

THIS E COPY OF BID DOCUMENT IS FOR INFORMATION AND INSPECTION TO THE PROSPECTIVE BIDDERS. BIDDERS MUST PURCHASE BID DOCUMENT FROM ALTERNATIVE ENERGY PROMOTION CENTER (AEPC) AS INDICATED IN THE BID NOTICE FOR BIDDING.

SANIVERI UTTARGANGA MINI HYDROPOWER PROJECT

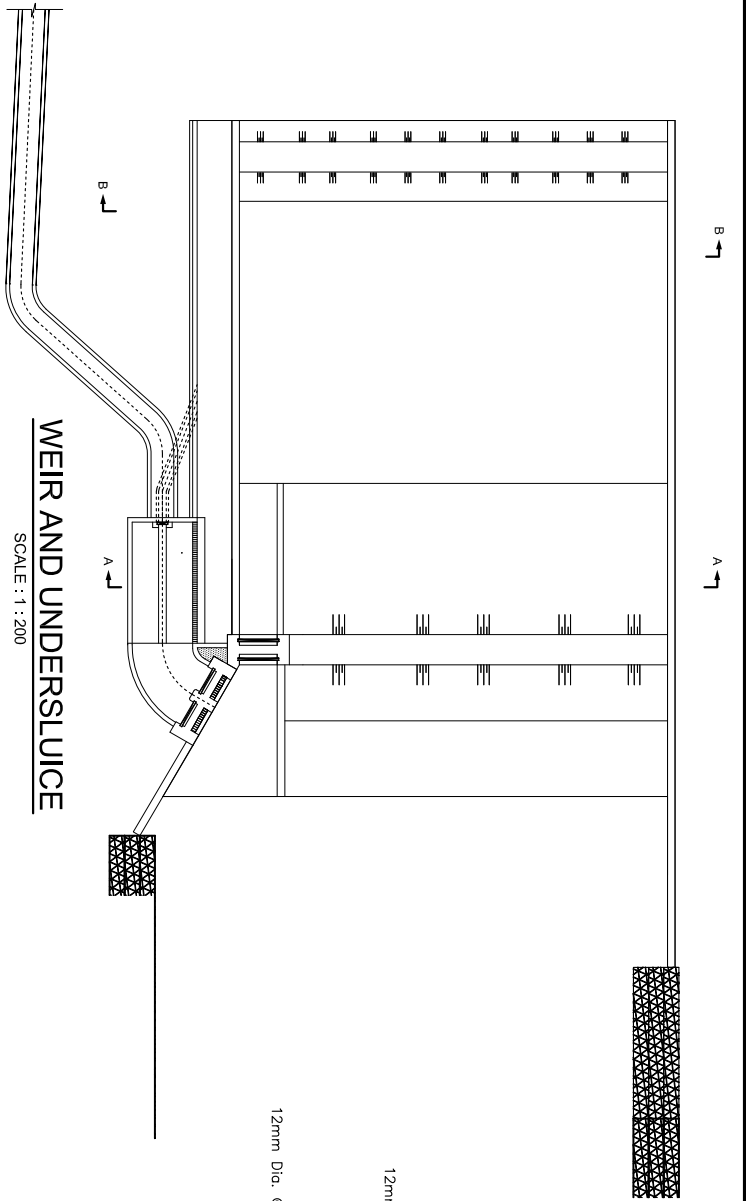
STRUCTURAL DRAWINGS

March 2019

LIST OF DRAWINGS
PROJECT : SANIVERI UTTARGANGA MINI HYDROPOWER PROJECT

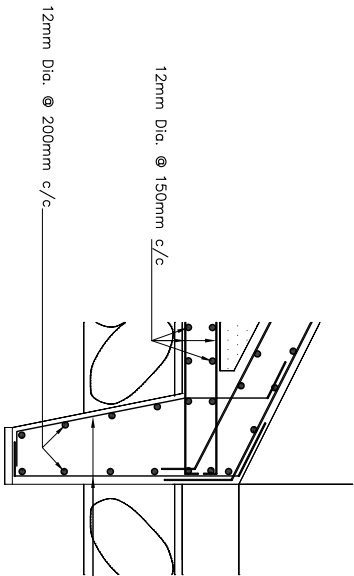
S.N	DRAWING NUMBER	DRAWING TITLE
1	SUMHP/DED-05S-01 to 03	HEADWORKS Weir and Undersluice: Sections
2	SUMHP/DED-10S-01	INTAKE & UNDERSLUCIE Intake Gate and Undersluice Gate Portion: Plan & Sections
3	SUMHP/DED-15S-01	GRAVEL TRAP Gravel Trap Typical Section
4	SUMHP/DED-20S-01	APPROACH CANAL Typical Section of Approach Canal
5	SUMHP/DED-25S-01 SUMHP/DED-25S-02 SUMHP/DED-25S-03	SETTLING BASIN Settling basin: Plan And Profile Settling basin: Sections Settling basin: Flushing arrangement, plan and sections

S.N	DRAWING NUMBER	DRAWING TITLE
6	SUMHP/DED-30S-01 SUMHP/DED-30S-02	HEADRACE CANAL Headrace canal: General plan Headrace canal: Typical sections
7	SUMHP/DED-35S-01 SUMHP/DED-35S-02	FOREBAY Forebay: Plan and Profile Forebay: Sections
8	SUMHP/DED-55A-01 to 02 SUMHP/DED-55B-01 SUMHP/DED-55C-01 SUMHP/DED-55D-01 SUMHP/DED-55E-01	POWERHOUSE Powerhouse: Machine Foundation Powerhouse: Foundation and Column Powerhouse: Foundation Tie Beam Powerhouse: Floor Beams Powerhouse: Roof Details



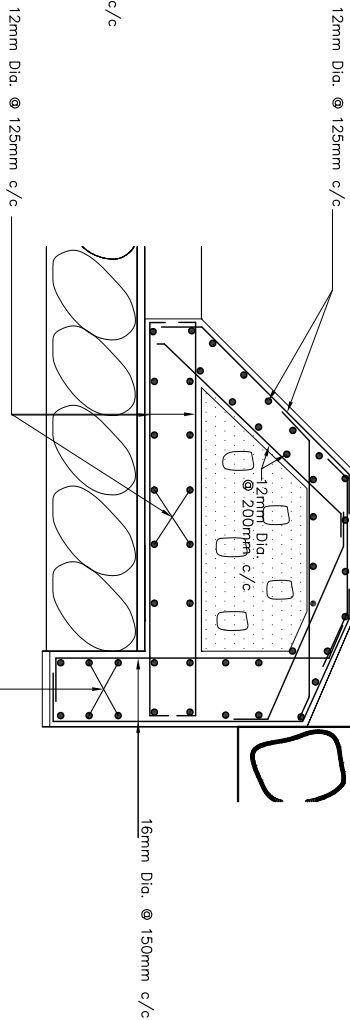
WEIR AND UNDERSLUICE

SCALE : 1 : 200



DETAIL C

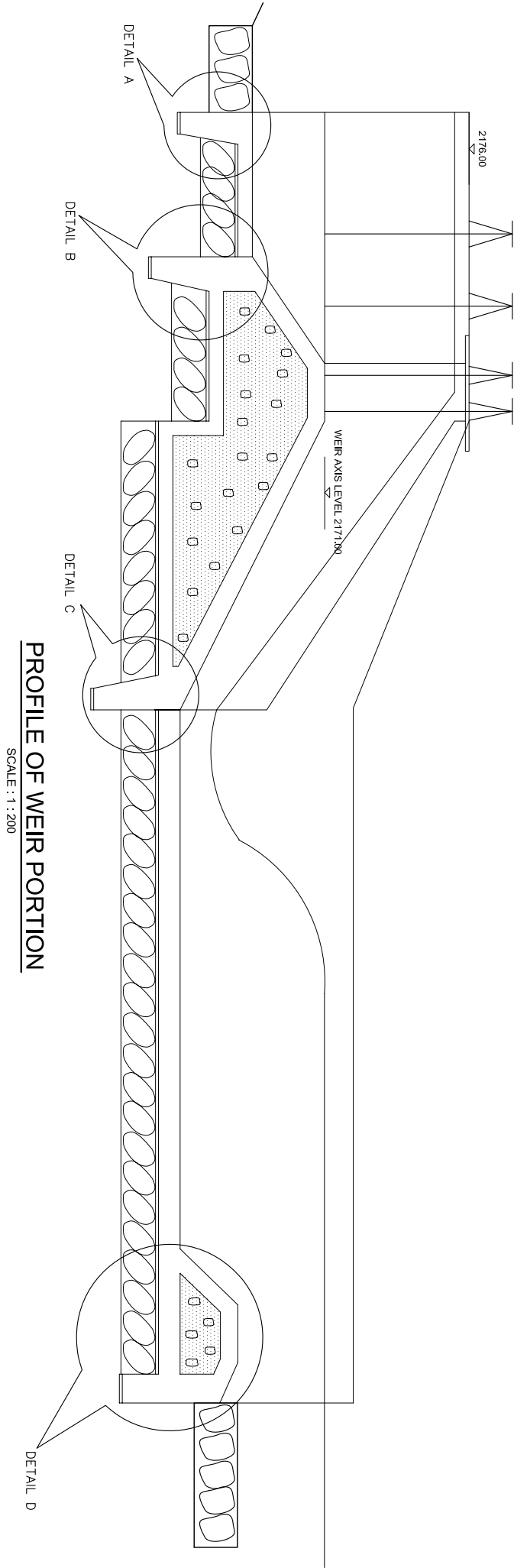
SCALE : 1 : 100



DETAIL D

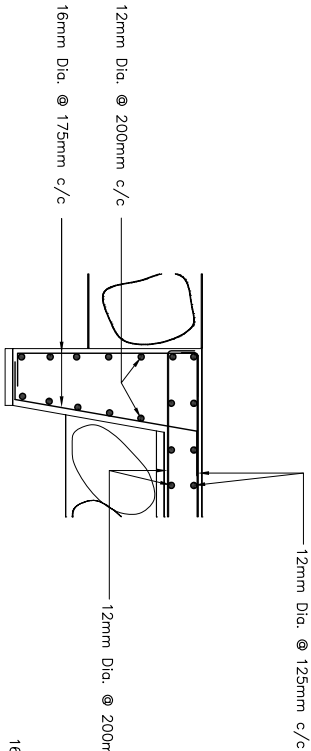
SCALE : 1 : 100

12mm Dia. @ 125mm c/c



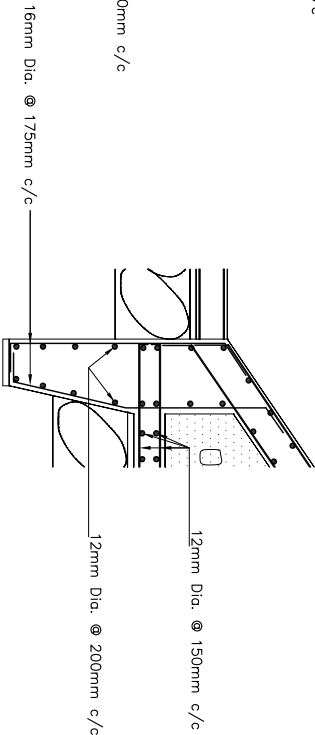
PROFILE OF WEIR PORTION

SCALE : 1 : 200



DETAIL A

SCALE : 1 : 100

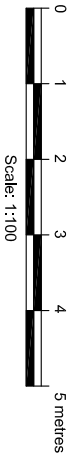


DETAIL B

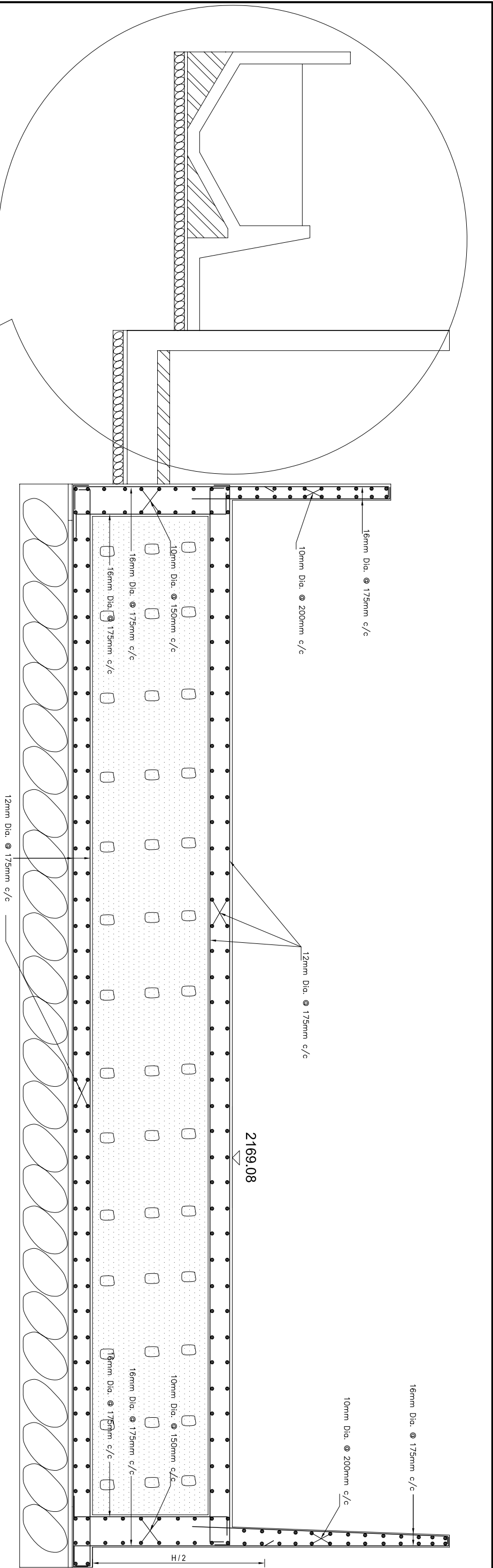
SCALE : 1 : 100

NOTES:

- All dimensions are in m, unless otherwise stated.
- SBC has been assumed as 150 KN/m².
- Grade of Concrete is M20 for all structural works.
- Minimum Development length is equal to 60 x dia. of bar and Minimum Lap length of bar is equal to its development length.
- Grade of Steel is Fe500.
- Clear cover for base slab is 50mm and 40mm for inner walls, outer walls, top slab.
- Expansion joint is provided at 11m c/c unless otherwise mentioned.
- Structural drawings are to be read in conjunction with G.A., EM & HM drawings.

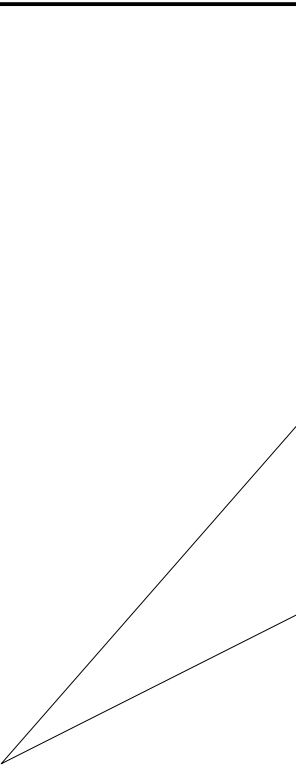


Rev.	Amendment	By	Ckd.	Rec.	App.
Rakumel Santhi Smriti Ganini Jalbhut Cooperative Ltd.					
SANTERUTTARGANGA MINI HYDROPOWER PROJECT		Designed:	Nome		
		Drawn:	M. Bista		
		Checked:	A.K. Mahajan		
		Recommended:			
		Approved:			
HEADWORKS WEIR AND UNDERSLUICE SECTIONS SHEET 1 OF 3					
Alternative Energy Promotion Centre (AEPIC) South Asia Sub-regional Economic Cooperation - Power Expansion Project (SASECOAB) Kumailu, Lalitpur, Nepal Tel: +9771-5539390, 5539391 Email: sasec@aec.gov.np		Date:	March 2019	Scale	AS SHOWN
		Drawing No.	SUMHP/DED-SS-01		Revision



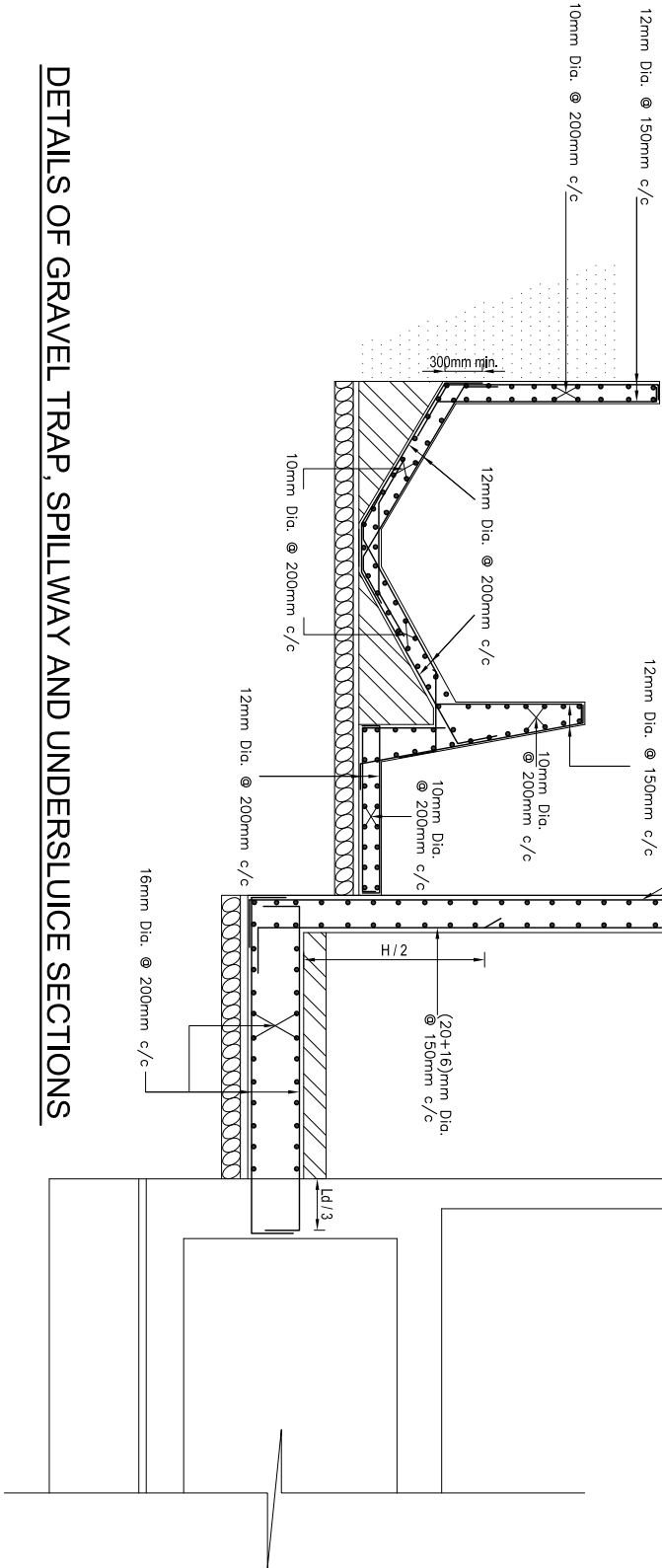
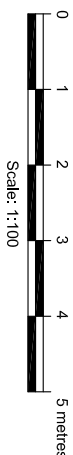
SECTION AT A-A

SCALE : 1 : 100



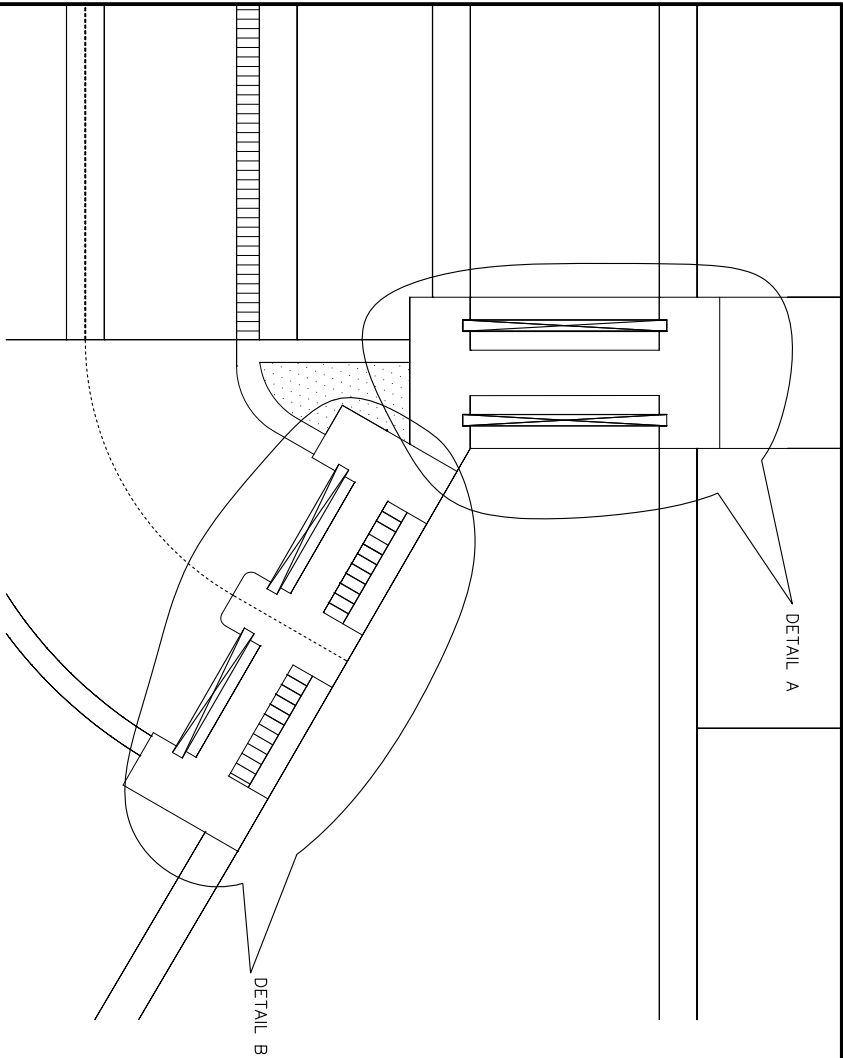
NOTES:

- All dimensions are in m, unless otherwise stated.
- SBC has been assumed as 150 KJ/m².
- Grade of Concrete is M20 for all Structural works.
- Minimum Development length is equal to 60 x dia. of bar and Minimum Lap length of bar is equal to the development length.
- Grade of Steel is Fe500.
- Clear cover for base slab is 50mm and 40mm for inner walls, outer walls, top slab.
- Expansion joint is provided at 11m c/c unless otherwise mentioned.
- Structural drawings are to be read in conjunction with G.A., EM & HM drawings.



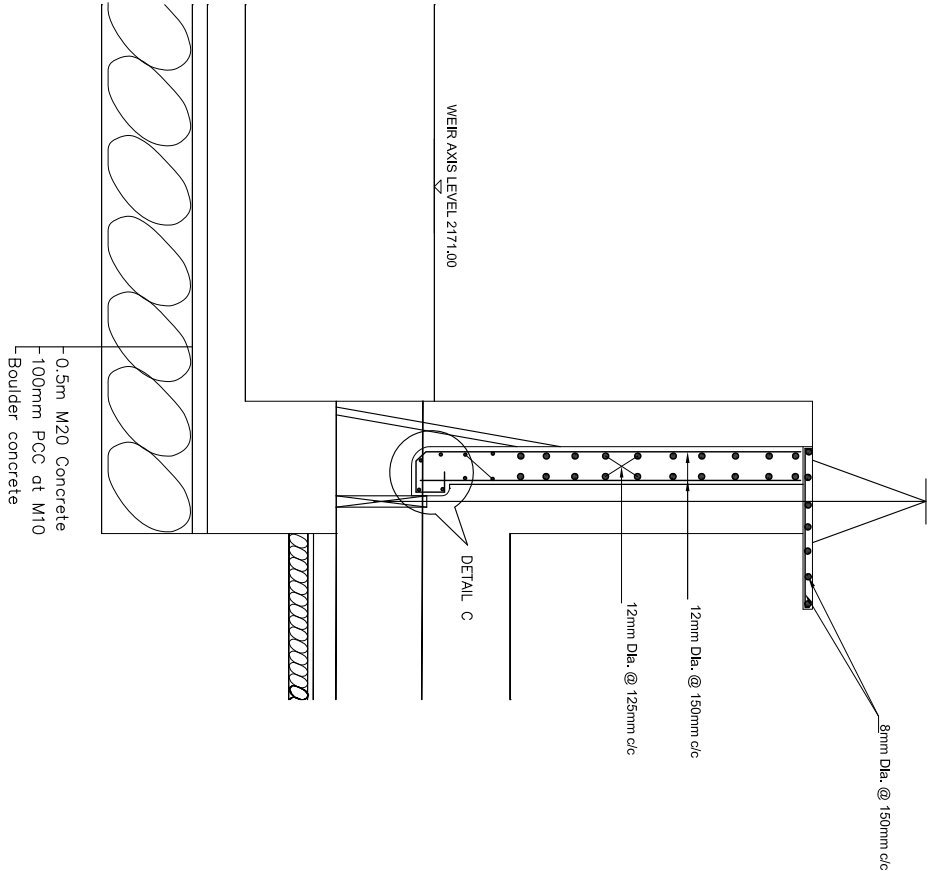
DETAILS OF GRAVEL TRAP, SPILLWAY AND UNDERSLUICE SECTIONS

Rev.	Amendment	By	Ckd.	Rec.	App.
Rakumel Santh Smriti Gamini Jalbhini Cooperative Ltd.		Nome	Initials		Date
SANWERI UTTARGANGA MINI HYDROPOWER PROJECT		Drawn:	A.K. Mahajan		
HEADWORKS		Checked:			
WEIR AND UNDERSLUICE SECTIONS		Recommended:			
SHEET 2 OF 3		Approved:			
Alternative Energy Promotion Centre (AEPIC) South Asia Sub-regional Economic Cooperation - Power Kumailur, Lullupur, Nepal Tel: +9771-5539390, 5539391 Email: saepc@aec.gov.np		Date:	Mar 2019	Scale	AS SHOWN
		Drawing No.	SUMHP/DED-SS-02		Revision



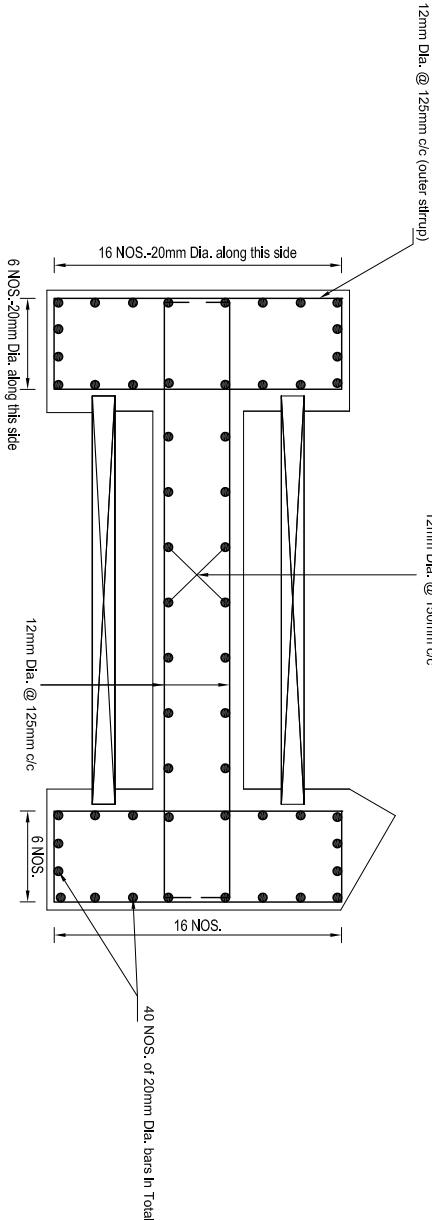
INTAKE & UNDERSLUICE GATE: PLAN

SCALE : 1 : 100



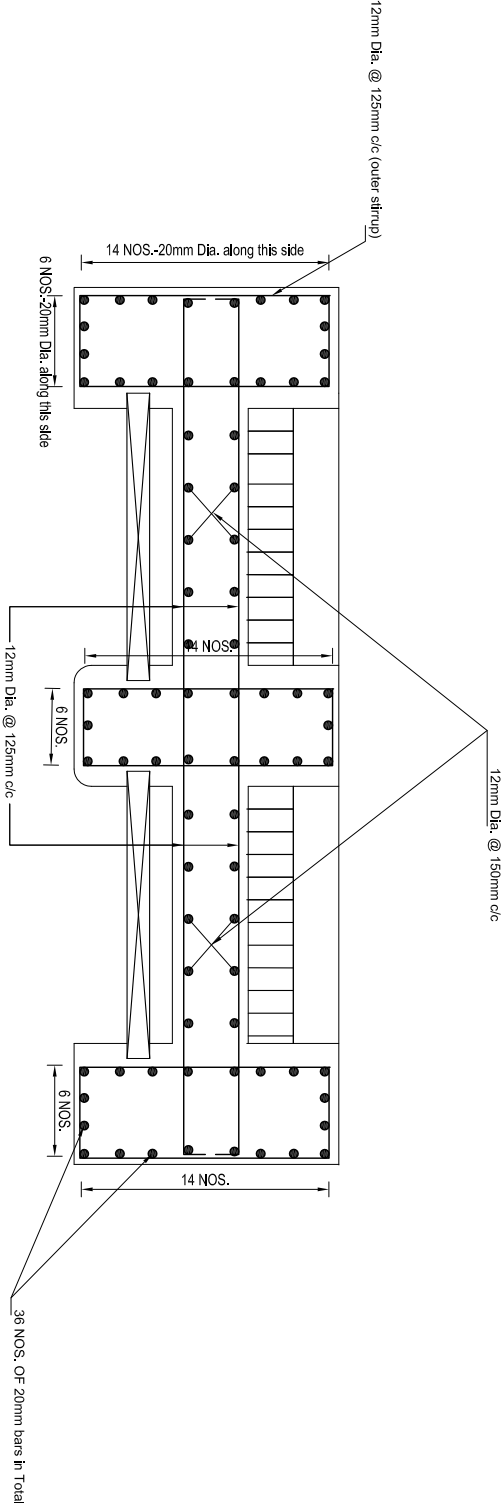
INTAKE: SECTION

SCALE : 1 : 100



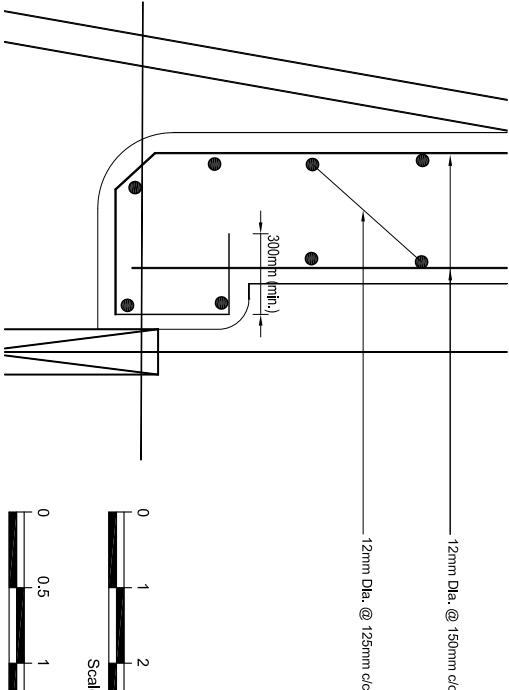
DETAIL AT A

SCALE 1 : 50



DETAIL AT B

SCALE 1 : 50



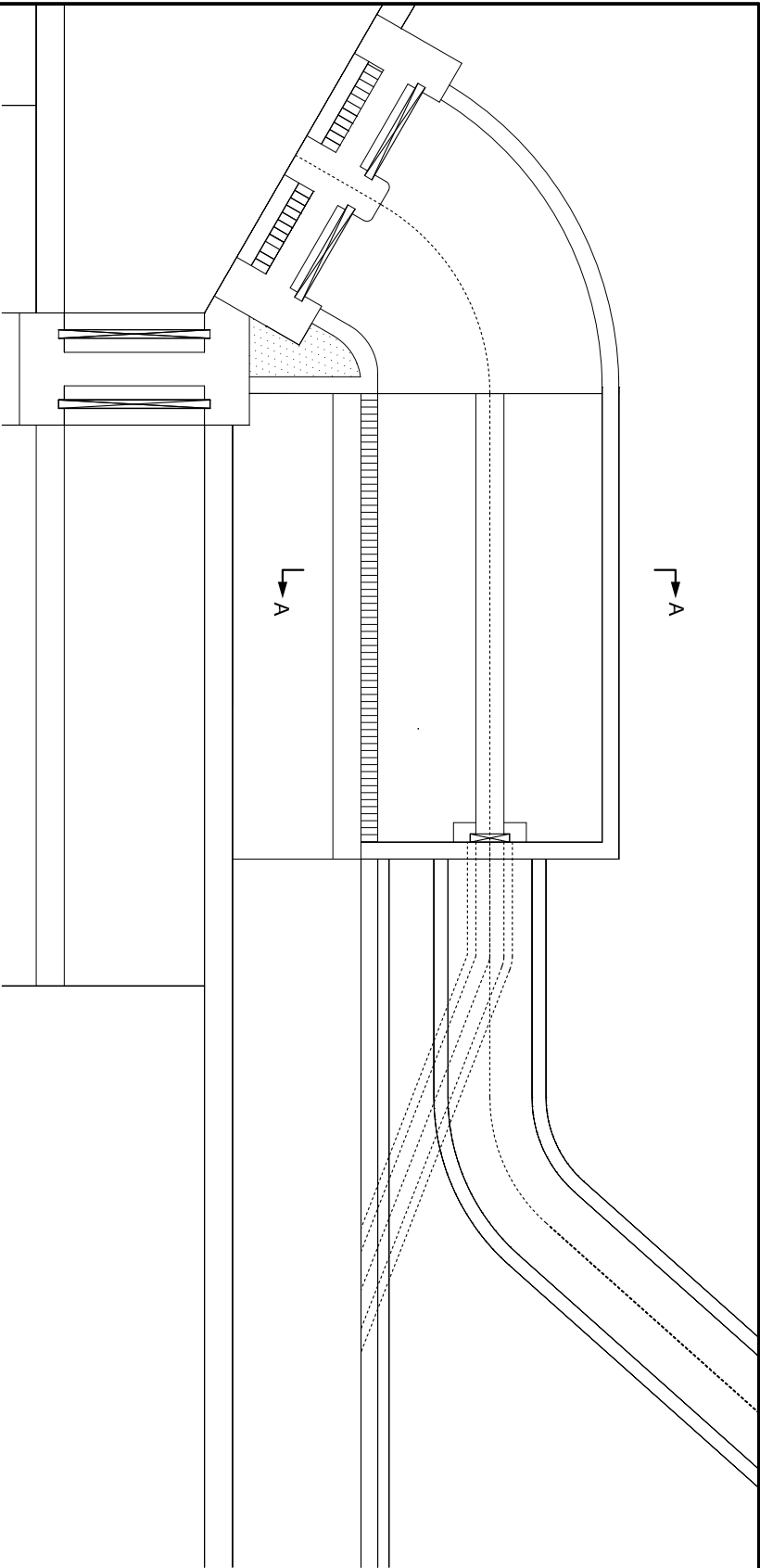
DETAIL AT C

SCALE 1 : 25

NOTES:

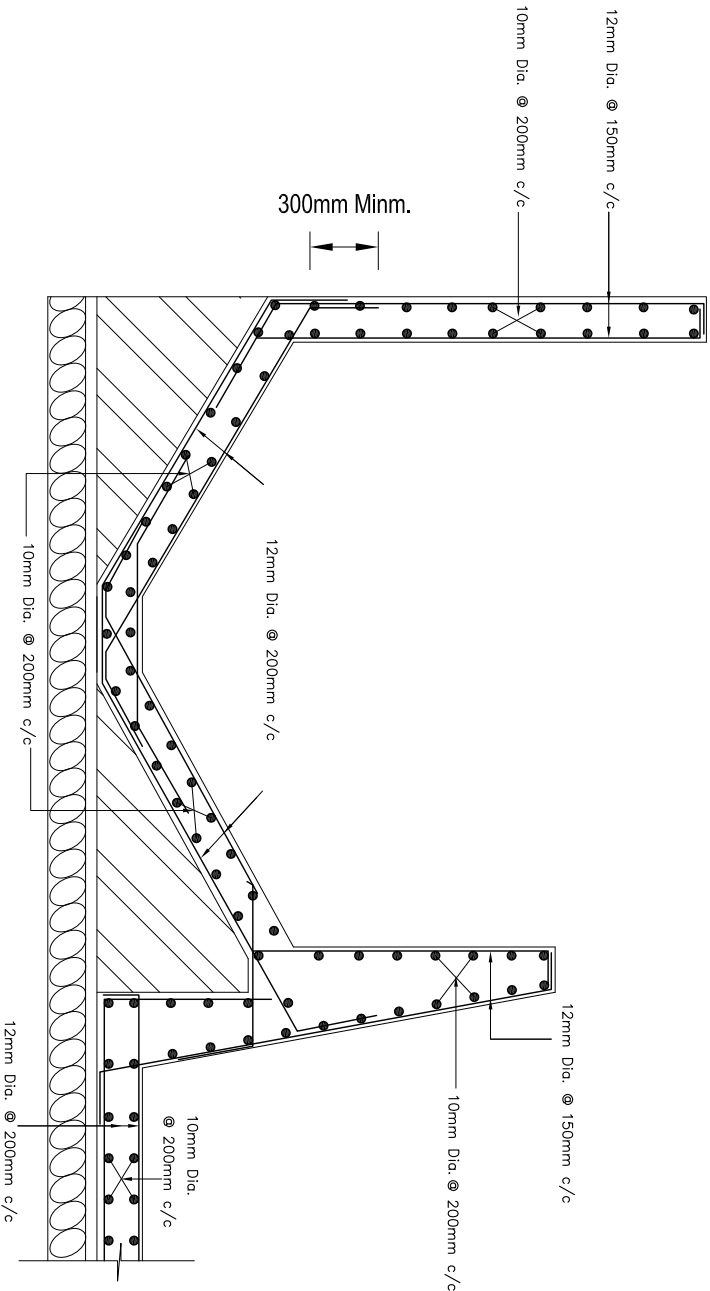
1. All dimensions are in m, unless otherwise stated.
2. SPC has been assumed as 150 KN/m².
3. Grade of Concrete is M20 for all Structural works.
4. Minimum Development length is equal to 60 x dia. of bar and Minimum Lap length of bar is equal to its development length.
5. Grade of Steel is Fe500.
6. Clear cover for base slab is 50mm and 40mm for inner walls, outer walls, top slab.
7. Expansion joint is provided at 11m c/c unless otherwise mentioned.
8. Structural drawings are to be read in conjunction with G.A., EM & HM drawings.

Rev.	Amendment	By	Ckd.	Rec.	App.
Rakumel Sanid Smriti Gamit, Jalbhut Cooperative Ltd.		Name	Initials	Date	
SANIVERI UTTARGANGA MINI HYDROPOWER PROJECT		Designed: M. Bisla	Drawn: A.K. Mahajan		
HEADWORKS INTAKE AND UNDERSLUICE GATE PLAN AND SECTION SHEET 1 OF 1		Checked:	Recommended:		
		Approved:			
		Alternative Energy Promotion Centre (AEPCC) South Asia Sub-regional Economic Cooperation - Power Expansion Project (SASECOAB) Kumhar, Lalpur, Nepal Tel: +9771-5539350, 5539351 email: sasec@aecpc.gov.np			
Date: Mar 2019		Scale AS SHOWN			
Drawing No. SUMHP/DED-10S-01		Revision			



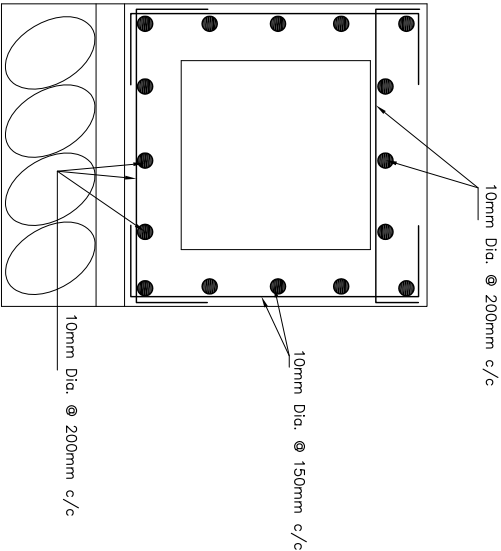
GRAVEL TRAP : PLAN

SCALE 1 : 125



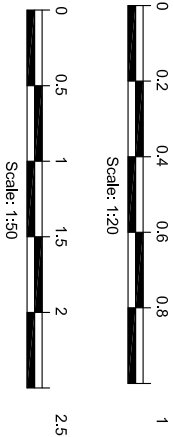
SECTION AT A-A

SCALE : 1 : 50



FLUSHING CULVERT SECTION

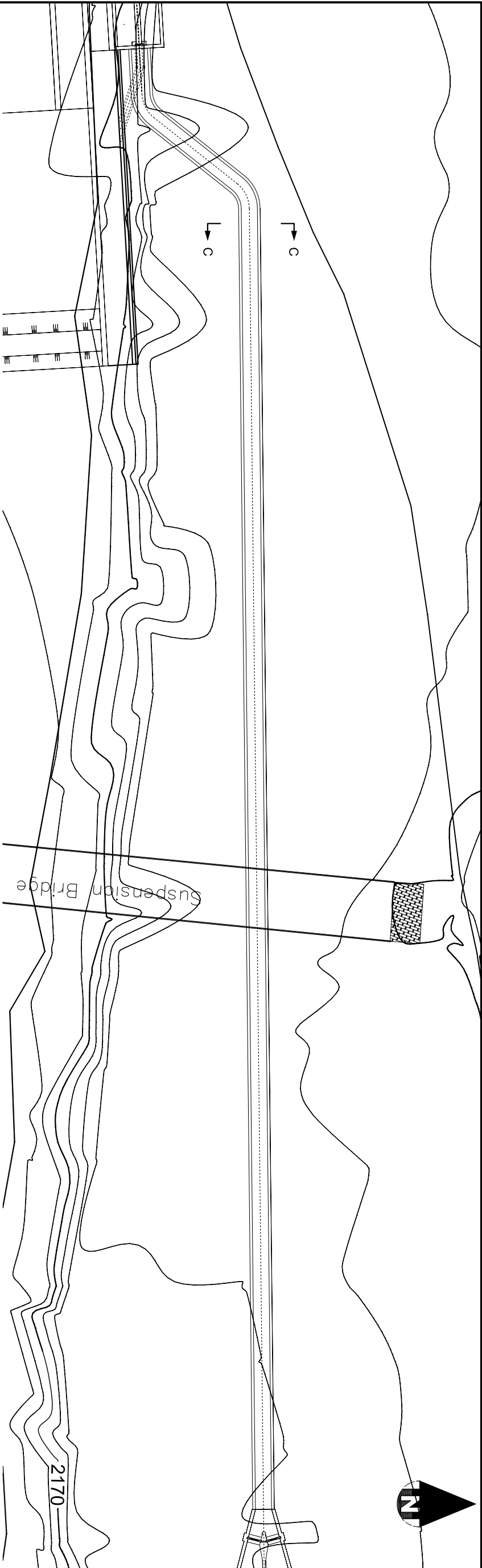
SCALE : 1 : 20



NOTES:

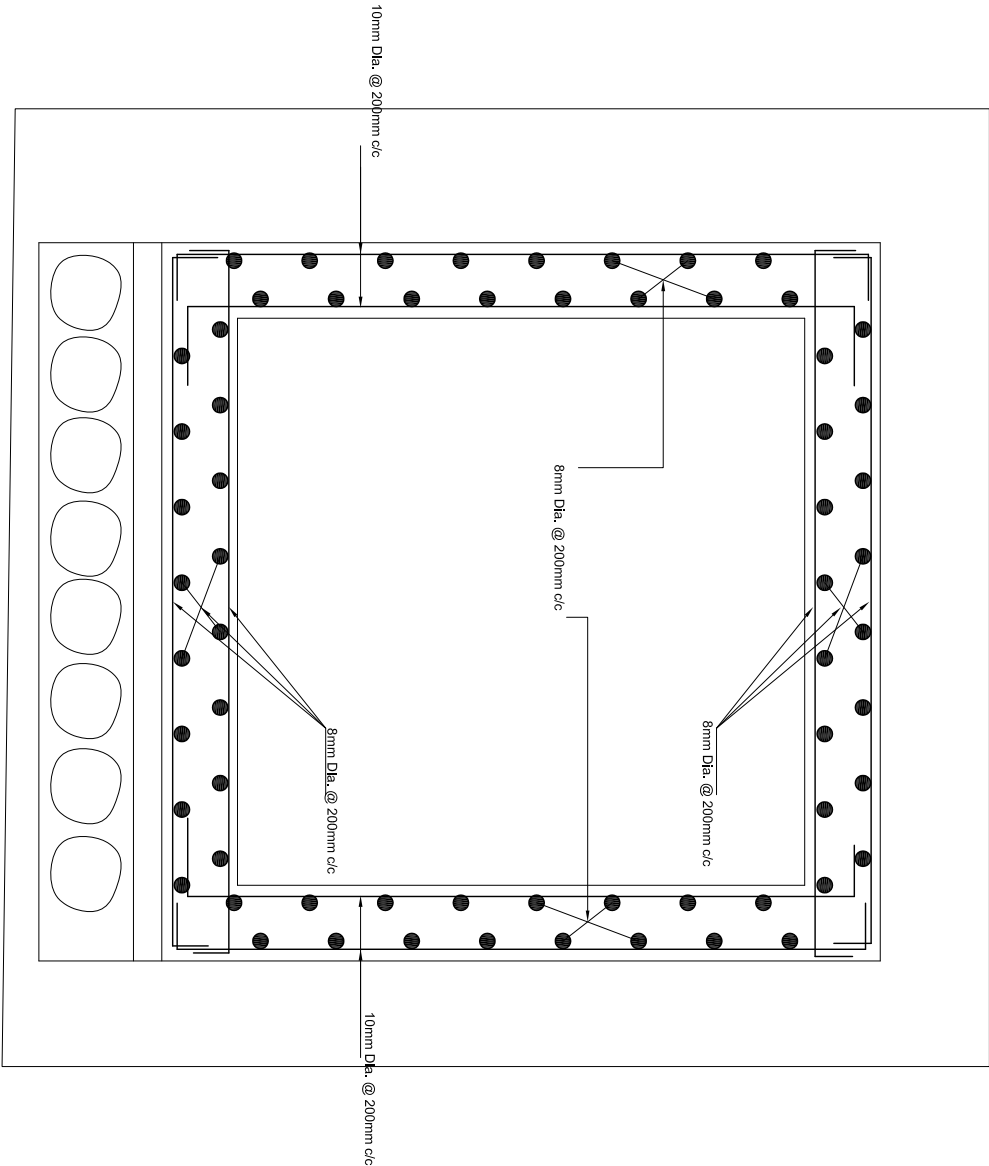
- All dimensions are in m, unless otherwise stated.
- SBC has been assumed as 150 KN/m².
- Grade of Concrete is M20 for all Structural works.
- Minimum Development length is equal to 60 x dia. of bar and Minimum Lap length of bar is equal to its development length.
- Grade of Steel is Fe500.
- Clear cover for base slab is 50mm and 40mm for inner walls, outer walls, top slab.
- Expansion joints are provided at 11m c/c unless otherwise mentioned.
- Structural drawings are to be read in conjunction with G.A., E.M & H.M drawings.

Rev.	Amendment	By	Ckd.	Rec.	App.
Rakumeti Santhi Smriti Ganini Jalbhut Cooperative Ltd.					
SANWERI UTTARGANGA MINI HYDROPOWER PROJECT		Designed:	Nome	Initials	Date
		Drawn:	M.Bisla		
		Checked:	A.K. Mahajan		
		Recommended:			
		Approved:			
HEADWORKS					
GRAVEL TRAP					
PLAN AND SECTION					
SHEET 1 OF 1					
Alternative Energy Promotion Centre (AEPCC)		Date:		Scale	
South Asia Sub-regional Economic Cooperation - Power		Mar 2019		AS SHOWN	
Expansion Project (SASECOAB)					
Khumdhar, Lullpur, Nepal		Drawing No.	SUWH/PI/DED-15S-01		Revision
Tel: +9771-5539390, 5539391					
Email: sasec@aecrc.gov.np					



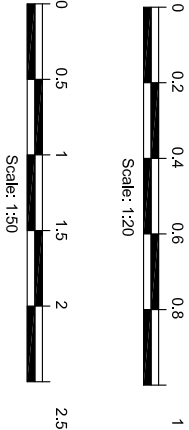
APPROACH CANAL: PLAN

SCALE : 1 : 400



SECTION AT C-C

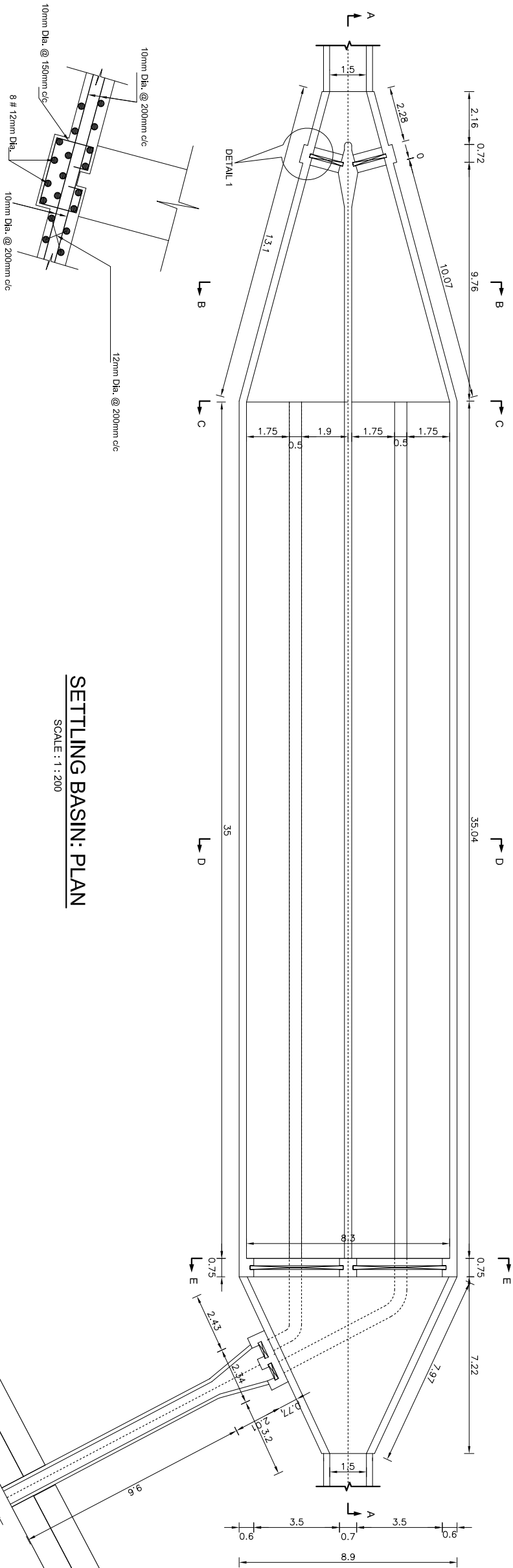
SCALE : 1 : 20



NOTES:

1. All dimensions are in m, unless otherwise stated.
2. SPC has been assumed as 150 K/M².
3. Grade of Concrete is M20 for all Structural works.
4. Minimum Development length is equal to 60 x dia. of bar and Minimum Lap length of bar is equal to its development length.
5. Grade of Steel is Fe500.
6. Clear cover for base slab is 50mm and 40mm for inner walls, outer walls, top slab.
7. Expansion joint is provided at 11m c/c unless otherwise mentioned.
8. Structural drawings are to be read in conjunction with G.A., EM & HM drawings.

Rev.	Amendment	By	Ckd.	Rec.	App.
Rakumel Santh Smriti Ganth Jalbhut Cooperative Ltd.					
SANWERI UTTARGANGA MINI HYDROPOWER PROJECT		Designed:	M. Bisla	Initials	Date
		Drawn:	A.K. Mahajan		
HEADWORKS		Checked:			
APPROACH CANAL		Recommended:			
PLAN AND SECTION		Approved:			
SHEET 1 OF 1					
Alternative Energy Promotion Centre (AEPCC)		Date:	Mar 2019	Scale	AS SHOWN
South Asia Sub-regional Economic Cooperation - Power					
Expansion Project (SASEC/ADB)		Drawing No.	SUWH/PI/DED-20S-01		Revision
Khumbar, Lalpur, Nepal					
Tel: +9771-5539390, 5539391					
Email: sasec@aecpc.gov.np					



SETTLING BASIN: PLAN

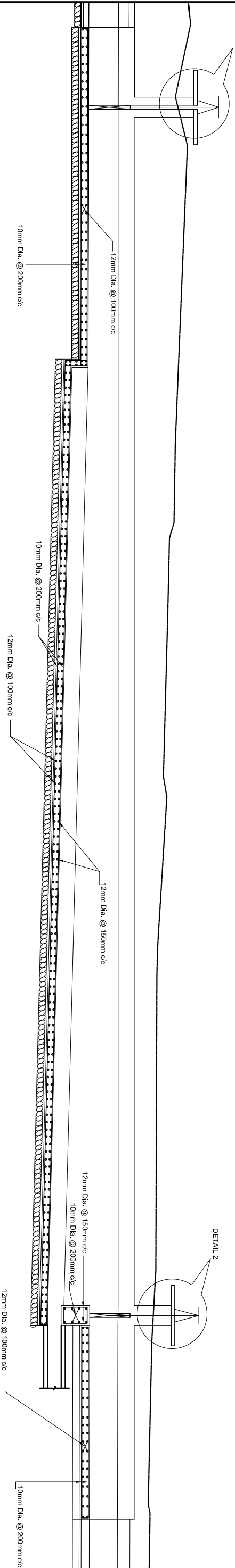
SCALE : 1 : 200

DETAIL 1

SCALE : 1 : 50

DETAIL 2

DETAIL 2

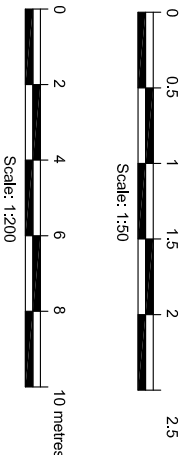
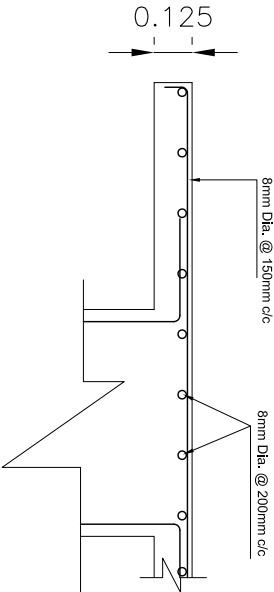


SECTION AT A-A

SCALE : 1 : 200

NOTES:

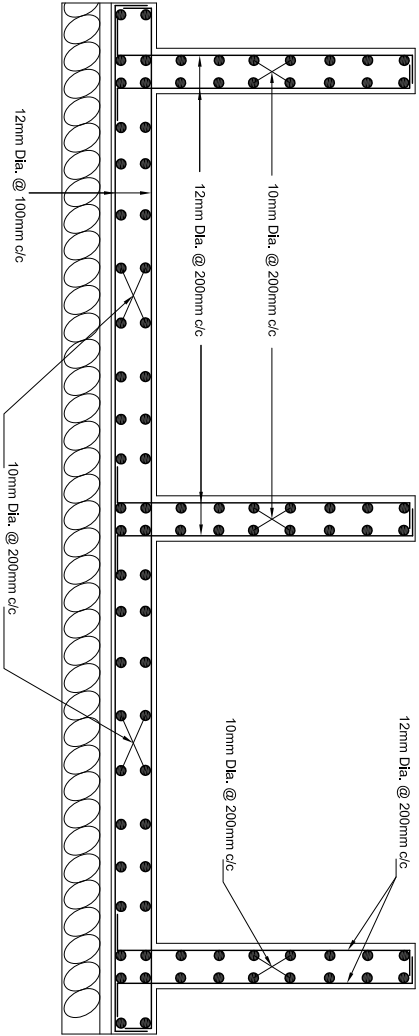
- All dimensions are in m, unless otherwise stated.
- SBC has been assumed as 150 K/lin2.
- Grade of Concrete is M20 for all Structural works.
- Minimum Development length is equal to 60 x dia. of bar and Minimum Lap length of bar is equal to its development length.
- Grade of Steel is Fe500.
- Clear cover for base slab is 50mm and 40mm for inner walls, outer walls, top slab.
- Expansion joint is provided at 11m c/c unless otherwise mentioned.
- Structural drawings are to be read in conjunction with G.A., EM & HM drawings.



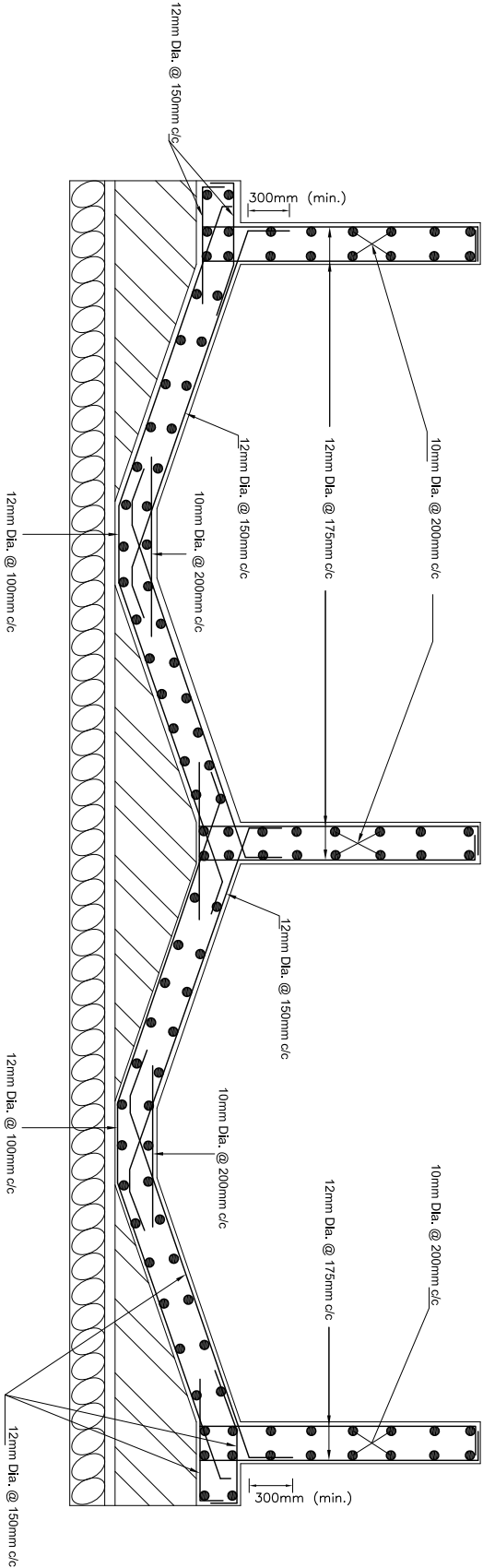
DETAIL "2"

SCALE : 1 : 100

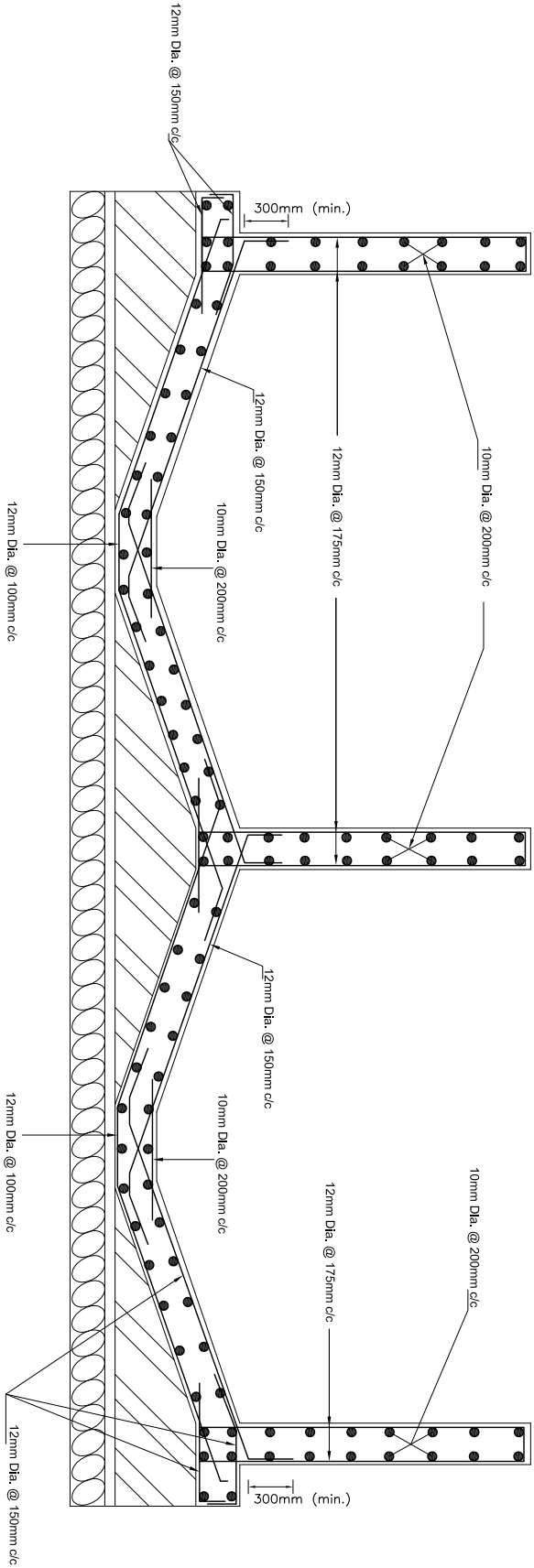
Rev.	Amendment	By	Ckd.	Rec.	App.
Rakumet Santhi Smriti Ganith, Jalbhut Cooperative Ltd.					
SANWERI UTTARGANGA MINI HYDROPOWER PROJECT		Designed:	M. Bisla	Initials	Date
		Drawn:	A.K. Mahajan		
		Checked:			
		Recommended:			
		Approved:			
HEADWORKS SETTLING BASIN PLAN AND PROFILE SHEET 1 OF 3		Date:	Mar 2019	Scale	AS SHOWN
Alternative Energy Promotion Centre (AEPCC) South Asia Sub-regional Economic Cooperation - Power Kumailur, Lalitpur, Nepal Tel: +9771-5539390, 5539391 Email: saepc@aec.gov.np		Drawing No.	SUWH/PI/DED-25S-01	Revision	



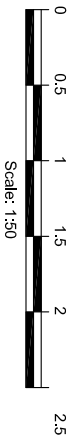
SECTION AT B-B
SCALE : 1 : 50



SECTION AT C-C
SCALE : 1 : 50



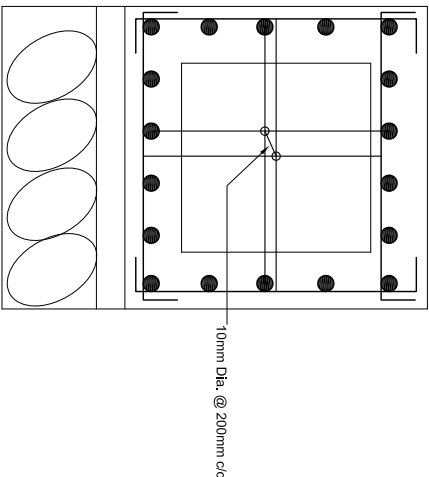
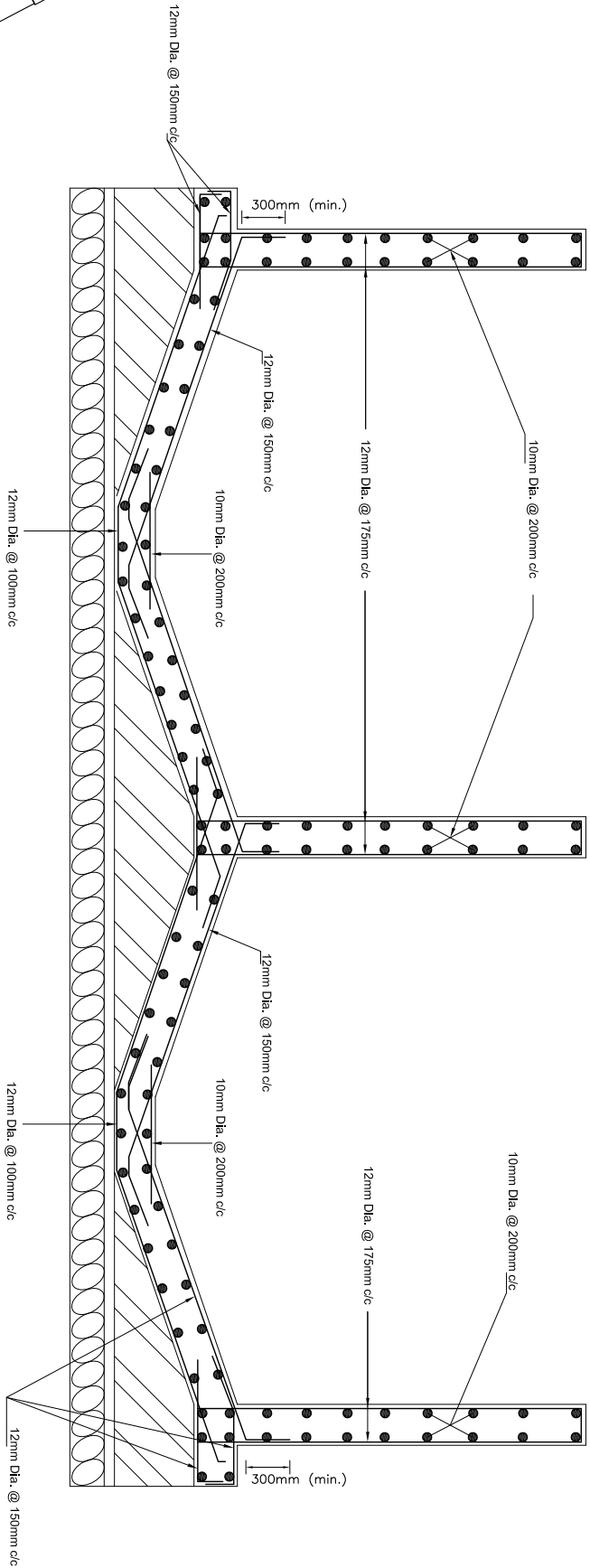
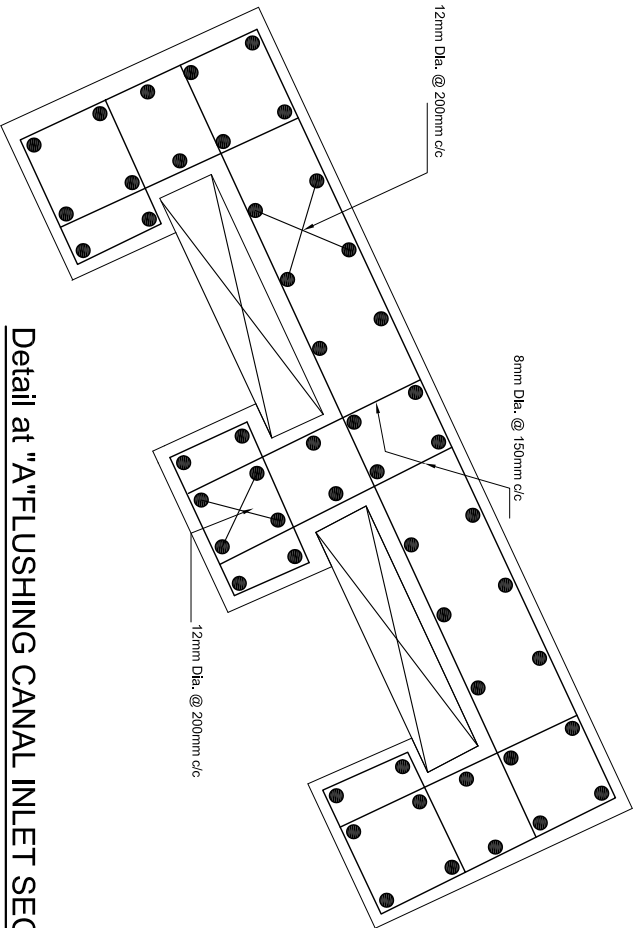
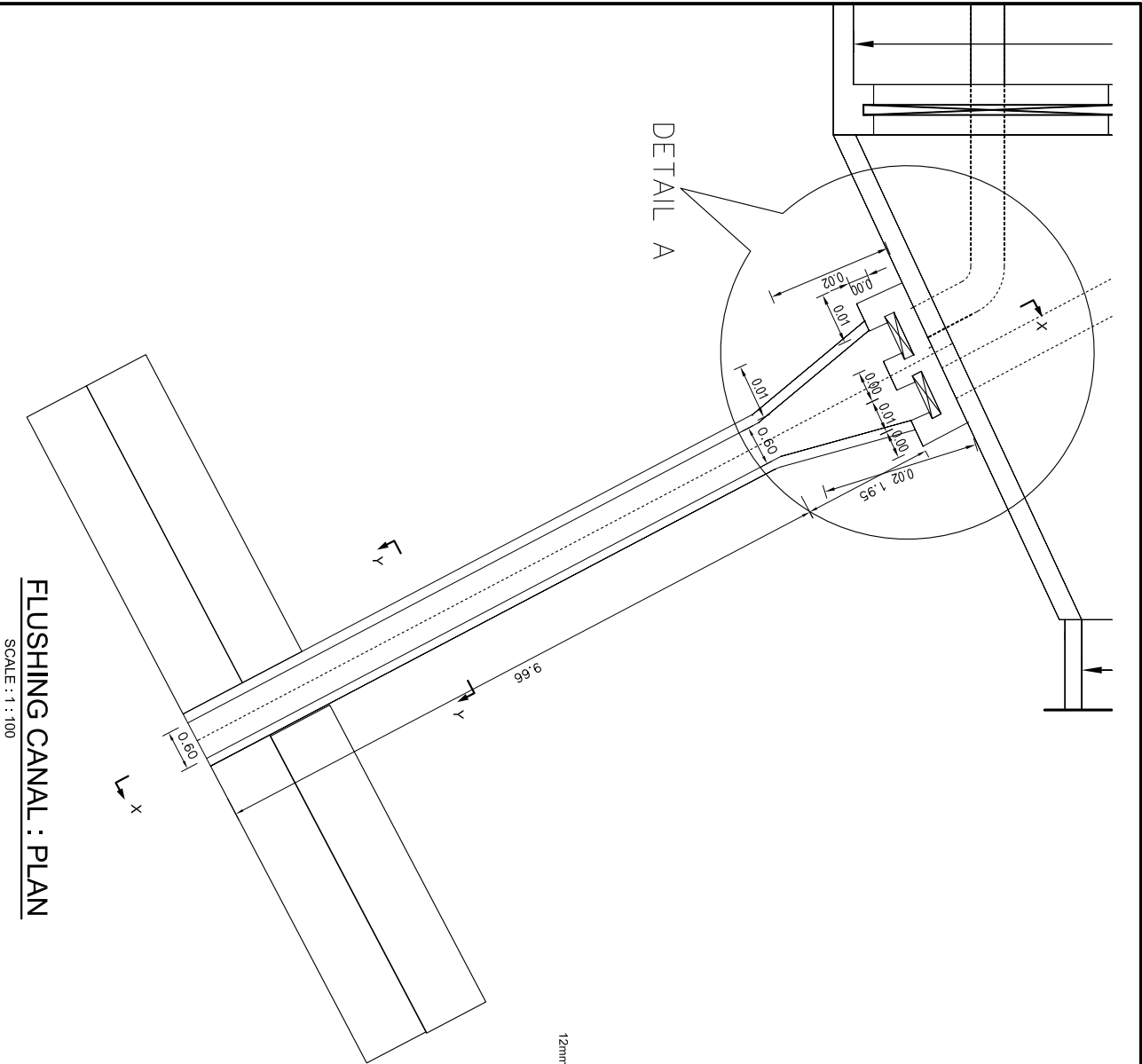
SECTION AT D-D
SCALE : 1 : 50



NOTES:

1. All dimensions are in m, unless otherwise stated.
2. SBC has been assumed as 150 KN/m².
3. Grade of Concrete is M20 for all Structural works.
4. Minimum Development length is equal to 60 x dia. of bar and Minimum Lap length of bar is equal to its development length.
5. Grade of Steel is Fe500.
6. Clear cover for base slab is 50mm and 40mm for inner walls, outer walls, top slab.
7. Expansion joint is provided at 11m c/c unless otherwise mentioned.
8. Structural drawings are to be read in conjunction with G.A., EM & HW drawings.

Rev.	Amendment	By	Ckd.	Rec.	App.
Rakumet Santhi Smriti Ganitha Jalbhini Cooperative Ltd.					
SANWERI UTTARANGA MINI HYDROPOWER PROJECT		Designed:	M.Bisla	Initials	Date
		Drawn:	A.K. Mahajan		
HEADWORKS SETTLING BASIN SECTIONS SHEET 2 OF 3		Checked:			
		Recommended:			
Alternative Energy Promotion Centre (AEPCC) South Asia Sub-regional Economic Cooperation - Power Expansion Project (SASEC/ADB) Kumailur, Lullipur, Nagail Tel: +9771-5539350, 5539351 Email: sasec@aecrc.gov.np		Date:	Mar 2019	Scale	AS SHOWN
		Drawing No.	SUWH/PI/DED-25S-02		Revision



NOTES:

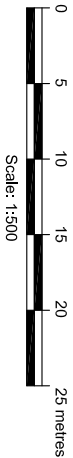
1. All dimensions are in m, unless otherwise stated.
2. SBC has been assumed as 150 KN/m².
3. Grade of Concrete is M20 for all Structural works.
4. Minimum Development length is equal to 60 x dia. of bar and Minimum Lap length of bar is equal to its development length.
5. Grade of Steel is Fe500.
6. Clear cover for base slab is 50mm and 40mm for inner walls, outer walls, top slab.
7. Expansion joint is provided at 11m c/c unless otherwise mentioned.
8. Structural drawings are to be read in conjunction with G.A., EM & HW drawings.

Rev.	Amendment	By	Ckd.	Rec.	App.
Rakumet Santhi Smriti Gamthi Jalbhut Cooperative Ltd.		Norme	Initials	Date	
SANWERI UTTARGANGA MINI HYDROPOWER PROJECT		Drawn:	M.Bisla	A.K. Mahajan	
HEADWORKS SETTLING BASIN PLAN AND SECTION		Checked:		Recommended:	
SHEET 3 OF 3		Approved:			
Alternative Energy Promotion Centre (AEPCC) South Asia Sub-regional Economic Cooperation - Power Expansion Project (SASEC/ADB) Kumailur, Lalpur, Nepal Tel: +9771-5533350, 5533351 Email: sasec@aecpc.org.np		Date:	Mar 2019	Scale	AS SHOWN
		Drawing No.	SUWH/PI/DED-25S-03	Revision	



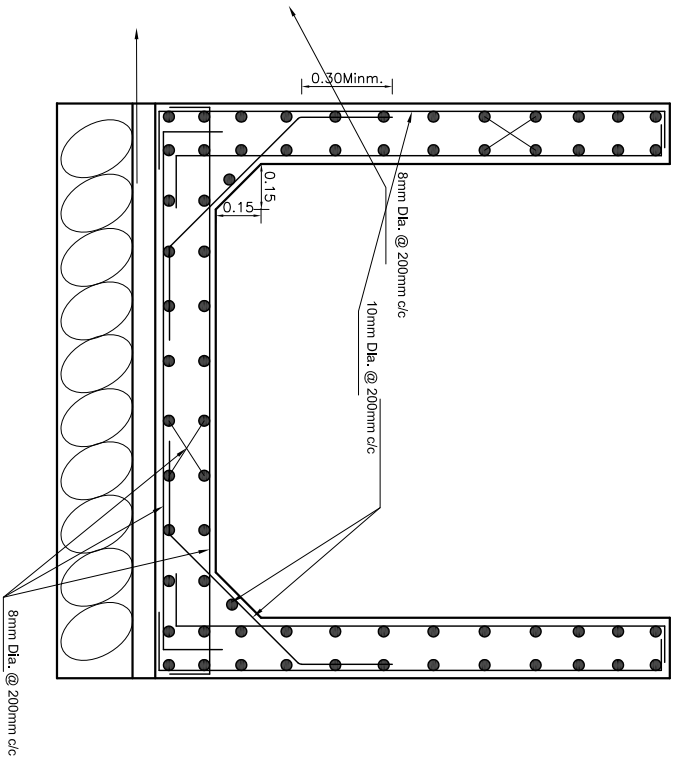
HEADRACE CANAL: PLAN

SCALE : 1 : 500



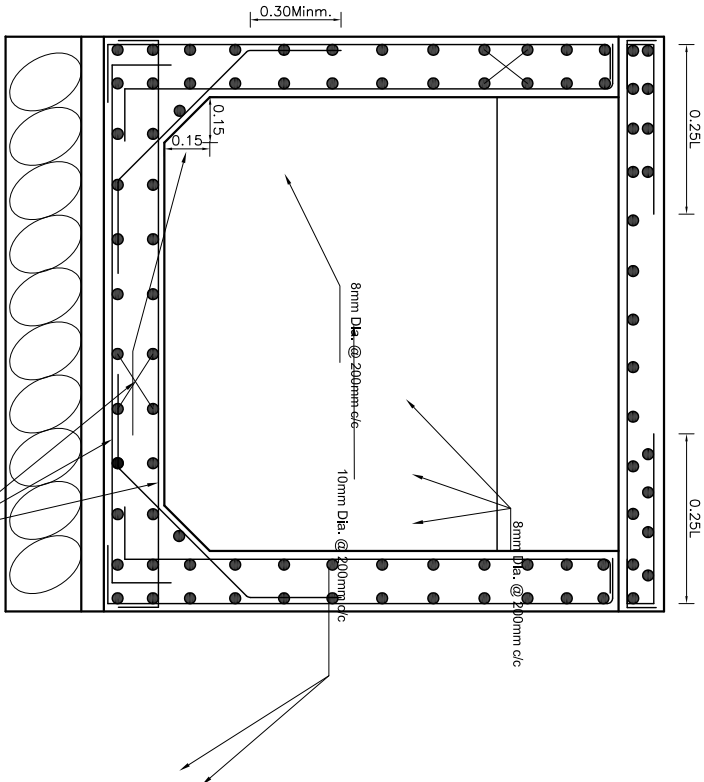
NOTES:

1. All dimensions are in m, unless otherwise stated.
2. SFC has been assumed as 150 KWH/m².
3. Grade of Concrete is M20 for all Structural works.
4. Minimum Development length is equal to 60 x dia. of bar and Minimum Lap length of bar is equal to its development length.
5. Grade of Steel is Fe500.
6. Clear cover for base slab is 50mm and 40mm for inner walls, outer walls, top slab.
7. Expansion joint is provided at 11m c/c unless otherwise mentioned.
8. Structural drawings are to be read in conjunction with G.A., EM & HM drawings.



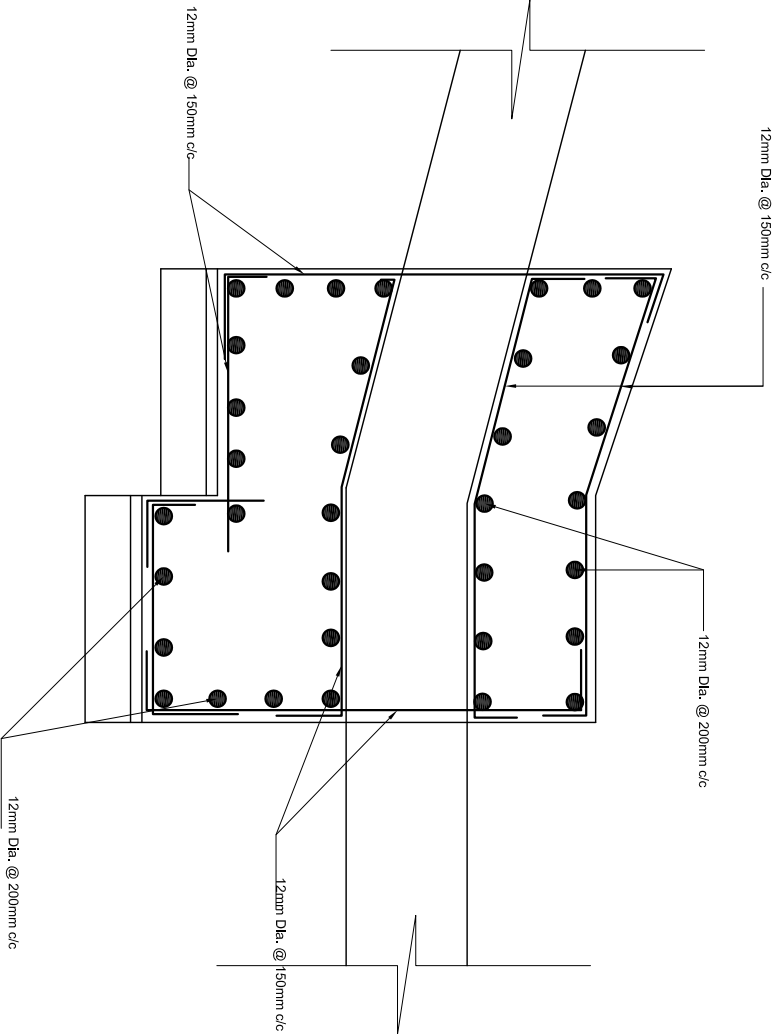
OPEN CANAL SECTION

SCALE : 1 : 50



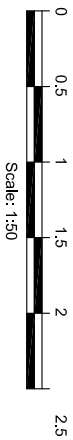
CLOSED CANAL SECTION

SCALE : 1 : 50



TYPICAL ANCHOR BLOCK SECTION

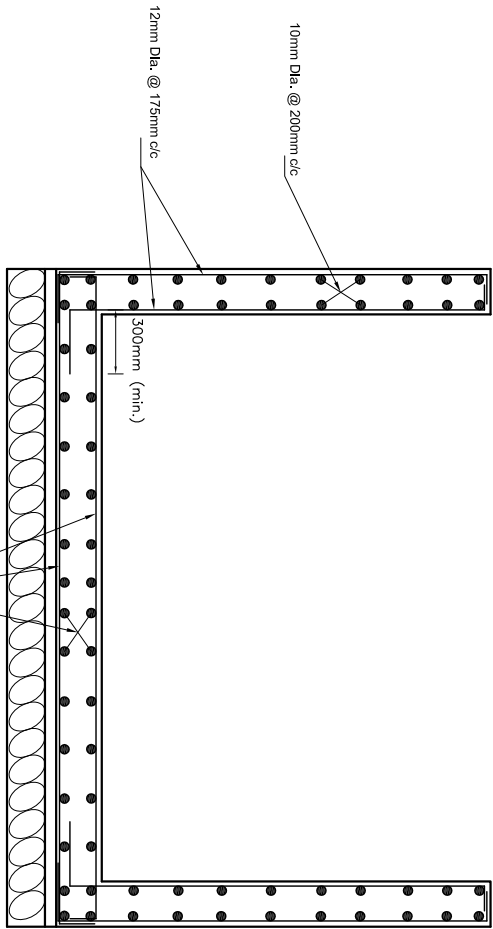
SCALE : 1 : 50



NOTES:

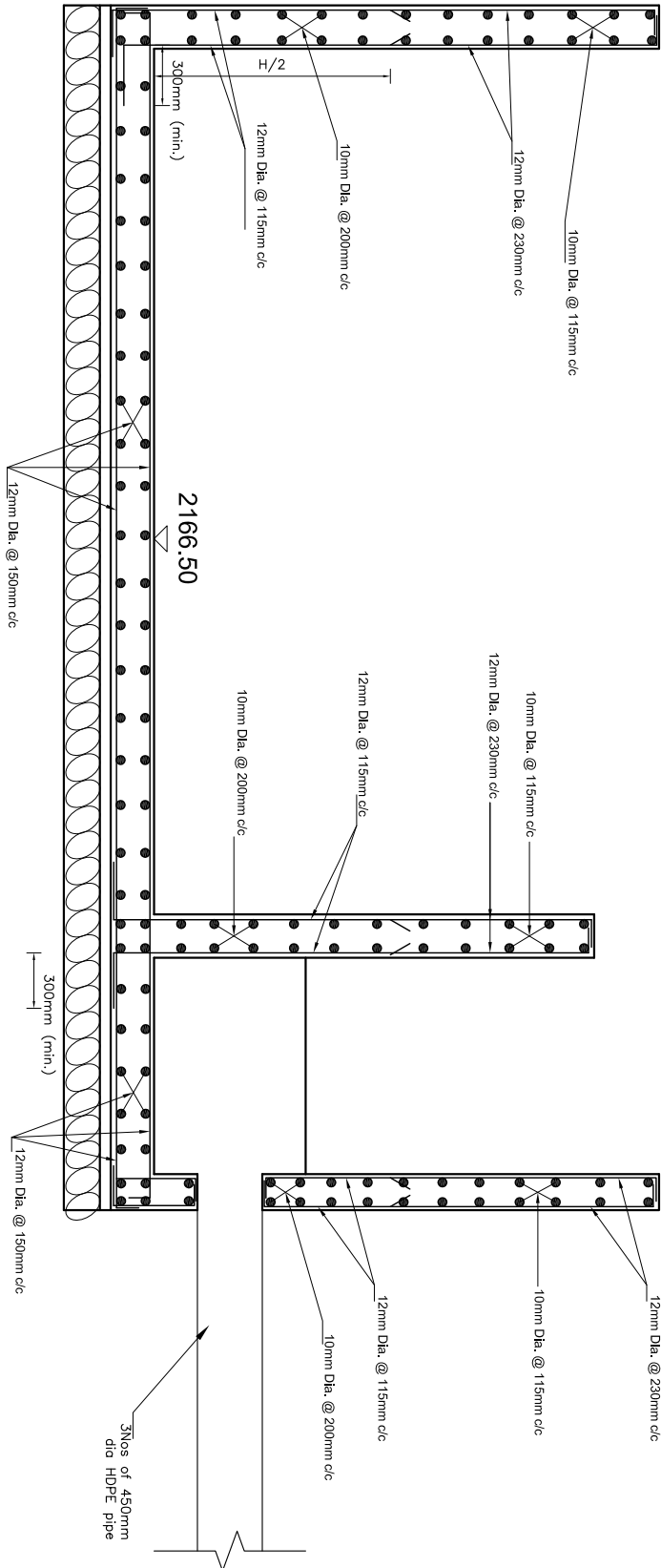
- All dimensions are in m, unless otherwise stated.
- SBC has been assumed as 150 KN/m².
- Grade of Concrete is M20 for all Structural works.
- Minimum Development length is equal to 60 x dba. of bar and Minimum Lap length of bar is equal to its development length.
- Grade of Steel is Fe500.
- Clear cover for base slab is 50mm and 40mm for inner walls, outer walls, top slab.
- Expansion joint is provided at 11m c/c unless otherwise mentioned.
- Structural drawings are to be read in conjunction with G.A., EM & HM drawings.

Rev.	Amendment		By	Ckd.	Rec.	App.
Rakunnei Santhi Smiti Ganin, Jalbhini Cooperative Ltd.						
SANWERI UTTARGANGA MINI HYDROPOWER PROJECT		Designed:	Name		Initials	Date
		Drawn:	M.Bisla			
		Checked:	A.K. Mahajan			
		Recommended:				
		Approved:				
HEADRACE CANAL						
PLAN AND SECTION						
SHEET 2 OF 2						
Alternative Energy Promotion Centre (AEPIC)						
South Asia Sub-regional Economic Cooperation - Power						
Expansion Project (SASEC/ADB)						
Kumhar, Lalpur, Nepal		Date:	Scale			
Tel: +977-5539390, 5539391		Mar 2019	AS SHOWN			
Email: sapic@aecrc.gov.np		Drawing No.			Revision	
		SUWH/PI/DED-30S-02				



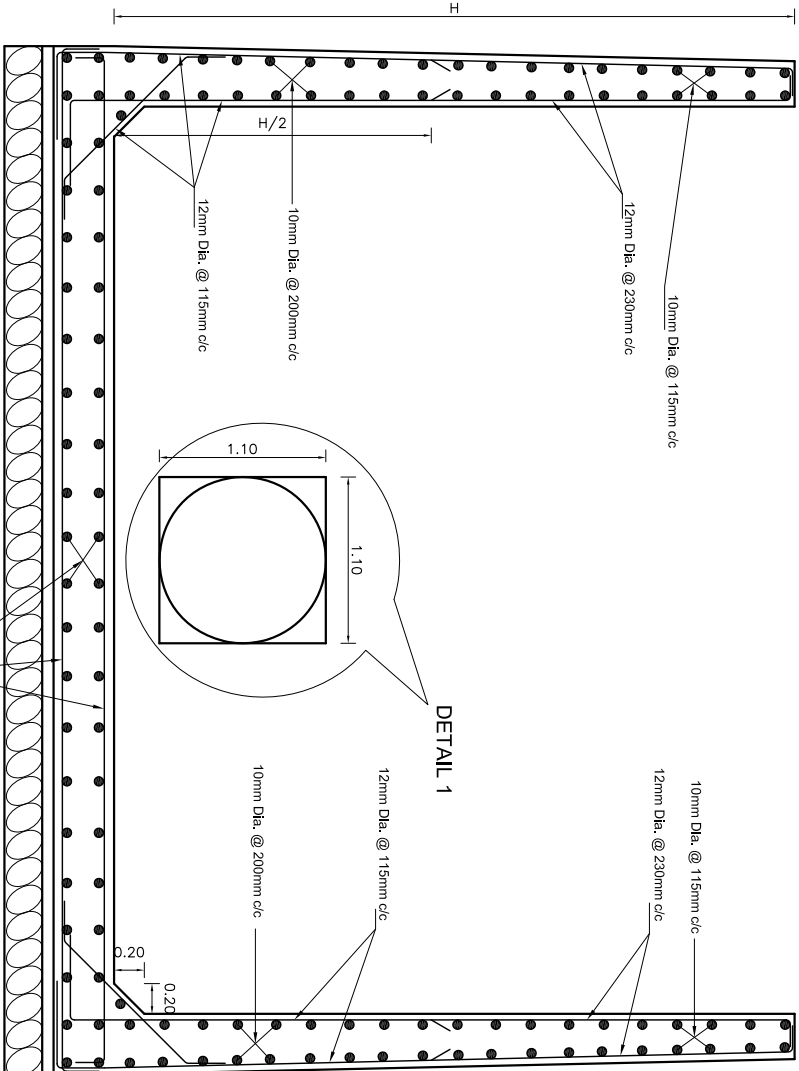
SECTION AT A-A

SCALE : 1 : 50



SECTION AT B-B

SCALE : 1 : 50

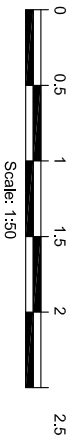


SECTION AT D-D

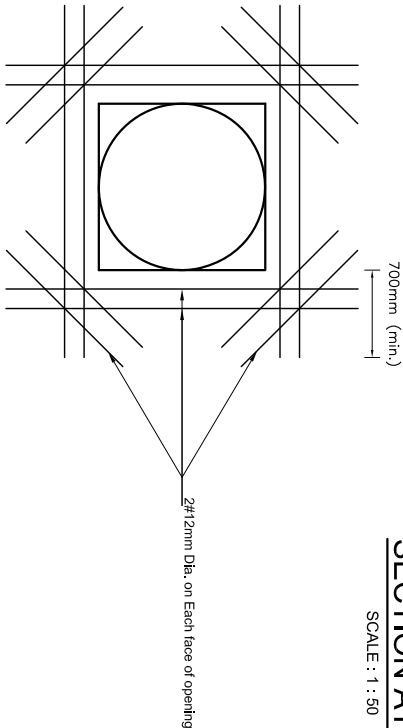
SCALE : 1 : 50

NOTES:

1. All dimensions are in m, unless otherwise stated.
2. SBC has been assumed as 150 KN/m².
3. Grade of Concrete is M20 for all Structural works.
4. Minimum Development length is equal to 60 x dia. of bar and Minimum Lap length of bar is equal to its development length.
5. Grade of Steel is Fe500.
6. Clear cover for base slab is 50mm and 40mm for inner walls, outer walls, top slab.
7. Expansion joint is provided at 11m c/c unless otherwise mentioned.
8. Structural drawings are to be read in conjunction with G.A., EM & HM drawings.

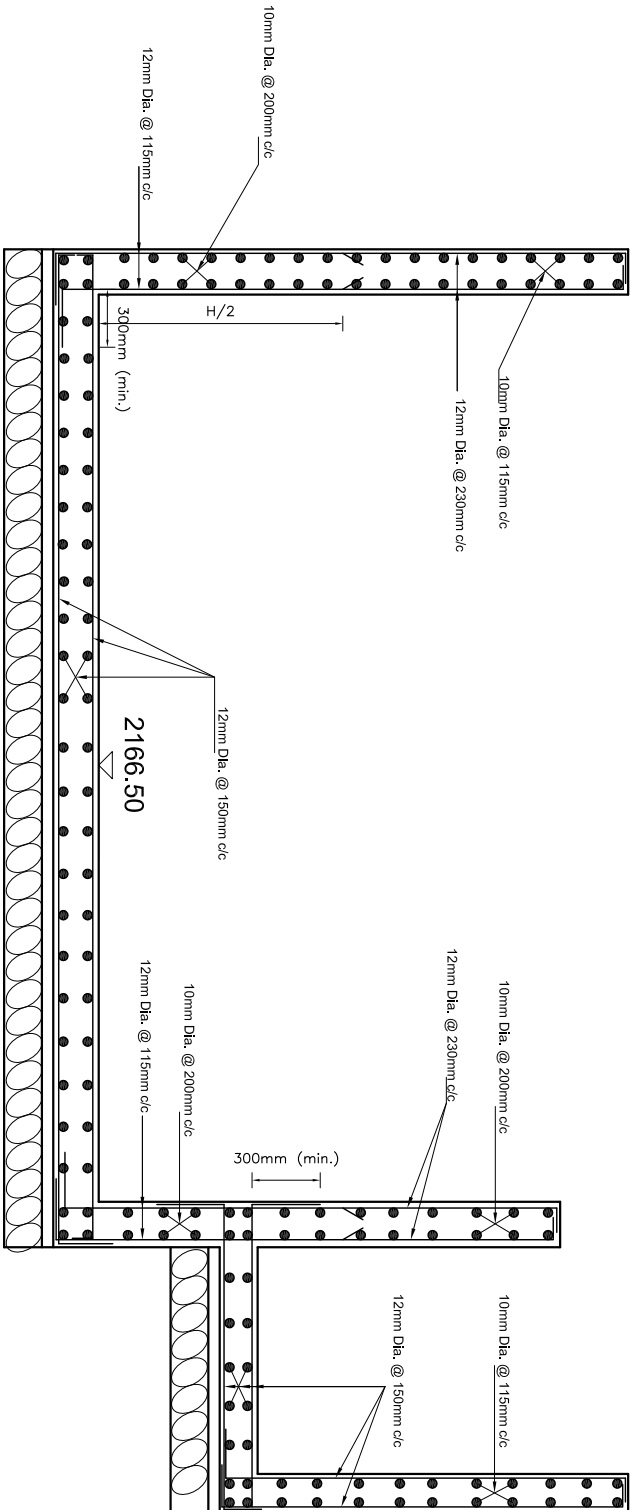


Scale: 1:50

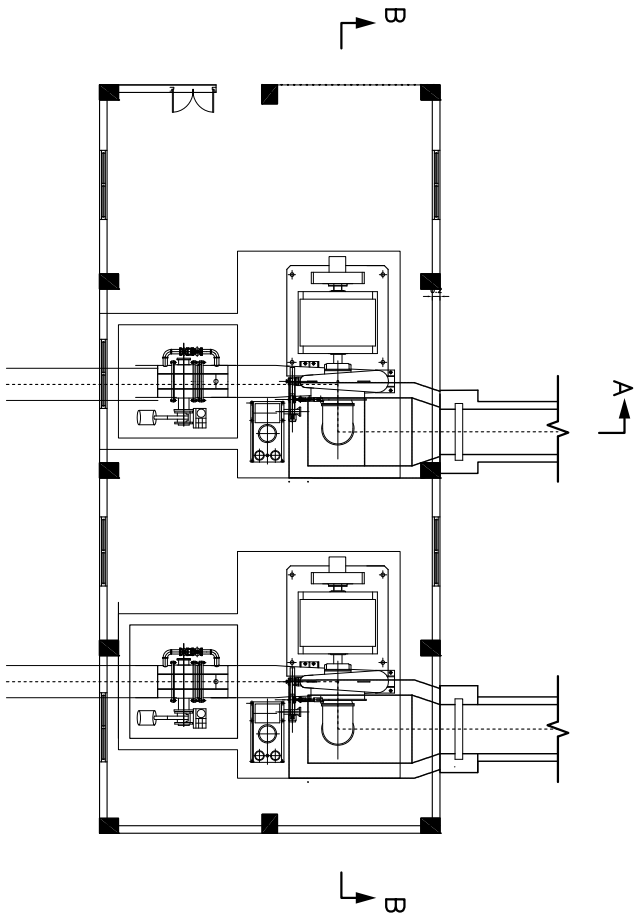


SECTION AT C-C

SCALE : 1 : 50

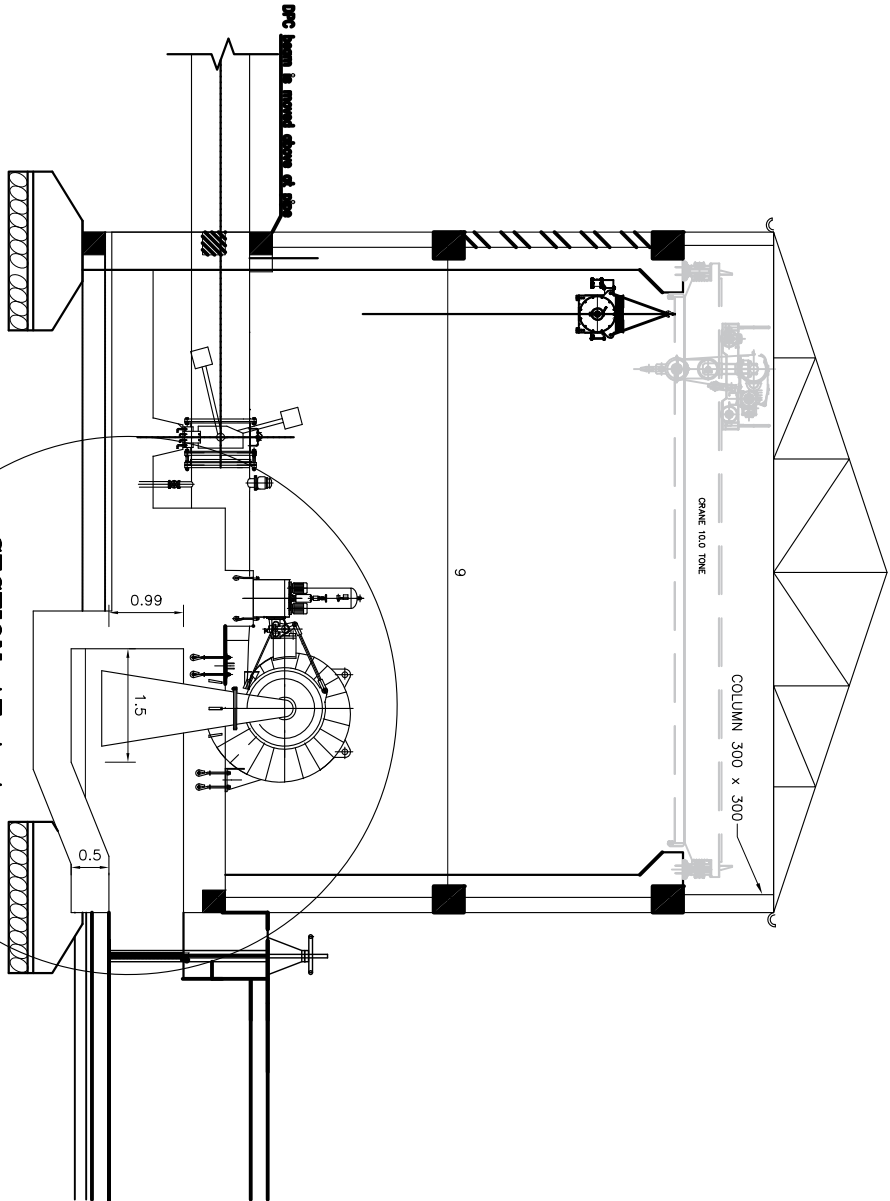
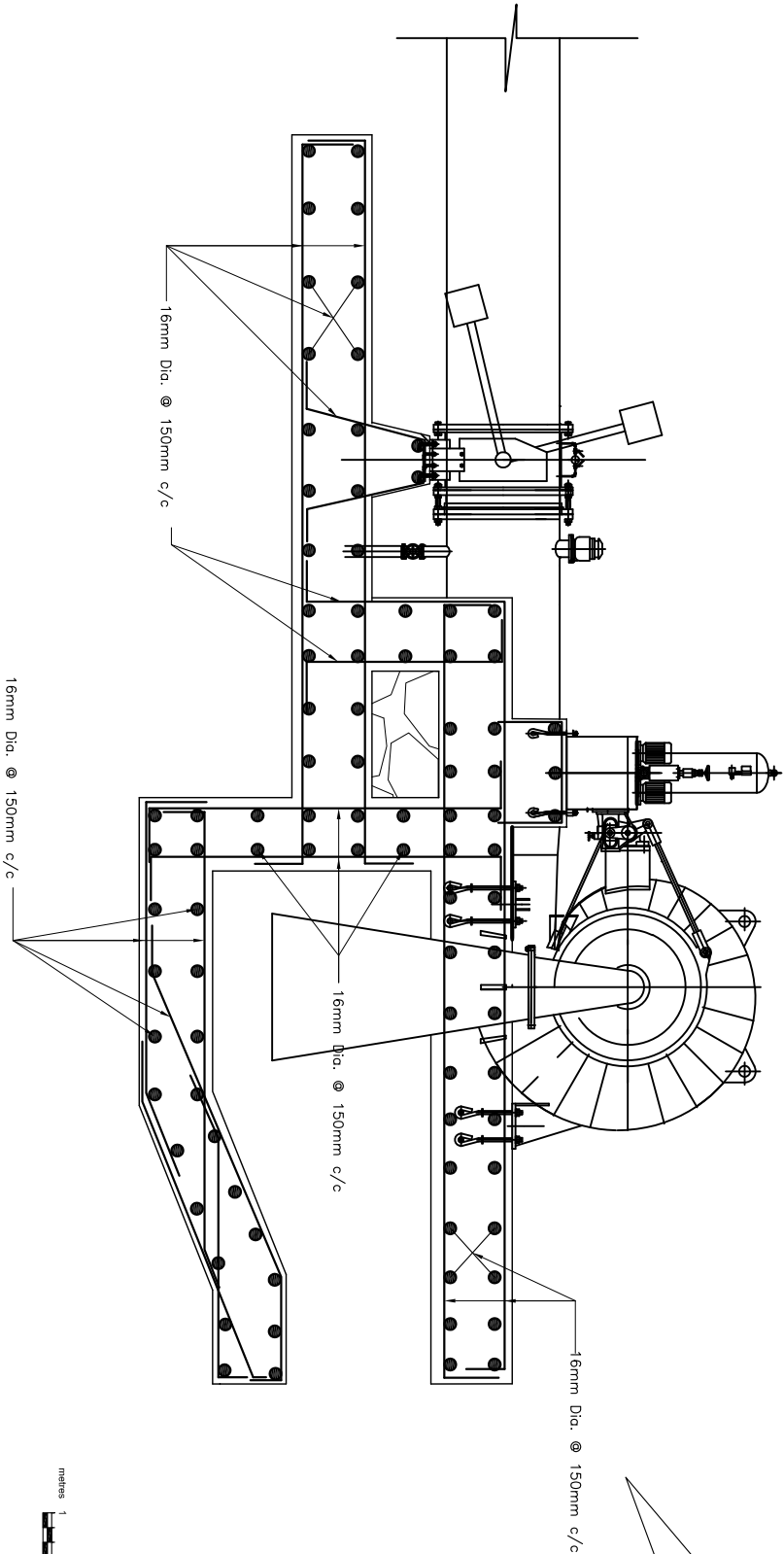


Rev.	Amendment	By	Ckd.	Rec.	App.
Rakumel Santhi Smriti Ganitha Jalbhini Cooperative Ltd.					
SANWIRUUTTARGANGA MINI HYDROPOWER PROJECT		Designed:	M.Bisla	Initials	Date
		Drawn:	A.K. Mahajan		
		Checked:			
		Recommended:			
		Approved:			
FORBAY					
SECTIONS					
SHEET 2 OF 2					
Alternative Energy Promotion Centre (AEPCC)		Date:	Mar 2019	Scale	AS SHOWN
South Asia Sub-regional Economic Cooperation - Power					
Kumailur, Lalpur, Nepal					
Tel: +9771-5539390, 5539391					
Email: sanec@sanec.gov.np					
		Drawing No.	SUWH/PI/DED-35S-02		Revision



KEY PLAN

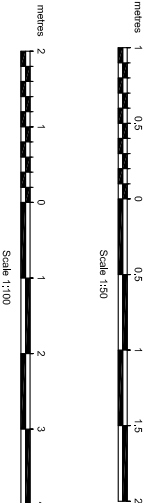
SCALE 1:200

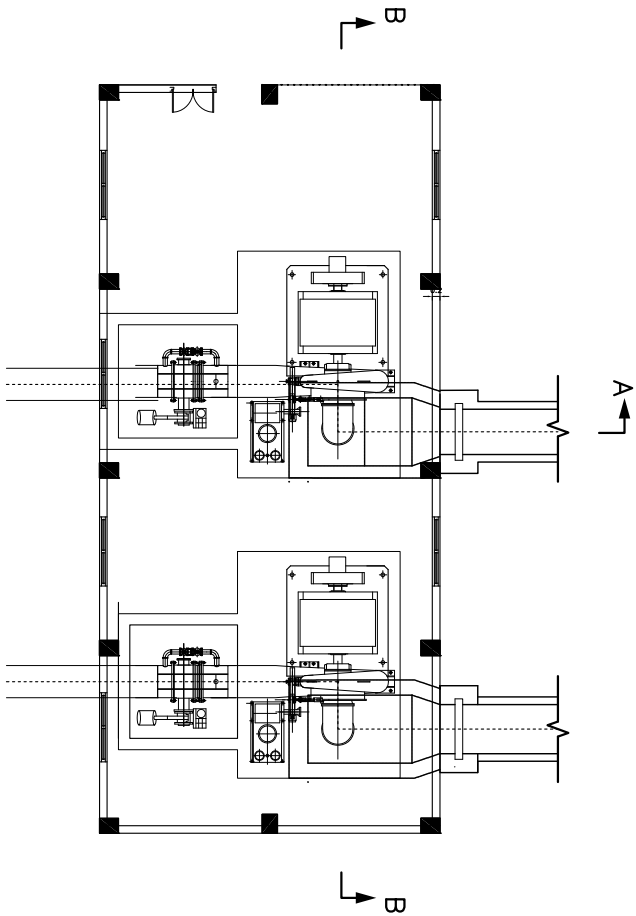


SECTION AT A-A

Scale: 1 : 100

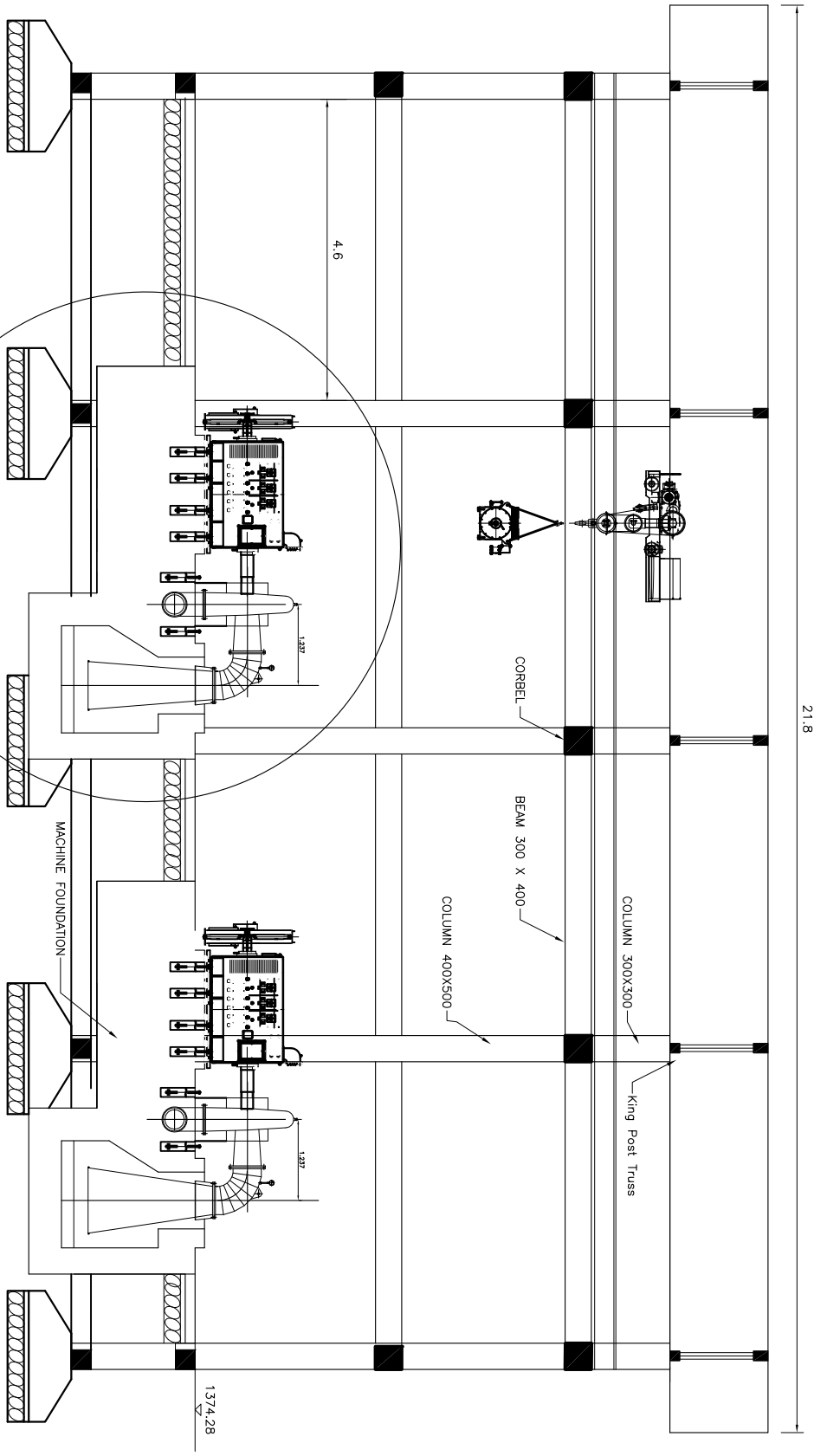
- NOTES:**
1. All dimensions are in m, unless otherwise stated.
 2. SBC has been assumed as 150 kN/m².
 3. Grade of Concrete is M20 for all Structure works.
 4. Minimum Development length is equal to 60 x dia. of bar and Minimum Lap length of bar is equal to its development length.
 5. Grade of Steel is Fe500.
 6. Clear cover for base slab is 50mm and 40mm for inner walls, outer walls, top slab.
 7. Expansion joint is provided at 12m c/c unless otherwise mentioned.
 8. Structural drawings are to be read in conjunction with G.A., EM & HM drawings.





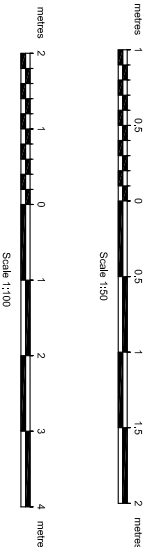
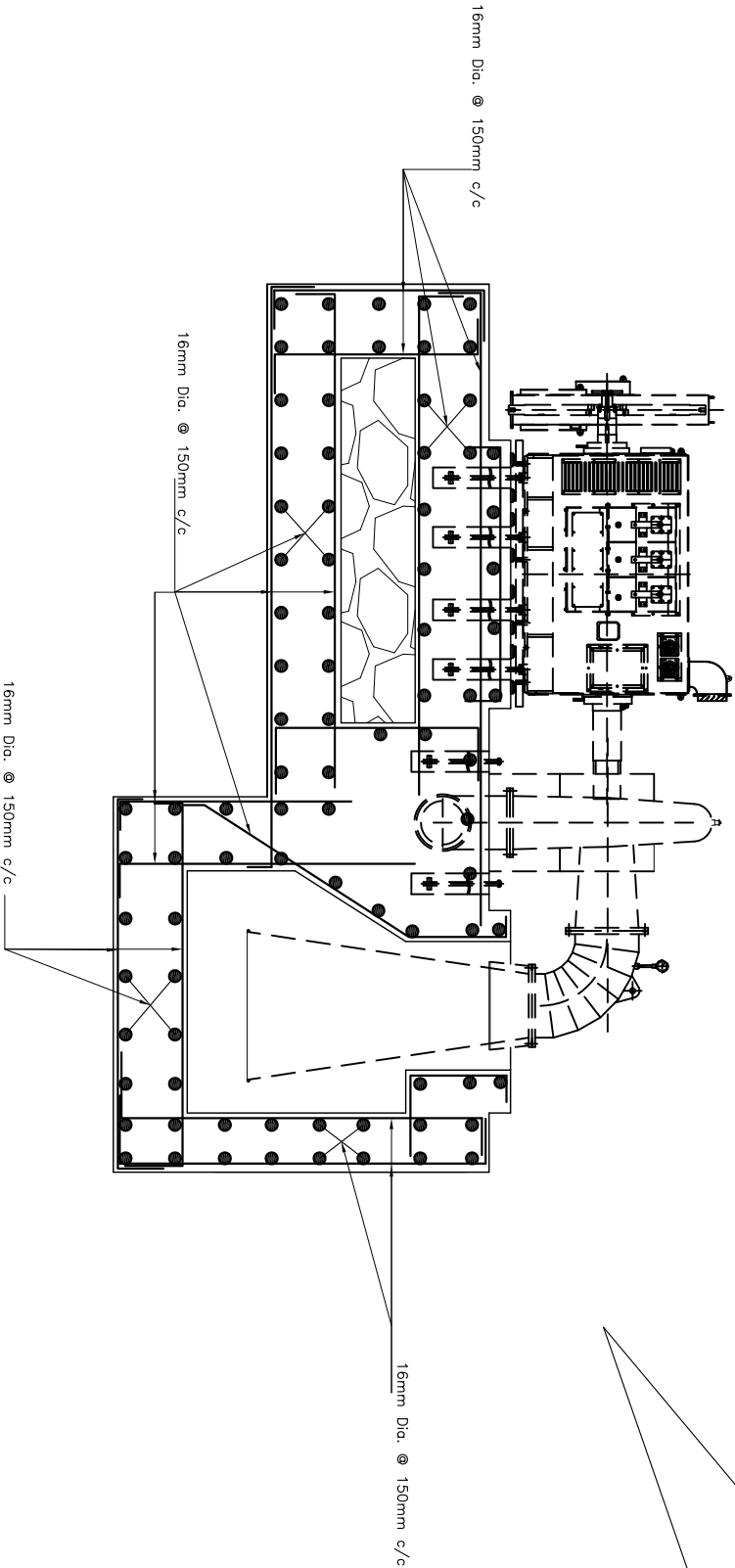
KEY PLAN

SCALE 1:200



SECTION A-A

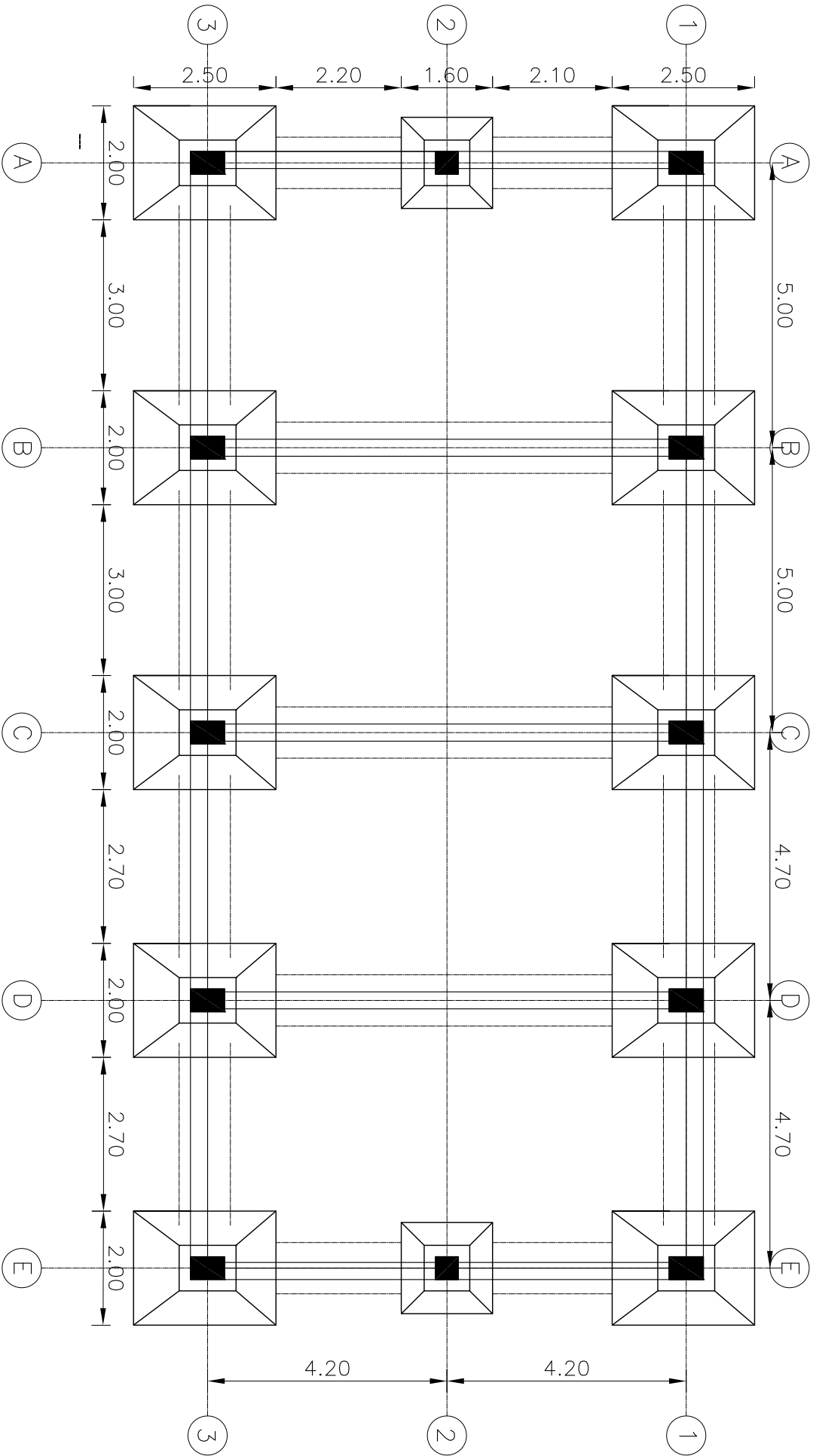
Scale: 1 : 100



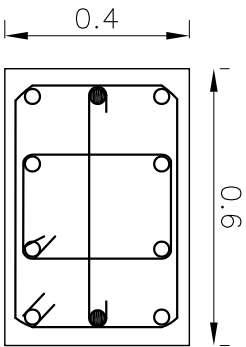
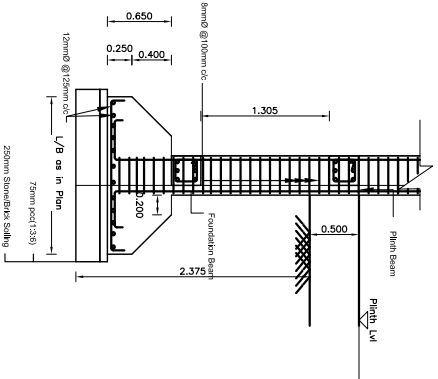
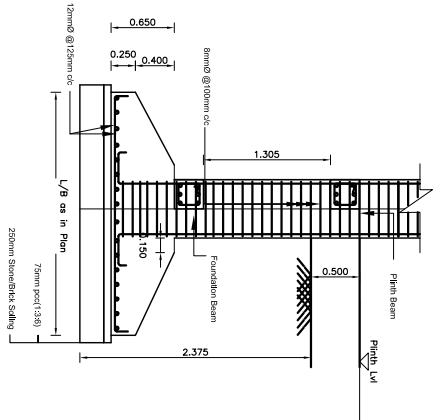
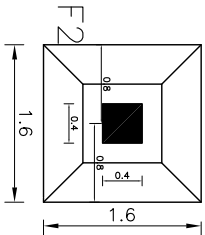
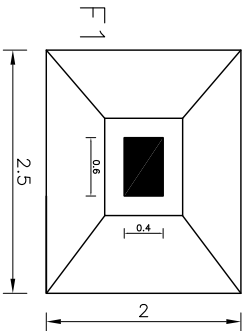
NOTES:

- All dimensions are in m, unless otherwise stated.
- SBC has been assumed as 150 KN/m².
- Grade of Concrete is M20 for all Structure works.
- Minimum Development length is equal to 60 x dia. of bar and Minimum Lap length of bar is equal to its development length.
- Grade of Steel is Fe500.
- Clear cover for base slab is 50mm and 40mm for inner walls, outer walls, top slab.
- Expansion joint is provided at 12m c/c unless otherwise mentioned.
- Structural drawings are to be read in conjunction with G.A., EM & IM drawings.

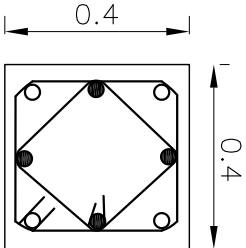
Rev.	Amendment	By	Ckd.	Rec.	App.
	Rukumeli Sand Smriti Gramin Jalidhuti Cooperative Ltd.				
	SAWVERI UTTARGANGA MINI HYDROPOWER PROJECT				
	Designed: M. Bista				
	Drawn: A.K. Maharjan				
	Checked:				
	Recommended:				
	Approved:				
POWERHOUSE MACHINE FOUNDATION SECTIONS SHEET 2 OF 2					
Alternative Energy Promotion Centre (AEP) South Asia Sub-regional Economic Cooperation – Power Expansion Project (SASEC/AEP) Rukumeli, Lalpur, Nepal Tel: +977-1-5539390, 5539391 Email: sawee@nepc.gov.np					
Date:	March 2019	Scale	AS SHOWN		
Drawing No.	SUMHP/DED-55A-02			Revision	



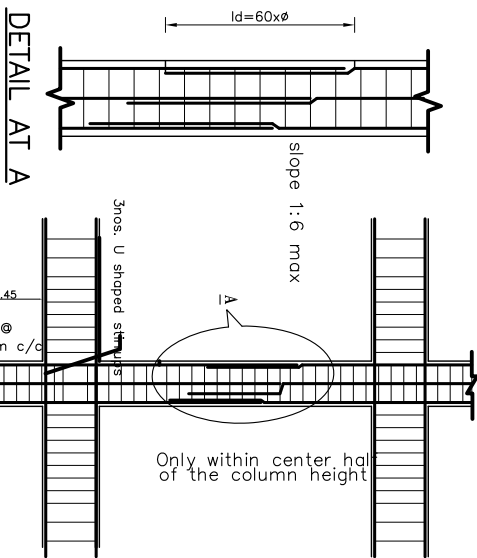
FOUNDATION LAYOUT PLAN
SCALE 1:100



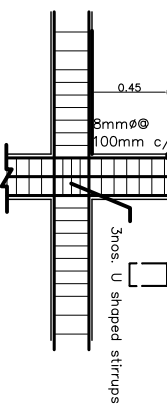
COLUMN DETAILS (C1)



COLUMN DETAILS (C2)



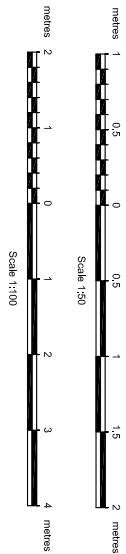
DETAIL AT A



COLUMN DETAILS
SCALE 1:50

NOTES:

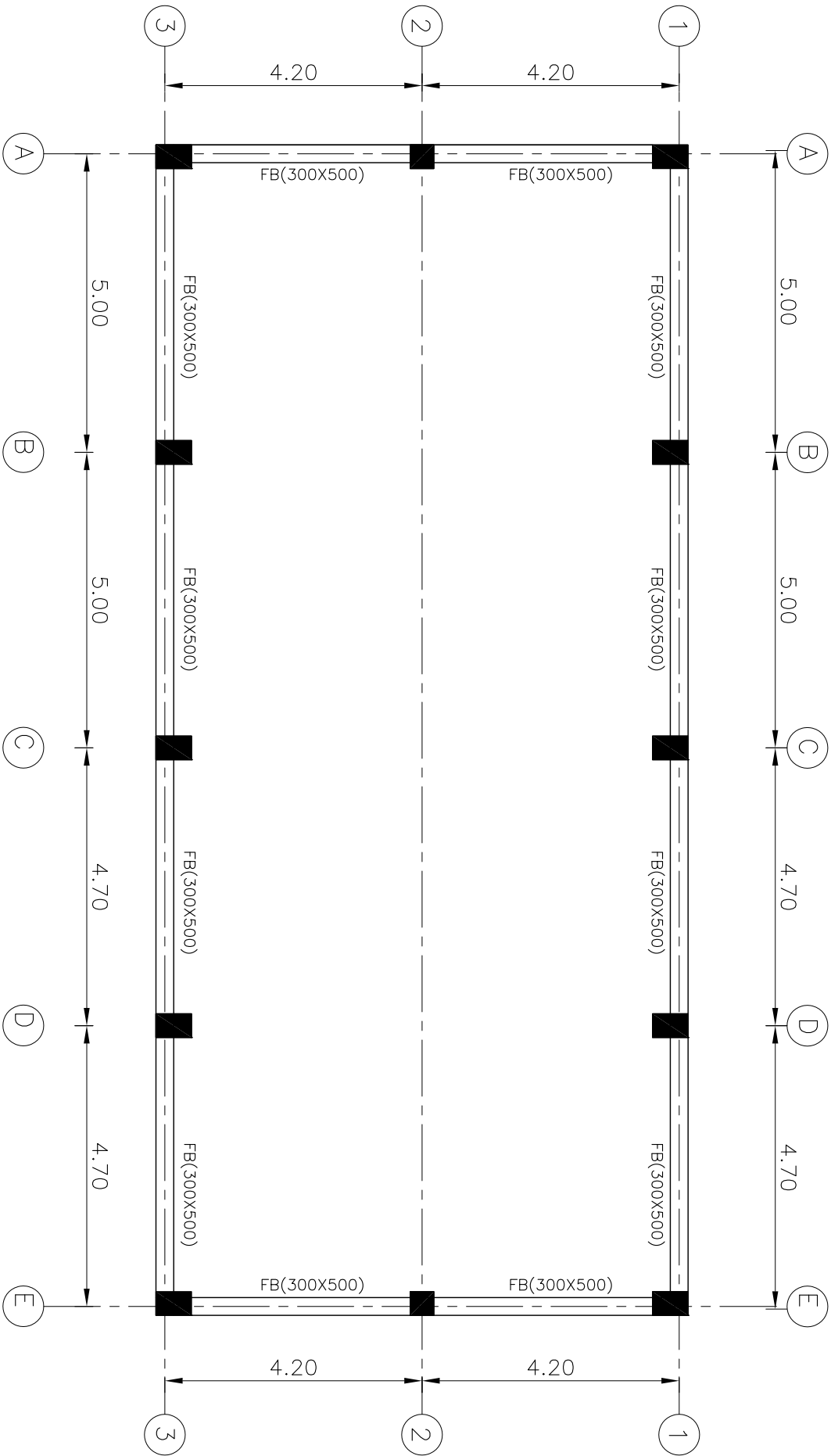
- All dimensions are in m, unless otherwise stated.
- SBC has been assumed as 150 kN/m².
- Grade of Concrete is M20 for all Structure works.
- Minimum Development length is equal to 60 x dia. of bar and Minimum Lap length of bar is equal to its development length.
- Grade of Steel is Fe500.
- Clear cover for base slab is 50mm and 40mm for inner walls, outer walls, top slab.
- Expansion joint is provided at 12m c/c unless otherwise mentioned.
- Structural drawings are to be read in conjunction with G.A., EM & HM drawings.



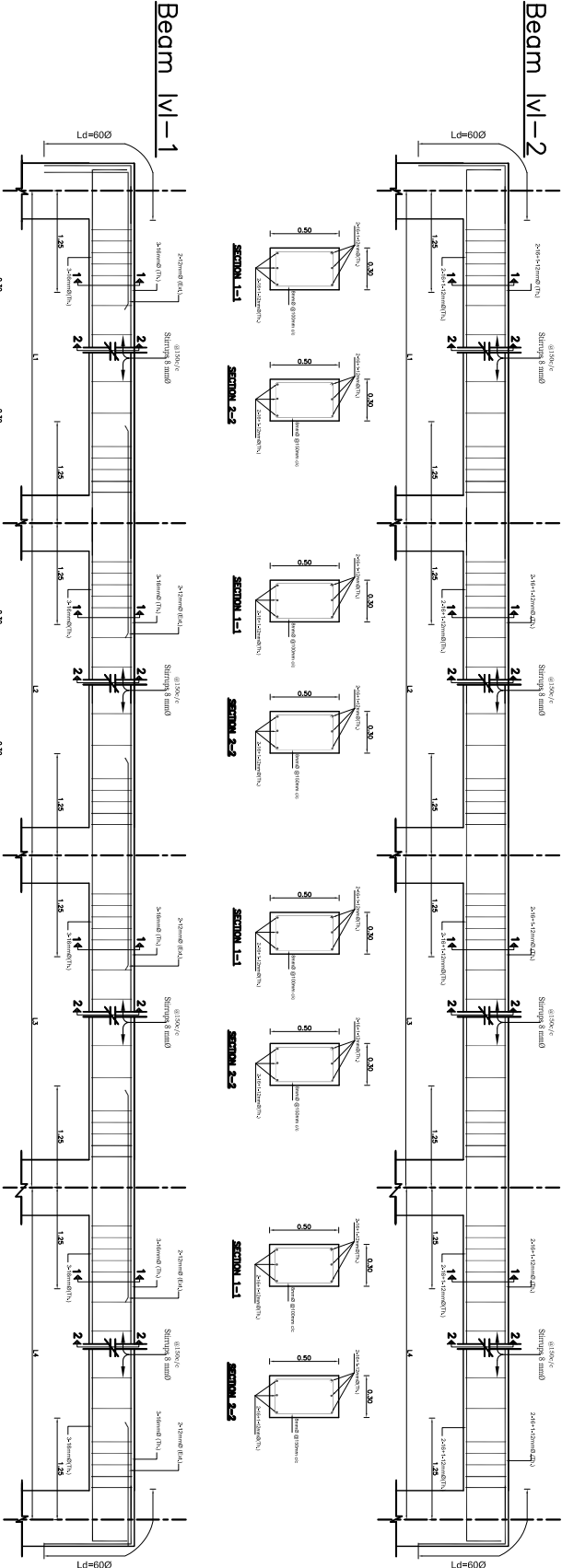
Rev. Amendment								By				Ckd.				Rec.				App.			
Rukmelli Sandi Smiti Gramin Jaldibut Cooperative Ltd.				Name				Initials				Date											
SANIVERI UTRAGANGA MINI HYDROPOWER PROJECT				Designed: M. Bista				Drawn: A.K. Mahajan															
				Checked:				Recommended:															
				Approved:																			
POWERHOUSE FOUNDATION & COLUMN PLAN AND SECTIONS SHEET 1 OF 1				Alternative Energy Promotion Centre (AEPIC)				Date: March 2019				Scale: AS SHOWN				Revision							
				South Asia Sub-regional Economic Cooperation – Power Expansion Project (SASEC/ADB)																			
				Kathmandu, Lalitpur, Nepal Tel: +9771-5539390, 5539391 Email: sasec@epic.gov.np																			

ISOLATED FOUNDATION DETAIL (TYP.)

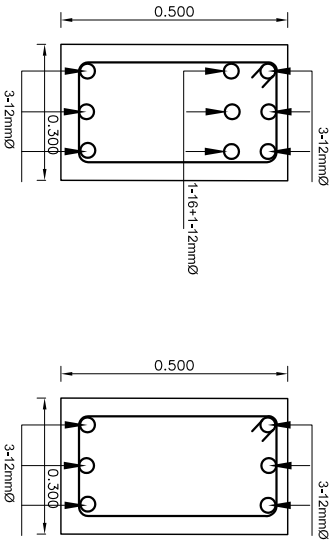
SCALE 1:50



FLOOR BEAM LAYOUT PLAN
SCALE 1:100

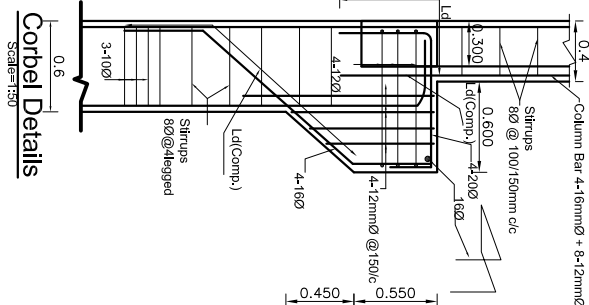


FLOOR BEAM (FB1) PROFILE AND SECTION
SCALE 1:20



Floor Beam1 @
level=1377.43

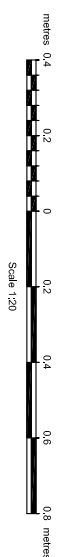
Floor Beam2 @
level=1380.13



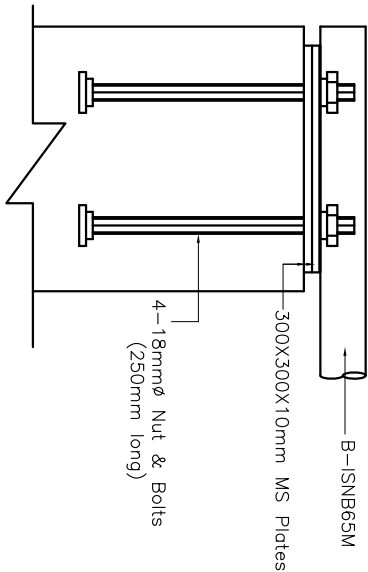
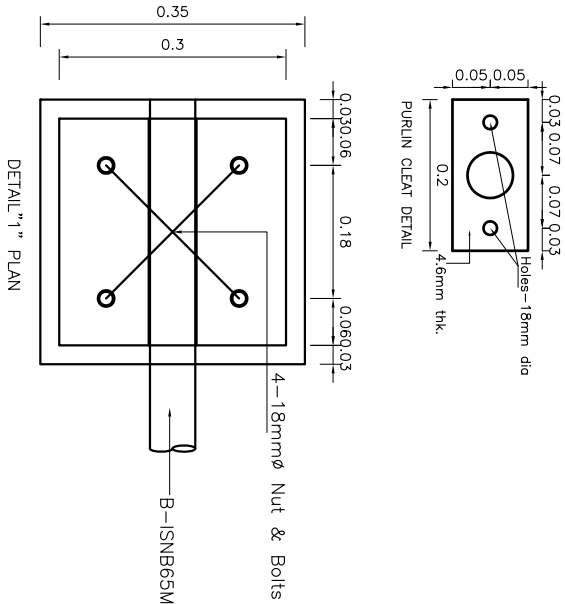
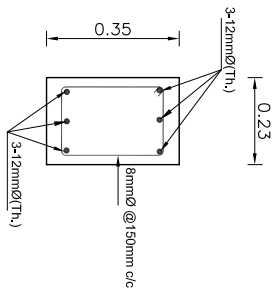
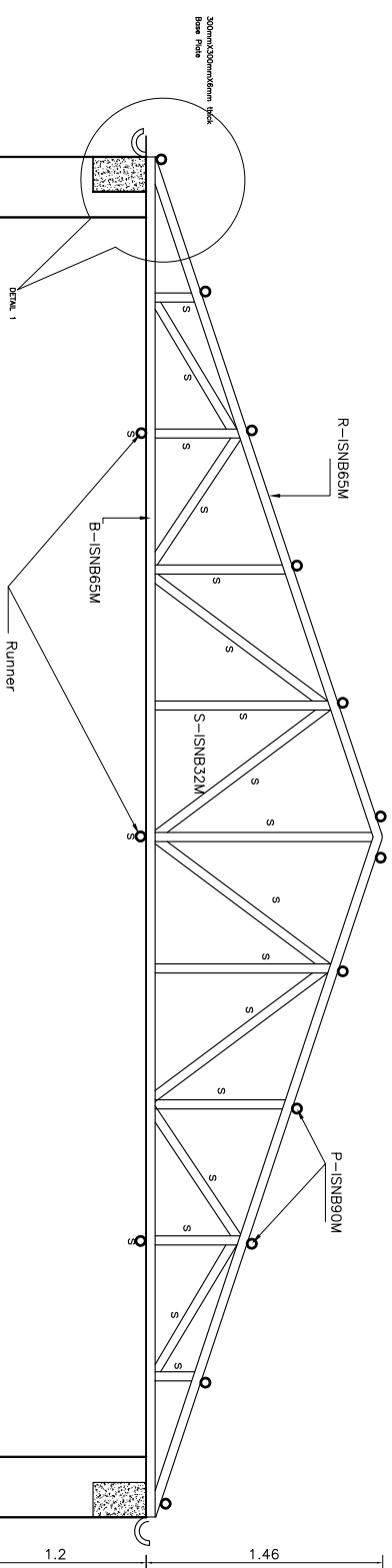
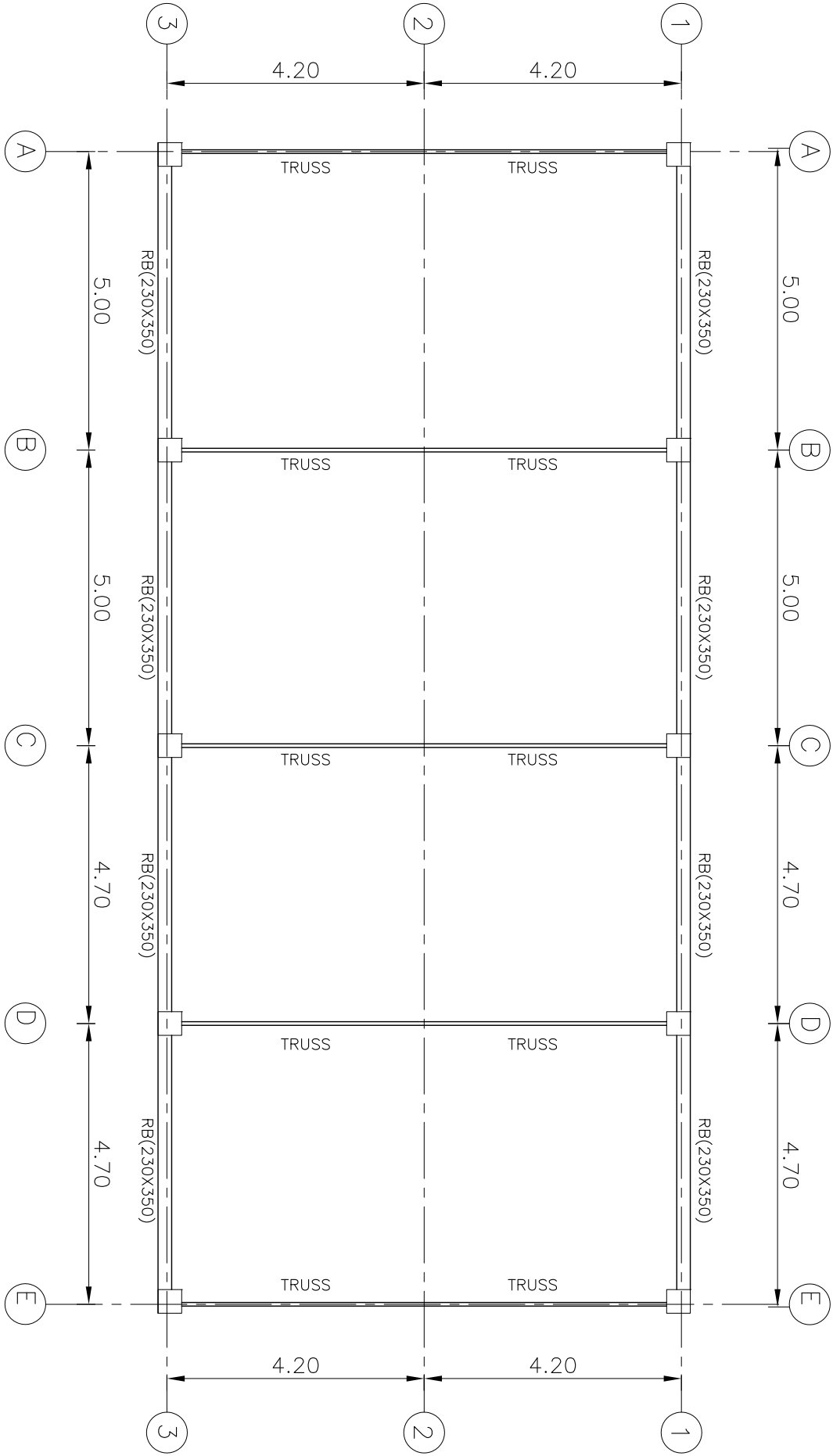
Corbel Details
SCALE 1:50

NOTES:

1. All dimensions are in m, unless otherwise stated.
2. SBC has been assumed as 150 KN/m².
3. Grade of Concrete is M20 for all Structure works.
4. Minimum Development length is equal to 60 x dia. of bar and Minimum Lap length of bar is equal to its development length.
5. Grade of Steel is Fe500.
6. Clear cover for base slab is 50mm and 40mm for inner walls, outer walls, top slab.
7. Expansion joint is provided at 12m c/c unless otherwise mentioned.
8. Structural drawings are to be read in conjunction with G.A., EM & HM drawings.

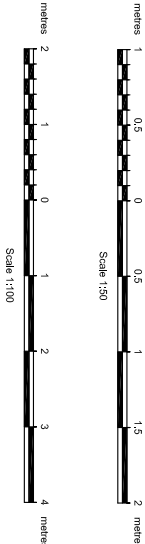


					</				



NOTES:

- All dimensions are in m, unless otherwise stated.
- SBC has been assumed as 150 KN/m².
- Grade of Concrete is M20 for all Structure works.
- Minimum Development length is equal to 60 x dia. of bar and Minimum Lap length of bar is equal to its development length.
- Grade of Steel is Fe500.
- Clear cover for base slab is 50mm and 40mm for inner walls, outer walls, top slab.
- Expansion joint is provided at 12m c/c unless otherwise mentioned.
- Structural drawings are to be read in conjunction with G.A., EM & HM drawings.



Rev.	Amendment	By	Ckd.	Rec.	App.
Rukumelli Sahid Smriti Gramin Jeebhukt Cooperative Ltd.					
SANIVERI UTTARGANGA MINI HYDROPOWER PROJECT					
POWERHOUSE		Name		Initials	
ROOF TRUSS		Designed:		M. Bista	
SECTION AND DETAILS		Drawn:		A.K. Maharjan	
SHEET 1 OF 1		Checked:		Recommended:	
Alternative Energy Promotion Centre (AEPCC)		Approved:			
South Asia Sub-regional Economic Cooperation - Power		Date:		Scale	
Expansion Project (SASEC/A08)		March 2019		AS SHOWN	
Kumhar, Lalpur, Nepal		Drawing No.		Revision	
Tel: +9771-5539390, 5539391		SUMHP/DED-55E-01			
Email: sasec@epcc.gov.np					