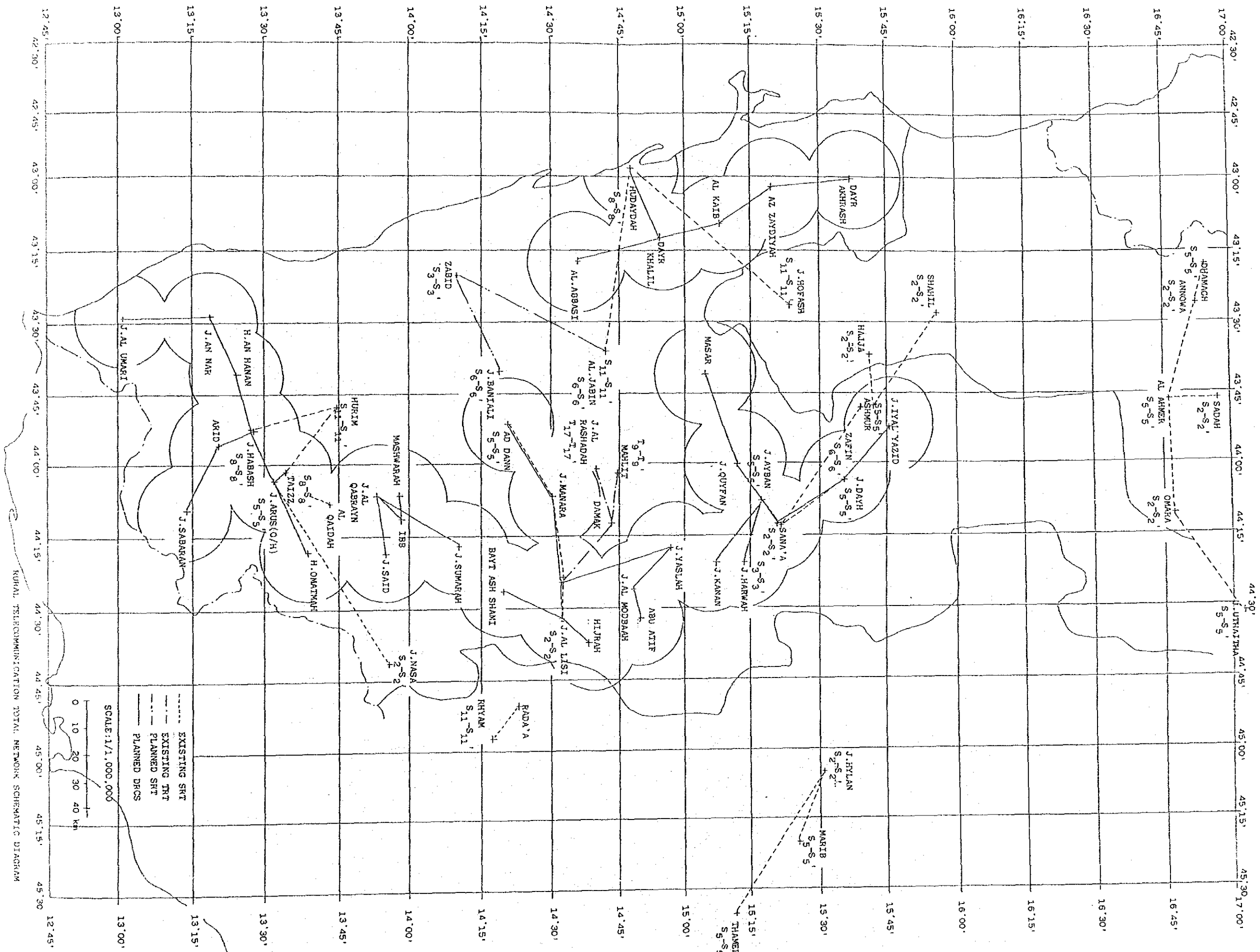


Drawing 1

RURAL TELECOMMUNICATION TOTAL NETWORK SCHEMATIC DIAGRAM

LEGEND

- : Existing SRT network
- : Existing TRT network
- : On-going SRT network
- : Planned DRCS network



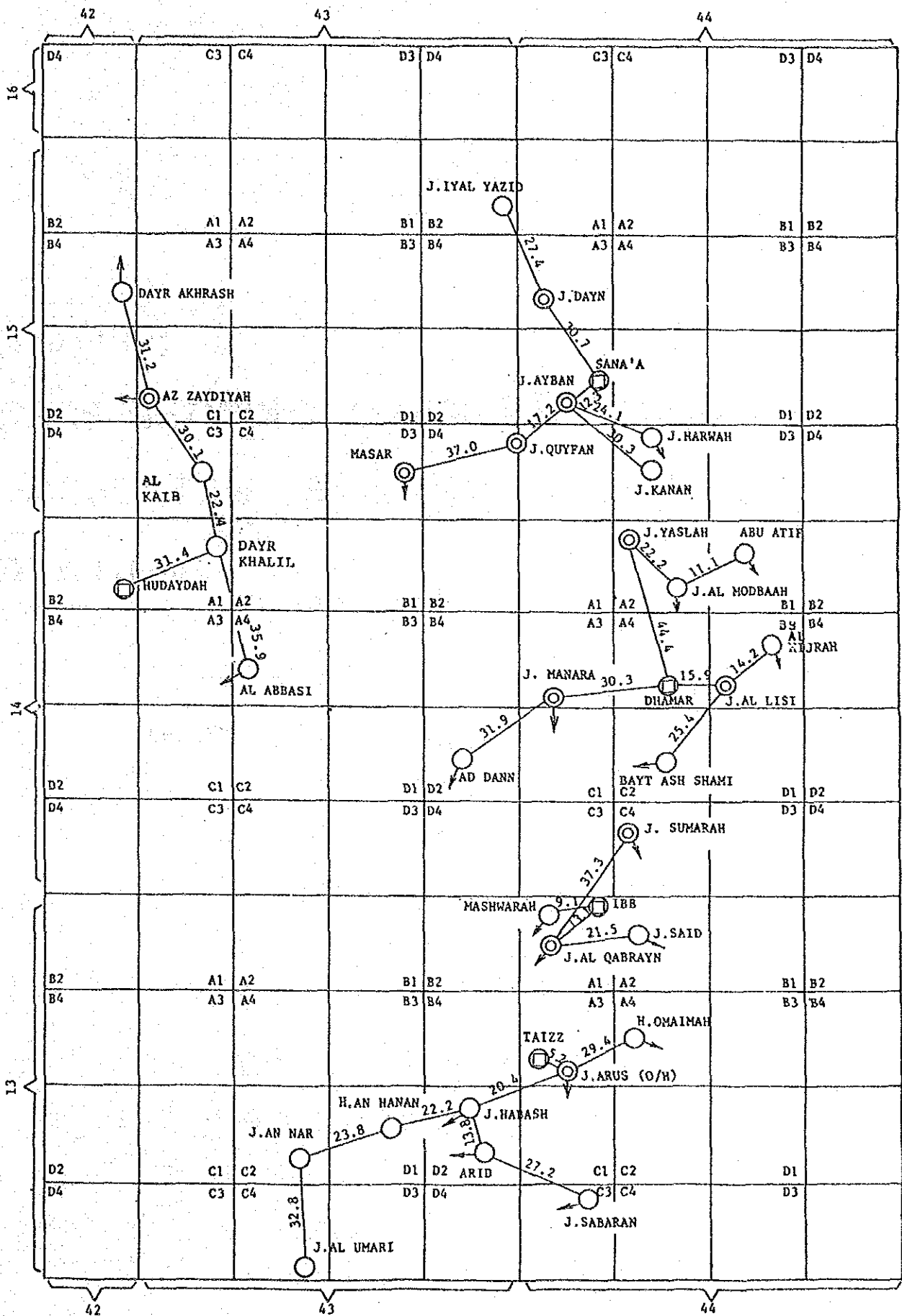
KURUL TELECOMMUNICATION TOTAL NETWORK SCHEMATIC DIAGRAM

Drawing 2

DRCS NETWORK SCHEMATIC DIAGRAM (BASE STATION – REPEATER STATION)

LEGEND

- : Base station
- ⊙ : Existing Repeater Station
- : Planned Repeater Station
- 12.3 : Transmission path length of 12.3km
- $\begin{matrix} 13, 14, 15, 16 \\ 43, 44 \\ A_1, \dots, D_4 \end{matrix}$: Map number (1/50,000 Scale)
- : Subscriber line interface



- 57 - DRCS NETWORK SCHEMATIC DIAGRAM (BASE/REPEATER STATIONS)

Drawing 3

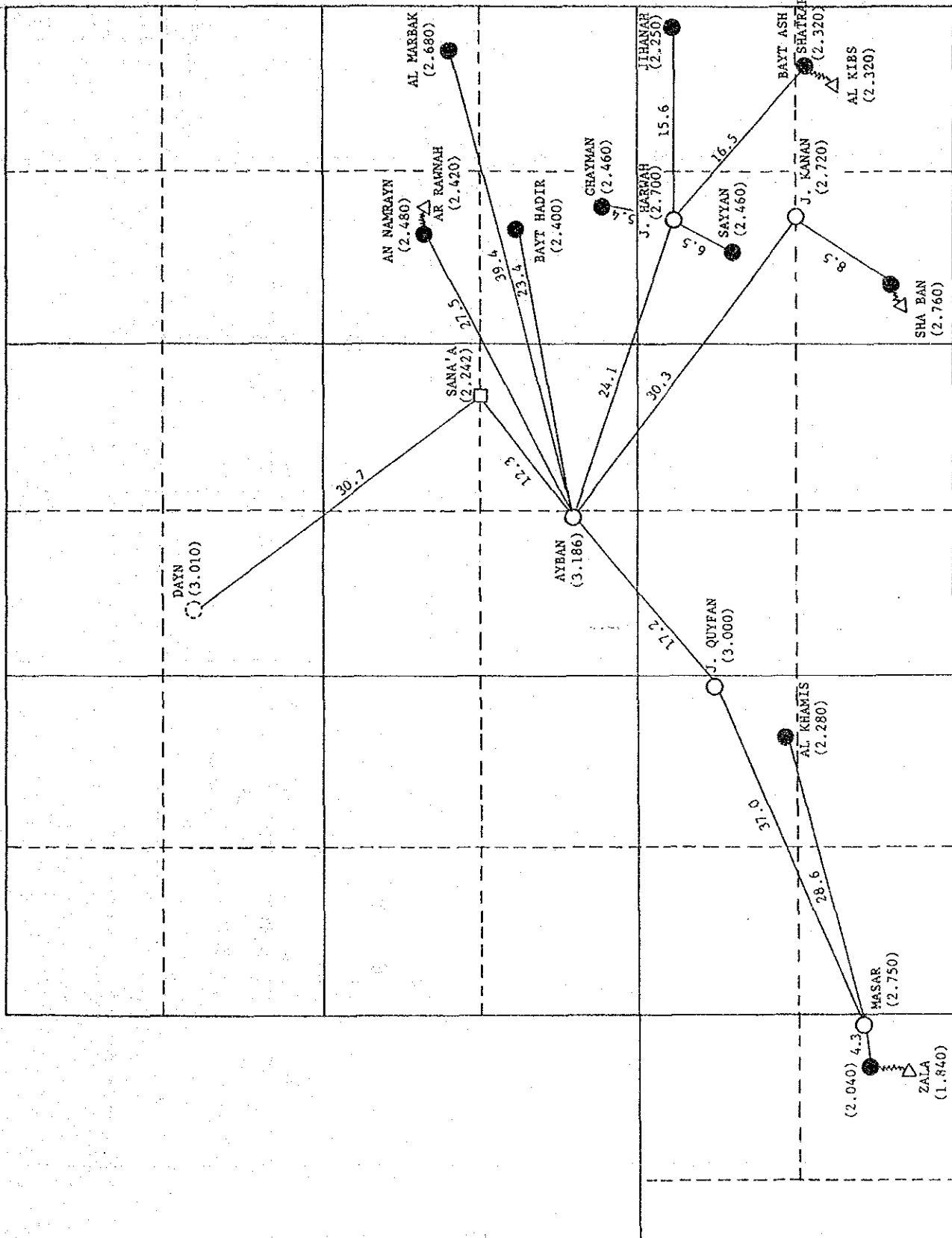
DRCS NETWORK SCHEMATIC DIAGRAM (REPEATER STATION – SUBSCRIBER STATION)

LEGEND

□	:	Base Station
○	:	Repeater Station
●	:	Subscriber Station
~△	:	Entrance Cables for Subscribers (Tentative Plan)
<u>10.1</u>	:	Distance of Radio Path ; 10.1km
(1.040)	:	Altitude of Station ; 1,040m

