

# DRAWING

- 1 ). APPROACH ROAD
- 2 ). BUILDINGS
- 3 ). MAIN DAM
- 4 ). SPILLWAY
- 5 ). INTAKE / OUTLET STRUCTURE
- 6 ). IRRIGATION CHANNEL

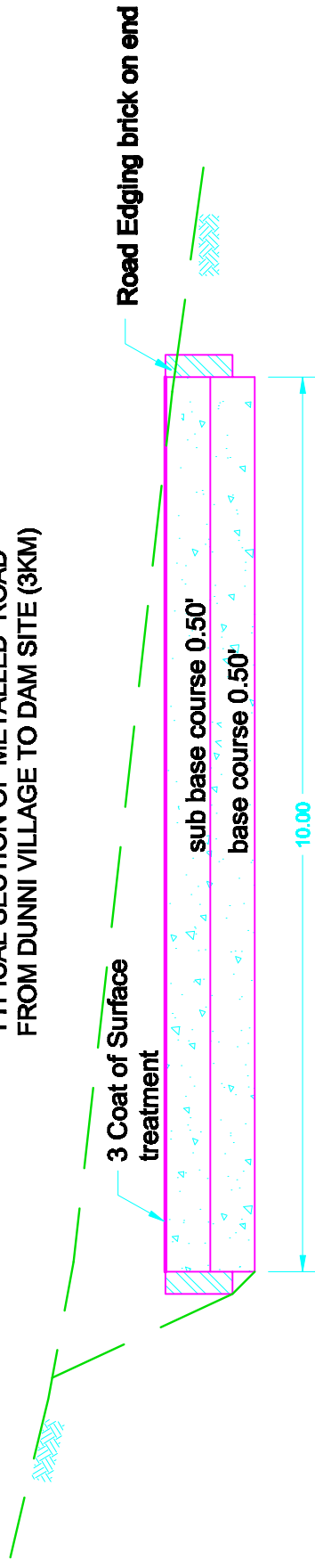
# APPROACH ROAD

# RAMMAK DAM SITE

TYPICAL SECTION OF APPROACH ROAD

SCALE H & V 1" = 2.5'

TYPICAL SECTION OF METALLED ROAD  
FROM DUNNI VILLAGE TO DAM SITE (3KM)



Water Sector Capacity Building and Advisory Services Project  
(PMPIU)

Ministry of Water & Power Government of Pakistan

RAMMAK DAM SITE ( KPK REGION )

NAME OF DRAWING : TYPICAL SECTION OF APPROACH ROAD

GENTEK CONSULT LTD. TURKEY  
In Association with  
AAB (PVT.) LTD. PAKISTAN

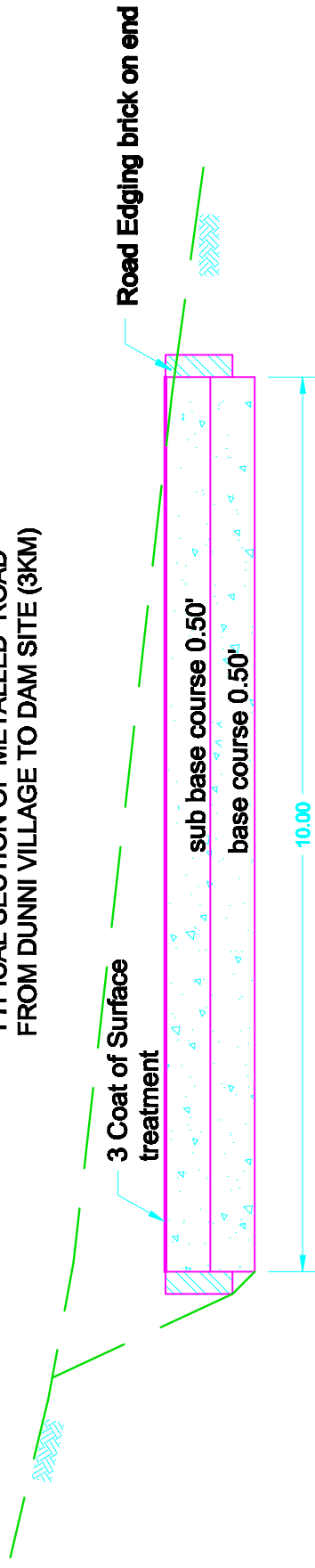
Drawing No. R . 1

# RAMMAK DAM SITE

TYPICAL SECTION OF APPROACH ROAD

SCALE H & V 1" = 2.5'

TYPICAL SECTION OF METALLED ROAD  
FROM DUNNI VILLAGE TO DAM SITE (3KM)



Water Sector Capacity Building and Advisory Services Project  
(PMPIU)

Ministry of Water & Power Government of Pakistan

RAMMAK DAM SITE ( KPK REGION )

NAME OF DRAWING : TYPICAL SECTION OF APPROACH ROAD

GENTEK CONSULT LTD. TURKEY  
In Association with  
AAB (PVT.) LTD. PAKISTAN

Drawing No. R . 1

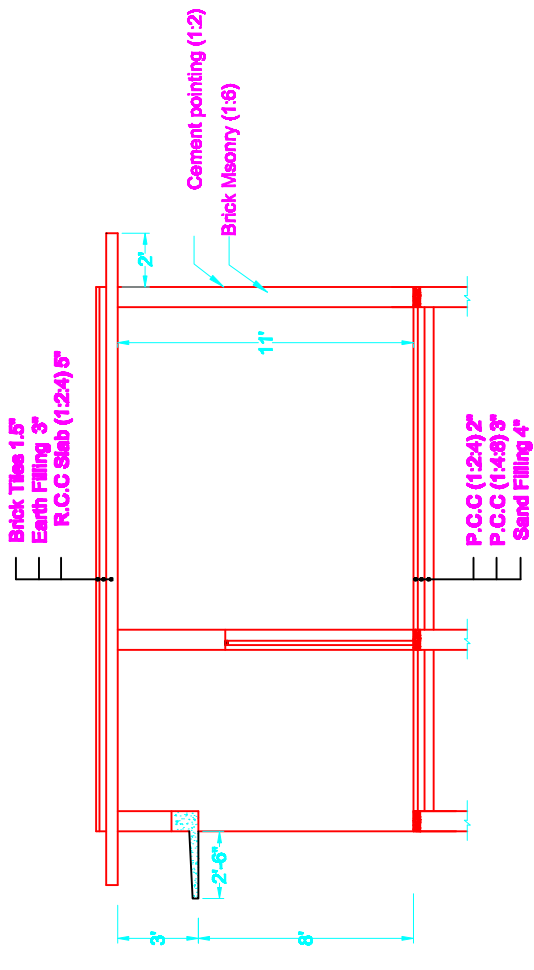
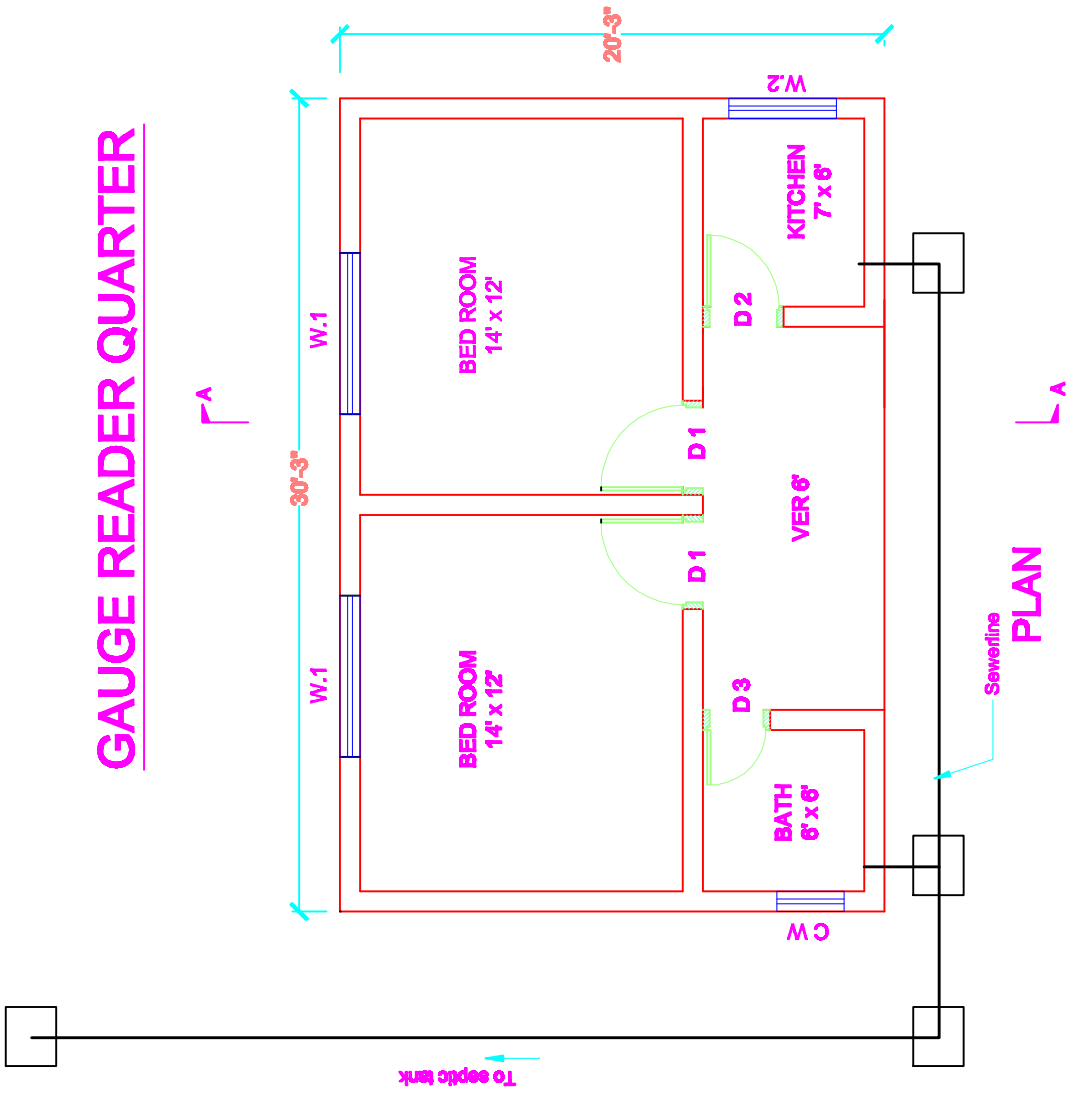


# BUILDINGS

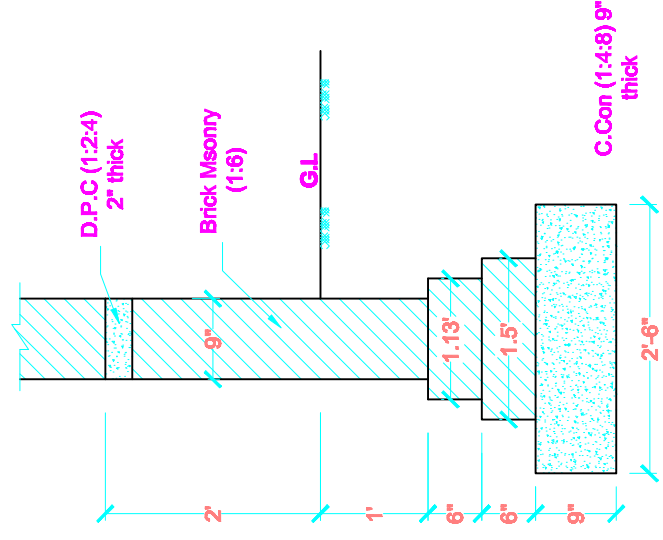
# RAMMAK DAM SITE BUILDINGS

SCALE = 1"=8'

## GAUGE READER QUARTER



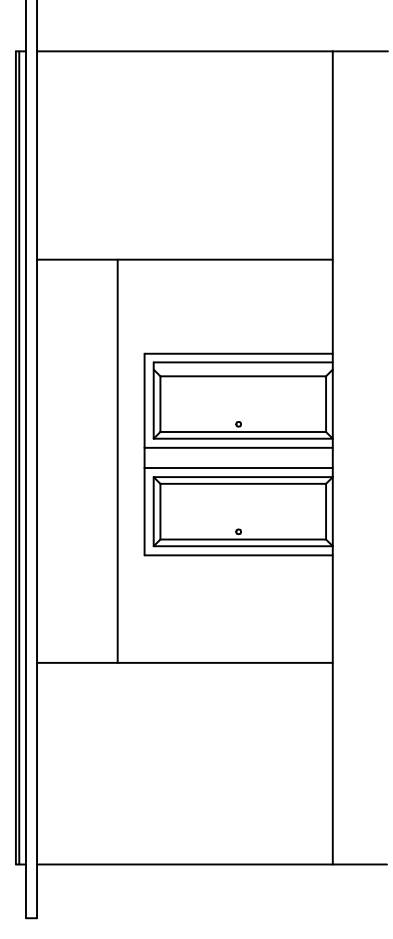
SECTION A-A



DETAIL OF FOUNDATION  
SCALE = 1"=2'

COVERED AREA 612 SQ.FT

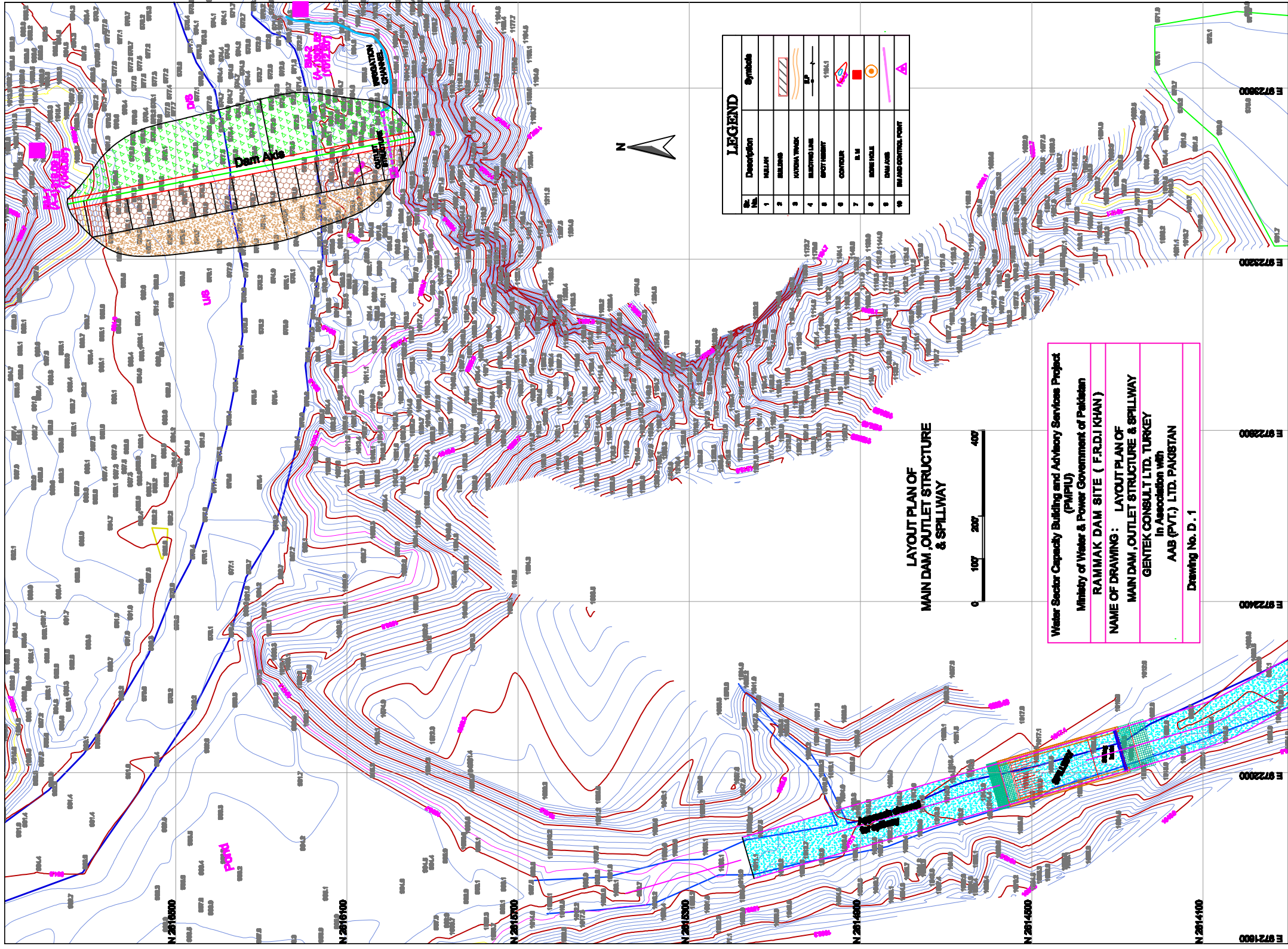
SCHEDULE OF OPENINGS		
TYPE	SIZE	REMARKS
DOORS	D 1	3'-6" X 7'-0" 2 NOS
	D 2	3'-0" X 7'-0" 1 NOS
	D 3	2'-6" X 7'-0" 1 NOS
WINDOW	W 1	6'-0" X 4'-0" 2 NOS
	W 2	4'-0" X 4'-0" 1 NOS
	CW	2'-5" X 2'-0" 1 NOS



ELEVATION

Water Sector Capacity Building and Advisory Services Project  
(PMPIU)  
Ministry Water Power, Government of Pakistan  
RAMMAK DAM SITE ( F.R.D.I KHAN )  
NAME OF DRAWING : Gauge Reader Quarter  
GENTEK CONSULT LTD COMPANY, TURKEY  
In Association with  
AAB (PVT.) LTD. PAKISTAN  
Drawing No. B.1 (2/2)

# MAIN DAM



Sl. No.	Description	Symbol
1	WALL	▬▬▬▬▬▬
2	WALLING	▬▬▬▬▬▬
3	INTERNAL WALL	▬▬▬▬▬▬
4	SLUICED LANE	▬▬▬▬▬▬
5	SPILLWAY	▬▬▬▬▬▬
6	CONTROL	▬▬▬▬▬▬
7	S.M.	▬▬▬▬▬▬
8	WING WALL	▬▬▬▬▬▬
9	DAM AXIS	▬▬▬▬▬▬
10	SEA AND CONTROL POINT	▬▬▬▬▬▬

