

Name of Division : Salkhira OEM Division-2, BWDB, Salkhira.

Name of Circle : Khulna OEM Circle, BWDB, Khulna.

Name of Zone : South-Western Zone, BWDB, Khulna.

Design
SE-813.

Construction of 2-Vent (1.50m x 1.80m) Drainage Culm Flushing Regulator (DS-1) On Kultia Khal at Km. 35.00 in Polder 6-8 (Ext) in c/w " Drainage Improvement of Polder No. 1, 2, 6-8 & 6-8 (Ext) in Salkhira District Under Salkhira OEM Division-2, BWDB, Salkhira.(Package No: W-Sat-2/12).

For

Design Data



BANGLADESH WATER DEVELOPMENT BOARD

130

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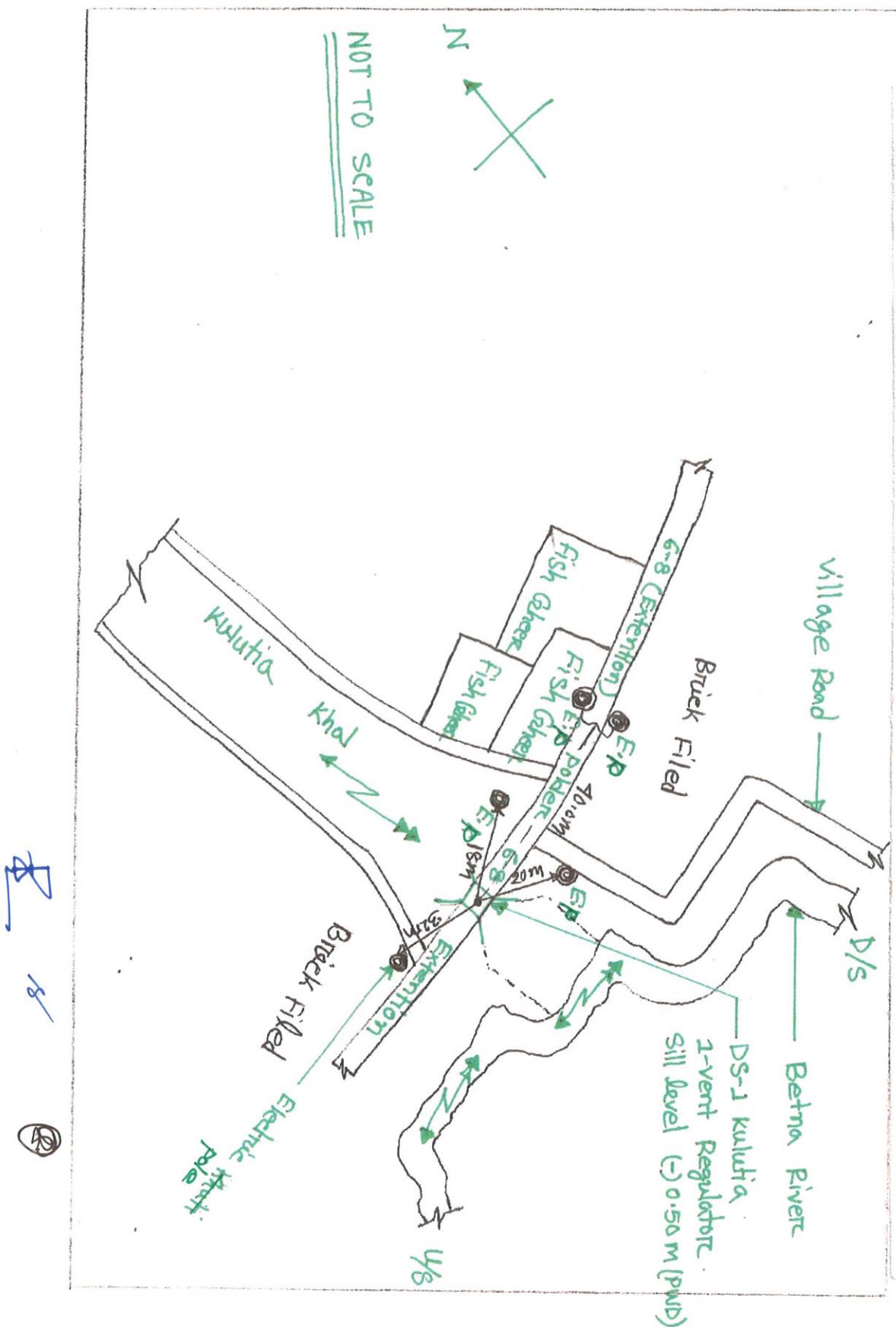
Shambow Hesminin Makhmuud
ID No. 910318002
Executive Engineer
Saddula QSM Division-2
BWDB, Sadrilla.

କାନ୍ତିକାଳେ ପାଦମଣି

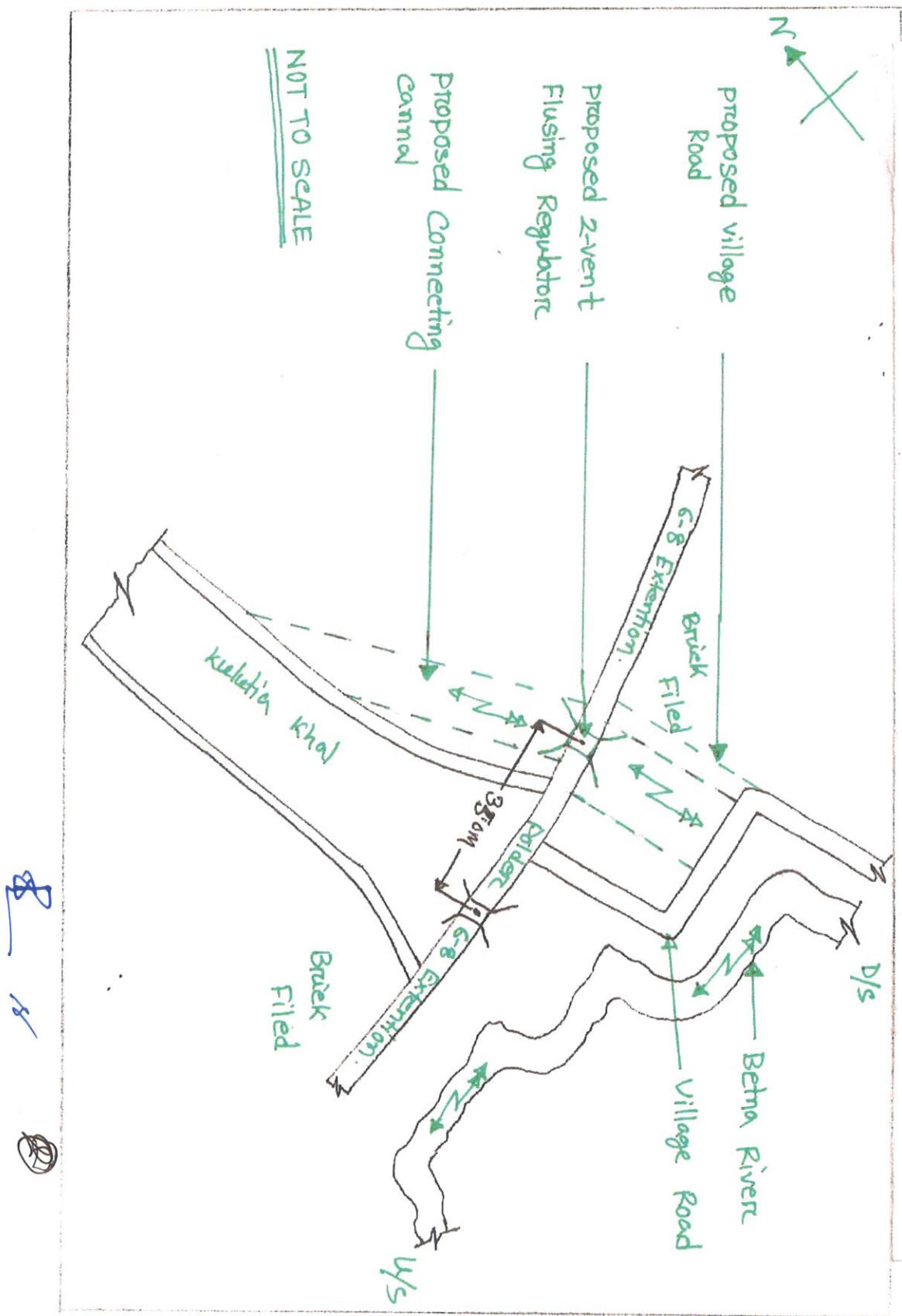
一九四〇年

۱۴۶۸ هجری قمری

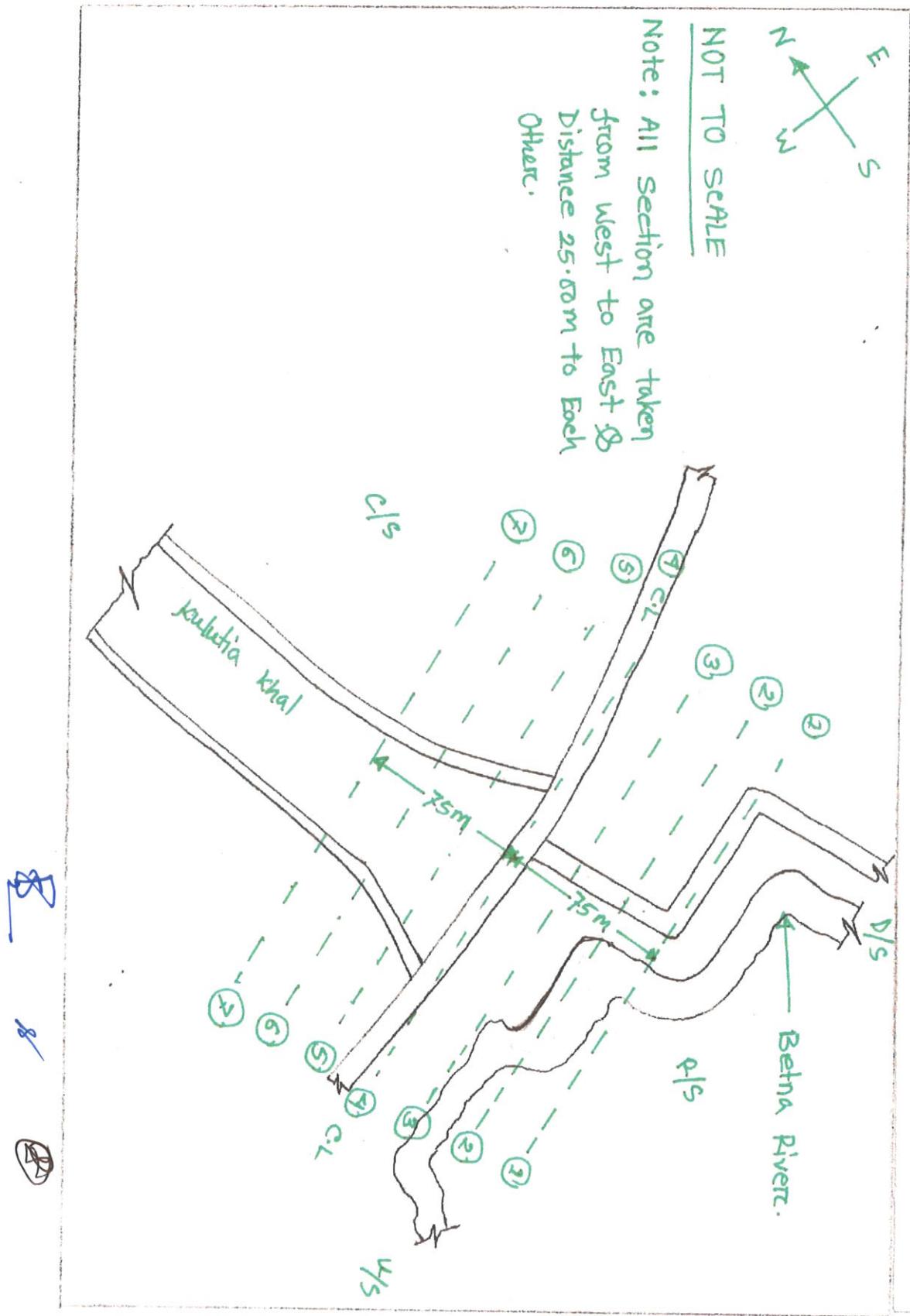
Site Plan For Construction of 2-Vent (1.50m x 1.80m) Drainage Cum Flushing Regulator (DS-1) On Kulutia Khal at Km. 35.00 in Polder 6-8 (Ext) in c/w " Drainage Improvement of Polder No. 1, 2, 6-8 & 6-8 (Ext) in Satkhira District Under Satkhira O&M Division-2, BWDB, Satkhira.(Package No: W-Sat-2/12).



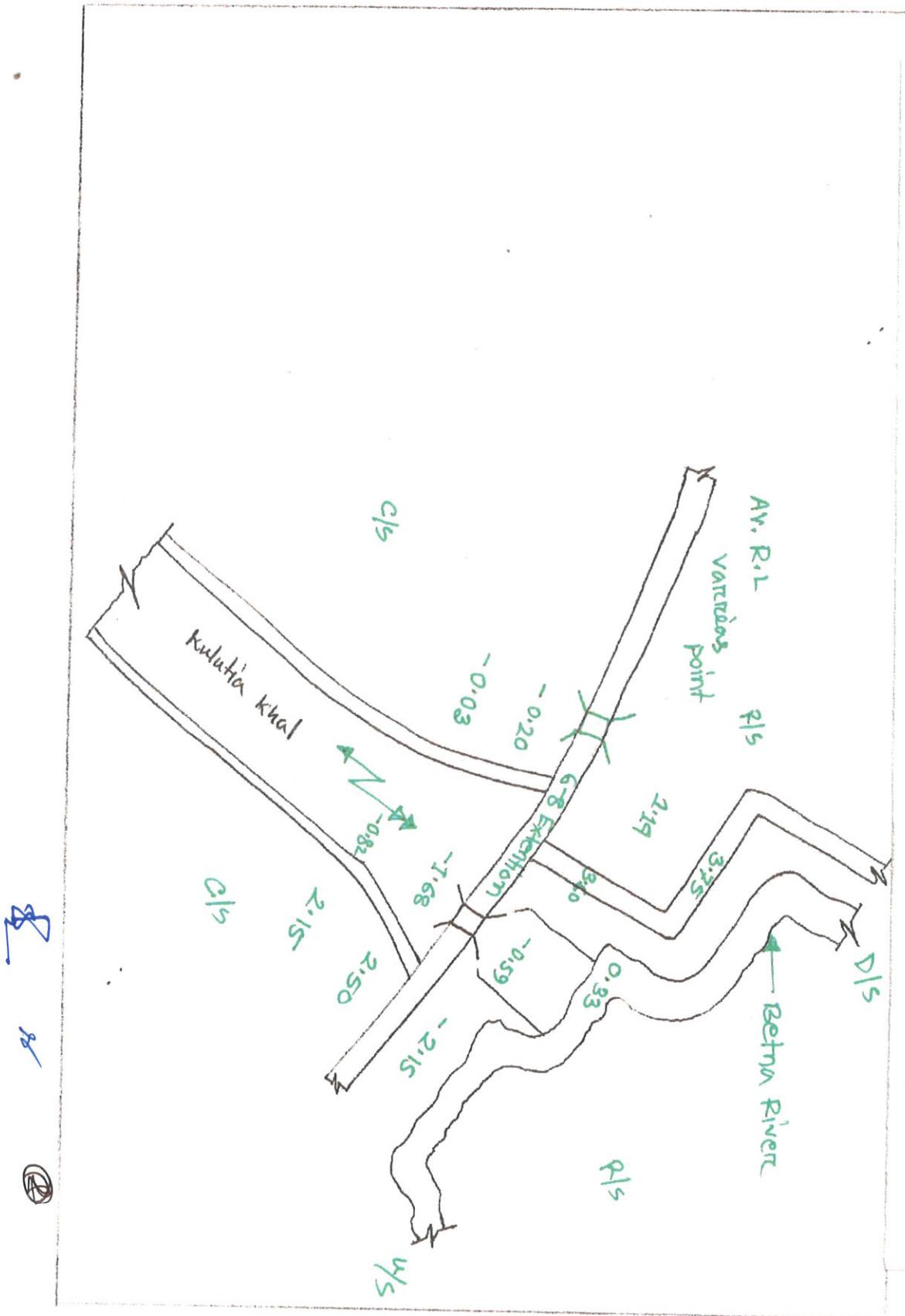
Site Plan For Construction of 2-Vent (1.50m x 1.80m) Drainage Cum Flushing Regulator (DS-1) On Kulutia Khal at Km. 35.00 in Polder 6-8 (Ext) in c/w " Drainage Improvement of Polder No. 1, 2, 6-8 & 6-8 (Ext) in Satkhira District Under Satkhira O&M Division-2, BWDB, Satkhira.(Package No: W-Sat-2/12).



