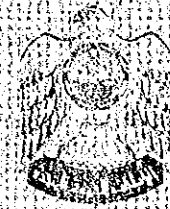


THE UNITED ARAB EMIRATES
THE MINISTRY OF AGRICULTURE AND FISHERIES
WATER AND SOIL DIRECTORATE



SHIMAL DAM PROJECT

DRAWINGS


TENDER AND CONTRACT DOCUMENTS

VOL. IV

JAPAN INTERNATIONAL COOPERATION AGENCY

JUNE, 1981

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**THE UNITED ARAB EMIRATES
THE MINISTRY OF AGRICULTURE AND FISHERIES
WATER AND SOIL DIRECTORATE**



SHIMAL DAM PROJECT

DRAWINGS

TENDER AND CONTRACT DOCUMENTS

VOL IV

JAPAN INTERNATIONAL COOPERATION AGENCY

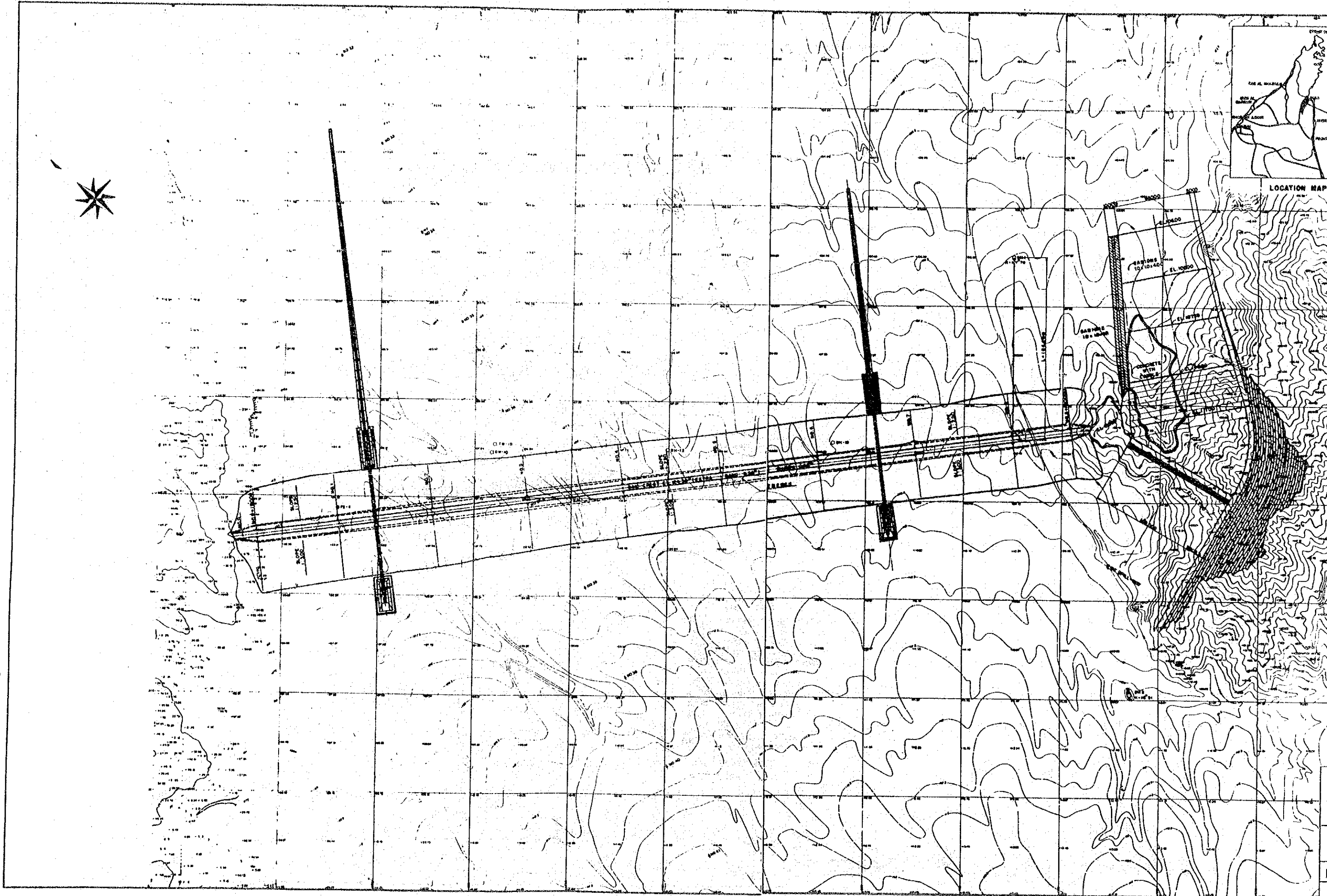
JUNE, 1981

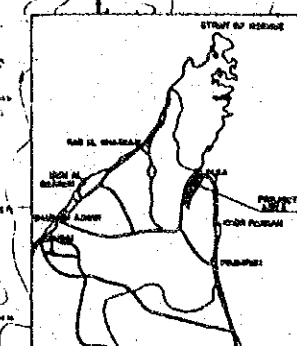
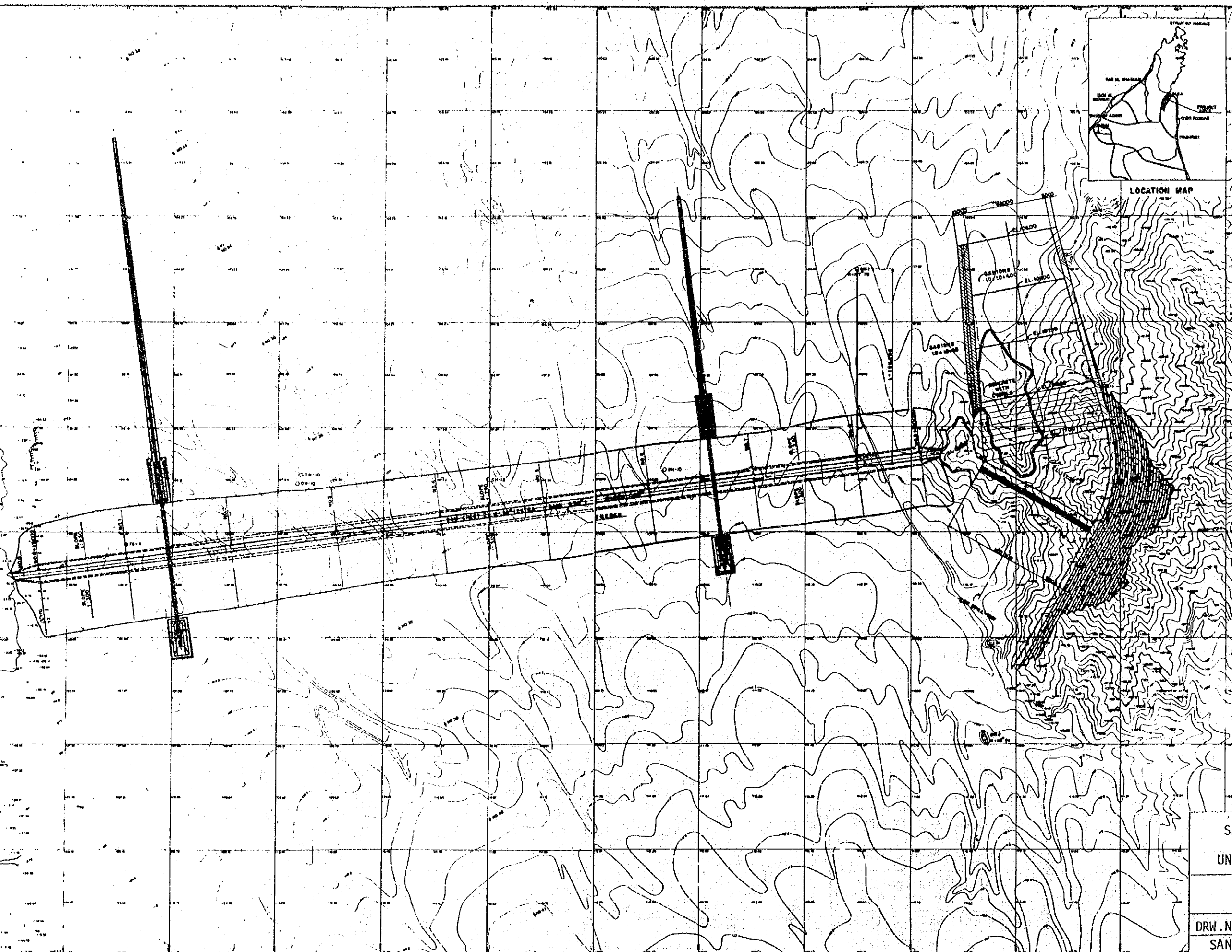
国際協力事業団	
受入 月日 61.7.28	3/5
	6.7
登録No. 12932	SDS

マイクロ
フィルム作成

List of Drawings

<u>Drawing No.</u>	<u>Title</u>	
1.	General Plan	1
2.	Geological Profile Along the Dam Axis	2
3.	Longitudinal Profile of the Dam Axis	3
4.	Typical Section	4
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DIMENSIONS	
LOCATION	SHIMAL, EMIRATES OF THE U.A.E.
RIVER	SHIMAL
DESIGN FLOW	1200 CUM SEC
MAX FLOOD	1400 CUM SEC
CATCHMENT AREA	122 SQ KM
AREA	1200 CUM SEC
F.R.S	EL. 118.00M
EFFECTIVE CAPACITY	920 CUM SEC
TYPE	FULL-TYPE
HEIGHT	210 M
CREST LENGTH	800 M
CHUTE	2.0 M
CHUTE	EL. 124.00 - EL. 123.00
CHUTE	EL. 123.00 - EL. 122.00
CHUTE	EL. 122.00 - EL. 121.00
VOLUME	90,000 M ³
TYPE	CHUTE TYPE WITHOUT GATE
DESIGN	1200 CUM SEC
CREST	EL. 118.00M
NO.	2
STA.	1433 MM
SP. FLOW	22.0 M ³ /SEC

BENCH MARK	
BENCH MARK	ELEVATION (MM)
NO. 1	EL. 107.70
NO. 2	EL. 112.91

- NOTES:
- ALL STATION ELEVATIONS AND DIMENSIONS ARE GIVEN IN METERS.
 - THE STATION NUMBERS AND TOTAL DISTANCES ARE INDICATED FROM LEFT BANK TO RIGHT BANK.
 - DAM CREST ELEVATION ON THE DRAWING IS INCLUSIVE OF EXTRA BANK (MAX. EXTRA BANK IS 5-00M).

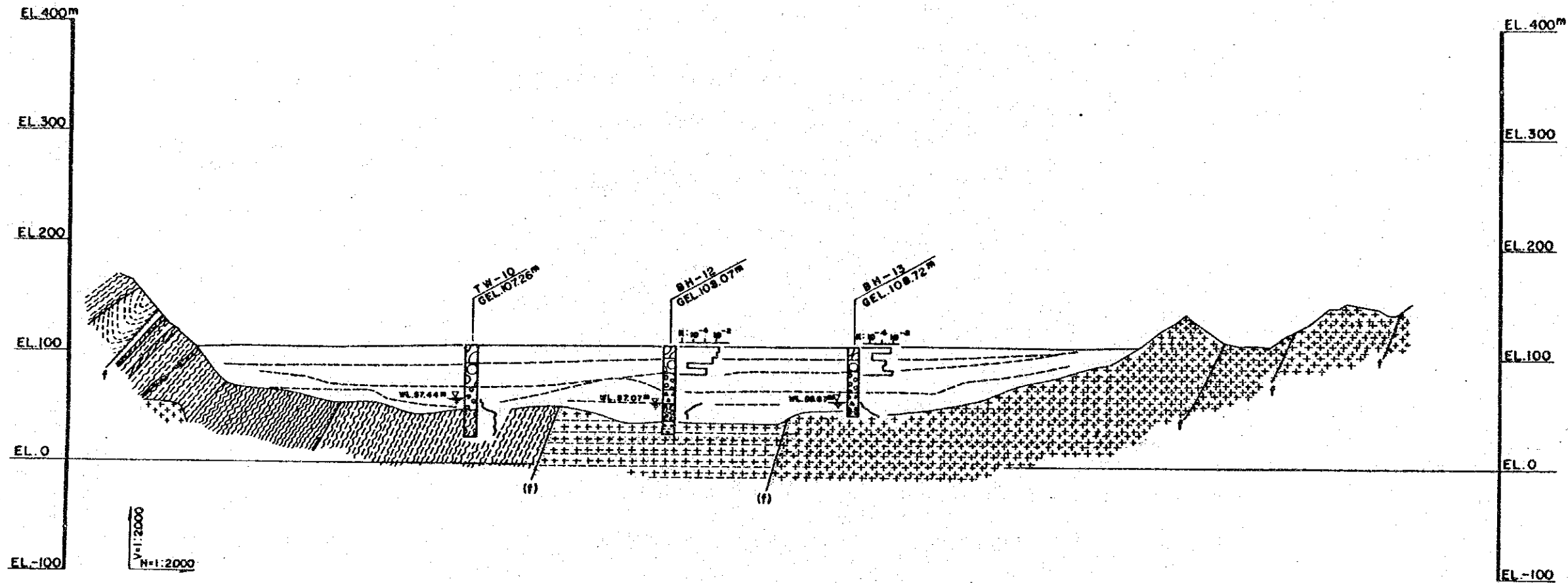
- LEGEND
- POWER POLE
 - ⊗ FLOOD GAUGE
 - TEST WELL
 - ⊠ BENCH MARK

SHIMAL DAM PROJECT
IN THE
UNITED ARAB EMIRATES

General Plan

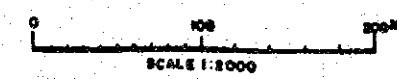
DRW. NO: 1 | TEAM LEADER : *L*
SANYU CONSULTANTS INC.

