



elf aquitaine norge a/s

CDP 1

**SUBSEA
AS BUILT FILE**

VOLUME 6

5. UTILITY RISERS

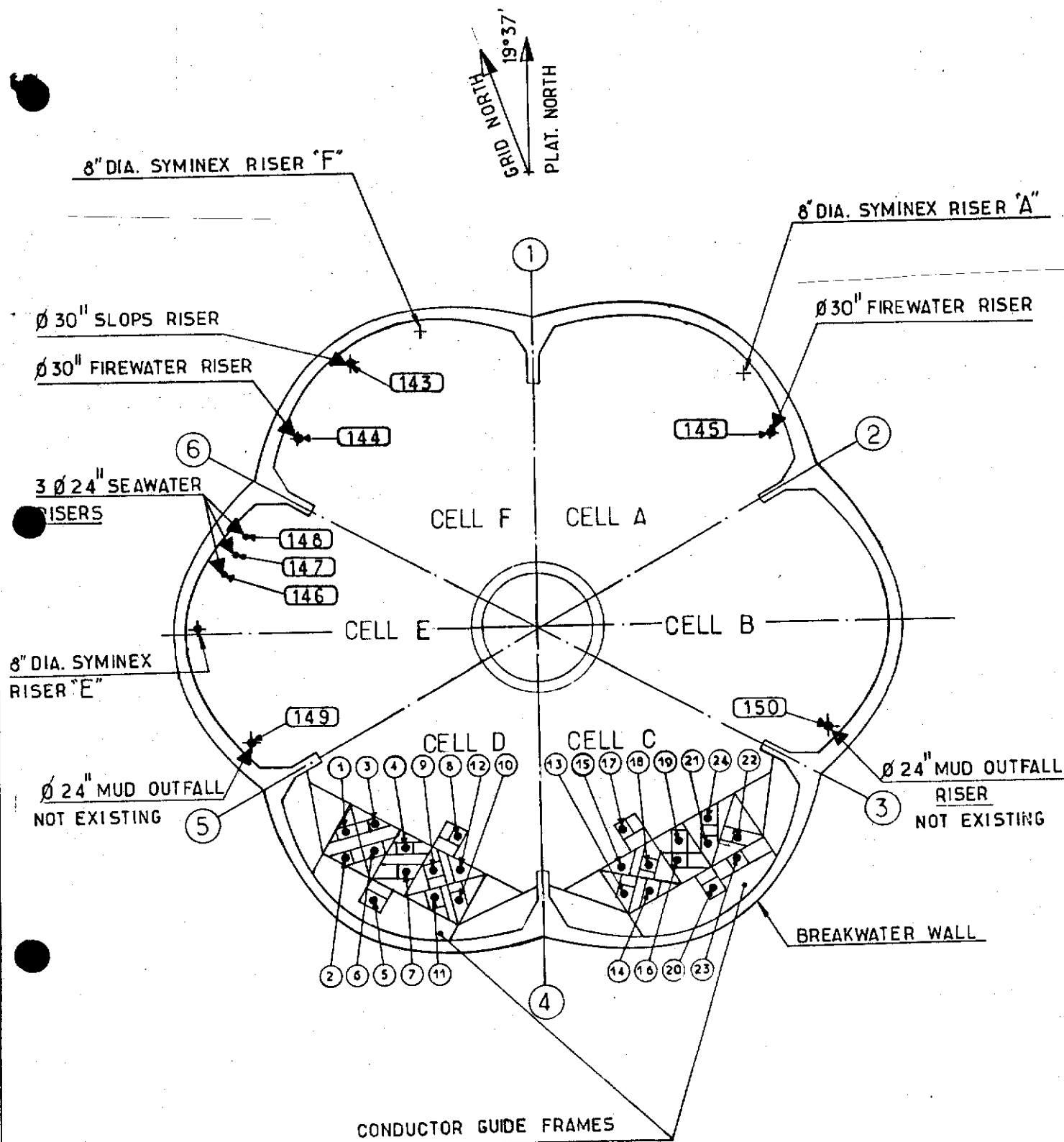
DRAWING TITLE	E.A.N DRAWING No
UTILITY RISERS - GENERAL LAYOUT	FF 91 36 35 - 1505
UTILITY RISERS - GENERAL ELEVATION	FF 91 36 35 - 1506
5.1. <u>SLOP RISER N° 143 CELL "F"</u> UPPER SUPPORT LOWER SUPPORT	 FF 91 36 35 - 1507 FF 91 36 35 - 1508
5.2. <u>FIRE WATER RISER N° 144 CELL "F"</u> UPPER SUPPORT LOWER SUPPORT INTERMEDIATE SUPPORT : . Gle ISOMETRIC . SUPPORT DTL. 1 . CLAMP DTL. 2	 FF 91 36 35 - 1509 FF 91 36 35 - 1510 FF 91 36 35 - 1511 FF 91 36 35 - 1512 FF 91 36 35 - 1513
5.3. <u>FIRE WATER RISER N° 145 CELL "A"</u> UPPER SUPPORT LOWER SUPPORT INTERMEDIATE SUPPORT : . Gle ISOMETRIC . SUPPORT DTL. 1 . CLAMP DTL. 2	 FF 91 36 35 - 1514 FF 91 36 35 - 1515 FF 91 36 35 - 1516 FF 91 36 35 - 1517 FF 91 36 35 - 1518

5. UTILITY RISERS

DRAWING TITLE	E.A.N DRAWING No
5.4. <u>SEA WATER RISERS N° 146-147-148 CELL "E"</u> UPPER SUPPORT LOWER SUPPORT INTERMEDIATE SUPPORT : . Gle ISOMETRIC . SUPPORT DTL. 1 . CLAMP DTL. 2	FF 91 36 35 - 1519 FF 91 36 35 - 1520 FF 91 36 35 - 1521 FF 91 36 35 - 1522 FF 91 36 35 - 1523
5.5. <u>MUD OUTFALL RISER N° 150 CELL "B"</u> UPPER SUPPORT LOWER SUPPORT	FF 91 36 35 - 1524 FF 91 36 35 - 1525
5.6. <u>MUD OUTFALL RISER N° 149 CELL "E"</u> UPPER SUPPORT LOWER SUPPORT	FF 91 36 35 - 1526 FF 91 36 35 - 1527
5.7. <u>BACKING PLATE OF SUPPORTS</u> UPPER SUPPORT RISERS 146-147-148 UPPER SUPPORT RISERS 143-144-145 UPPER SUPPORT RISERS 149-150 LOWER SUPPORT RISERS 143-144-145-149-150 LOWER SUPPORT RISERS 146-147-148	FF 91 36 35 - 1528 FF 91 36 35 - 1529 FF 91 36 35 - 1530 FF 91 36 35 - 1531 FF 91 36 35 - 1532

5. UTILITY RISERS

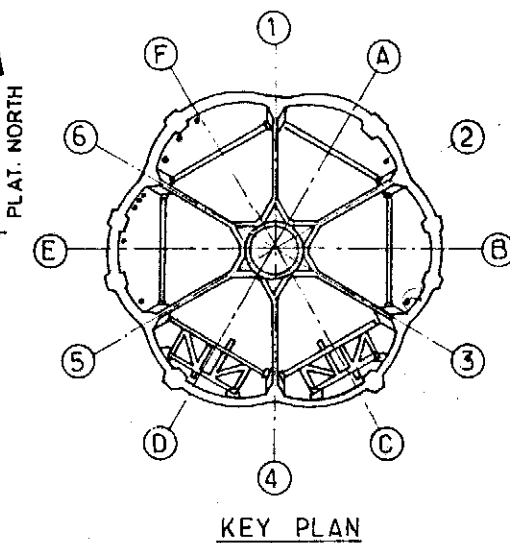
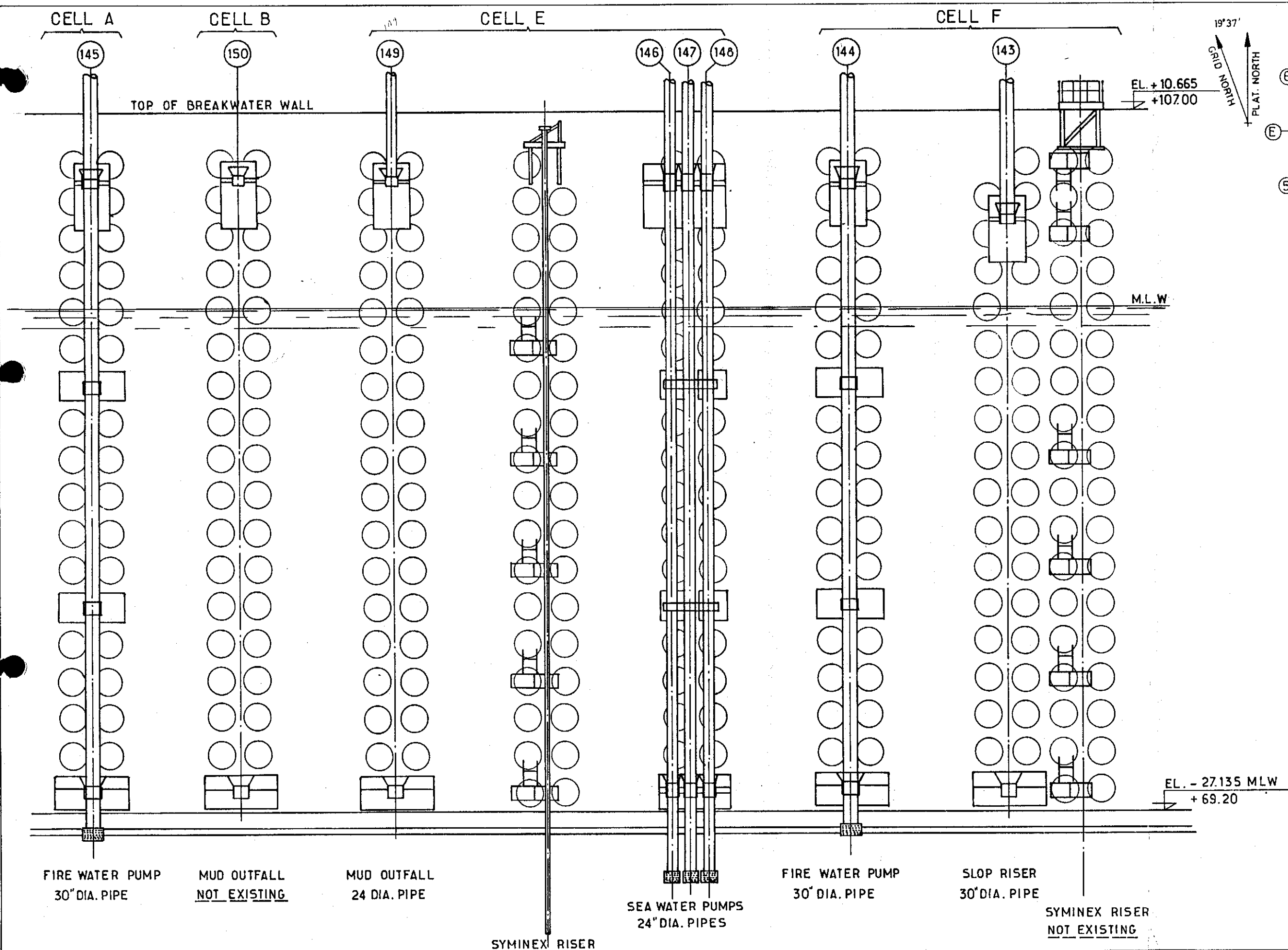
DRAWING TITLE	E.A.N DRAWING No
5.8. <u>BASE PLATE OF SUPPORTS</u> UPPER SUPPORT RISERS 146-147-148 UPPER SUPPORT RISERS 143-144-145-149-150 LOWER SUPPORT RISERS 146-147-148 LOWER SUPPORT RISERS 143-144-145-149-150 5.9. <u>MISCELLANEOUS</u> INLET SCREEN FOR RISERS N° 144 - 30" DIA. INLET SCREEN FOR RISERS N° 145 - 30" DIA. INLET SCREEN FOR RISERS N° 146-147-148-24"DIA. RESERVED RESERVED RESERVED RESERVED RESERVED	FF 91 36 35 - 1533 FF 91 36 35 - 1534 FF 91 36 35 - 1535 FF 91 36 35 - 1536 FF 91 36 35 - 1537 FF 91 36 35 - 1538 FF 91 36 35 - 1539 FF 91 36 35 - 1540 FF 91 36 35 - 1541 FF 91 36 35 - 1542 FF 91 36 35 - 1543 FF 91 36 35 - 1544



NOTES

FOR SYMINEX RISERS SEE SECTION 6
FOR CONDUCTOR GUIDE FRAME SEE SECTION 4

elf aquitaine norge a/s p.o. box 168 4001 Stavanger				elf		Job no.	Installation CDP 1	System UNDERWATER
1	12 83	UPDATED	ILC	ILC		Scale	UTILITY RISERS GENERAL LAYOUT	
Rev.	Date	DESCRIPTION	by	app.		Dwgr. no.	FF 91-36-35-1505	Rev. 1
Contractor JVD 1029 50-01				FRIGG FIELD				Sheet

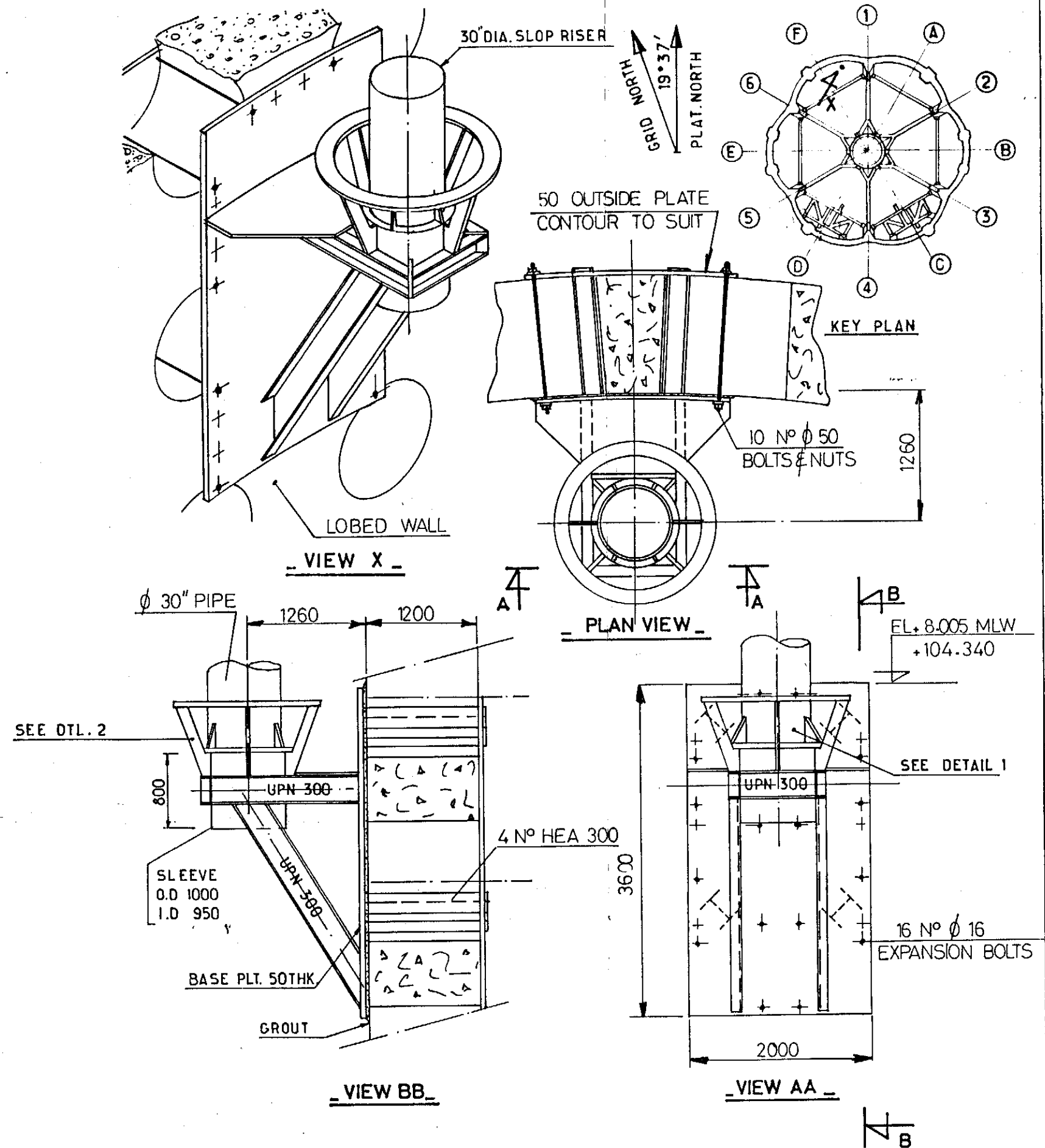
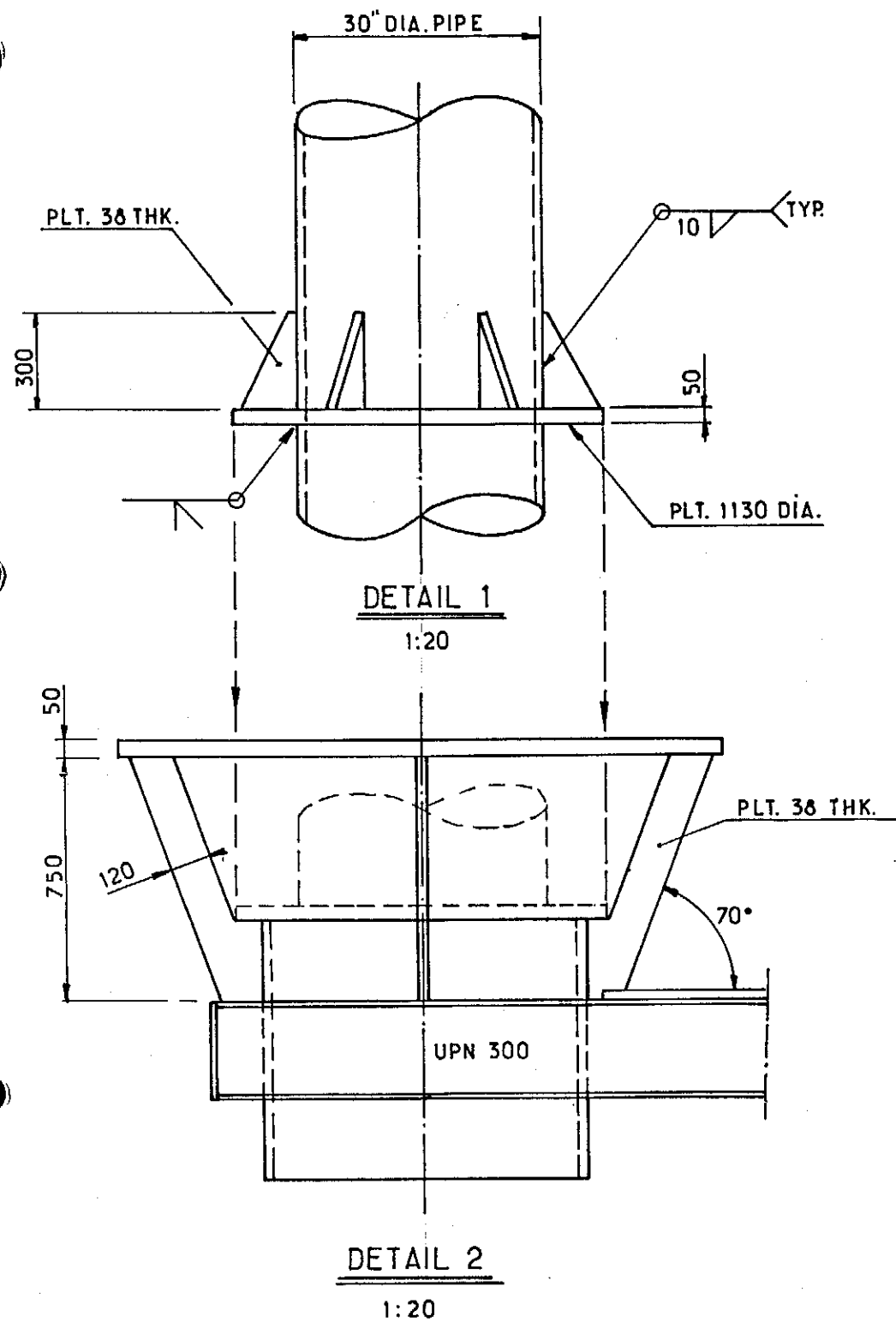


NOTES

FOR LOCATION OF RISERS ON B.W.W SEE SK. FF 91-36-35-1141 to 1146

FOR DETAIL OF SYMINEX RISERS SEE SECTION 6

elf aquitaine norge a/s p.o.box 168 4001 Stavanger				Job no. Installation CDP 1		System UNDERWATER	
1 1283 REDRAWN llc llc				Scale 1:200		UTILITY AND SYMINEX RISERS GENERAL ELEVATION	
Rev. Date DESCRIPTION by app.				Dwgr. no. FF 91-36-35-1506		Sheets 1	
Contractor JVD 1029-50-02				FRIGG FIELD			



NOTES

FOR LOCATION ON WALL SEE SK. FF 91-36-35-1141 to 1146

FOR BACKING PLATE 1529

elf aquitaine norge a/s p.o. box 168 4001 Stavanger			
1	12 83	UPDATED	MC MC
Rev.	Date	DESCRIPTION	by app.
Contractor JVD 1029 50.03			



Job no.	Installation CDP 1	System UNDERWATER
Scale 1/50	UPPER SUPPORT FOR 30" DIA SLOP RISER SW 143	
Dwgr. no.	FF 91-36-35-1507	Rev 1
FRIGG FIELD		Sheet

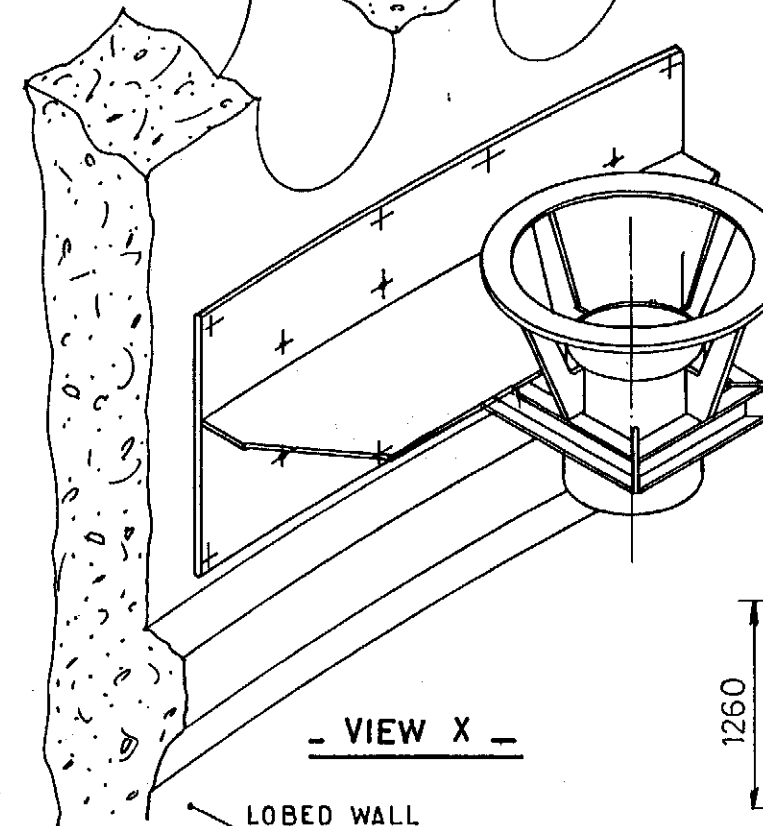
CDP 1 AS BUILT DRAWINGS

REFERENCE DRAWING LIST FOR: UTILITY RISERS

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								Scale			
Rev.	Date	DESCRIPTION	by	app.		FRIGG FIELD	Dwgr. no.	FF — <u>1507</u>		Rev.	Sheet /
Contractor											

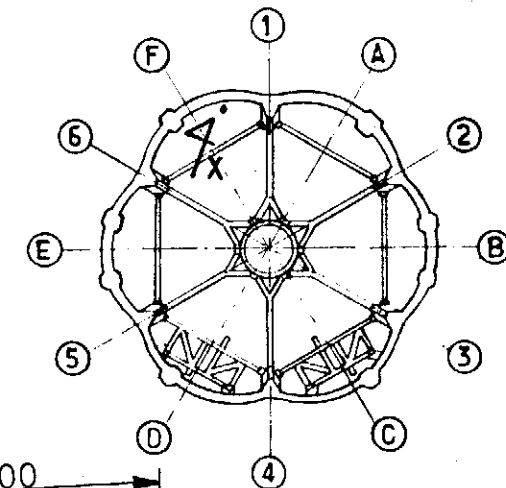
BREAKWATER WALL



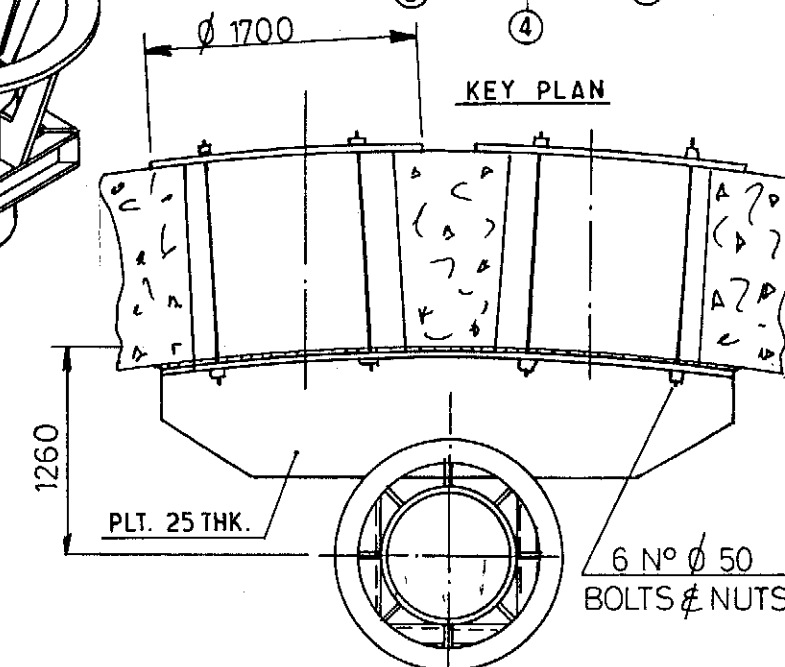
- VIEW X -

LOBED WALL

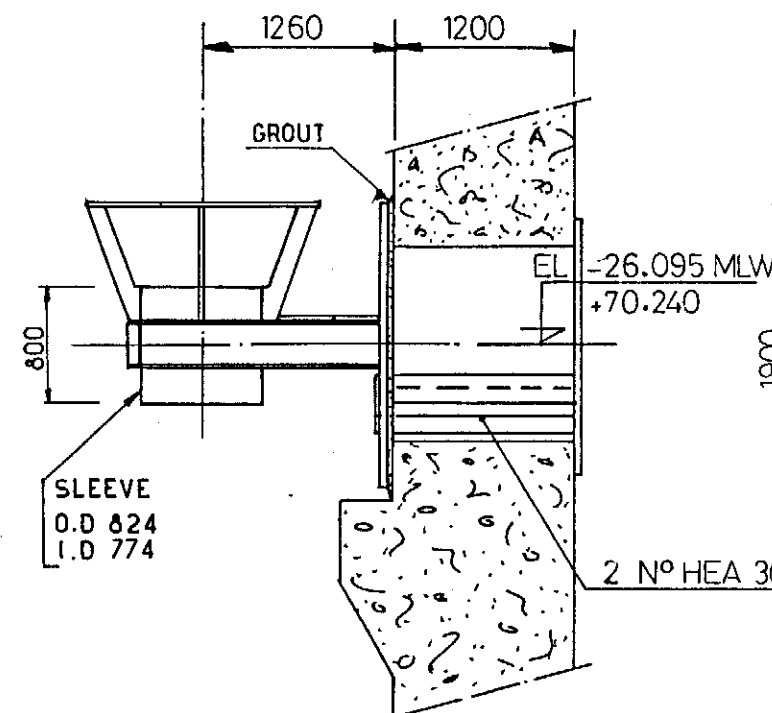
HTION D RRG
19°37'
PLAT. NORTH



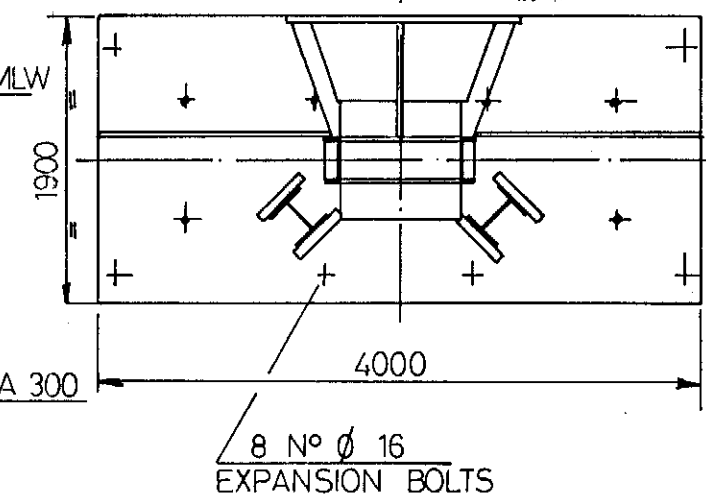
KEY PLAN



- PLAN VIEW -



- VIEW BB -



- VIEW AA -

NOTES

FOR LOCATION ON WALL SEE SK. FF 91-36-35-1141 to 1146
FOR ANODES LOCATION " " 1603 1604
FOR BACKING PLATE DTL. " " 1531

Rev.	Date	DESCRIPTION	by	app.
1	12-83	UPDATED	JJC	JJC
Contractor JVD 1029 50_04				

elf
aquitaine
norge a/s
p.o. box 168
4001 Stavanger

FRIGG FIELD

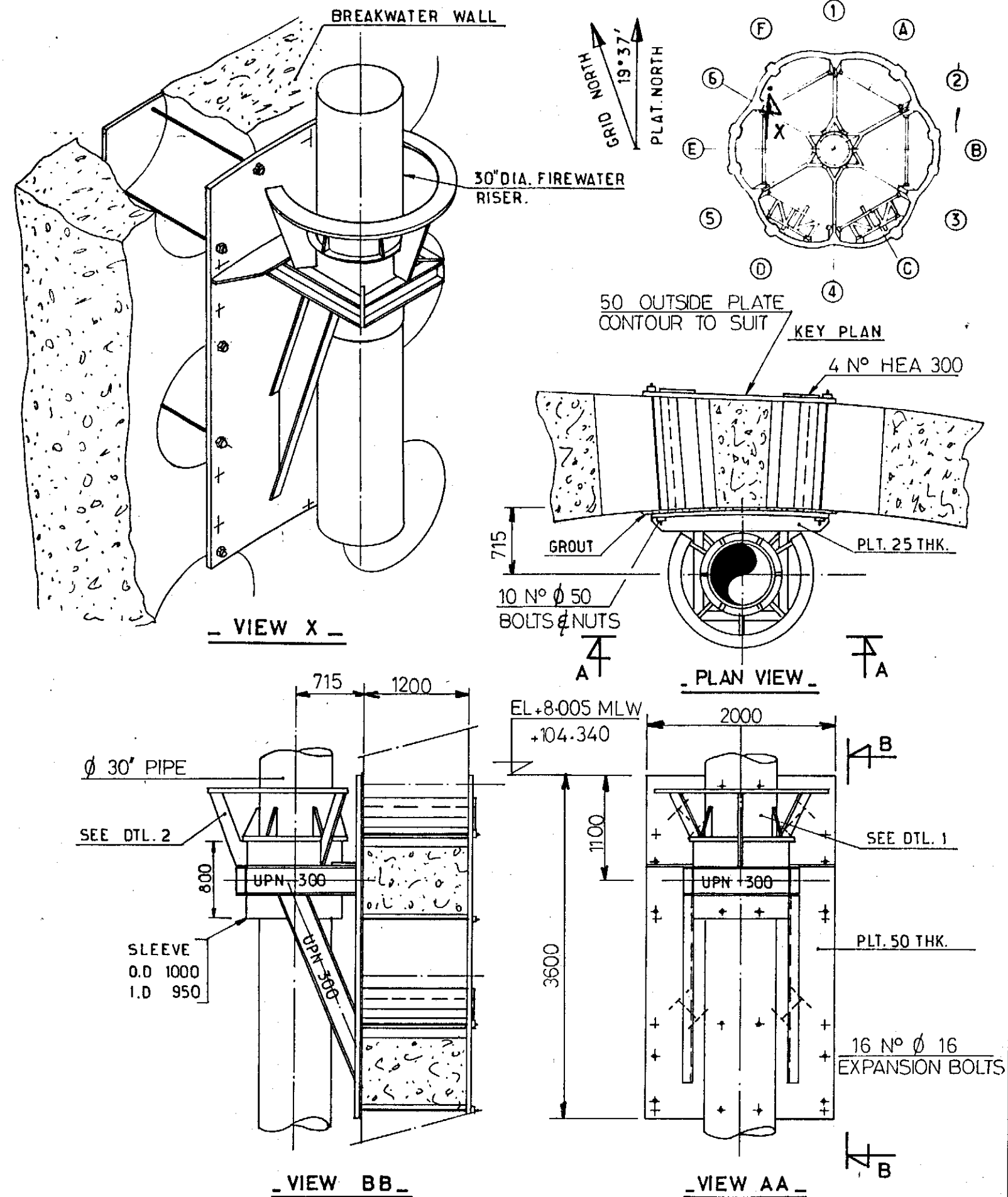
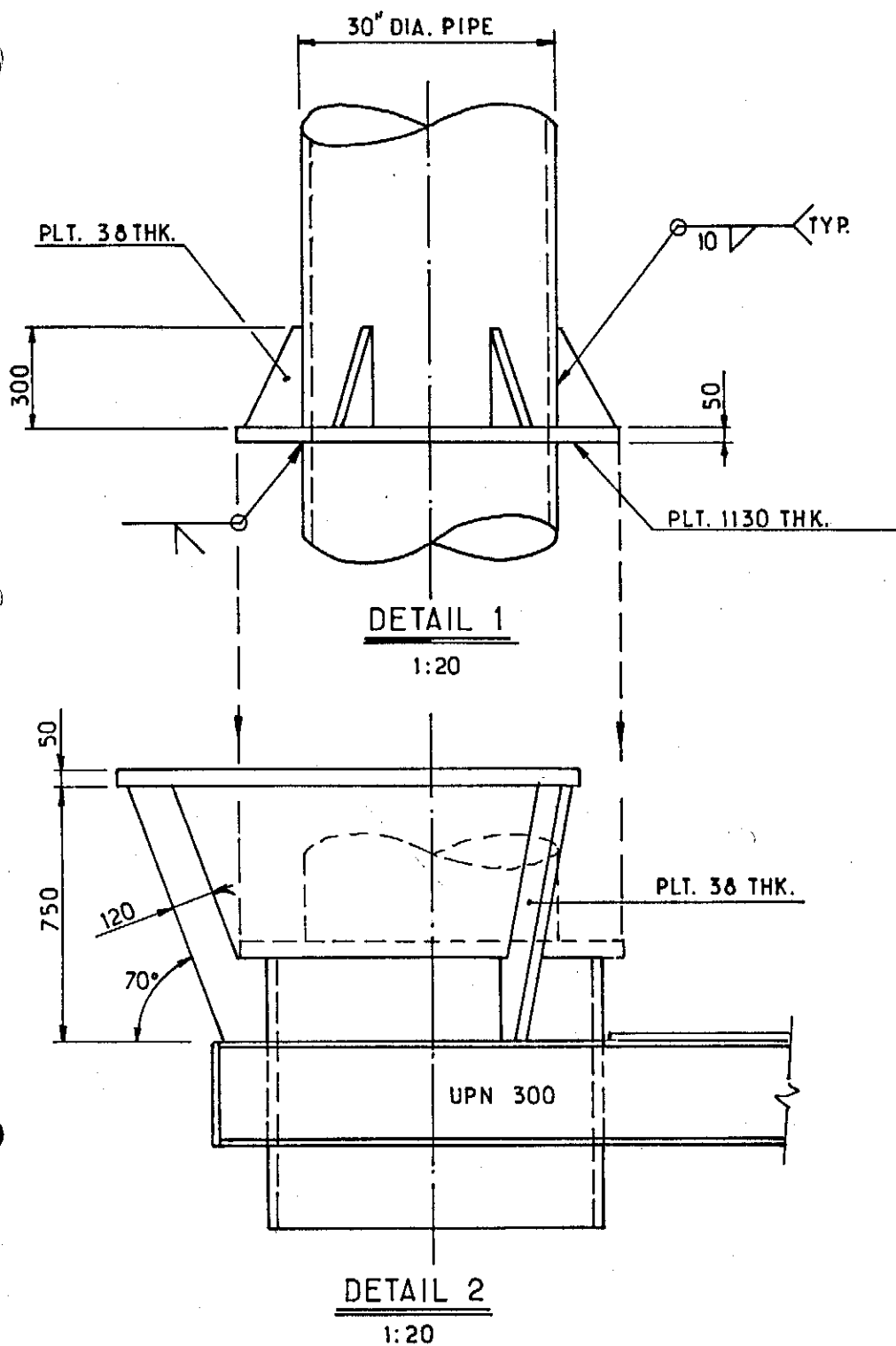
Job no.	Installation CDP 1	System UNDERWATER
Scale 1/50	LOWER SUPPORT FOR 30" DIA SLOP RISER SW 143	
Dwgr. no. FF 91-36-35-1508	Rev 1	Sheet

CDP 1 AS BUILT DRAWINGS

REFERENCE DRAWING LIST FOR: *UTILITY RISERS*

[illegible][illegible]

						 elf	Job no.	Installation CDP 1	System UNDERWATER	
							Scale			
Rev.	Date	DESCRIPTION	by	app.			Dwgr. no.		Rev.	Sheet
Contractor					elf aquitaine norge a/s p.o.box 168 4001 Stavanger	FRIGG FIELD	FF	— 1508		/



NOTES

FOR LOCATION ON WALL SEE SK. FF 91-36-35-1141 to 1146
FOR BACKING PLATE 1529

				elf aquitaine norge a/s		elf	Job no.	Installation CDP 1	System UNDERWATER
1	12-83	UPDATED	MC	MC	p.o. box 168		Scale 1/50	UPPER SUPPORT FOR 30" DIA RISER SW 144	
Rev. Date DESCRIPTION by app.				Contractor JVD 1029 50_05		4001 Stavanger	Dwgr. no.	FF 91-36-35-1509	Rev. 1
						FRIGG FIELD	Sheet		

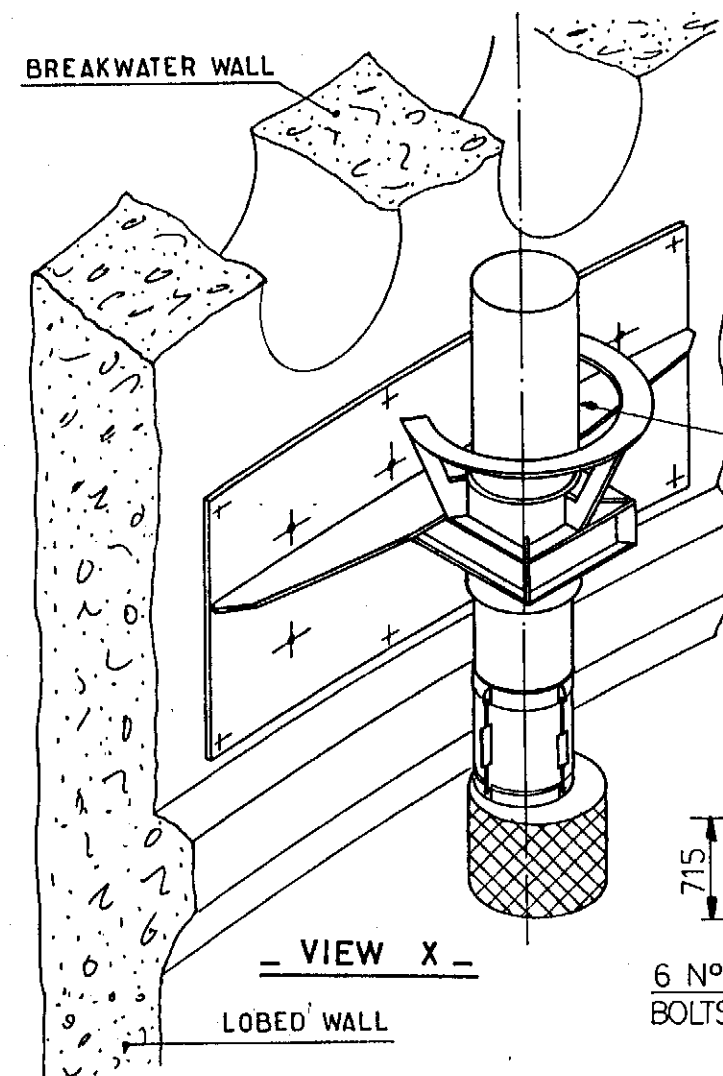
CDP 1 AS BUILT DRAWINGS

REFERENCE DRAWING LIST FOR: *UTILITY RISERS*

[illegible][illegible]

					elf aquitaine norge a/s p.o.box 168 4001 Stavanger	 elf	Job no.	Installation CDP 1	System UNDERWATER	
							Scale			
Rev.	Date	DESCRIPTION	by	app.	Contractor	FRIGG FIELD	Dwgr. no.	Rev.		Sheet
							FF	1509		

