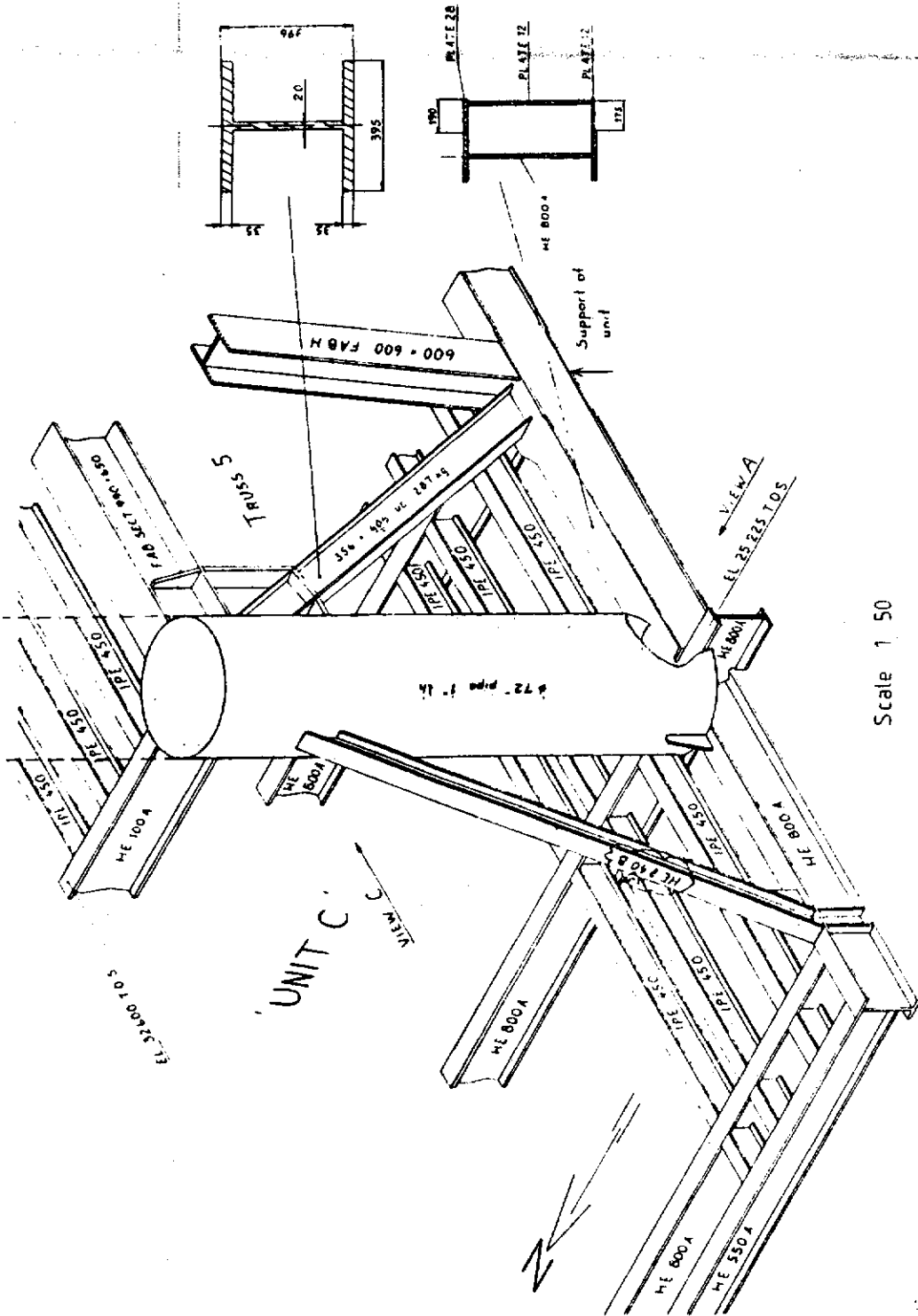
Mt. Demont Hudson ELA 214. Spec: 213
 214
 215
 216
 217

CON-ECOSSE
 AS BUILT DRG

SIG. *Seaph* DATE 2/7/84

Scale 1:20

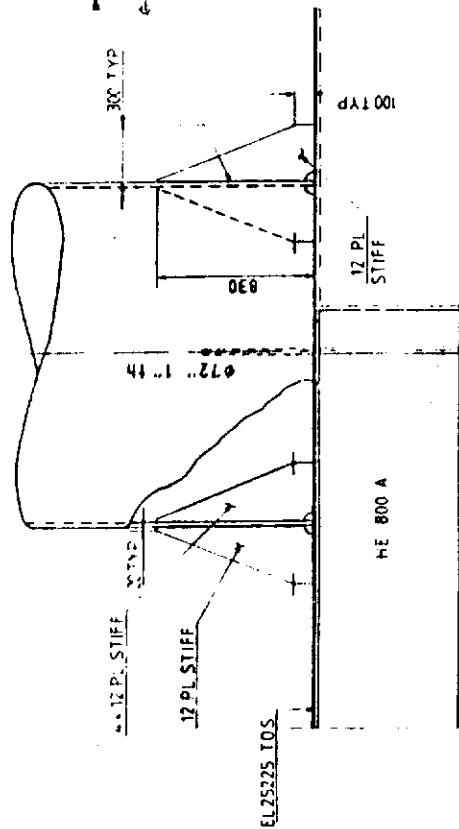
View C upper connection point



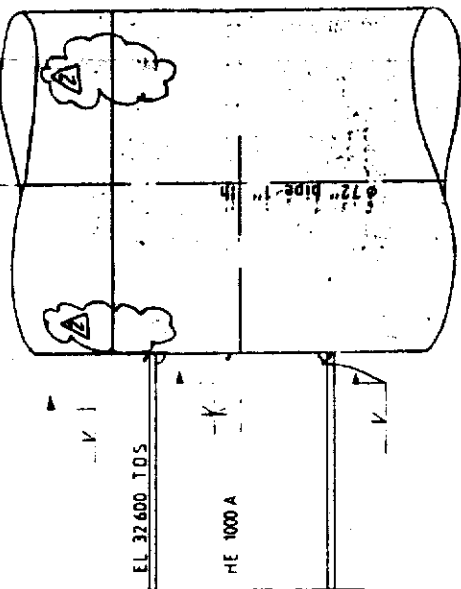
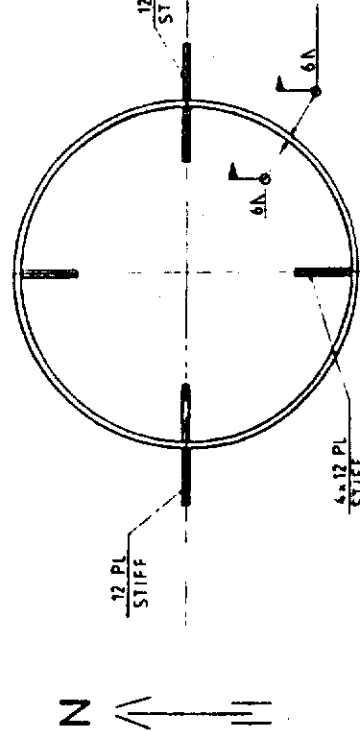
Scale 1:50

View A lower connection point

Scale 1:20

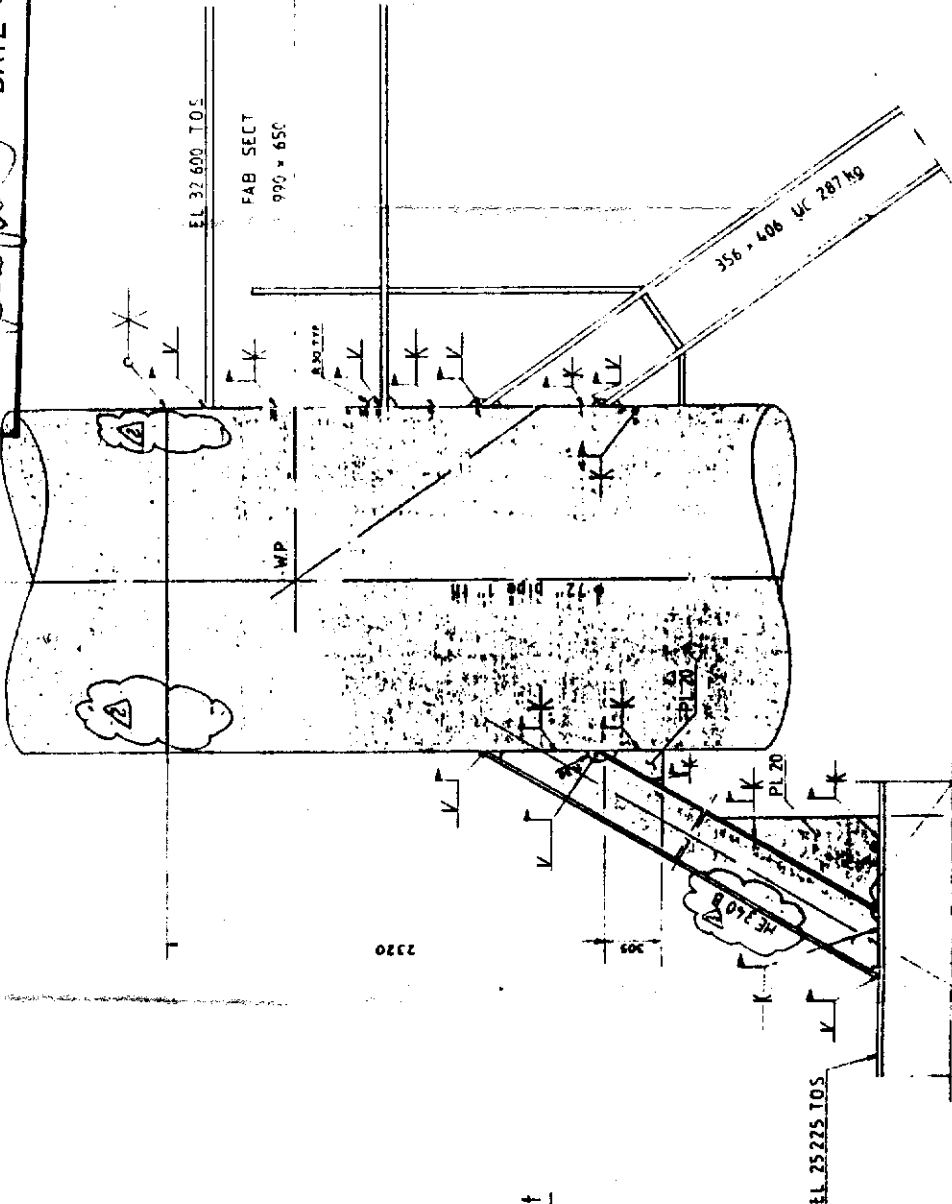


TRUSS 5



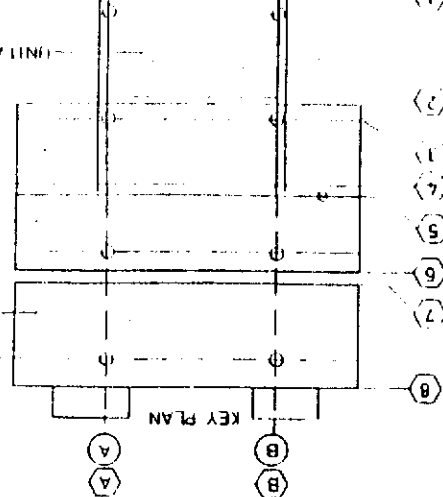
View C upper connection point

Scale 1:20



View A upper connection point

Scale 1:20



ELF BOUTLINE ROPS AS

APPROVED
 FOR CONSTRUCTION

NAME: O. Overland
 SIGNATURE: *Overland*

1. Inspection no.
 2. Inspection date
 3. Inspection results
 4. Inspection results
 5. Inspection results
 6. Inspection results
 7. Inspection results
 8. Inspection results
 9. Inspection results
 10. Inspection results

elf

WELDING OF PEDESTAL FOR
 NEW LIEBHERR CRANE TO
 EXISTING STRUCTURE
 TRUSS 5 UNIT C DP2

PRIGG FIELD FF 83 21 28 30 31

Notes:

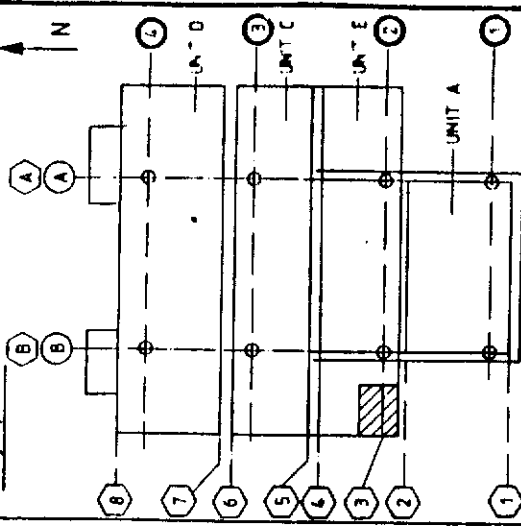
Material spec: FF-10-21-S-002
 Fabrication spec: FF-10-21-S-003
 Painting spec: SD 1350-02-07 Rev 1/4-80
 Total weight crane support: 515 kg
 at 150x150x6.3 spliced in two halves, ref view B-B
 Deviation
 Machined: Medium MS 1430 (150 JS/JS 14)
 Welded Grade B MS 1432 (DIN 8570)

Reference drawings:

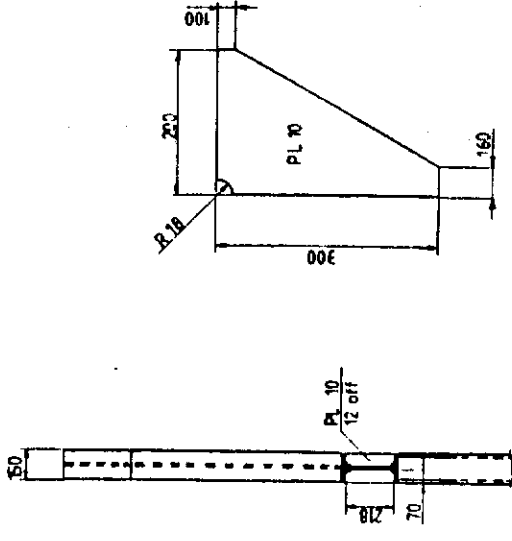
Arrangement: FF 832183014
 Offshore installation: FF 83212830

DESCRIPTION	MATERIAL	LENGTH	WEIGHT
PL 10	ST 52-3N	0.1 m ²	55 kg
IPE 300	ST 52-3N	5.0 m	2745
80 x 80 x 6.3	ST 44-2	19.0 m	2745
150 x 150 x 6.3	ST 44-2	18.3 m	5245
150 x 150 x 10	ST 44-2	10.8 m	4545
WELDED			

Key plan



View D-D



View C-C

Detail B

**CON-ECOSSE
 AS BUILT DRG**

DATE 2/7/84
 SG. des

Detail 7

Detail 3

Detail 6

Detail 5

Detail 4

Detail 2

Detail 1

Detail 7

Detail 3

Detail 6

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Detail 1

Detail 7

Detail 3

Detail 6

Detail 5

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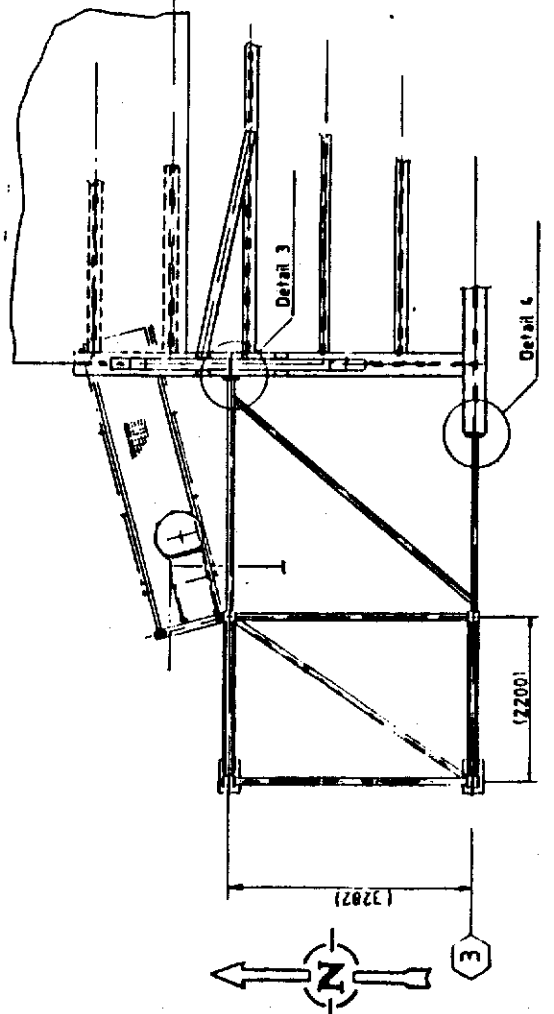
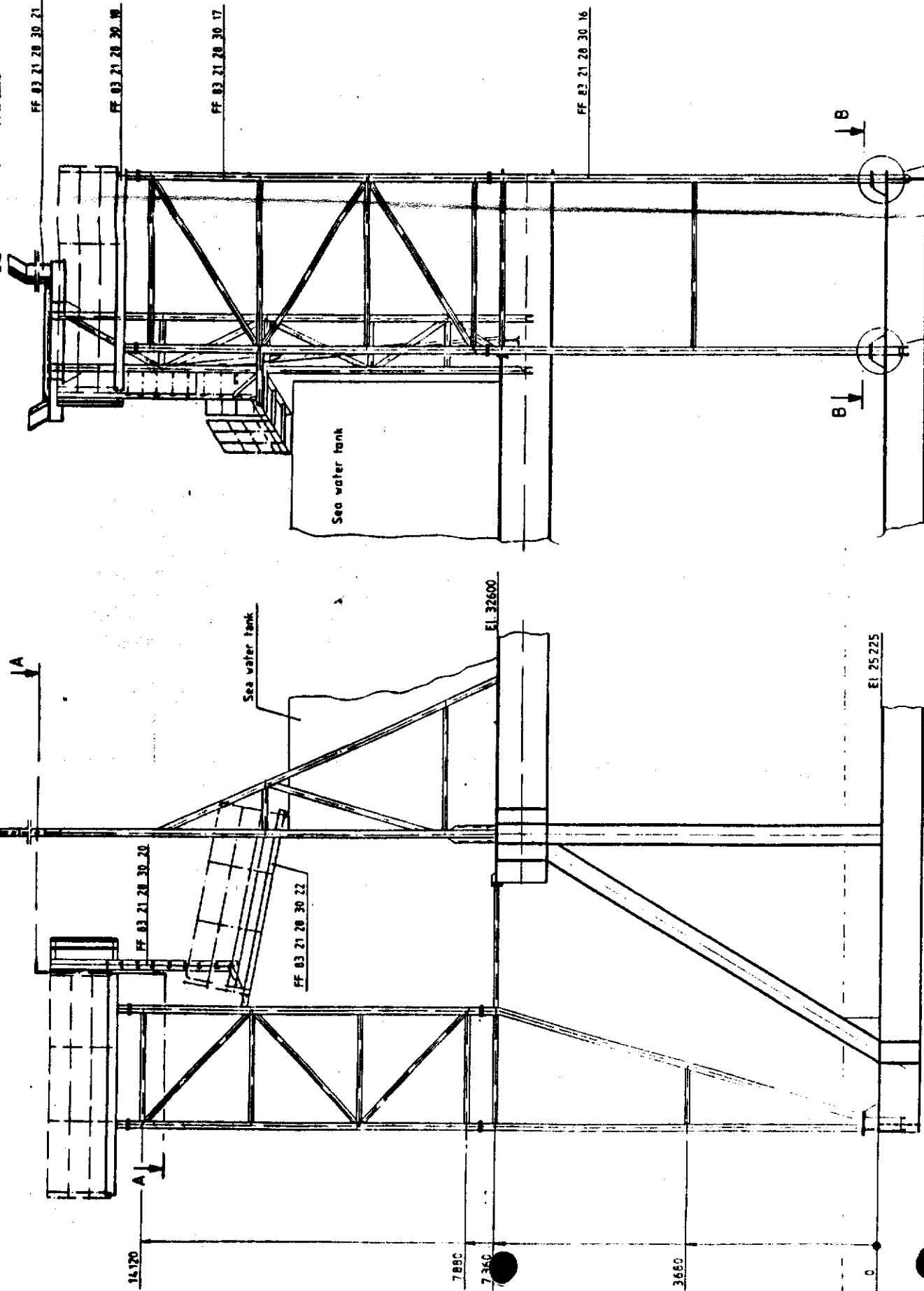
Detail 6

Detail 5

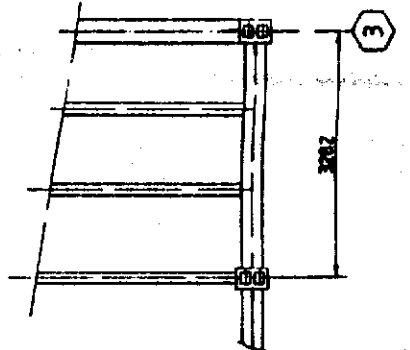
Detail 4

Detail 2

Detail 1



Section A-A



Section B-B

Boltrequest

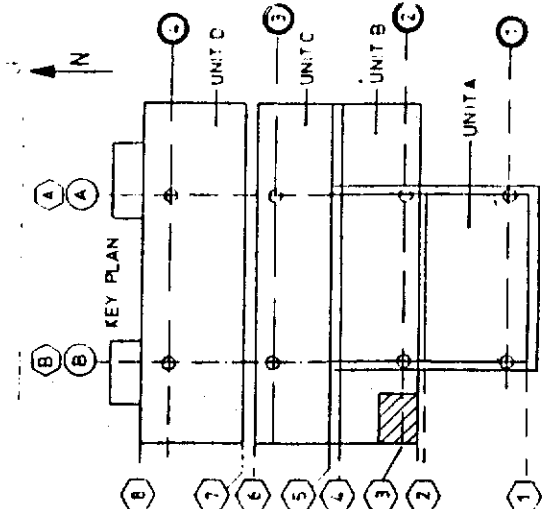
IDT NO.	DESCRIPTION	MATERIAL
10	M 20 x 70	NS 1821
16	M 20 x 90	0.8 Galvanized
2	M 16 x 90	
4	M 16 x 45	NS 1821
56	Nylocknut M 20	
112	Nylocknut M 16	0.8 Galvanized
112	Washer M 20	NS 960
16	Washer M 16	NS 960
		Galvanized Hardened

Notes:

Material spec: FF 10-21-S-002
 Fabrication spec: FF 10-21-S-003
 Painting spec: SG 1350-02-07 Rev 1/4-80
 Details 1-4 refer to Details & reinforcement: FF 83 21 28 30 19
 All bolts M 20 to be prestressed 6.5 ton
 Deviation:
 Machine: Medium NS 430 (ISO JS/S 14)
 Welded: Grade B NS 1432 (DIN 8570)

Reference drawings:

- Arrangement: FF 83 21 28 30 16
- Lower section: FF 83 21 28 30 16
- Middle section: FF 83 21 28 30 17
- Platform: FF 83 21 28 30 18
- Details & reinforcements: FF 83 21 28 30 19
- Ladder & accessway: FF 83 21 28 30 20
- Crane support: FF 83 21 28 30 21
- Accessway details: FF 83 21 28 30 22



CON-ECOSSE
AS BUILT DRG
 SIG. *Leo* DATE 2/7/84

1. NAME: CON-ECOSSE
 2. PROJECT: OFFSHORE PLATFORM
 3. DRAWING NO.: 11177
 4. SCALE: 1:50
 5. DATE: 2/7/84
 6. DRAWN BY: A. RUECKAS
 7. CHECKED BY: A. RUECKAS
 8. APPROVED BY: A. RUECKAS
 9. PROJECT NO.: 830505
 10. PROJECT NAME: Inspection/repair platform for MK-60 crane-top DP 2 west side offshore installation

Material spec: FF-10-21-S-002
Fabrication spec: FF-10-21-S-003
Painting spec: SG 1350-02-07 Rev 1/4-80
Total weight of reinforcements = 485 kg

Deviation
Machined Medium NS 1430 (ISO 45/JS 14)
Welded Grade B NS 1432 (DIN 8570 1)

CON-ECOSSE
AS BUILT DRG

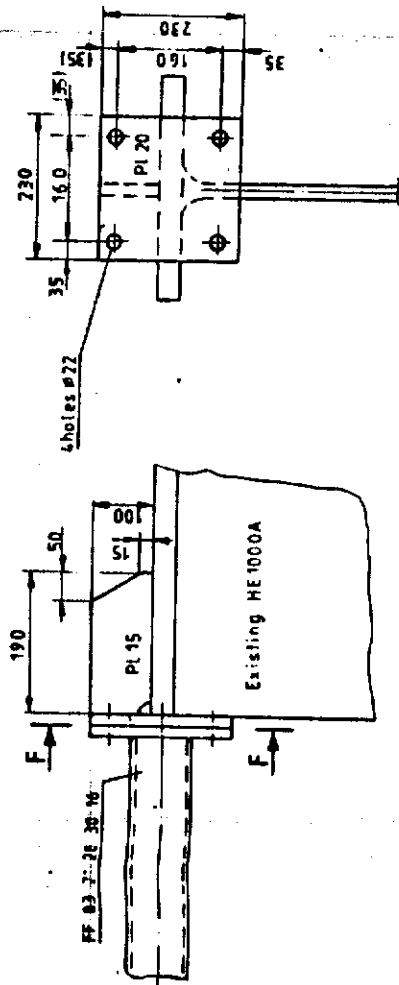
SIG. *[Signature]* DATE 2/7/84

Reference drawings:

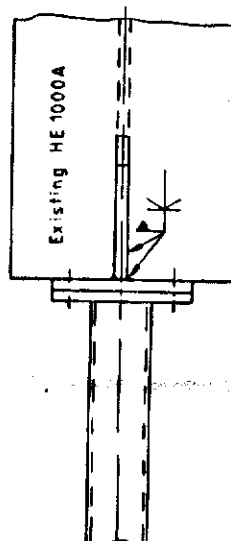
Arrangement: FF83 21 28 30 16
 Details 1-4 refer to Offshore install. FF83 21 28 30 15
 Crane support: FF63 21 28 30 21
 Lower section: FF83 21 28 30 16

DESIGNATION	MATERIAL	LENGTH, m ²	WEIGHT
Plate 20 mm	ST 52-3 N	0.339 m ²	53.2 kg
Plate 15 mm	ST 52-3 N	0.265 m ²	39.3 kg
□ 150 × 150 × 10	ST 44.2	2.3 m	105 kg

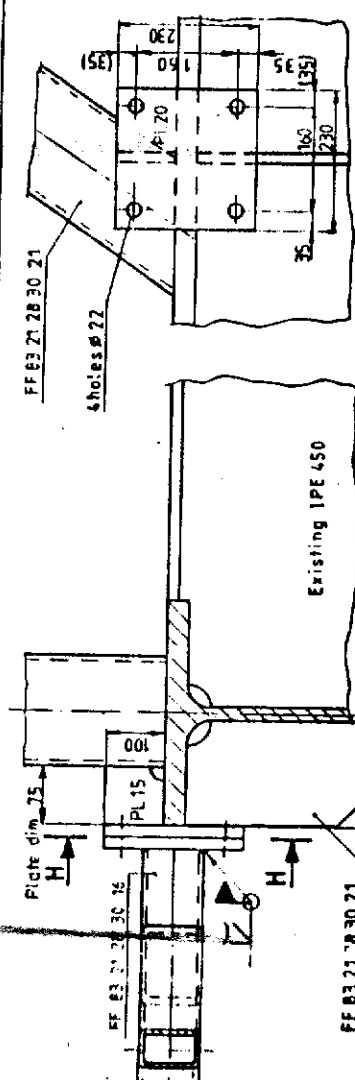
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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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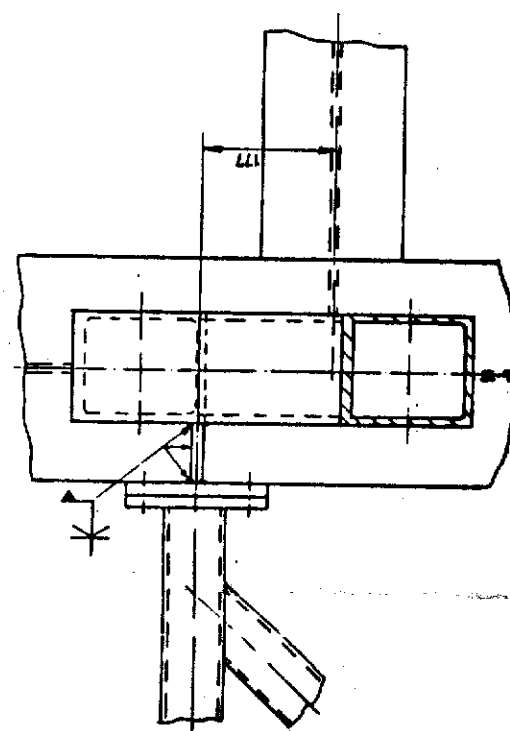
View E-F



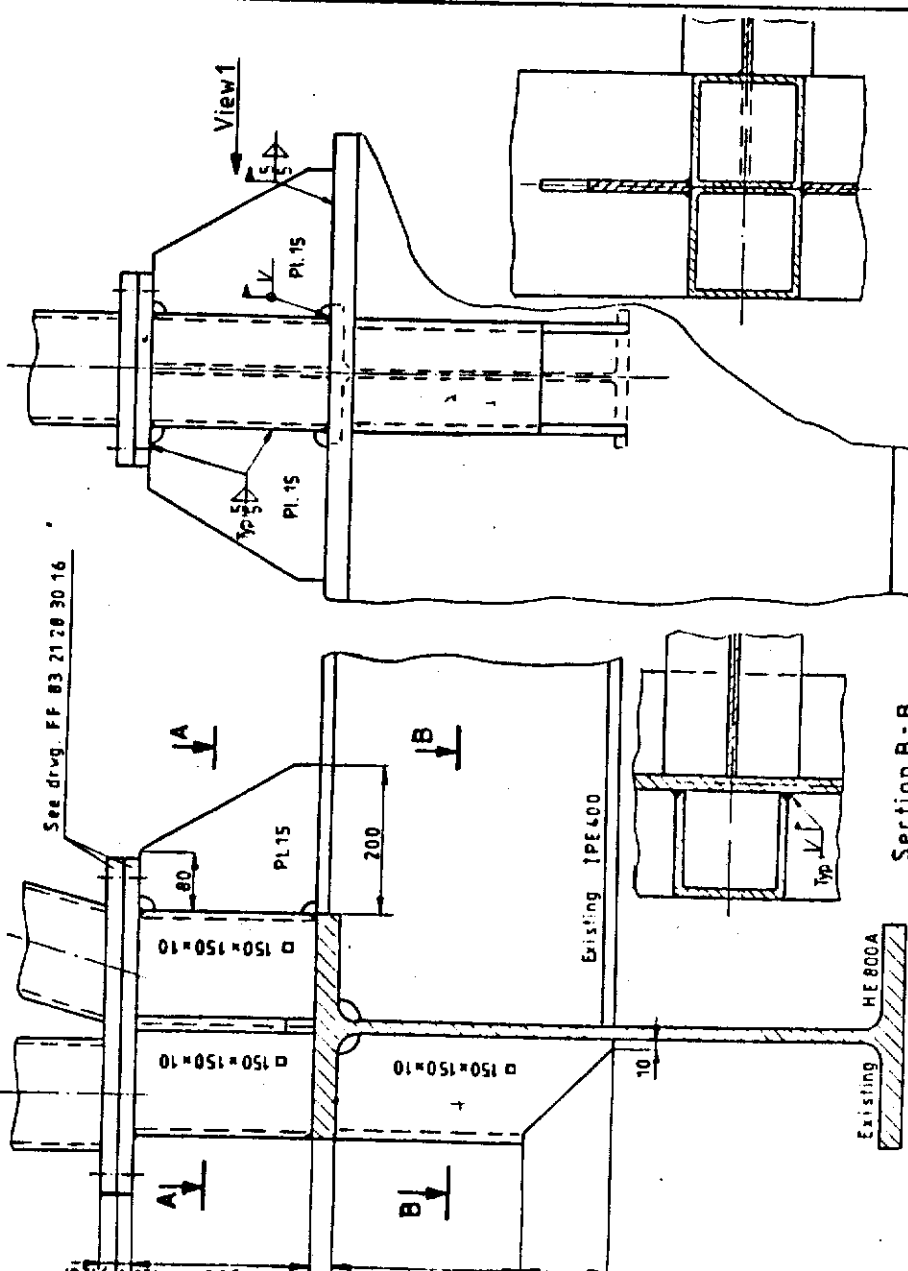
Detail 4



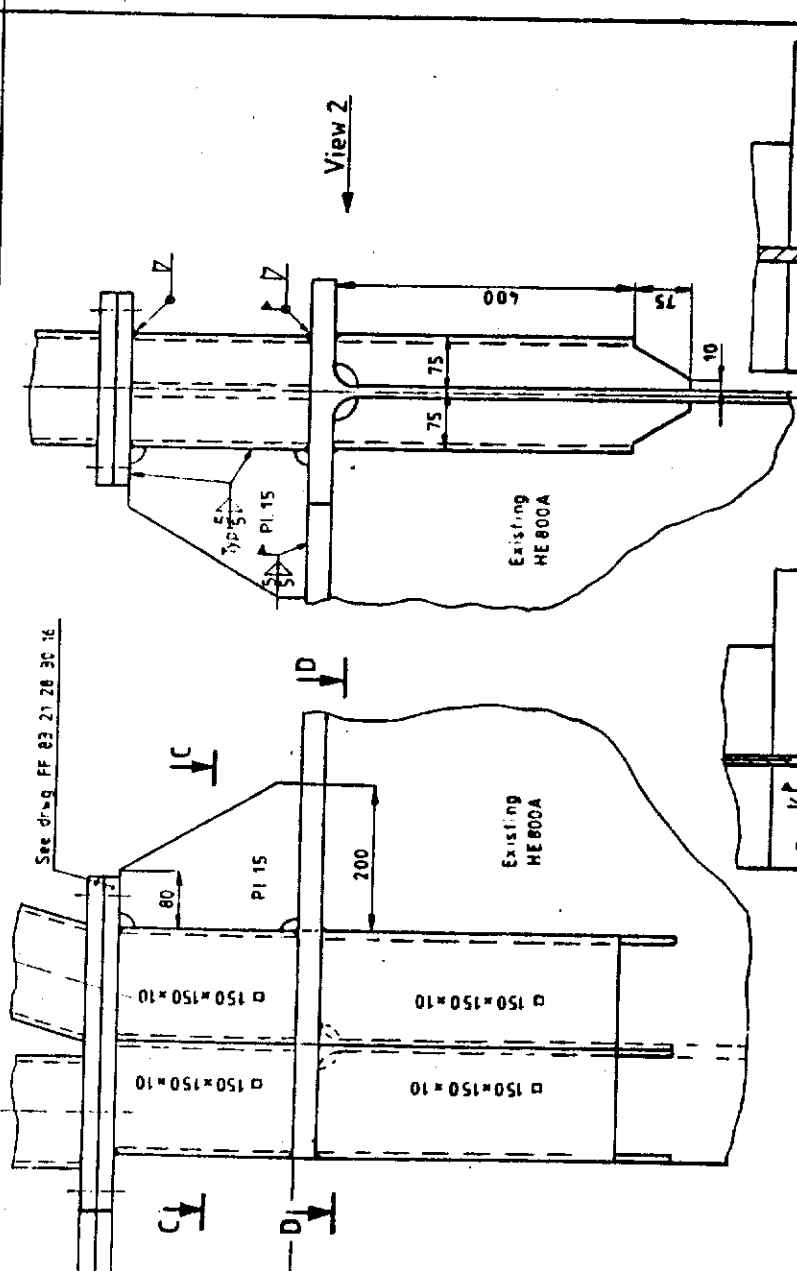
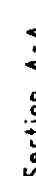
View G-G



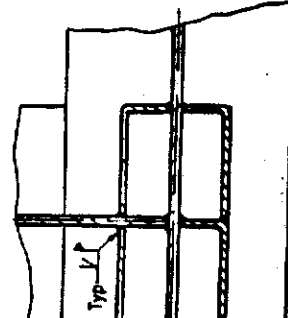
Detail 3



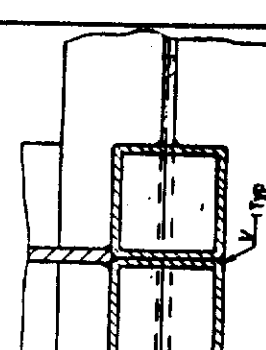
Detail 1



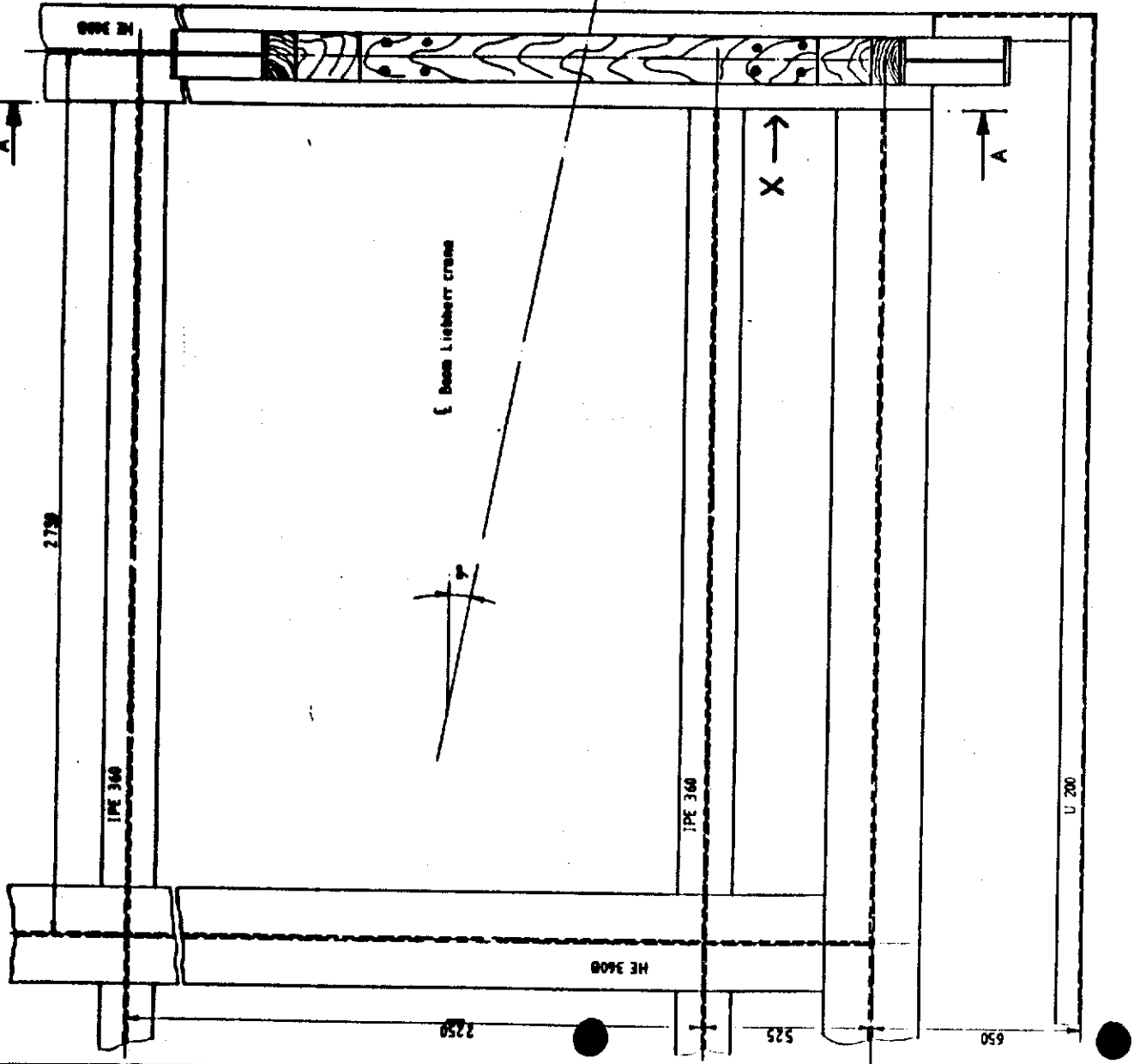
Detail 2



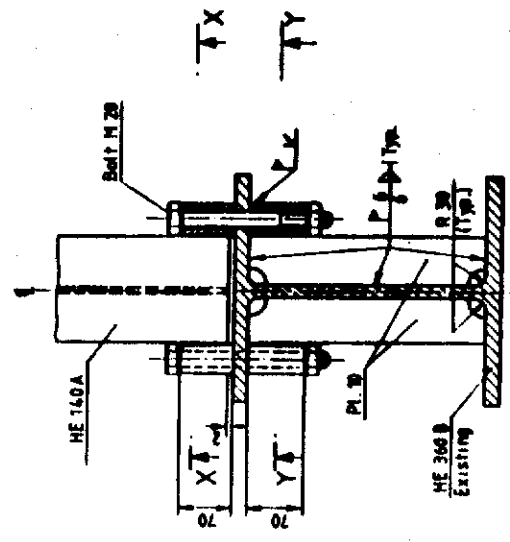
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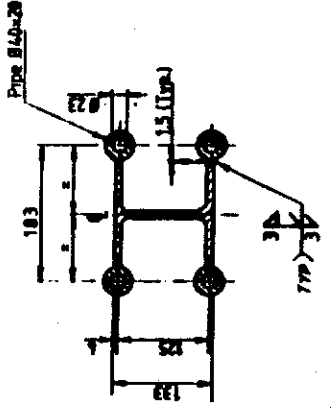
2-2-2025



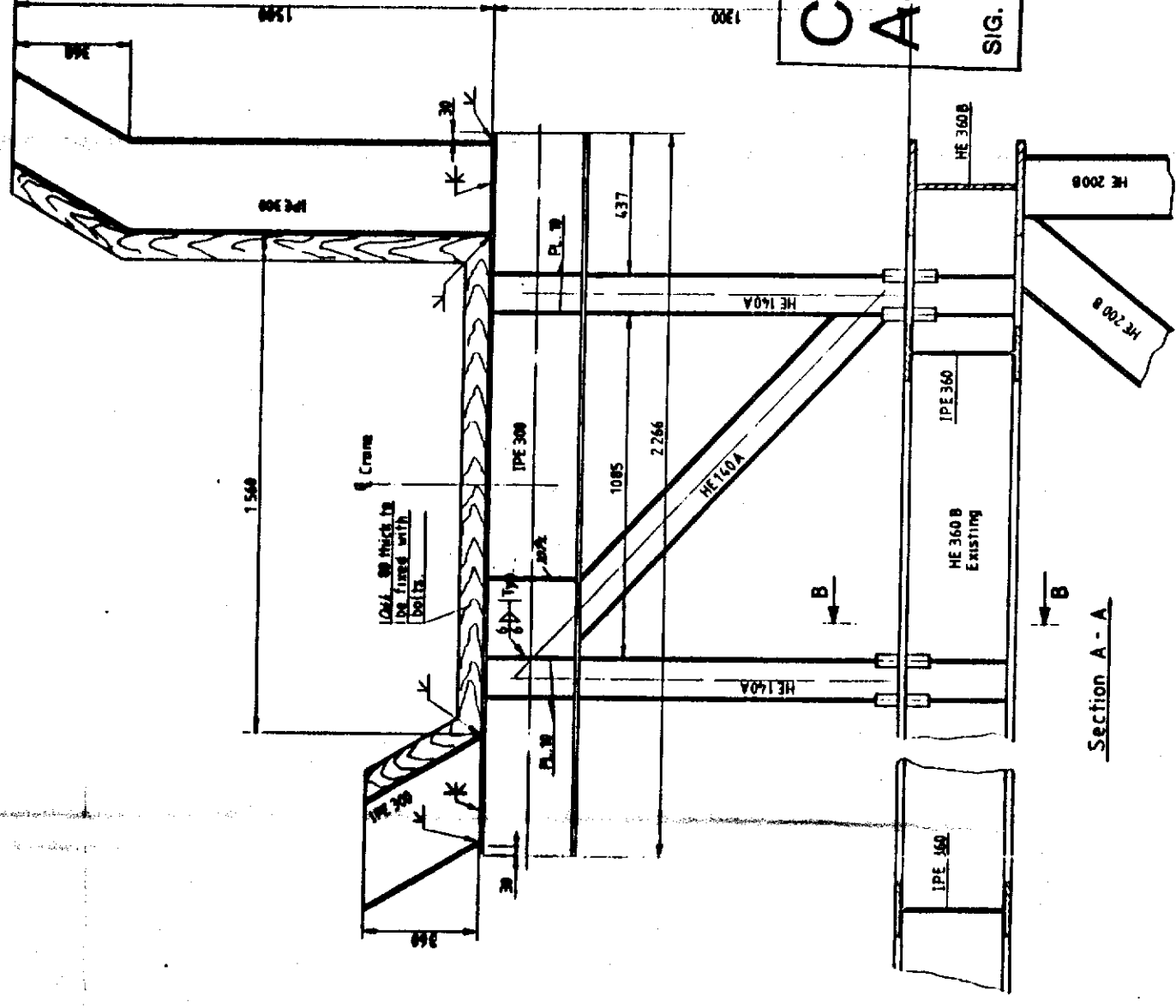
Plan view S-East corner - Module 2
 Draw: FOREX NEPTUNE 161S 1621-2



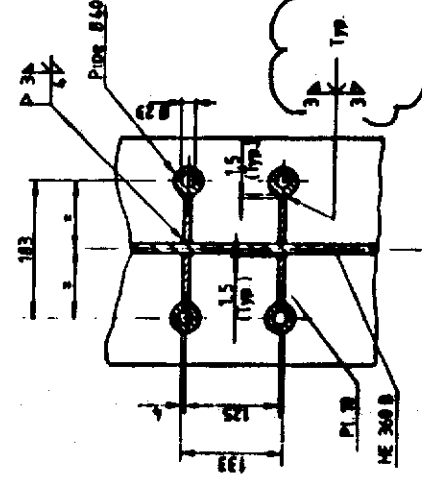
Section B - B



Section X - X



Section A - A



Section Y - Y

NOT WELDED IN POSITION
 MARKED X. (DUE TO
 LACK OF ACCESS)
 INSIDE MODULE ONLY

Notes:
 For general rules and drwg. PF 03 25 20 30 25
 Drawings:
 Produced: Medium NS 1430 (150 A/p 16)
 Issued: Grade 8 NS 1430 (150 A/p 16)

Reference drawings:
 Inspection/repair platform
 for Liebherr Crane and beam rest
 General arrangement
 PF 03 21 20 30 25

CON-ECOSSE
 AS BUILT DRG
 SIG. *[Signature]* DATE 2/1/84

Qnt	Washer M20 NS 960	St.	2.2 m
Nut	M20 over 992	8.8 m	8 m
Bolt	M20-2m NS 1023	8.8 m	8 m
Pipe	B40-20	DN1700 St 52-3	1.12 m
Plate	30	DN1700 St 52-3	0.31 m
HE	140A	DN1700 St 52-3	3.4 m
IPE	300	DN1700 St 52-3	4.5 m
DESIGNATION	MATERIAL	TOTAL WEIGHT	

APPROVED
 FOR CONSTRUCTION
 NAME: O. Gervin
 SIGNATURE: *[Signature]*

1. NAME OF THE PROJECT	FOREX NEPTUNE
2. NAME OF THE CLIENT	FOREX NEPTUNE
3. NAME OF THE DESIGNER	FOREX NEPTUNE
4. NAME OF THE FABRICATOR	FOREX NEPTUNE
5. NAME OF THE INSTALLER	FOREX NEPTUNE
6. NAME OF THE MAINTENANCE	FOREX NEPTUNE
7. NAME OF THE INSPECTION	FOREX NEPTUNE
8. NAME OF THE REPAIR	FOREX NEPTUNE
9. NAME OF THE PLATFORM	FOREX NEPTUNE
10. NAME OF THE REST	FOREX NEPTUNE
11. NAME OF THE MODULE	FOREX NEPTUNE
12. NAME OF THE FABRICATION	FOREX NEPTUNE
13. NAME OF THE OFFSHORE	FOREX NEPTUNE
14. NAME OF THE INSTALLATION	FOREX NEPTUNE
15. NAME OF THE FIELD	FOREX NEPTUNE

Notes:

Material spec. FF-10-21-S-002
 Fabrication spec. FF-10-21-S-003
 Painting spec. SS-1350-02-07 Rev 1A-00

Total weight new steel 2 100 kg

Bolts: All bolts, nuts and washers to be bright zinc plated

Deviation:
 Mechanical: Medium MS 14.30 (ISO 14.30)
 Welded: Grade B MS 14.32 (EN 10025-2)

Reference drawings:

Booms rest Liebherr Crane Steelwork FF 83 21 28 30 30

Liebherr crane arrangement 126662-1

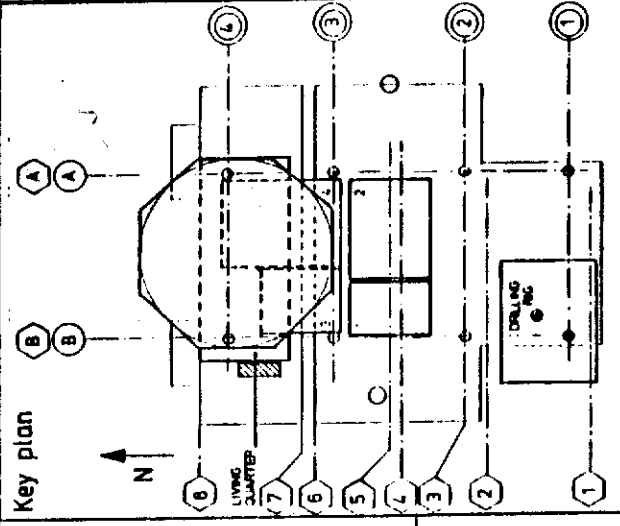
Liebherr crane jib part II 6662-211.00.02.000-0

Forex Neptune unit 1 161 ST 00 03

ELF drwg. FF 83 00 00 27-0

Forex Neptune unit 1 161A 4402 1/2-4

PL NO	IDENTIFICATION	QTY	UNIT	WEIGHT
PL 10	IDENT 1700 RS142-2	0.5	m ²	39.25 kg
PL 20	IDENT 1700 RS142-2	1.6	m ²	251 kg
PL 32	IDENT 1700 ST 52-3	1.3	m ²	326 kg
DESIGNATION				TOTAL WEIGHT
				101 m ² WEIGHT



APPROVED FOR CONSTRUCTION

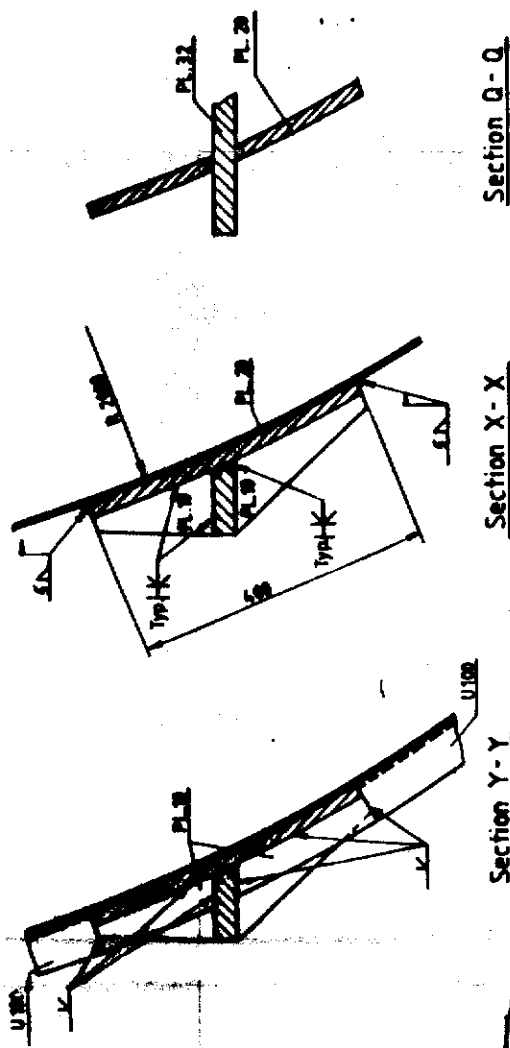
NAME: O. Grevier

SIGNATURE: [Signature]

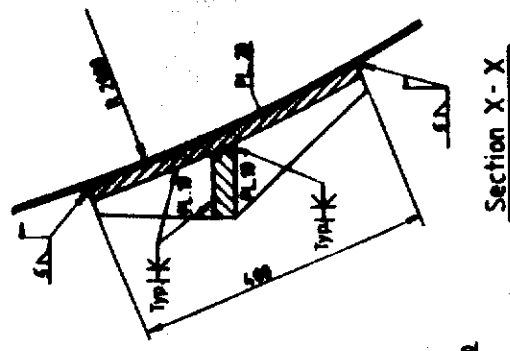
CON-ECOSSE S 574-1120

REFERENCE: 100-000000

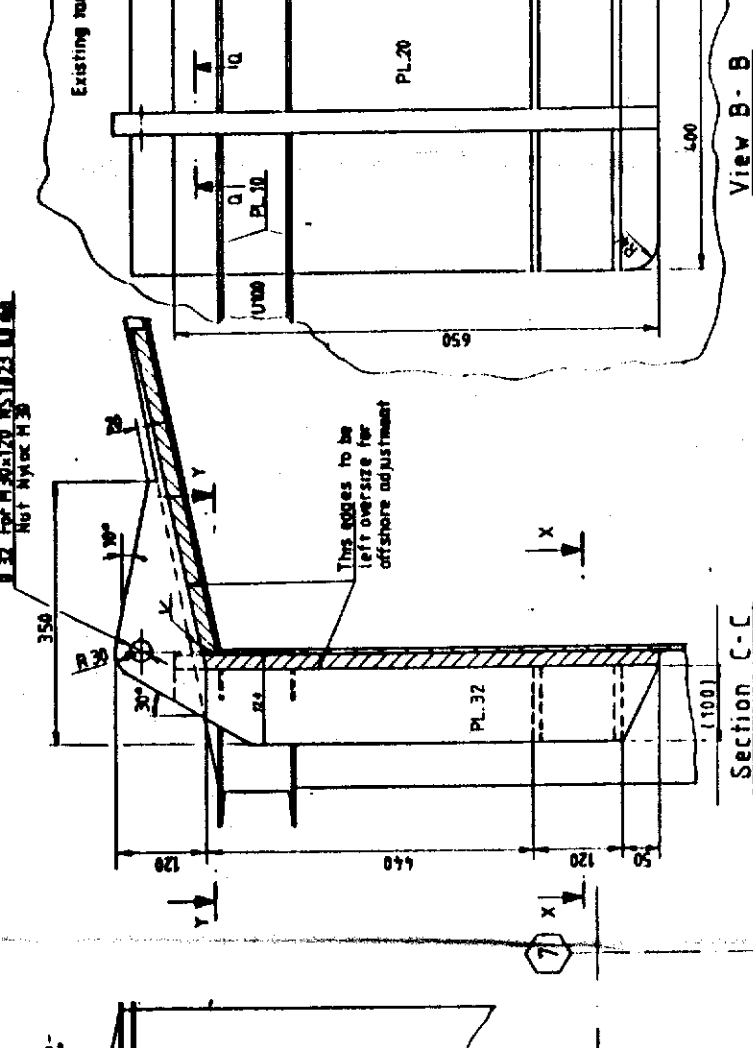
NO	DATE	REVISION	BY	CHKD	APPD
1	21/07/84	1	DRG		