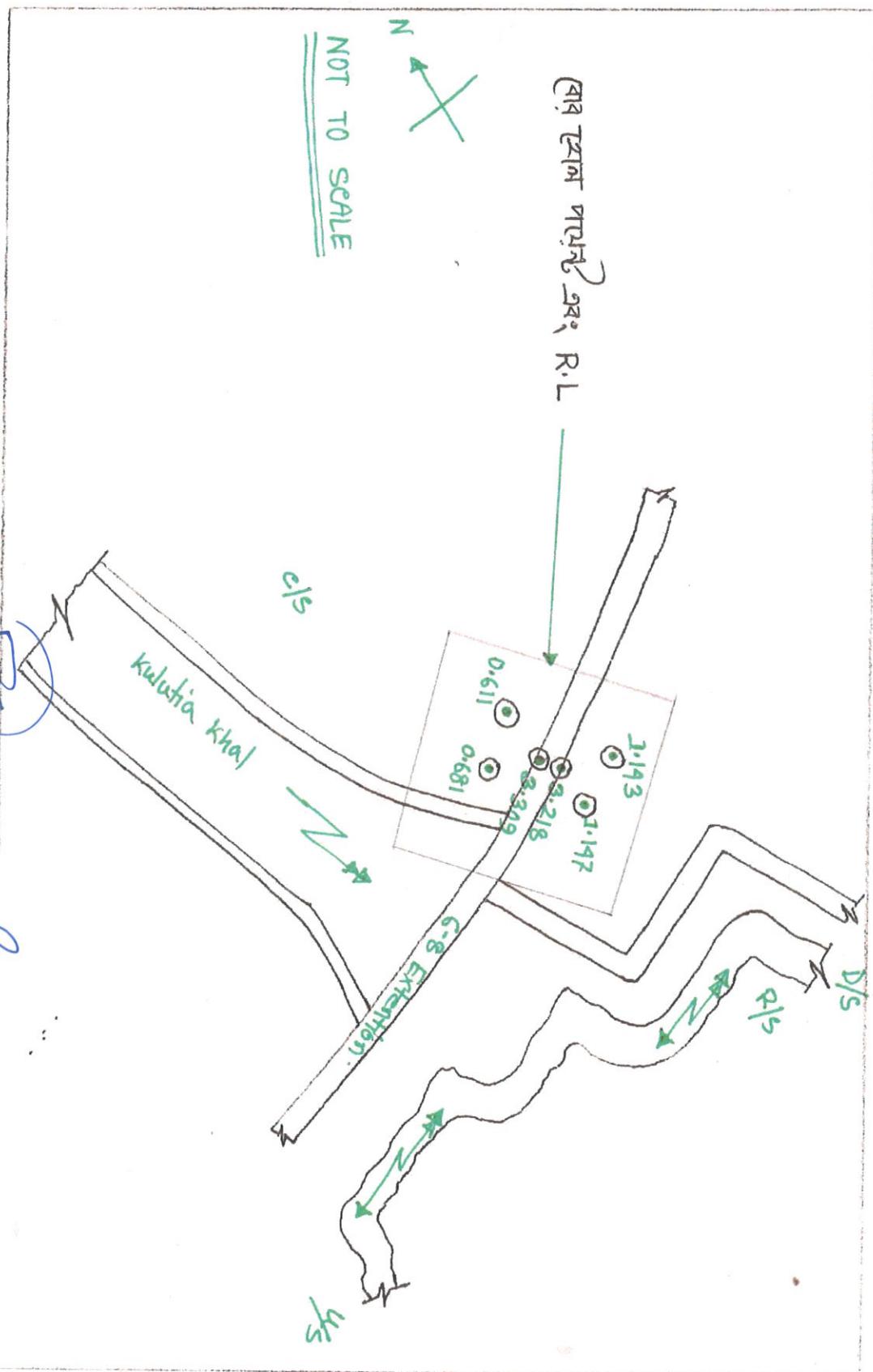
Site Plan For Construction of 2-Vent (1.50m x 1.80m) Drainage Cum Flushing Regulator (DS-1) On Kulutia Khal at Km. 35.00 in Polder 6-8 (Ext) in c/w “ Drainage Improvement of Polder No. 1, 2, 6-8 & 6-8 (Ext) in Satkhira District Under Satkhira O&M Division-2, BWDB, Satkhira.(Package No: W-Sat-2/12).



Site Plan For Construction of 2-Vent (1.50m x 1.80m) Drainage Cum Flushing Regulator (DS-1) On Kulutia Khal at Km. 35.00 in Polder 6-8 (Ex) in c/w " Drainage Improvement of Polder No. 1, 2, 6-8 & 6-8 (Ext) in Satkhira District Under Satkhira O&M Division-2, BWDB, Satkhira.(Package No: W-Sat-2/12).



Site Plan For Construction of 2-Vent (1.50m x 1.80m) Drainage Cum Flushing Regulator (DS-1) On Kulutia Khal at Km. 35.00 in Polder 6-8 (Ext) in c/w " Drainage Improvement of Polder No. 1, 2, 6-8 & 6-8 (Ext) in Satkhira District Under Satkhira O&M Division-2, BWDB, Satkhira.(Package No: W-Sat-2/12).



No

Yes

- 3.2 Is there any rainfall station with in the catchments area?
- 3.1 Rain fall data: Enclosed.
- 3 HYDROLOGICAL DATA:
- 2.4 Site Plan- Enclosed.
- 2.3 Basin Map- Enclosed.
- 2.2 Location Map- Enclosed.
- A project index map showing the project boundary and all project feature such as embankment, improvement of drainage channel, irrigation canal, all drainage and Index Map enclosed.
- 2.1 Project Map:
- 2.MAPS (See instruction in Annexure-A)

No

Yes

Retention of post monsoon water for irrigation.

No

Yes

Flushing of irrigation/Fish Culture water.

No

Yes

Prevention of Flood.

No

Yes

Prevention of early Flood.

No

Yes

Post Monsoon Drainage

No

Yes

Monsoon Drainage.

No

Yes

Drainage, Flood control and Irrigation.

Identify the purpose(s) that has to be saved by the structure and put tick-mark accordingly:

1. PURPOSE OF THE STRUCTURE

D. Catchments Area : 245 Hectar. (Only for this structure)
 C. Project Area : 75790 Hectar.

- B. Name of Structure : Construction of 2 Vent (1.50m x 1.80m) Drainage Cum Flushing Regulator on Kulluta Khal at km.35.00 in Polder No-6-8 (Extension) at Sakkhra Sadar Upazila, Sakkhra District, Under Sakkhra OEM Division-2, BWDB, Sakkhra.
- A. Name of Project/Scheme : Drainage Improvement of Polder 1,2-6-8 and 6-8 (Extension) in Sakkhra District.

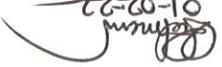
While submitting proposal for the design of the Constucting sluice this data check list shall be filled up and sent to the design office along with other requisites mentioned here in.

SLUICE

DATA CHECK LIST FOR THE DESIGN CONSTRUCTION OF DRAINAGE



3.2 WATER LEVEL DATA	
3.2.1 Is there any water level station on the outfall river at or near the structure site? If so, mention the name of the station (s).	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
3.2.2 Specify the name of at least one station D/S of the structure site with the distance : N/A	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
3.2.3 Is there any water level station on the drainage channel corresponding the proposed structure site? If so, specify the name.	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
3.3 DISCHARGE DATA:	
3.3.1 Is there any record of discharge in the channel? If so, enclosed the data as available site? If so, specify the name.	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
4.1 MORPHOLOGICAL DATA (See Annexures-A)	
4.1.1 (a) Are the bank of out-fall river and drainage channel far the structure site?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
4.2 Cross-section of the drainage channel for the at least 0.075 km U/S of this structure & 0.075 km D/S up to out fall River from this structure.	Enclosed.
4.3 Long-section of the drainage channel for the at least 0.075 km U/S of this structure & 0.075 km D/S up to out fall River from this structure.	Enclosed.
5.1 MISCELLANEOUS DATA:	
5.1.1 Structure related to embankment/Road connection the structure.	Existing or proposed road/embankment profile for at least 150 m on each side of the structure.
5.1.2 Structure proposed structure.	Existing or proposed top elevation, top width and side slope of embankment/road at the structure site.
5.1.3 Type of expected traffic loading on road/embankment.	Track
5.1.4 General classification of road: Usually Track	(i) Highway/Federal road/Local road. (ii) R&H/District council road/Pourashava road/UP Road/village road (iii) BWD Embankment.
5.1.5 Existing or proposed top elevation, top width and side slope of embankment/road at the structure site.	(i) Top Elevation 5.00 m (PWD) (ii) Top width 5.00 m (iii) C/S Slope 1:2 (iv) R/S Slope 1:3
5.1.6 Structure	Proposed structure.
5.1.7 MISCELLANEOUS DATA:	Existing or proposed road/embankment profile for at least 150 m on each side of the structure.
5.1.8 Structure	Existing or proposed top elevation, top width and side slope of embankment/road at the structure site.
5.1.9 Track	Type of expected traffic loading on road/embankment.
5.1.10 General classification of road: Usually Track	(i) Highway/Federal road/Local road. (ii) R&H/District council road/Pourashava road/UP Road/village road (iii) BWD Embankment.

 Md. Ziaur Rahman (MD-ZIAUR-RAHMAN) Gokul Chandra Paul (GOKUL-CHANDRA-PAUL) Shameem Hasnain Mahmud (SHAMEEM-HASNAIN-MAHMUD)

6. FOUNDATION DESIGN DATA: Will be Supplied by Ground Water Hydrology

- 5.2.2 If not, does the scheme include re-excavation of drainage channel? If so, the design cross-section and long-section may be finished as required indicated in Para 4.2 and 4.3.
- 5.2.3 Is the complete drainage of the basin necessary?
- 5.2.4 Drainage highest level requirement SOB. Distance from the structure site ~~soil sample~~ (b) If not mentioned the drainage level require and distance of such level from the proposed structure site.
- 5.2.5 From the field condition existing invert level of the structure which can allow design drainage (-) 0.750m(PWD).
- 5.3.1 Date related to irrigation aspects:
- 5.3.2 Project cultivate area 7590 hectars.
- 5.3.3 Principal crop sown in the basin with present and future cropping past term: Fish Culture For irrigation by flushing water, specify the period of such irrigation: N/A
6. Immediately.

5.2. Data related to drainage aspects.

Are the existing section and bed slope of the drainage channel adequate for complete or desire level of drainage?

Yes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No
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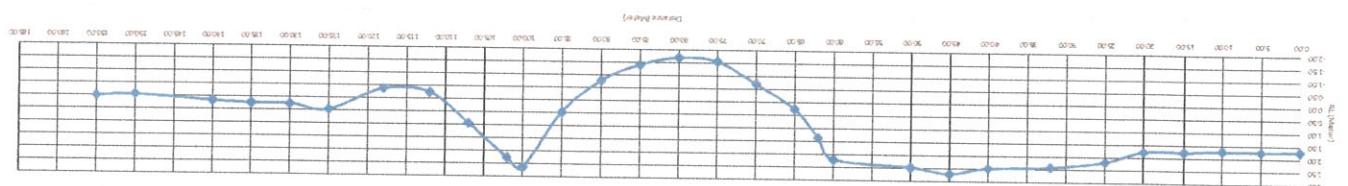
5.2.2 If not, does the scheme include re-excavation of drainage channel? If so, the design cross-section and long-section may be finished as required indicated in Para 4.2 and 4.3.

Yes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No
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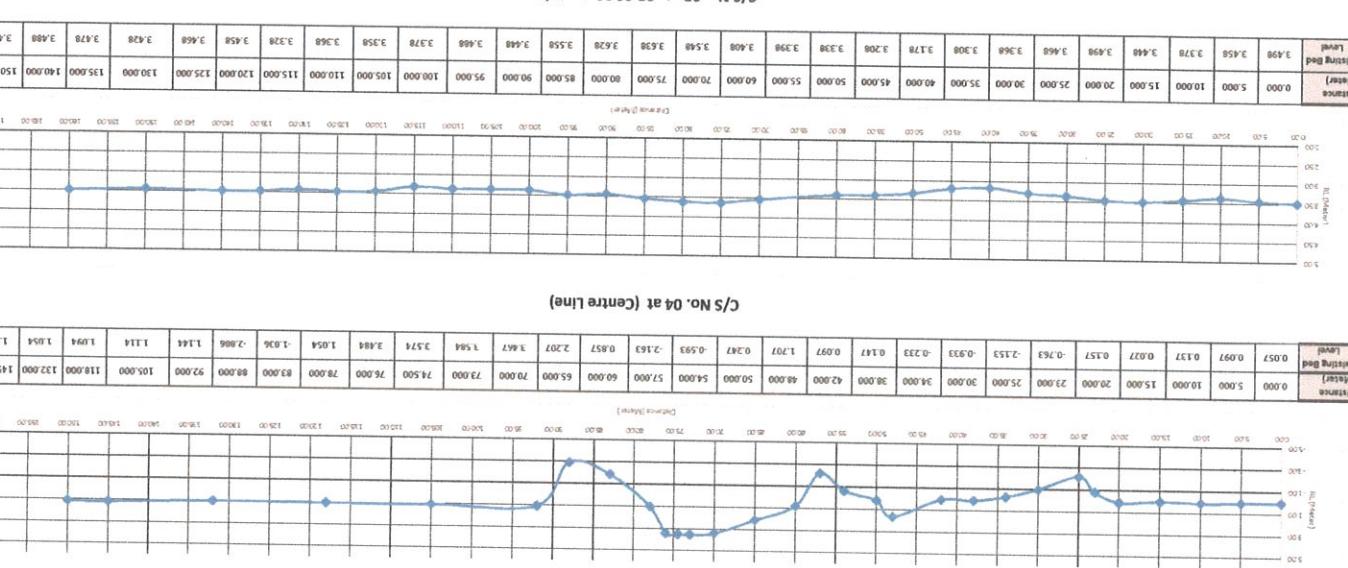
5.2.3 Is the complete drainage of the basin necessary?

Yes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No
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Distance (Metres)	0.00	500	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	6000	6500	7000	7500	8000	8500	9000	9500	10000	10500	11000	11500
Flow (m³/s)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00



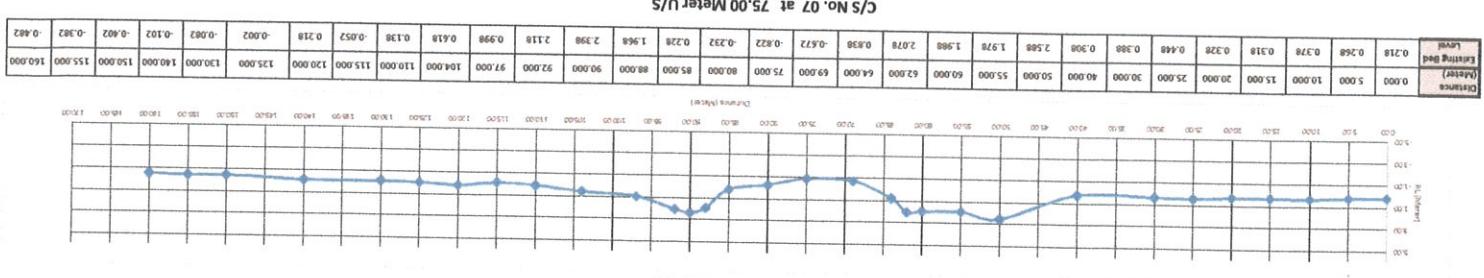
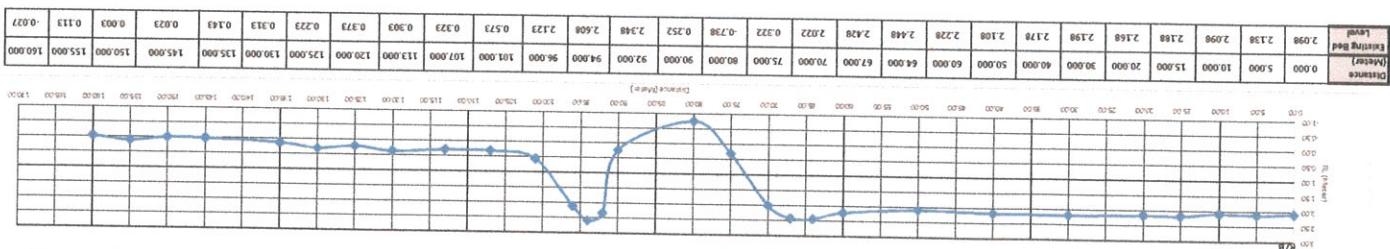
C/S No. 05 at 25.00 Meter/D/s
C/S No. 04 at Centre Line
C/S No. 03 at 25.00 Meter/D/s
C/S No. 02 at 50.00 Meter/D/s
C/S No. 01 at 75.00 Meter/D/s



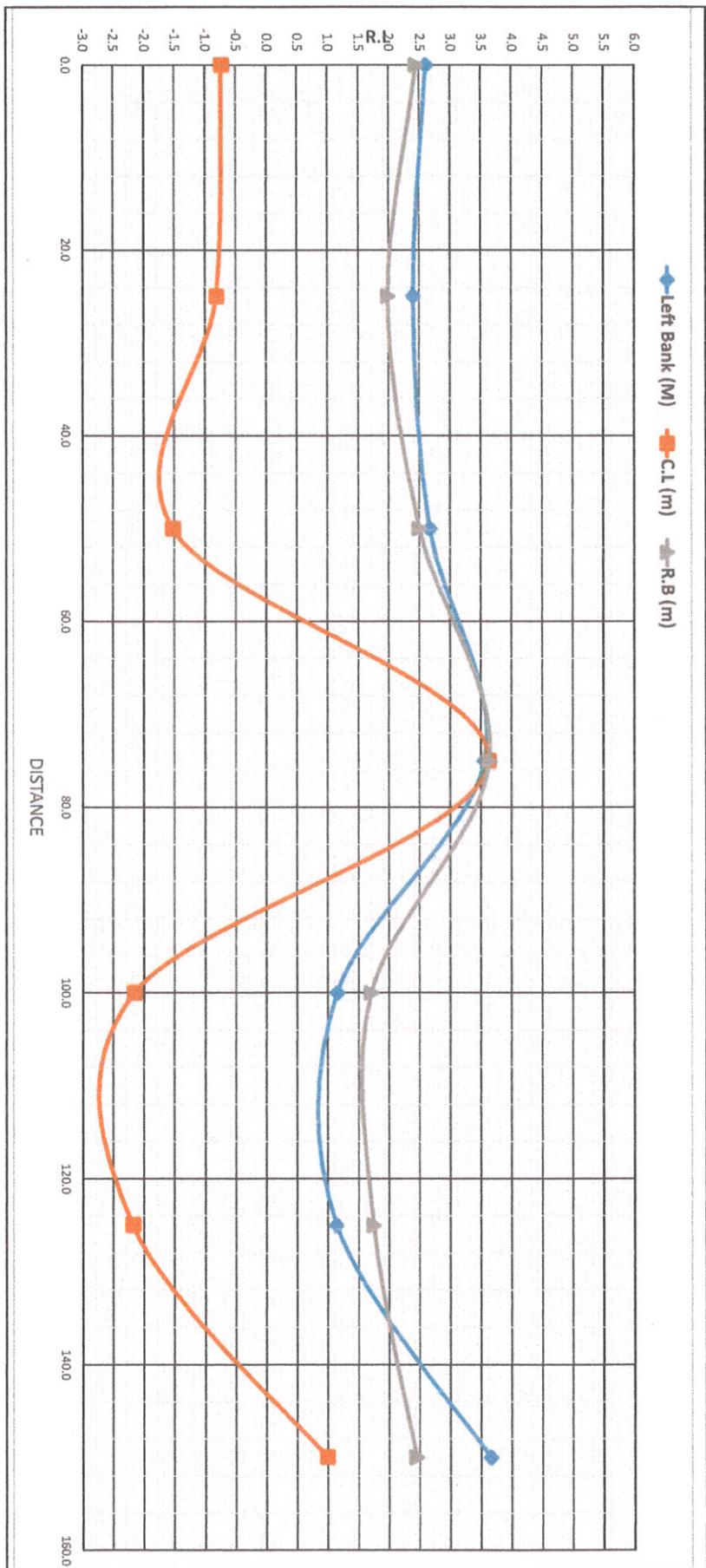
01-02-22
Sharmeen Hashmi

دہلی گاہ، سکھنیوالی
جیلانی مارکیٹ
کالونی ریڈی ایکٹری ۔ ۰۰۰۲۹۸
کالونی ریڈی ایکٹری ۔ ۰۰۰۲۹۸
(کھلی بند پریس ایکٹری)

SWD, سکھنیوالی
جیلانی دیم دیویشن ۲
Executive Engineer
ID No. 910318002
(Sharmeen Hashmi مارکیٹ)
01-02-22



Long Section For 2-Vent (1.50m x 1.80m) Drainage Cum Flushing Regulator (DS-1) On Kulutia Khal at Km. 35.00 in Polder 6-8 (Ext) in c/w " Drainage Improvement of Polder No. 1, 2, 6-8 & 6-8 (Ext) in Satkhira District Under Satkhira O&M Division-2, BWDB, Satkhira.(Package No: W-Sat-2/12).