GEOLOGICAL PROFILE ALONG THE DAM AXIS



LEGEND

- [Pattern] RECENT WADIBED DEPOSIT
- [Pattern] LOWER TERRACE DEPOSIT
- [Pattern] UPPER TERRACE DEPOSIT
- [Pattern] TALUS DEPOSIT
- [Pattern] OLD TERRACE DEPOSIT (CONGLOMERATE FORMATION)
- [Pattern] SERPENTINITE
- [Pattern] SERPENTINITE/CLAY
- [Pattern] QUARTZ SCHIST/OTHER SCHISTS
- [Pattern] GREEN SCHIST
- [Pattern] QUARTZ SCHIST
- [Symbol] FAULT
- [Symbol] FAULT (ASSUMED)
- [Symbol] GEOLOGICAL BOUNDARY
- T W TEST WELL
- B H BORE HOLE



SHIMAL DAM PROJECT IN THE UNITED ARAB EMIRATES	
Geological Profile along the Dam axis	
DRW.NO: 2	TEAM LEADER : <i>H</i>
SANYU CONSULTANS INC.	

L=890000^m (DAM CREST LENGTH)

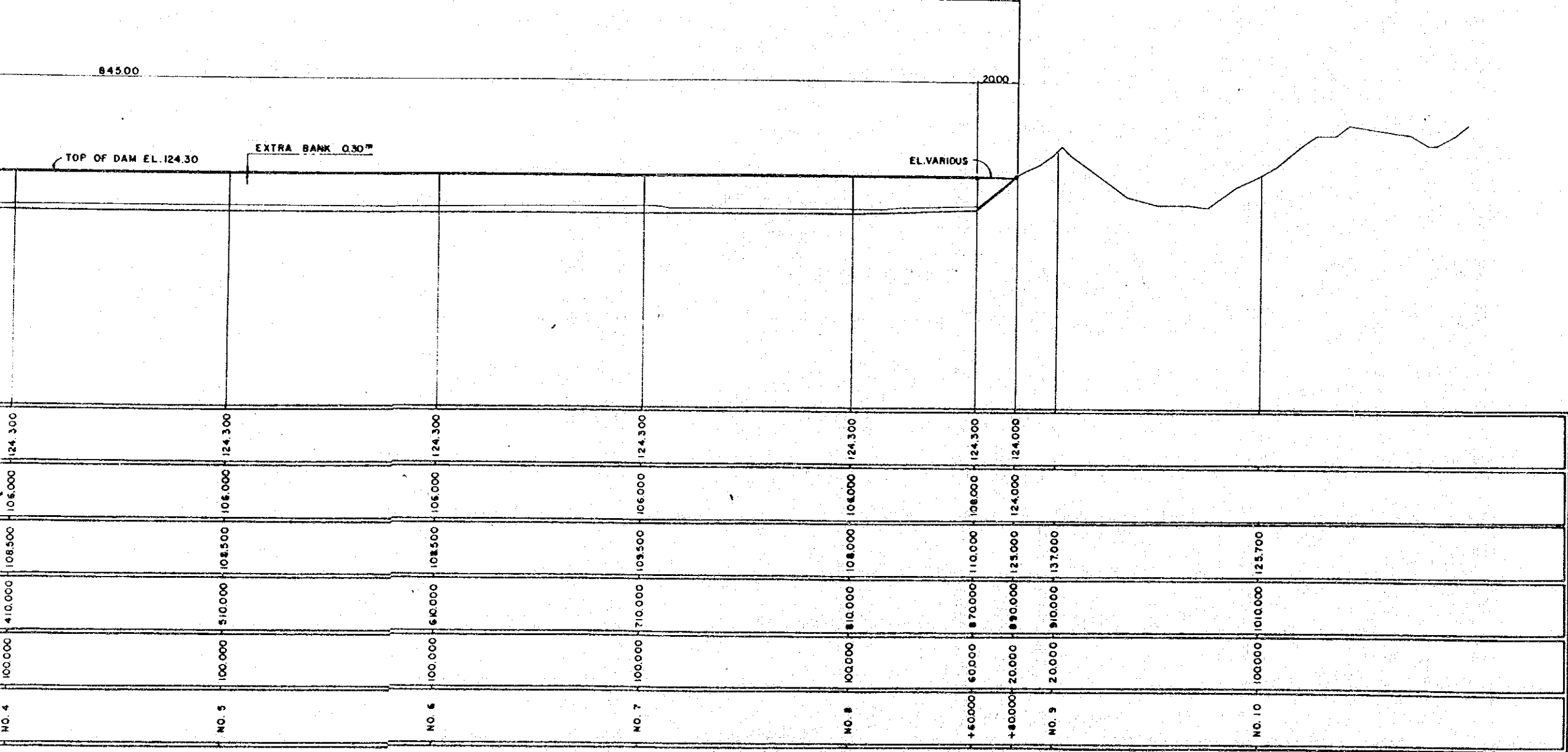
845.00

20.00

TOP OF DAM EL. 124.30

EXTRA BANK 0.30^m

EL. VARIOUS

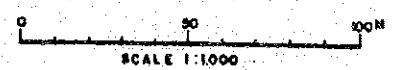


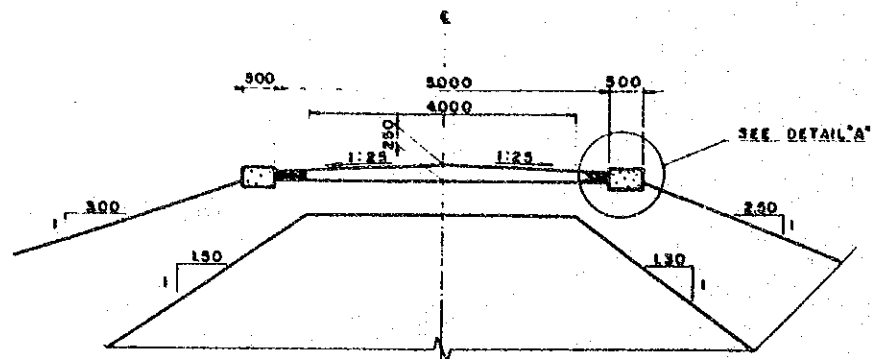
NOTE: ALL DIMENSIONS ARE GIVEN IN METER

SHIMAL DAM PROJECT
IN THE
UNITED ARAB EMIRATES

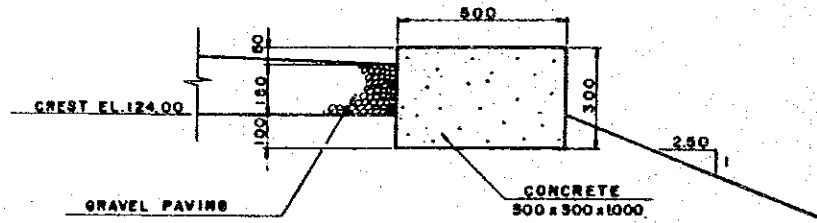
Longitudinal Profile
of Dam axis

DRW.NO: / TEAM LEADER: /
SANYU CONSULTANS INC.

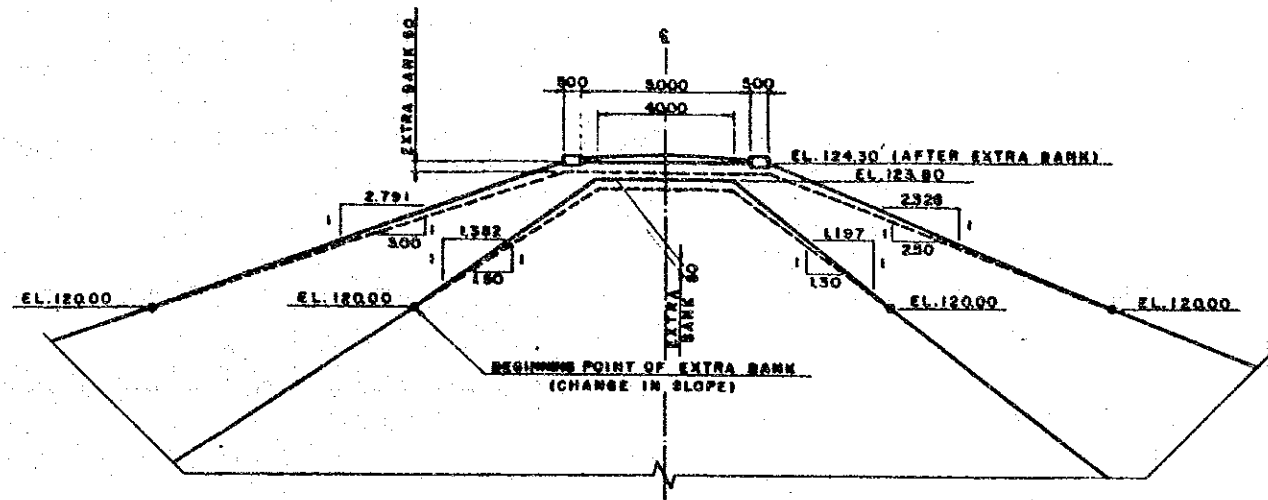




DETAIL OF CREST
SCALE 1:50

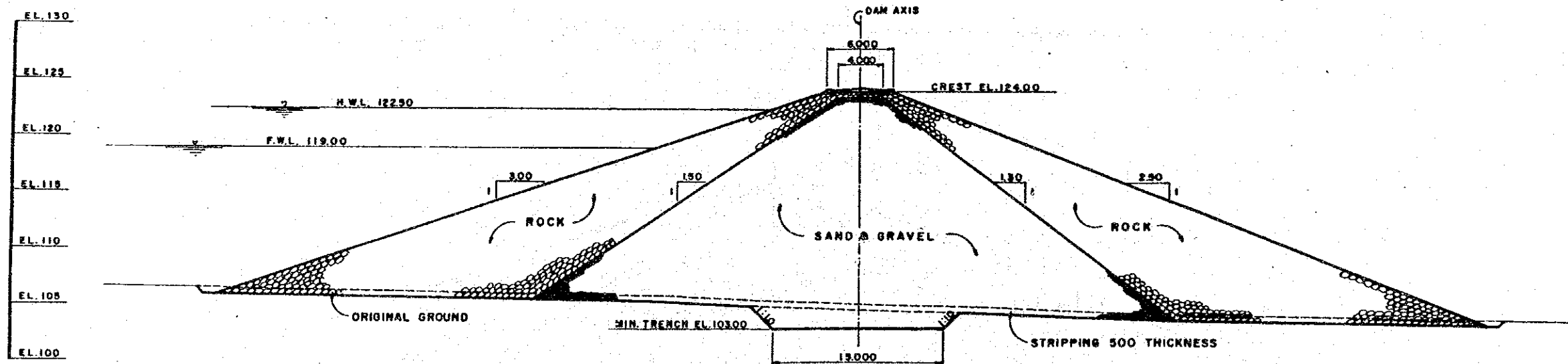


DETAIL 'A'
SCALE 1:10



DETAIL OF EXTRA BANK
SCALE 1:100

NOTES: ALL DIMENSIONS ARE GIVEN IN MILLI-METER.