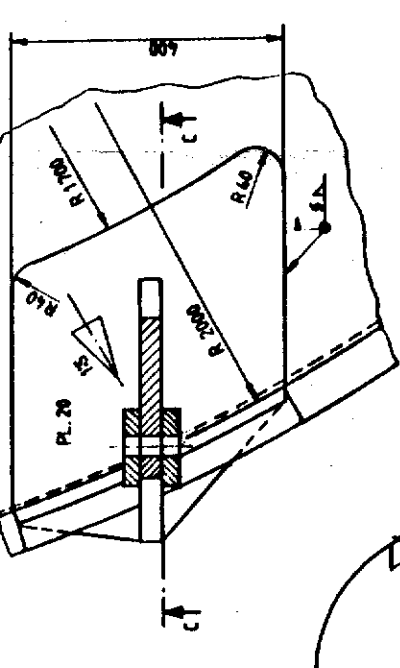
Section Y-Y



Section X-X



Section C-C

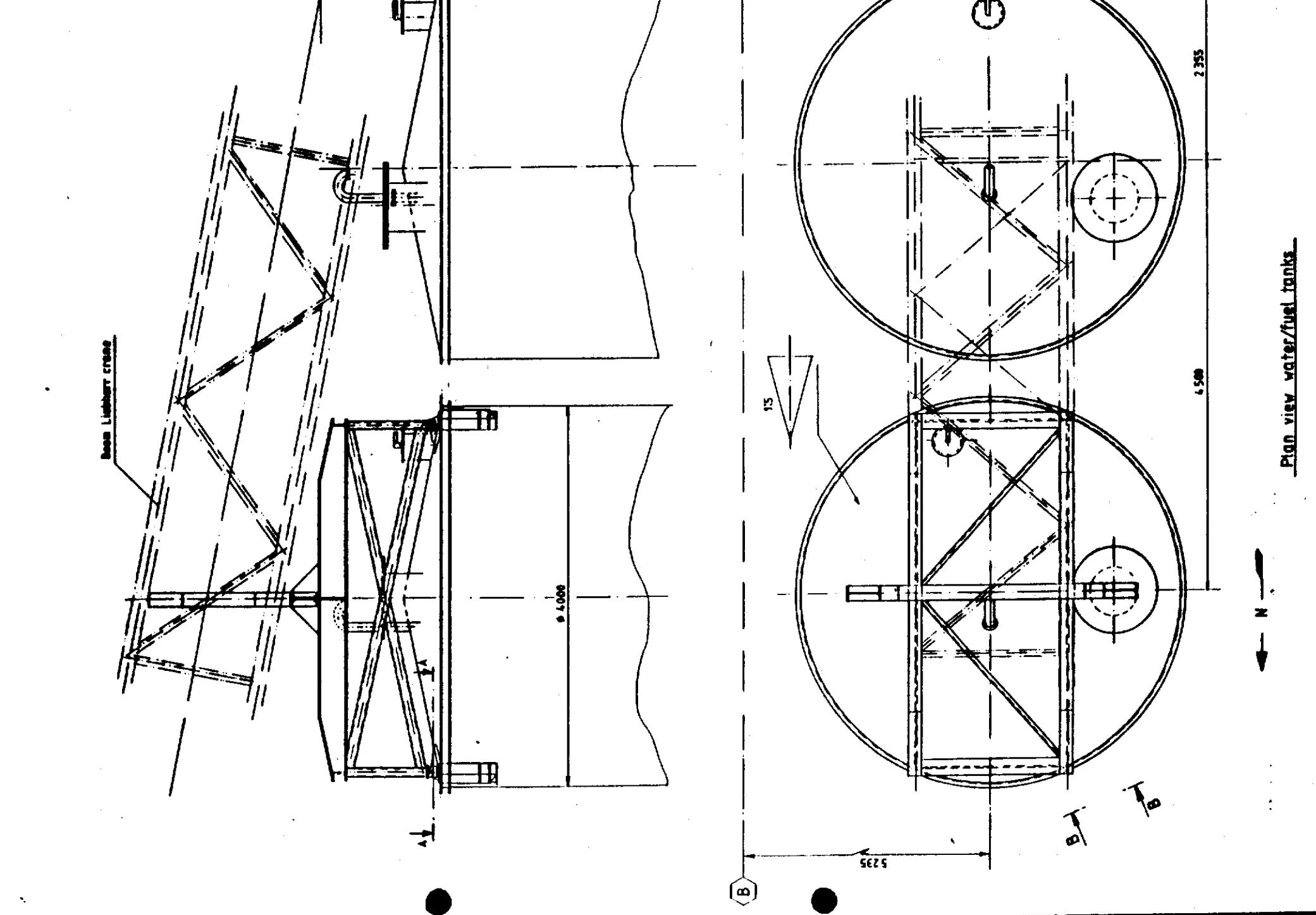


Section A-A

CON-ECOSSE AS BUILT DRG

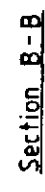
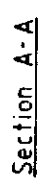
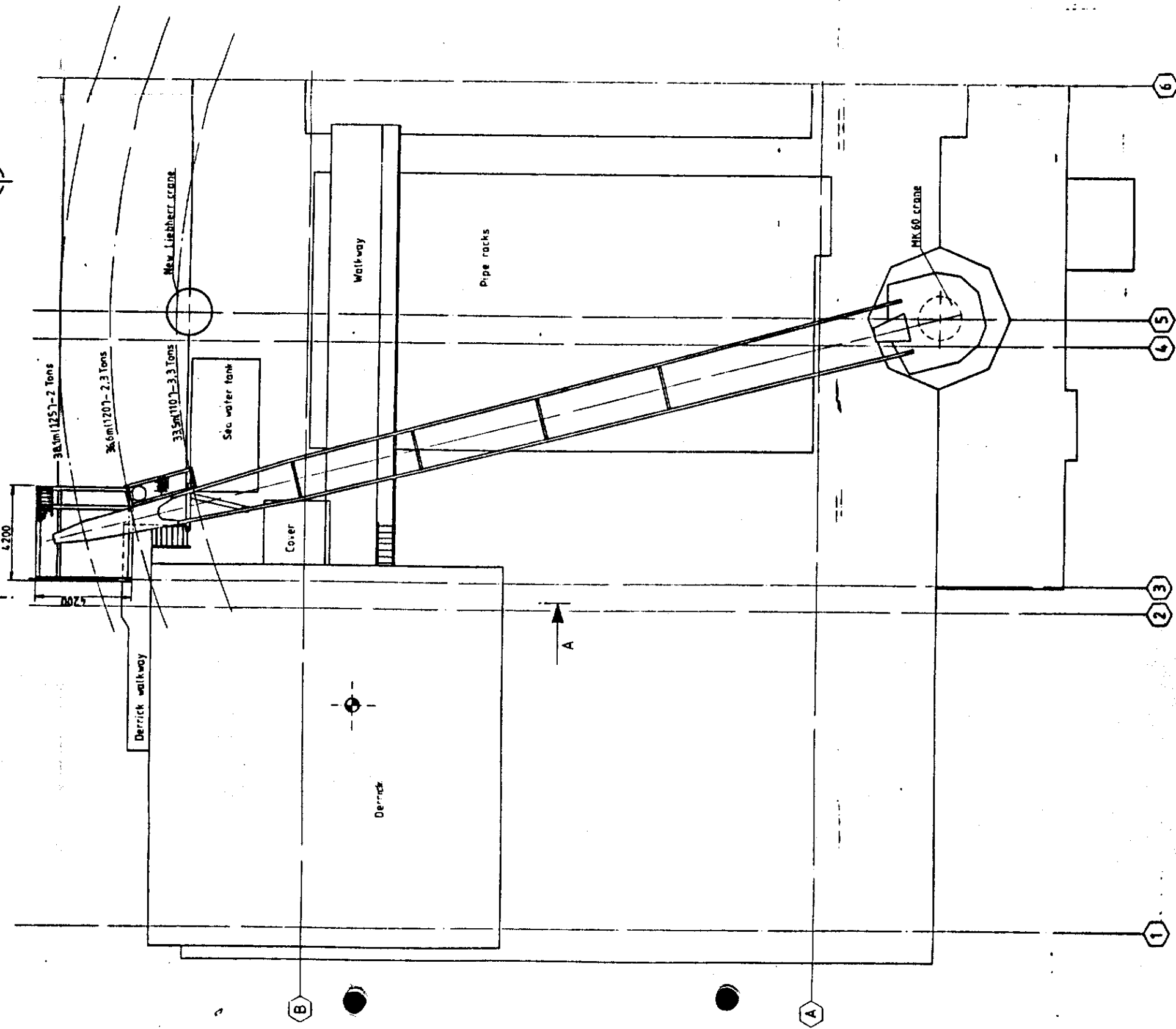
SIG. [Signature]

DATE 21/7/84



Plan view water/fuel tanks





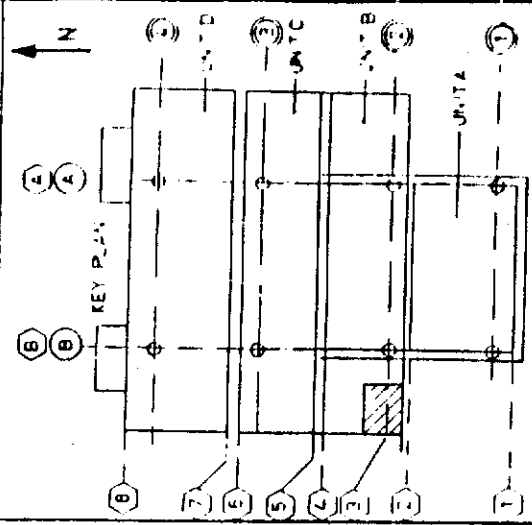
SIG. *[Signature]* DATE 2/7/84

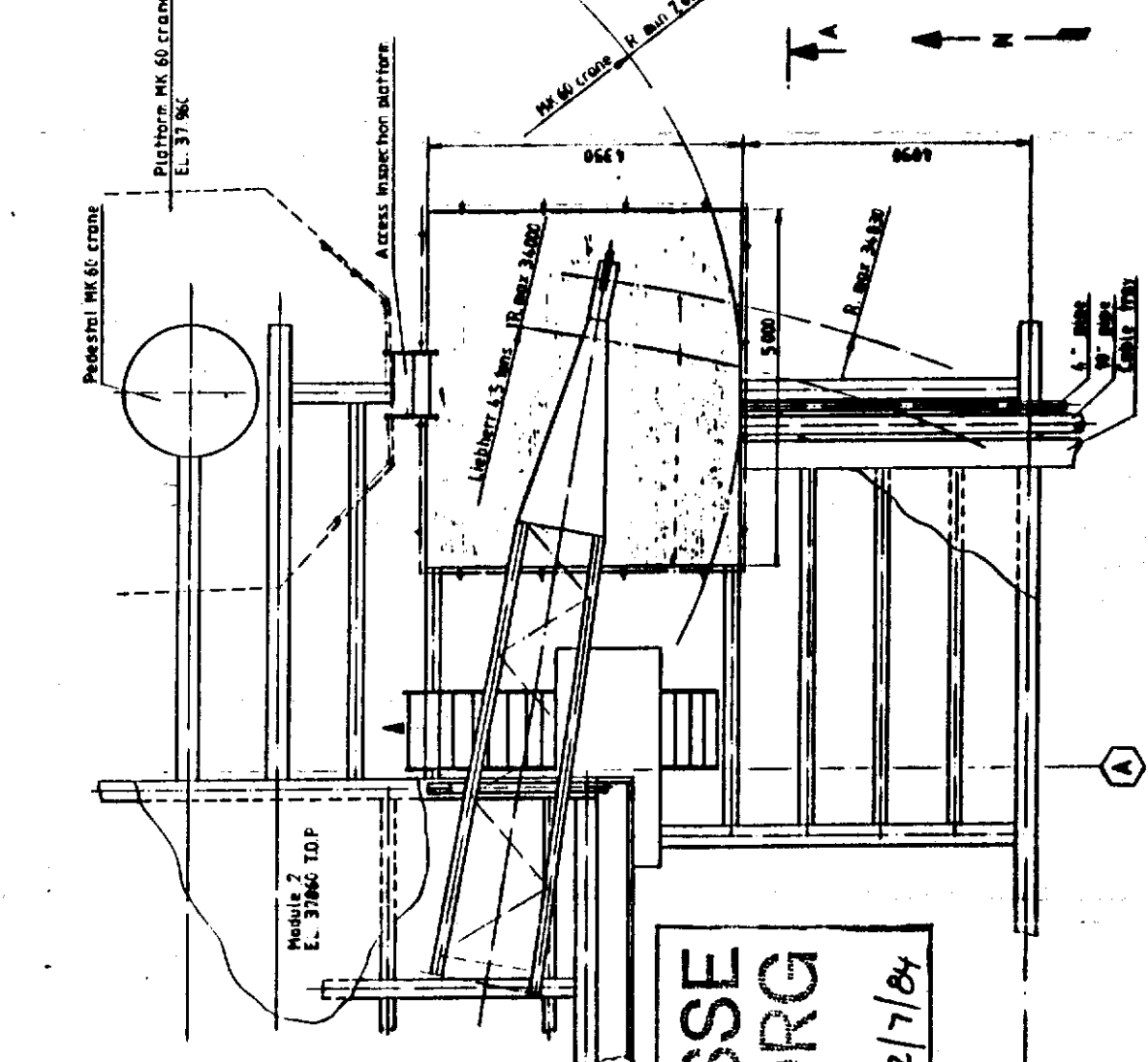
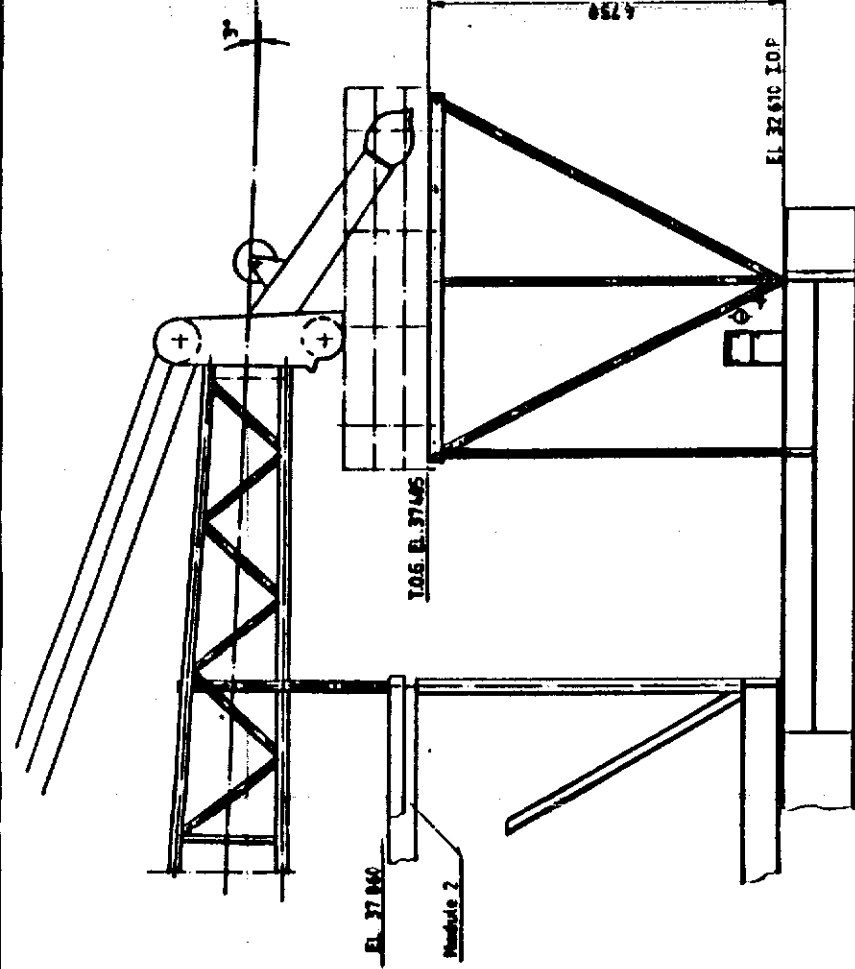
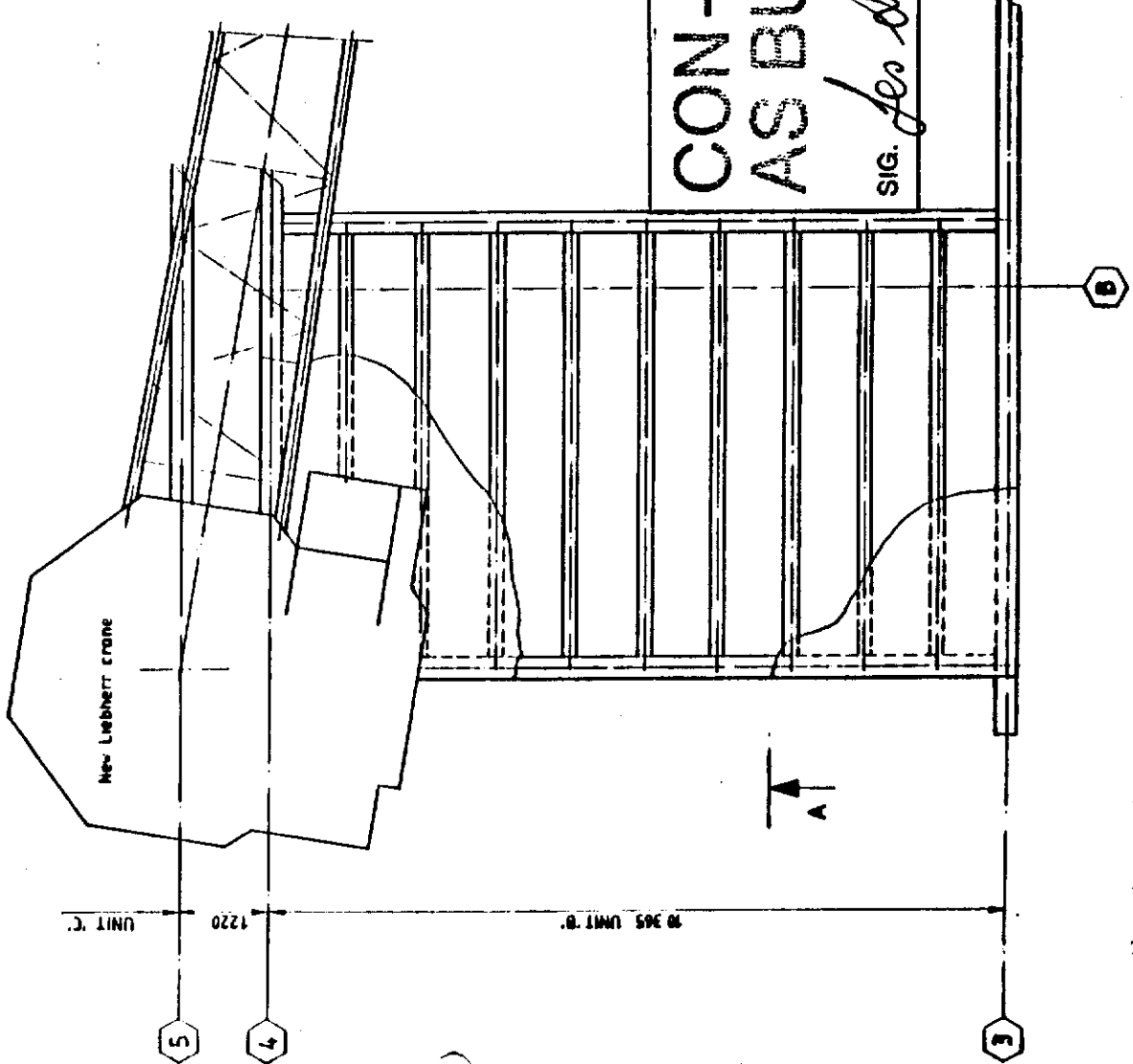
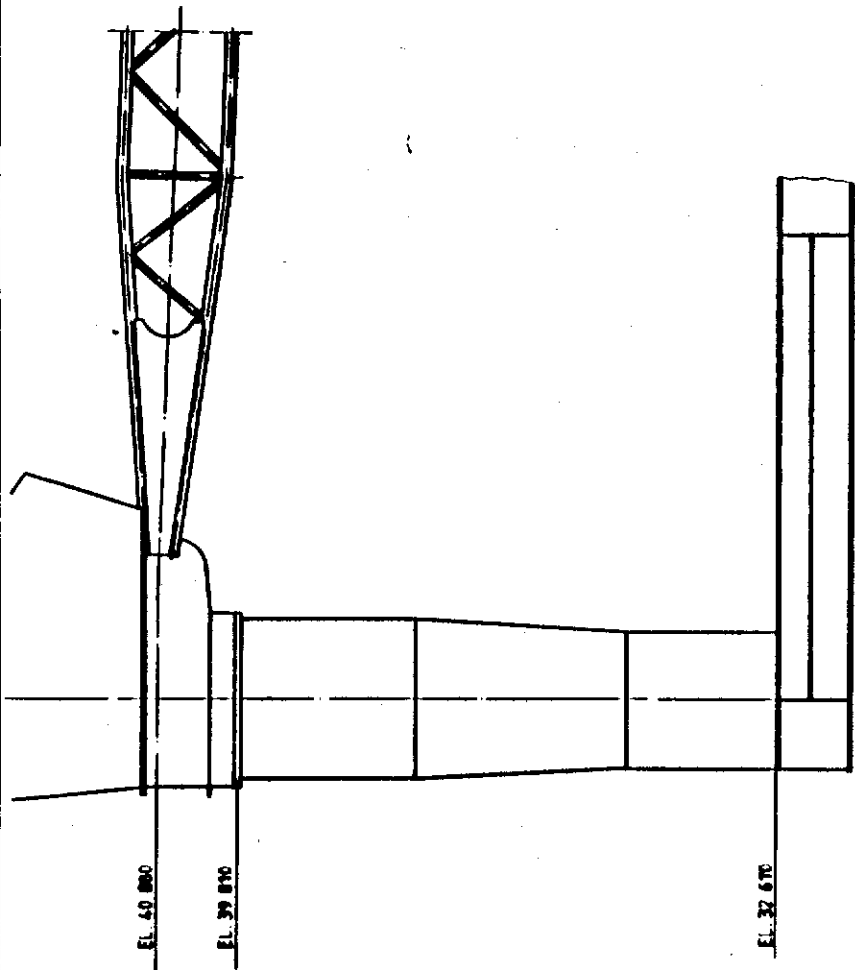
DATE 2/7/84

- Fabrication spec FF 10-21-S-003
- Material spec FF 10-21-S-002
- Painting spec SG 1350-02-C7 Rev 1/4-80
- Weight of new steel 8400 lbs
- New steel shown dark on drawing
- Existing stair-way at south side of ssg - after -
- tank, to be removed before installation of structure - support.
- Existing tube (horizontally) at the south side of section - to be rearranged

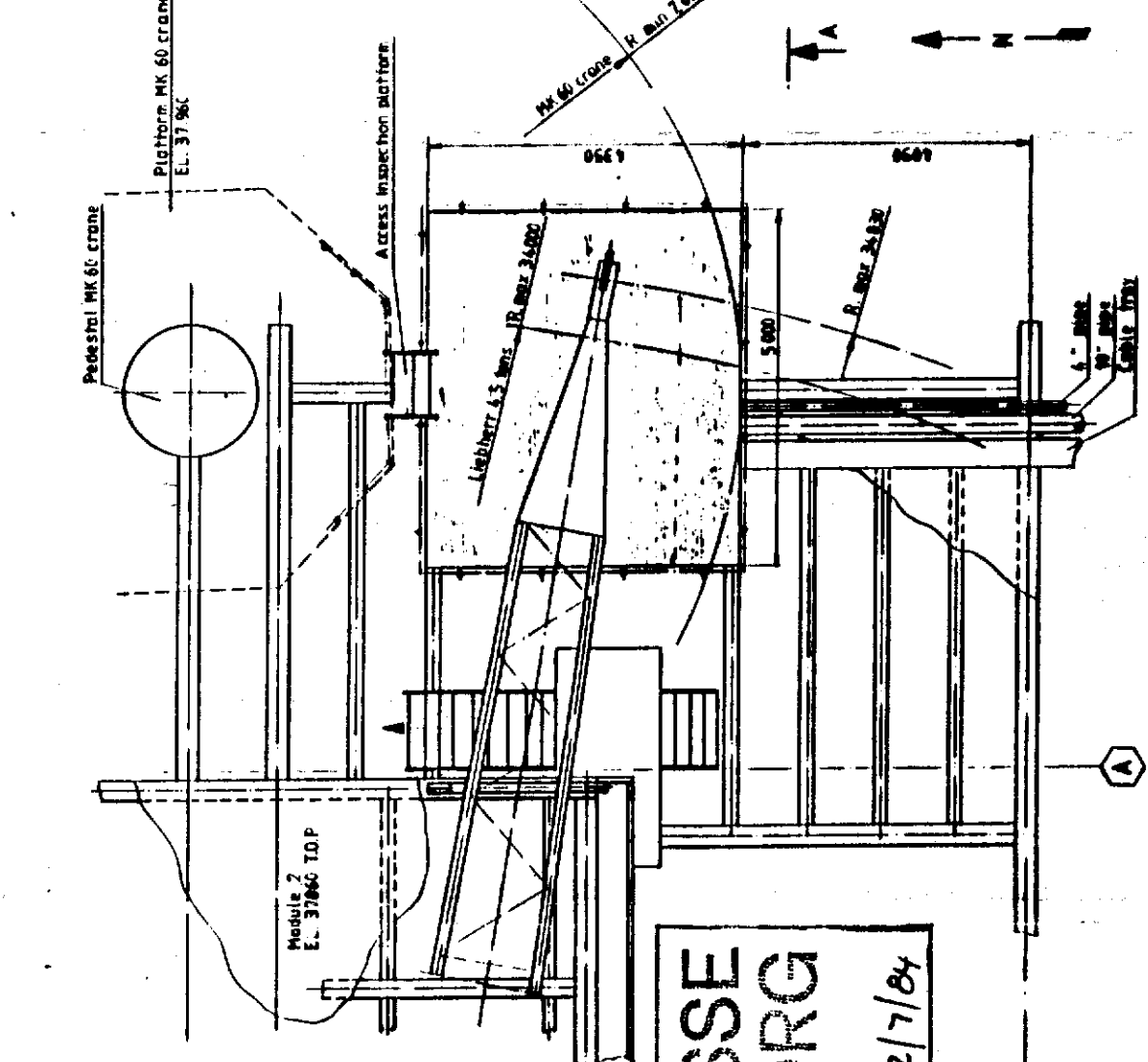
Deletion
 Machined Medium NS 1430 (150 lbs) FS 16 I
 Welded Grade B NS 1632 (10 IN 0517)

- Buty's-Lie co B67C72	EF 03 21 26 30 15
- Forex Neptune 16'A0002	EF 03 21 26 30 16
- Offshore EUN 2-44708	EF 03 21 26 30 17
- Offshore installation	EF 03 21 26 30 18
- cover section	EF 03 21 26 30 19
- middle section	EF 03 21 26 30 20
- Platform	EF 03 21 26 30 21
- Details & reinforcements	EF 03 21 26 30 22
- Ladder & access-alkway	
- Crane support	
- Accesswalkway- details	