(Shameem Hossain Mahmud)
ID No. 910314002
Executive Engineer
Satkhira O&M Division-2
BWDB, Satkhira.

01-02-2022

মোঃ জিয়াউর রহিমান
ডেপ-সহকারী অফিসেলী
পার্কিং নং-১২১০৬১১০০
বাপুজঙ্গল, সাতক্ষীরা।

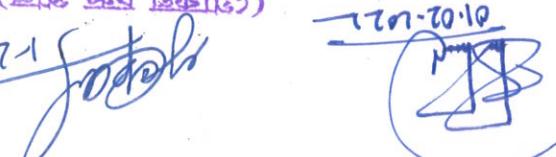
Rainfall Data

District	Station	Station-ID	Month	Rainfall(mm)	Year	Rainfall (mm)
Satkhira	Satkhira	CL518	January,1992	10.00	1992	1558.90
Satkhira	Satkhira	CL518	February,1992	65.50	1992	
Satkhira	Satkhira	CL518	March,1992	0.00	1992	
Satkhira	Satkhira	CL518	April,1992	8.00	1992	
Satkhira	Satkhira	CL518	May,1992	219.10	1992	
Satkhira	Satkhira	CL518	June,1992	208.30	1992	
Satkhira	Satkhira	CL518	July,1992	342.20	1992	
Satkhira	Satkhira	CL518	August,1992	301.50	1992	
Satkhira	Satkhira	CL518	September,1992	336.30	1992	
Satkhira	Satkhira	CL518	October,1992	48.00	1992	
Satkhira	Satkhira	CL518	November,1992	0.00	1992	
Satkhira	Satkhira	CL518	December,1992	0.00	1992	
Satkhira	Satkhira	CL518	January,1993	4.00	1993	1993
Satkhira	Satkhira	CL518	February,1993	17.00	1993	1613.60
Satkhira	Satkhira	CL518	March,1993	59.50	1993	
Satkhira	Satkhira	CL518	April,1993	47.00	1993	
Satkhira	Satkhira	CL518	May,1993	311.00	1993	
Satkhira	Satkhira	CL518	June,1993	272.60	1993	
Satkhira	Satkhira	CL518	July,1993	233.00	1993	
Satkhira	Satkhira	CL518	August,1993	458.30	1993	
Satkhira	Satkhira	CL518	September,1993	349.50	1993	
Satkhira	Satkhira	CL518	October,1993	34.50	1993	
Satkhira	Satkhira	CL518	November,1993	92.00	1993	
Satkhira	Satkhira	CL518	December,1993	336.00	1993	
Satkhira	Satkhira	CL518	January,1994	3.50	1994	1774.43
Satkhira	Satkhira	CL518	February,1994	5.00	1994	
Satkhira	Satkhira	CL518	March,1994	27.00	1994	
Satkhira	Satkhira	CL518	April,1994	7.00	1994	
Satkhira	Satkhira	CL518	May,1994	165.80	1994	
Satkhira	Satkhira	CL518	June,1994	204.80	1994	
Satkhira	Satkhira	CL518	July,1994	384.20	1994	
Satkhira	Satkhira	CL518	August,1994	389.80	1994	
Satkhira	Satkhira	CL518	September,1994	92.00	1994	
Satkhira	Satkhira	CL518	October,1994	336.00	1994	
Satkhira	Satkhira	CL518	November,1994	3.50	1995	1995
Satkhira	Satkhira	CL518	December,1994	0.00	1995	
Satkhira	Satkhira	CL518	January,1995	361.93	1995	
Satkhira	Satkhira	CL518	February,1995	387.00	1995	
Satkhira	Satkhira	CL518	March,1995	100.30	1995	
Satkhira	Satkhira	CL518	April,1995	33.30	1995	
Satkhira	Satkhira	CL518	May,1995	60.50	1995	
Satkhira	Satkhira	CL518	June,1995	8.50	1995	
Satkhira	Satkhira	CL518	July,1995	1995	1995	1995
Satkhira	Satkhira	CL518	August,1995	361.93	1995	
Satkhira	Satkhira	CL518	September,1995	387.00	1995	
Satkhira	Satkhira	CL518	October,1995	100.30	1995	
Satkhira	Satkhira	CL518	November,1995	33.30	1995	
Satkhira	Satkhira	CL518	December,1995	60.50	1995	
Satkhira	Satkhira	CL518	January,1996	8.50	1996	1996
Satkhira	Satkhira	CL518	February,1996	1996	1996	1996
Satkhira	Satkhira	CL518	March,1996	33.30	1996	
Satkhira	Satkhira	CL518	April,1996	92.00	1996	
Satkhira	Satkhira	CL518	May,1996	1996	1996	1996
Satkhira	Satkhira	CL518	June,1996	102.20	1996	
Satkhira	Satkhira	CL518	July,1996	127.70	1996	
Satkhira	Satkhira	CL518	August,1996	177.70	1996	
Satkhira	Satkhira	CL518	September,1996	24.60	1996	
Satkhira	Satkhira	CL518	October,1996	24.60	1996	
Satkhira	Satkhira	CL518	November,1996	7.20	1996	
Satkhira	Satkhira	CL518	December,1996	189.00	1996	
Satkhira	Satkhira	CL518	January,1997	30.00	1997	1997
Satkhira	Satkhira	CL518	February,1997	49.90	1997	
Satkhira	Satkhira	CL518	March,1997	100.50	1997	
Satkhira	Satkhira	CL518	April,1997	128.80	1997	
Satkhira	Satkhira	CL518	May,1997	109.10	1997	
Satkhira	Satkhira	CL518	June,1997	48.96	1997	
Satkhira	Satkhira	CL518	July,1997	313.40	1997	
Satkhira	Satkhira	CL518	August,1997	57.80	1997	
Satkhira	Satkhira	CL518	September,1997	134.60	1997	
Satkhira	Satkhira	CL518	October,1997	490.30	1997	
Satkhira	Satkhira	CL518	November,1997	57.80	1997	
Satkhira	Satkhira	CL518	December,1997	20.60	1997	
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Satkhira	Satkhira	CL518	March,1998	0.00	1998	
Satkhira	Satkhira	CL518	April,1998	0.00	1998	
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Satkhira	Satkhira	CL518	September,2000	0.00	2000	
Satkhira	Satkhira	CL518	October,2000	0.00	2000	
Satkhira	Satkhira	CL518	November,2000	0.00	2000	
Satkhira	Satkhira	CL518	December,2000	0.00	2000	
Satkhira	Satkhira	CL518	January,2001	0.00	2001	1997
Satkhira	Satkhira	CL518	February,2001	0.00	2001	
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Satkhira	Satkhira	CL518	July,2001	0.00	2001	
Satkhira	Satkhira	CL518	August,2001	0.00	2001	
Satkhira	Satkhira	CL518	September,2001	0.00	2001	
Satkhira	Satkhira	CL518	October,2001	0.00	2001	
Satkhira	Satkhira	CL518	November,2001	0.00	2001	
Satkhira	Satkhira	CL518	December,2001	0.00	2001	
Satkhira	Satkhira	CL518	January,2002	0.00	2002	1997
Satkhira	Satkhira	CL518	February,2002	0.00	2002	
Satkhira	Satkhira	CL518	March,2002	0.00	2002	
Satkhira	Satkhira	CL518	April,2002	0.00	2002	
Satkhira	Satkhira	CL518	May,2002	0.00	2002	
Satkhira	Satkhira	CL518	June,2002	0.00	2002	
Satkhira	Satkhira	CL518	July,2002	0.00	2002	
Satkhira	Satkhira	CL518	August,2002	0.00	2002	
Satkhira	Satkhira	CL518	September,2002	0.00	2002	
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Satkhira	Satkhira	CL518	December,2002	0.00	2002	
Satkhira	Satkhira	CL518	January,2003	0.00	2003	1997
Satkhira	Satkhira	CL518	February,2003	0.00	2003	
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Satkhira	Satkhira	CL518	December,2004	0.00	2004	
Satkhira	Satkhira	CL518	January,2005	0.00	2005	1997
Satkhira	Satkhira	CL518	February,2005	0.00	2005	
Satkhira	Satkhira	CL518	March,2005	0.00	2005	
Satkhira	Satkhira	CL518	April,2005	0.00	2005	
Satkhira	Satkhira	CL518	May,2005	0.00	2005	
Satkhira	Satkhira	CL518	June,2005	0.00	2005	
Satkhira	Satkhira	CL518	July,2005	0.00	2005	
Satkhira	Satkhira	CL518	August,2005	0.00	2005	
Satkhira	Satkhira	CL518	September,2005	0.00	2005	
Satkhira	Satkhira	CL518	October,2005	0.00	2005	
Satkhira	Satkhira	CL518	November,2005	0.00	2005	
Satkhira	Satkhira	CL518	December,2005	0.00	2005	
Satkhira	Satkhira	CL518	January,2006	0.00	2006	1997
Satkhira	Satkhira	CL518	February,2006	0.00	2006	
Satkhira	Satkhira	CL518	March,2006	0.00	2006	
Satkhira	Satkhira					

District	Station	Station_ID	Month	Rainfall(mm)	Year	Rainfall (mm)
Satkhira	Satkhira	CL518	January,1998	49.10	1998	1888.90
Satkhira	Satkhira	CL518	February,1998	72.00	1998	
Satkhira	Satkhira	CL518	March,1998	217.60	1998	
Satkhira	Satkhira	CL518	April,1998	155.00	1998	
Satkhira	Satkhira	CL518	May,1998	99.60	1998	
Satkhira	Satkhira	CL518	June,1998	128.60	1998	
Satkhira	Satkhira	CL518	July,1998	377.70	1998	
Satkhira	Satkhira	CL518	August,1998	174.40	1998	
Satkhira	Satkhira	CL518	September,1998	262.20	1998	
Satkhira	Satkhira	CL518	October,1998	182.10	1998	
Satkhira	Satkhira	CL518	November,1998	170.60	1998	
Satkhira	Satkhira	CL518	December,1998	0.00	1998	
Satkhira	Satkhira	CL518	January,1999	135.30	1999	1527.50
Satkhira	Satkhira	CL518	February,1999	239.50	1999	
Satkhira	Satkhira	CL518	March,1999	320.50	1999	
Satkhira	Satkhira	CL518	April,1999	223.20	1999	
Satkhira	Satkhira	CL518	May,1999	365.90	1999	
Satkhira	Satkhira	CL518	June,1999	40.00	1999	
Satkhira	Satkhira	CL518	July,1999	189.90	1999	1565.50
Satkhira	Satkhira	CL518	August,1999	202.70	1999	
Satkhira	Satkhira	CL518	September,1999	204.90	1999	
Satkhira	Satkhira	CL518	October,1999	204.90	1999	
Satkhira	Satkhira	CL518	November,1999	204.90	1999	
Satkhira	Satkhira	CL518	December,1999	0.00	1999	
Satkhira	Satkhira	CL518	January,2000	44.20	2000	1880.40
Satkhira	Satkhira	CL518	February,2000	15.70	2000	
Satkhira	Satkhira	CL518	March,2000	164.10	2000	
Satkhira	Satkhira	CL518	April,2000	164.10	2000	
Satkhira	Satkhira	CL518	May,2000	205.50	2000	
Satkhira	Satkhira	CL518	June,2000	223.20	2000	
Satkhira	Satkhira	CL518	July,2000	365.90	2000	
Satkhira	Satkhira	CL518	August,2000	241.60	2000	
Satkhira	Satkhira	CL518	September,2000	44.20	2000	
Satkhira	Satkhira	CL518	October,2000	44.20	2000	
Satkhira	Satkhira	CL518	November,2000	44.20	2000	
Satkhira	Satkhira	CL518	December,2000	0.00	2001	1565.50
Satkhira	Satkhira	CL518	January,2001	48.70	2001	
Satkhira	Satkhira	CL518	February,2001	20.30	2001	
Satkhira	Satkhira	CL518	March,2001	40.00	2001	
Satkhira	Satkhira	CL518	April,2001	40.00	2001	
Satkhira	Satkhira	CL518	May,2001	263.90	2001	
Satkhira	Satkhira	CL518	June,2001	391.60	2001	
Satkhira	Satkhira	CL518	July,2001	247.60	2001	
Satkhira	Satkhira	CL518	August,2001	40.00	2001	
Satkhira	Satkhira	CL518	September,2001	189.90	2001	
Satkhira	Satkhira	CL518	October,2001	104.90	2001	
Satkhira	Satkhira	CL518	November,2001	202.70	2001	
Satkhira	Satkhira	CL518	December,2001	55.90	2001	
Satkhira	Satkhira	CL518	January,2002	0.00	2002	1162.50
Satkhira	Satkhira	CL518	February,2002	13.00	2002	
Satkhira	Satkhira	CL518	March,2002	0.00	2002	
Satkhira	Satkhira	CL518	April,2002	13.00	2002	
Satkhira	Satkhira	CL518	May,2002	382.90	2002	
Satkhira	Satkhira	CL518	June,2002	185.80	2002	
Satkhira	Satkhira	CL518	July,2002	120.00	2002	
Satkhira	Satkhira	CL518	August,2002	371.00	2002	
Satkhira	Satkhira	CL518	September,2002	271.00	2002	
Satkhira	Satkhira	CL518	October,2002	82.90	2002	
Satkhira	Satkhira	CL518	November,2002	0.00	2002	
Satkhira	Satkhira	CL518	December,2002	0.00	2002	
Satkhira	Satkhira	CL518	January,2003	13.00	2003	1506.60
Satkhira	Satkhira	CL518	February,2003	0.00	2003	
Satkhira	Satkhira	CL518	March,2003	16.80	2003	
Satkhira	Satkhira	CL518	April,2003	89.50	2003	
Satkhira	Satkhira	CL518	May,2003	200.10	2003	
Satkhira	Satkhira	CL518	June,2003	0.00	2003	
Satkhira	Satkhira	CL518	July,2003	199.30	2003	
Satkhira	Satkhira	CL518	August,2003	274.40	2003	
Satkhira	Satkhira	CL518	September,2003	465.90	2003	
Satkhira	Satkhira	CL518	October,2003	0.00	2003	
Satkhira	Satkhira	CL518	November,2003	0.00	2003	
Satkhira	Satkhira	CL518	December,2003	15.50	2003	