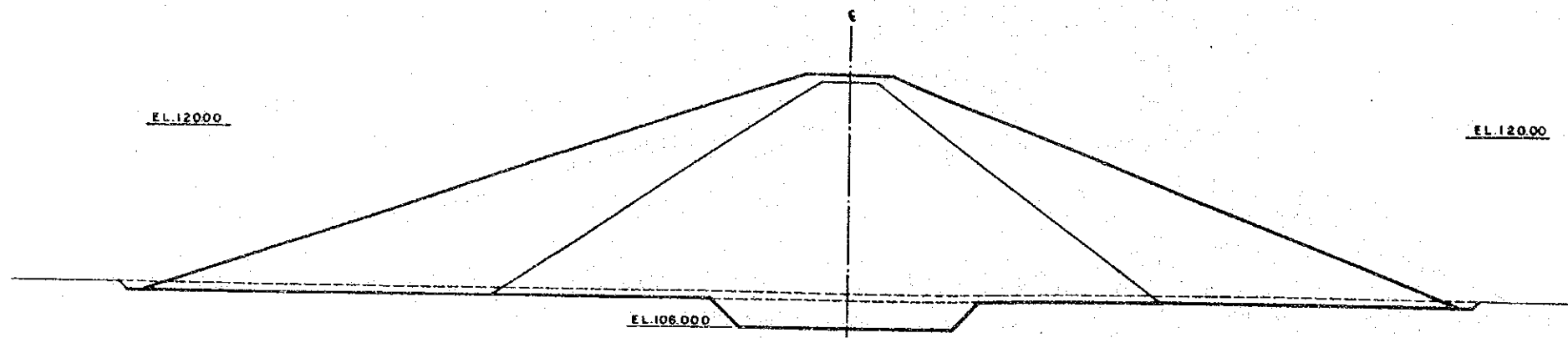
TYPICAL SECTION
SCALE 1:200



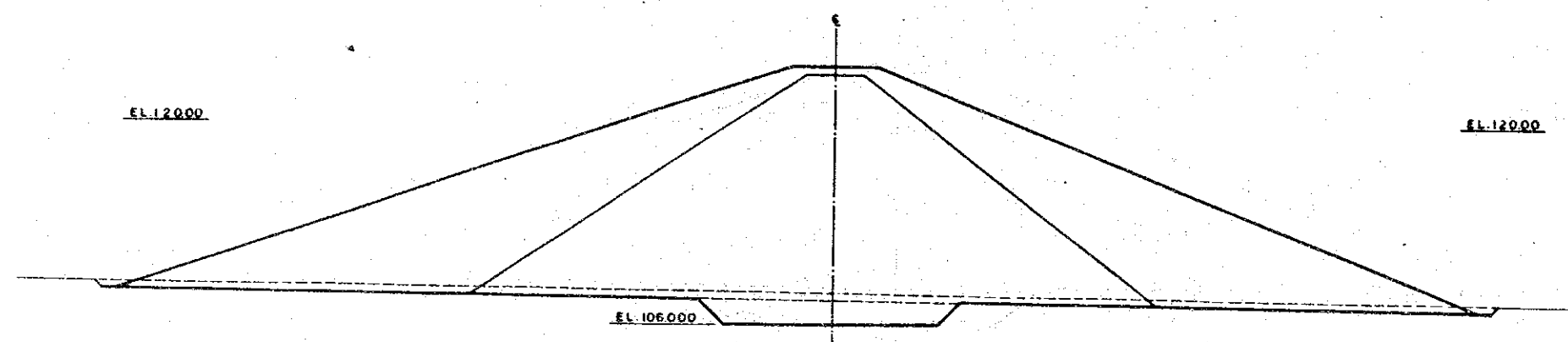
SHIMAL DAM PROJECT
IN THE
UNITED ARAB EMIRATES

Typical Section

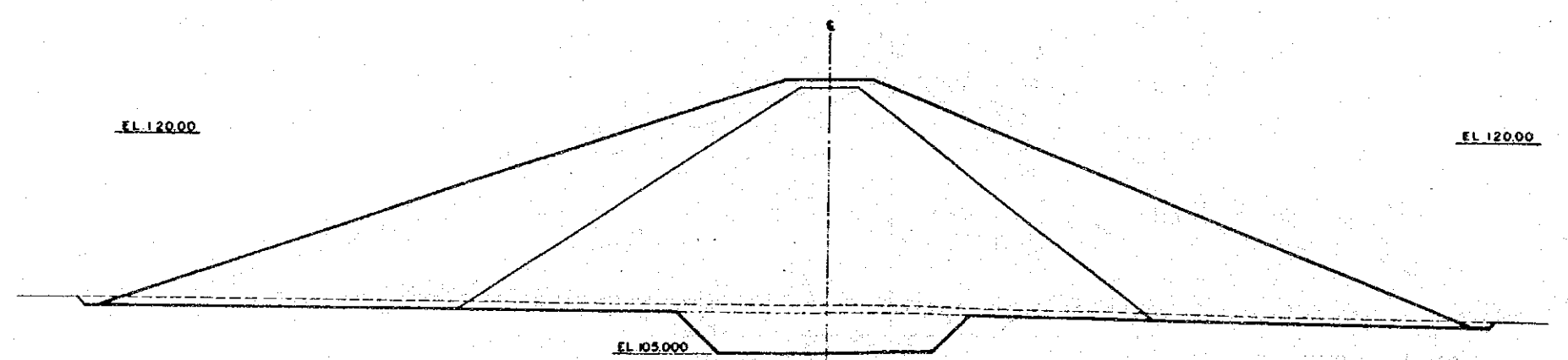
DRW. NO: 4 | TEAM LEADER: *ht*
SANYU CONSULTANS INC.



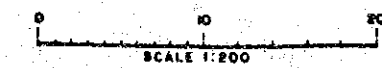
NO. 5



NO. 4

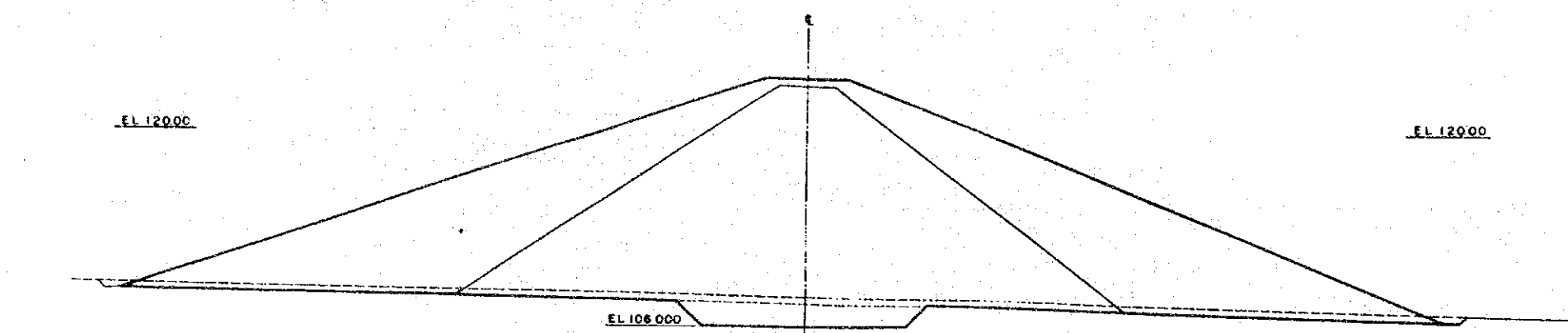


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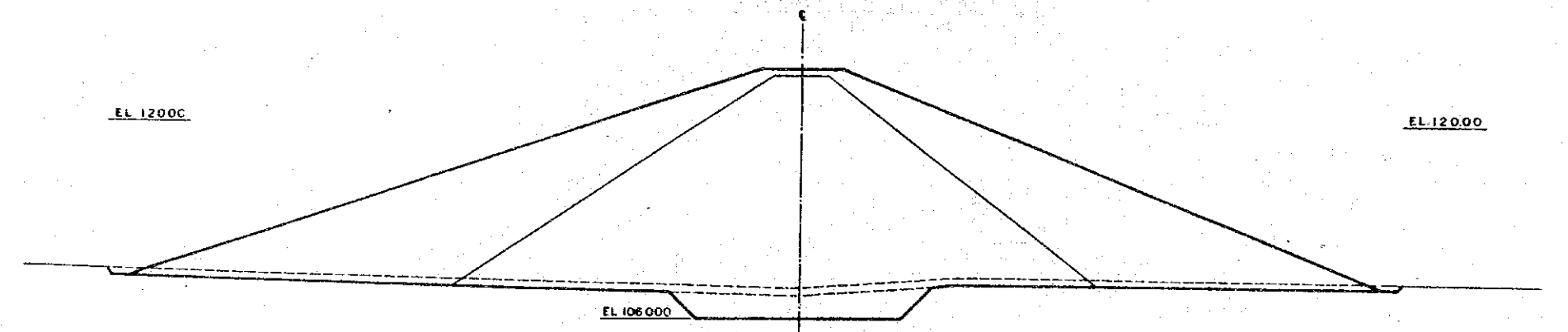


SHIMAL DAM PROJECT IN THE UNITED ARAB EMIRATES	
Cross Section (1)	
DRW. NO: 5	TEAM LEADER: M
SANYU CONSULTANS INC.	