SANA'A B. S

AYBAN
 J. KANAN
 J. HARWAH
 J. QUYFAN
 MASAR
 R. S

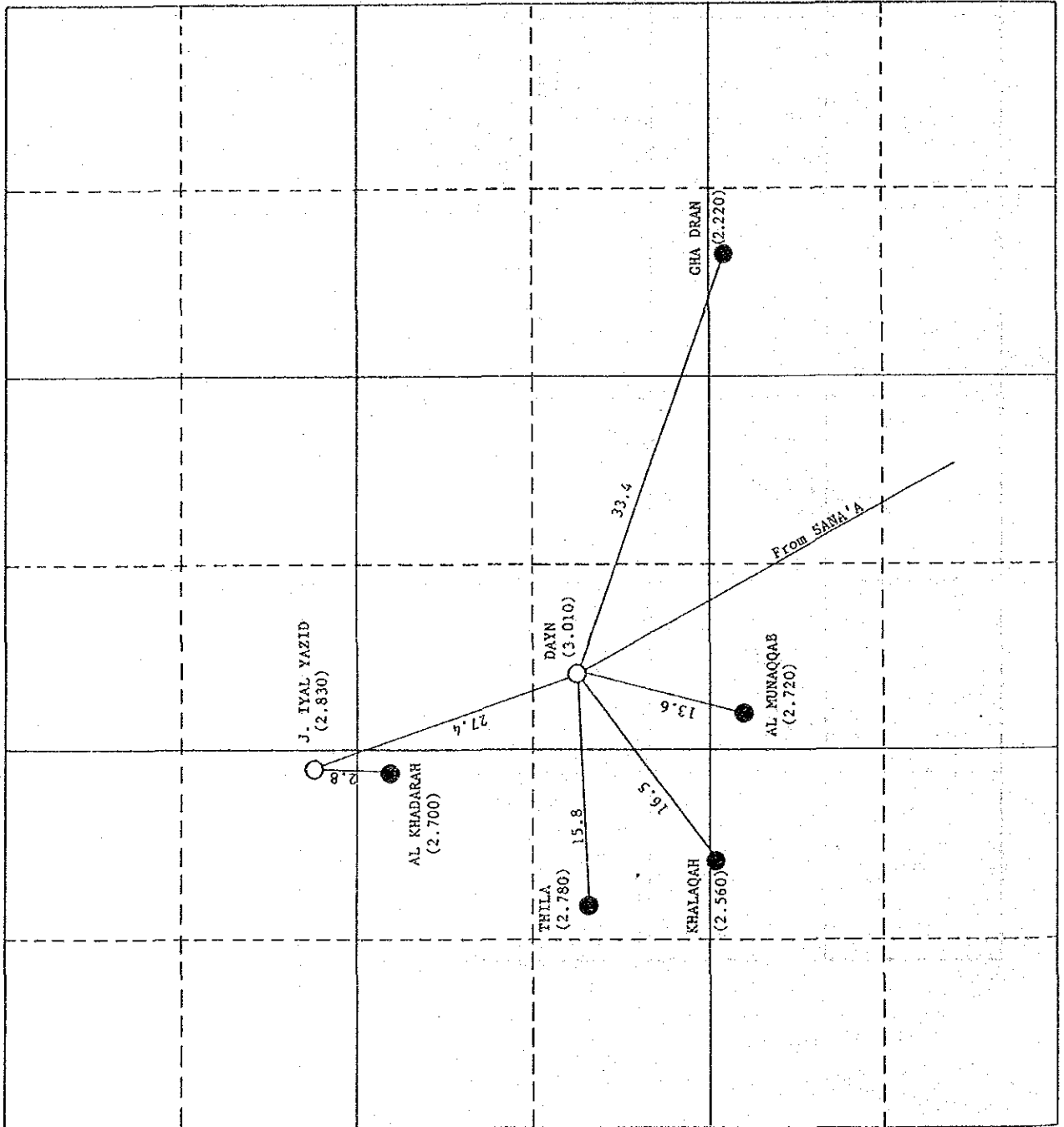


No. 1
 RELATED MAP NUMBER

1543	1544	1544	1544
B4	A3	A3	A4
1543	1544	1544	1544
D2	C1	C1	C2
1543	1543	1544	1544
D3	D4	C3	C4

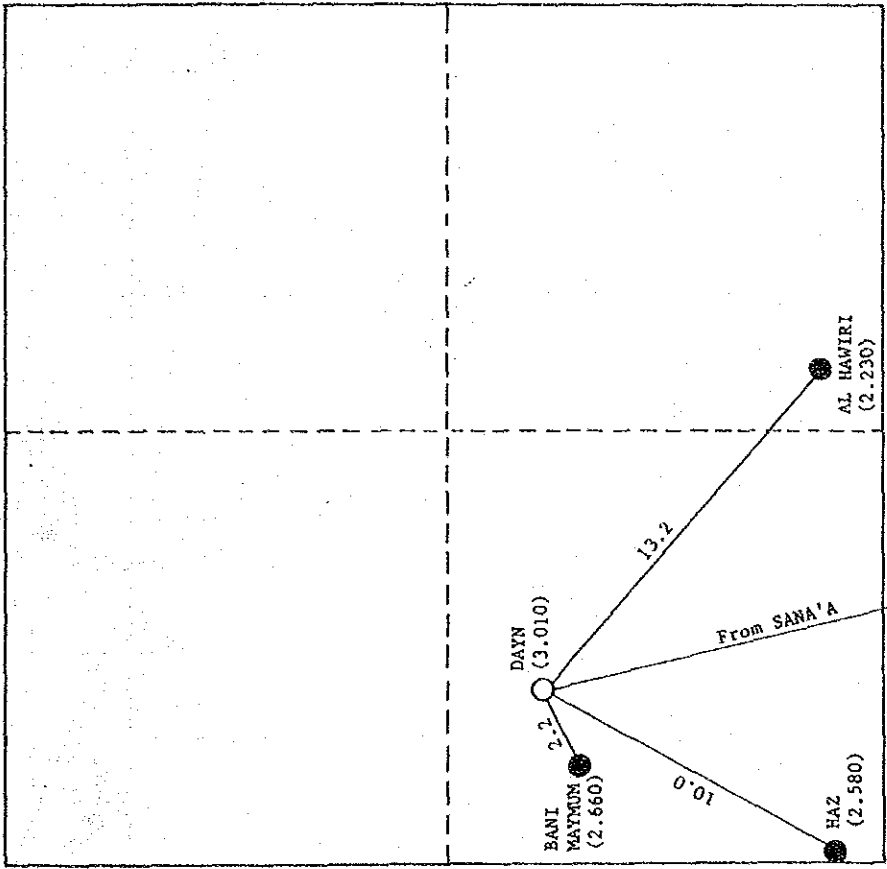
SANA'A B. S

DAYN
J. IYAL YAZID } R. S



No. 2
RELATED MAP NUMBER

1543 B2	1544 A1	1544 A2
1543 B4	1544 A3	1544 A4
1543 D2	1544 C1	1544 C2



SANA'A B.S

DAYN R.S

No. 3

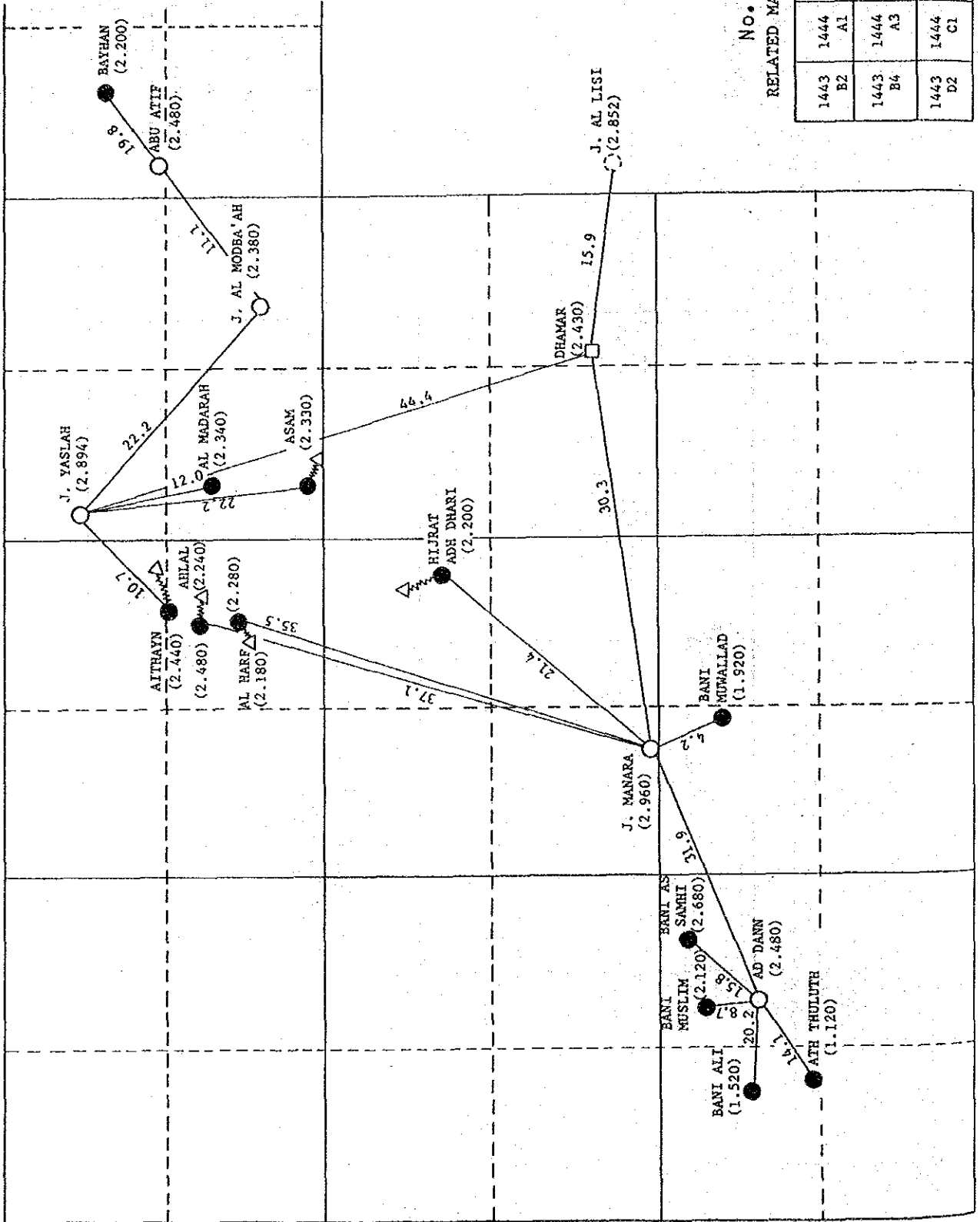
RELATED MAP NUMBER

	1544 43	

DHAMAR B.S

J. AL MODBA'AH
 J. YASLAH
 J. MANARA
 ABU ATIF
 AD DANN

R.S



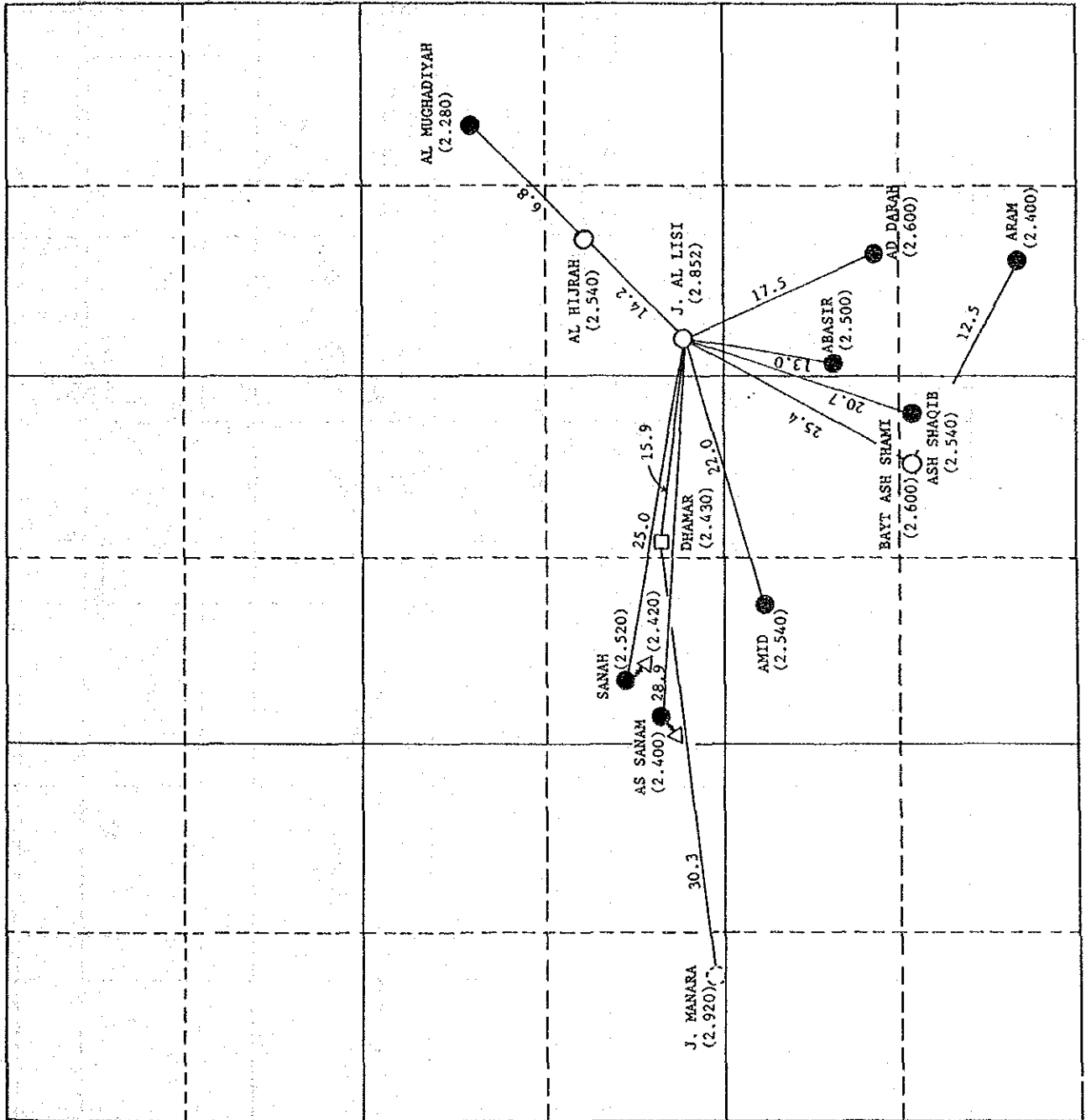
No. 5

RELATED MAP NUMBER

1443	1444	1444	1444
B2	A1	A2	B1
1443	1444	1444	1444
B4	A3	A4	A4
1443	1444	1444	1444
D2	C1	C2	C2

DHAMAR B. S

J. AL LISI
 AL HIJRAH } R. S
 BAYT ASH SHAMI



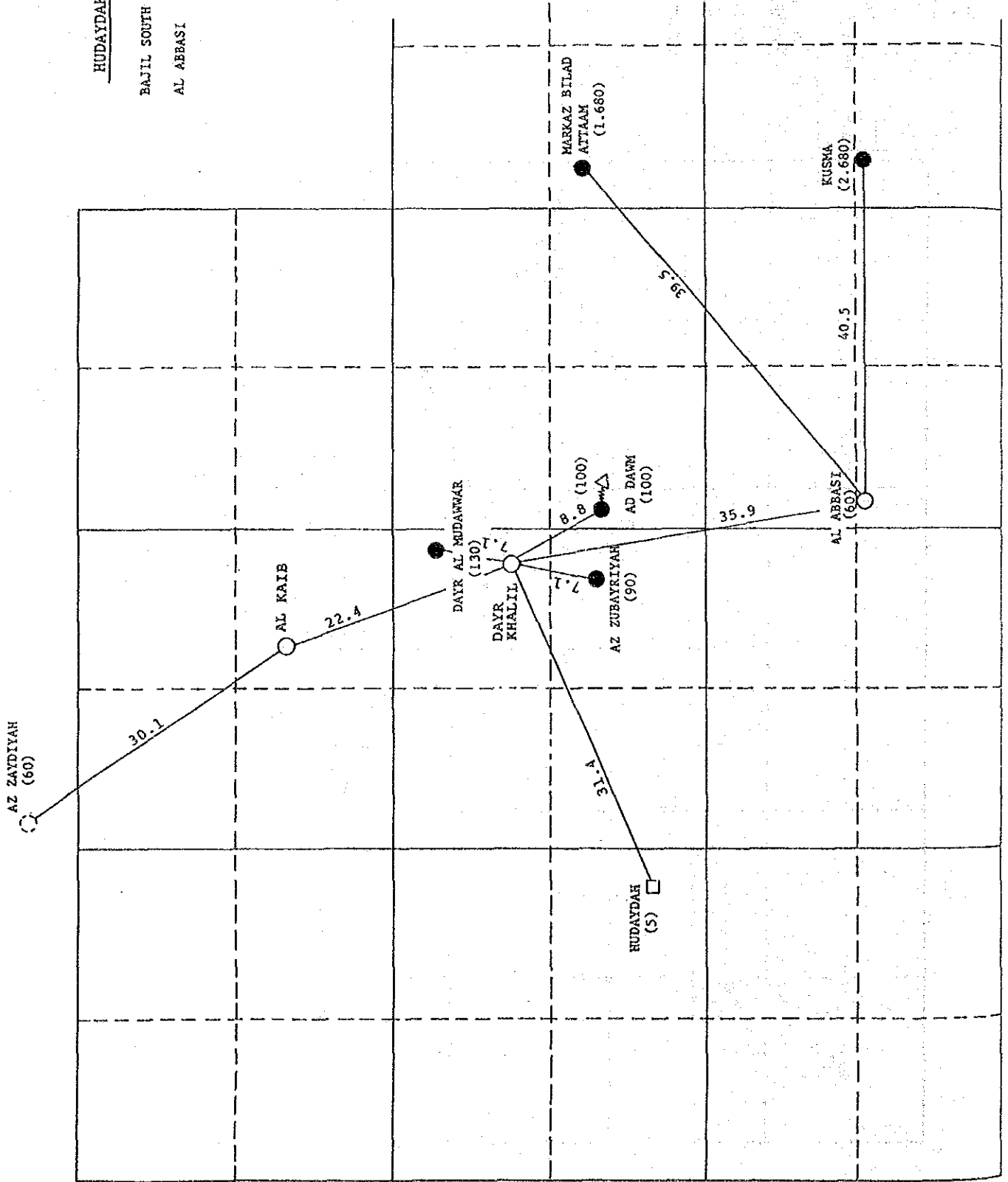
No. 4

RELATED MAP NUMBER

1444 A1	1444 A2	1444 B1
1444 A3	1444 A4	1444 B3
1444 C1	1444 C2	1444 D1

HUDAYDAH B. S

BAJIL SOUTH
AL ABBASI } R. S

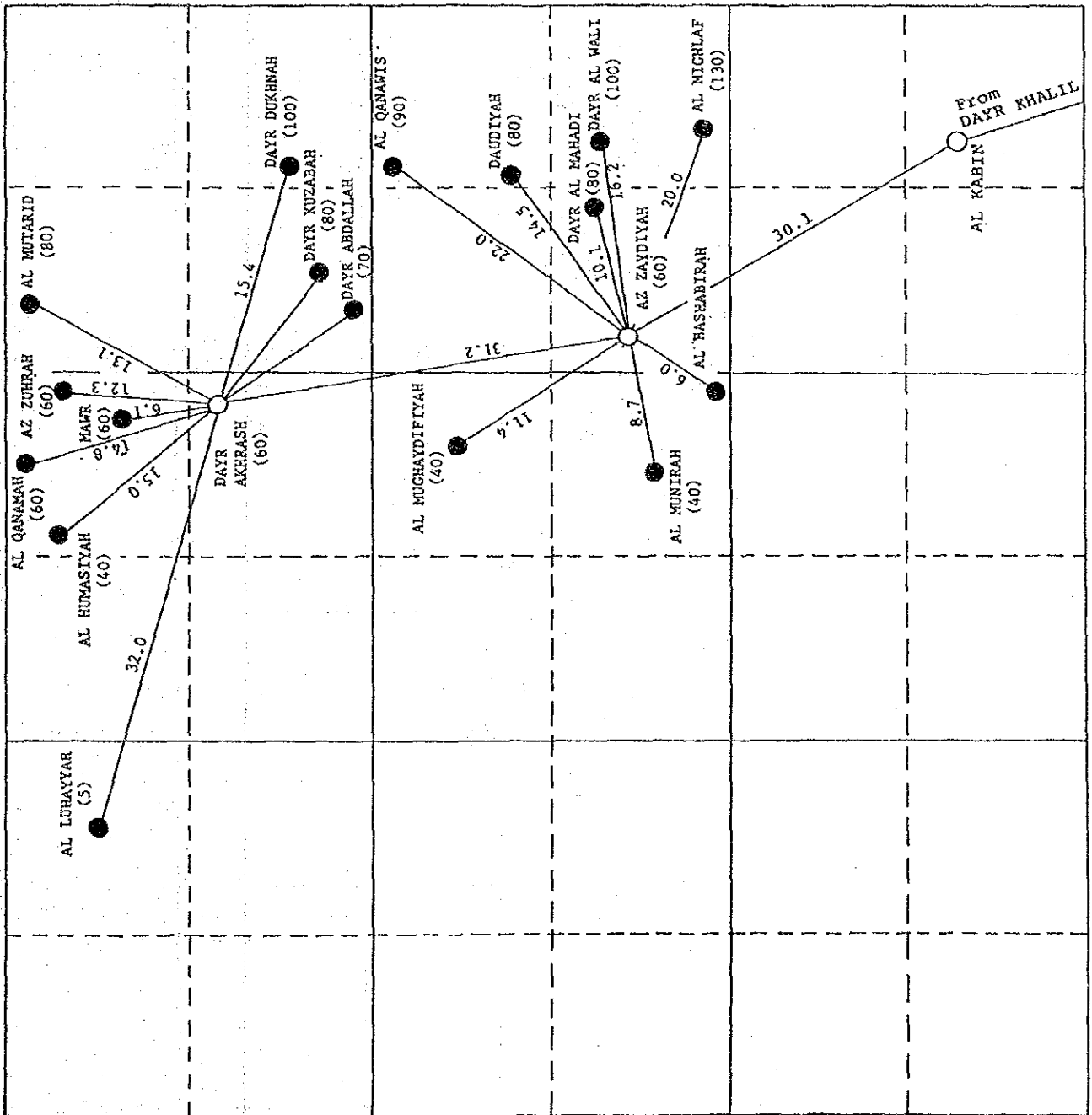


No. 6
RELATED MAP NUMBER

1542	1543	1543	1543
D4	C3	C4	C4
1442	1443	1443	1443
B2	A1	A2	B1
1442	1443	1443	1443
B4	A3	A4	B3

HUDAYDAH B. S.

DAYR AKHRASH
AZ ZAYDIYAH
R. S.



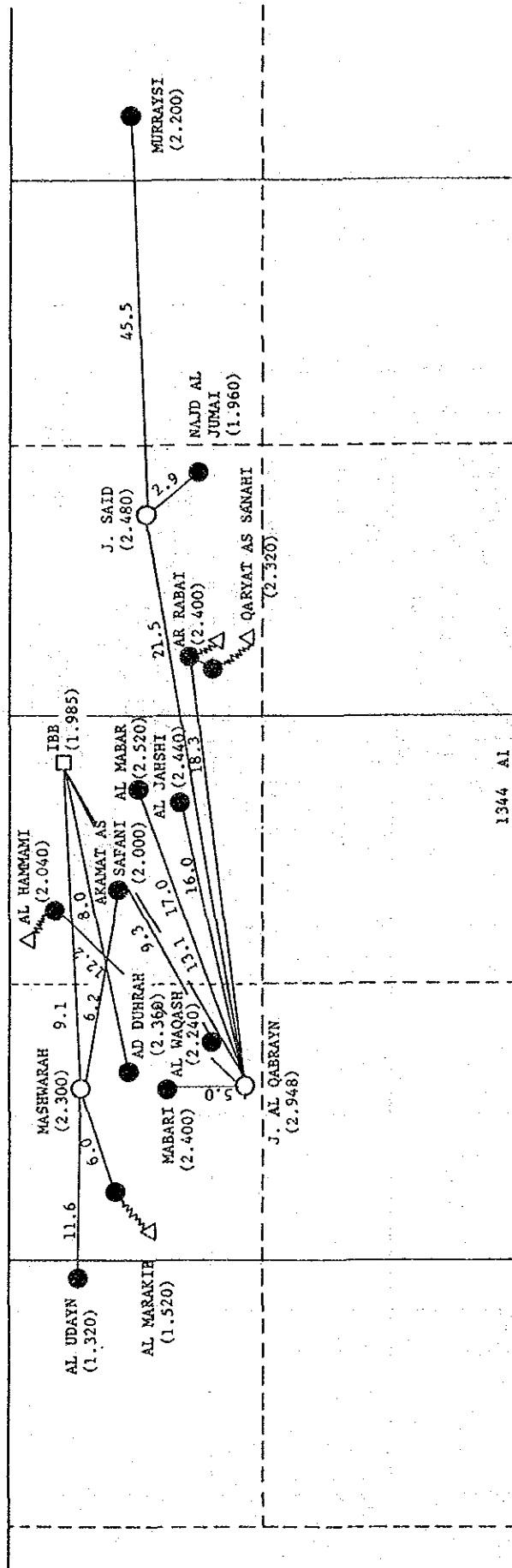
No. 7

RELATED MAP NUMBER

1542	1542	1542
B3	B4	A3
1542	1542	1543
D1	D2	C1
1542	1542	1543
D3	D4	C3

IBB B. S.

MASHWARAH
 J. AL QABRAYN } R. S
 J. SAID



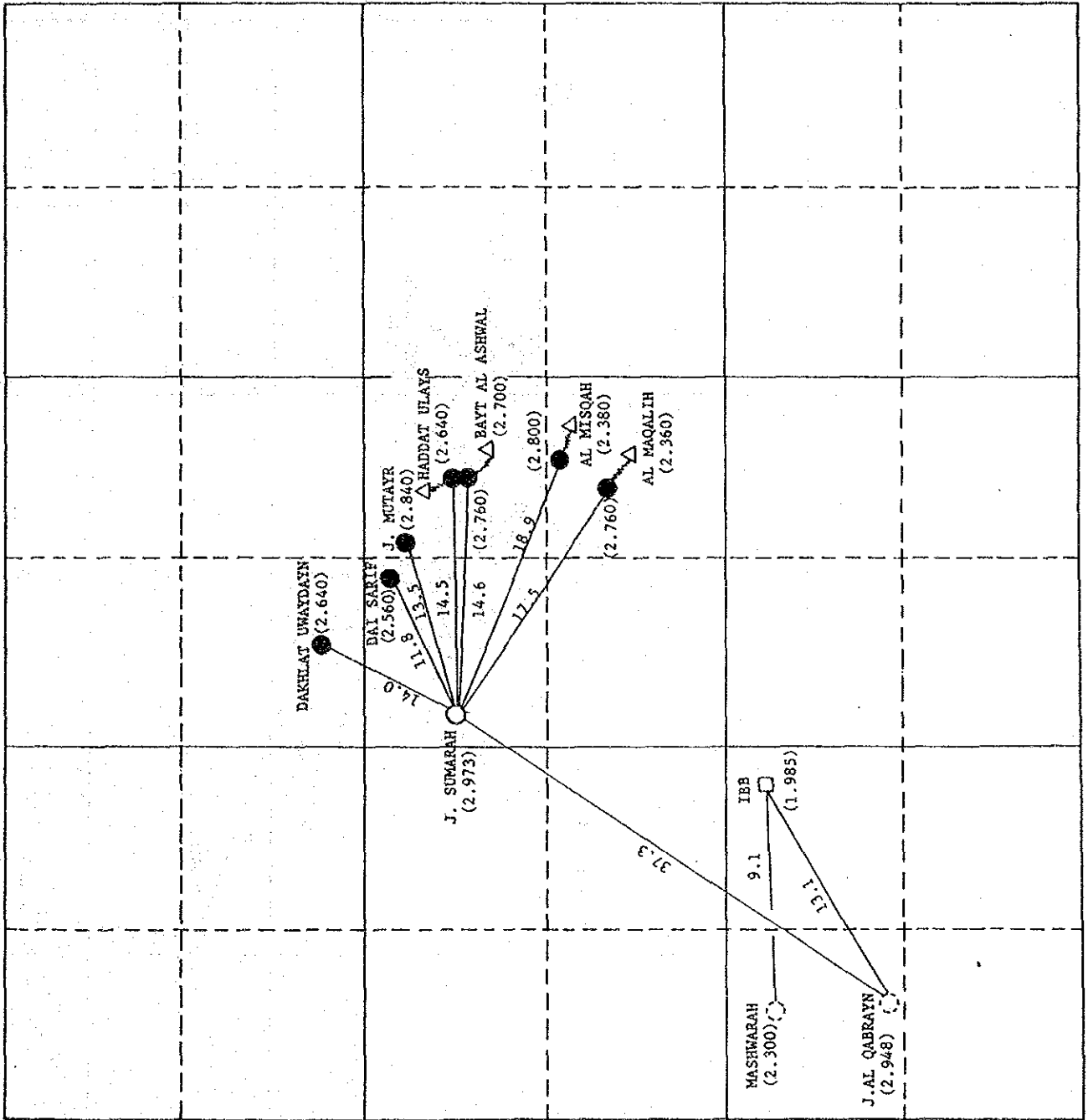
1344 AI

No. 8
 RELATED MAP NUMBER

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B2	AI	A2	BI

IBB B. S

J. SUMARAH R. S

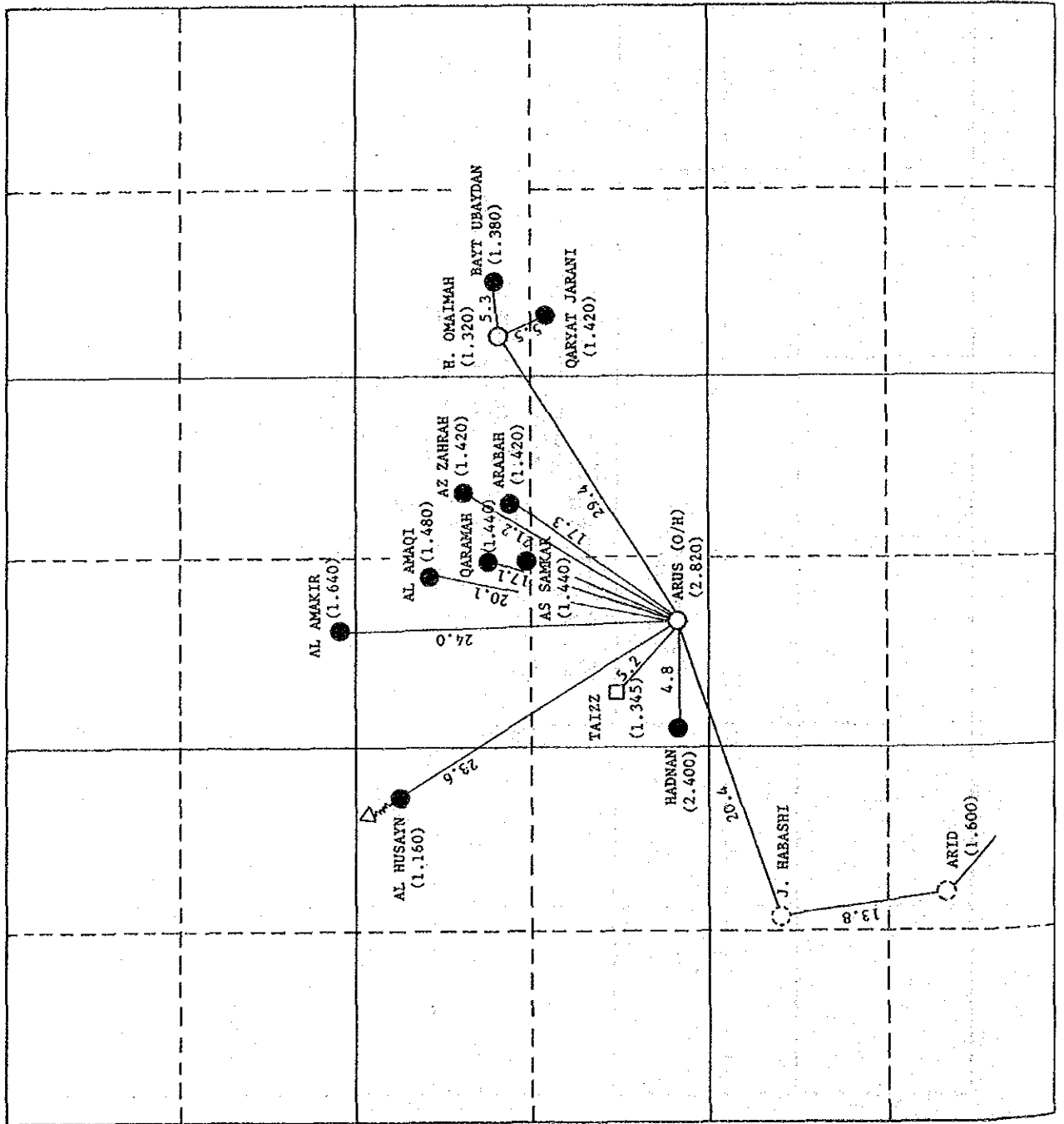


No. 9
RELATED MAP NUMBER

1444 C1	1444 C2	1444 D1
1444 C3	1444 C4	1444 D3
1344 A1	1344 A2	1344 B1

TAIZZ B. S

ARUS (O/H) }
 H. ONAIMAH } R. S



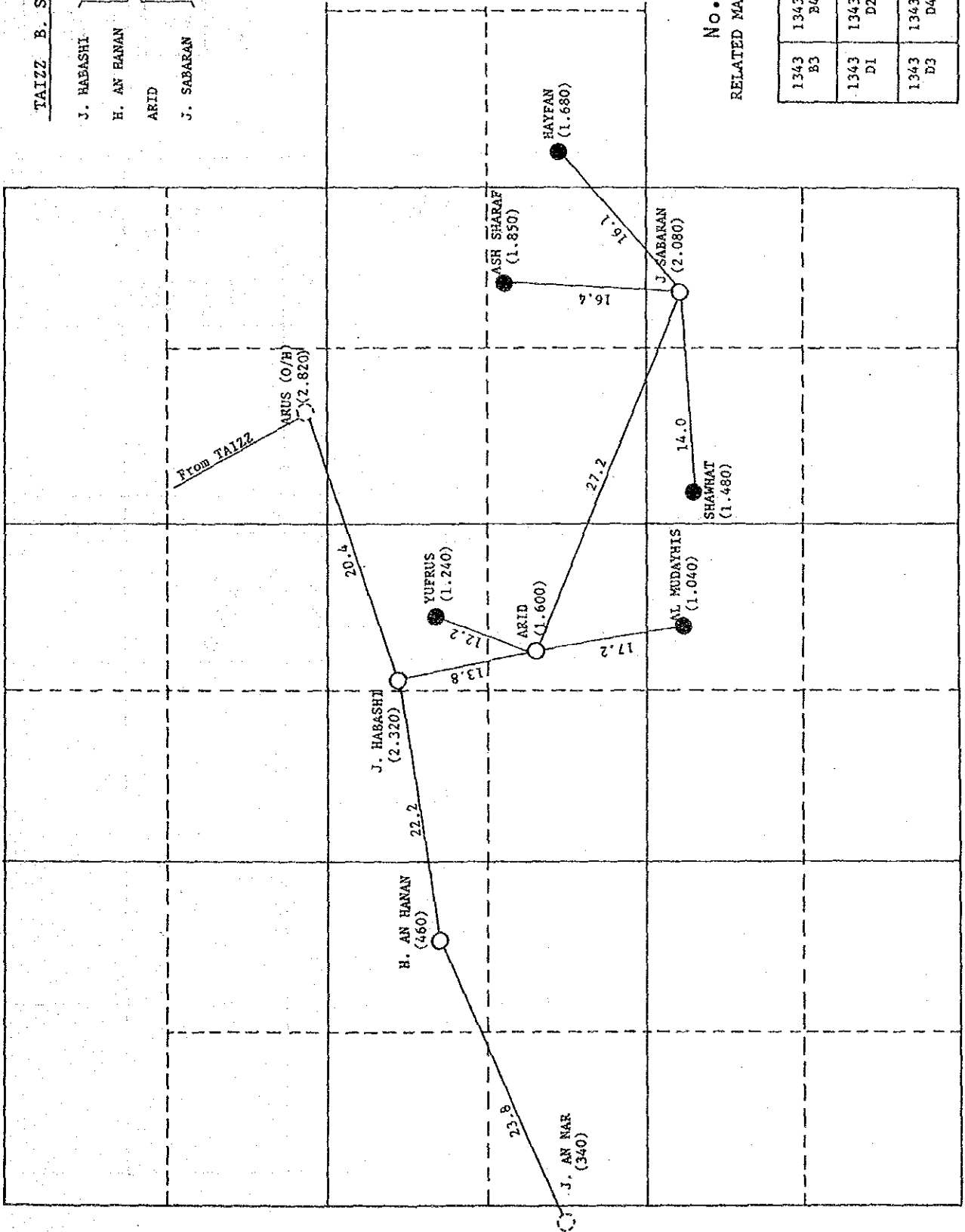
No. 10
 RELATED MAP NUMBER

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1343 B4	1344 A3	1344 A4
1343 D2	1344 C1	1344 C2