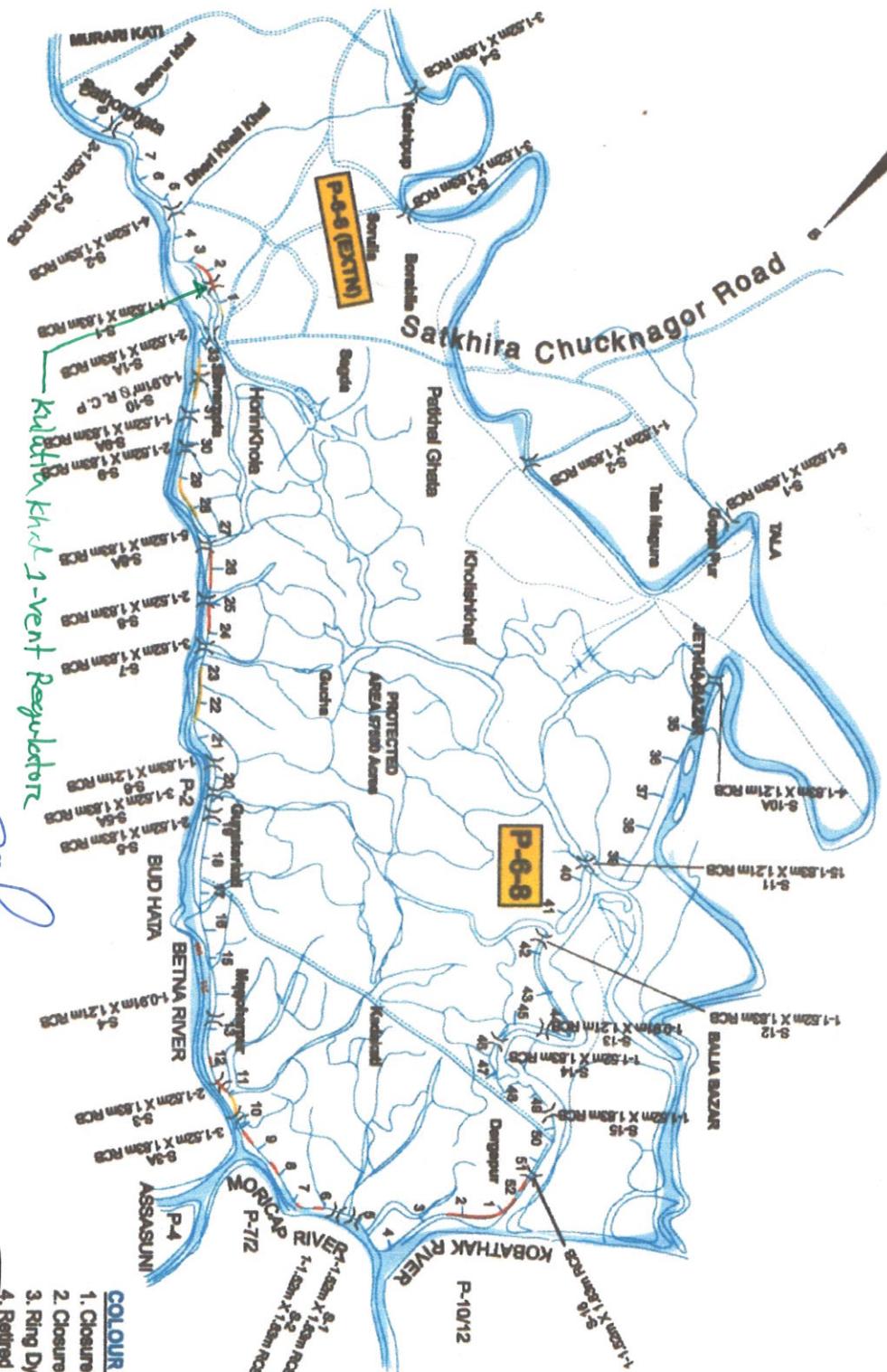
District	Station	Station ID	Month	Rainfall(mm)	Year	Rainfall (mm)
Satkhira	Satkhira	C1518	January,2004	0.00	2004	1455.50
Satkhira	Satkhira	C1518	February, 2004	0.00	2004	1455.50
Satkhira	Satkhira	C1518	March,2004	0.00	2004	1455.50
Satkhira	Satkhira	C1518	April,2004	134.00	2004	1455.50
Satkhira	Satkhira	C1518	May,2004	96.50	2004	1455.50
Satkhira	Satkhira	C1518	June,2004	356.60	2004	1455.50
Satkhira	Satkhira	C1518	July,2004	260.00	2004	1455.50
Satkhira	Satkhira	C1518	August,2004	134.20	2004	1455.50
Satkhira	Satkhira	C1518	September,2004	224.00	2004	1455.50
Satkhira	Satkhira	C1518	October,2004	250.20	2004	1455.50
Satkhira	Satkhira	C1518	November,2004	0.00	2004	1455.50
Satkhira	Satkhira	C1518	December,2004	0.00	2004	1455.50
Satkhira	Satkhira	C1518	January,2005	5.50	2005	984.30
Satkhira	Satkhira	C1518	February, 2005	0.00	2005	984.30
Satkhira	Satkhira	C1518	March,2005	0.00	2005	984.30
Satkhira	Satkhira	C1518	April,2005	4.00	2005	984.30
Satkhira	Satkhira	C1518	May,2005	95.50	2005	984.30
Satkhira	Satkhira	C1518	June,2005	244.50	2005	984.30
Satkhira	Satkhira	C1518	July,2005	504.50	2005	984.30
Satkhira	Satkhira	C1518	August,2005	0.00	2005	984.30
Satkhira	Satkhira	C1518	September,2005	0.00	2005	984.30
Satkhira	Satkhira	C1518	October,2005	0.00	2005	984.30
Satkhira	Satkhira	C1518	November,2005	0.00	2005	984.30
Satkhira	Satkhira	C1518	December,2005	0.00	2005	984.30
Satkhira	Satkhira	C1518	January,2006	0.00	2006	1621.50
Satkhira	Satkhira	C1518	February, 2006	0.00	2006	1621.50
Satkhira	Satkhira	C1518	March,2006	14.50	2006	1621.50
Satkhira	Satkhira	C1518	April,2006	45.50	2006	1621.50
Satkhira	Satkhira	C1518	May,2006	0.00	2006	1621.50
Satkhira	Satkhira	C1518	June,2006	0.00	2006	1621.50
Satkhira	Satkhira	C1518	July,2006	611.80	2006	1621.50
Satkhira	Satkhira	C1518	August,2006	389.60	2006	1621.50
Satkhira	Satkhira	C1518	September,2006	442.40	2006	1621.50
Satkhira	Satkhira	C1518	October,2006	117.70	2006	1621.50
Satkhira	Satkhira	C1518	November,2006	250.20	2006	1621.50
Satkhira	Satkhira	C1518	December,2006	0.00	2006	1621.50
Satkhira	Satkhira	C1518	January,2007	0.00	2007	1912.90
Satkhira	Satkhira	C1518	February, 2007	0.00	2007	1912.90
Satkhira	Satkhira	C1518	March,2007	436.30	2007	1912.90
Satkhira	Satkhira	C1518	April,2007	80.30	2007	1912.90
Satkhira	Satkhira	C1518	May,2007	44.70	2007	1912.90
Satkhira	Satkhira	C1518	June,2007	250.20	2007	1912.90
Satkhira	Satkhira	C1518	July,2007	189.30	2007	1912.90
Satkhira	Satkhira	C1518	August,2007	92.40	2007	1912.90
Satkhira	Satkhira	C1518	September,2007	161.00	2007	1912.90
Satkhira	Satkhira	C1518	October,2007	289.40	2007	1912.90
Satkhira	Satkhira	C1518	November,2007	258.00	2007	1912.90
Satkhira	Satkhira	C1518	December,2007	0.00	2007	1912.90
Satkhira	Satkhira	C1518	January,2008	138.40	2008	1585.40
Satkhira	Satkhira	C1518	February, 2008	34.40	2008	1585.40
Satkhira	Satkhira	C1518	March,2008	16.30	2008	1585.40
Satkhira	Satkhira	C1518	April,2008	89.00	2008	1585.40
Satkhira	Satkhira	C1518	May,2008	89.00	2008	1585.40
Satkhira	Satkhira	C1518	June,2008	16.30	2008	1585.40
Satkhira	Satkhira	C1518	July,2008	213.00	2008	1585.40
Satkhira	Satkhira	C1518	August,2008	312.00	2008	1585.40
Satkhira	Satkhira	C1518	September,2008	213.00	2008	1585.40
Satkhira	Satkhira	C1518	October,2008	125.00	2008	1585.40
Satkhira	Satkhira	C1518	November,2008	125.00	2008	1585.40
Satkhira	Satkhira	C1518	December,2008	0.00	2008	1585.40
Satkhira	Satkhira	C1518	January,2009	1312.00	2009	1473.80
Satkhira	Satkhira	C1518	February, 2009	306.10	2009	1473.80
Satkhira	Satkhira	C1518	March,2009	200.30	2009	1473.80
Satkhira	Satkhira	C1518	April,2009	0.00	2009	1473.80
Satkhira	Satkhira	C1518	May,2009	0.00	2009	1473.80
Satkhira	Satkhira	C1518	June,2009	55.70	2009	1473.80
Satkhira	Satkhira	C1518	July,2009	306.50	2009	1473.80
Satkhira	Satkhira	C1518	August,2009	428.50	2009	1473.80
Satkhira	Satkhira	C1518	September,2009	306.50	2009	1473.80
Satkhira	Satkhira	C1518	October,2009	114.90	2009	1473.80
Satkhira	Satkhira	C1518	November,2009	23.30	2009	1473.80
Satkhira	Satkhira	C1518	December,2009	0.00	2009	1473.80

BWB, Saddhra
Executive Engineer
Saddhra O&M Division-2
ID No. 910318002
(Shameem Hossain Mahmud)

01.02.2022


District	Station	Station ID	Month	Rainfall (mm)	Year	Rainfall (mm)
Saddha	Saddha	G518	Jun_10	311.70	2010	955.80
Saddha	Saddha	G518	Jul_10	255.10	190.70	
Saddha	Saddha	G518	Aug_10	190.70		
Saddha	Saddha	G518	Sep_10	198.30		
Saddha	Saddha	G518	Oct_10	217.90		
Saddha	Saddha	G518	Nov_10	479.90		
Saddha	Saddha	G518	Dec_10	824.20		
Saddha	Saddha	G518	Jan_11	824.20		
Saddha	Saddha	G518	Feb_11	249.90		
Saddha	Saddha	G518	Mar_11	249.90		
Saddha	Saddha	G518	Apr_11	276.50		
Saddha	Saddha	G518	May_11	315.00		
Saddha	Saddha	G518	Jun_11	315.00		
Saddha	Saddha	G518	Jul_11	253.80		
Saddha	Saddha	G518	Aug_11	330.20		
Saddha	Saddha	G518	Sep_11	276.50		
Saddha	Saddha	G518	Oct_11	274.80		
Saddha	Saddha	G518	Nov_11	1395.40		
Saddha	Saddha	G518	Dec_11	1297.10		
Saddha	Saddha	G518	Jan_12	857.60		
Saddha	Saddha	G518	Feb_12	1306.80		
Saddha	Saddha	G518	Mar_12	254.70		
Saddha	Saddha	G518	Apr_12	254.70		
Saddha	Saddha	G518	May_12	177.40		
Saddha	Saddha	G518	Jun_12	176.20		
Saddha	Saddha	G518	Jul_12	176.20		
Saddha	Saddha	G518	Aug_12	415.80		
Saddha	Saddha	G518	Sep_12	415.80		
Saddha	Saddha	G518	Oct_12	123.80		
Saddha	Saddha	G518	Nov_12	123.80		
Saddha	Saddha	G518	Dec_12	1612.70		
Saddha	Saddha	G518	Jan_13	39783.03		
Saddha	Saddha	G518	Feb_13	285.00		
Saddha	Saddha	G518	Mar_13	207.90		
Saddha	Saddha	G518	Apr_13	193.20		
Saddha	Saddha	G518	May_13	572.60		
Saddha	Saddha	G518	Jun_13	572.60		
Saddha	Saddha	G518	Jul_13	572.60		
Saddha	Saddha	G518	Aug_13	572.60		
Saddha	Saddha	G518	Sep_13	572.60		
Saddha	Saddha	G518	Oct_13	572.60		
Saddha	Saddha	G518	Nov_13	572.60		
Saddha	Saddha	G518	Dec_13	572.60		
Saddha	Saddha	G518	Jan_14	572.60		
Saddha	Saddha	G518	Feb_14	572.60		
Saddha	Saddha	G518	Mar_14	572.60		
Saddha	Saddha	G518	Apr_14	572.60		
Saddha	Saddha	G518	May_14	572.60		
Saddha	Saddha	G518	Jun_14	360.10		
Saddha	Saddha	G518	Jul_14	254.40		
Saddha	Saddha	G518	Aug_14	254.40		
Saddha	Saddha	G518	Sep_14	254.40		
Saddha	Saddha	G518	Oct_14	218.70		
Saddha	Saddha	G518	Nov_14	218.70		
Saddha	Saddha	G518	Dec_14	218.70		
Saddha	Saddha	G518	Jan_15	183.10		
Saddha	Saddha	G518	Feb_15	183.10		
Saddha	Saddha	G518	Mar_15	183.10		
Saddha	Saddha	G518	Apr_15	183.10		
Saddha	Saddha	G518	May_15	183.10		
Saddha	Saddha	G518	Jun_15	236.50		
Saddha	Saddha	G518	Jul_15	236.50		
Saddha	Saddha	G518	Aug_15	236.50		
Saddha	Saddha	G518	Sep_15	236.50		
Saddha	Saddha	G518	Oct_15	236.50		
Saddha	Saddha	G518	Nov_15	236.50		
Saddha	Saddha	G518	Dec_15	236.50		
Saddha	Saddha	G518	Jan_16	254.70		
Saddha	Saddha	G518	Feb_16	254.70		
Saddha	Saddha	G518	Mar_16	254.70		
Saddha	Saddha	G518	Apr_16	254.70		
Saddha	Saddha	G518	May_16	254.70		
Saddha	Saddha	G518	Jun_16	254.70		
Saddha	Saddha	G518	Jul_16	254.70		
Saddha	Saddha	G518	Aug_16	254.70		
Saddha	Saddha	G518	Sep_16	254.70		
Saddha	Saddha	G518	Oct_16	254.70		
Saddha	Saddha	G518	Nov_16	254.70		
Saddha	Saddha	G518	Dec_16	254.70		
Saddha	Saddha	G518	Jan_17	1306.80		
Saddha	Saddha	G518	Feb_17	1306.80		
Saddha	Saddha	G518	Mar_17	1306.80		
Saddha	Saddha	G518	Apr_17	1306.80		
Saddha	Saddha	G518	May_17	1306.80		
Saddha	Saddha	G518	Jun_17	1306.80		
Saddha	Saddha	G518	Jul_17	1306.80		
Saddha	Saddha	G518	Aug_17	1306.80		
Saddha	Saddha	G518	Sep_17	1306.80		
Saddha	Saddha	G518	Oct_17	1306.80		
Saddha	Saddha	G518	Nov_17	1306.80		
Saddha	Saddha	G518	Dec_17	1306.80		
Saddha	Saddha	G518	Jan_18	1612.70		
Saddha	Saddha	G518	Feb_18	1612.70		
Saddha	Saddha	G518	Mar_18	1612.70		
Saddha	Saddha	G518	Apr_18	1612.70		
Saddha	Saddha	G518	May_18	1612.70		
Saddha	Saddha	G518	Jun_18	1612.70		
Saddha	Saddha	G518	Jul_18	1612.70		
Saddha	Saddha	G518	Aug_18	1612.70		
Saddha	Saddha	G518	Sep_18	1612.70		
Saddha	Saddha	G518	Oct_18	1612.70		
Saddha	Saddha	G518	Nov_18	1612.70		
Saddha	Saddha	G518	Dec_18	1612.70		
Saddha	Saddha	G518	Jan_19	1771.90		
Saddha	Saddha	G518	Feb_19	1771.90		
Saddha	Saddha	G518	Mar_19	1771.90		
Saddha	Saddha	G518	Apr_19	1771.90		
Saddha	Saddha	G518	May_19	1771.90		
Saddha	Saddha	G518	Jun_19	1771.90		
Saddha	Saddha	G518	Jul_19	1771.90		
Saddha	Saddha	G518	Aug_19	1771.90		
Saddha	Saddha	G518	Sep_19	1771.90		
Saddha	Saddha	G518	Oct_19	1771.90		
Saddha	Saddha	G518	Nov_19	1771.90		
Saddha	Saddha	G518	Dec_19	1771.90		
Saddha	Saddha	G518	Jan_20	1771.90		
Saddha	Saddha	G518	Feb_20	1771.90		
Saddha	Saddha	G518	Mar_20	1771.90		
Saddha	Saddha	G518	Apr_20	1771.90		
Saddha	Saddha	G518	May_20	1771.90		
Saddha	Saddha	G518	Jun_20	1771.90		
Saddha	Saddha	G518	Jul_20	1771.90		
Saddha	Saddha	G518	Aug_20	1771.90		
Saddha	Saddha	G518	Sep_20	1771.90		
Saddha	Saddha	G518	Oct_20	1771.90		
Saddha	Saddha	G518	Nov_20	1771.90		
Saddha	Saddha	G518	Dec_20	1771.90		
Saddha	Saddha	G518	Jan_21	1771.90		
Saddha	Saddha	G518	Feb_21	1771.90		
Saddha	Saddha	G518	Mar_21	1771.90		
Saddha	Saddha	G518	Apr_21	1771.90		
Saddha	Saddha	G518	May_21	1771.90		
Saddha	Saddha	G518	Jun_21	1771.90		
Saddha	Saddha	G518	Jul_21	1771.90		
Saddha	Saddha	G518	Aug_21	1771.90		
Saddha	Saddha	G518	Sep_21	1771.90		
Saddha	Saddha	G518	Oct_21	1771.90		
Saddha	Saddha	G518	Nov_21	1771.90		
Saddha	Saddha	G518	Dec_21	1771.90		
Saddha	Saddha	G518	Jan_22	1771.90		
Saddha	Saddha	G518	Feb_22	1771.90		
Saddha	Saddha	G518	Mar_22	1771.90		
Saddha	Saddha	G518	Apr_22	1771.90		
Saddha	Saddha	G518	May_22	1771.90		
Saddha	Saddha	G518	Jun_22	1771.90		
Saddha	Saddha	G518	Jul_22	1771.90		
Saddha	Saddha	G518	Aug_22	1771.90		
Saddha	Saddha	G518	Sep_22	1771.90		
Saddha	Saddha	G518	Oct_22	1771.90		
Saddha	Saddha	G518	Nov_22	1771.90		
Saddha	Saddha	G518	Dec_22	1771.90		
Saddha	Saddha	G518	Jan_23	1771.90		
Saddha	Saddha	G518	Feb_23	1771.90		
Saddha	Saddha	G518	Mar_23	1771.90		
Saddha	Saddha	G518	Apr_23	1771.90		
Saddha	Saddha	G518	May_23	1771.90		
Saddha	Saddha	G518	Jun_23	1771.90		
Saddha	Saddha	G518	Jul_23	1771.90		
Saddha	Saddha	G518	Aug_23	1771.90		
Saddha	Saddha	G518	Sep_23	1771.90		
Saddha	Saddha	G518	Oct_23	1771.90		
Saddha	Saddha	G518	Nov_23	1771.90		
Saddha	Saddha	G518	Dec_23	1771.90		
Saddha	Saddha	G518	Jan_24	1771.90		
Saddha	Saddha	G518	Feb_24	1771.90		
Saddha	Saddha	G518	Mar_24	1771.90		
Saddha	Saddha	G518	Apr_24	1771.90		
Saddha	Saddha	G518	May_24	1771.90		
Saddha	Saddha	G518	Jun_24	1771.90		
Saddha	Saddha	G518	Jul_24	1771.90		
Saddha	Saddha	G518	Aug_24	1771.90		
Saddha	Saddha	G518	Sep_24	1771.90		
Saddha	Saddha	G518	Oct_24	1771.90		
Saddha	Saddha	G518	Nov_24	1771.90		
Saddha	Saddha	G518	Dec_24	1771.90		
Saddha	Saddha	G518	Jan_25	1771.90		
Saddha	Saddha	G518	Feb_25	1771.90		
Saddha	Saddha	G518	Mar_25	1771.90		
Saddha	Saddha	G518	Apr_25	1771.90		
Saddha	Saddha	G518	May_25	1771.90		
Saddha	Saddha	G518	Jun_25	1771.90		
Saddha	Saddha	G518	Jul_25	1771.90		
Saddha	Saddha	G518	Aug_25	1771.90		
Saddha	Saddha	G518	Sep_25	1771.90		
Saddha	Saddha	G518	Oct_25	1771.90		
Saddha	Saddha	G518	Nov_25	1771.90		
Saddha	Saddha	G518	Dec_25	1771.90		
Saddha	Saddha	G518	Jan_26	1771.90		
Saddha	Saddha	G518	Feb_26	1771.90		
Saddha	Saddha	G518	Mar_26	1771.90		
Saddha	Saddha	G518	Apr_26	1771.90		
Saddha	Saddha	G518	May_26	1771.90		
Saddha	Saddha	G518	Jun_26	1771.90		
Saddha	Saddha	G518	Jul_26	1771.90		
Saddha	Saddha	G518	Aug_26	1771.90		
Saddha	Saddha	G5				