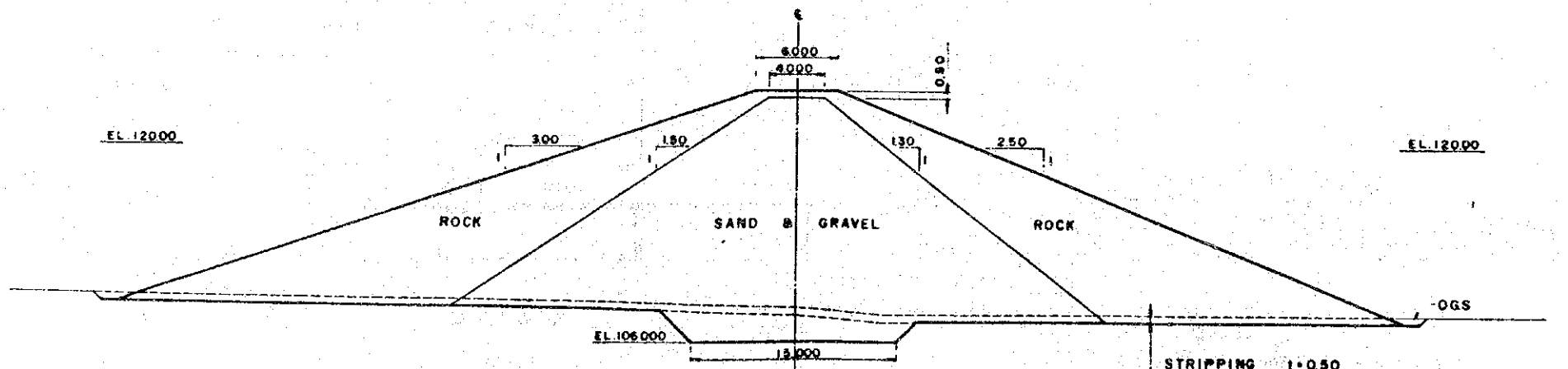
15-7



NO. 8



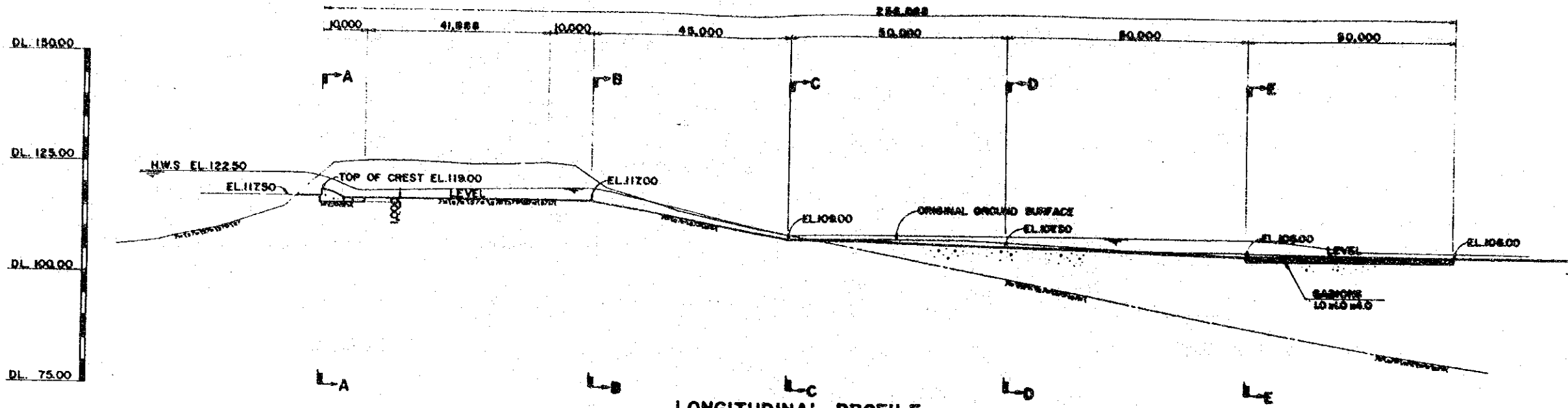
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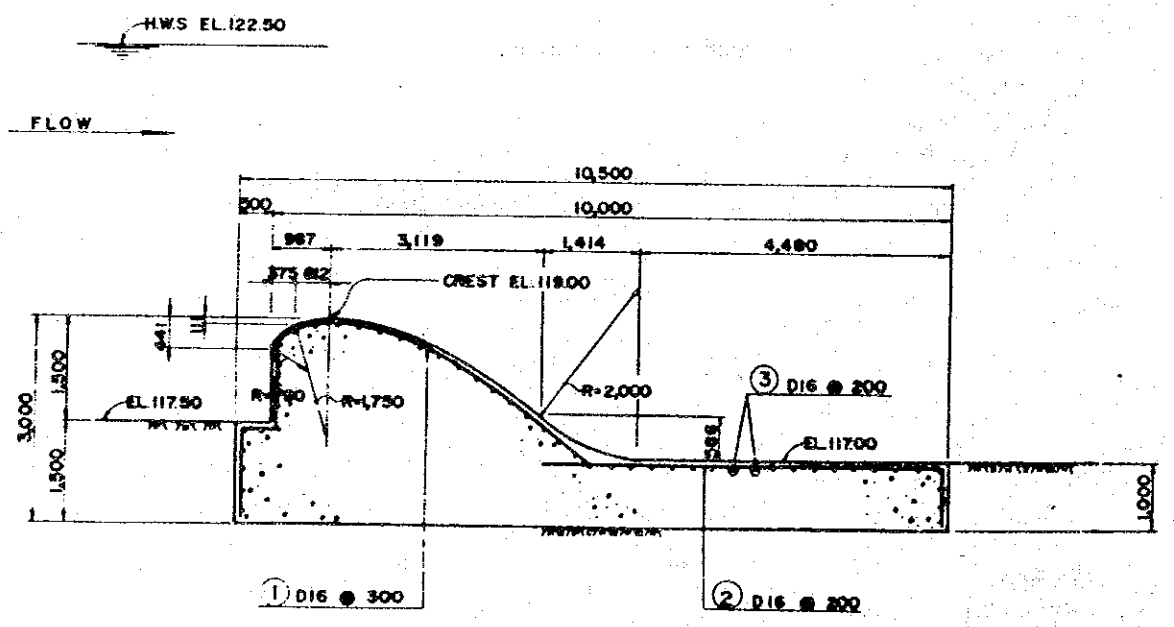
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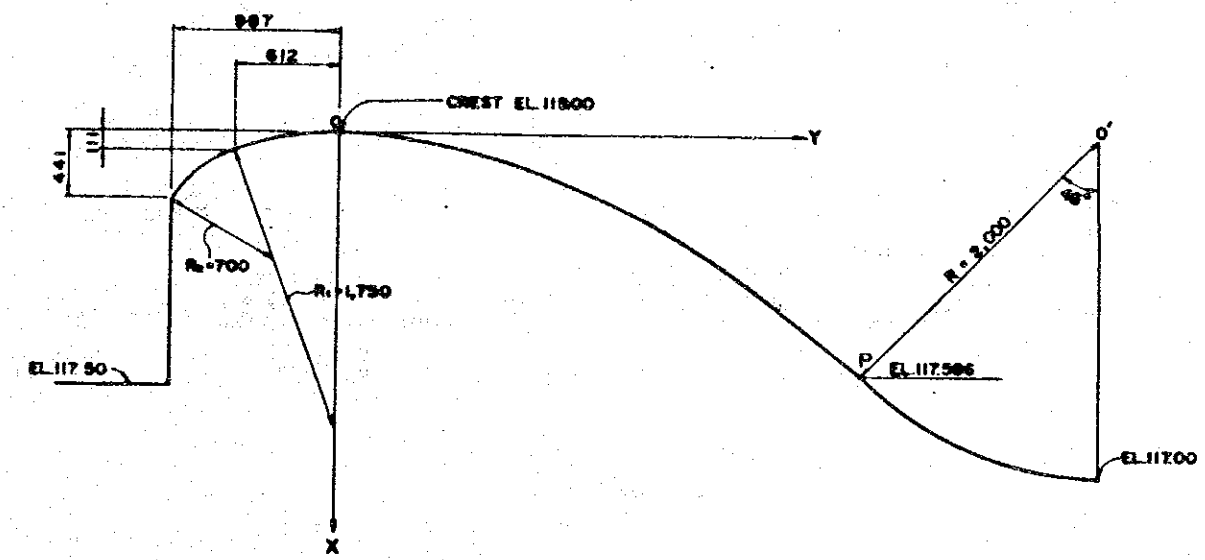
SHIMAL DAM PROJECT IN THE UNITED ARAB EMIRATES	
Cross Section (2)	
DRW. NO: 6	TEAM LEADER: H
SANYU CONSULTANTS INC.	



LONGITUDINAL PROFILE
SCALE 1:50



CREST
SCALE 1:50



X-Y DIMENSIONS

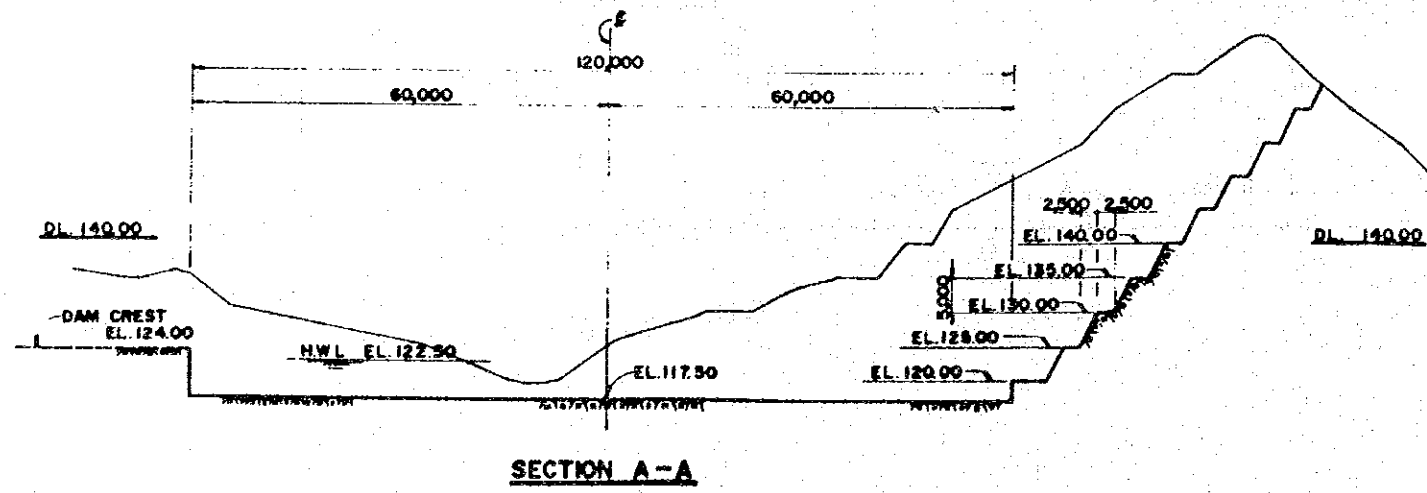
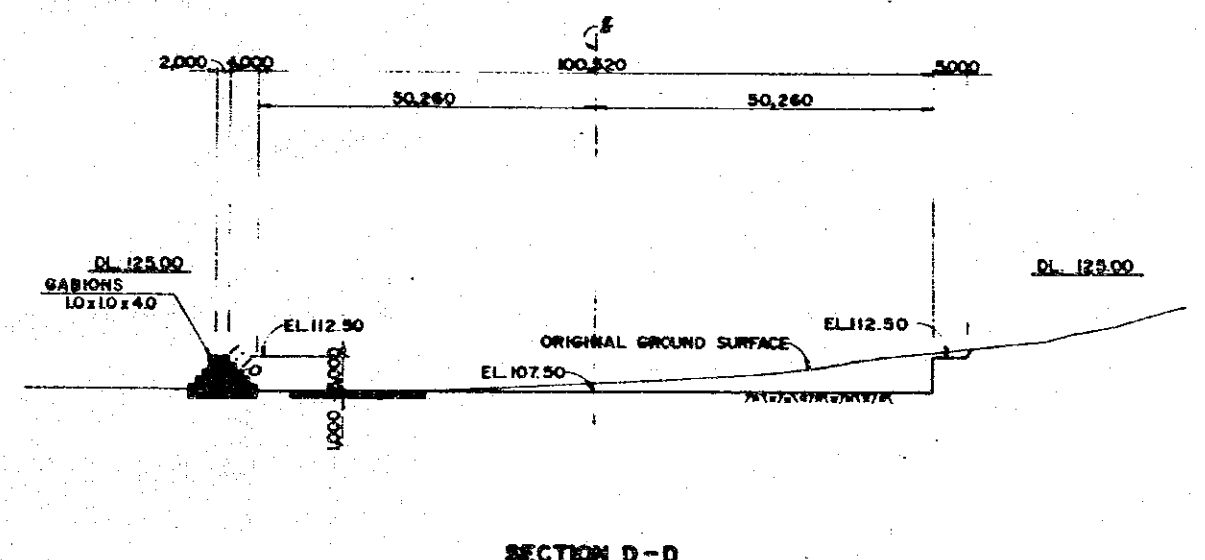
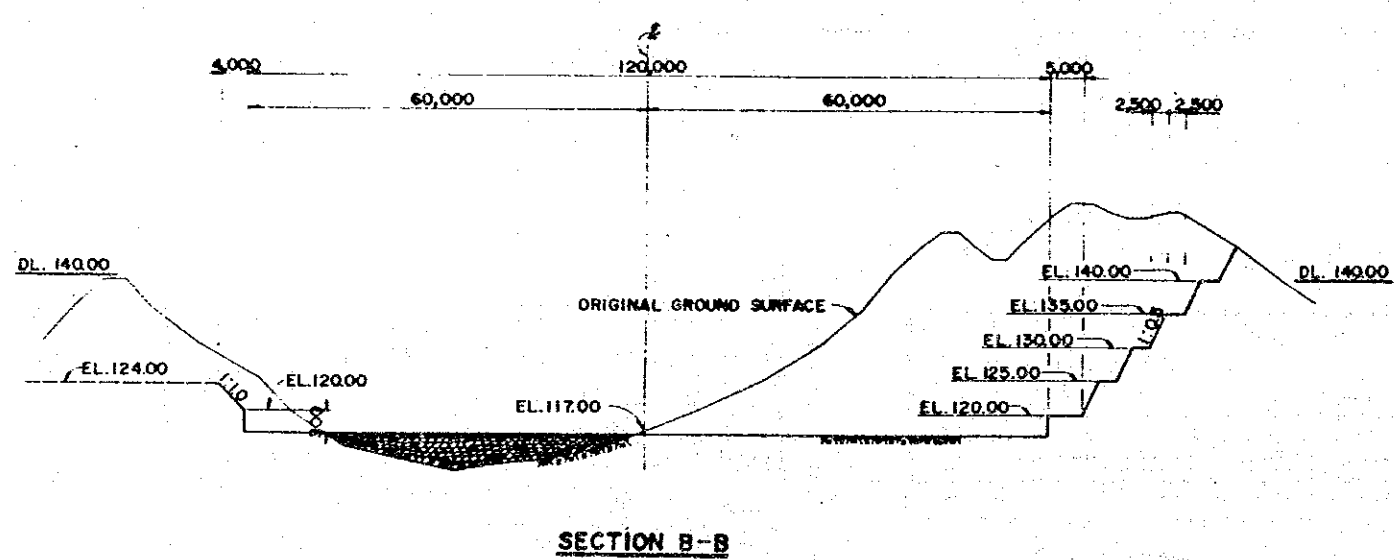
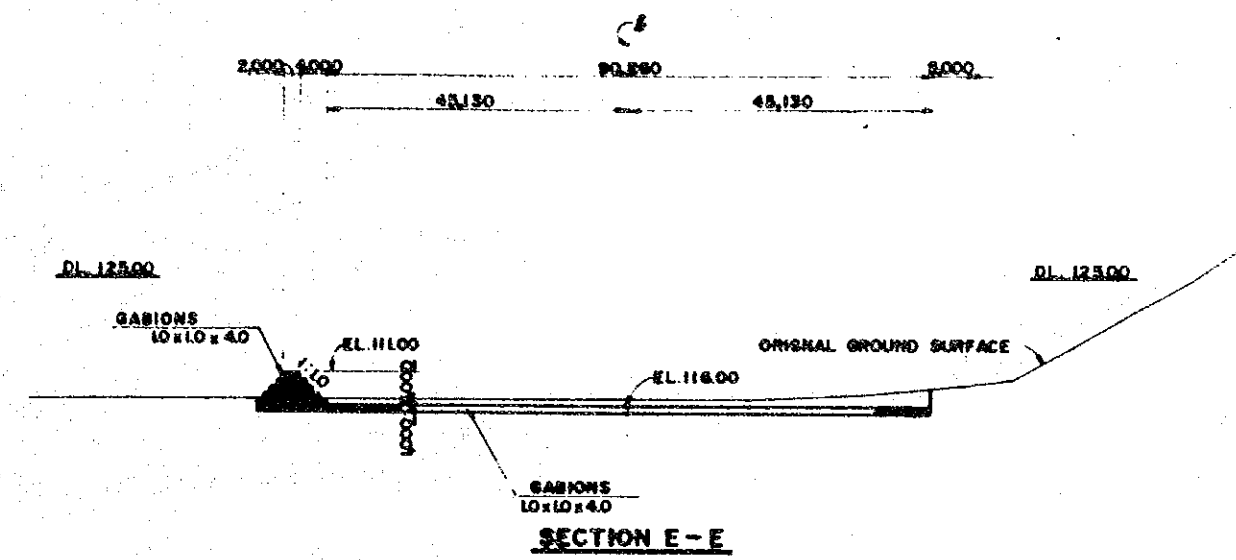
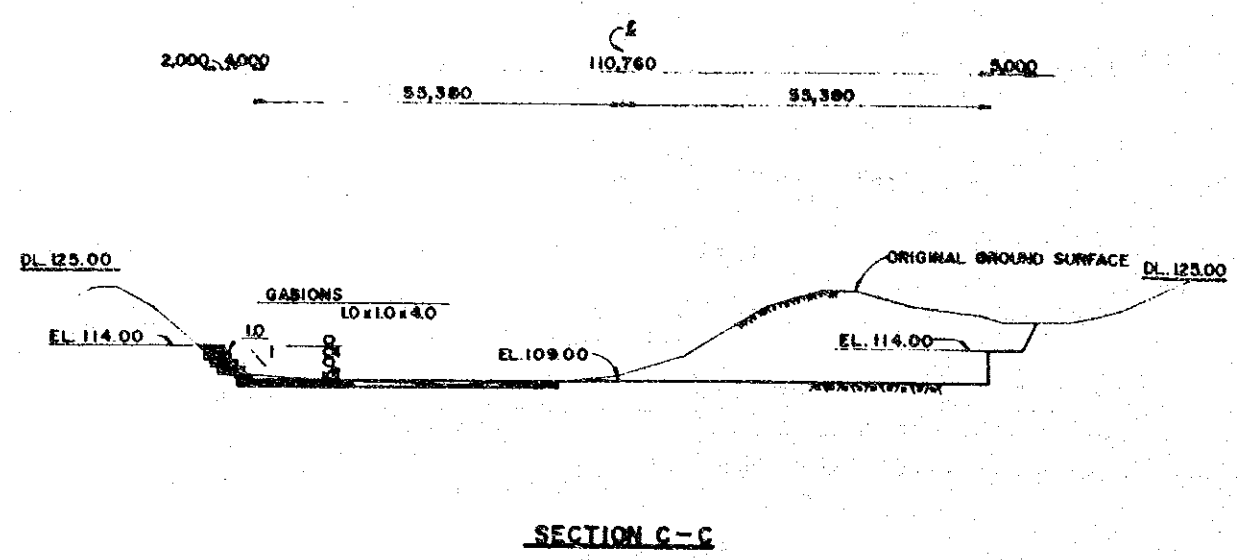
X	0	400	1,000	1,500	2,000	2,800	3,000	XP
Y	0	32	172	305	621	939	1,316	1,444