TAIZZ B. S

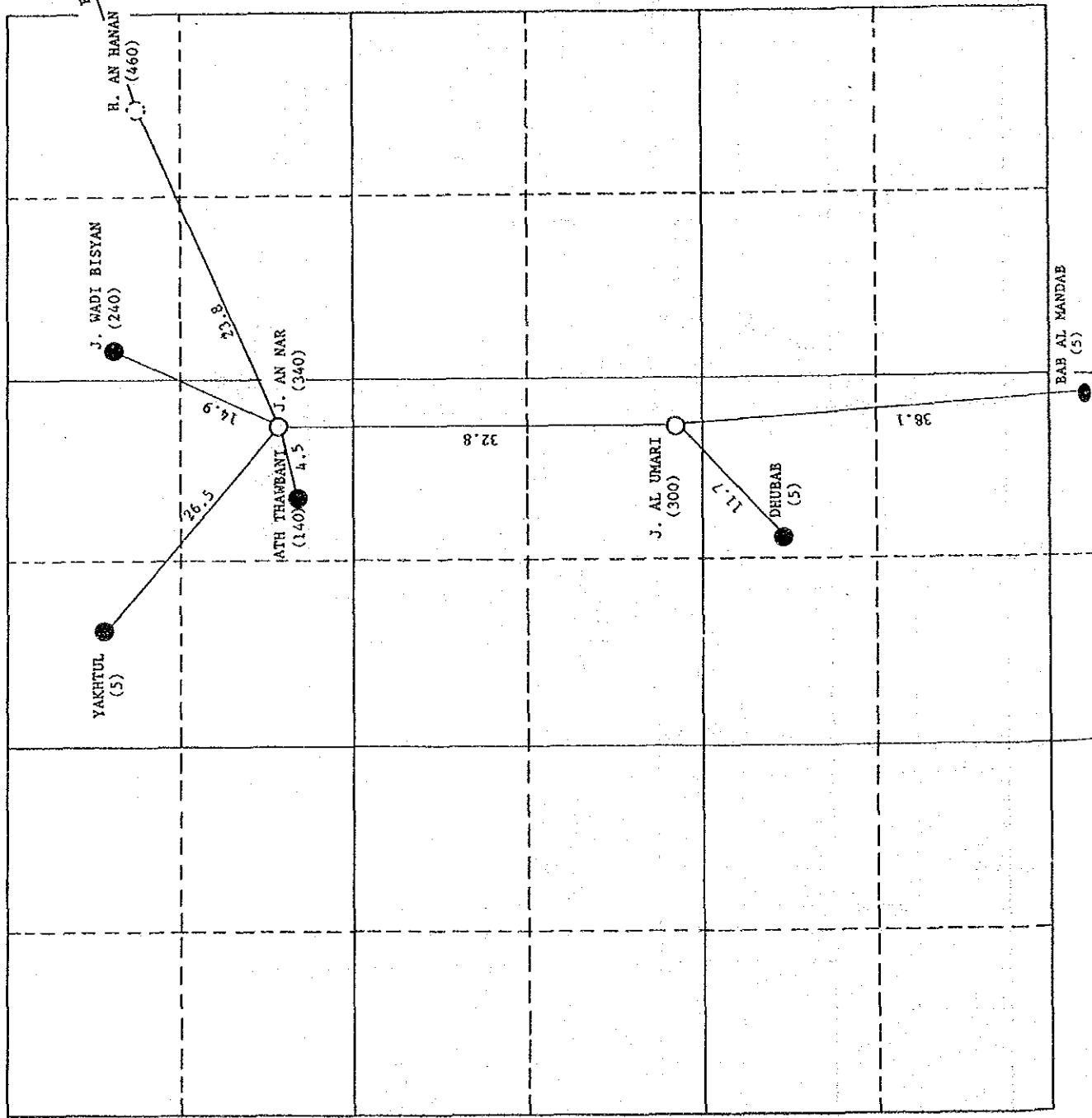
J. HABASHI
 H. AN HANAN
 ARID
 J. SABARAN

R. S



No. II
 RELATED MAP NUMBER

1343	1343	1344
B3	B4	A3
1343	1343	1344
D1	D2	C1
1343	1343	1344
D3	D4	C3



TAIZZ B. S

J. AN NAR } R. S
 J. AL UMARI }

No. 12
 RELATED MAP NUMBER

1343 C1	1343 C2	1343 D1
1343 C3	1343 C4	1343 D3
1243 A1	1243 A2	1243 B1
		1243 A4

Drawing 4 ANTENNA TYPE AND HEIGHT

LEGEND

BS	:	Base Station
REP	:	Repeater Station
SS	:	Subscriber Station
OMN	:	Omni-directional Antenna
GP	:	Grid-Parabolic Antenna

Antenna Type And Height (SANA'A) -- |

Base & Repeater Station

Site Name	Direction	Antenna Type	Antenna Height(M)	Availability of Tower
SANA'A BS.	REP.	OMNI x1	20	ON GOING
J.DAYN REP.	SANA'A BS.	1.2mD GPx1	10	EXISTING
	REP. S.S	OMNI x1	15	
J.AYBAN REP.	SANA'A BS.	HORN x1	10	EXISTING
	REP. S.S	OMNI x1	15	
J.HARWAH REP.	J.AYBAN REP.	HORN x1	10	NEW
	REP. S.S	OMNI x1	25	
J.KANAN REP.	J.AYBAN REP.	1.2mD GPx1	10	NEW
	S.S	OMNI x1	15	
J.QUYFAN REP.	J.AYBAN REP.	HORN x1	10	EXISTING
	REP. S.S	OMNI x1	15	
MASAR REP.	J.QUYFAN REP.	1.2mD GPx1	10	EXISTING
	S.S	OMNI x1	15	
J.IYAL YAZID REP.	J.DAYN REP.	HORN x1	10	NEW
	S.S	OMNI x1	20	

Subscriber Station

Site Name	Direction	Antenna Type	Antenna Height(M)	Availability of Tower
THILA	J.DAYN REP.	HORN x1	10	NEW
KHALAQAH	J.DAYN REP.	HORN x1	10	NEW
AL MUNAQQAB	J.DAYN REP.	HORN x1	10	NEW
GHADLAN	J.DAYN REP.	HORN x1	10	NEW
BANI MAYMUN	J.DAYN REP.	HORN x1	10	NEW
HAZ	J.DAYN REP.	HORN x1	10	NEW
AL HAWIRI	J.DAYN REP.	HORN x1	10	NEW
AL KHADARAH	J.IYAL YAZID REP.	HORN x1	10	NEW
AL MARBAK	J.AYBAN REP.	1.2mD GPx1	10	NEW
BAYT HADIR	J.AYBAN REP.	HORN x1	10	NEW
AR RAWNAH	J.AYBAN REP.	HORN x1	10	NEW
ZALA	MASAR REP.	HORN x1	10	NEW
AL KHAMIS	MASAR REP.	HORN x1	10	NEW
GHAYMAN	J.HARWAH REP.	HORN x1	10	NEW
JIHANAH	J.HARWAH REP.	HORN x1	10	NEW
AL KIBS	J.HARWAH REP.	HORN x1	10	NEW
SAYYAN	J.HARWAH REP.	HORN x1	10	NEW
SHABAN	J.KANAN REP.	HORN x1	10	NEW

Antenna Type And Height (DHAMAR) - 2

Base & Repeater station

Site Name	Direction	Antenna Type	Antenna Height(M)	Availability of Tower
DHAMAR BS.	REP. S.S	OMNI x1	20	ON GOING
J.YASLAH REP	DHAMAR BS.	3.0mD GPx1	10	EXISTING
	REP. S.S	OMNI x1	15	
J.AL MODBAAH REP.	J.YASLAH REP.	HORN x1	10	NEW
	REP. S.S	OMNI x1	15	
ABU ATIF REP.	J.AL MODBAAH REP.	HORN x1	10	NEW
	S.S	OMNI x1	15	
J.MANARA REP.	DHAMAR BS.	1.2mD GPx1	4	EXISTING
	REP. S.S	OMNI x1	9	
AD DANN REP.	J.MANARA REP.	1.2mD GPx1	10	NEW
	S.S	OMNI x1	15	
J.AL LISI REP.	DHAMAR BS.	HORN x1	15	EXISTING
	REP. S.S	OMNI x1	20	
AL HIJAH REP.	J.AL LISI REP.	HORN x1	10	NEW
	S.S	OMNI x1	15	
BYT ASH SHAMI REP.	J.AL LISI REP.	HORN x1	10	NEW
	S.S	OMNI x1	15	

Subscriber Station

Site Name	Direction	Antenna Type	Antenna Height(M)	Availability of Tower
AITHAYN	J.YASLAH REP	HORN x1	10	NEW
ASAM	J.YASLAH REP	HORN x1	10	NEW
AL MADARAH	J.YASLAH REP	HORN x1	10	NEW
BAYHAN	ABU ATIF REP.	HORN x1	10	NEW
AHLAL	J.MANARA REP.	1.2mD GPx1	10	NEW
AL HARF	J.MANARA REP.	1.2mD GPx1	10	NEW
HIJRAT ADH DHARI	J.MANARA REP.	HORN x1	10	NEW
BANI MUWALLAD	J.MANARA REP.	HORN x1	10	NEW
BANI AS SAMHI	AD DANN REP.	HORN x1	10	NEW
BANI MUSLIM	AD DANN REP.	HORN x1	10	NEW
BANI ALI	AD DANN REP.	HORN x1	10	NEW
ATH THULUTH	AD DANN REP.	HORN x1	10	NEW
AD DARAH	J.AL LISI REP.	HORN x1	10	NEW
ABASIR	J.AL LISI REP.	HORN x1	10	NEW
ASH SHAQB	J.AL LISI REP.	HORN x1	10	NEW
AMID	J.AL LISI REP.	HORN x1	10	NEW
AS SANAM	J.AL LISI REP.	HORN x1	10	NEW
SANAH	J.AL LISI REP.	HORN x1	10	NEW
AL MUGHADIYAH	AL HIJAH REP.	HORN x1	10	NEW
ARAM	BYT ASH SHAMI REP.	HORN x1	10	NEW

Antenna Type And Height (HUDAYDAH) — 3

Base & Repeater Station

Site Name	Direction	Antenna Type	Antenna Height(M)	Availability of Tower
HUDAYDAH BS.	REP.	OMNI x1	25	EXISTING
DAYR KHALIL REP.	HUDAYDAH BS.	3.0mD GPx1	40	NEW
	REP. S.S	OMNI x1	40	
AZ ZAYDIYAH REP.	AL KAIB REP.	3.0mD GPx1	59	NEW
	REP. S.S	OMNI x1	60	
DAYR AKHRASH REP.	AZ ZAYDIYAH REP.	2.4mD GPx1	34	NEW
	S.S	OMNI x1	50	
AL KAIB REP.	DAYR KHALIL REP.	1.2mD GPx1	25	NEW
	S.S	OMNI x1	30	
AL ABBASI REP	DAYR KHALIL REP.	3.0mD GPx1	58	NEW
	S.S	OMNI x1	58	

Subscriber Station

Site Name	Direction	Antenna Type	Antenna Height(M)	Availability of Tower
AD DAWM	DAYR KHALIL REP.	HORN x1	10	NEW
AZ ZUBAYRIYAH	DAYR KHALIL REP.	HORN x1	10	NEW
DAYR AL MUDAWWAR	DAYR KHALIL REP.	HORN x1	10	NEW
AL MUGHAYDIYAH	AZ ZAYDIYAH REP.	HORN x1	12	NEW
AL QANAWIS	AZ ZAYDIYAH REP.	HORN x1	10	NEW
DAUDIYAH	AZ ZAYDIYAH REP.	HORN x1	10	NEW
DAYR AL MAHADI	AZ ZAYDIYAH REP.	HORN x1	10	NEW
DAYR AL WALI	AZ ZAYDIYAH REP.	HORN x1	10	NEW
AL MIGHLAP	AZ ZAYDIYAH REP.	HORN x1	10	NEW
AL HASHABIRAH	AZ ZAYDIYAH REP.	HORN x1	10	NEW
AL MUNIRAH	AZ ZAYDIYAH REP.	HORN x1	10	NEW
AL LUHAYYAH	DAYR AKHRASH REP.	1.8mD GPx1	16	NEW
AL HUMASIYAH	DAYR AKHRASH REP.	HORN x1	10	NEW
AL QANAMAH	DAYR AKHRASH REP.	HORN x1	10	NEW
MAWR	DAYR AKHRASH REP.	HORN x1	10	NEW
AZ ZUHRAH	DAYR AKHRASH REP.	HORN x1	12	NEW
AL MUTARID	DAYR AKHRASH REP.	HORN x1	10	NEW
DAYR DUKHNAH	DAYR AKHRASH REP.	HORN x1	10	NEW
DAYR KUZABAH	DAYR AKHRASH REP.	HORN x1	10	NEW
DAYR ABDALLAH	DAYR AKHRASH REP.	HORN x1	10	NEW
KUSMA	AL ABBASI REP	1.8mD GPx1	10	NEW
MARKAZ BILAD ATTAAM	AL ABBASI REP	1.8mD GPx1	10	NEW

Antenna Type And Height (IBB) — 4

Base & Repeater Station

Site Name	Direction	Antenna Type	Antenna Height(M)	Availability of Tower
IBB BS.	REP. S.S	OMNI x1	20	ON GOING
J.AL QABRAYN REP.	IBB BS.	HORN x1	10	EXISTING
	REP. S.S	OMNI x1	15	
J.SAID REP.	J.AL QABRAYN REP.	HORN x1	10	NEW
	S.S	OMNI x1	15	
MASHWARAH REP.	IBB BS.	HORN x1	10	NEW
	S.S	OMNI x1	15	
J.SUMARAH REP.	J.AL QABRAYN REP.	1.2mD GPx1	10	EXISTING
	S.S	OMNI x1	15	

Subscriber Station

Site Name	Direction	Antenna Type	Antenna Height(M)	Availability of Tower
AL WAQASH	IBB BS.	HORN x1	10	NEW
AD DUHRAH	IBB BS.	HORN x1	10	NEW
MABARI	J.AL QABRAYN REP.	HORN x1	10	NEW
AL HAMMAMI	J.AL QABRAYN REP.	HORN x1	10	NEW
AL MABAR	J.AL QABRAYN REP.	HORN x1	10	NEW
AL JAHSHI	J.AL QABRAYN REP.	HORN x1	10	NEW
AR RABAI	J.AL QABRAYN REP.	HORN x1	10	NEW
QARYAT AS SANABI	J.AL QABRAYN REP.	HORN x1	10	NEW
NAJD AL JUMAI	J.SAID REP.	HORN x1	10	NEW
MURRAYSI	J.SAID REP.	1.8mD GPx1	10	NEW
AL UDAYN	MASHWARAH REP.	HORN x1	10	NEW
AL MARAKIB	MASHWARAH REP.	HORN x1	10	NEW
AKAMAT AS SAFANI	MASHWARAH REP.	HORN x1	10	NEW
DAKHLAT UWAYDAYN	J.SUMARAH REP.	HORN x1	10	NEW
DHI SARIF	J.SUMARAH REP.	HORN x1	10	NEW
J.MUTAYR	J.SUMARAH REP.	HORN x1	10	NEW
HADDAT ULAYS	J.SUMARAH REP.	HORN x1	10	NEW
BAYT AL ASHWAL	J.SUMARAH REP.	HORN x1	10	NEW
AL MISOAH	J.SUMARAH REP.	HORN x1	10	NEW
AL MAQALIH	J.SUMARAH REP.	HORN x1	10	NEW

Antenna Type And Height (TAIZZ) -- 5

Base & Repeater Station

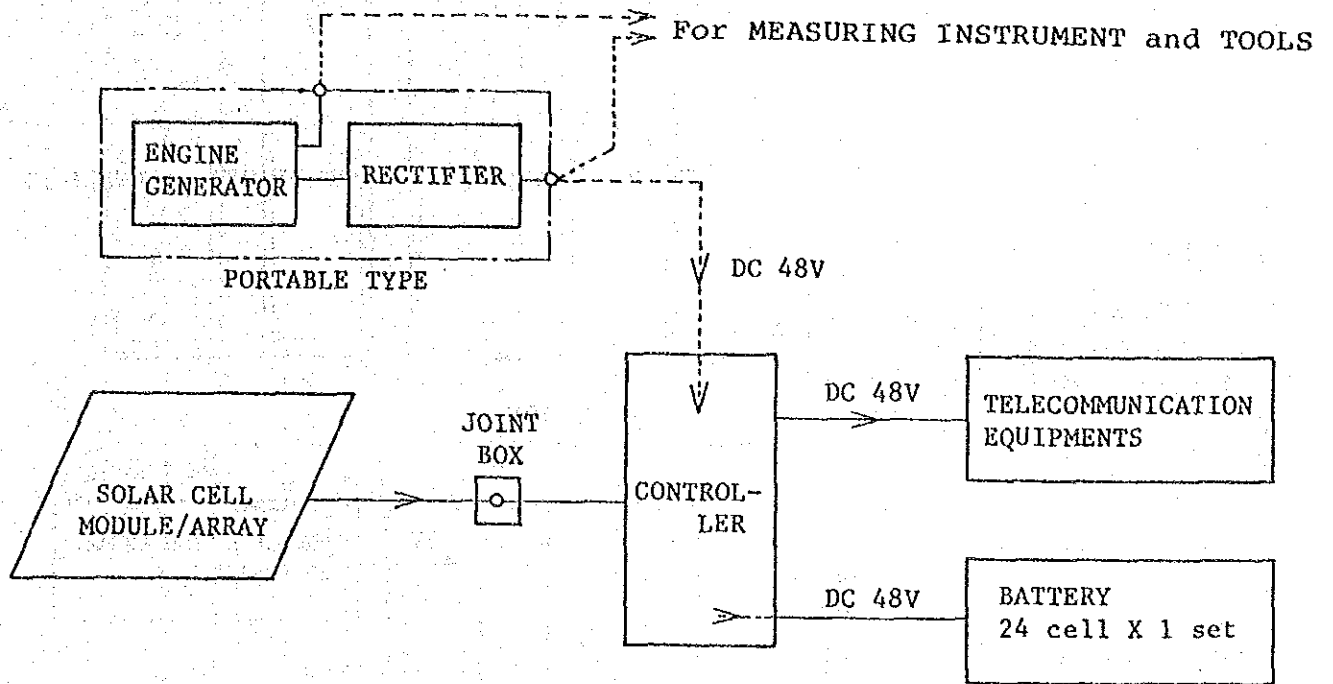
Site Name	Direction	Antenna Type	Antenna Height(M)	Availability of Tower
TAIZZ BS.	REP. S.S	OMNI x1	20	EXISTING
ARUS (O/H) REP.	TAIZZ BS.	HORN x1	10	EXISTING
	REP. S.S	OMNI x1	15	
H.OMAIMAH REP.	J.ARUS O/H REP.	1.2mD GPx1	10	NEW
	S.S	OMNI x1	15	
J.HABASHI REP.	J.ARUS O/H REP.	HORN x1	10	NEW
	REP. S.S	OMNI x1	43	
ARID REP.	J.HABASHI REP.	HORN x1	15	NEW
	REP. S.S	OMNI x1	15	
J.SABARAN REP.	ARID REP.	HORN x1	10	NEW
	S.S	OMNI x1	35	
H.AN HANAN REP.	J.HABASHI REP.	HORN x1	10	NEW
	REP.	OMNI x1	15	
J.AN NAR REP.	H.AN HANAN REP.	HORN x1	10	NEW
	REP. S.S	OMNI x1	15	
J.AL UMARI REP.	J.AN NAR REP.	1.2mD GPx1	10	NEW
	S.S	OMNI x1	15	

Subscriber Station

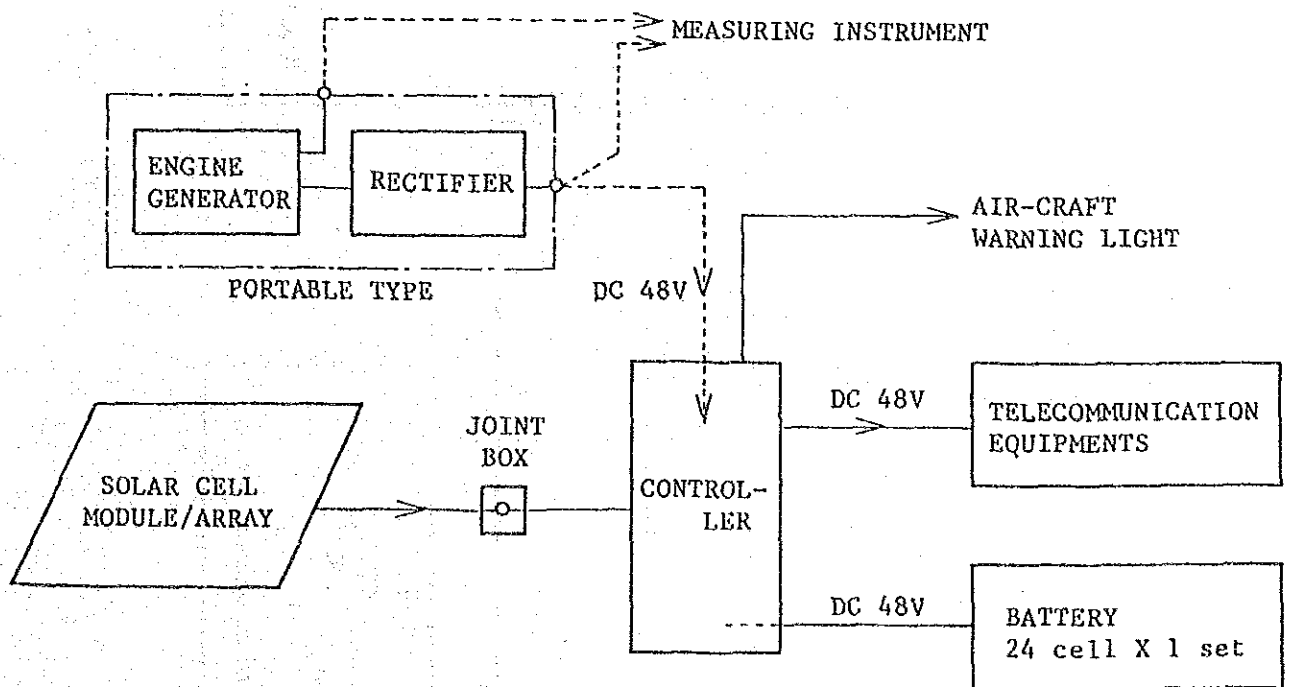
Site Name	Direction	Antenna Type	Antenna Height(M)	Availability of Tower
HADNAN	ARUS (O/H) REP.	HORN x1	12	NEW
AL HUSAYN	ARUS (O/H) REP.	HORN x1	10	NEW
AL AMAKIR	ARUS (O/H) REP.	HORN x1	10	NEW
AL AMAQI	ARUS (O/H) REP.	HORN x1	10	NEW
QARAMAH	ARUS (O/H) REP.	HORN x1	10	NEW
AS SAMKAR	ARUS (O/H) REP.	HORN x1	10	NEW
AZ ZAHRAH	ARUS (O/H) REP.	HORN x1	10	NEW
ARABAH	ARUS (O/H) REP.	HORN x1	10	NEW
BAYT UBAYDAN	H.OMAIMAH REP.	HORN x1	10	NEW
QARYAT JARANI	H.OMAIMAH REP.	HORN x1	10	NEW
YUFRUS	ARID REP.	HORN x1	10	NEW
AL MUDAYHIS	ARID REP.	HORN x1	10	NEW
ASH SHARAF	J.SABARAN REP.	HORN x1	10	NEW
HAYFAN	J.SABARAN REP.	HORN x1	10	NEW
SHAWHAT	J.SABARAN REP.	HORN x1	10	NEW
J.WADI BISYAN	J.AN NAR REP.	HORN x1	10	NEW
YAKHTUL	J.AN NAR REP.	1.2mD GPx1	10	NEW
ATH THAWBANI	J.AN NAR REP.	HORN x1	10	NEW
DHUBAB	J.AL UMARI REP.	HORN x1	10	NEW
BAB AL MANDAB	J.AL UMARI REP.	2.4mD GPx1	10	NEW

Drawing 5

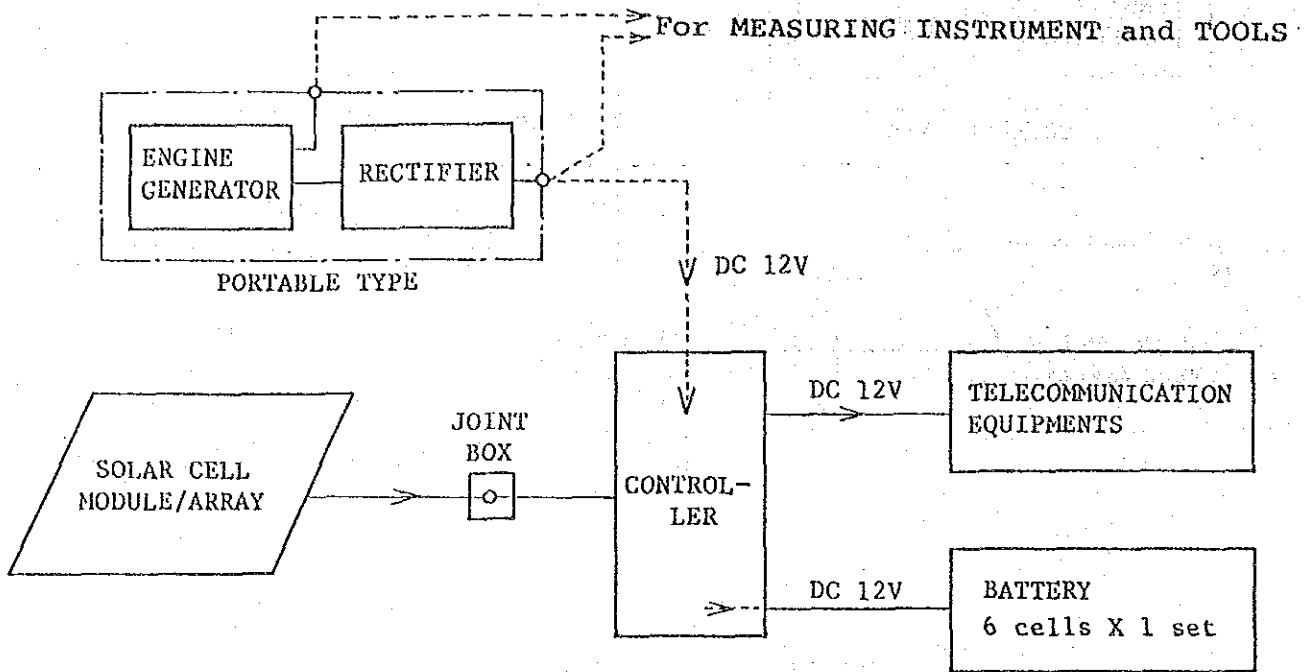
POWER SUPPLY SCHEMATIC DIAGRAM



REPEATER STATION (1)