INDEX MAP OF POLDER NO:- 6-8 & 6-8 (Extn)
BANGLADESH WATER DEVELOPMENT BOARD,
SATKHIRA O & M DIVISION - 2



COLOUR LEGEND:

1. Closure (Complete)
2. Closure (In-Complete)
3. Ring Dyke Construction
4. Retired Embankment
5. Re-Sectioning of Embkt./Floodgated
6. Proposed Re-Sectioning of Embkt./W.M.W.
7. Regulator/Sluice Gate
8. Protective Work
9. Repear Sluice

(গোকুলা চন্দ্র
পাল)
উপ-বিজ্ঞানী
সাতকীরা প্রতিশেষী
(অংশ দায়িত্ব
প্রতিষ্ঠানের
চৰকাৰ উপ-বিভাগ-
বাস্পান্তৰ প্রতিশেষী)

০১-০২-৭২
বোং জিয়াতের
রাস্তামান
কুমিল্লা প্রদেশী
প্রতিষ্ঠান
ঘোষণা পত্ৰ
০১-০২-২০০৩

বাস্পান্তৰ প্রতিশেষী।

Untitled Map

Write a description for your map.

Legend

?????????

Google Earth

Image ©2021 Maxar Technologies

1-2-2
Rohman
01-02-22
(গেজুল চন্দ্র পাল)
জিয়াউর রহমান
জি.বিজুয়া প্রকৌশলী (ডঃ দান)
সাতকীরা পাঞ্জে উপ-বিভাগ-২
বাপাড়বো, সাতকীরা।

বি.বিজুয়াল বিহু মন্দির

N

300 ft

GOVERNMENT OF THE PEOPLE'S REPUBLIC OF BANGLADESH

BANGLADESH WATER DEVELOPMENT BOARD

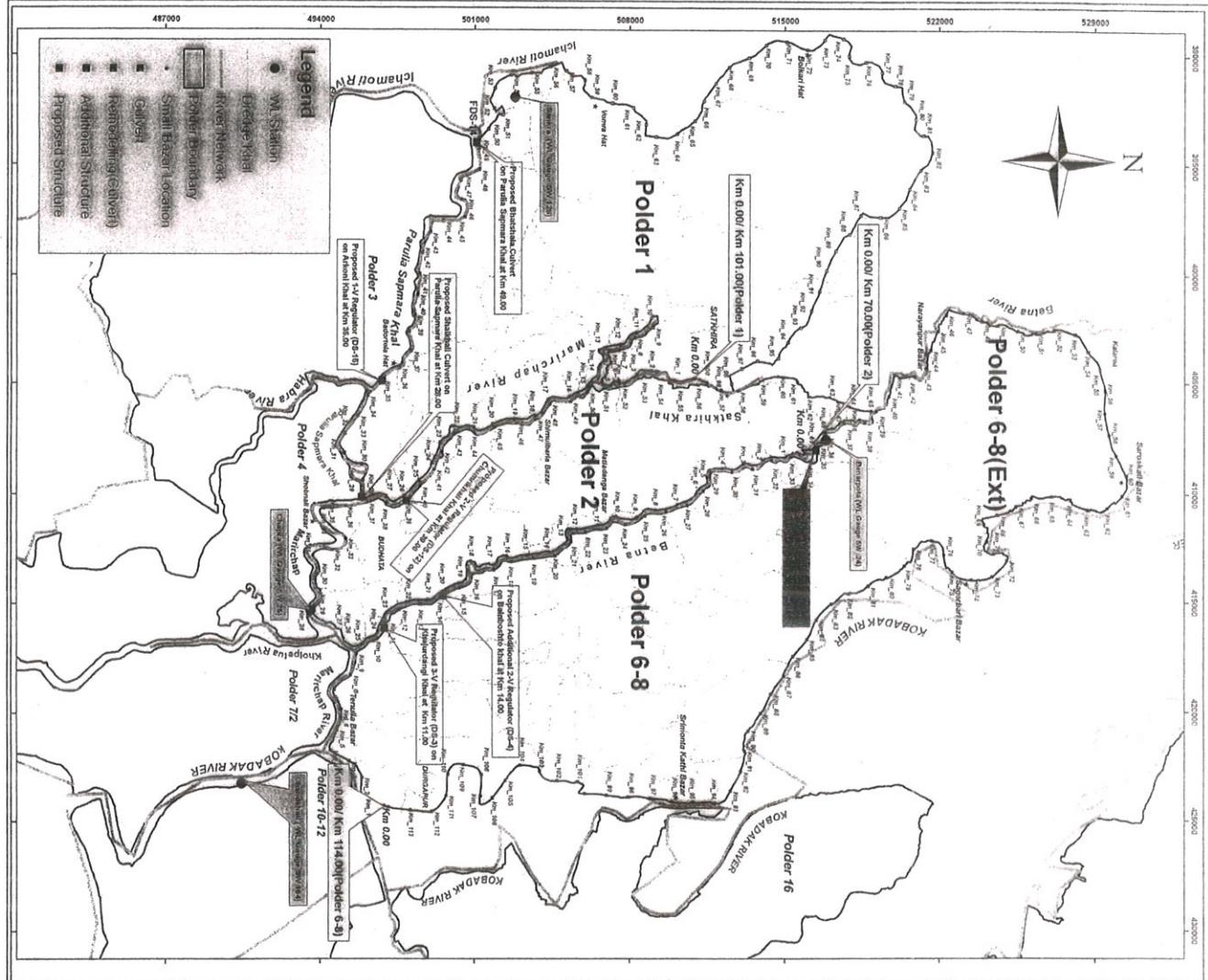


DRAINAGE IMPROVEMENT OF POLDER 1, 2, 6-8,6-8(Ext.) BY MATHEMATICAL
MODELLING UNDER SATKHIRA DISTRICT

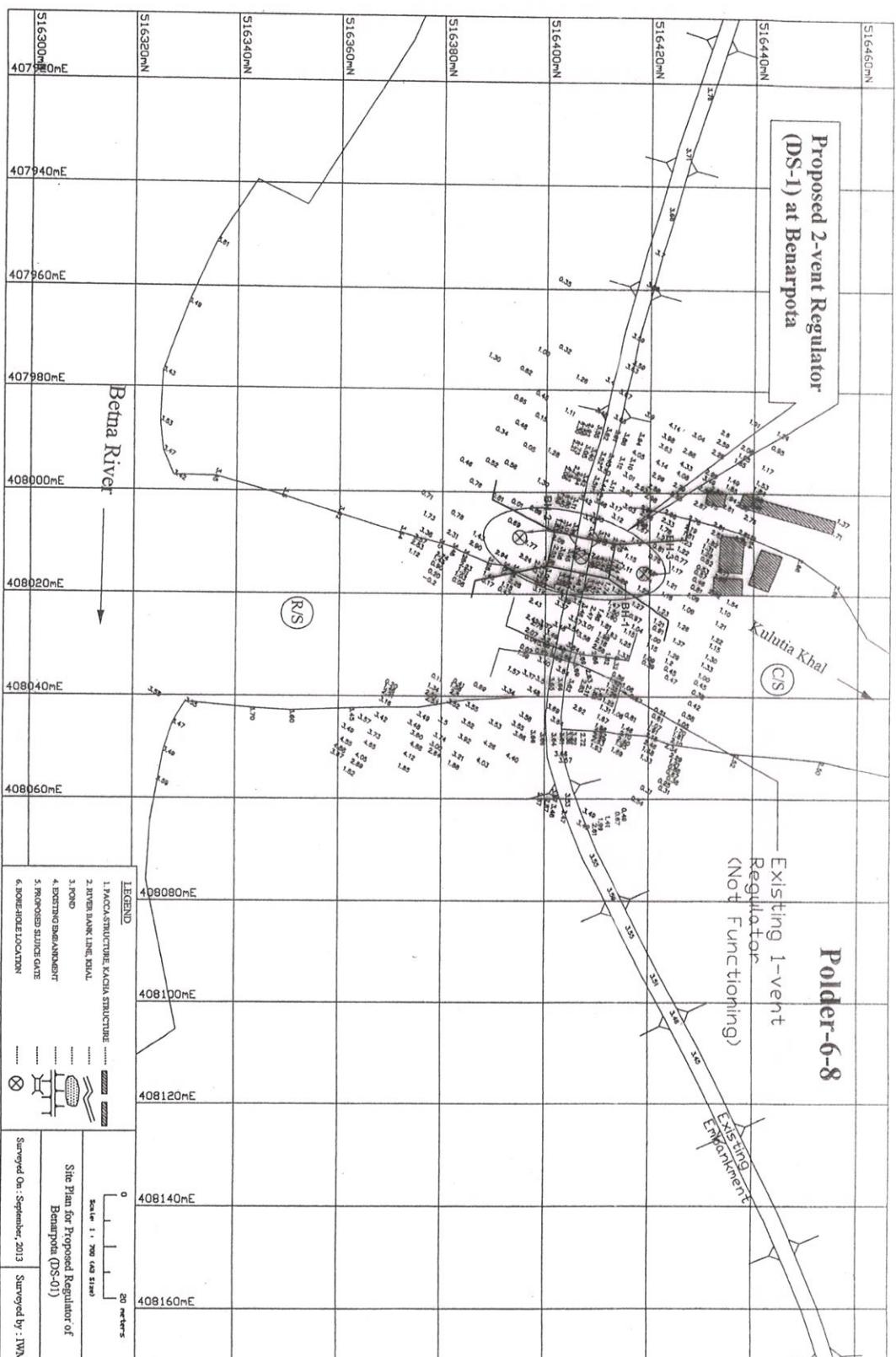
DESIGN OF 2-VENT (1.50mX1.80m) DRAINAGE CUM FLUSHING REGULATOR
(DS-1) ON KULUTIA KHAL AT Km 35.00 IN POLDER 6-8(Ext.)

SATKHIRA O & M DIVISION-2, BWDB, SATKHIRA.

NOVEMBER, 2013

**INDEX MAP**

BANGLADESH WATER DEVELOPMENT BOARD			
DESIGNED BY:	CHECKED BY:	REVIEWED BY:	APPROVED BY:
Md. Kamruzzaman Assistant Engineer	Md. Mahfuzur Rahman Executive Engineer	Md. Kader Ali Supervising Engineer	1/1
GOVERNMENT OF THE PEOPLE'S REPUBLIC OF BANGLADESH CONSULTANT: INSTITUTE OF WATER MODELLING (IWM) DRAINAGE IMPROVEMENT OF POLDERS 1, 2 & 4 THROUGH MATHEMATICAL MODELING UNDER SATKHIRA DISTRICT SATKHIRA O & M DIVISION-2, BWDB, SATKHIRA. DESIGN OF 2-VENT (1.50m x 1.80m) DRAINAGE GUM FLUSHING REGULATOR (DS-1) ON KULUTIA KHAL AT Km 35.00 IN POLDER 6-8(Ext.) INDEX MAP			
DESIGNED BY:	CHECKED BY:	RECOMMENDED & SUBMITTED BY:	
ARZEL H. KHAN DESIGN ENGINEER	M.A.H. BHUJYAN DESIGN ENGINEER	ZAHIRUL HAQUE KHAN TEAM LEADER	
DATE: NOVEMBER, 2013 DWG NO.:IWMI(P-6-8(Ext.)) SAT-2 DS-01 PAGE: 01/14			



BANGLADESH WATER DEVELOPMENT BOARD					
DESIGN CIRCLE - V					
CHECKED BY:	REVIEWED BY:	APPROVED BY:	DESIGNED BY:	CHECKED BY:	RECOMMENDED & SUBMITTED BY:
Md. Kamruzzaman Assistant Engineer	Md. Mafizur Rahman Executive Engineer	Md. Kudrat Ali Superintendent Engineer	ARZEL H. KHAN	M.A.H. BHUJAN	ZAHIR UL HAQUE KHAN
DATE: NOVEMBER, 2013	DWG NO.:IWM(P-6-8(Ext))/SAT-2/ DS-01	TEAM LEADER	PAGE: 02/14		

GOVERNMENT OF THE PEOPLE'S REPUBLIC OF BANGLADESH

CONSULTANT : INSTITUTE OF WATER MODELLING (IWM)

DRAINAGE IMPROVEMENT OF POLDER 6-8 (Ext) BY MATHEMATICAL MODELING UNDER SATKHIRA DISTRICT

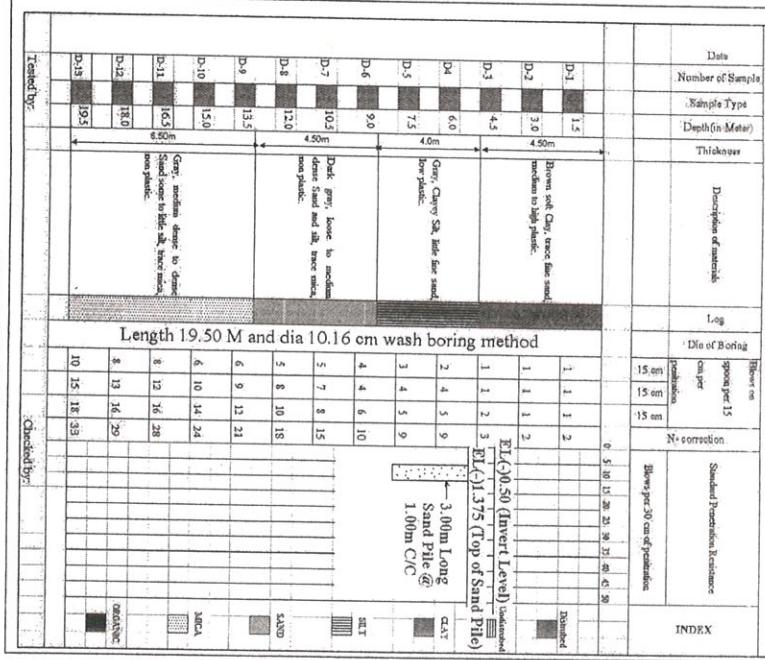
SATKHIRA O & M DIVISION-2, BWDB, SATKHIRA.