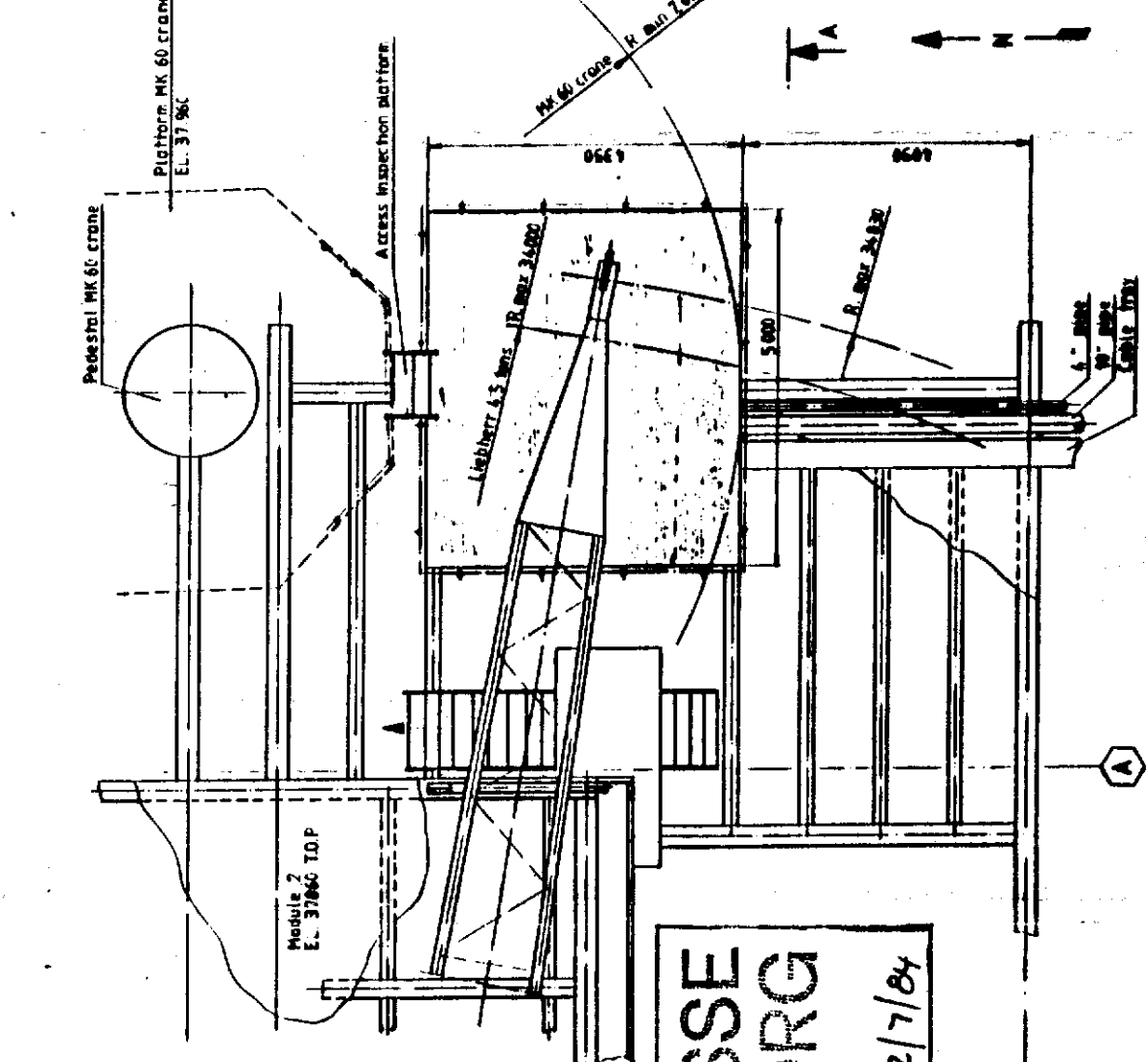
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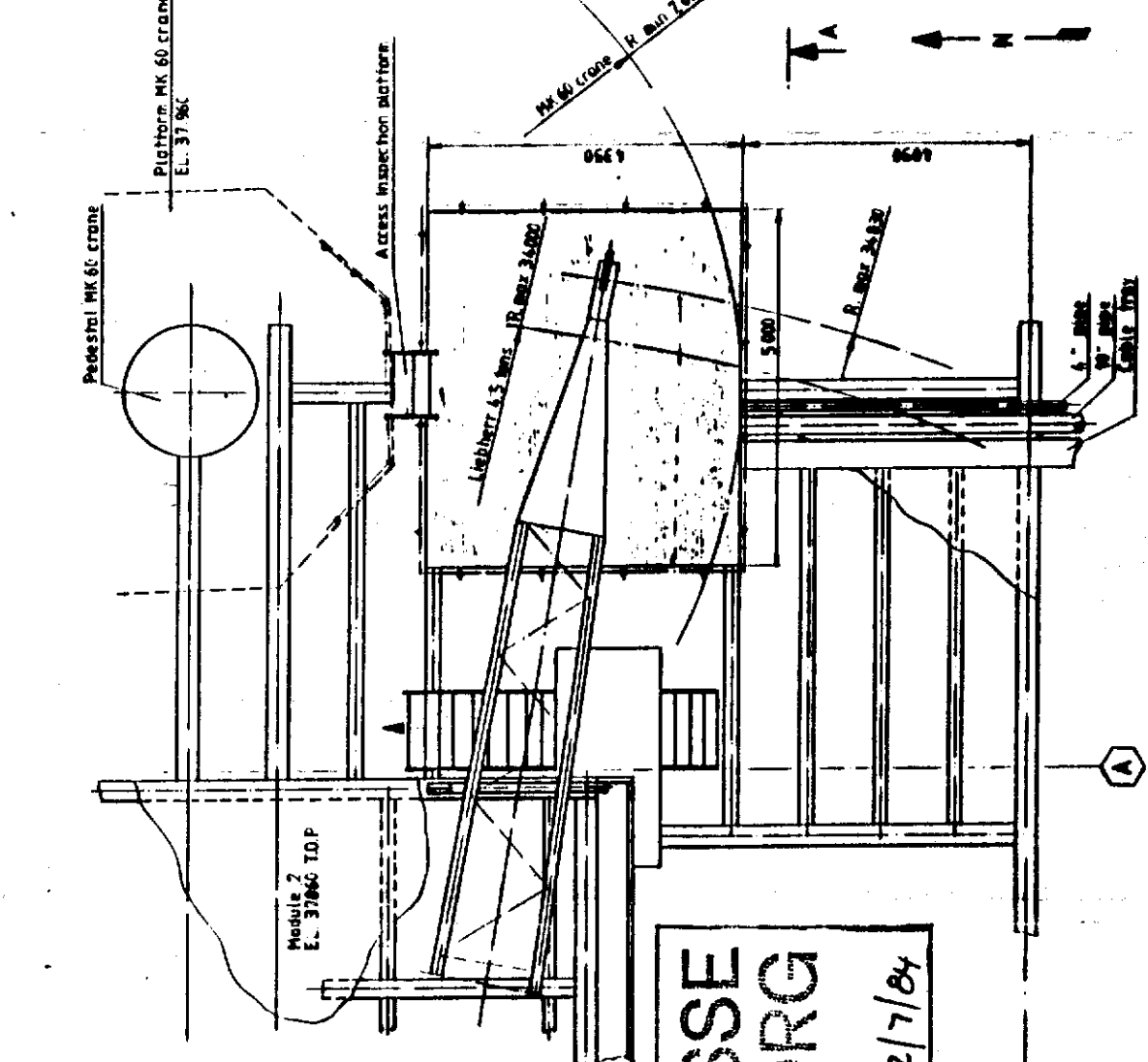
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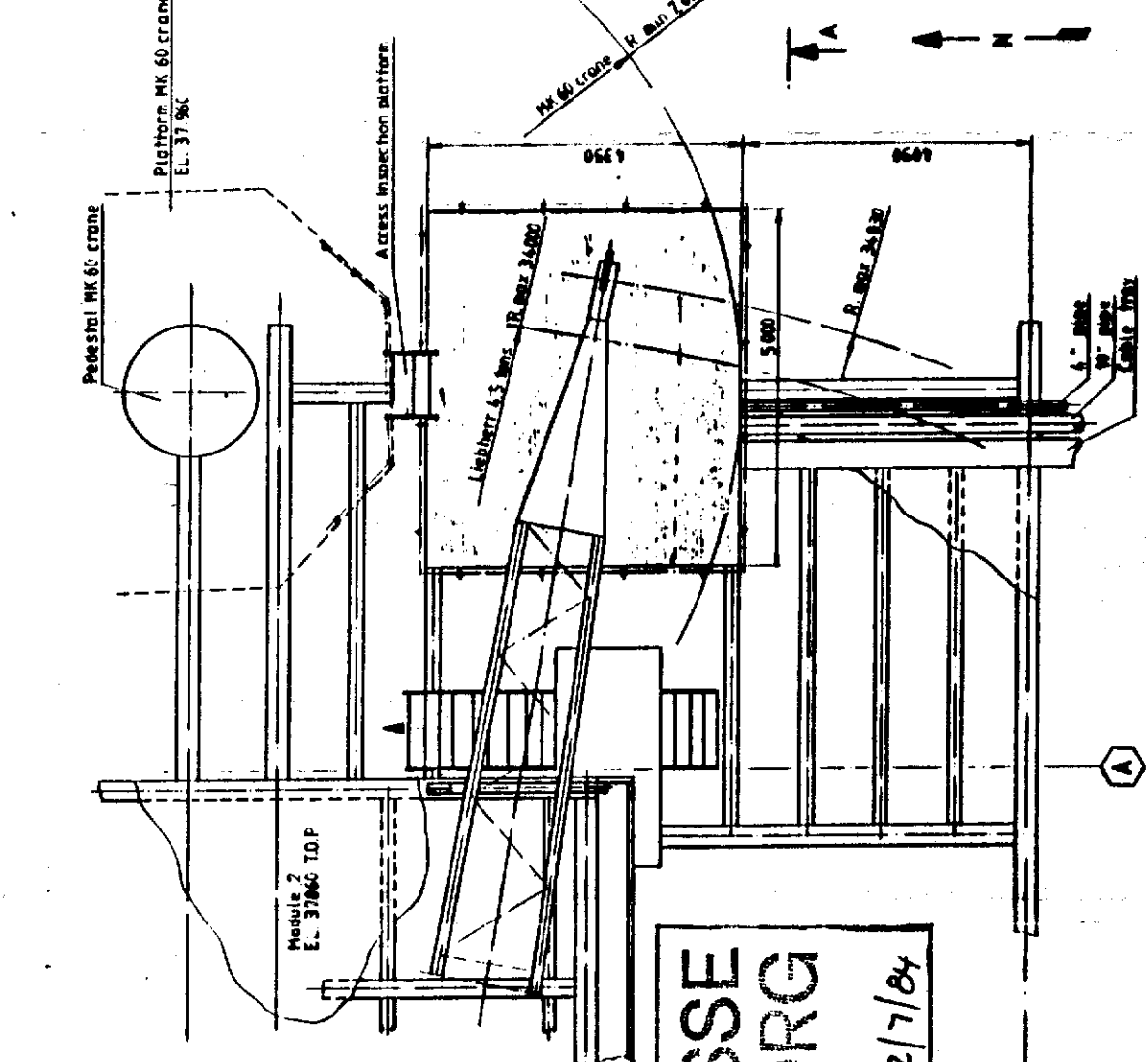
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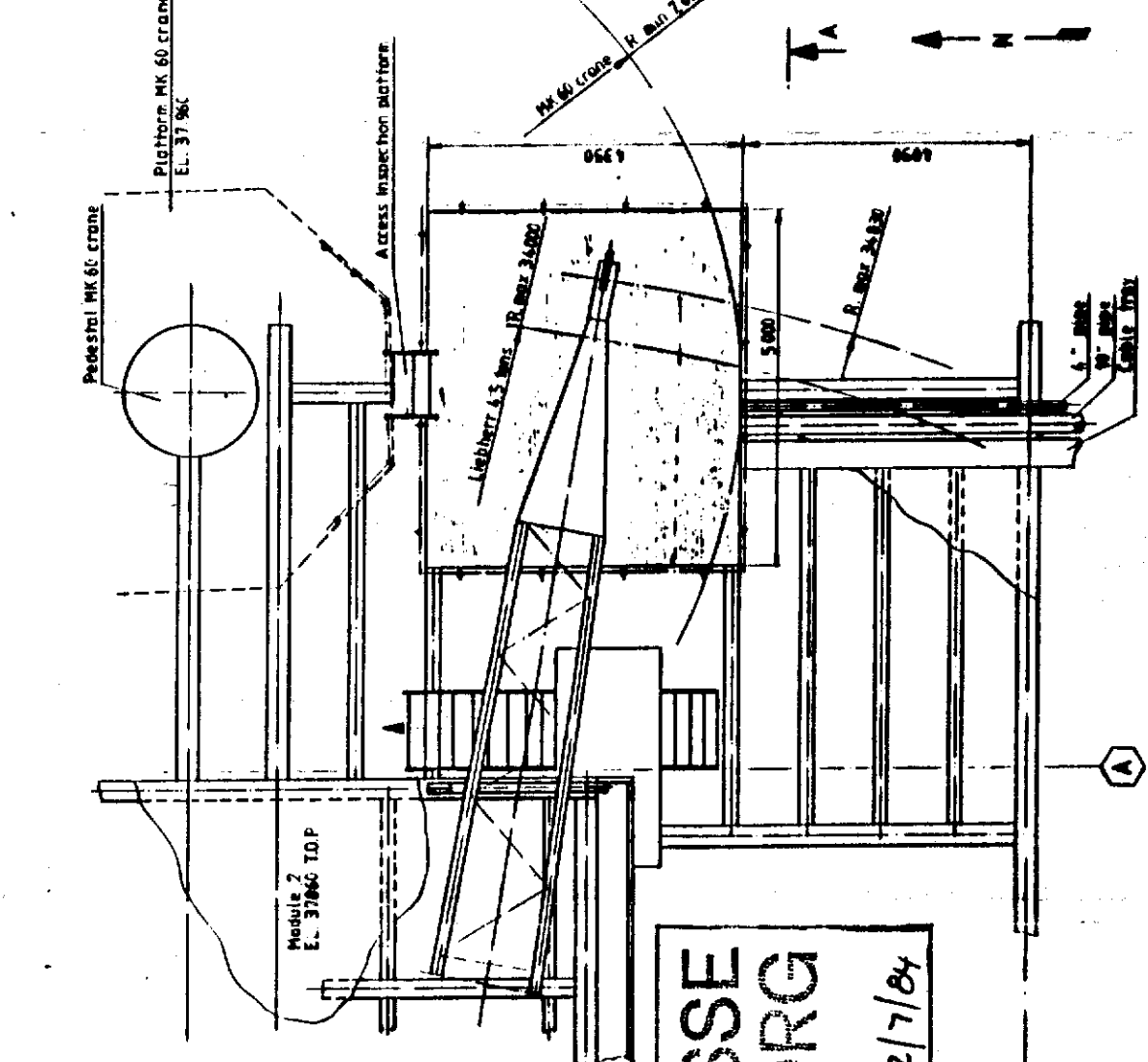
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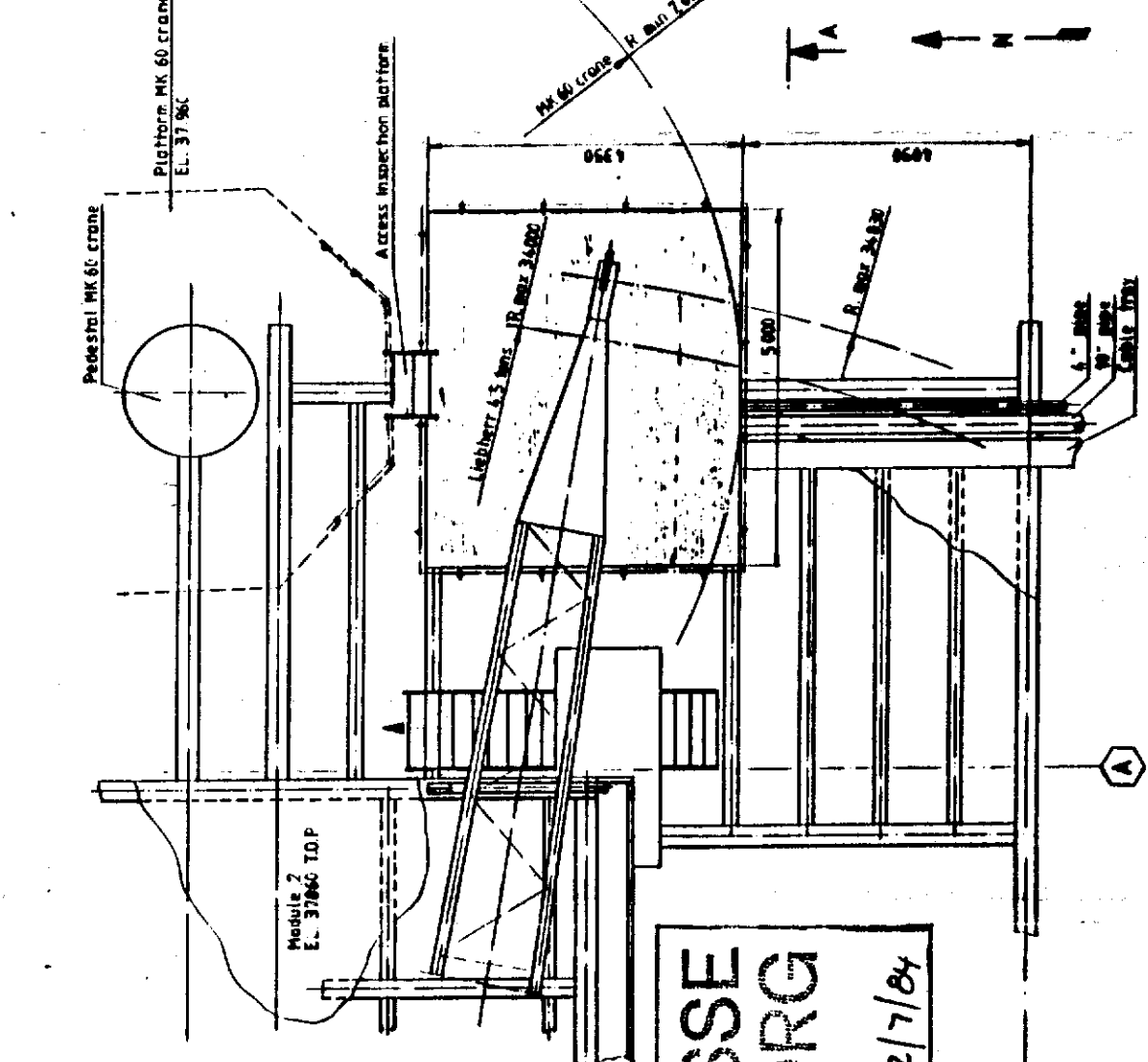
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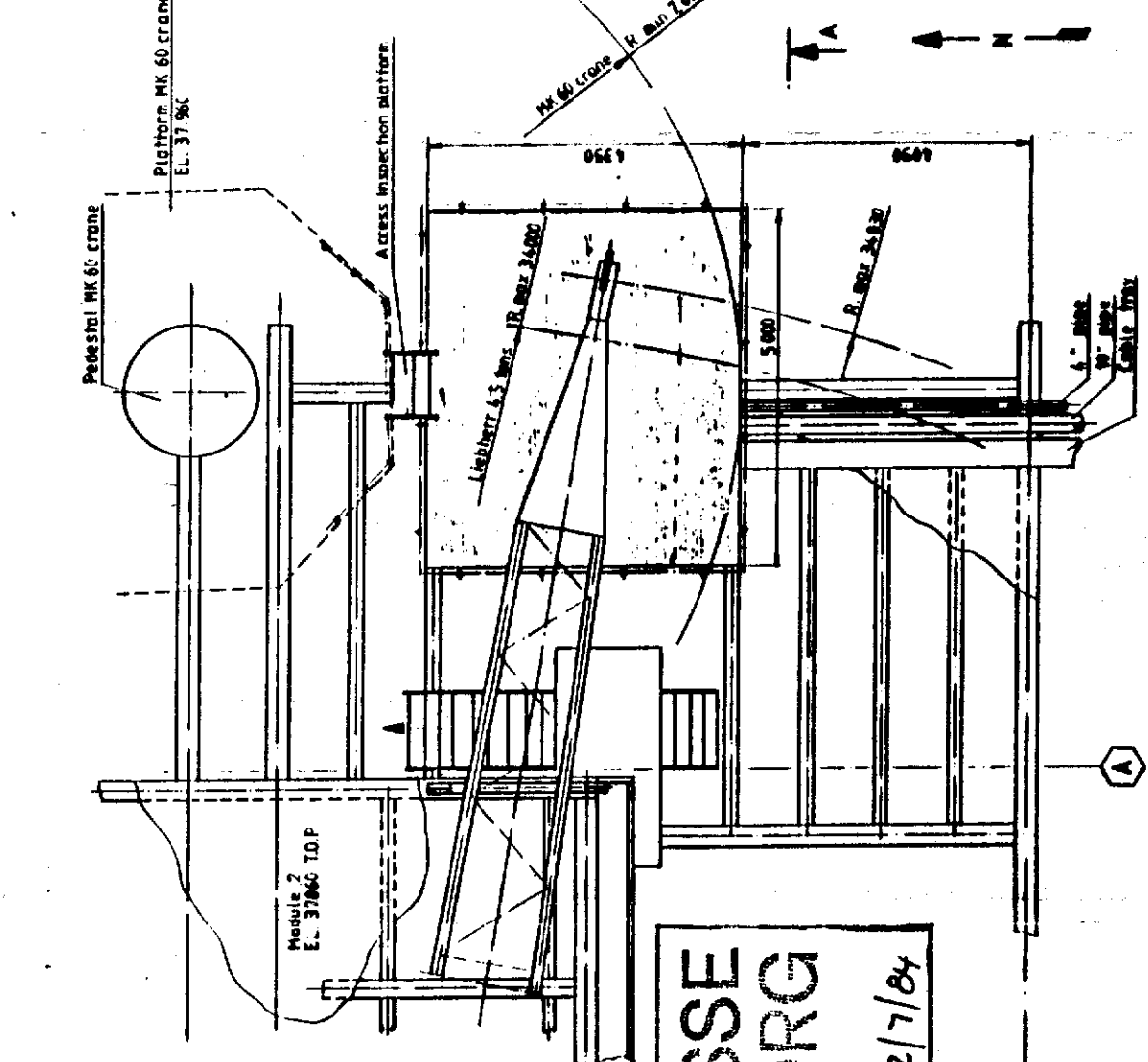
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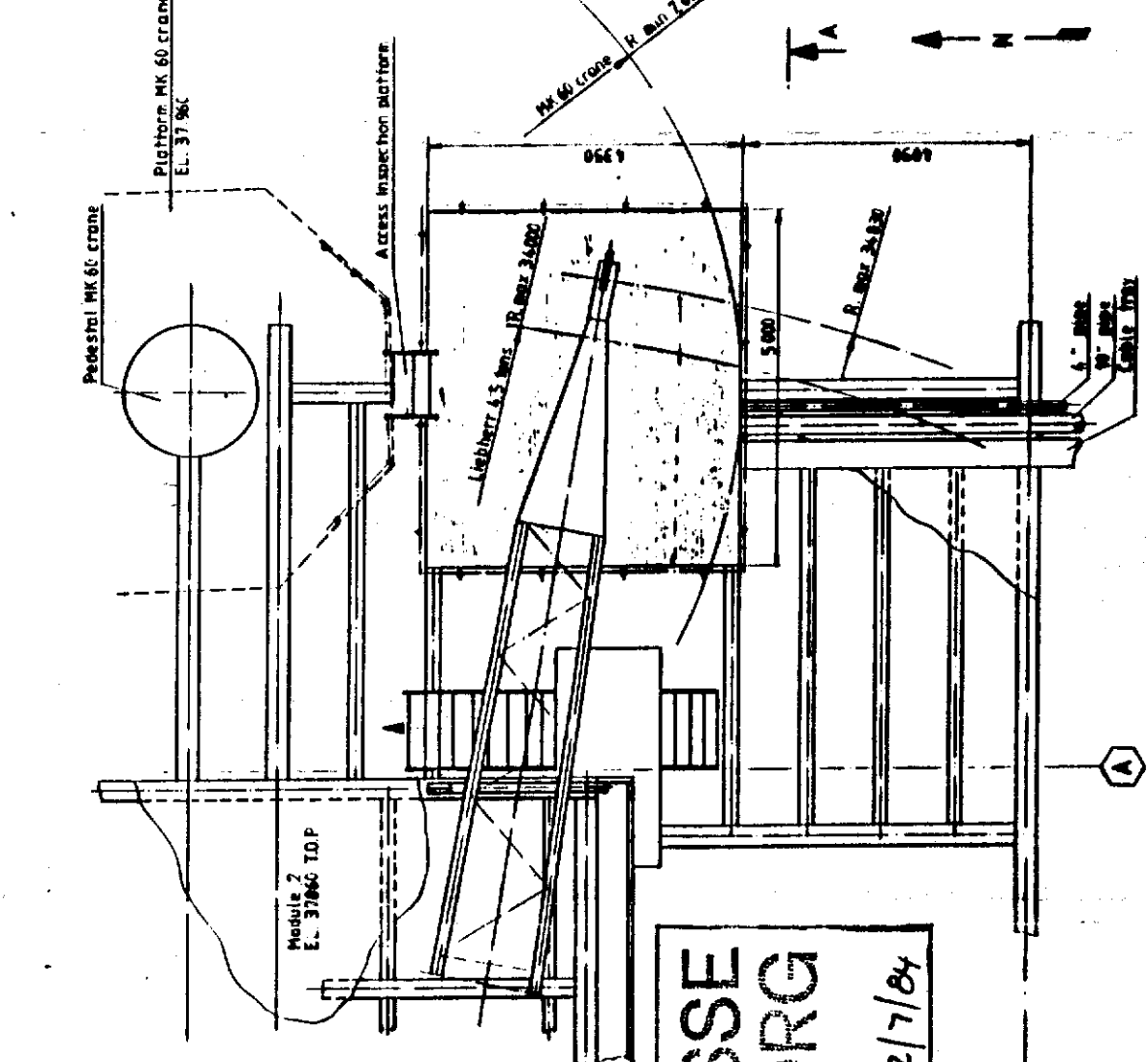
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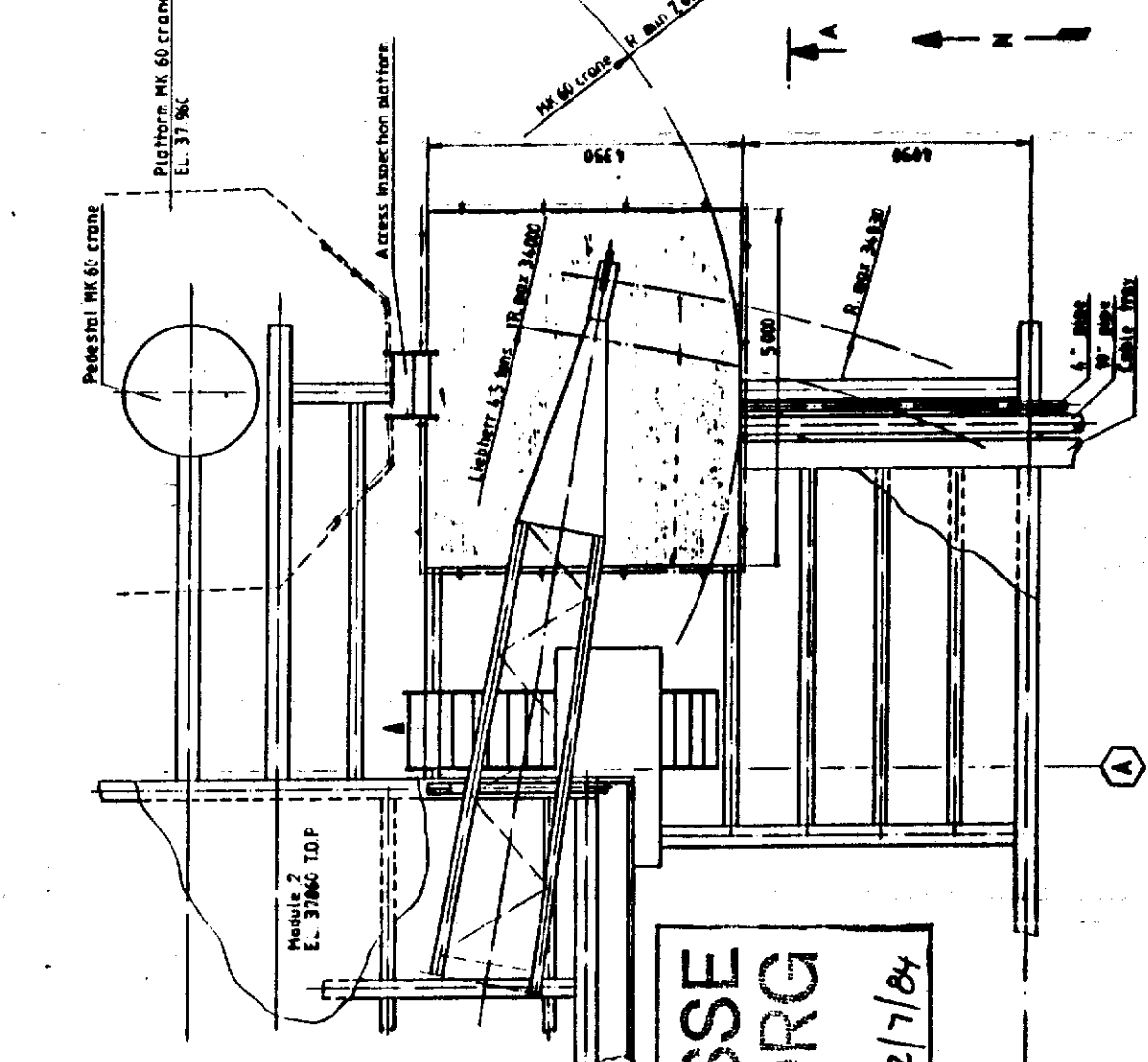
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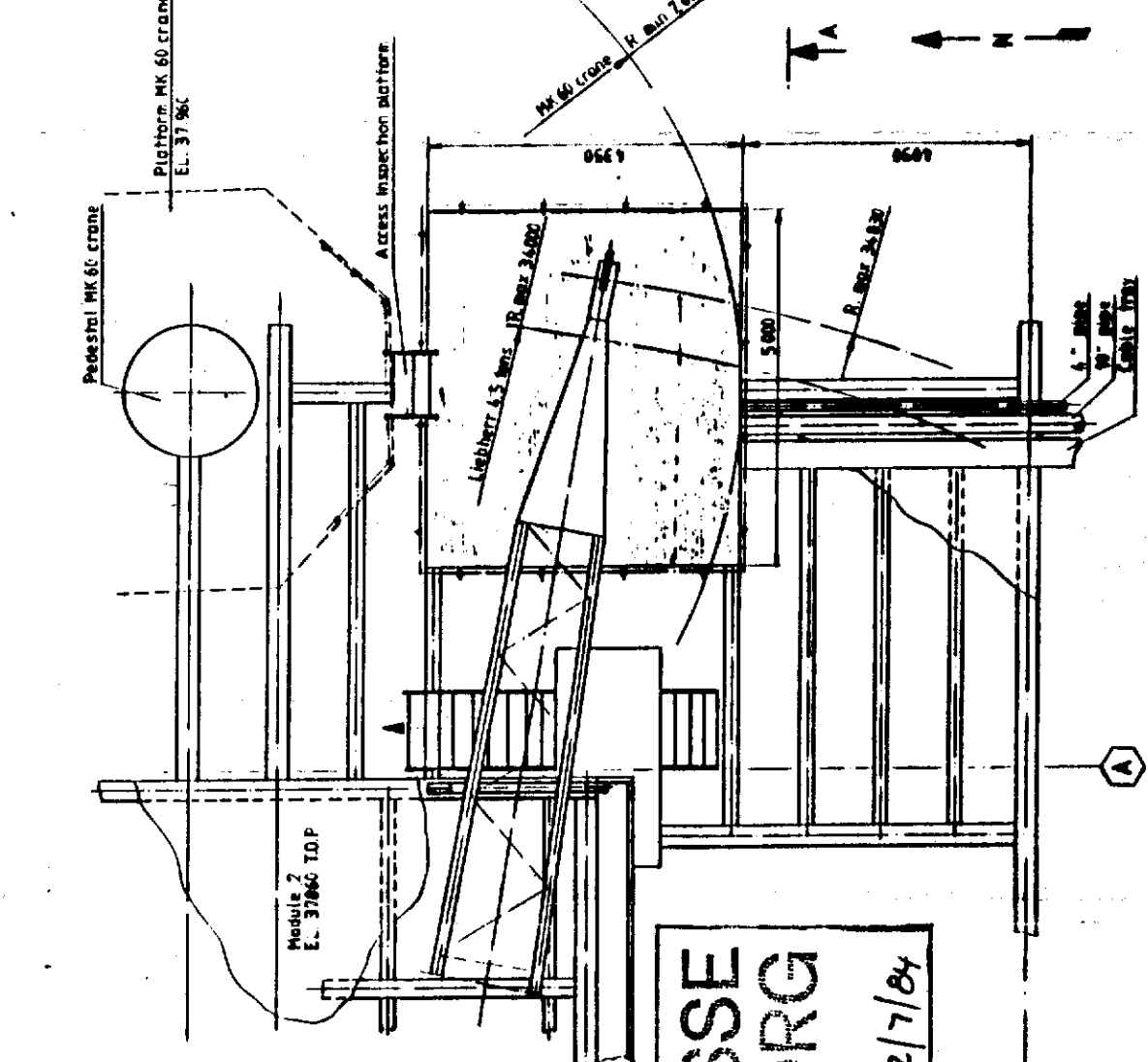
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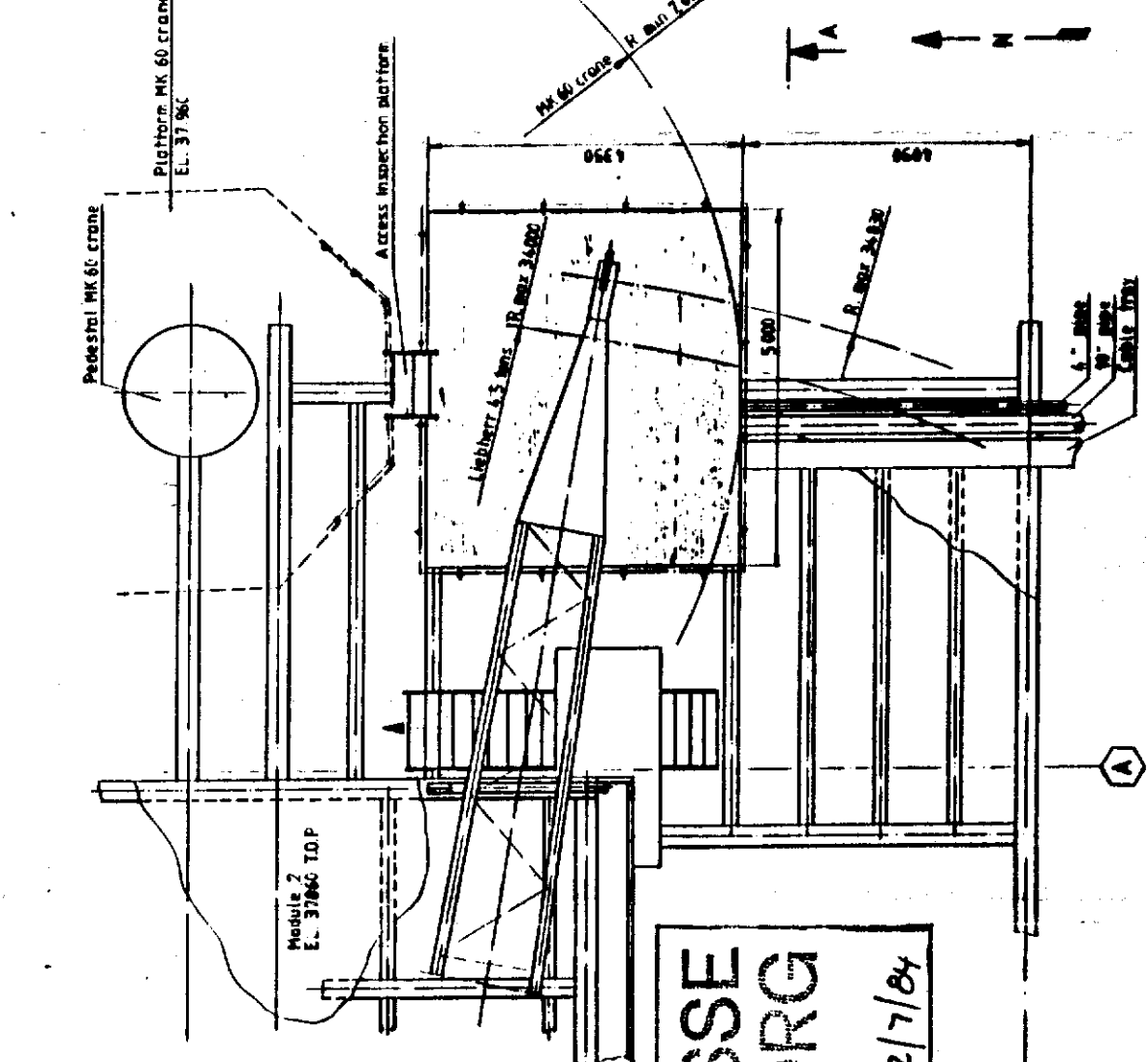
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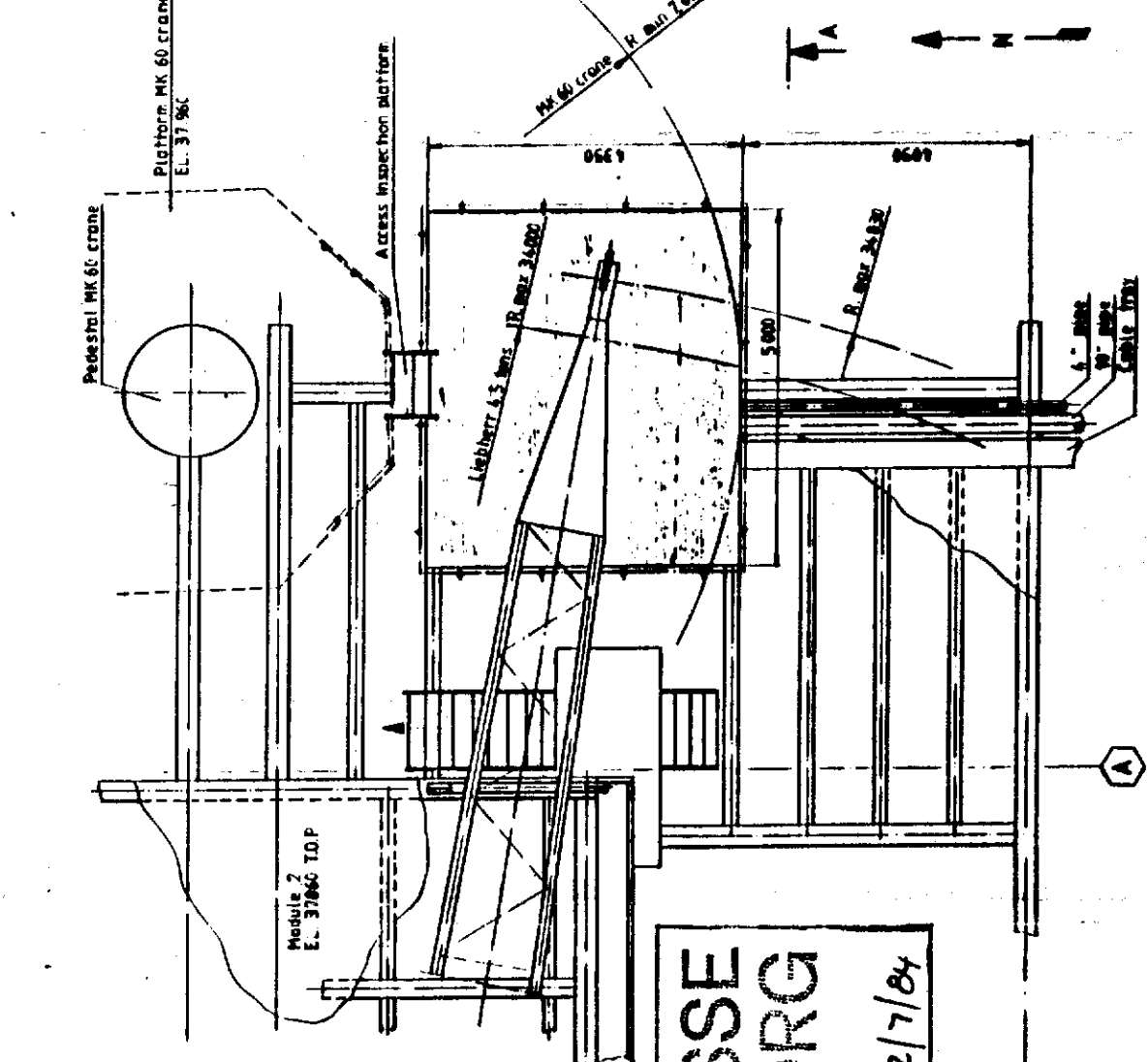
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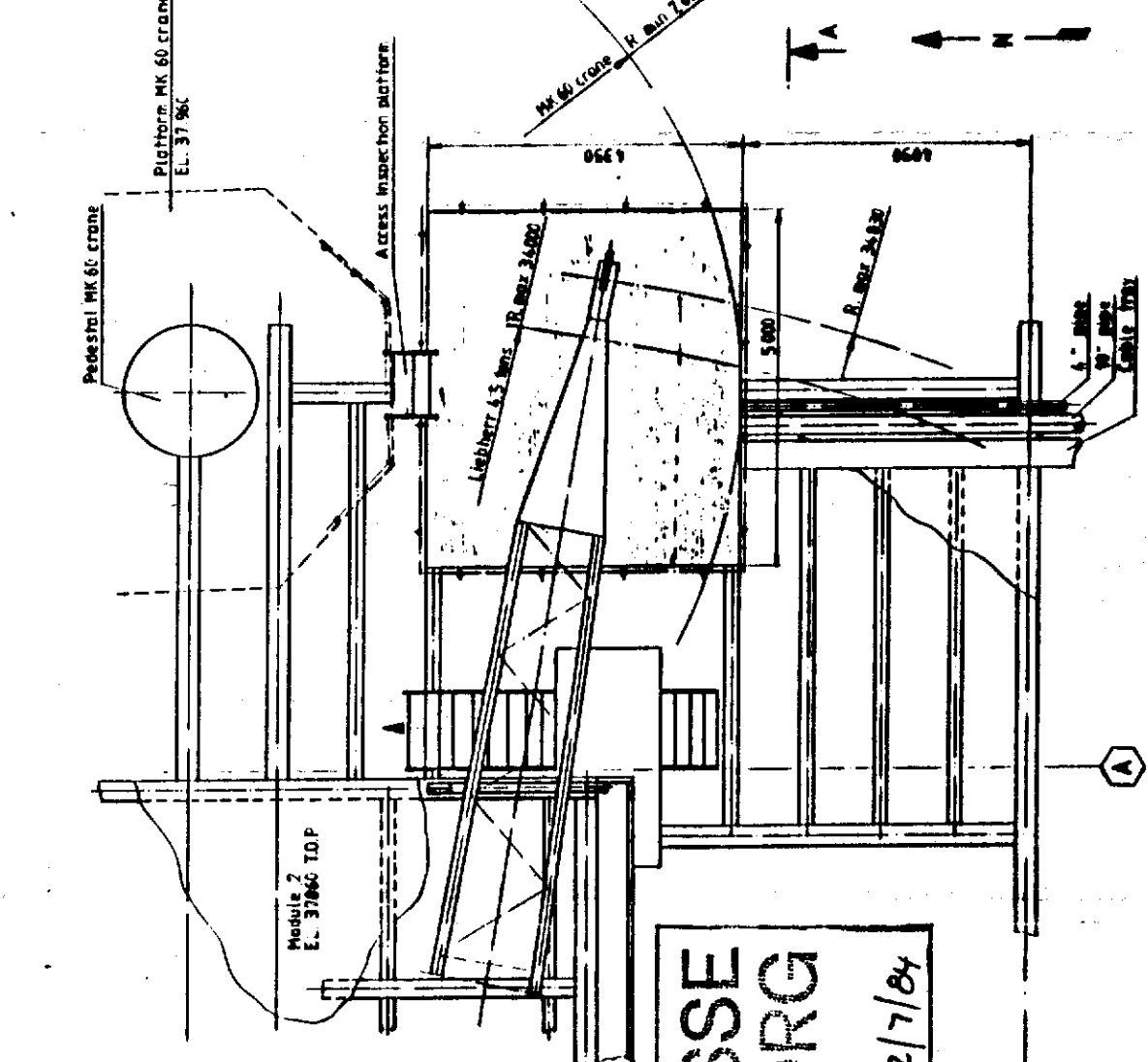
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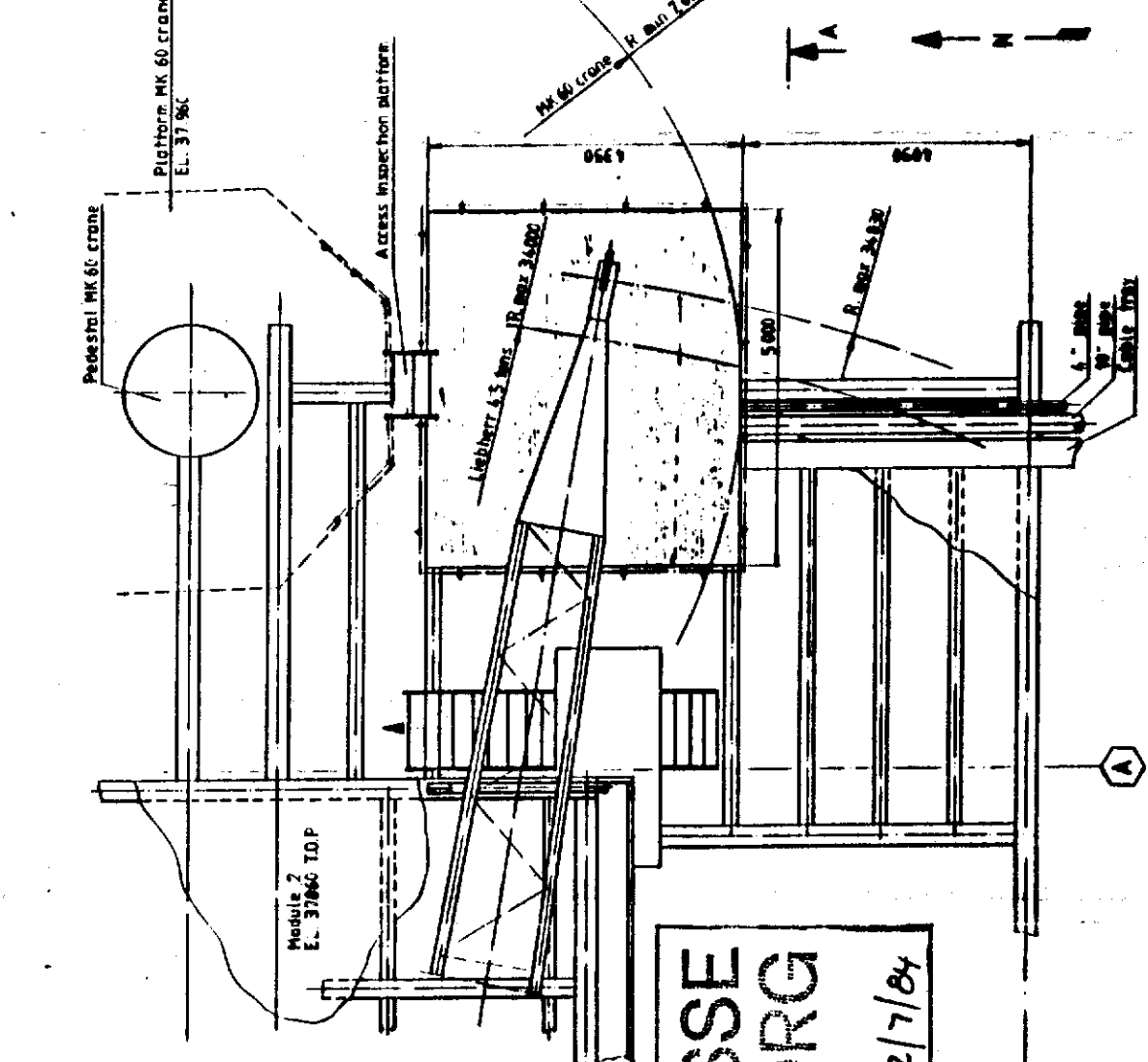
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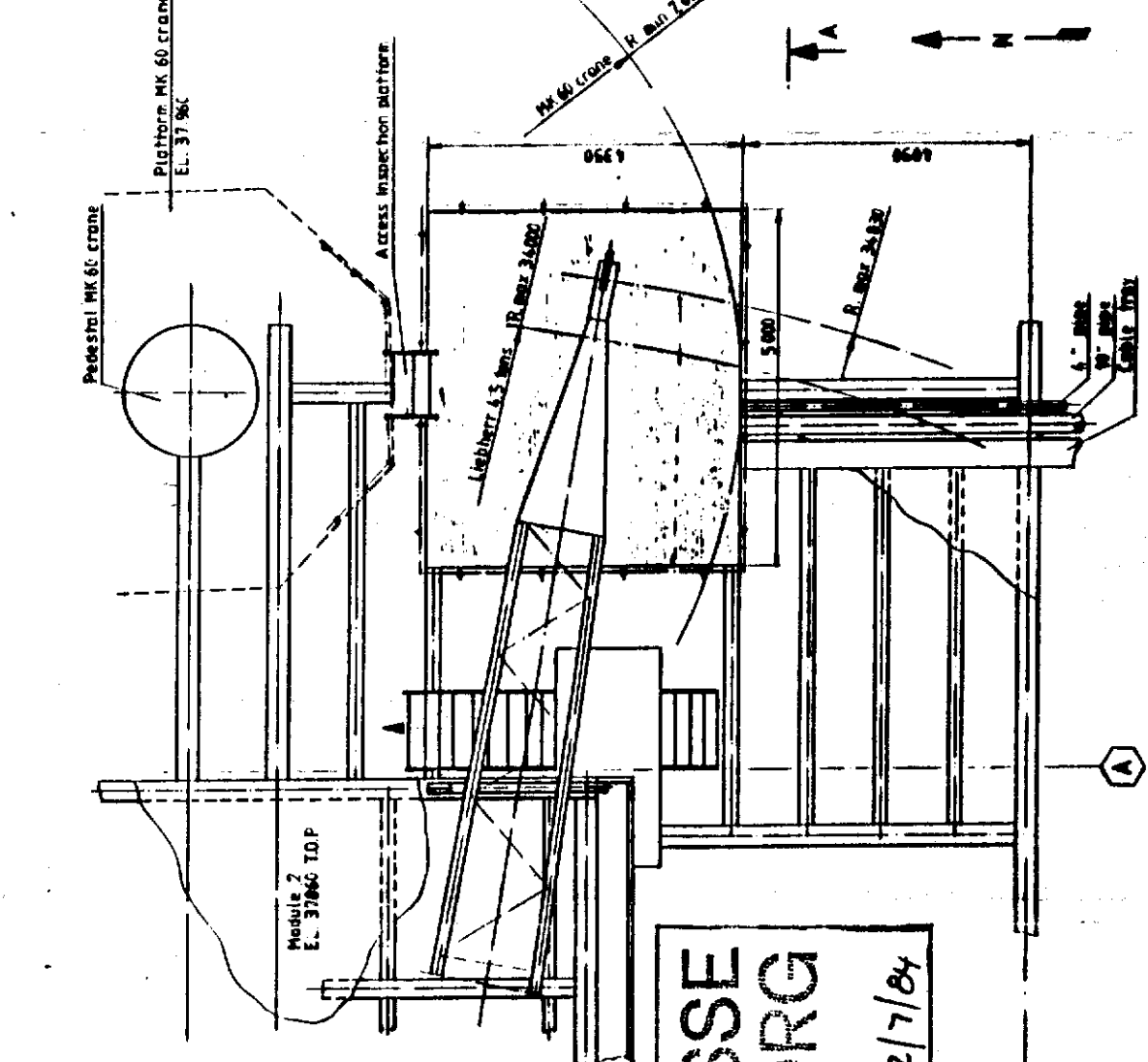
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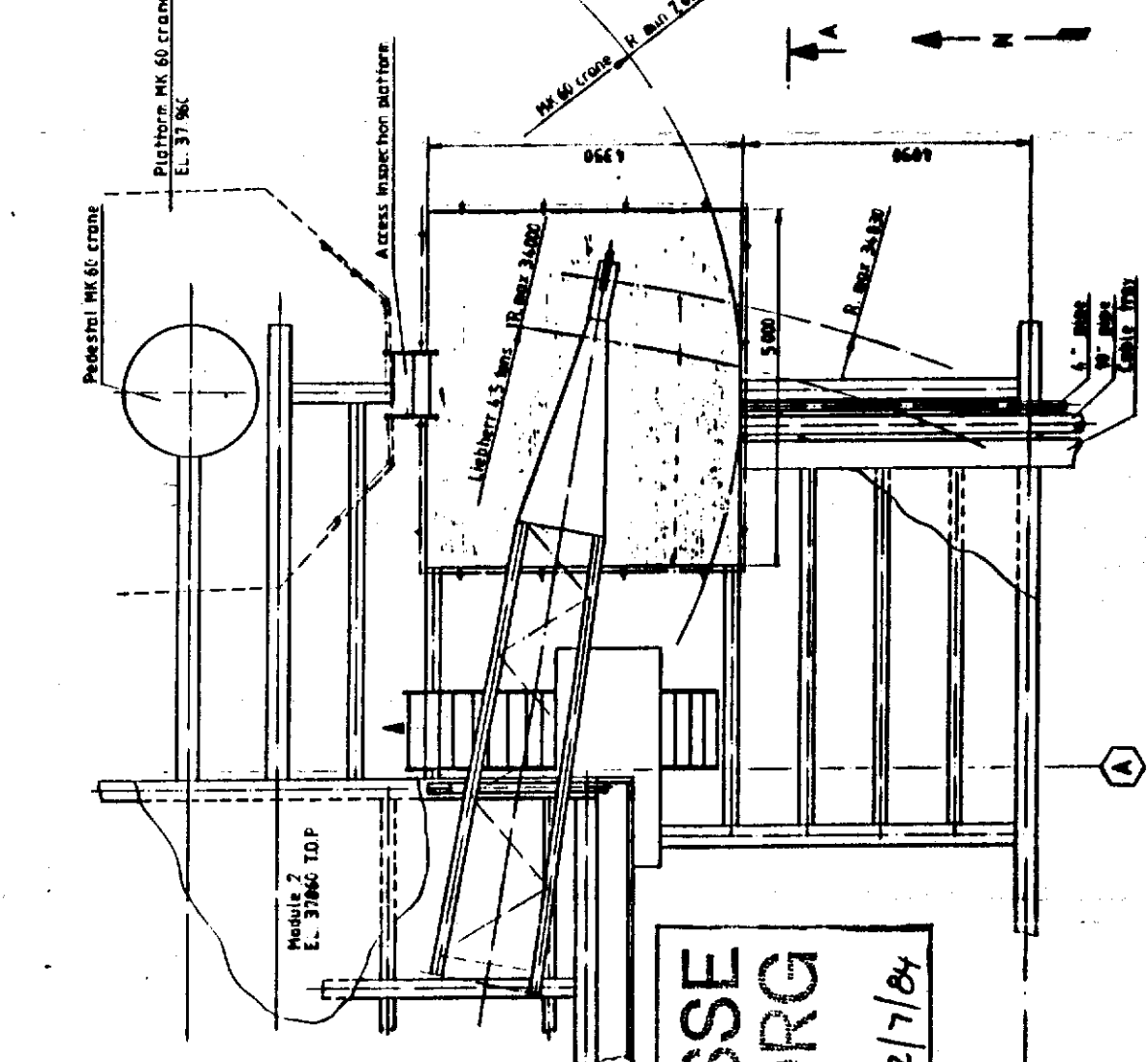
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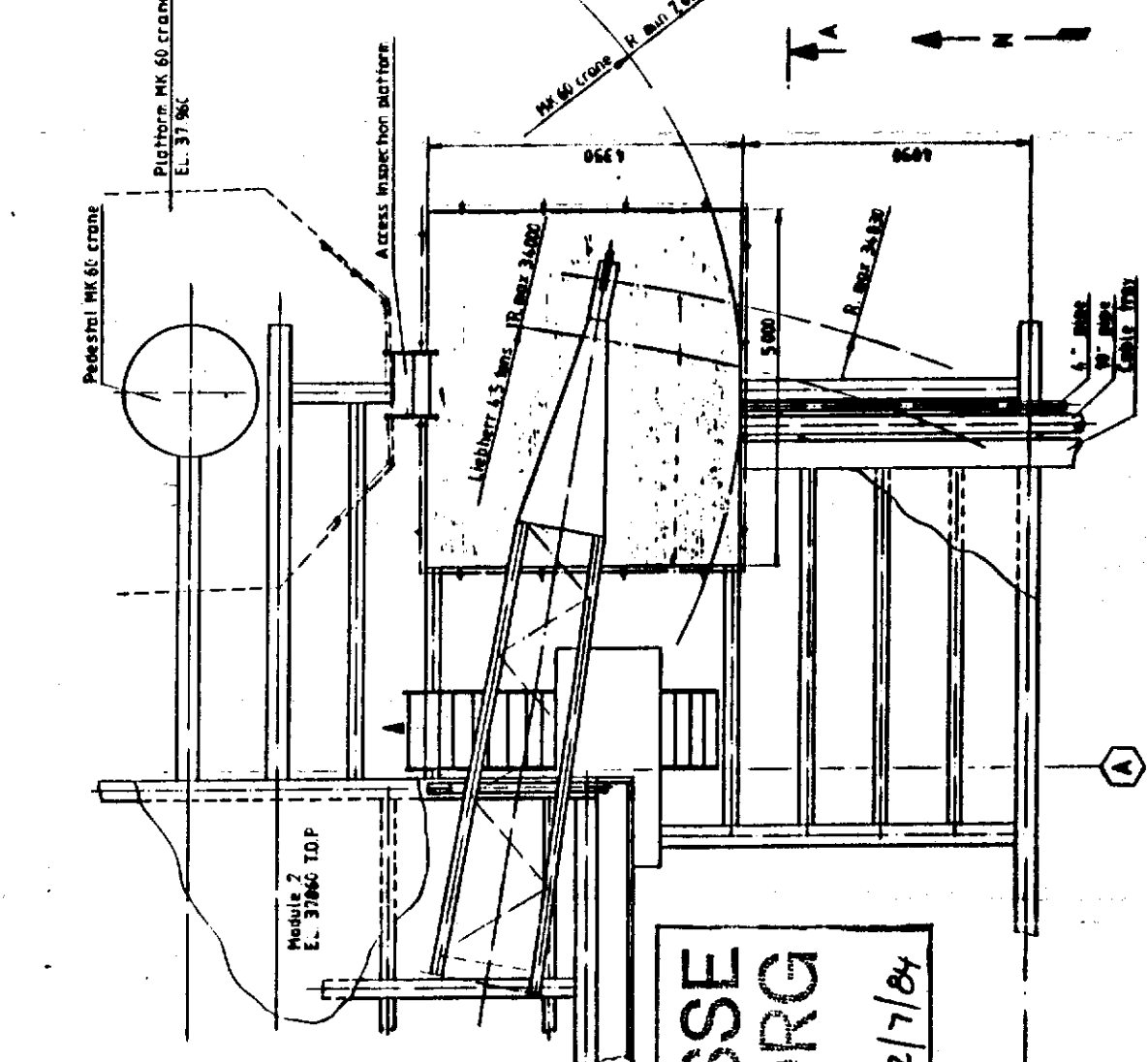
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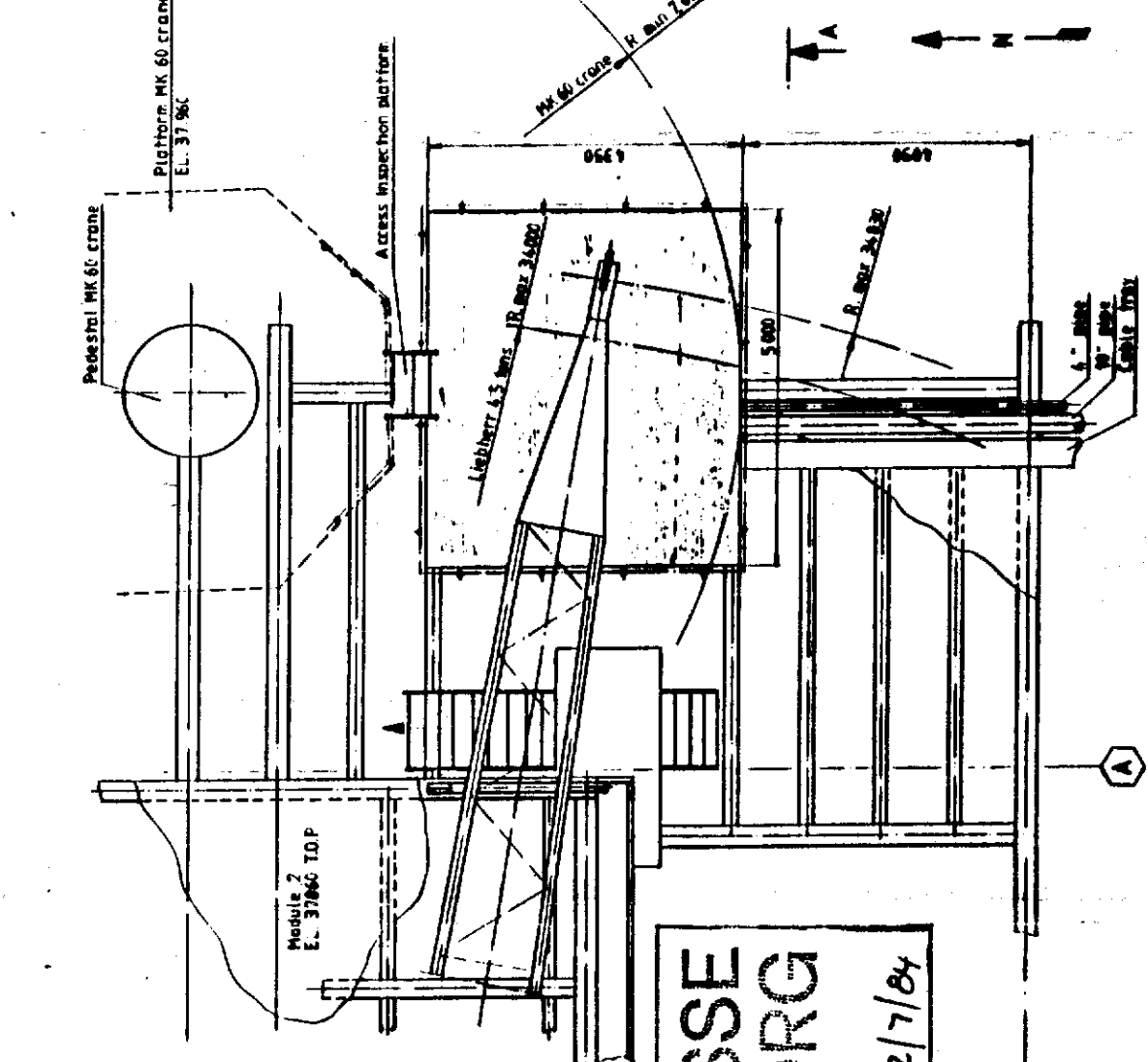