SCALE 1:20

NOTES

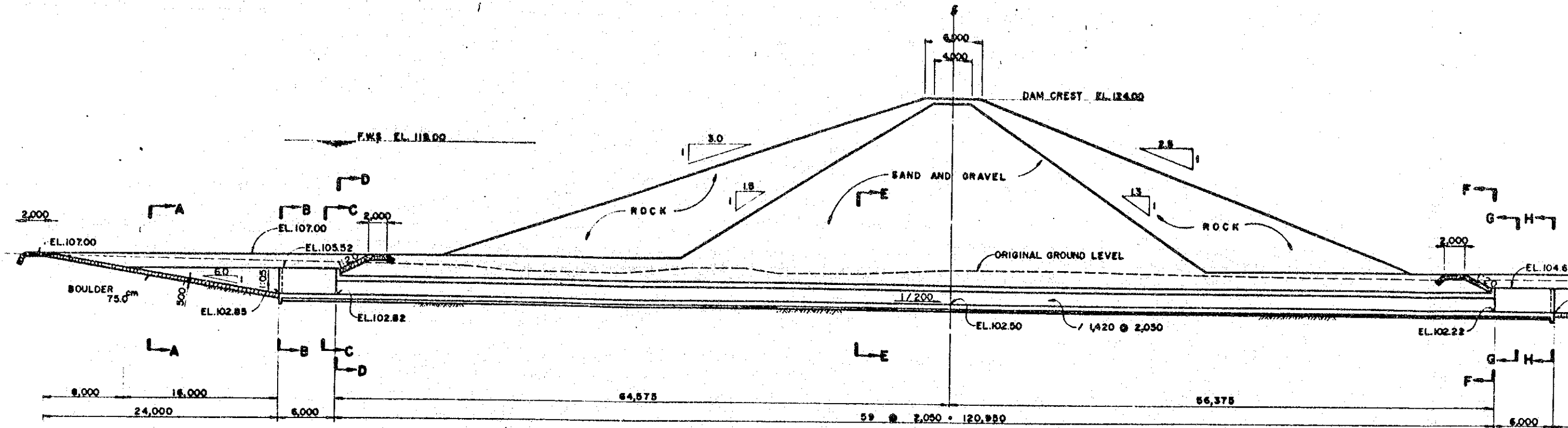
1. ALL DIMENSIONS ARE GIVEN IN MILLIMETERS.

SHIMAL DAM PROJECT IN THE UNITED ARAB EMIRATES	
Spill-Way	
DRW.NO: 7	TEAM LEADER: JJ
SANYU CONSULTANS INC.	

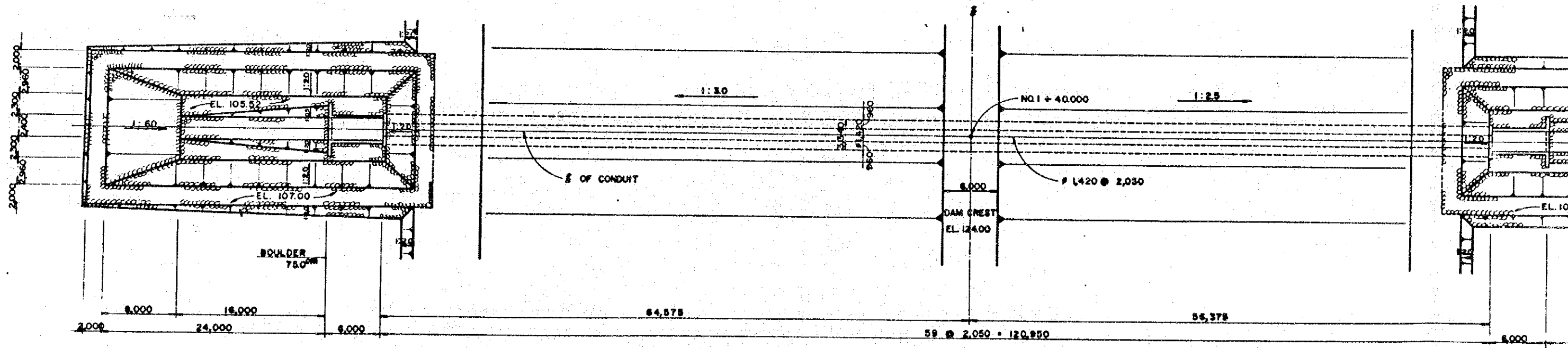


NOTES
 1. ALL DIMENSIONS ARE GIVEN IN MILLI-METERS.

SHIMAL DAM PROJECT IN THE UNITED ARAB EMIRATES	
Cross Section of Spill-Way	
DRW.NO: 8	TEAM LEADER: <i>st</i>
SANYU CONSULTANS INC.	



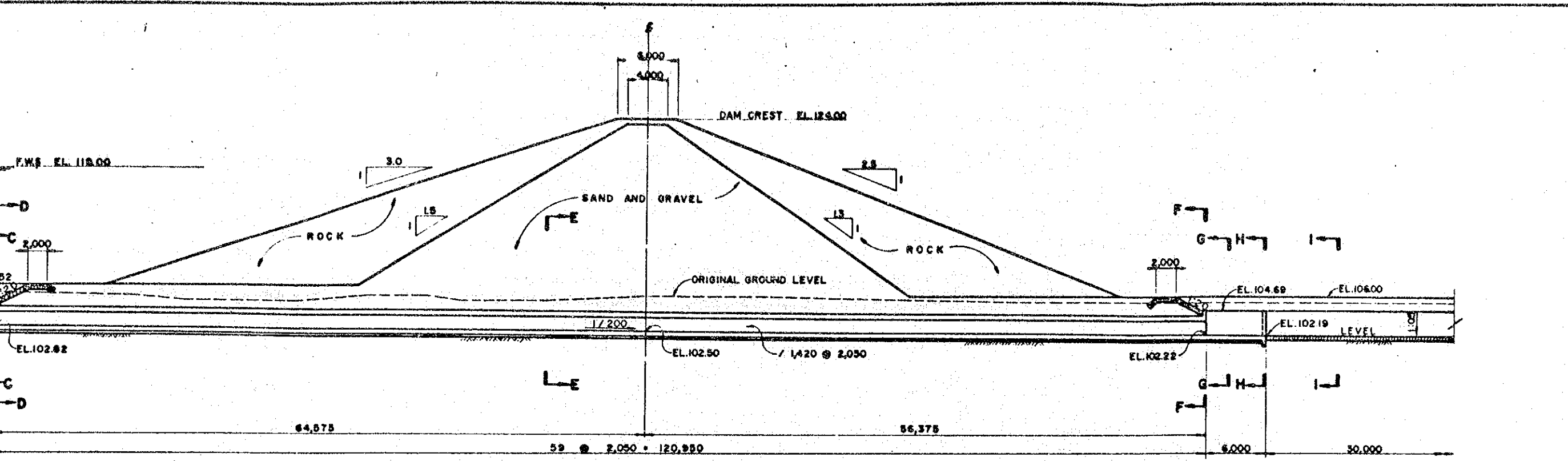
LONGITUDINAL PROFILE
SCALE 1:200



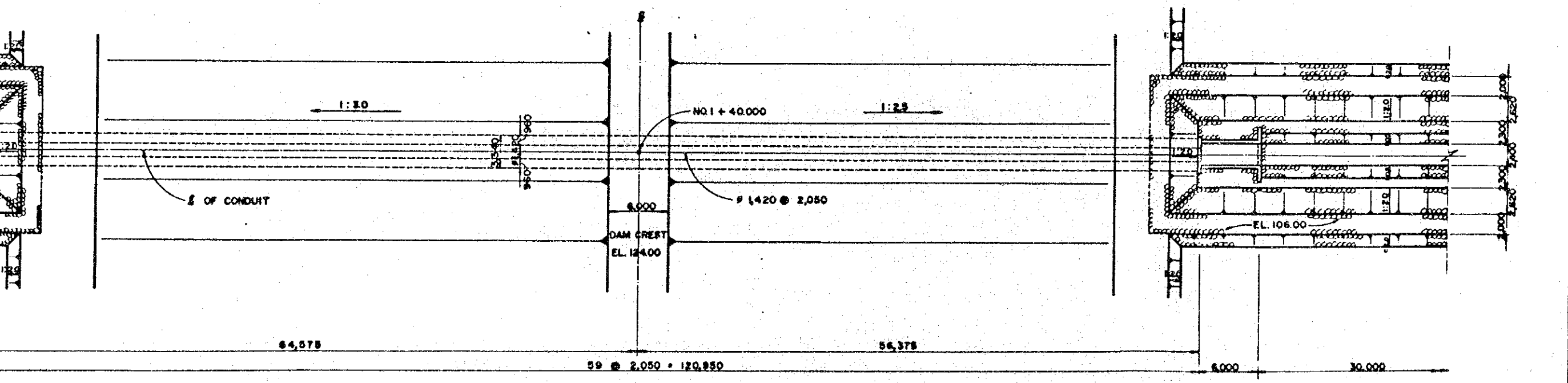
PLAN
SCALE 1:200

NOTES
1. ALL DIMENSIONS ARE GIVEN IN MILLIMETERS.