**DESIGN OF 2-VENT (1.50mX1.80m) DRAINAGE CUM FUSHING REGULATOR
(DS-1) ON KULUTIA KHAL AT KM 35.00 IN POLDER 6-8(Ext)**

Expert Soil Engineers

Client:	Institute of Water Modelling (IWM)
Project:	Flood Safety Study for Drainage Improvement of Polder 1,2&3, & 6(Ext)
Location:	DS-01 (West), Polder-6(Ext), Kalshi Khal, Bawali, Sathua District

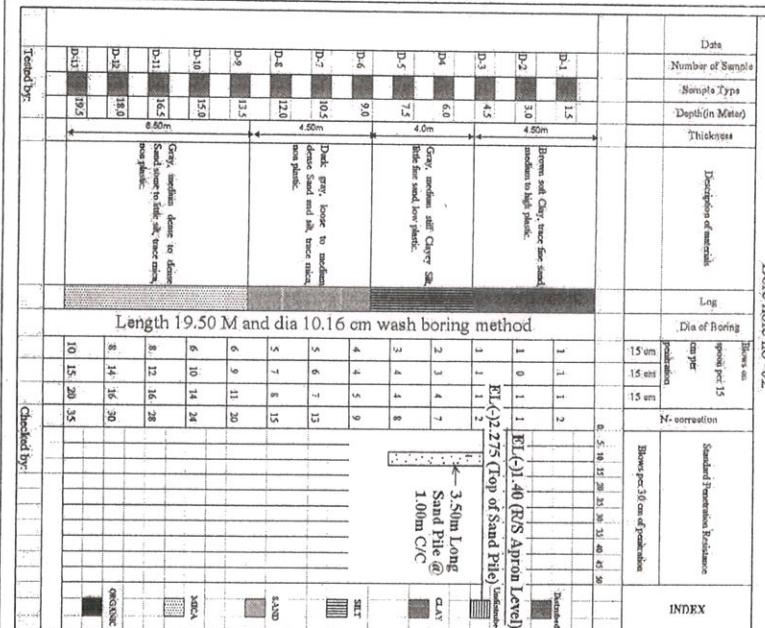
Bore hole no -01



Expert Soil Engineers

Client:	Institute of Water Modelling (IWM)
Project:	Flood Safety Study for Drainage Improvement of Polder 1,2&3, & 6(Ext)
Location:	DS-01 (West), Polder-6(Ext), Kalshi Khal, Bawali, Sathua District

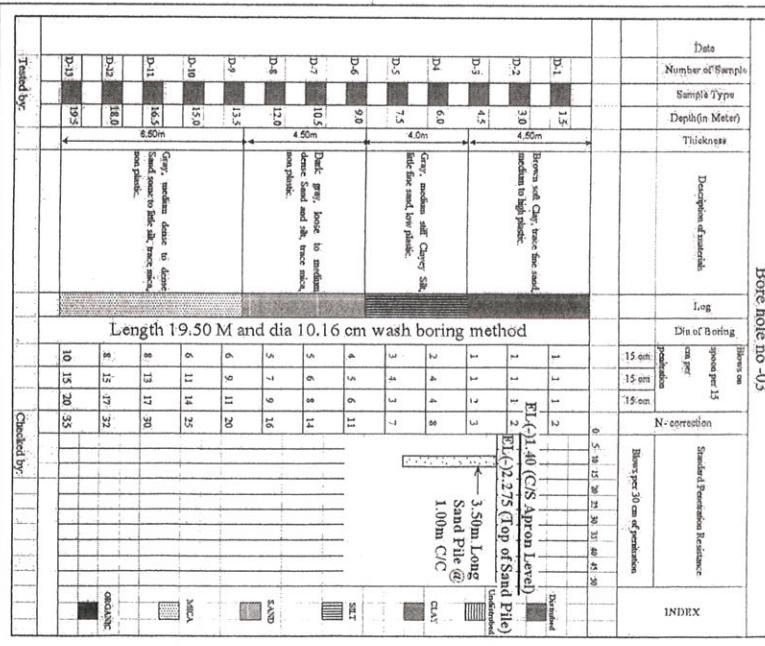
Bore hole no -02



Expert Soil Engineers

Client:	Institute of Water Modelling (IWM)
Project:	Flood Safety Study for Drainage Improvement of Polder 1,2&3, & 6(Ext)
Location:	DS-01 (West), Polder-6(Ext), Kalshi Khal, Bawali, Sathua District

Bore hole no -03



BORE LOG (BH-01) (Under Barrel)

BORE LOG (BH-02) (Under R/S Apron)

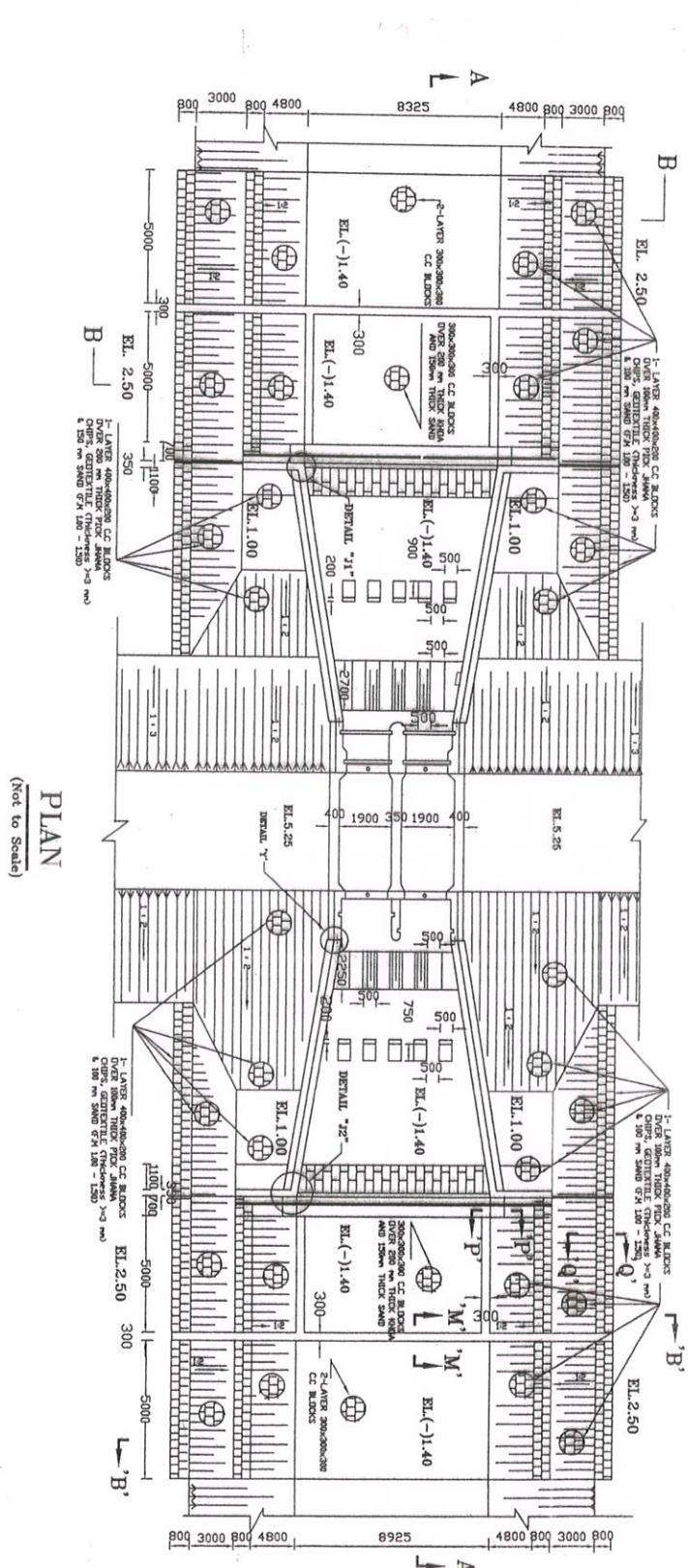
BORE LOG (BH-03) (Under C/S Apron)

BANGLADESH WATER DEVELOPMENT BOARD	
DESIGN CIRCLE - V	
CHECKED BY:	APPROVED BY:
Md. Kamruzzaman	Md. Mahfuzur Rahman
Assistant Engineer	Md. Kader Ali
	Superintendent Engineer
DATED: NOVEMBER, 2013	DWG NO.:IWM(P-6-8(Ext))/SAT-2/ DS-01
PAGE: 03/14	

GOVERNMENT OF THE PEOPLE'S REPUBLIC OF BANGLADESH
CONSULTANT: INSTITUTE OF WATER MODELLING (IWM)
DRAINAGE IMPROVEMENT OF POLDER 1,2 & 6(Ext) BY MATHEMATICAL MODELING UNDER SATKHIRA DISTRICT
SATKHIRA O & M DIVISION-2, BWDB, SATKHIRA,
DESIGN OF 2-VENT (1.50mX1.80m) DRAINAGE CUM FLUSHING REGULATOR
(DS-1) ON KULUTIA KHAL AT KM 35.00 IN POLDER 6-8(Ext)

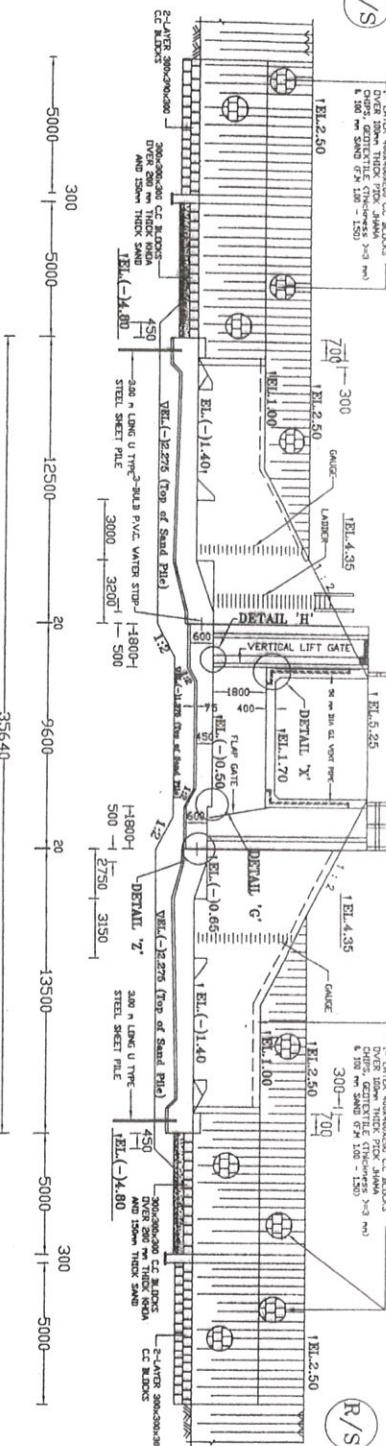
Tested by:

Checked by:



PLAN
(Not to Scale)

BANGLADESH WATER DEVELOPMENT BOARD		
GOVERNMENT OF THE PEOPLE'S REPUBLIC OF BANGLADESH		
CONSULTANT : INSTITUTE OF WATER MODELLING (IWM)		
DRAINAGE IMPROVEMENT OF POLDER 1/2, 1A & 4 (YEAR: BY MATHEMATICAL MODELING UNDER SATKHIRA DISTRICT		
SATKHIRA O & M DIVISION, BWDB, SATKHIRA.		
DESIGN OF 2-VENT (1.50mX1.30m) DRAINAGE CUM FLUSHING REGULATOR (DS-1) ON KULUTIA KHAL AT Km 35.00 IN POLDER 6-8(Ext.)		
PLAN		
BANGLADESH WATER DEVELOPMENT BOARD		
DESIGN CIRCLE - V		
CHECKED BY:	REVIEWED BY:	APPROVED BY:
Md. Kamruzzaman Assistant Engineer	Md. Md. Matibuzzar Rahman Executive Engineer	Md. Kudrat Ali Superintendent Engineer
DESIGNED BY:		
ARZEL H. KHAN	M.A.H. BHUJAN	ZAIRUL HAQUE KHAN
DESIGN ENGINEER	DESIGN ENGINEER	TEAM LEADER
DATED: NOVEMBER, 2013 DWG NO: IWM/IP-6-8(Ext.)/ISAT-2 DS-01 PAGE: 04/14		



SECTION A-A (SEE PLAN)

(Sand Pile Under Barrel, C/S & R/S Apron are not Shown)

NOTES :

- THE SPECIFICATION OF MATERIALS & WORKMANSHIP SHALL BE CONFORM TO THE "STANDARD TECHNICAL SPECIFICATION" OF BWDB IN GENERAL.
- ALL DIMENSIONS ARE IN MILLIMETER BUT ALL ELEVATIONS ARE IN METER (PWD) UNLESS OTHERWISE MENTIONED IN THE DRAWING.
- CONCRETE SHALL BE POURED IN DRY BED CONDITIONS.
- THE SURFACE OF CONSTRUCTION JOINTS SHALL BE WASHED THOROUGHLY WITH WATER JET AND SHALL BE CLEAN ENOUGH AND SURFACE DRY PRIOR TO PLACEMENT OF ADJOINING CONCRETE.
- CONCRETE SHALL DEVELOP A CRUSHING STRENGTH (CYLINDER STRENGTH) OF 20.00 N/mm² AT 28 DAYS AND SHALL BE CHECKED BY COLLECTING SAMPLES AND TESTING DURING CONSTRUCTION.
- REINFORCEMENT SHALL BE DEFORMED MS BARS, fy = 414 N / Sqmm (MADE FROM BILLET) IN R.C.C. WORKS.
- MINIMUM LAP LENGTH SHALL BE 40 TIMES THE BAR DIAMETERS .
- ALL EXPANSION JOINTS SHALL HAVE A GAP OF 20 mm.
- UNLESS OTHERWISE SPECIFIED, BACK FILLING SHALL BE DONE WITH SAND (FM=0.80) FREE FROM VEGETABLE ROOTS AND ORGANIC MATTER. BACK FILLING FOR U-SHAPED WALL SHALL BE DONE SIMULTANEOUSLY ON BOTH WALLS.
- CONCRETE FOR C.C. BLOCKS SHALL DEVELOP A MINIMUM CRUSHING STRENGTH OF 9.00 N/mm² (CYLINDER STRENGTH) AT 28 DAYS CURING.
- CURING OF C.C. BLOCKS SHALL BE CONTINUED FOR MINIMUM 21 DAYS.
- DESIGN OF GATE AND HOISTING SYSTEM SHALL BE PREPARED BY CONSULTANT AND VATIED FROM DESIGN CIRCLE -III, BWDB, DHAKA.
- CLEAR COVER
 - a) OPERATING DECK & RAILING : 25 mm
 - b) CONCRETE ADJACENT TO EARTH AT FOUNDATION : 75 mm
 - c) CONCRETE ADJACENT TO WATER OR OTHERS : 60 mm
 - d) CONCRETE EXPOSED TO WEATHER & OTHERS : 40 mm
- THE WORK SHALL BE EXECUTED AFTER ADMINISTRATIVE AND FINANCIAL APPROVAL FROM THE COMPETENT AUTHORITY.

BANGLADESH WATER DEVELOPMENT BOARD

GOVERNMENT OF THE PEOPLE'S REPUBLIC OF BANGLADESH
CONSULTANT : INSTITUTE OF WATER MODELLING (IWM)
DRAINAGE IMPROVEMENT OF POLDER 3-2, AS-EFFECTED BY MATHEMATICAL MODELLING UNDER SATKHIRA DISTRICT
SATKHIRA Q & M DIVISION-2, BWDB, SATKHIRA.

DESIGN OF 2-VENT (1.50mX1.80m) DRAINAGE CUM FLUSHING REGULATOR (DS-1) ON KULUTIA KHAL AT Km 35.00 IN POLDER 6-8(Ext)

NOTES & SECTION

RECOMMENDED & SUBMITTED BY:

PAGE: 05/14

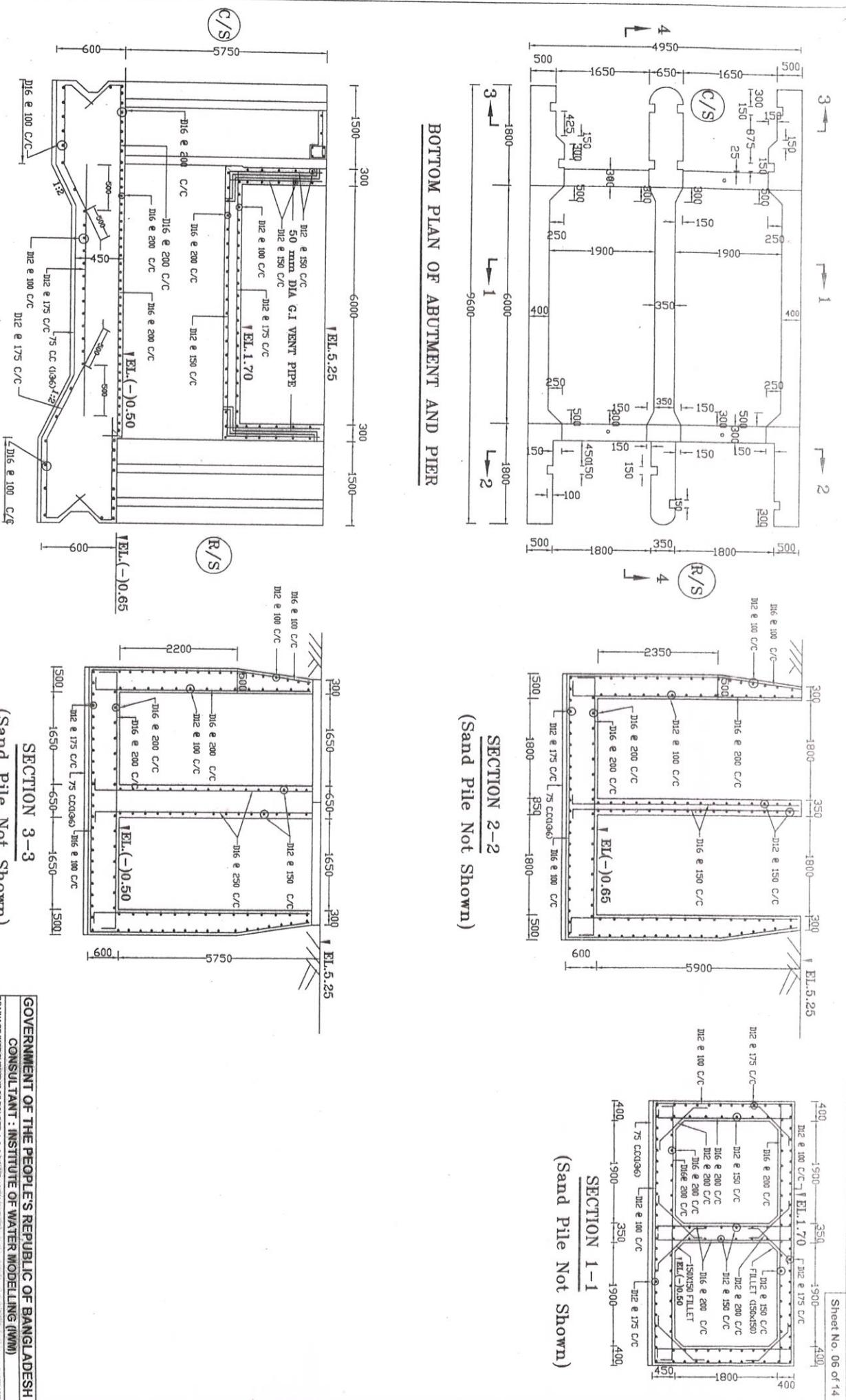
DESIGNED BY:	CHECKED BY:
Md. Kaziuzzaman	Md. Md. Mafizur Rahman