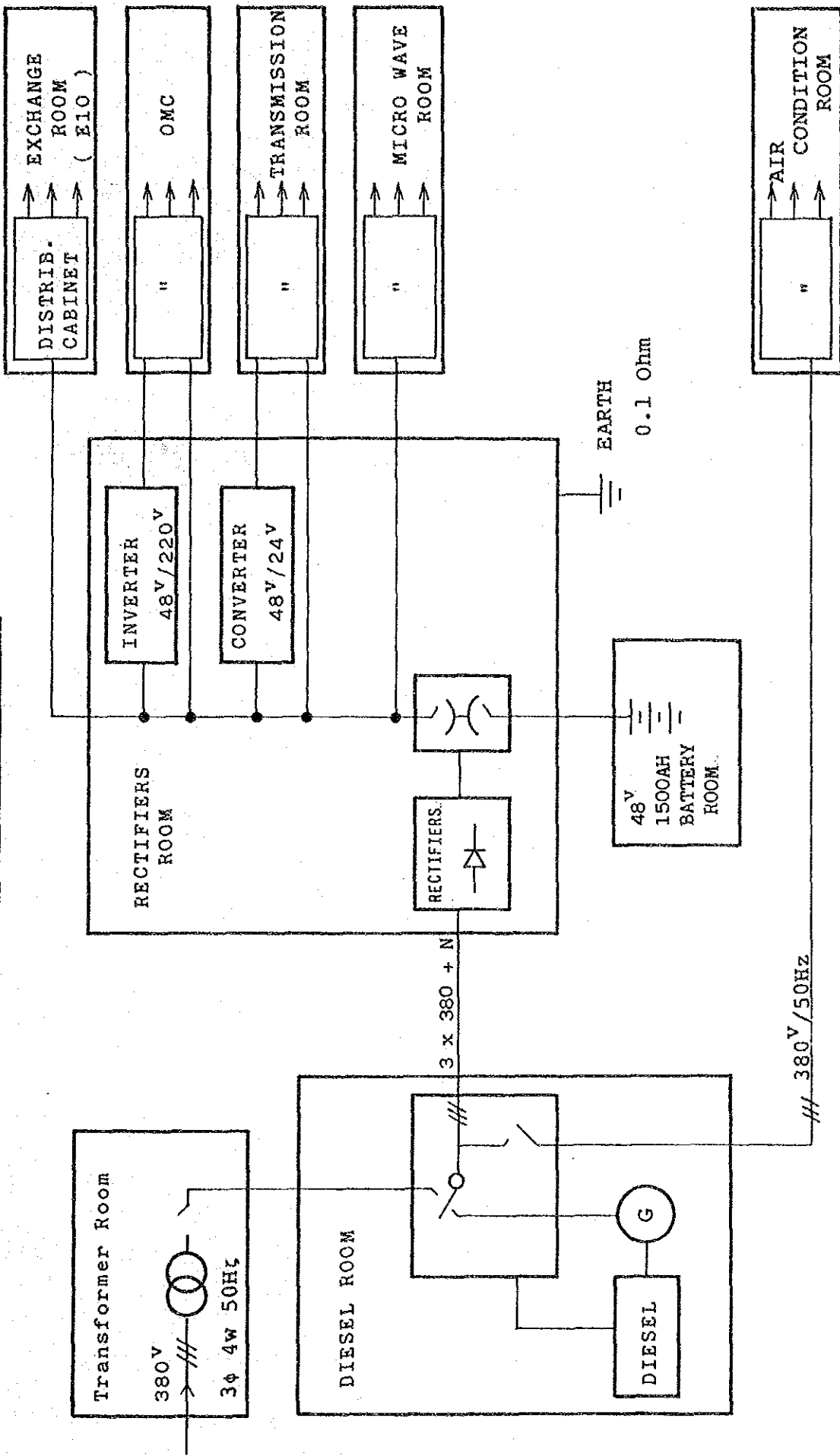
REPEATER STATION (2)



SUBSCRIBER STATION

HUDAYDAH

Power Supply Diagram



OMC: Operation Maintenance Control.

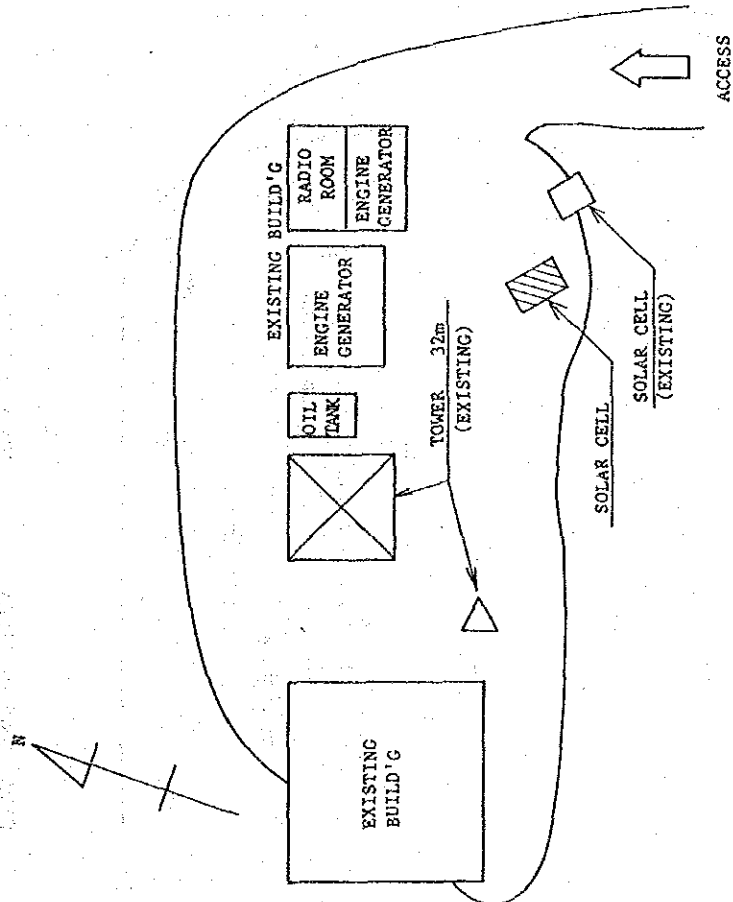
Drawing 6 SITE LAYOUT PLAN

LEGEND

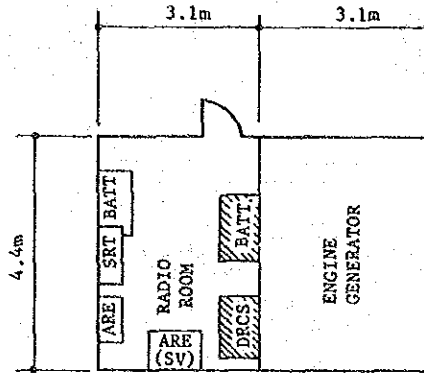


: DRCS Equipment Concerned

DAYN REP.



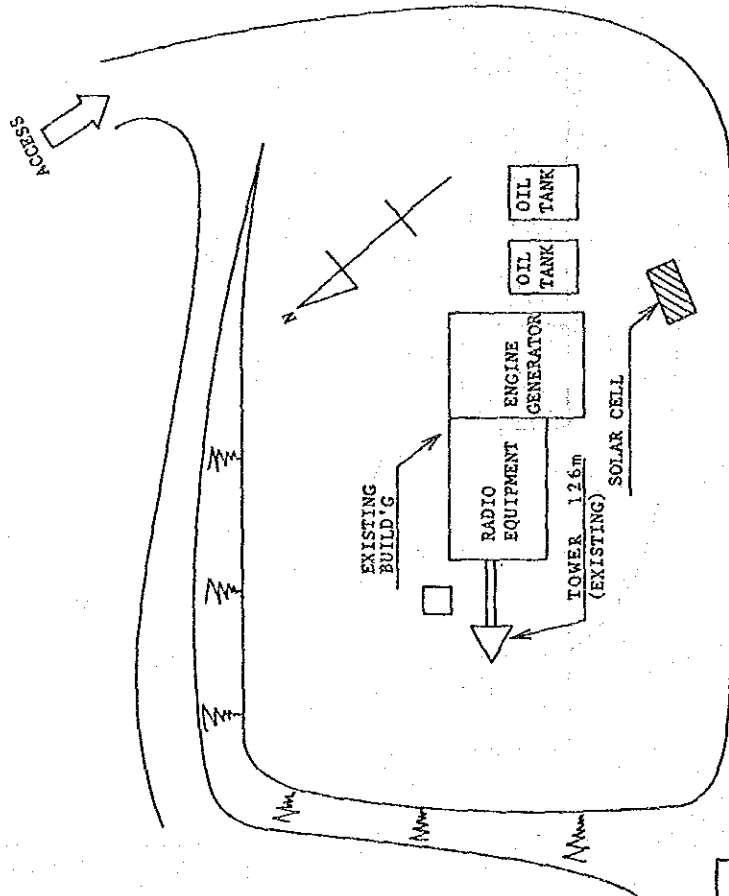
SITE GROUND PLAN SCALE : 1/300



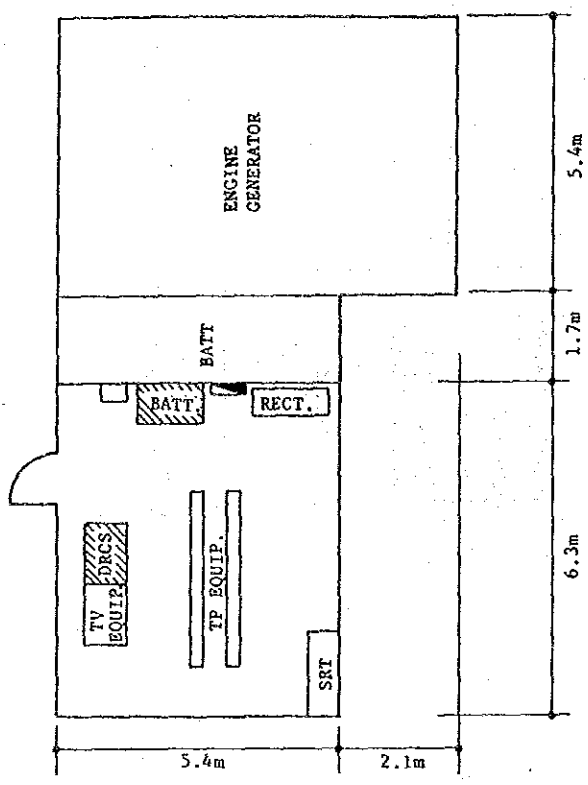
EQUIPMENT LAYOUT PLAN SCALE : 1/100

SITE	DAYN REP.
DATE	18. DEC. 1988

AYBAN REP.



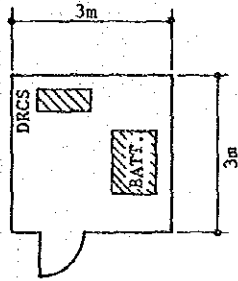
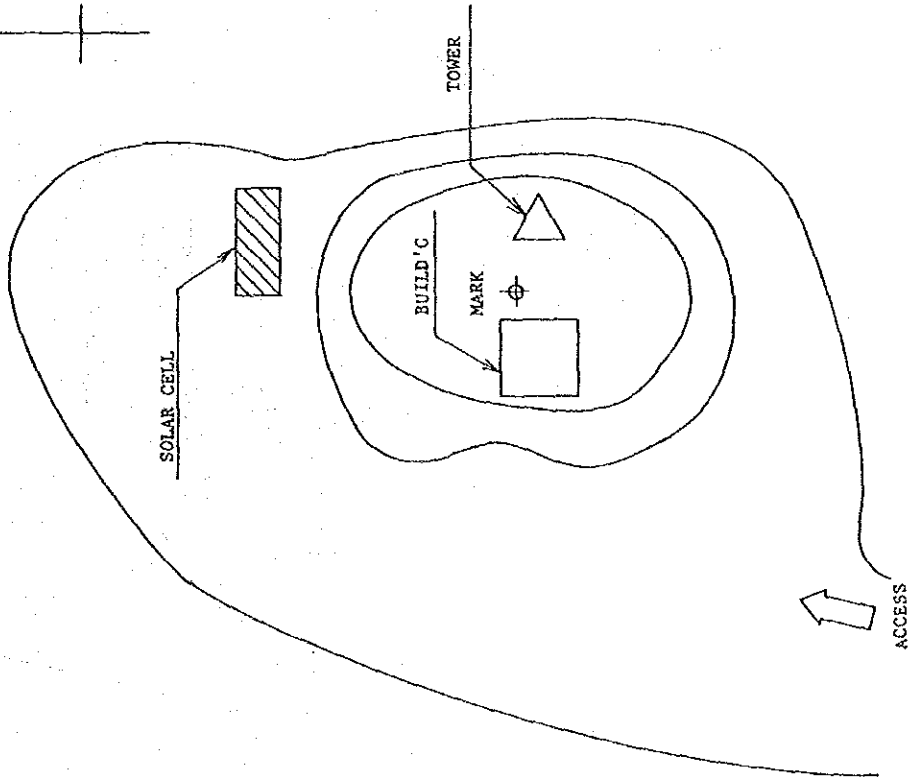
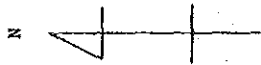
SITE GROUND PLAN SCALE : 1/300



EQUIPMENT LAYOUT PLAN SCALE : 1/100

SITE	AYBAN REP.	2
DATE	18. DEC. 1988	

J. HARWAH REP.

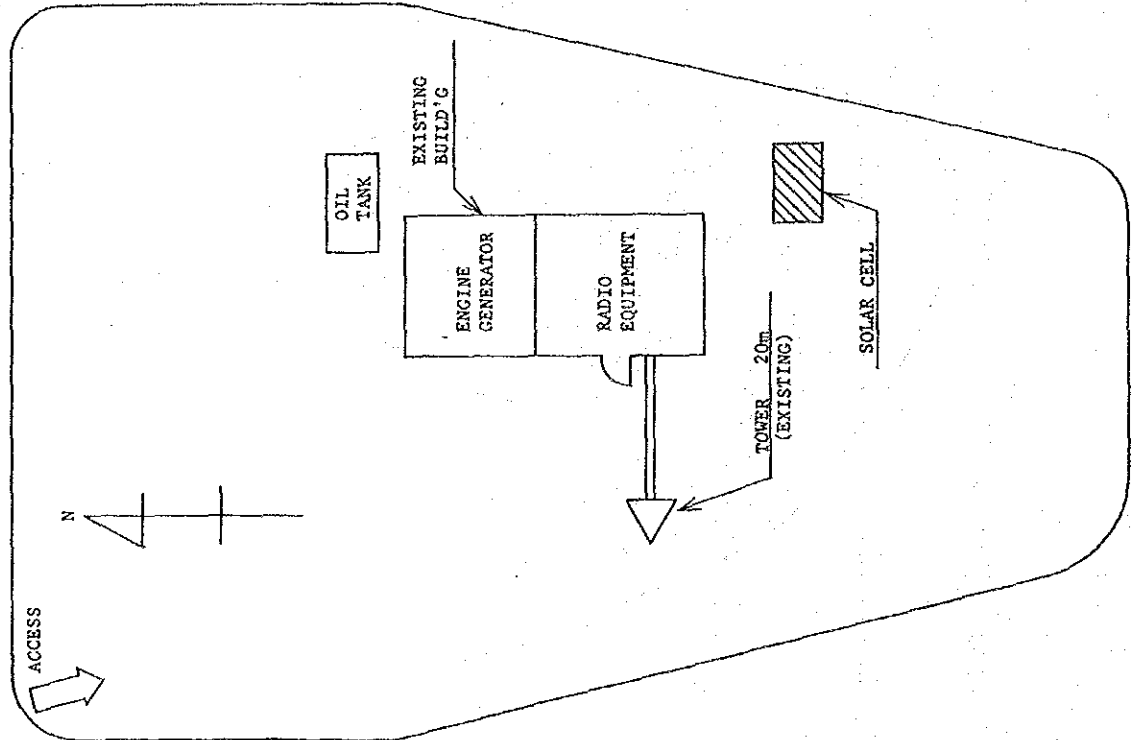


EQUIPMENT LAYOUT PLAN SCALE : 1/100

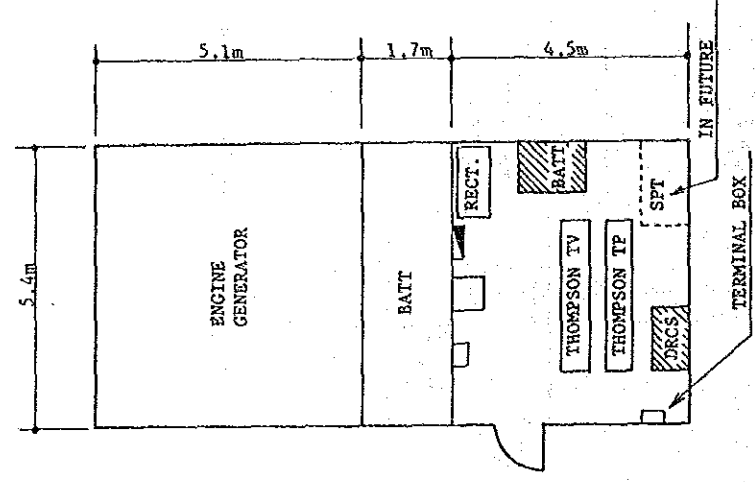
SITE GROUND PLAN SCALE : 1/200

SITE	J. HARWAH REP.	3
DATE	18. DEC. 1988	

J. YASLAH REP.



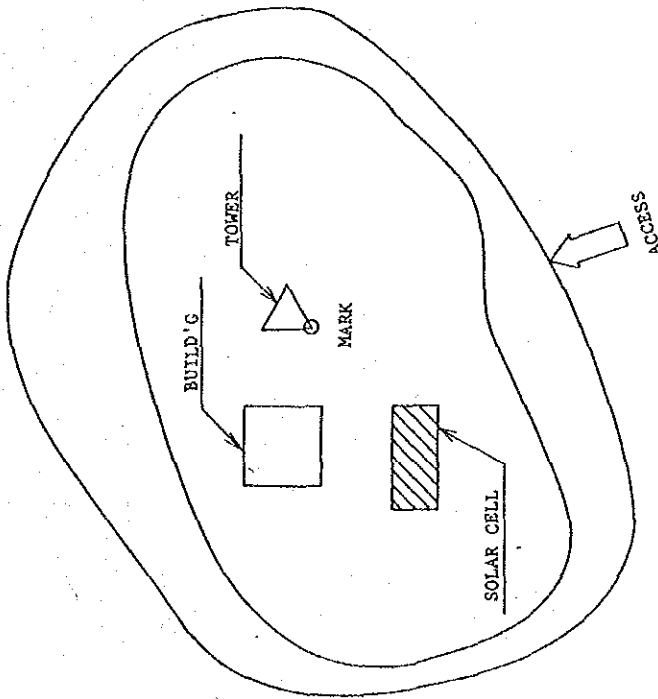
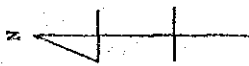
SITE GROUND PLAN SCALE : 1/200



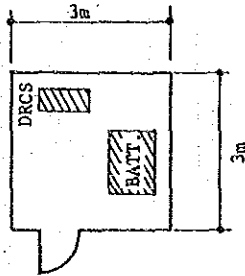
EQUIPMENT LAYOUT PLAN SCALE : 1/100

SITE	J. YASLAH REP.	4
DATE	18. DEC. 1988	

J. AL MODBAAH REP.



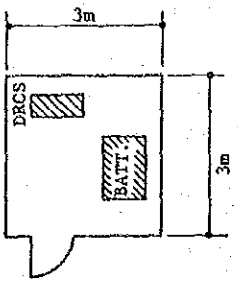
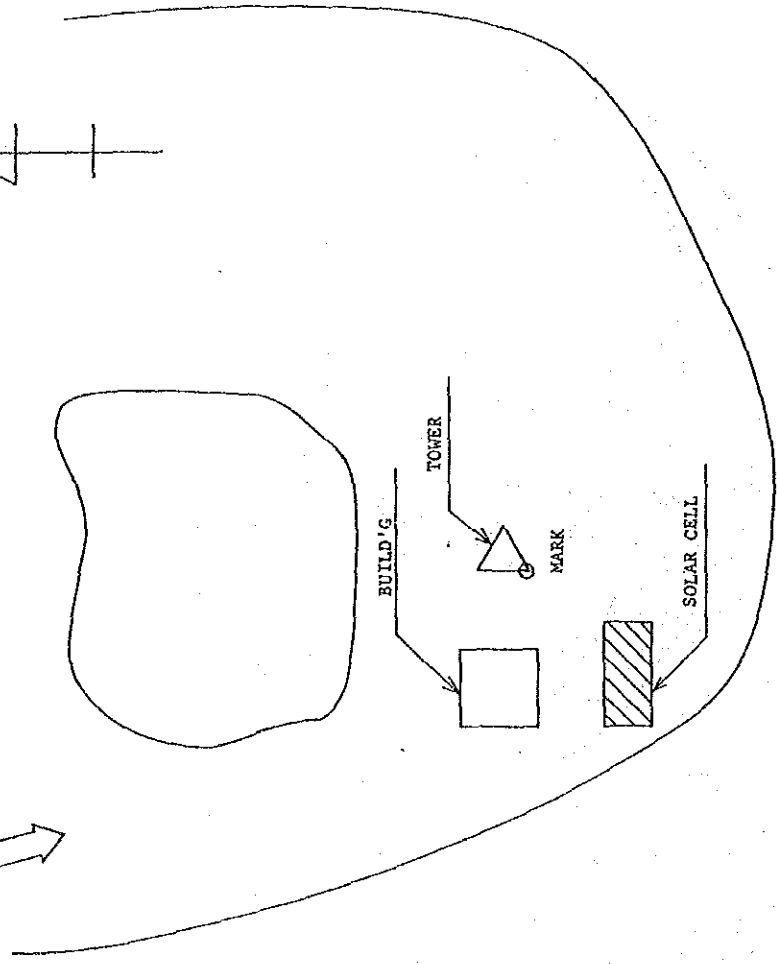
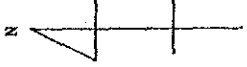
SITE GROUND PLAN SCALE : 1/200



EQUIPMENT LAYOUT PLAN SCALE : 1/100

SITE	J. AL MODBAAH REP.	5
DATE	18. DEC. 1988	

ABU ATIF REP.

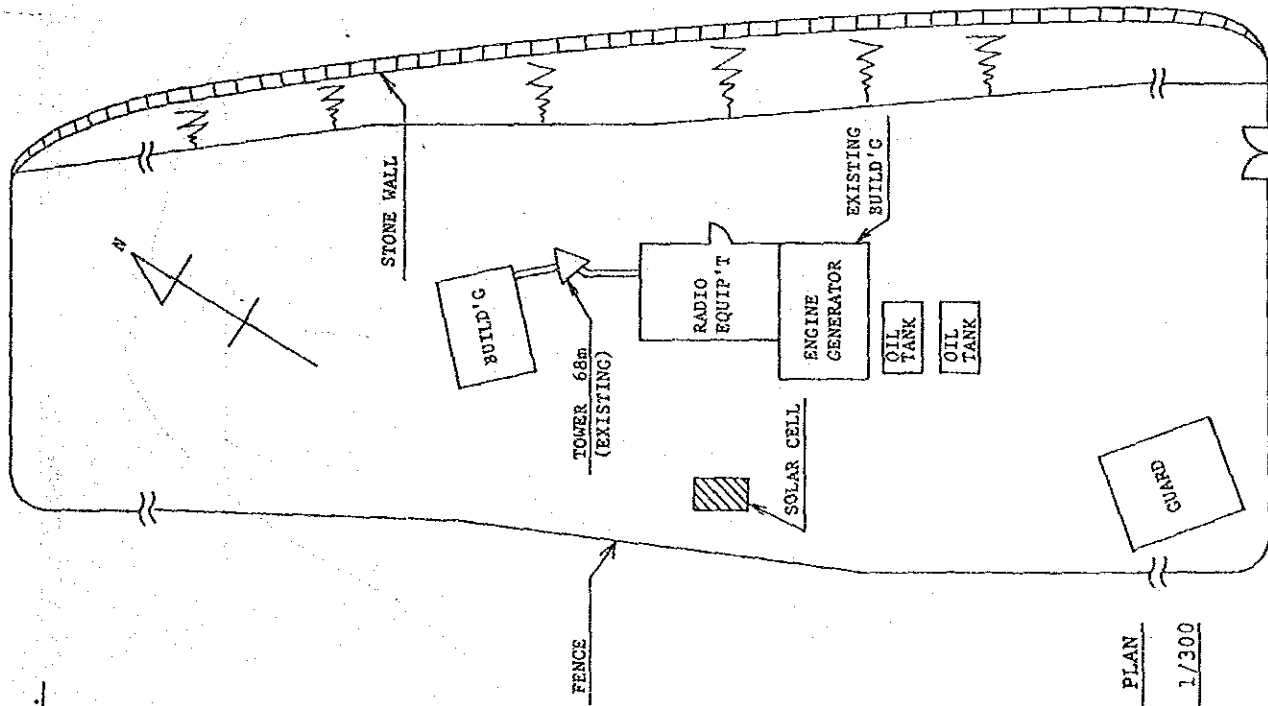


EQUIPMENT LAYOUT PLAN SCALE : 1/100

SITE GROUND PLAN SCALE : 1/200

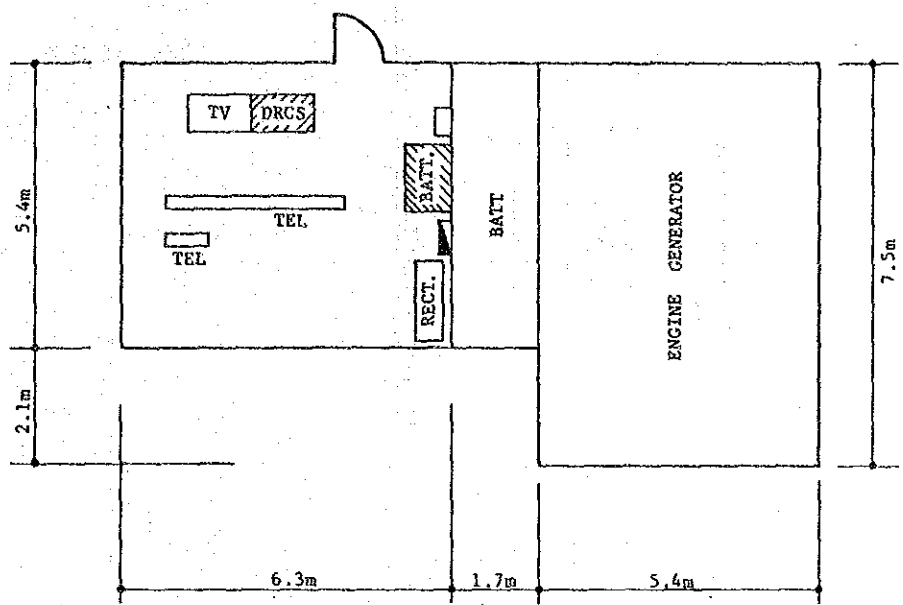
SITE	ABU ATIF REP.	6
DATE	18. DEC. 1988	

J. AL LISI REP.



SITE GROUND PLAN

SCALE: 1/300

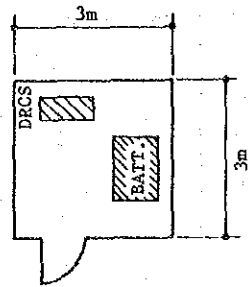
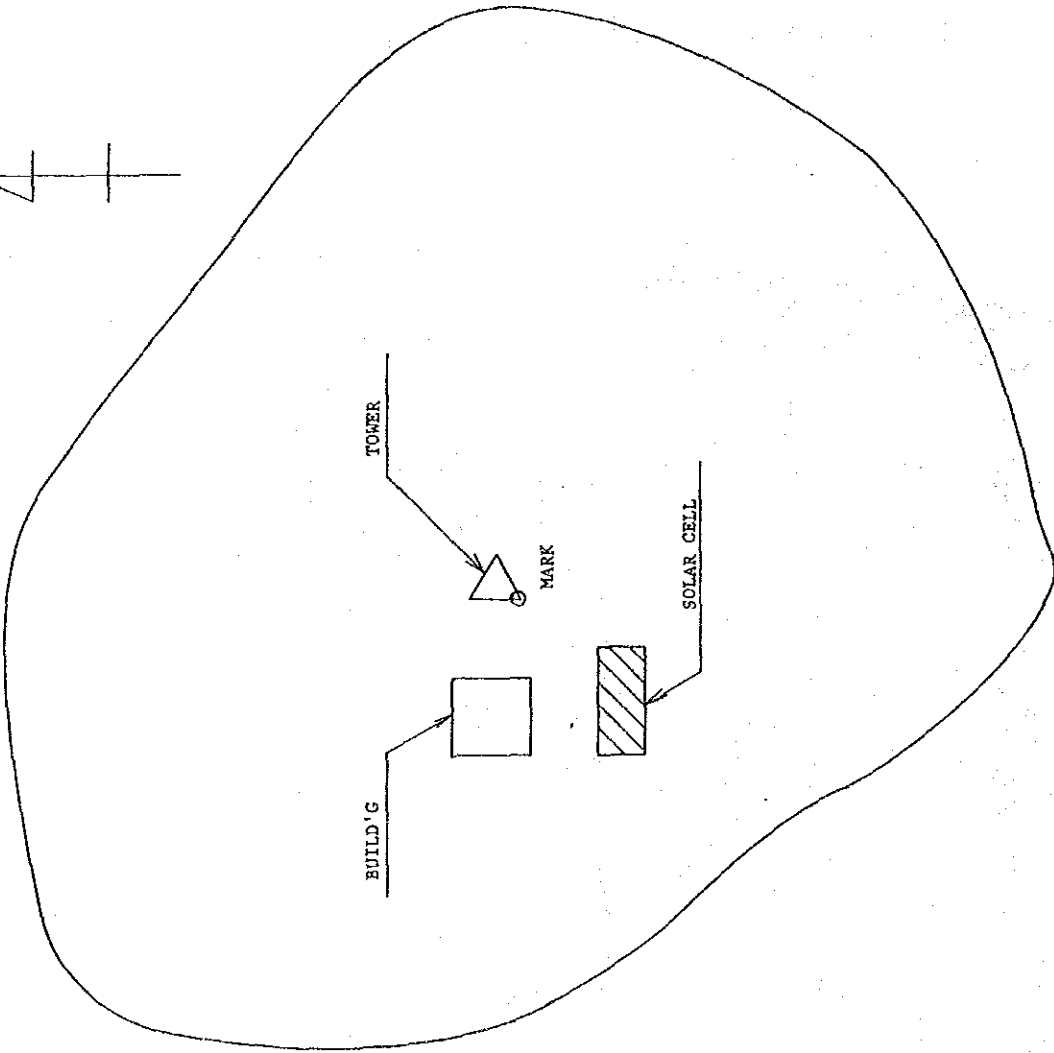
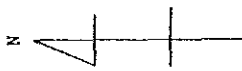


EQUIPMENT LAYOUT PLAN

SCALE: 1/100

SITE	J. AL LISI REP.	7
DATE	18. DEC. 1988	

AL. HIJRAH REP.



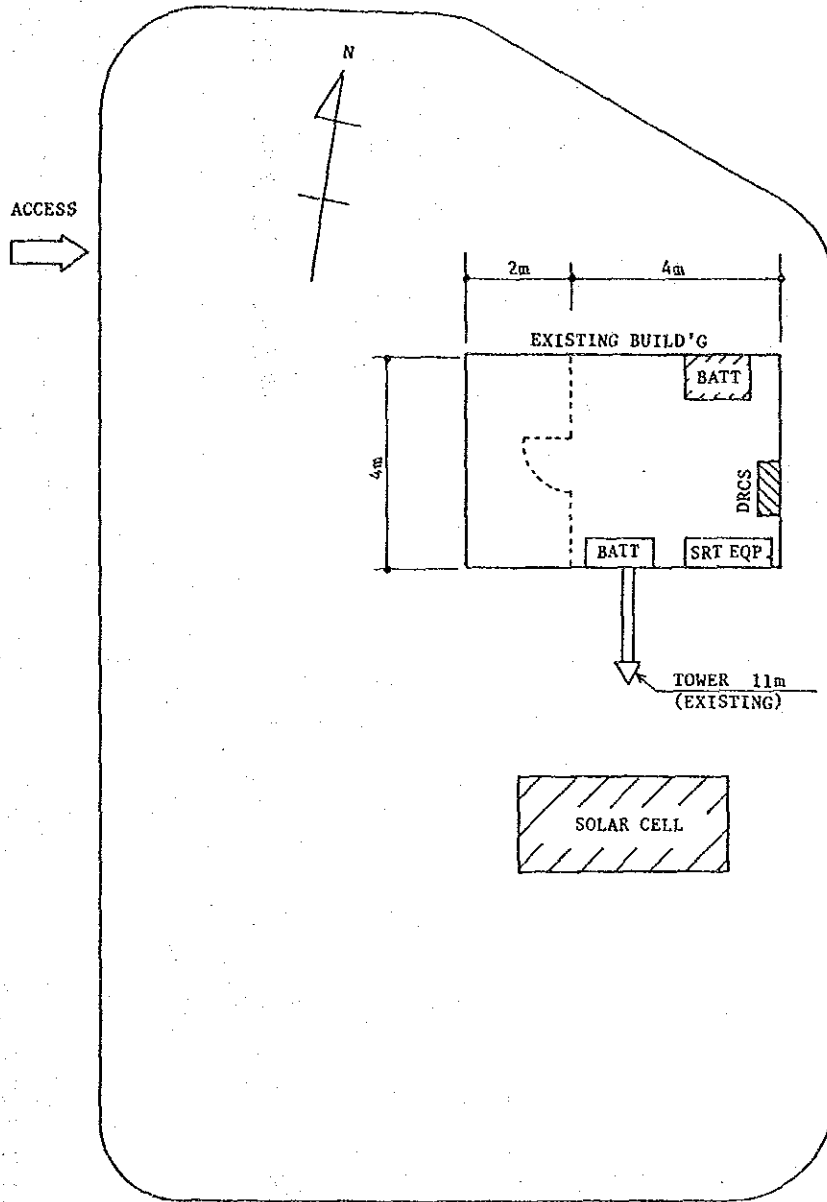
EQUIPMENT LAYOUT PLAN SCALE: 1/100

SITE GROUND PLAN SCALE : 1/200

SITE GROUND PLAN

SITE	AL. HIJRAH REP.	6
DATE	18. DEC. 1988	

J. MANARA REP.

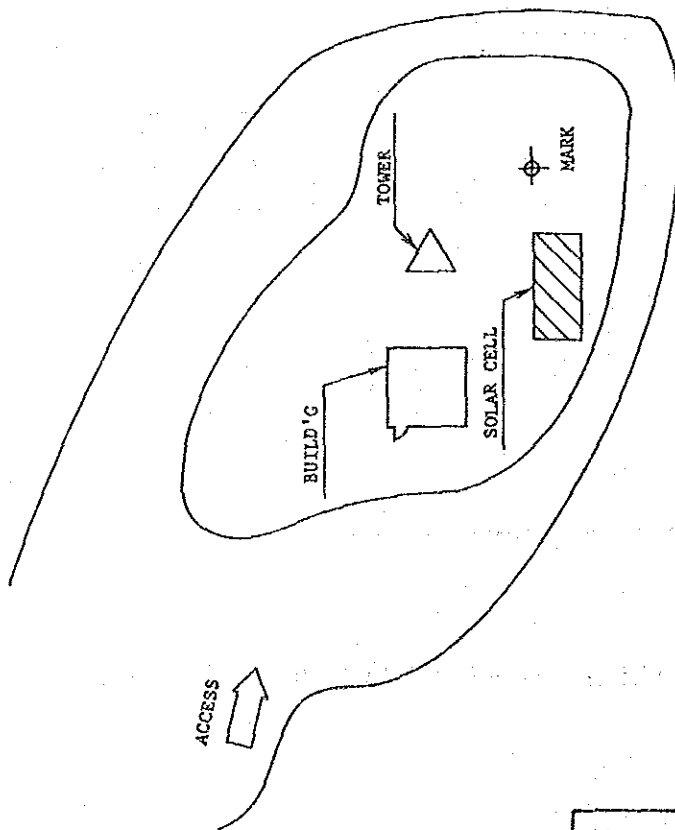
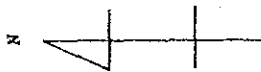


SITE GROUND AND EQUIPMENT LAYOUT PLAN.

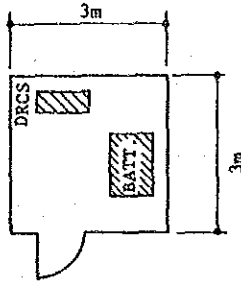
SCALE : 1/100

SITE	J. MANARA REP.	9
DATE	18. DEC. 1988	

BAYT ASH SHAML REP.

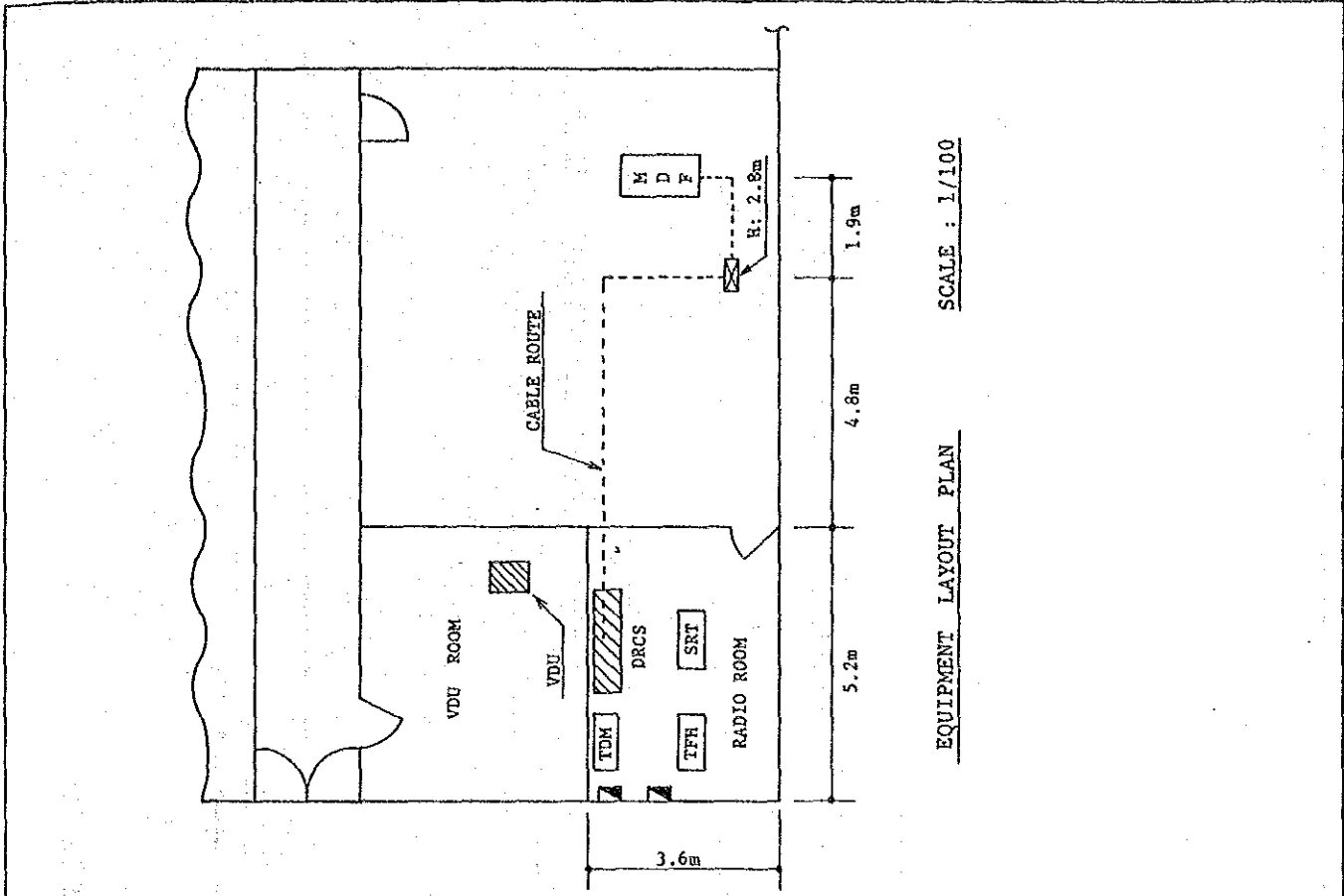


SITE GROUND PLAN SCALE : 1/200

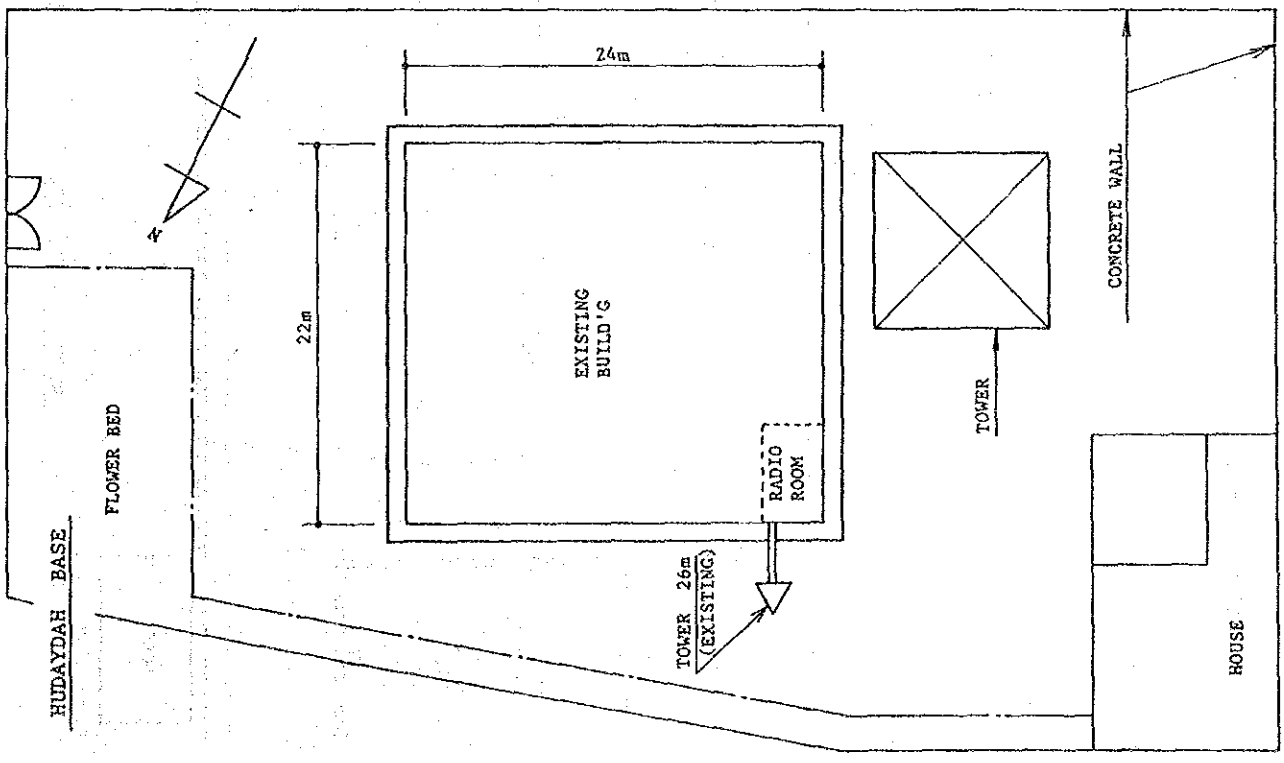


EQUIPMENT LAYOUT PLAN SCALE : 1/100

SITE	BAYT ASH SHAML REP.	10
DATE	18. DEC. 1988	



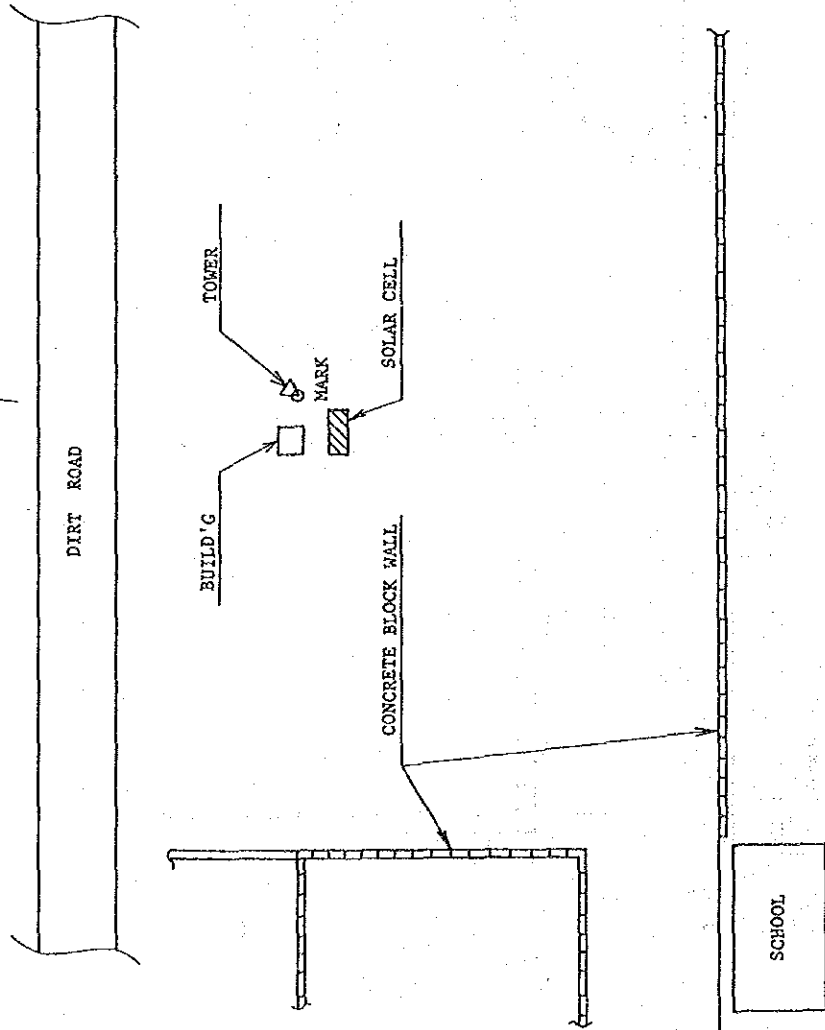
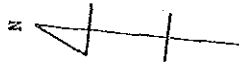
EQUIPMENT LAYOUT PLAN SCALE : 1/100



SITE GROUND PLAN SCALE : 1/300

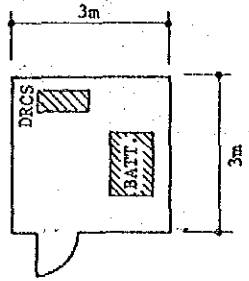
SITE	HUDAYDAH BASE	
DATE	18. DEC. 1988	

DAYR AKHRASH REP.



SCALE : 1/600

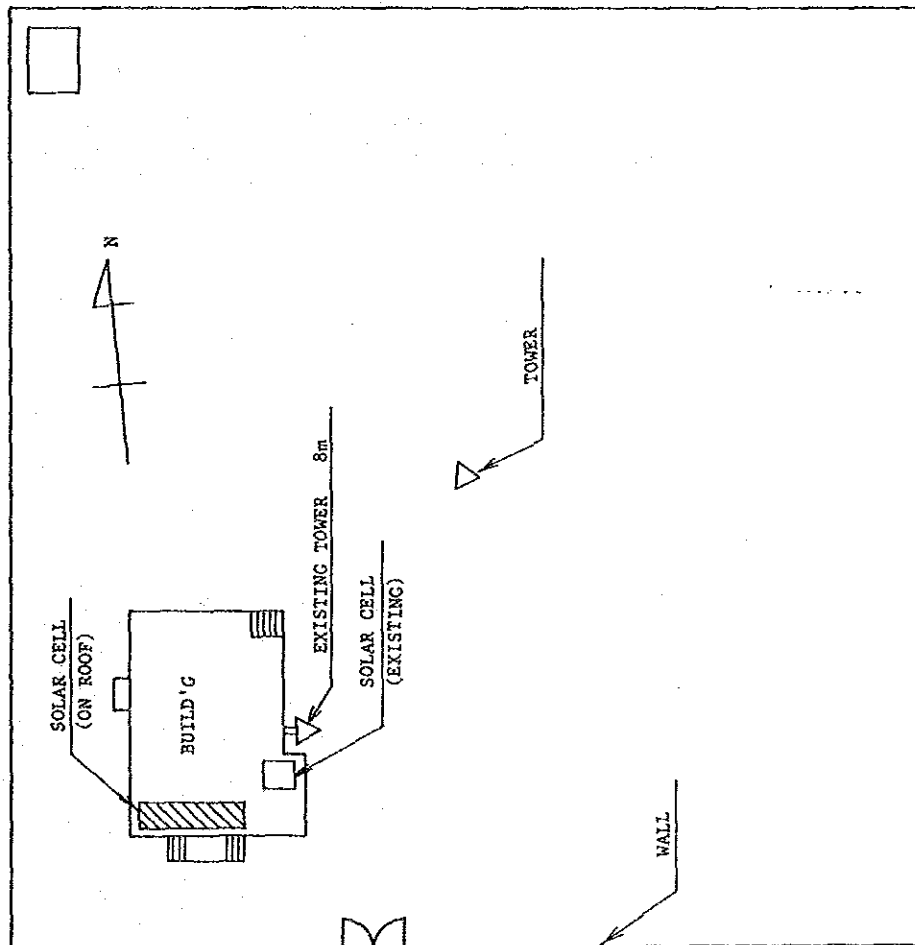
SITE GROUND PLAN



EQUIPMENT LAYOUT PLAN SCALE : 1/100

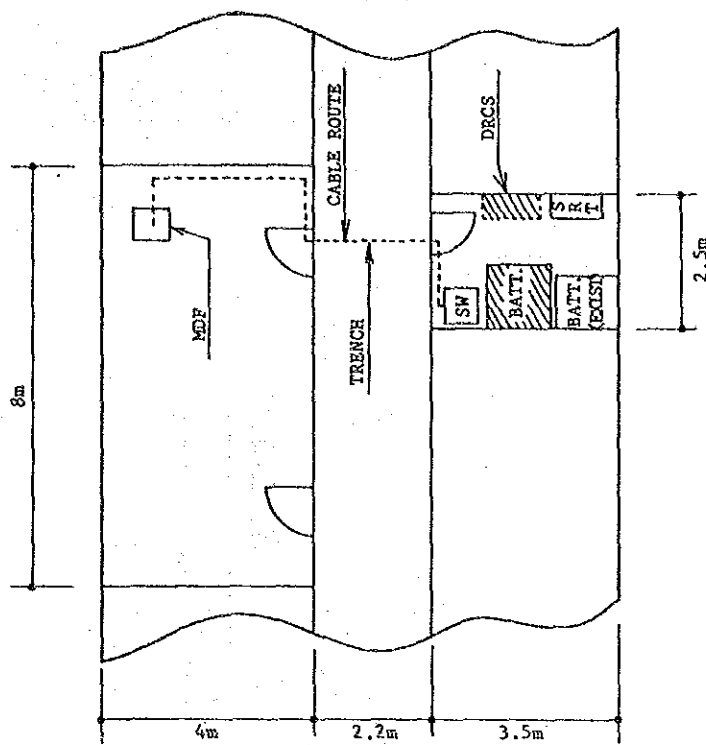
SITE	DAYR AKHRASH REP. 12
DATE	18. DEC. 1988

AZ ZAYDIYAH REP.