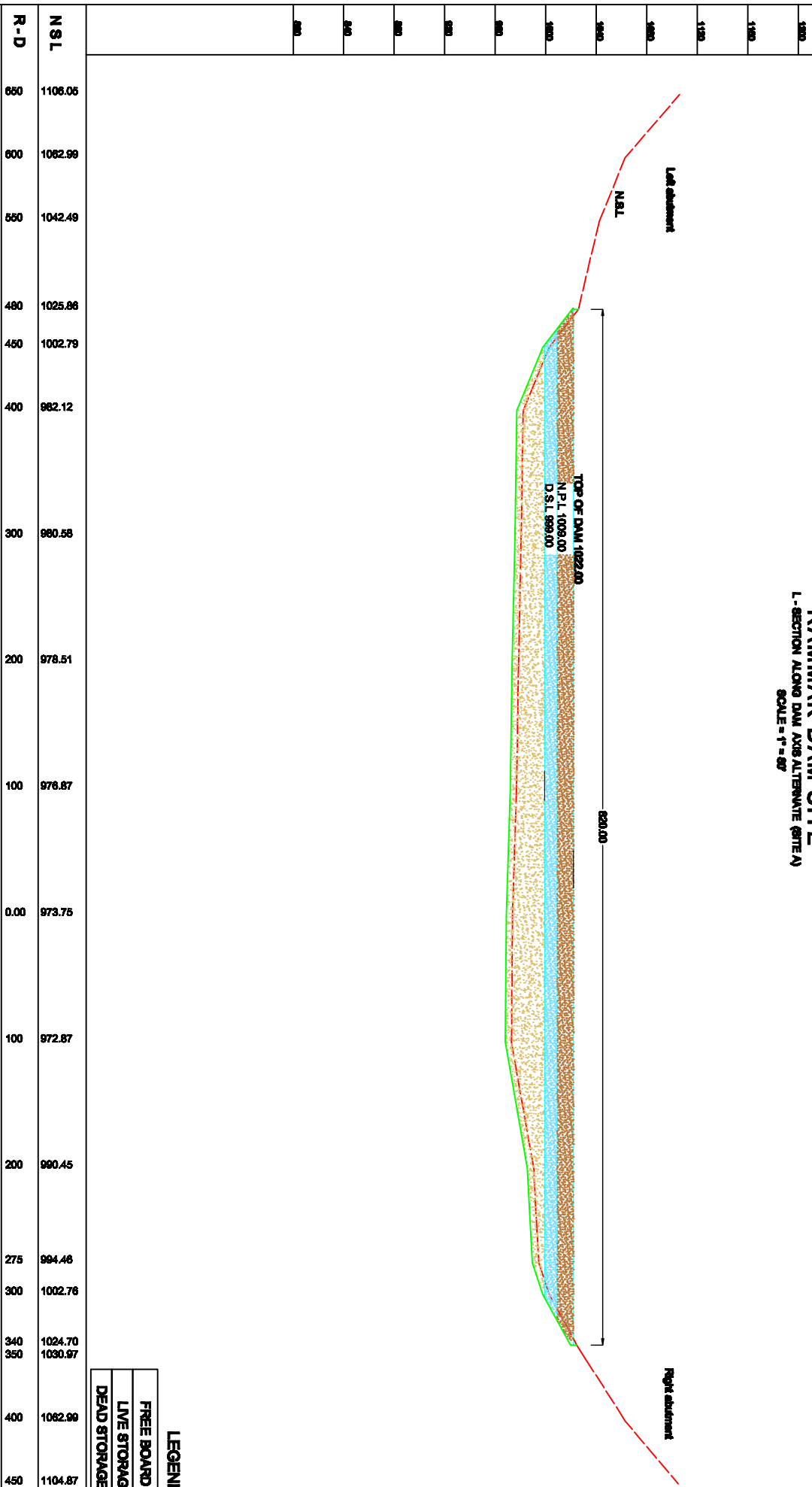


LAYOUT PLAN OF  
MAIN DAM, OUTLET STRUCTURE  
& SPILLWAY



Water Sector Capacity Building and Advisory Services Project  
(PPIP/10)  
Ministry of Water & Power Government of Pakistan  
RAMMAK DAM SITE ( F.R.D.I KHAN )  
NAME OF DRAWING : LAYOUT PLAN OF  
MAIN DAM, OUTLET STRUCTURE & SPILLWAY  
GENTEK CONSULT LTD. TURKEY  
In Association with  
AAB (PVT.) LTD. PAKISTAN  
Drawing No. D - 1

**RAMMAK DAM SITE**  
 L-SECTION ALONG DAM AXIS ALTERNATE (SITE A)  
 SCALE = 1" = 60'

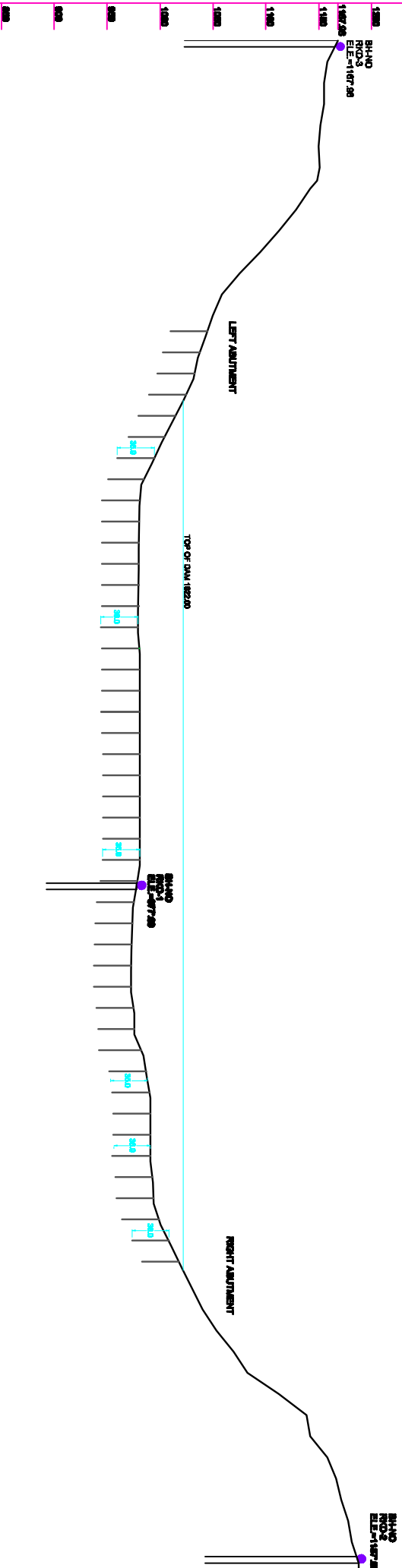


**LEGEND:**

	FREE BOARD
	LIVE STORAGE
	DEAD STORAGE

**Water Sector Capacity Building and Advisory Services Project (PAFRIU)**  
 Ministry of Water & Power Government of Pakistan  
**RAMMAK DAM SITE ( F.R.DJ KHAN )**  
**NAME OF DRAWING :**  
 L-SECTION ALONG DAM AXIS ALTERNATE (SITE A)  
 GENTEK CONSULT LTD, TURKEY  
 In Association with  
 AAB (PVT.) LTD, PAKISTAN  
 Drawing No. D - 2

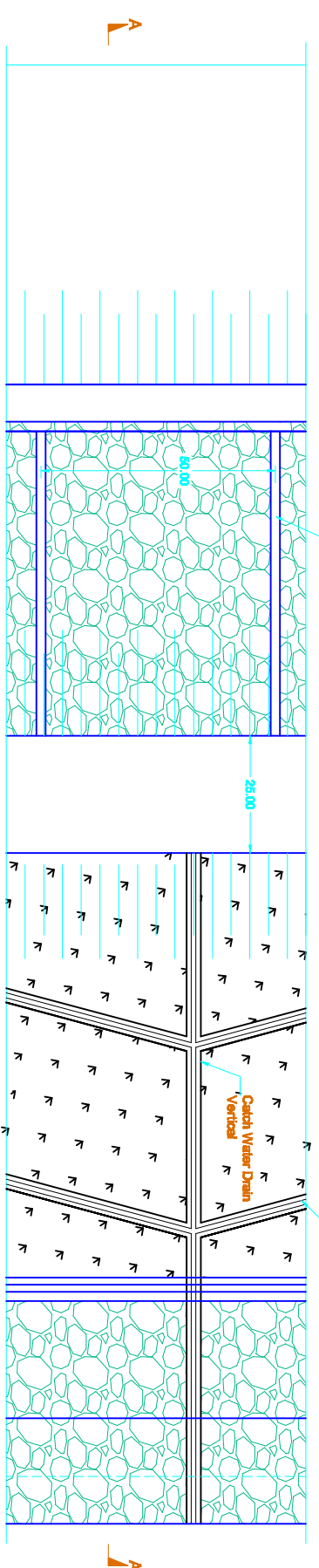
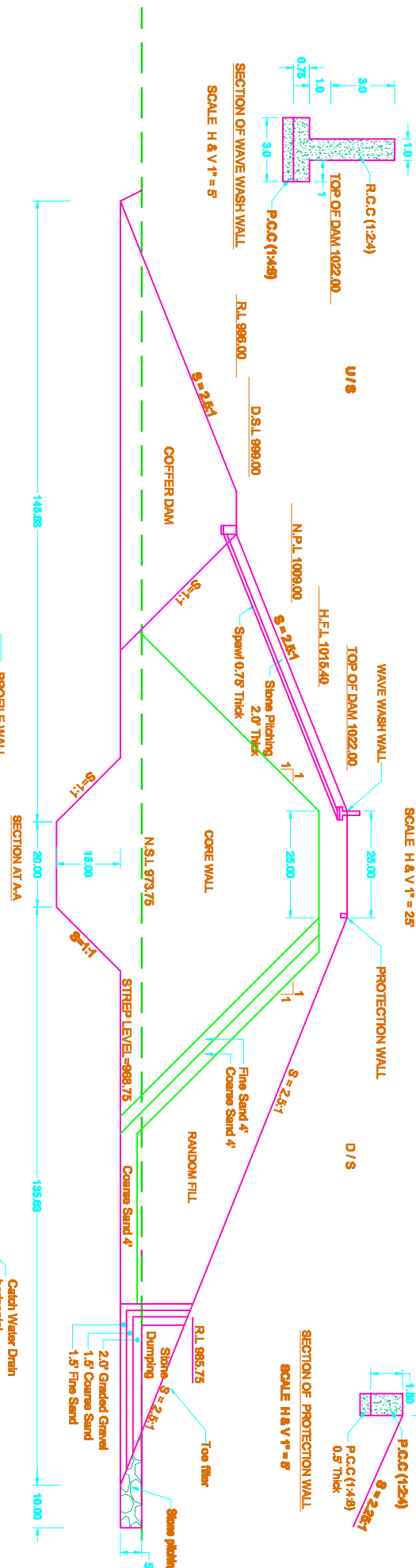
**R A M A K D A M S I T E**  
**GROUTING PLAN**  
**SCALE 1" = 100'**



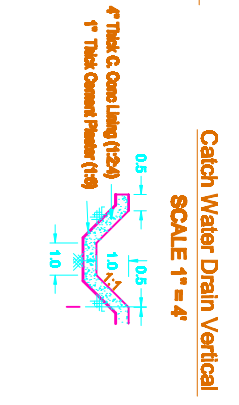
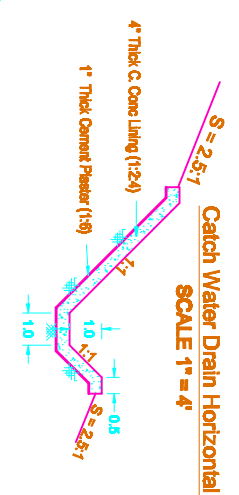
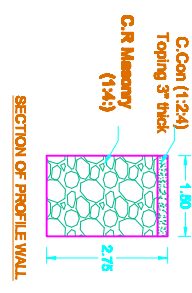
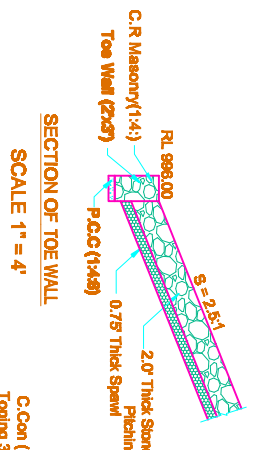
PLAN SHOWING GROUTING CURTAIN

Water Sector Capacity Building and Advisory Services Project (PAFIPU) Ministry of Water & Power Government of Pakistan <b>RAMNAK DAM SITE (FRDI KHAN)</b>
<b>NAME OF DRAWING :</b> GROUTING PLAN
<b>GENTEK CONSULT LTD, TURKEY</b> In Association with <b>AAB (PVT.) LTD, PAKISTAN</b>
Drawing No. D . 3

**RAMMAK DAM SITE**  
**TYPICAL SECTION OF MAIN DAM**  
 SCALE H & V 1" = 25'



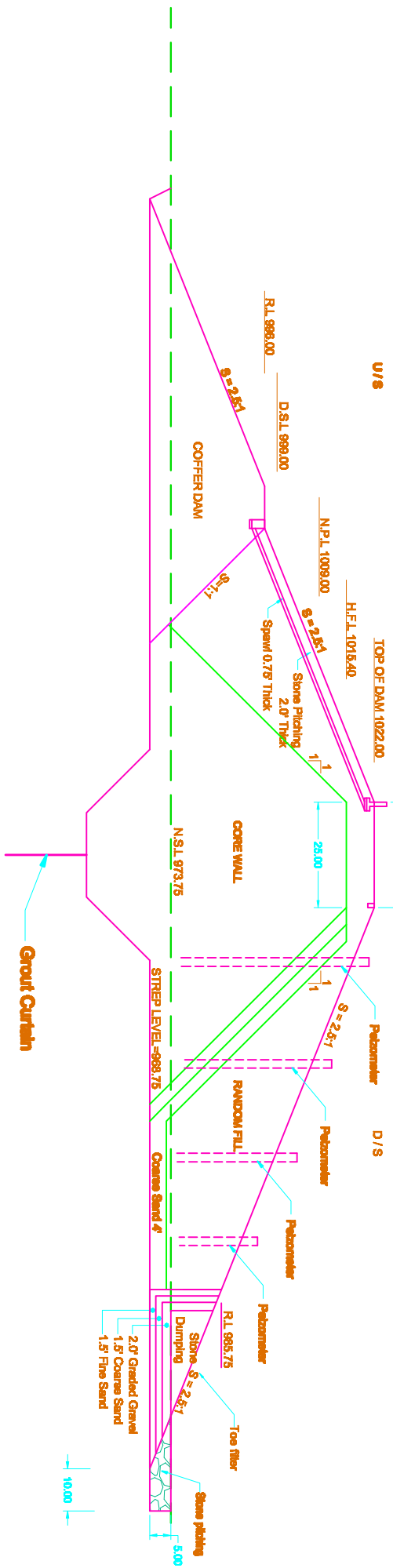
**PLAN**



Water Sector Capacity Building and Advisory Services Project
Ministry of Water & Power Government of Pakistan
(PAFP/PU)
RAMMAK DAM SITE (FRDI KHAN)
NAME OF DRAWING : TYPICAL SECTION OF MAIN DAM
GENTEK CONSULT LTD, TURKEY
In Association with
AAB (PVT.) LTD. PAKISTAN
Drawing No. D. 4

**RAMNAK DAM SITE**

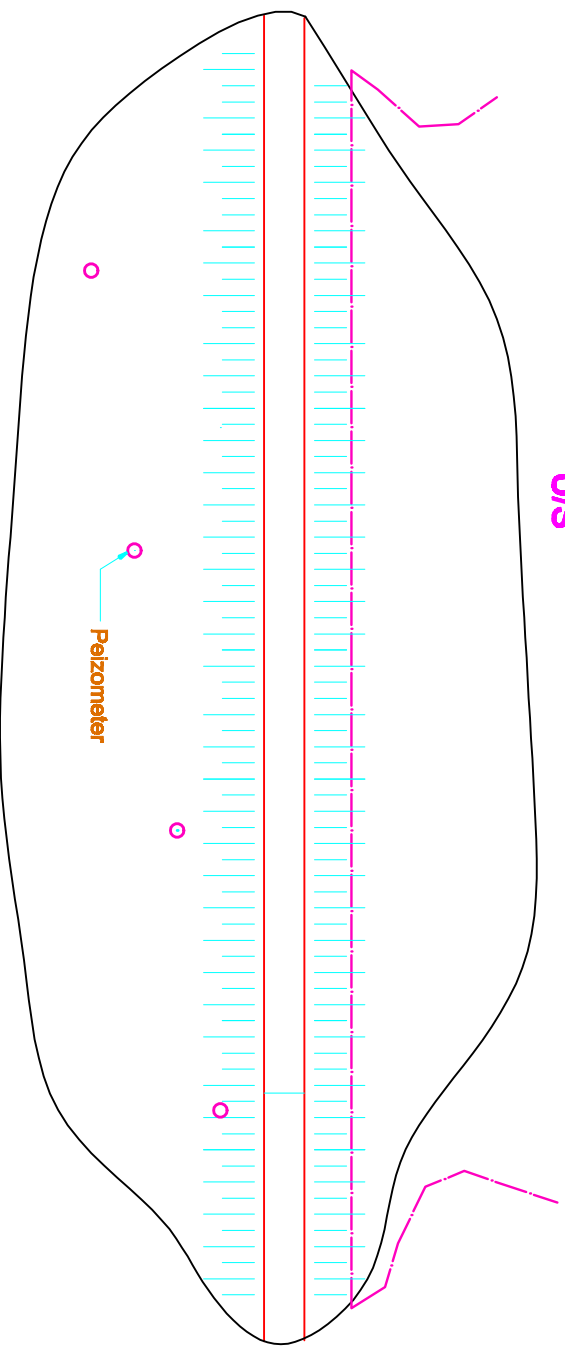
MAIN DAM  
INSTRUMENTATION  
SCALE H & V 1" = 25'



U/S



SECTION AT A-A



D/S



PLAN

Water Sector Capacity Building and Advisory Services Project

Ministry of Water & Power Government of Pakistan  
(PAFPU)

RAMNAK DAM SITE (FRDI, KHAN)

NAME OF DRAWING : MAIN DAM INSTRUMENTATION

GENTEK CONSULT LTD, TURKEY

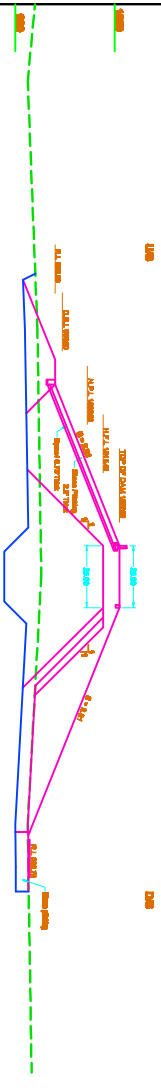
In Association with  
AAB (PVT.) LTD, PAKISTAN

Drawing No. D. 4. 1



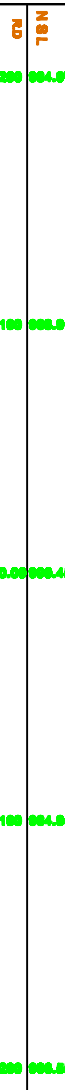


**RAMMAK DAM SITE**  
**X-SECTION OF MAIN DAM AT RD+ 200 R**  
**SCALE H & V 1"=40'**



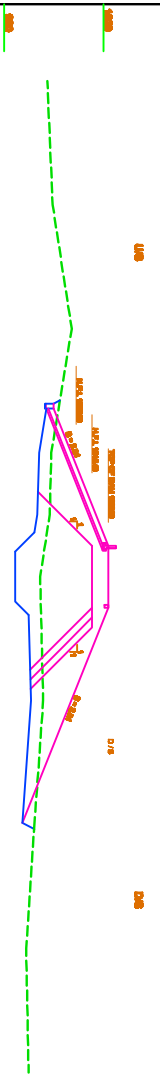
X-SECTION AREA	
1 STRIPPLING	1287.00 SQ
2 RANDOM FILL	1964.28 SQ
3 CORE WALL	1068.00 SQ
4 COFFER DAM	394.56 SQ
5 FINE SAND	414.88 SQ
6 COARSE SAND	108.00 SQ
7 STONE PITCHING	68.13 SQ
	1261.77 SQ

X-SECTION AREA	
8 TURNING	67.41
9 TOP FILLING	16.75
10 FINE FILLING	16.75
11 COARSE FILLING	16.75
12 FINE SAND FILLING	16.75
13 COARSE SAND FILLING	16.75
14 STONE PITCHING	16.75



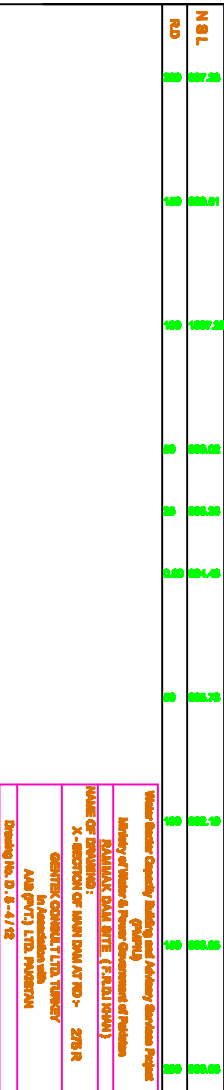
Water Resources Capacity Building and Advisory Services Project  
 (Phase II)  
 Ministry of Water & Power Government of Pakistan  
**RAJALAK DAM SITE (FATAH BAHU)**  
 NAME OF DRAWING:  
 X - SECTION OF MAIN DAM AT RD+ 200 R  
 DESIGNER CONSULT LTD. TURKEY  
 In Association with  
 AAB PVT LTD. PAKISTAN  
 Drawing No. D-3-4-1/2