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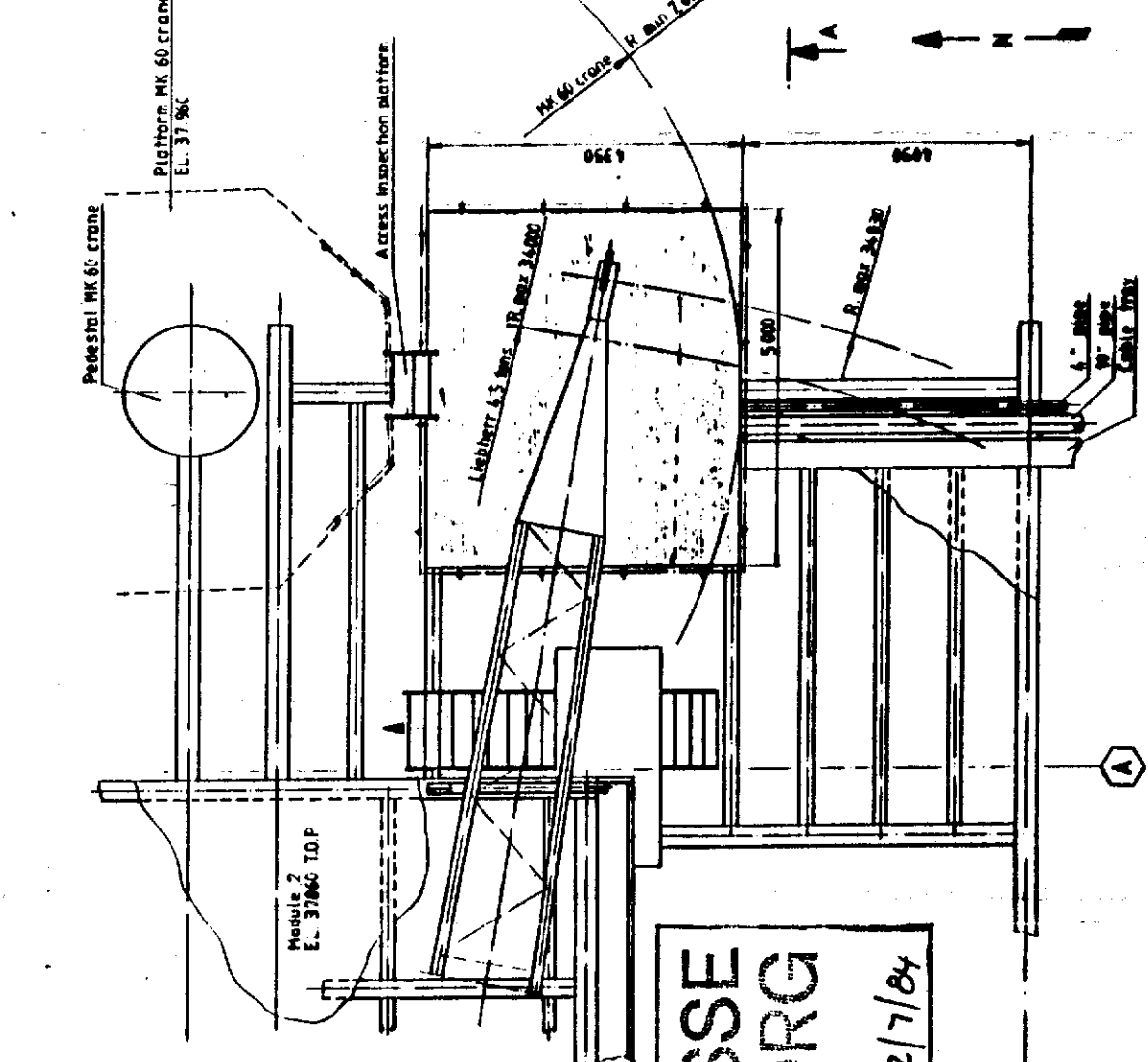
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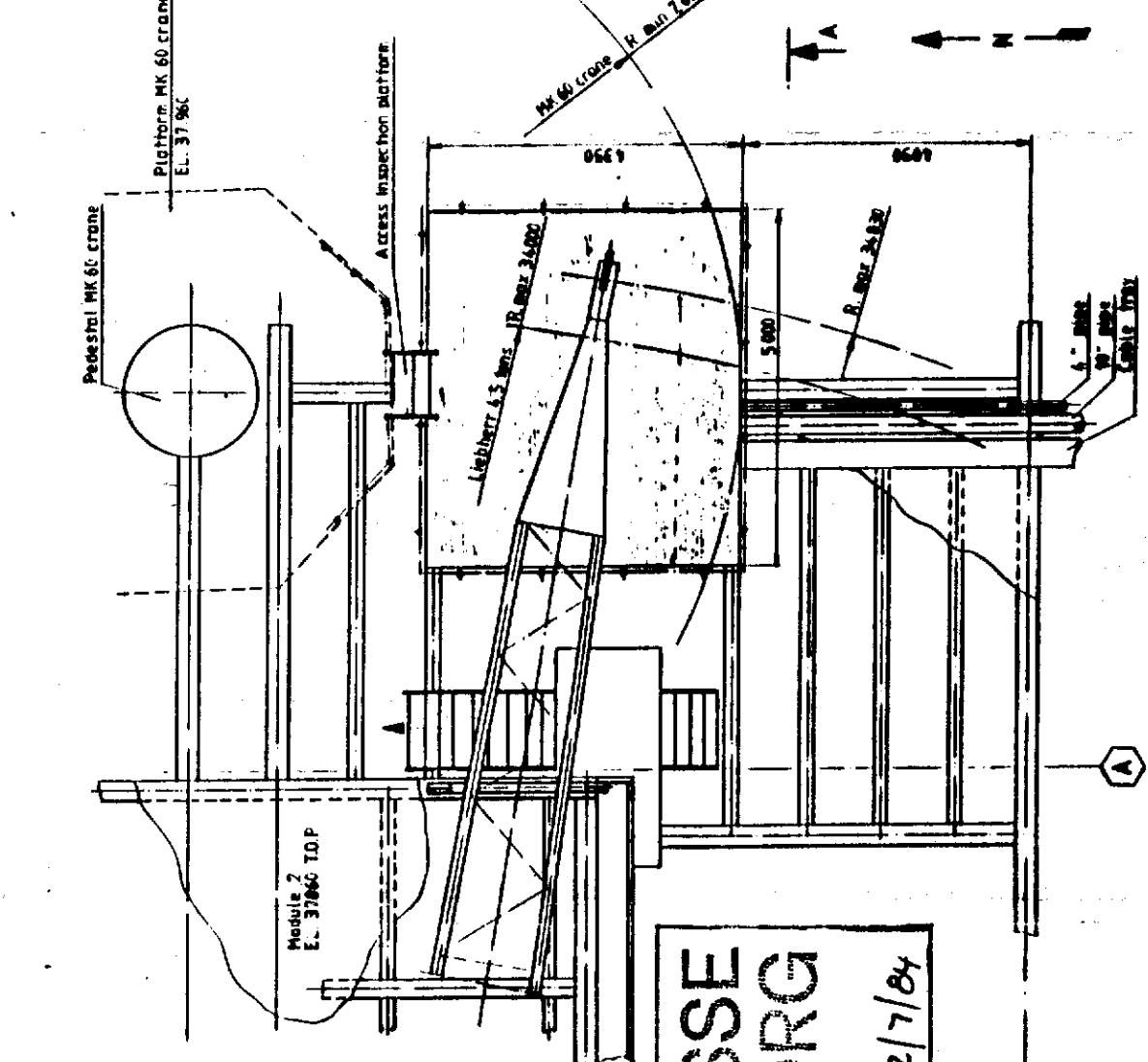
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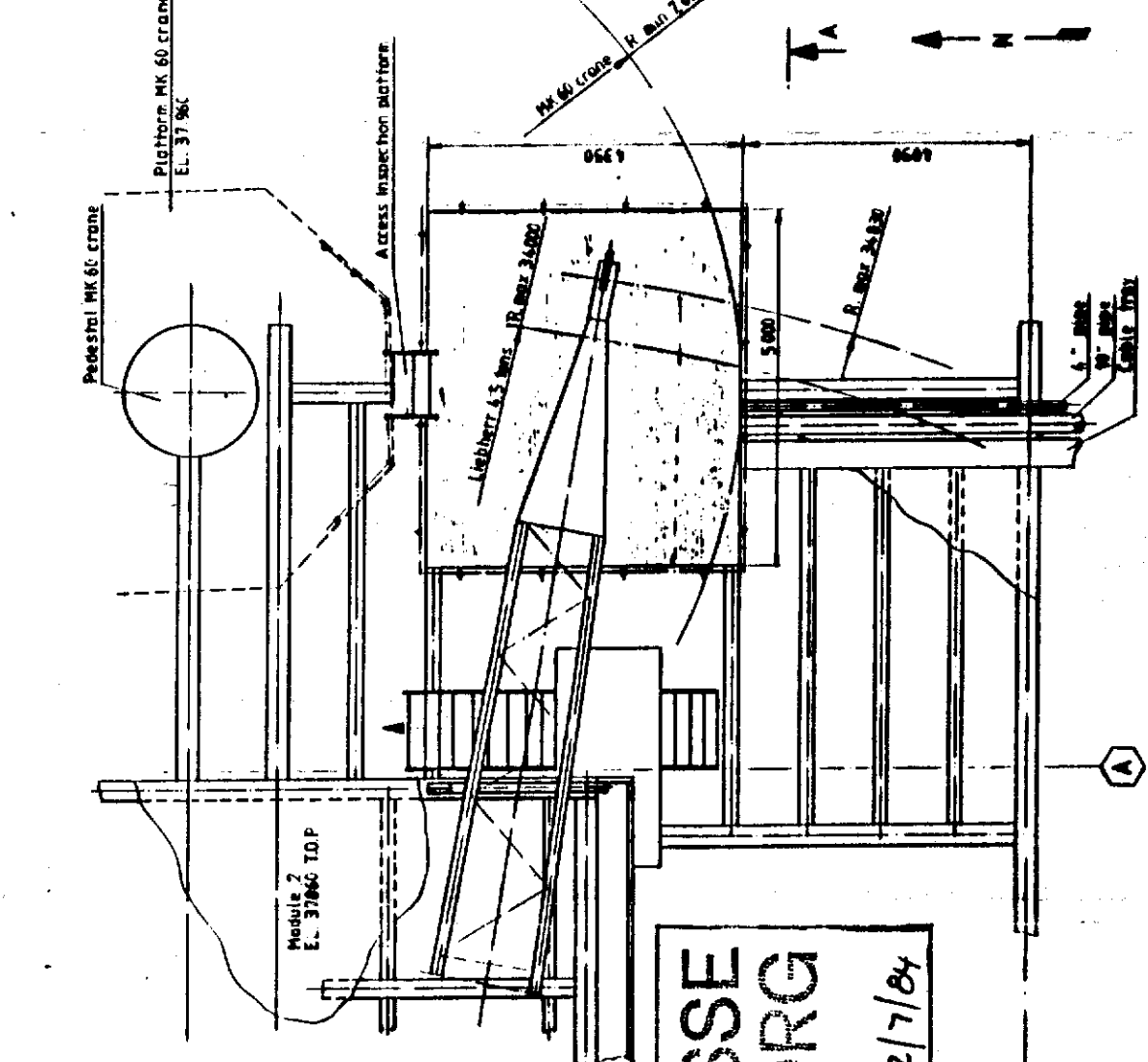
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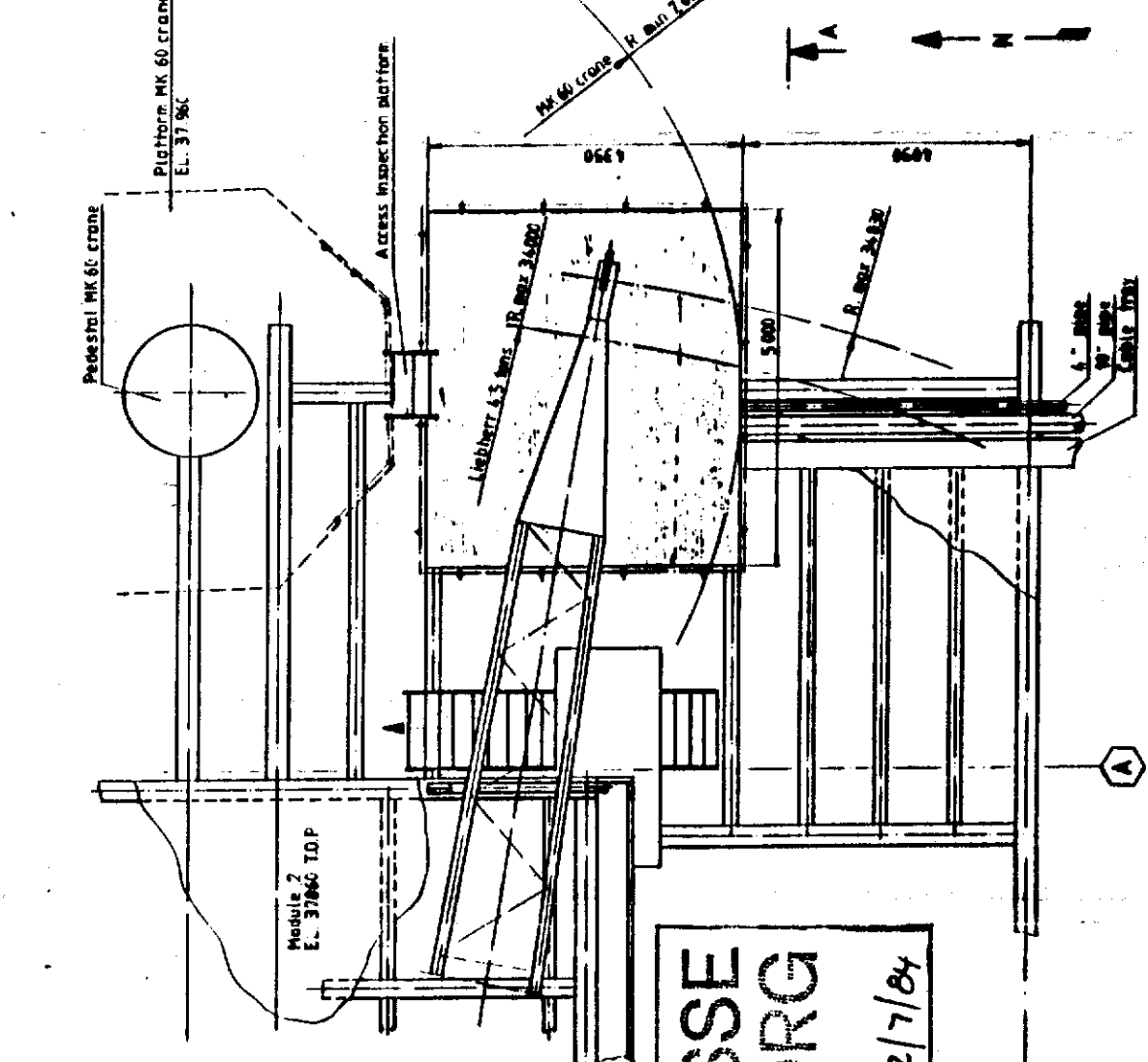
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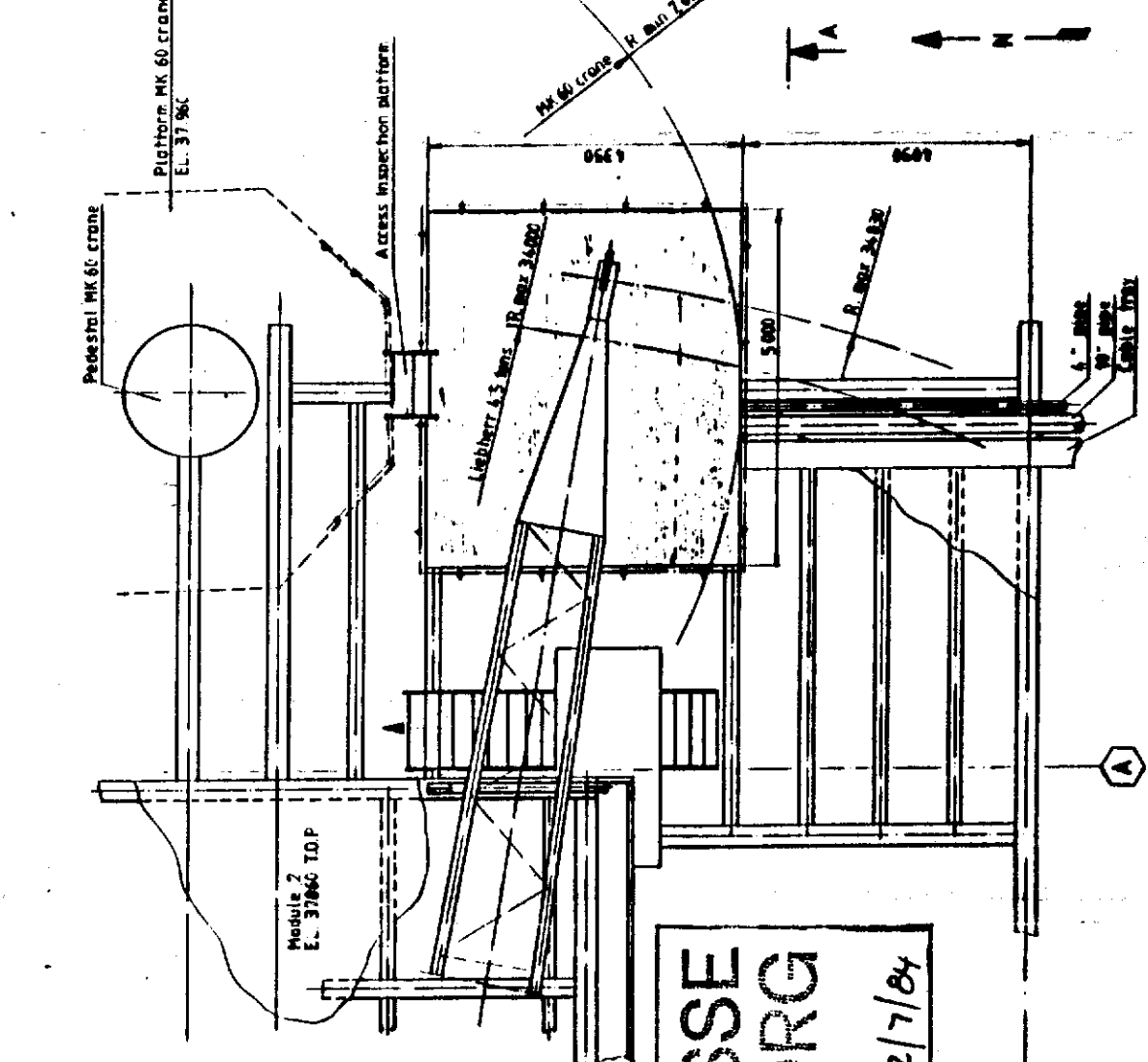
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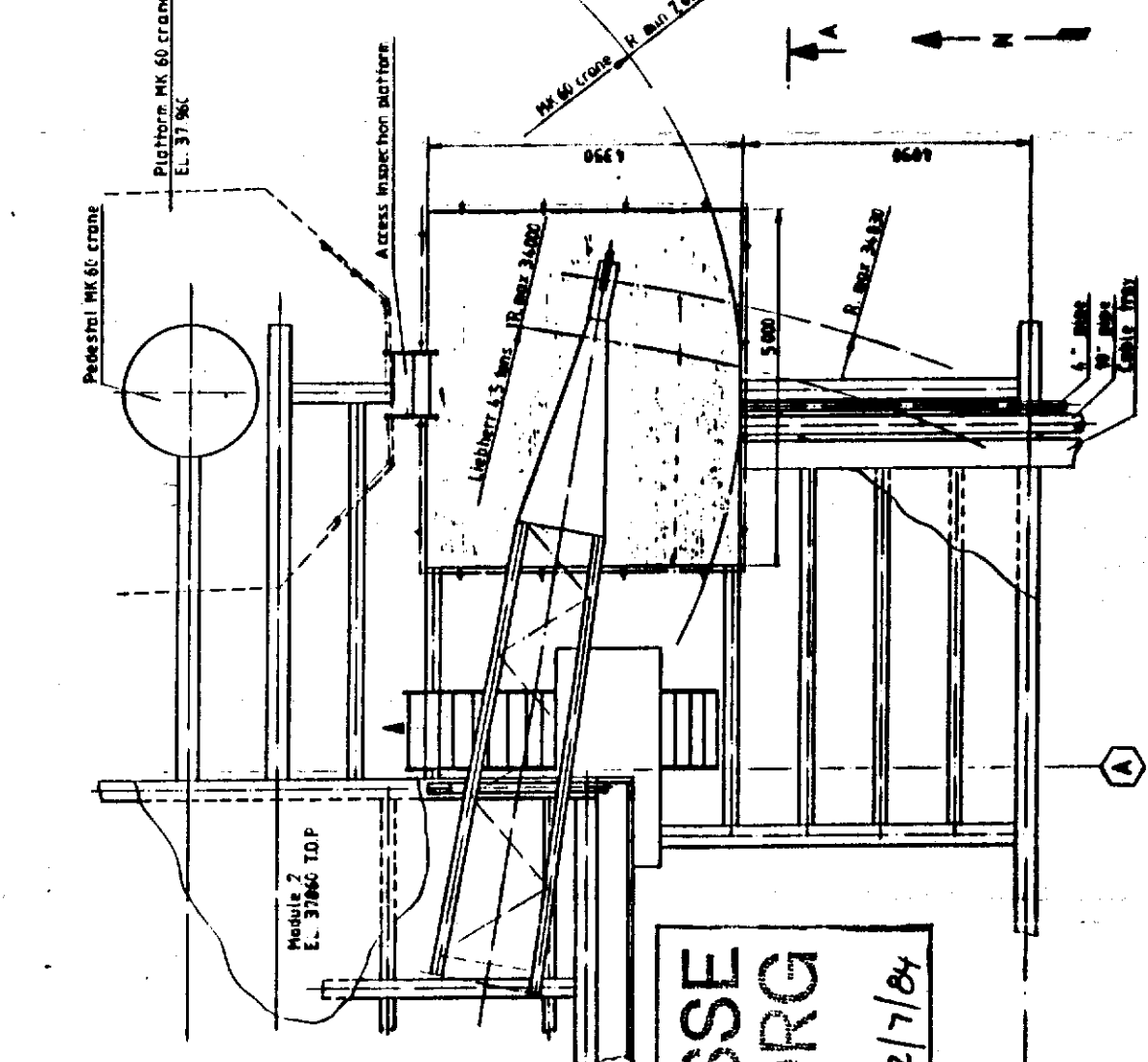
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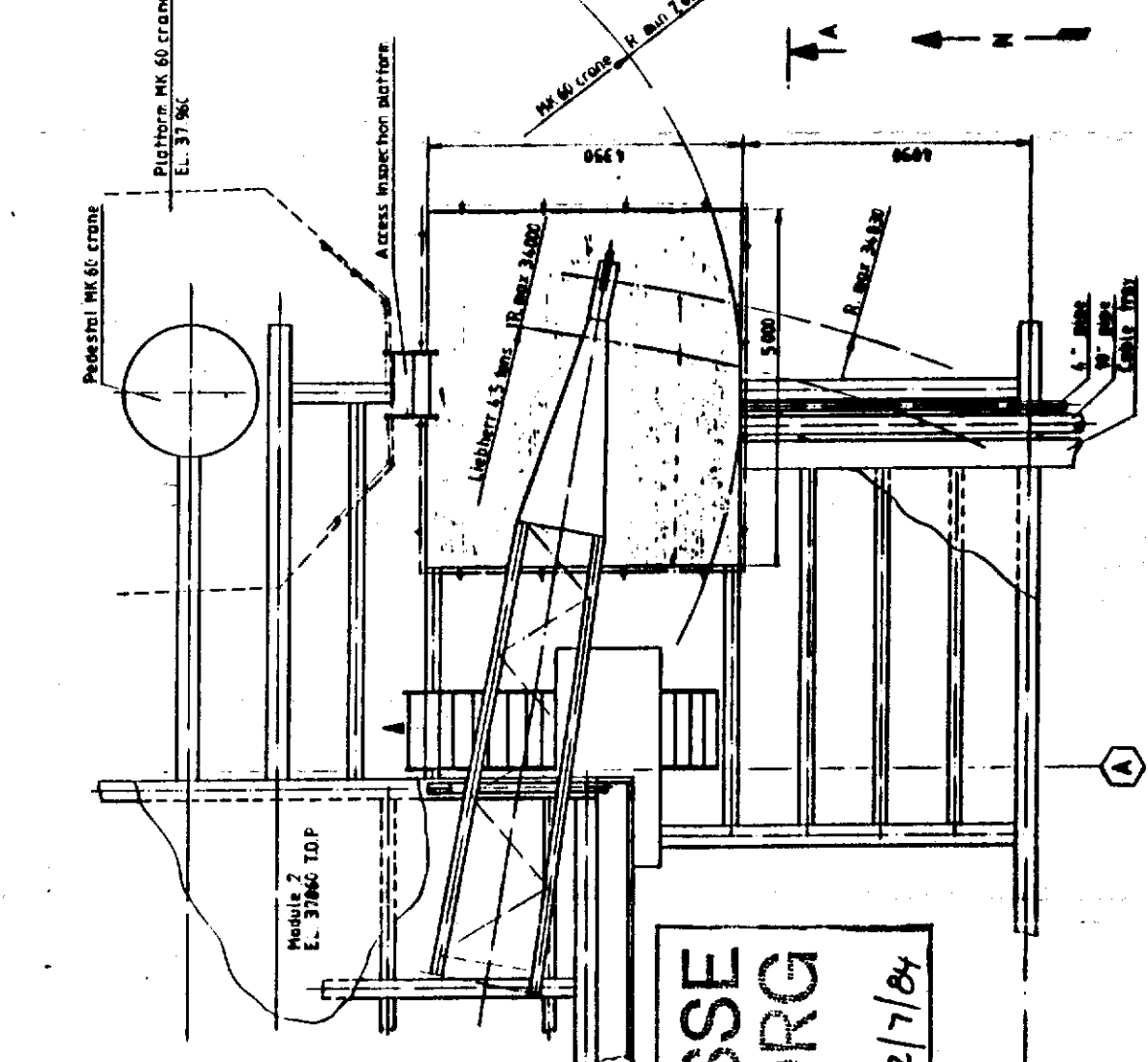
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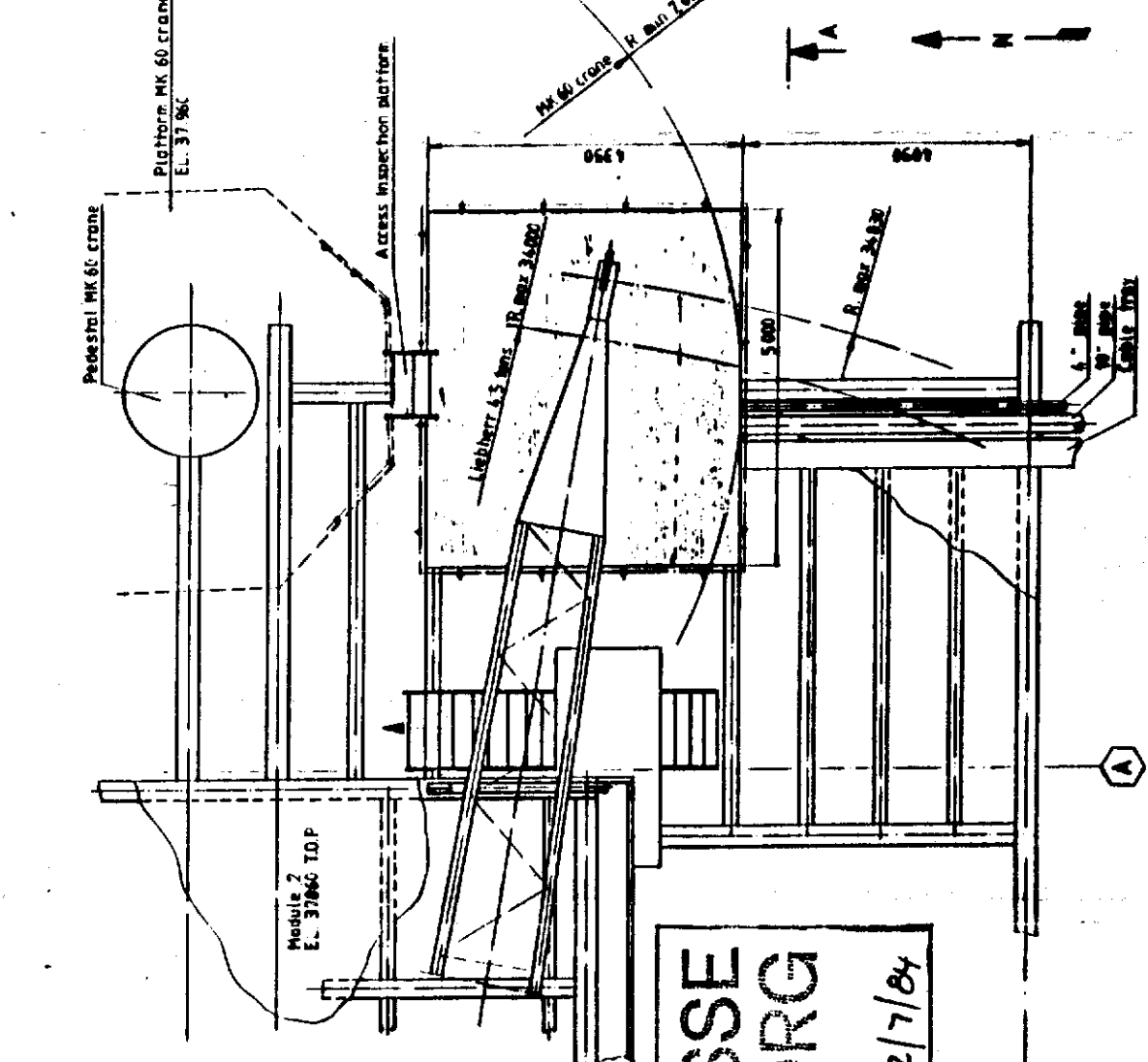
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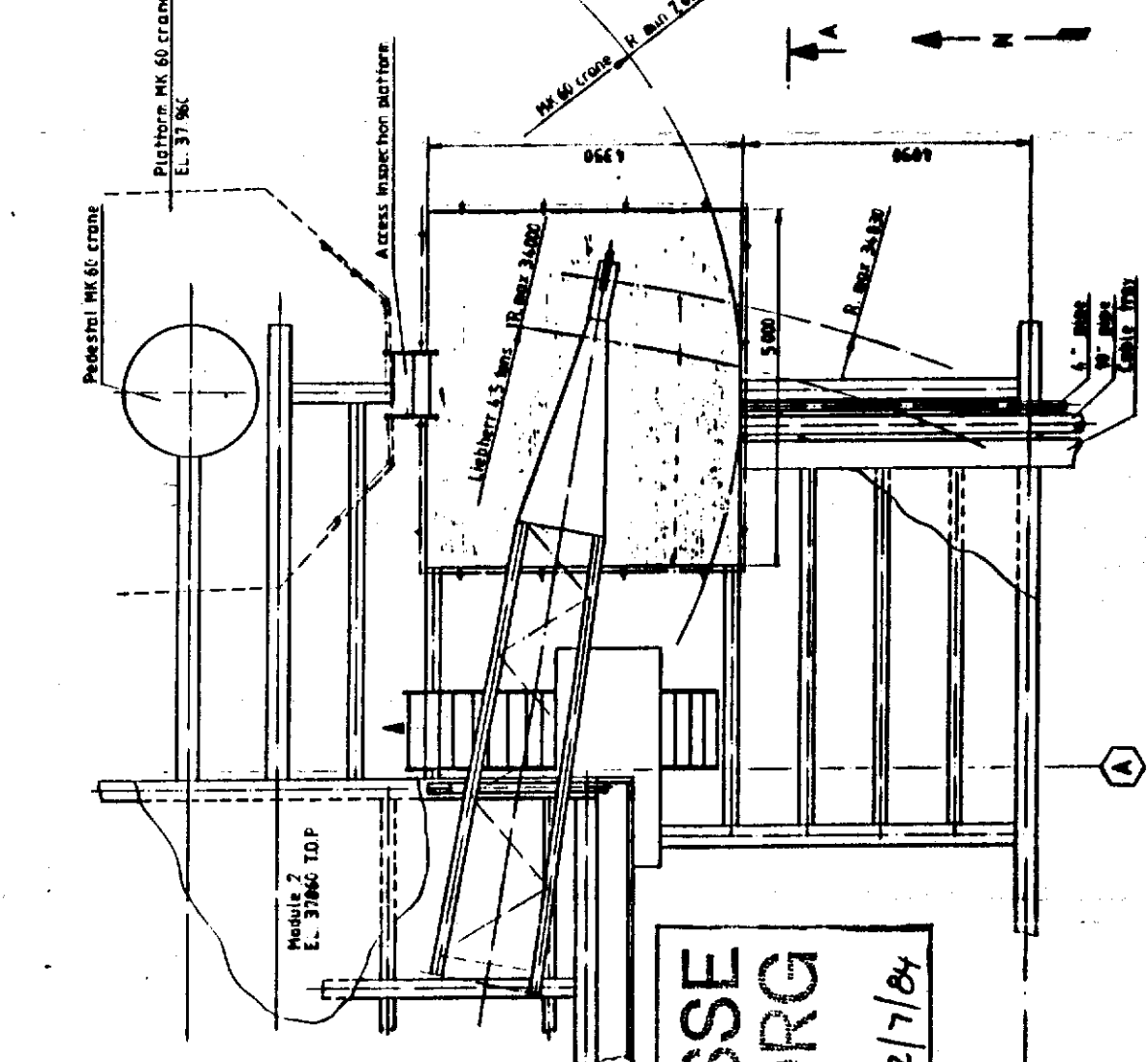
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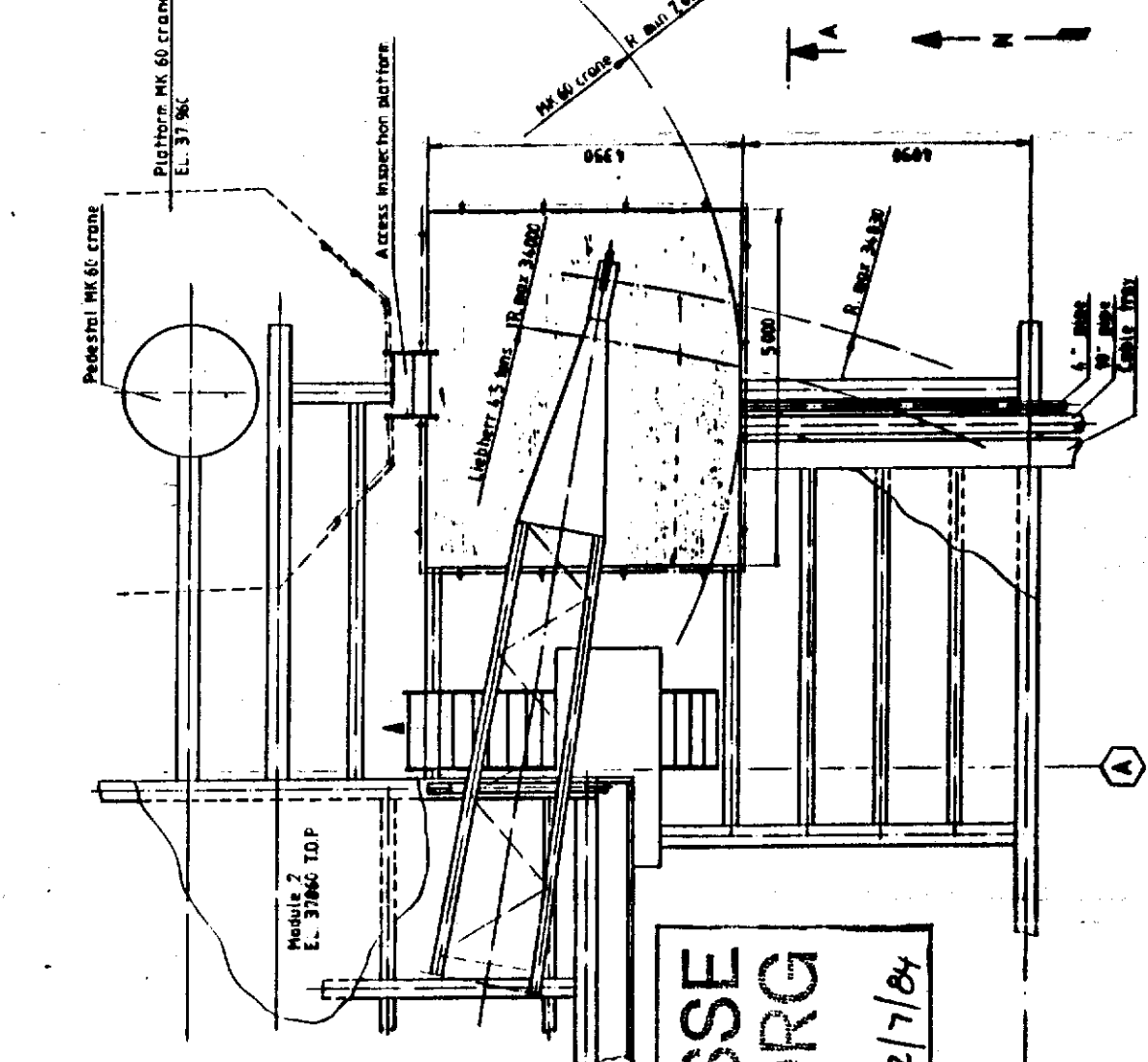
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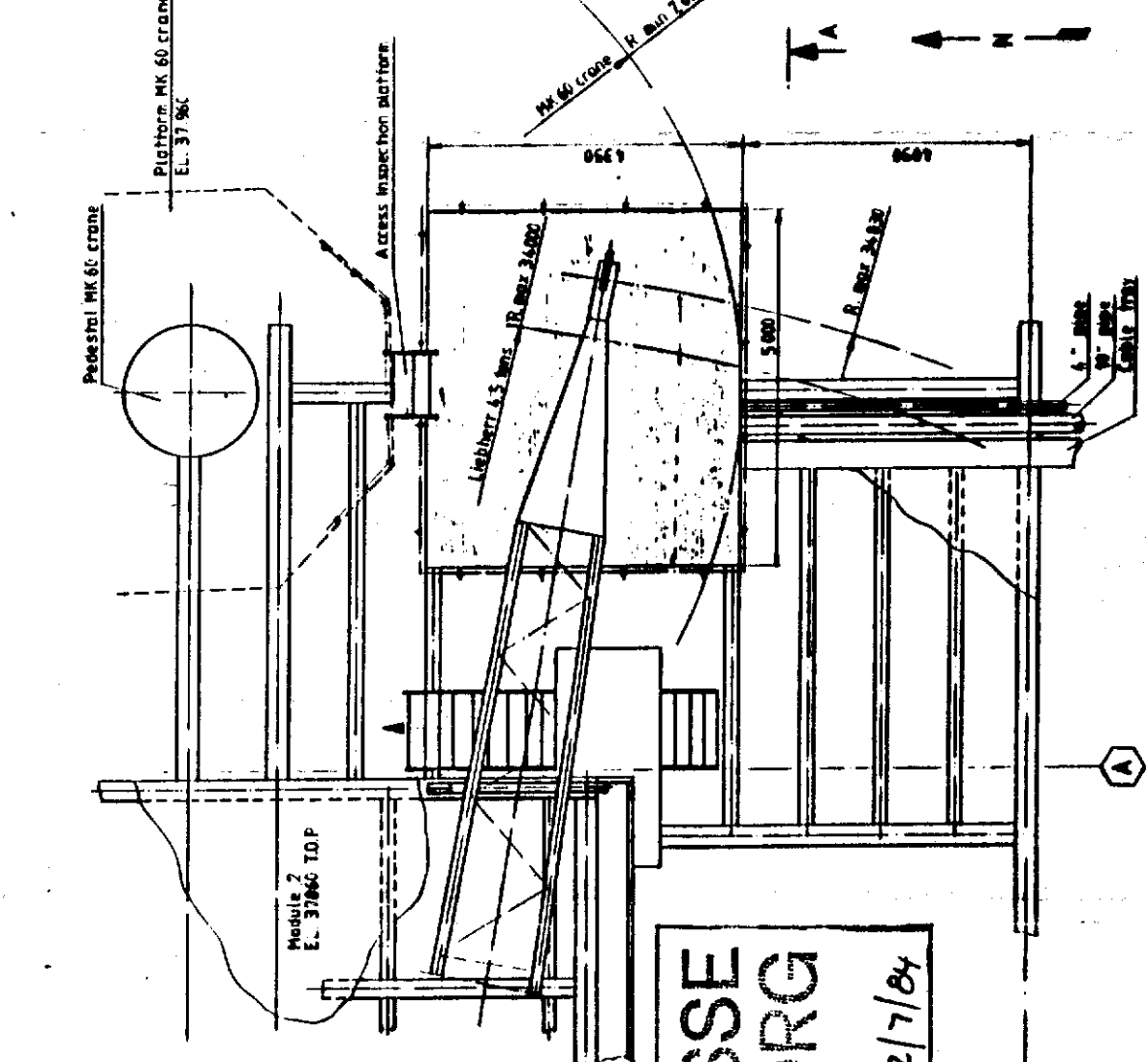
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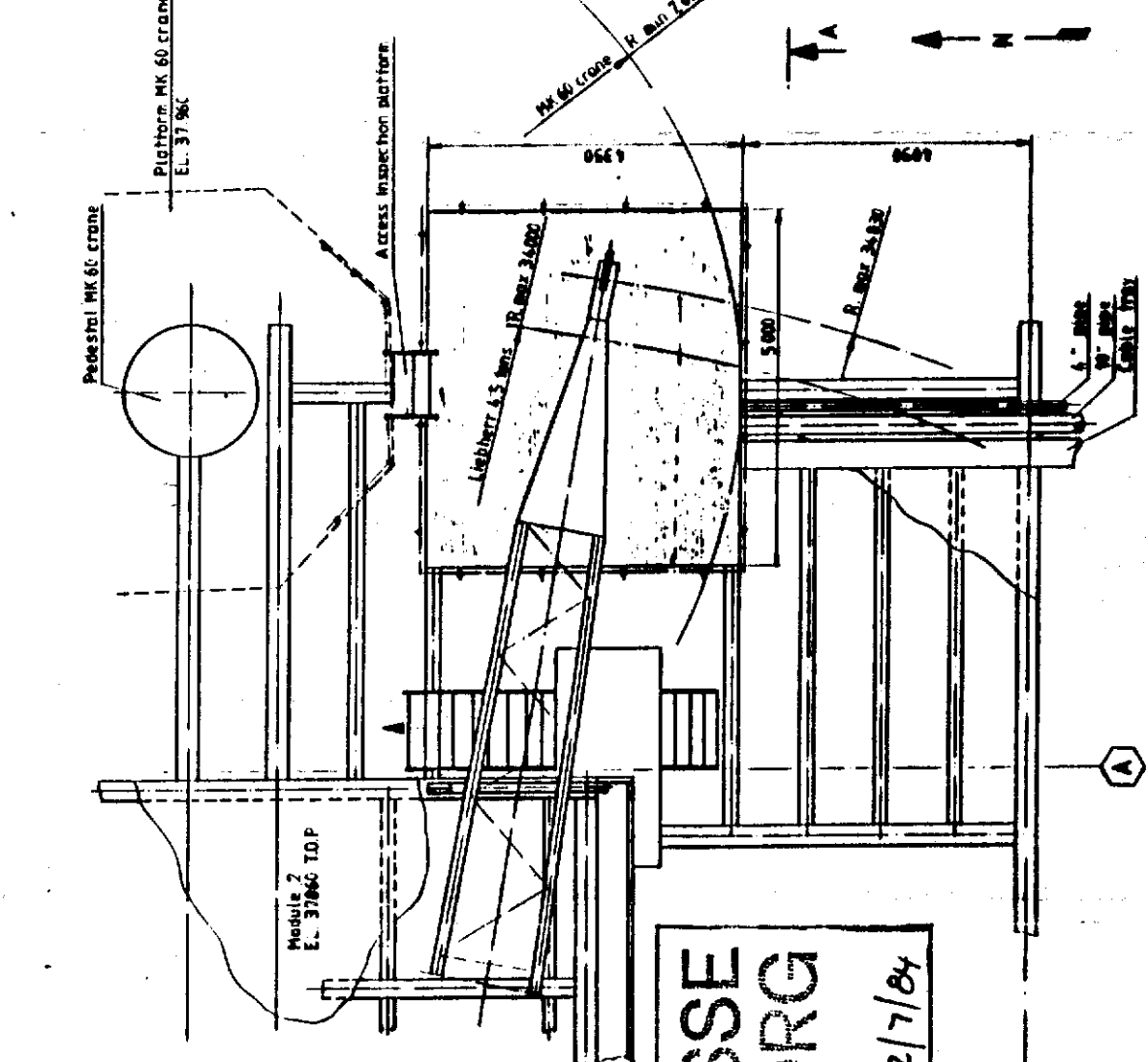
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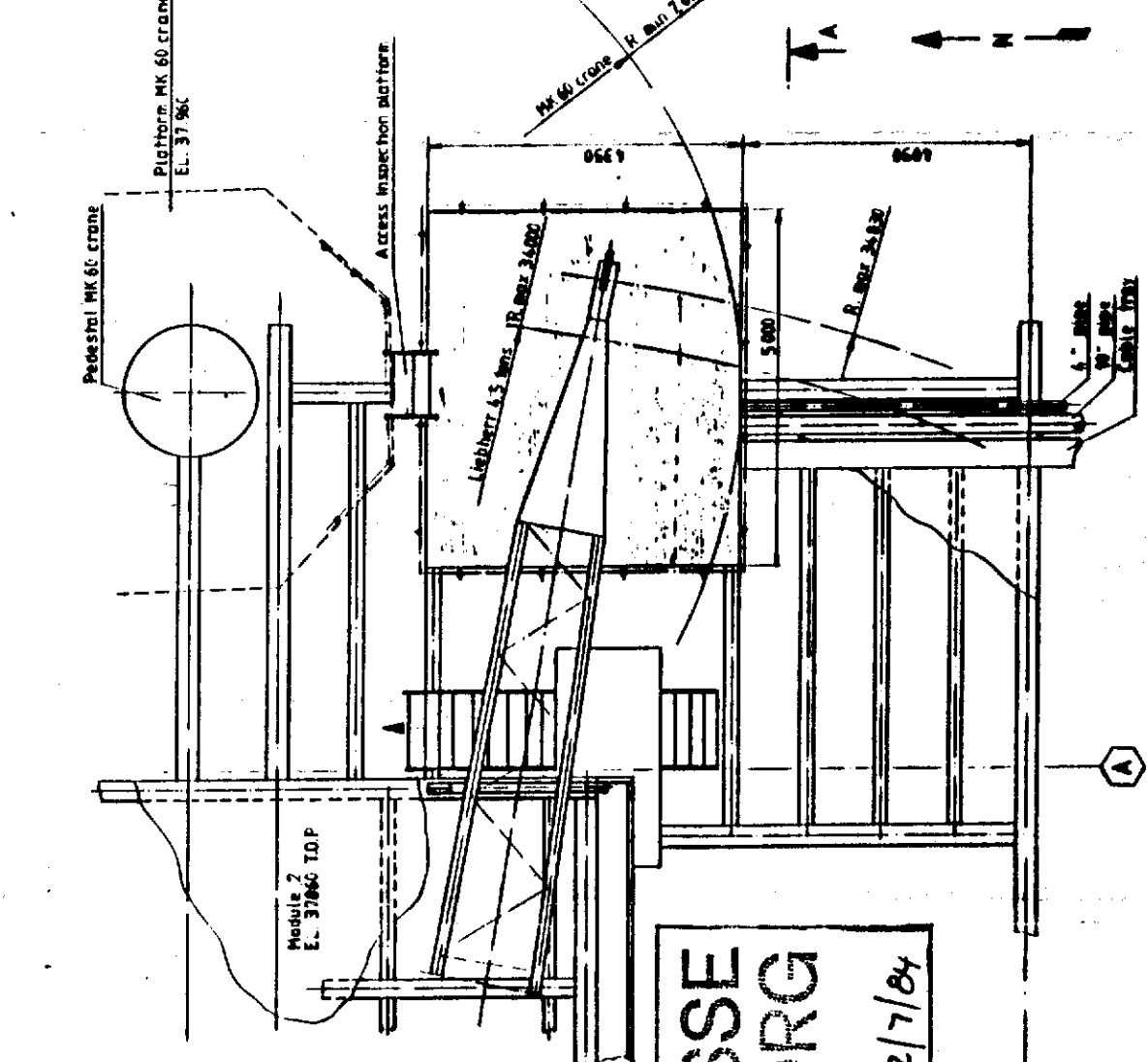
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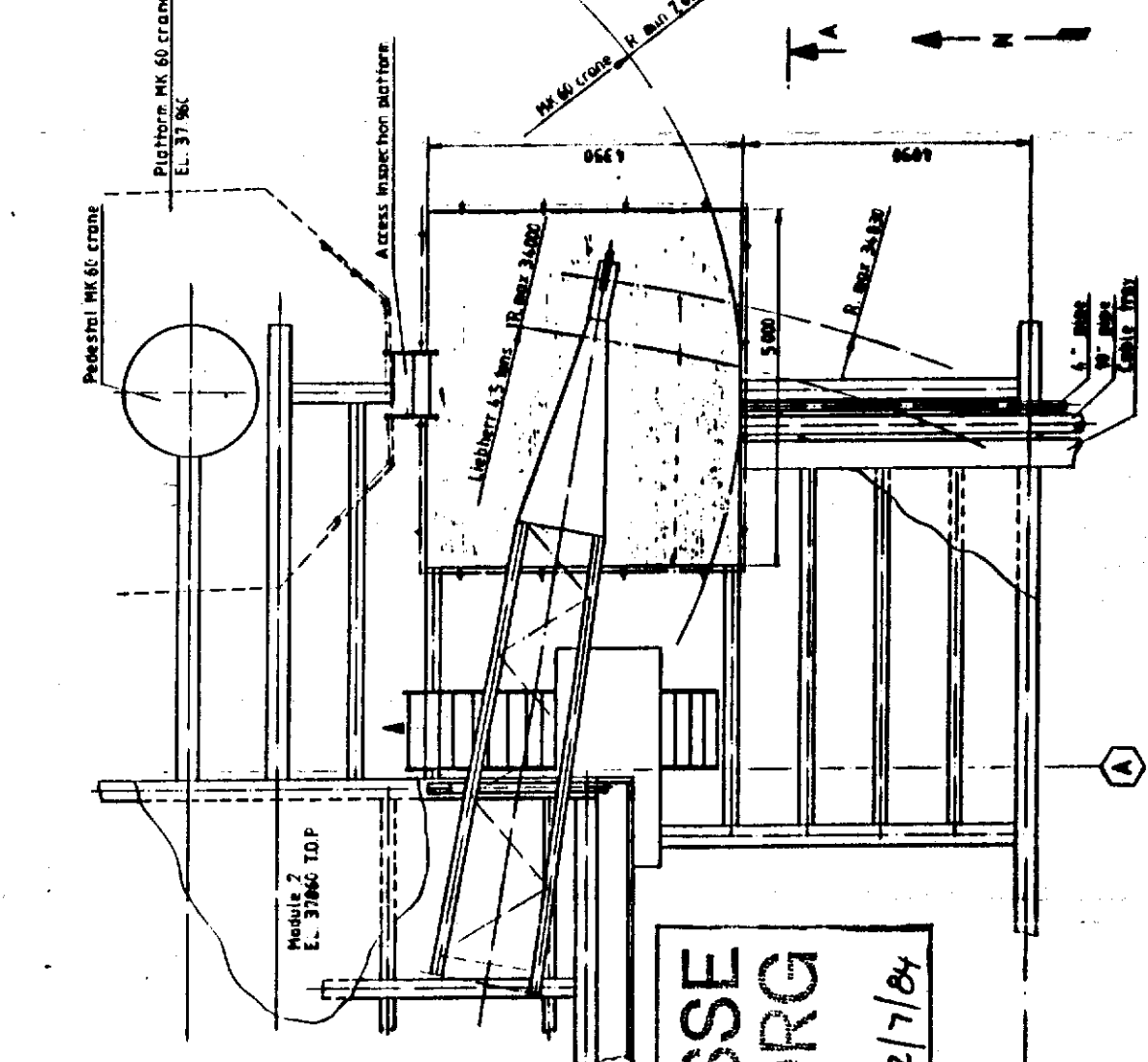
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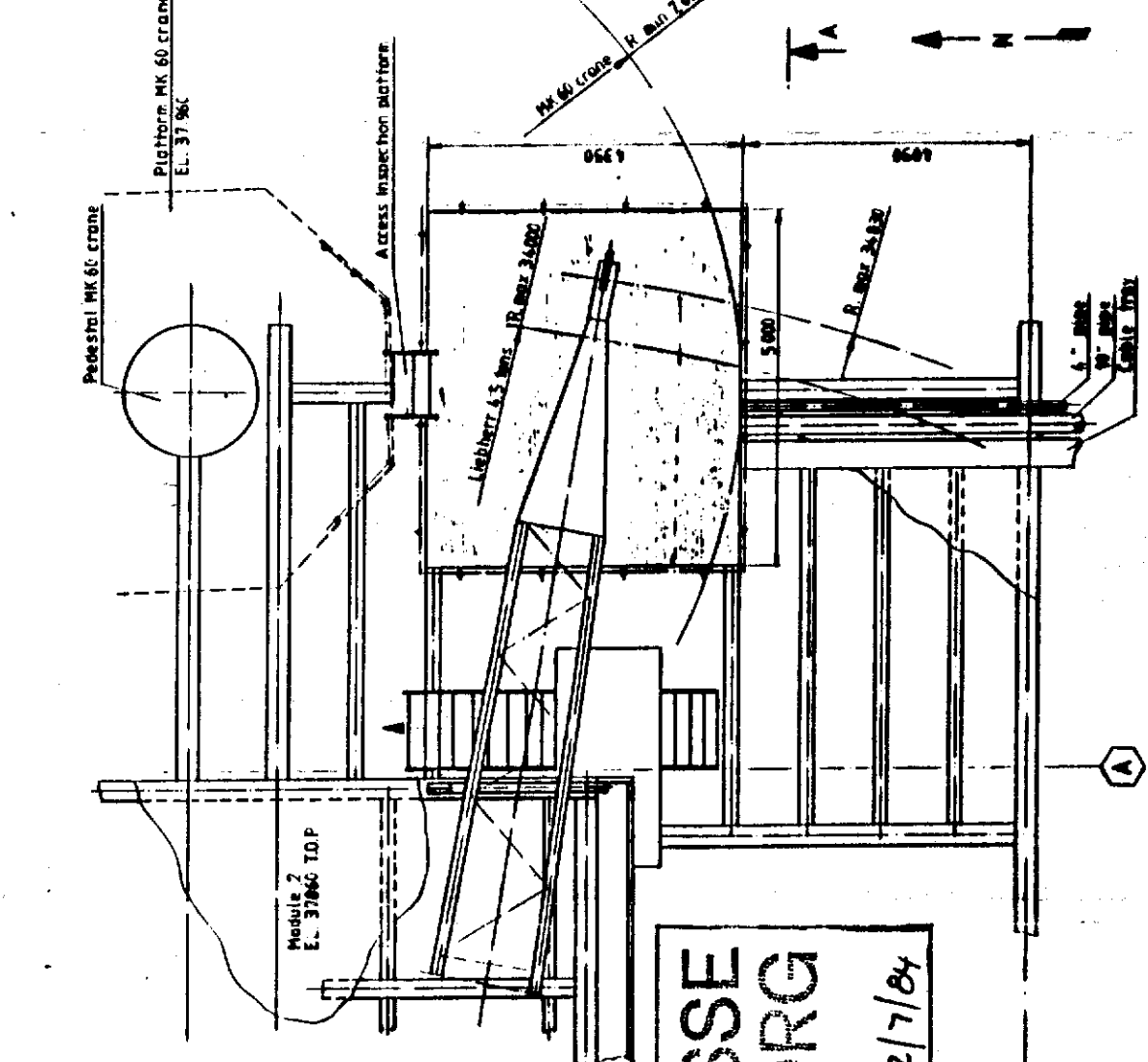
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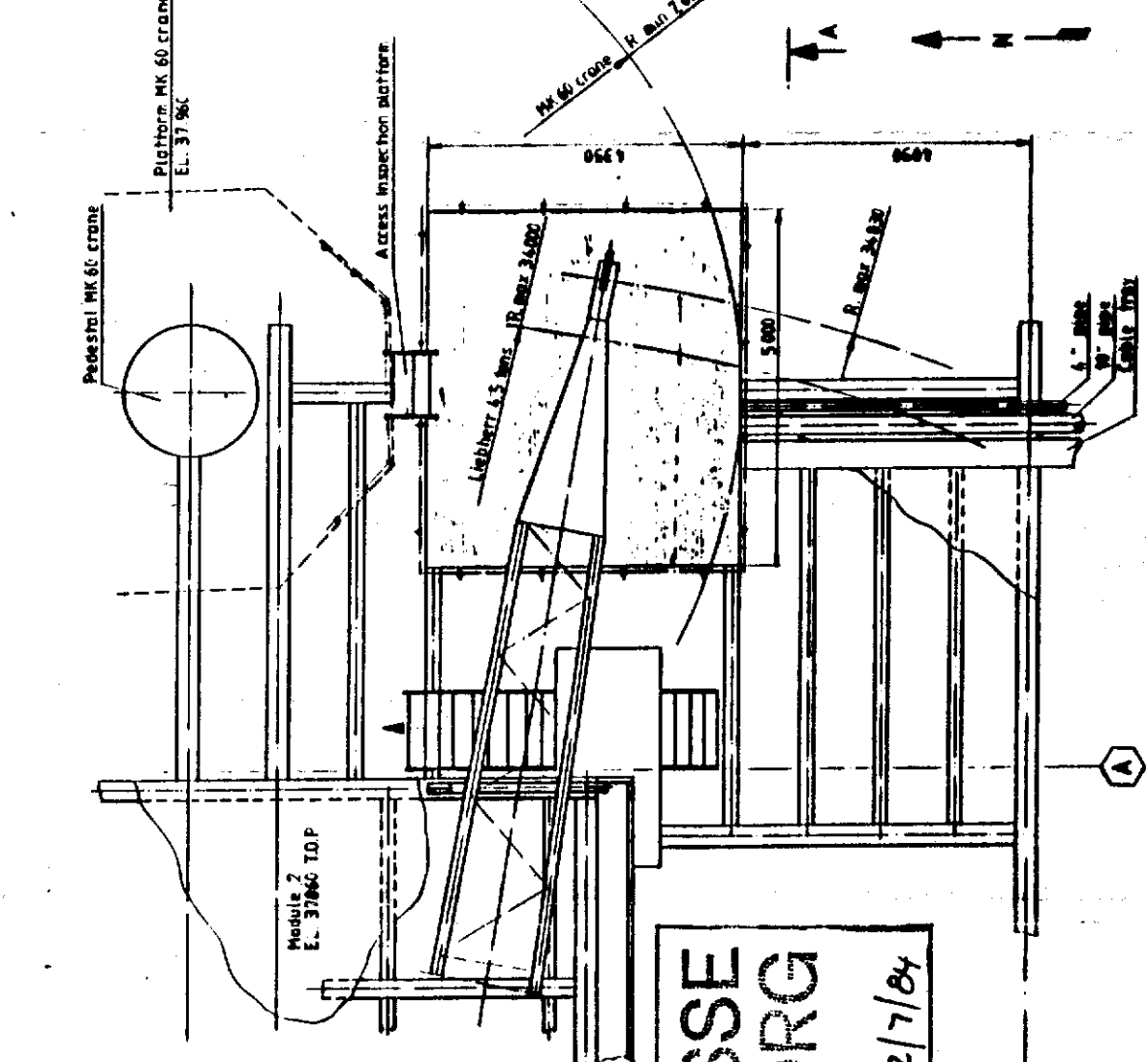
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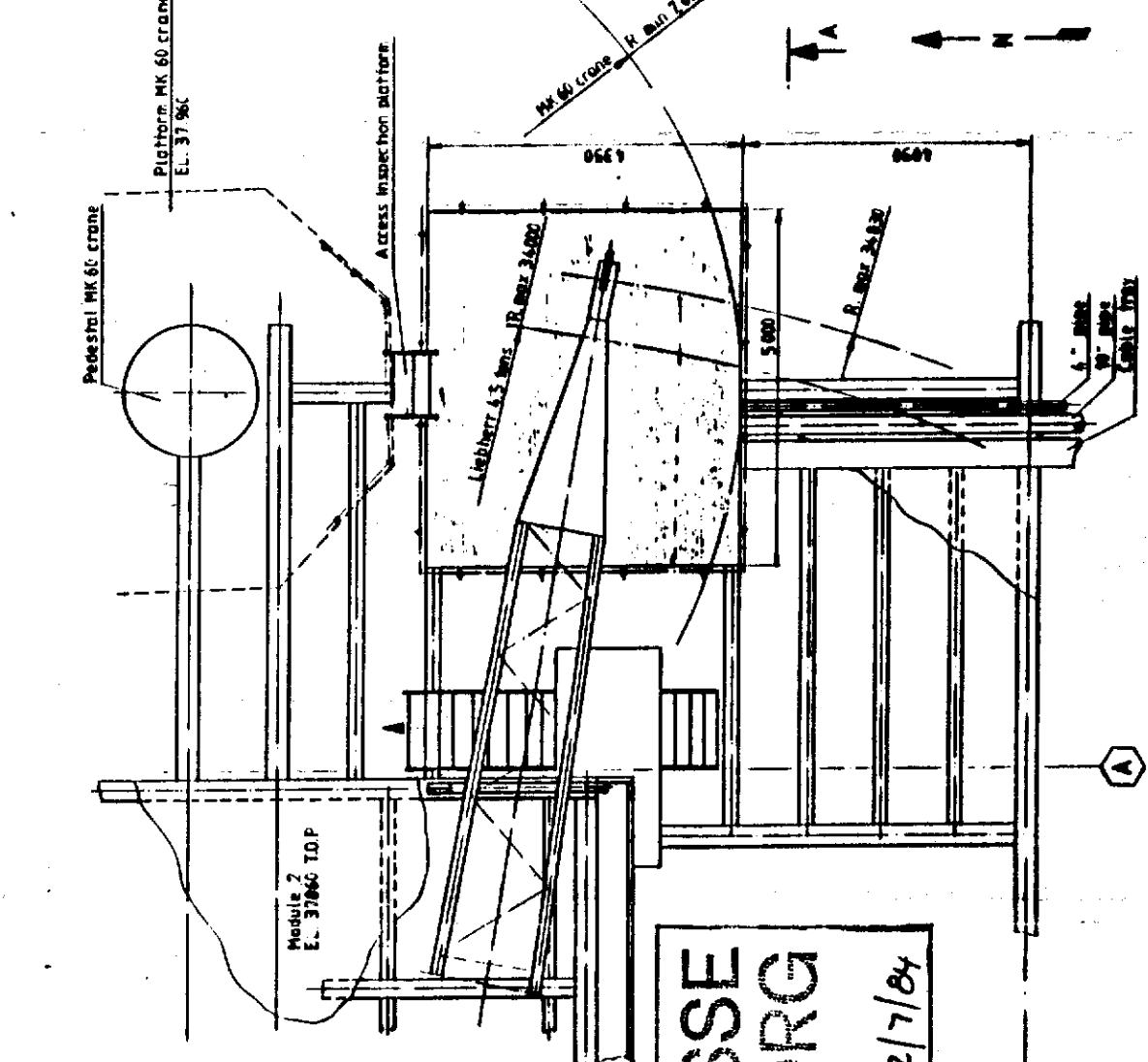