SITE GROUND PLAN

SCALE : 1/400

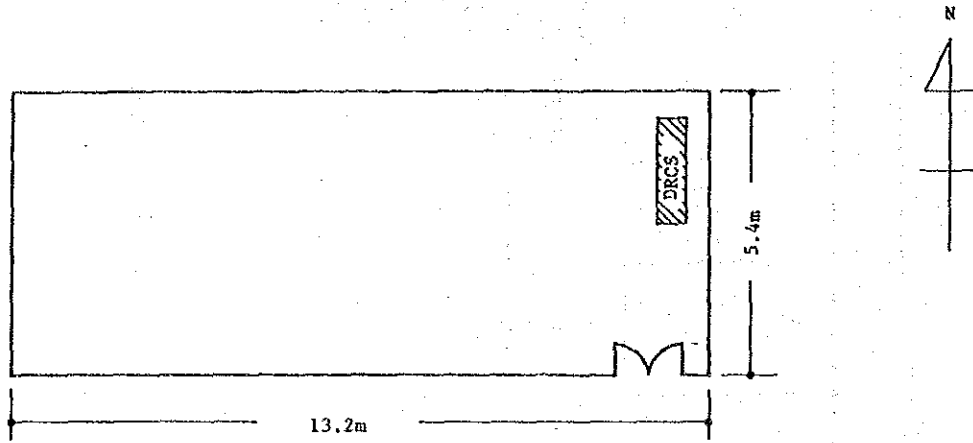


EQUIPMENT LAYOUT PLAN

SCALE : 1/100

SITE	AZ ZAYDIYAH REP.	13
DATE	18. DEC. 1988	

IBB BASE

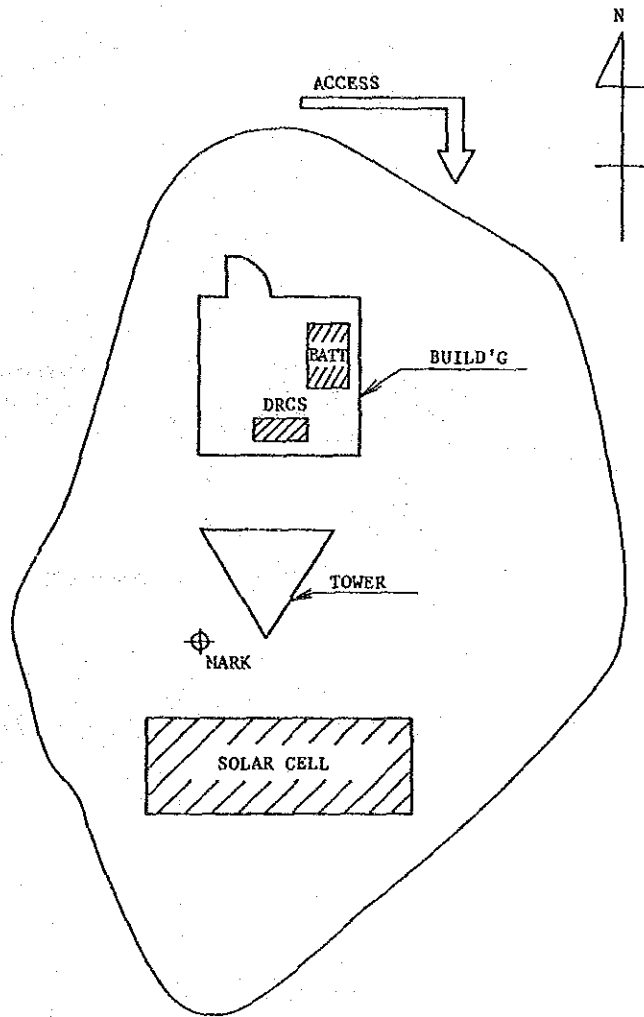


EQUIPMENT LAYOUT PLAN

SCALE : 1/100

SITE	IBB BASE	14
DATE	18. DEC. 1988	

MASHWARAH REP.

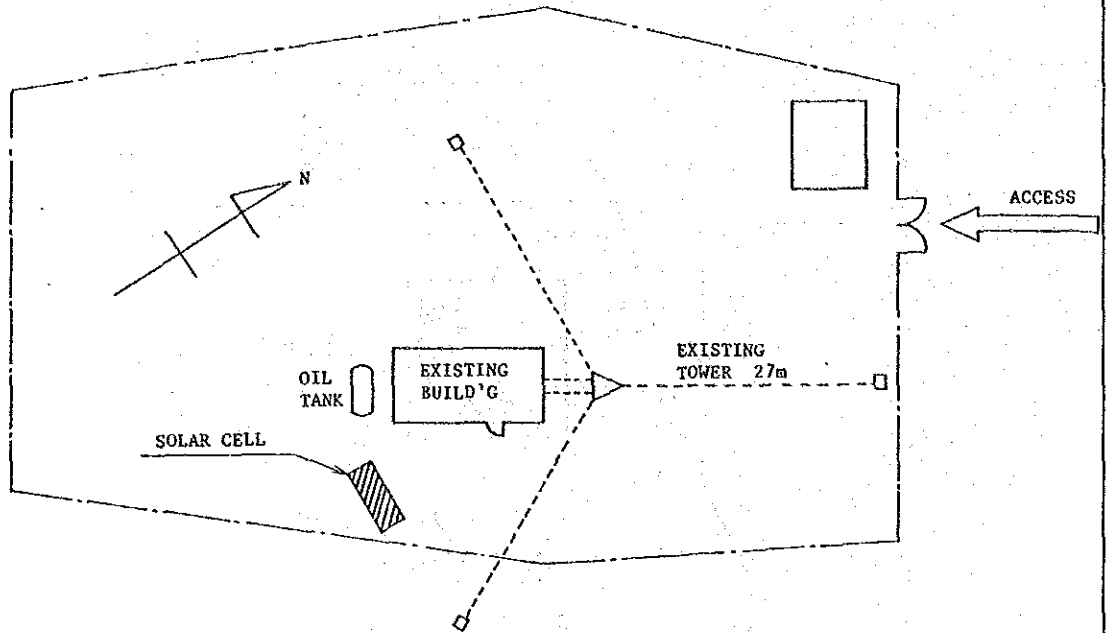


SITE GROUND PLAN AND EQUIPMENT PLAN

SCALE : 1/100

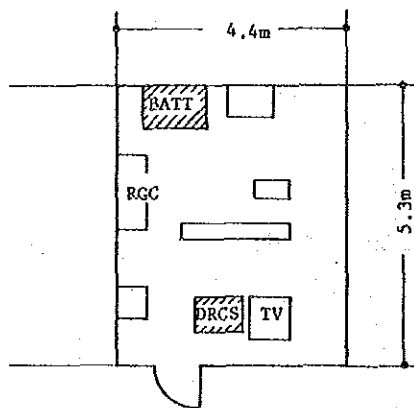
SITE	MASHWARAH REP.	15
DATE	10. DEC. 1988	

J. SUMARAH REP.



SITE GROUND PLAN

SCALE : 1/400

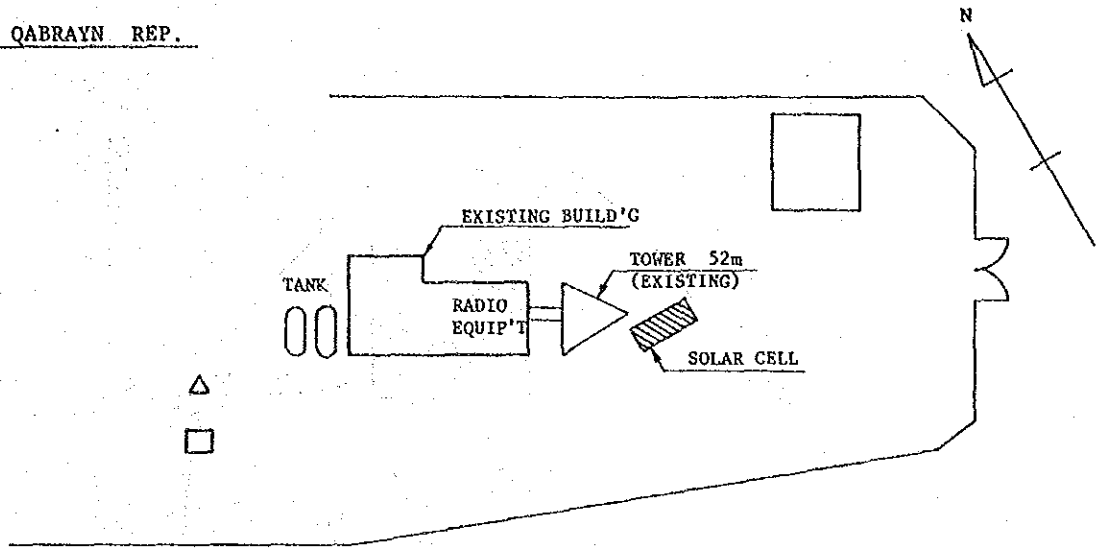


EQUIPMENT LAYOUT PLAN

SCALE 1/100

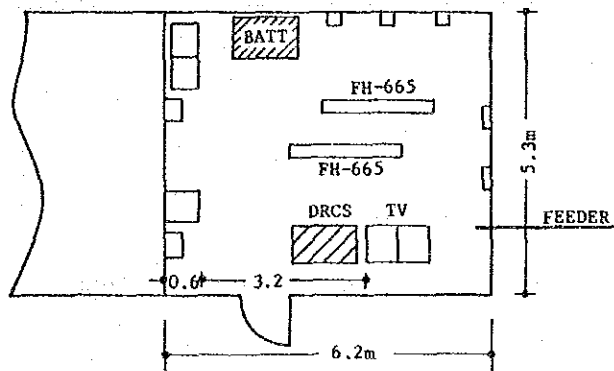
SITE	J. SUMARAH REP.	16
DATE	18. DEC. 1988	

J. AL QABRAYN REP.



SITE GROUND PLAN

SCALE : 1/400

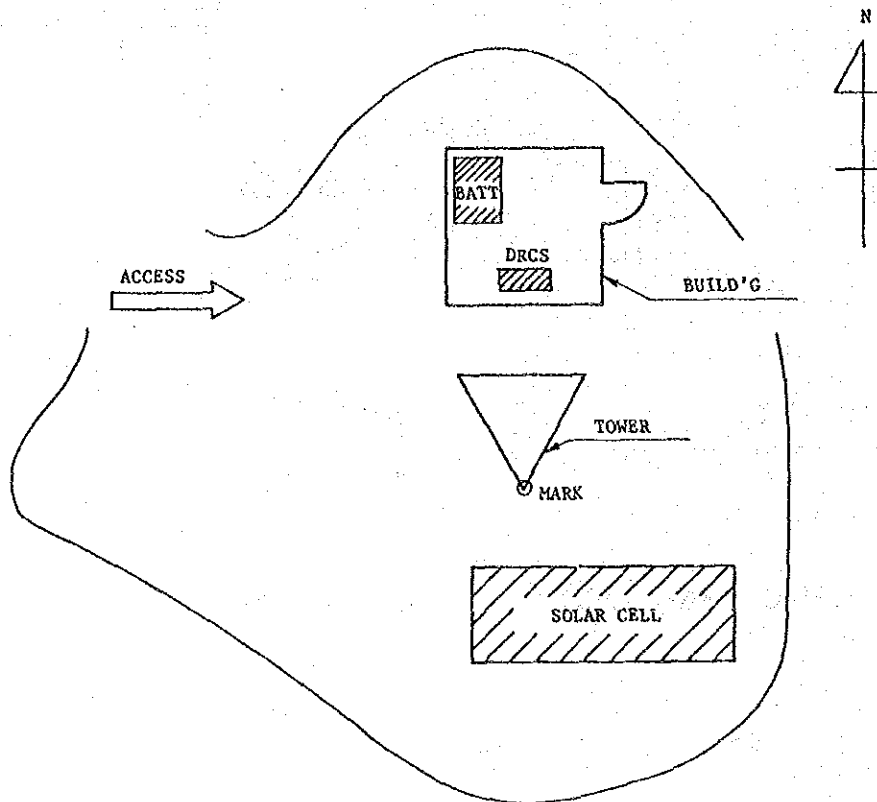


EQUIPMENT LAYOUT PLAN

SCALE : 1/100

SITE	J. AL QABRAYN REP. 17
DATE	18. DEC. 1988

J. SAID REP.

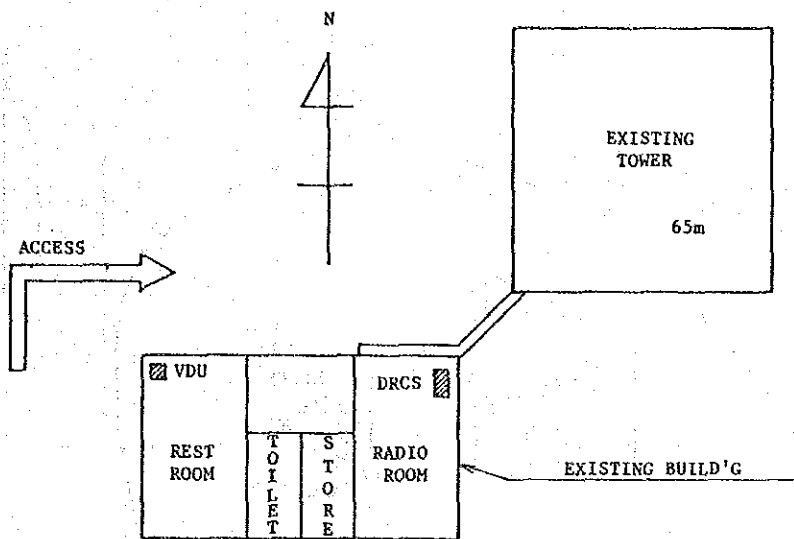


SITE GROUND PLAN AND EQUIPMENT LAYOUT PLAN

SCALE : 1/100

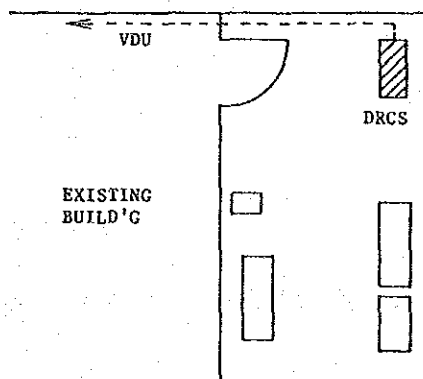
SITE	J. SAID REP.	18
DATE	18. DEC. 1988	

TAIZZ BASE



SITE GROUND PLAN

SCALE : 1/200

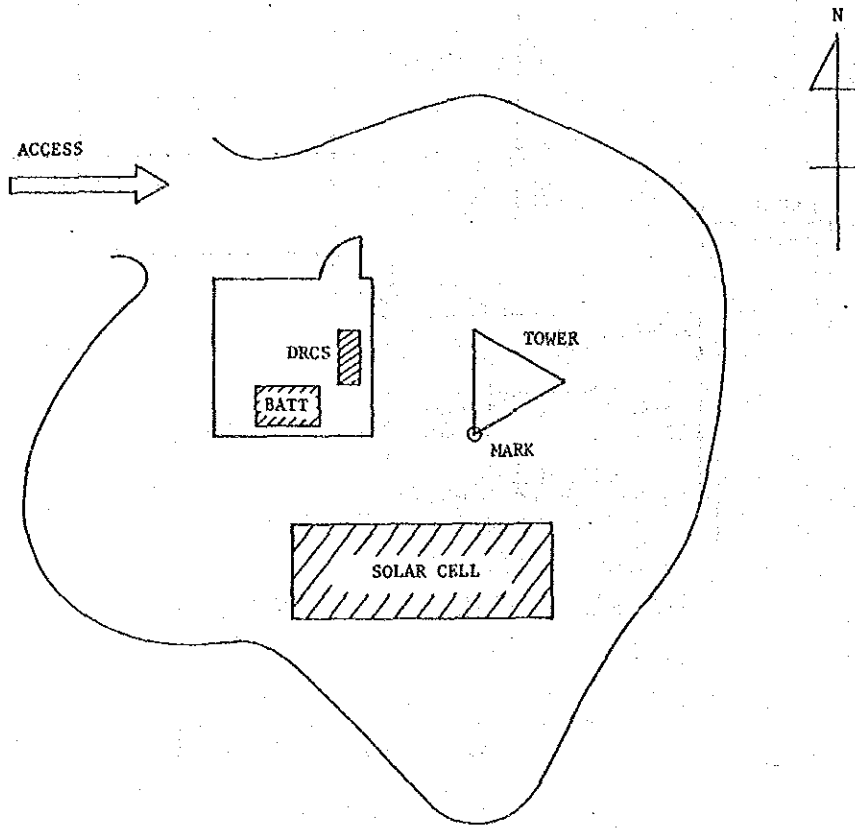


EQUIPMENT LAYOUT PLAN

SCALE : 1/100

SITE	TAIZZ BASE	19
DATE	18. DEC. 1988	

H. OMAIMAH REP.

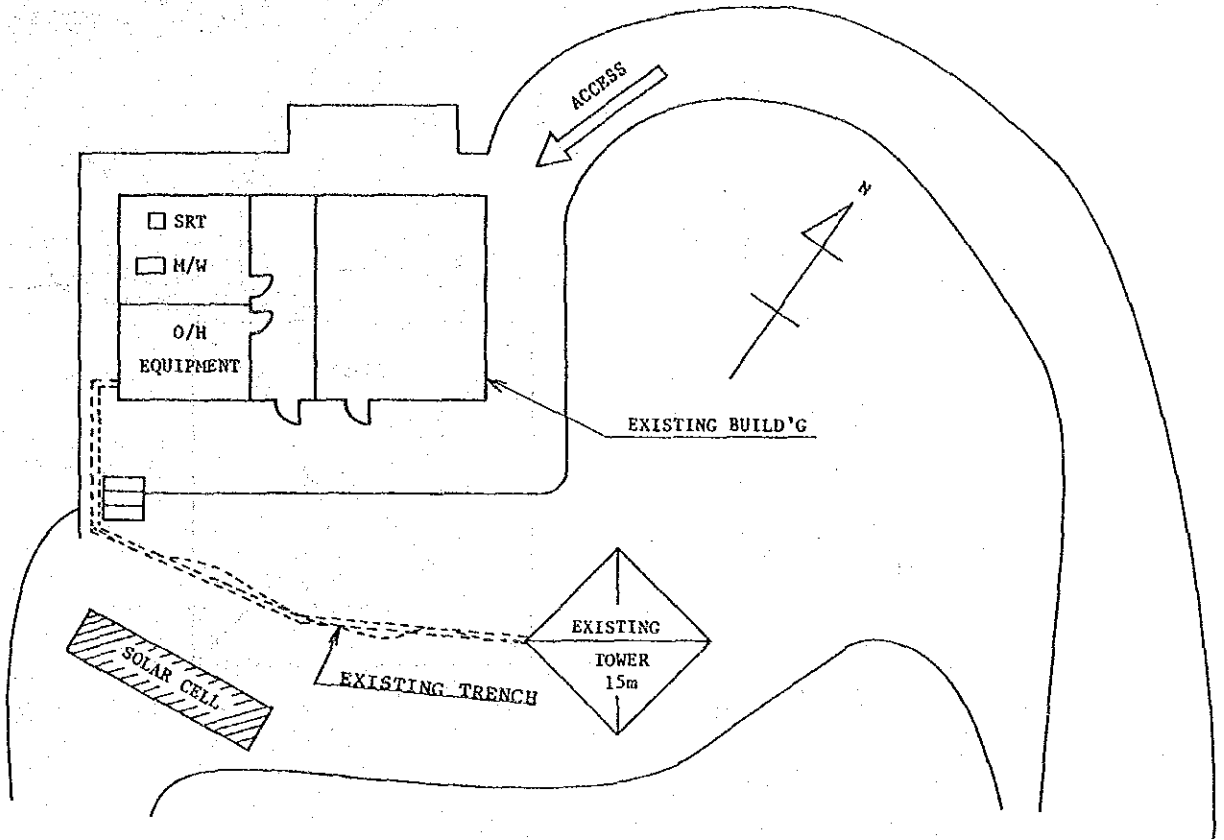


SITE GROUND PLAN AND EQUIPMENT LAYOUT PLANS

SCALE : 1/100

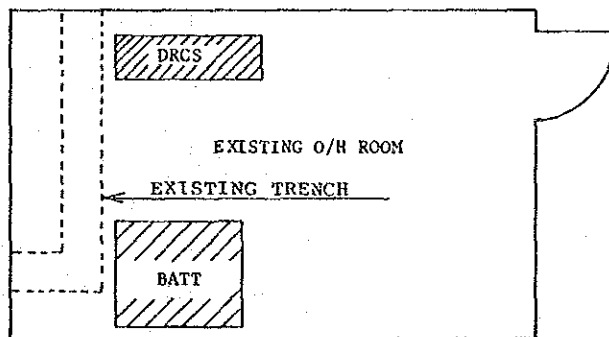
SITE	H. OMAIMAH REP. 20
DATE	18. DEC. 1988

ARUS (O/H) REP.



SITE GROUND PLAN

SCALE : 1/200

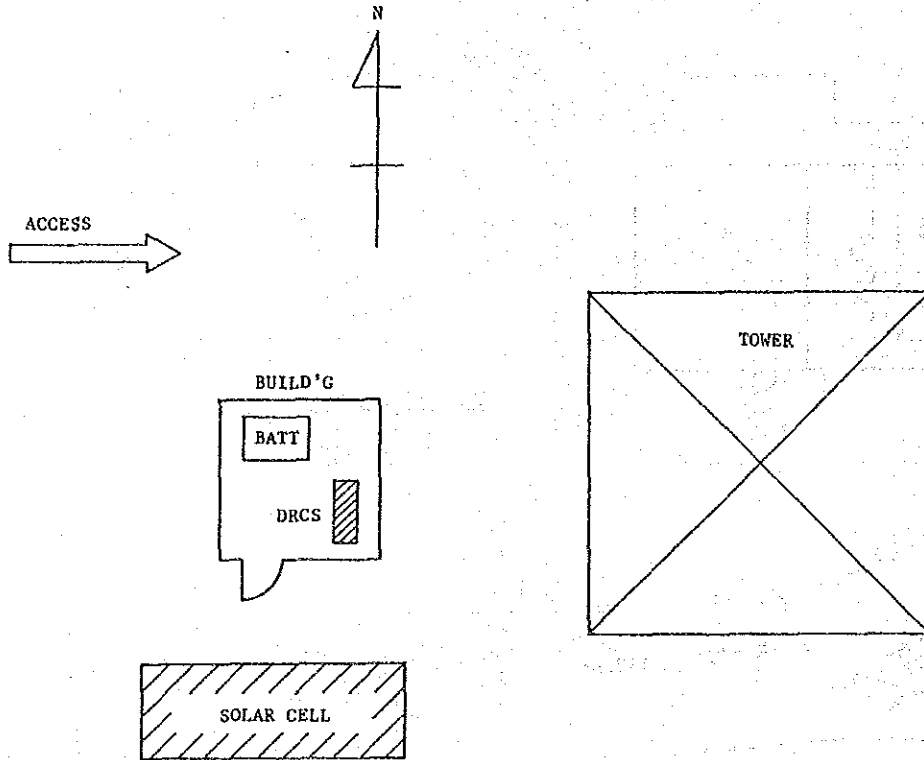


EQUIPMENT LAYOUT PLAN

SCALE : 1/50

SITE	ARUS (O/H) REP. 21
DATE	18. DEC. 1988

J. HABASHI REP.

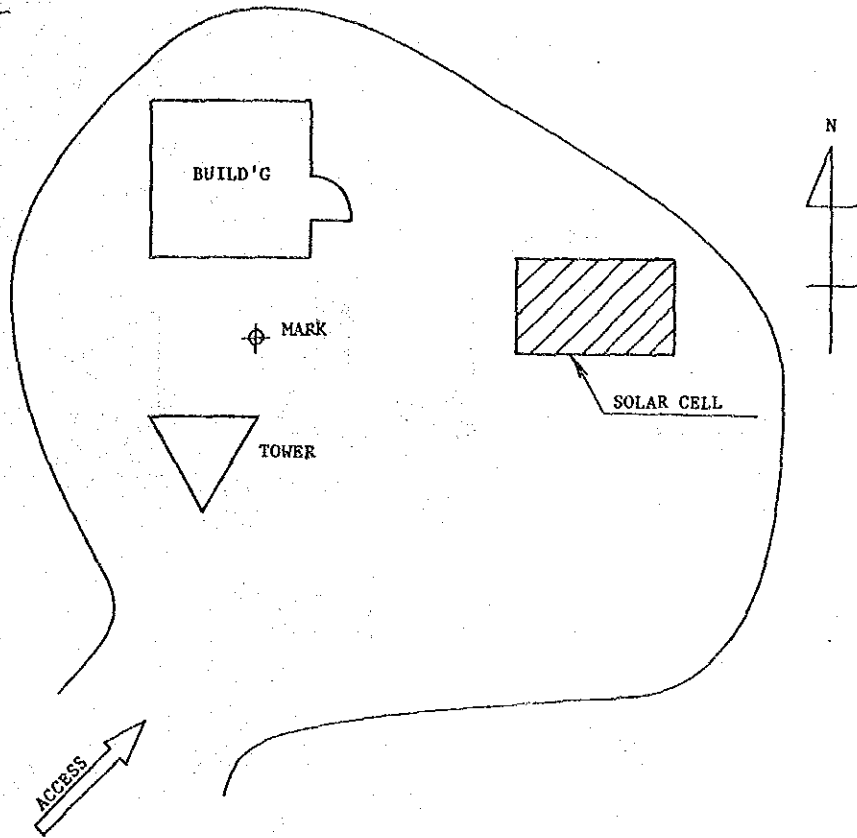


SITE GROUND PLAN AND EQUIPMENT LAYOUT PLAN

SCALE : 1/100

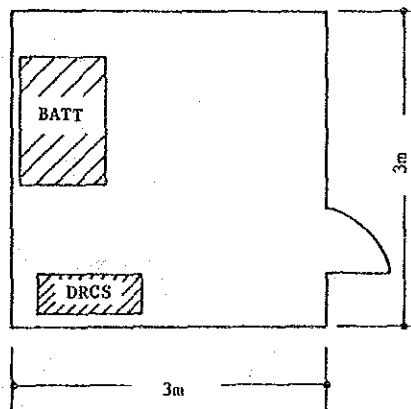
SITE	J. HABASHI REP.	22
DATE	18. DEC. 1988	

H. AN HANAN REP.



SITE GROUND PLAN

SCALE : 1/100

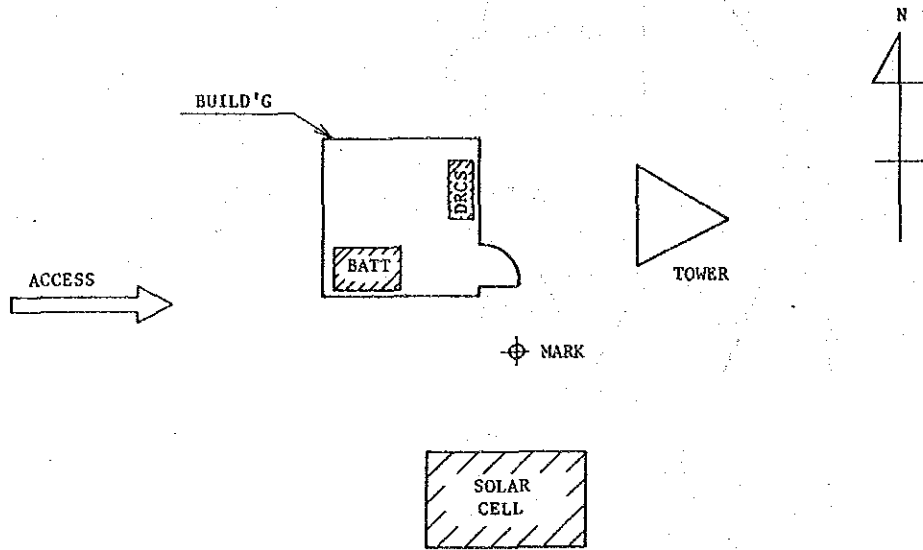


EQUIPMENT LAYOUT PLAN

SCALE : 1/50

SITE	H. AN HANAN REP. 23
DATE	18. DEC. 1988

J. AN NAR REP.

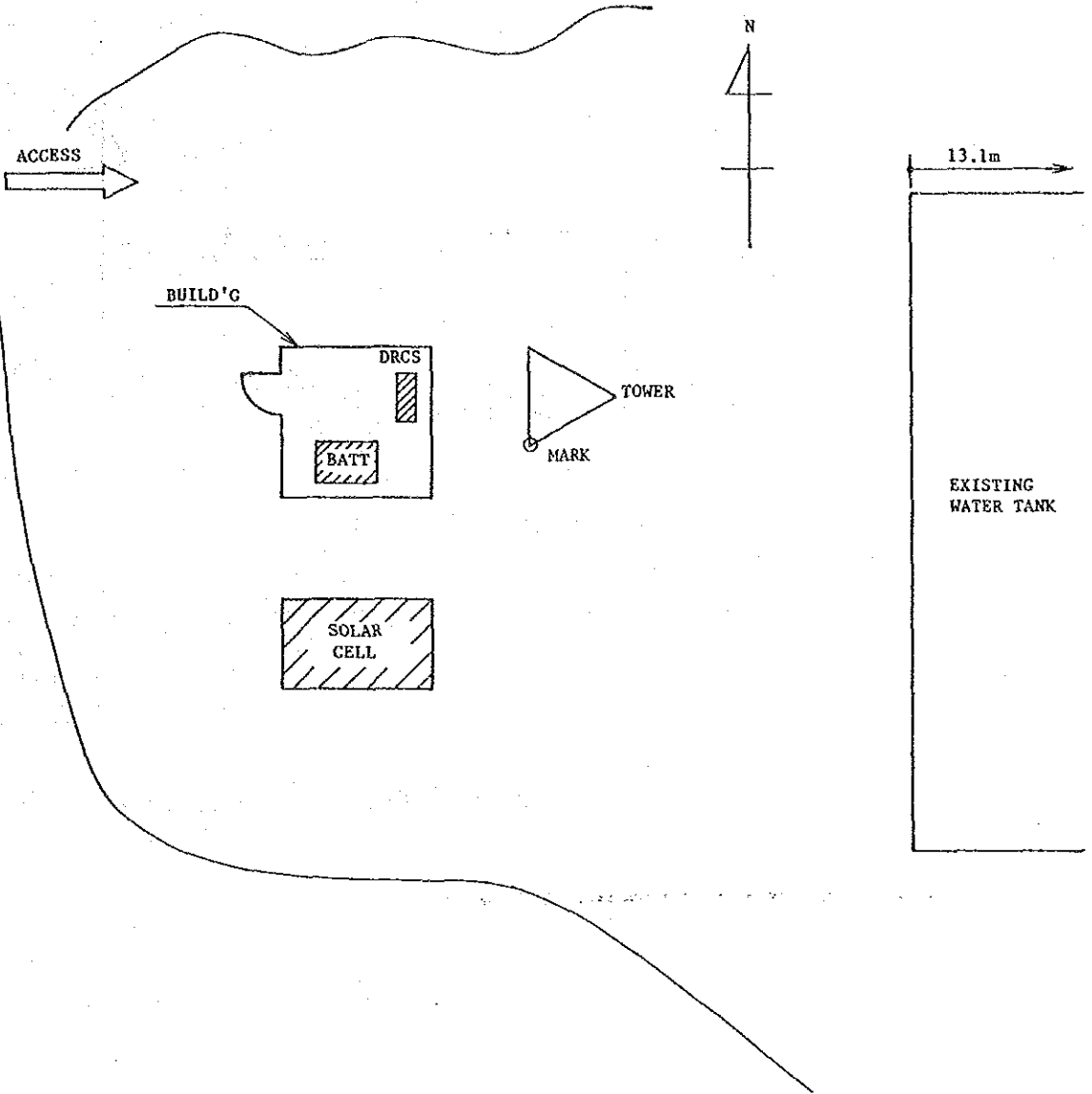


SITE GROUND PLAN AND EQUIPMENT LAYOUT PLAN

SCALE : 1/100

SITE	J. AN NAR REP.	24
DATE	18. DEC. 1988	

J. AL UMARI REP.

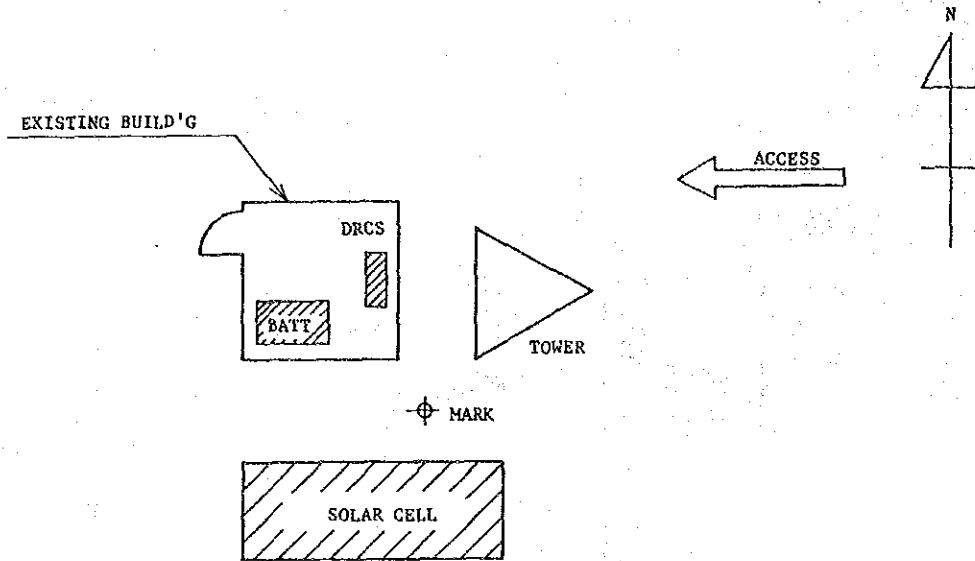


SITE GROUND PLAN AND EQUIPMENT LAYOUT PLAN

SCALE : 1/100

SITE	J. AL UMARI REP.	25
DATE	18. DEC. 1988	

ARID REP.

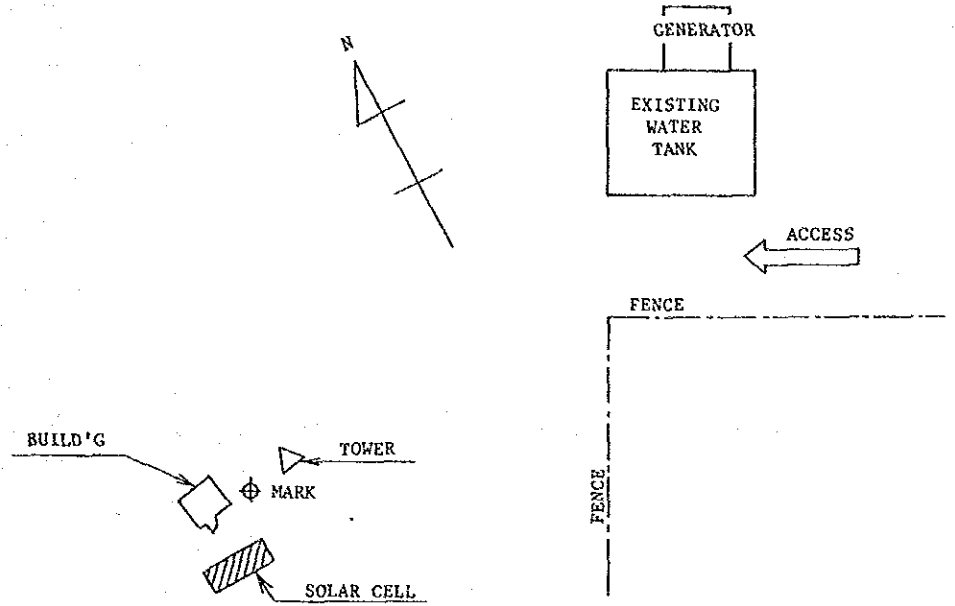


SITE GROUND PLAN AND EQUIPMENT LAYOUT PLAN

SCALE : 1/100

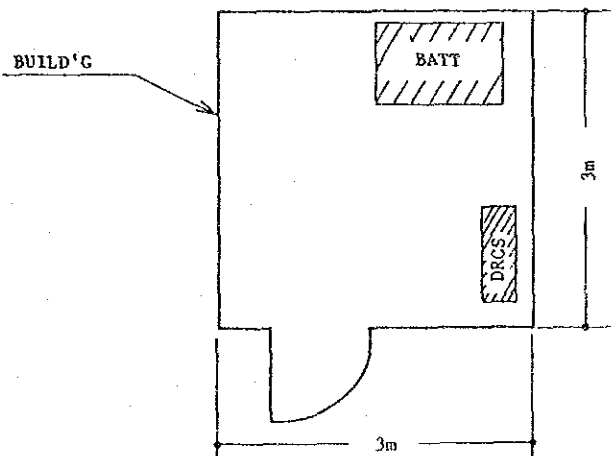
SITE	ARID REP.	26
DATE	18. DEC. 1988	

J. SABARAN REP.



SITE GROUND PLAN

SCALE : 1/400



EQUIPMENT LAYOUT PLAN

SCALE : 1/50

SITE	J. SABARAN REP. 27
DATE	18. DEC. 1988

Drawing 7 SCOPE OF PROVISION

LEGEND

- ※ : Available Existing Facilities
- : To be Provided by Y.A.R.
- 1 or 2 : To be Provided by G.O.J.
- A. r. : As required by Y.A.R.

Scope of Provision (Base, Repeater Station) — |

Site Name	Land	Access	Building	Switch	Base Unit	Repeater Unit	Drop Out Unit	D.C Power	Solar Power	Tower
SANA'A BS.	*		*	*	1			*		*
J. DAYN	*		*			1		*	1	*
J. IYAL YAZID	0	0	0			1			1	0
J. AYBAN	*		*			1		*	1	*
J. QUYFAN	*	*	*			1			1	*
MASAR	*		*			1	1	*	1	*
J. HARWAH	0	0	0			1	1		1	0
J. KANAN	0	0	0			1			1	0
DHAMAR BS.	*		*	*	1			*		*
J. YASLAH	*		*			1		*	1	*
J. AL MODB- A'AH	0	0	0			1	1		1	0
ABU ATIF	0	0	0			1	1		1	0
J. MANARA	*		*			1	1		1	*
AD DANN	0	0	0			1	1		1	0
J. AL LISI	*		*			1		*	1	*
AL HIJRAH	0	0	0			1	1		1	0
BAYT ASH SHAMI	0	0	0			1	1		1	0
HUDAYDAH BS.	*		*	*	1			*		0
DAYR KHALIL	0	0	0			1			1	0
AL KAIB	0	0	0			1			1	0
AZ ZAYDIYAH	*		*			1	1		1	0
DAYR AKHRASH	0		0			1	1		1	0
AL ABBASTI	0	0	0			1	1		1	0
TAIZZ BS.	*		*	*	1			*		*
ARUS (O/H)	*		*			1	1	*	1	*
H. OMAIMAH	0	0	0			1	1		1	0
J. HABASHI	0	0	0			1	1		1	0
ARID	0	0	0			1	1		1	0
J. SABARAN	0	0	0			1	1		1	0
H. AN HANAN	0	0	0			1			1	0
J. AN NAR	0	0	0			1			1	0
J. AL UMARI	0	0	0			1			1	0
IBB BS.	*		*	*	1			*		*
J. AL QABRAYN	*		*			1	1	*	1	*
J. SAID	0	0	0			1	1		1	0
MASHWARAH	0	0	0			1	1		1	0
J. SUMARAH	*		*			1	1	*	1	*

Scope of Provision (Subscriber Station) -- 3

DHAMAR								
Site Name	Land	Access	Building	Subscriber Unit	Drop-out Sub.line	Entrance Cable	Drop Wire	Telephone Set
DHAMAR BS.								
J. YASLAK REP.								
AITHAYN	0	A.r.	0	1	5	A.r.	0	0
ASAM	0	A.r.	0	1	5	A.r.	0	0
AL MADARAH	0	A.r.	0	1	5	A.r.	0	0
J. AL MODBA'AH REP.								
ABU ATIF REP.								
BAYHAN	0	A.r.	0	1	5	A.r.	0	0
J. MANARA REP.								
AHLAL	0	A.r.	0	1	5	A.r.	0	0
AL HARF	0	A.r.	0	1	5	A.r.	0	0
HIJRAT ADH DHARI	0	A.r.	0	1	5	A.r.	0	0
BANI MUWALLAD	0	A.r.	0	1	5	A.r.	0	0
AD DANN REP.								
BANI AS SAMHI	0	A.r.	0	1	5	A.r.	0	0
BANI MUSLIM	0	A.r.	0	1	5	A.r.	0	0
BANI ALI	0	A.r.	0	1	5	A.r.	0	0
ATH THULUTH	0	A.r.	0	1	5	A.r.	0	0
J. AL LISTI REP.								
AD DARAH	0	A.r.	0	1	5	A.r.	0	0
ABASIR	0	A.r.	0	1	5	A.r.	0	0
ASH SHAQIB	0	A.r.	0	1	5	A.r.	0	0
AMID	0	A.r.	0	1	5	A.r.	0	0
AS SANAM	0	A.r.	0	1	5	A.r.	0	0
SANAH	0	A.r.	0	1	5	A.r.	0	0
AL HIJRAH REP.								
AL MUGHADIYAH	0	A.r.	0	1	5	A.r.	0	0
BYT ASH SHAMI REP.								
ARAM	0	A.r.	0	1	5	A.r.	0	0

Scope of Provision (Subscriber Station) - 6

TAIZZ Site Name	Land	Access	Building	Subscriber Unit	Drop-out Sub.line	Entrance Cable	Drop Wire	Telephone Set
TAIZZ BS.								
ARUS O/H REP.								
HADNAN	0	A.r.	0	1	5	A.r.	0	0
AL HUSAYN	0	A.r.	0	1	5	A.r.	0	0
AL AMAKIR	0	A.r.	0	1	5	A.r.	0	0
AL AMAQI	0	A.r.	0	1	5	A.r.	0	0
QARAMAH	0	A.r.	0	1	5	A.r.	0	0
AS SAMKAR	0	A.r.	0	1	5	A.r.	0	0
AZ ZAHRAH	0	A.r.	0	1	5	A.r.	0	0
ARABAH	0	A.r.	0	1	5	A.r.	0	0
H.OMAIMAH REP.								
BAYT JARANI	0	A.r.	0	1	5	A.r.	0	0
QARYAT JARANI	0	A.r.	0	1	5	A.r.	0	0
J.HABASHI REP.								
ARID REP.								
YUFRUS	0	A.r.	0	1	5	A.r.	0	0
AL MUDAYHIS	0	A.r.	0	1	5	A.r.	0	0
J.SABARAN REP.								
ASH SHARAF	0	A.r.	0	1	5	A.r.	0	0
HAYFAN	0	A.r.	0	1	5	A.r.	0	0
SHAWHAT	0	A.r.	0	1	5	A.r.	0	0
H.AN HANAN REP.								
J.AN NAR REP.								
J.WADI BISYAN	0	A.r.	0	1	5	A.r.	0	0
YAKHTUL	0	A.r.	0	1	5	A.r.	0	0
ATH THAWBANI	0	A.r.	0	1	5	A.r.	0	0
J.AL UMARI REP.								
DHUBAB	0	A.r.	0	1	5	A.r.	0	0
BAB AL MANDAB	0	A.r.	0	1	5	A.r.	0	0

Drawing 8 BOUNDARIES OF PROVISION

凡 例

○ : Terminal to be provided by Y.A.R.

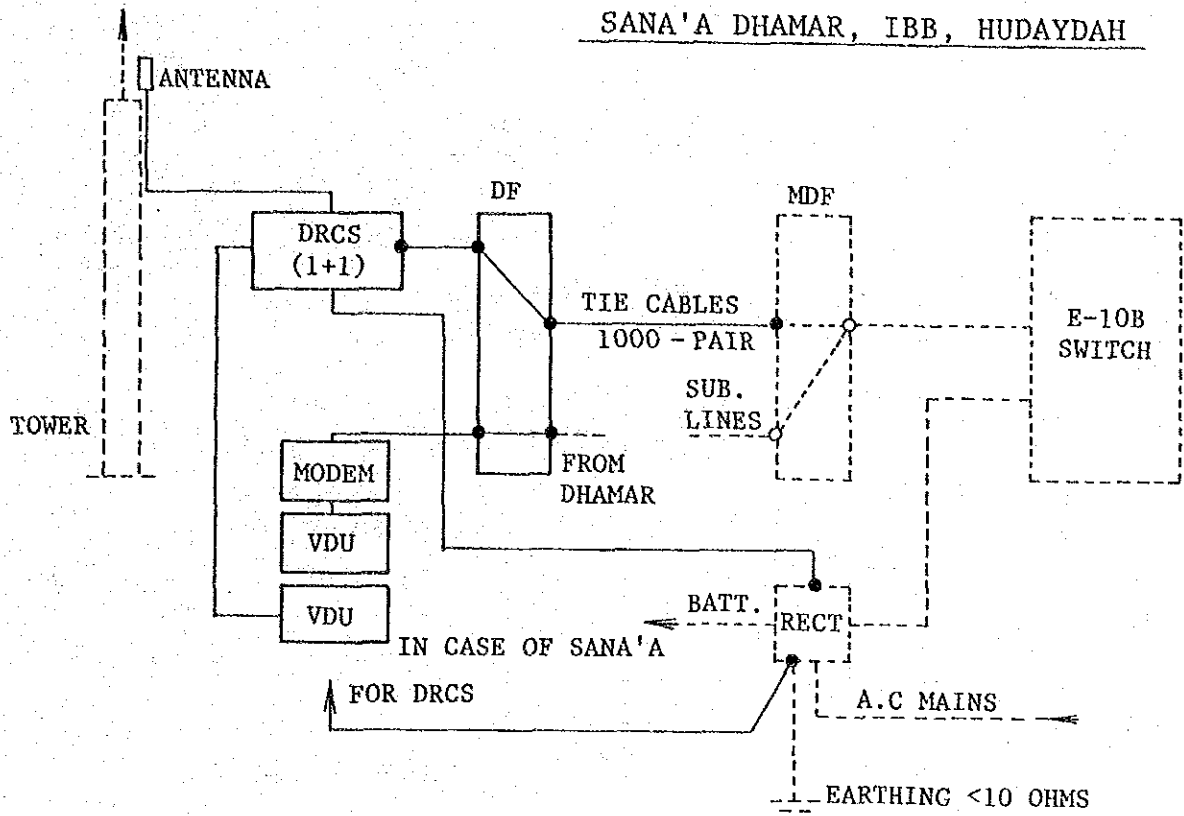
● : Terminal to be provided by G.O.J.

--- : Facilities to be provided by Y.A.R..

— : Facilities to be provided by G.O.J.

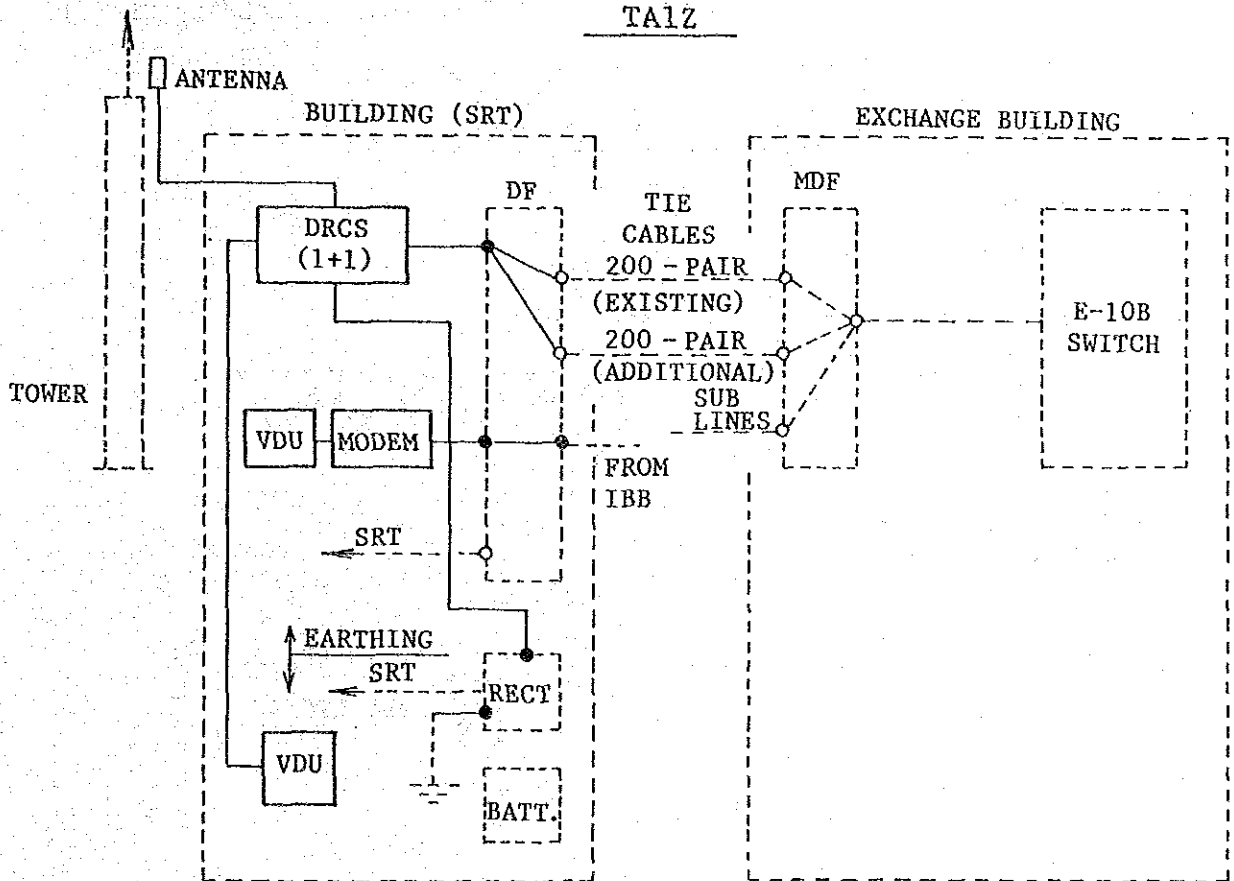
LIGHTNING ARRESTER

SANA'A DHAMAR, IBB, HUDAYDAH

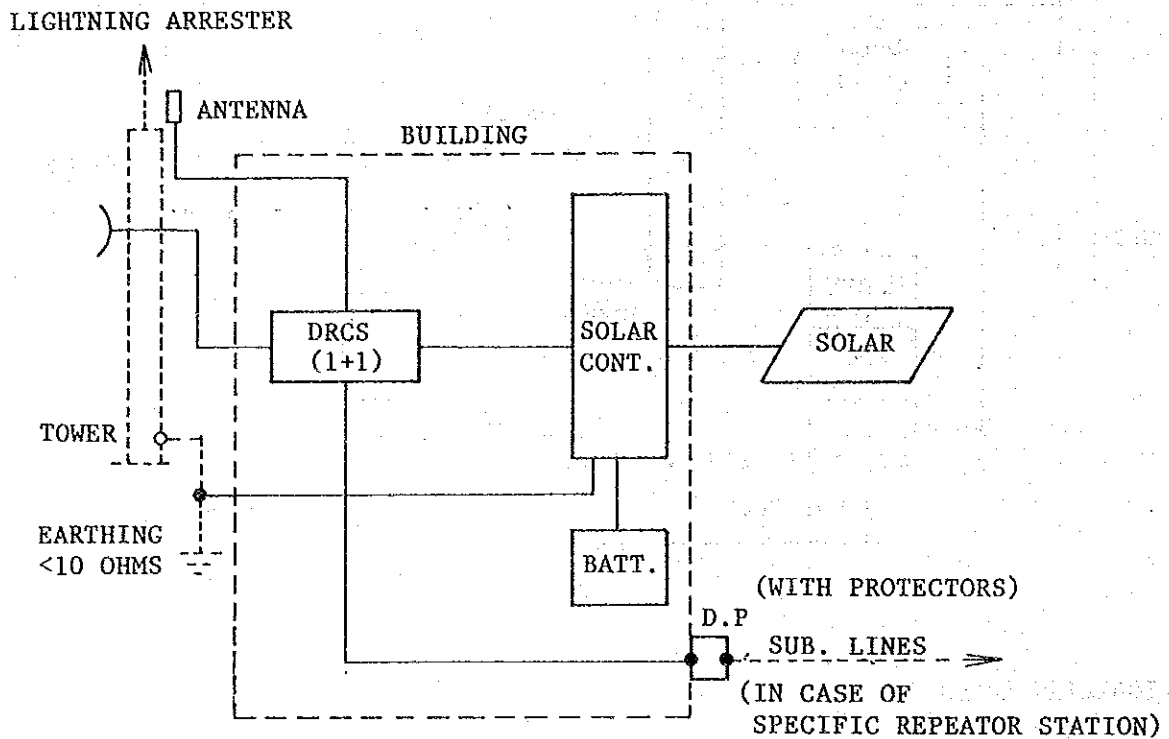


LIGHTNING ARRESTER

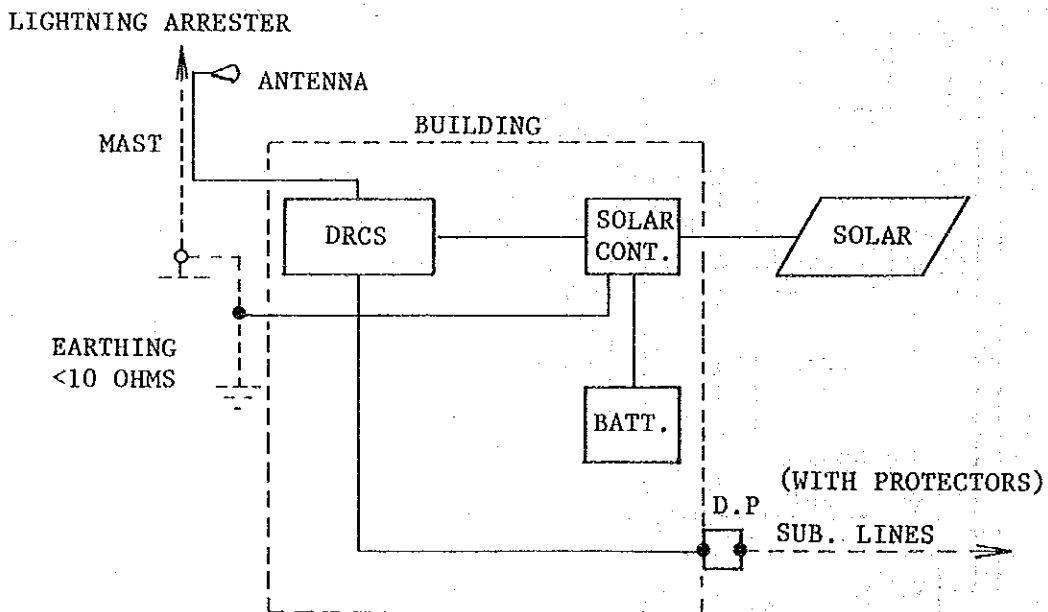
TAIZ



NEW REPEATER STATIONS



SUBSCRIBER STATIONS



SCOPE OF PROVISION - 2

ANNEX 1

ANNEX 1-1 Minutes of Discussions (December, 1988)

ANNEX 1-2 Staff Lineup of Study Team

ANNEX 1-3 Itinerary of Study Team

ANNEX 1-4 Names of Officials Involved

ANNEX 1-5 List of Collected Data

ANNEX 1-6 Minutes of Discussions (March, 1989)

ANNEX 1-1

MINUTES OF DISCUSSIONS
ON
THE RURAL TELECOMMUNICATION NETWORK EXPANSION PROJECT
IN
YEMEN ARAB REPUBLIC

In response to the request of the Government of Yemen Arab Republic, The Government of Japan decided to conduct a Basic Design Study (hereinafter referred to as "the Study") on the Rural Telecommunication Network Expansion Project (hereinafter referred to as "the Project") and entrusted the Study to the Japan International Cooperation Agency (JICA). JICA sent the Study Team headed by Mr. Akira Okura, Senior Official of International Cooperation Division, Communications Policy Bureau, Ministry of Posts & Telecommunications to Yemen Arab Republic from 26th November to 6th December, 1988.

The Study Team had a series of discussions on the Project with the officials concerned with the Government of Yemen Arab Republic headed by Mr. Mohamed Al-Kassous, Deputy Director General of Public Telecommunication Corporation.

As a result of the discussion, both parties agreed to recommend to their respective Governments that the major points of understanding reached between them, attached herewith, should be examined towards the realization of the Project.

Sana'a 6th December, 1988



Akira Okura
Leader,
Basic Design Study Team
JICA



Mohamed Al-Kassous
Deputy Director General
Public Telecommunication
Corporation
Yemen Arab Republic.

1. The objective of the Project is to improve the present conditions of rural telecommunications services in the rural areas and to support consequently the social and economic development as well as promotion of social welfare for the people and stabilization of their lives.

2. As a result of discussions between the Study Team and the Public Telecommunication Corporation, Yemen Arab Republic (hereinafter referred to as "PTC") in relation to the necessity and appropriateness of providing the telephone services for the one hundred villages proposed initially by the Government of Yemen Arab Republic, eighty-two villages out of them have been finally selected to be studied by the Study Team.

PTC requested the Study Team to include newly selected eighteen villages in the Study in view of the rapid circumstantial changes in the rural areas on the condition that the number of villages to be studied remains one hundred. The study of those eighteen villages will be conducted by the Team within the limits of technical possibility.

The villages listed in ANNEX I have been confirmed as final by PTC. The villages are located at strategically important places with regard to the social and economic aspects.

The provision of the telephone facilities for those villages will contribute to the development of the areas concerned as well as catering to administrative requirements.

3. Priority of the introduction of rural telephone network for each governorate will be given as per following order:

(1) Sana'a (2) Dhamar (3) Hudaydah (4) Taiz (5) Ibb

4. The Project consists of the following components:

(1) Installation of Digital Radio Concentration System (DRCS) to serve all the subscribers consisting of;

-1) DRCS facilities including power supply and aerial facilities at base stations, repeater stations and subscriber stations respectively.

(F)

- 2) Aerial supporting structures required (towers and masts) at the stations;
- 3) Voice Frequency (VF) cables between subscriber stations and distribution points at the villages, and
- 4) Drop wires, internal wires in subscribers' premises and telephone sets.

(2) Construction of supporting facilities necessary for the DRCS installation consisting of;

- 1) Securing of land for the sites and the ground development,
- 2) Provision of access to the sites, and
- 3) Buildings.

(3) Provision for necessary facilities including equipment for operation and maintenance required for the DRCS network consisting of;

- 1) Tools and test equipment required for normal maintenance work,
- 2) Spares, and
- 3) One set of DRCS network facilities with testing equipment for repairing of the supplied DRCS equipment.

5. The Government of Yemen Arab Republic will take necessary measures listed in ANNEX II on conditions that the Grant Aid would be extended to the Project.

6. The Public Telecommunication Corporation is responsible for the administration and execution of the Project.

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7. The Study Team will convey to the Government of Japan the desire of the Government of Yemen Arab Republic that the former takes necessary measures to cooperate by providing the items listed in ANNEX III within the scope of Japanese Economic Co-operation Programme in Grant form.

8. The Government of Yemen Arab Republic has understood the Japan's Grant Aid System explained by the Study Team which includes a principle of use of Japanese consultant firm and Japanese contractor for the implementation.

9. The Government of Yemen Arab Republic desired to be provided with training course for operation and maintenance of the DRCS in Japan under the Japanese Technical Cooperation Programme.

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ANNEX I

NAME OF VILLAGE

Sana'a

Dhamar

<u>Station No.</u>	<u>Name of Village</u>	<u>Station No.</u>	<u>Name of Village</u>
1.	Sayyan	1.	Amid
2.	Bayt Hadir	2.	Ash Shaqib
3.	Al-Marbak	3.	A Drah
4.	Jihanah	4.	Abasir
* 5.	Ghayman	* 5.	Bani Muwallad
* 6.	Al-Kibs	6.	Bayhan
7.	Shaban	7.	Al Mughadiyah
* 8.	Al Khadarah	* 8.	Ath Thalooth
9.	Khalaqah	9.	Hijrat Adh Dhari
(K) *10.	Bani Qasim Al Hawri	10.	Aishayn
*11.	Zala	*11.	Bani Ali
*12.	Markaz Bilad Attaam	12.	Ahlal
(K) 13.	Bayt al-Khbar Bani Maymun	*13.	Bani Mosleem
14.	Haz	14.	Al Harf
15.	Al Munaqqab	15.	Assan
16.	Ar Rawnah	16.	Madarah
*17.	Kusma	17.	As Sanam
18.	Ghadran (Bayt Athran)	18.	Sanah
19.	Thila	19.	Aram
*20.	Al Khamis	*20.	Samh

Note: New villages are indicated with asterisk

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IbbTaiz

<u>Station No.</u>	<u>Name of Village</u>	<u>Station No.</u>	<u>Name of Village</u>
1.	Al Hamami	1.	Al Amakir
2.	Qaryat As Sanahi	2.	Al Husayn
3.	Al Waqash	3.	Qaramah
4.	Mabar	4.	Al Amaqi
5.	Al Mabar	5.	Arabah
6.	Ar Rabai	6.	As Samker
7.	Al Jahasi	7.	Hadnan
8.	Akamat As Safani	8.	Al Mudayhish
9.	Ad Duhra	9.	Shawhat
10.	Al Udayn	10.	Yufrus
11.	Al Marakit	11.	Qaryat Jarani
12.	Dhi Sarif	12.	Bayt Ubaydan
13.	Dakhlat Uwaydayn	*13.	Ash Sharaf
14.	J. Mutayr	14.	Az Zhahrah
15.	Haddat Ghlays	15.	Yakh Tul
16.	Al Maqalih	*16.	Haifan
17.	As Misqah	17.	Ath Thawbani
18.	Bayt Al Ashwal	18.	J. Wadi Bisyan
*19.	Murais	19.	Bab Al Mundab
*20.	Najd Al Jumai	20.	Dhubab

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Hudaydah

<u>Station No.</u>	<u>Name of Village</u>
1.	Dayr Al Mudaawwar
2.	Ad Dawm
3.	Luhayyah
4.	Az Zubayrah
5.	Mawr
6.	Al Qanamah
7.	Al Humasiyah
8.	Az Zuhrah
9.	Al Mutarid
10.	Dayr Dukhnah
11.	Dayr Al Wali
12.	Dayr Al Mahadi
13.	Al Hashabirah
14.	Al Qanawis
15.	Daudiyah
16.	Dayr Kuzabah
17.	Dayr Abdullah
*18.	Al Miglaf
19.	Al Munirah
20.	Al Mughaydifiyah

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ANNEX II

UNDERTAKING BY THE GOVERNMENT OF YEMEN ARAB REPUBLIC

1. To secure all the sites. . .
2. To clear, level and reclaim the sites prior to commencement of the construction.
3. To undertake incidental outdoor works such as fencing and gate.
4. To provide the access required to the sites prior to commencement of the construction.
5. To provide the following facilities;
 - (1) Buildings for all the stations
 - (2) Towers and masts for all the stations
 - (3) VF cables for villages
 - (4) Drop wires and telephone sets
6. To bear commissions to the Japanese foreign exchange bank for banking services based upon the Banking Arrangement.
7. To exempt customs duties and to take necessary measures for customs clearance of the materials and equipment brought for the Project at the port of disembarkation.
8. To accord Japanese Nationals whose services may be required in connection with the supply of products and the services under the verified contract such facilities as may be necessary for their entry into Yemen Arab Republic and stay therein for the performance of their work.

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9. To maintain and use properly and effectively the facilities constructed and equipment purchased under the Grant.

10. To bear all the expenses other than those to be borne by the Grant, necessary for installation of the facilities as well as for the transportation.

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ANNEX III

DESIRE OF YEMEN ARAB REPUBLIC FOR JAPAN

1. To install following components for establishment of the DRCS network to serve the subscribers at one hundred villages;
 - (1) DRCS facilities for all the DRCS stations,
 - (2) Power supply equipment for all the stations excepting the base stations, and
 - (3) Aerial facilities for all the stations.

2. To supply following items for normal operation and maintenance work;
 - (1) Tools and test equipment,
 - (2) Spares, and
 - (3) One set of DRCS network facilities with testing equipment for repairing of the supplied DRCS equipment.

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ANNEX 1-2 STAFF LINEUP OF STUDY TEAM

Team Leader	Akira OKURA Senior official, International Cooperation Division, Communications Policy Bureau, Ministry of Posts & Telecommunications
Assistant Team Leader	Takeshi SHIMIZU Assistant to Director, Group Business Strategy Department, Kokusai Denshin Denwa Co., Ltd. (KDD)
Coordinator	Akihiro MATSUMOTO Senior staff, Second Basic Design Study Division, Grant Aid Planning & Survey Department, JICA
Engineer (Project Manager)	Shigeto KIMURA Engineering Division, The Nippon Telecommunications Consulting Co., Ltd. (NTC)
Engineer (Civil, Cable)	Seishiro FUJINAMI Telecommunication Division, NTC
Engineer (Power)	Tsutomu HARIMA Engineering Division, NTC
Engineer (Transmission)	Masaki UEHARA Telecommunication Division, NTC
Engineer (Transmission)	Kazuyuki KUWABARA Telecommunication Division, NTC
Engineer (Civil)	Etsuro KONNO Telecommunication Division, NTC
Engineer (Cost)	Kazuhiro OTAKEGUCHI Telecommunication Division, NTC

ANNEX 1-3 ITINERARY OF STUDY TEAM

- Nov. 26 (Sat.) Leaving Tokyo for Sana'a
27 (Sun.) On flight
28 (Mon.) Arrival in Sana'a
 Courtesy calls for Japan Embassy, Minister of MOC and Deputy
 Minister of CPO
29 (Tue.) Discussions with PTC on Inception Report
30 (Wed.) Discussions with PTC Inception Report and preparatory work
 for field survey
- Dec. 1 (Thu.) Preparatory work for field survey
2 (Fri.) Discussion with PTC on draft Minuts of Discussions and
 preparatory work for field survey
3 (Sat.) Discussion on draft Minutes of Discussions
4 (Sun.) Map study
5 (Mon.) Map study
6 (Tue.) Signing of Minutes of Discussions and map study
7 (Wed.) 3 members leaving Sana'a for Tokyo
 Field survey for Sana'a and Ayban
8 (Thu.) Field survey for Hudaydah and Taizz areas
9 (Fri.) Ditto
10 (Sat.) Ditto
11 (Sun.) Field survey for Sana'a and Taizz areas
12 (Mon.) Ditto
13 (Tue.) Field survey for Dhamar and Ibb areas
14 (Wed.) Ditto
15 (Thu.) Ditto
16 (Fri.) Field survey for Dhamar area
17 (Sat.) Arrangement of data obtained by survey
18 (Sun.) Ditto
19 (Mon.) Ditto
20 (Tue.) Ditto
21 (Wed.) Ditto
22 (Thu.) Ditto
23 (Fri.) Ditto
24 (Sat.) Preparation for leave
25 (Sun.) Greeting for PTC officials concerned and reporting for Japan
 Embassy
26 (Mon.) Leaving Sana'a for Tokyo
27 (Tue.) Arrival in Tokyo

ANNEX 1-4 NAMES OF OFFICIALS INVOLVED

Y. A. R Side

H.E. MOTAHER AL-SAIDI	Deputy Minister of CPO
H.E. MOHAMED AL KAHADEM AL-WAJIH	Minister of MOC
H.E. MOHAMED AL-ARASHI	Deputy Minister of MOC
Mr. ABDULLAH AL-HAMAMI	Director General of PTC
Mr. MOHD AL-KASSOUS	Deputy D. G of PTC
Mr. MOHAMED AL-NAHARI	Director of Statistic/Planning, PTC
Mr. ABDOL KARIM MOTAIR	Director of Administration, PTC
Mr. MOHAMED A. ABDO	Director of Sana'a Region, PTC
Mr. MOHD AL-GEEZ	Director of Project, PTC
Mr. TAHER A. AL-FAKIH	Public Relation, PTC
Mr. V. P. SAXENA	Consultant of PTC
Mr. AHMED AL-HADDAD	Eng. of Microwave, PTC
Mr. AHMED ABDULAGANI	Eng. of Transmission, PTC
Mr. HASSAN AL-WADAY	Eng. of Rural Telecom, PTC
Mr. YOUSEF AL-SLWY	Eng. of Transmission, PTC
Mr. AHMED AL-SABAHI	-do-
Mr. AL MGHAFFY	Director of Taizz Region, PTC
Mr. ABDOL RAHMAN AL-MOAIN	Chief of Transmission, Traiz
Mr. MOHSEN AL-DHMARY	Director of Ibb Region, PTC
Mr. DAMIN AL-HADAD	Chief of Transmission, Ibb
Mr. AHMED NASSER	Director of Hudaydah Regin, PTC
Mr. AHMED AL-WARAGI	Director of Dhamar Region, PTC

Y. A. R Side

Mr. YUICHI ISHI	Charg'e d'Affaires ad interime of Embassy of Japan, Sana'a
Mr. TAKEO SAITO	First Secretary of Embassy of Japan, Sana'a

ANNEX 1-5 LIST OF COLLECTED DATA

1. Evaluation of the Second Five-Year Plan, 1982-1986 CPO, (Arabic)
2. The Third Five-Year Plan, 1987-1991, CPO (Arabic)
3. Statistical Year Book, 1987, CPO (English)
4. Meteorological Data

ANNEX1-6

MINUTES OF DISCUSSIONS
ON
THE RURAL TELECOMMUNICATIONS NETWORK EXPANSION PROJECT
IN
YEMEN ARAB REPUBLIC.

In response to the request of the Government of Yemen Arab Republic for the Rural Telecommunication Network Expansion Project (hereinafter referred to as "the Project"), the Government of Japan decided to conduct a basic design study on the project and entrusted the study to the Japan International Cooperation Agency (JICA). JICA sent the study team headed by Mr. Akira Okura, Senior official of International Cooperation Division, Communications Policy Bureau, Ministry of Posts & Telecommunication to Yemen Arab Republic from 26th November to 27th December 1988.

As a result of the basic design study, JICA prepared a draft report and dispatched a team headed by Mr. Akira Okura, to discuss with Yemen Arab Republic from 13th March to 23rd March, 1989.

Both parties had a series of discussions on the report and agreed to recommend to their respective Governments that the major points of understanding reached between them, attached herewith, should be examined towards the realization of the Project.

Sana'a 21st March, 1989

大蔵 啓

(Akira Okura)
Team Leader
Basic Design Study Team
JICA

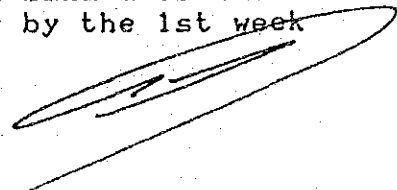
(Abdullah Al-Hammami)
Director General
Public Telecom Corp.

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MAJOR POINTS OF UNDERSTANDING

1. Yemen Arab Republic (hereinafter abbreviated Y.A.R.) side has agreed to the basic design proposed by Japan side with the following modifications to be incorporated in the final report;
 - (1) To allocate 2.4GHz and 4MHz spacing,
 - (2) To supply DC 48V power from existing Microwave repeater station to the DRCS equipment,
 - (3) To provide DC 12V power supply equipment with 4-days autonomy for the subscriber station,
 - (4) To provide DRCS equipment with capability for more than 500 lines, and with intracall facility,
 - (5) To provide antenna towers within 60m height.
2. The project implementation schedule attached herewith has been agreed by both parties.
3. Y.A.R. side has agreed to secure necessary local finance to provide the following facilities:
 - (A) All the buildings to accomodate all the telecommunication equipments,
 - (B) All the antenna towers and masts including lightning arresters,
 - (C) Warehouse and yard for the DRCS equipment and installation materials at Sana'a, Dhamar, Hodaydah, Ibb and Taizz,
 - (D) All the subscriber line networks.
4. Y.A.R. side will inform Embassy of Japan in Sana'a of the situation of the local financing in writing by the 1st week of April 1989.

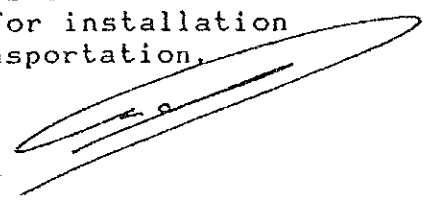
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5. Y.A.R. side has agreed to provide the above mentioned facilities except the item 1-(D) in time for the implementation as per the project implementation schedule agreed.
6. The DRCS equipment including antennas feeders and power plant will be provided by Japan side.
7. Y.A.R. side strongly desired that the installation, testing and commissioning of DRCS facilities of Phase 2 will be done by YAR side under the supervision of Japan side.
8. On-the-Job-Training for PTC technical staff shall be done during installation period to secure smooth operation and maintenance of DRCS facilities installed.
9. Japan side will provide 10 copies of the final report in English to Y.A.R. side at the beginning of May, 1989.
10. Y.A.R. side agreed to bear commissions to the Japanese foreign exchange bank for banking services based upon the Banking Agreement.
11. Y.A.R. side agreed to exempt customs duties and to take necessary measures for customs clearance of the materials and equipment brought for the Project at the port of disembarkation.
12. Y.A.R. side agreed to accord Japanese Nationals whose services may be requested in connection with the supply of products and the services under the verified contract such facilities as may be necessary for their entry into Y.A.R. and stay therein for the performance of their work.
13. Y.A.R. side agreed to use properly and effectively the facilities constructed and equipment purchased under the Grant.
14. Y.A.R. side agreed to bear all the expenses other than those to be borne by the Grant necessary for installation for the facilities as well as for the transportation.

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Tentative Project Implementation Schedule

..... Y.A.R
 _____ Phase I by Japan
 _____ Phase II by Japan