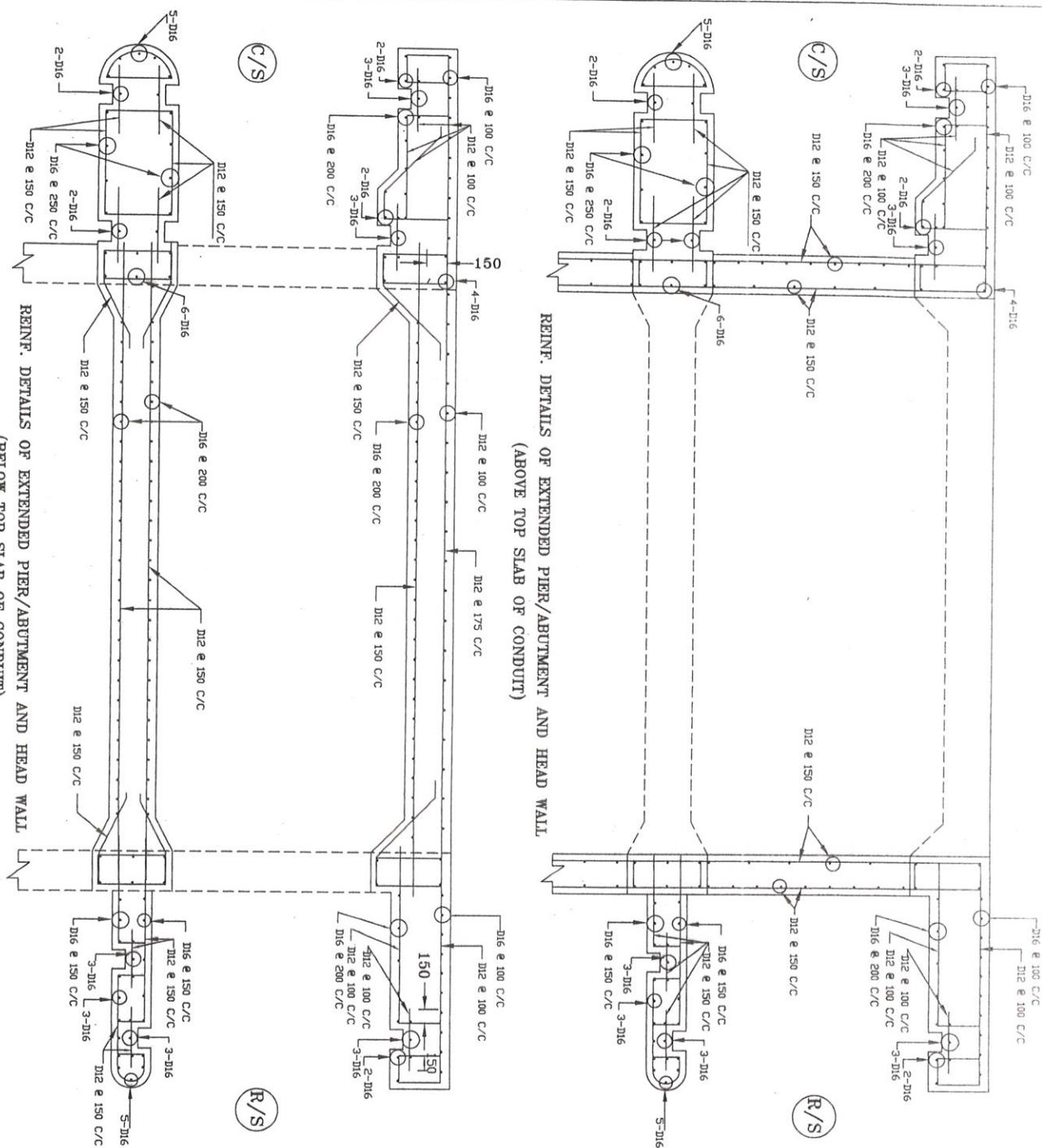
APPROVED BY:	REVIEWED BY:
Md. Md. Mafizur Rahman	Md. Md. Mafizur Rahman

DESIGN ENGINEER	DESIGN ENGINEER	TEAM LEADER
Md. Kudrat Ali	ZABIR-Ul-HAQ KHAN	

DATED: NOVEMBER, 2013 DWG NO.:IWM(P-6-8(Ext))/SAT-2/ DS-01 PAGE: 05/14

Scale : Not To Scale





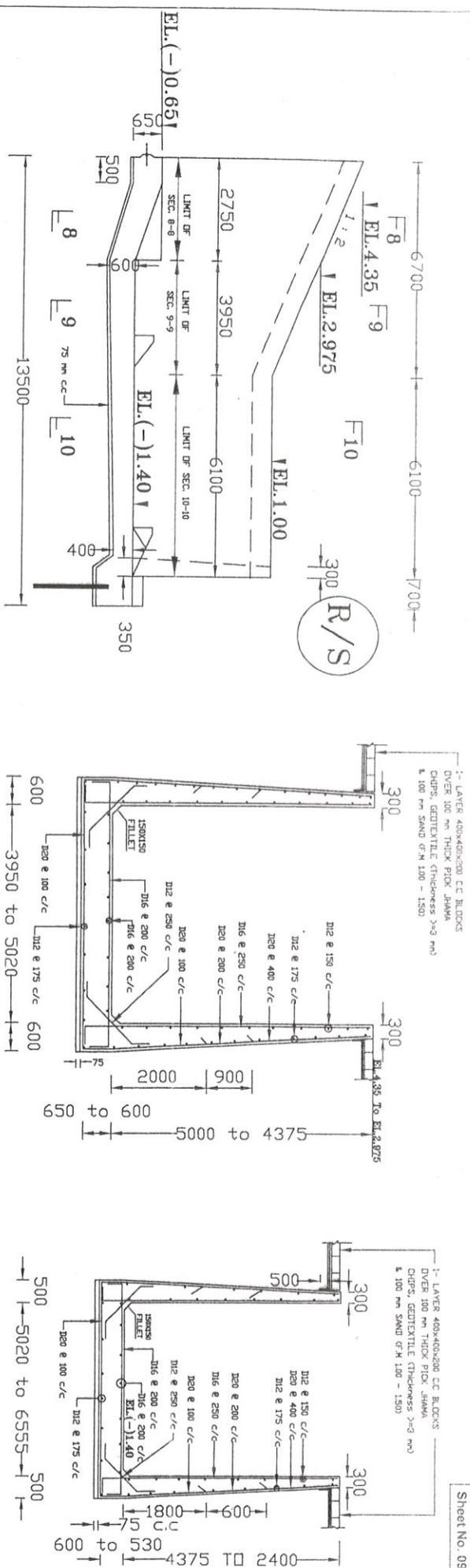
REINF. DETAILS OF EXTENDED PIER/ABUTMENT AND HEAD WALL
(BELOW TOP SLAB OF CONDUIT)

BANGLADESH WATER DEVELOPMENT BOARD		REINF. DETAILS OF ABUTMENT	
DESIGN CIRCLE - V		RECOMMENDED & SUBMITTED BY:	
CHECKED BY:	REVIEWED BY:	DESIGNED BY:	CHECKED BY:
<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
APPROVED BY:		M.A.H. BHUAN	ZAHR-U-L HQUE KHAN
		ARZEL H. KHAN	
Md. Kamruzzaman	Md. Mafuzur Rahman	DESIGN ENGINEER	DESIGN ENGINEER
Assistant Engineer	Executive Engineer	TEAM LEADER	
DATED: NOVEMBER, 2013		DWG NO.:WMM(P-6-8)(Exl)) / SAT-2 / DS-01	PAGE: 07/14

GOVERNMENT OF THE PEOPLE'S REPUBLIC OF BANGLADESH
CONSULTANT: INSTITUTE OF WATER MODELLING (IWM)
DRAINAGE IMPROVEMENT OF POLDER 6-8 (4.6-8.6km²) BY MATHEMATICAL MODELLING UNDER SATHKHIRA DISTRICT

SATHKHIRA O & M DIVISION-2, BWDB, SATHKHIRA.

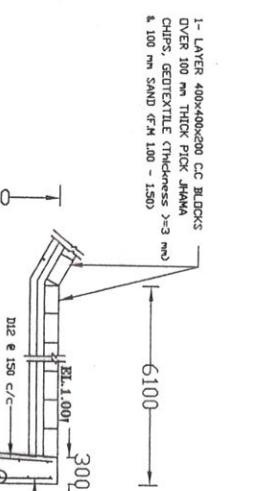
DESIGN OF 2-VENT (1.50m x 1.80m) DRAINAGE CUM FLUSHING REGULATOR
(DS-1) ON KULLUTTA KHAL AT Km 35.00 IN POLDER 6-8(Exl)



(Sand Pile Not Shown)

SECTION 8-8
(Sand Pile Not Shown)

SECTION 5-5
(Sand Pile Not Shown)



The diagram illustrates a bridge pier foundation with the following details:

- Pile Locations:**
 - Front Pile: 16# 200 C/C
 - Side Piles: 16# 200 C/C (one on each side)
 - Back Pile: 16# (1) 40
- Dimensions:**
 - Width of the foundation: 11-75 C.C.
 - Length of the foundation: 530 to 400
 - Depth of the piles: 350
 - Vertical distances from the base to the top of the piles: 16# e 175 C/C, 16# e 150 C/C, and 16# e 200 C/C.
- Text Labels:**
 - SECTION 10-10
 - (Sand Pile Not Shown)

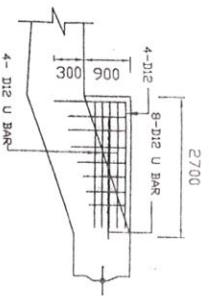
R/S RETURN WALL
(Sand Pile Not Shown)

→ 6555 to 8925 →
SECTION 10-10
(Sand Pile Not Shown)

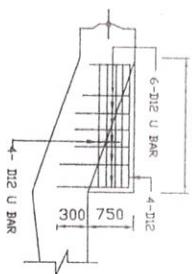
Scale : Not to Scale

BANGLADESH WATER DEVELOPMENT BOARD			
REINF. DETAILS OF RIS WING WALL & RETURN WALL			
CHECKED BY:	REVIEWED BY: APPROVED BY:		
Md. Kamruzzaman Assistant Engineer	Md. Mdakbarul Rahman Executive Engineer	Md. Kader Ali Superintendent Engineer	ARZEL H. KHAN DESIGN ENGINEER
DATED: NOVEMBER, 2013		DWG NO.:WWMP(2-6-8)(EXT.)/SAT-2/DS-01	PAGE: 09/14
RECOMMENDED & SUBMITTED BY:		DESIGNED BY:	
M.A.H. BHUIYAN		ZAHIRUL HAQUE KHAN	TEAM LEADER

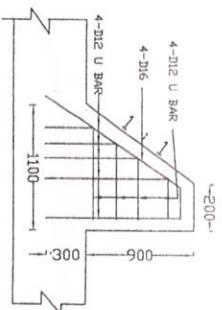
REINF. DETAILS OF



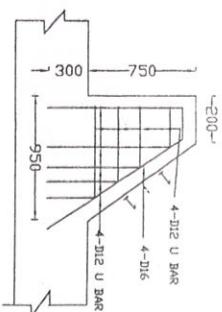
**REINF. DETAILS OF
R/S CHUTE BLOCK**



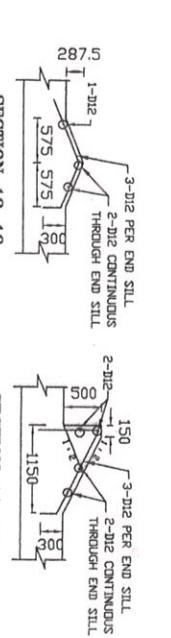
**REINF. DETAILS OF
C/S RAFFLE BLOCK**



**REINF. DETAILS OF
R/S BAFFLE BLOCK**



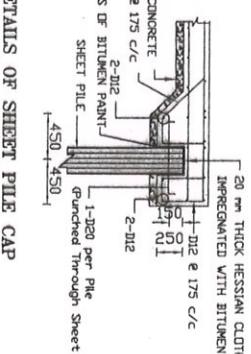
A partial site plan showing a building footprint with dimensions. The top horizontal dimension is labeled 350, 350, 350. To the right of the building, there are two vertical dimensions: 12 at the top and 11 below it. Below the building, there are two more vertical dimensions: 11 on the left and 12 on the right.



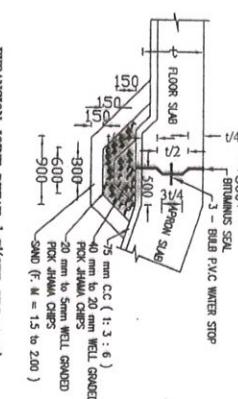
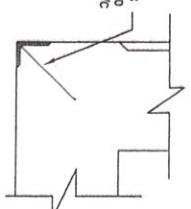
SECTION 12-12

SECTION 11-11

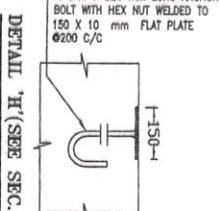
DETAILS OF SHEET PILE CANTILEVER



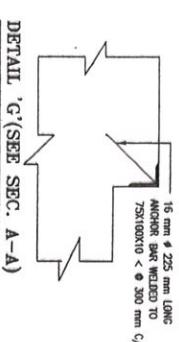
DETAIL 'X' (SEE SEC. A-A)



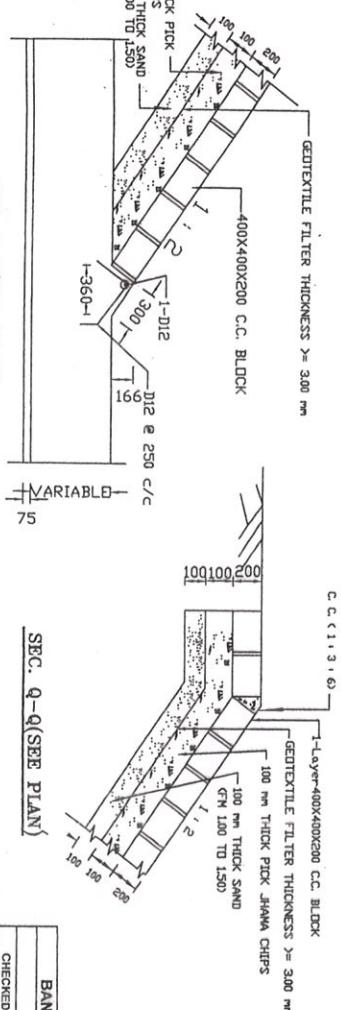
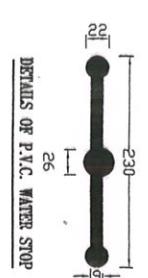
EXPANSION JOINT DETAIL 'Z'(SEE SEC. A-A)



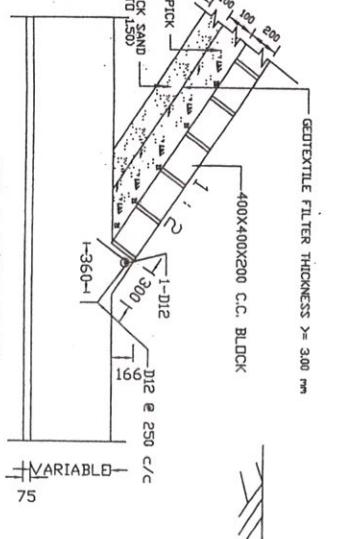
DETAIL 'H'(SEE SEC. A-A)