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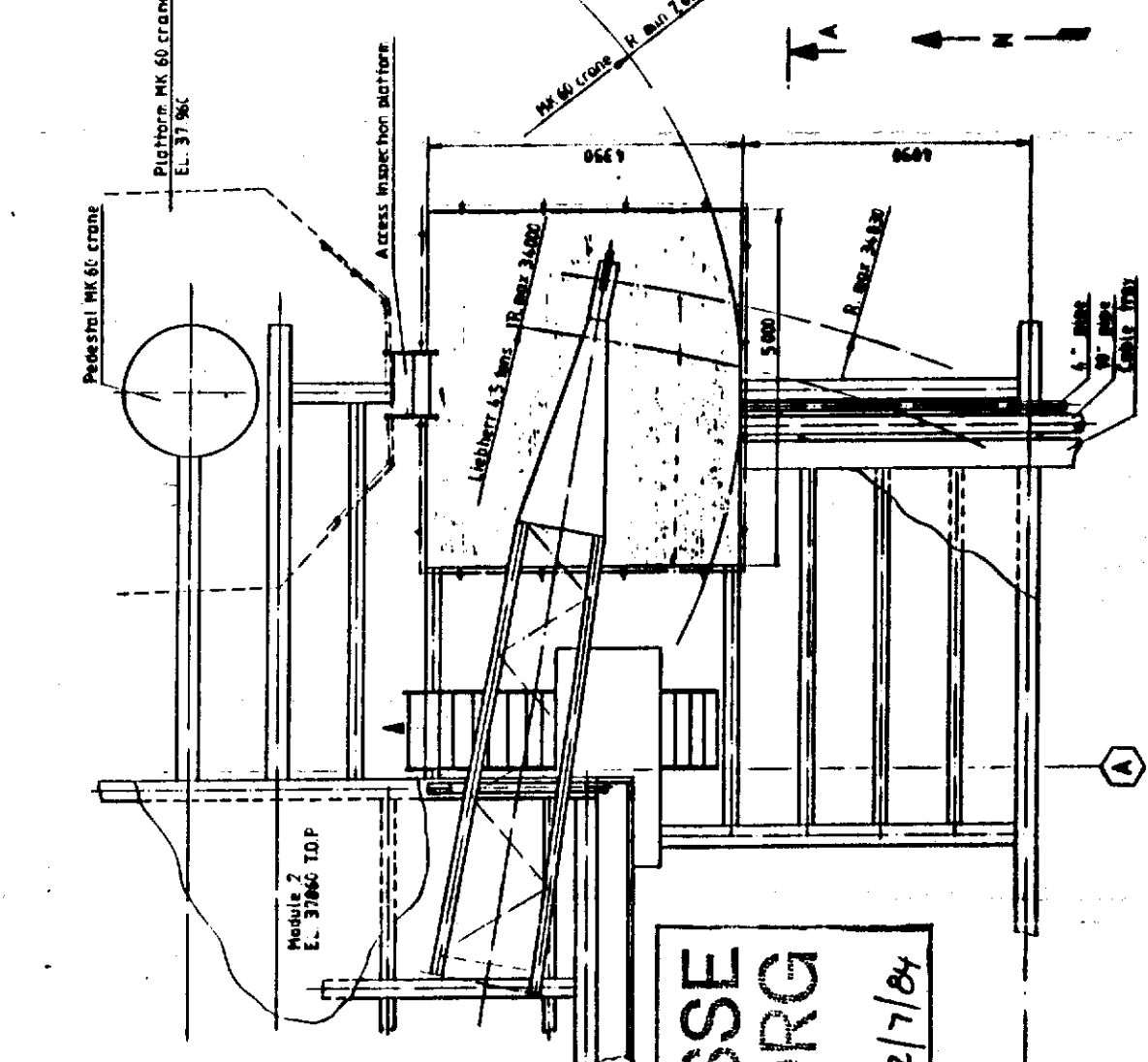
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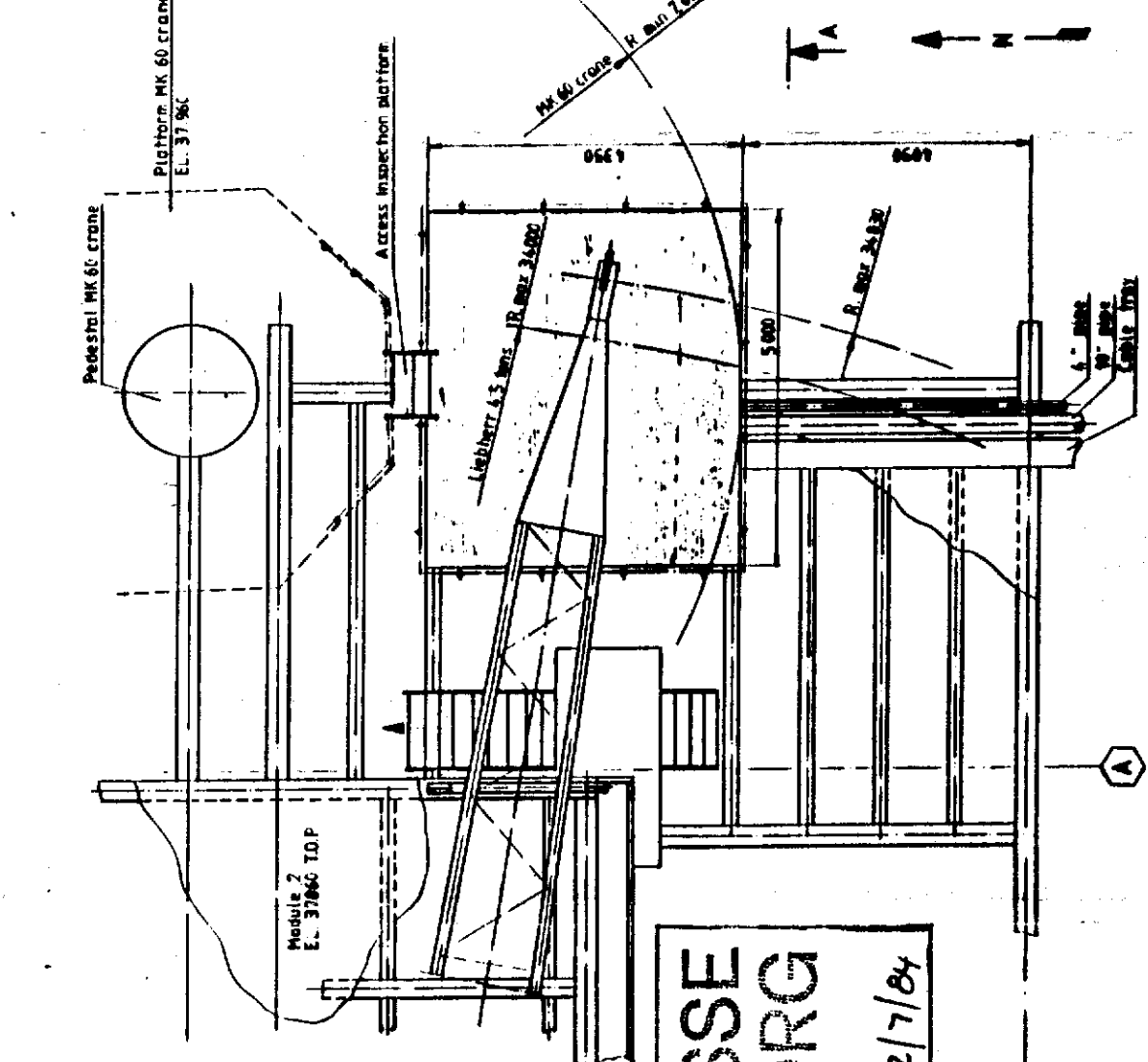
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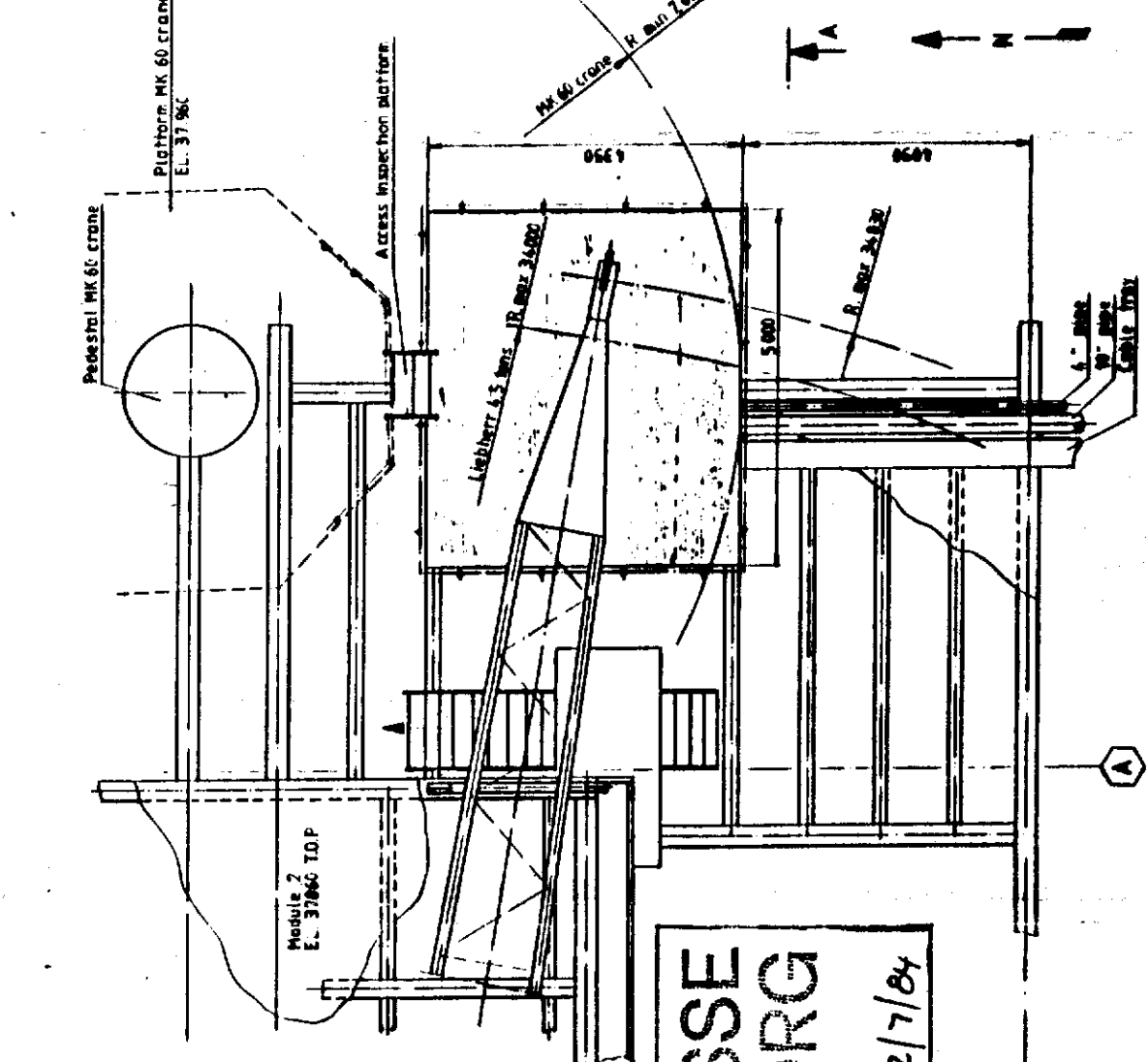
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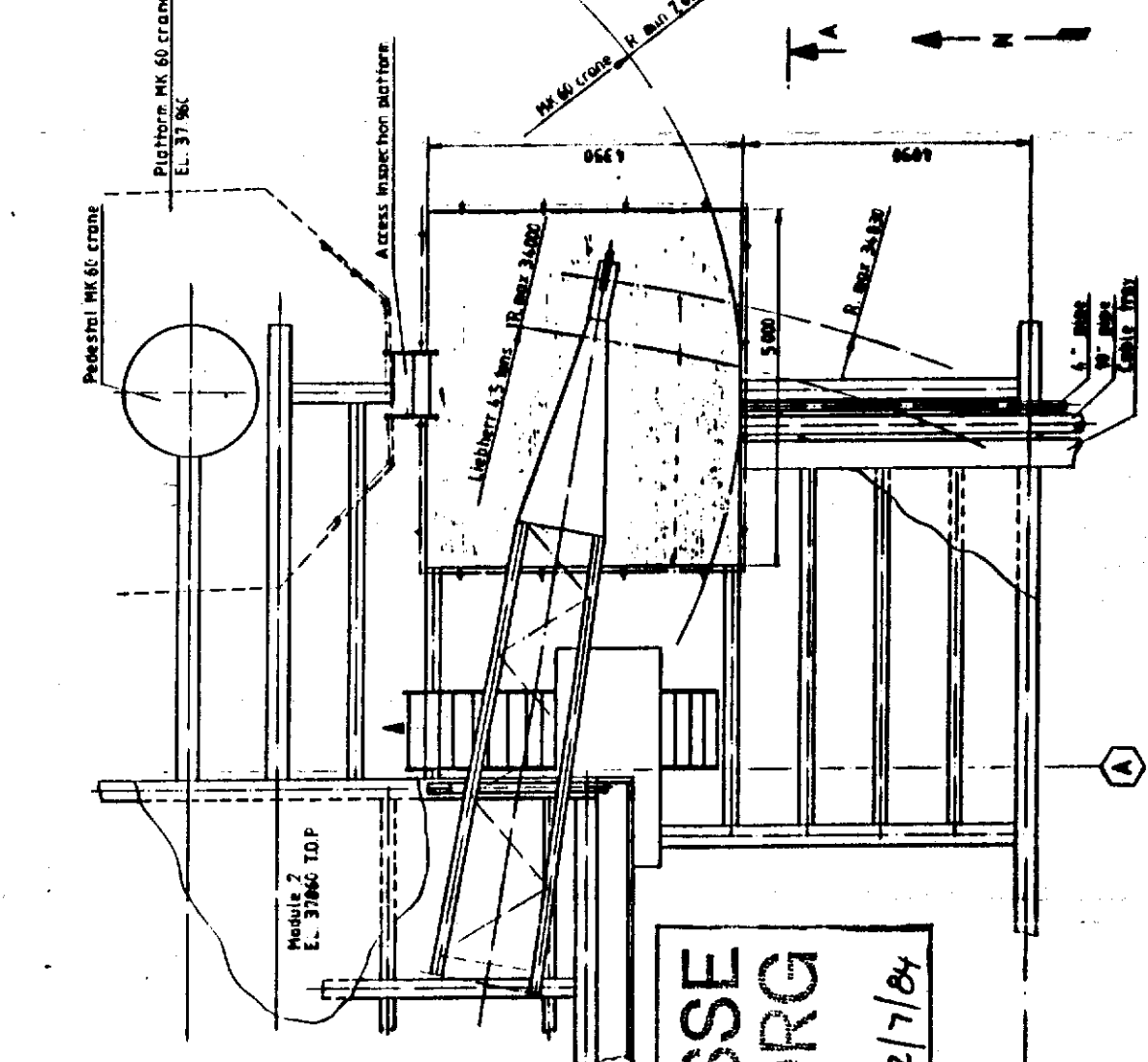
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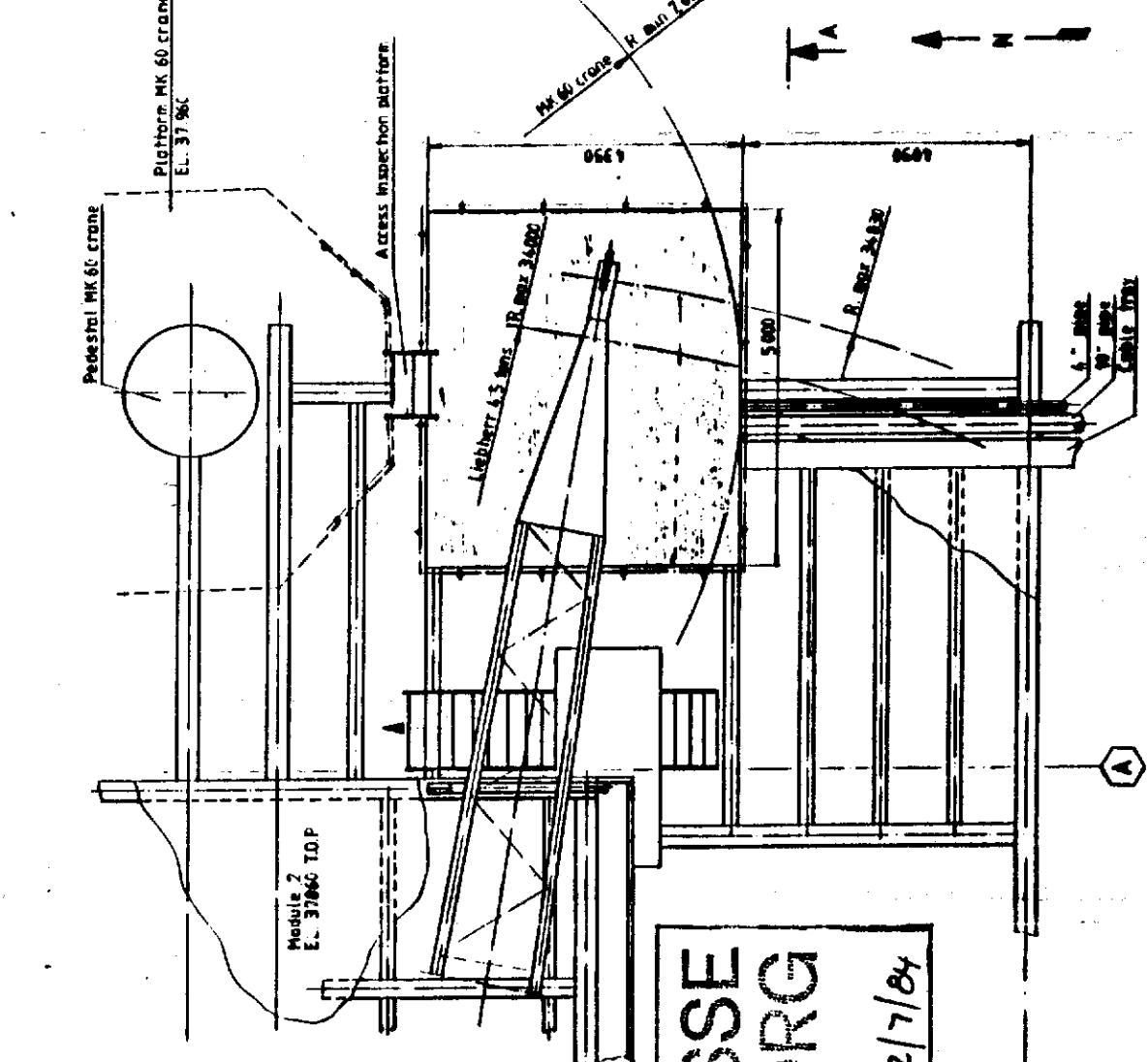
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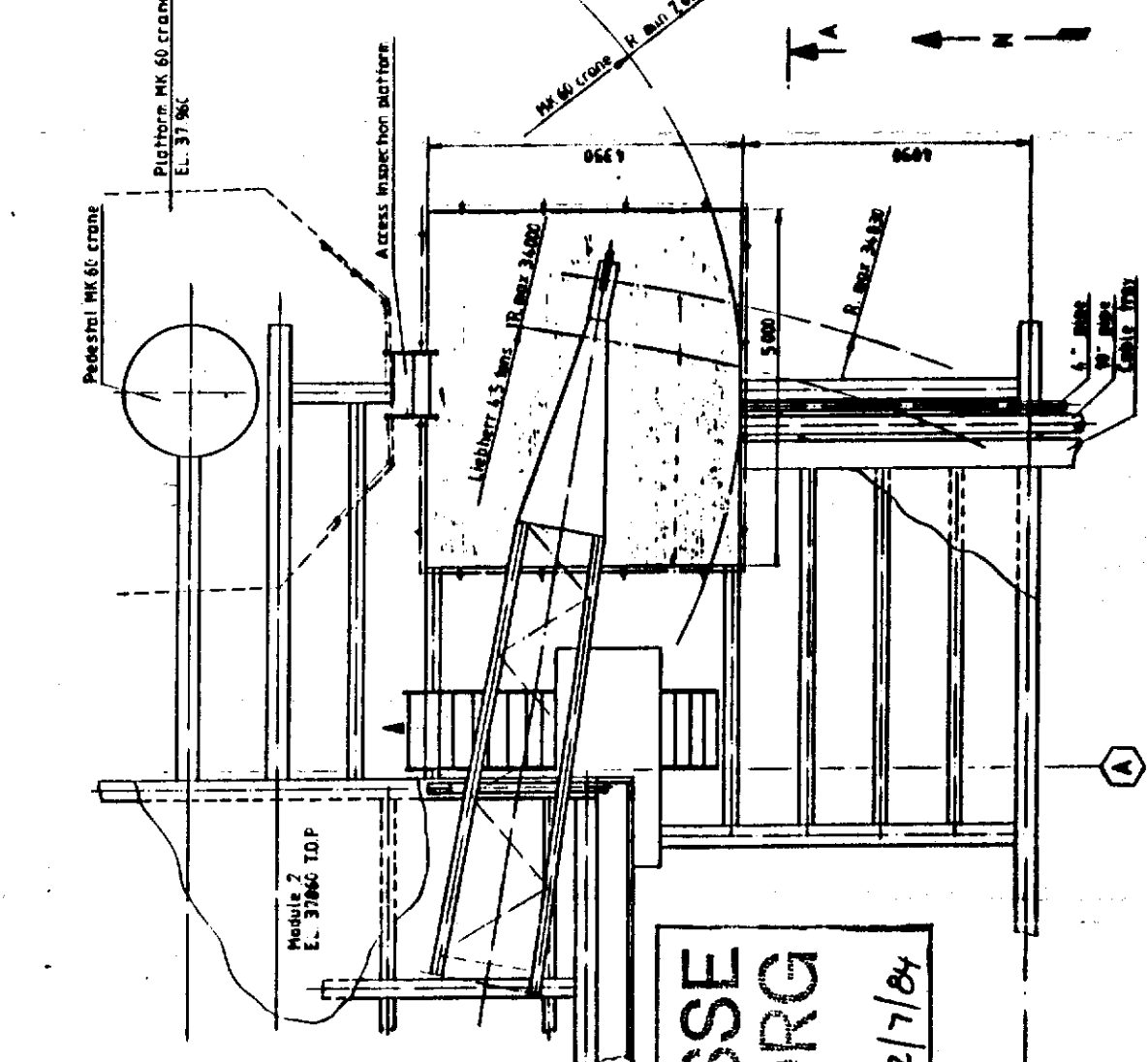
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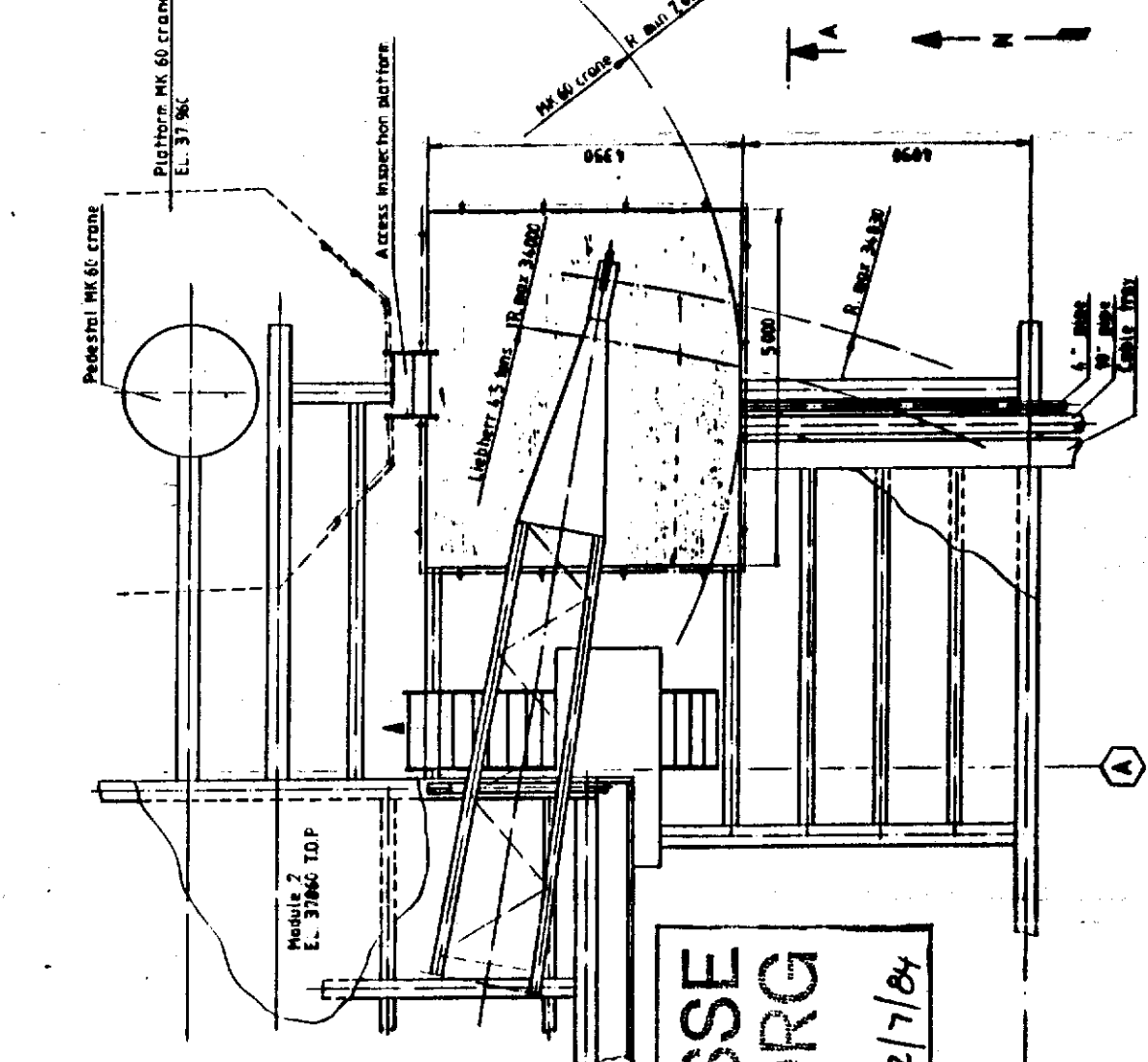
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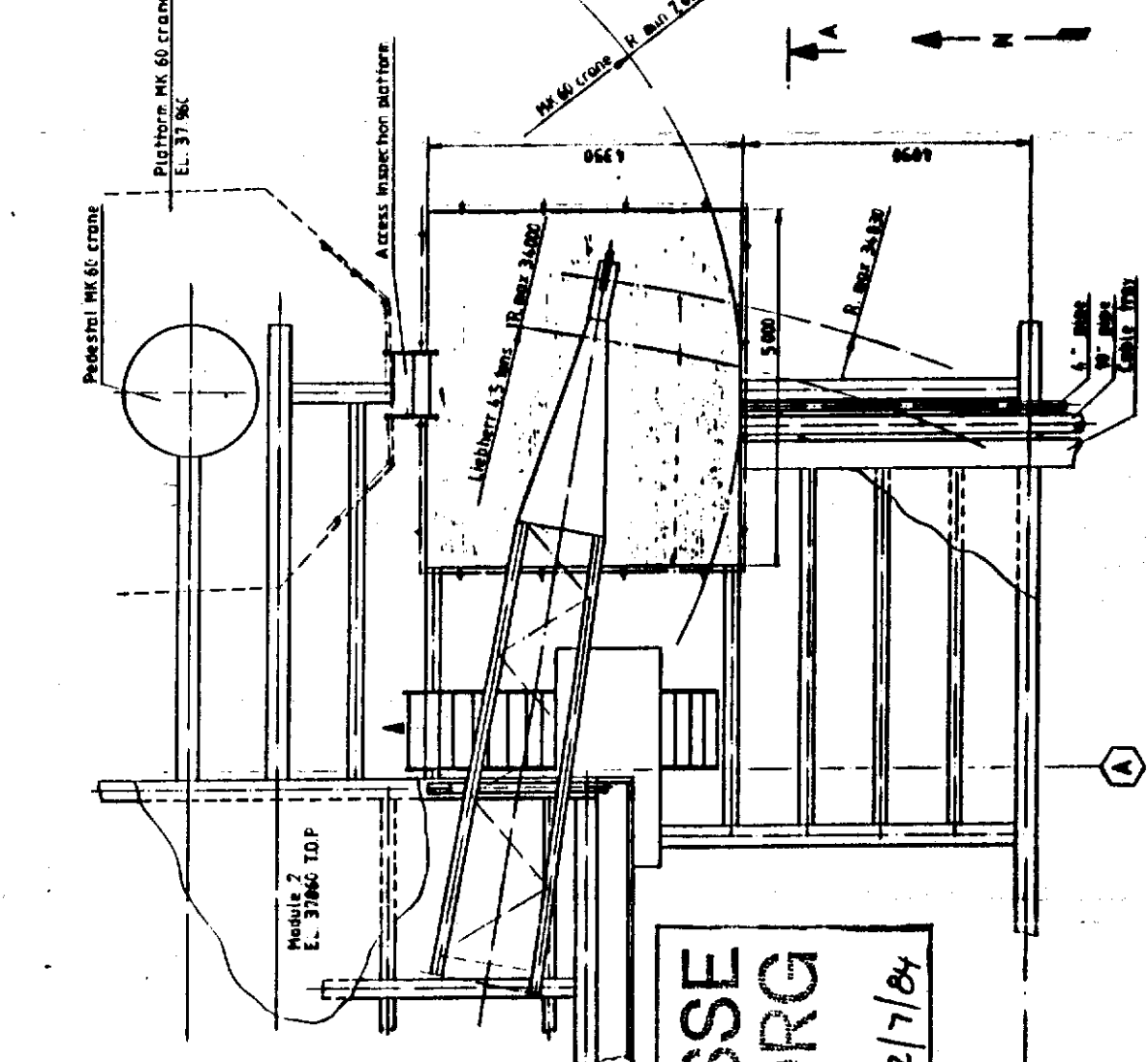
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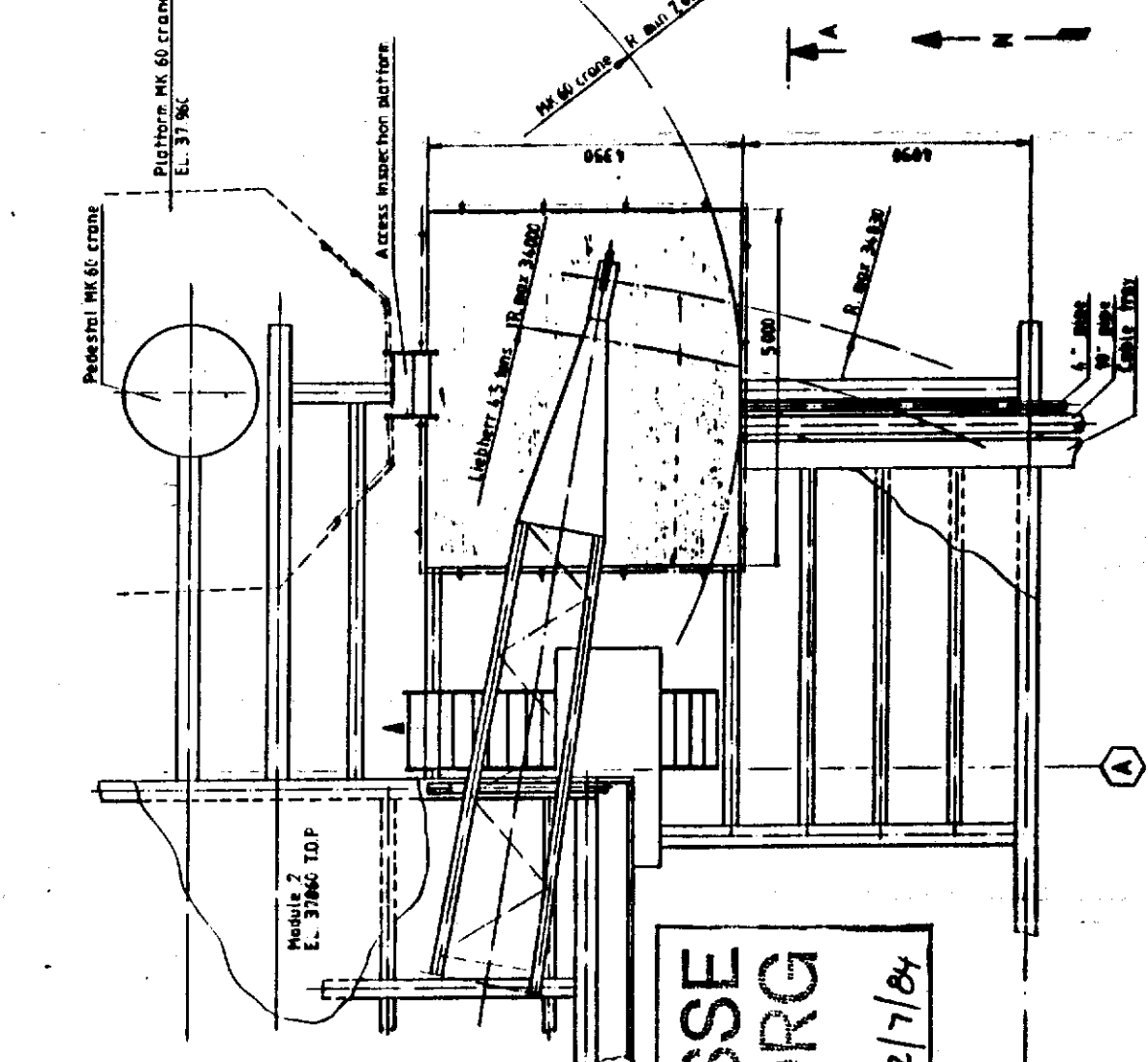
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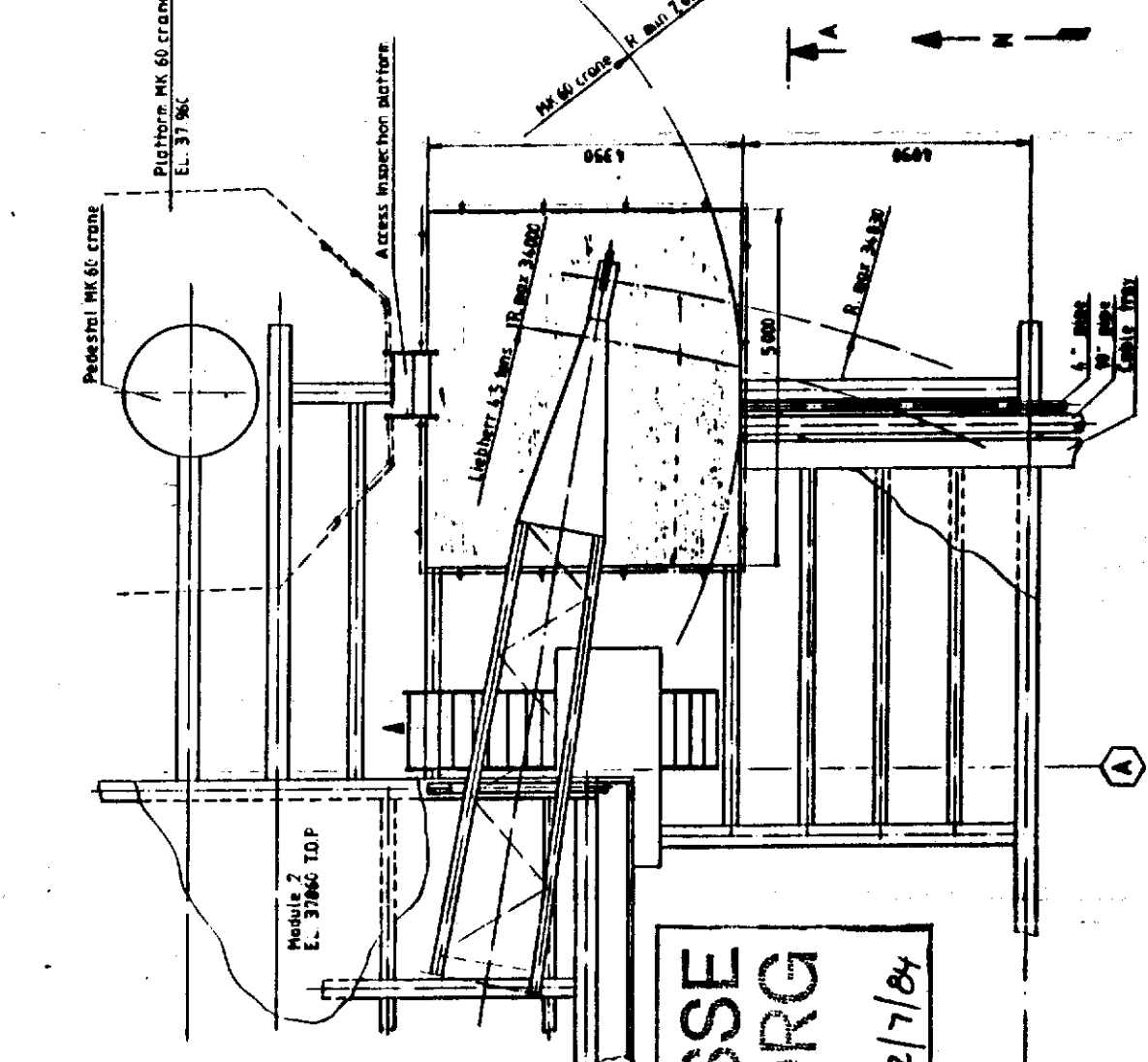
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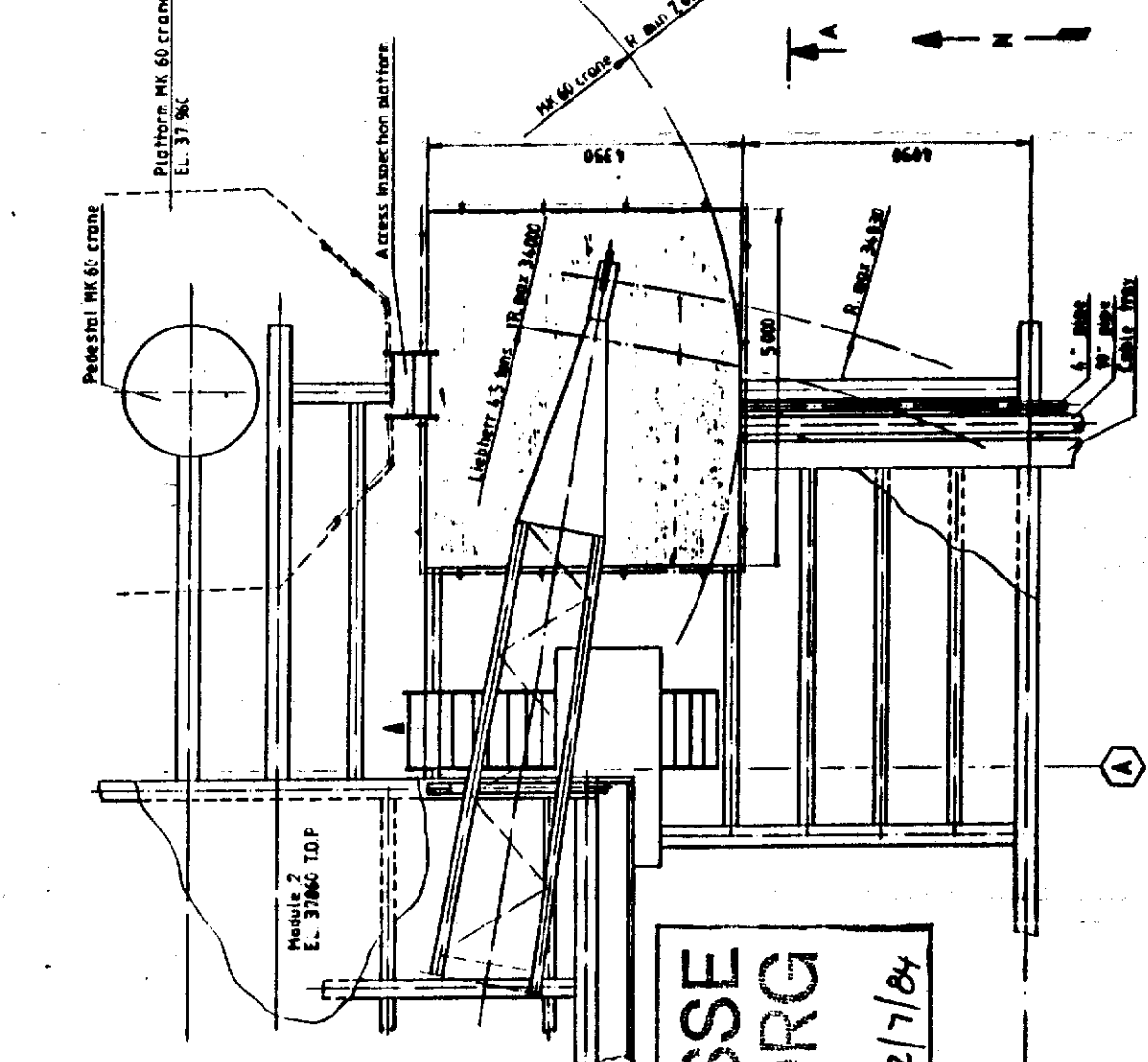
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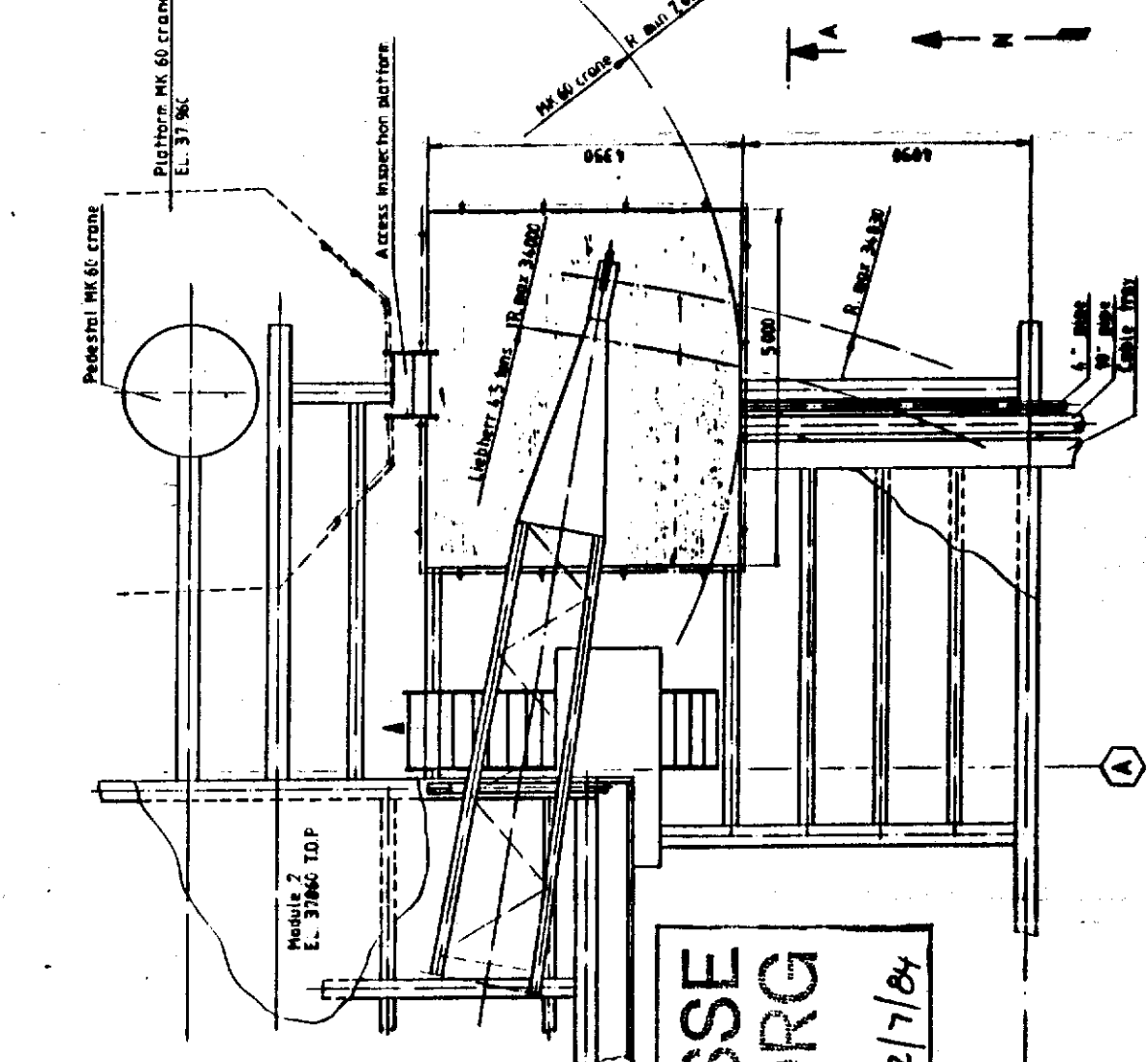
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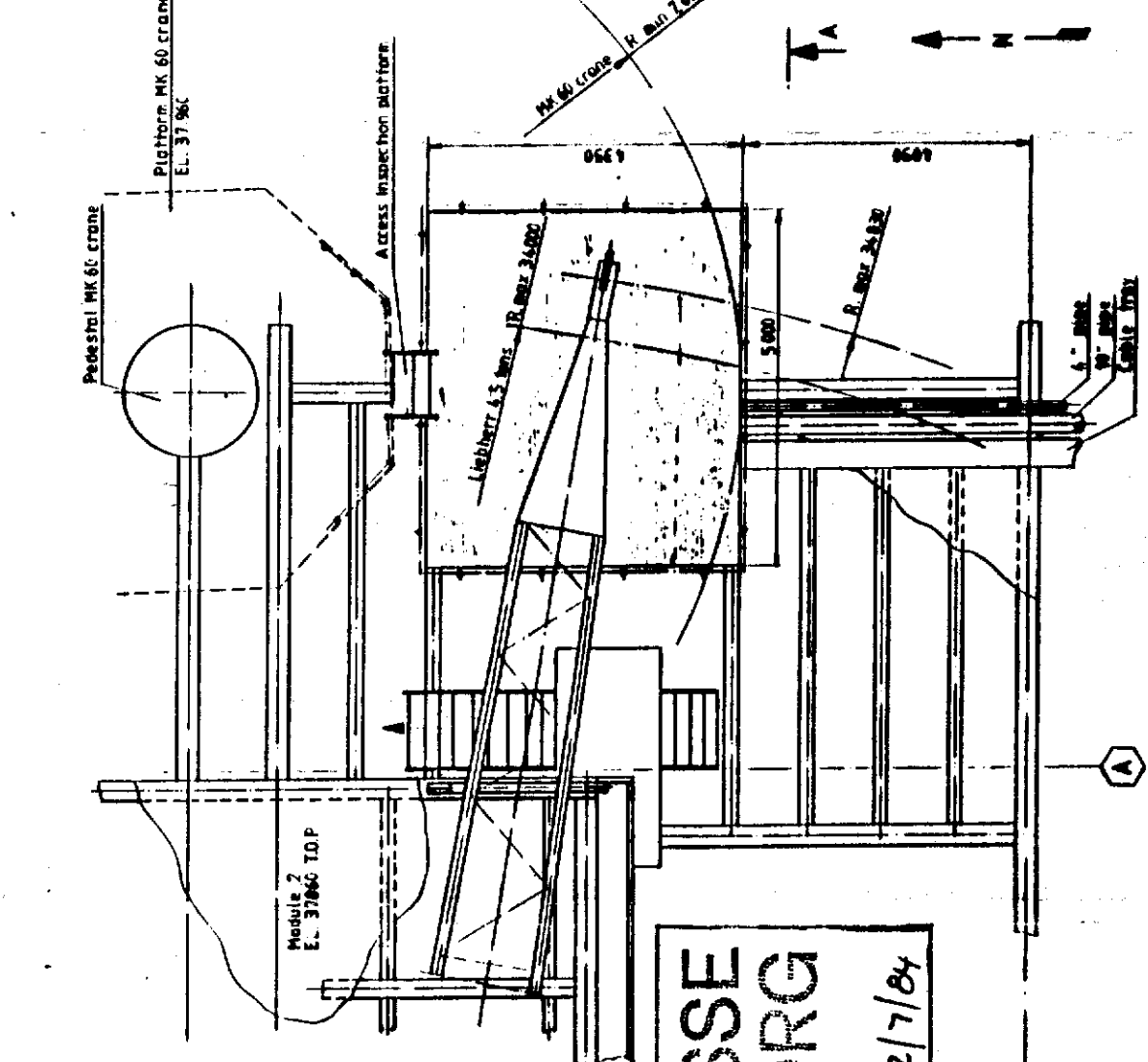
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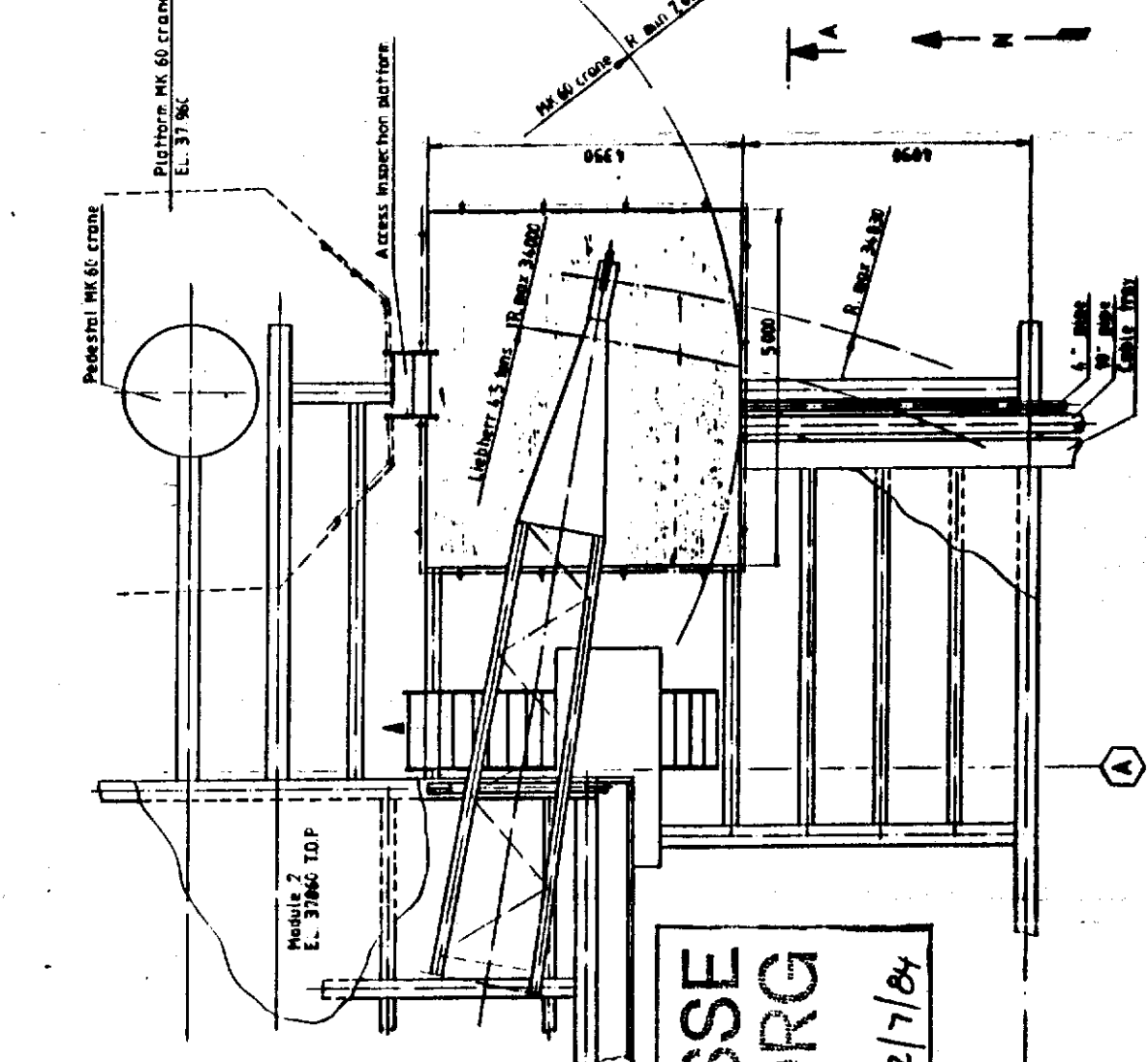
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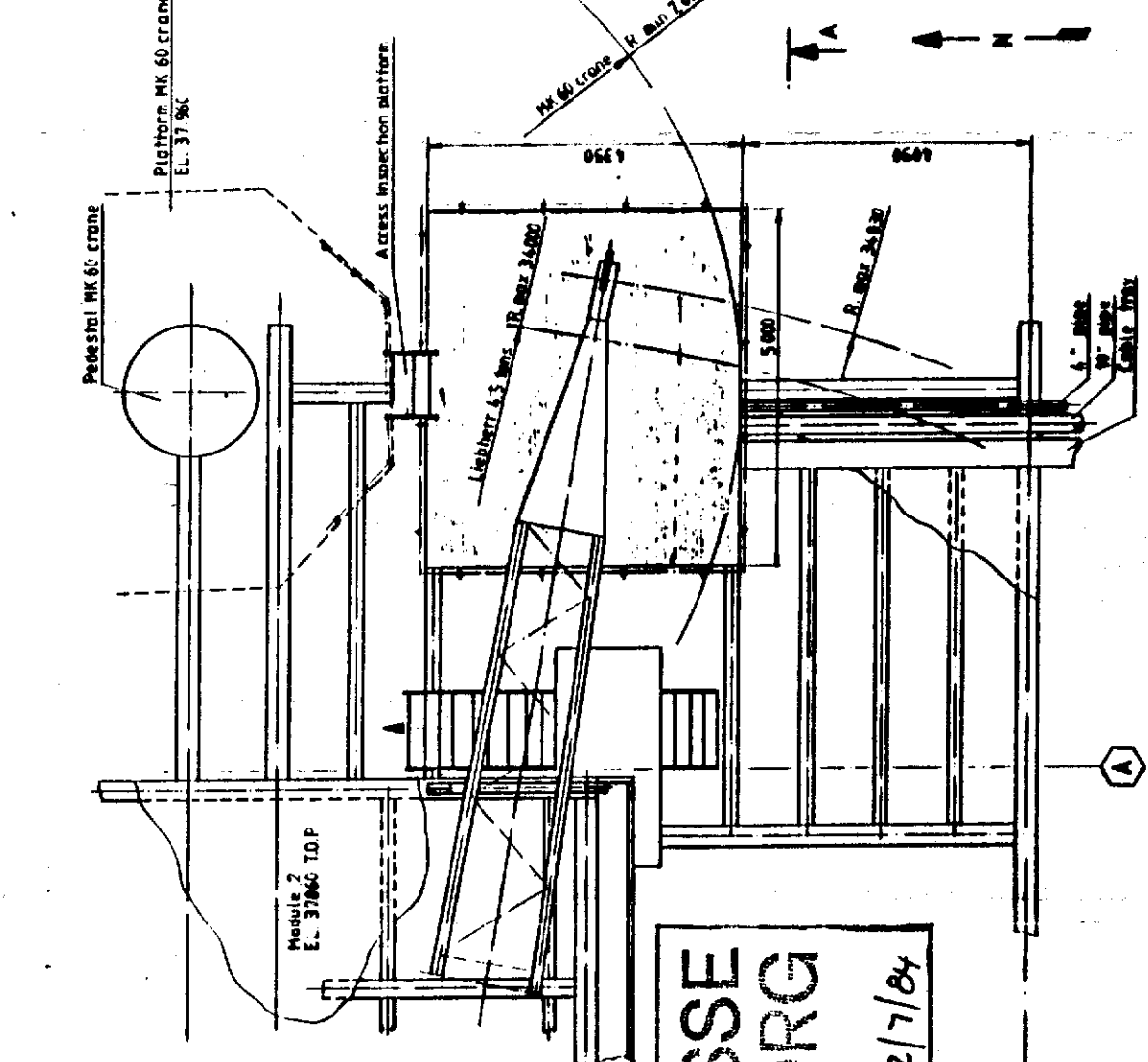
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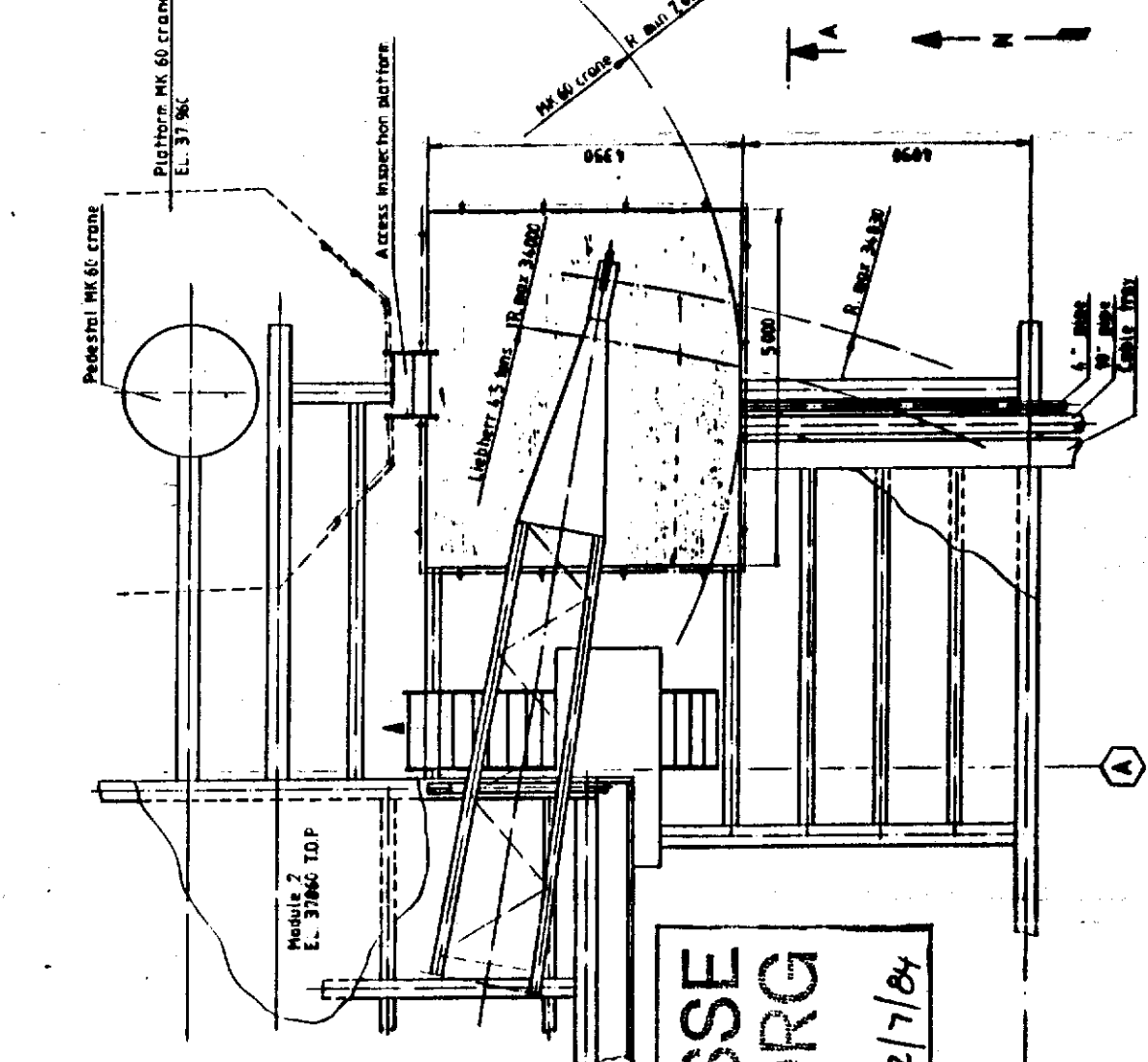
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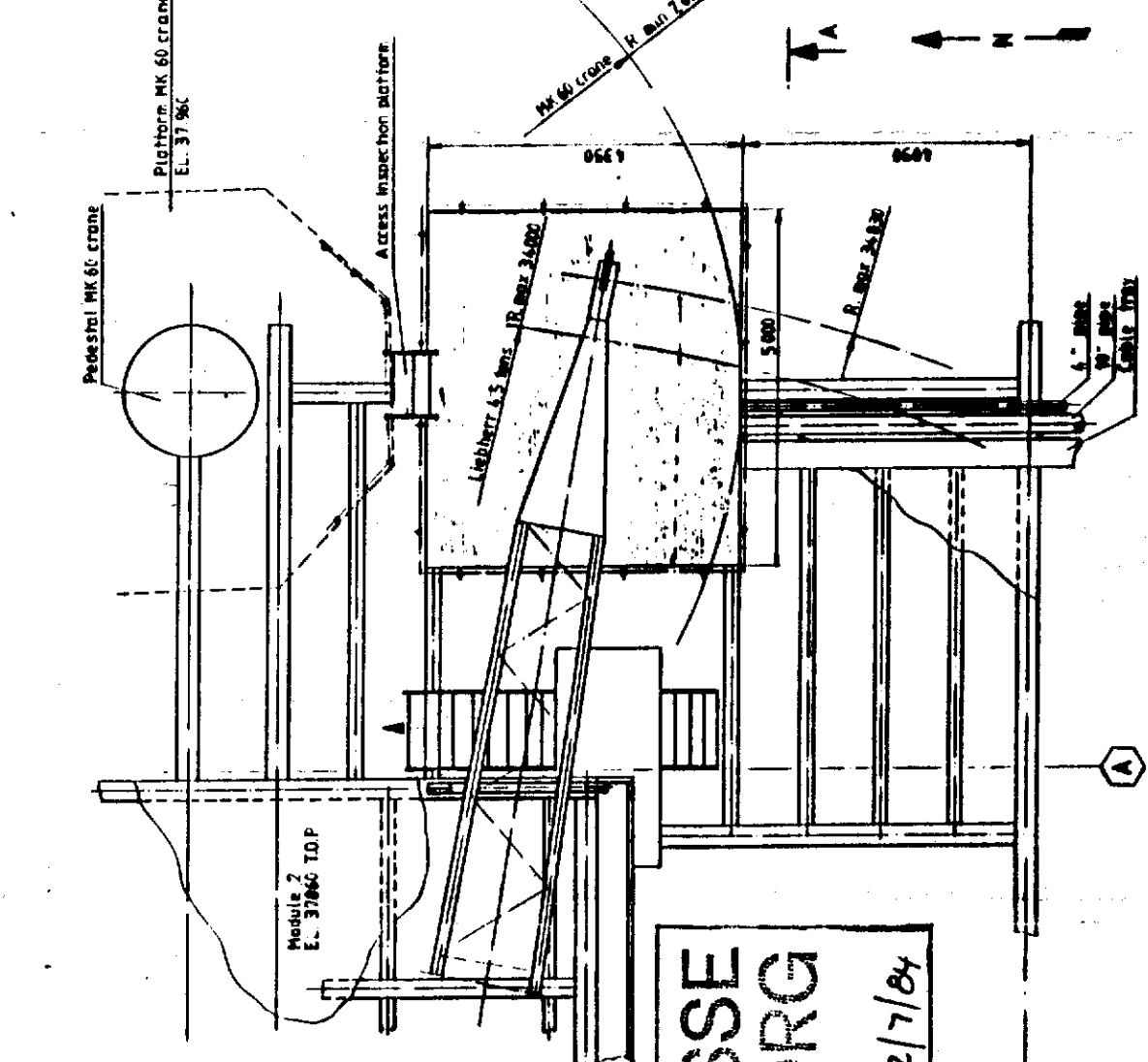
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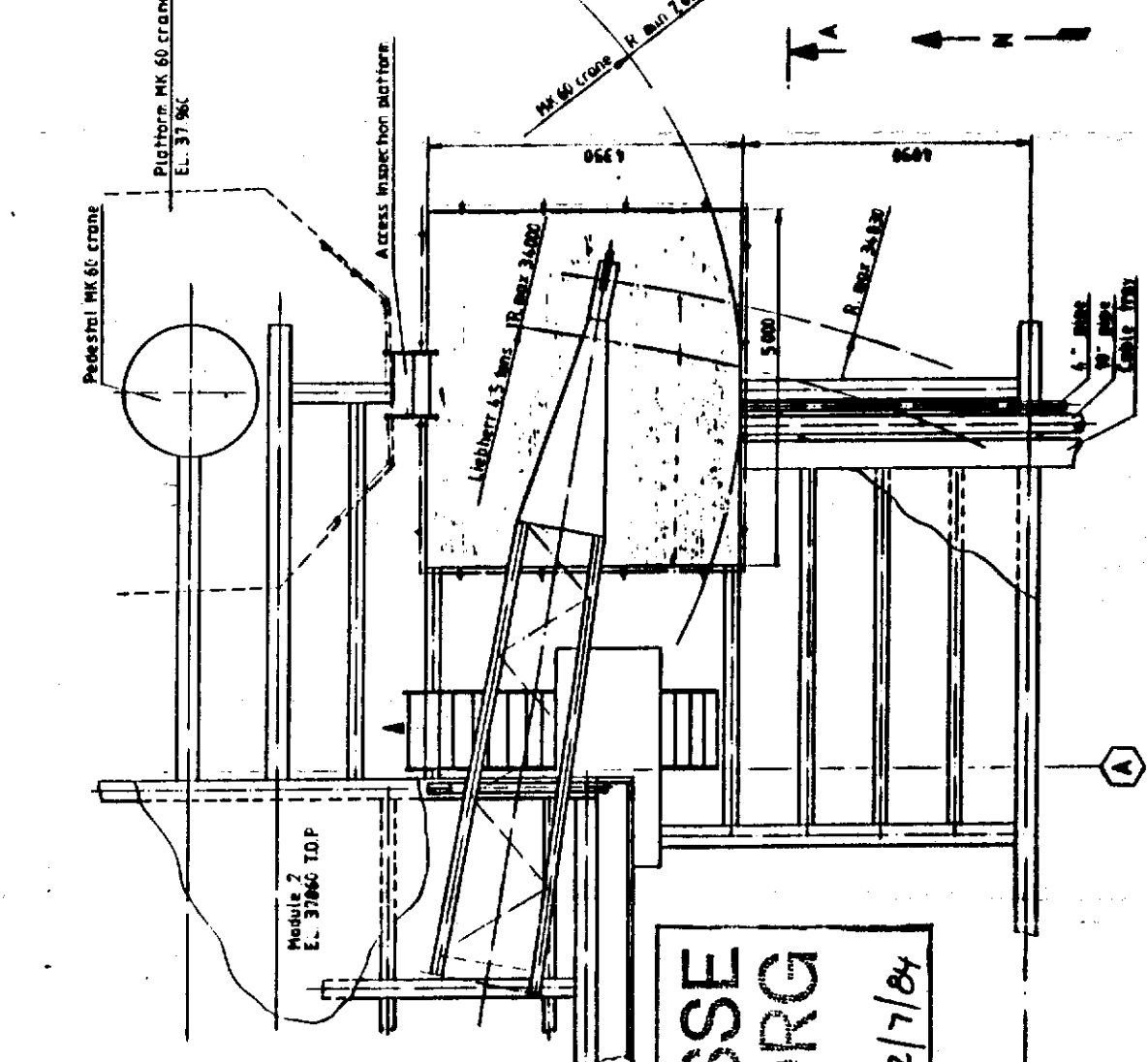
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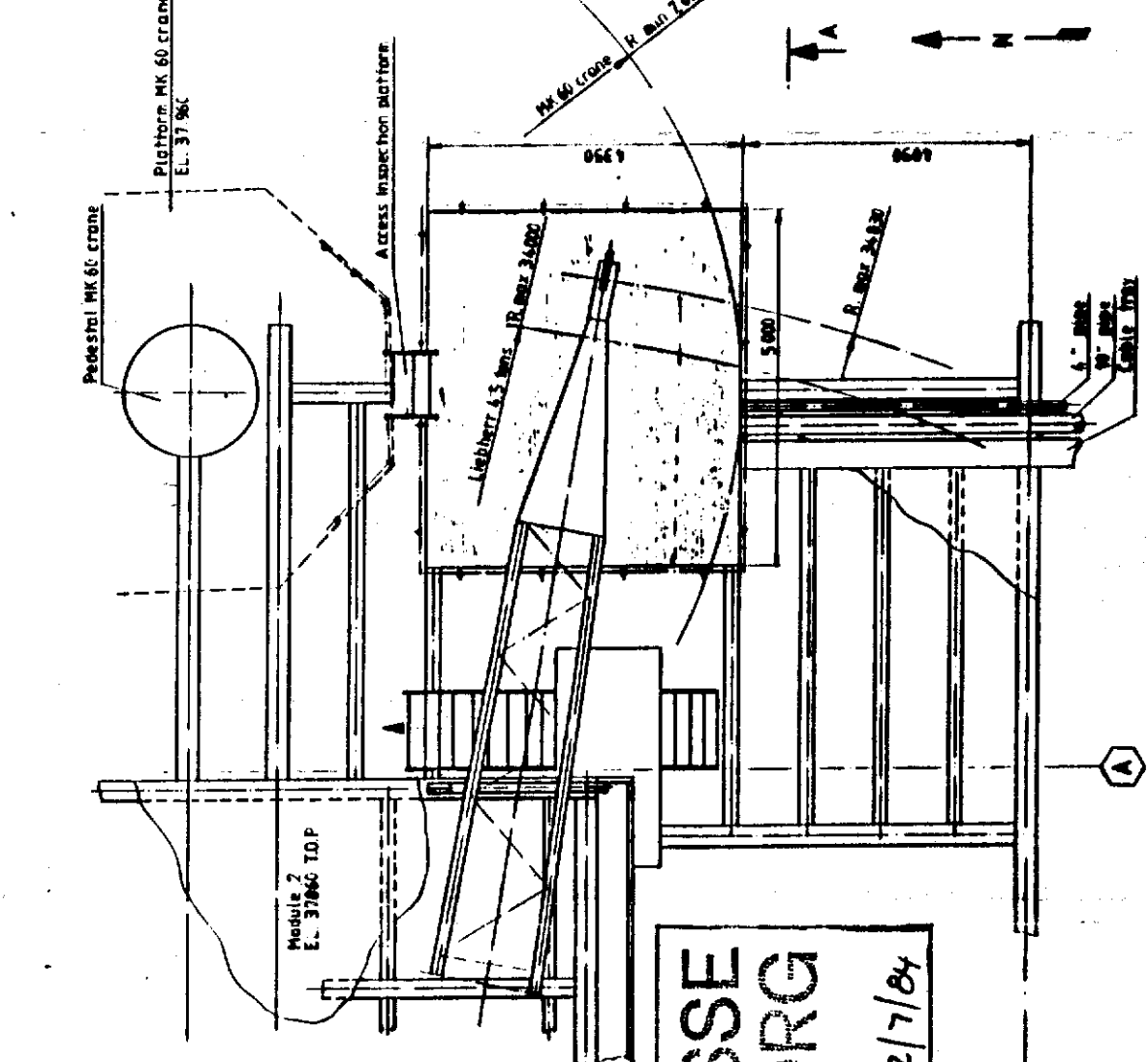
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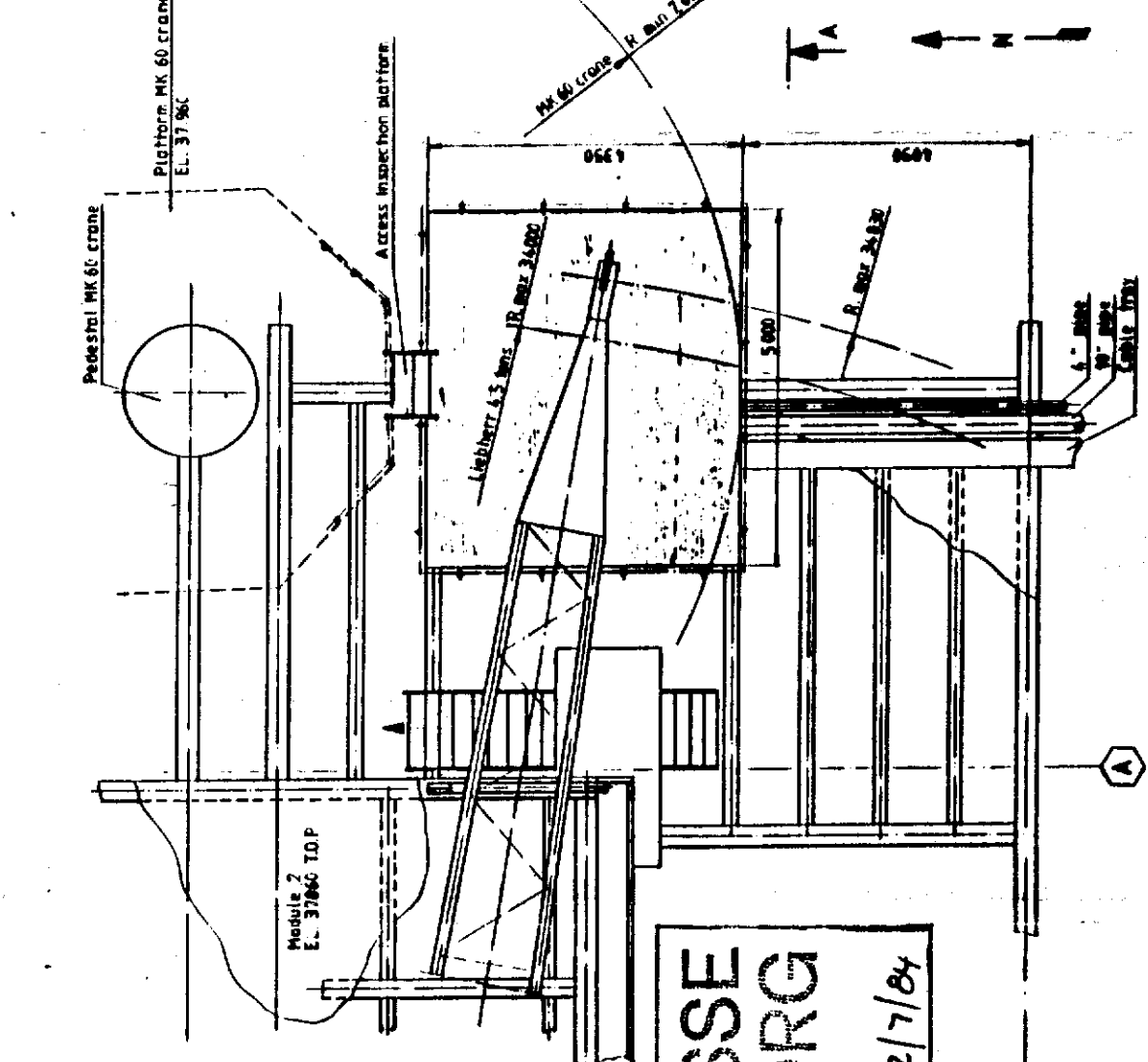
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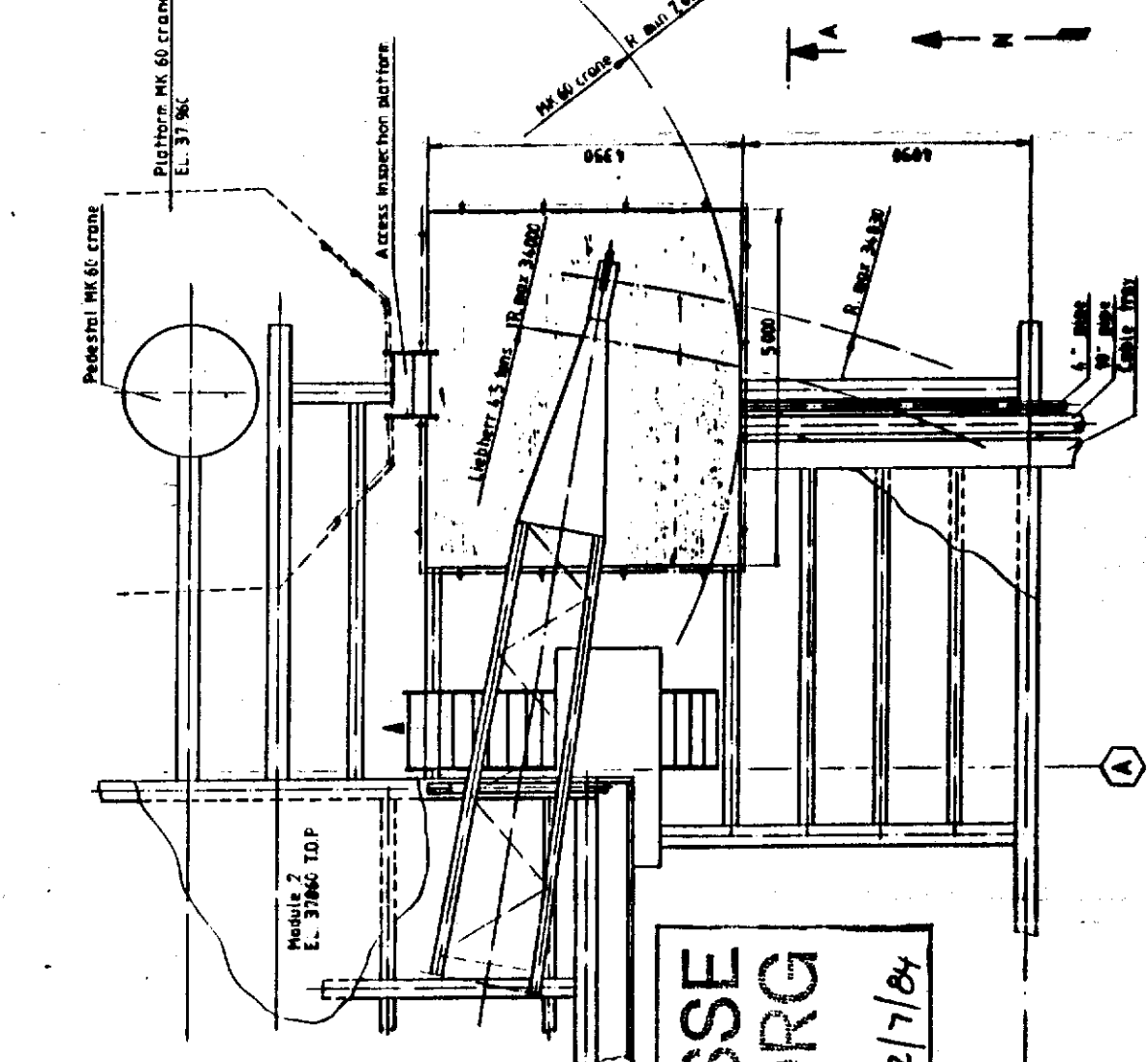
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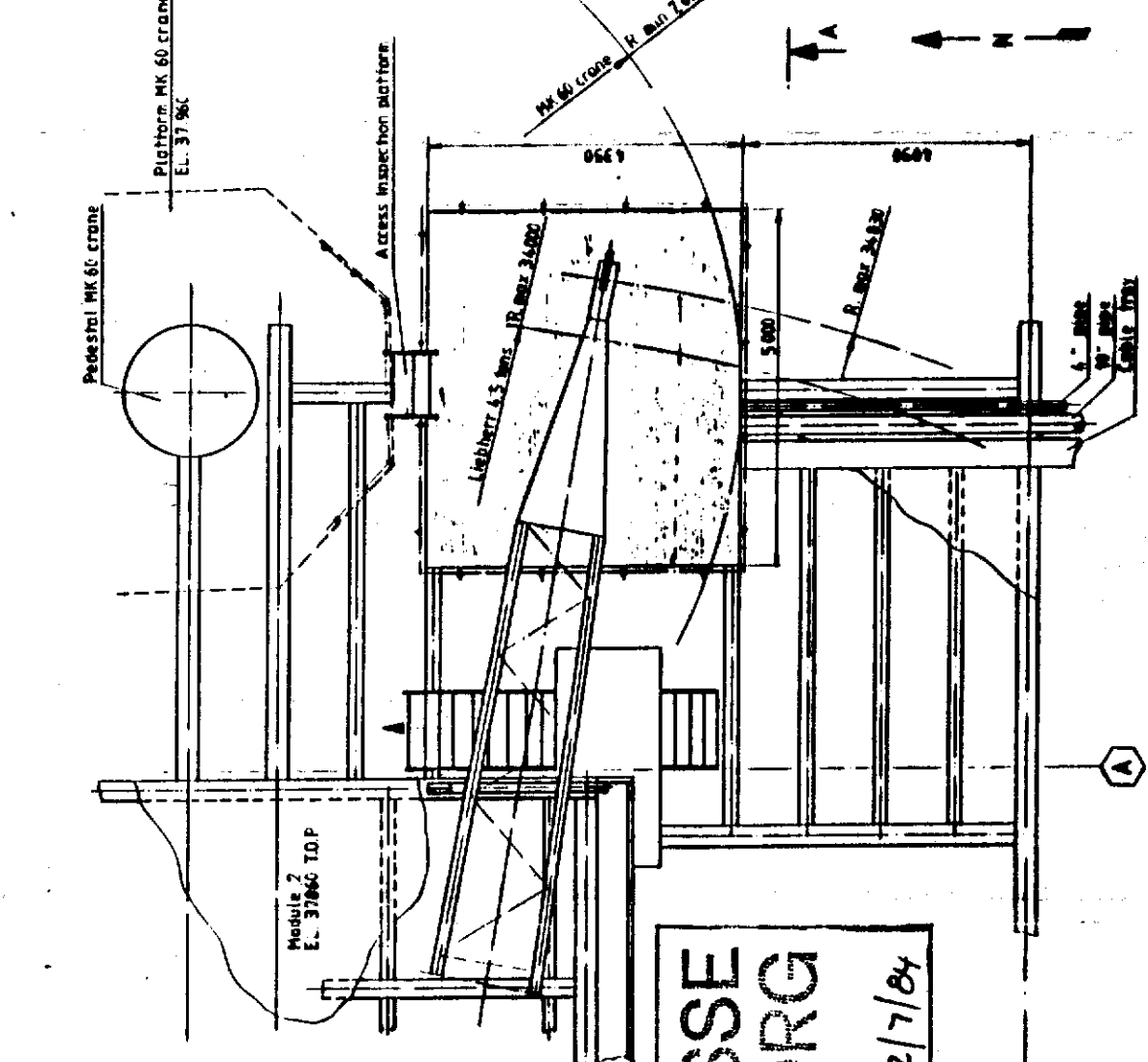
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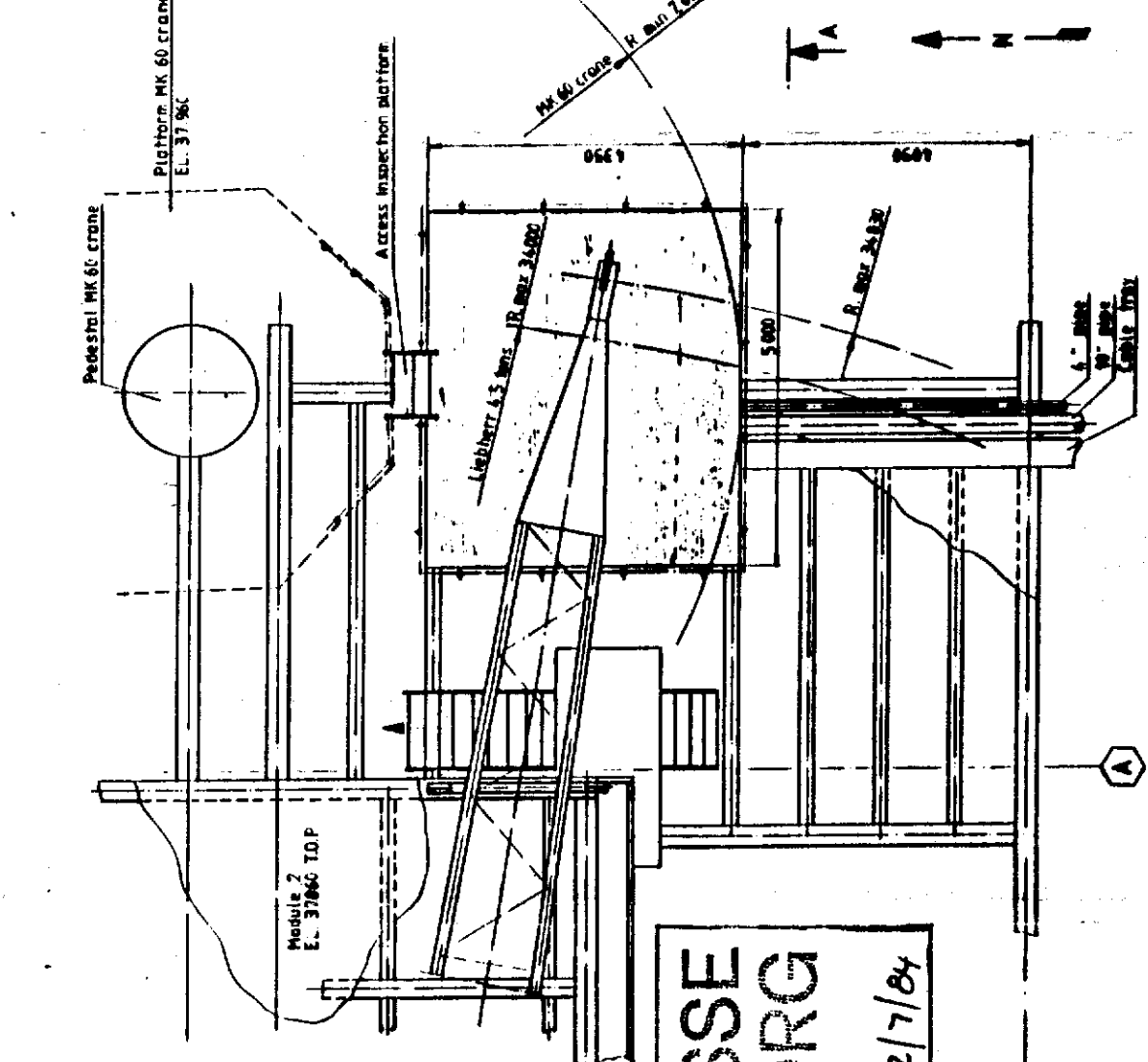
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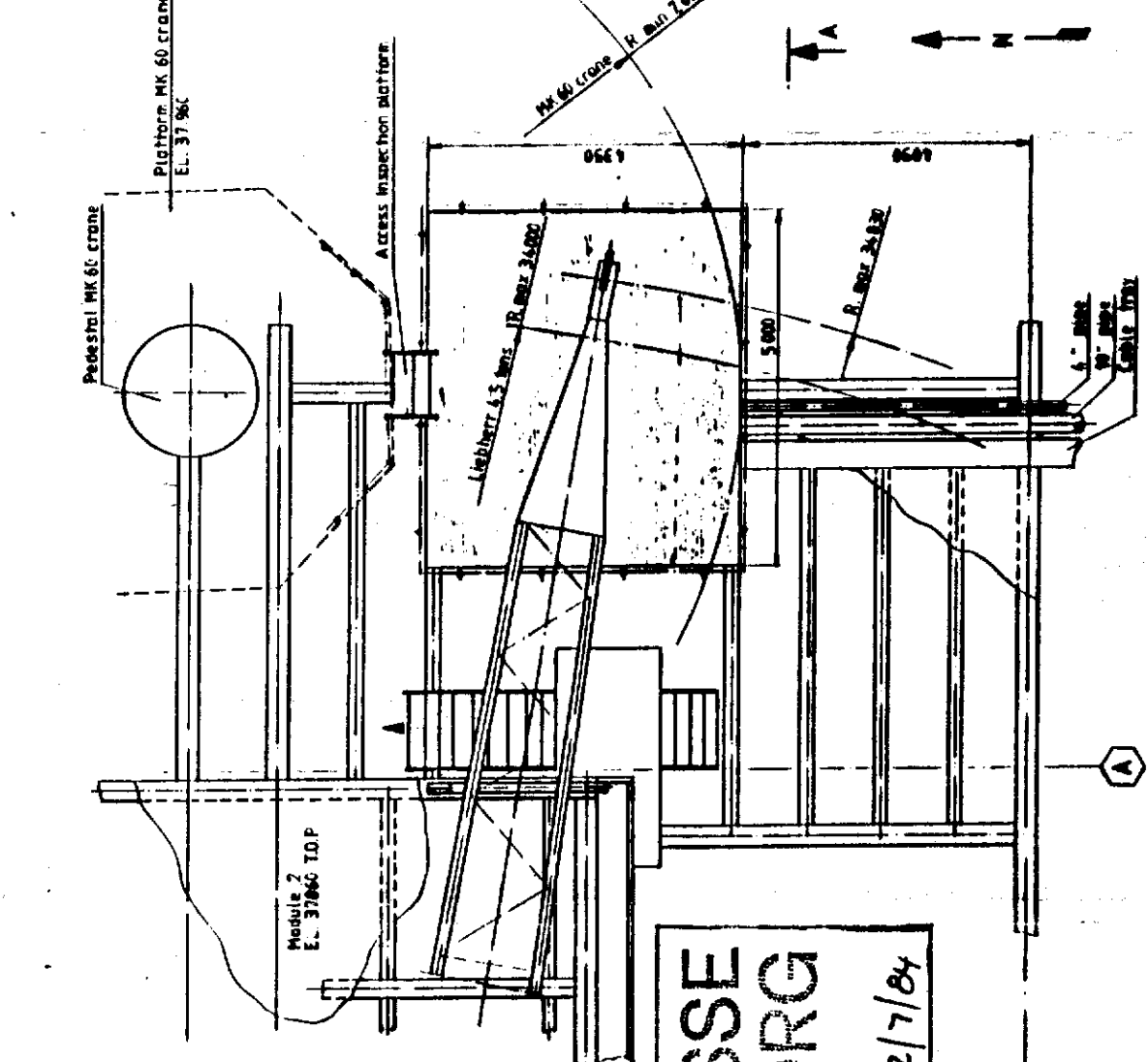
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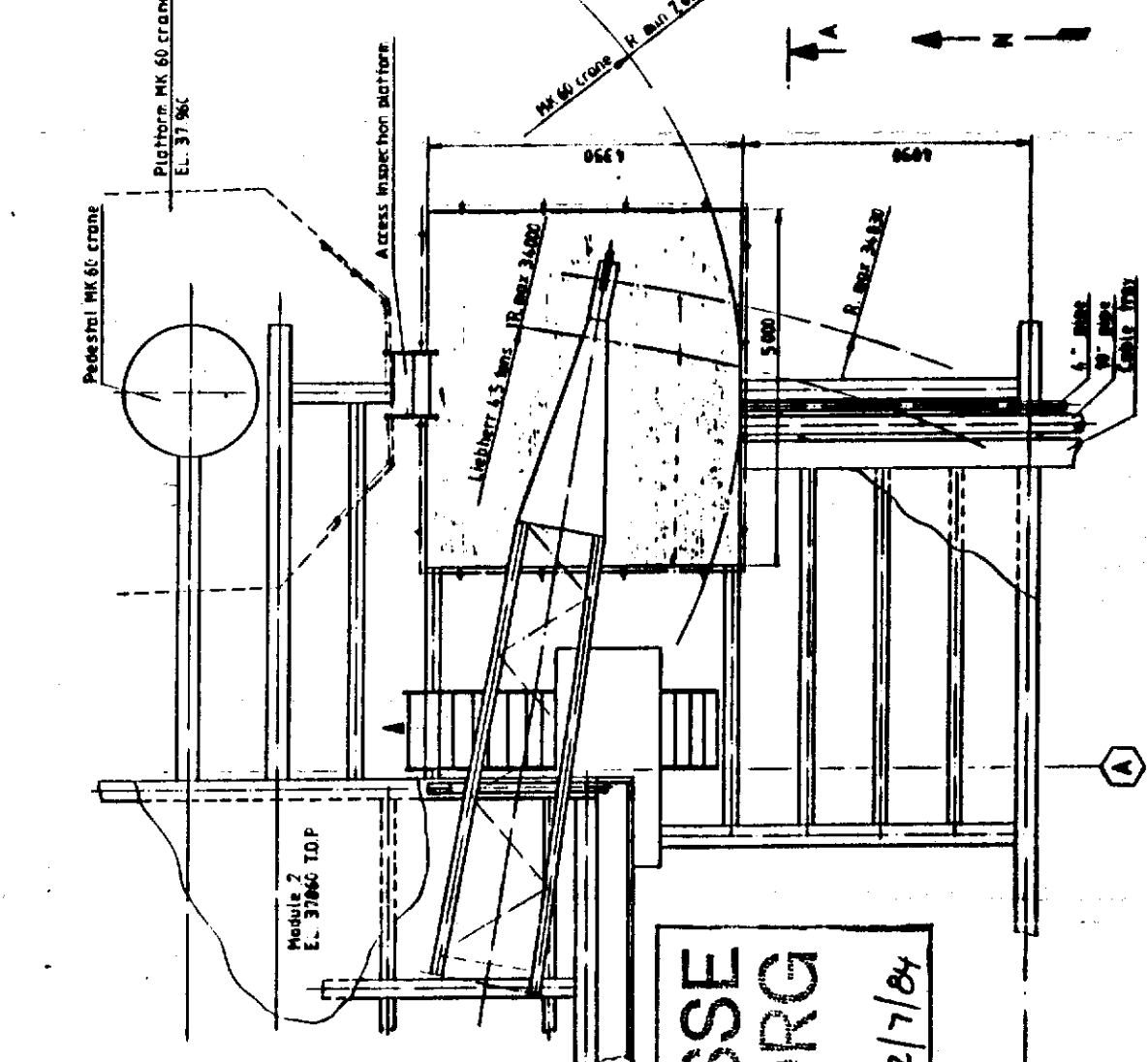
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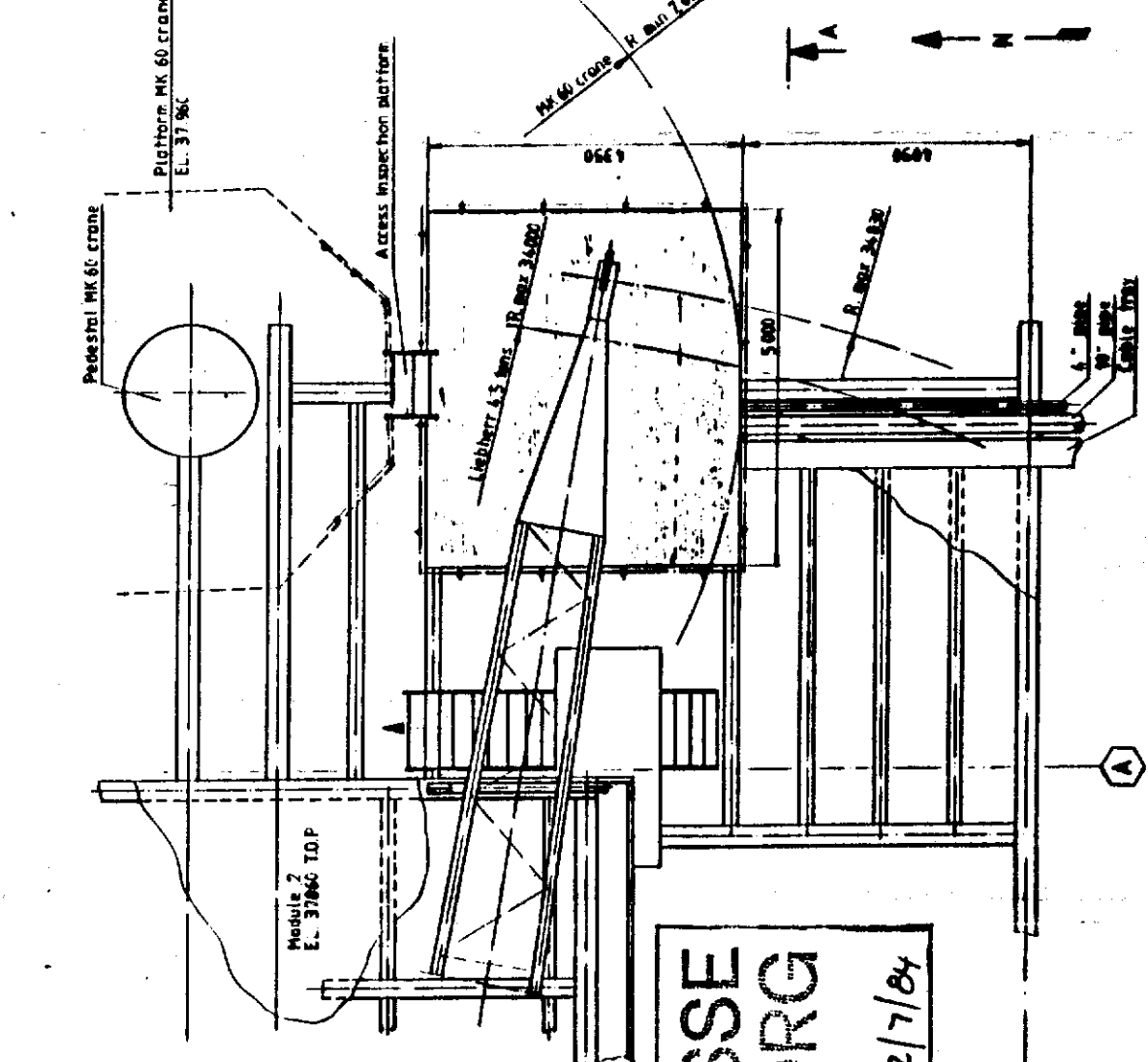
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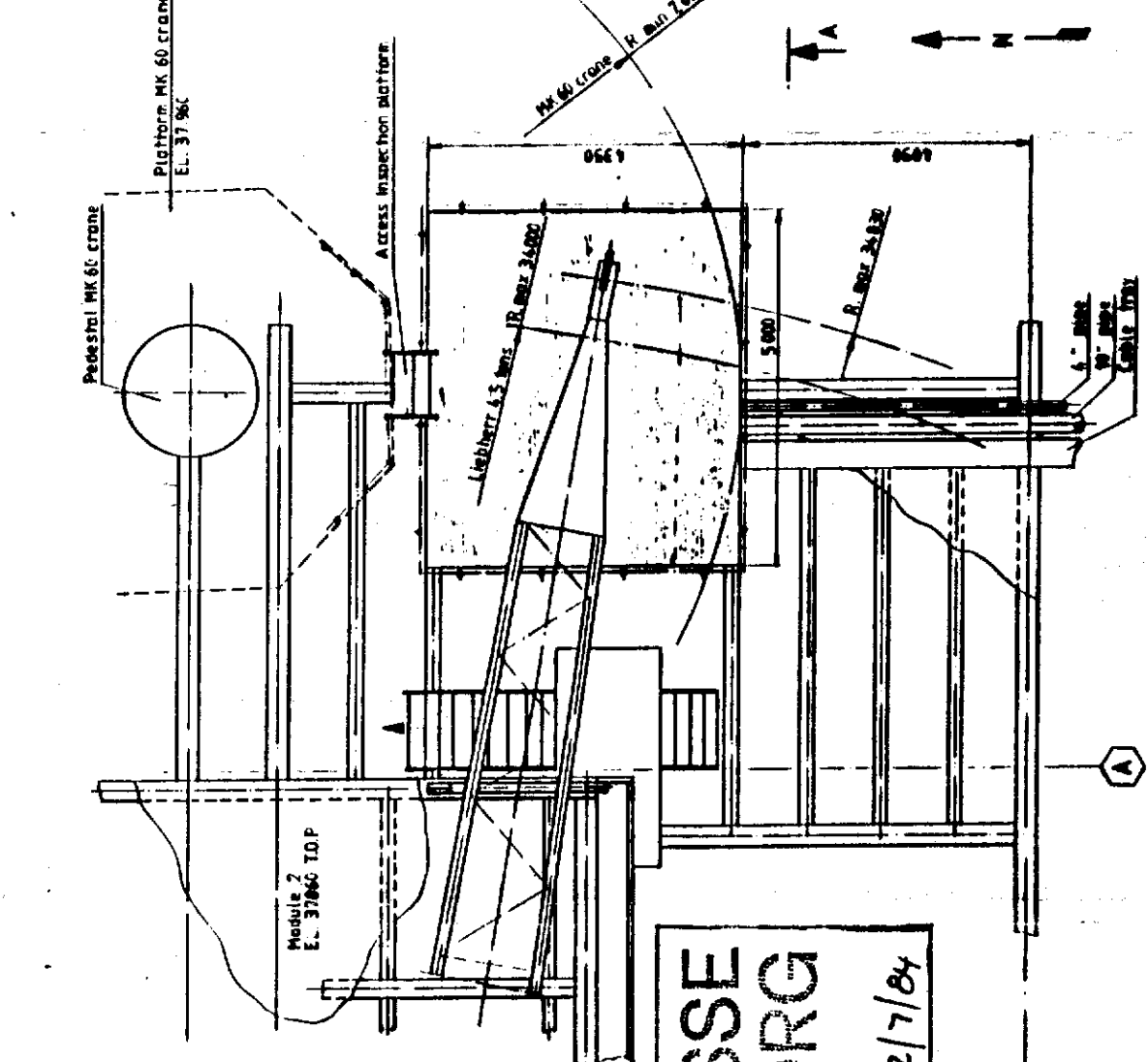
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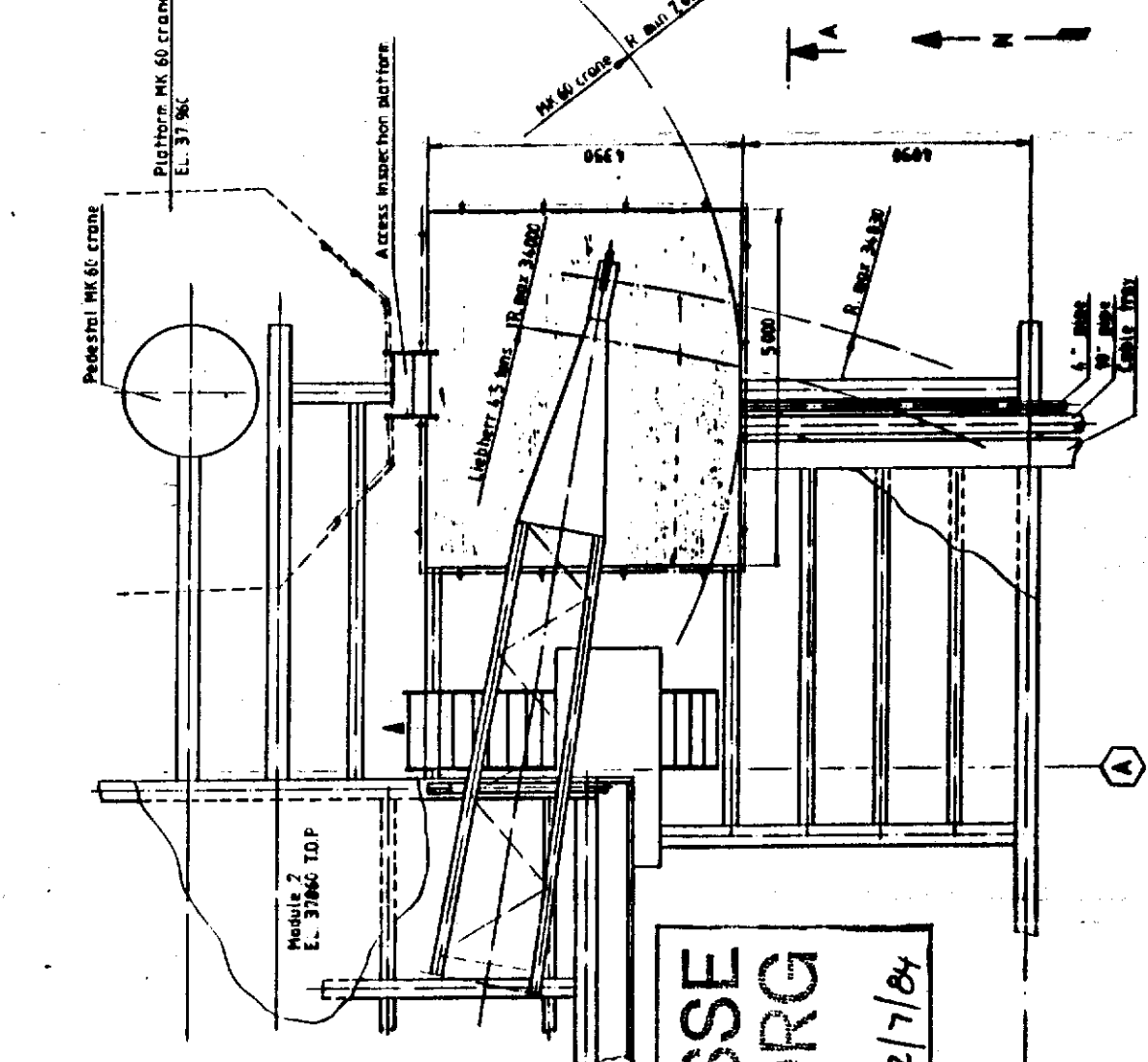
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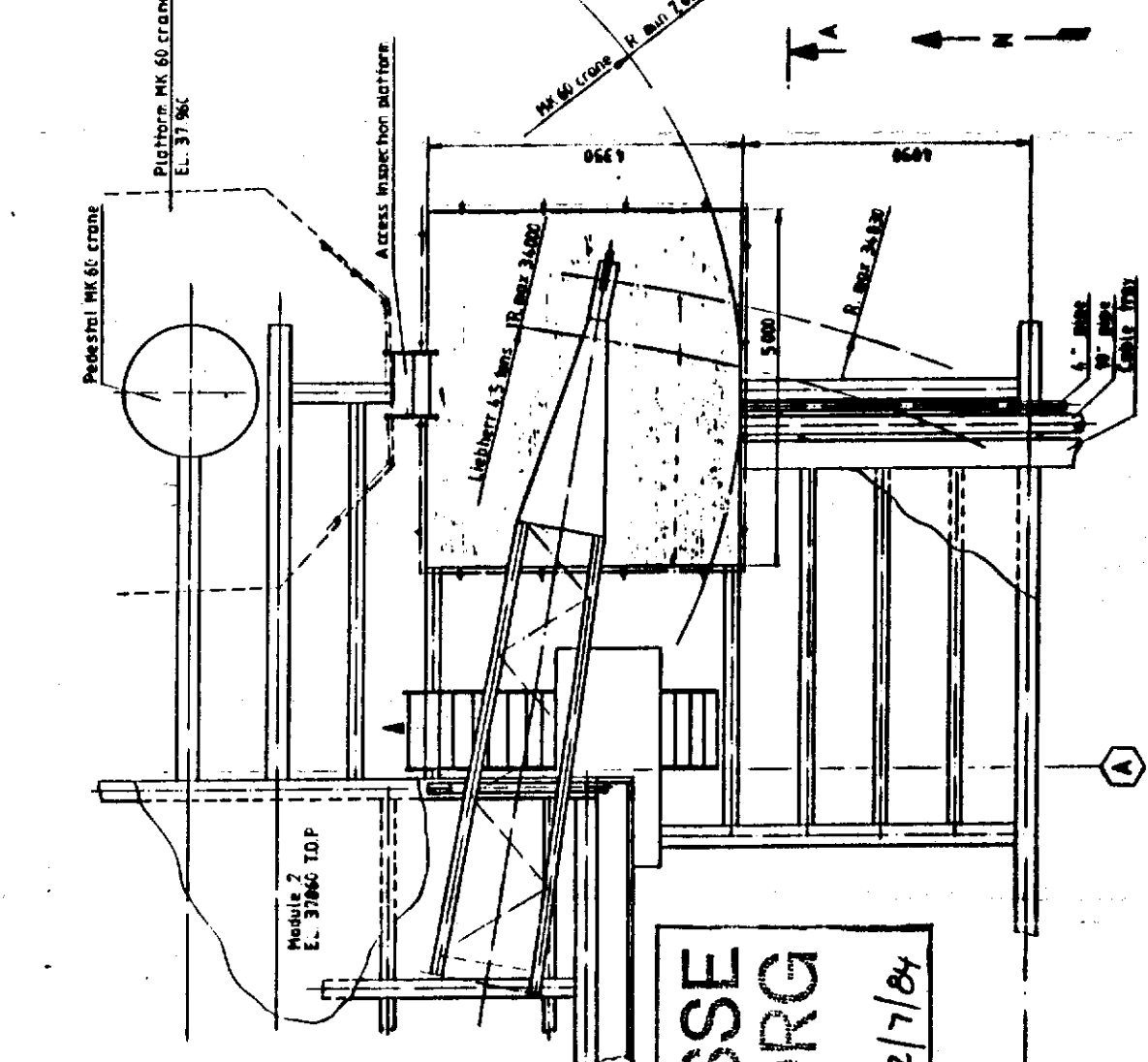
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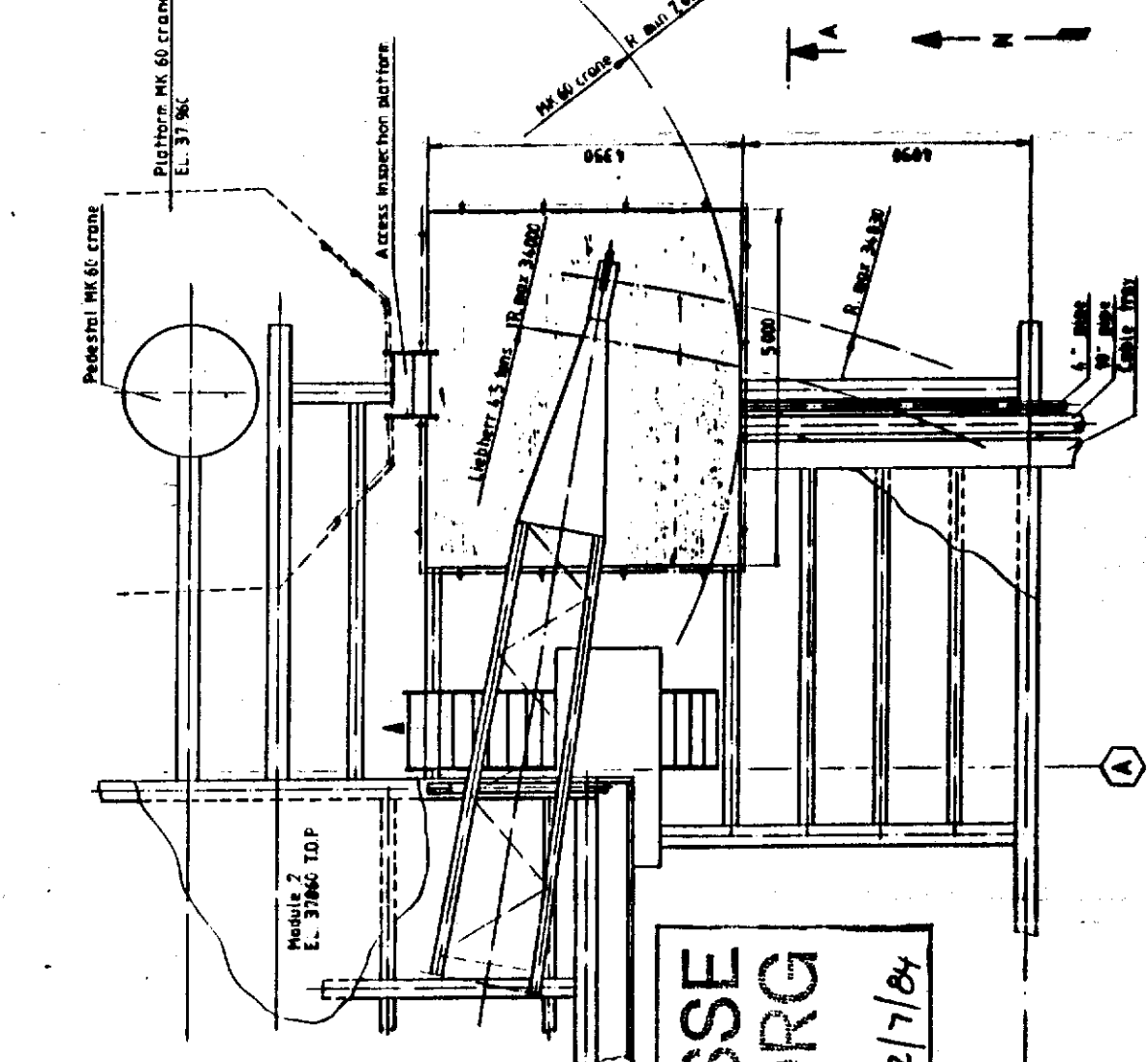
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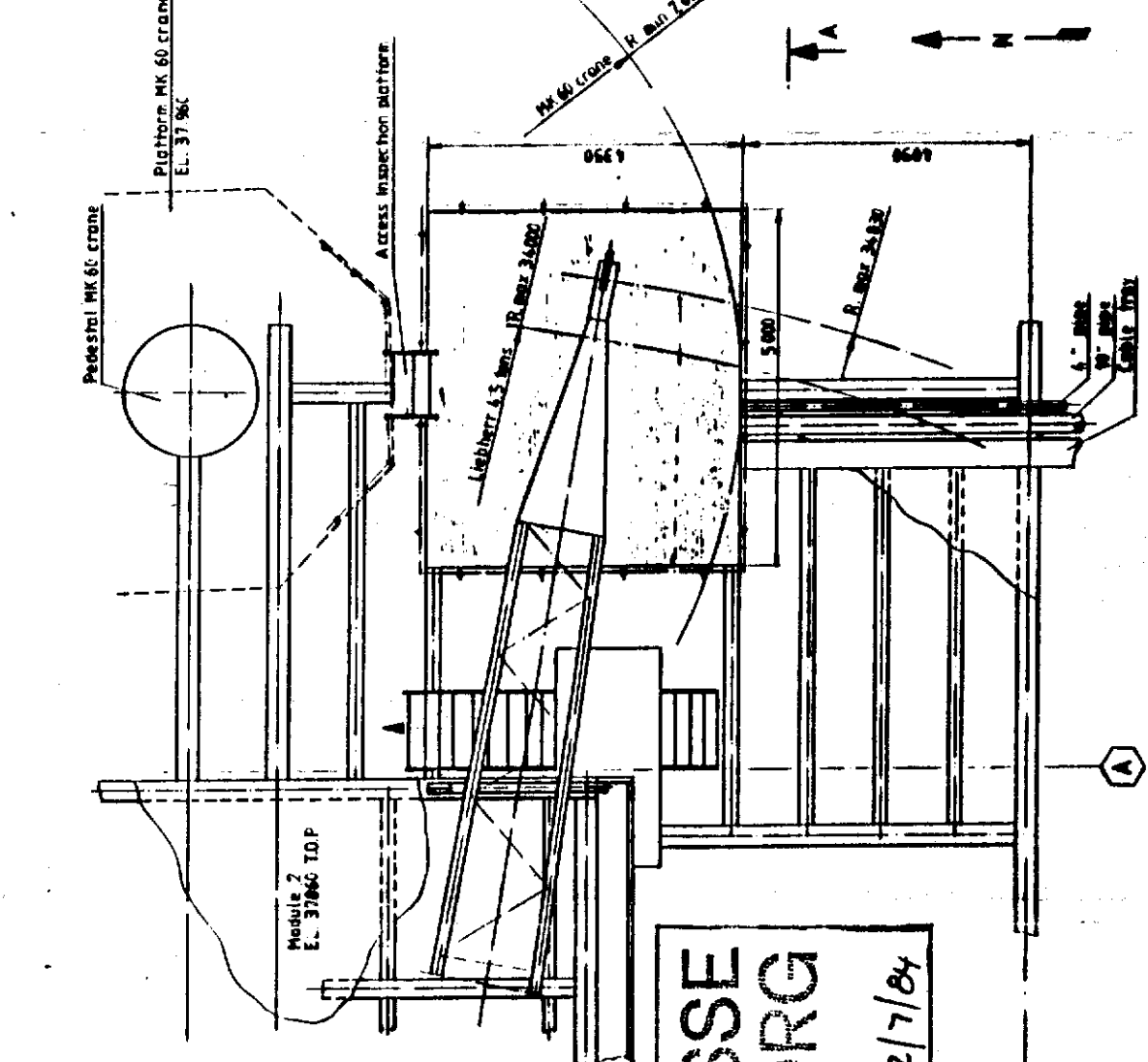
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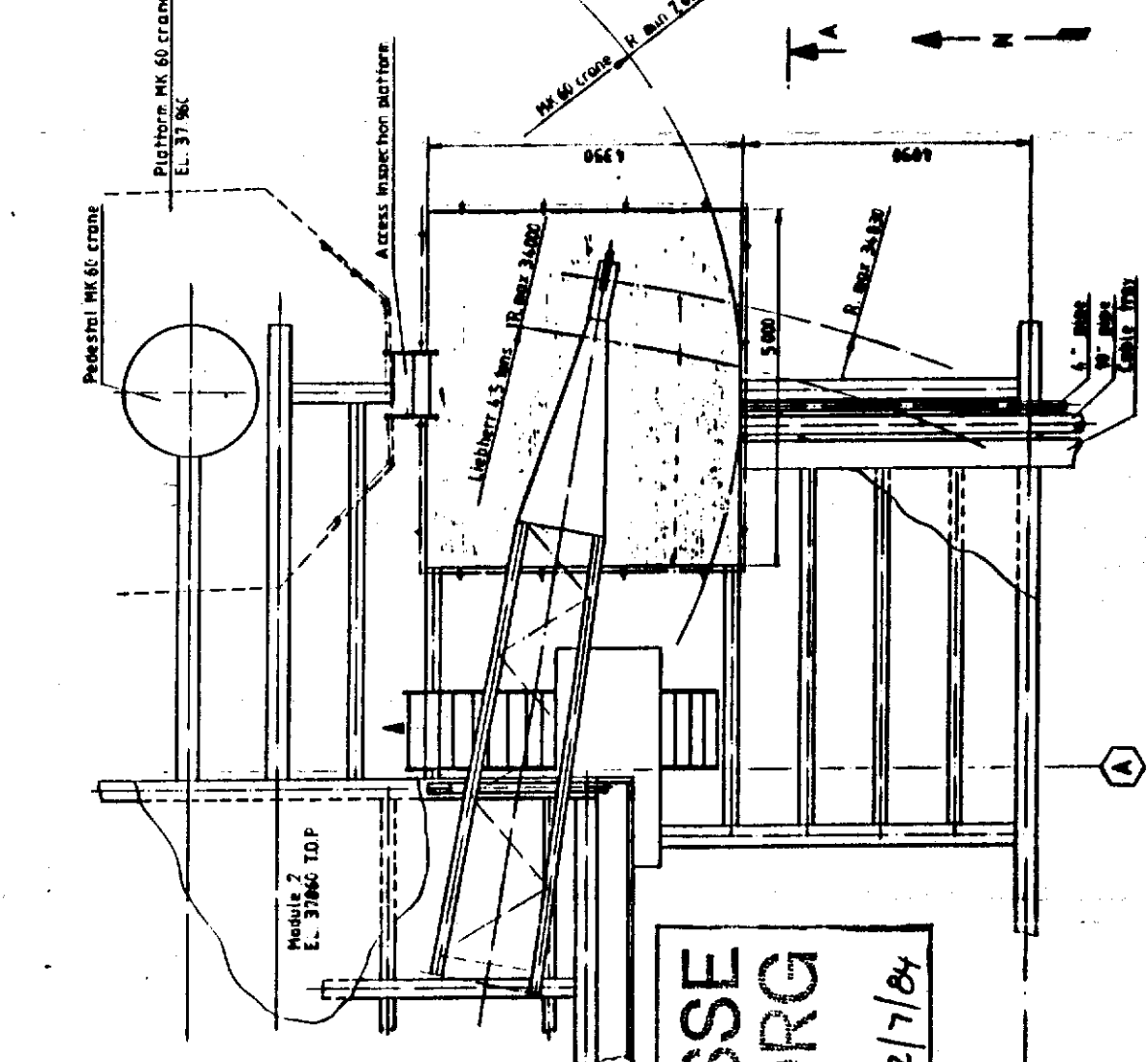
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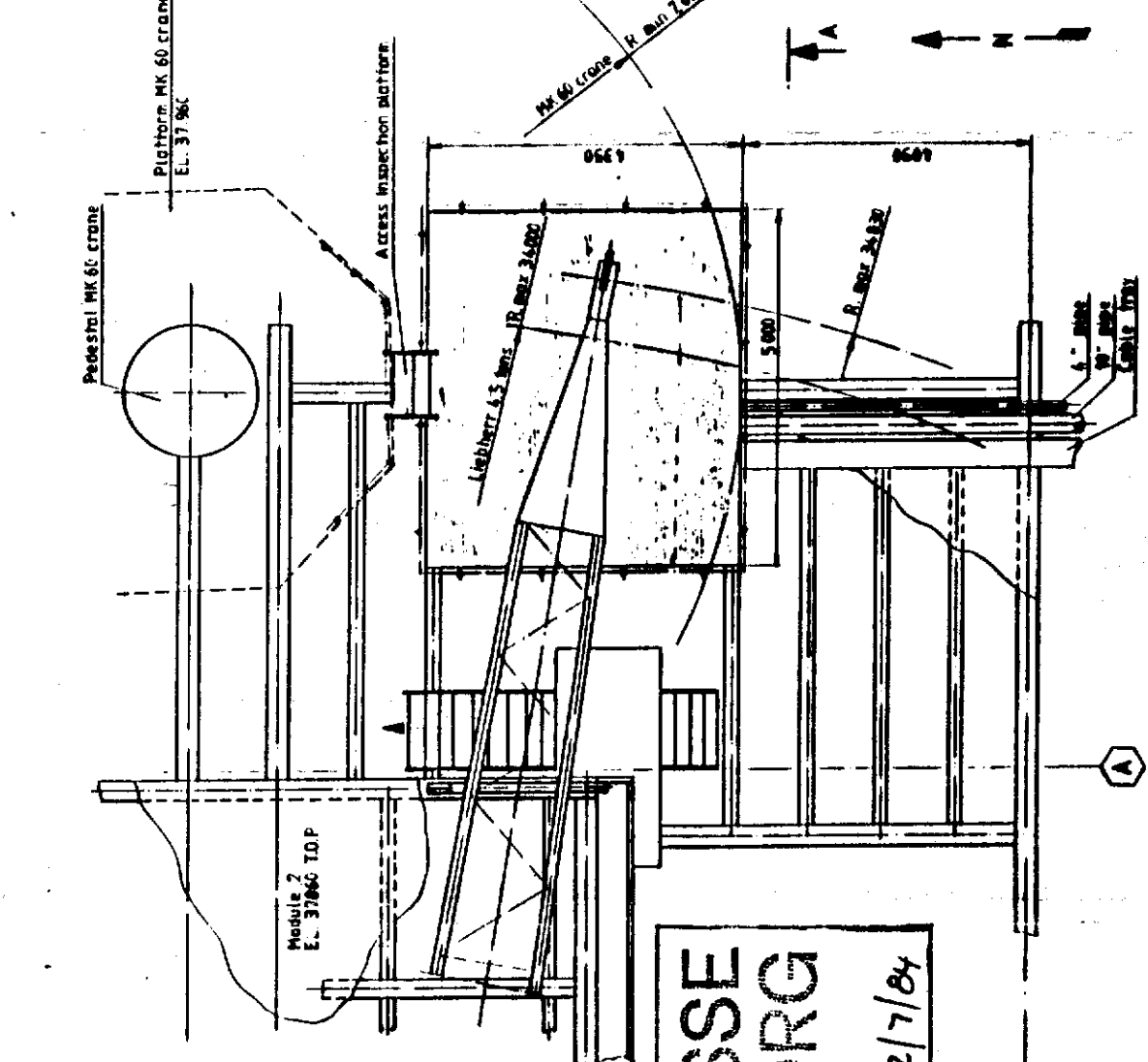
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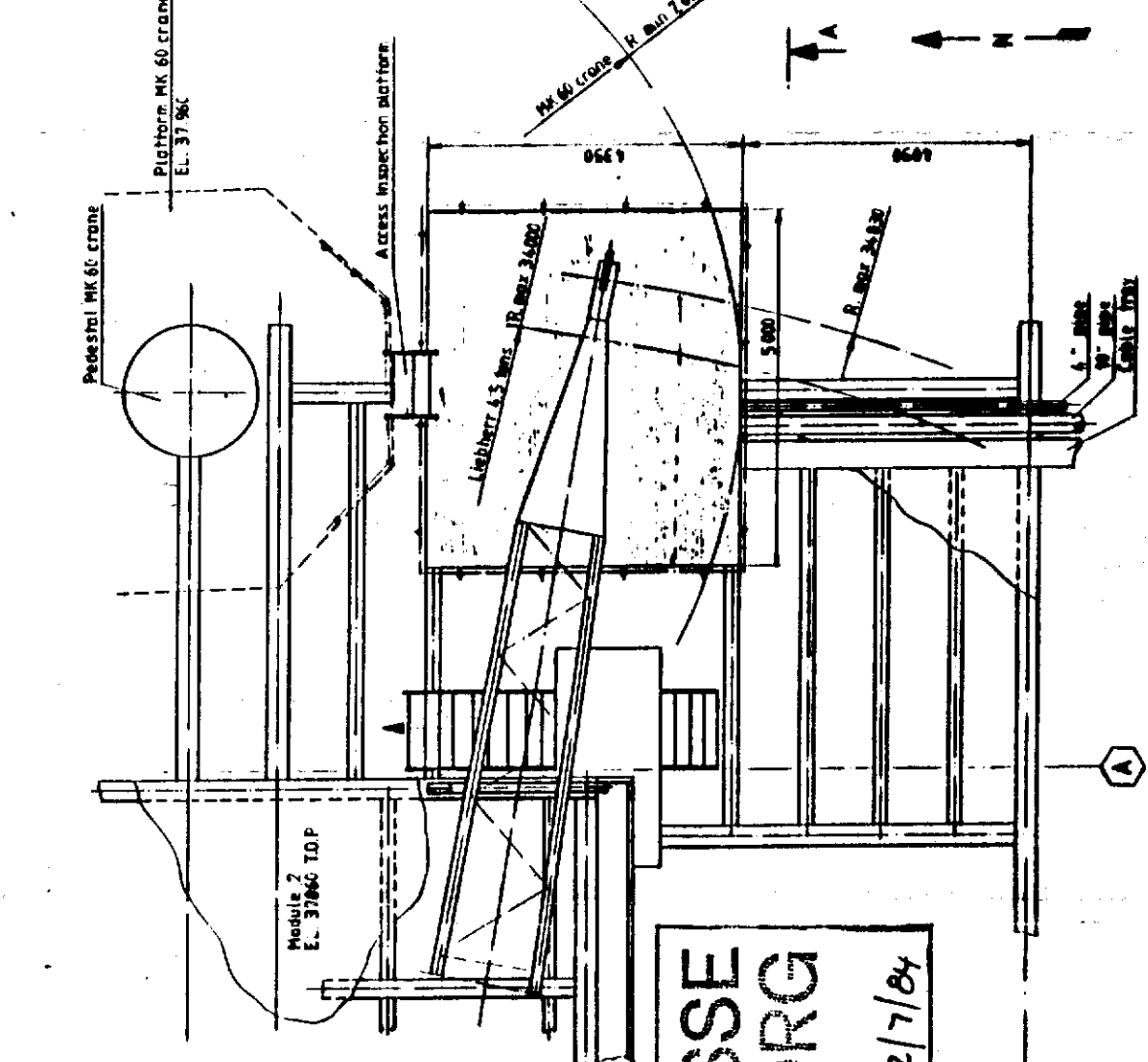
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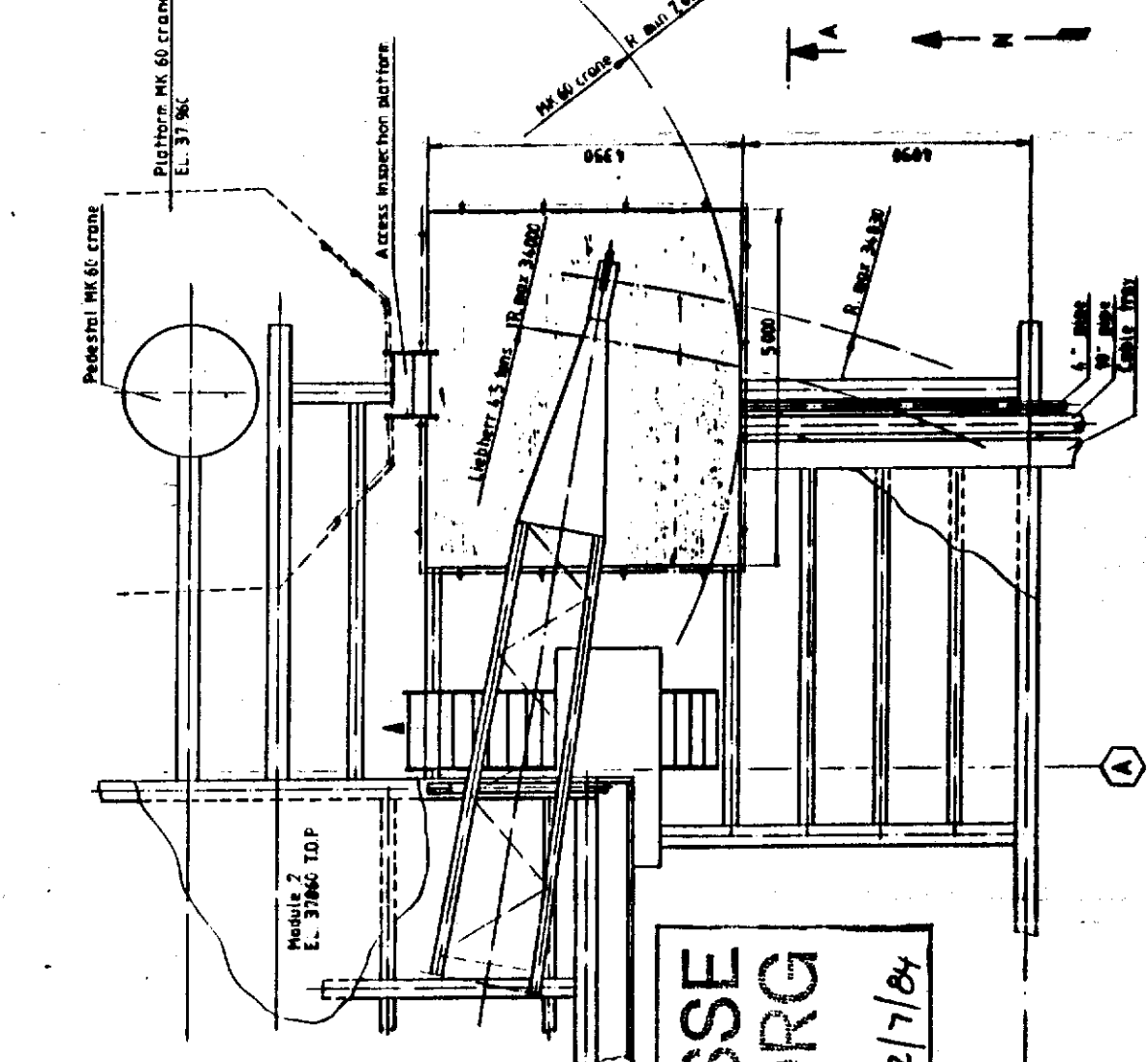
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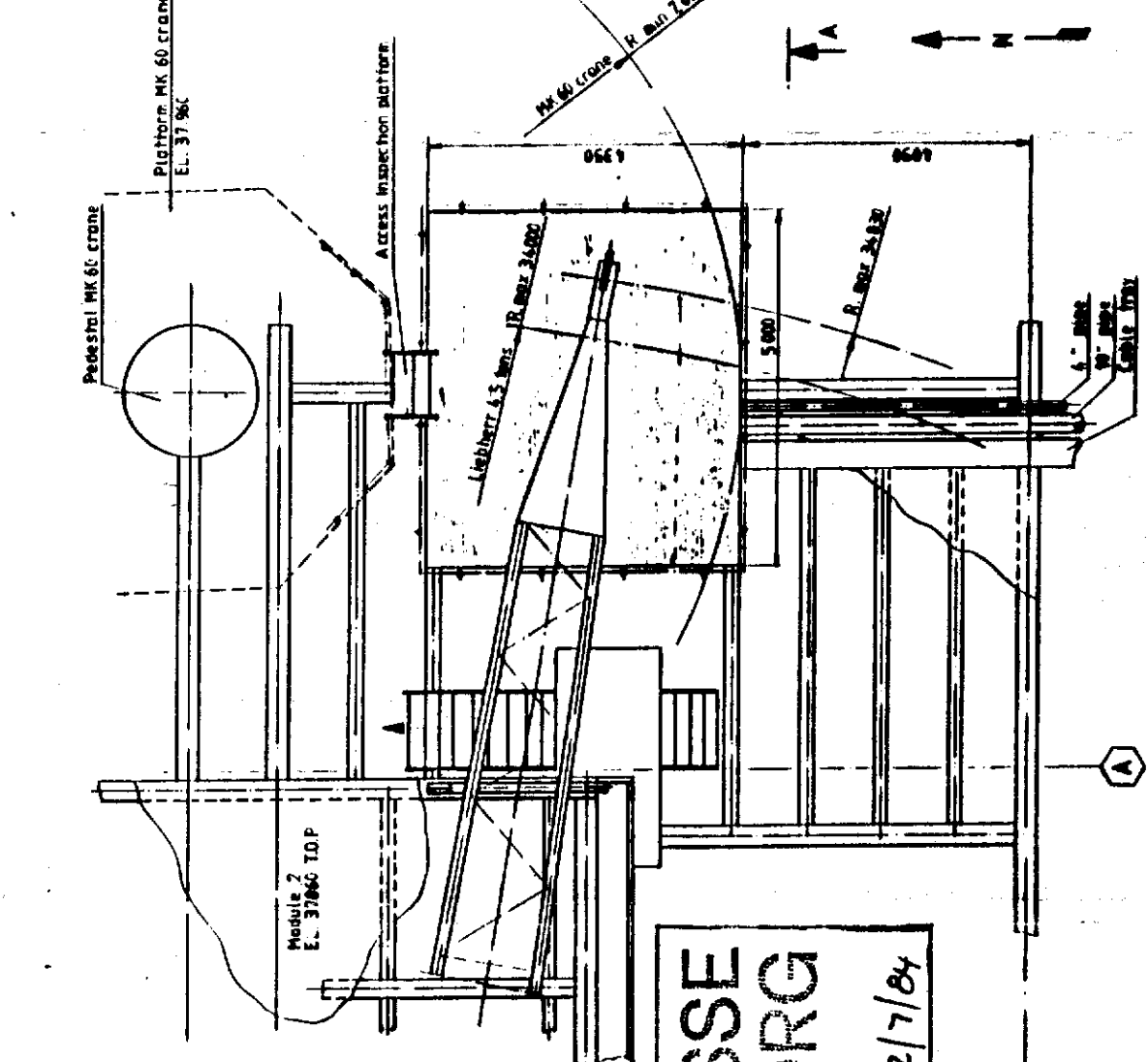
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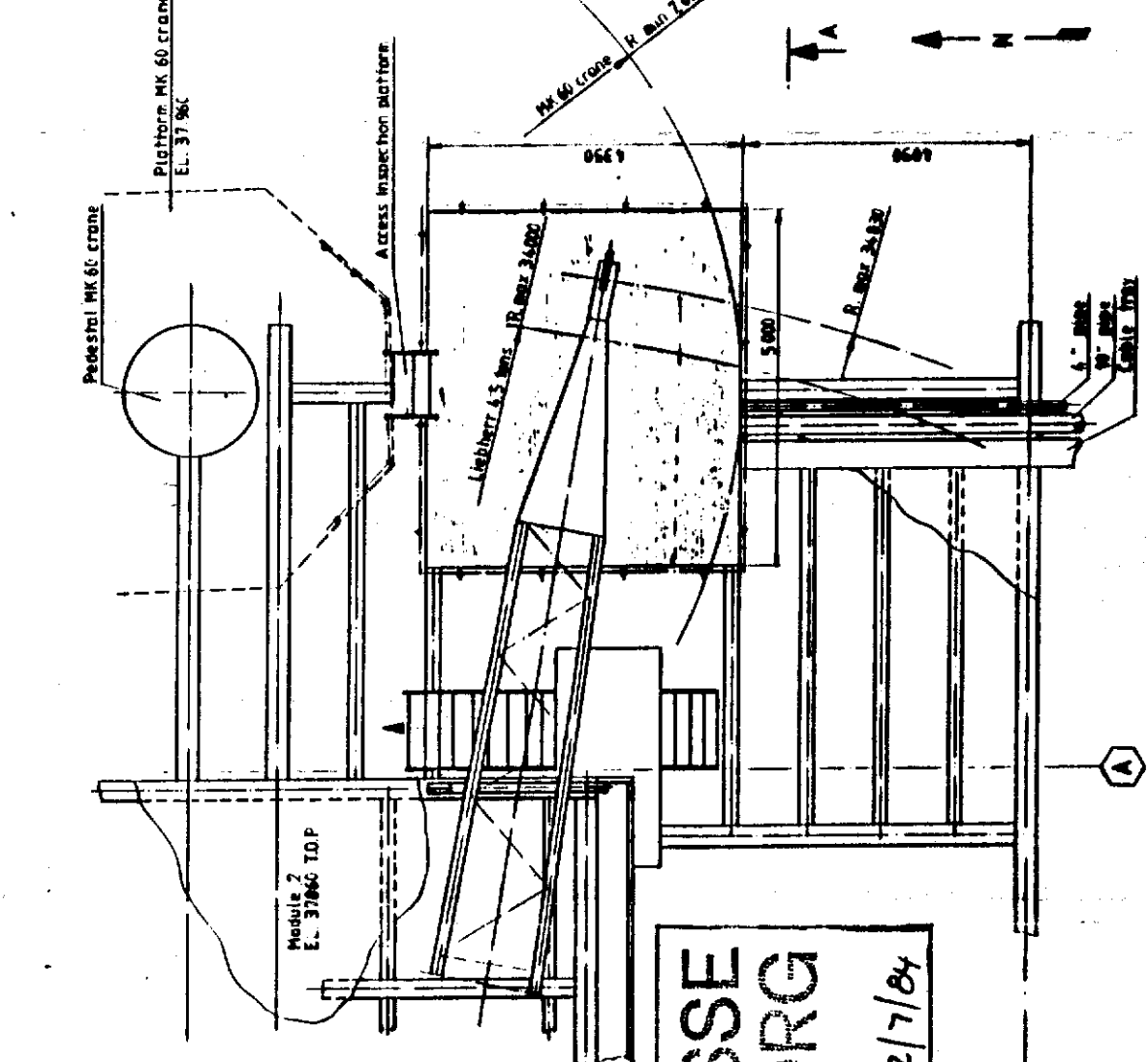
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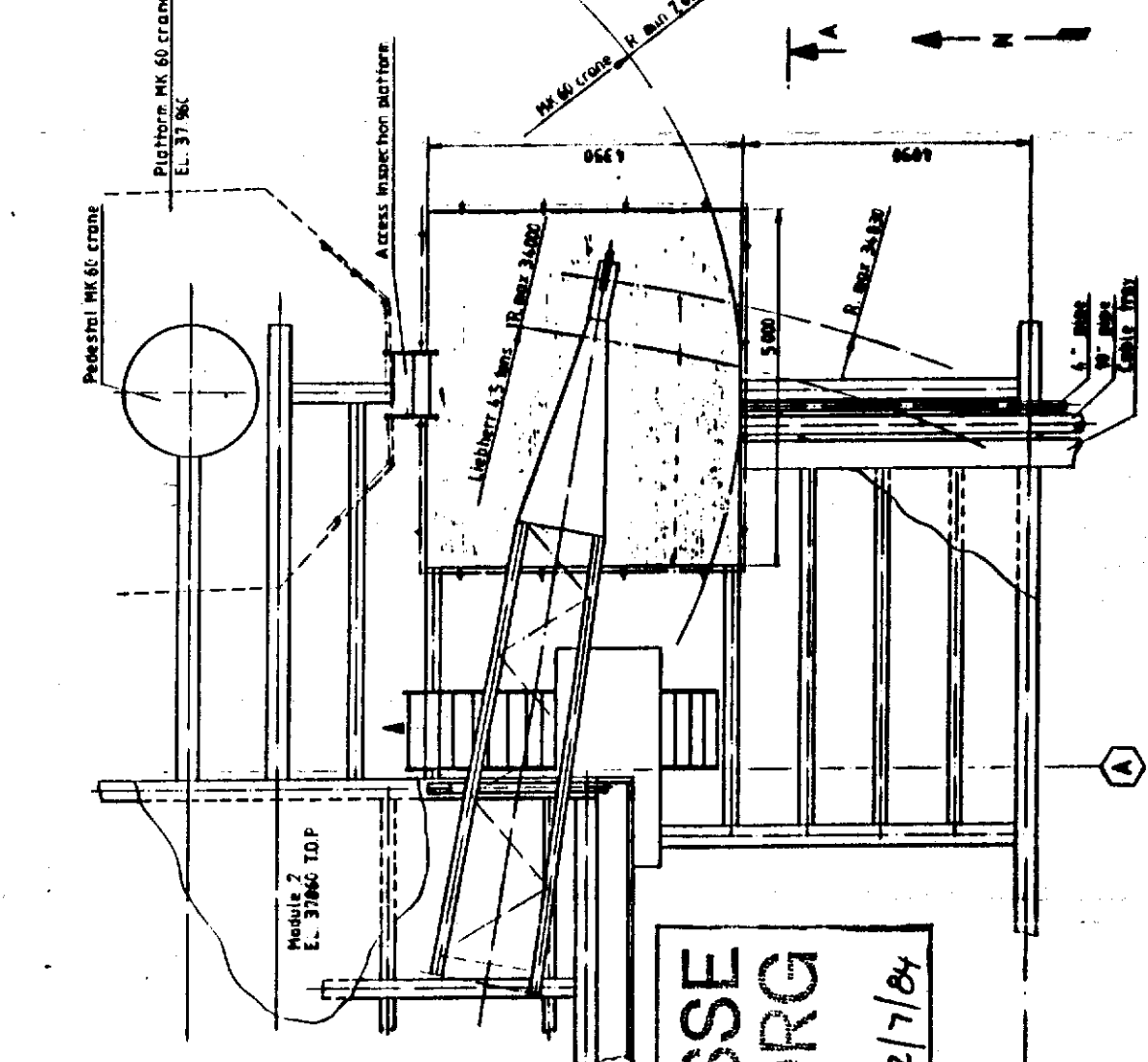
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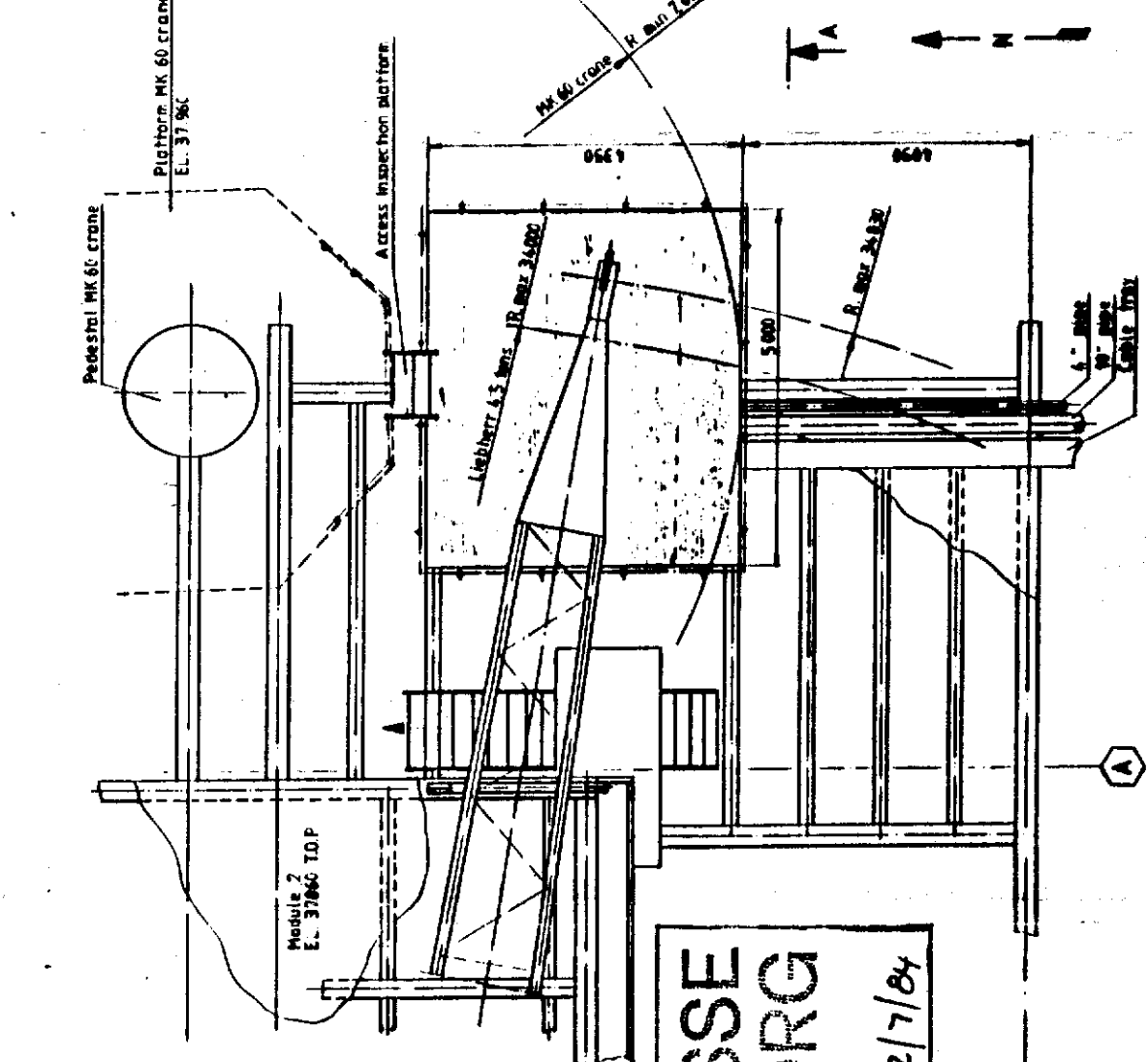
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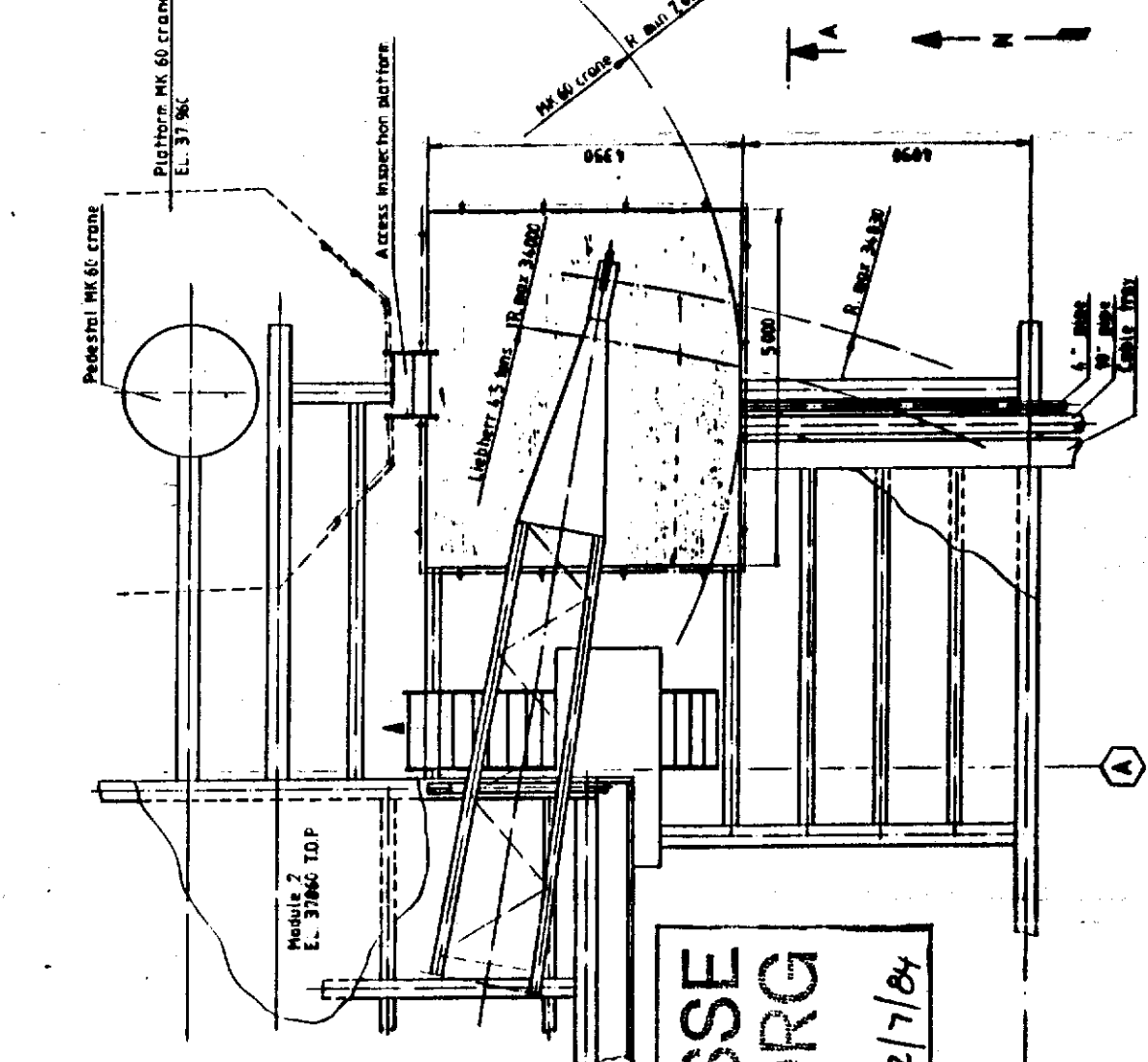
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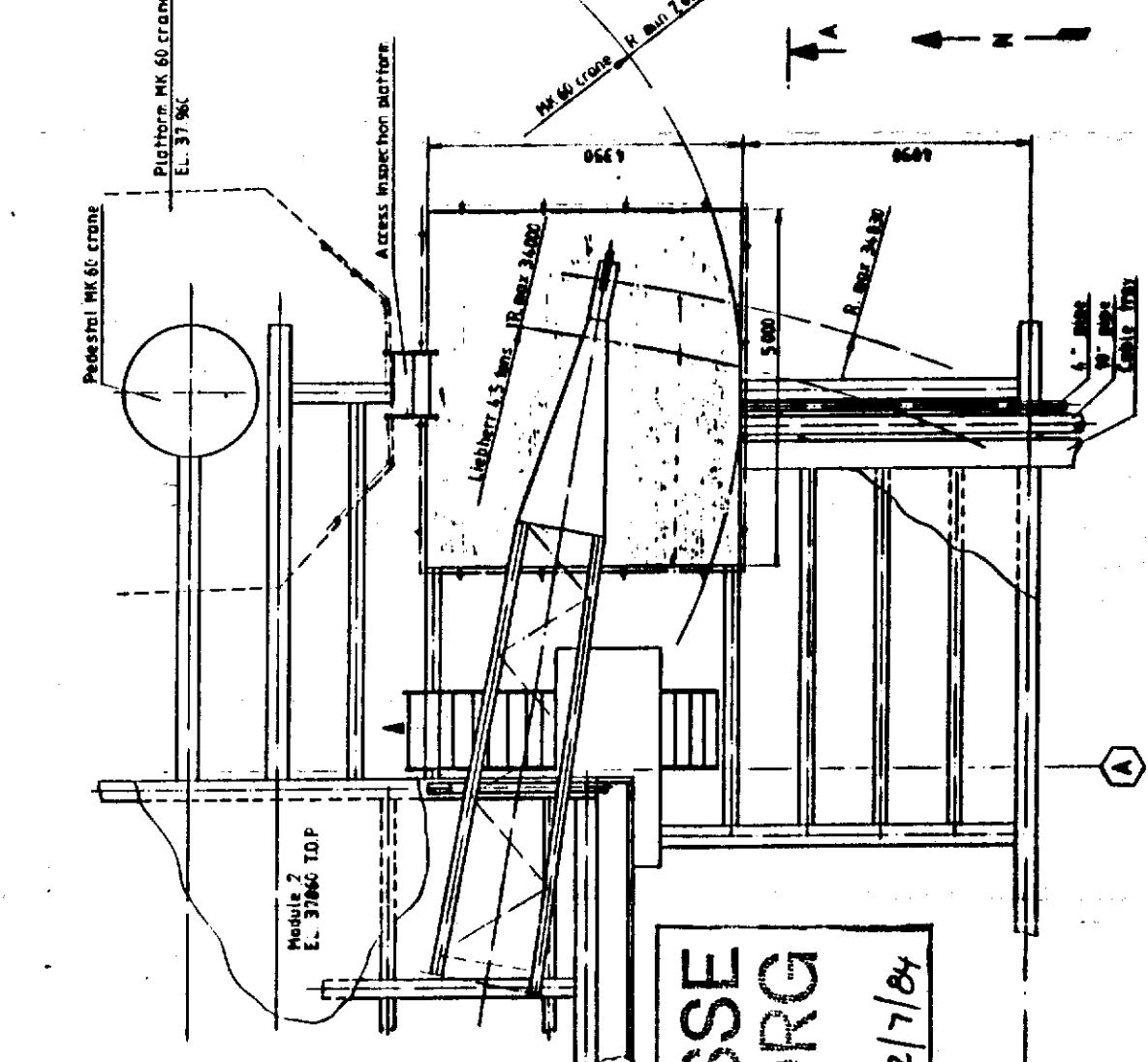
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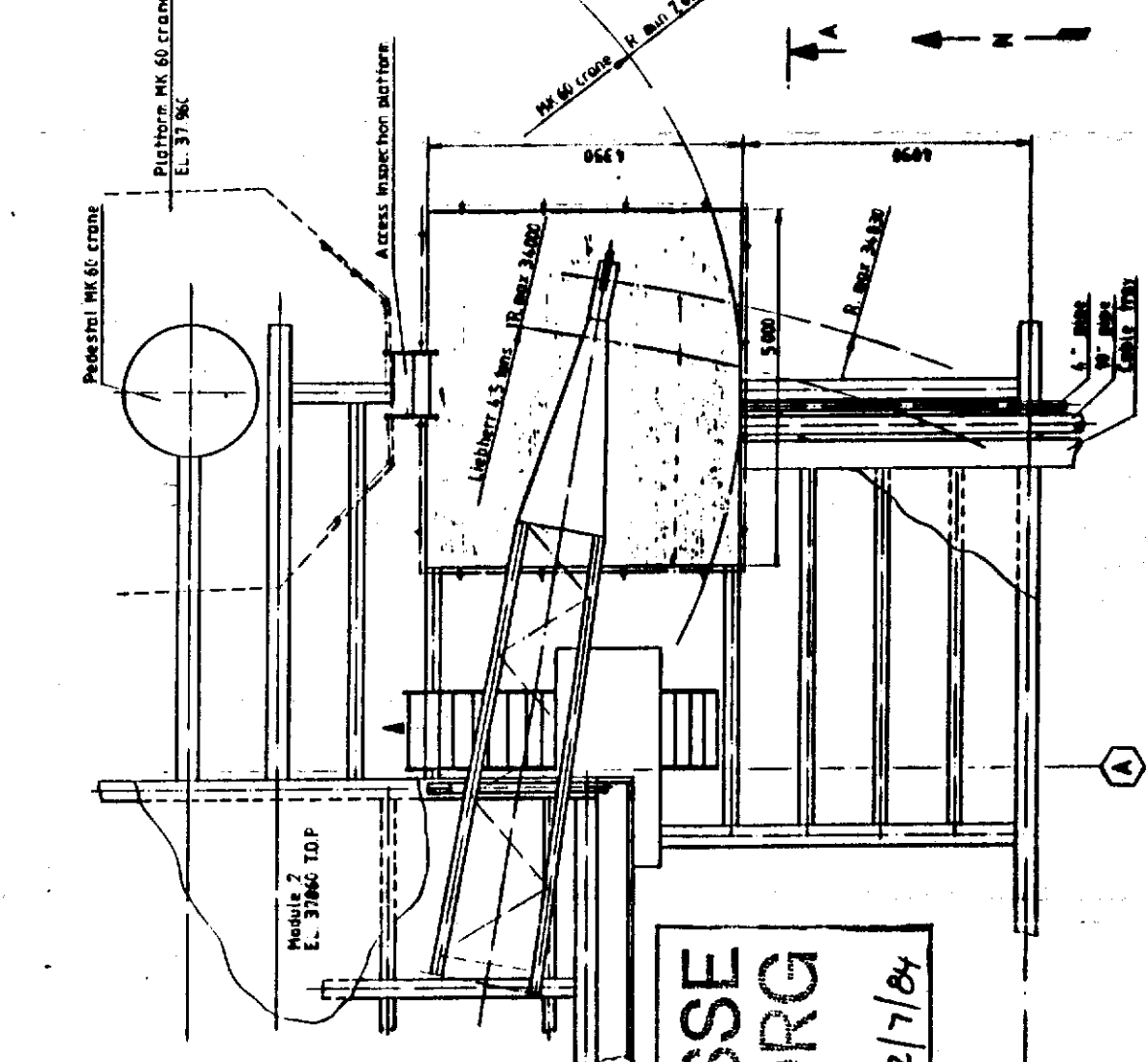
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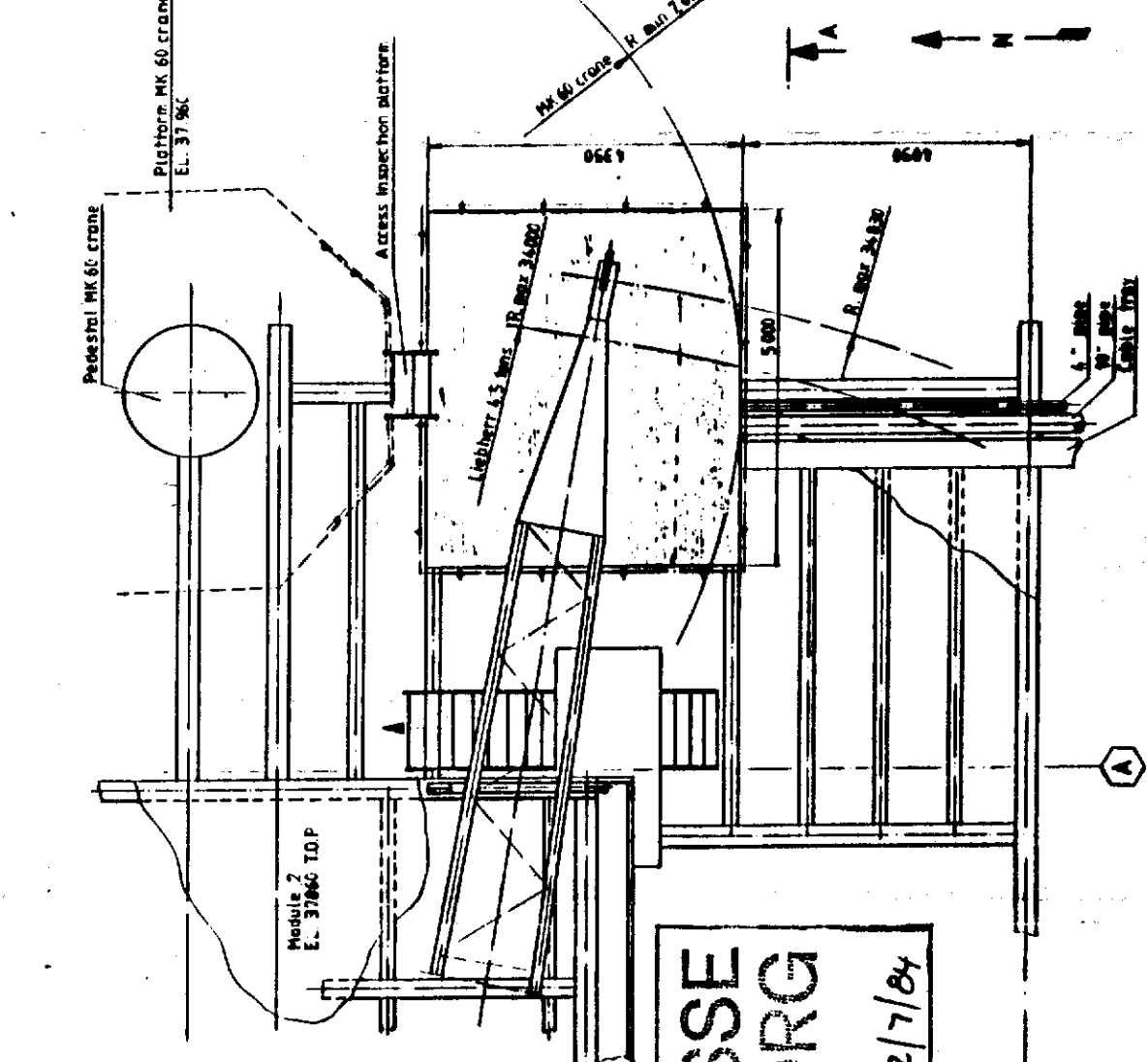
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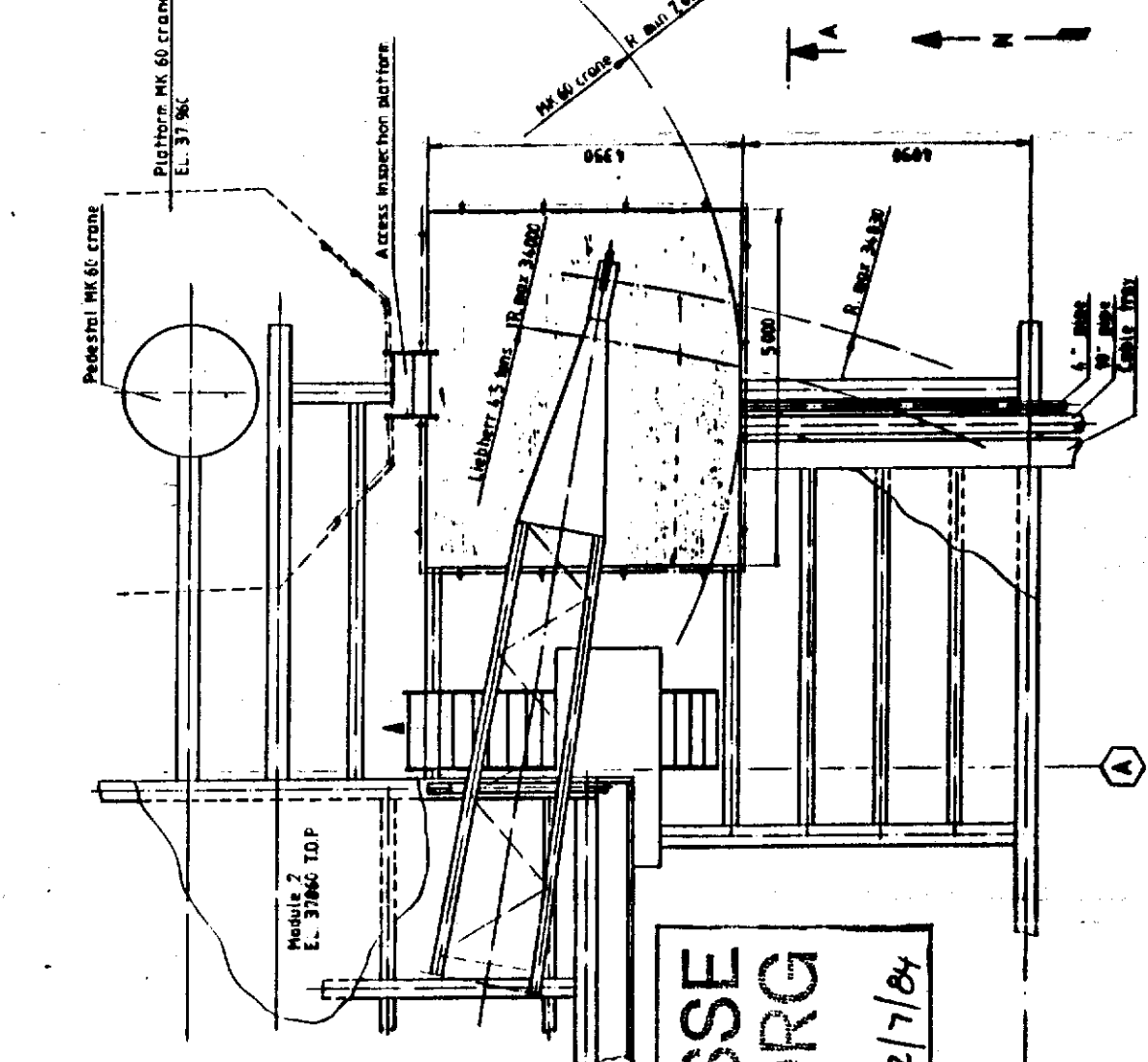
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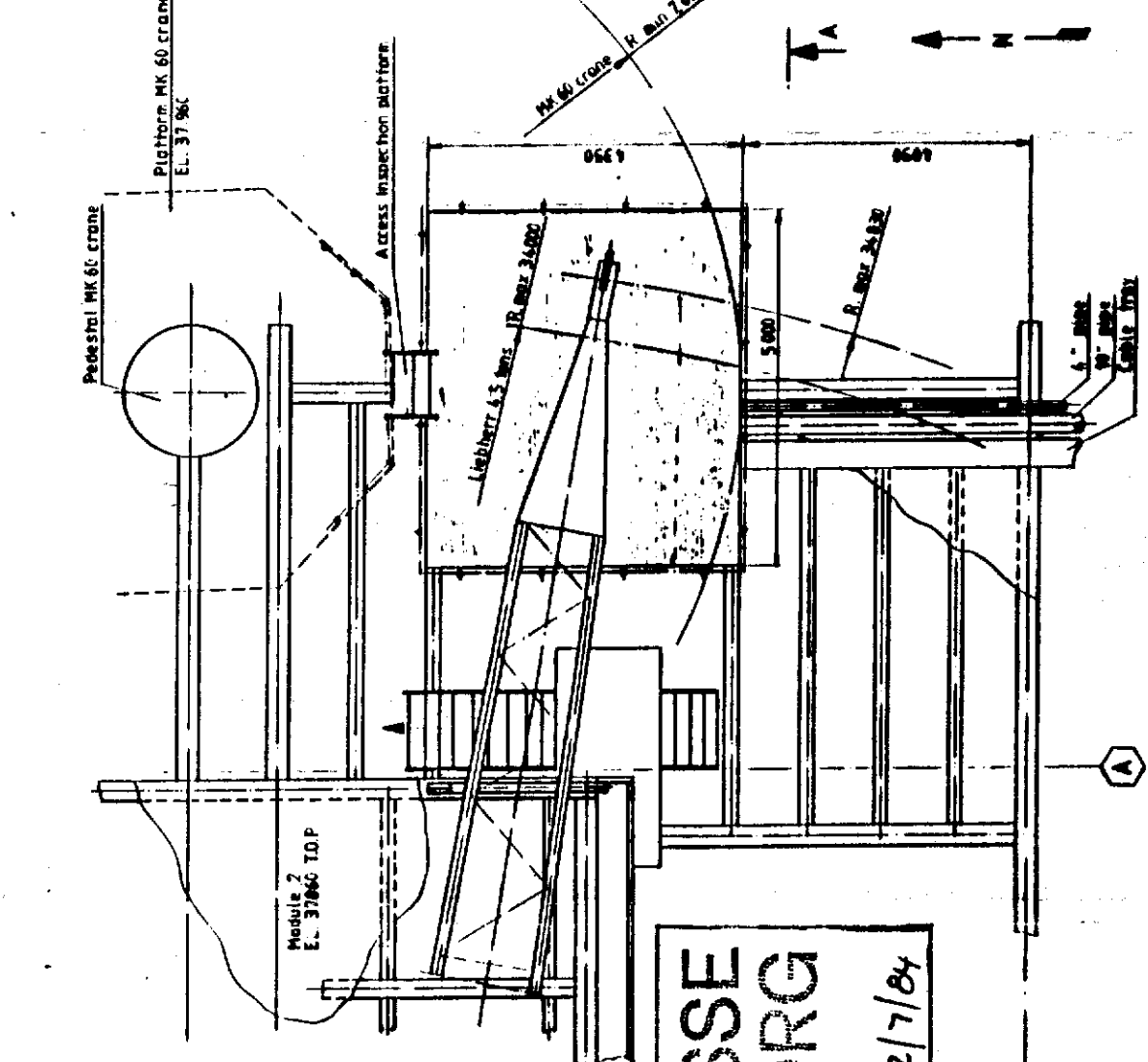
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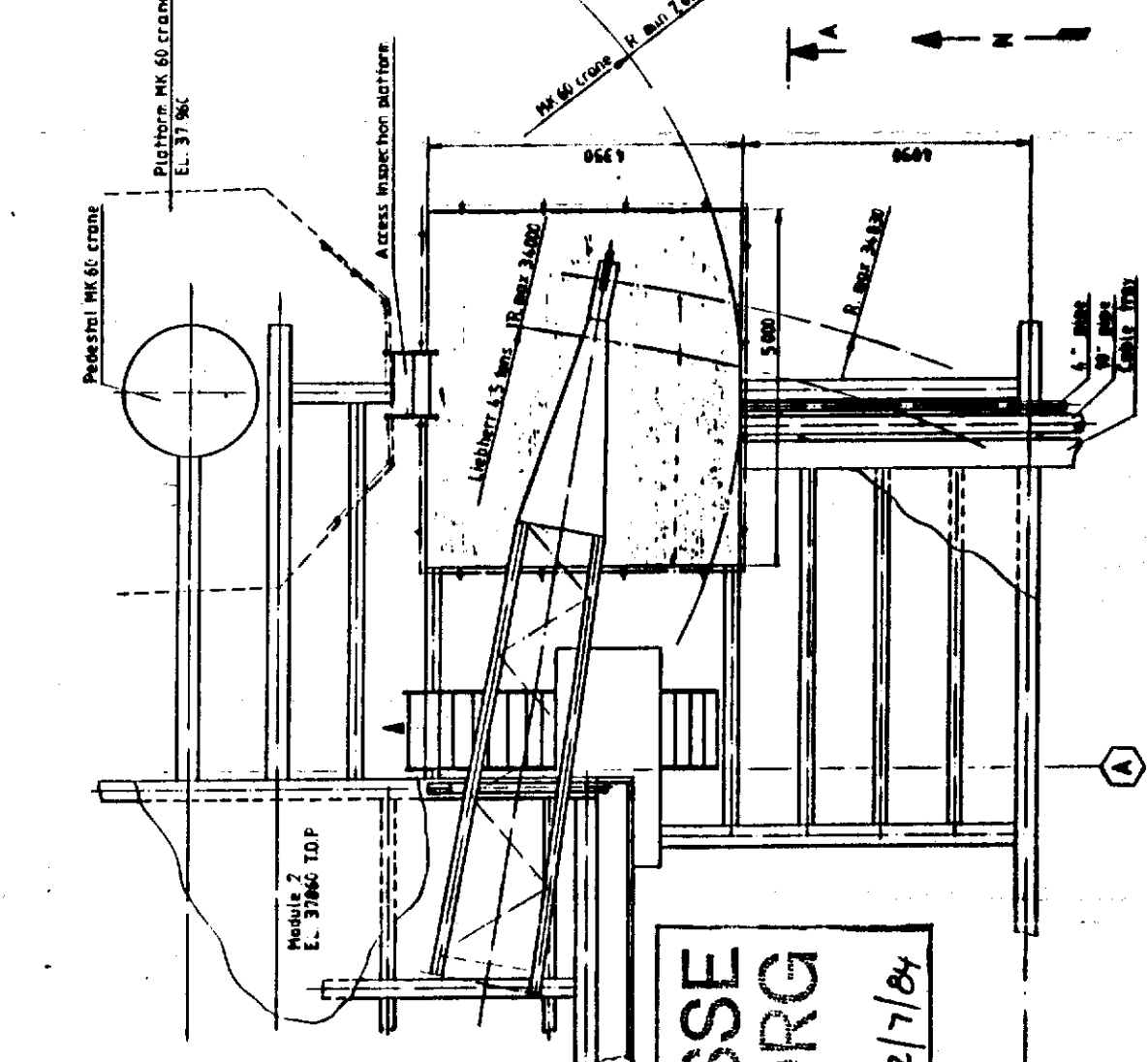
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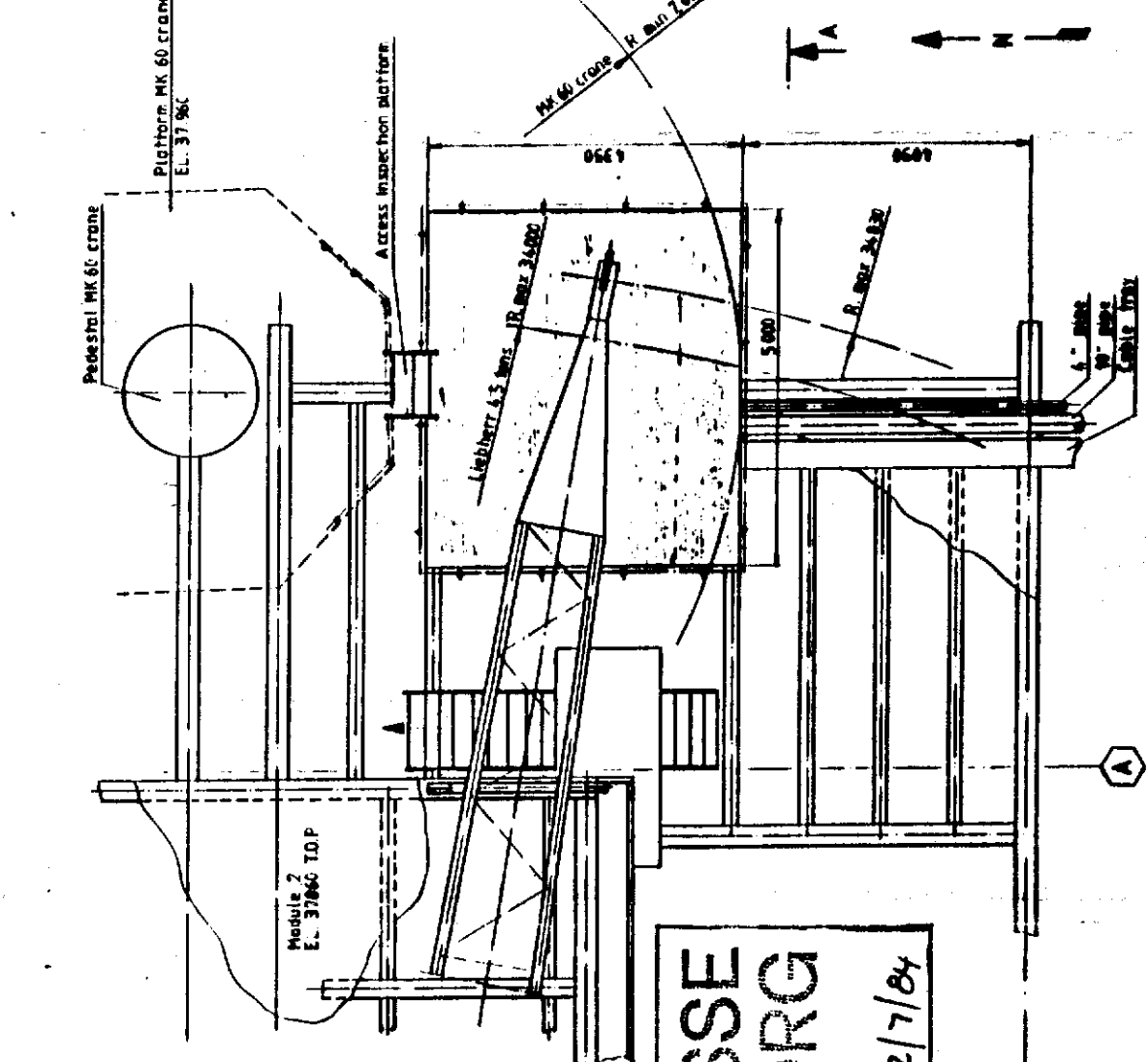
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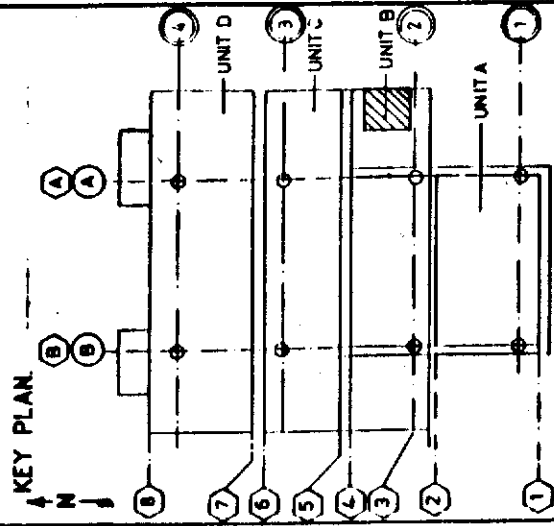
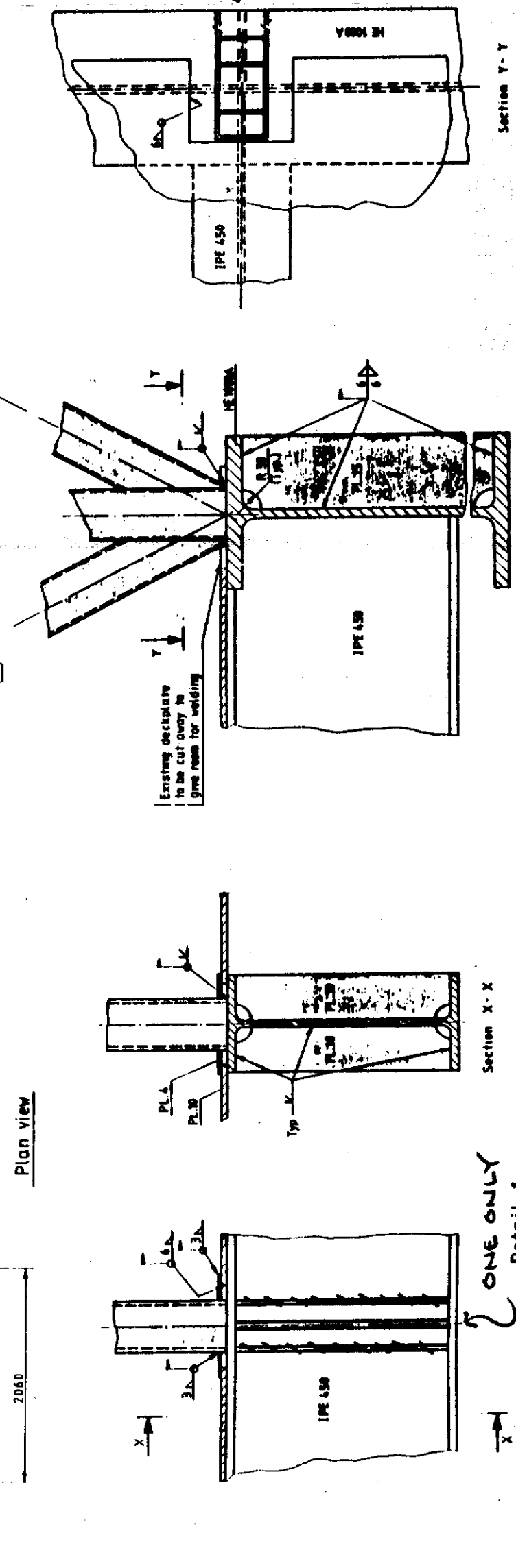
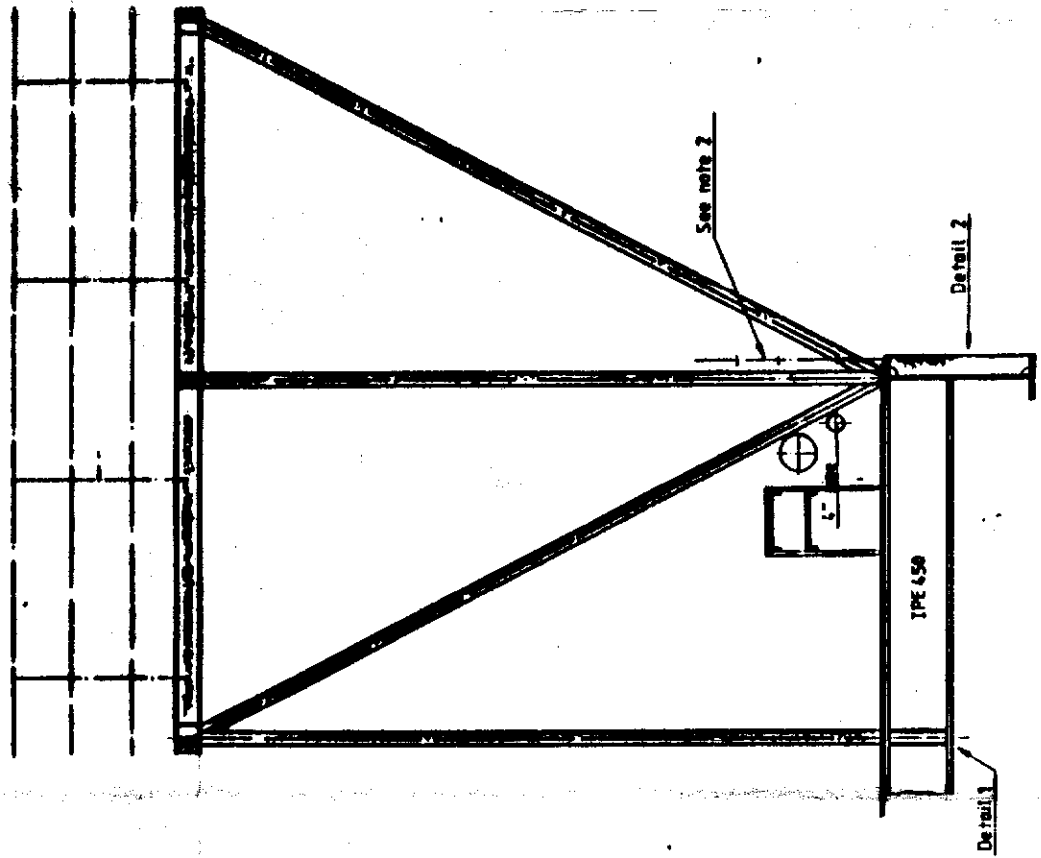
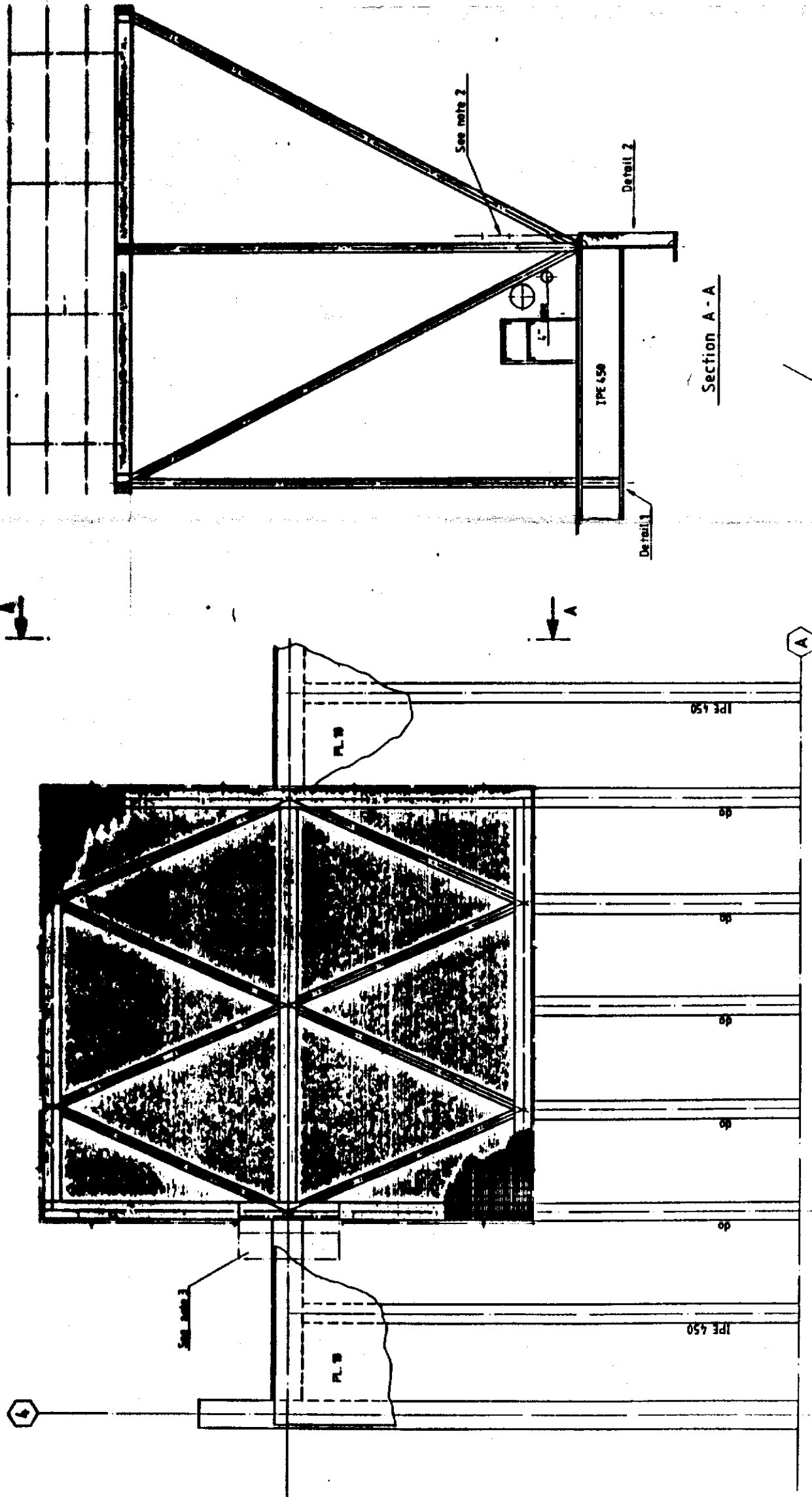


Plate 15	EN17700 S152-3N	0.6m	72 kg
Plate 4	EN17700 RS1 37-2	0.07m	2.2 kg
Plate 10	EN17700 RS1 37-2	0.3 m	23.6 kg
DESIGNATION MATERIAL		TDE (m ²) WEIGHT	
see schedule page 10		see schedule page 10	

APPROVED FOR CONSTRUCTION

Name: O. Berrone

Signature: TB

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100. JENSEN LIFTING AND CONSTRUCTION		1.07

Notes:

For general notes see drawing PP 03 21 20 30 20

Building material to be removed prior to installation of structure and reinforcement.

For notes to inspection platform see drawing PP 03 21 20 30 20

4" plate to be removed from the support prior to welding of column.

How steel should be on drawing.

Reference drawings:

Inspection/Repair platform for Liebherr Crane-16.

General arrangement: PP 03 21 20 30 20

CON-ECOSSE
AS BUILT DRG

SIG. *[Signature]* DATE 2/7/84



	Subject: PULLING OF ELEC, INSTR CABLES DPZ - FOR WIEBHERR CRANE.	Date: 22.04.84.
	Action: CON ECOSSE SUP.	From: ECD SUP M. ORAM.
IM	Info.: DPZ - MAINT SUP. DPZ - MAINT ELEC/INSTR SUP. T. E. HANSEN - ENG.	Ref. No.: PAGE 1 of 4

A SITE SURVEY WAS PERFORMED YESTERDAY OF THE PROPOSED AREAS WHERE CABLE IS TO BE PULLED IN ORDER TO ESTABLISH A DEFINATE & ACCEPTABLE ROUTING PROGRAMME. THE SURVEY WAS PERFORMED BY THE FOLLOWING 3:-

M. ORAM - ECD SUP.

M. BURNES - MAINT ELEC/INSTR SUP.

W. WEIR - CON-ECOSSE.

DETAILED BELOW ARE THE RESULTS & CONCLUSIONS REACHED.

1. FIRE DETECTION (DRWG FF 83.16.05.1247.)

1.1. CABLE N° 2504.

THIS CABLE SHALL ROUTED ON EXISTING CABLE TRAY (IIS) UP TO THE WALL BETWEEN PM3 & PM4. A NEW M.C.T. SHALL BE INSTALLED & THE CABLE SHALL THEN FOLLOW THE SAME ROUTING INTO THE TELEMETRY ROOM THROUGH AN EXISTING M.C.T. *

1.2. CABLE N° 2503.

NO CHANGE - AS PER DRWG. *

(* SEE ATTACHED SKETCH 1 FOR DETAILS.)

NOTE: ANY NEW IIS CABLE TRAY WHICH MIGHT BE REQUIRED MUST BE INSTALLED MIN 250MM FROM ELEC POWER CABLE TRAY.

 elf	Subject:	Date:
	Action:	From:
IM	Info.:	Ref. No.:
	CONTINUED.	

PAGE 2 OF 4

2. ELECTRICAL POWER (DRWG FM 83 23 03 0403.)

2.1 - CABLE N° P2419, P2429, C2270.

THESE CABLES SHALL FOLLOW AN EXISTING ROUTE TO THE M.C.C. ROOM BUT THIS ROUTING SHALL DIFFER SLIGHTLY TO THE ROUTING SHOWN ON THE ABOVE DRWG. A NEW CABLE TRAY (250MM WIDE) SHALL BE INSTALLED BETWEEN THE CRANE PEDESTAL & AN EXISTING RUN. THE 3 CABLES SHALL FOLLOW THE CABLE TRAY ROUTE UPON WHICH A NEW 4X70MM² POWER CABLE HAS BEEN PULLED FOR R.O.V. OPERATIONS. ENTRY INTO THE AIR COMPRESSOR ROOM SHALL BE MADE THROUGH EXISTING M.C.T.'S AVOIDING THE USE OF THE M.C.T. SET ASIDE (MARKED WITH LABEL) FOR THE R.O.V. CABLE. ROUTING UP TO M.C.C. ROOM SHALL BE AS REQUIRED (M.C.C. "A", "B" etc). *

AVOID CONTACT BETWEEN THESE 3 CABLES & THE 4X70MM² R.O.V. CABLES.

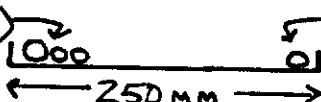
(NOTE: R.O.V. CABLES PULLED BY ANOTHER CONTRACTOR)

(* SEE ATTACHED SKETCH 1 FOR DETAILS.)

 elf	Subject:	Date:
	Action:	From:
IM	Info.:	Ref. No.:
	CONTINUED.	
		PAGE 3 of 4

2.2 - CABLE P2420.

AN ENTIRELY NEW ROUTE IS FORESEEN FOR THIS CABLE. THE CABLE SHALL BE PULLED FROM THE PEDESTAL ALONG THE SAME NEW 250 MM WIDE CABLE TRAY (AS MOUNTED FOR 2.1 CABLES) BUT SHALL BE SEGREGATED AS SKETCHED BELOW: *

(P2419 P2429 C 2270)  (P2420)

← 250 mm →

TIE-IN FOR POWER SUPPLY SHALL BE MADE TO THE 48 V LIGHT JUNCTION BOX (N°2734) LOCATED ALONGSIDE EXISTING CABLE TRAY UPON WHICH 2.1 CABLES SHALL BE PULLED. *

(* SEE ATTACHED SKETCH 1 FOR DETAILS.)

2.3. CABLES P2428 & S2023

P2428 IS INTERNAL CRANE WORK WHILST S2023 CAN BE PULLED ALONG EXISTING TRAY BETWEEN PANEL X9 & EARTH FAULT LAMP LOCATION. (ALSO CRANE

3. MATERIAL SUPPLY.

THE ABOVE RE-ROUTINGS HAS RESULTED IN NO EXTRA MATERIAL REQUIREMENT OVER & ABOVE THAT ALREADY FORESEEN (INCL CHANGE ORDER N°1) WITH THE EXCEPTION

 elf	Subject:	Date:
	Action:	From:
IM	Info.:	Ref. No.:
	PAGE 4 OF 4.	

CONTINUED

OF ONE M.C.T. FOR CABLE N° 2504. CONTRACTOR SHALL UNDERTAKE ALL WORK & SUPPLY ALL NECESSARY MATERIAL (AS PER CONTRACT F215) REQUIRED FOR THE COMPLETION OF THE TASKS.

M. Gamm

ENCLOSURE: SKETCH N°1.

MR 83150

POWER SUPPLIES FOR WEST CRANE DP2

CHANGES ACCORDING TO NEW POWER SUPPLY 220V:

① TRANSFORMER 380/220V TO BE INSTALLED INSIDE CRANE PEDESTAL.

POWER SUPPLY TO TRANSFORMER TO BE TAKEN FROM MCC 'B' CUBICLE 065

② CIRCUIT BREAKER (COD'S N100) TO BE INSTALLED IN CUBICLE 065, SAME AS DESCRIBED INSTALLED IN MCC 'B' CUBICLE 057. (SEE FM 832303 0403 SHT 3 REV. 0)

③ CABLE GLAND TRANSFORMER SECONDARY SIDE TO BE CHANGED FROM PG 42 TO PG 29.

④ NEW CABLE FROM TRANSFORMER SECONDARY SIDE TO CRANE SLIPRINGS BFOH $4 \times 16 \text{ mm}^2$. LENGTH APPROX. 5m.
CABLE NO. P 2428

⑤ CABLE GLAND 220V POWER SUPPLY CRANE SLIPRINGS TO BE CHANGED FROM PG 36 TO PG 29.

⑥ CIRCUIT BREAKER Q01 IN PANEL X9 TO BE CHANGED TO C125 N/D63 WITH SHUNT TRIP.

⑦ EARTH FAULT MONITOR VIGILOHM TM2, ARTIFICIAL NEUTRAL PIS AND RELAY K1 TO BE INSTALLED IN PANEL X9.

⑧ POWER SUPPLY TO VIGILOHM TM2 TO BE TAKEN FROM MCC 'A' CUBICLE A15.

CABLE LENGTH APPROX. 50 M. CABLE NO. P2429.

(SEE DRWG. FF 83 23 03 0403 S&T 9)

⑨ EARTH FAULT SIGNAL (1. LEVEL) TO BE CONNECTED TO 220V EARTH FAULT SIGNALLING.

CABLE LENGTH APPROX. 50 M. CABLE NO. C 2270.

(SEE DRWG. FF 83 23 03 0403 S&T. 8)

● ⑩ EARTH FAULT SIGNAL ALSO TO BE ROUTED TO CRANE CABIN. (SIGNAL: 1. LEVEL)

EARTH FAULT LAMP W/BOX TO BE MOUNTED ON THE LEFT HAND SIDE INSIDE CRANE CABIN.

CABLE LENGTH APPROX 15M. CABLE NO. S2023.

DP2 Liebherr crane installation. page 1/2
Outstanding work defined as the following
Tasks - 1-10.

1 Installation of cable ladder between slip-rings and existing cable ladder on wall inside pedestal (about 600 mm long).

2 Modification of cubicle in 380V MCC including installation of new circuit breaker and tie-in and termination of power cable

3 Installation of transformer in Crane pedestal as per attached sketch included earthing with use of earthing boss

4 Tie-in and termination of cables to supply end of slip rings and transformer in crane pedestal

Note: prior to this task the pulling and attaching of cables must be checked; with regard to fastening method, bending radius ect.

5 Tie in and termination of all cables to consumer end of slip-rings

6 Installation of earth fault relay in Crane including tie-in and termination of 220V control supply for same.

7 Installation of new circuit breaker in crane if a shunt trip unit cannot be installed to existing breaker, including hook-ups of wires between earth fault relay and shunt trip unit.

8 Signalling of earth fault from crane to control room; Cable C2207 which is pulled to MCC room shall be taken back down to compressor room and then pulled further to control room.

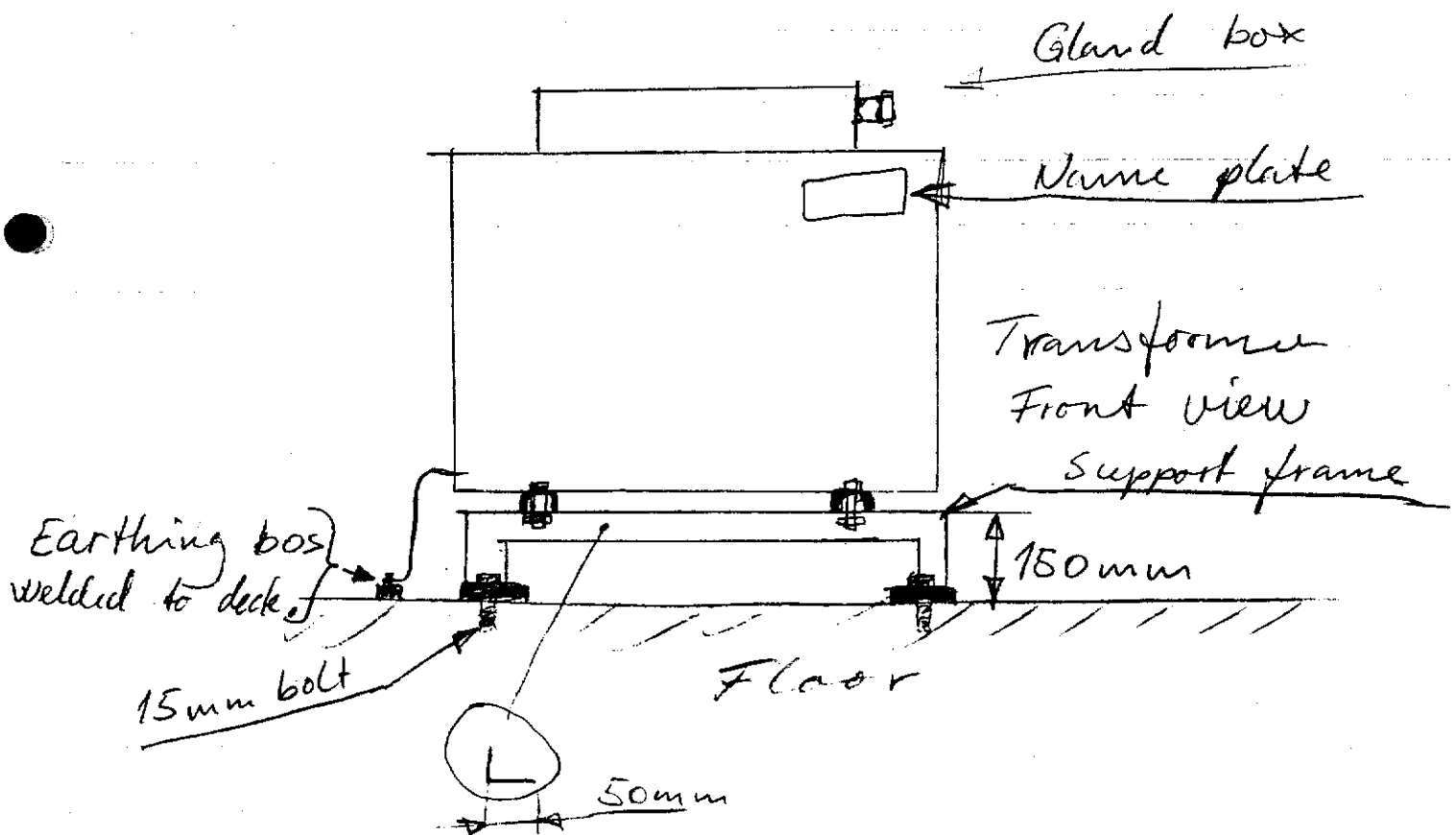
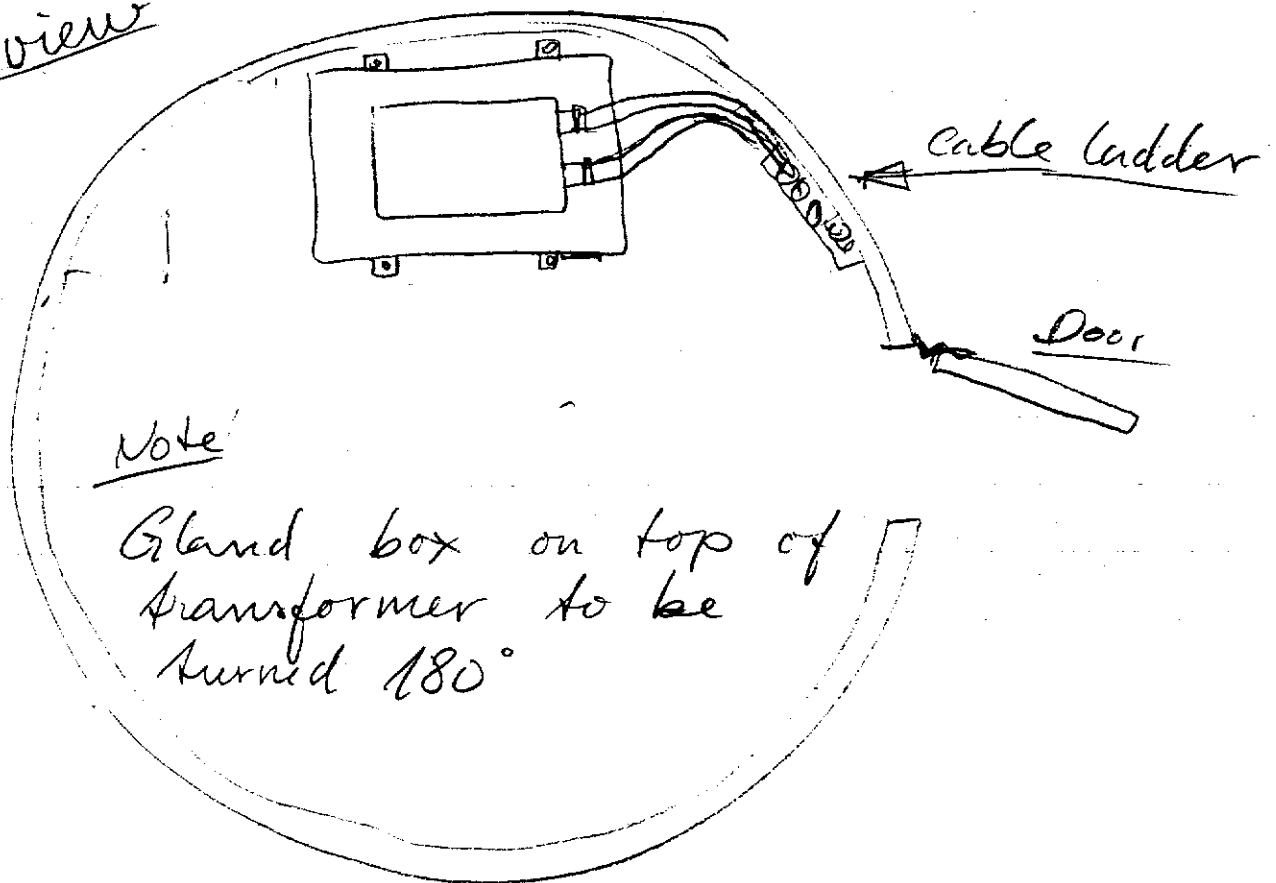
Hold. { AS alarm annunciator the alarm card & window in Box 3 previous Metanol pumps GT 214 A/B may be used, new drawings to be prepared by Engineering Dept. }

9 48 V light in top of crane:
Tie-in for power supply to existing 48V light junction box No. 2734.

10 Fire alarm: Installation of IS-unit in telemetry room, tie-in and termination of cable F2504 (cable is left outside Telemetry room) Pulling of cable F2503 from IS-unit to terminal block FIT 1.
Tie-in and termination of cable F2503 in both ends.

Installation of Transformer

Top view



"As Built" Drawing Transmittal

To: ELF
From: EBIASEN NORSEA Date: 17/5-84

Transmittal No: _____
Platform: OP2
Project: NEW CRANE
P.A.No: _____

Please find attached the following "As Built" drawings for processing:

Dwg.Number	Title
FM 8323030403	220 V 50 HZ AND 48 V DC SUPPLIES
FM 8323030403	CABLE BOUQING
FM 8323030403	POWER SUPPLY, EARTH FAULT MONITORING
FM 8323030403	CABLE LIST
FF 8316051247	BLOCK DIAGRAM, FIRE DETECTION AND HALON SYSTEM
FF 8316051247	CABLE SCHEDULE
FF 8316051247	BLOCK DIAGRAM FIRE DETECTION AND HALON SYSTEM
FF 8316051247	INTERCONNECTION PRINCIPLE
FF 8316051247	HALON RELAY BOX
FF 8316051247	FIRE ZONE Z-125
FM 8323030403	WIRING DIAGRAM EARTH FAULT MONITORING
FM 8323030403	— " — " — " — " — " — " —
MR 83150	Megger test

Please complete section below, return copy to E & P Specialist offshore.

"As Built" Transmittal Receipt

This is to confirm that I/We have received the drawings sent with
Transmittal No:

Signed: Date:

File in Platform "As Built" Book.

MCC.B CELL065

40VDC. DISC. 10 FA. AND 1000. 0000

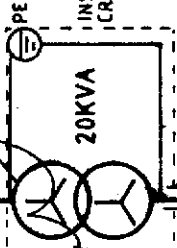
380V 50HZ



MERLIN GERIN
COD/S N/100 F
35A NEW
SETTING
35A
VP 2419
UP 2419

As Built
17/5-84

P2419
BFOH 4x25mm²

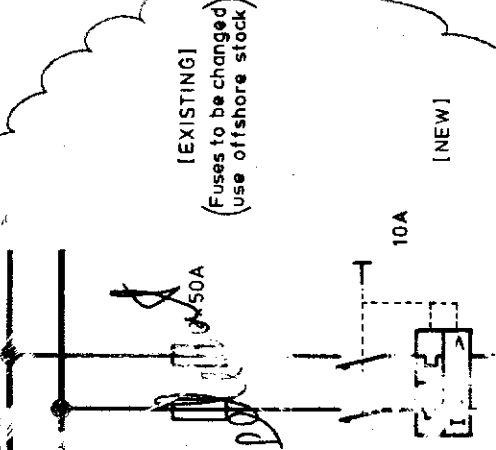


P2428
BFOH 4x16mm²

TO CRANE SLIPRINGS
(SEE SHT. 4 AND VENDOR DRWG. 6662-600000.031-0)

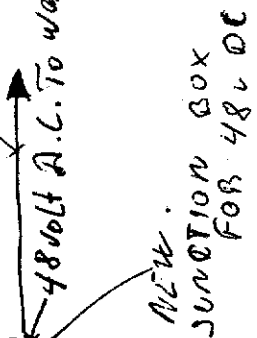
AS BUILT
29-5-84
C.S.D.
Date: _____
Sign: _____

48VDC



MERLIN GERIN
F32
10A

E2-8



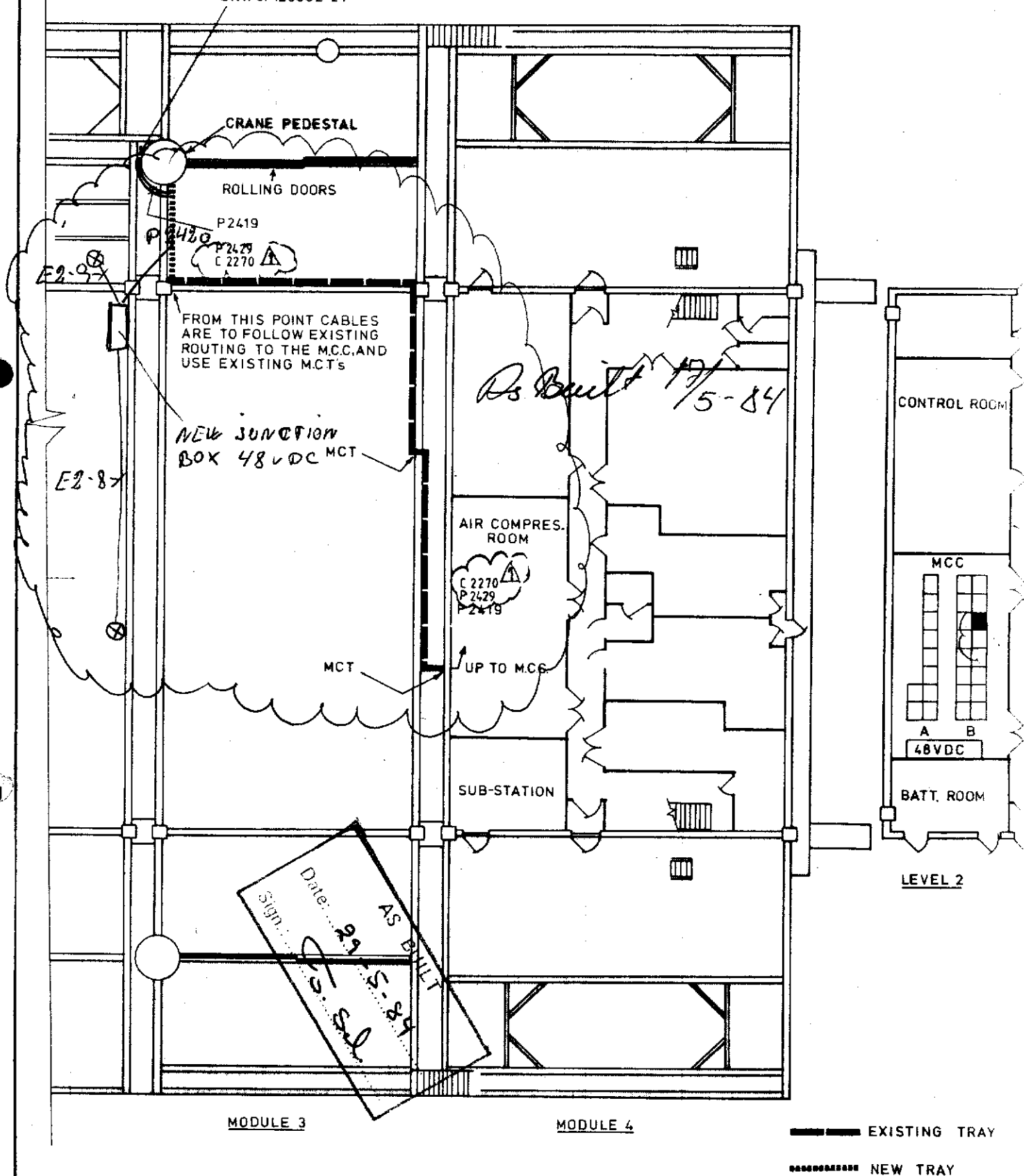
E2-9

As Built
17/5-84

TO CRANE SLIPRINGS
(SEE VENDOR DRWG. 6662-600.00.031-0)

SEE DWG FM 83 2303 0403
CABLE ROUTING

CABLES TO LOOP AROUND PEDESTAL (PROTECTED IN M.S. TUBE)
AND COME UP THROUGH THE DECK PLATE ADJACENT TO THE
OPENING PROVIDED IN THE NEW CRANE PEDESTAL (SEE VENDOR
DRWG. 126662-2)



1	29/3-84	NEW POWER SUPPLY 220V	ER	RA
0	JUNE 83	First Issue	A.L.	RA
Date	DESCRIPTION		by	acc

Contractor

elf
aquitaine
norge a/s
P.O. Box 168
4001 Stavanger



Job no.
MR 83150
Scale

Installation **DP 2** System **E**

CABLE ROUTING

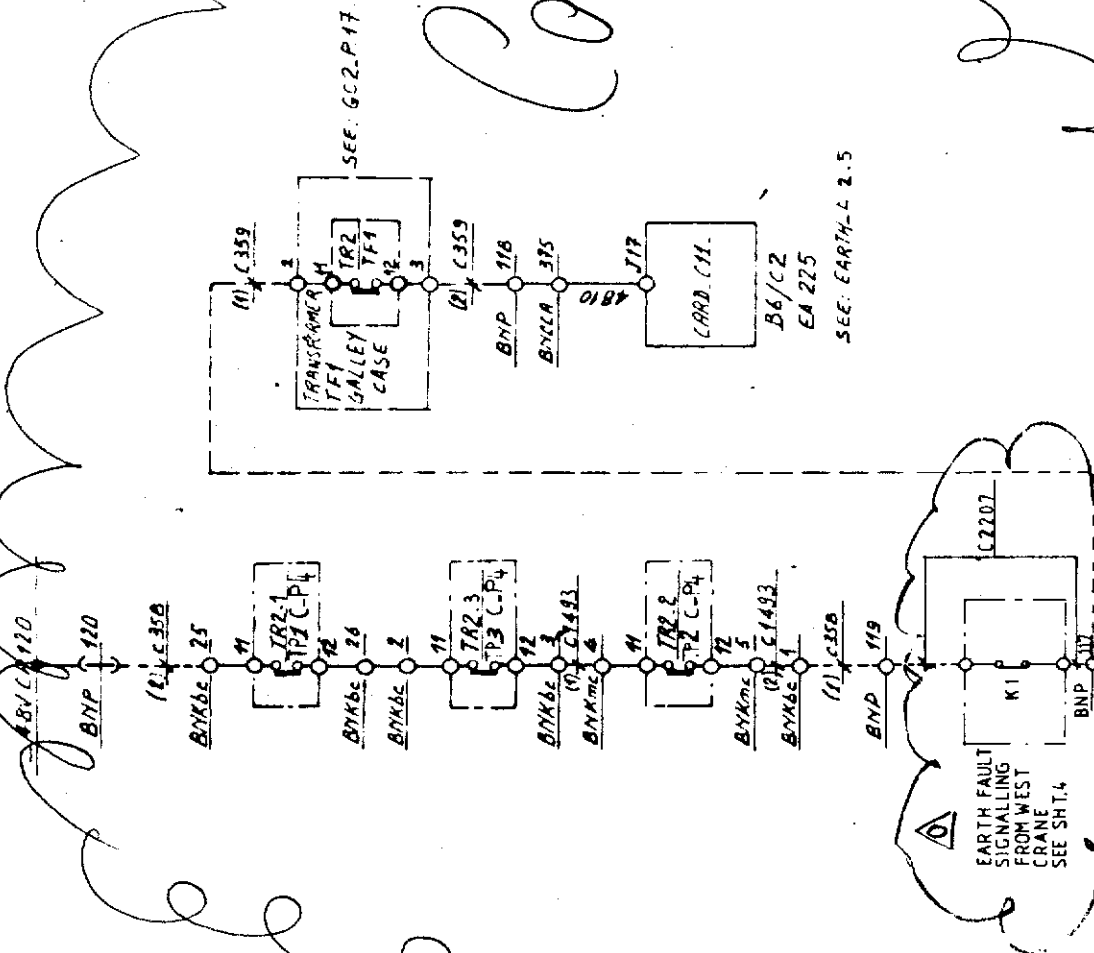
Drawg. no. **FM 83 23 03 0403**

FRIGG FIELD

220V AC EARTH FAULT

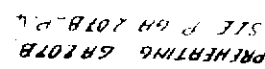
On line Mr. Perwall

AS BUILT
Date: 29-5-84
Sign: G.S.D.



NOTE - ORIGINAL DRAWG. NO. FF63 2302 1002 SHT 66

6/4 84	First issue NEW POWER SUPPLY 220V AC DESCRIPTION by app	Contractor elf aquitaine norge as P.O. Box 168 4001 Stavanger	Installation DP 2 Job no. MR83150 Scale ~ Drwg no. FM 83 23 03 0403	System ELECTR. EARTH FAULT SIGNALLING 220V AC
--------	---	--	--	--



Contractor _____

Cable	Type	Voltage	Frequency	From	To	Grand	Loth.	Remarks
P2419	BFOH 4x25 ²	380 V	50 HZ	SUPPLY	MCC B' CELL 065		50 M	TRANSFORMER 380V/220V 20KVA
P2420	BFOH 2x16mm ²	48VDC	SUPPLY		48VDC DIST'B CELL 6		PG21 50M	WEST CRANE SLIDINGS
P2428	BFOH 4x16mm ²	220V	50 HZ	SUPPLY	TRANSE 380V/220V		5M	" "
P2429	RHOH 2x2.6mm ²	"	"	"	MCC A CELL A15		50M	EARTH FAULT MONITORING
S 2023	"	"	SIGNALING		EARTH FAULT MONITOR		20M	EARTH FAULT LAMP CRANE CABIN
C 2270	"	48VDC	"	"	"		50M	- " - SIGNAL ROOM
As Built 12/5-84								
Cable removed. 27/5 84 As Built 27/5-84								

Contractor

elf aquitaine norge as

FRIGG FIELD

Draw no FM 83 23 03 0403

Job no MR 83/50

Scale

System ELECT DP 2

CABLE LIST

Page 1 of 6

29/87 NEW POWER SUPPLY

DESCRIPTION

By AP

ELP

AS BUILT

Date: 27-5-84

Sign: [Signature]

AS BUILT

Date: 99-5-89

Sign: [Signature]

Cable Ref.	Cable No.	Type Size	Function	Voltage	From	Brand	1st Lgh.	Remarks
F	2503	BFOH 250V 2x2x1.5"	FIRE DETECTION/SUPPLY	24V	FOREX FIRE PANEL TERMINAL T-17 1		10	CABLES INSTALLED BY LICBERR TERMINALS & TAGGING BY CONTRACTOR
F	2504	BFOH 250V 1x2x1.5"	FIRE DETECTION	"	CASI BT UNIT		40	CABLES INSTALLED BY LICBERR TERMINALS & TAGGING BY CONTRACTOR
F	2505		FIRE DETECTION	"	SLIP RING			
F	2506		FIRE DETECTION	"	SD-125-1			
F	2507		FIRE DETECTION	"	SD-125-2			
F	2508		FIRE DETECTION	"	SD-125-3			
F	2509	BFOH 250V 1x2x1.5"	FIRE ALARM/CONTROL	"	SD-125-4		5	CABLES INSTALLED BY LICBERR TERMINALS & TAGGING BY CONTRACTOR
F	2510	BFOH 750V 4x1.5"	FIRE CONTROL/ALARM	220V	H-110		6	CABLES INSTALLED BY LICBERR TERMINALS & TAGGING BY CONTRACTOR
F	2512		FIRE CONTROL/ALARM	"	H-110			
F	2513		SUPPLY	"	Y-9			
F	2514		FIRE ALARM/VENT. CONTR.	110V	Y-9			

AS BUILT 22/5-84

AS BUILT
Date: 22-5-84
Sign: C. S. S. S.

CABLE SCHEDULE

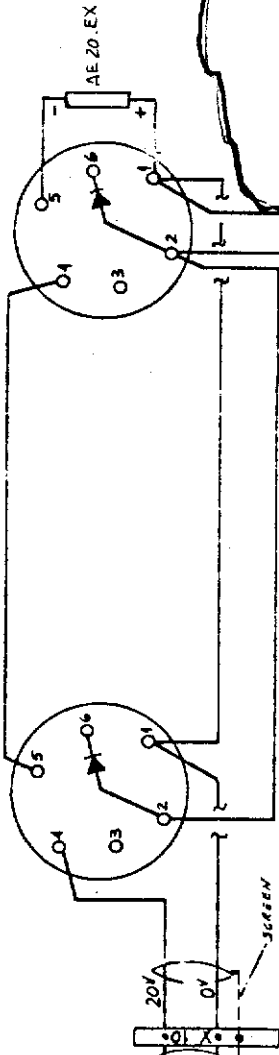
aquatime
elf
force as
elf

83-16-05-1247

13.10.83

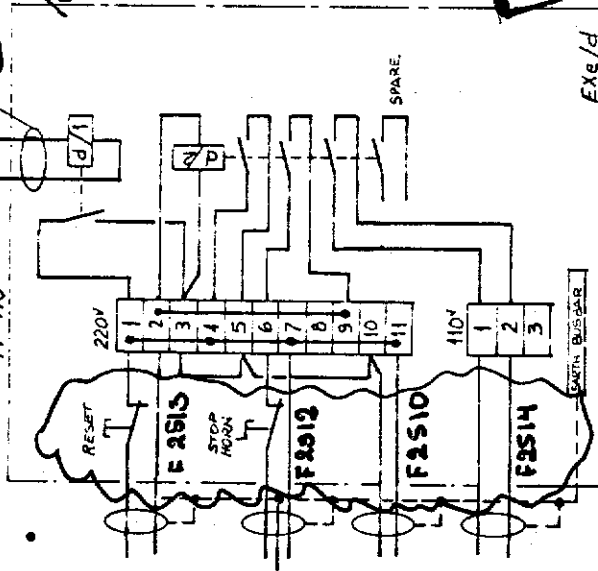
1ST DETECTOR --- END OF LOOP

FROM PLATFORM (CASI RT. UNIT)

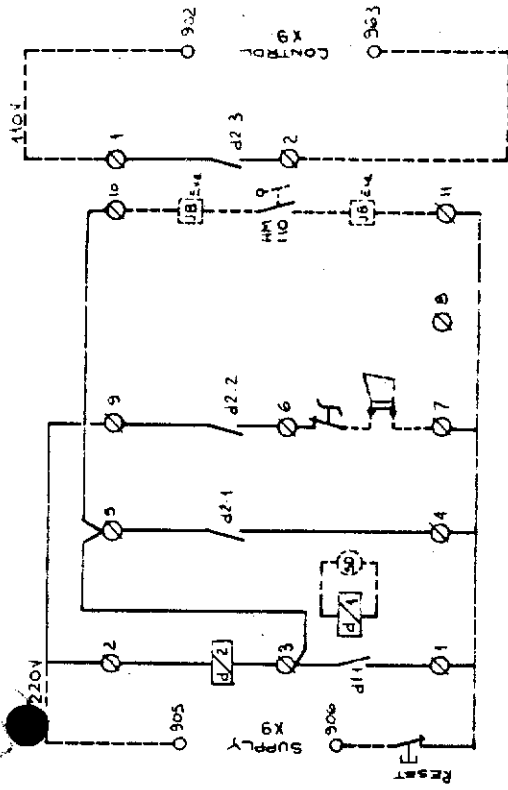


F2509
SCREEN/BRAID
ISOLATED

H-110



REFERENCE IS MADE TO EARTHING SPEC.
NA GR. ELE. 010.
FOR CONNECTION OF CABLE SCREEN,
BRAID AND EARTH WIRE WHERE APPLICABLE
(ref. Exd bell and d20r switch)



NOTE!

- d1 - reed relay (high impedance)
 - max. 6V, 30 mA, fast acting
 - Exd
 - Contact rating: ref. d2 below
- d2 - fast acting relay
 - Low consumption, 220V AC coil (with diode)
 - Contact rating: 110V DC / 2A minimum
 - Exd

AS BUILT
Date: 27.5.84
Sign: T. S.

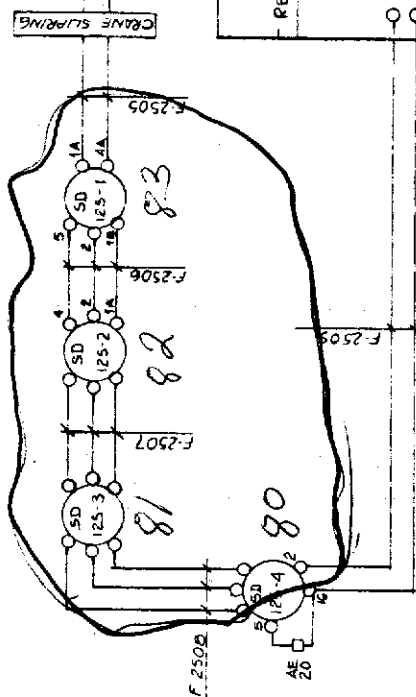
rev	data	DESCRIPTION
0	20.03	first issue



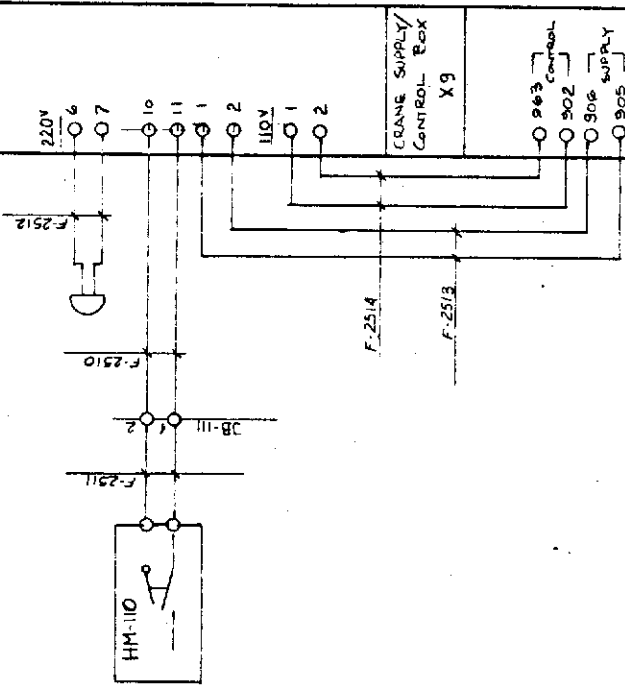
elf aquitaine norge a/s postboks 4001 stavanger	
Installation	System
DP.2	FIRE DETECTION.
INTERCONNECTION PRINCIPLE	
HALON RELAY BOX	
LIEBHERR CRANE	
Job no.	83150
Scale	1/1
Drawg. no.	FF 83-16-05-1247
Rev	0
FF	6

FIELD

NB! LOCAL LOOP PARTLY INSTALLED BY
LIEBHERR -
SEE THIS DWG. SHEET 2



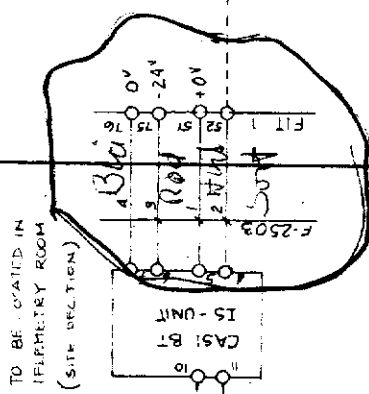
H-110
HALON
RELAY BOX



REF.
LIEBHERR DWG:
6602-000-00-
00-063-0.

REF. DWG:
FF 83-16-05-1215
SMT-1C

CONTROL ROOM



TO BE LOCATED IN
FIRE DETECTION ROOM
(SITE DETECTION)

CONNECTION
ZONE MOD. Z-125

MATRIX
CARD
M 2

1ST
THRESHOLD

51 52 REF. DWG:
FF 83-16-00-1060
SMT: 63

PANEL
FAULT

51 52 REF. SMT.

AS BUILT
Date: 28-5-84
G.S. 82

THIS DWG. WILL BE
INCLUDED IN LOOP
DIAGRAM,
FF-83-16-00-1060
SMT: 5/105
FOLLOWING "AS BUILT"

FIRE PANEL INTERNAL
WIRING/ALARM/CONTROL

REF. DWG:
FF 83-16-05-1215

DRILLING ALARM PANEL

FIRE DETECTION UNIT

INPUT/OUTPUT FIELD

OUTPUT RELAY

FIRE

elf
aoutaine
norge as

elf

Job no.
Scale
Draw no.

FF 83-16-05-1247
LIEBHERR CRANE
FIRE ZONE Z-125
DP 2
System

Date
Description
First issue
By
Rev

FROM TRANSFORMER
SEE SHT. 3

P 24.28
5
FOH 4x16"

CRANE
SLIPRINGS

EX

PE

X9

1 Amp.

P15

SHUNT TRIP

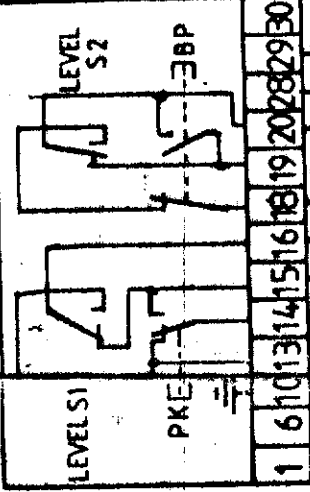
FIXED 500 A
RANGE: 44-63 A
SETTING: 53 A

NEW CIRCUIT BREAKER
TYPE: COMPACT C125N
(15)

SEE VENDOR DRWG.
6662 600 00 00 031-01

TM2
PK: HORN SILENCER
BP: NO TRIP AND RESET PUSH BUTTON
LEVEL S1: SIGNALLING EARTH FAULT
ADJUSTABLE FROM 10 TO 150 kΩ
LEVEL S2: TRIPPING CIRCUIT BREAKER Q01
ADJUSTABLE FROM 2.5 TO 20 kΩ
SETTING S1 AND S2: 100 mA - 2.2 kΩ

VIGILOHM TM2 (17)



220V AC SUPPLY
FROM MCCAIAIS
SEE SHT. 8

P 24.29
19
RHOH 2x2.5

C 2270
19
RHOH 2x2.5

(24)

(24)

(24)

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(24)

(24)

(24)

TERMINAL NOS. TO
BE SELECTED ON
SITE.

NORMALLY CLOSED
(NORMAL CONDITIONS)

K1 (23)

AS BUILT

Date: 29-5-84

Sign: S.S.

NOTE: TM2, P15 AND K1 TO BE MOUNTED IN PANEL X9

See new drawing: FM 8323030403
Wiring diagram for earth fault monitoring panel

WIRING DIAGRAM
Job no. MR83150
Scale 1:1
Installation DP 2
ELEI

aquitaine
aquitaine a/s
P.O. Box 168
4001 Stavelange

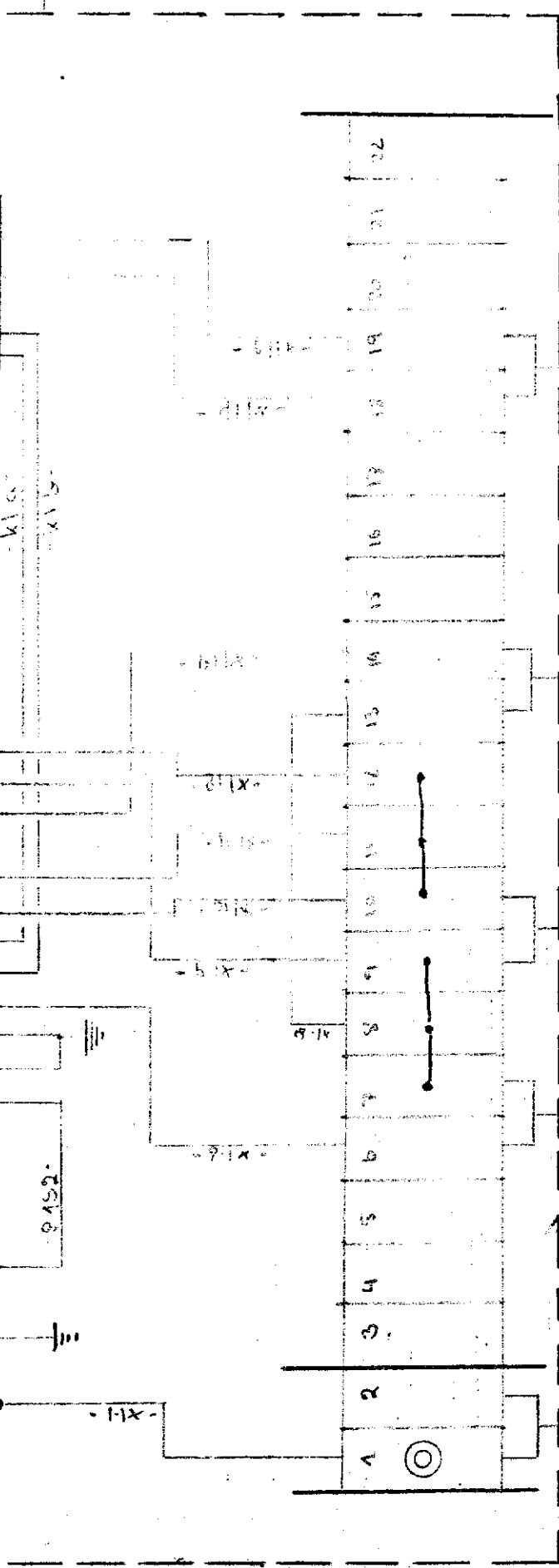
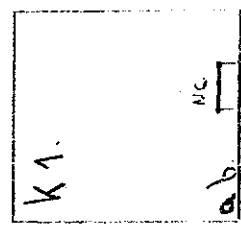
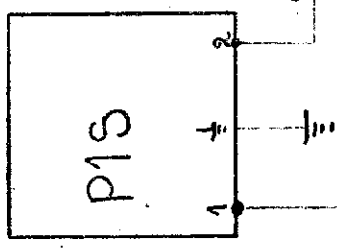
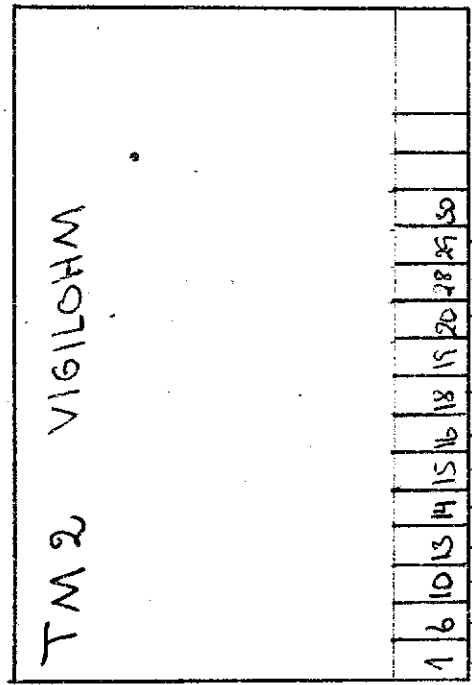
FRIGG FIELD
FM 83 23 03 0403

Contractor

29/3-84 First issue NEW POWER SUPPLY 220V ER 84

DP2
ELEC.
Wiring Diagram and General
Cable Jack Mounting
FM 83250304103

AS BUILT
29.5.84
C. S. S. S.



S9023
P2409
S2270