48-10



LONGITUDINAL PROFILE
SCALE 1:200



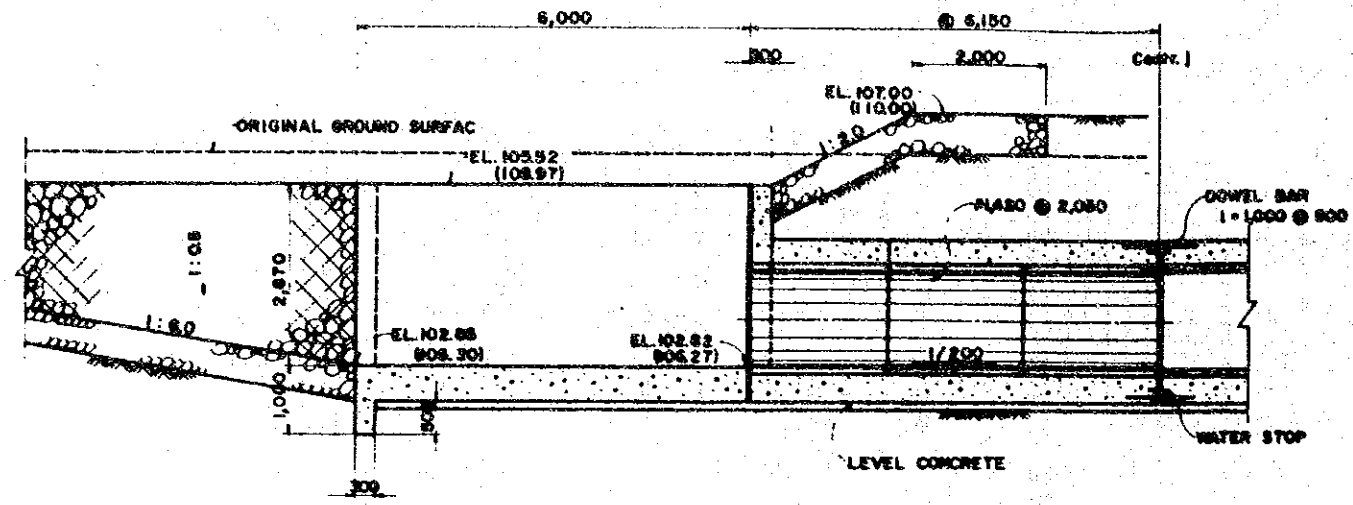
PLAN
SCALE 1:200

NOTES
1. ALL DIMENSIONS ARE GIVEN IN MILLIMETERS.

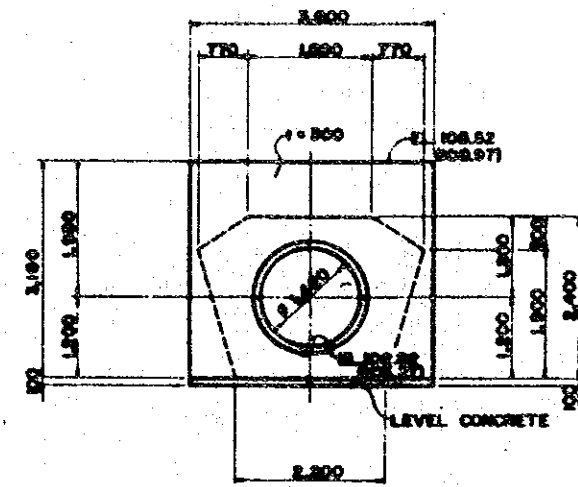
SHIMAL DAM PROJECT
IN THE
UNITED ARAB EMIRATES

No.1 Conduit Works
(Plan & Profile)

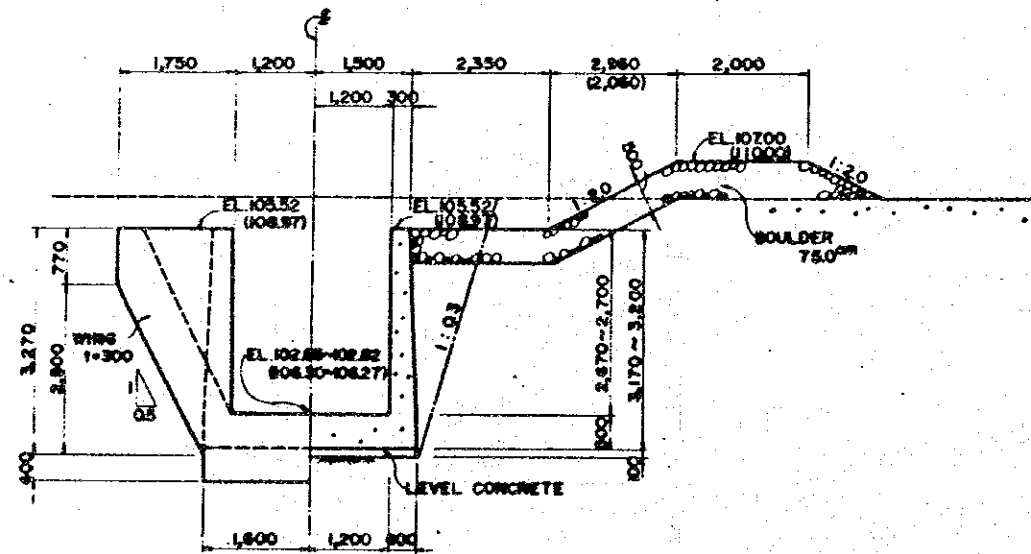
DRW.NO: 5 TEAM LEADER : 44
SANYU CONSULTANTS INC.



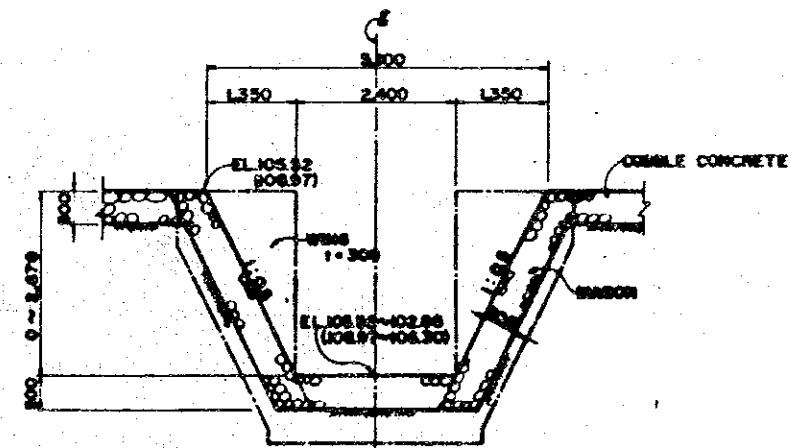
PROFILE
SCALE 1:50



SECTION D-D
SCALE 1:50



SECTION B-B **SECTION C-C**
SCALE 1:50

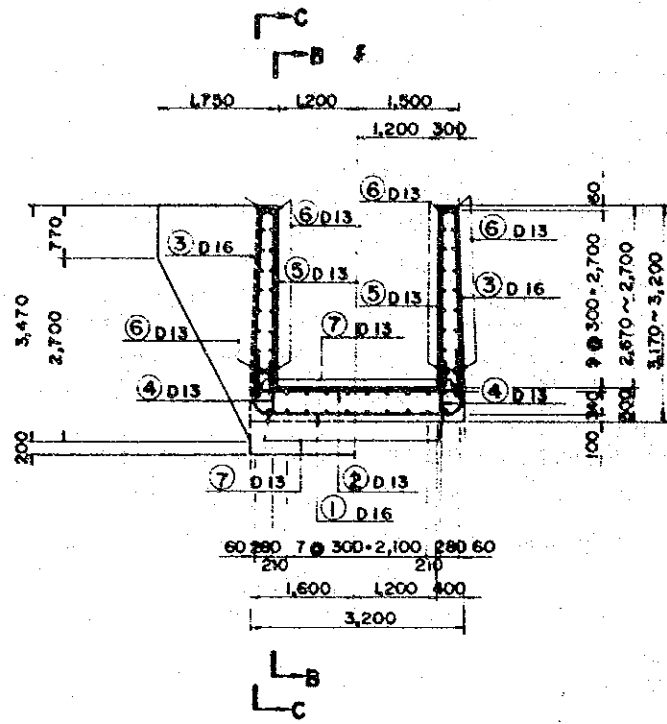


SECTION A-A
SCALE 1:50

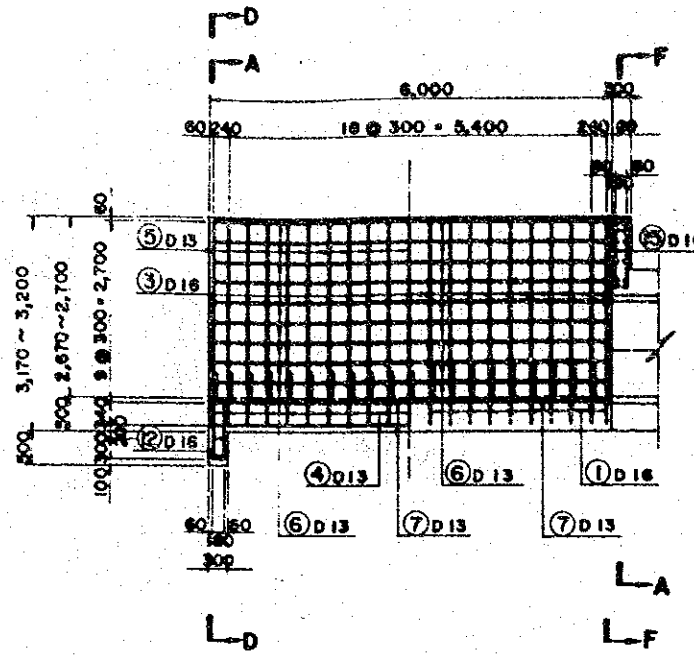
NOTES

1. ALL DIMENSIONS ARE GIVEN IN MILLIMETERS.
2. SIZE OF NO.2 CONDUIT IS SHOWN IN ().

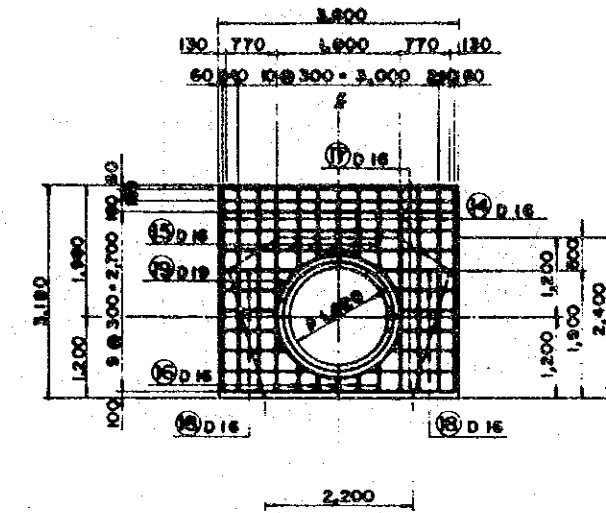
SHIMAL DAM PROJECT IN THE UNITED ARAB EMIRATES	
Profile of No.1 & No.2 Conduit (Inlet)	
DRW.NO:11	TEAM LEADER : 11
SANYU CONSULTANS INC.	



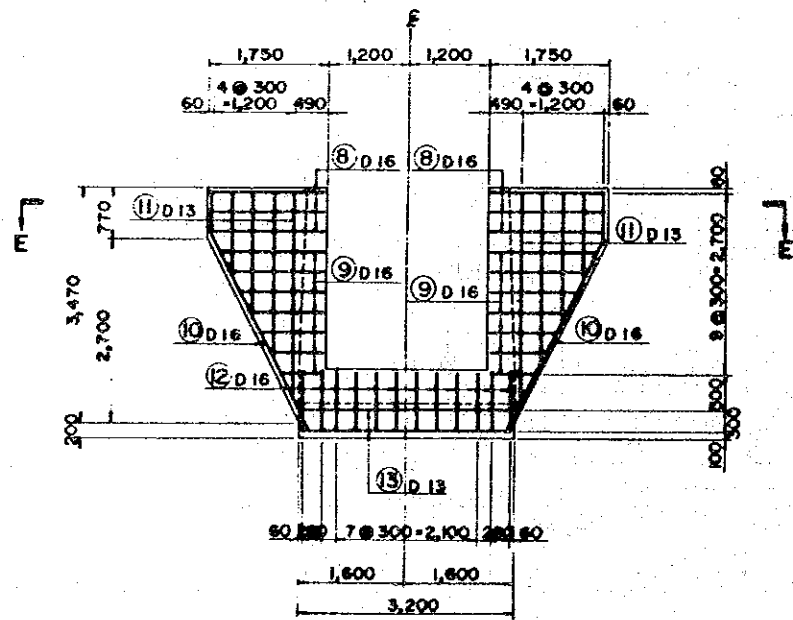
SECTION A-A



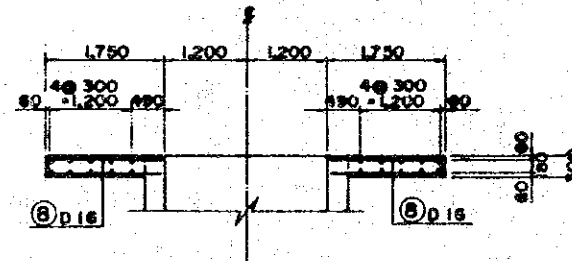
SECTION B-B SECTION C-C



SECTION F-F



SECTION D-D



SECTION E-E

NOTES

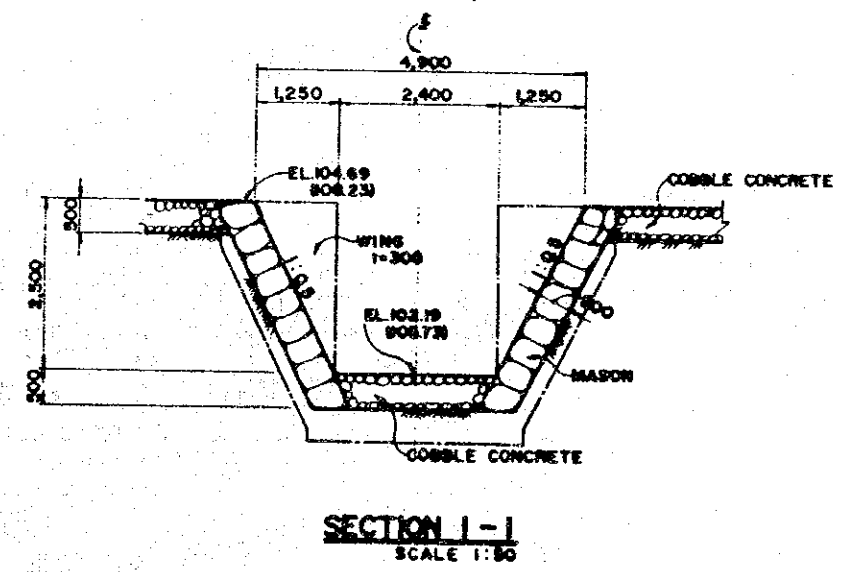
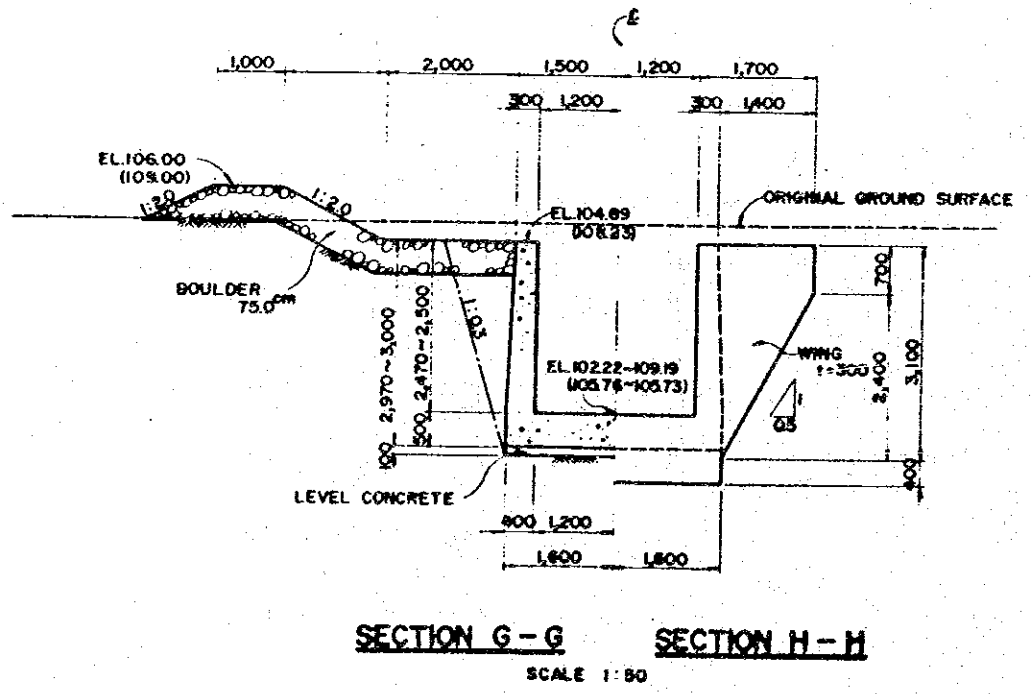
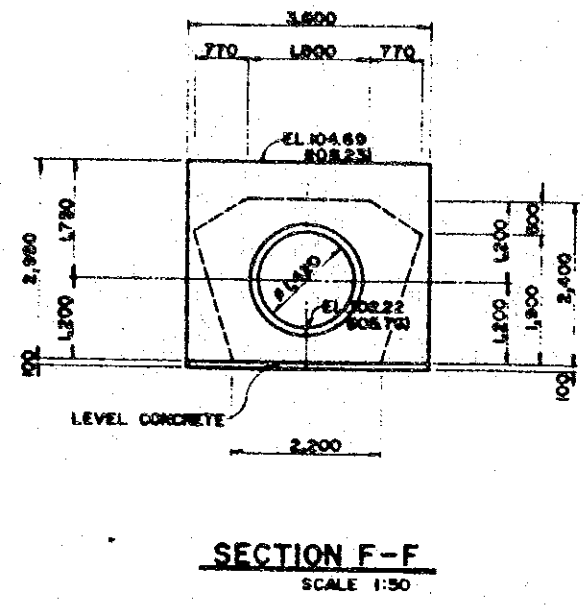
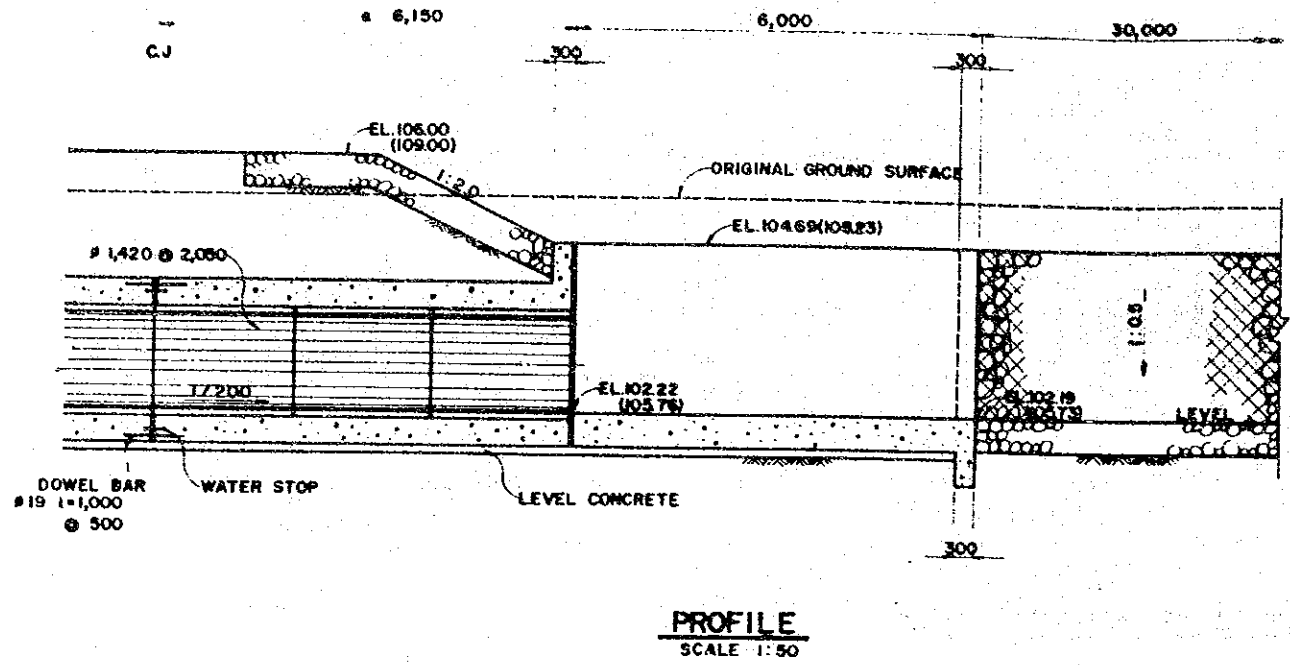
- ALL DIMENSIONS ARE GIVEN IN MILLI-METERS.
- SCALE OF EACH SECTION IS GIVEN IN 1:50.

SHIMAL DAM PROJECT
IN THE
UNITED ARAB EMIRATES

Inlet Works of No.1 & No.2
Conduit (Reinforcement)

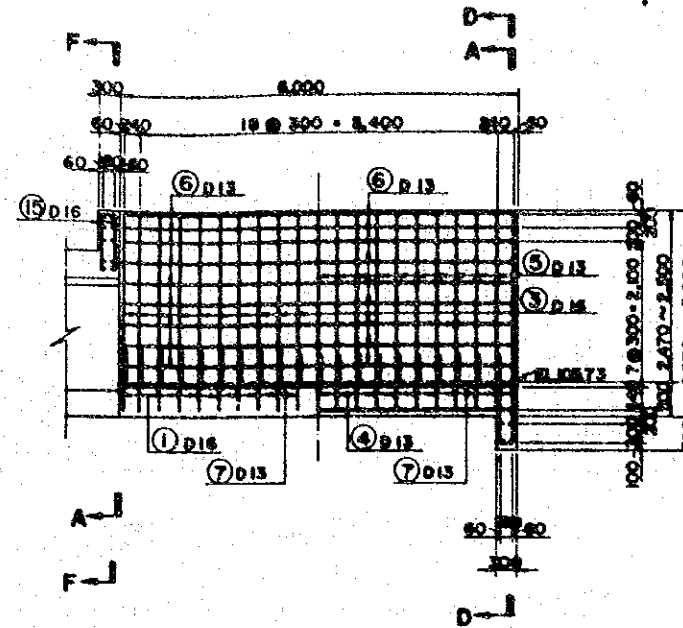
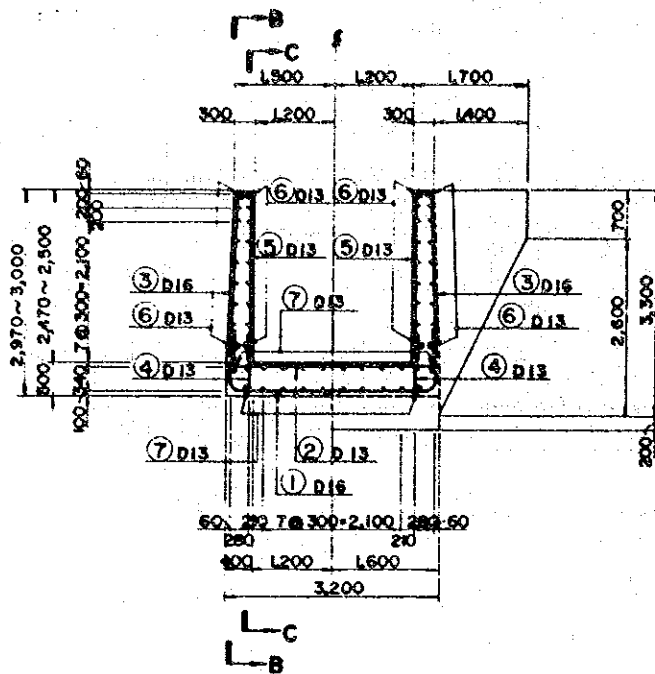
DRW. NO: 12 TEAM LEADER: H

SANYU CONSULTANS INC.