DETAILS OF P.V.C. WATER STOP

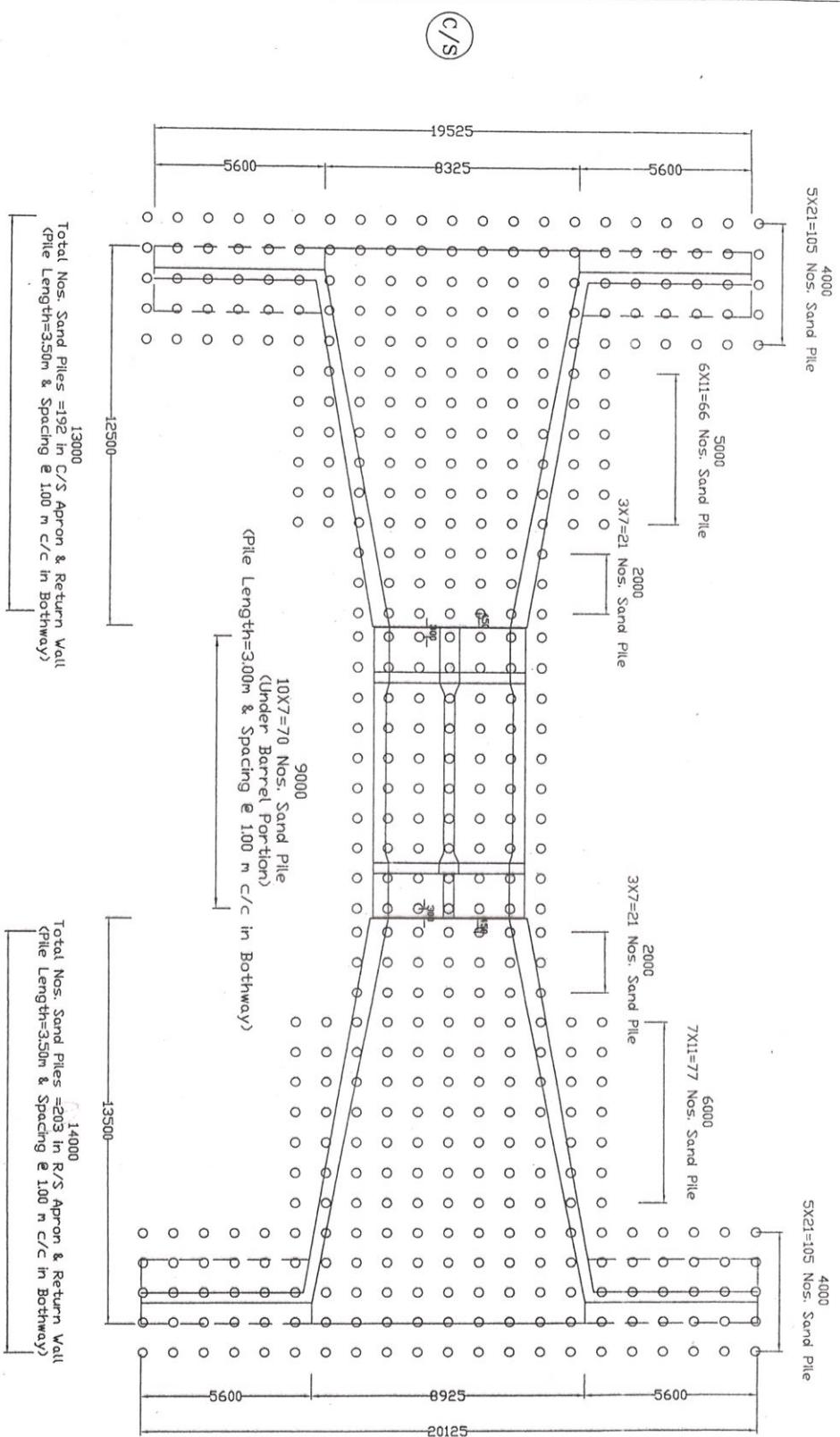


SEC. Q-Q(SEE PLAN)



Scale : Not To Scale

GOVERNMENT OF THE PEOPLE'S REPUBLIC OF BANGLADESH					
CONSULTANT : INSTITUTE OF WATER MODELLING (IWM)					
DRAINAGE IMPROVEMENT OF POLDER 1, 2 & 4(Ex-1) BY MATHEMATICAL MODELING UNDER SATKHIRA DISTRICT					
SATKHIRA O & M DIVISION-2, BWBD, SATKHIRA.					
DESIGN OF 2-AVENT (1.50mX1.80m) DRAINAGE CUM FLUSHING REGULATOR (DS-1) ON KULUTIA KHAI AT Km 35.00 IN POLDER 6-8(Ex-1)					
BANGLADESH WATER DEVELOPMENT BOARD					
DESIGN CIRCLE V			MISCELLANEOUS DETAILS		
CHECKED BY:	REVIEWED BY:	APPROVED BY:	DESIGNED BY:	CHECKED BY:	RECOMMENDED & SUBMITTED BY:
Md. Kamruzzaman Assistant Engineer	Md. Mahfuzur Rahman Executive Engineer	ARZEL H. KHAN DESIGN ENGINEER	M.D. KADER ALI Supervising Engineer	M.A.H. BHUIYAN DESIGN ENGINEER	ZAHRUL HAQUE KHAN TEAM LEADER
DATE: NOVEMBER, 2013			DWG NO: IWMIP/M-6-3(Ex-1) / SAT-2 / DS-01		
			PAGE: 10/14		



LAYOUT PLAN OF SAND PILE UNDER BARREL, C/S & R/S APRON AND RETURN WALL

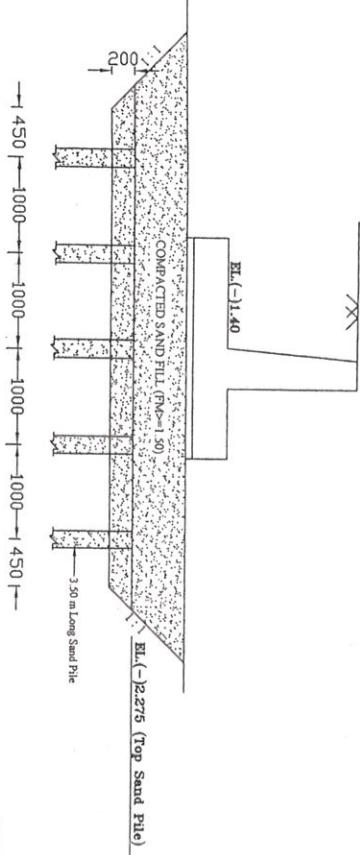
BANGLADESH WATER DEVELOPMENT BOARD		
DESIGN CIRCLE - V		
CHECKED BY: <u>T. Sengupta</u>	REVIEWED BY: <u>S. H. Islam</u>	APPROVED BY: <u>M.A.H. Bhuiyan</u>
Mr. Kamruzzaman Assistant Engineer	Md. Mafizur Rahman Executive Engineer	Arzel H. Khan Design Engineer
DATED: NOVEMBER, 2013 DNG NO.: (WWM/EP-6-30(EXT.)) SAT-72/DS-01 PAGE: 12/14		
LAYOUT PLAN OF SAND PILE		
DESIGNED BY: <u>M.D. Ansari</u>	CHECKED BY: <u>A. H. Khan</u>	RECOMMENDED & SUBMITTED BY: <u>Zahirul Haque Khan</u> TEAM LEADER
DESIGN INSTITUTE OF WATER MODELLING (IWM) CONSULTANT: INSTITUTE OF WATER MODELLING (IWM) DRAINAGE APPROVALS OF POLDER 12, 5 & 6 (EXT.) BY METROPOLITAL MODEL UNIVERSTY, SATKHIRA DISTRICT SATKHIRA O & M DIVISION, 2, BWDB, SATKHIRA. DESIGN OF 2-VENT (1.50mX1.80m) DRAINAGE CUM FLUSHING REGULATOR (DS-1) ON KULUTA KHAL AT Km 35.00 IN POLDER 6-3(EXT.)		

NOTES FOR SAND PILE

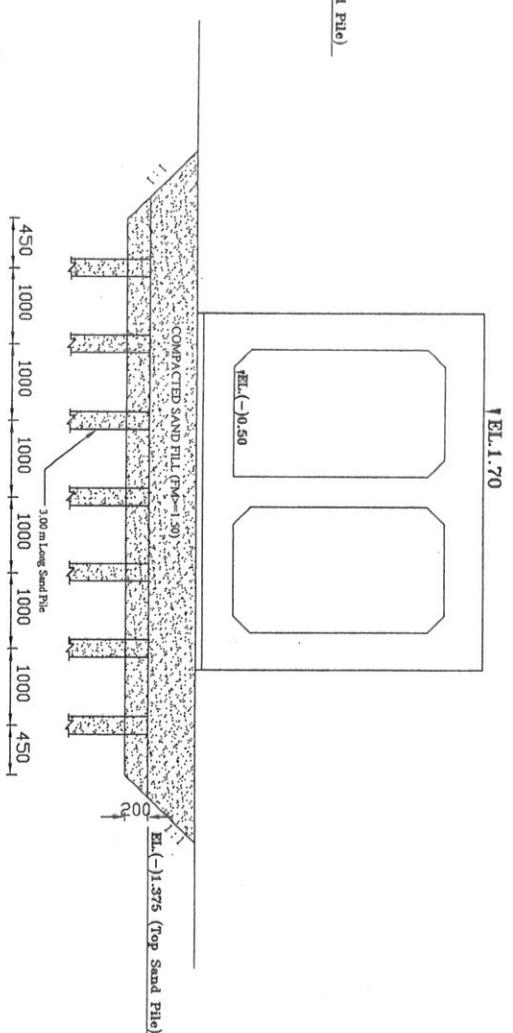


**TYPICAL SECTION OF SAND FILL
UNDER C/S RETURN WALL**

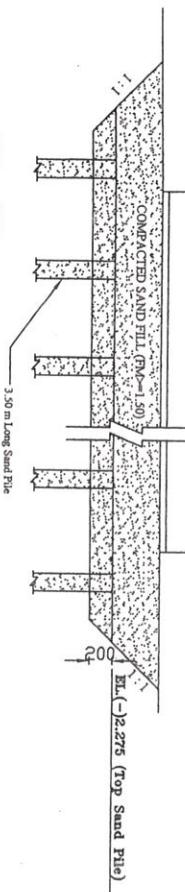
- SAND PILE OF 3.00m / 3.50m LENGTH WITH 300 mm CASING DIA AS SPECIFIED IN THE DRAWING SHALL HAVE TO BE CONSTRUCTED AS PER STANDARD DISPLACEMENT METHOD.
- SAND TO BE USED IN PILING SHALL BE FREE FROM ALL ORGANIC AND FOREIGN MATERIALS AND SHALL HAVE F.M>2.00
- DIA, LENGTH, CONTINUITY OF PILE SHALL HAVE TO BE CHECKED BY MEASURING SAND FORCE VOLUME FOR EACH EXECUTED PILE INTERVALS UPTO A DEPTH OF 6.00m AT RANDOM LOCATIONS OF BARREL, USE FLOOR, DIS FLOOR AND RETURN WALLS SHALL BE DETERMINED.
- AFTER EXECUTION OF ALL SAND PILE SPT VALUES SHALL HAVE TO BE DETERMINED BY THE FIELD TESTS. SPT VALUES ATTAINED AT 1.50 m INTERVALS UPTO A DEPTH OF 6.00m AT RANDOM LOCATIONS OF BARREL, USE FLOOR, DIS FLOOR AND RETURN WALLS SHALL BE DETERMINED.
- AFTER PILING SPT VALUE IN BETWEEN AND AT THE CENTRE OF PILE AT FOUNDATION LEVEL SHALL BE MINIMUM 8 TO 10 RESPECTIVELY.



**TYPICAL SECTION OF SAND FILL
UNDER R/S RETURN WALL**



**TYPICAL SECTION OF SAND
FILL UNDER BARRIER**

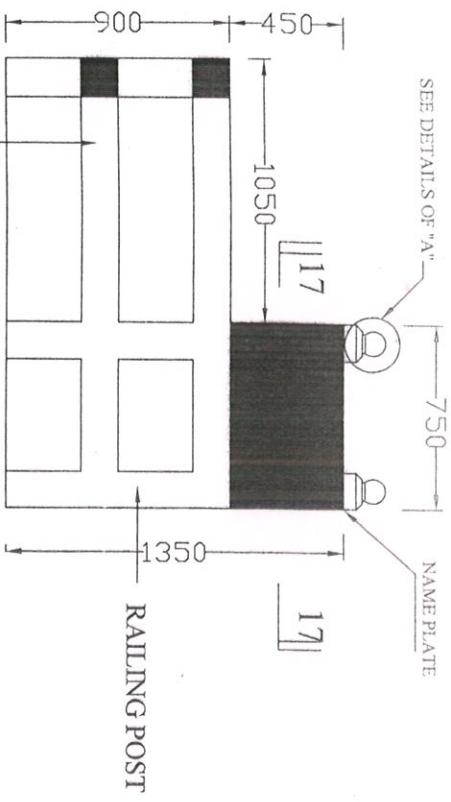


**TYPICAL SECTION OF SAND
FILL UNDER WING WALL**

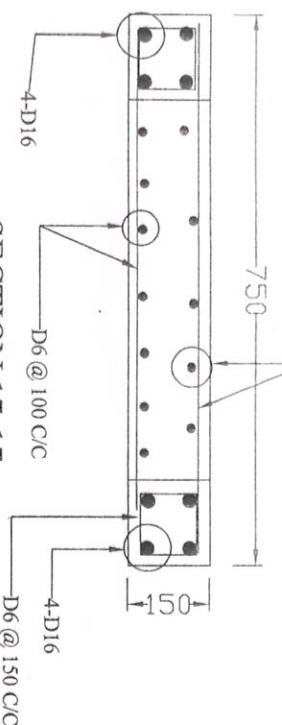
GOVERNMENT OF THE PEOPLE'S REPUBLIC OF BANGLADESH					
CONSULTANT : INSTITUTE OF WATER MODELLING (IWM)					
DRAINAGE IMPROVEMENT OF POLDER 1,2,3 & 4(FAR) BY MATHEMATICAL MODELING UNDER SATKHIRA DISTRICT					
SATKHIRA O & M DIVISION-2, BWDB, SATKHIRA,					
DESIGN OF 2-VENT (1.50mx1.80m) DRAINAGE CUM FLUSHING REGULATOR (DS-1) ON KULUTIA KHAL AT KM 35.00 IN POLDER 6-8(Ext.)					
BANGLADESH WATER DEVELOPMENT BOARD					
DESIGN CIRCLE - V					
DESIGNED BY:	REVIEWED BY:	APPROVED BY:	RECOMMENDED & SUBMITTED BY:		
				M.A.H. BHUJAN	ZAHIR-U HAQUE KHAN
Md. Kamruzzaman Assistant Engineer	Md. Maitzur Rahman Executive Engineer	Md. Kufrat Ali Superintendent Engineer	Arzeen H. Khan DESIGN ENGINEER	M.A.H. BHUJAN DESIGN ENGINEER	ZAHIR-U HAQUE KHAN TEAM LEADER
DATED: NOVEMBER, 2013 DWG NO.:WWM(P- 6-8(Ext.)) / SAT-2 / DS-01					
PAGE: 13/14					

Scale: Not To Scale

SEE DETAILS OF "A"



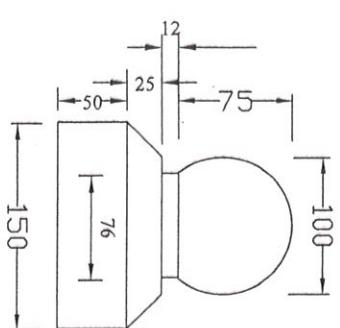
RAILING POST

SECTION 17-17

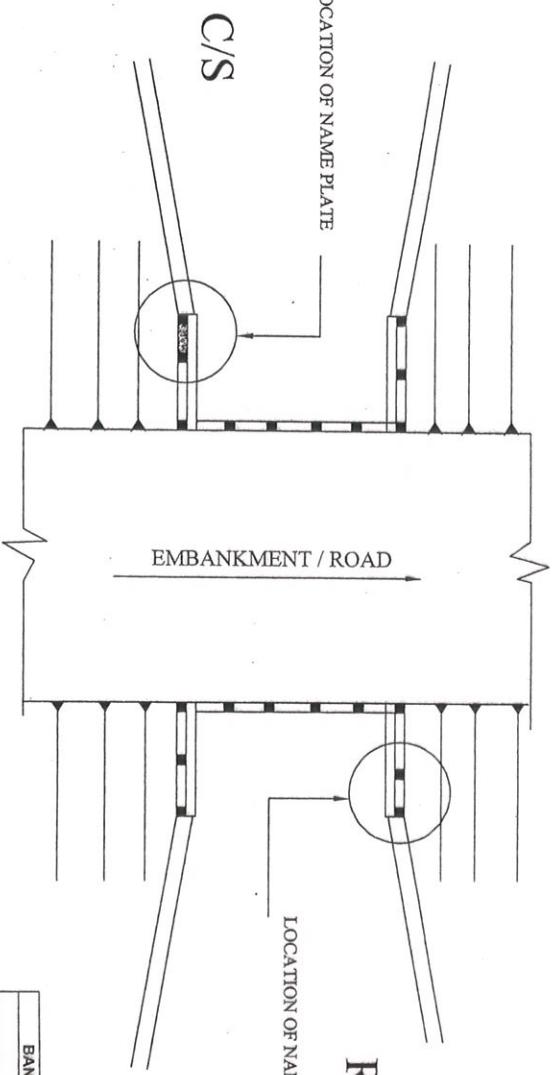
D6 @ 100 C/C

NOTES

1. THE NAME PLATE SHALL BE PLACED AT THE LEFT SIDE OF BOTH APPROACHES.
2. THE SIZE OF LETTER SHOULD BE 30 mm TO 40 mm & IT SHOULD BE ENGRAVED IN THE PLATE.
3. THE COLOR OF THE LETTER SHOULD BE WHITE ON MEDIUM BLUE SURFACE.
4. THE NAME PLATE SHOULD BE CAST MONOLITHICALLY WITH THE POST AND THE WRITINGS SHOULD BE WRITTEN ON THE PLATE AFTER PLASTERING.



DETAILS OF "A"

ELEVATION

GOVERNMENT OF THE PEOPLE'S REPUBLIC OF BANGLADESH
CONSULTANT : INSTITUTE OF WATER MODELLING (IWM)
DRAINAGE IMPROVEMENT OF POLDER 1, 2, 4 & 6(Ext) BY MATHEMATICAL MODELLING UNDER SATKHIRA DISTRICT
SA-TKHIRA, O & M DIVISION-2, BWDB, SA-TKHIRA.
DESIGN OF 2-VENT (1.50mX1.80m) DRAINAGE CUM FLUSHING REGULATOR
(DS-1) ON KULLUTA KHAL AT Km 35.00 IN POLDER 6-8(Ext.)

PLAN, ELEVATION & DETAILS OF NAME PLATEDESIGN CIRCLE - VCHECKED BY: *[Signature]*REVIEWED BY: *[Signature]*APPROVED BY: *[Signature]*

RECOMMENDED & SUBMITTED BY:

RECOMMENDED & SUBMITTED BY: