

**Shillong Smart City Limited**

**Shillong, Meghalaya**

**Bidding Document**

**for**

**Waste Water Treatment through In-situ  
Nallah Treatment Technology at various  
locations in Shillong, East Khasi Hills District,  
Meghalaya under Smart Cities Mission**

**Annexure 2: Section 6 - Drawings**

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Tender No.: SSCL/Tender/2021-22/MEG-SHI-013

**Office of the Shillong Smart City Limited**

House No. C/B-037, Top Floor,  
Centre Nongrim Hills, Near JJ Cables, Shillong,  
East Khasi Hills District, Meghalaya – 793003



- GENERAL NOTES:**
1. ALL THE DIMENSIONS ARE IN MM, IF OTHERWISE SPECIFIED.
  2. ANY CHANGES OR RECOMMENDATIONS IN THE DRAWING SHOULD BE SHARED WITH THE SUB CONSULTANT FOR APPROVAL & DISCUSSION.

**LEGEND**

CONCRETE	
FRP SHEET	
MILD STEEL	
WATER LEVEL	
BOTTOM LEVEL OF DRAIN	
NATURAL BOUNDARY OF DRAIN	
LINED BOUNDARY OF DRAIN	
COVERED PORTION OF DRAIN	
PROPOSED RENEU STRETCH	
BRIDGE	

CLIENT / OWNER **SHILLONG SMART CITY LIMITED**

SUBMITTED BY/ ARCHITECT ON RECORD **IPE GLOBAL LIMITED**  
B-84, Defence Colony, New Delhi -110024

SUB CONSULTANT  
**EMERGY ENVIRO PRIVATE LIMITED**  
**SINE IIT BOMBAY COMPANY**  
CM02, 3rd Floor, CSRE Building, IIT Bombay, Powai, Mumbai - 400076



PROJECT NAME:  
**UMKHRAH RIVER CLEANING**

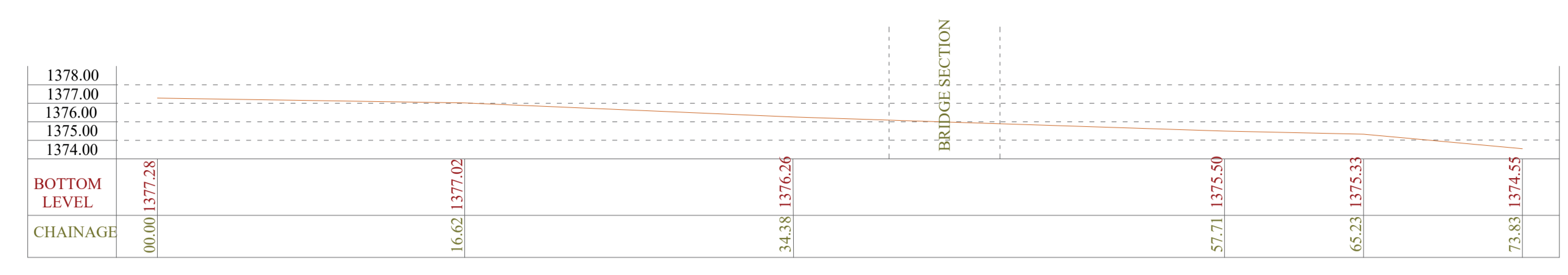
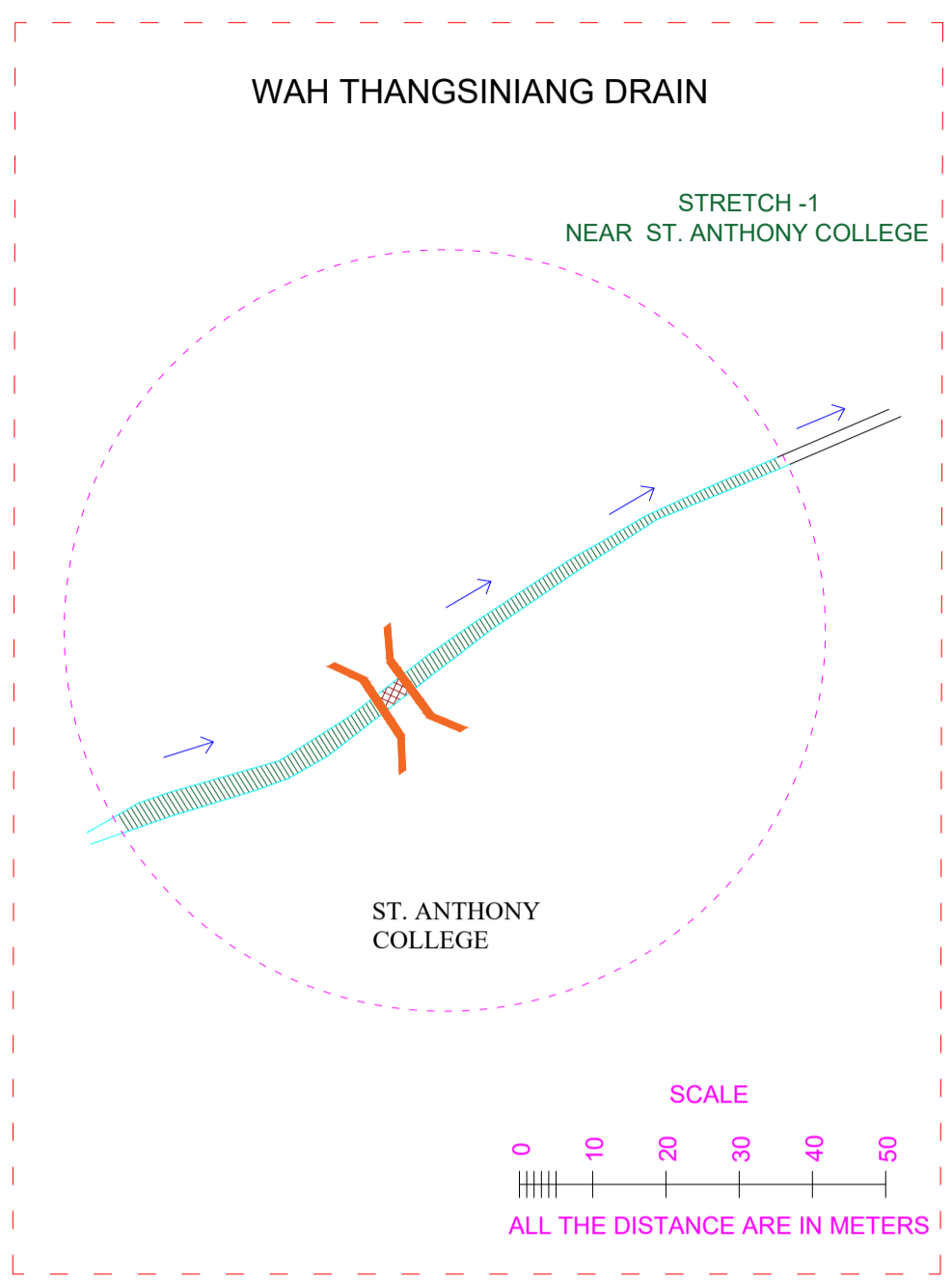
REV	DATE	DESCRIPTION	APPROVED
0	07/04/21	LONGITUDINAL SECTION DRAWING	IKJ

**REVISION INDEX**

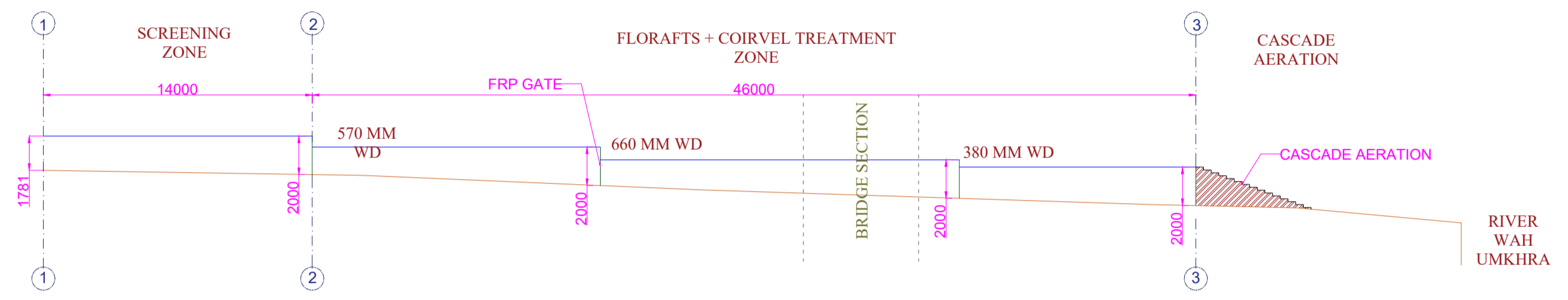
DRAWING TITLE  
**LONGITUDINAL SECTION OF RENEU TREATMENT ON WAH THANGSINIANG DRAIN (PART- I)**

FOR APPROVAL OF COMPETENT AUTHORITY	DATE 07/04/2021	DRAWN MD
	SCALE NTS	SHEET SIZE A1
		CHECKED RH
		APPROVED IKJ

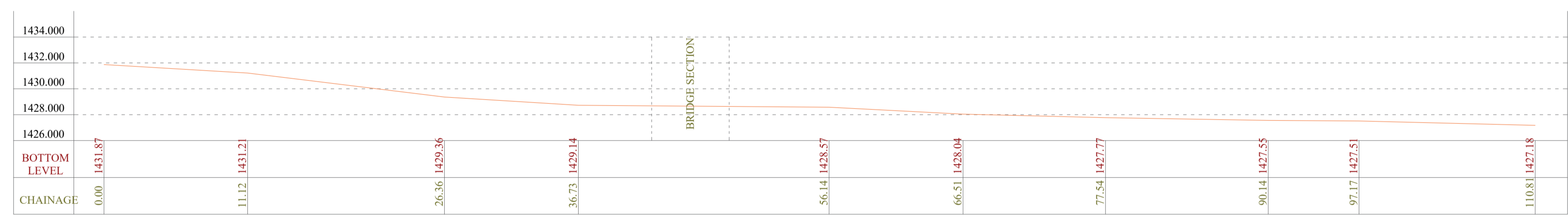
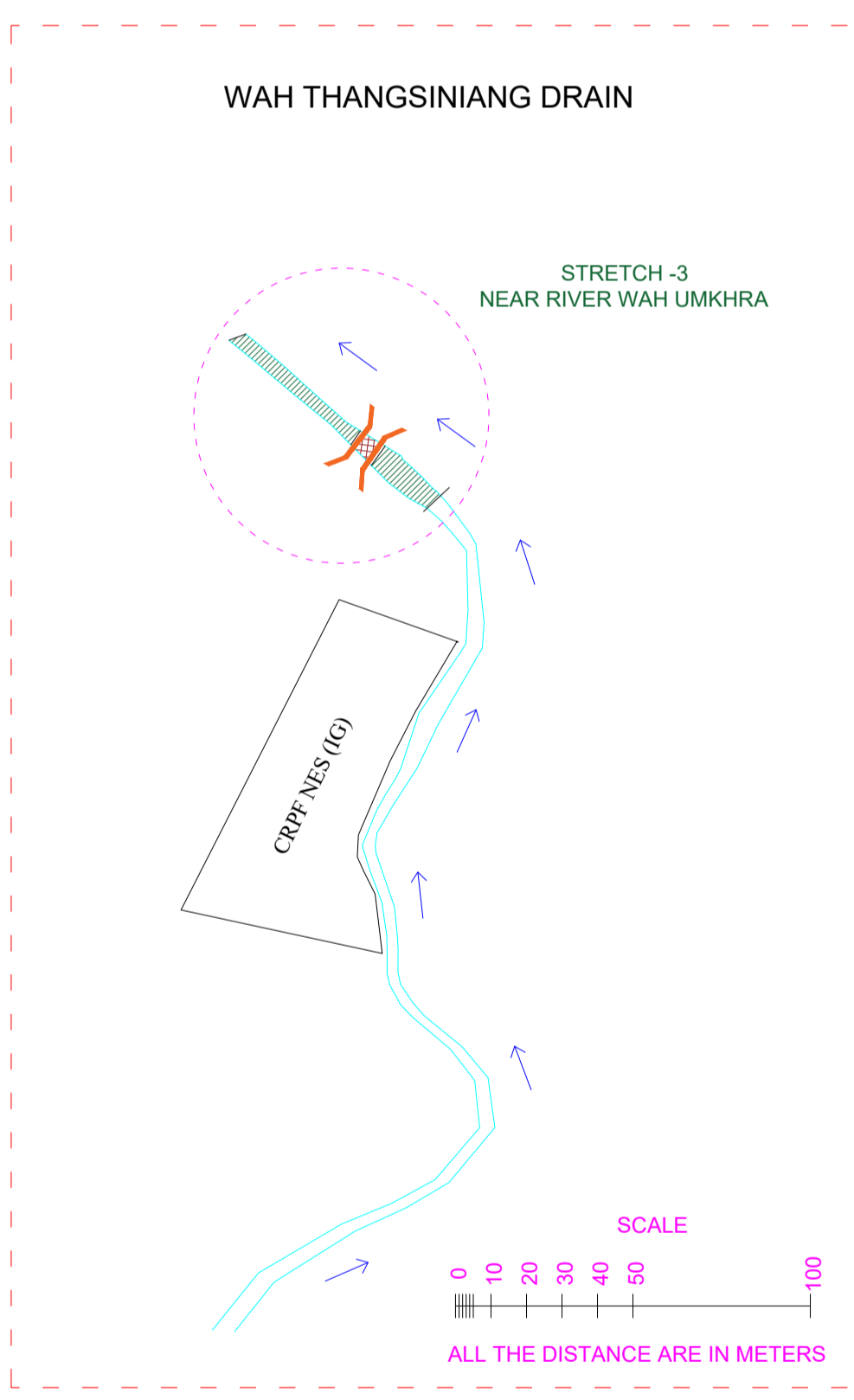
DRAWING NO. IPE/SSCL/  
REVISION NO. 0



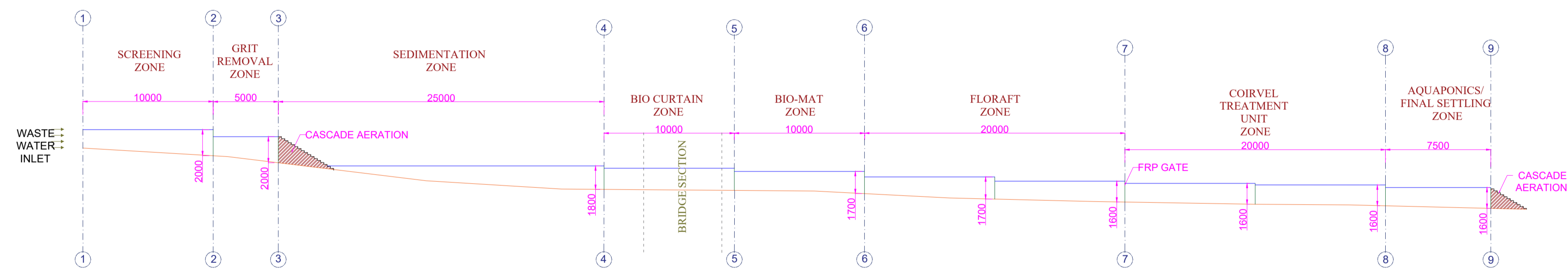
LONGITUDINAL SECTION OF STRETCH -3 (NEAR RIVER WAH UMKHRA) : 0.00 TO 73.83 M



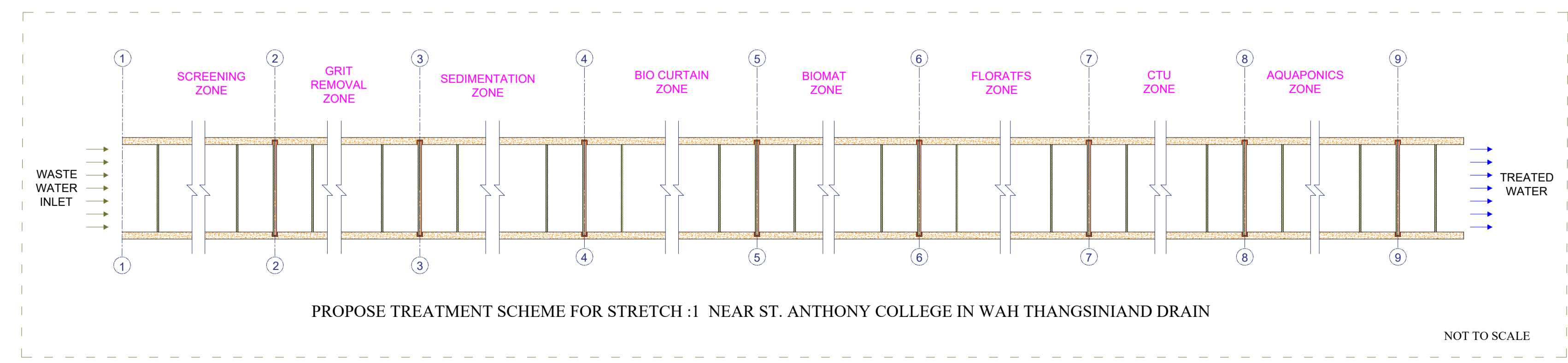
LOGITUDINAL SECTION & PROPOSED TREATMENT DETAILING FOR STRETCH -3 (NEAR RIVER WAH UMKHRA)



LONGITUDINAL SECTION OF STRETCH -1 (NEAR ST. ANTHONY COLLEGE) : 0.00 TO 110.81 M

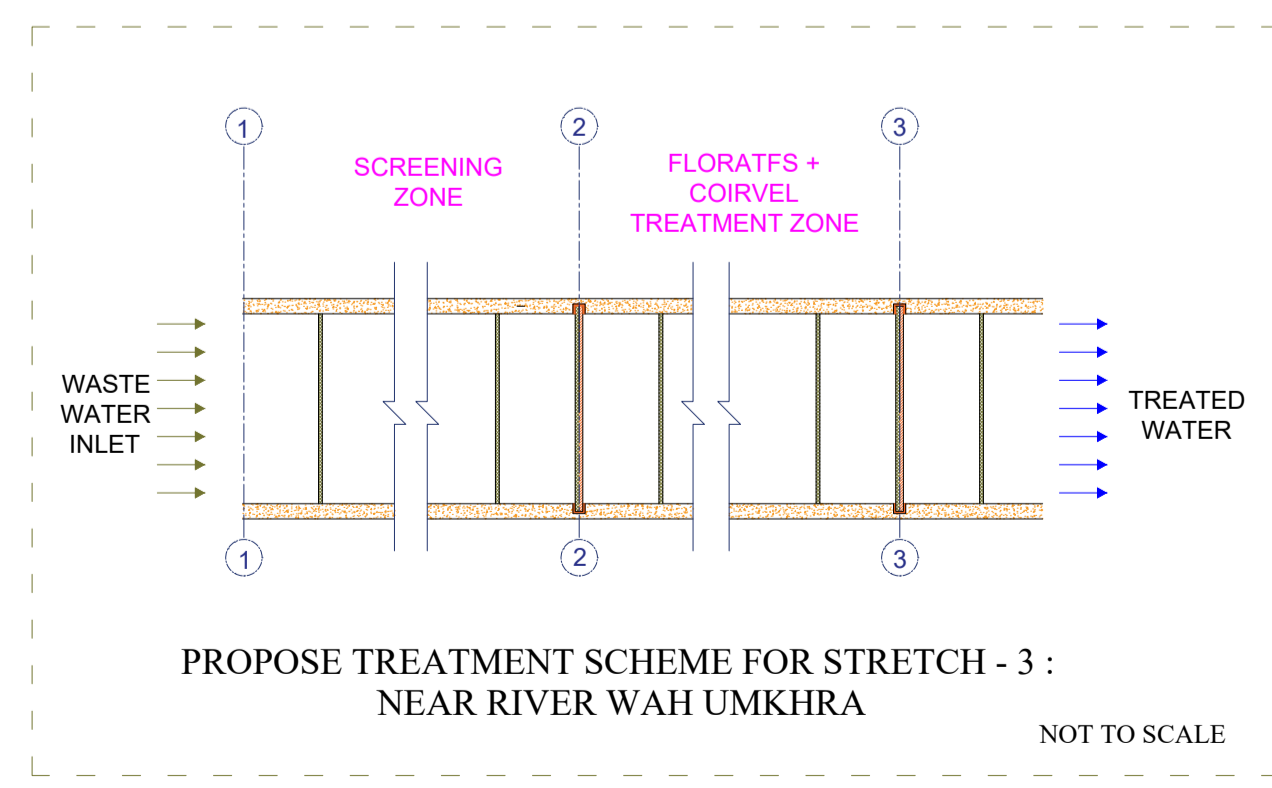


LONGITUDINAL SECTION & PROPOSED TREATMENT DETAILING FOR STRETCH -1 (NEAR ST. ANTHONY COLLEGE)



PROPOSE TREATMENT SCHEME FOR STRETCH :1 NEAR ST. ANTHONY COLLEGE IN WAH THANGSINIANG DRAIN

NOT TO SCALE



PROPOSE TREATMENT SCHEME FOR STRETCH - 3 : NEAR RIVER WAH UMKHRA

NOT TO SCALE



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**LEGEND**

CONCRETE	
FRP SHEET	
MILD STEEL	
WATER LEVEL	
BOTTOM LEVEL OF DRAIN	
NATURAL BOUNDARY OF DRAIN	
LINED BOUNDARY OF DRAIN	
COVERED PORTION OF DRAIN	
PROPOSED RENEU STRETCH	
BRIDGE	

CLIENT / OWNER **SHILLONG SMART CITY LIMITED**

SUBMITTED BY/ ARCHITECT ON RECORD **IPE GLOBAL LIMITED**  
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SUB CONSULTANT **EMERGY ENVIRO PRIVATE LIMITED**  
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CM02, 3rd Floor, CSRE Building, IIT Bombay, Powai, Mumbai - 400076



PROJECT NAME:  
**UMKHRAH RIVER CLEANING**

REV	DATE	DESCRIPTION	APPROVED
0	07/04/21	LONGITUDINAL SECTION DRAWING	IKJ

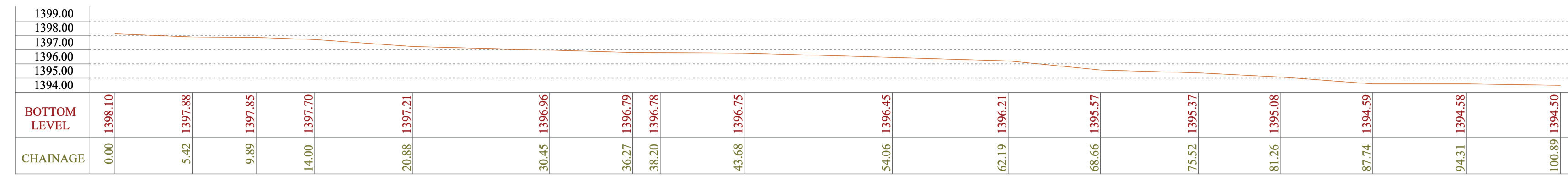
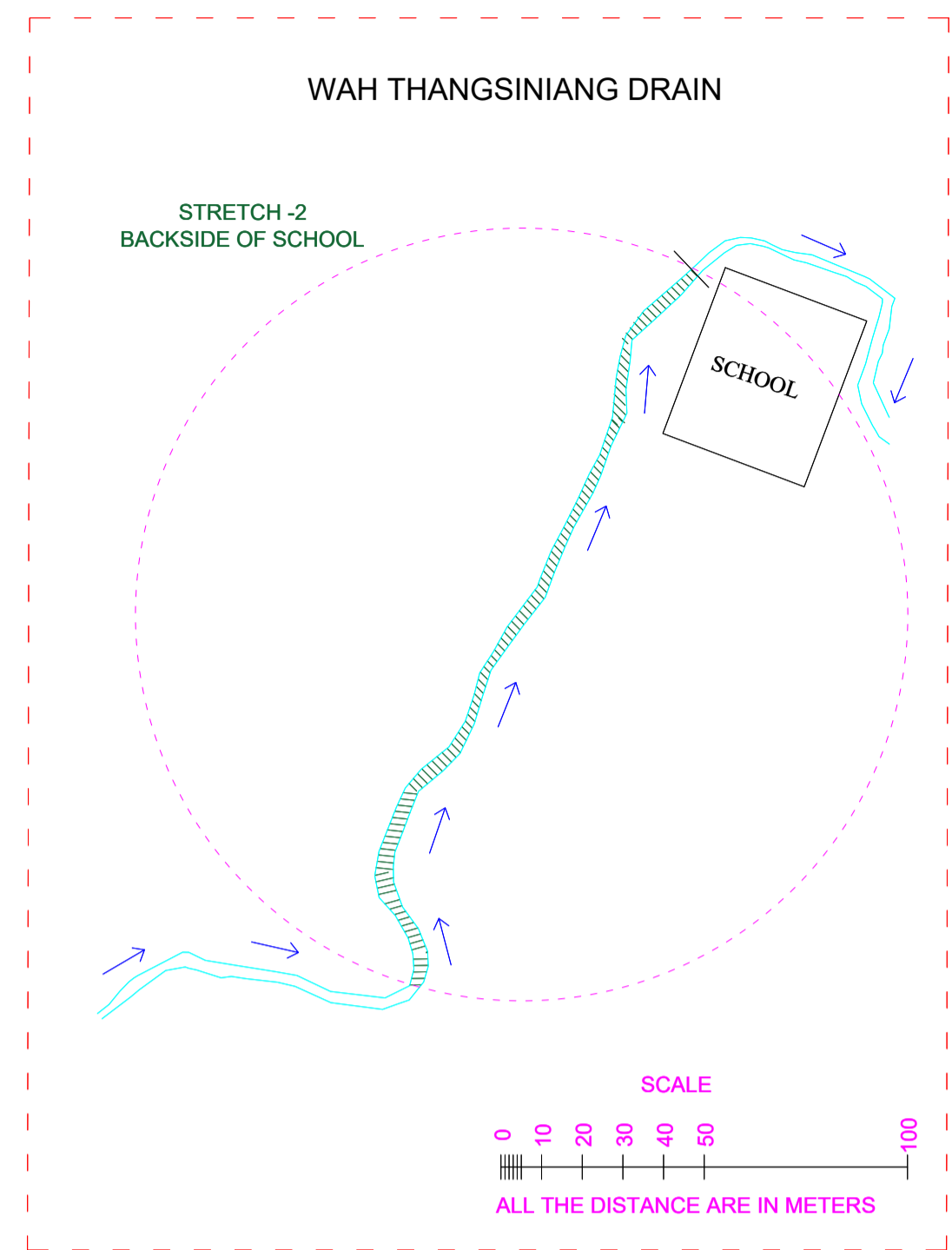
**REVISION INDEX**

**DRAWING TITLE**

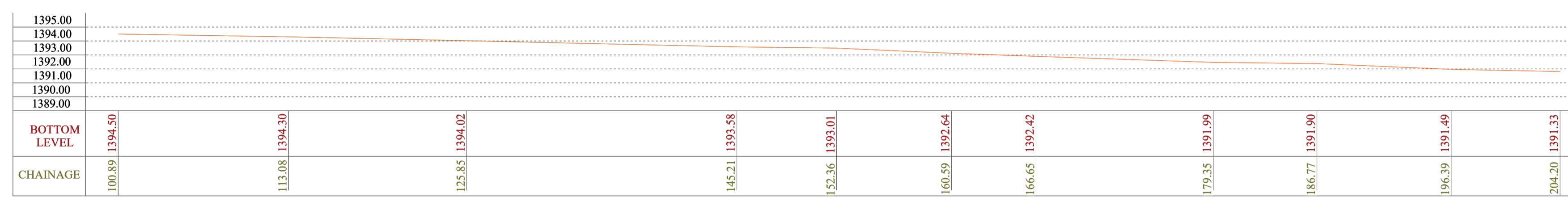
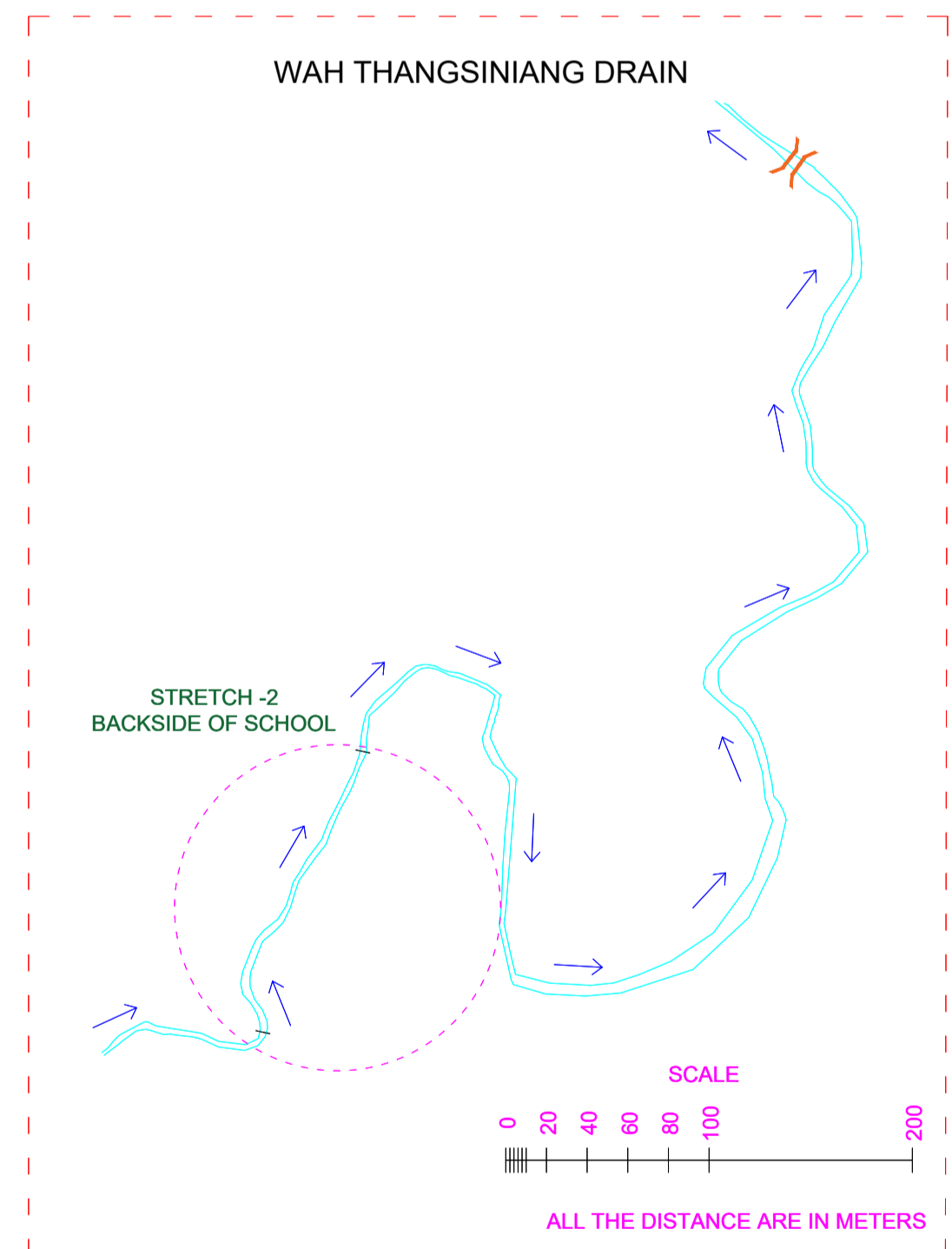
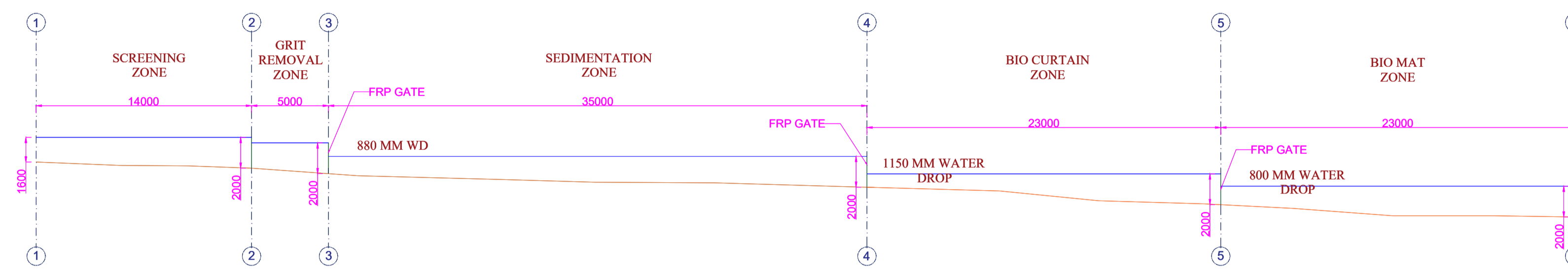
LONGITUDINAL SECTION OF RENEU TREATMENT FOR WAH THANGSINIANG DRAIN (PART- II)

FOR APPROVAL OF COMPETENT AUTHORITY	DATE	DRAWN
	10/05/2021	
	SCALE	CHECKED
	NTS	RH
	SHEET SIZE	APPROVED
	A1	IKJ

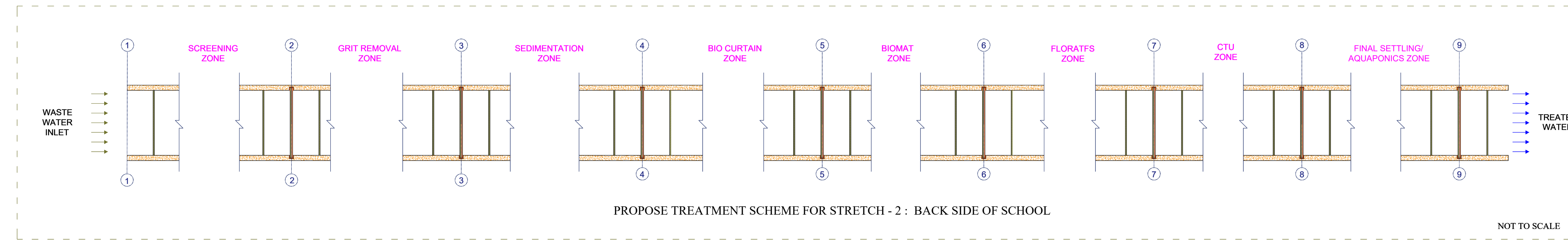
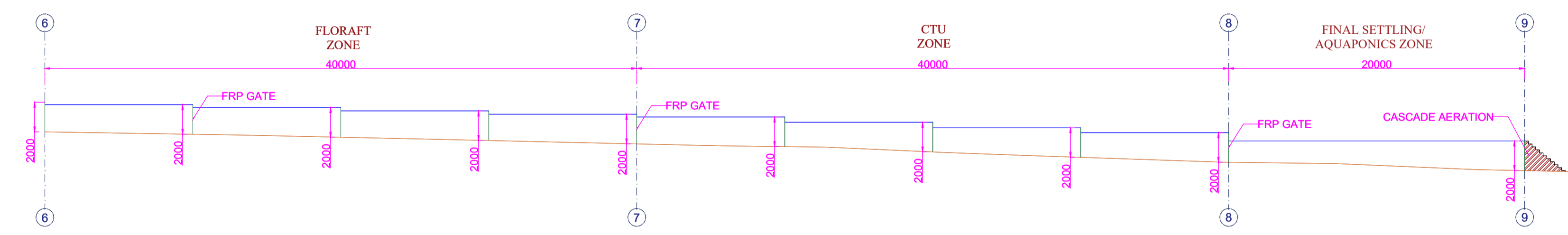
DRAWING NO. IPE/SSCL/  
REVISION NO. 0

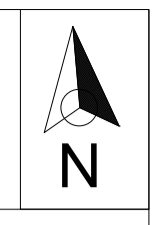


LONGITUDINAL SECTION OF STRETCH -2 (BACKSIDE OF SCHOOL) : 0.00 TO 100.89 M

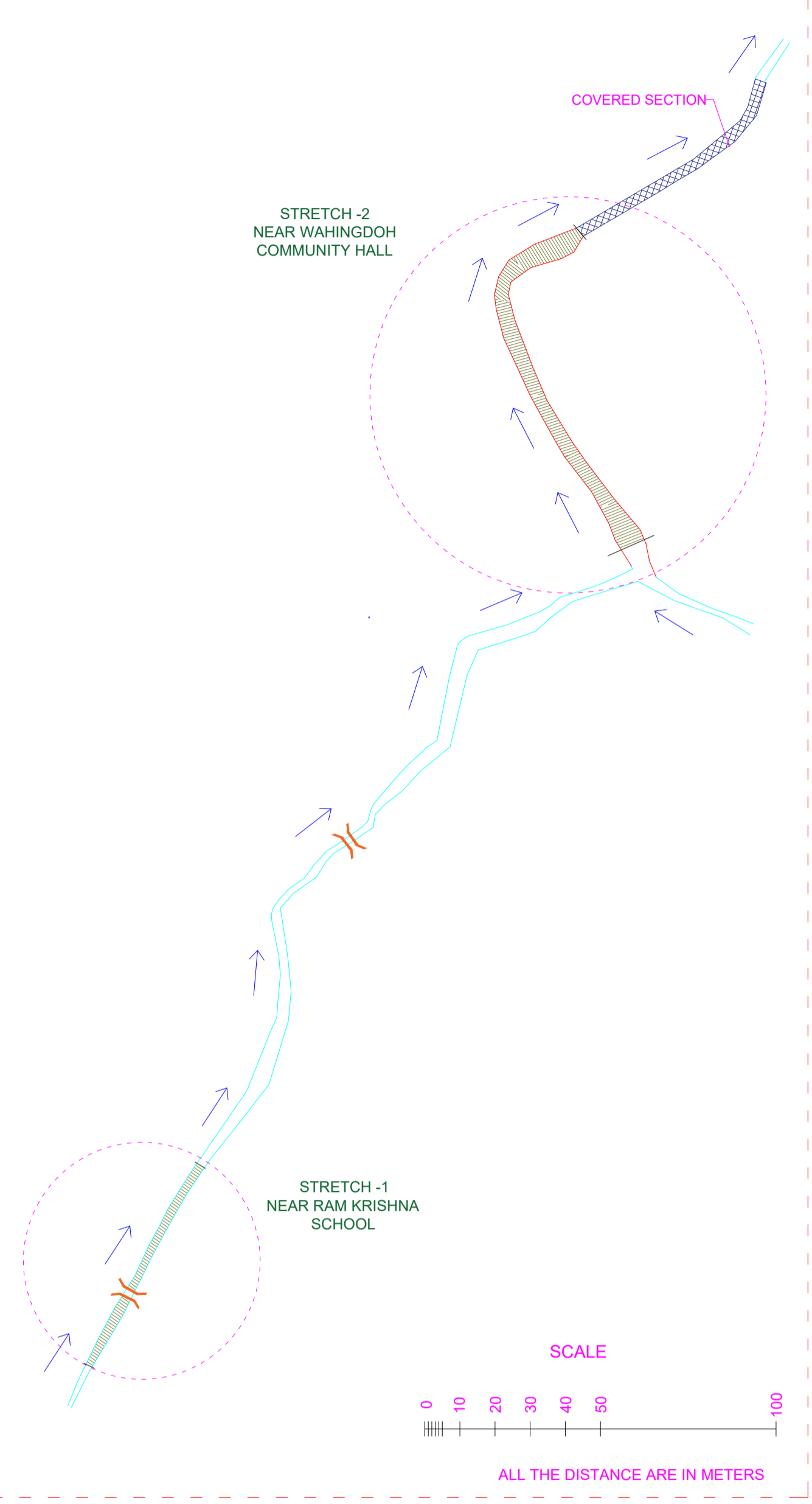


LONGITUDINAL SECTION OF STRETCH -2 (BACK SIDE OF SCHOOL) : 100.89 TO 204.20 M



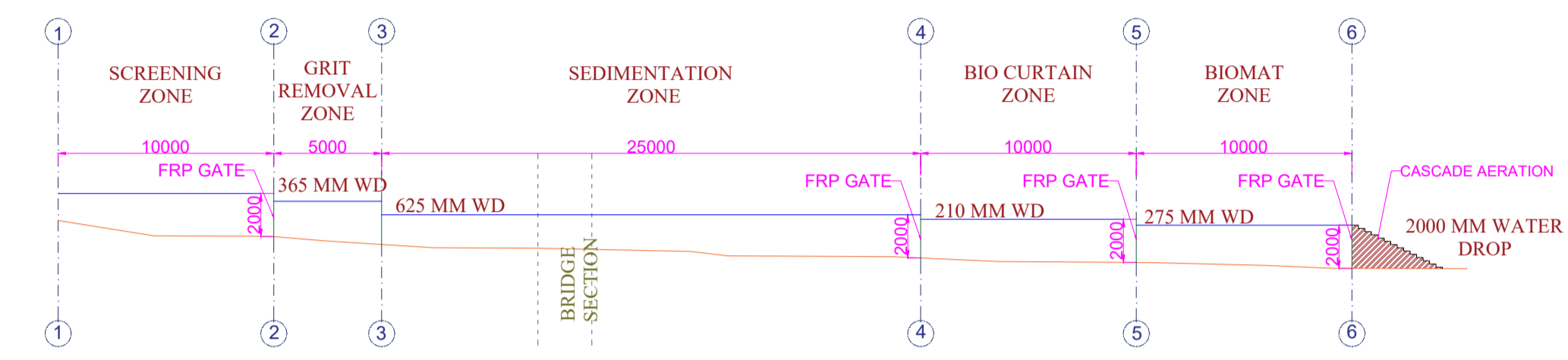


WAHINGDOH RAIMOHAN DRAIN



	0.00	4.44	9.86	12.41	17.40	22.49	24.75	29.40	31.07	38.68	43.63	50.68	55.99	59.13	61.61	65.32
BOTTOM LEVEL	1399.39	1398.68	1398.66	1398.44	1398.13	1398.11	1397.96	1397.96	1397.75	1397.71	1397.49	1397.44	1397.31	1397.17	1397.16	
CHAINAGE																

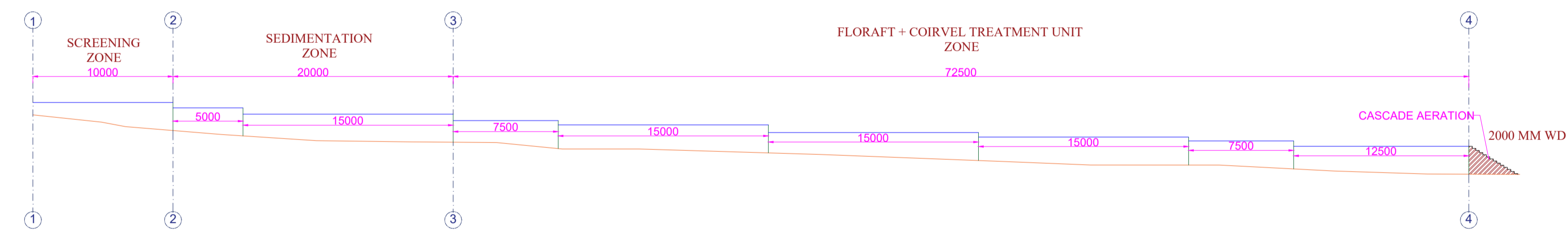
LONGITUDINAL SECTION OF STRETCH -1 : 0.00 TO 65.32 M



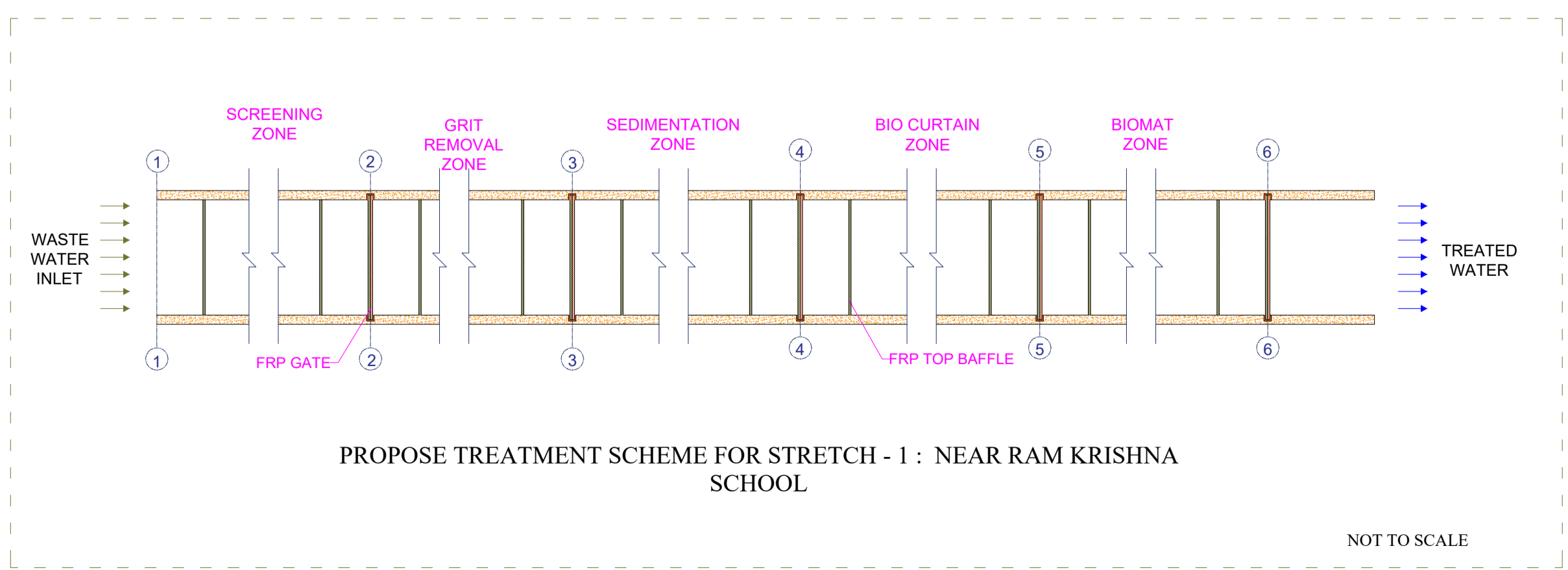
LONGITUDINAL SECTION & PROPOSED TREATMENT DETAILING FOR STRETCH -1 (NEAR RAM KRISHNA SCHOOL)

	0.00	4.89	6.60	13.45	20.23	27.05	28.11	33.09	37.77	43.25	56.20	69.14	75.50	84.68	92.93	99.53	106.14
BOTTOM LEVEL	1377.74	1377.23	1376.90	1376.34	1376.90	1375.82	1375.81	1375.77	1375.31	1375.38	1374.92	1374.42	1374.17	1374.16	1373.73	1373.52	1373.59
CHAINAGE																	

LONGITUDINAL SECTION FOR STRETCH -2 : 0.00 TO 100.89 M

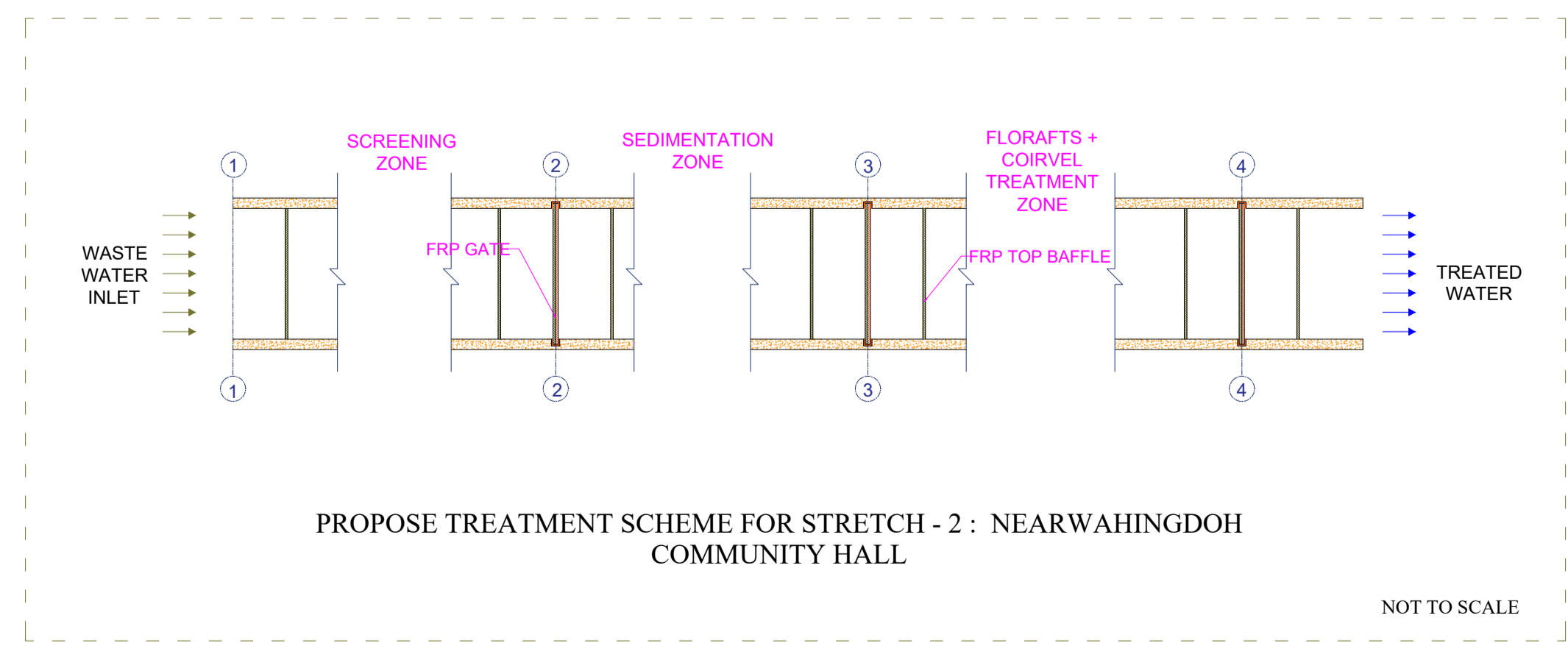


LONGITUDINAL SECTION & PROPOSED TREATMENT DETAILING FOR STRETCH -2 (NEAR WAHINGDOH COMMUNITY HALL)



PROPOSE TREATMENT SCHEME FOR STRETCH - 1 : NEAR RAM KRISHNA SCHOOL

NOT TO SCALE



PROPOSE TREATMENT SCHEME FOR STRETCH - 2 : NEAR WAHINGDOH COMMUNITY HALL

NOT TO SCALE

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LEGEND

CONCRETE	
FRP SHEET	
MILD STEEL	
WATER LEVEL	
BOTTOM LEVEL OF DRAIN	
NATURAL BOUNDARY OF DRAIN	
LINED BOUNDARY OF DRAIN	
COVERED PORTION OF DRAIN	
PROPOSED RENEU STRETCH	
BRIDGE	

CLIENT / OWNER	<b>SHILLONG SMART CITY LIMITED</b>
SUBMITTED BY/ ARCHITECT ON RECORD	<b>IPE GLOBAL LIMITED</b> B-84, Defence Colony, New Delhi -110024
SUB CONSULTANT	<b>EMERGY ENVIRO PRIVATE LIMITED</b> <b>SINE IIT BOMBAY COMPANY</b> CM02, 3rd Floor, CSRE Building, IIT Bombay, Powai, Mumbai - 400076

PROJECT NAME:  
UMKHRAH RIVER CLEANING

0	07/04/21	LONGITUDINAL SECTION DRAWING	IKJ
REV	DATE	DESCRIPTION	APPROVED

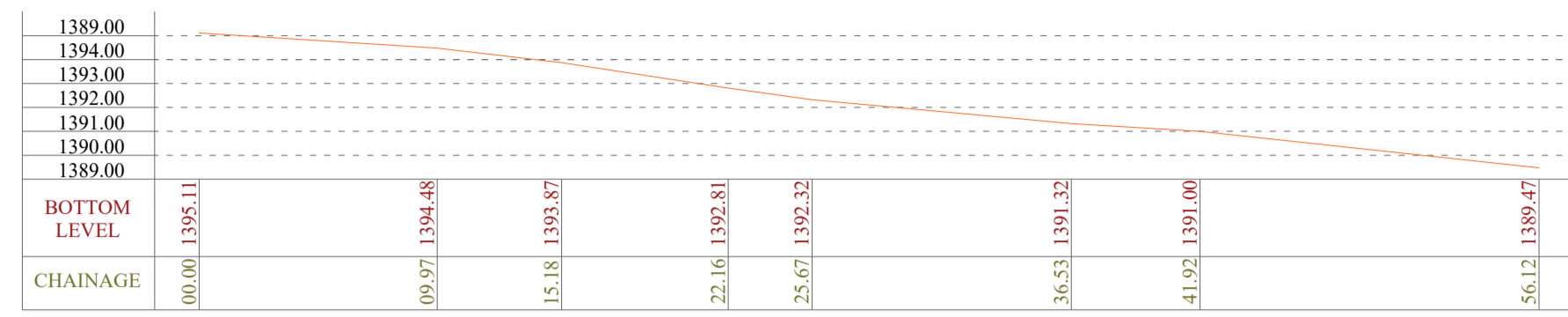
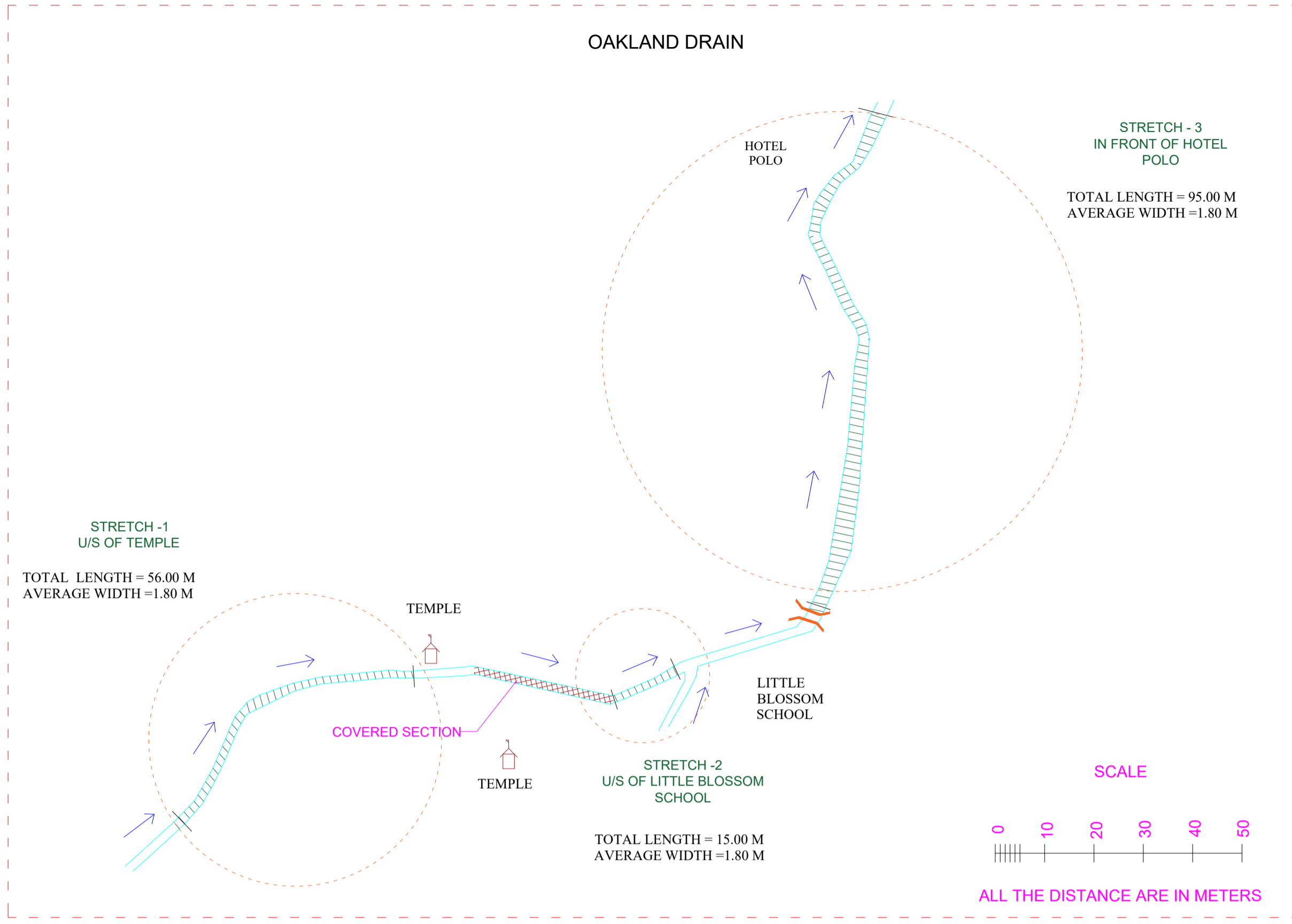
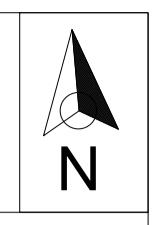
REVISION INDEX

DRAWING TITLE  
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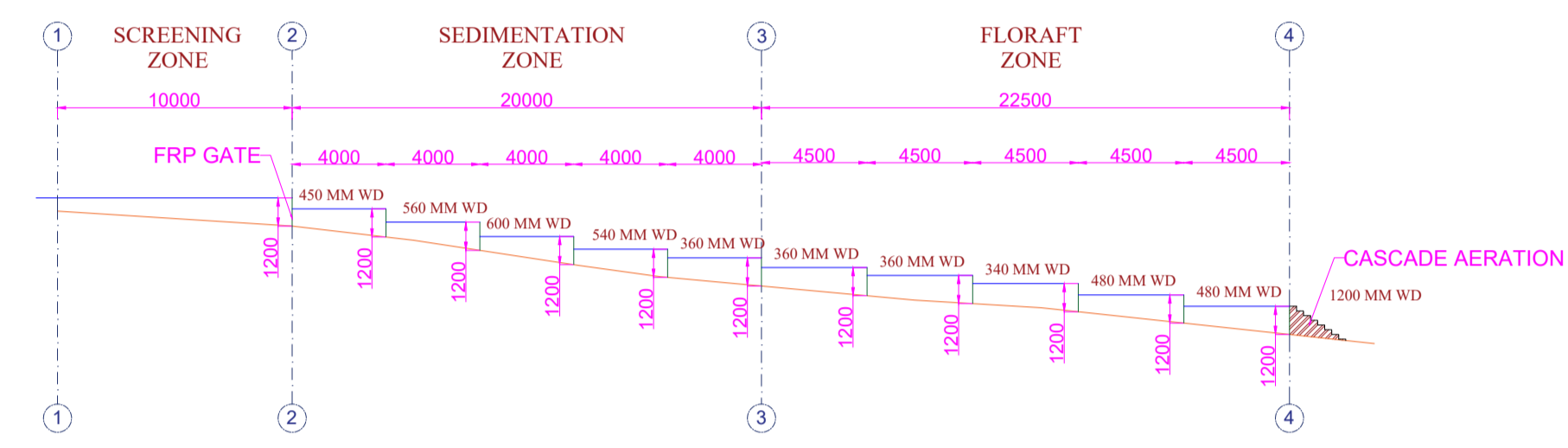
FOR APPROVAL OF COMPETENT AUTHORITY	DATE	10/05/2021	DRAWN	MD
	SCALE	NTS	SHEET SIZE	A1
			CHECKED	RH
			APPROVED	IKJ

DRAWING NO.  
IPE/SSCL/

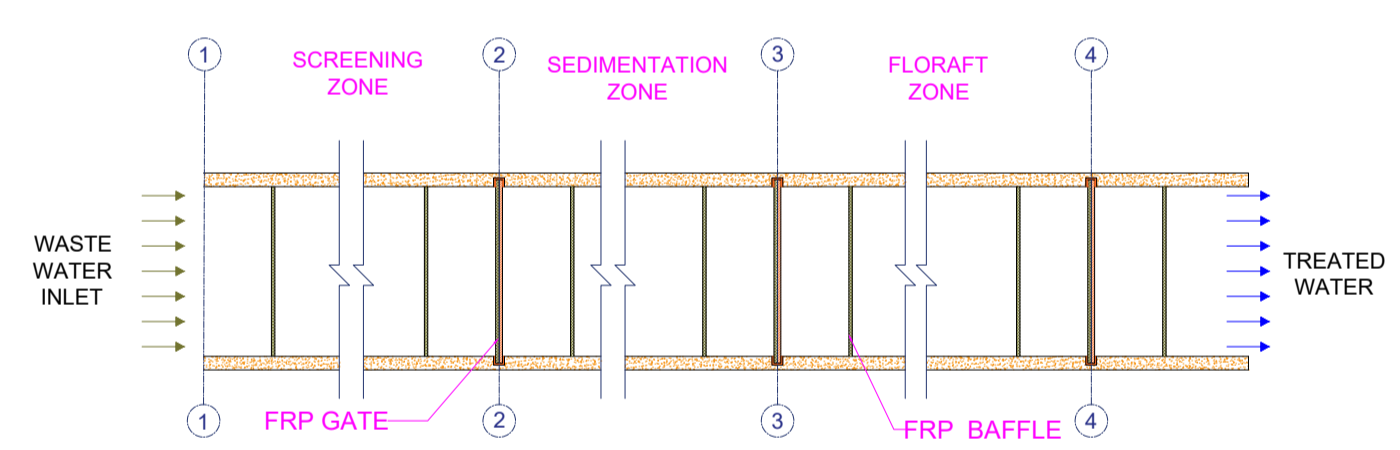
REVISION NO. 0



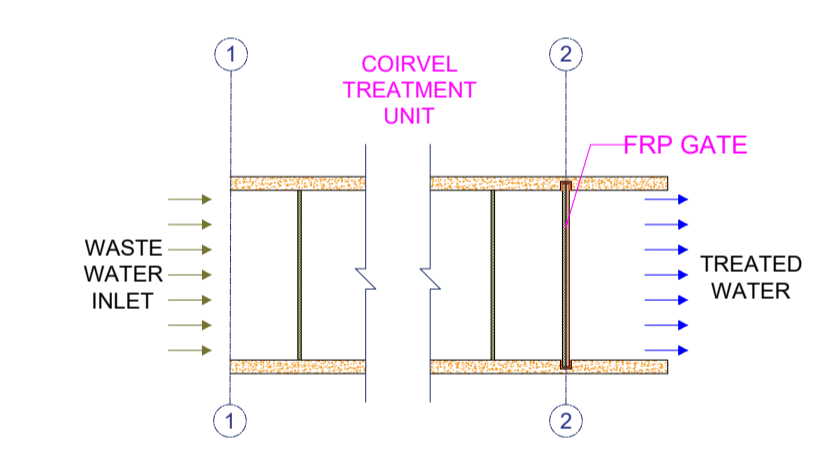
LONGITUDINAL SECTION OF STRETCH - 1 (U/S OF TEMPLE) : 00.00 TO 56.12 M



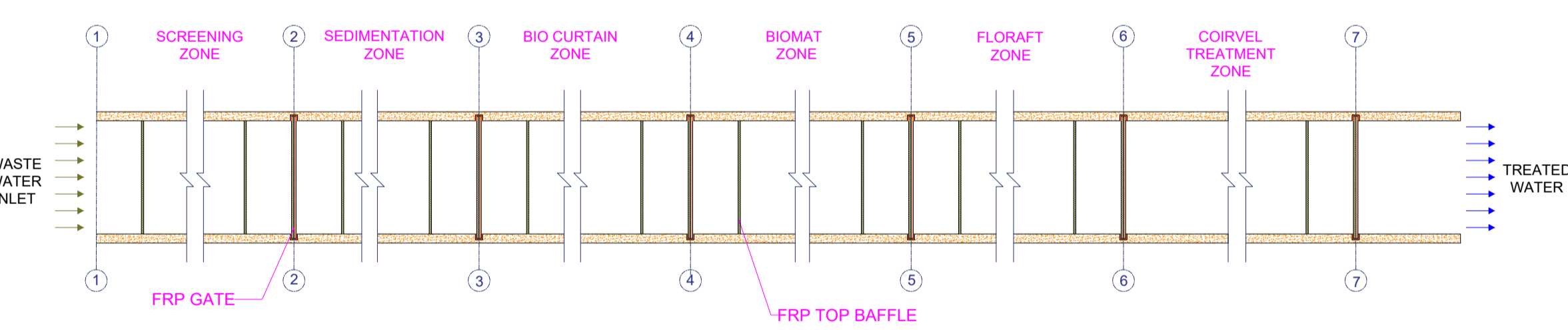
LONGITUDINAL SECTION & PROPOSED TREATMENT DETAILING FOR STRETCH - 1 (U/S OF TEMPLE)



PROPOSE TREATMENT SCHEME FOR STRETCH - 1 : U/S OF TEMPLE

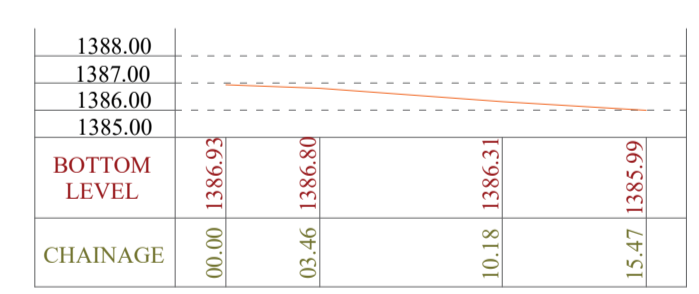


PROPOSE TREATMENT SCHEME FOR STRETCH - 2 : U/S OF LITTLE BLOSSOM SCHOOL

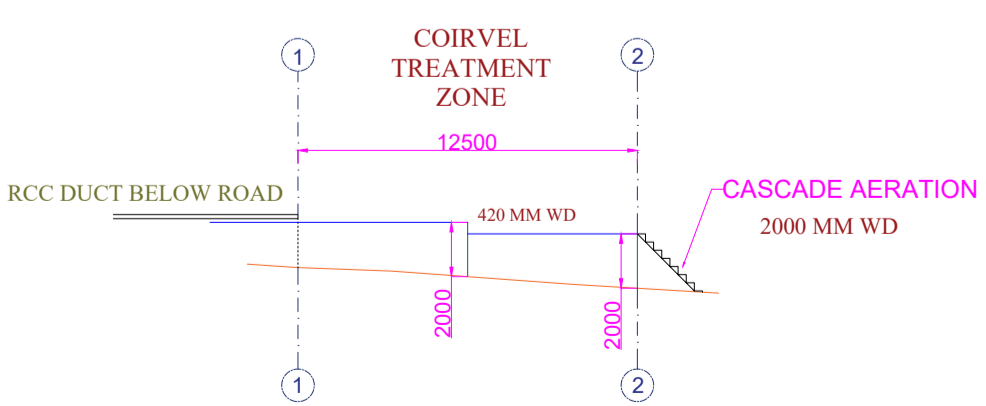


PROPOSE TREATMENT SCHEME FOR STRETCH - 3 : IN FRONT OF HOTEL POLO

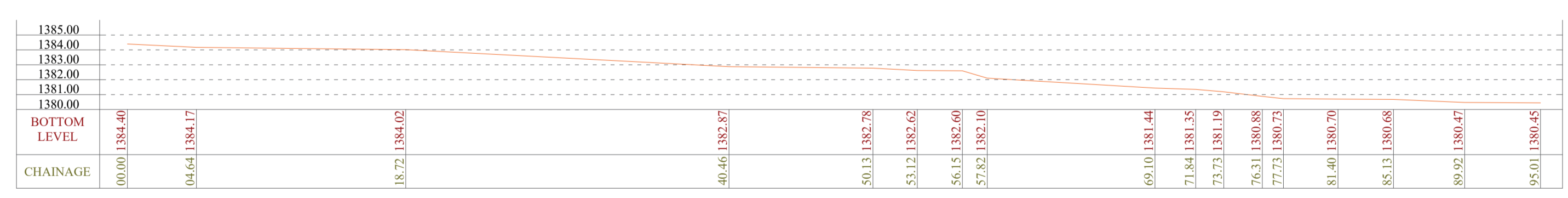
NOT TO SCALE



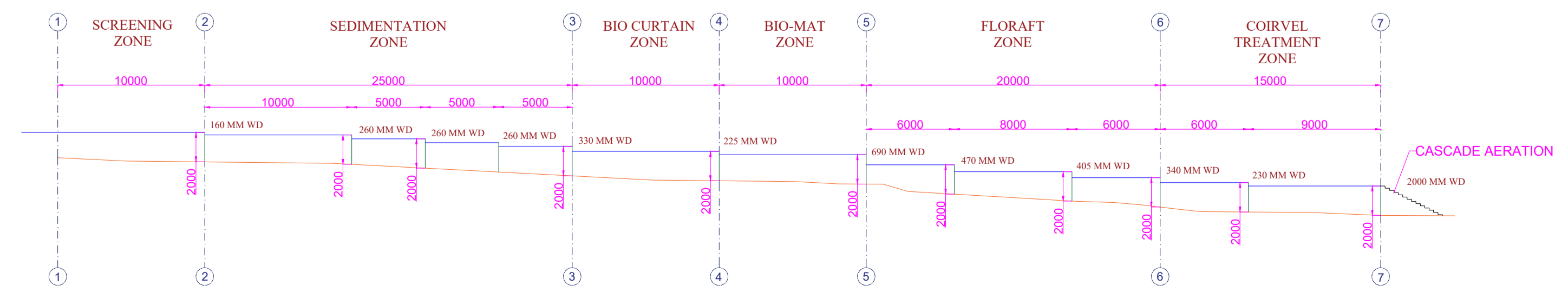
LONGITUDINAL SECTION OF STRETCH - 2 (U/S OF LITTLE BLOSSOM SCHOOL) : 00.00 TO 15.47 M



LONGITUDINAL SECTION & PROPOSED TREATMENT DETAILING FOR STRETCH - 2 (U/S OF LITTLE BLOSSOM SCHOOL)



LONGITUDINAL SECTION OF STRETCH - 3 (IN FRONT OF HOTEL POLO) : 00.00 TO 95.01 M



LONGITUDINAL SECTION & PROPOSED TREATMENT DETAILING FOR STRETCH - 3 (IN FRONT OF HOTEL POLO)

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**LEGEND**

CONCRETE	
FRP SHEET	
MILD STEEL	
WATER LEVEL	
BOTTOM LEVEL OF DRAIN	
NATURAL BOUNDARY OF DRAIN	
LINED BOUNDARY OF DRAIN	
COVERED PORTION OF DRAIN	
PROPOSED RENEU STRETCH	
BRIDGE	

CLIENT / OWNER	<b>SHILLONG SMART CITY LIMITED</b>
SUBMITTED BY/ ARCHITECT ON RECORD	<b>IPE GLOBAL LIMITED</b> B-84, Defence Colony, New Delhi - 110024
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**PROJECT NAME:**  
UMKHRAH RIVER CLEANING

0	07/04/21	LONGITUDINAL SECTION DRAWING	IKJ
REV	DATE	DESCRIPTION	APPROVED

**REVISION INDEX**

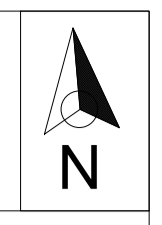
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**DRAWING TITLE**  
LONGITUDINAL SECTION OF RENEU TREATMENT FOR OAKLAND DRAIN

FOR APPROVAL OF COMPETENT AUTHORITY	DATE	10/05/2021	DRAWN MD
	SCALE	NTS	
	SHEET SIZE	A1	APPROVED IKJ

**DRAWING NO.**  
IPE/SSCL/

**REVISION NO.** 0



### POLO DRAIN - 2

STRETCH - 1  
(NEAR BUDDISHT TEMPLE)

BUDDISHT TEMPLE ROAD

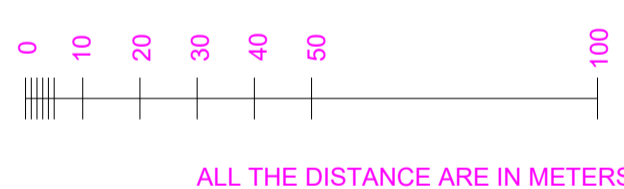
CRPF

FRUIT MARKET

STRETCH - 2  
(D/S OF FRUIT MARKET)

STADIUM

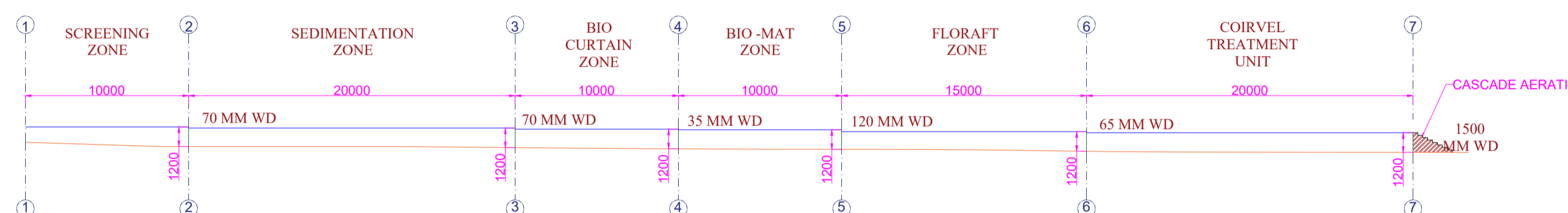
SCALE



ALL THE DISTANCE ARE IN METERS

	1376.00																			
	1375.00																			
	1374.00																			
BOTTOM LEVEL	1375.55	1375.29	1375.25	1375.19	1375.13	1375.12	1375.09	1374.98	1374.95	1374.94	1374.94									
CHAINAGE	00.00	08.56	22.09	33.89	44.56	55.07	58.25	66.88	71.03	79.83	88.40									

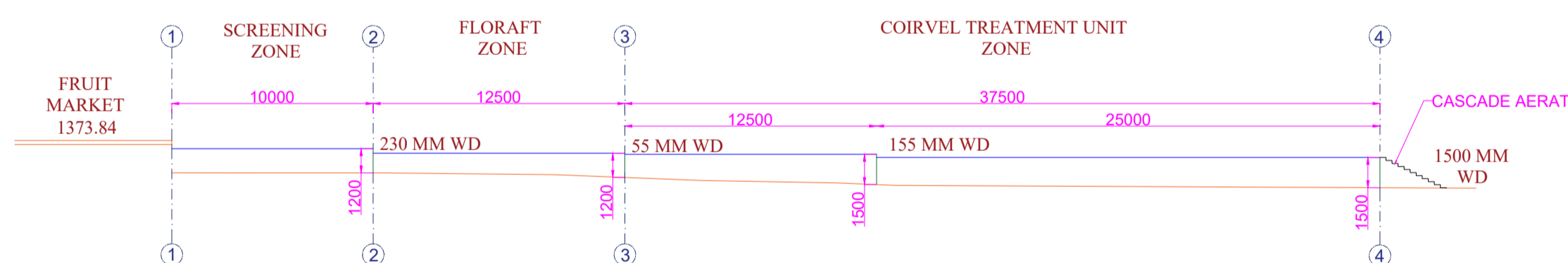
LONGITUDINAL SECTION OF STRETCH -1 (NEAR BUDDISHT TEMPLE) : 0.00 TO 88.40 M



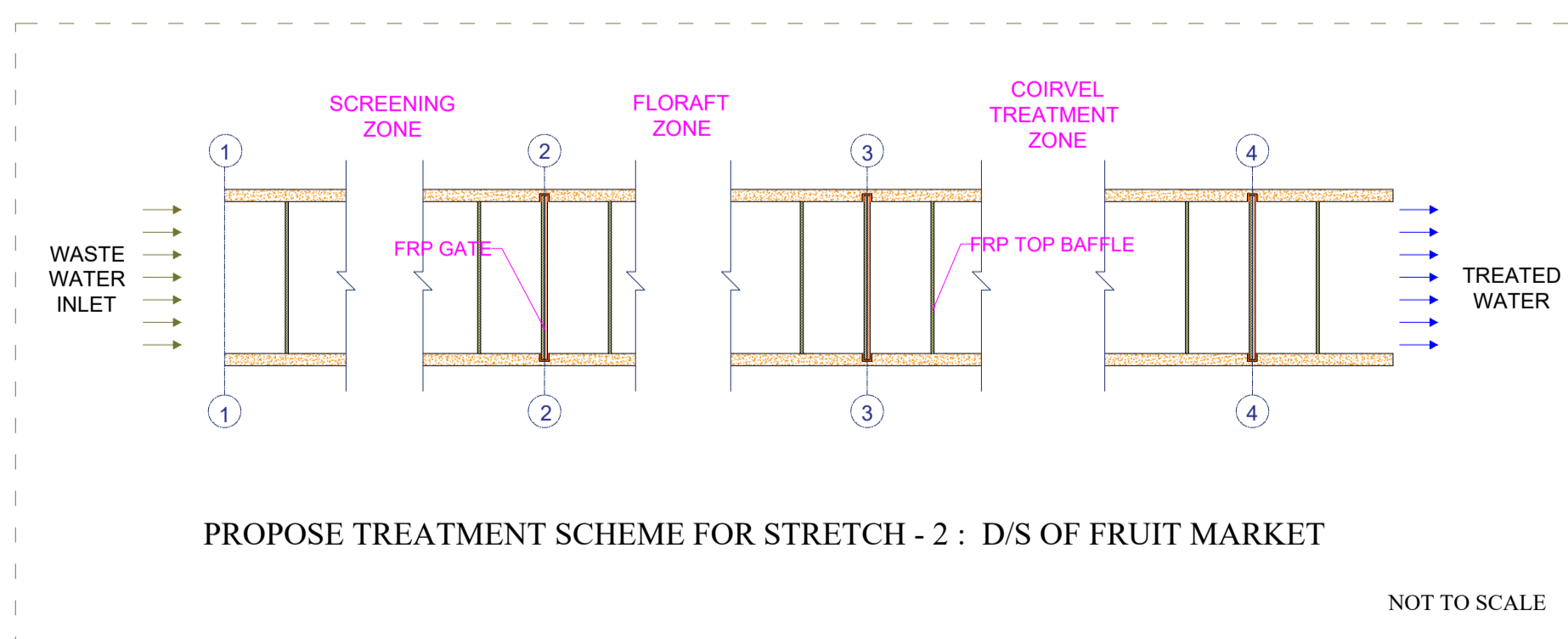
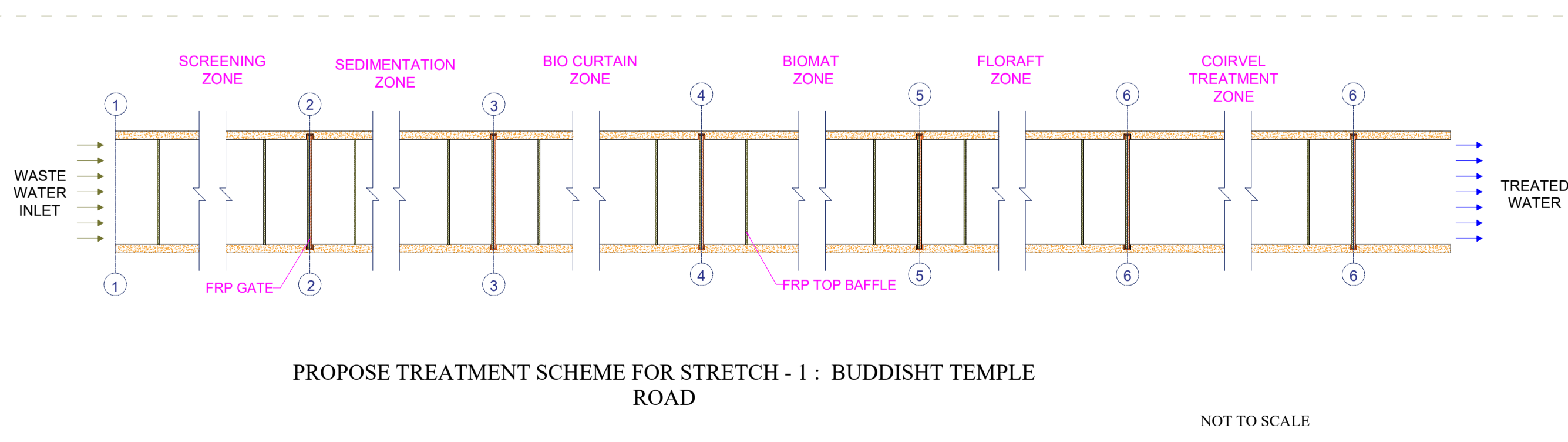
LOGITUDINAL SECTION & PROPOSED TREATMENT DETAILING FOR STRETCH -1 : NEAR BUDDISHT TEMPLE ROAD

	1374.50																			
	1373.50																			
	1372.50																			
BOTTOM LEVEL	1373.84	1373.83	1373.82	1373.74	1373.45	1373.33	1373.21													
CHAINAGE	00.00	04.21	10.32	19.01	26.33	33.04	35.95	64.76												

LONGITUDINAL SECTION OF STRETCH -2 (D/S OF FRUIT MARKET) : 0.00 TO 64.76 M



LOGITUDINAL SECTION & PROPOSED TREATMENT DETAILING FOR STRETCH -2 (D/S OF FRUIT MARKET)



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**LEGEND**

CONCRETE	
FRP SHEET	
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NATURAL BOUNDARY OF DRAIN	
LINED BOUNDARY OF DRAIN	
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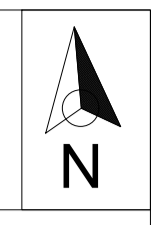
0	07/04/21	LONGITUDINAL SECTION DRAWING	IKJ
REV	DATE	DESCRIPTION	APPROVED

**REVISION INDEX**

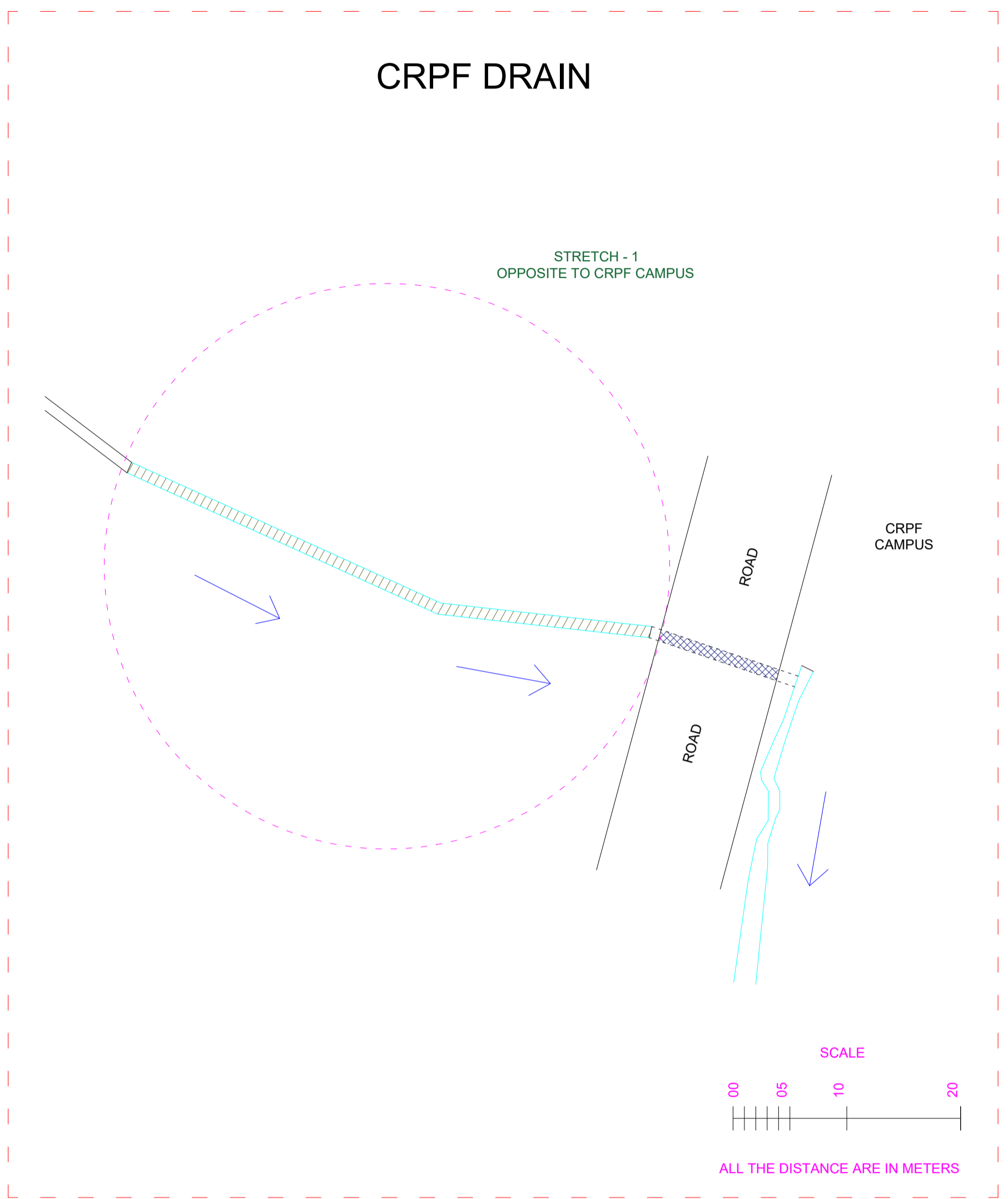
DRAWING TITLE  
**LONGITUDINAL SECTION OF RENEU TREATMENT FOR POLO DRAIN-2**

FOR APPROVAL OF COMPETENT AUTHORITY	DATE	10/05/2021	DRAWN	MD
	SCALE	NTS	SHEET SIZE	A1
			CHECKED	RH
			APPROVED	IKJ

DRAWING NO. **IPE/SSCL/** REVISION NO. **0**

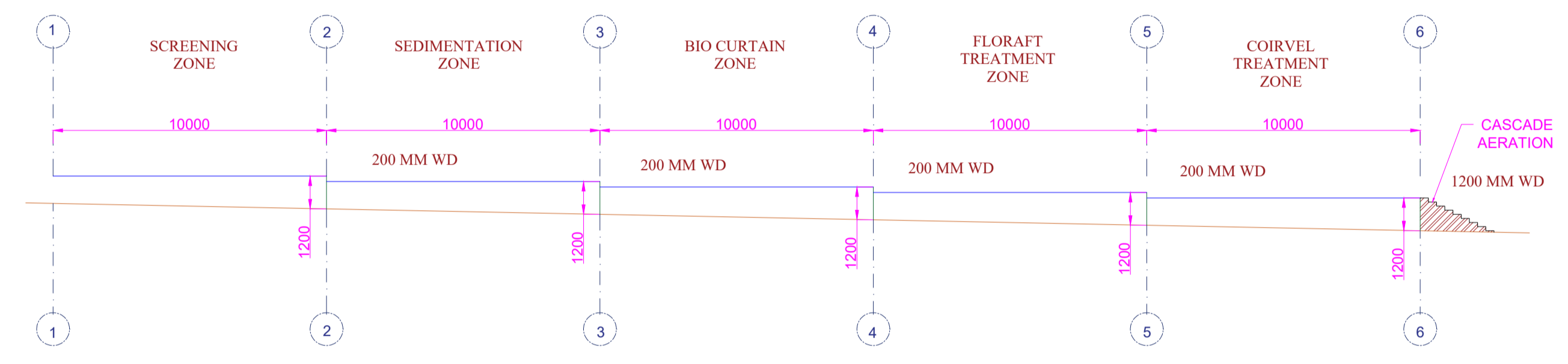


# CRPF DRAIN

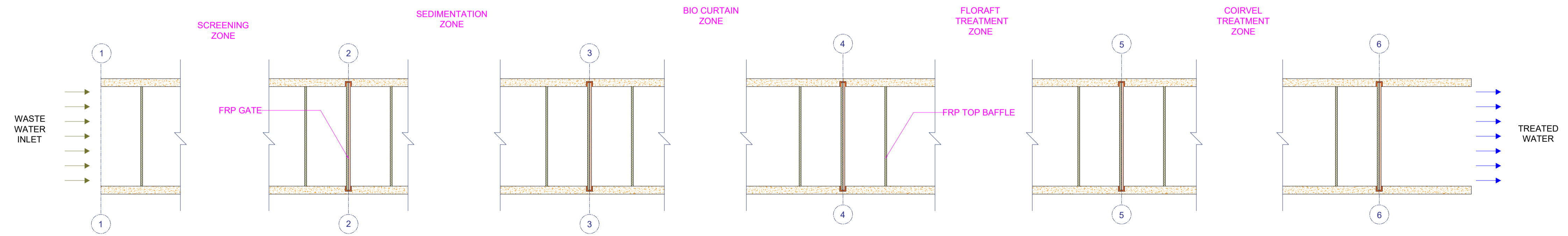


	1376.50		
	1375.50		
	1374.50		
	1373.50		
BOTTOM LEVEL	1375.60	1375.10	1374.60
CHAINAGE	00.00	25.00	50.00

LONGITUDINAL SECTION OF CRPF DRAIN OPPOSITE TO CRPF CAMPUS : 0.00 TO 50.00 M



LOGITUDINAL SECTION & PROPOSED TREATMENT DETAILING FOR STRETCH -1 (OPPOSITE TO CRPF CAMPUS)



PROPOSE TREATMENT SCHEME FOR CRPF DRAIN (OPPOSITE TO CRPF CAMPUS)

NOT TO SCALE

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FRP SHEET	
MILD STEEL	
WATER LEVEL	
BOTTOM LEVEL OF DRAIN	
NATURAL BOUNDARY OF DRAIN	
LINED BOUNDARY OF DRAIN	
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PROPOSED RENEU STRETCH	
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SUBMITTED BY / ARCHITECT ON RECORD **IPE GLOBAL LIMITED**  
B-84, Defence Colony, New Delhi -110024

SUB CONSULTANT  
**ENERGY ENVIRO PRIVATE LIMITED**  
**SINE IIT BOMBAY COMPANY**  
CM02, 3rd Floor, CSRE Building,  
IIT Bombay, Powai, Mumbai - 400076



PROJECT NAME:  
**UMKHAH RIVER CLEANING**

0	07/04/21	LONGITUDINAL SECTION DRAWING	IKJ
REV	DATE	DESCRIPTION	APPROVED

**REVISION INDEX**

**DRAWING TITLE**  
LONGITUDINAL SECTION OF RENEU TREATMENT FOR CRPF DRAIN

FOR APPROVAL OF COMPETENT AUTHORITY	DATE	10/05/2021	DRAWN	MD
	SCALE	NTS	CHECKED	RH
	SHEET SIZE	A1	APPROVED	IKJ

DRAWING NO. IPE/SSCL/ REVISION NO. 0