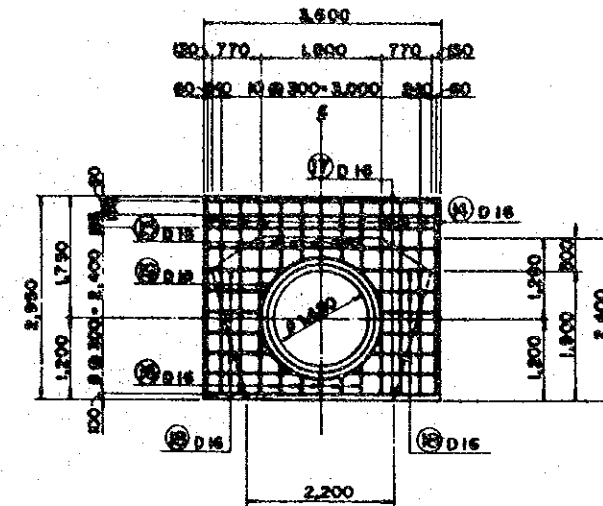


- NOTES**
1. ALL DIMENSIONS ARE GIVEN IN MILLIMETERS.
 2. SIZE OF NO.2 CONDUIT IS SHOWN IN ()

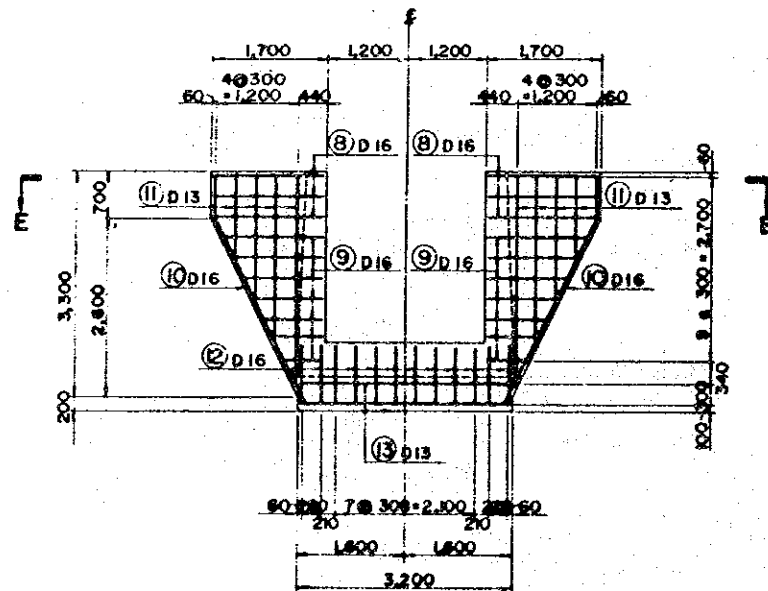
SHIMAL DAM PROJECT IN THE UNITED ARAB EMIRATES	
Profile of No.1 & No.2 Conduit (Outlet)	
DRW.NO:13	TEAM LEADER: 4
SANTU CONSULTANS INC.	



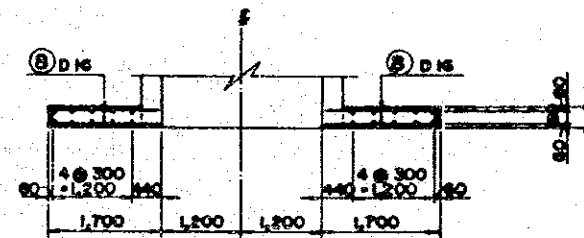
SECTION B-B SECTION C-C



SECTION F-F



SECTION D-D

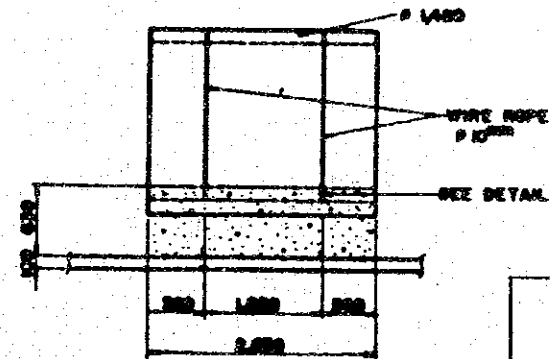
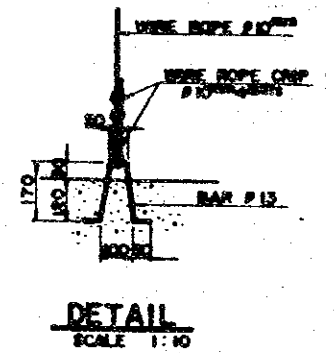
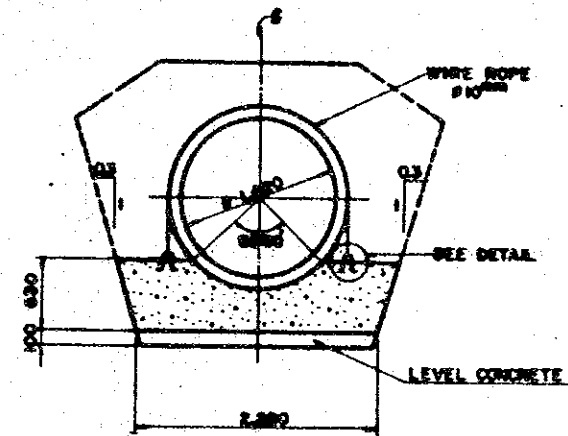
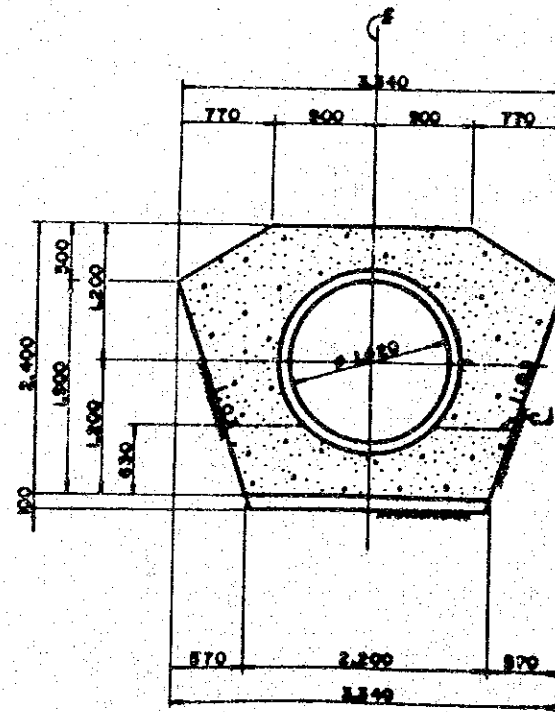
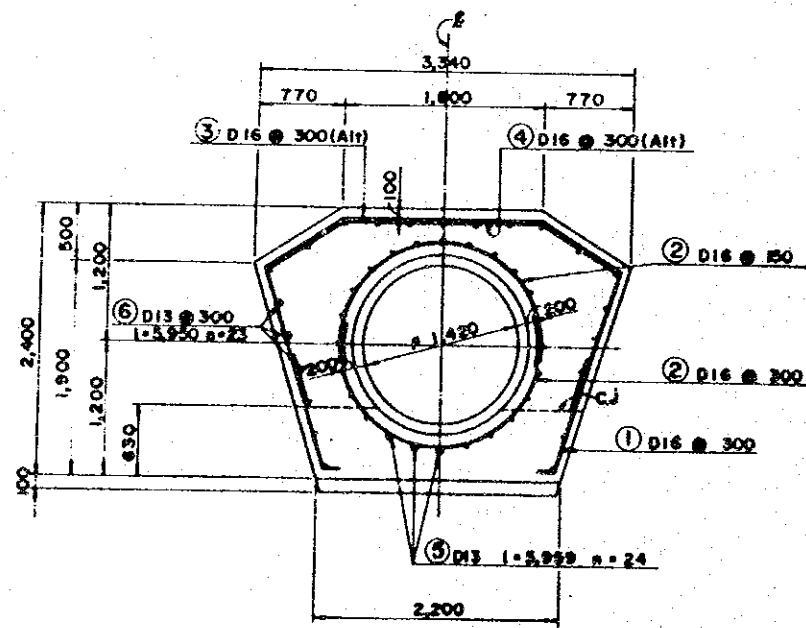
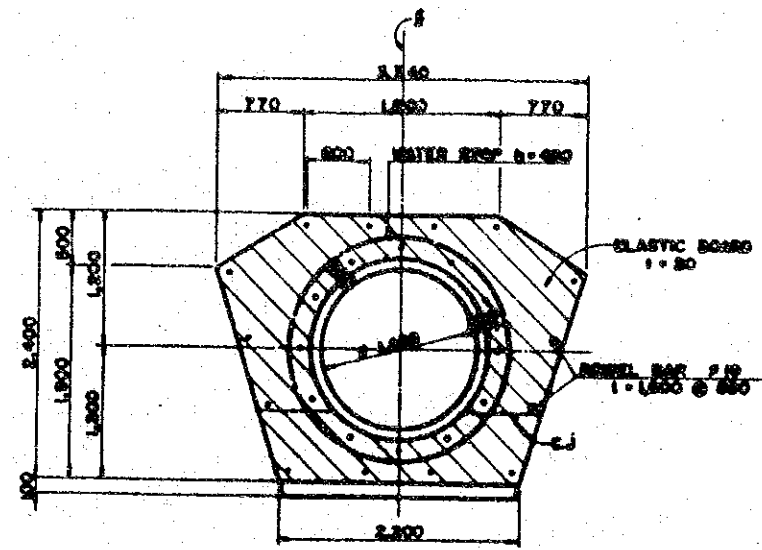
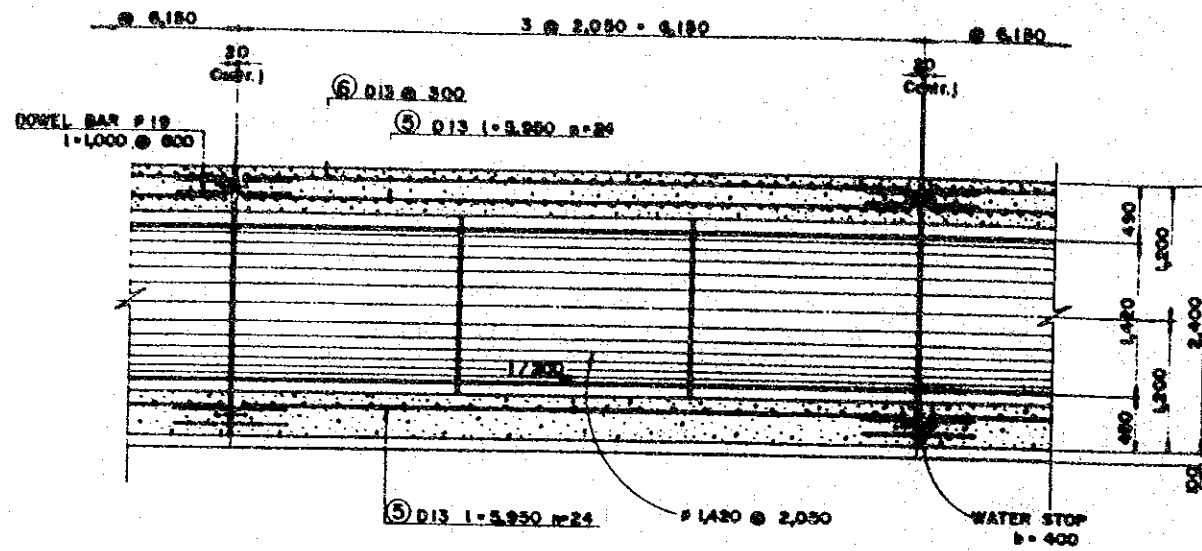


SECTION E-E

NOTES

1. ALL DIMENSIONS ARE GIVEN IN MILLIMETERS.
2. SCALE OF EACH SECTION IS GIVEN IN 1:50.

SHIMAL DAM PROJECT IN THE UNITED ARAB EMIRATES	
Outlet Works of No.1 & No.2 Conduit (Reinforcement)	
DRW. NO: 14	TEAM LEADER: H
SANYU CONSULTANTS INC.	



NOTES

1. ALL DIMENSIONS ARE GIVEN IN MILLIMETERS.

SHIMAL DAM PROJECT
IN THE
UNITED ARAB EMIRATES

Conduit of No.1 & No.2
(Reinforcement)

DRW.NO:15 TEAM LEADER: JH
SANYU CONSULTANS INC.