**RAMMAK DAM SITE**  
**X-SECTION OF MAIN DAM AT RD+ 276 R**  
**SCALE H & V 1"=40'**



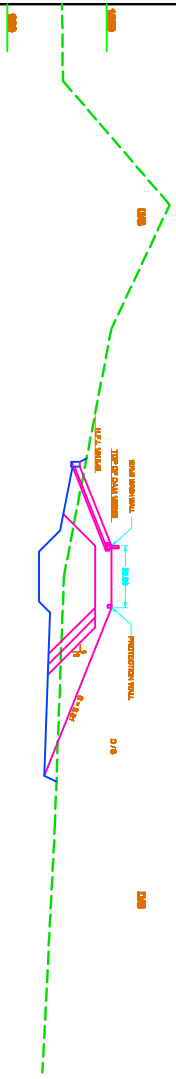
X-SECTION AREA	
1 STRIPPLING	1008.82 SQ
2 RANDOM	1472.11 SQ
3 CORE WALL	1387.07 SQ
4 COFFER DAM	6.00 SQ
5 FINE SAND	90.78 SQ
6 COARSE SAND	80.35 SQ
7 STONE PITCHING	48.28 SQ
	117.80 SQ

X-SECTION AREA	
8 TURNING	64.81
9 TOP FILLING	6.00
10 FINE FILLING	6.00
11 COARSE FILLING	6.00
12 FINE SAND FILLING	6.00
13 COARSE SAND FILLING	6.00
14 STONE PITCHING	6.00



Water Resources Capacity Building and Advisory Services Project  
 (Phase II)  
 Ministry of Water & Power Government of Pakistan  
**RAJALAK DAM SITE (FATAH BAHU)**  
 NAME OF DRAWING:  
 X - SECTION OF MAIN DAM AT RD+ 276 R  
 DESIGNER CONSULT LTD. TURKEY  
 In Association with  
 AAB PVT LTD. PAKISTAN  
 Drawing No. D-3-4-1/2

**RAMMAK DAM SITE**  
**X - SECTION OF MAIN DAM AT RD+ 300 R**  
**SCALE H & V 1"=40'**



1	STRIPPING	790.40 SQ
2	RANDOM FILL	676.62 SQ
3	CORE WALL	646.68 SQ
4	COFFER DAM	0.00 SQ
5	FINE SAND	78.28 SQ
6	COARSE SAND	78.22 SQ
7	STONE PITCHING	28.26 SQ
		67.42 SQ

<b>X-SECTION AREA</b>		
8	TURBINE	1.00
9	TOE FILLING	6.00
10	CONCRETE WALL FILLING	6.00
11	CONCRETE SWELLING	6.00
12	FINE SAND FILLING	6.00

Water Resource Capacity Building and Advisory Services Project  
 (Phase II)  
 Ministry of Water & Power Government of Pakistan

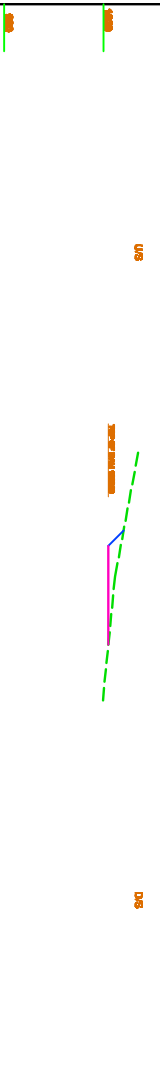
**RAMMAK DAM SITE (FAKRI BHAH)**

NAME OF DRAWING: X - SECTION OF MAIN DAM AT RD+ 300 R

DESIGNED BY: GENITEK CONSULT LTD, TURKEY  
 IN ASSOCIATION WITH  
 AAB PVT LTD, PAKISTAN  
 Drawing No. D - 3 - 8/12



**RAMMAK DAM SITE**  
**X - SECTION OF MAIN DAM AT RD+ 340 R**  
**SCALE H & V 1"=40'**



1	STRIPPING	100.80 SQ
2	RANDOM	0.00 SQ
3	CORE WALL	0.00 SQ
4	COFFER DAM	0.00 SQ
5	FINE SAND	0.00 SQ
6	COARSE SAND	0.00 SQ
7	STONE PITCHING	0.00 SQ

<b>X-SECTION AREA</b>		
8	TURBINE	6.00
9	TOE FILLING	6.00
10	CONCRETE WALL FILLING	6.00
11	CONCRETE SWELLING	6.00
12	FINE SAND FILLING	6.00

Water Resource Capacity Building and Advisory Services Project  
 (Phase II)  
 Ministry of Water & Power Government of Pakistan

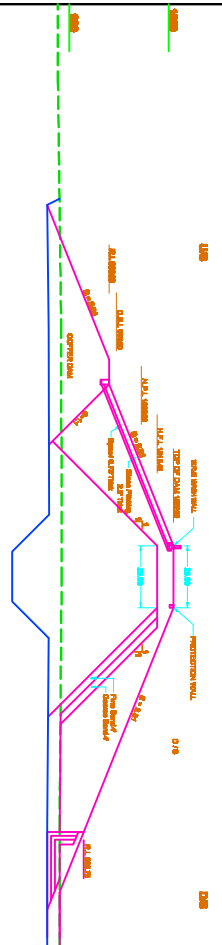
**RAMMAK DAM SITE (FAKRI BHAH)**

NAME OF DRAWING: X - SECTION OF MAIN DAM AT RD+ 300 R

DESIGNED BY: GENITEK CONSULT LTD, TURKEY  
 IN ASSOCIATION WITH  
 AAB PVT LTD, PAKISTAN  
 Drawing No. D - 3 - 8/12



**RAMMAK DAM SITE**  
**X-SECTION OF MAIN DAM AT RD+ 100 L**  
 SCALE H & V = 1:40

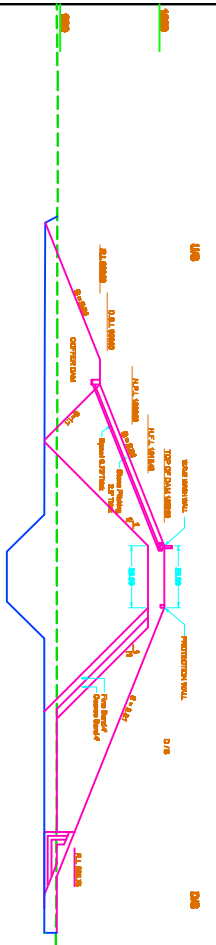


X-SECTION AREA	
1 STRIPPLING	2000.22 SQ
2 RANDOM FILL	2071.28 SQ
3 CORE WALL	3816.16 SQ
4 COFFER DAM	1270.20 SQ
5 FINE SAND	401.81 SQ
6 COARSE SAND	106.99 SQ
7 STONE PITCHING	196.77 SQ

X-SECTION AREA	
8 TURNING	67.41
9 TOP FILLING	162.68
10 CONCRETE FILLING	42.41
11 COARSE SAND FILLING	43.17
12 FINE SAND FILLING	106.99

Water Resource Capacity Building and Advisory Services Project  
 Ministry of Water & Power Government of Pakistan  
 (GWP)  
**RAMMAK DAM SITE (FAKRI BHAH)**  
 NAME OF DRAWING :  
 X - SECTION OF MAIN DAM AT RD+ 100 L  
 DESIGNED BY :  
 GINTEK CONSULT LTD, TURKEY  
 IN ASSOCIATION WITH  
 AAB PVT LTD, PAKISTAN  
 Drawing No. D. 3-8-37/12

**RAMMAK DAM SITE**  
**X-SECTION OF MAIN DAM AT RD+ 200 L**  
 SCALE H & V = 1:40

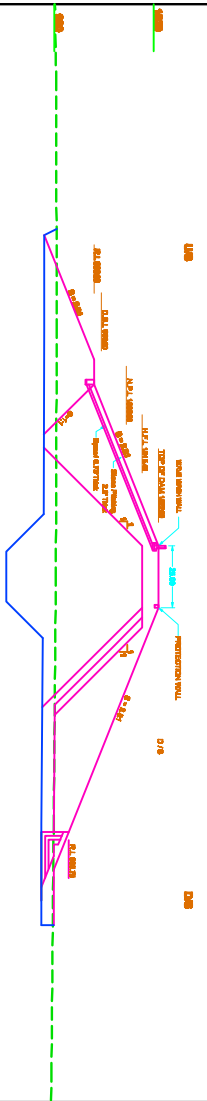


X-SECTION AREA	
1 STRIPPLING	1990.19 SQ
2 RANDOM FILL	2490.34 SQ
3 CORE WALL	3826.16 SQ
4 COFFER DAM	1073.21 SQ
5 FINE SAND	403.73 SQ
6 COARSE SAND	147.20 SQ
6 SPAVIL	68.13 SQ
7 STONE PITCHING	196.77 SQ

X-SECTION AREA	
8 TURNING	67.41
9 TOP FILLING	162.68
10 CONCRETE FILLING	42.41
11 COARSE SAND FILLING	38.41
12 FINE SAND FILLING	106.99

Water Resource Capacity Building and Advisory Services Project  
 Ministry of Water & Power Government of Pakistan  
 (GWP)  
**RAMMAK DAM SITE (FAKRI BHAH)**  
 NAME OF DRAWING :  
 X - SECTION OF MAIN DAM AT RD+ 200 L  
 DESIGNED BY :  
 GINTEK CONSULT LTD, TURKEY  
 IN ASSOCIATION WITH  
 AAB PVT LTD, PAKISTAN  
 Drawing No. D. 3-8-37/12

**RAMMAK DAM SITE**  
**X-SECTION OF MAIN DAM AT RD+ 300 L**  
**SCALE H & V 1"=40'**



X-SECTION AREA	
1 STRIPPING	1915.11 SQ
2 RANDOM FILL	2292.70 SQ
3 CORE WALL	3111.25 SQ
4 COFFER DAM	907.85 SQ
5 FINE SAND	405.91 SQ
6 COARSE SAND	141.19 SQ
7 SPAVL	68.19 SQ
7 STONE PITCHING	126.77 SQ

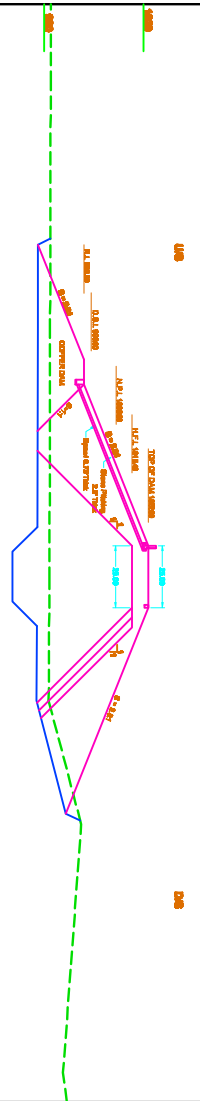
X-SECTION AREA	
8 TURNING	67.43
9 TOP FILLING	624.88
10 FINE SAND	224.88
11 COARSE SAND	224.88
12 FINE SAND	412.88

Water Resource Capacity Building and Advisory Services Project  
 (Phase II)  
 Ministry of Water & Power Government of Pakistan

RAMMAK DAM SITE (FAKRI BHAH)  
 NAME OF DRAWING:  
 X-SECTION OF MAIN DAM AT RD+ 300 L

ENGINEER CONSULT LTD. TURKEY  
 In Association with  
 AAB PVT LTD. PAKISTAN  
 Drawing No. D. S.-07/12

**RAMMAK DAM SITE**  
**X-SECTION OF MAIN DAM AT RD+ 400 L**  
**SCALE H & V 1"=40'**



X-SECTION AREA	
1 STRIPPING	1450.15 SQ
2 RANDOM FILL	2187.29 SQ
3 CORE WALL	2726.29 SQ
4 COFFER DAM	785.80 SQ
5 FINE SAND	151.85 SQ
6 COARSE SAND	144.85 SQ
7 SPAVL	68.19 SQ
7 STONE PITCHING	126.77 SQ

X-SECTION AREA	
8 TURNING	68.25
9 TOP FILLING	624.88
10 FINE SAND	224.88
11 COARSE SAND	224.88
12 FINE SAND	412.88

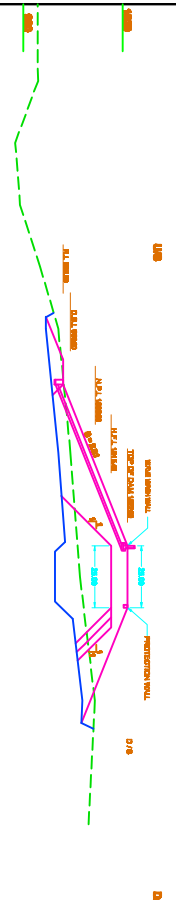
Water Resource Capacity Building and Advisory Services Project  
 (Phase II)  
 Ministry of Water & Power Government of Pakistan

RAMMAK DAM SITE (FAKRI BHAH)  
 NAME OF DRAWING:  
 X-SECTION OF MAIN DAM AT RD+ 400 L

ENGINEER CONSULT LTD. TURKEY  
 In Association with  
 AAB PVT LTD. PAKISTAN  
 Drawing No. D. S.-07/12

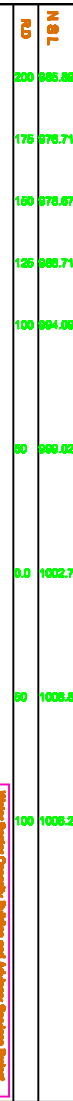


**RAMMAK DAM SITE**  
**X-SECTION OF MAIN DAM AT RD+ 400 L**  
**SCALE H & V = 1:40'**



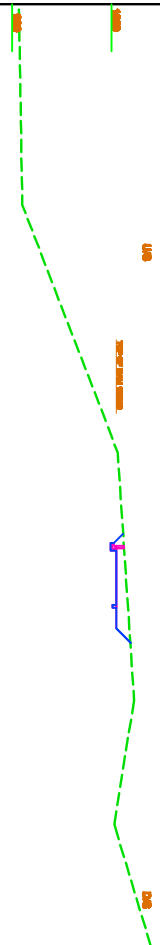
X-SECTION AREA	
1 STRIPPING	807.01 SQ
2 RANDOM FILL	1000.94 SQ
3 CORE WALL	670.81 SQ
4 COFFER DAM	100.71 SQ
5 FINE SAND	80.88 SQ
6 COARSE SAND	64.00 SQ
7 STONE PITCHING	190.77 SQ

X-SECTION AREA	
8 TYPING	0.00
9 TOP FILLING	0.00
10 FINE FILLING	0.00
11 COARSE FILLING	0.00
12 CONCRETE FILLING	0.00
13 FINE SAND FILLING	0.00
14 FINE SAND FILLING	0.00



Water Resource Capacity Building and Advisory Services Project  
 (Phase II)  
 Ministry of Water & Power Government of Pakistan  
**RAMMAK DAM SITE (FATAH BAHU)**  
 NAME OF DRAWING: X-SECTION OF MAIN DAM AT RD+ 400 L  
 DESIGNED BY: ENGR. SHAHID ULLAH  
 CHECKED BY: ENGR. SHAHID ULLAH  
 APPROVED BY: ENGR. SHAHID ULLAH  
 DATE: 10/10/2023  
 DRAWING NO: D-5-31/12

**RAMMAK DAM SITE**  
**X-SECTION OF MAIN DAM AT RD+ 400 L**  
**SCALE H & V = 1:40'**



X-SECTION AREA	
1 STRIPPING	178.38 SQ
2 RANDOM	0.00 SQ
3 CORE WALL	0.00 SQ
4 COFFER DAM	0.00 SQ
5 FINE SAND	0.00 SQ
6 COARSE SAND	0.00 SQ
7 STONE PITCHING	0.00 SQ

X-SECTION AREA	
8 TYPING	0.00
9 TOP FILLING	0.00
10 FINE FILLING	0.00
11 COARSE FILLING	0.00
12 CONCRETE FILLING	0.00
13 FINE SAND FILLING	0.00
14 FINE SAND FILLING	0.00



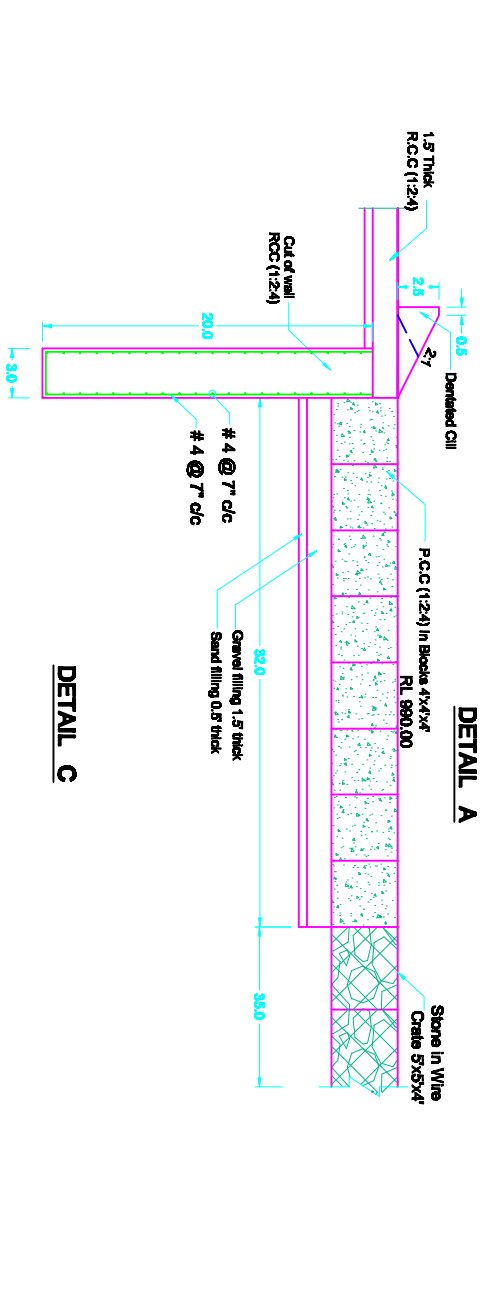
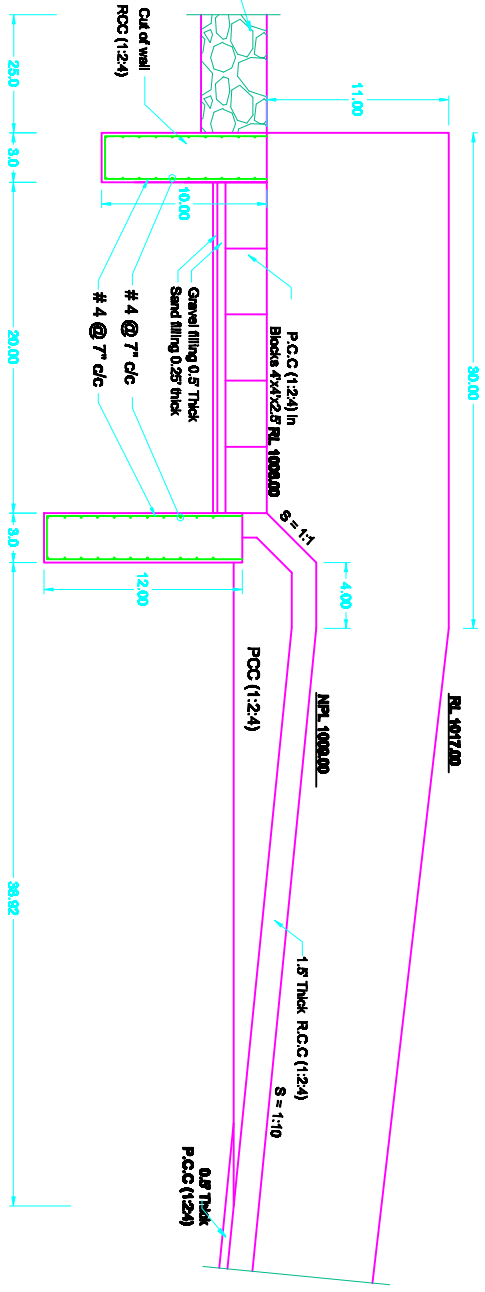
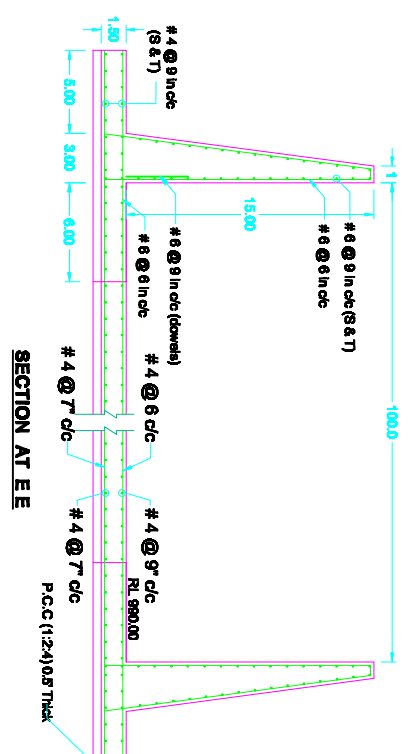
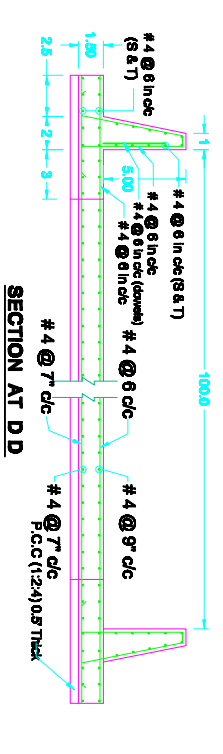
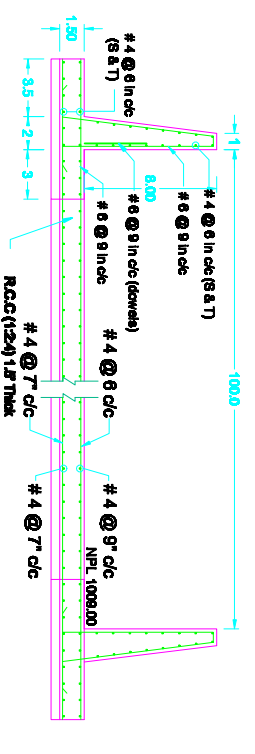
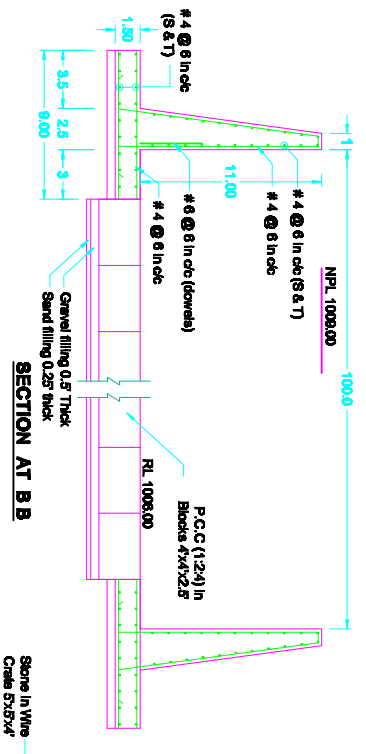
Water Resource Capacity Building and Advisory Services Project  
 (Phase II)  
 Ministry of Water & Power Government of Pakistan  
**RAMMAK DAM SITE (FATAH BAHU)**  
 NAME OF DRAWING: X-SECTION OF MAIN DAM AT RD+ 400 L  
 DESIGNED BY: ENGR. SHAHID ULLAH  
 CHECKED BY: ENGR. SHAHID ULLAH  
 APPROVED BY: ENGR. SHAHID ULLAH  
 DATE: 10/10/2023  
 DRAWING NO: D-5-31/12