BREAKWATER WALL

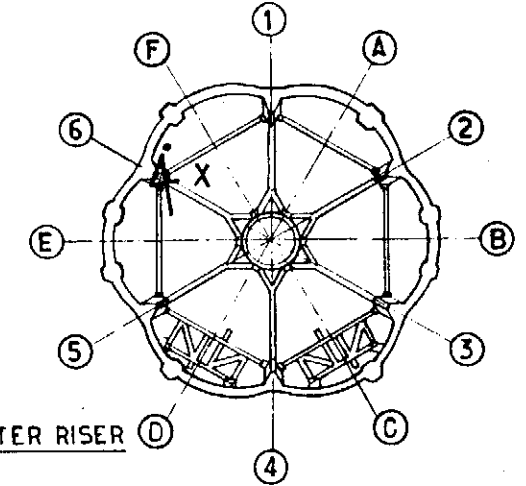


VIEW X

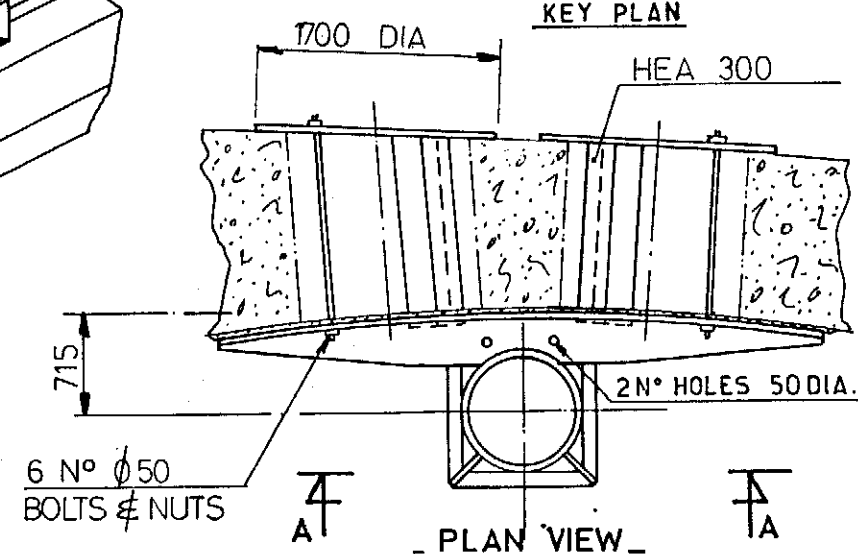
LOBED WALL

30" DIA. FIREWATER RISER

HIGH D. NORTH
19° 37'
PLAT. NORTH

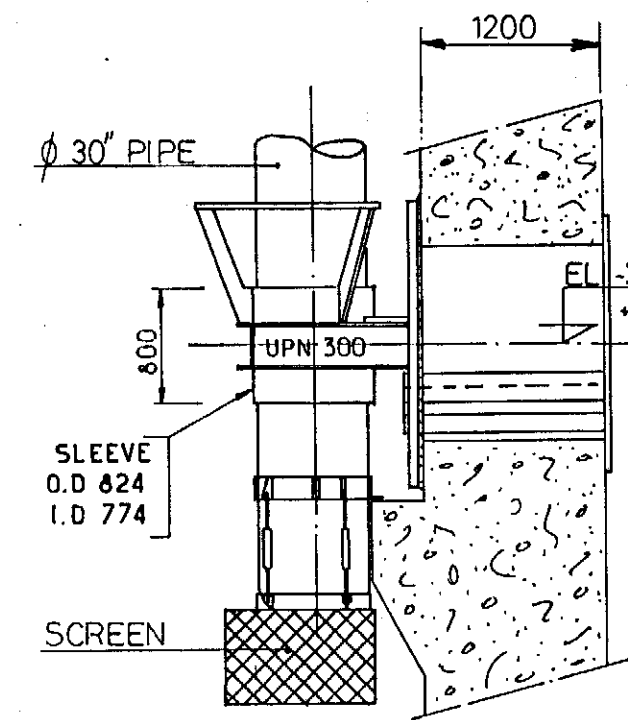


KEY PLAN

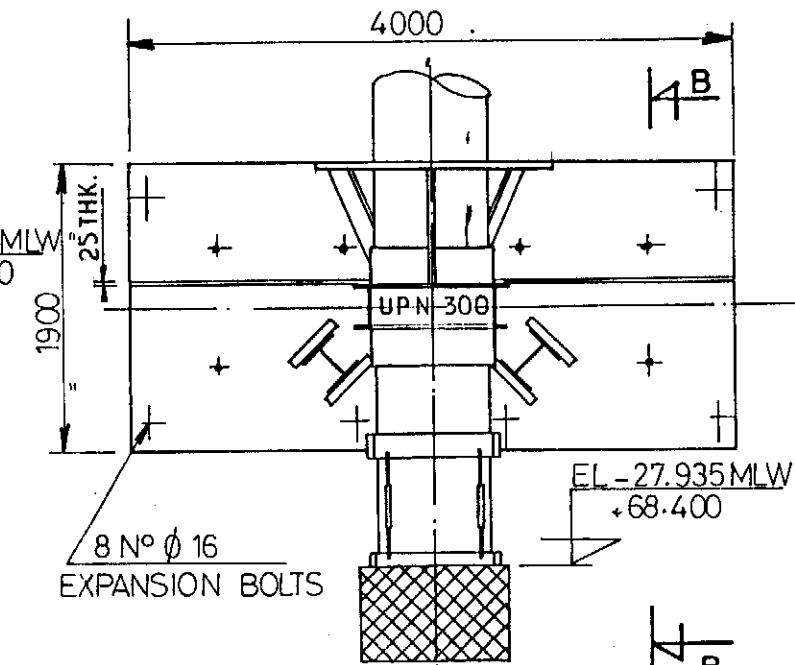


6 N° ϕ 50
BOLTS & NUTS

PLAN VIEW



VIEW BB



VIEW AA

NOTES

- FOR LOCATION ON WALL SEE SK. FF 91-36-35-1141 to 1146
- FOR BACKING PLATE " 1531
- FOR ANODES LOCATION " 1605 1606
- FOR PROTECTION SCREEN " 1537

Rev.	Date	DESCRIPTION	by	app.
1	12-83	UPDATED	llc	llc
Contractor JVD 1029 50-06				

elf
aquitaine
norge a/s
p.o. box 168
4001 Stavanger

FRIGG FIELD

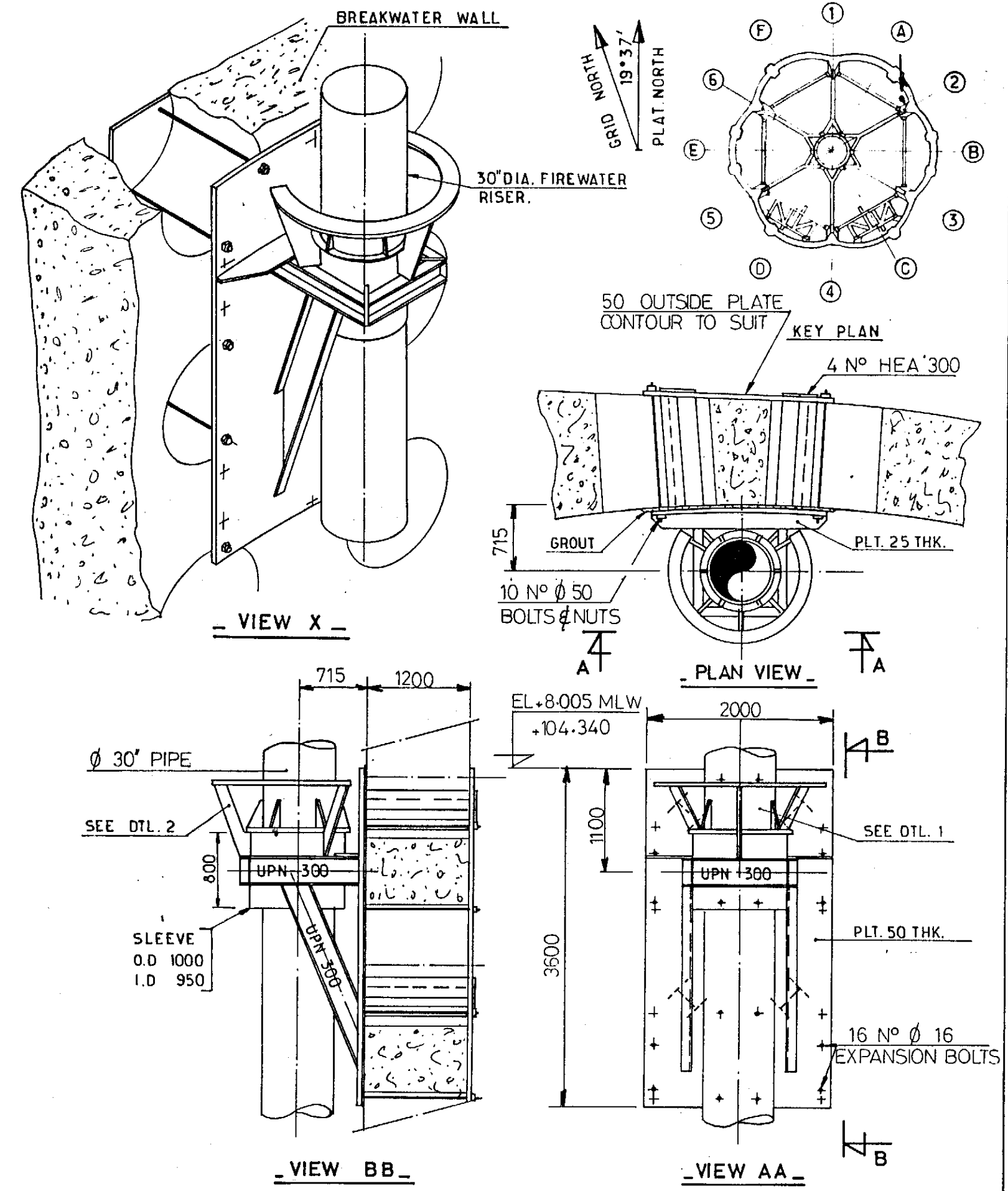
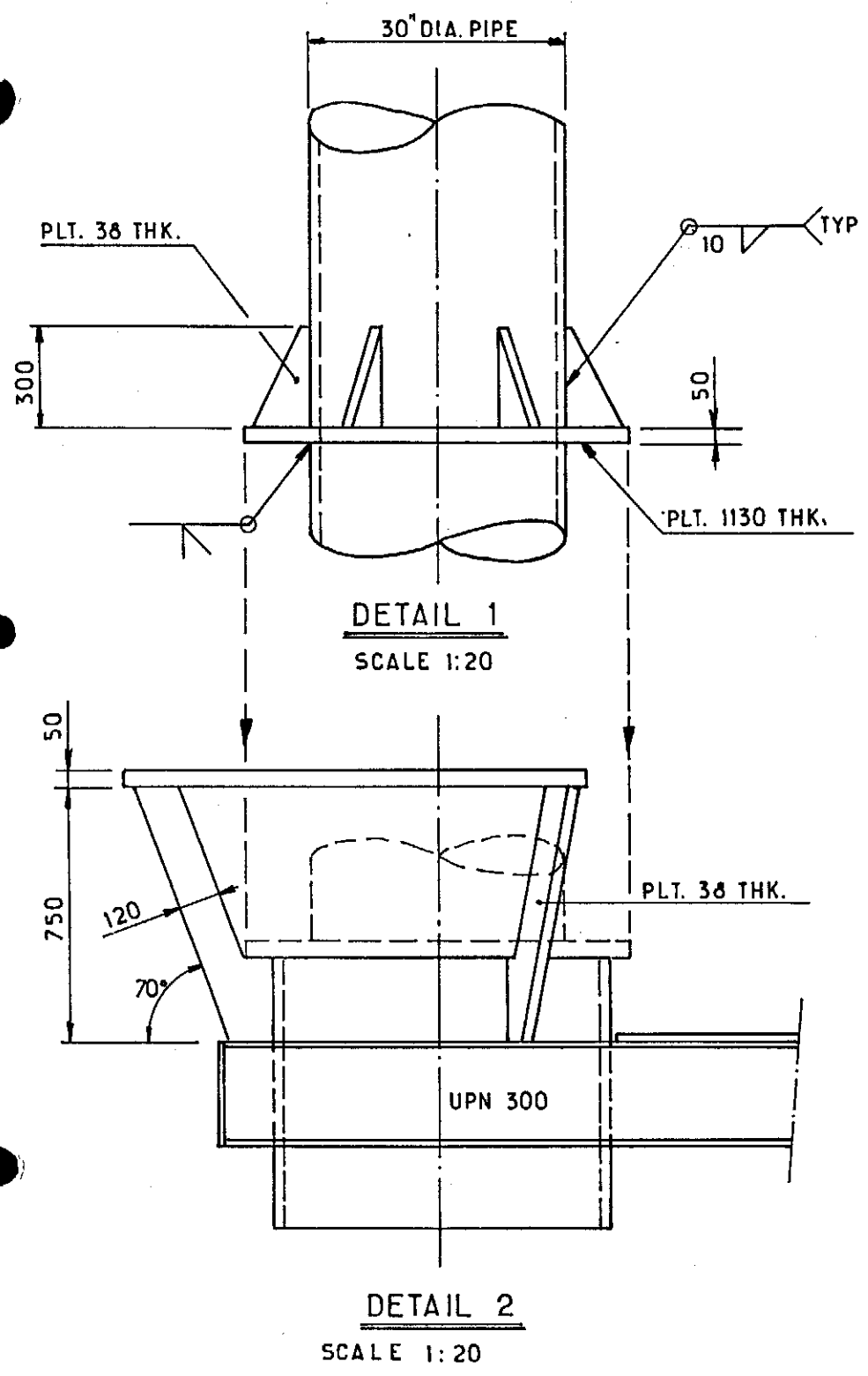
Job no.	Installation	System
	CDP 1	UNDERWATER
Scale	LOWER SUPPORT FOR	
1/50	30" DIA RISER SW 144	
Dwgr. no.	Rev	Sheet
FF 91-36-35-1510	1	

CDP 1 AS BUILT DRAWINGS

REFERENCE DRAWING LIST FOR: UTILITY RISERS

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					elf aquitaine norge a/s p.o.box 168 4001 Stavanger	 elf	Job no.	Installation CDP 1	System UNDERWATER		
							Scale				
Rev.	Date	DESCRIPTION	by	app.			Dwgr. no.	FF — 1510		Rev.	Sheet
Contractor					FRIGG FIELD						



NOTES

FOR LOCATION ON WALL SEE SK. FF 91-36-35-1141 to 1146

FOR BACKING PLATE DTL. 1529

				elf aquitaine norge a/s		elf	Job no.	Installation CDP 1	System UNDERWATER
1	12-83	UPDATED	JLC	JLC	p.o. box 168		Scale 1/50	UPPER SUPPORT FOR 30" DIA RISER SW 145	
Contractor JVD 1029 - 50_10				4001 Stavanger		FRIGG FIELD	Dwgr. no.	FF 91-36-35-1514	Rev. 1
									Sheet

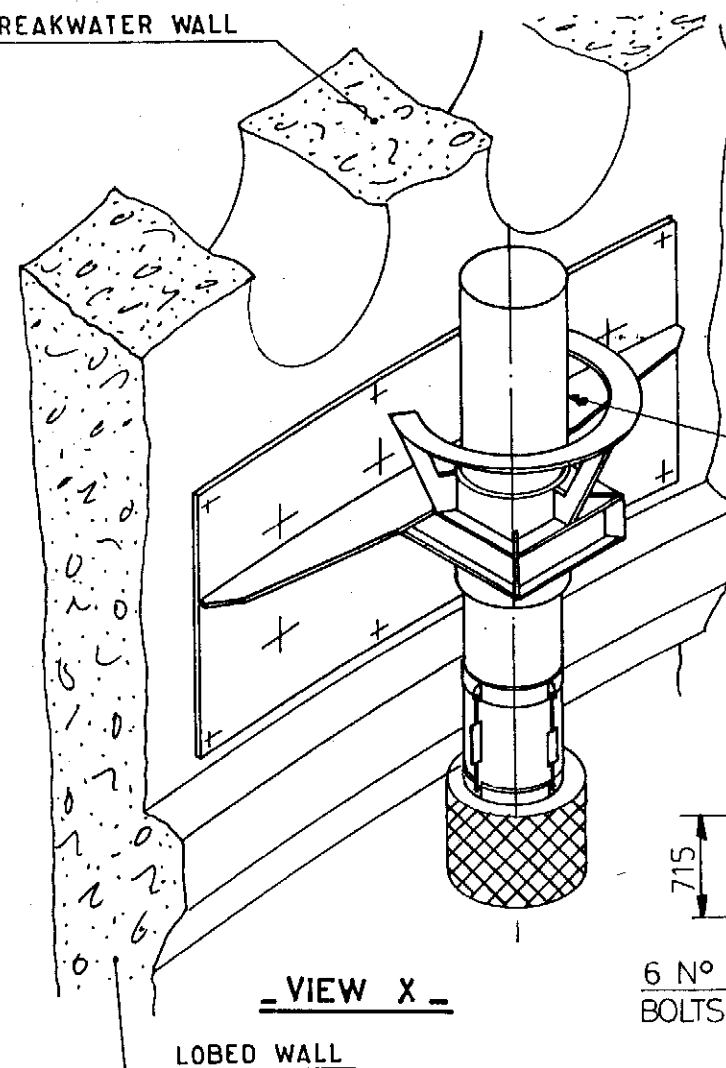
CDP 1 AS BUILT DRAWINGS

REFERENCE DRAWING LIST FOR: *UTILITY RISERS*

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				elf aquitaine norge a/s p.o.box 168 4001 Stavanger	 elf	Job no.	Installation CDP 1	System UNDERWATER	
						Scale			
Rev.	Date	DESCRIPTION	by	app.	FRIGG FIELD	Dwgr. no.	Rev.		Sheet
Contractor						FF	1514		/

BREAKWATER WALL

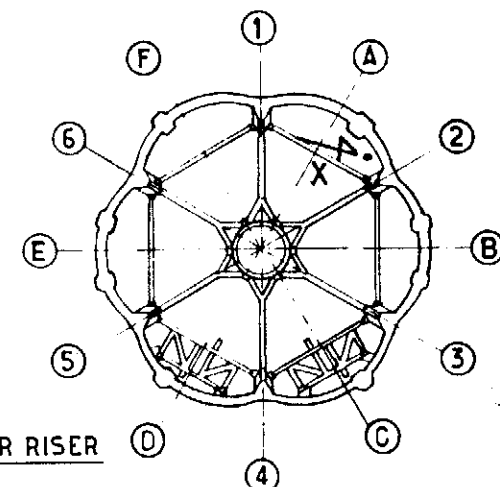


VIEW X

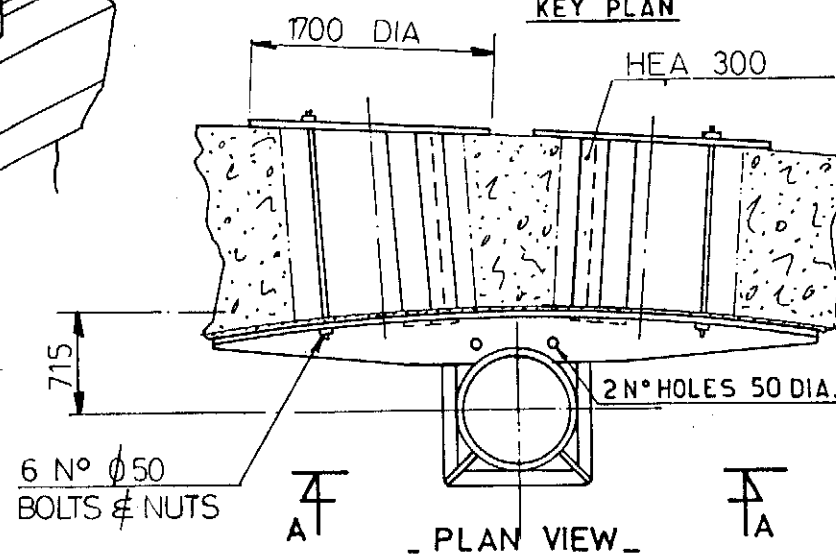
LOBED WALL

30 DIA. FIREWATER RISER

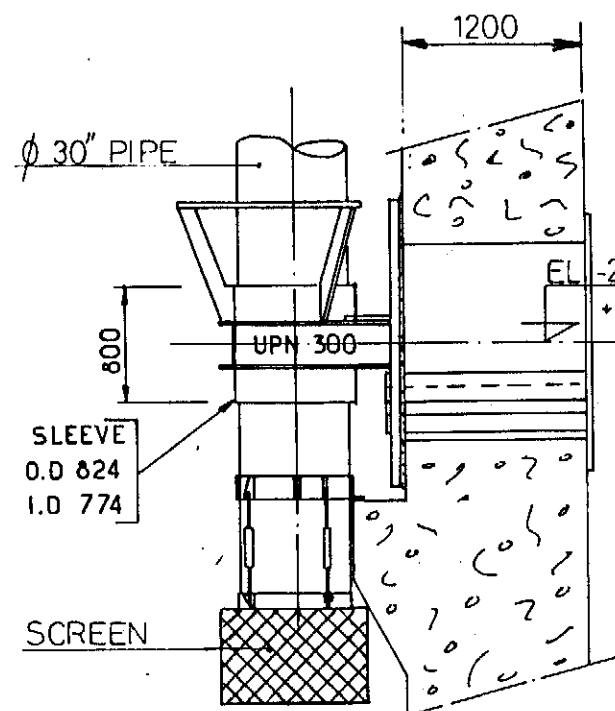
GRID NORTH
19° 37'
PLAT. NORTH



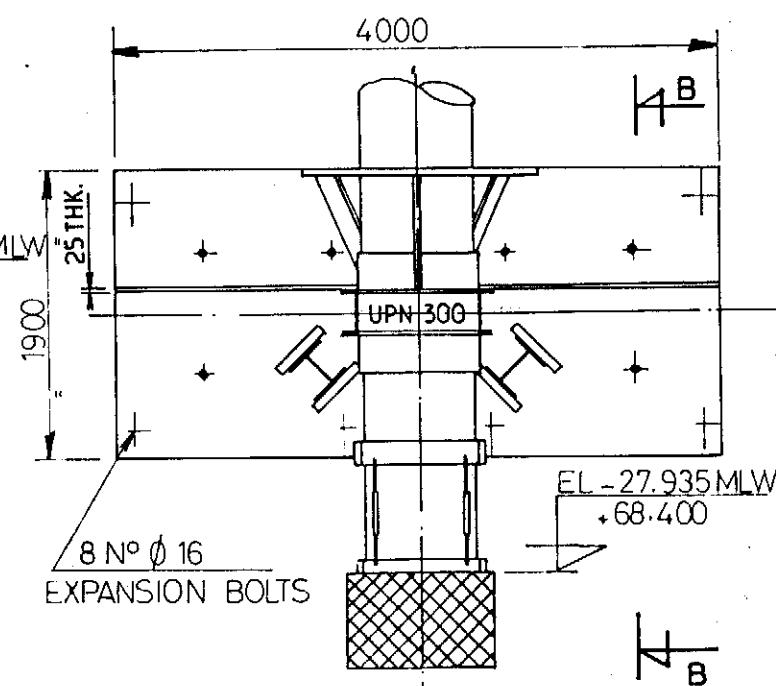
KEY PLAN



PLAN VIEW



VIEW BB



VIEW AA

NOTES

FOR LOCATION ON WALL SEE SK. FF 91-36-35-1141 to 1146
 FOR BACKING PLATE DTL. " 1531
 FOR ANODES LOCATION " 1605 1606
 FOR SCREEN DTL. " 1538

Rev.	Date	DESCRIPTION	by	app.
1	12-83	UPDATED	JVC	JVC
Contractor JVD 1029 50-11				

elf
aquitaine
norge a/s
p.o. box 168
4001 Stavanger



FRIGG FIELD

Job no.	Installation	System
	CDP 1	UNDERWATER
Scale	LOWER SUPPORT FOR	
1/50	30" DIA RISER SW 145	
Dwgr. no.	Rev.	Sheet
FF 91-36-35-1515	1	1

CDP 1 AS BUILT DRAWINGS

REFERENCE DRAWING LIST FOR: *UTILITY RISERS*

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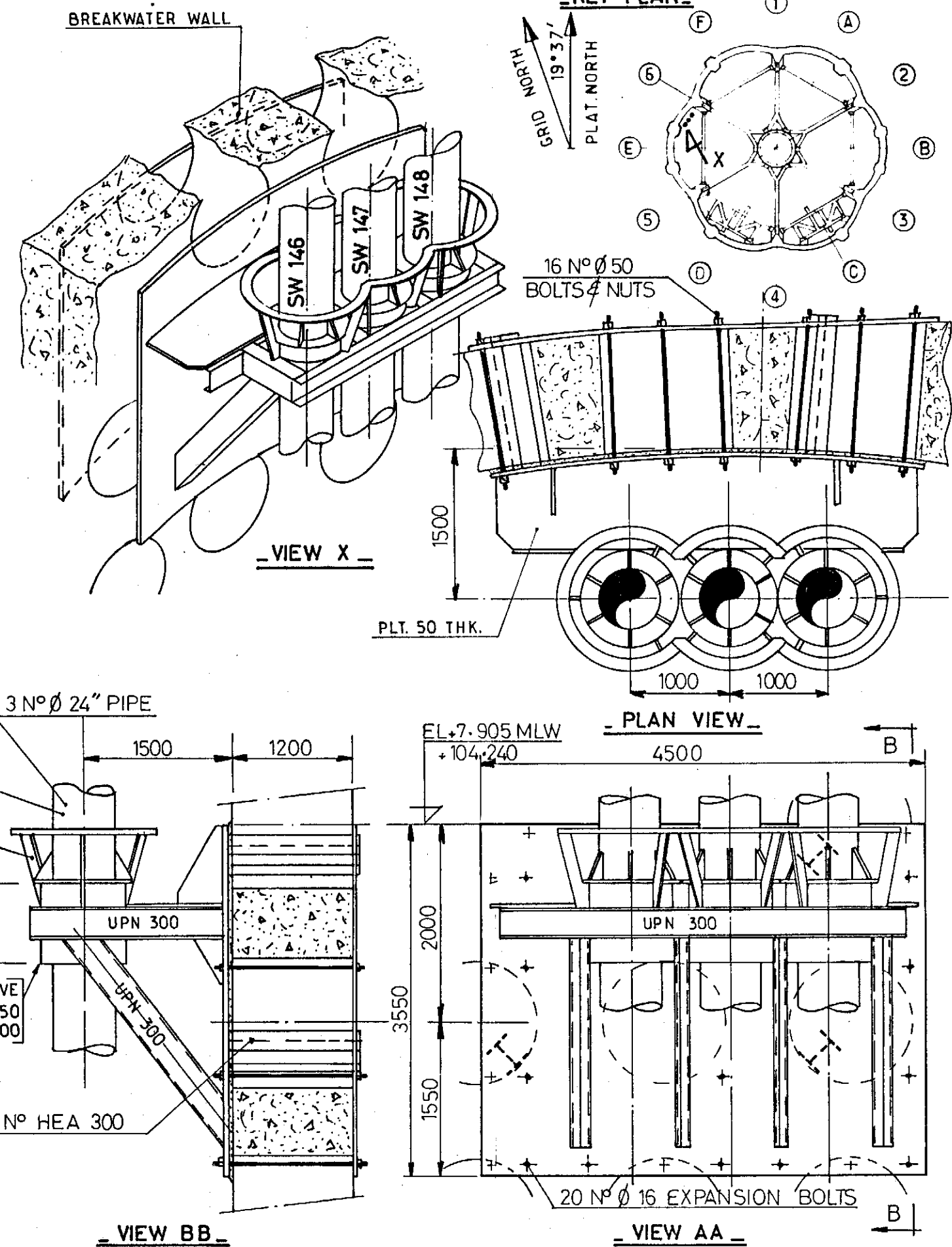
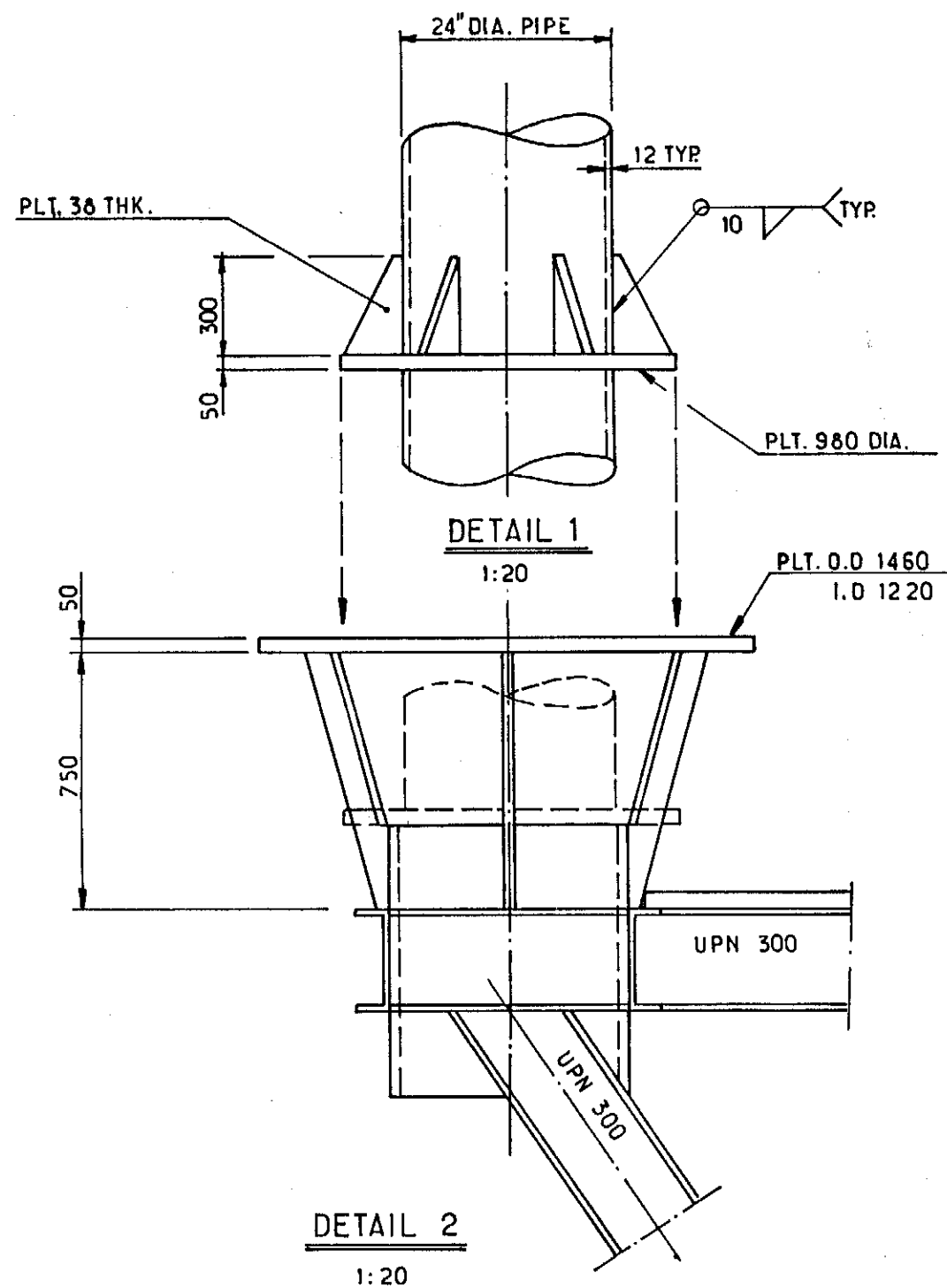
					elf aquitaine norge a/s p.o.box 168 4001 Stavanger	 elf	Job no.	Installation CDP 1	System UNDERWATER		
							Scale				
Rev.	Date	DESCRIPTION	by	app.			FRIGG FIELD	Dwgr. no. FF	1515		Rev.
Contractor											

CDP 1 AS BUILT DRAWINGS

REFERENCE DRAWING LIST FOR: *UTILITY RISERS*

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					elf aquitaine norge a/s p.o.box 168 4001 Stavanger	 elf	Job no.	Installation CDP 1	System UNDERWATER		
							Scale				
Rev.	Date	DESCRIPTION	by	app.			Dwgr. no.	FF <u>1519</u>		Rev.	Sheet /
Contractor					4001 Stavanger	FRIGG FIELD					



NOTES

FOR LOCATION ON WALL SEE SK. FF 91-36-35-1141 to 1146
FOR BACKING PLATE DTL. 1528

				elf aquitaine norge a/s		elf	Job no.	Installation CDP 1	System UNDERWATER
1	12-83	UPDATED	He JAC	by	app.		Scale 1/50	UPPER SUPPORT FOR 24" DIA RISERS SW146 SW147 SW148	
Rev. Date DESCRIPTION				p.o. box 168			Dwgr. no.	FF 91-36-35-1519	1
Contractor JVD 1029 50-15				4001 Stavanger		FRIGG FIELD			

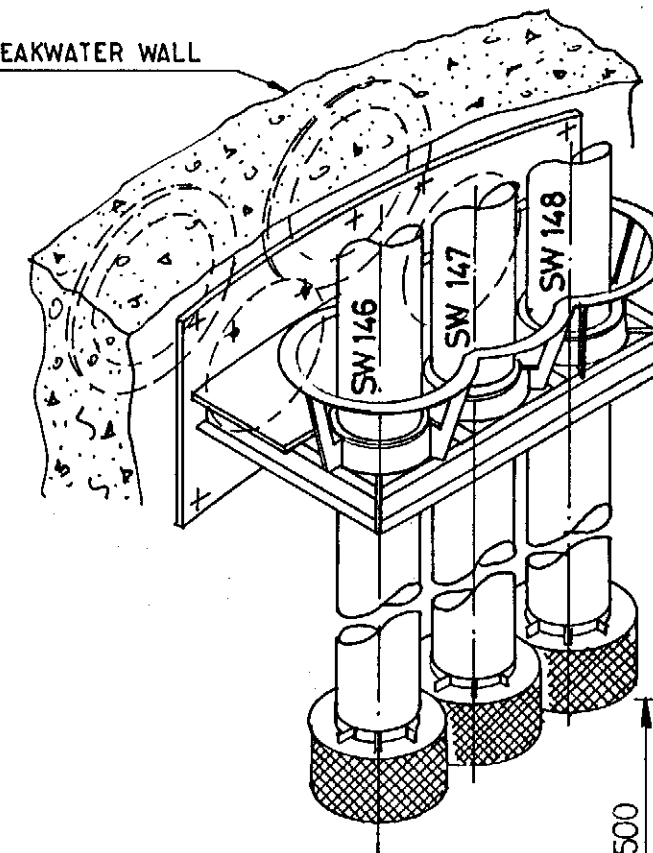
CDP 1 AS BUILT DRAWINGS

REFERENCE DRAWING LIST FOR: *UTILITY RISERS*

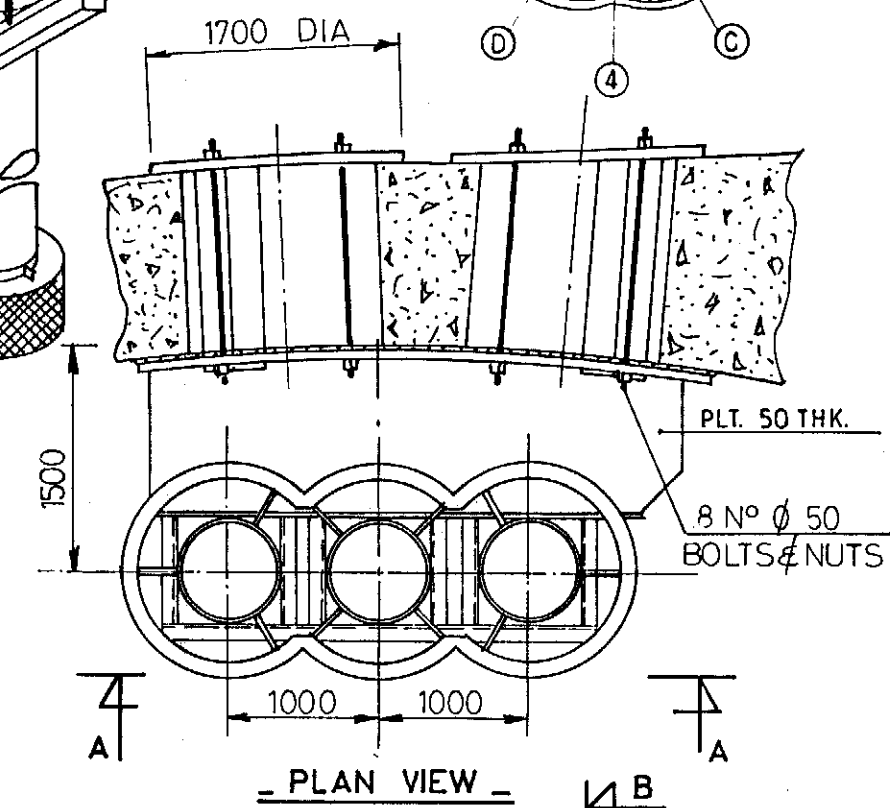
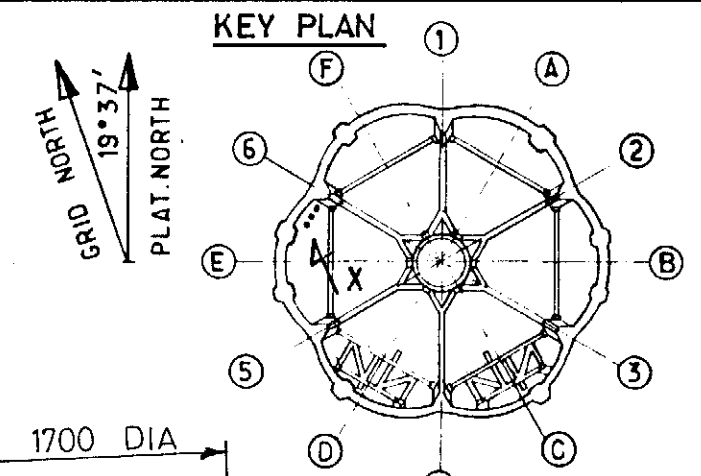
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Rev.	Date	DESCRIPTION	by	app.					Dwgr. no.		Rev.		Sheet	
Contractor					4001 Stavanger		FRIGG FIELD		FF — <u>1520</u>				/	

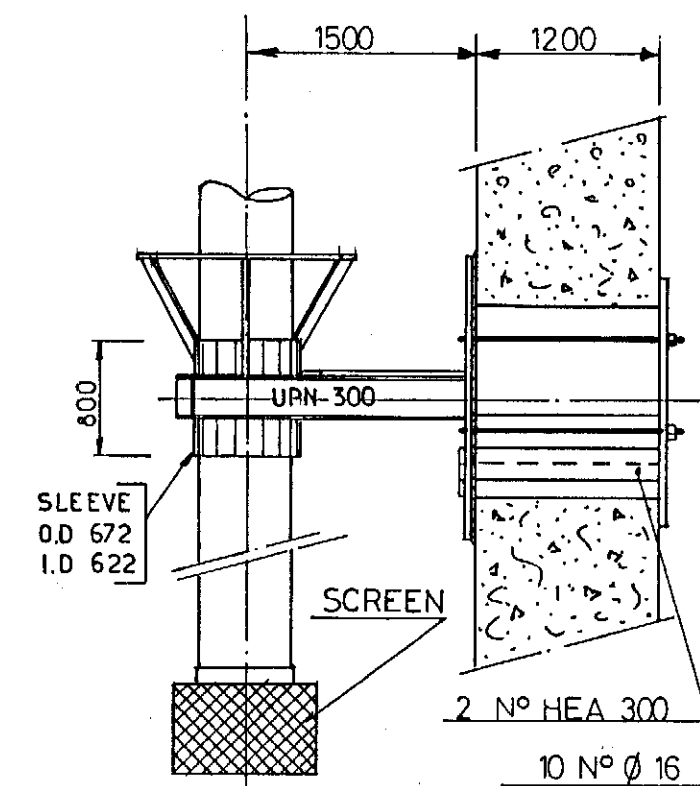
BREAKWATER WALL



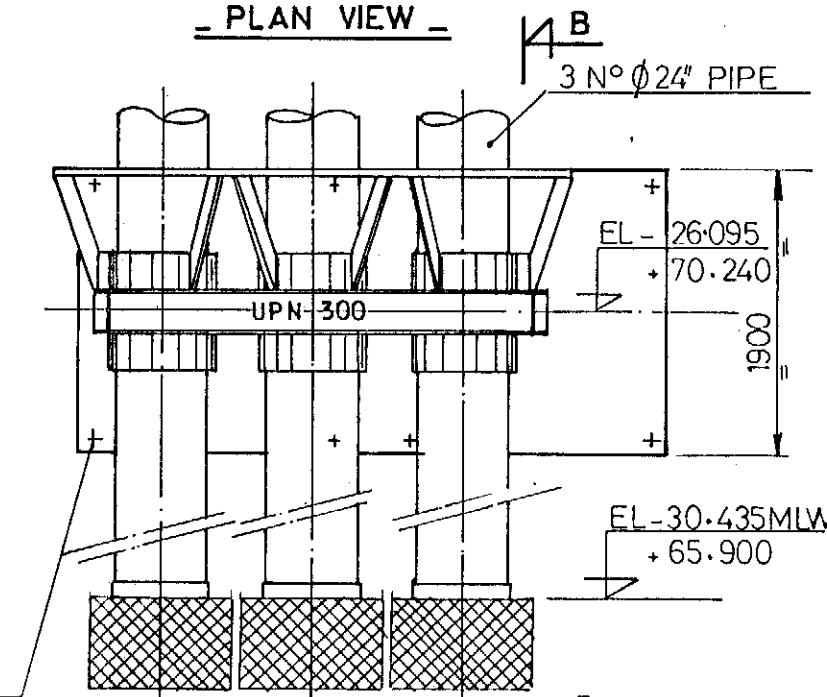
- VIEW X -



- PLAN VIEW -



- VIEW BB -



- VIEW AA -

NOTES

- FOR LOCATION ON WALL SEE SK. FF 91-36-35-1141 to 1146
- FOR BACKING PLATE DTL. 1532
- FOR ANODES LOCATION 1601 1602
- FOR SCREEN DTL. 1539

elf aquitaine norge a/s p.o. box 168 4001 Stavanger				elf		Job no.	Installation CDP 1	System UNDERWATER
1	12-83	UPDATED	JLC	JLC		Scale 1/50	LOWER SUPPORT FOR 24" DIA RISERS SW146 SW147 SW148	
Contractor JVD 1029 50_16				FRIGG FIELD		Dwgr. no.	FF 91-36-35-1520	Rev 1
								Sheet

CDP 1 AS BUILT DRAWINGS

REFERENCE DRAWING LIST FOR: UTILITY RISERS

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						Scale				
Rev.	Date	DESCRIPTION	by	app.	FRIGG FIELD	Dwgr. no.	FF — — <u>1521</u>		Rev.	Sheet /
Contractor						4001 Stavanger				

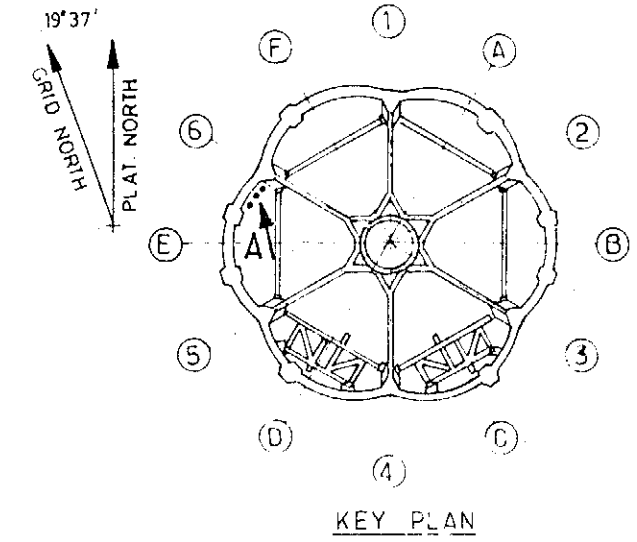


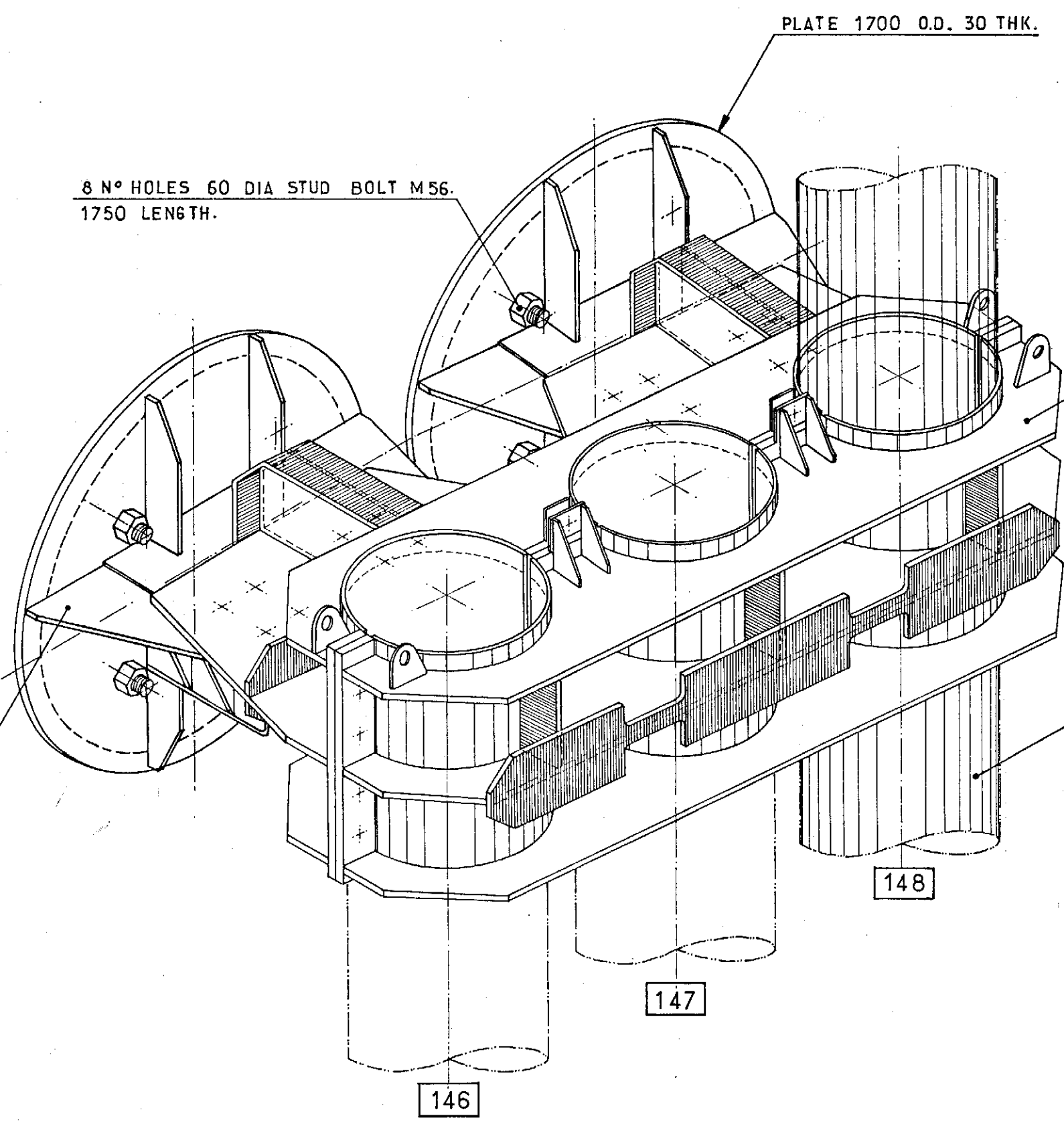
PLATE 1700 O.D. 30 THK.

8 N° HOLES 60 DIA STUD BOLT M56.
1750 LENGTH.

CLAMP: SEE SK_FF 91-36-35-1523.

SUPPORT
SEE SK_FF 91-36-35-1522.

3 x 24" DIA. SEA WATER RISERS.



VIEW A

NOTES

_FOR LOCATION SEE SK_FF 91-36-35-1139 AND 1145.

				elf aquitaine norge a/s		elf	Job no.	Installation CDP 1	System UNDERWATER
1	2.84	REDRAWN.	HIRA J.L.C.	Rev.	Date		Scale	INTERMEDIATE SUPPORT GENERAL ISOMETRIC	
Contractor JVD_1029-50-17				p.o.box 168 4001 Stavanger		FRIGG FIELD	Dwgr. no	FF 91-36-35-1521.	1

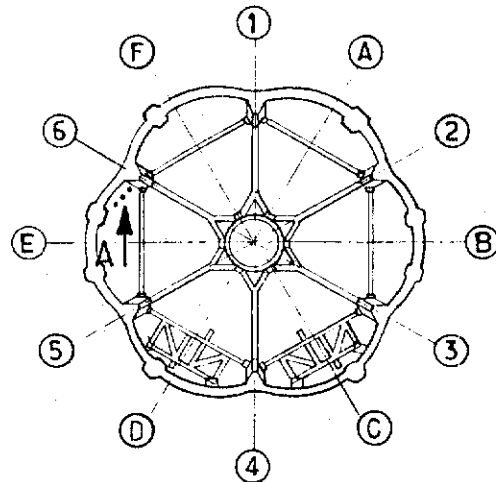
CDP 1 AS BUILT DRAWINGS

REFERENCE DRAWING LIST FOR: UTILITY RISERS

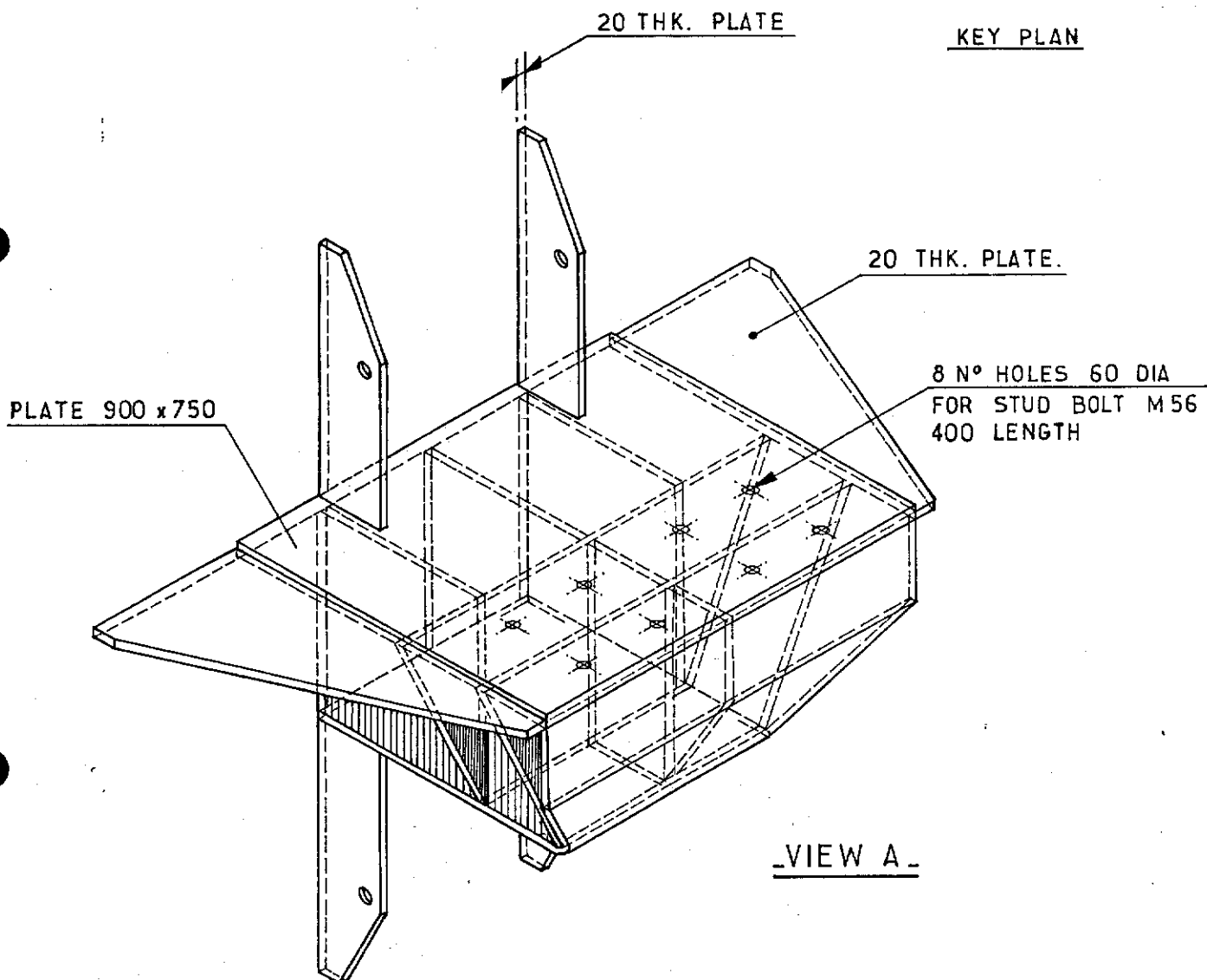
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Rev. Date DESCRIPTION by app. Contractor				 elf aquitaine norge a/s p.o.box 168 4001 Stavanger		 elf FRIGG FIELD		Job no. Scale Dwgr. no. FF <u>1522</u>		Installation CDP 1		System UNDERWATER		Rev. Sheet /	
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HUMB
19° 37'
PLAT. NORTH



KEY PLAN



VIEW A

NOTES

_ SEE ALSO SK _ FF91-36-35-1521.

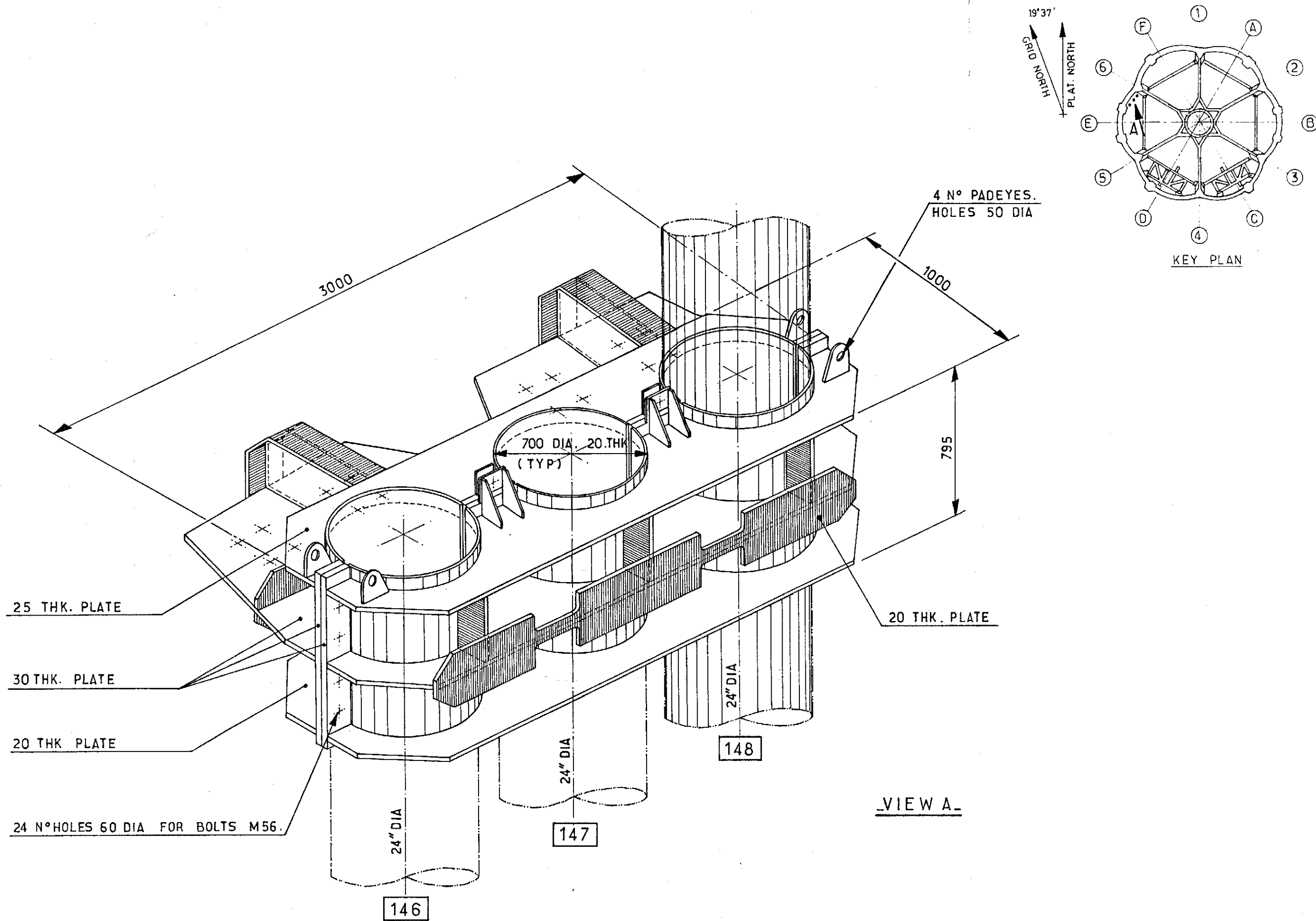
				elf aquitaine norge a/s p.o.box 168 4001 Stavanger	 elf	Job no.	Installation CDP 1	System UNDERWATER
1	0284	REDRAWN	D.P. JLC			Scale	INTERMEDIATE SUPPORT SUPPORT DETAIL 1.	
Rev.	Date	DESCRIPTION	by	app.		Dwgr. no.	FF 91-36-35-1522	Rev 1
Contractor JVD 1029_50_18				4001 Stavanger	FRIGG FIELD			Sheet

CDP 1 AS BUILT DRAWINGS

REFERENCE DRAWING LIST FOR: UTILITY RISERS

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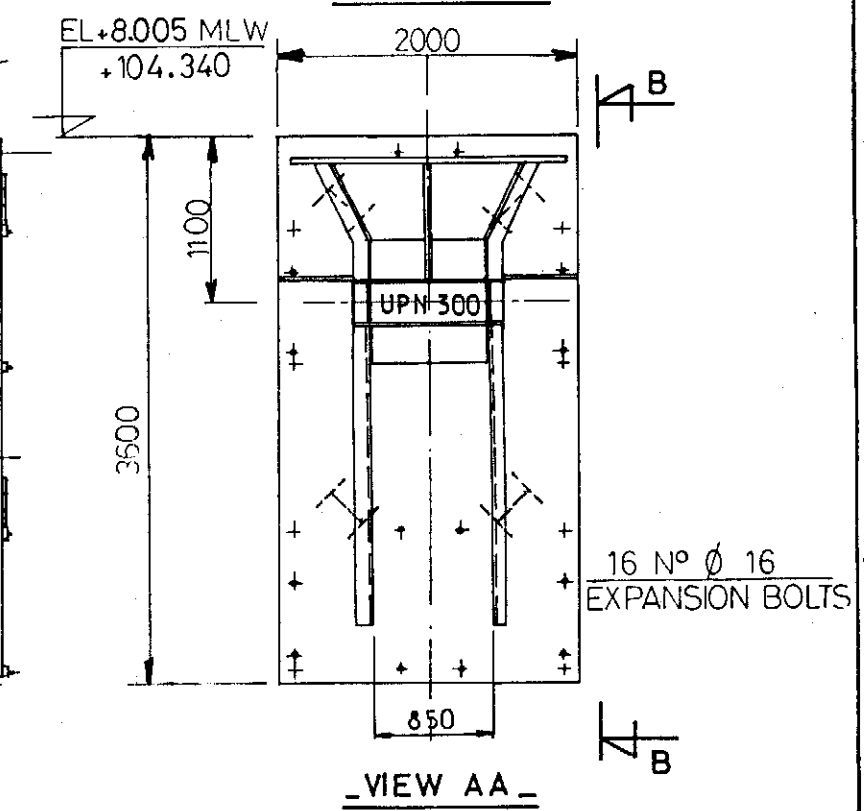
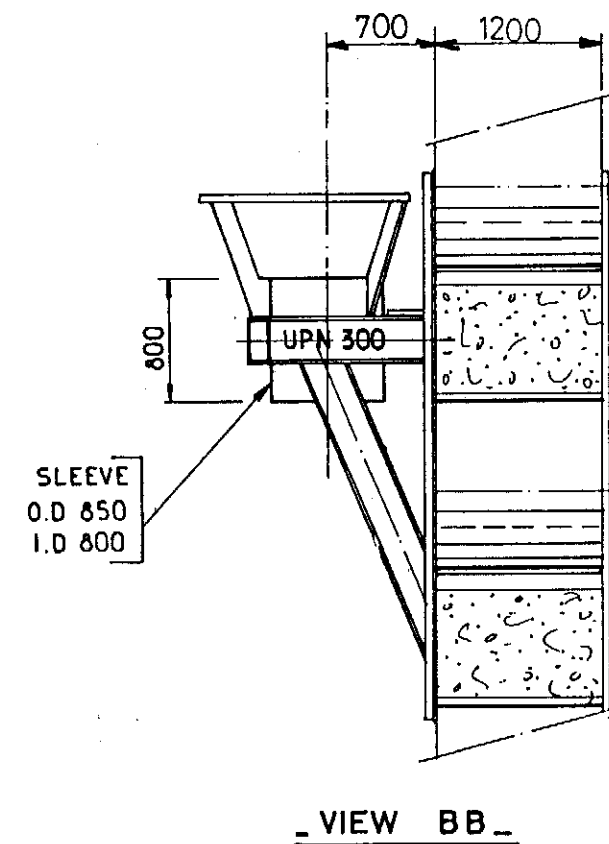
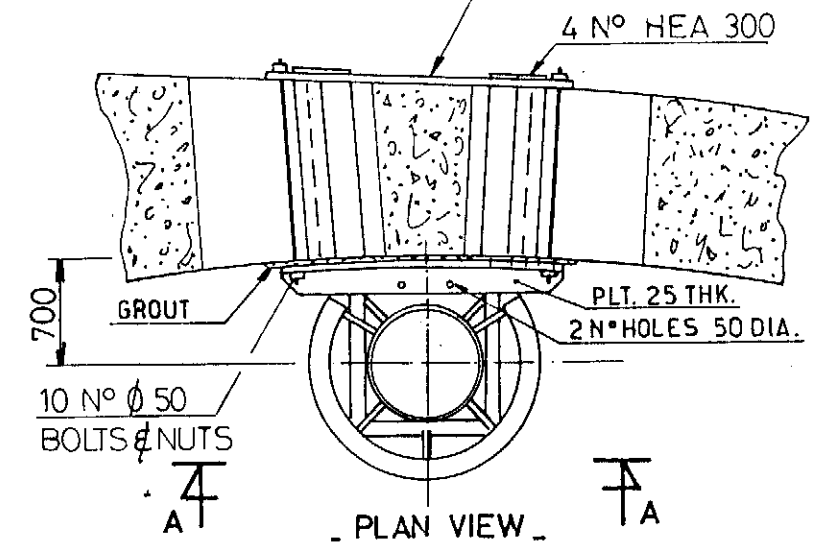
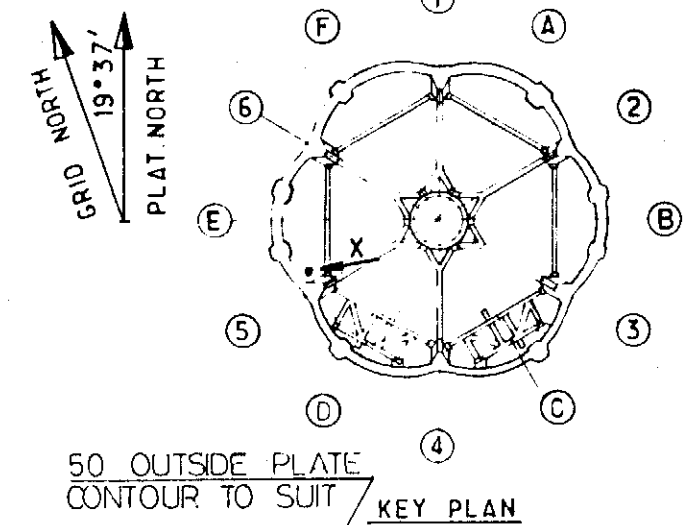
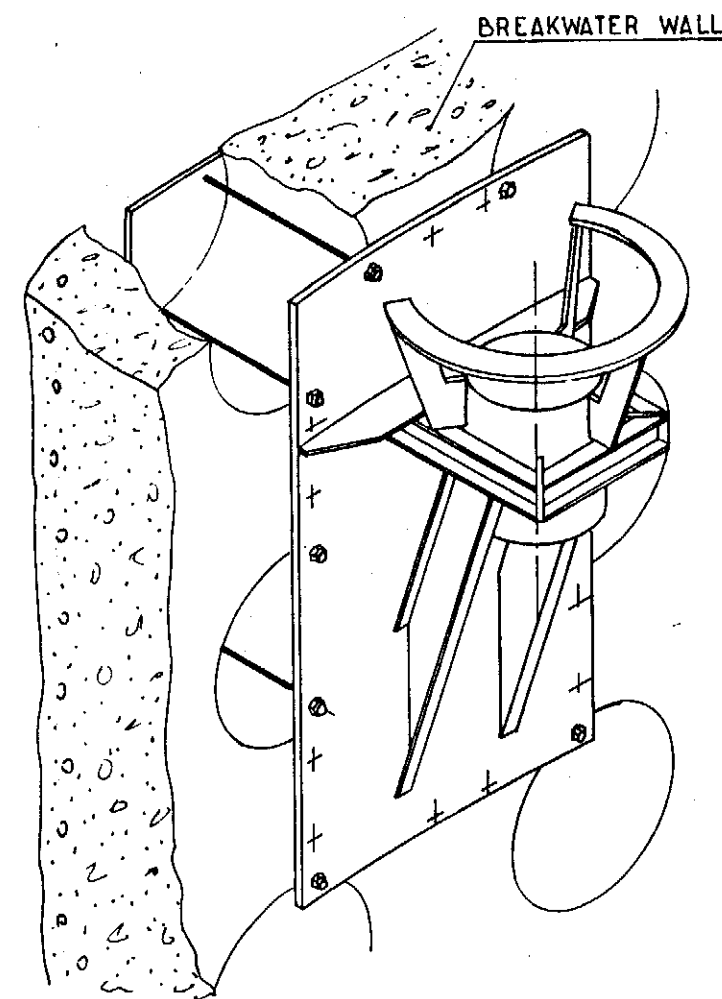
					elf aquitaine norge a/s p.o.box 168 4001 Stavanger	 elf	Job no.	Installation CDP 1	System UNDERWATER	
							Scale			
Rev.	Date	DESCRIPTION	by	app.	4001 Stavanger FRIGG FIELD	Dwgr. no. FF — — 1523	Rev.	Sheet		
Contractor									/	



NOTES:

SEE ALSO SK FF.91-36-35-1521.

						 elf	Job no.	Installation CDP 1	System UNDERWATER	
1	2.84	REDRAWN	MIRA	JLC			Scale 	INTERMEDIATE SUPPORT CLAMP DETAIL 2.		
Rev.	Date	DESCRIPTION	by	app.			Dwgr. no.			
Contractor JVD_1029_50_19						4001 Stavanger	FRIGG FIELD	FF 91-36-35-1523.	1	



NOTES

FOR LOCATION ON WALL SEE SK. FF 91-36-35-1141 to 1146
FOR BACKING PLATE DTL. 1530

1	12.83	UPDATED	JLC	JLC	
Rev.	Date	DESCRIPTION	by	app.	
Contractor JVD 1029 50_20			4001 Stavanger		

elf
aquitaine
norge a/s
p.o. box 168



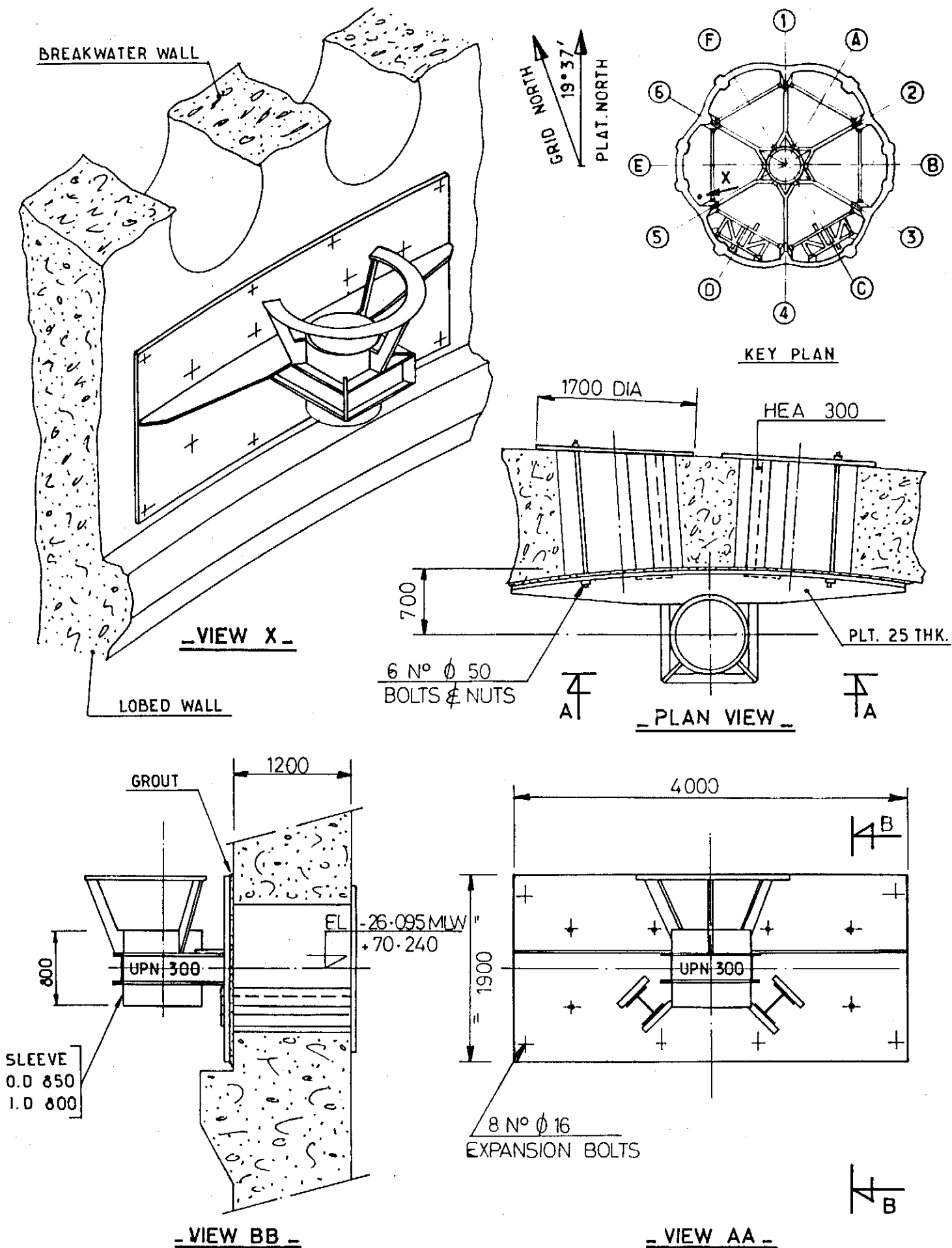
Job no.	Installation CDP 1	System UNDERWATER
Scale 1/50	UPPER SUPPORT FOR 24" DIA MUD OUTFALL RISER 149	
Dwgr. no.	FF 91-36-35 1524	1

CDP 1 AS BUILT DRAWINGS

REFERENCE DRAWING LIST FOR: *UTILITY RISERS*

[illegible][illegible]

				elf aquitaine norge a/s p.o.box 168 4001 Stavanger		 elf		Job no. Scale		Installation CDP 1		System UNDERWATER			
Rev. Date DESCRIPTION by app.								Dwgr. no. FF		1524		Rev.		Sheet /	
Contractor				FRIGG FIELD											



ES

FOR LOCATION ON WALL SEE SK. FF 91-36-35-1141 to 1146
 FOR BACKING PLATE DTL. 1531
 FOR ANODES LOCATION 1607 1608 1609

1	12-83	UPDATED	JLC	JLC
Rev.	Date	DESCRIPTION	by	app.
Contractor JVD 1029		50-21	4001 Stavanger	

elf
 aquitaine
 norge a/s
 p.o. box 168
 4001 Stavanger

elf
 FRIGG FIELD

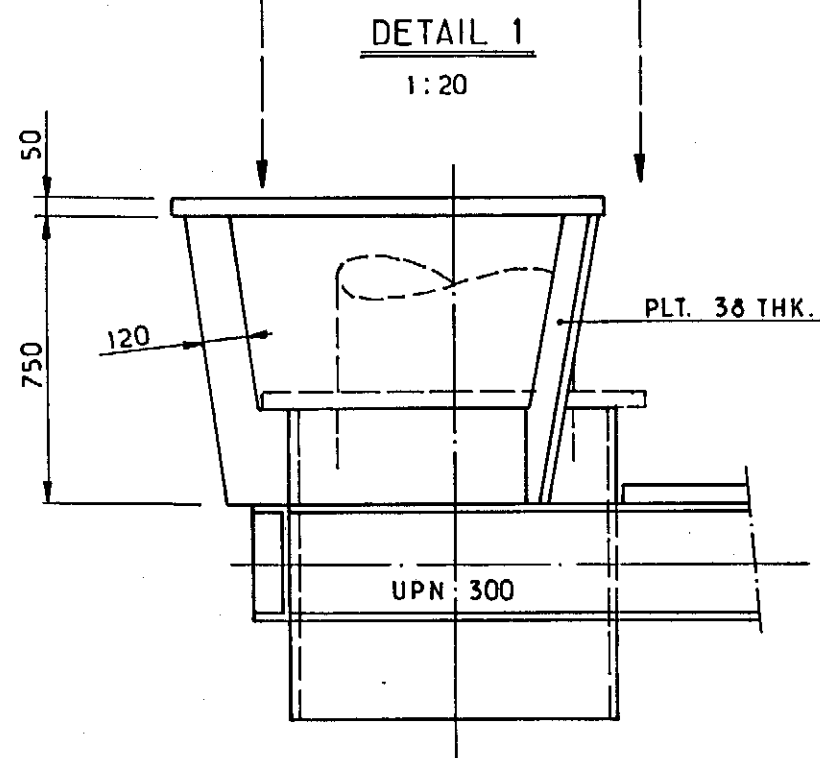
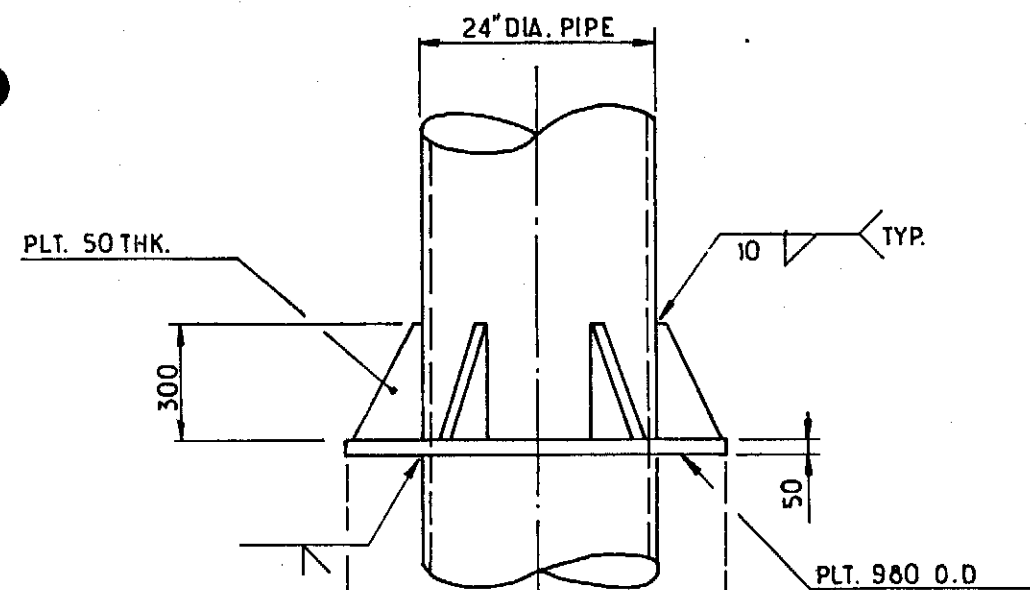
Job no.	installation CDP 1	System UNDERWATER
Scale 1/50	LOWER SUPPORT FOR 24" DIA MUD OUTFALL RISER 149	
Dwgr. no. FF 91-36-35 1525	Rev 1	Sheet

CDP 1 AS BUILT DRAWINGS

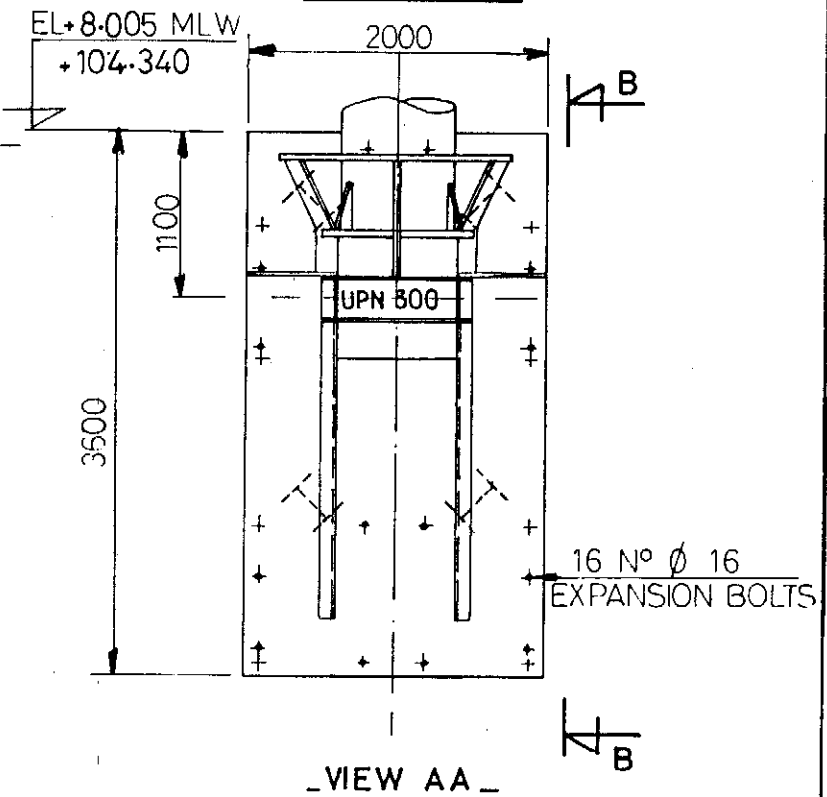
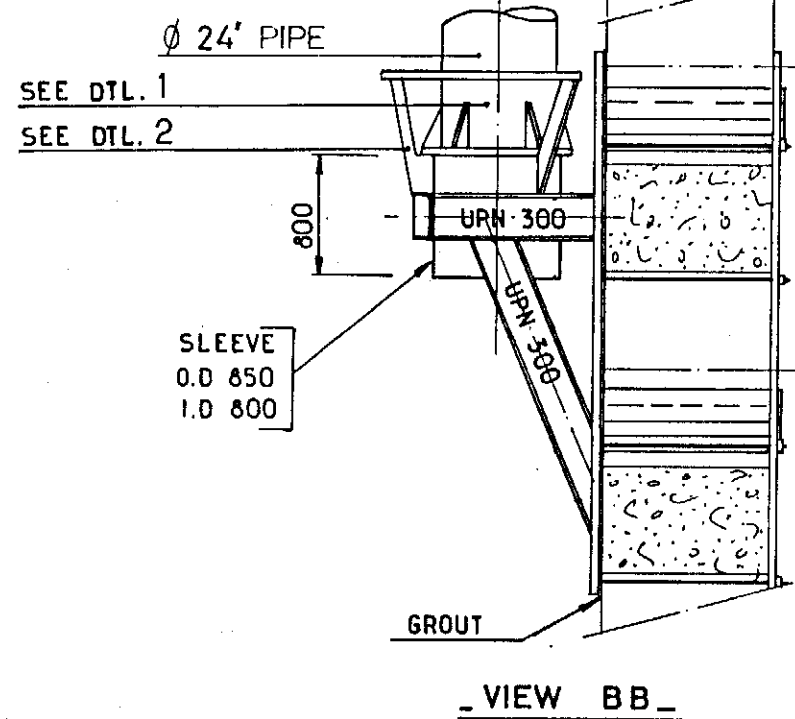
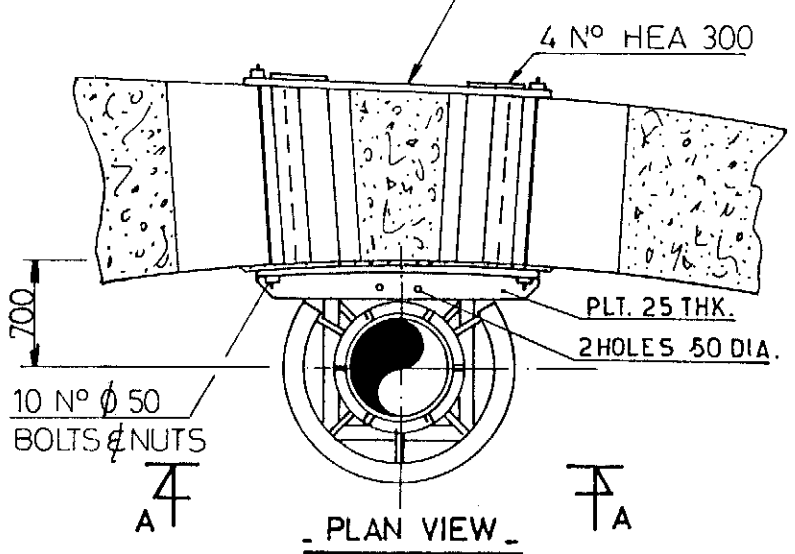
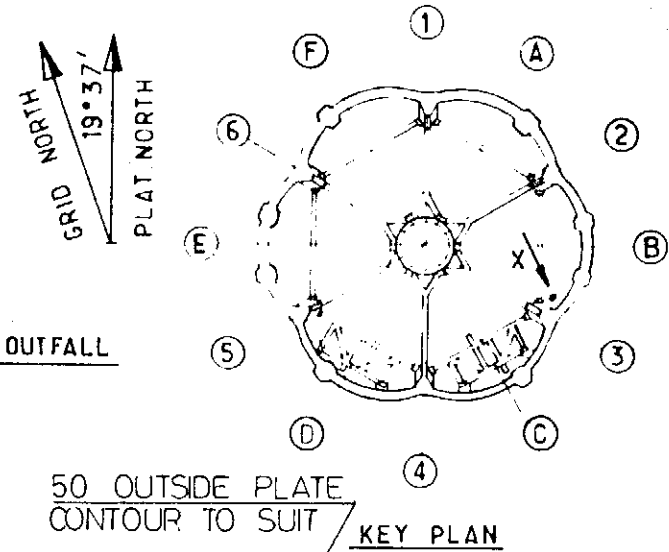
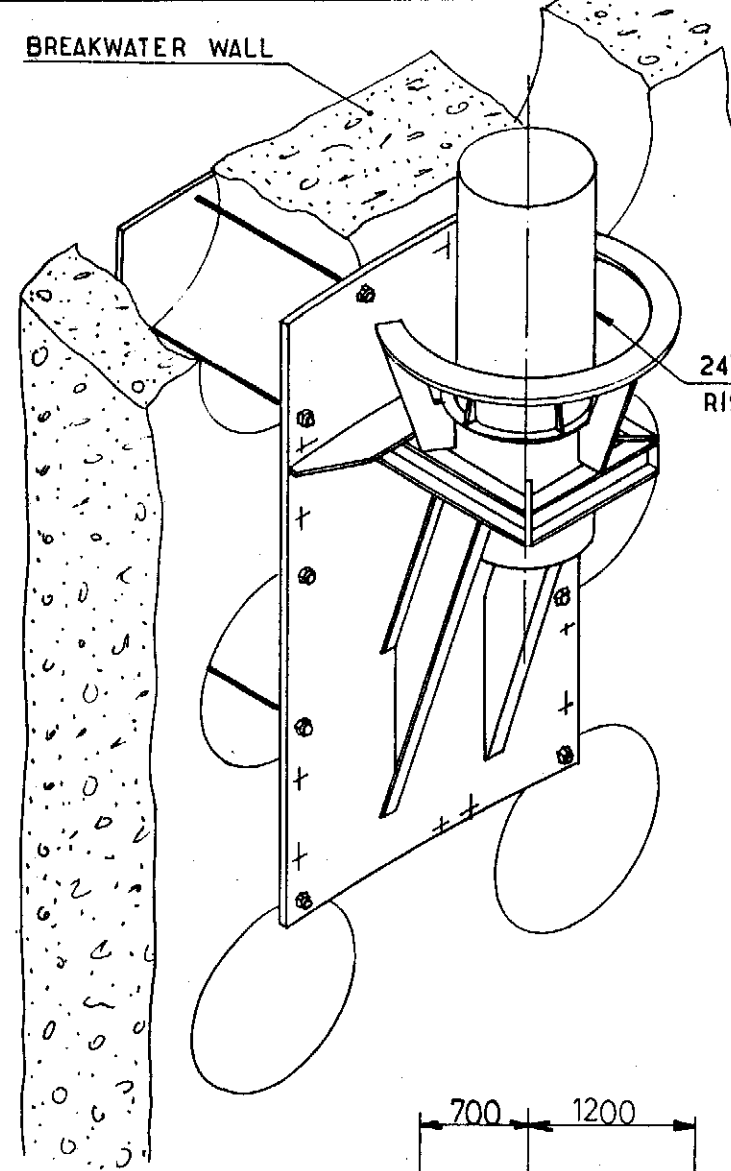
REFERENCE DRAWING LIST FOR: *UTILITY RISERS*

[illegible][illegible]

						Job no.	Installation CDP 1	System UNDERWATER	
						Scale			
Rev.	Date	DESCRIPTION	by	app.		Dwgr. no.			Rev.
Contractor					p.o.box 168 4001 Stavanger	FF	1525		/



DETAIL 2
1:20



NOTES

FOR LOCATION ON WALL SEE SK. FF 91-36-35-1141 to 1146
FOR BACKING PLATE DTL. _____ 1530

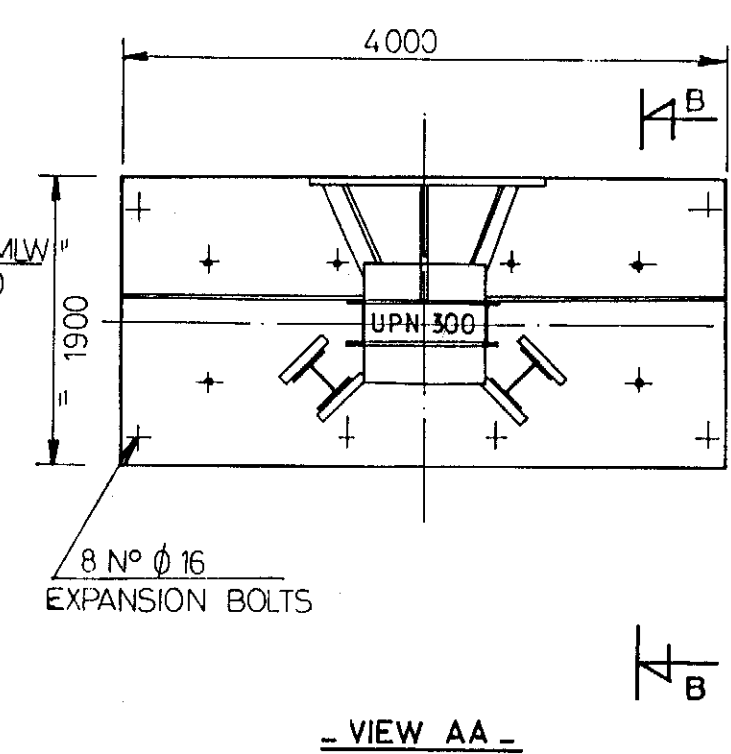
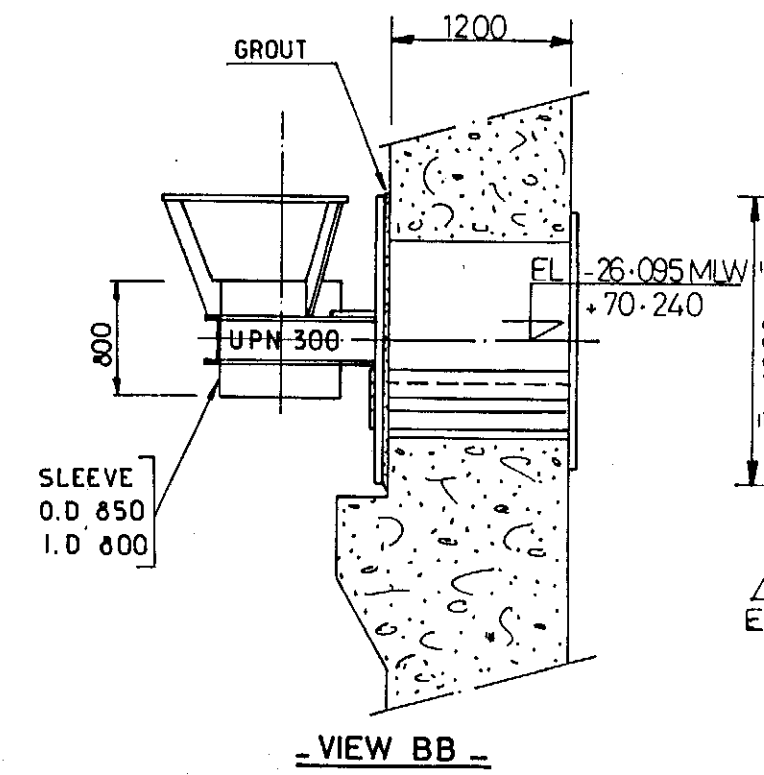
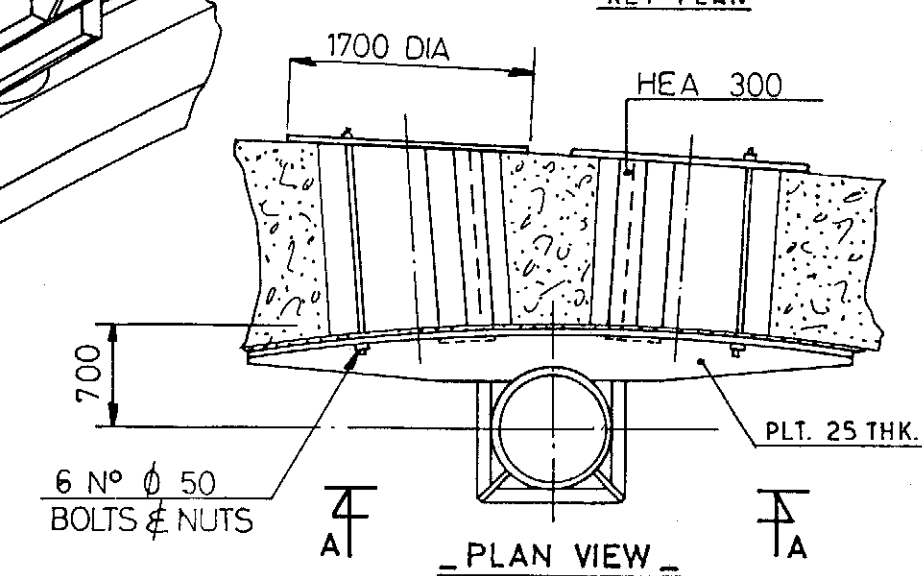
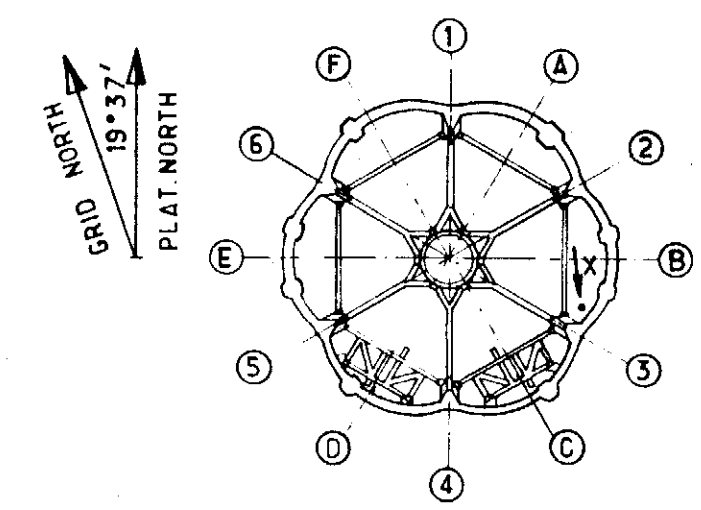
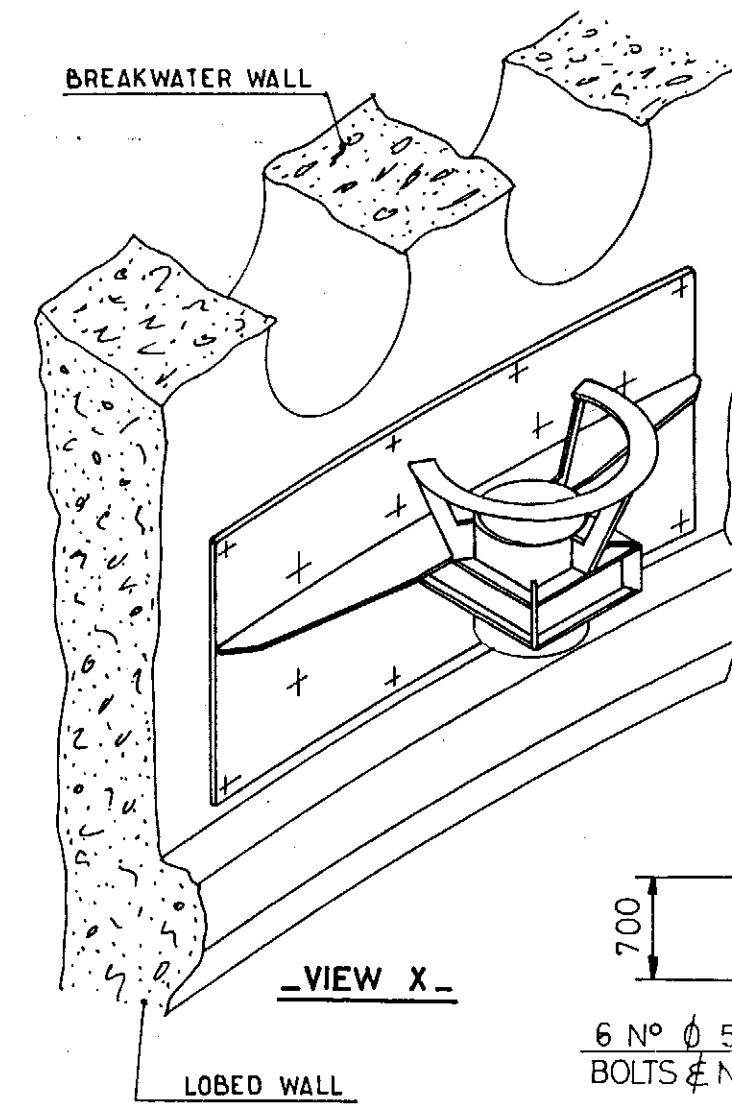
elf aquitaine norge a/s p.o. box 168 4001 Stavanger				Job no. Installation CDP 1		System UNDERWATER	
1	12-83	UPDATED	MLC	MLC	Scale 1/50	UPPER SUPPORT FOR 24" DIA MUD OUTFALL RISER 150	
Contractor JVD 1029-50-22				Dwgr. no FF 91-36-35-1526		1	

CDP 1 AS BUILT DRAWINGS

REFERENCE DRAWING LIST FOR: *UTILITY RISERS*

[illegible][illegible]

				elf aquitaine norge a/s p.o.box 168 4001 Stavanger	 elf	Job no.	Installation CDP 1	System UNDERWATER	
						Scale			
Rev.	Date	DESCRIPTION	by	app.	FRIGG FIELD	Dwgr. no.	Rev.		Sheet
Contractor						4001 Stavanger	FF	1526	



NOTES

FOR LOCATION ON WALL SEE SK. FF 91 36 35 1141 to 1146
 FOR BACKING PLATE DTL. 1531
 FOR ANODES LOCATION 1607 1608 1609

elf aquitaine norge a/s p.o. box 168 4001 Stavanger				elf		Job no.	Installation CDP 1	System UNDERWATER
1	12-83	UPDATED	W.C.	W.C.		Scale 1/50	LOWER SUPPORT FOR 24" DIA MUD OUTFALL RISER 150	
Rev.	Date	DESCRIPTION	by	app.		Dwgr. no.	FF 91-36-35 1527	Rev 1
Contractor JVD 1029 50-23				FRIGG FIELD		Sheet		

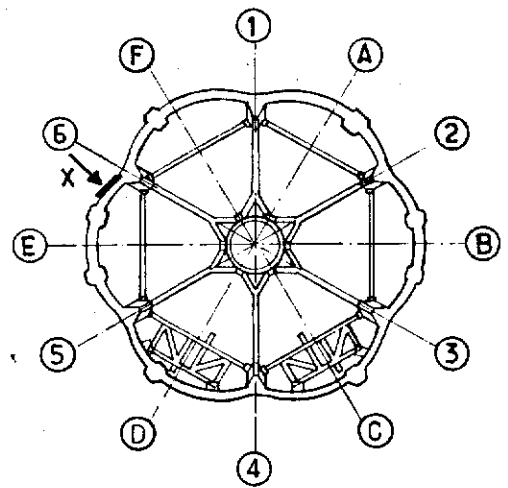
CDP 1 AS BUILT DRAWINGS

REFERENCE DRAWING LIST FOR: *UTILITY RISERS*

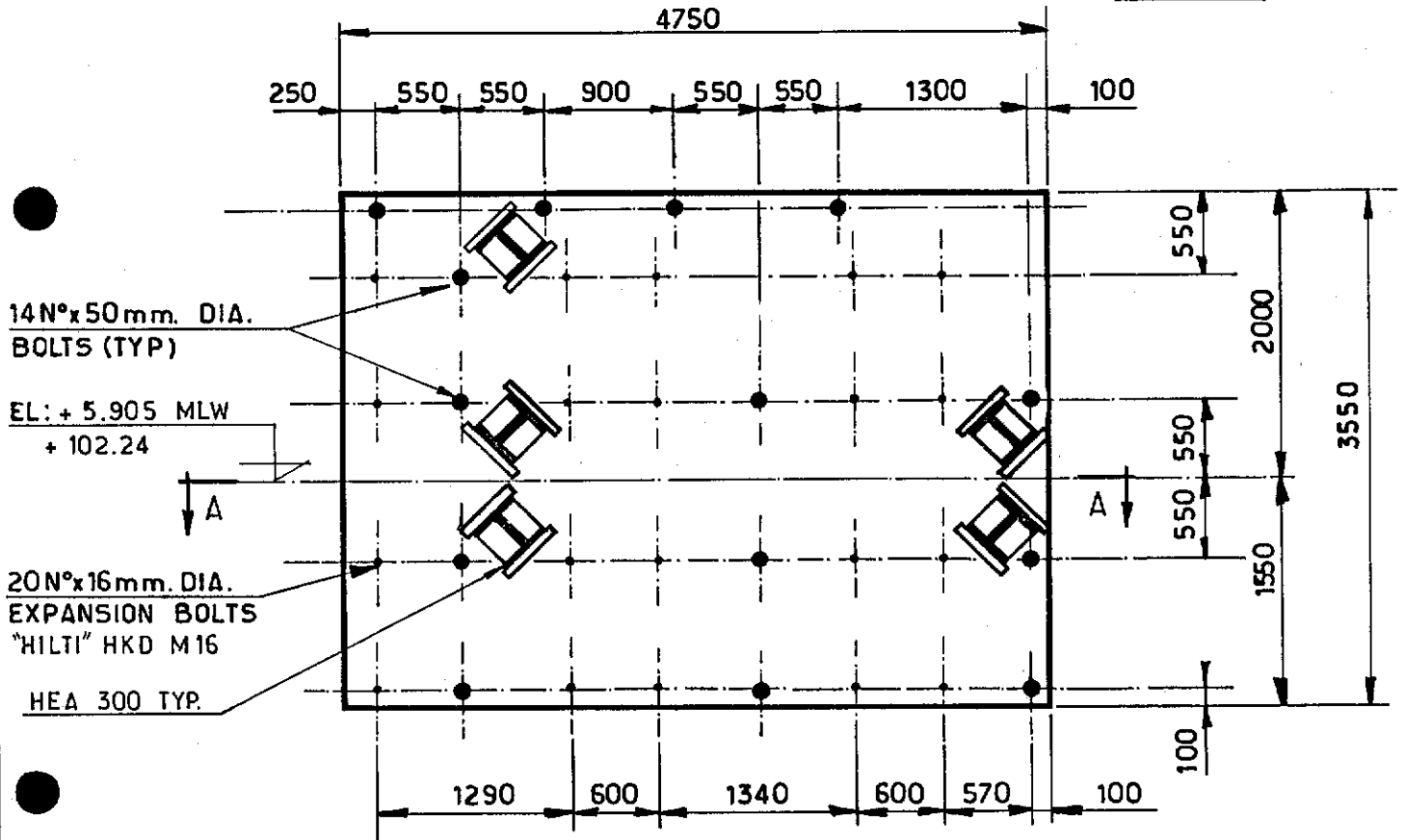
[illegible][illegible]

				elf aquitaine norge a/s		 elf		Job no.		Installation CDP 1		System UNDERWATER		
				p.o.box 168				Scale						
Rev.	Date	DESCRIPTION	by	app.	4001 Stavanger		FRIGG FIELD		Dwgr. no. FF		1527		Rev.	Sheet /
Contractor														

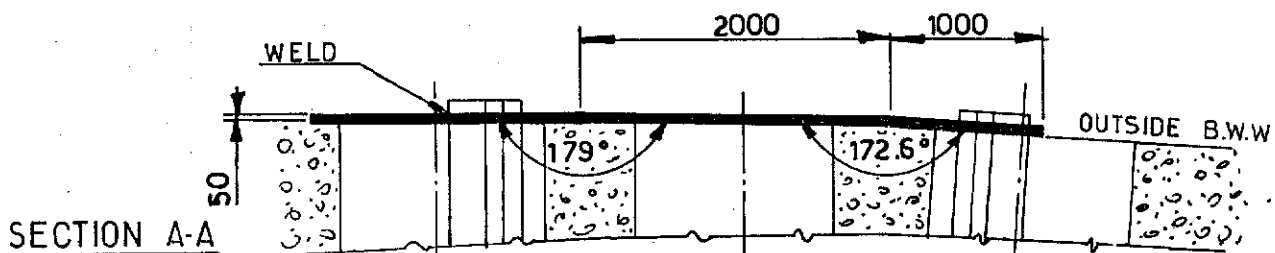
GRID NORTH
19°37'
PLAT. NORTH



KEY PLAN



VIEW X



NOTES

FOR LOCATION OF PLATE SEE SK. FF-91-36-35-1139

				elf aquitaine norge a/s		Job no.	Installation CDP 1	System UNDERWATER
1	11 83	UPDATING	JLC JLC	p.o.box 168		Scale 1:50	BACKING PLATE OF SUPPORT FOR 24" SEA WATER RISERS 146-147-148	
Rev.	Date	DESCRIPTION	by	app.		Dwgr. no.	Rev	Sheet
Contractor JVD 1029_50_24				4001 Stavanger		FF 91-36-35 1528	1	



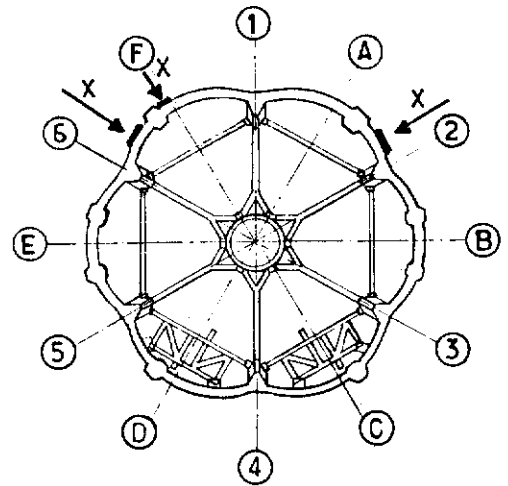
FRIGG FIELD

CDP 1 AS BUILT DRAWINGS

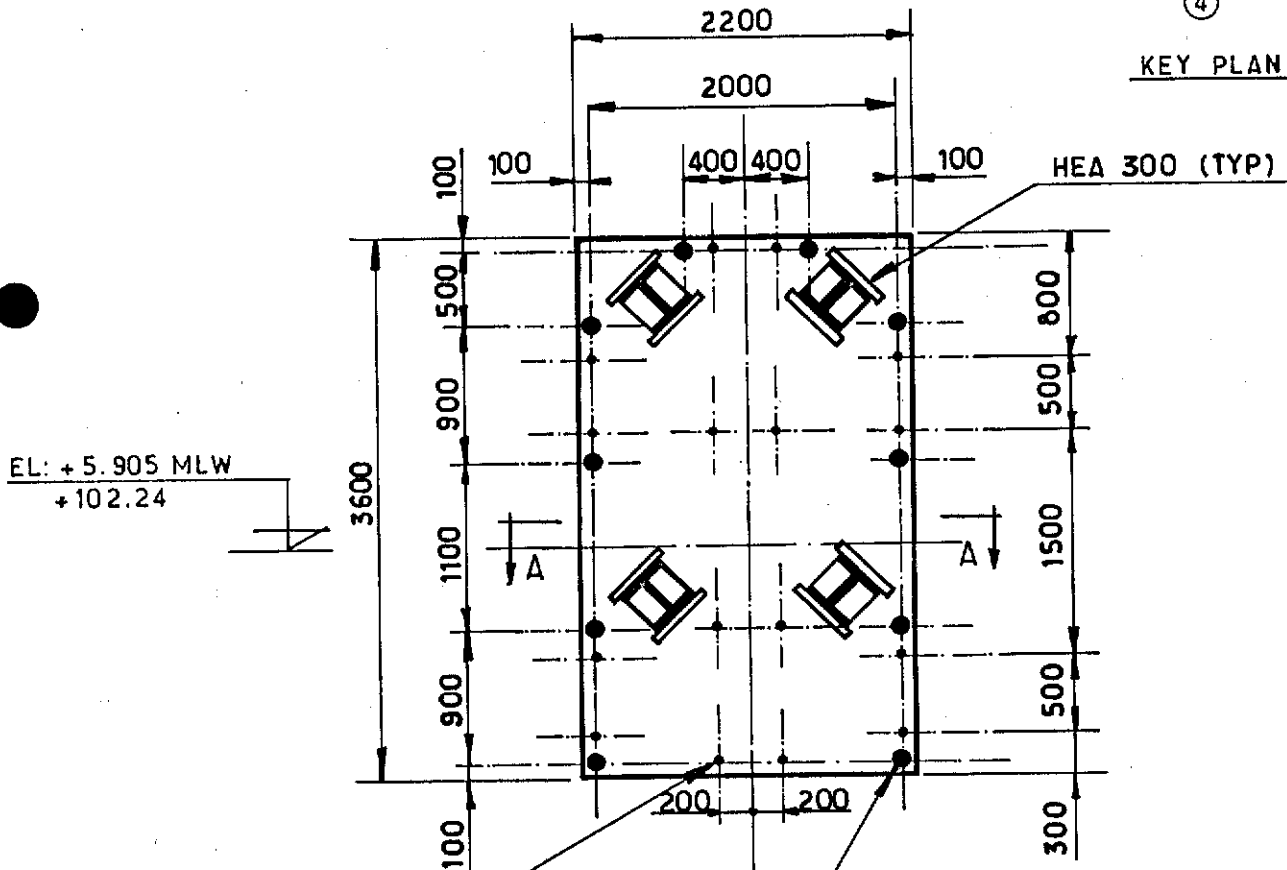
REFERENCE DRAWING LIST FOR: STEEL WORK EMBEDDED IN CONCRETE

[illegible][illegible][illegible]

GRID NORTH
19° 37'
PLAT. NORTH



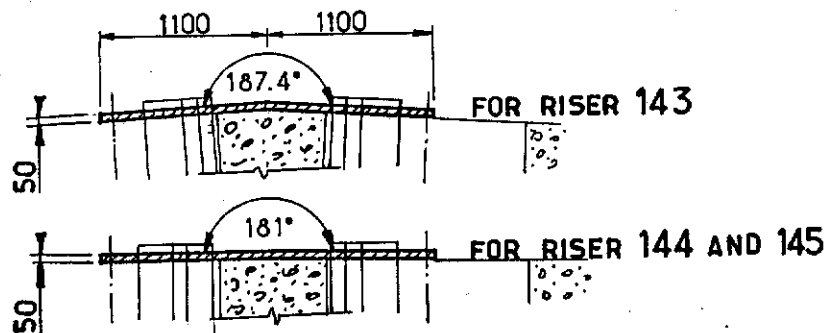
KEY PLAN



16 HOLES FOR 16 mm.
EXPANSION BOLTS
"HILTI" HKD M16

10 HOLES FOR 50 mm. BOLTS

VIEW X



SECTION A-A

NOTES FOR LOCATION OF PLATES SEE SK. FF 91-36-35-1135, 1140

					elf aquitaine norge a/s p.o.box 168 4001 Stavanger	 elf	Job no.	Installation CDP 1	System UNDERWATER		
1	11 83	UPDATED	HC	HC			Scale 1:50	BACKING PLATE OF SUPPORT FOR 30" FIRE WATER & SLOP RISERS 143-144-145			
Rev.	Date	DESCRIPTION	by	app.			Dwgr. no.	FF 91-36-35-1529		Rev 1	Sheet /
Contractor JVD 1029_50_25					4001 Stavanger		FRIGG FIELD				

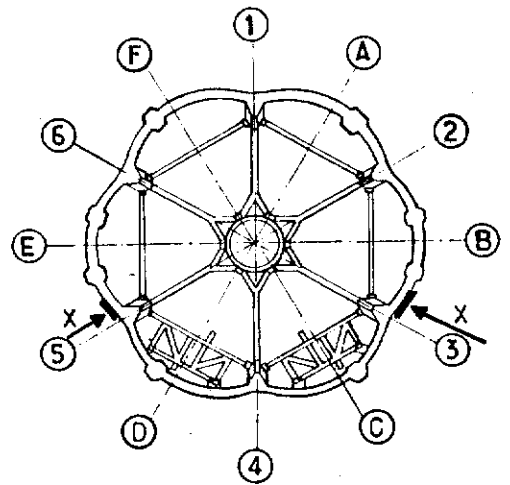
CDP 1 AS BUILT DRAWINGS

REFERENCE DRAWING LIST FOR: STEEL WORK EMBEDDED IN CONCRETE

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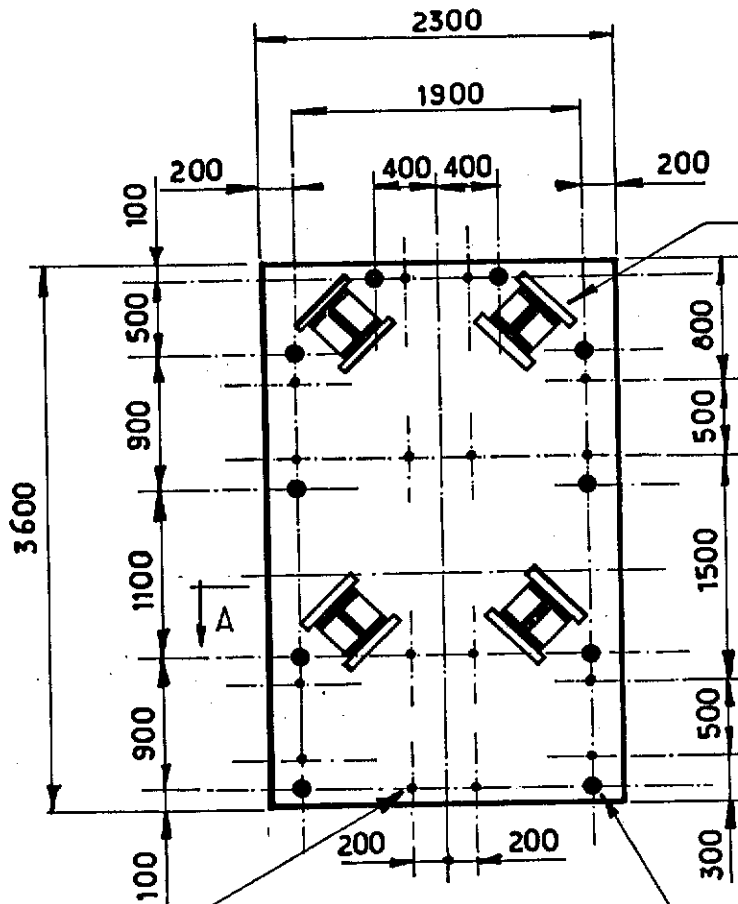
					elf aquitaine norge a/s p.o.box 168 4001 Stavanger	 elf	Job no.	Installation CDP 1	System UNDERWATER		
							Scale				
Rev.	Date	DESCRIPTION	by	app.	Contractor	FRIGG FIELD	Dwgr. no.	FF <u>1529</u>		Rev.	Sheet /

GRID NORTH
19°37'
PLAT. NORTH



KEY PLAN

HEA 300 (TYP)

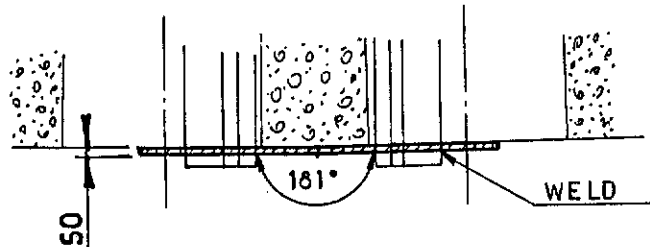


EL: + 5.905 MLW
+102.24

16 HOLES FOR 16 mm.
EXPANSION BOLTS
"HILTI" HKD M 16

VIEW X

10 HOLES FOR 50 mm. BOLTS



SECTION A-A

NOTES

FOR LOCATION OF PLATE SEE SK. FF 91-36-35-1136, 1139

					elf aquitaine norge a/s p.o.box 168 4001 Stavanger	 elf FRIGG FIELD	Job no.	Installation CDP 1	System UNDERWATER		
1	11-83	UPDATED	JLC	JLC			Scale 1:50	BACKING PLATE OF SUPPORT FOR 24" MUD OUTFALL RISERS 149-150			
Rev.	Date	DESCRIPTION	by	app.			Dwgr. no.	FF 91-36-35-1530		Rev 1	Sheet /
Contractor JVD 1029_50_26											

CDP 1 AS BUILT DRAWINGS

REFERENCE DRAWING LIST FOR: STEEL WORK EMBEDDED IN CONCRETE

[illegible][illegible]

					elf aquitaine norge a/s p.o.box 168 4001 Stavanger	 elf	Job no.	Installation CDP 1	System UNDERWATER	
							Scale			
Rev.	Date	DESCRIPTION	by	app.				Dwgr.no.	FF	<u>1530</u>
Contractor					FRIGG FIELD					

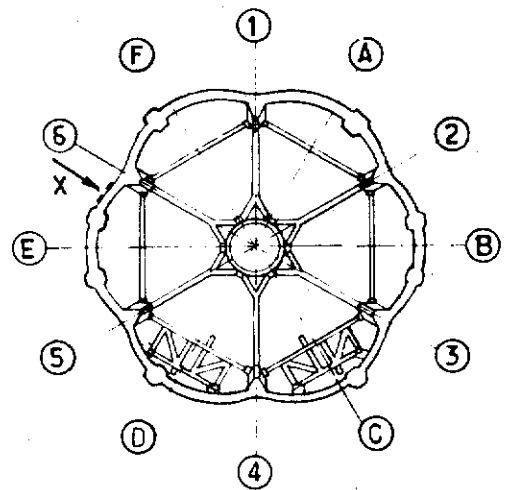
CDP 1 AS BUILT DRAWINGS

REFERENCE DRAWING LIST FOR: STEEL WORK EMBEDDED IN CONCRETE

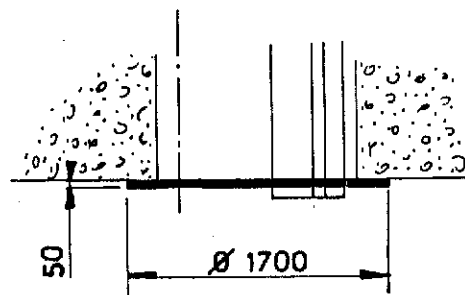
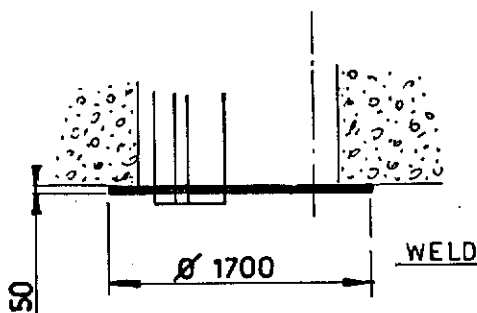
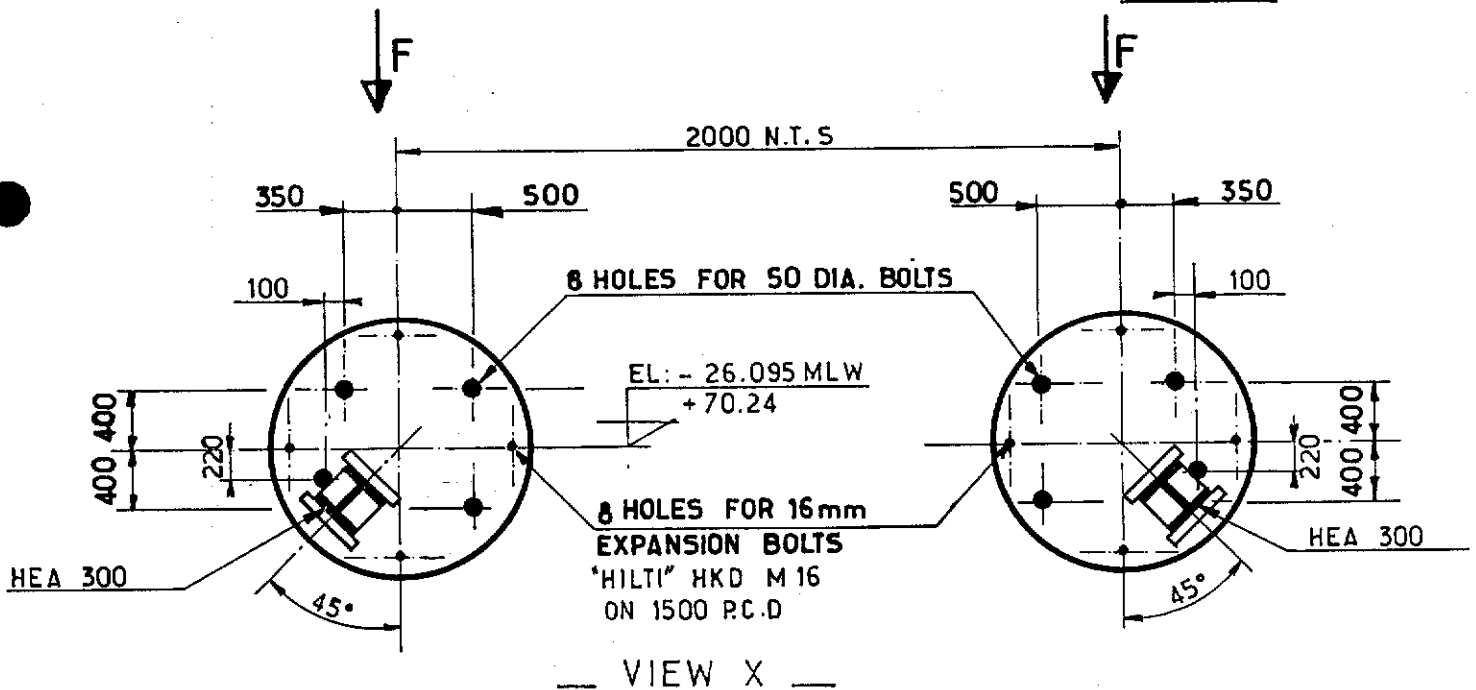
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					elf aquitaine norge a/s p.o.box 168 4001 Stavanger	 elf	Job no.	Installation CDP 1	System UNDERWATER		
							Scale				
Rev.	Date	DESCRIPTION	by	app.			Dwgr. no.	FF — 1531		Rev	Sheet /
Contractor						FRIGG FIELD					

GRID NORTH
19° 37'
PLAT. NORTH



KEY PLAN



VIEW F

NOTES

FOR LOCATION OF PLATES SEE SK. FF 91-36-35-1139
FOR CATHODIC PROTECTION 1602

					elf aquitaine norge a/s p.o.box 168 4001 Stavanger	 elf FRIGG FIELD	Job no.	Installation	System	
							CDP 1	UNDERWATER		
1	11 83	UPDATED	J-L	J-L			Scale	BACKING PLATE OF SUPPORT FOR		
Rev.	Date	DESCRIPTION	by	app.			1:50	UTILITY RISERS 146, 147, 148.		
Contractor JVD 1029_50-28						Dwgr. no.	FF 91-36-35-1532		Rev.	Sheet
									1	/

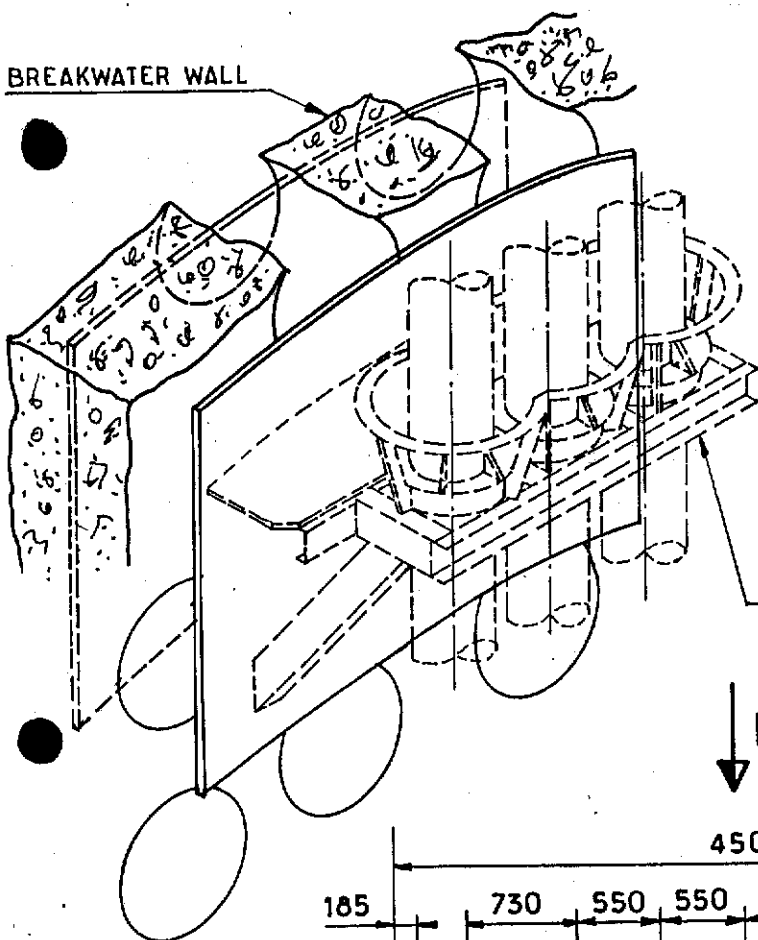
CDP 1 AS BUILT DRAWINGS

REFERENCE DRAWING LIST FOR: STEEL WORK

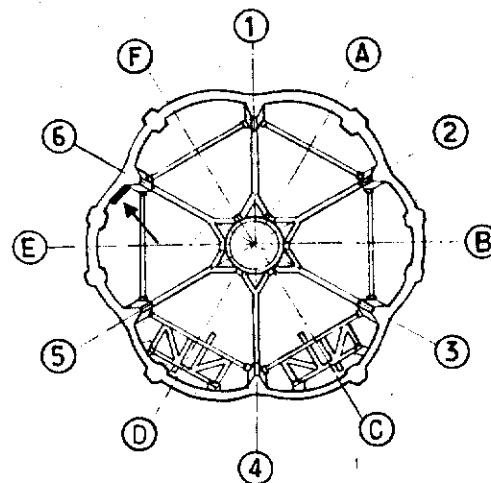
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							Scale				
Rev.	Date	DESCRIPTION	by	app.			Dwgr. no.	FF — 1532		Rev.	Sheet
Contractor						FRIGG FIELD					

BREAKWATER WALL

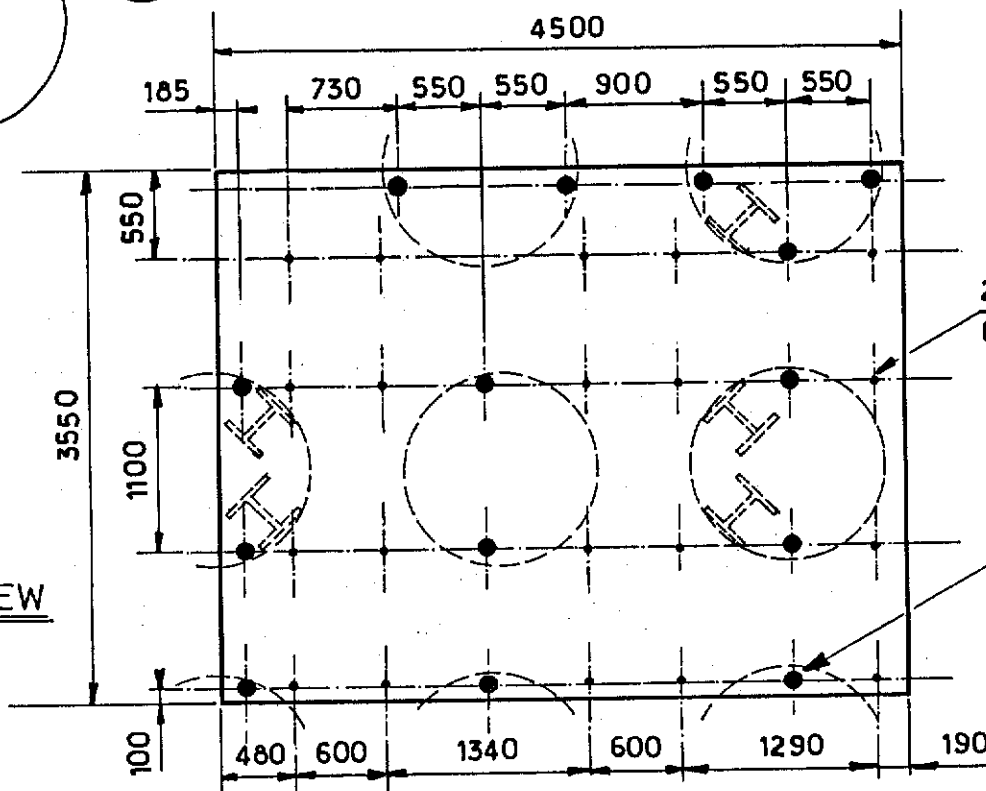


GRID NORTH
19° 37'
PLAT. NORTH



KEY PLAN

RISER SUPPORT

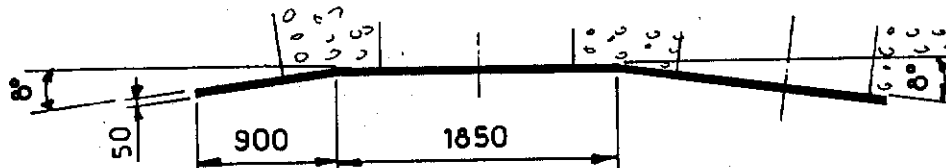


20N°x16 mm DIA.
EXPANSION BOLTS

14 N°x 50 mm. DIA. BOLT
(TYP)

FRONT VIEW

VIEW F



NOTES FOR DETAIL OF SUPPORT SEE SK. FF 91-36-35-1519

					elf aquitaine norge a/s p.o.box 168 4001 Stavanger	 elf	Job no.	Installation CDP 1	System UNDERWATER		
1	12-83	UPDATED	JLC	JLC			Scale 1: 50	BASE PLATE OF UPPER SUPPORT FOR 3x24" RISERS SW 146, 147, 148			
Rev.	Date	DESCRIPTION	by	app.			Dwgr. no.	FF 91-36-35-1533		Rev 1	Sheet /
Contractor JVD 1029-50-29						FRIGG FIELD					

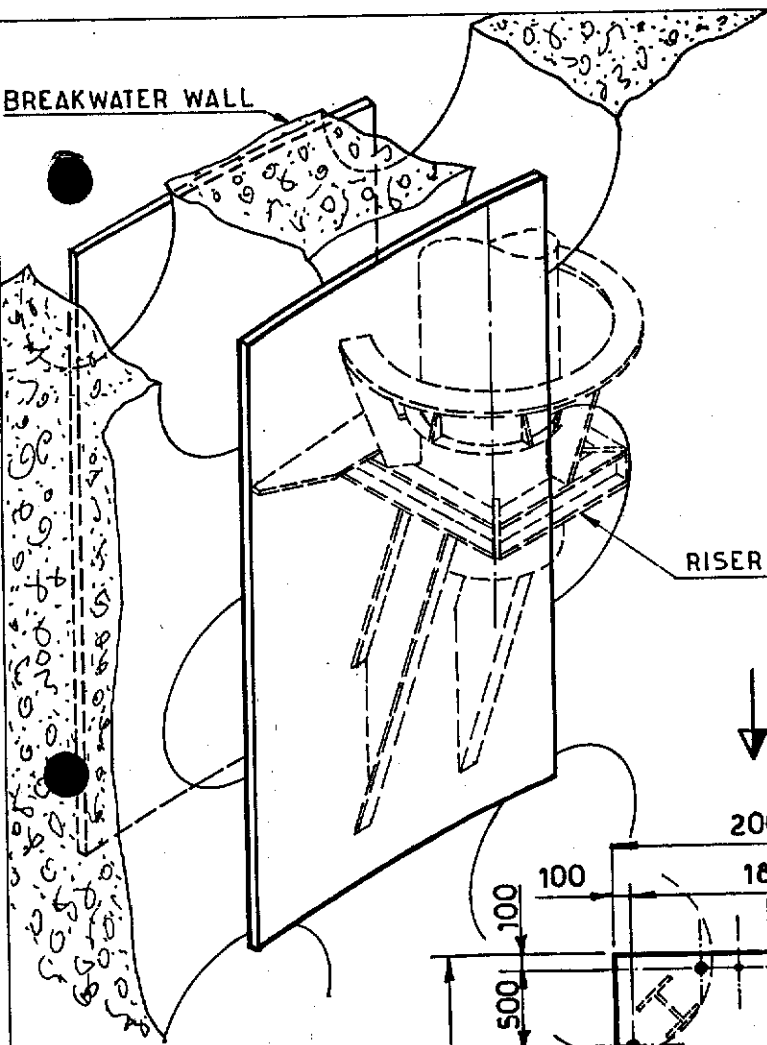
CDP 1 AS BUILT DRAWINGS

REFERENCE DRAWING LIST FOR: STEEL WORK EMBEDDED IN CONCRETE

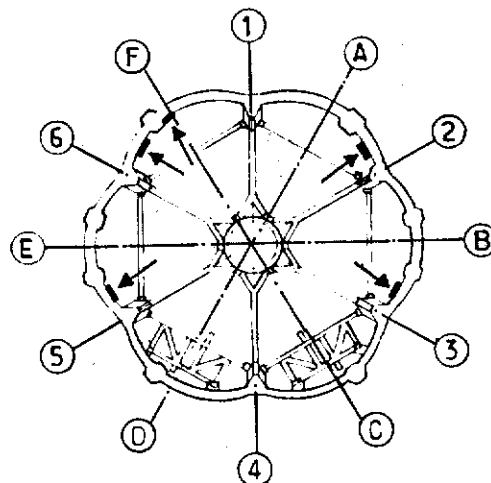
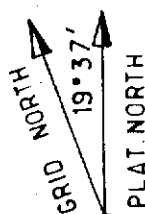
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					elf aquitaine norge a/s p.o.box 168 4001 Stavanger	 elf	Job no.	Installation CDP 1	System UNDERWATER		
							Scale				
Rev.	Date	DESCRIPTION	by	app.	FRIGG FIELD		Dwgr. no.	FF <u>1533</u>		Rev.	Sheet /
Contractor											

BREAKWATER WALL



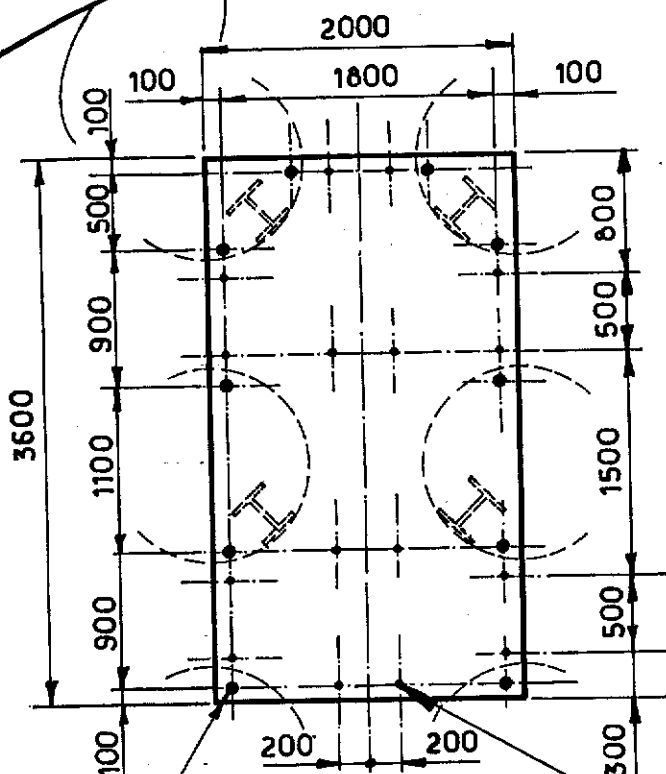
RISER SUPPORT



KEY PLAN



FRONT VIEW



10 HOLES FOR 50mm BOLTS

16 HOLES FOR 16 mm EXPANSION BOLTS

VIEW F

NOTES

FOR DETAIL OF SUPPORTS SEE SK. FF 91-36-35-1507, 1509, 1514, 1524, 1526.
FOR LOCATION OF BASE PLT. ————— 1141, 1142, 1145, 1146.

FOR LOCATION OF BASE PL.					elf			Job no.	Installation CDP 1	System UNDERWATER	
					aquitaine			Scale 1:50	BASE PLATE OF UPPER SUPPORT FOR RISERS 143. 144. 145. 149. 150		
1	12-83	UPDATED	JLC	JLC	norge a/s		elf	Dwgr. no.		Rev.	Sheet.
Rev.	Date	DESCRIPTION	by	app.	p.o. box 168			FF 91-36-35-1534	1	/	
Contractor JVD 1029-50-30					4001 Stavanger		FRIGG FIELD				

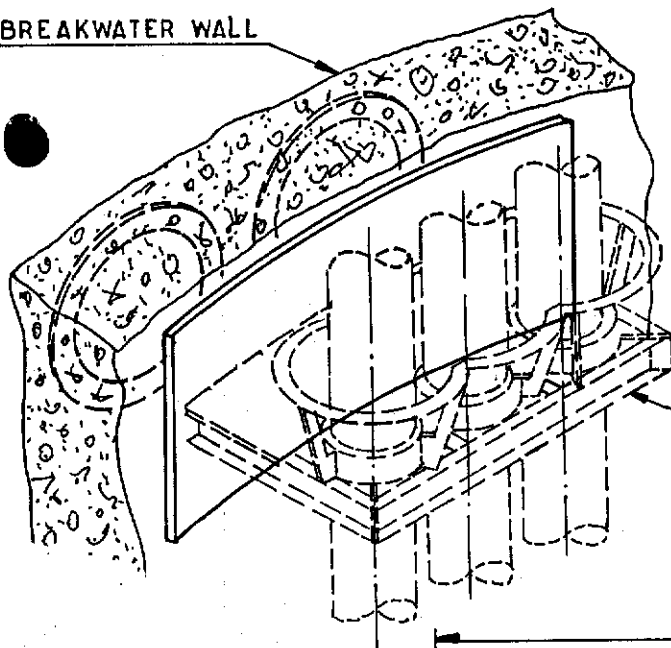
CDP 1 AS BUILT DRAWINGS

REFERENCE DRAWING LIST FOR: STEEL WORK EMBEDDED IN CONCRETE

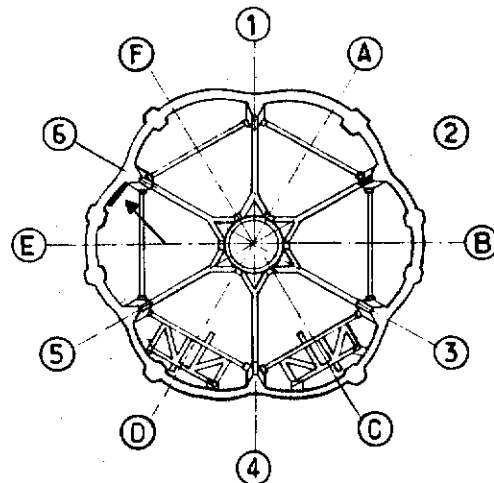
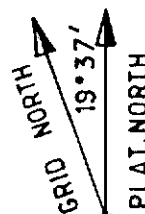
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								Scale					
Rev.		Date		DESCRIPTION		by		app.		Dwgr. no.		Rev.	
										FF		Sheet	
Contractor				4001 Stavanger		FRIGG FIELD		1534				/	

BREAKWATER WALL



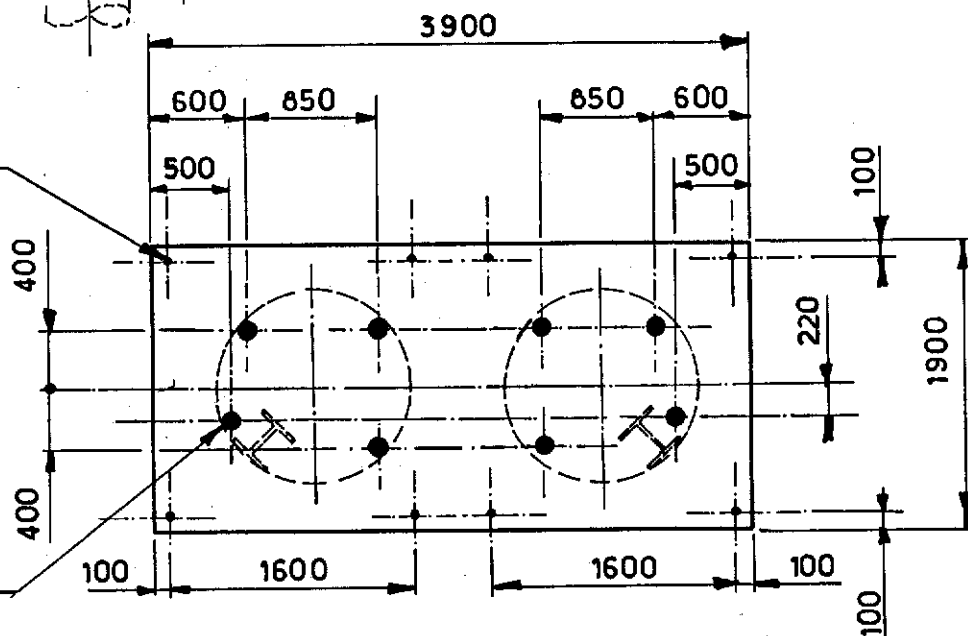
RISER SUPPORT



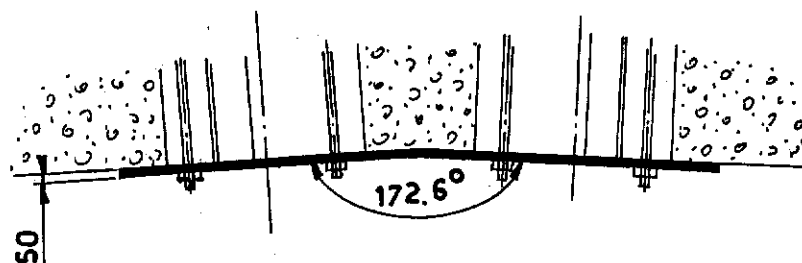
KEY PLAN

8 N° x 16mm
EXPANSION BOLTS

8 N° x 50mm DIA.
BOLTS (TYP)



FRONT VIEW



—VIEW F—

NOTES

- FOR RISER SUPPORT. DTL. SEE SK. FF 91-36-35-1520.
- FOR CATHODIC PROTECTION SEE SK. FF. 91. 36.35. 1601.

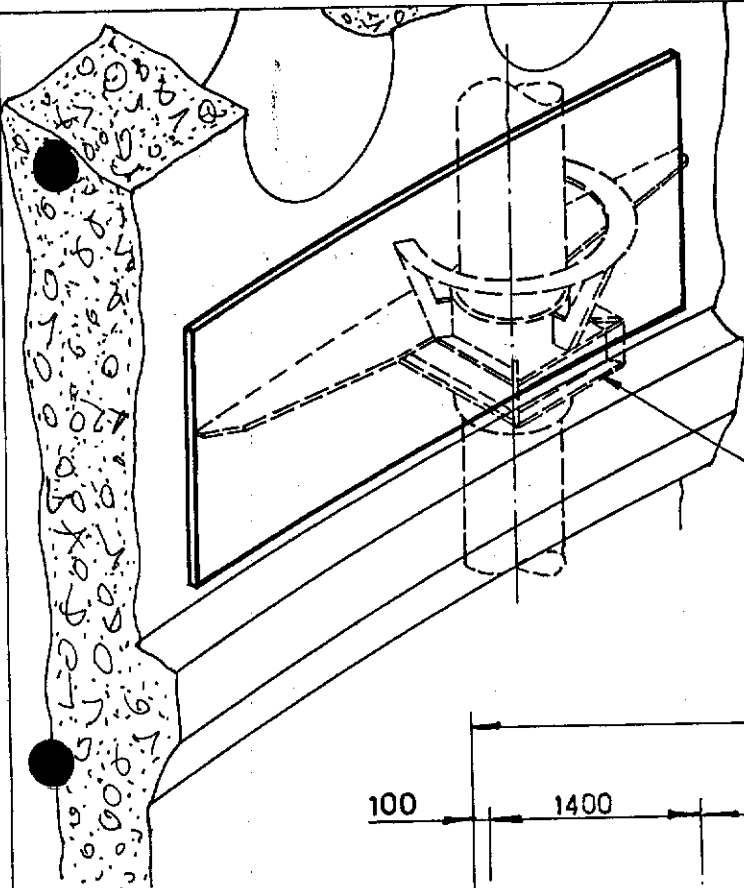
				elf aquitaine norge a/s		elf	Job no.	Installation CDP 1	System UNDERWATER
1	12-83	UPDATED	JAC	JAC	p.o. box 168		Scale 1:50	BASE PLATE OF LOWER SUPPORT FOR 3x24" RISERS SW 146-147-148	
Rev.	Date	DESCRIPTION	by	app.	4001 Stavanger		Dwgr. no.	FF 91-36-35-1535	Rev 1
Contractor JVD 1029-50-31				FRIGG FIELD			Sheet		

CDP 1 AS BUILT DRAWINGS

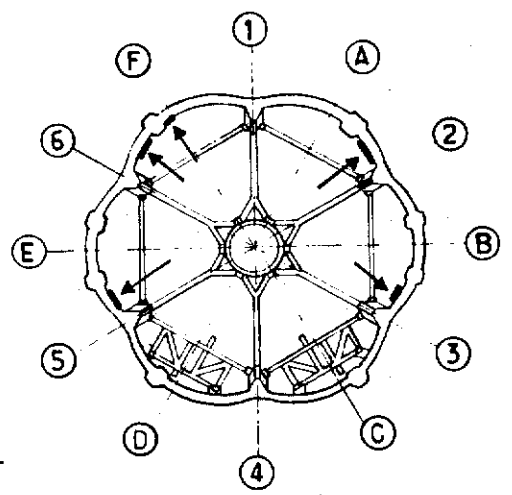
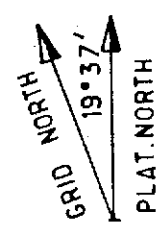
REFERENCE DRAWING LIST FOR: STEEL WORK EMBEDDED IN CONCRETE

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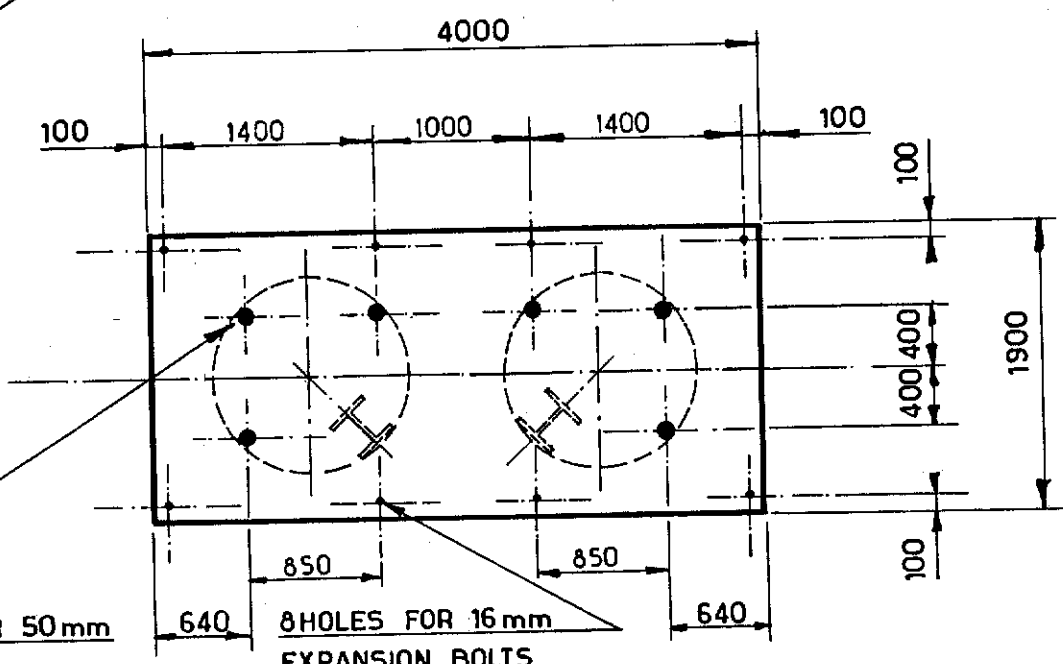
					 elf	Job no.	Installation CDP 1	System UNDERWATER		
						Scale				
Rev.	Date	DESCRIPTION	by	app.	 elf	Dwgr. no.	FF <u>1535</u>		Rev.	Sheet
Contractor						4001 Stavanger	FRIGG FIELD			/
elf aquitaine norge a/s p.o.box 168 4001 Stavanger										



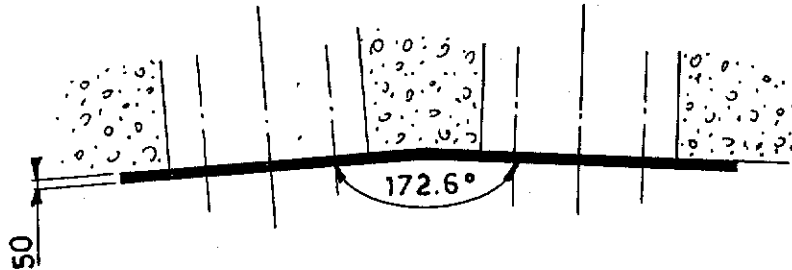
RISER SUPPORT



KEY PLAN



FRONT VIEW



VIEW F

NOTES

FOR RISER SUPPORT DTL. SEE SK. FF 91-36-35-1508, 1510, 1515, 1527, 1525.

				elf aquitaine norge a/s		Job no.		Installation CDP 1	System UNDERWATER
1	12-83	UPDATED	JVC JVC	p.o. box 168		Scale 1:50		BASE PLATE OF LOWER SUPPORT FOR RISERS 143-144-145-149-150	
Rev. Date DESCRIPTION by app.				Dwgr. no.		FF 91-36-35-1536		Rev.	Sheet
Contractor JVD 1029_50-32				4001 Stavanger		FRIGG FIELD		1	/

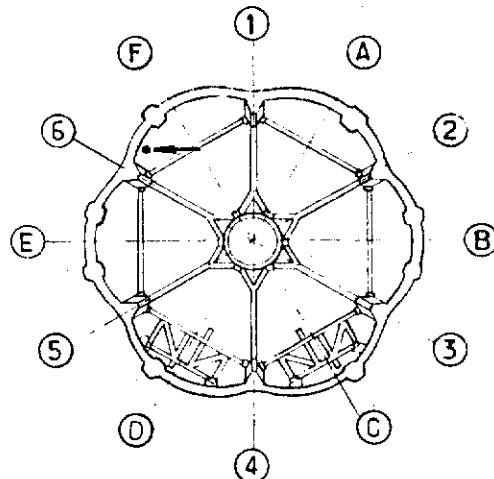
CDP 1 AS BUILT DRAWINGS

REFERENCE DRAWING LIST FOR: STEEL WORK EMBEDDED IN CONCRETE

[illegible][illegible]

					elf aquitaine norge a/s p.o.box 168 4001 Stavanger	 elf	Job no.	Installation CDP 1	System UNDERWATER		
							Scale				
Rev.	Date	DESCRIPTION	by	app.			Dwgr. no. FF — 1536	Rev.	Sheet /		
Contractor						FRIGG FIELD					

HIGH NORTH
19° 37'
PLAT. NORTH



KEY PLAN

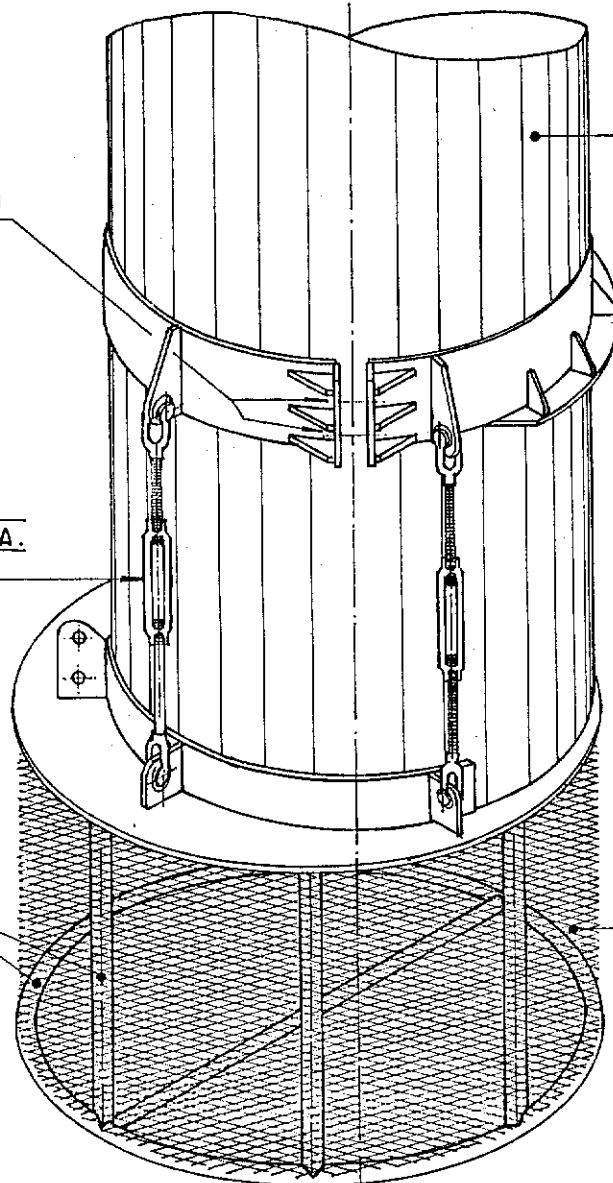
UTILITY RISER SW 144
30" DIA.

4 N° BOLTS Hm 20
LENGHT 120

CROSBY LAUGHLIN
TURNBUCKLE Ø 19 DIA.
FORK AND FORK

1 1/4" DIA. PIPE
SCH. 40

EXPANDED METAL



				elf aquitaine norge a/s			Job no.	Installation CDP 1	System UNDERWATER
1	01/84	REDRAWN		p.o. box 168			Scale	INLET SCREEN FOR RISER N° 144 - 30" DIA. FIREWATER	
Rev.	Date	DESCRIPTION	by	app.	4001 Stavanger		Dwgr. no.	FF 91-36-35-1537	1
Contractor JVD 1029_50_33				FRIGG FIELD					

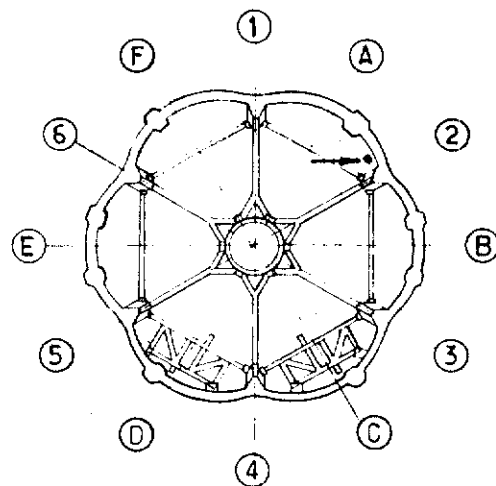
CDP 1 AS BUILT DRAWINGS

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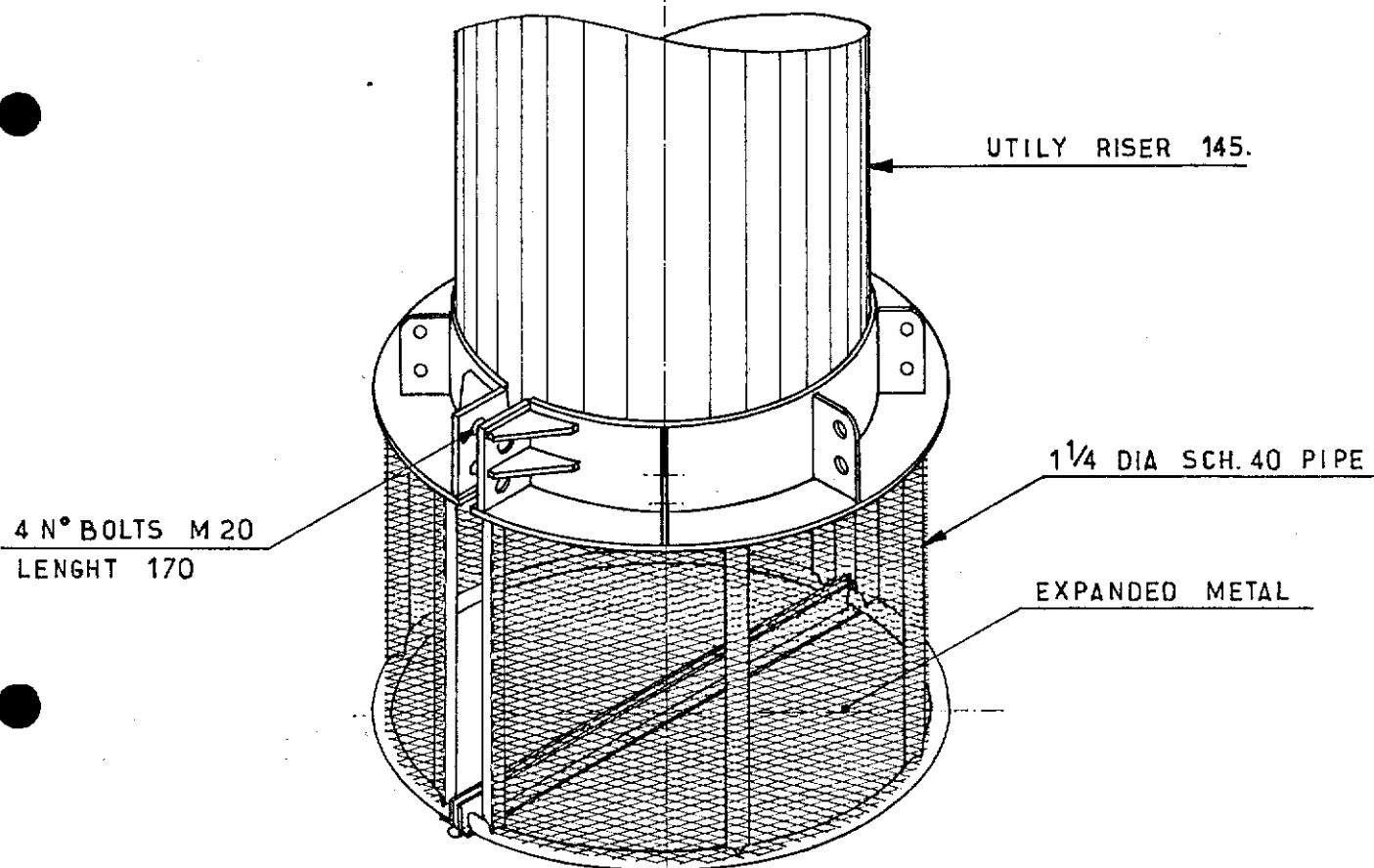
[illegible][illegible]

					elf aquitaine norge a/s p.o.box 168 4001 Stavanger	 elf	Job no.	Installation CDP 1	System UNDERWATER	
							Scale	INLET SCREEN FOR RISER № 144 - 30" - DIA FIREWATER		
Rev.	Date	DESCRIPTION	by	app.	Contractor JVD-1029. 50-33	FRIGG FIELD	Dwgr. no.		Rev.	Sheet
								FF 91-36-35-1537		/

GRID NORTH
19° 37'
PLAT. NORTH



KEY PLAN



ALL PLATES 10 mm THK.
MATERIAL - STEEL ST 37-2

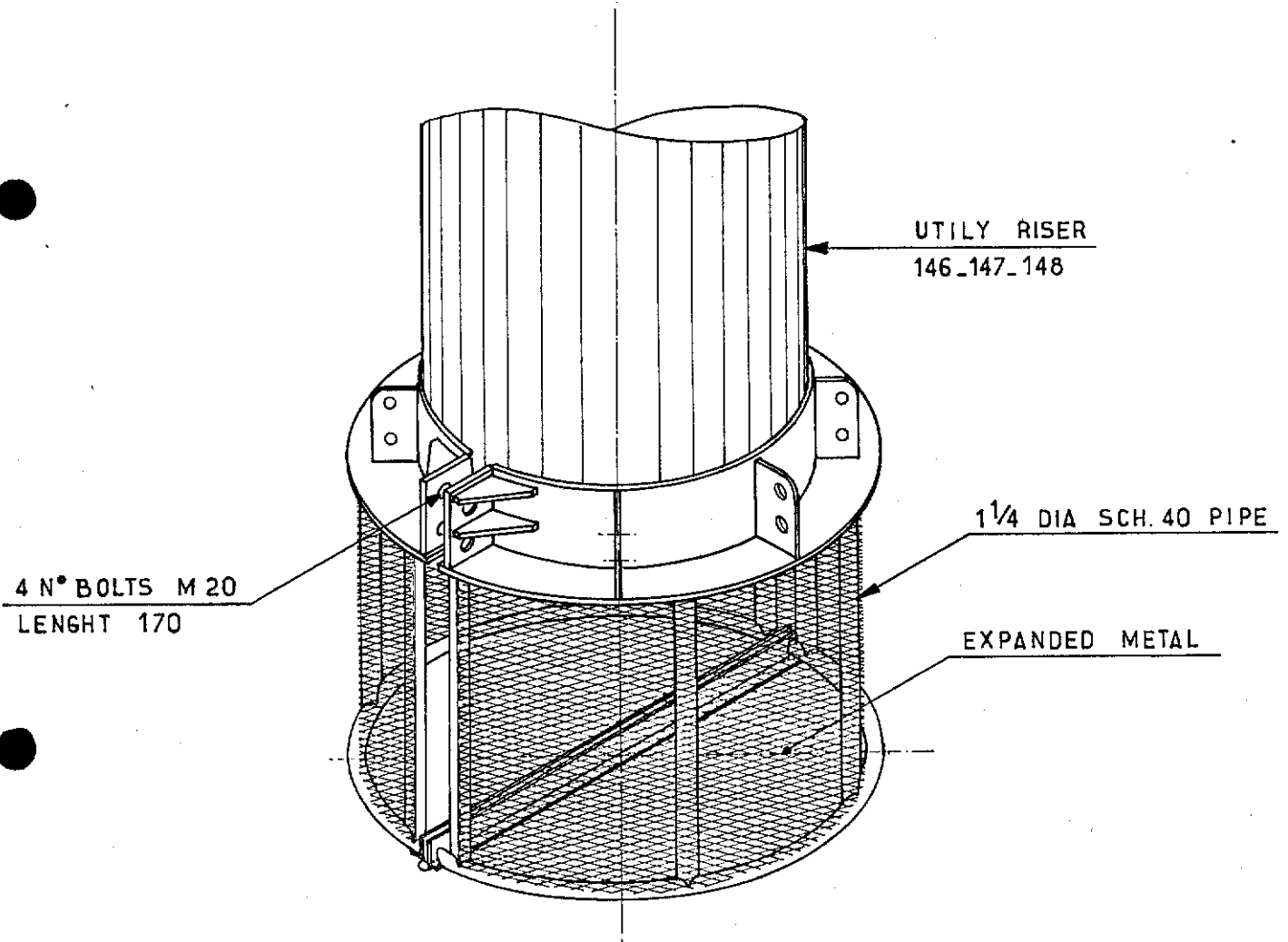
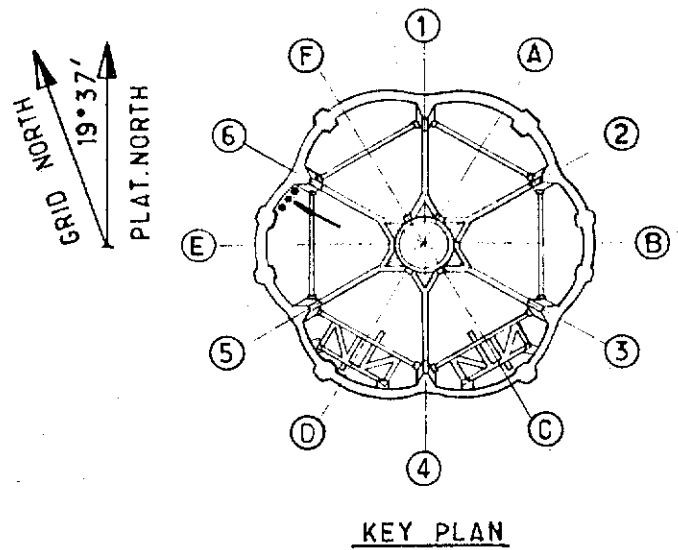
				elf aquitaine norge a/s p.o.box 168 4001 Stavanger	 elf	Job no.	Installation CDP 1	System UNDERWATER
1	01.84	REDRAWN	MIRA			Scale	INLET SCREEN FOR RISER N°145. 30" DIA. FIREWATER.	
Rev.	Date	DESCRIPTION	by	app.		Dwgr. no.	FF 91-36-35-1538.	Sheet 1
Contractor JVD 1029.50.34				FRIGG FIELD				

CDP 1 AS BUILT DRAWINGS

REFERENCE DRAWING LIST FOR:

[illegible][illegible]

						Job no.	Installation CDP 1	System UNDERWATER	
						Scale			
Rev.	Date	DESCRIPTION	by	app.		Dwgr. no.	Rev.		Sheet
Contractor JVD. 1029.-50-34						4001 Stavanger	FF 91-36-35-1538.	1.	



ALL PLATES 10 mm THK.
MATERIAL _ STEEL ST 37-2

1		01.84	REDRAWN	MIRA	elf aquitaine norge a/s		Job no.		Installation CDP 1		System UNDERWATER		
Rev.		Date	DESCRIPTION	by	app.	p.o.box 168		Scale		INLET SCREEN FOR RISERS N°146_147_148. 24" DIA SEAWATER.			
Contractor		JVD 1029_50_35		4001 Stavanger		FRIGG FIELD		Dwgr. no.		FF 91-36-35-1539		Rev 1	Sheet /

CDP 1 AS BUILT DRAWINGS

REFERENCE DRAWING LIST FOR:

[illegible][illegible]

						elf aquitaine norge a/s p.o.box 168 4001 Stavanger		Job no.	Installation CDP 1	System UNDERWATER	
								Scale			
Rev.	Date	DESCRIPTION	by	app.				Dwgr. no.		Rev.	Sheet
Contractor JVD 1029 - 50 - 35						4001 Stavanger	FRIGG FIELD	FF 91-36-35-1539		1.	/

6. PIPING AND INSTRUMENTATION

DRAWING TITLE

E.A.N DRAWING No

- SYMINEX RISERS -

- GENERAL DEVELOPED VIEW FROM INSIDE BWV	FF 91 36 35 - 1545
- PLATFORM SUPPORT AT LEVEL + 107 M CELL "F"	FF 91 36 35 - 1546
- PLATFORM SUPPORT AT LEVEL + 105 M CELL "E"	FF 91 36 35 - 1547
- TYPICAL SUPPORT CELL "E" TYPE "B"	FF 91 36 35 - 1548
- TYPICAL SUPPORT CELL "F" TYPE "A"	FF 91 36 35 - 1549
- TYPICAL SUPPORT CELL "F" TYPE "B"	FF 91 36 35 - 1550
- CLAMP DETAIL	FF 91 36 35 - 1551
- ANTI-ROTATING DETAIL	FF 91 36 35 - 1552
- FIXATION THROUGH JARLAN HOLE DETAIL	FF 91 36 35 - 1553
- RESERVED	FF 91 36 35 - 1554
- RESERVED	FF 91 36 35 - 1555
- RESERVED	FF 91 36 35 - 1556
- RESERVED	FF 91 36 35 - 1557
- RESERVED	FF 91 36 35 - 1558
- RESERVED	FF 91 36 35 - 1559

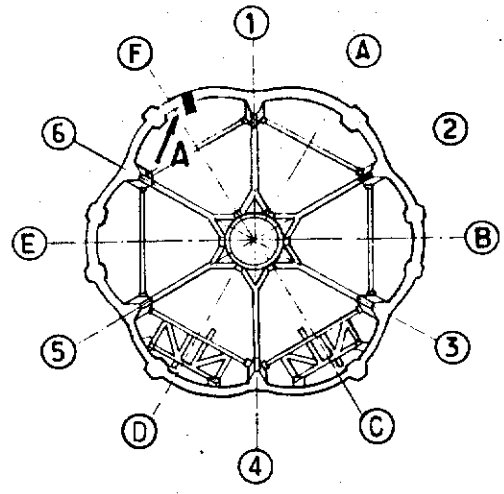
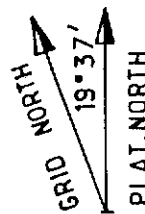
CDP 1 AS BUILT DRAWINGS

REFERENCE DRAWING LIST FOR: PIPING AND ELECTRICAL

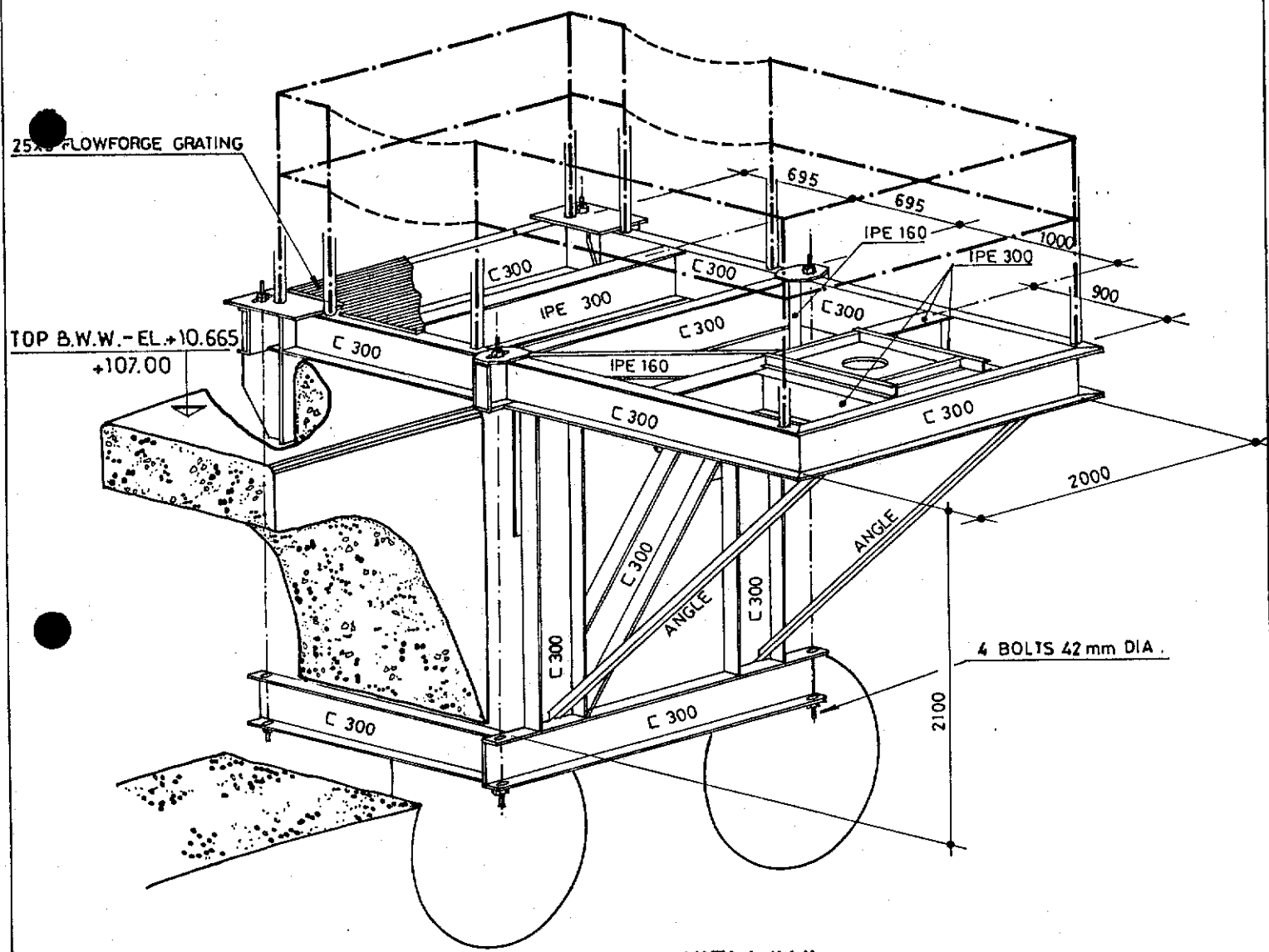
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ELF DRAWING NUMBER	REVISION		TITLE
	Index	Date	
FF 91-36-35-1009	-	5-79	GENERAL VIEW OF 8" INSTRUMENTATION PIPE SUPPORT CELL E & F
FF 91-36-35-1011	-	5-79	DETAIL SUPPORT CELLS E, F, A
FF 91-36-33-1017	-	7-79	PIPE SUPPORT UPPER ANTI-ROTATING DEVICE

					elf aquitaine norge a/s p.o.box 168 4001 Stavanger	 elf	Job no.	Installation CDP 1	System UNDERWATER	
1	10/83	UPDATED					Scale	GENERAL DEVELOPED VIEW SYMINEX RISER SUPPORTS		
Rev.	Date	DESCRIPTION	by	app.			Dwgr. no.		Rev.	Sheet
Contractor JVD-1029-60-01					4001 Stavanger	FRIGG FIELD	EE 91-36-35-1545		1	/



KEY PLAN



VIEW "A"

NOTES : - FOR LOCATION OF THE PLATFORM SEE SK.FF.91.36.35.1146

				elf aquitaine norge a/s p.o.box 168 4001 Stavanger	 elf	Job no.	Installation CDP 1	System UNDERWATER	
1	10/83	UPDATED	mir J-LC			Scale —	SYMINEX RISER . PLATFORM SUPPORT AT LEVEL +107.00m. CELL. " F "		
Rev.	Date	DESCRIPTION	by	app.		Dwgr. no.	FF 91_36_35_1546	Rev. 1	Sheet —
Contractor JVD 1029_60_02				FRIGG FIELD					

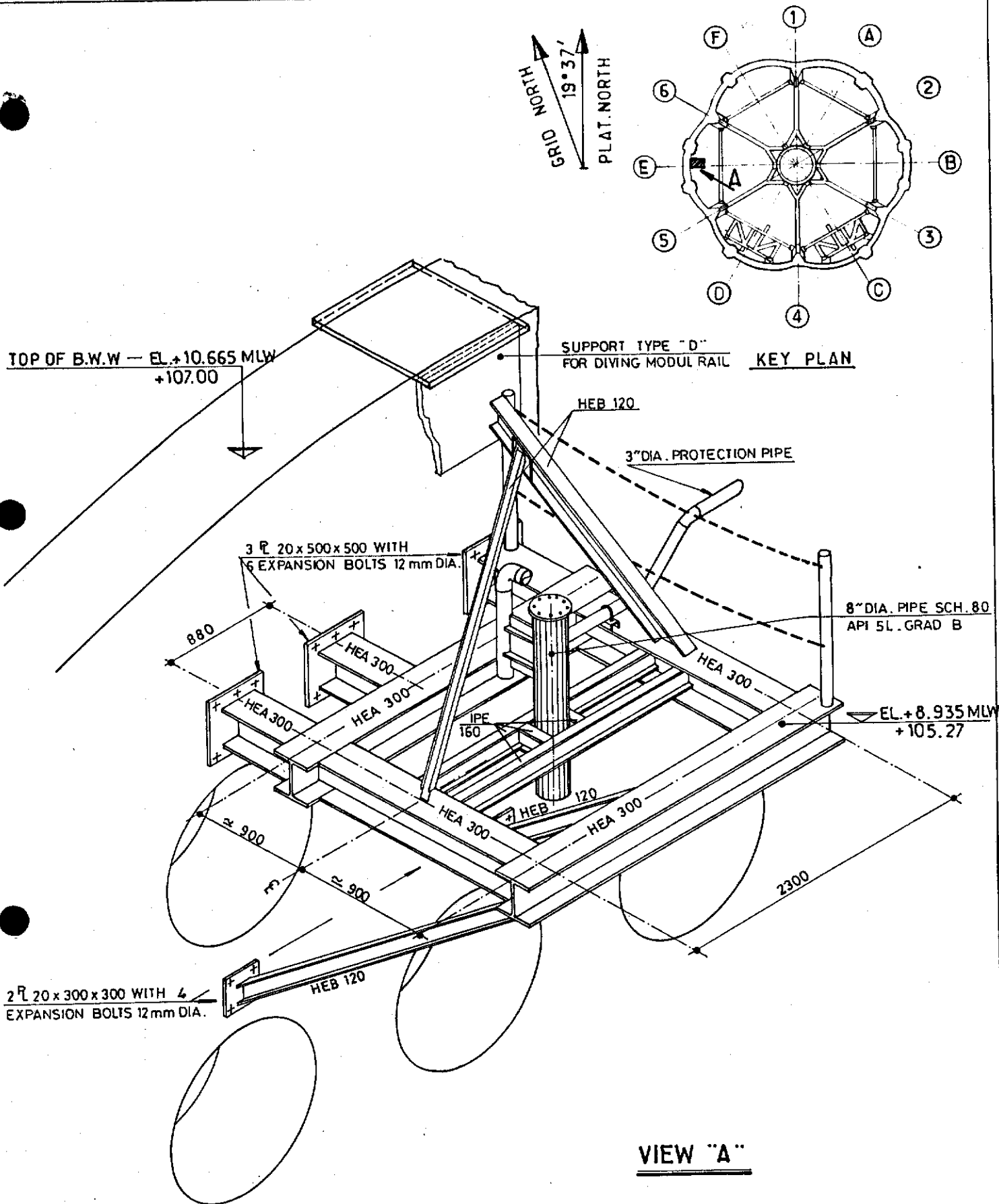
Form 103-318

CDP 1 AS BUILT DRAWINGS

REFERENCE DRAWING LIST FOR: SYMINEX RISERS

[illegible][illegible]

						 elf	Job no.	Installation CDP 1	System UNDERWATER
1	10/83	UPDATED					Scale	SYMINEX RISER - PLATFORM SUPPORT AT LEV. +107.00 CGL 'F'	
Rev.	Date	DESCRIPTION	by	app.			Dwgr. no.	FF 91.36-35-1546	Rev. 1
Contractor JVD 1029-60-02						4001 Stavanger	FRIGG FIELD		



NOTES : _ FOR LOCATION OF PLATFORM SEE SK. FF.91.36.35.1145
 _ FOR SUPPORT TYPE "D" SEE SK. F.F. 91.36.35.

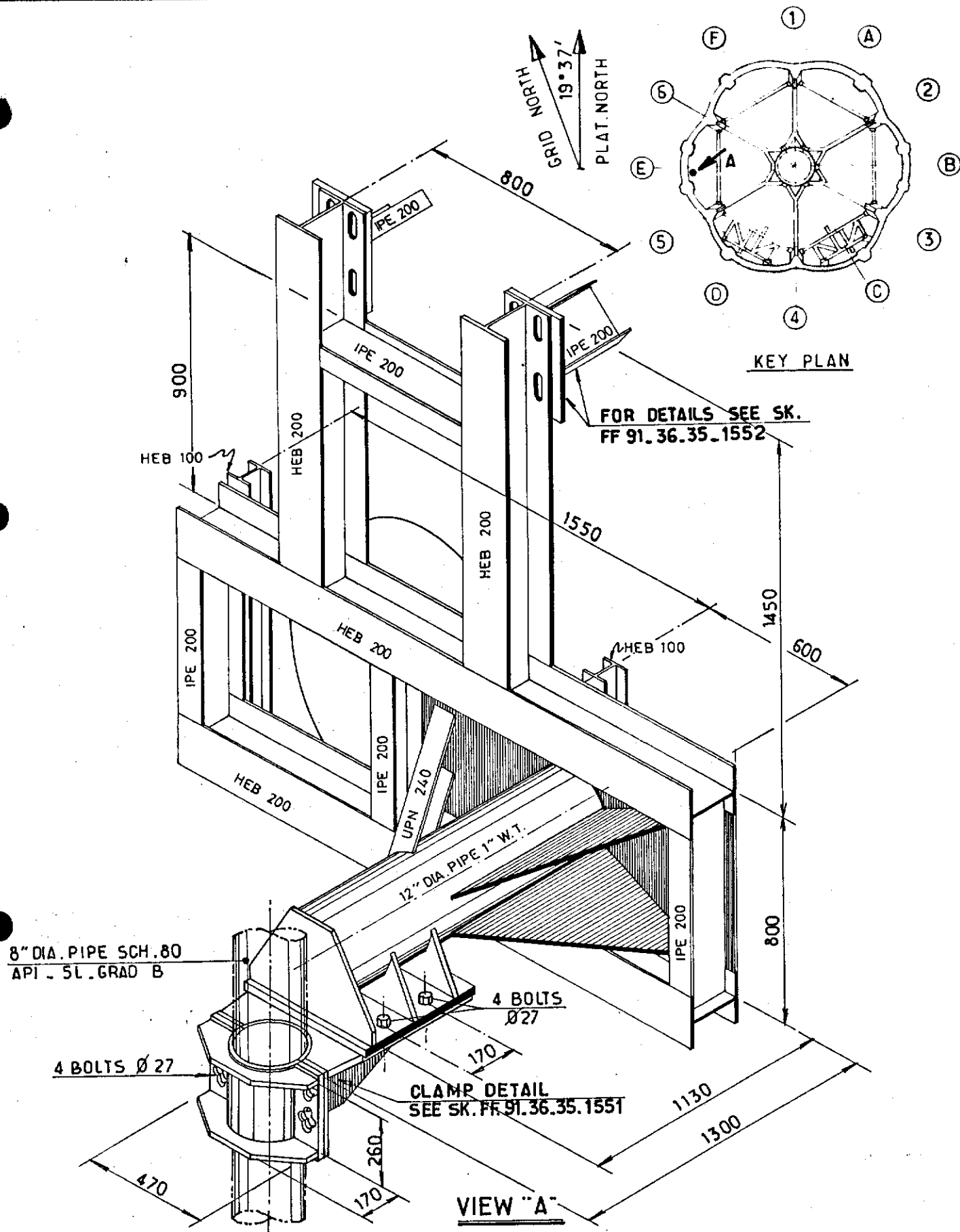
				elf aquitaine norge a/s p.o.box 168 4001 Stavanger	 elf	Job no.	Installation CDP 1	System UNDERWATER	
1	10/83	UPDATED	mind JLC			Scale —	SYMINEX RISER - PLATFORM SUPPORT AT LEVEL +107.00m FOR 8" DIA. CELL. "E"		
Rev.	Date	DESCRIPTION	by	app.		Dwgr. no.	FF 91_36_35.1547	Rev 1	Sheet /
Contractor JVD 1029_60- 03					FRIGG FIELD				

CDP 1 AS BUILT DRAWINGS

REFERENCE DRAWING LIST FOR:

[illegible][illegible]

							Job no.	Installation CDP 1	System UNDERWATER
1	10/83	UPDATED					Scale	SYMINEX DISER. PLATFORM SUPP. AT LEV. +107.00 - FOR 8" DIA. CELL. "E"	
Rev.	Date	DESCRIPTION	by	app.			Dwgr. no.	Rev.	Sheet
Contractor JVD.1029.60.03						4001 Stavanger	FF	91.36.35-1547	1 /



				elf aquitaine norge a/s		Job no.	Installation CDP 1	System UNDERWATER
1	10/83	UPDATED	mirre J.L.C.	p.o. box 168		Scale	TYPICAL SUPPORT CELL "E" TYPE "B"	
Rev.	Date	DESCRIPTION	by	app.		Dwgr. no.	FF 91_36_35_1548	1
Contractor JVD.1029.60.04				4001 Stavanger		FRIGG FIELD		

CDP 1 AS BUILT DRAWINGS

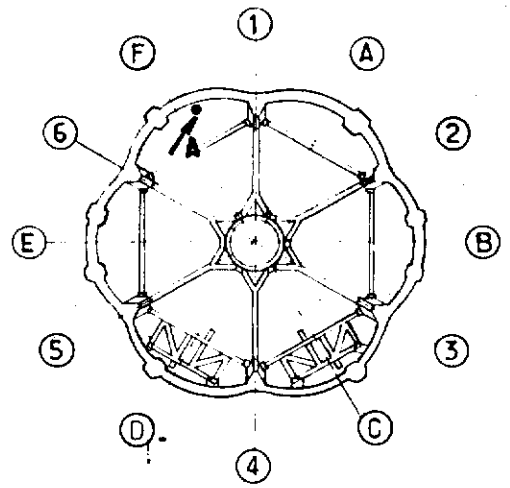
REFERENCE DRAWING LIST FOR: *PIPING AND ELECTRICAL*

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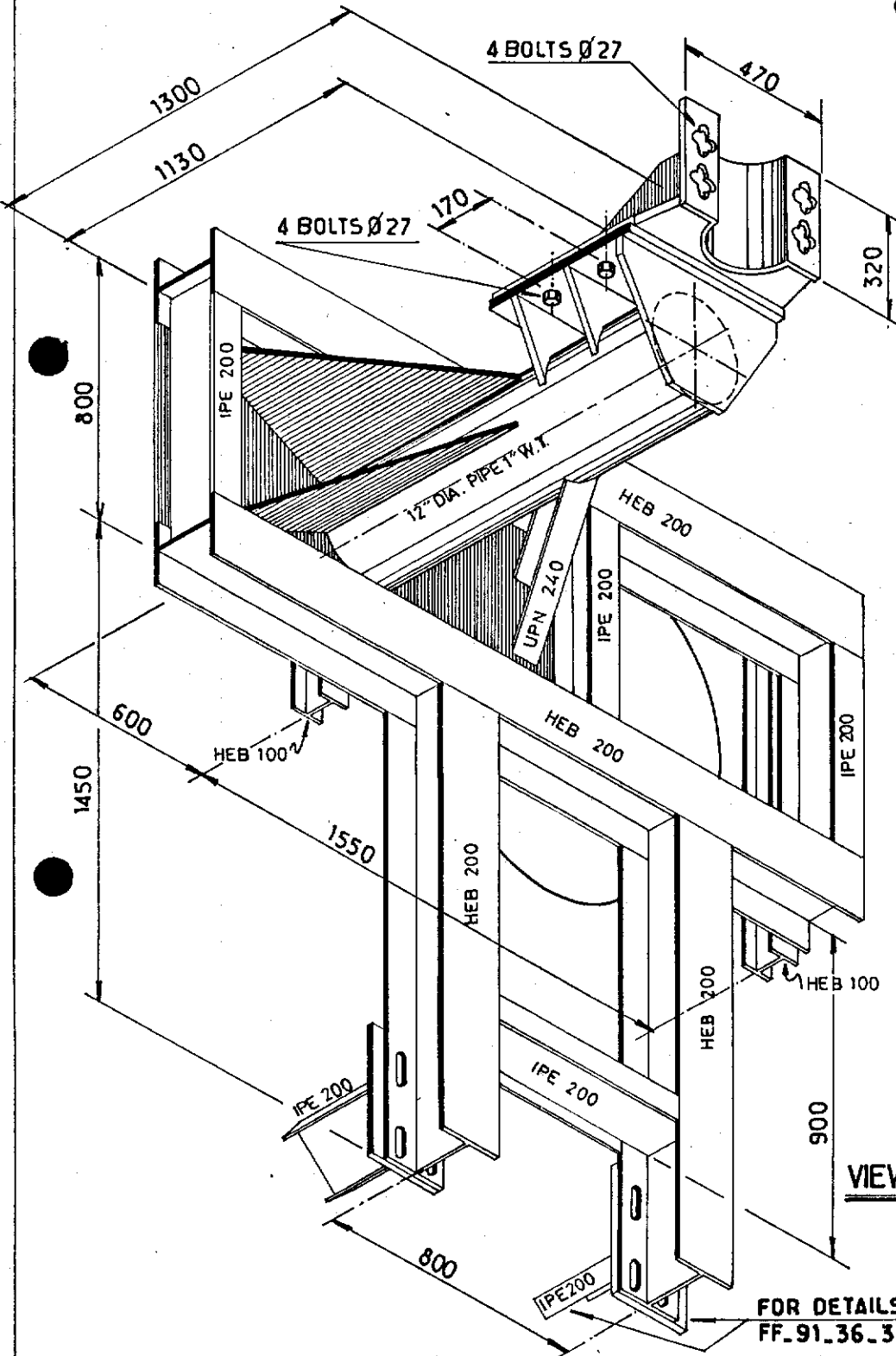
ELF DRAWING NUMBER	REVISION		TITLE
	Index	Date	
FF 91-36-35-1009	-	5-79	GENERAL VIEW OF 8" INSTRUMENTATION PIPE SUPPORT CELL E & F
FF 91-36-35-1011	-	5-79	DETAIL SUPPORT CELLS E, F, A
FF 91-36-33-1017	-	7-79	PIPE SUPPORT UPPER ANTI-ROTATING DEVICE

					elf aquitaine norge a/s p.o.box 168 4001 Stavanger	 elf	Job no.	Installation CDP 1	System UNDERWATER	
1	10/83	UPDATED					Scale	TYPICAL SUPPORT CELL "E" TYPE "B"		
Rev.	Date	DESCRIPTION	by	app.			Dwgr. no.		Rev.	Sheet
Contractor JVD. 1029. 04						FRIGG FIELD	FF	91-36.35.1548	1	/

GRID NORTH
19°37'
PLAT. NORTH



KEY PLAN



VIEW "A"

FOR DETAILS SEE SK.
FF.91.36.35.1552

				elf aquitaine norge a/s		Job no.	Installation CDP 1	System UNDERWATER
1	12/83	UPDATED	mirja JLC	p.o. box 168		Scale	TYPICAL SUPPORT CELL "F" TYPE "A"	
Rev.	Date	DESCRIPTION	by	app.		Dwgr. no.	FF 91.36.35.1549	Rev. 1
Contractor JVD.1029.60_05				4001 Stavanger		FRIGG FIELD		Sheet

CDP 1 AS BUILT DRAWINGS

REFERENCE DRAWING LIST FOR: *PIPING AND ELECTRICAL*

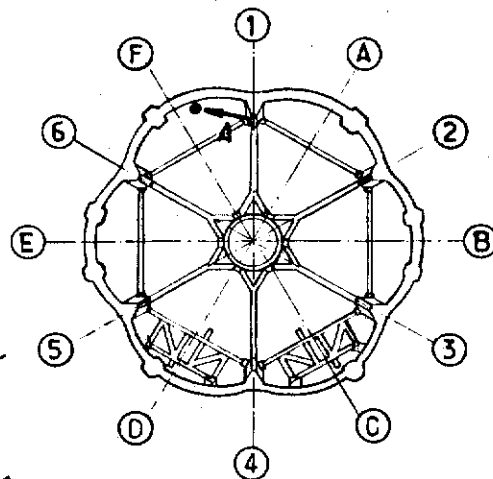
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ELF DRAWING NUMBER	REVISION		TITLE
	Index	Date	
FF 91-36-35-1009	-	5-79	GENERAL VIEW OF 8" INSTRUMENTATION PIPE SUPPORT CELL E & F
FF 91-36-35-1011	-	5-79	DETAIL SUPPORT CELLS E, F, A
FF 91-36-33-1017	-	7-79	PIPE SUPPORT UPPER ANTI-ROTATING DEVICE

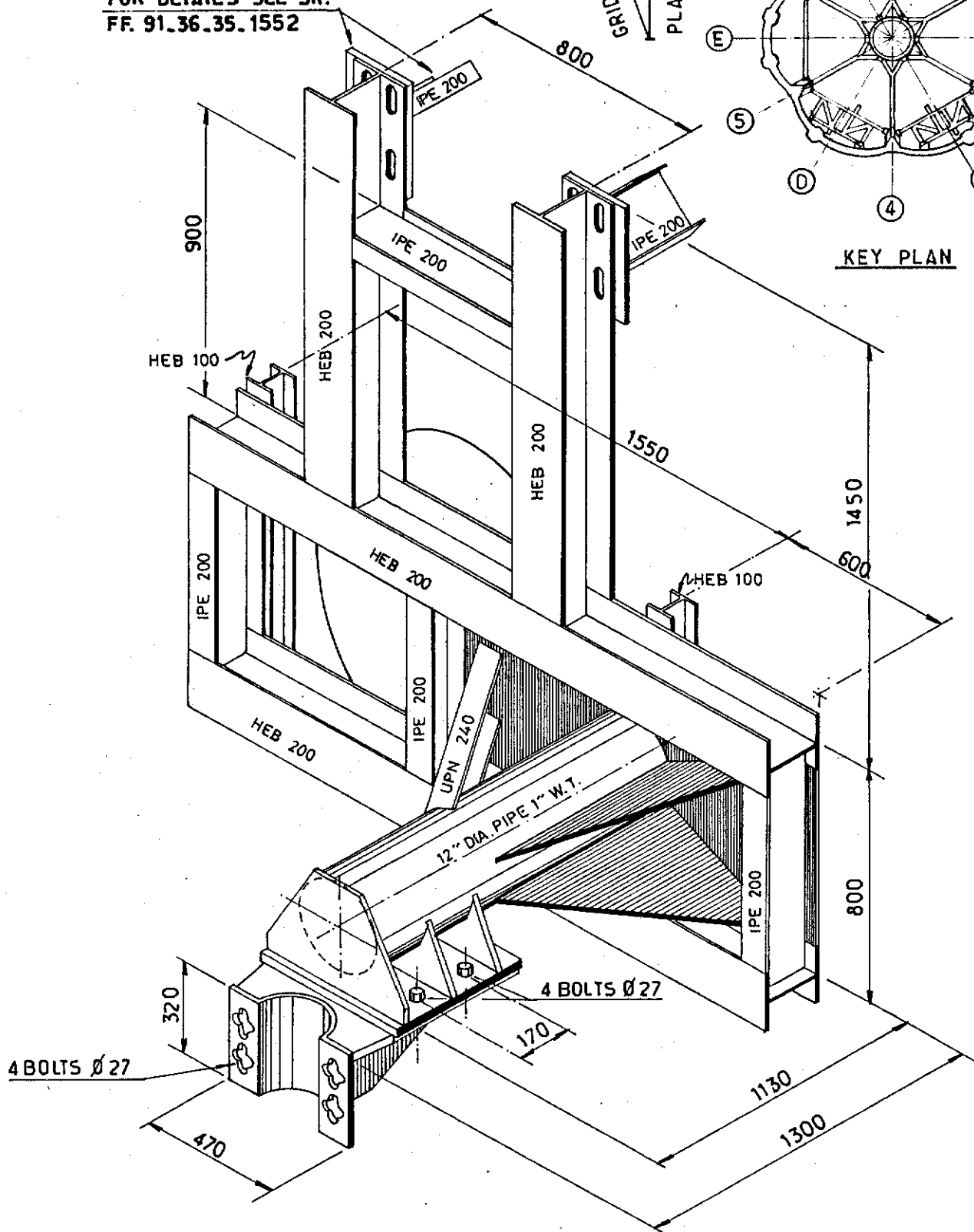
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1	12/83	UPDATED					Scale	TYPICAL SUPPORT CELL "F" TYPE "A"		
Rev.	Date	DESCRIPTION	by	app.			Dwgr. no.		Rev.	Sheet
Contractor JVD 1029-60-05					4001 Stavanger	FRIGG FIELD	FF	91.36-35.1549	1	/

FOR DETAILS SEE SK.
FF. 91.36.35.1552

GRID NORTH
19°37'
PLAT. NORTH



KEY PLAN



				elf aquitaine norge a/s		Job no.	Installation CDP 1	System UNDERWATER
1	10/83	UPDATED	mirg/lcc	p.o. box 168		Scale	TYPICAL SUPPORT CELL "F" TYPE "B"	
Rev.	Date	DESCRIPTION	by	app.		Dwgr. no.	FF 91.36.35.1550	Rev. 1
Contractor JVD_1029.60.06				4001 Stavanger		FRIGG FIELD		Sheet

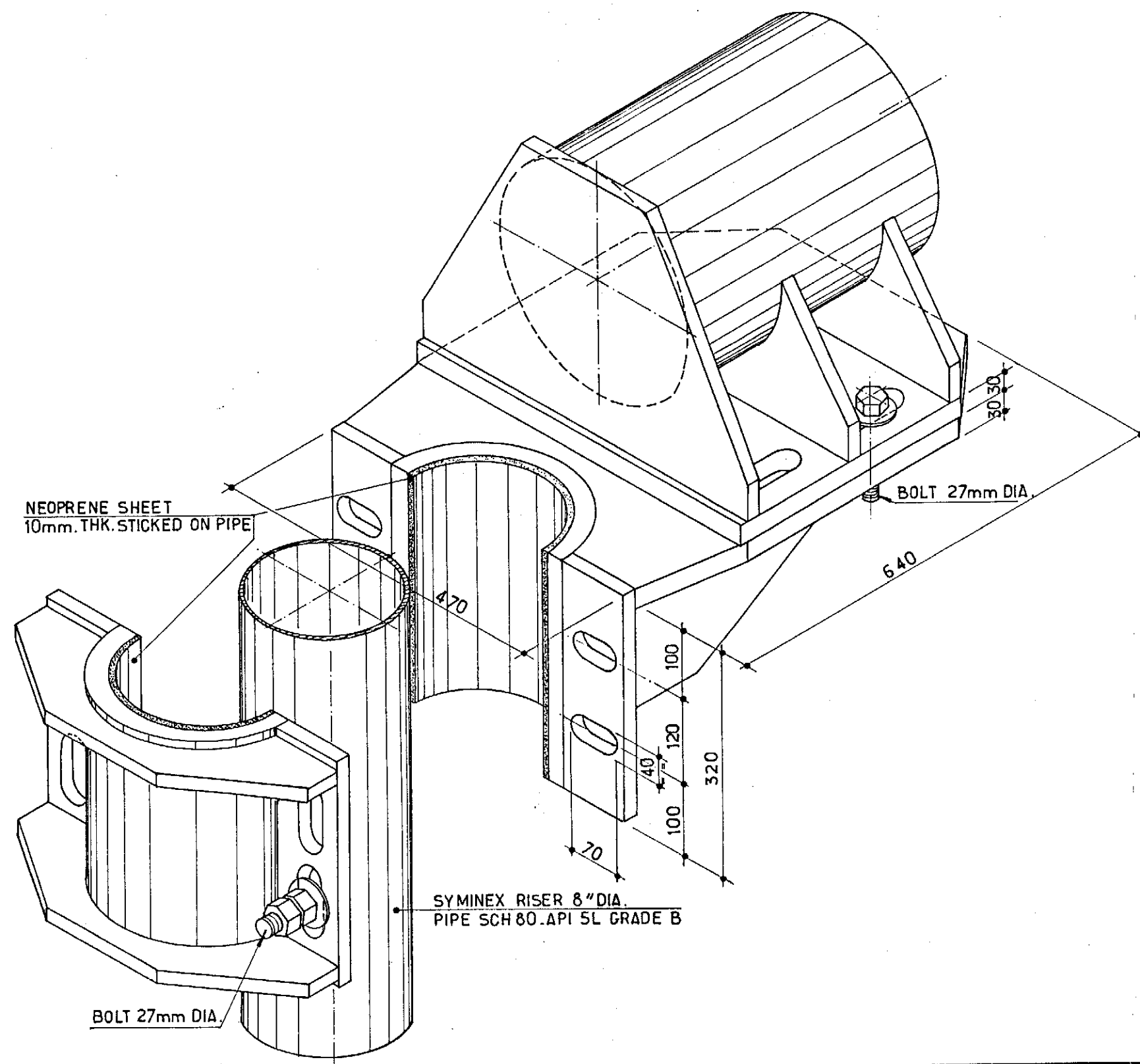
CDP 1 AS BUILT DRAWINGS

REFERENCE DRAWING LIST FOR: *PIPING AND ELECTRICAL*

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ELF DRAWING NUMBER	REVISION		TITLE
	Index	Date	
FF 91-36-35-1009	-	5-79	GENERAL VIEW OF 8" INSTRUMENTATION PIPE SUPPORT CELL E & F
FF 91-36-35-1011	-	5-79	DETAIL SUPPORT CELLS E, F, A
FF 91-36-33-1017	-	7-79	PIPE SUPPORT UPPER ANTI-ROTATING DEVICE

						 elf	Job no.	Installation CDP 1	System UNDERWATER			
1	10/83	UPDATED					Scale	TYPICAL SUPPORT CELL "F" TYPE "B"				
Rev.	Date	DESCRIPTION	by	app.			Dwgr. no.	FF 91.36-35.1550		Rev.	Sheet	
Contractor JVD. 1029. 60-06						4001 Stavanger	FRIGG FIELD				1	/



	Job no.	Installation CDP 1	System UNDERWATER	
	Scale	CLAMP DETAIL		
FRIGG, FIELD	Dwgr. no.	FF 91.36.35.1551	Rev.	Change

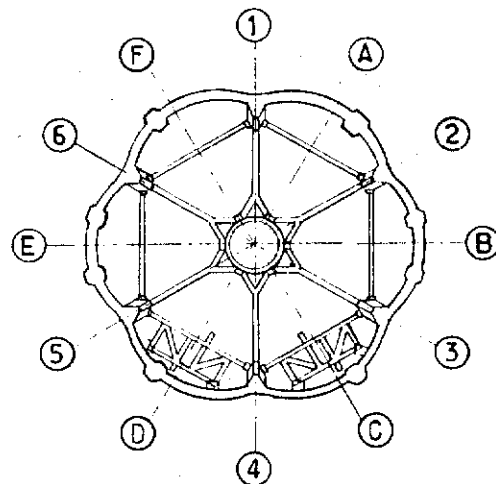
CDP 1 AS BUILT DRAWINGS

REFERENCE DRAWING LIST FOR: PIPING & INSTRUMENTATION

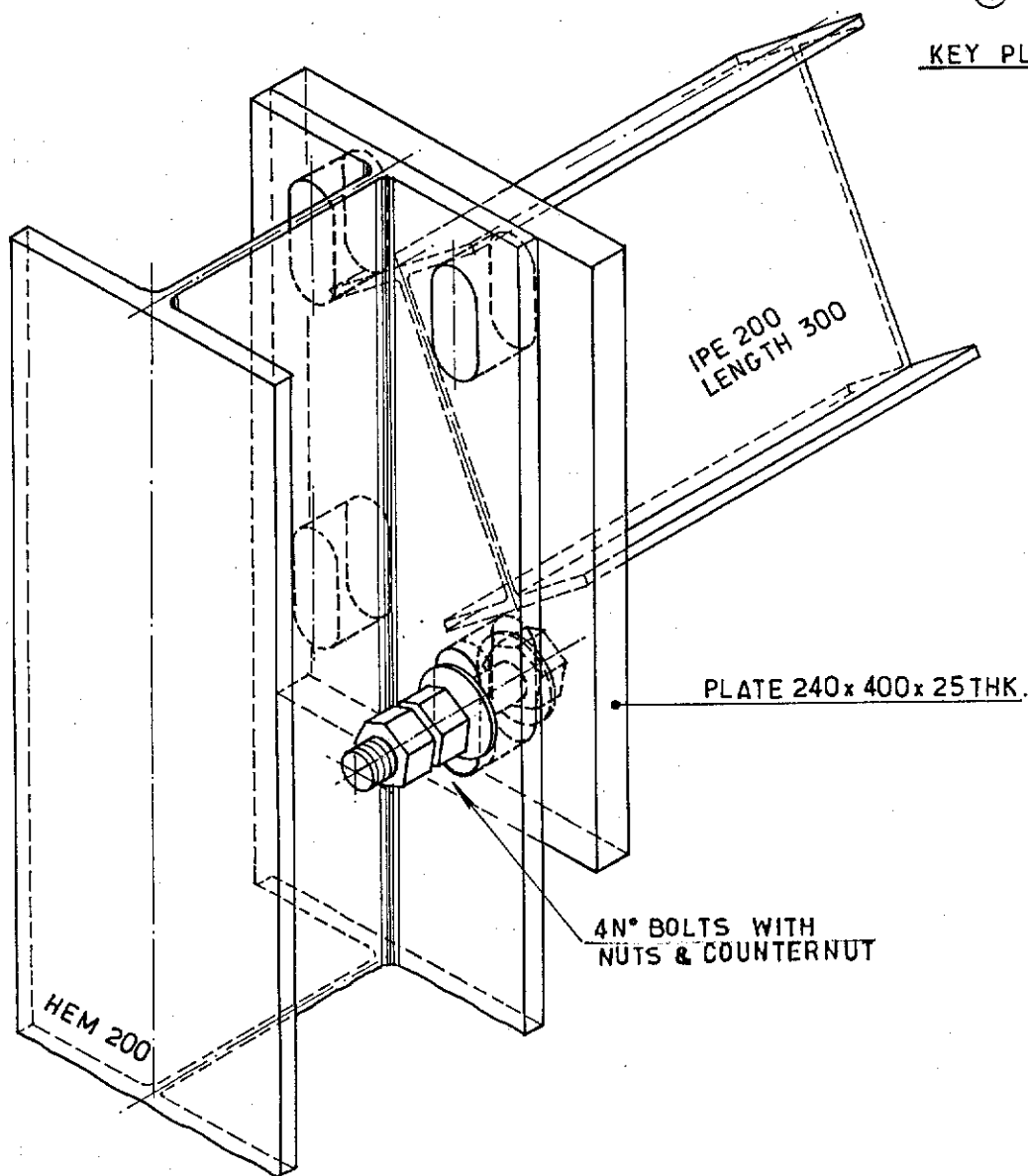
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						elf aquitaine norge a/s p.o.box 168 4001 Stavanger	 elf	Job no.	Installation CDP 1	System UNDERWATER
								Scale	CLAMP DETAIL	
Rev.	Date	DESCRIPTION	by	app.				Dwgr. no.	Rev.	Sheet
Contractor JYD. 1029. 60-07						4001 Stavanger	FRIGG FIELD	FF 91-36-35-1551		/

GRID NORTH
19° 37'
PLAT. NORTH



KEY PLAN



NOTES : FOR LOCATION OF ANTI-ROTATING DETAIL SEE SK. FF. 91.36.35.1545, 1548, 1549 & 1550

				elf aquitaine norge a/s p.o.box 168 4001 Stavanger	 elf	Job no.	Installation CDP 1	System UNDERWATER	
						Scale	ANTI-ROTATING DETAIL		
Rev.	Date	DESCRIPTION	by	app.	FRIGG FIELD	Dwgr. no.	FF 91.36.35.1552	Rev.	Sheet
Contractor JVD 1029.60.08									

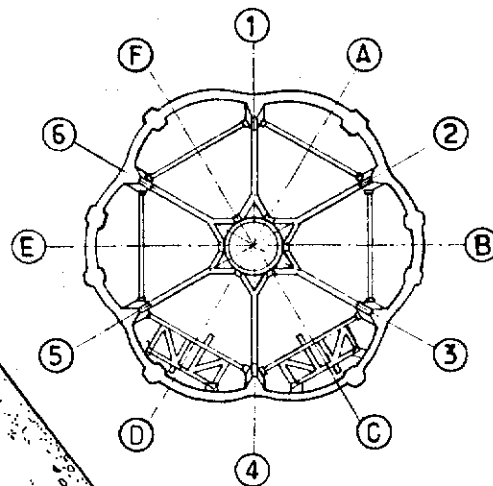
CDP 1 AS BUILT DRAWINGS

REFERENCE DRAWING LIST FOR: PIPING & INSTRUMENTATION

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					elf aquitaine norge a/s p.o.box 168 4001 Stavanger	 elf	Job no.	Installation CDP 1	System UNDERWATER		
							Scale	ANTI-ROTATING DETAIL			
Rev.	Date	DESCRIPTION	by	app.			Dwgr. no.	FF 91-36-35-1552		Rev.	Sheet /
Contractor JVD-1029-60-08					FRIGG FIELD						

GRID NORTH
19° 37'
PLAT. NORTH



KEY PLAN

OUTSIDE B.W.W.

INSIDE B.W.W.

STUD BOLT Ø 45mm
LEINGHT 2000

NOTES : FOR LOCATION OF FIXATION SEE SK. FF.91.36.35.1545,1548, 1549 & 1550

				 elf	Job no.	Installation CDP 1	System UNDERWATER	
					Scale	FIXATION THROUGH JARLAN HOLE DETAIL		
Rev.	Date	DESCRIPTION	by	app.	Dwgr. no.		Rev.	Sheet
Contractor JVD 1029_60_09				p.o.box 168 4001 Stavanger	FRIGG FIELD	FF 91.36.35_1553		

CDP 1 AS BUILT DRAWINGS

REFERENCE DRAWING LIST FOR: PIPING & INSTRUMENTATION

[illegible][illegible]

						Job no.	Installation CDP 1	System UNDERWATER
						Scale	FIXATION THROUGH JARLIN HOLE DETAIL	
Rev.	Date	DESCRIPTION	by	app.		Dwgr. no.		Rev.
Contractor JVD 1029. 60. 09						FF 91-36-35-1553		Shear /
p.o.box 168 4001 Stavanger					FRIGG FIELD			

7. SAFETY LADDER, WALKWAYS ETC. AT TOP OF B.W.W

DRAWING TITLE	E.A.N DRAWING No
- G.A. ON TOP OF BREAKWATER WALL EL + 107 M - ACCESS WALKWAY FOR EMERGENCY LADDER LINE 3 - ACCESS WALKWAY FOR EMERGENCY LADDER LINE 5 - ACCESS WALKWAY FOR EMERGENCY LADDER LINE 1 - EMERGENCY LADDER ON BREAKWATER WALL G.A. . UPPER LADDER DETAIL . LOWER LADDER DETAIL . REST PLATFORM DETAIL . FIXATION THROUGH JARLAN HOLE DETAIL - EMERGENCY LADDER ON CENTRAL SHAFT G.A. - WAY ABOVE EXTERNAL RAIL - WALKWAY AROUND COLUMN H⁴ - HANDRAIL G'A ON TOP OF BREAKWATER WALL - HANDRAIL FIXATION DETAIL TYPE 1 - HANDRAIL FIXATION DETAIL TYPE 2 - HANDRAIL FIXATION DETAIL TYPE 3 - RESERVED - RESERVED - RESERVED - RESERVED	- FF 91 36 35 - 1560 - FF 91 36 35 - 1561 - FF 91 36 35 - 1562 - FF 91 36 35 - 1563 - FF 91 36 35 - 1564 - FF 91 36 35 - 1565 - FF 91 36 35 - 1566 - FF 91 36 35 - 1567 - FF 91 36 35 - 1568 - FF 91 36 35 - 1569 - FF 91 36 35 - 1570 - FF 91 36 35 - 1571 - FF 91 36 35 - 1572 - F 91 36 35 - 1573 - FF 91 36 35 - 1574 - FF 91 36 35 - 1575 - FF 91 36 35 - 1576 - FF 91 36 35 - 1577 - FF 91 36 35 - 1578 - FF 91 36 35 - 1579

SIMINEX RISER PLAT.
SEE SECTION 6

EMERGENCY LADDER
SEE SK: FF 91.36.35.1564

WALKWAY AROUND COL.H'4
SEE SK: FF.91.36.35.1575

WALKWAY

PRESTRESSING CABLES
CACHETAGE

ACCESS WALKWAY TYPE "2"
SEE SK: FF 91.36.35.1563

PRESTRESSING CABLES
CACHETAGE

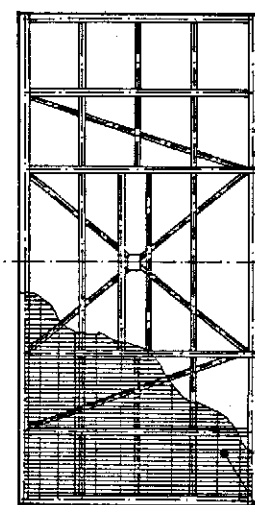
CELL "F"

WAY ABOVE RAIL
SEE SK: FF.91.36.35.1570

CELL "A"

ACCESS STAIRCASE
NORTH

SIMINEX RISER PLAT.
SEE SECTION 6



DIVING STORAGE PLATFORM
SEE SECTION 11

CACHETAGE

CELL "E"

ACCESS WALKWAY TYPE "1"
SEE SK: FF.91.36.35.1562

EMERGENCY LADDER
SEE SK: FF 91.36.35.1564

WALKWAY AROUND
CENTRAL SHAFT

ACCESS STAIRCASE
SOUTH

EMERGENCY LADDER
SEE SK: FF.91.36.35.1569

DIVING MODULE RAIL
SEE SECTION 9

TRANSFER RAILS FOR
DIVING MODULE

PRESTRESSING CABLES
CACHETAGE

CELL "B"

ACCESS WALKWAY TYPE "1"
SEE SK: FF.91.36.35.1561

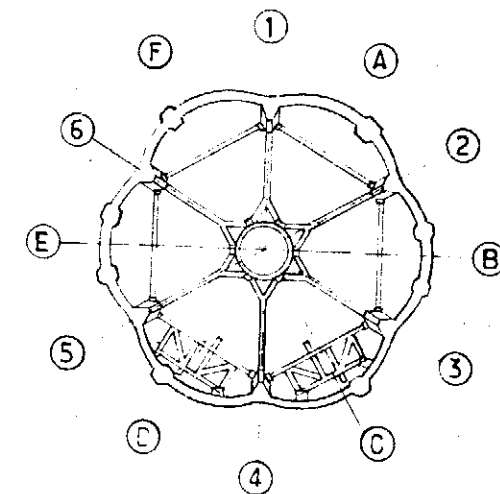
EMERGENCY LADDER
SEE SK: FF 91.36.35.1564

CELL "C"

CELL "D"

PRESTRESSING CABLES
CACHETAGE

GRID NORTH
19° 37'
PLAT. NORTH



KEY PLAN

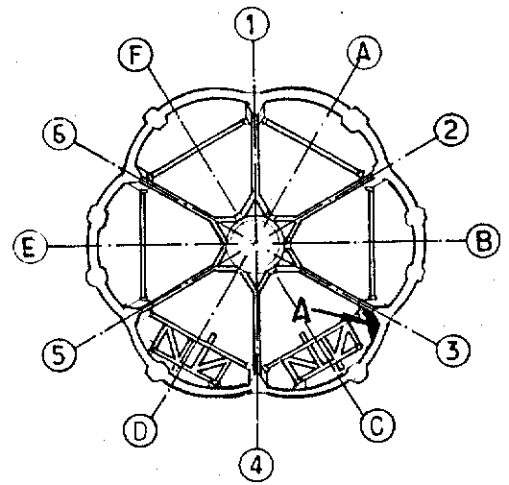
NOTE: FOR HANDRAIL GENERAL ARRANGEMENT
SEE SK: FF 91.36.35.1576

					elf aquitaine norge a/s p.o.box 168 4001 Stavanger	 elf	Job no.	Installation CDP 1	System UNDERWATER		
1	12/83	UPDATED	mirro	JLC			Scale 1:250	GENERAL ARRANGEMENT ON TOP OF BREAKWATER WALL - LEV. +107.00 m.			
Rev.	Date	DESCRIPTION	by	app.			Dwgr. no FF	91_36_35_1560		1	
Contractor JVD 1029. 70. 01					4001 Stavanger		FRIGG FIELD				

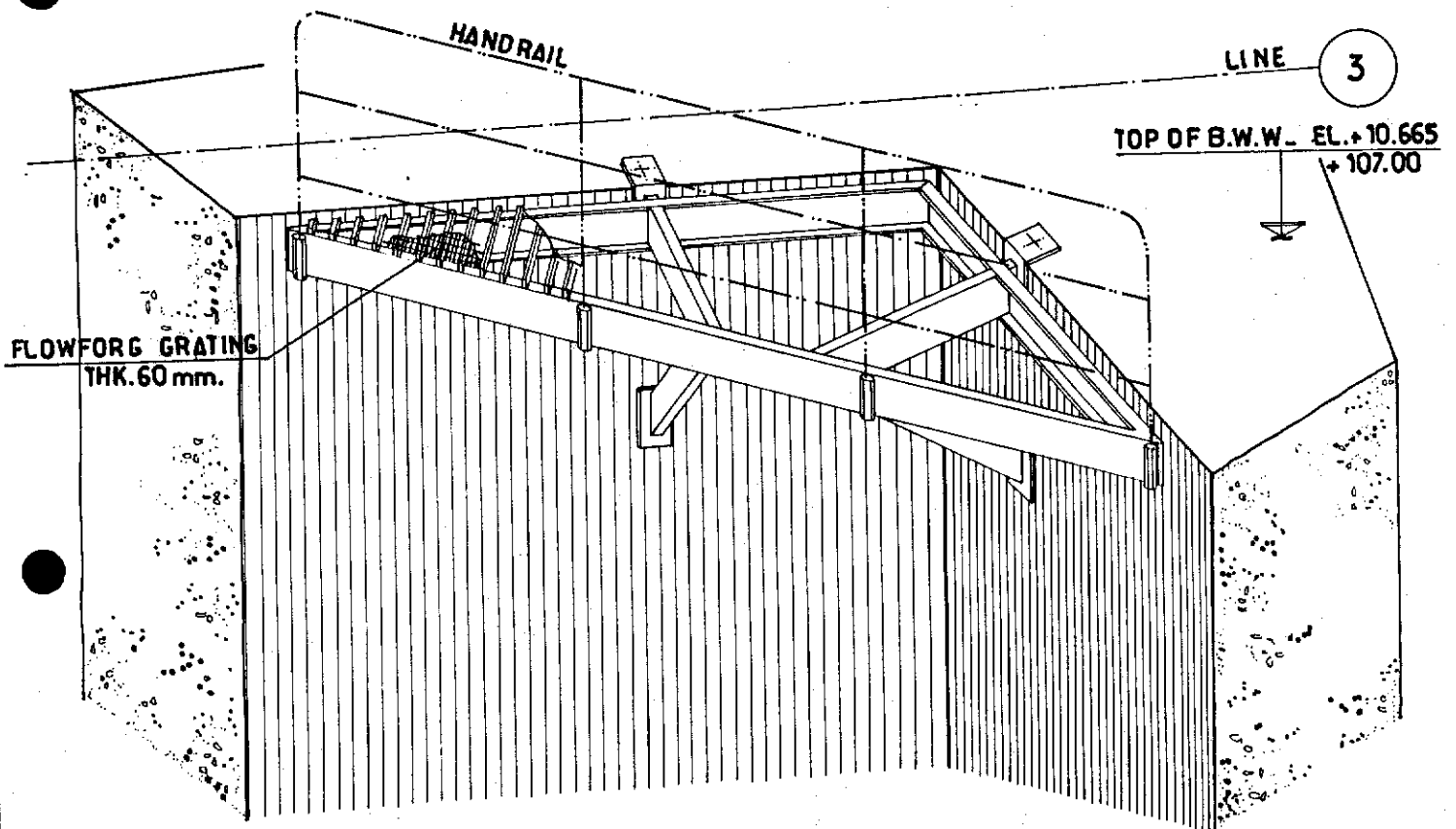


FRIGG FIELD

GRID NORTH
19° 37'
PLAT. NORTH



KEY PLAN



VIEW "A"

				elf aquitaine norge a/s p.o. box 168 4001 Stavanger	 elf	Job no.	Installation CDP 1	System UNDERWATER
1	12/83	REDRAWN	micro ALC			Scale	ACCESS WALKWAYS FOR EMERGENCY LADDERS - TYPE "1" - LINE 3	
Rev.	Date	DESCRIPTION	by	app.		Dwgr. no.	FF 91.36.35.1561	1
Contractor JYD 1029.70.02				FRIGG FIELD				

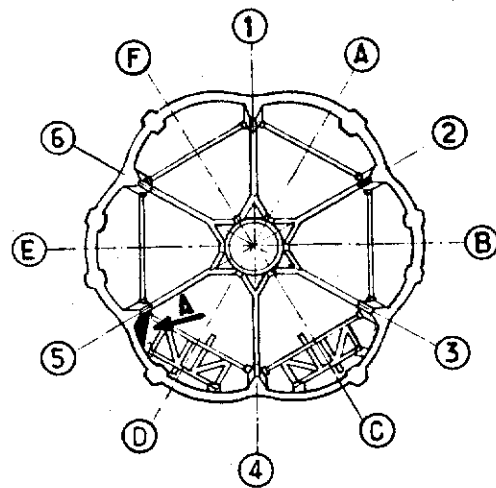
CDP 1 AS BUILT DRAWINGS

REFERENCE DRAWING LIST FOR:

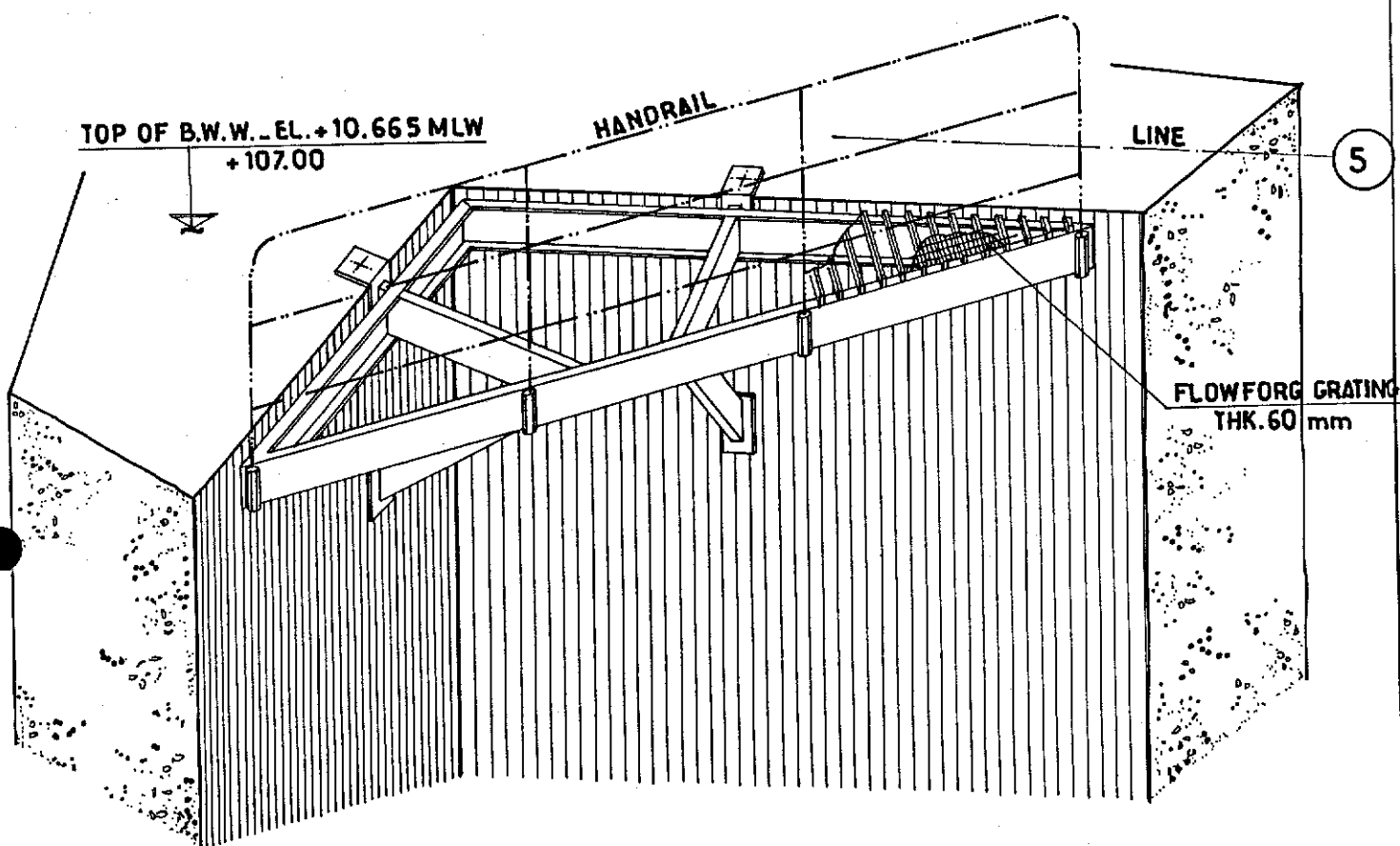
[illegible][illegible]

							Job no.	Installation CDP 1	System UNDERWATER	
1	2/8	REDRAWN					Scale	ACCESS WALKWAYS FOR EMERGENCY LADDERS. TYPE 1 LINES		
Rev.	Date	DESCRIPTION	by	app.			Dwgr. no.		Rev.	Sheet
Contractor JND 1029.70-02						4001 Stavanger	FF	91-36-35-1561	1	/

GRID NORTH
19° 37'
PLAT. NORTH



KEY PLAN



VIEW "A"

					elf aquitaine norge a/s p.o.box 168 4001 Stavanger	 elf	Job no.	Installation CDP 1	System UNDERWATER	
1	12/83	UPDATED	mrs	JLC			Scale —	ACCESS WALKWAYS FOR EMERGENCY LADDERS -TYPE "1" - LINE 5		
Rev.	Date	DESCRIPTION	by	app.			Dwgr. no.	FF 91_36_35_1562	Rev 1	Sheet /
Contractor JVD 1029 - 70 - 03										

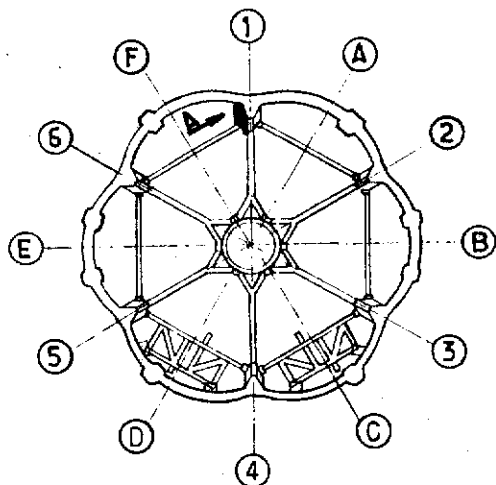
CDP 1 AS BUILT DRAWINGS

REFERENCE DRAWING LIST FOR:

[illegible][illegible]

						 elf	Job no.	Installation CDP 1	System UNDERWATER
1	12/83	UPDATED					Scale	ACCESS WALKWAYS FOR EMERGENCY LADDER-TYPE 1 LINE "B"	
Rev.	Date	DESCRIPTION	by	app.			Dwgr. no.	Rev.	Sheet
Contractor JVD.1029.70-03						4001 Stavanger	FF 91-36-35-1562	1	/
						FRIGG FIELD			

NORTH
 19° 37'
 PLAT. NORTH



KEY PLAN

LINE 1

TOP OF B.W.W. EL. +10.665 MLW
 +107.00

HANDRAIL

FLOWFORG
 GRATING 60mm
 THK.

VIEW "A"

				elf aquitaine norge a/s		 p.o. box 168 4001 Stavanger		Job no.	Installation CDP 1	System UNDERWATER
1	12/83	UPDATED	mirg	J.L.C.		Scale	ACCESS WALKWAYS FOR EMERGENCY LADDERS - TYPE "2" - LINE 1			
Rev.	Date	DESCRIPTION	by	app.		Dwgr. no.	FF 91.36_35_1563		Rev 1	Sheet /
Contractor JVD 1029_70_04						FRIGG FIELD				

CDP 1 AS BUILT DRAWINGS

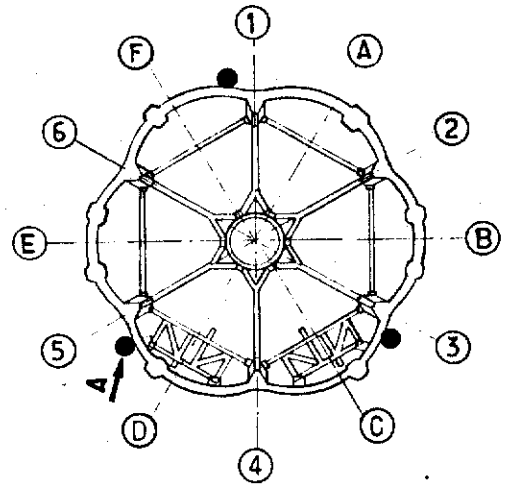
REFERENCE DRAWING LIST FOR:

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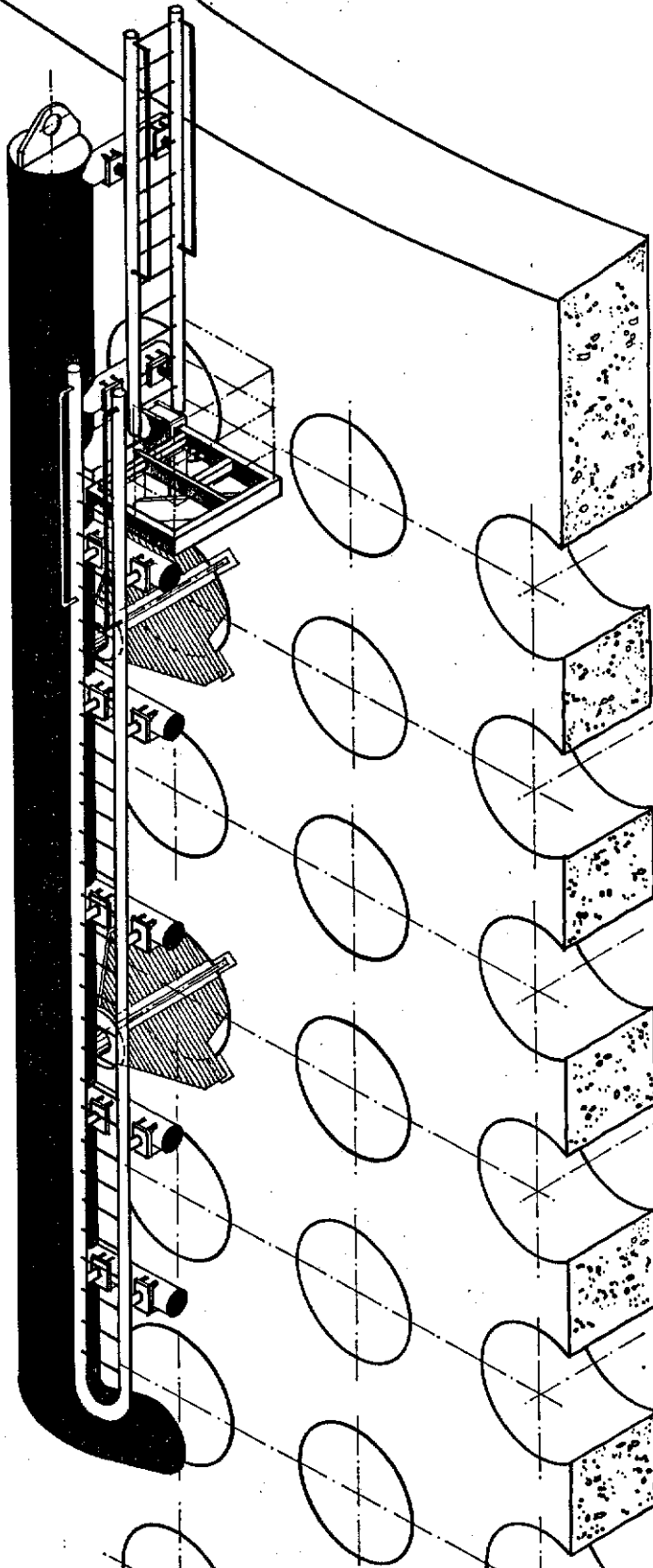
						elf aquitaine norge a/s p.o.box 168 4001 Stavanger	 elf	Job no.	Installation	System	
								CDP 1	UNDERWATER		
1	12/88	UPDATED						Scale	ACCESS WALKWAYS FOR EMERGENCY LADDERS. TYPE 2 LINE "1"		
Rev.	Date	DESCRIPTION	by	app.				Dwgr. no.		Rev.	Sheet
Contractor JVD.1029.70-04						FRIGG FIELD		FF 91.36.35. 1563		1	/

TOP OF B.W.W. - EL. + 10.665 MLW
+ 107.00

GRID NORTH
19° 37'
PLAT. NORTH



KEY PLAN



EL. + 5.905 MLW
+ 102.24

EL. + 1.905 MLW
+ 98.24

VIEW "A"

						elf aquitaine norge a/s p.o.box 168 4001 Stavanger	 elf	Job no.	Installation CDP 1	System UNDERWATER		
1	12/83	UPDATED	mire	J.LC				Scale —	EMERGENCY LADDERS ON BREAKWATER WALL			
Rev.	Date	DESCRIPTION	by	app.				Dwgr. no.	FF 91_36_35_1564		Rev 1	Sheet /
Contractor JVD 1029_ 70 .05							FRIGG FIELD					

CDP 1 AS BUILT DRAWINGS

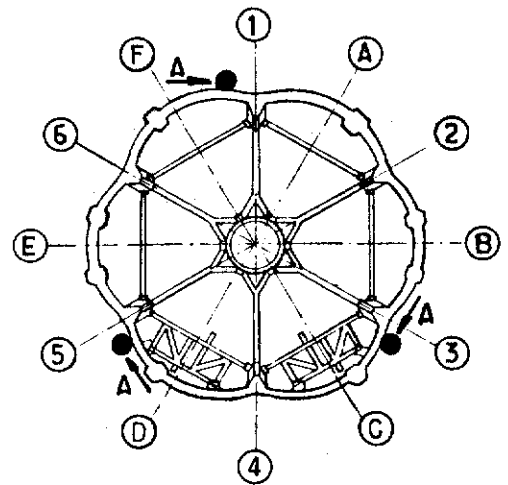
REFERENCE DRAWING LIST FOR:

[illegible]

ELF DRAWING NUMBER	REVISION		TITLE
	Index	Date	
FF-91.21.21-10-17	1	8/6/79	BREAKWATER EMERGENCY LADDER - LADDER
			SUPPORT - GENERAL DRAWING
FF-91.21.21-10-04	4	26/11/80	BREAKWATER EMERGENCY LADDER - LADDER
			SUPPORT - DETAILS

						 elf	Job no.	Installation CDP 1	System UNDERWATER	
1	12/83	UPDATED					Scale	EMERGENCY LADDERS ON BREAKWATER WALL		
Rev.	Date	DESCRIPTION	by	app.			Dwgr. no.	FF 91-36-35-1564	Rev. 1	Sheet /
Contractor JVD1029. 70-05						4001 Stavanger	FRIGG FIELD			

GRID NORTH
19° 37'
PLAT. NORTH



KEY PLAN

24" DIA. PIPE
3/4" THK. BUMPER

EL. +10.715 MLW
+107.05

8" DIA. PIPE x 3/4" THK.

EL. +7.945 MLW
+104.28

VIEW "A"

NOTES : FOR LOCATION SEE SK.FF_91.36_35_1564

				elf aquitaine norge a/s p.o.box 168 4001 Stavanger		 elf		Job no.		Installation CDP 1		System UNDERWATER	
								Scale		UPPER LADDER DETAIL			
Rev.		Date		DESCRIPTION		by		app.		Dwgr. no.		Rev	
Contractor		JVD. 1029.70.06		4001 Stavanger		FRIGG FIELD		FF		91_36_35_1565		Sheet	

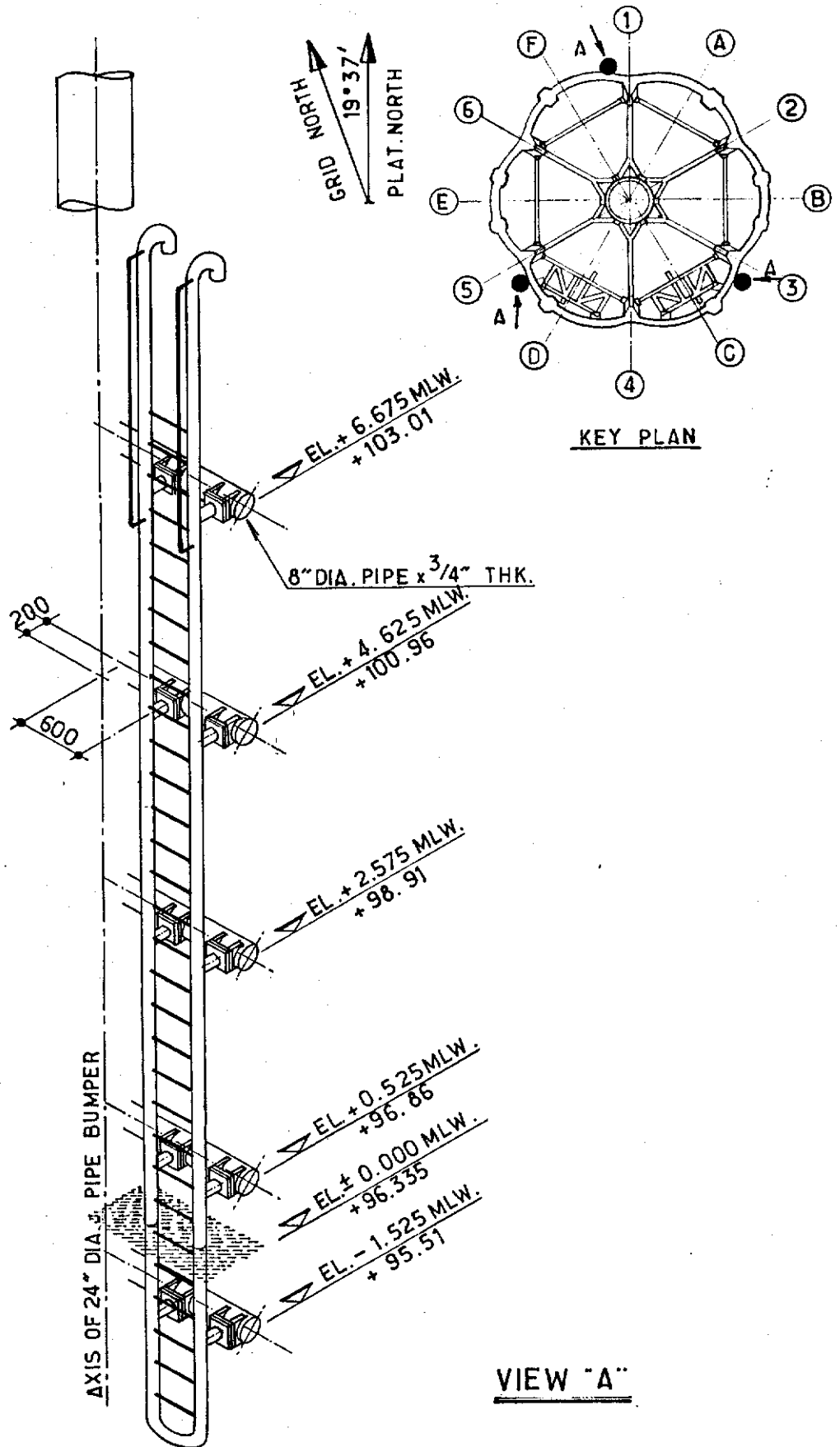
CDP 1 AS BUILT DRAWINGS

REFERENCE DRAWING LIST FOR:

[illegible]

ELF DRAWING NUMBER	REVISION		TITLE
	Index	Date	
FF- 91- 21- 21- 1017	1	6/79	BREAKWATER EMERGENCY LADDER - LADDER
			SUPPORT - GENERAL DRAWING
FF- 91- 21- 21- 1015			BUMPER - GENERAL DRAWING
FF- 91- 21- 21- 1003			BUMPER - LADDER
FF- 91- 21- 21- 1004			BUMPER - DETAILS

					 elf	Job no.	Installation CDP 1		System UNDERWATER	
						Scale	UPPER LIDER DETAIL			
Rev.	Date	DESCRIPTION	by	app.	p.o.box 168	Dwgr. no.	91 36 35 1565		Rev.	Sheet
Contractor JVD. 1029. 70- 06					4001 Stavanger	FF				/



				elf aquitaine norge a/s p.o. box 168 4001 Stavanger	 elf	Job no.	Installation CDP 1	System UNDERWATER
Rev.	Date	DESCRIPTION	by			Scale	LOWER LADDER DETAIL	
Contractor JVD 1029.70.07				4001 Stavanger	FRIGG FIELD	Dwgr. no. FF 91.36.35.1566	Rev	Sheet

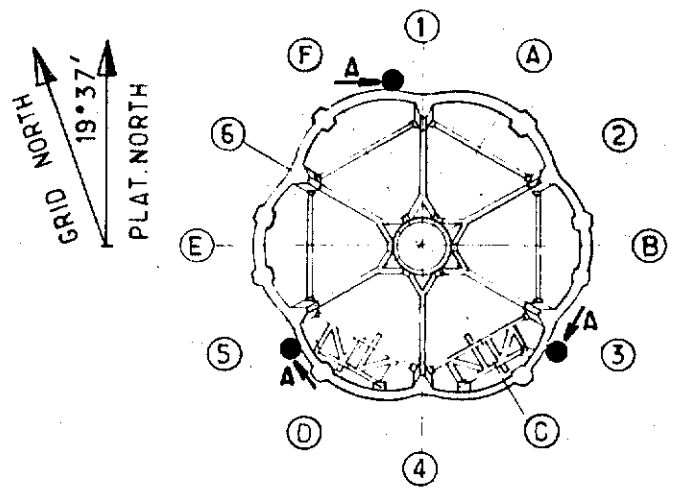
CDP 1 AS BUILT DRAWINGS

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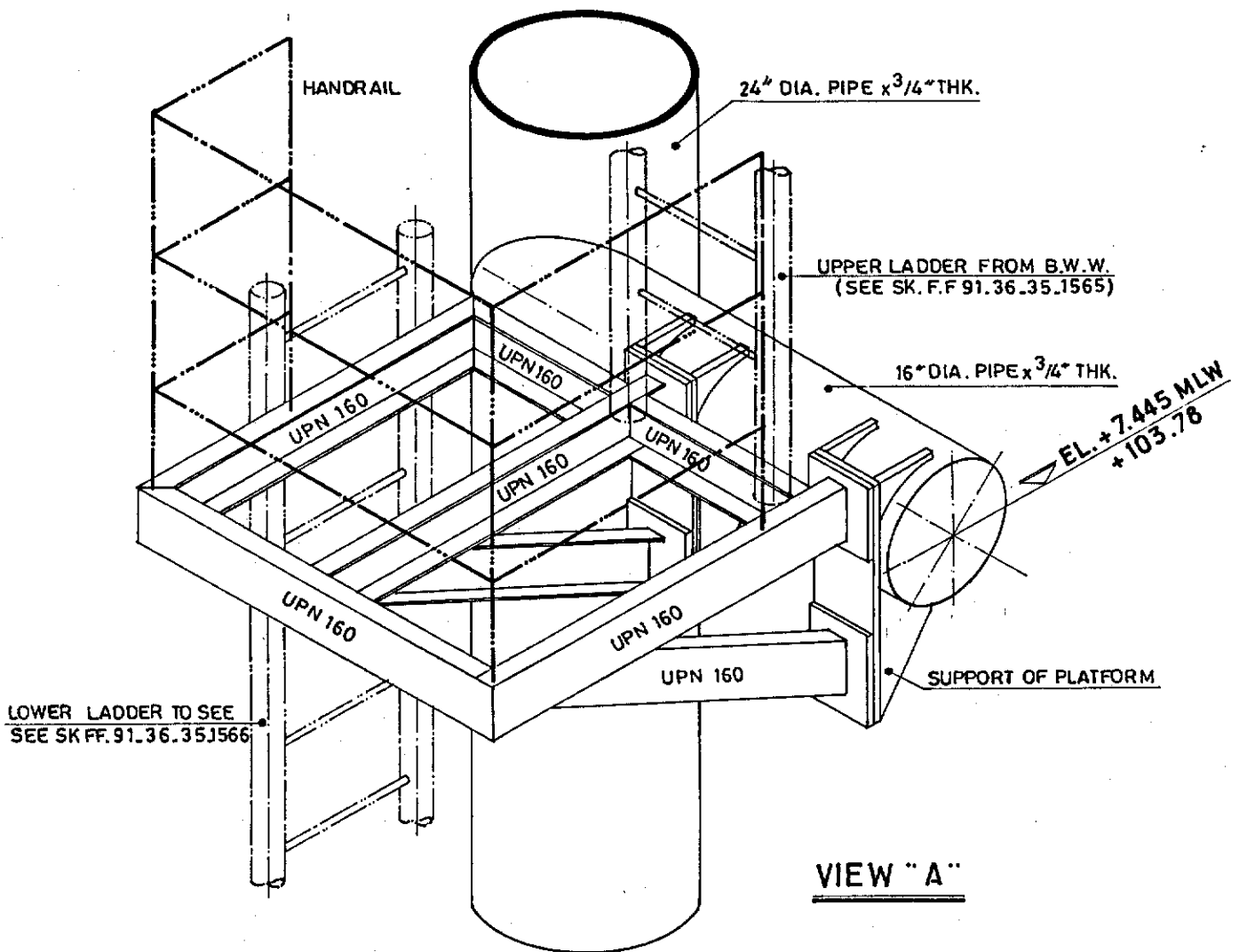
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ELF DRAWING NUMBER	REVISION		TITLE
	Index	Date	
FF-91-21-21-1017	1	6/79	BREAKWATER EMERGENCY LADDER- LADDER
			SUPPORT - GENERAL DRAWING
FF-91-21-21-1003			BUMPER - LADDER
FF-91-21-21-1004			BUMPER - DETAILS

					elf aquitaine norge a/s p.o.box 168 4001 Stavanger	 elf	Job no.	Installation CDP 1	System UNDERWATER
							Scale	LOWER LADDER DETAIL	
Rev.	Date	DESCRIPTION	by	app.	FRIGG FIELD	Dwgr. no. FF 91-36-35-1566	Rev.	Sheet	
Contractor JVD1029. 70-17									



KEY PLAN



VIEW "A"

				elf aquitaine norge a/s			Job no.	Installation CDP 1	System UNDERWATER
Rev.	Date	DESCRIPTION	by JLC	app.	p.o.box 168		Scale	REST PLATFORM DETAIL	
Contractor JVD. 1029.70.08				4001 Stavanger		FRIGG FIELD	Dwgr. no.	FF 91.36.35.1567	

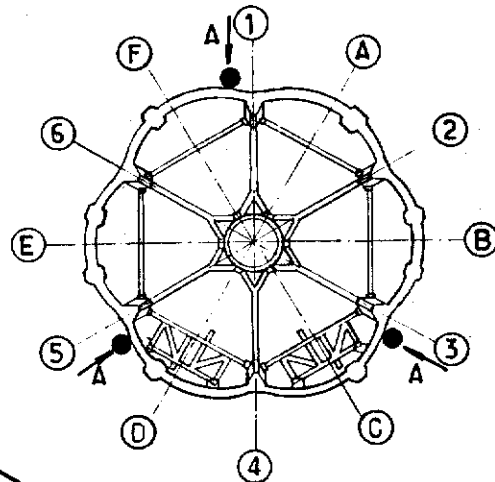
CDP 1 AS BUILT DRAWINGS

REFERENCE DRAWING LIST FOR:

[illegible][illegible]

					elf aquitaine norge a/s p.o.box 168 4001 Stavanger	 elf	Job no.	Installation CDP 1	System UNDERWATER	
							Scale	REST PLATFORM DETAIL		
Rev.	Date	DESCRIPTION	by	app.			Dwgr. no.		Rev.	Sheet
Contractor JVD-1029-70-08					4001 Stavanger	FRIGG FIELD	FF	91.36.35-1567	/	

GRID NORTH
19° 37'
PLAT. NORTH



KEY PLAN

JARLAN HOLE 1.30 DIA.

4 N° ROUND BARS 70 DIA.
THREADED ON 400mm. AT ONE
END TO SUIT M 64 NUTS.

4 N° PLATE
240x290x 70 THK.

4 N° GUSSETS 40THK.

FLANGE OD 800x 70THK.

16" DIA. PIPE x 3/4" THK.

PLATE
240x270x25THK.

AXIS OF 24" DIA. PIPE / BUMPER

EL. +1.905 MLW. & EL. +5.905 MLW.
(+98.24) & (+102.24)

WALL 1.20 THK

VIEW "A"

NOTES:

FOR LOCATION SEE SK. FF. 91_36_35_1564

					elf aquitaine norge a/s p.o.box 168 4001 Stavanger		 elf FRIGG FIELD		Job no. Scale 		Installation CDP 1		System UNDERWATER	
Rev. Date DESCRIPTION by app.					p.o.box 168		FIXATION THROUGH JARLAN HOLE DETAIL		Rev		Sheet 			
Contractor JVD 1029.70_09					4001 Stavanger		Dwgr. no. FF 91_36_35_1568							



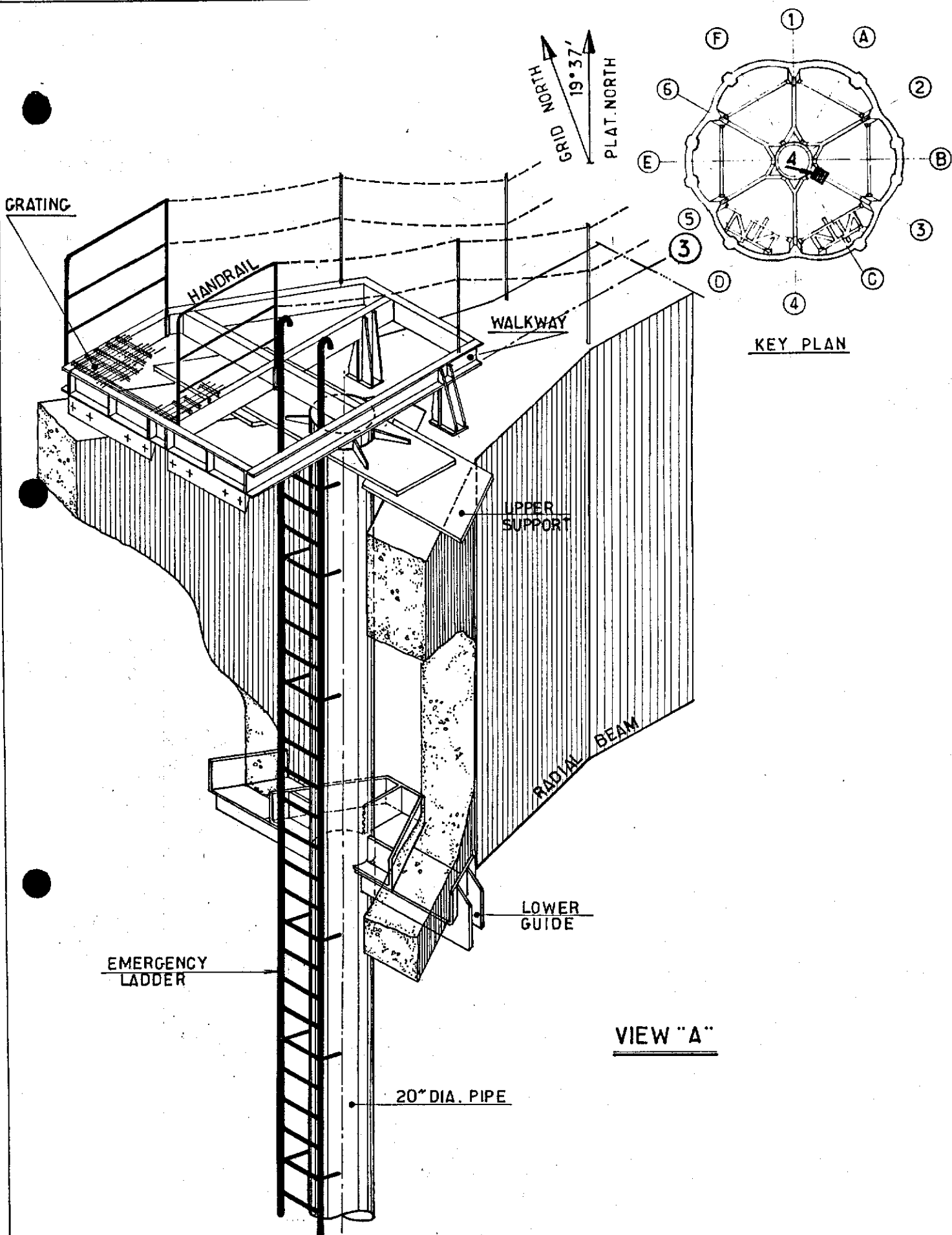
FRIGG FIELD

CDP 1 AS BUILT DRAWINGS

REFERENCE DRAWING LIST FOR:

[illegible][illegible]

				elf		Job no.		Installation		System	
				aquitaine				CDP 1		UNDERWATER	
				norge a/s				Scale		FIXATION THROUGH JARLAN	
				p.o.box 168				HOLE DETAIL			
Rev.	Date	DESCRIPTION	by	app.		Dwgr. no.				Rev.	Sheet
Contractor JVD 1029. 70-09					4001 Stavanger	FRIGG FIELD		FF 91-36.35-1568			/



				elf aquitaine norge a/s p.o. box 168 4001 Stavanger	 elf FRIGG FIELD	Job no.	Installation CDP 1	System UNDERWATER
Rev.	Date	DESCRIPTION	by			Scale	EMERGENCY LADDER ON CENTRAL SHAFT - GENERAL ARRANGEMENT	
Contractor JVD_1029_70_10						Dwgr. no.	FF 91.36_35_1569	

CDP 1 AS BUILT DRAWINGS

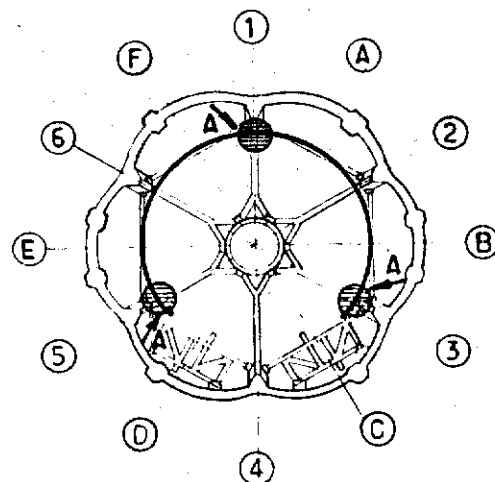
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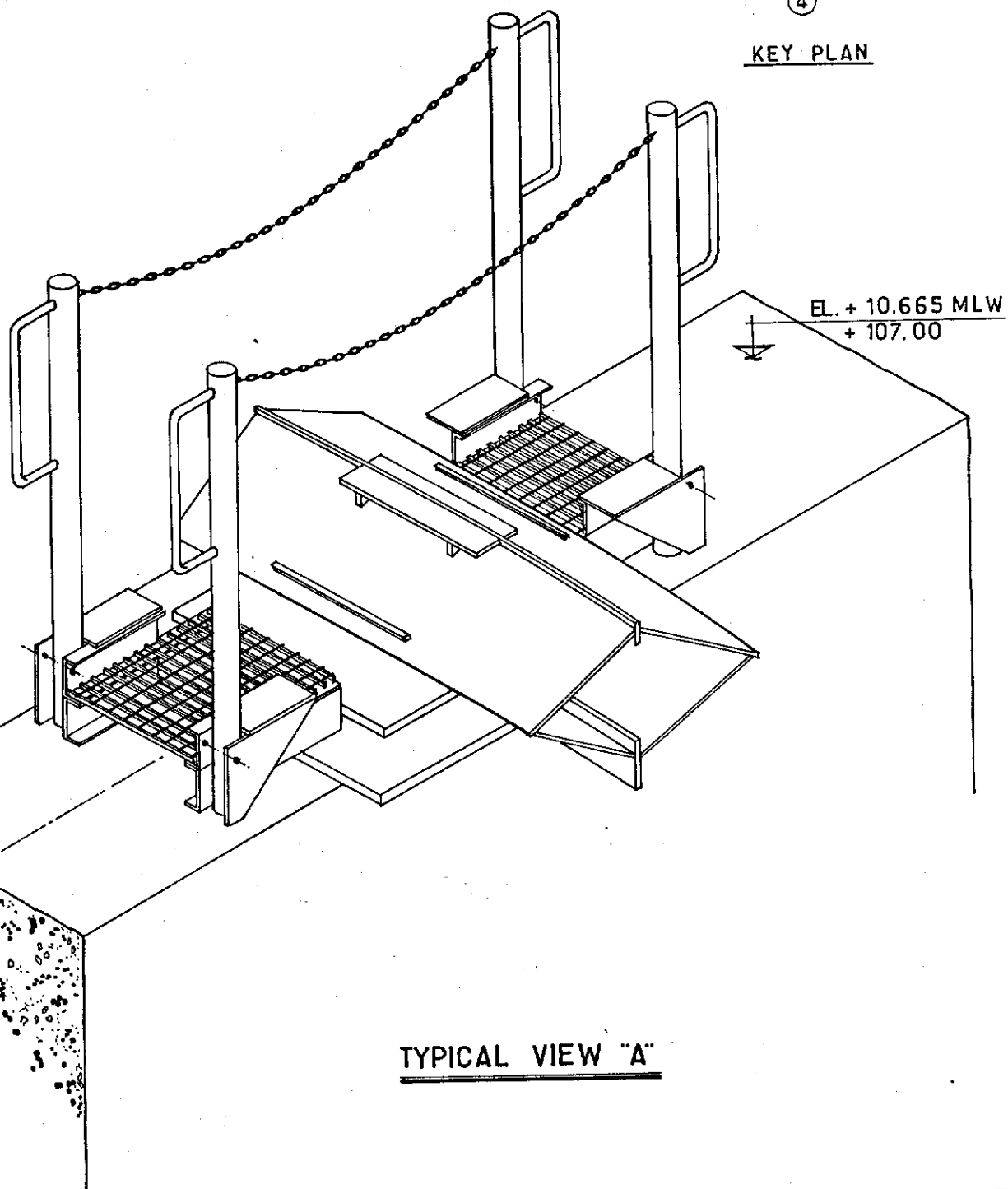
ELF DRAWING NUMBER	REVISION		TITLE
	Index	Date	
FF- 91-21-21-1009	6	11/80	EMERGENCY LADDER - INSIDE B.W.W. LADDER - GENERAL DRAWING
FF- 91-21-21-1013	7	11/80	EMERGENCY LADDER - INSIDE B.W.W. LADDER - DETAIL

						elf aquitaine norge a/s p.o.box 168 4001 Stavanger	 elf	Job no.	Installation CDP 1	System UNDERWATER
								Scale	EMERGENCY LADDER ON CENTRAL SHAFT - GENERAL ARRANGEMENT	
Rev.	Date	DESCRIPTION	by	app.				Dwgr. no.	FF 91.36.35-1569	Rev.
Contractor JVD. 1029. 70. 10						4001 Stavanger	FRIGG FIELD			

GRID NORTH
19°37'
PLAT. NORTH



KEY PLAN



TYPICAL VIEW "A"

				elf aquitaine norge a/s p.o.box 168 4001 Stavanger		 elf FRIGG FIELD		Job no.		Installation CDP 1		System UNDERWATER			
								Scale /		WAY ABOVE EXTERNAL RAIL					
Rev.		Date		DESCRIPTION		by		app.		Dwgr. no.		Rev.		Sheet	
						JIC				FF 91.36_35_1570				/	
Contractor JVD 1029.70.11										4001 Stavanger					

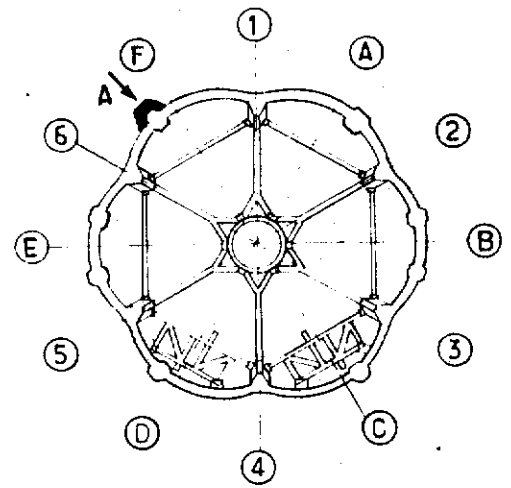
CDP 1 AS BUILT DRAWINGS

REFERENCE DRAWING LIST FOR:

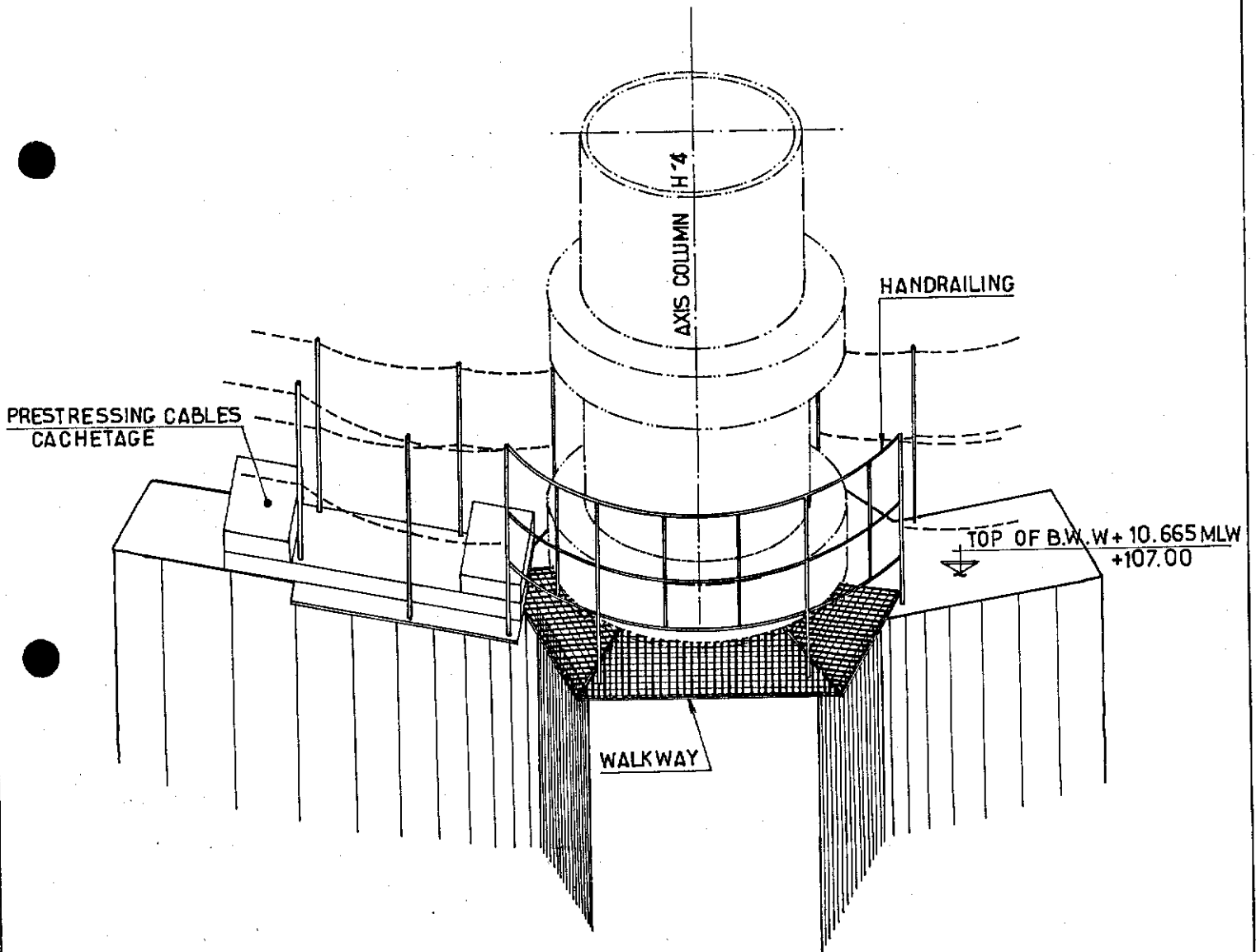
[illegible][illegible]

					elf aquitaine norge a/s p.o.box 168 4001 Stavanger	 elf	Job no.	Installation CDP 1	System UNDERWATER	
							Scale	WAL ABOVE EXTERNAL RAIL		
Rev.	Date	DESCRIPTION	by	app.	Contractor JVD 1029.70-11	FRIGG FIELD	Dwgr. no.	Rev.		Sheet
							FF	91.36.35.1570		/

GRD. NORTH
19°37'
PLAT. NORTH



KEY PLAN



VIEW "A"

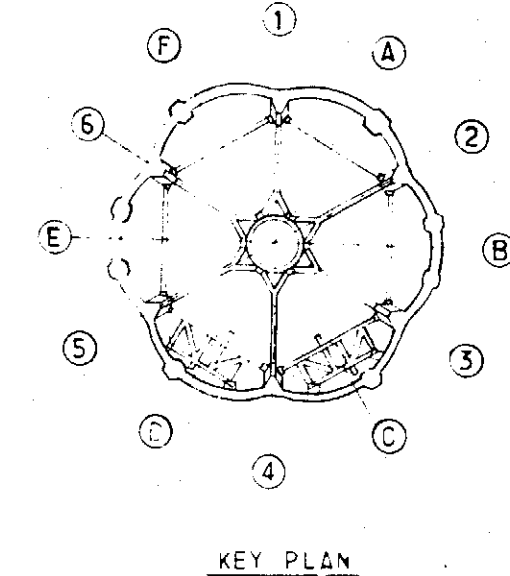
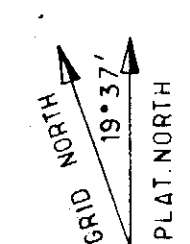
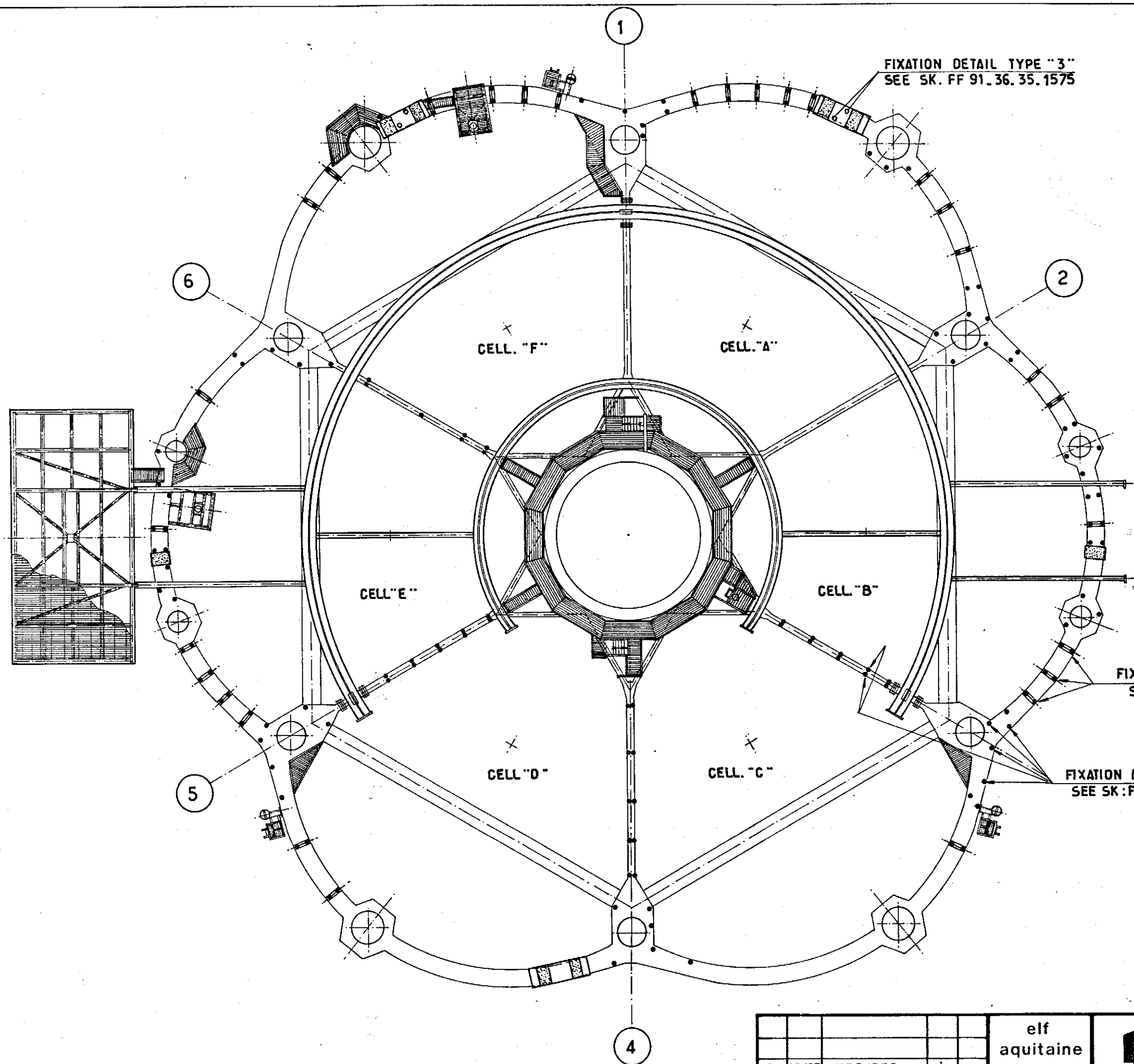
					elf aquitaine norge a/s p.o.box 168 4001 Stavanger	 elf FRIGG FIELD	Job no.	Installation CDP 1	System UNDERWATER	
							Scale —	WALKWAY AROUND COLUMN H'4		
Rev.	Date	DESCRIPTION	by	app.			Dwgr. no. FF 91.36.35.1571	Rev.	Sheet —	
Contractor JVD 1029.70.12										

CDP 1 AS BUILT DRAWINGS

REFERENCE DRAWING LIST FOR:

[illegible][illegible]

						elf aquitaine norge a/s p.o.box 168 4001 Stavanger	 elf	Job no.	Installation CDP 1	System UNDERWATER	
								Scale	WALKWAY AROUND COLUMN H'4		
Rev.	Date	DESCRIPTION	by	app.				Dwgr. no.		Rev.	Sheet
Contractor JVD 1029. 70- 12						4001 Stavanger	FRIGG FIELD	FF	91-36-35-1571		/

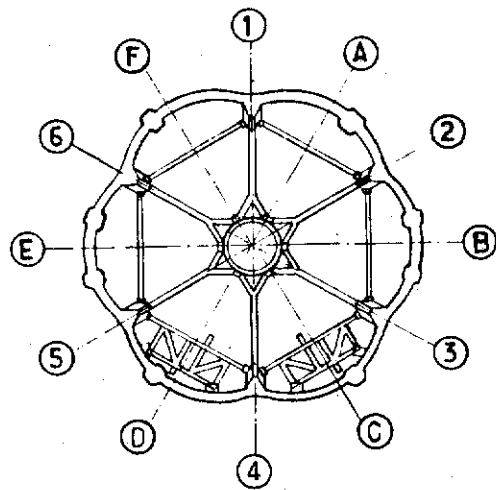
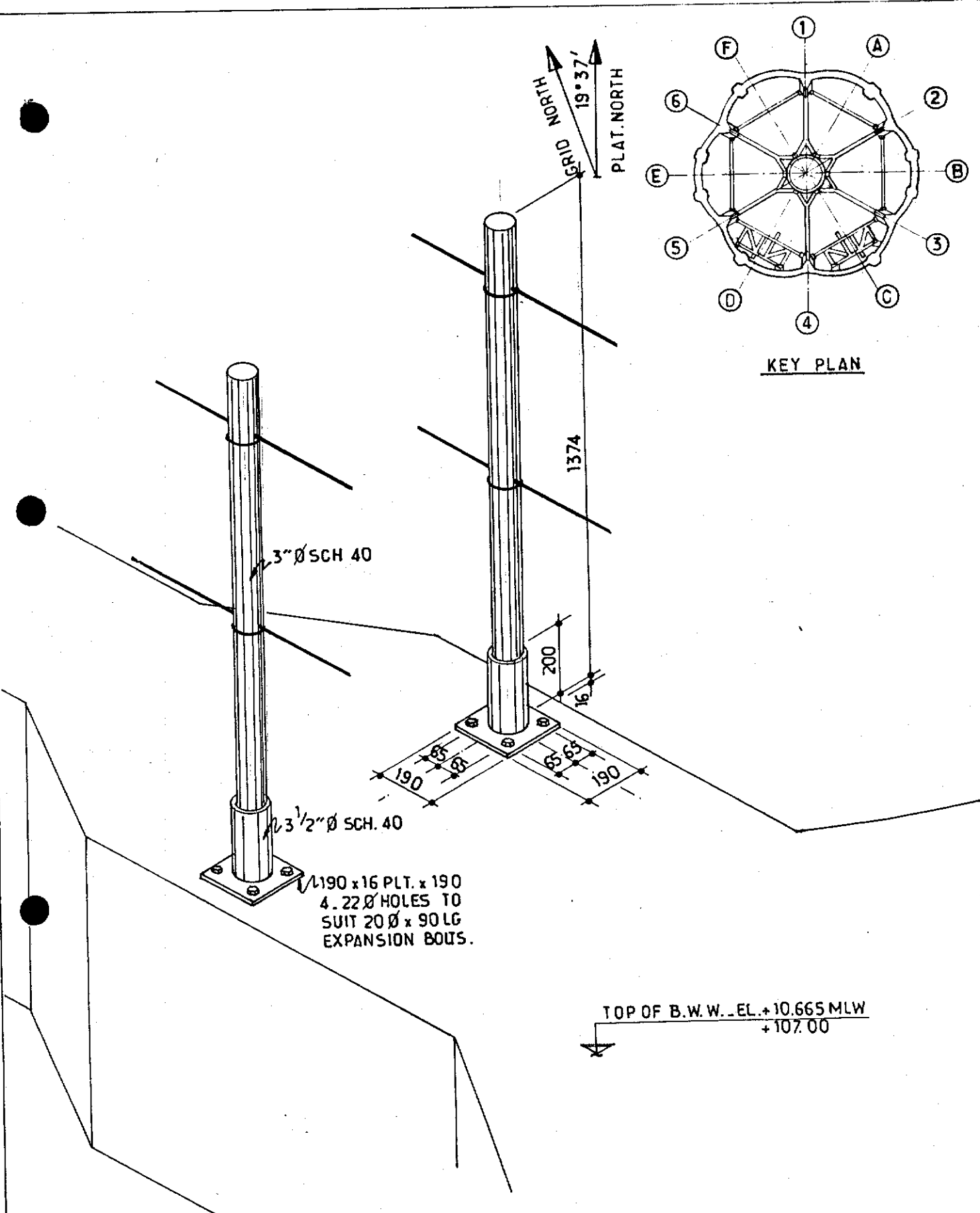


LEGENDE :

- - DETAIL "1"
- - DETAIL "2"
- - DETAIL "3"

NOTE : SEE GENERAL COMMENTS IN PARAGRAPH III

elf aquitaine norge a/s p.o.box 168 4001 Stavanger				elf		Job no.	Installation CDP 1	System UNDERWATER
1	12/83	UPDATED	mira J/LC	Scale		HANDRAIL GENERAL ARRANGEMENT ON TOP OF BREAKWATER WALL (102.00m)		
Contractor JVD 1029. 70.13				FRIGG FIELD		Dwgr. no.	FF 91_36_35_1572	1



KEY PLAN

TOP OF B.W.W. - EL. +10.665 MLW
+107.00

NOTES : _FOR LOCATION SEE SK. FF 91.36.35.1572

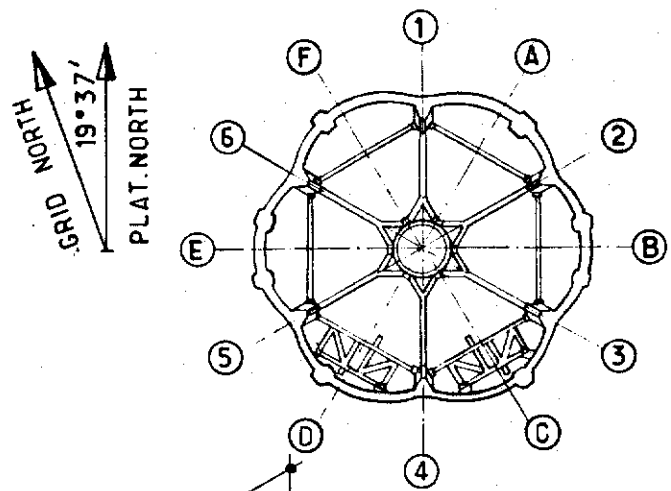
				elf aquitaine norge a/s		Job no.	Installation CDP 1	System UNDERWATER
12/83	UPDATED	m.	JLC	p.o.box 168		Scale	HANDRAIL FIXATION DETAIL TYPE 1	
Rev.	Date	DESCRIPTION	by	app.		Dwgr. no.	FF 91.36.35.1573	Rev 1
Contractor JVD 1029.70.14				4001 Stavanger		FRIGG FIELD		Sheet /

CDP 1 AS BUILT DRAWINGS

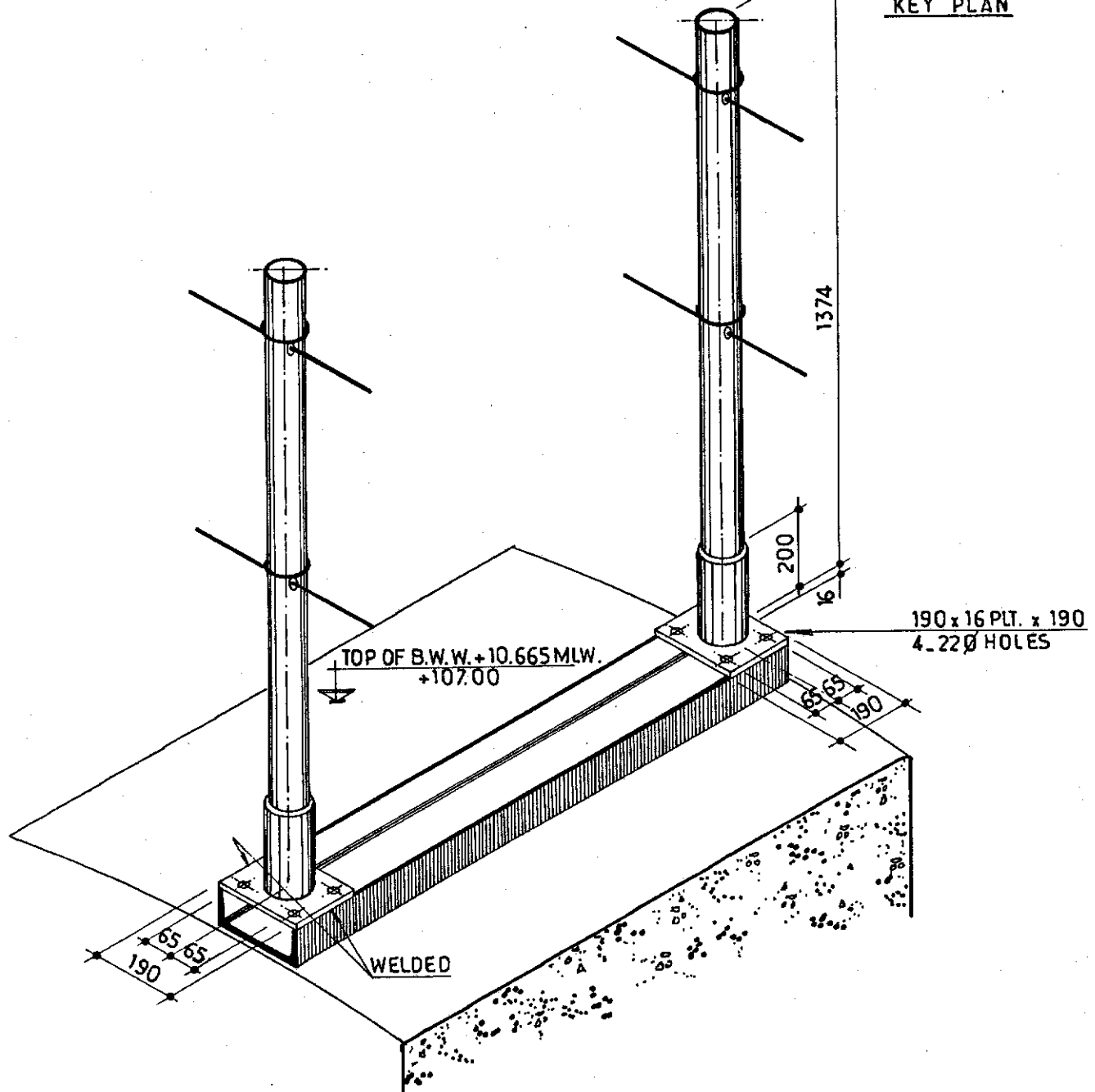
REFERENCE DRAWING LIST FOR:

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				elf aquitaine norge a/s p.o.box 168 4001 Stavanger	 elf	Job no.	Installation CDP 1	System UNDERWATER		
						Scale				
Rev.	Date	DESCRIPTION	by	app.	FRIGG FIELD	Dwgr. no.	FF — <u>1573</u>		Rev.	Sheet
Contractor						4001 Stavanger				/



KEY PLAN



NOTES : - FOR LOCATION SEE SK. FF. 91_36_35_1572

elf aquitaine norge a/s		elf		Job no.	Installation CDP 1	System UNDERWATER	
12/83	UPDATED	m.	JLC	Scale	HANDRAIL FIXATION DETAIL TYPE 2		
Rev.	Date	DESCRIPTION	by	app.	Dwgr. no.	Rev	Sheet
Contractor JVD 1029. 70. 15				4001 Stavanger	FRIGG FIELD	FF 91_36_35_1574	1

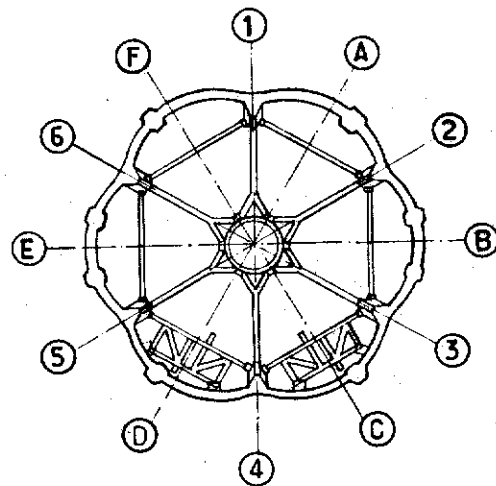
CDP 1 AS BUILT DRAWINGS

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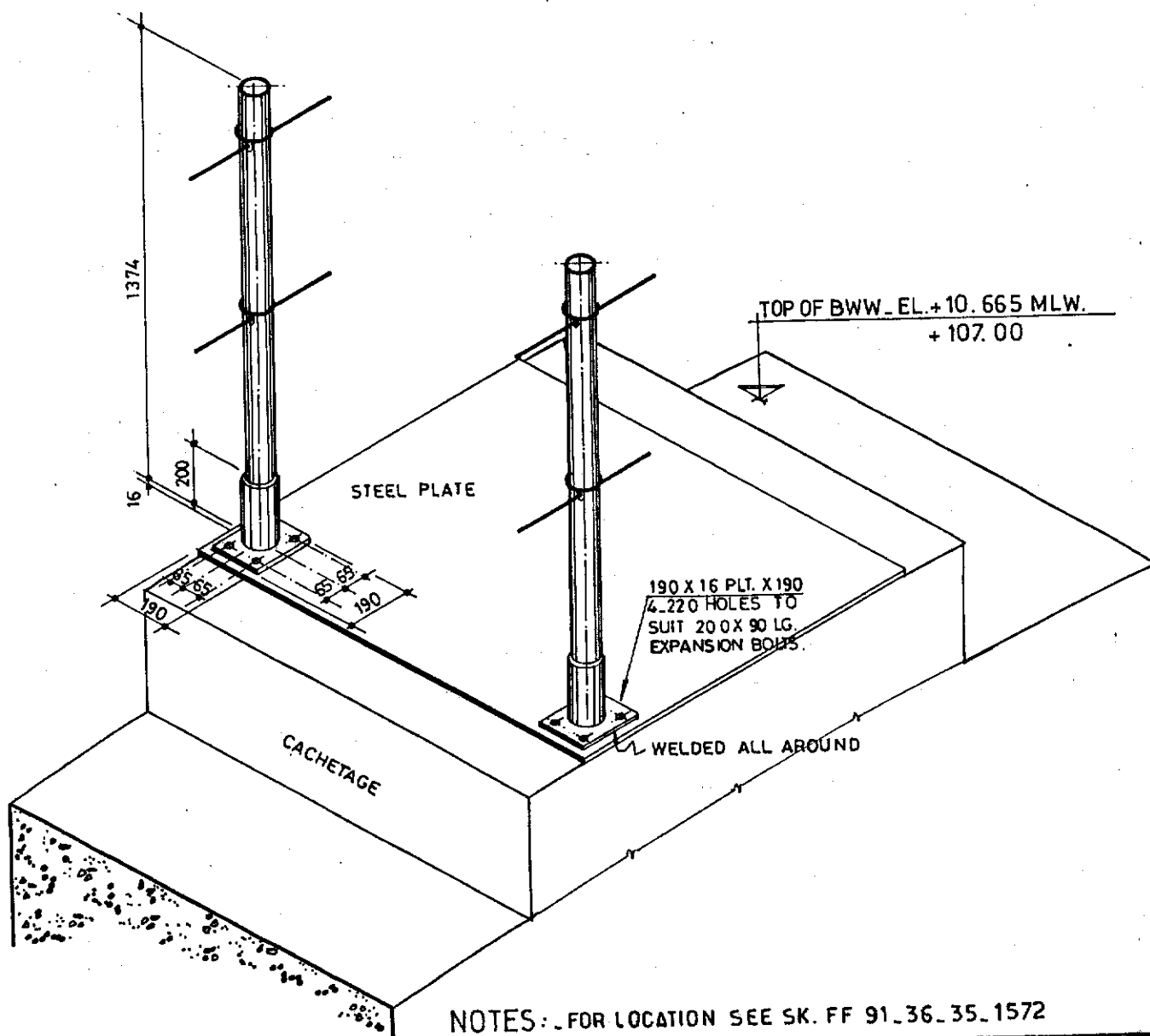
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					elf aquitaine norge a/s p.o.box 168 4001 Stavanger	 elf	Job no.	Installation CDP 1	System UNDERWATER	
							Scale			
Rev.	Date	DESCRIPTION	by	app.	FRIGG FIELD	Dwgr. no. FF	_____ <u>1574</u>		Rev.	Sheet /
Contractor										

HIGH NORTH
19° 37'
PLAT. NORTH



KEY PLAN



NOTES: FOR LOCATION SEE SK. FF 91_36_35_1572

					elf aquitaine norge a/s p.o.box 168 4001 Stavanger	 elf	Job no.	Installation CDP 1	System UNDERWATER		
12/83		UPDATED	m.	JLC			Scale /	HANDRAIL FIXATION DETAIL TYPE 3			
Rev.	Date	DESCRIPTION	by	app.			Dwgr. no. FF	91_36_35_1575		Rev. 1	Sheet /
Contractor JVD 1029. 70.16					FRIGG FIELD						

CDP 1 AS BUILT DRAWINGS

REFERENCE DRAWING LIST FOR:

[illegible][illegible]

				elf aquitaine norge a/s		 elf		Job no.		Installation CDP 1		System UNDERWATER		
				p.o.box 168				Scale						
Rev.	Date	DESCRIPTION	by	app.	4001 Stavanger		FRIGG FIELD		Dwgr. no. FF		1575		Rev.	Sheet
Contractor														/