**SPILLWAY**

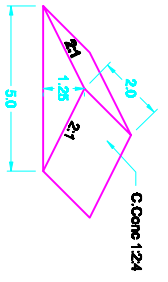
# RAMMAK DAM SITE

## SPILLWAY SECTIONS

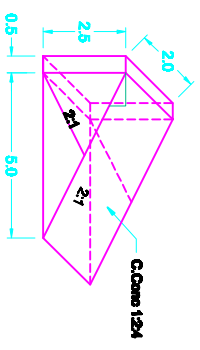
SCALE H A V T = 8



**BLOCKS IN BETWEEN DENTATED CILL (b)**



**DETAIL OF DENTATED BLOCKS DENTATED CILL (a)**

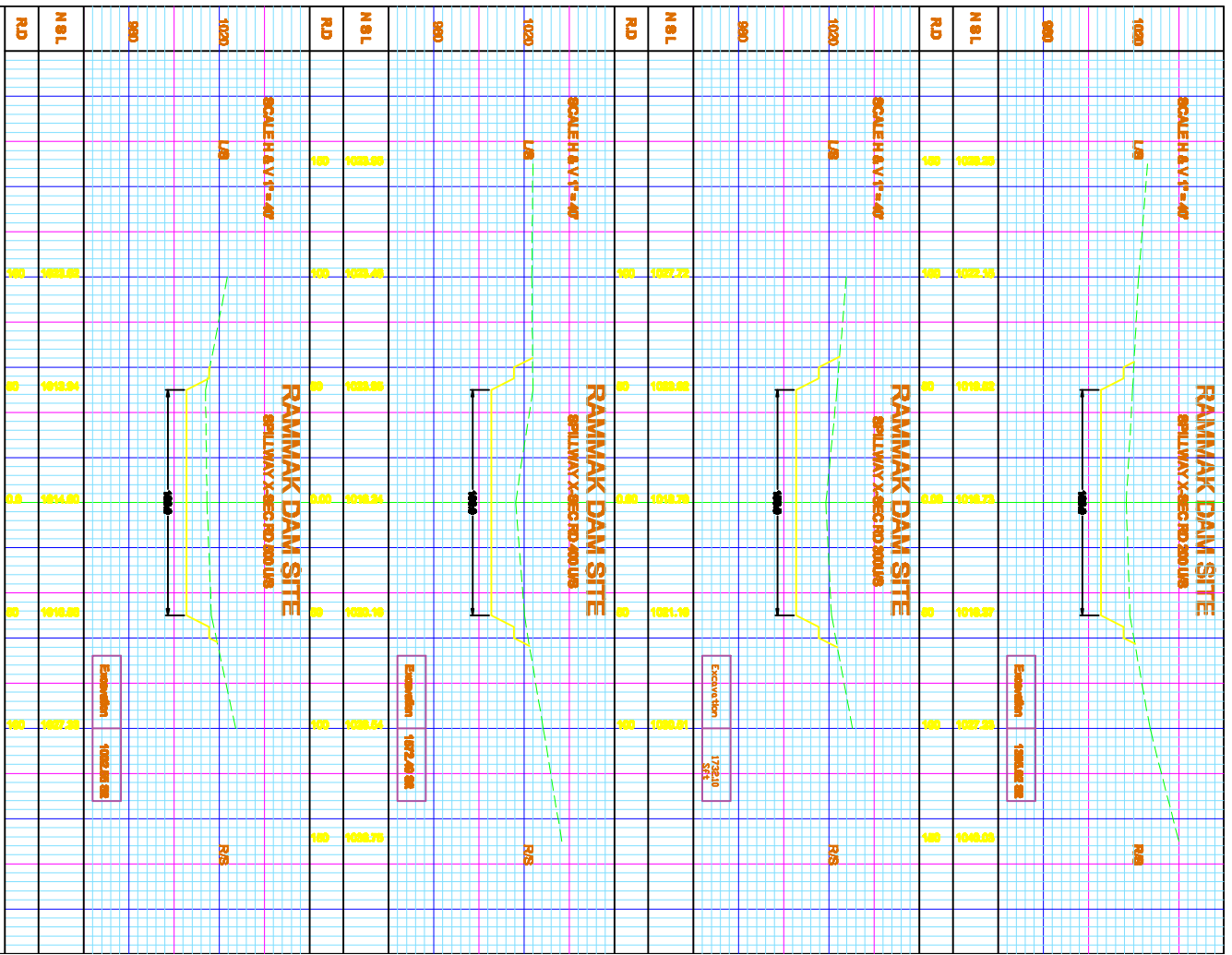


**DETAIL C**

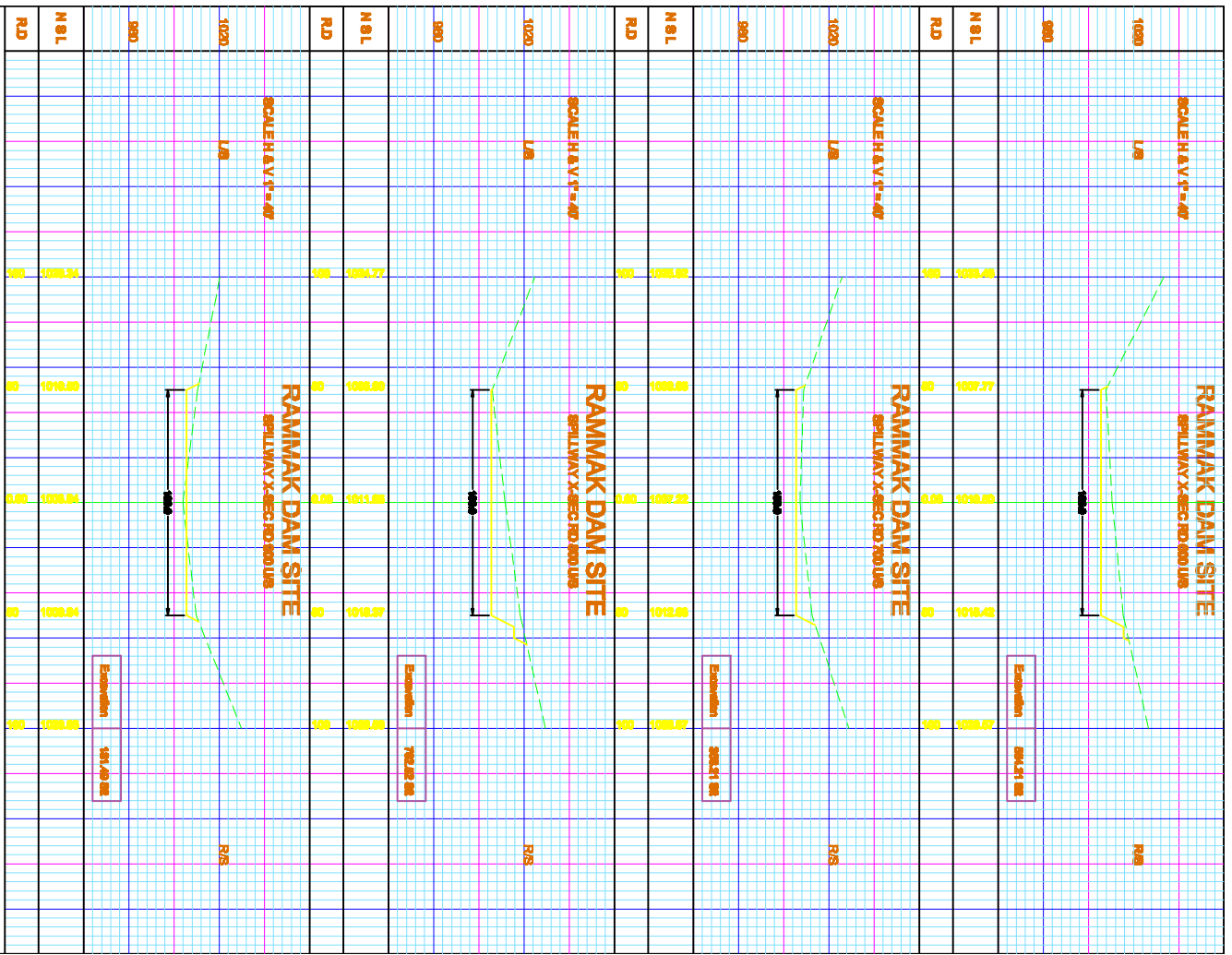
Water Sector Capacity Building and Advisory Services Project (Phase II) Ministry of Water & Power Government of Pakistan <b>RAMMAK DAM SITE (F.R.D./RWA)</b>
<b>NAME OF DRAWING: SPILLWAY SECTIONS</b>
<b>GENERAL CONSULTANT, TURKEY</b> In Association with <b>AAB (PVT.) LTD. PAKISTAN</b>
Drawing No. S - 1 - (2/9)



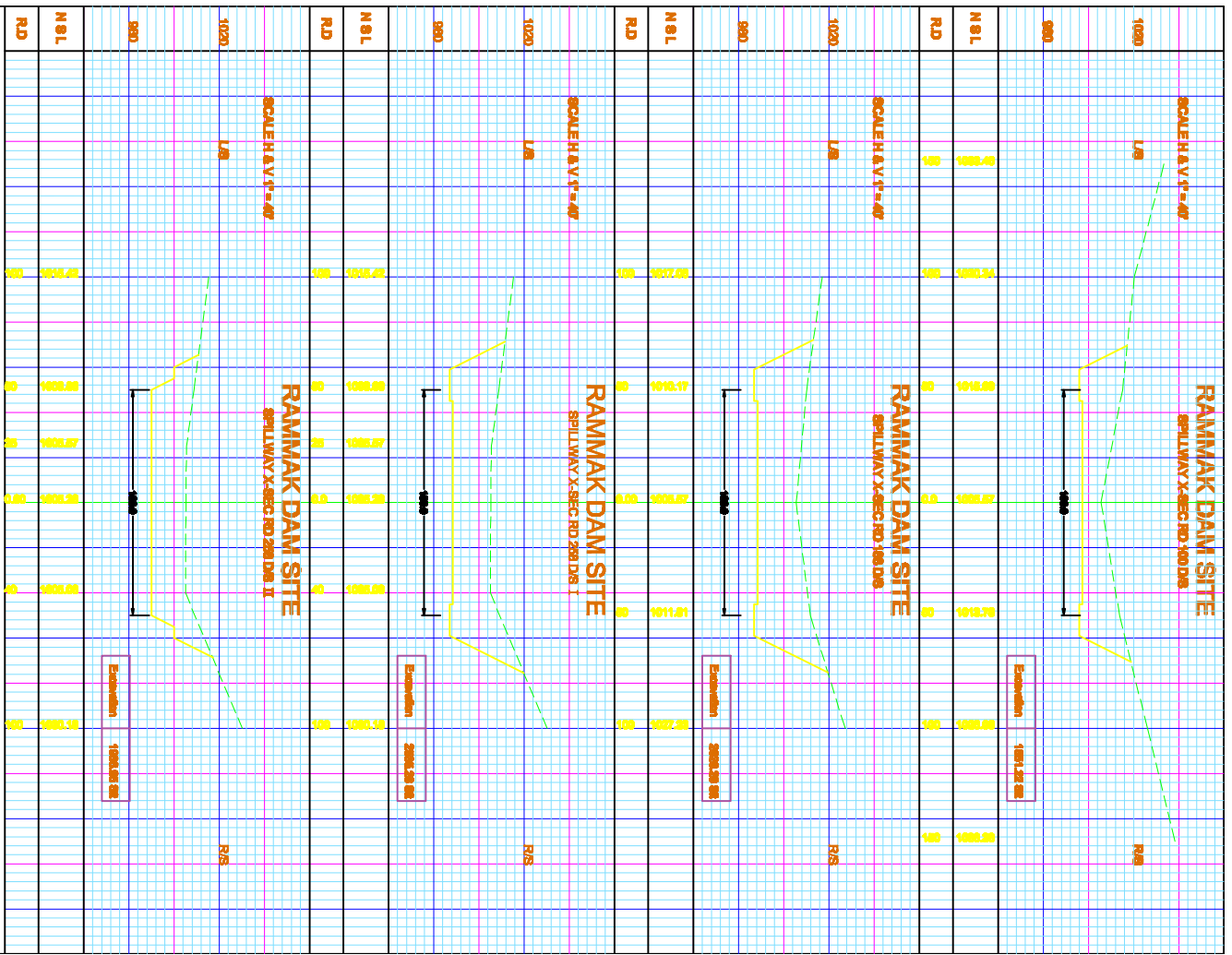




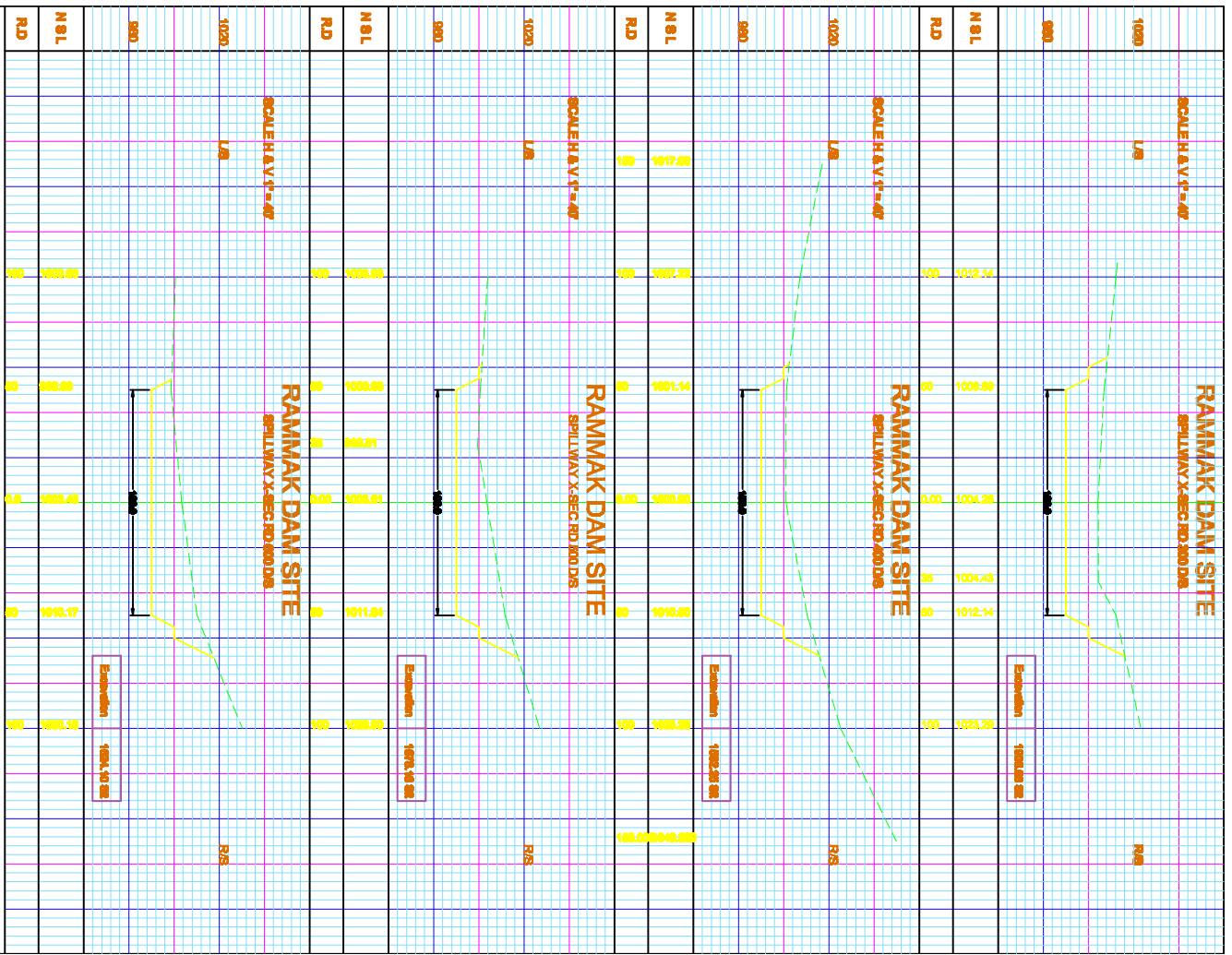
Water Studies Capacity Building and Advisory Services Project  
 (P/17/14)  
 Ministry of Water & Power Government of Pakistan  
 RAMMAK DAM SITE ( FARDIQUAN )  
 NAME OF DRAWING: X - SECTION OF SPILLWAY  
 GENITEK CONSULT LTD., TURKEY  
 In Association with  
 AAS (PVT.) LTD., PAKISTAN  
 Drawing No. S-2-210



Water Studies Company Consulting and Advisory Services Project  
 Ministry of Water & Power Government of Pakistan  
 RAMMAK DAM SITE ( FARDIQUAN )  
 NAME OF DRAWING : X - SECTION OF SPILLWAY  
 GENITEK CONSULT LTD., TURKEY  
 In Association with  
 AAB (PVT.) LTD., PAKISTAN  
 Drawing No. S-2-318



Water Studies Capacity Building and Advisory Services Project  
 Ministry of Water & Power Government of Pakistan  
 RAMMAK DAM SITE ( FARDIQUAN )  
 NAME OF DRAWING : X - SECTION OF SPELWAY  
 GENTEX CONSULT LTD., TURKEY  
 In Association with  
 AAS (PVT.) LTD., PAKISTAN  
 Drawing No. S-2-416



Water Studies Capacity Building and Advisory Services Project  
(FARDIUM)

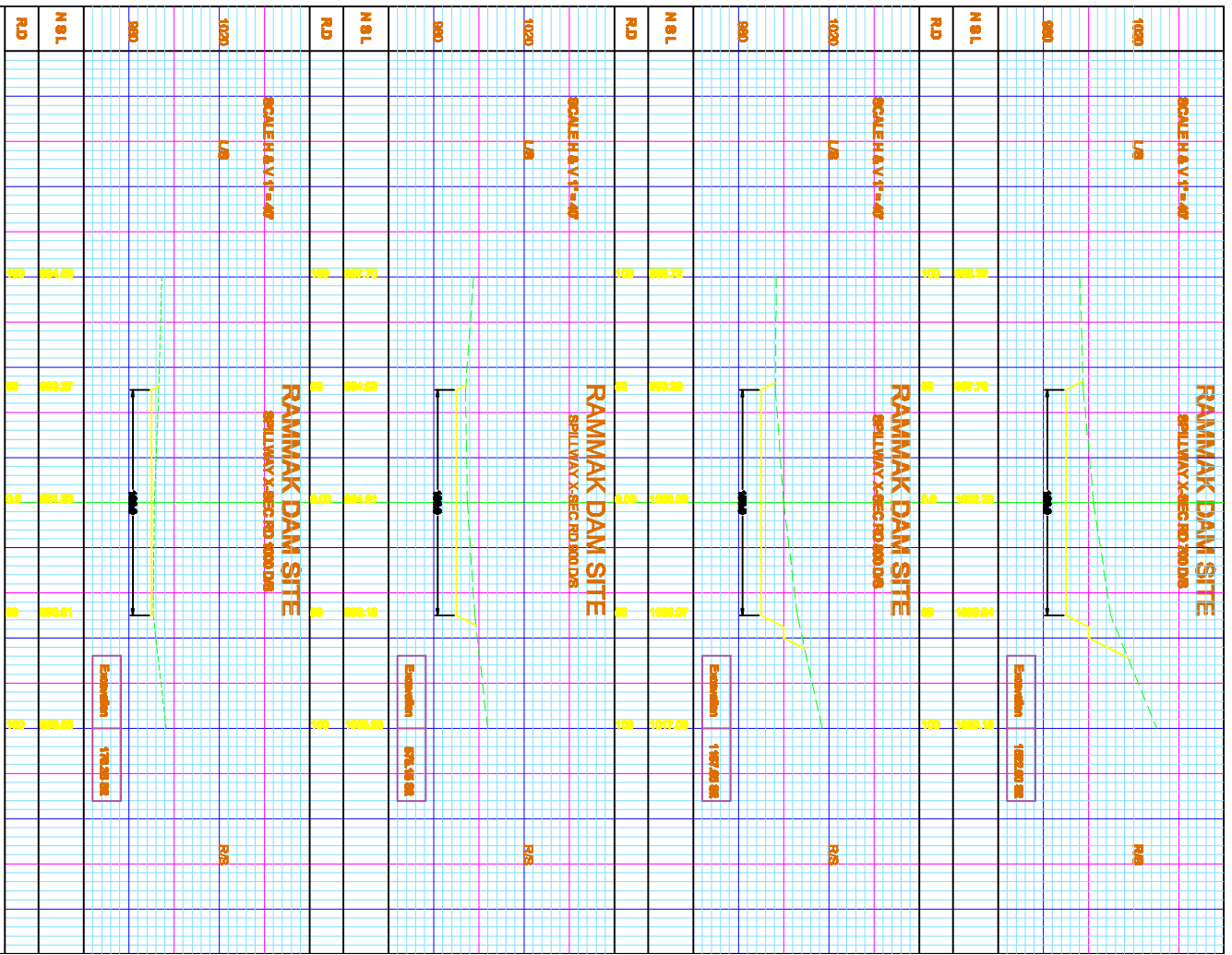
Ministry of Water & Power Government of Pakistan

RAMMAK DAM SITE ( FARDIUM )

NAME OF DRAWING: X - SECTION OF SPILLWAY

DESIGNER: GENTEK CONSULT LTD., TURKEY  
In Association with  
AAS (PVT.) LTD., PAKISTAN

Drawing No. S-2-3/18



Water Studies Capacity Building and Advisory Services Project  
(pursing)  
Ministry of Water & Power Government of Pakistan  
RAMMAK DAM SITE ( FARDIQUAN )  
NAME OF DRAWING : X - SECTION OF SPILLWAY  
DESIGNER CONSULT LTD., TURKEY  
In Association with  
AAS (PVT.) LTD., PAKISTAN  
Drawing No. S-2-416



# IRRIGATION CHANNEL

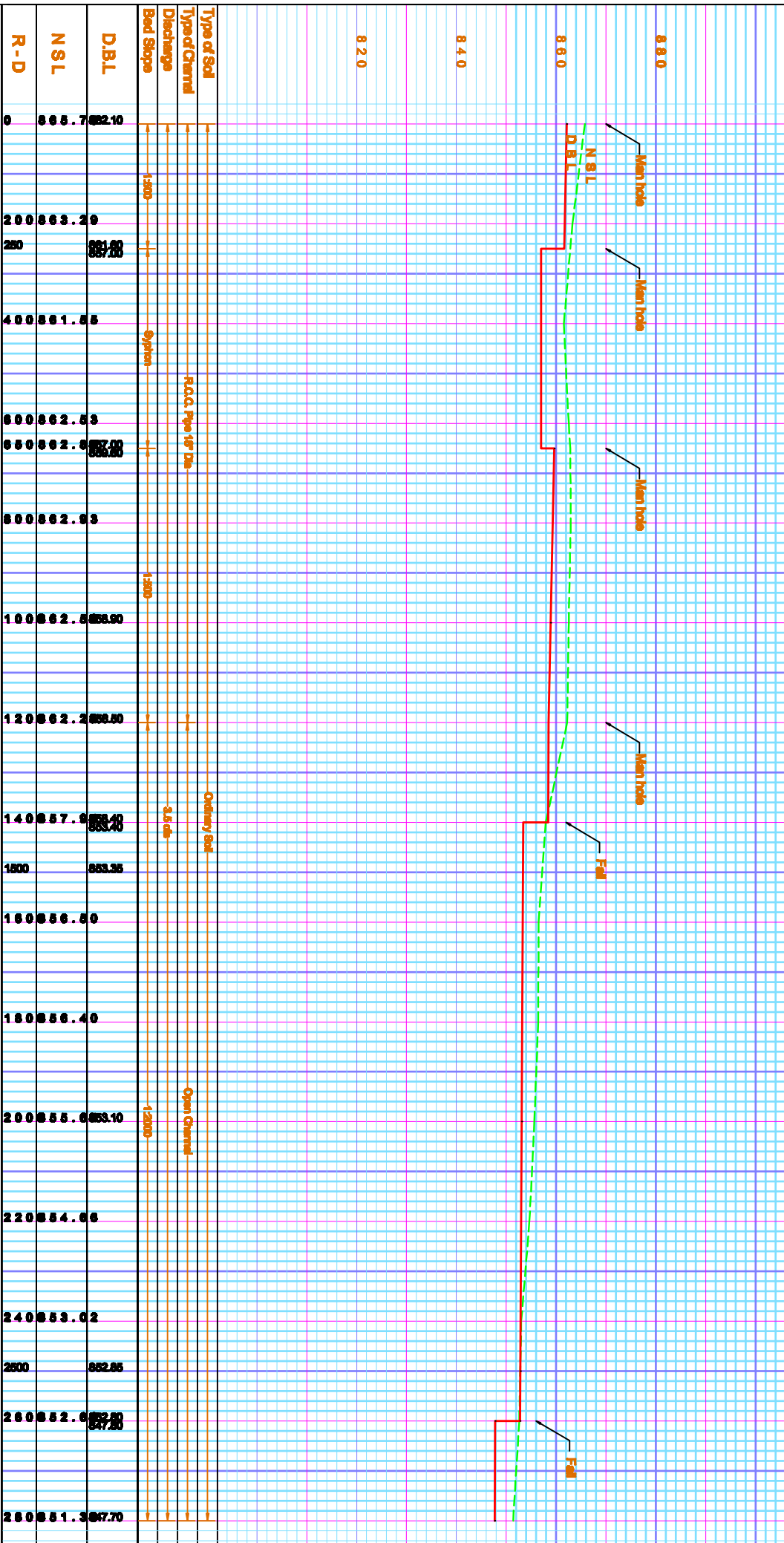


# RAMMAK DAM SITE

L-SECTION OF IRRIGATION CHANNEL (Left)

SCALE - H 1" = 20'  
V 1" = 20'

(RD 0 - 2600)



Type of Soil	Type of Channel	Discharge	Bed Slope	DBL	NSL	R-D
	Acad. Pipe for Dis.	1:500		882.10	865.70	0
				883.20	863.20	200
				887.00	861.00	250
				881.55	861.55	400
				882.53	862.53	600
				882.60	862.60	650
				882.63	862.63	800
				882.50	862.50	1000
				886.00	862.20	1200
	Ordinary Soil	3:1 side		887.40	857.90	1400
				883.35	853.35	1500
				886.50	856.50	1600
				886.40	856.40	1800
				883.10	855.60	2000
				884.66	854.66	2200
				883.02	853.02	2400
				882.85	852.85	2500
				887.00	852.60	2600
				887.70	851.30	2600

Water Sector Capacity Building and Advisory Services Project  
(PACFPU)  
Ministry of Water & Power Government of Pakistan

RAMMAK DAM SITE ( F.R.DIKHAN )  
NAME OF DRAWING : IRRIGATION CHANNEL  
L-SECTION (Left)

GENTEK CONSULT LTD, TURKEY  
In Association with  
AAB (PVT.) LTD, PAKISTAN

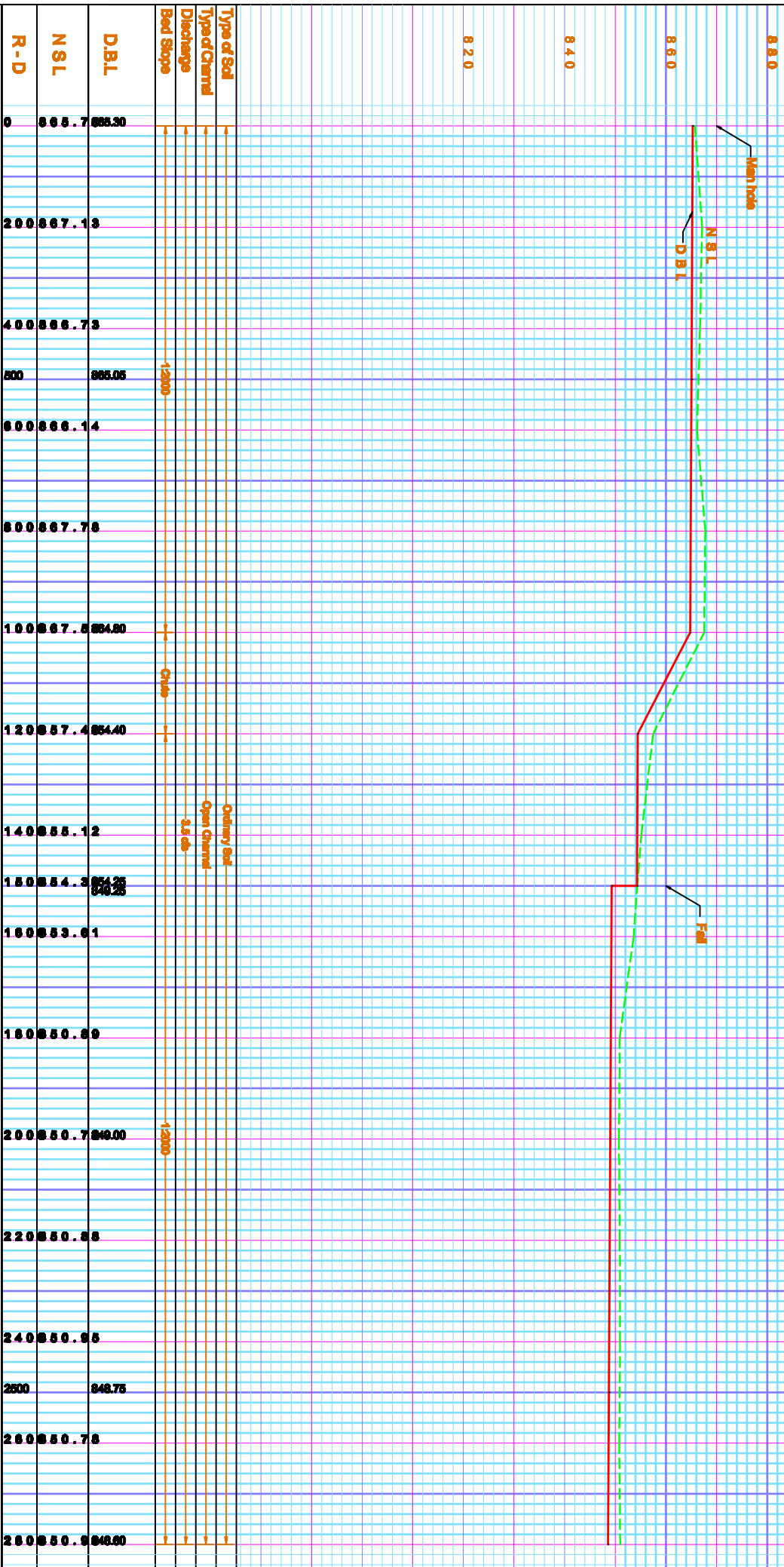
Drawing No. G-3-(1/3)

# RAMMAK DAM SITE

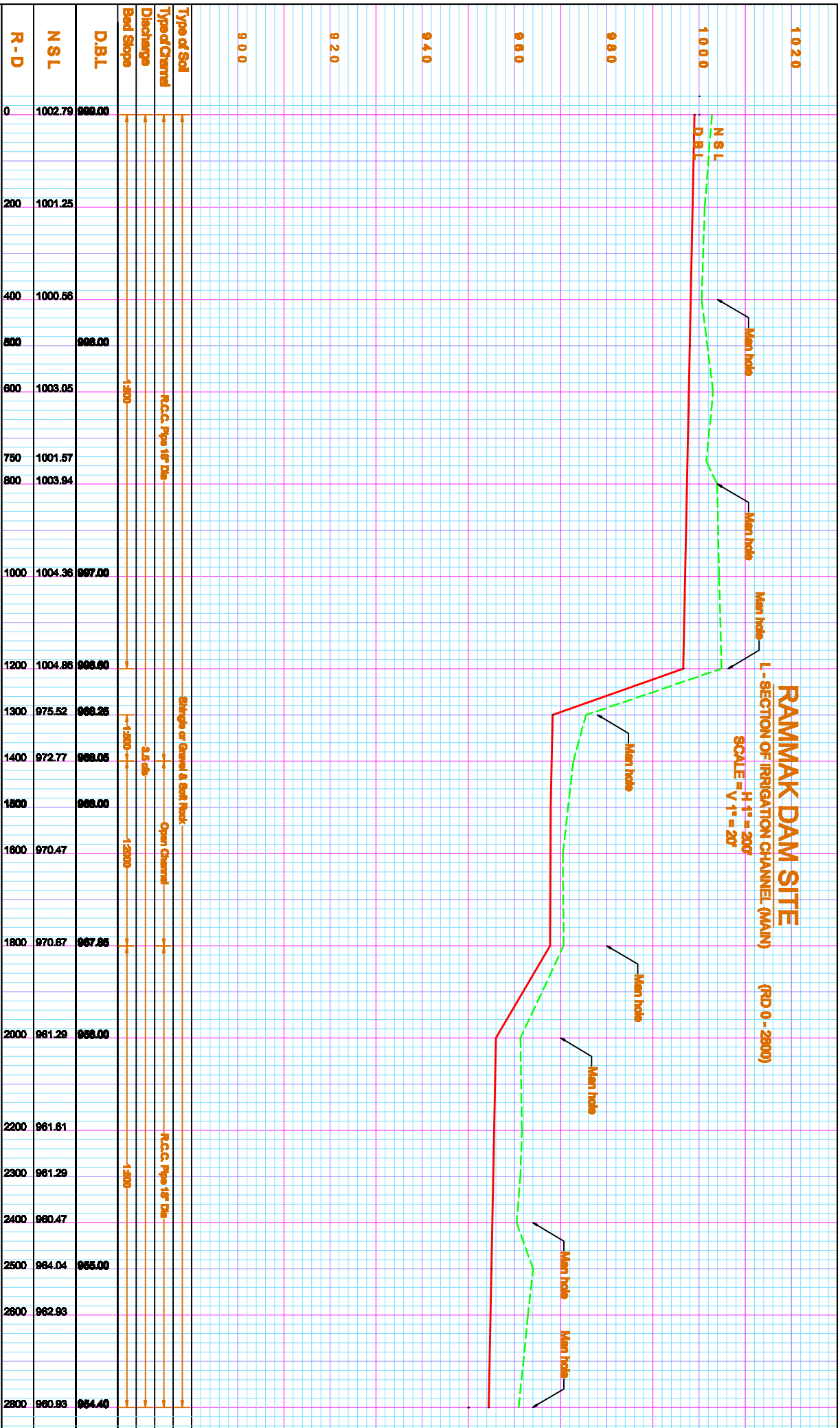
L-SECTION OF IRRIGATION CHANNEL (RIGHT)

(RD 0 - 2600)

SCALE = H 1" = 20'  
V 1" = 20'



Water Sector Capacity Building and Advisory Services Project  
 (PACFPU)  
 Ministry of Water & Power Government of Pakistan  
**RAMMAK DAM SITE ( F.R.DIKHAN )**  
 NAME OF DRAWING : IRRIGATION CHANNEL  
 L-SECTION (RIGHT)  
 GENTEK CONSULT LTD, TURKEY  
 In Association with  
 AAB (PVT.) LTD, PAKISTAN  
 Drawing No. G-4-(1/2)



**RAMIMAK DAM SITE**

(RD 0 - 2800)

L - SECTION OF IRRIGATION CHANNEL (MAIN)  
SCALE = H 1" = 20'  
V 1" = 20'

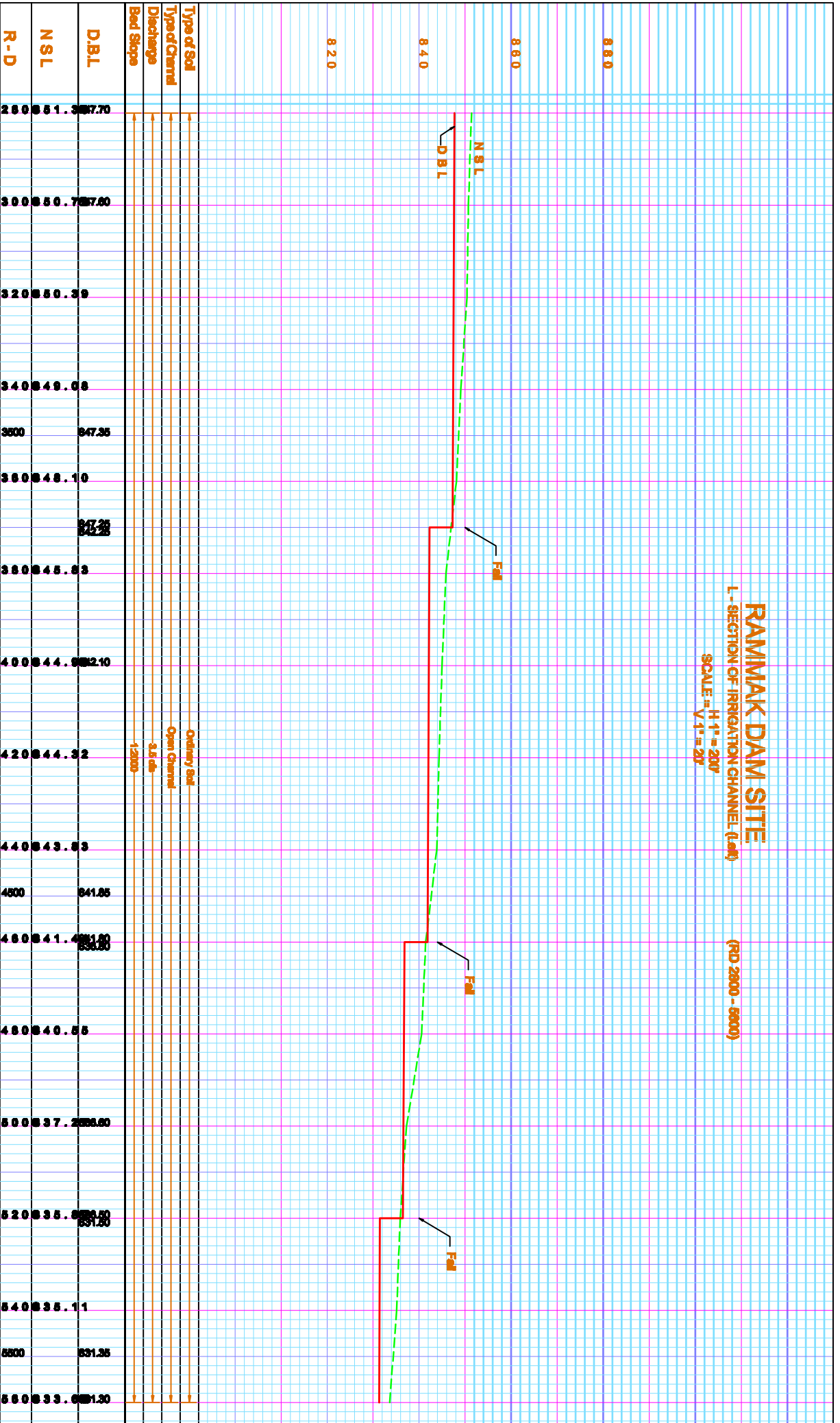
Water Sector Capacity Building and Advisory Services Project  
(PAP/FCU)  
Ministry of Water & Power Government of Pakistan  
**RAMIMAK DAM SITE ( F.R.D.IRQAN )**  
NAME OF DRAWING : IRRIGATION CHANNEL  
L-SECTION  
GENTEK CONSULT LTD, TURKEY  
In Association with  
AAB (PVT.) LTD, PAKISTAN  
Drawing No. G - 3 - (1/4)

# RAMIMAK DAM SITE

L-SECTION OF IRRIGATION CHANNEL (1:50)

SCALE = H 1" = 20'  
V 1" = 20'

(RD 2900 - 5000)



Water Sector Capacity Building and Advisory Services Project  
(PAP/1U)

Ministry of Water & Power Government of Pakistan

RAMIMAK DAM SITE ( F.R.D.IRKAN )

NAME OF DRAWING : IRRIGATION CHANNEL  
L-SECTION (Left)

GENTEK CONSULT LTD, TURKEY  
In Association with  
AAB (PVT.) LTD, PAKISTAN

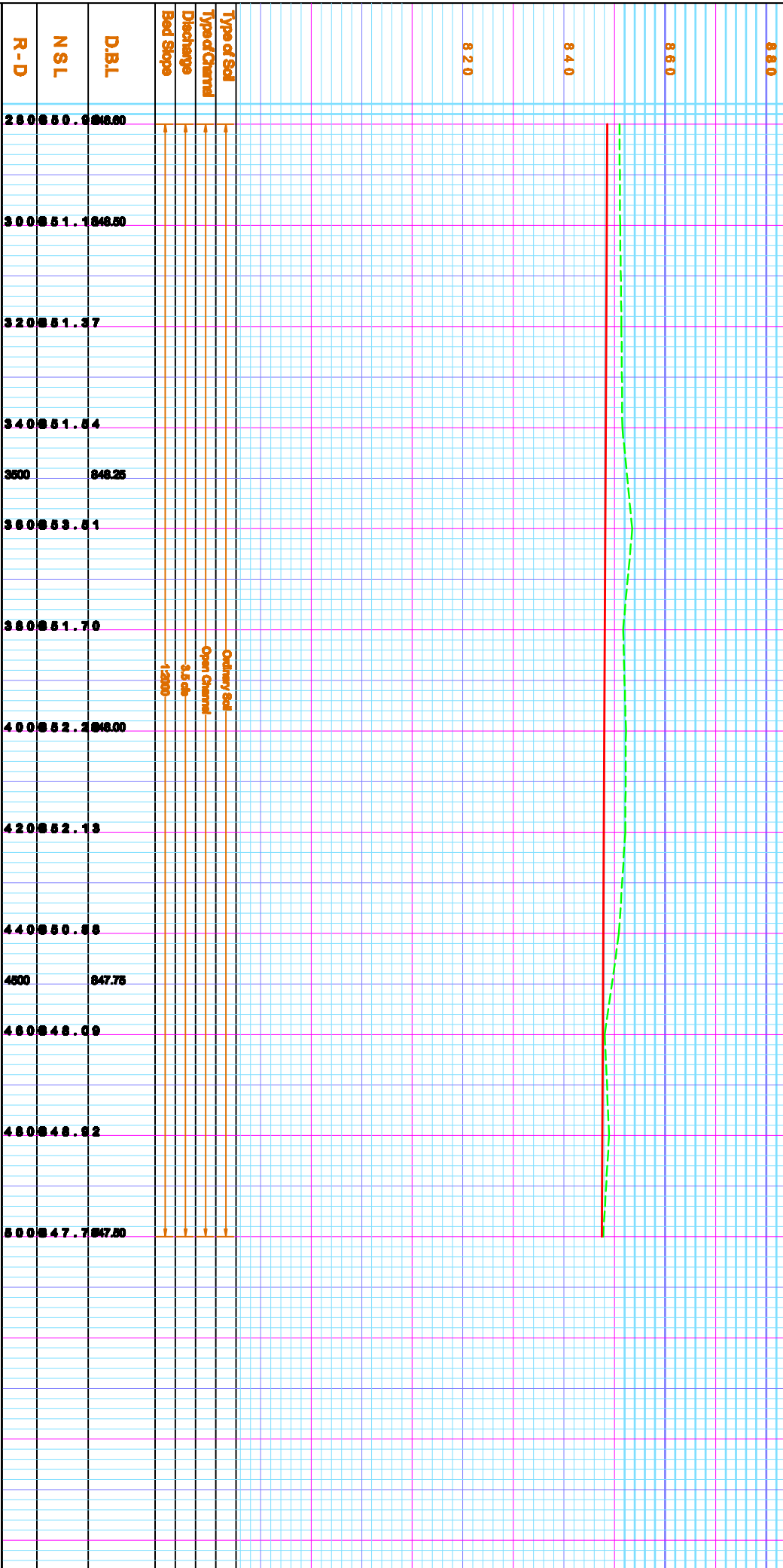
Drawing No. G-3-(2/9)

# RAMMAK DAM SITE

L-SECTION OF IRRIGATION CHANNEL (RIGHT)

(RD 2600 - 5000)

SCALE =  $H:1'' = 20'$   
 $V:1'' = 20'$



Water Sector Capacity Building and Advisory Services Project  
 (PAP/PIU)  
 Ministry of Water & Power Government of Pakistan

RAMMAK DAM SITE ( F.R.DIKHAN )

NAME OF DRAWING : IRRIGATION CHANNEL  
 L-SECTION (RIGHT)

GENTEK CONSULT LTD, TURKEY  
 In Association with  
 AAB (PVT.) LTD, PAKISTAN

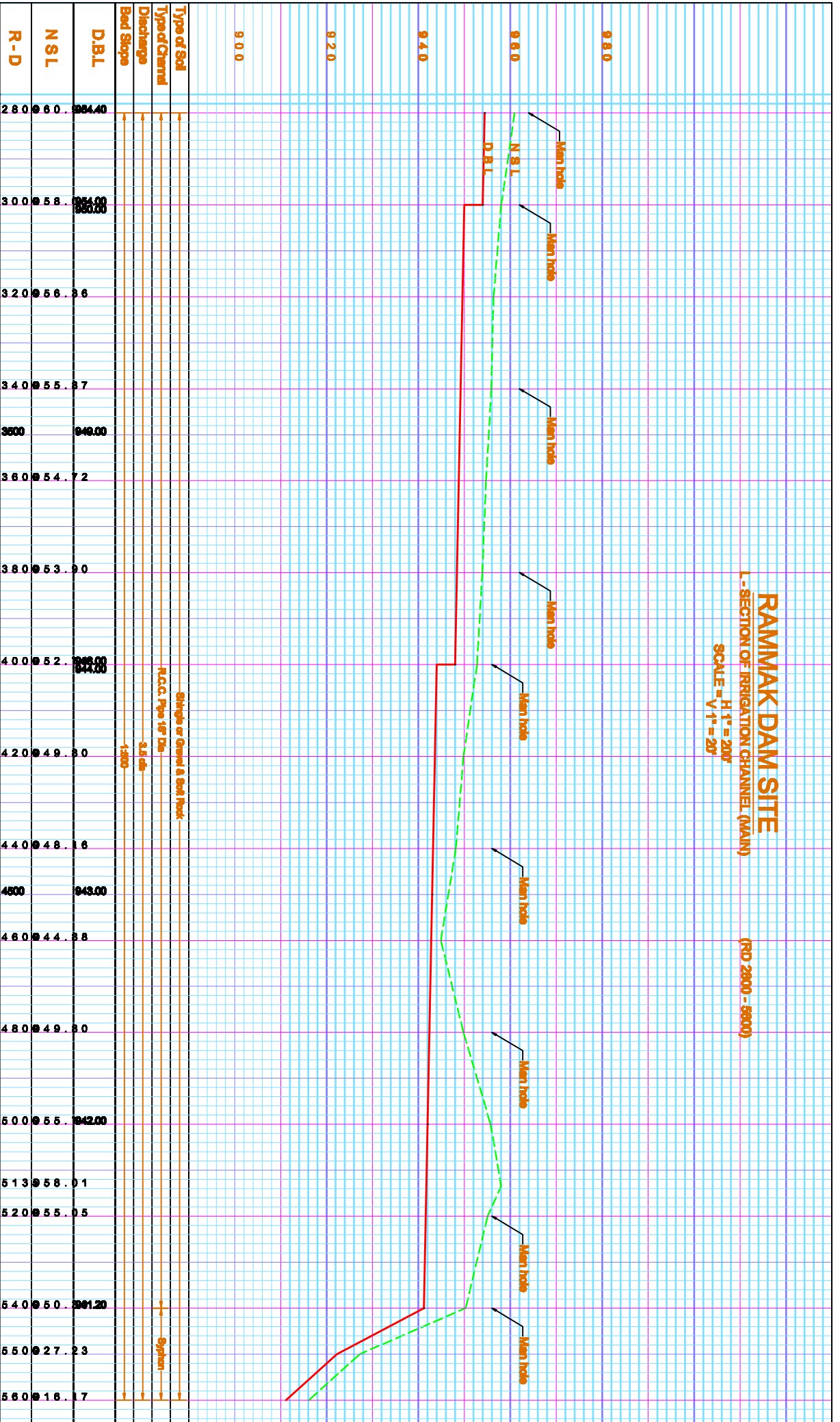
Drawing No. C-4-(2/2)

# RAMMAK DAM SITE

L-SECTION OF IRRIGATION CHANNEL (MAIN)

(RD 2800 - 5600)

SCALE =  $H 1" = 20'$   
 $V 1" = 20'$



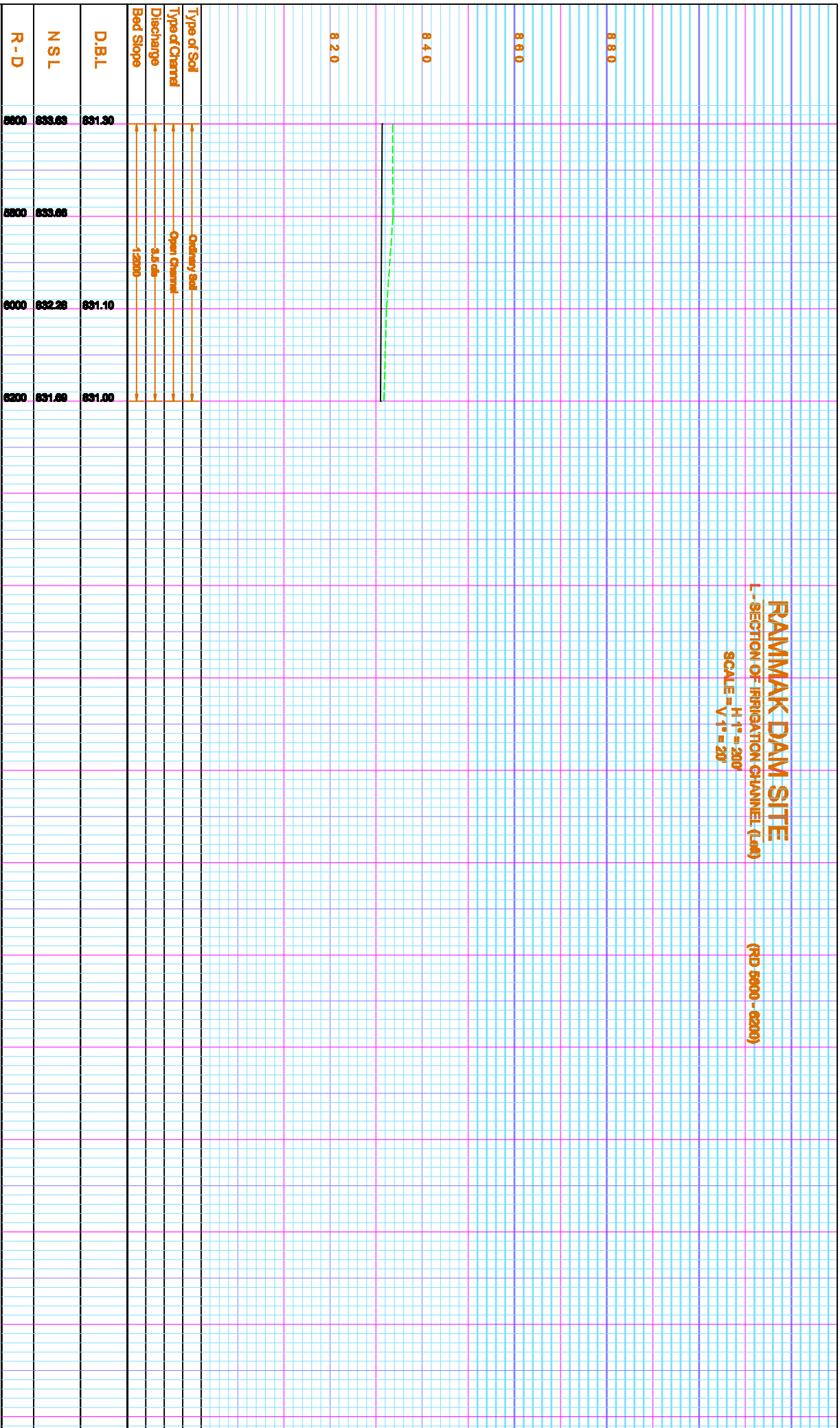
Water Sector Capacity Building and Advisory Services Project  
(PAP/1U)  
Ministry of Water & Power Government of Pakistan  
RAMMAK DAM SITE ( F.R.D.IRRAWAN )  
NAME OF DRAWING : IRRIGATION CHANNEL  
L-SECTION  
GENTEK CONSULT LTD, TURKEY  
In Association with  
AAB (PVT.) LTD, PAKISTAN  
Drawing No. G-2-(2/4)

# RAMMAK DAM SITE

L-SECTION OF IRRIGATION CHANNEL (LAK)

SCALE =  $H 1'' = 20'$   
 $V 1'' = 20'$

(PID 5000 - 0200)



Type of Soil	Ordinary Soil
Type of Channel	Open Channel
Discharge	3.5 cfs
Bed Slope	1:2000

D.B.L	631.30	631.10	631.00
NSL	633.65 <td>633.66 <td>632.28 </td></td>	633.66 <td>632.28 </td>	632.28
R-D	6600 <td>6000 <td>6200 </td></td>	6000 <td>6200 </td>	6200

Water Sector Capacity Building and Advisory Services Project

(PAF/PIU)

Ministry of Water & Power Government of Pakistan

RAMMAK DAM SITE ( F.R.D.IKJAN )

NAME OF DRAWING : IRRIGATION CHANNEL

L-SECTION (LAK)

GENTEK CONSULT LTD, TURKEY

In Association with  
 AAB (PVT.) LTD, PAKISTAN

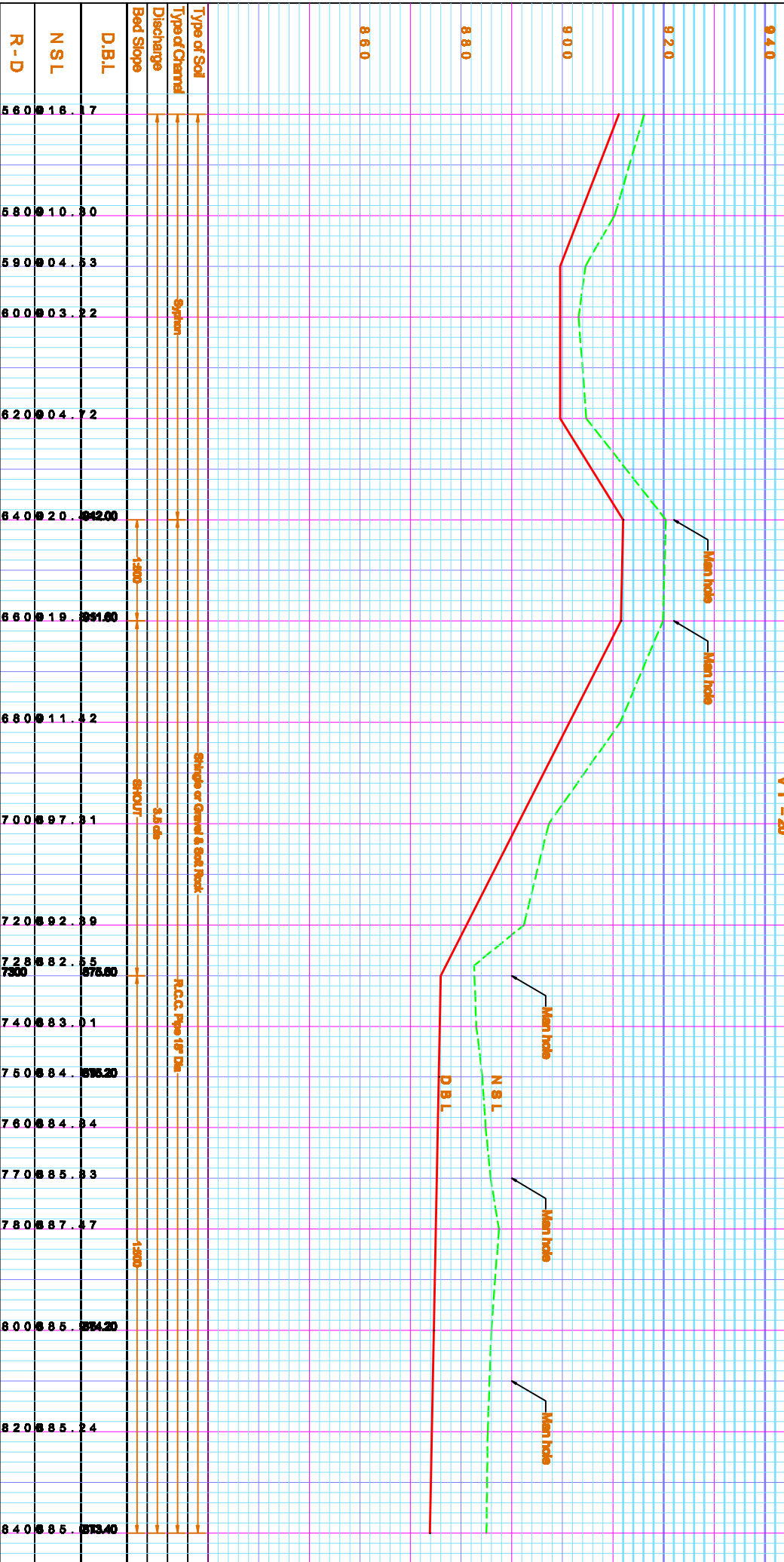
Drawing No. G - 3 - (9/9)

# RAMMAK DAM SITE

L-SECTION OF IRRIGATION CHANNEL (MAIN)

(RD 5900 - 8400)

SCALE -  $\frac{H}{V} = \frac{1}{20}$



Water Sector Capacity Building and Advisory Services Project  
 (PAP/1U)  
 Ministry of Water & Power Government of Pakistan  
**RAMMAK DAM SITE ( F.R.D.IRQAN )**  
 NAME OF DRAWING : IRRIGATION CHANNEL  
 L-SECTION  
 GENTEK CONSULT LTD, TURKEY  
 In Association with  
 AAB (PVT.) LTD, PAKISTAN  
 Drawing No. G-2-(8/4)

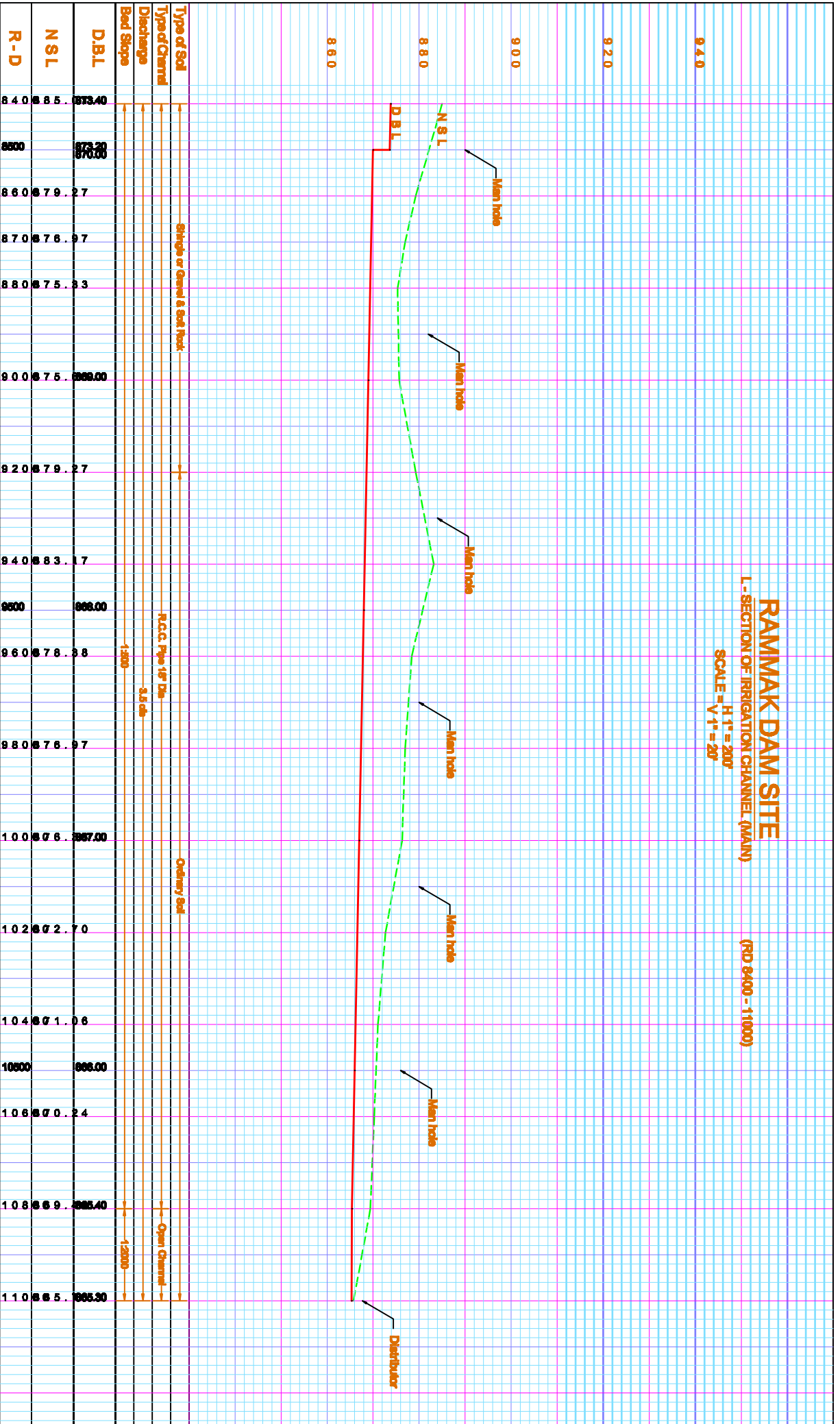


# RAMMAK DAM SITE

L-SECTION OF IRRIGATION CHANNEL (MAIN)

(RD 8400 - 11000)

SCALE -  $H:1" = 20'$   
 $V:1" = 20'$



Water Sector Capacity Building and Advisory Services Project  
(PAPFUD)

Ministry of Water & Power Government of Pakistan

RAMMAK DAM SITE ( F.R.D.IRQAN )

NAME OF DRAWING : IRRIGATION CHANNEL  
L-SECTION

GENTEK CONSULT LTD, TURKEY

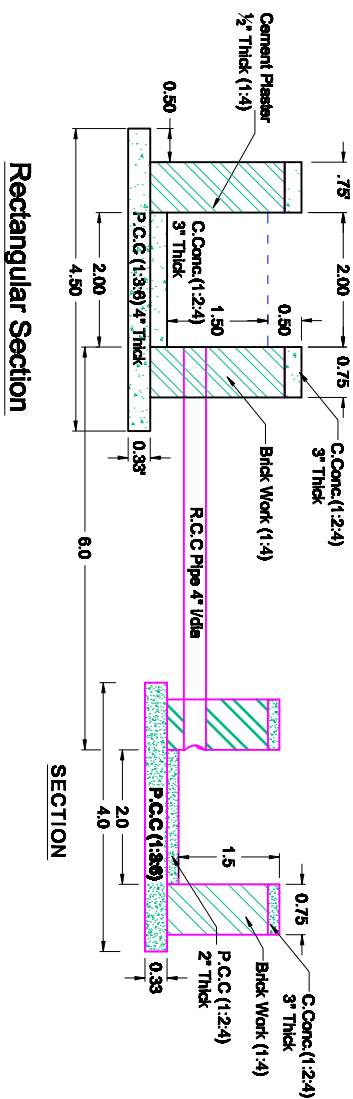
In Association with  
AAB (PVT.) LTD, PAKISTAN

Drawing No. G-2-(4/4)

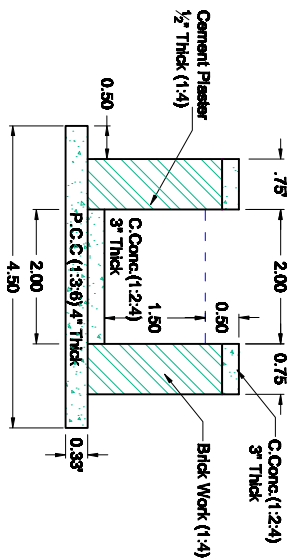
# RAMMAK DAM SITE

IRRIGATION CHANNEL  
 Section of Structures  
 SCALE H & V 1" = 2'

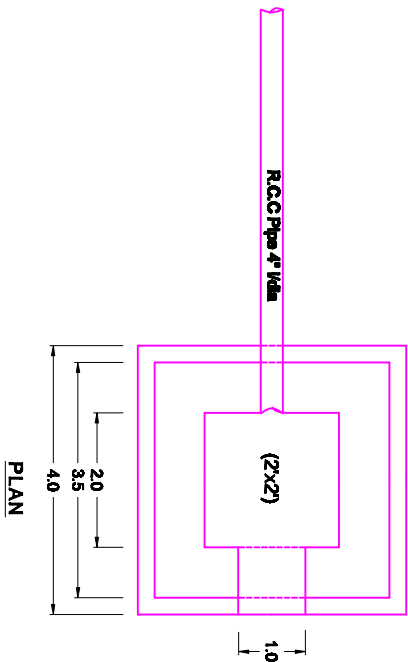
## TYPICAL SECTION OUTLET SUMP



Rectangular Section



Rectangular Section



PLAN

Water Sector Capacity Building and Advisory Services Project  
 (FM/PIU)

Ministry of Water & Power Government of Pakistan

RAMMAK DAM SITE ( F.R.D.IRRAW)

NAME OF DRAWING : IRRIGATION CHANNEL  
 SECTION OF STRUCTURES

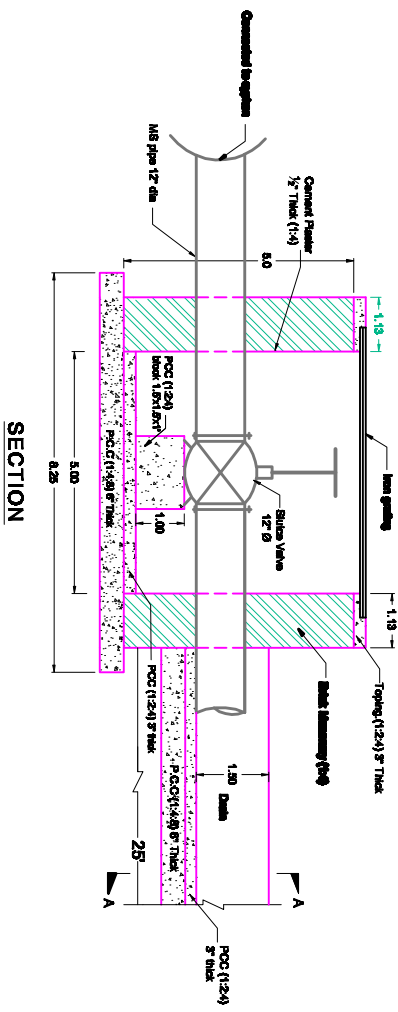
GENTEK CONSULT LTD, TURKEY

In Association with  
 AAB (PVT) LTD, PAKISTAN

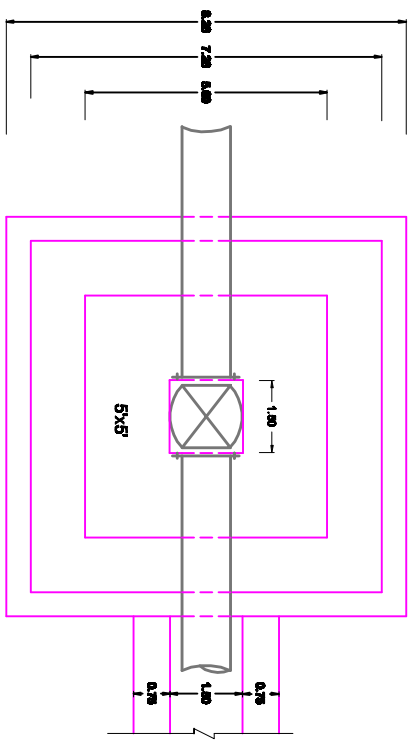
Drawing No. C. 1 - (2/5)

# RAMAK DAM SITE

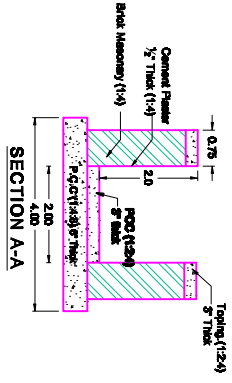
177010101 Channel  
 Stamp for work and verify (03/2023) in system  
**SCALE 1:100**



**SECTION**



**PLAN**

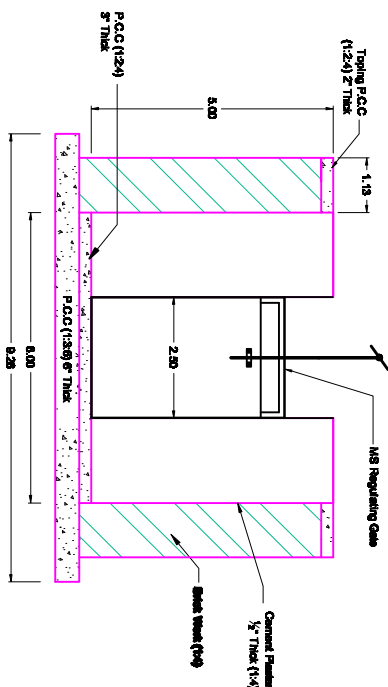


**SECTION A-A**

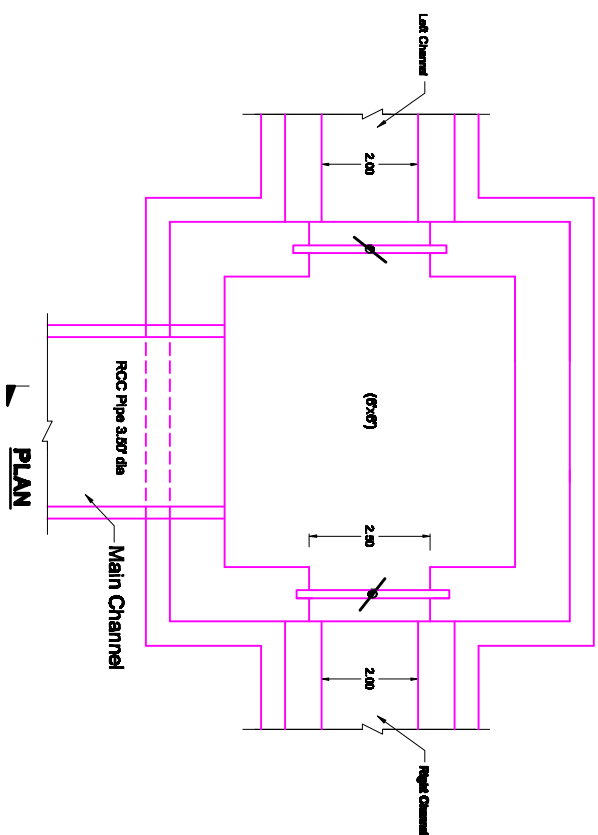
Water Sector Capacity Building and Advisory Services Project Ministry of Water & Power Development of Pakistan <b>RAMAK DAM SITE ( FADJONAMI )</b> NAME OF DRAWING : <b>INSTALLATION CHANNEL SECTION OF STRUCTURES</b> DESIGNER : <b>GENTEK CONSULT LTD, TURKEY</b> IN ASSOCIATION WITH : <b>AAE (PVT) LTD, PAKISTAN</b> Drawing No. G-1-09/18
--

# RAMAK DAM SITE

Irrigation Channel  
 Distributor  
 Scale 1" = 2'



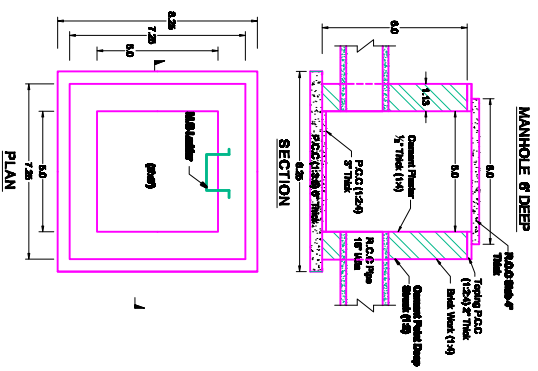
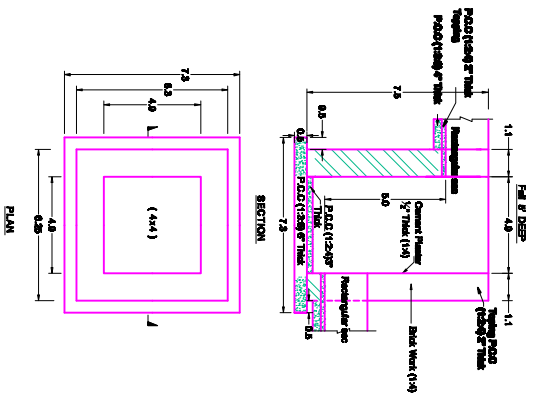
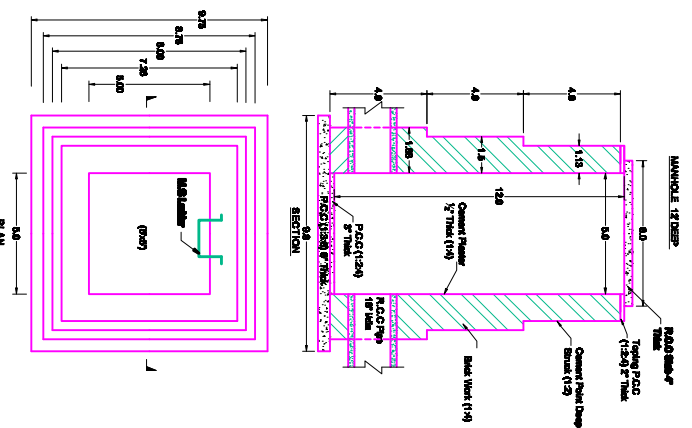
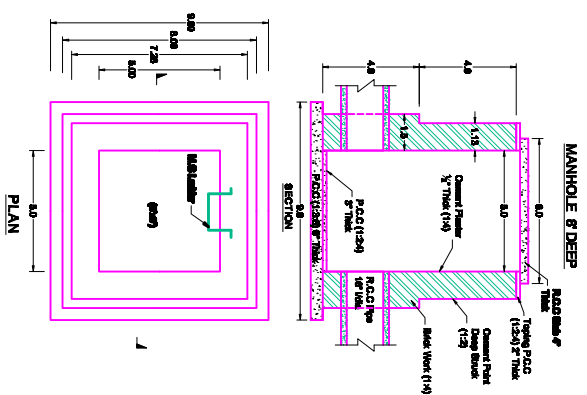
**SECTION**



**PLAN**

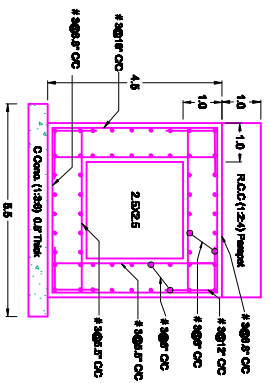
Water Sector Capacity Building and Advisory Services Project (P141710)
Ministry of Water & Power Development of Pakistan
<b>RAMAK DAM SITE (FARDIYAN)</b>
<b>NAME OF DRAWING : IRRIGATION CHANNEL</b>
<b>SECTION OF STRUCTURES</b>
<b>ENGINEER CONSULTANT LTD. TURKEY</b>
In Association with
<b>AAE (PVT) LTD. PAKISTAN</b>
Drawing No. C-1-4/18

**RAMMAK DAM SITE**  
**IRRIGATION CHANNEL**  
 Section of Structures  
 SCALE H & V = 1" = 5'

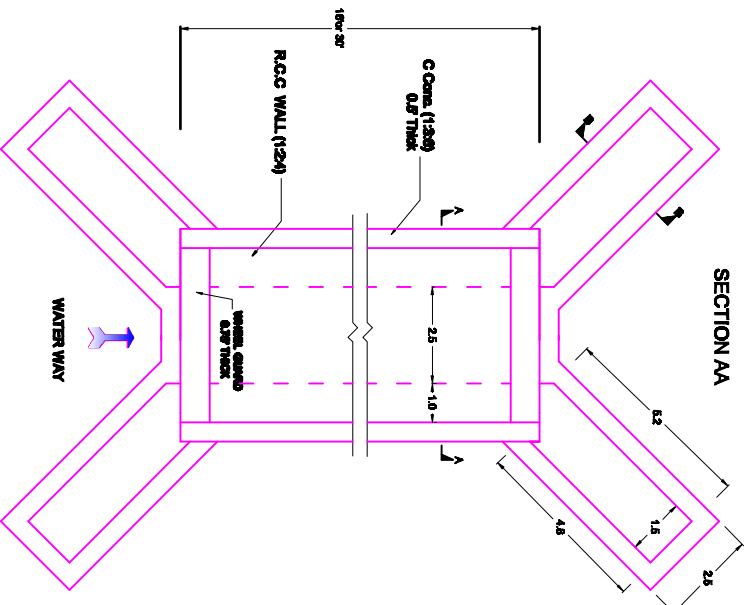


Water Control Capacity Study and Advisory Services Project
Ministry of Water & Power Government of Pakistan
RAMMAK DAM SITE (FARDIYAN)
NAME OF DRAWING : IRRIGATION CHANNEL
SECTION OF STRUCTURES
GEOTEK CONSULT LTD. TURKEY
In Association with
AAE (PVT) LTD. PAKISTAN
Drawing No. G-1-4/19

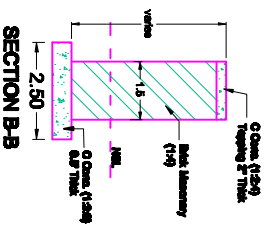
**RAMAK DAM SITE**  
**IRRIGATION CHANNEL STRUCTURES**  
 CULVERT 16' LONG  
 SCALE H & V 1" = 2.5'



**SECTION AA**



**PLAN**

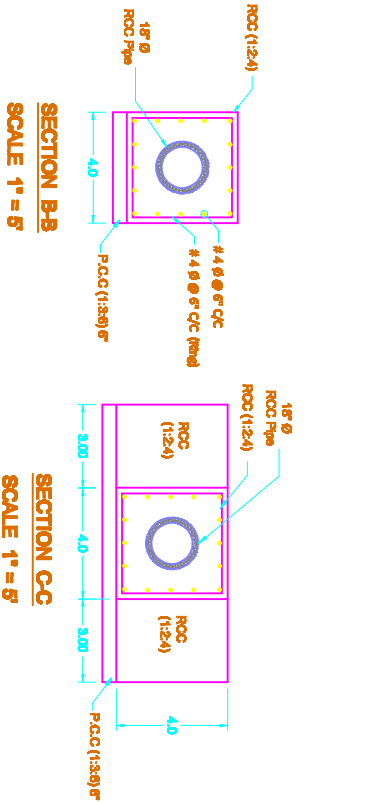
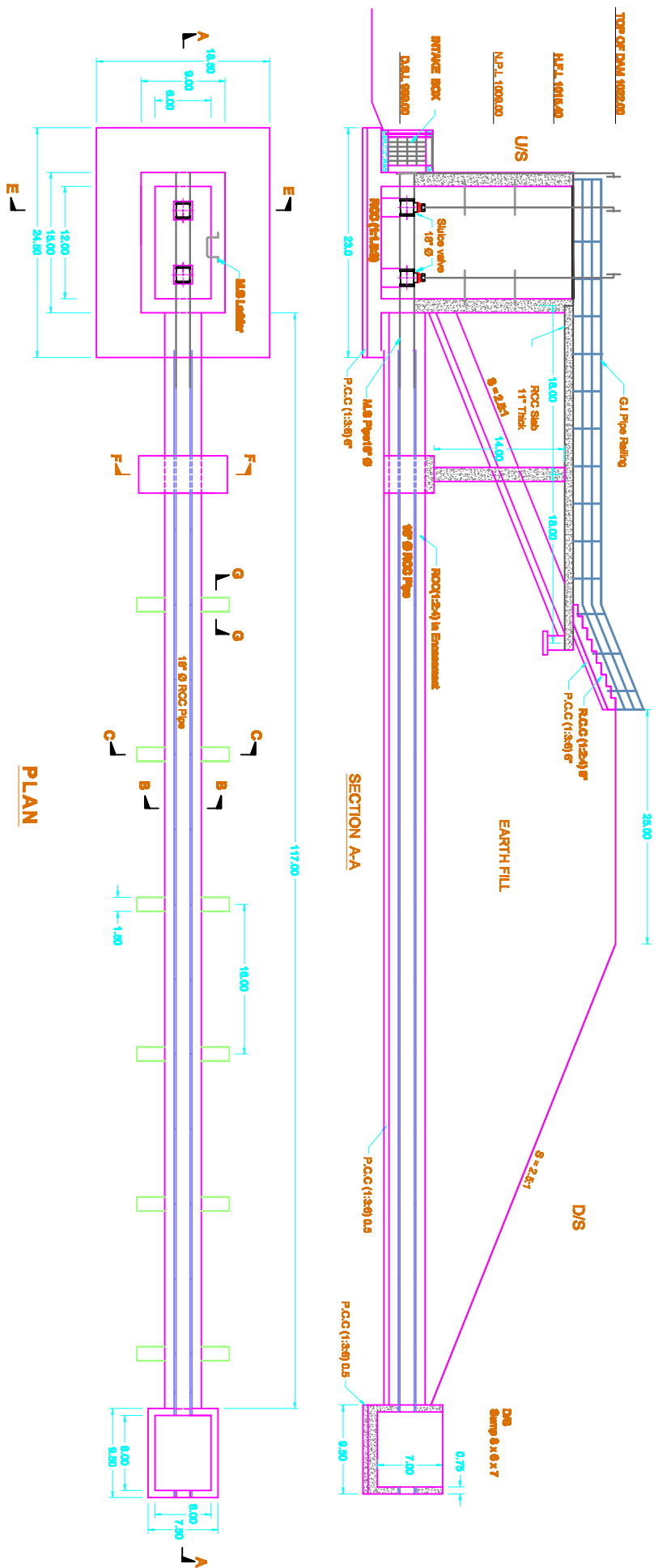


**SECTION B-B**

Water Sector Capacity Building and Advisory Services Project (M/11/1)
Ministry of Water & Power Government of Pakistan
<b>RAMAK DAM SITE ( F2020/2021 )</b>
<b>NAME OF DRAWING : IRRIGATION CHANNEL</b>
<b>SECTION OF STRUCTURE : CULVERT 16' LONG</b>
<b>DESIGNER CONSULTANT LTD. TORNEY</b>
In Association with
<b>AAE (PVT.) LTD. PAKISTAN</b>
Drawing No. G-1-16/19

**INTAKE / OUTLET  
STRUCTURE**

**RAMMAK DAM SITE**  
**INTAKE STRUCTURE**  
 SCALE H & V 1" = 12'



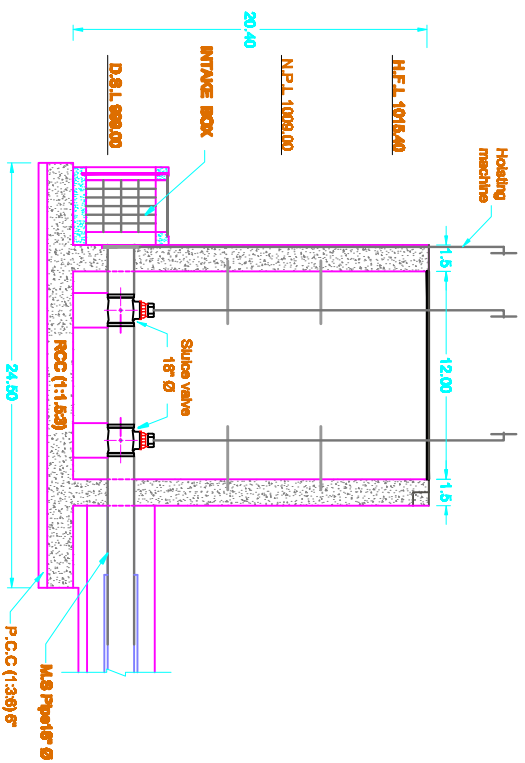
Water Sector Capacity Building and Advisory Services Project (PM/PIU) Ministry of Water & Power Government of Pakistan
<b>RAMMAK DAM SITE ( F.R.D.IRKAN )</b>
<b>NAME OF DRAWING :</b> INTAKE STRUCTURE
<b>GENTEK CONSULT LTD, TURKEY</b> In Association with <b>AAB (PVT.) LTD, PAKISTAN</b>
Drawing No. I/O. 1-(1/5)



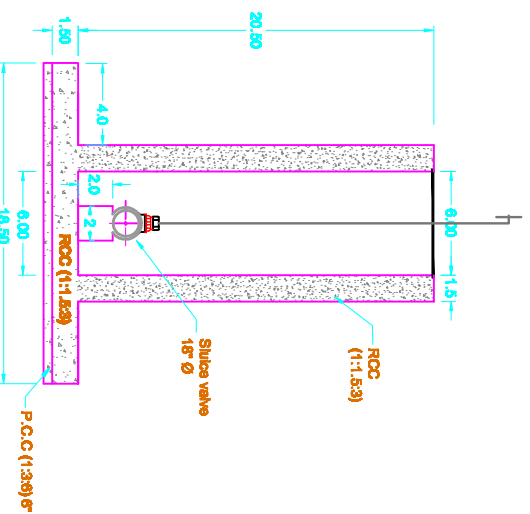
# RAMNAK DAM SITE

INTAKE STRUCTURE

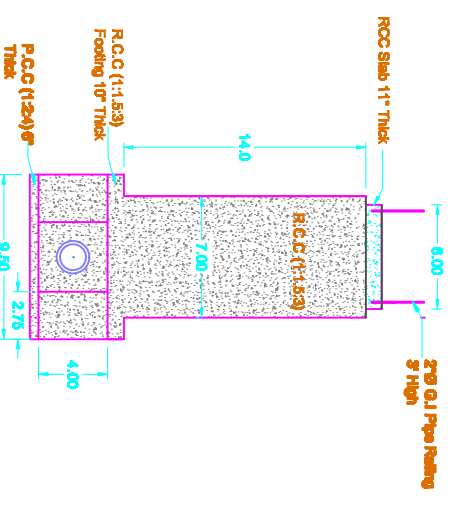
SCALE H & V 1" = 8'



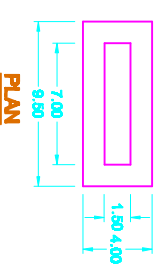
SECTION D-D



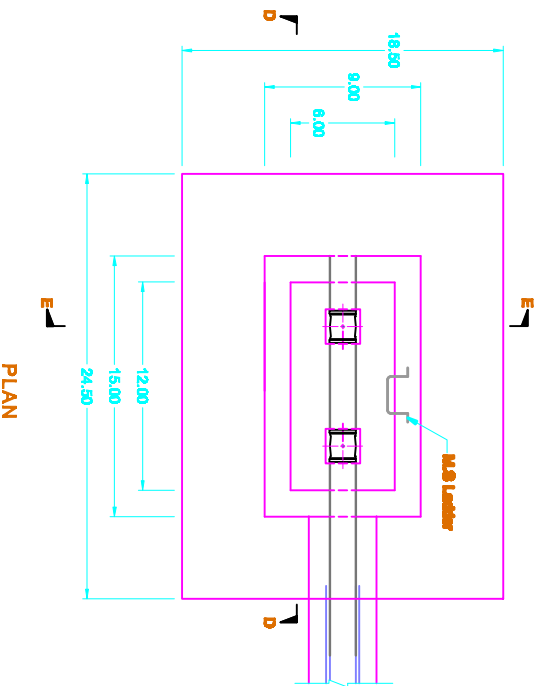
SECTION E-E



SEC. OF COLUMN AT F-F



PLAN



PLAN

Water Sector Capacity Building and Advisory Services Project

(PAP/PJ)

Ministry of Water & Power Government of Pakistan

RAMNAK DAM SITE ( F.R.D/JIKM)

NAME OF DRAWING :

INTAKE STRUCTURE

GENTEK CONSULT LTD, TURKEY

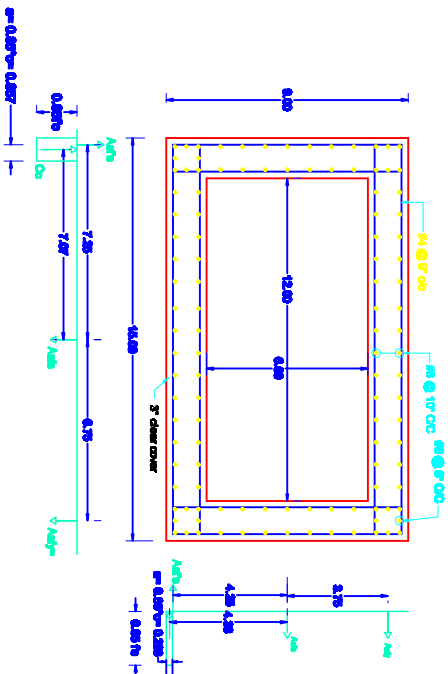
In Association with

MAB (PVT.) LTD, PAKISTAN

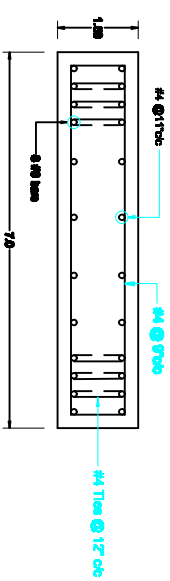
Drawing No. I/O.1-(2/5)

# RAMMAK DAM SITE

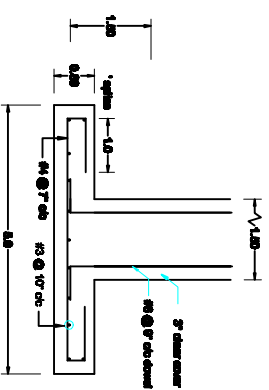
INTAKE / OUTLET STRUCTURE  
 DETAIL OF REINFORCEMENT  
 SCALE H & V 1" = 5'



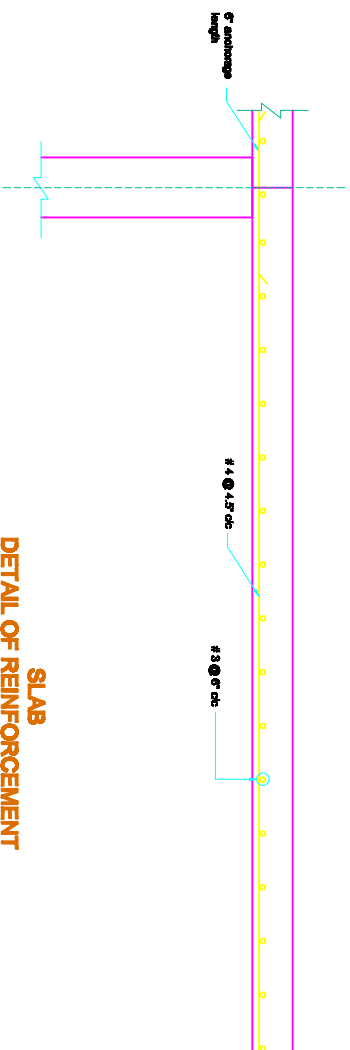
PLAN INLET TOWER  
 DETAIL OF REINFORCEMENT



PLAN OF COLUMN



FOOTING OF COLUMNS



SLAB  
 DETAIL OF REINFORCEMENT

- NOTE:  
 1. MINIMUM YIELD STRENGTH OF STEEL, 60,000 PSI.  
 2. ALL DIMENSIONS ARE IN FEET

Water Sector Capacity Building and Advisory Services Project  
 Ministry of Water & Power, Government of Pakistan  
 RAMMAK DAM SITE ( FARAJIQUAN )

NAME OF DRAWING : INTAKE / OUTLET STRUCTURE  
 DETAIL OF REINFORCEMENT  
 GENTER CONSULT LTD, TURKEY  
 In Association with  
 MAB (PVT.) LTD, PAKISTAN

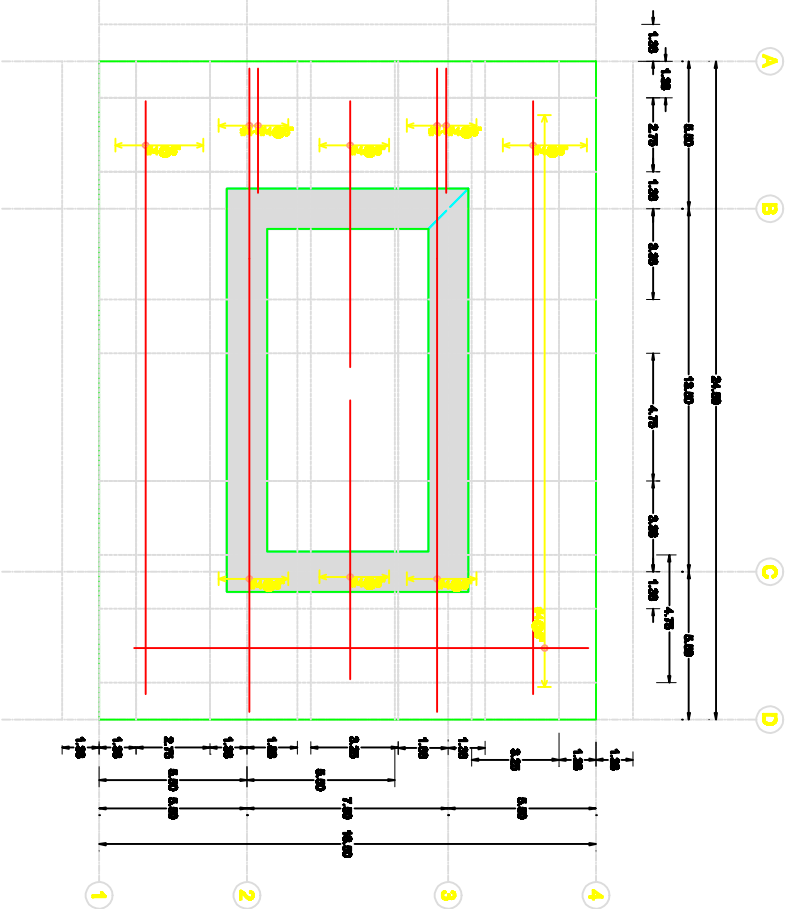
Drawing No. I/O. 1 - (2/15)



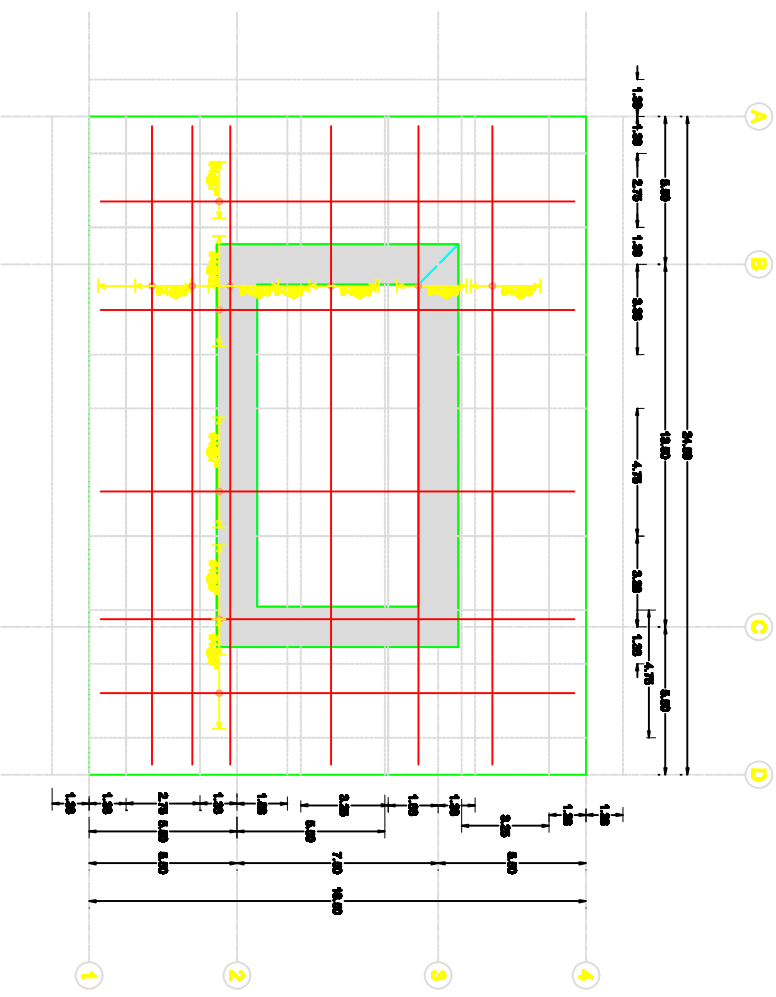
# RAMMAK DAM SITE

INTAKE / OUTLET STRUCTURE  
DETAIL OF REINFORCEMENT  
SCALE H & V 1" = 5'

Rammak Dam Site  
Intek Tower Mat Foundation



Rammak Dam Site  
Intek Tower Mat Foundation



- NOTE
1. MINIMUM YIELD STRENGTH OF STEEL, 60,000 PSI.
  2. ALL DIMENSIONS ARE IN FEET.

Water Gender Capacity Building and Advisory Services Project  
Ministry of Water & Power, Government of Pakistan  
(GWP/PL)

RAMMAK DAM SITE ( FARDIQQAN )

NAME OF DRAWING : INTAKE / OUTLET STRUCTURE  
DETAIL OF REINFORCEMENT

GENTEK CONSULT LTD, TURKEY  
IN ASSOCIATION WITH  
MAB (PVT.) LTD, PAKISTAN

Drawing No. I/O.1-(4/5)