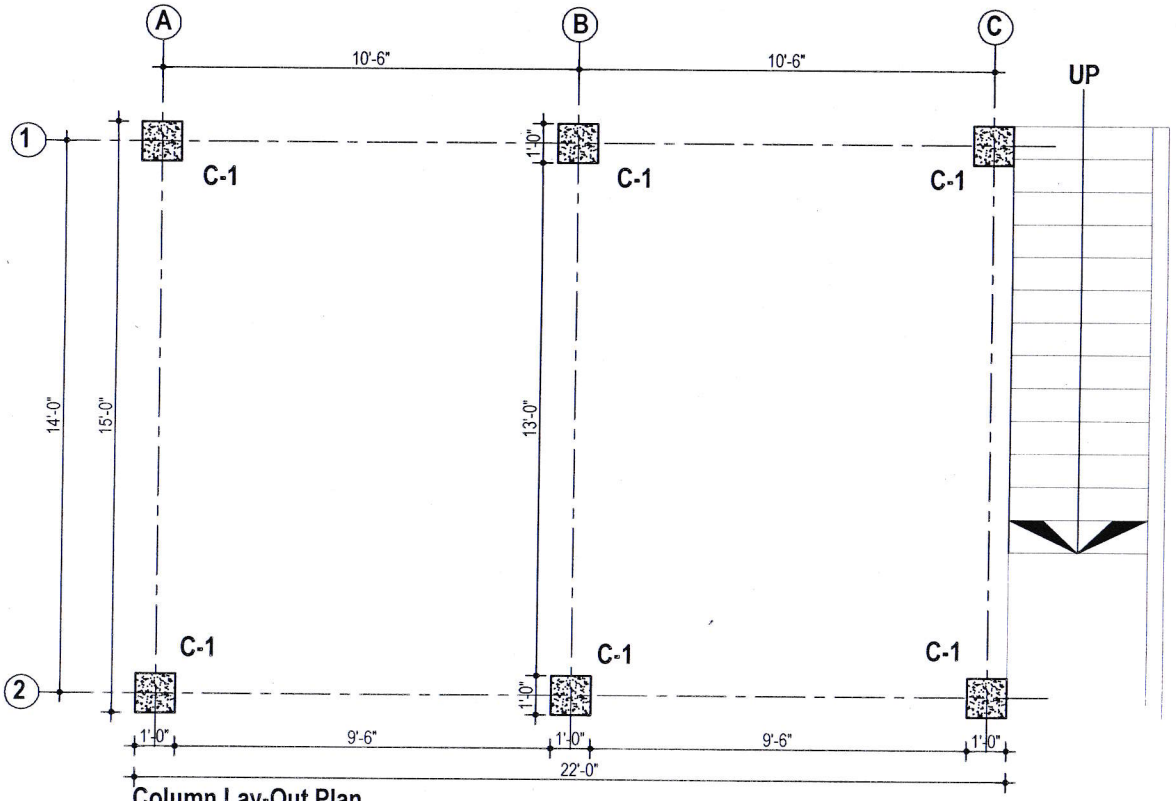
COLUMN SCHEDULE

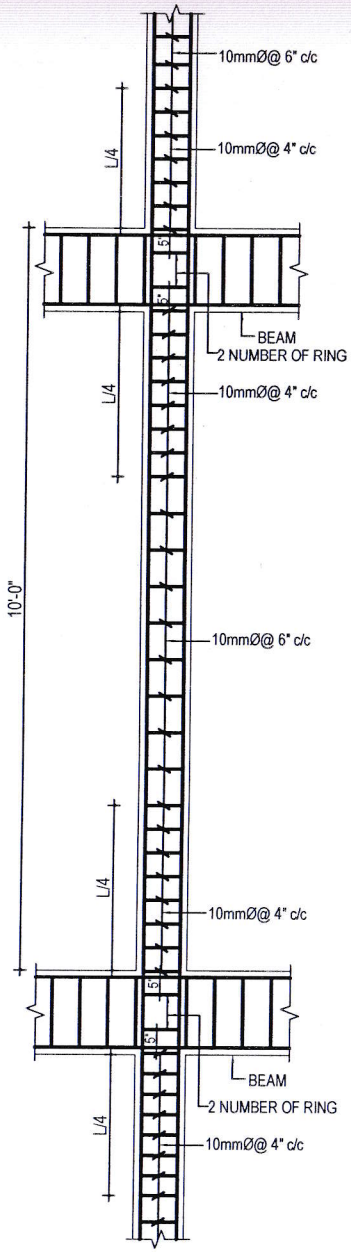
Column Index	Nos of Column	Below Ground Level	Ground, & First,
C-1	04 nos	15" × 15", 6-16mmØ	12" × 12", 6-16mmØ

Notes for RCC member

1. All rebars shall be deformed bar of grade 60 (fy = 60000 psi);
2. Concrete compressive strength, f'c=3500 psi;
3. Mix proportion for Column, Footing and Beam (1 : 1.5 : 3); Use Sylhet Sand (F.M 2.5) as fine Aggregate and Stone Chips (20mm down well graded) as Course Aggregate.
4. Clear cover of rebars in footing & column below GL= 3½";
5. Clear cover of rebars in column above GL= 2½".

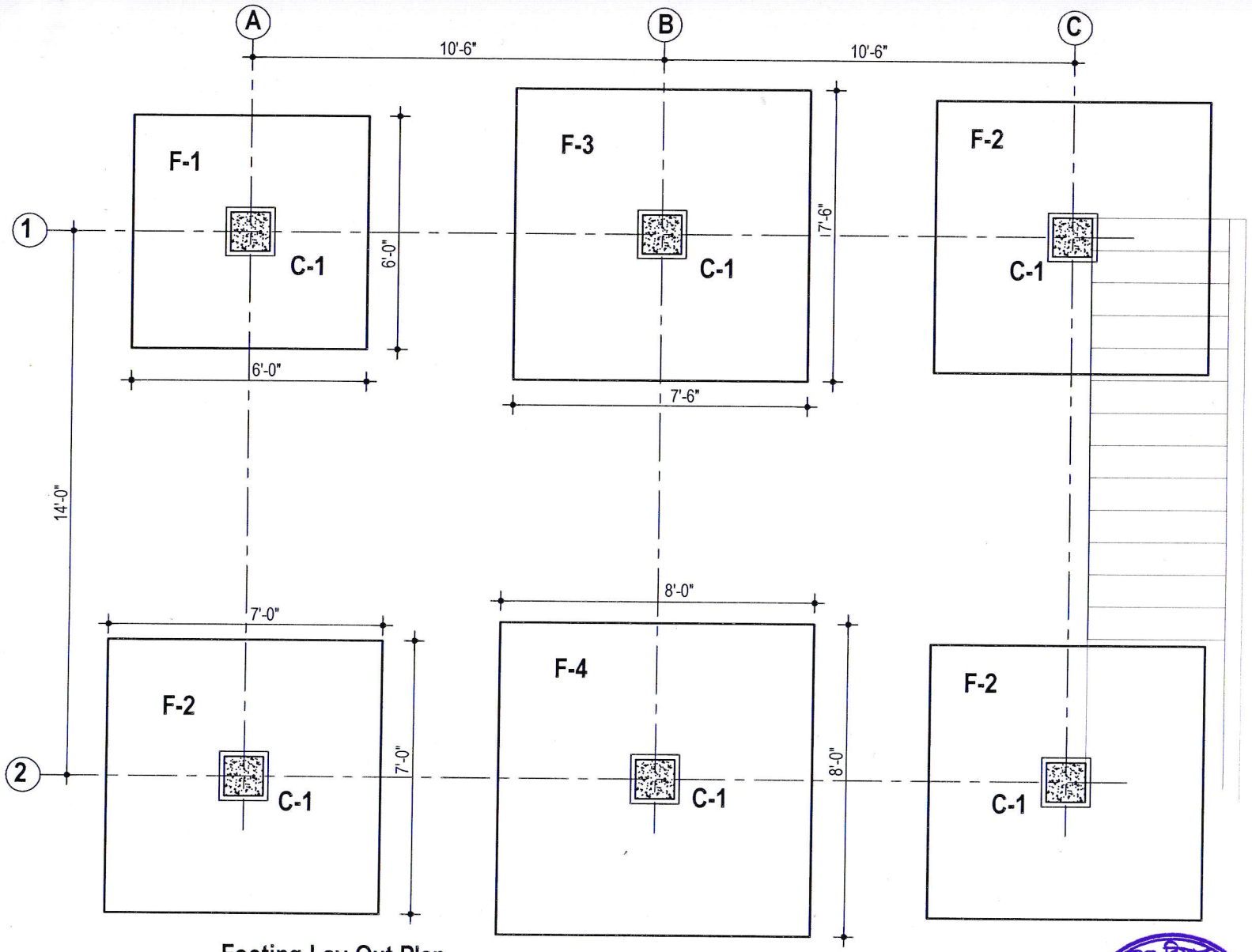


Column Lay-Out Plan

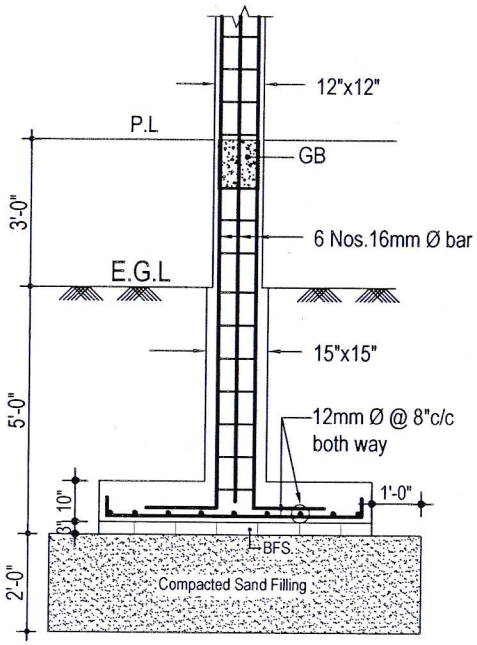


COLLUMN DETAIL

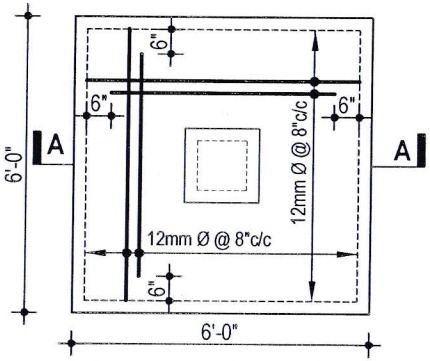
Project :	Consultant :	Drawing Title :	Drawn by :				
Structural Design for 02 (Two) Storied Residential Building of CIDRR Coastal Project at Kalapara, Potuakhali. Bangladesh.	Housing and Building Research Institute Ministry of Housing & Public Works 120/3, Darus-salam, Mirpur, Dhaka-1216.	Column Lay-Plan & Column Detail	Md. Meraj Hossain Tracer	Md. Ibnul Warah Research Engineer	Engr. Md. Arifujjaman Senior Research Engineer	Engr. Md. Shakhawat Hossain Principal Research Engineer	Sheet- 01 Date:18-07-2021



Footing Lay-Out Plan

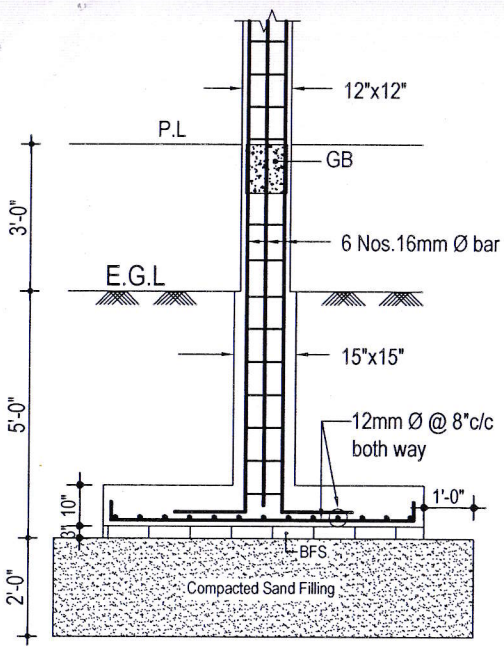


Section A-A

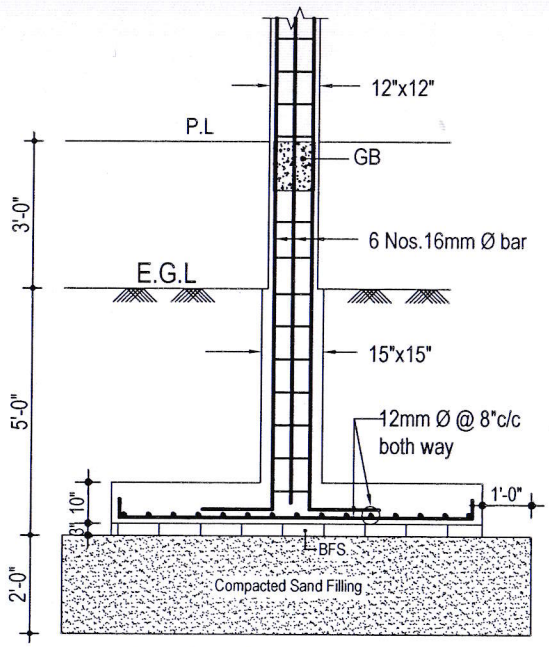


Plan of Footing F-1

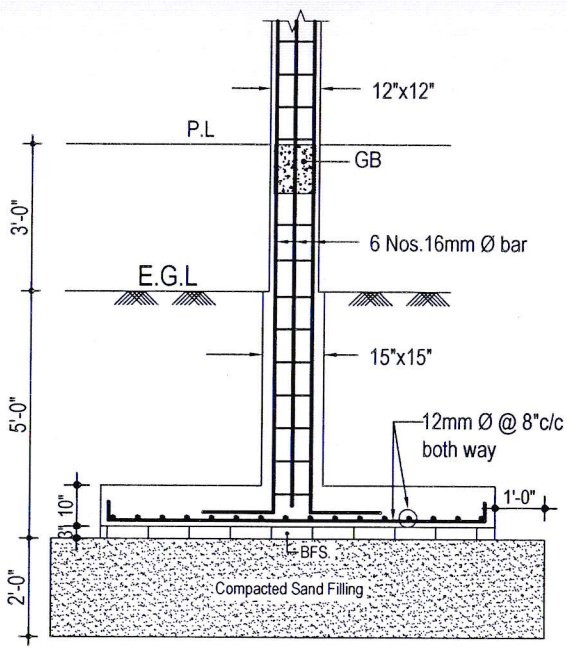
Project : **Structural Design for 02 (Two) Storied Residential Building of CIDRR Coastal Project at Kalapara, Potuakhali. Bangladesh.**	Consultant : **Housing and Building Research Institute** Ministry of Housing & Public Works 120/3, Darus-salam, Mirpur, Dhaka-1216.	Drawing Title : **Foundation Lay-Plan & bFooting Detail**	Drawn by : Md. Meraj Hossain Tracer	**Md. Ibnul Warah** Research Engineer	**Engr. Md. Arifujjaman** **Senior Research Engineer**	**Engr. Md. Shakhawat Hossain** Principal Research Engineer	**Sheet- 02** **Date:18-07-2021**



Section B-B



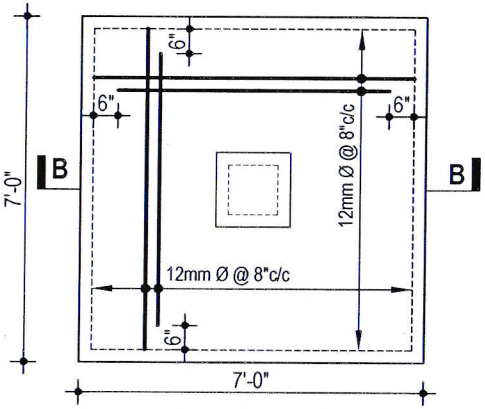
Section C-C



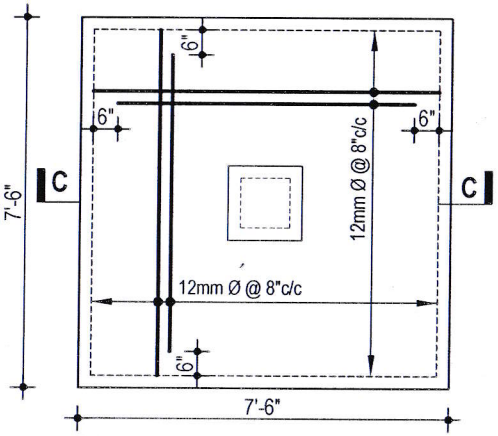
Section D-D

Notes for RCC member

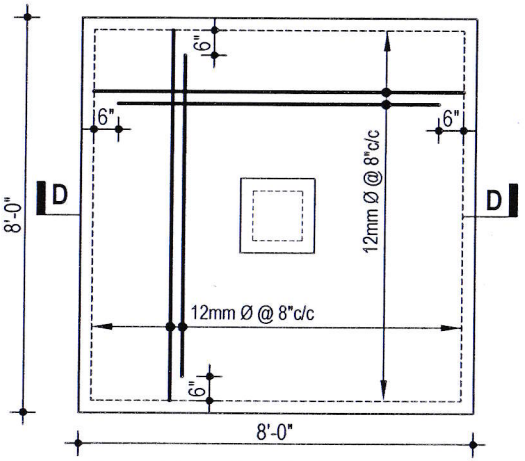
1. All rebars shall be deformed bar of grade 60 (fy = 60000 psi);
2. Concrete compressive strength, f'c=3500 psi;
3. Mix proportion for Column, Footing and Beam (1 : 1.5 : 3); Use Sylhet Sand (F.M 2.5) as fine Aggregate and Stone Chips (20mm down well graded) as Course Aggregate.
4. Clear cover of rebars in footing & column below GL= 3";
5. Clear cover of rebars in column above GL= 2".



Plan of Footing F-2

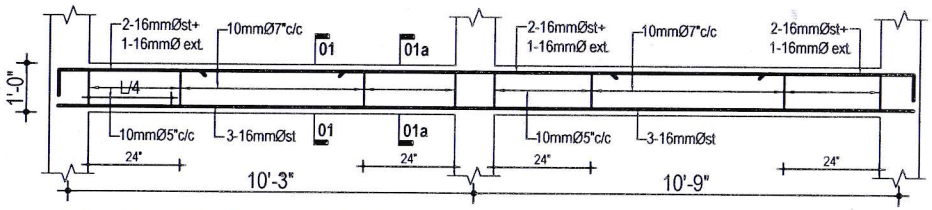


Plan of Footing F-3

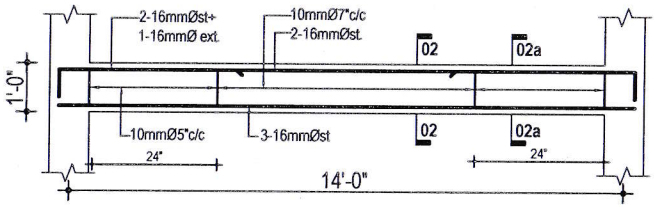


Plan of Footing F-4

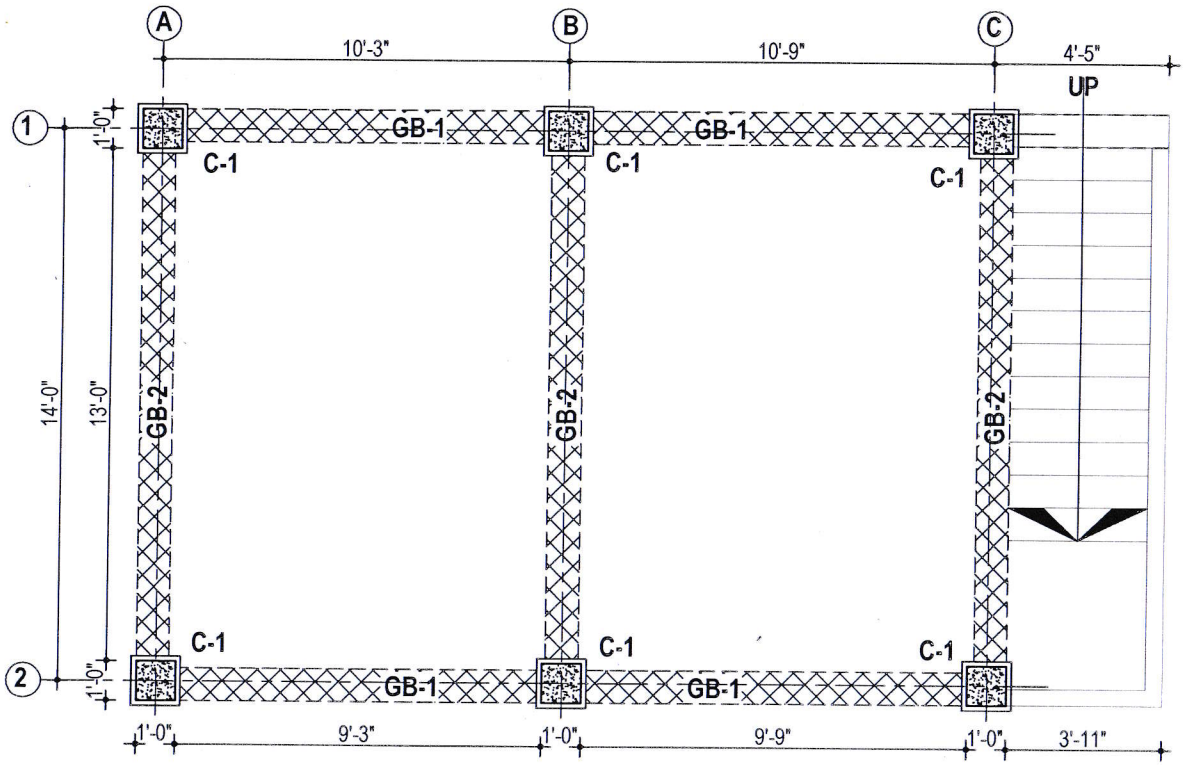
Project :	Consultant :	Drawing Title :	Drawn by :				
Structural Design for 02 (Two) Storied Residential Building of CIDRR Coastal Project at Kalapara, Potuakhali. Bangladesh.	**Housing and Building Research Institute** Ministry of Housing & Public Works 120/3, Darus-salam, Mirpur, Dhaka-1216.	**Footing Detail**	Md. Meraj Hossain Tracer	**Md. Ibnul Warah** Research Engineer	**Engr. Md. Arifujjaman** **Senior Research Engineer**	**Engr. Md. Shakhawat Hossain** Principal Research Engineer	**Sheet- 0 3** Date:18-07-2021



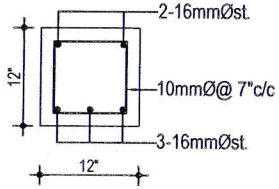
LONG SEC. OF GRADE BEAM GB-1



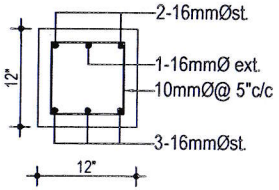
LONG SEC. OF GRADE BEAM GB-2



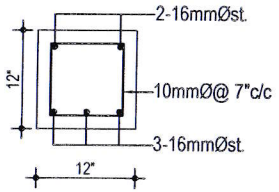
Grade Beam Lay-Out Plan



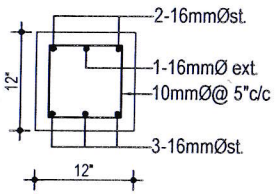
SEC. 01-01



SEC. 01a-01a



SEC. 02-02

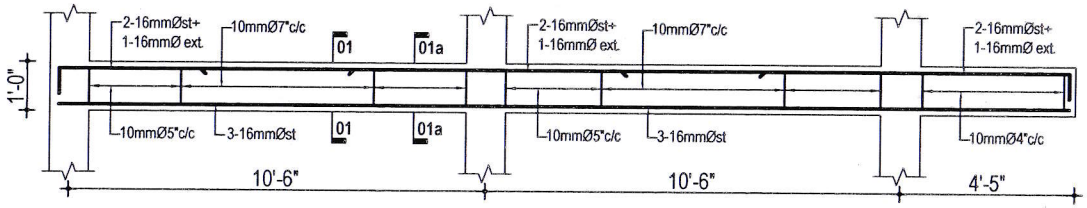


SEC. 02a-02a

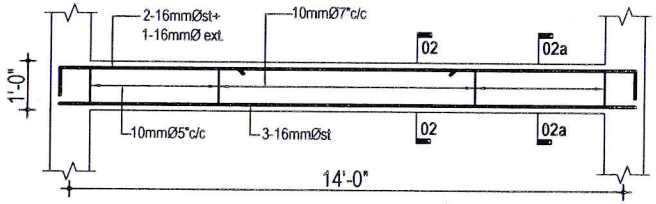
Notes for RCC member

1. All rebars shall be deformed bar of grade 60 (fy = 60000 psi);
2. Concrete compressive strength, f'c=3500 psi;
3. Mix proportion for Grade Beam (1 : 1.5 : 3);
   Use Sylhet Sand (F.M 2.5) as fine Aggregate and Stone Chips (20mm down well graded) as Course Aggregate.
4. Clear cover of rebars in grade beam = 2½";

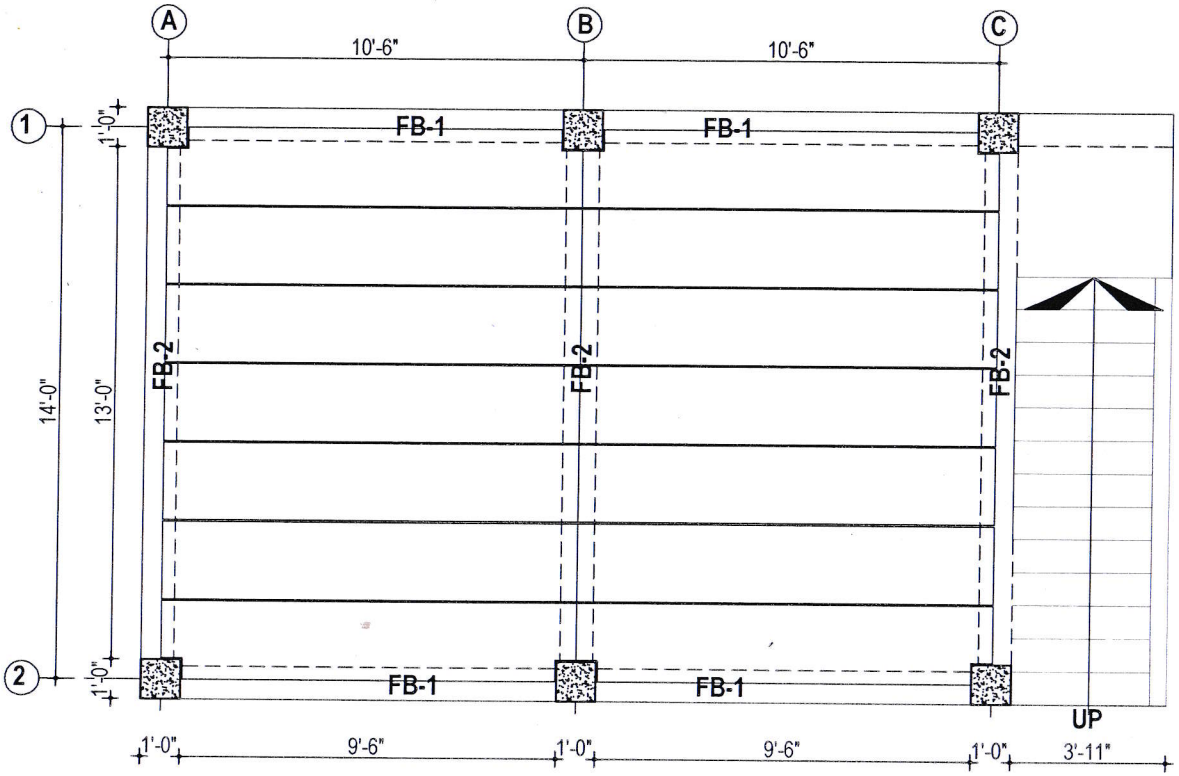
Project : **Structural Design for 02 (Two) Storied Residential Building of CIDRR Coastal Project at Kalapara, Potuakhali. Bangladesh.**	Consultant : **Housing and Building Research Institute** Ministry of Housing & Public Works 120/3, Darus-salam, Mirpur, Dhaka-1216.	Drawing Title : **Grade Beam Lay-Plan & Grade Beam Detail**	Drawn by : Md. Meraj Hossain Tracer	 **Md. Ibnul Warah** Research Engineer	 **Engr. Md. Arifujjaman** **Senior Research Engineer**	 **Engr. Md. Shakhawat Hossain** Principal Research Engineer	**Sheet- 0 4** **Date:18-07-2021**



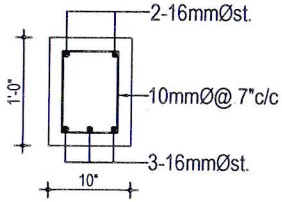
LONG SEC. OF FLOOR BEAM FB-1



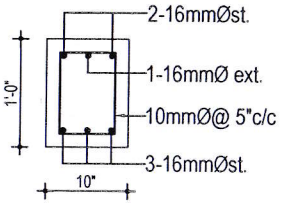
LONG SEC. OF FLOOR BEAM FB-2



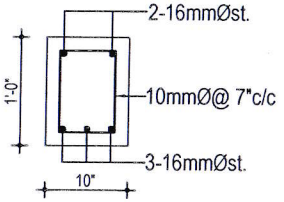
1ST FLOOR SLAB REINFORCEMENT & FLOOR BEAM LAY-OUT PLAN



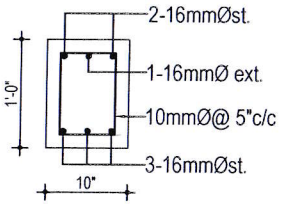
SEC. 01-01



SEC. 01a-01a



SEC. 02-02

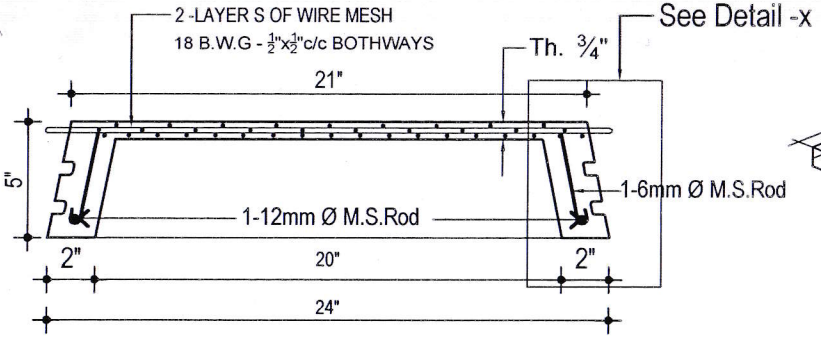


SEC. 02a-02a

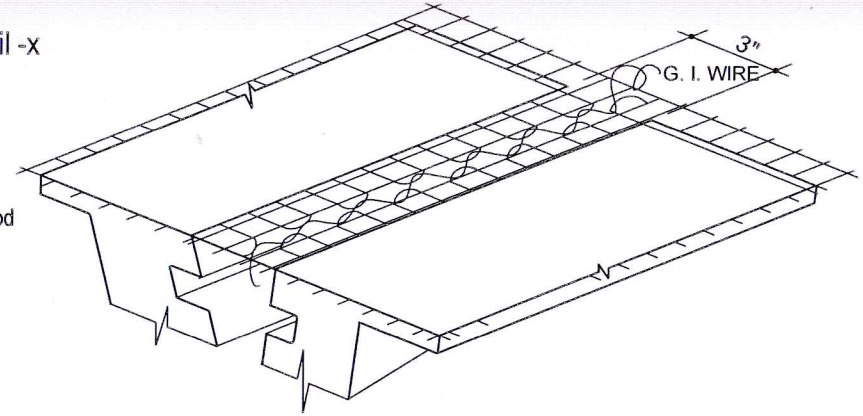
Notes for RCC member

1. All rebars shall be deformed bar of grade 60 (fy = 60000 psi);
2. Concrete compressive strength, f'c=3500 psi;
3. Mix proportion for Floor Beam (1 : 1.5 : 3);
   Use Sylhet Sand (F.M 2.5) as fine Aggregate and Stone Chips (20mm down well graded) as Course Aggregate.
4. Clear cover of rebars in floor beam = 2";

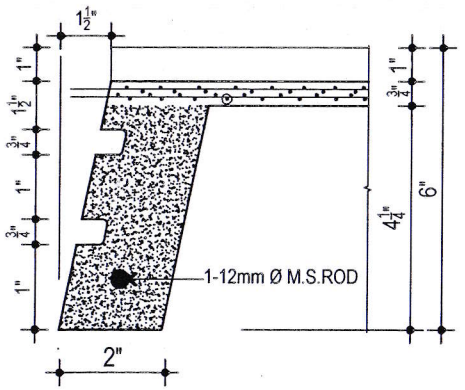
Project :	Consultant :	Drawing Title :	Drawn by :				
Structural Design for 02 (Two) Storied Residential Building of CIDRR Coastal Project at Kalapara, Potuakhali. Bangladesh.	**Housing and Building Research Institute** Ministry of Housing & Public Works 120/3, Darus-salam, Mirpur, Dhaka-1216.	**Floor Beam Detail & F.C Channel**	Md. Meraj Hossain Tracer	**Md. Ibnul Warah** Research Engineer	**Engr. Md. Arifujjaman** **Senior Research Engineer**	**Engr. Md. Shakhawat Hossain** Principal Research Engineer	**Sheet- 06** **Date:18-07-2021**



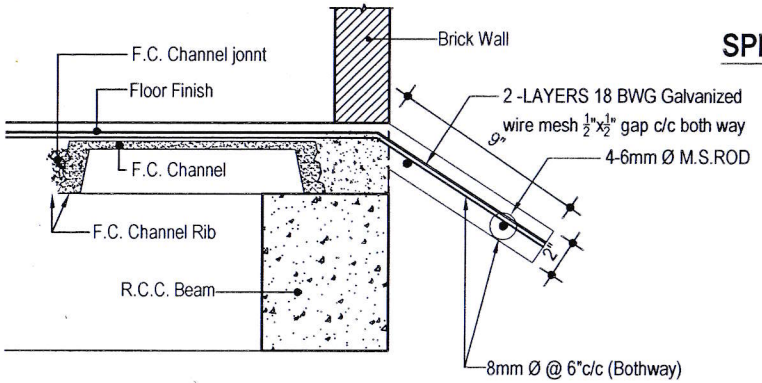
Section A-A



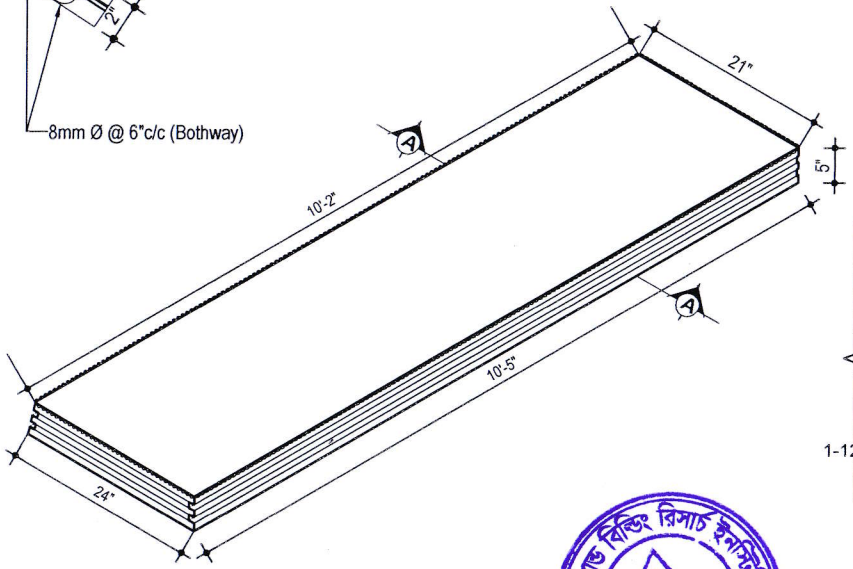
SPIRALLY TIED WIRE MESH OF THE ADJACENT CHANNELS



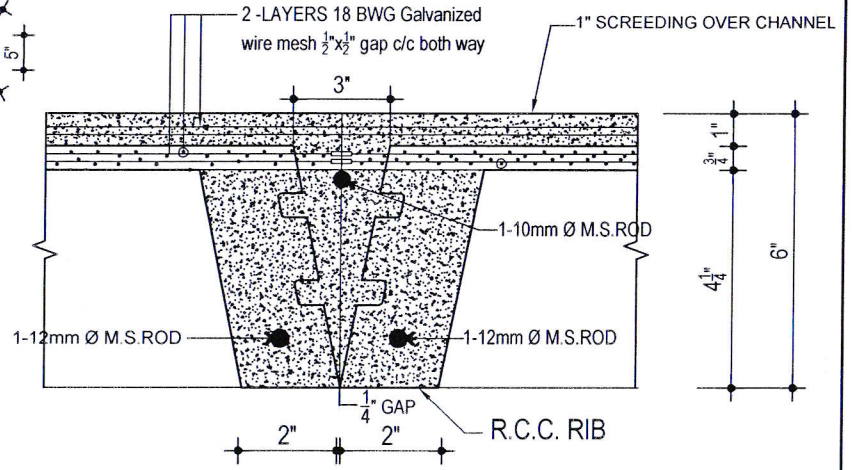
Detail -x (F.C. Channel Rib)



Detail of F.C. Channel Side Joint

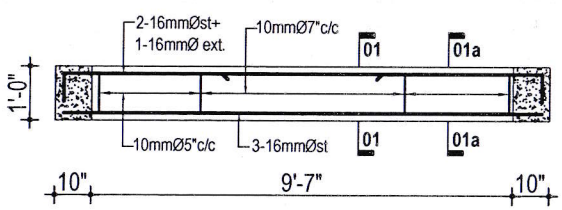


ISOMETRIC VIEW OF F.C.CHANNEL

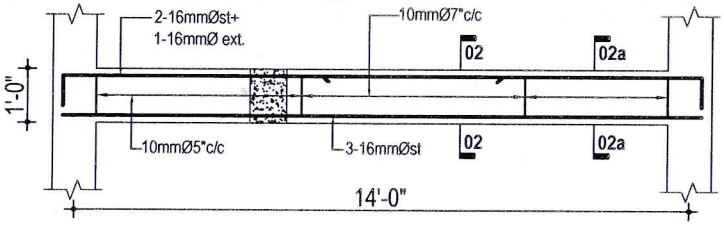


Detail of F.C. Channel Middel Joint

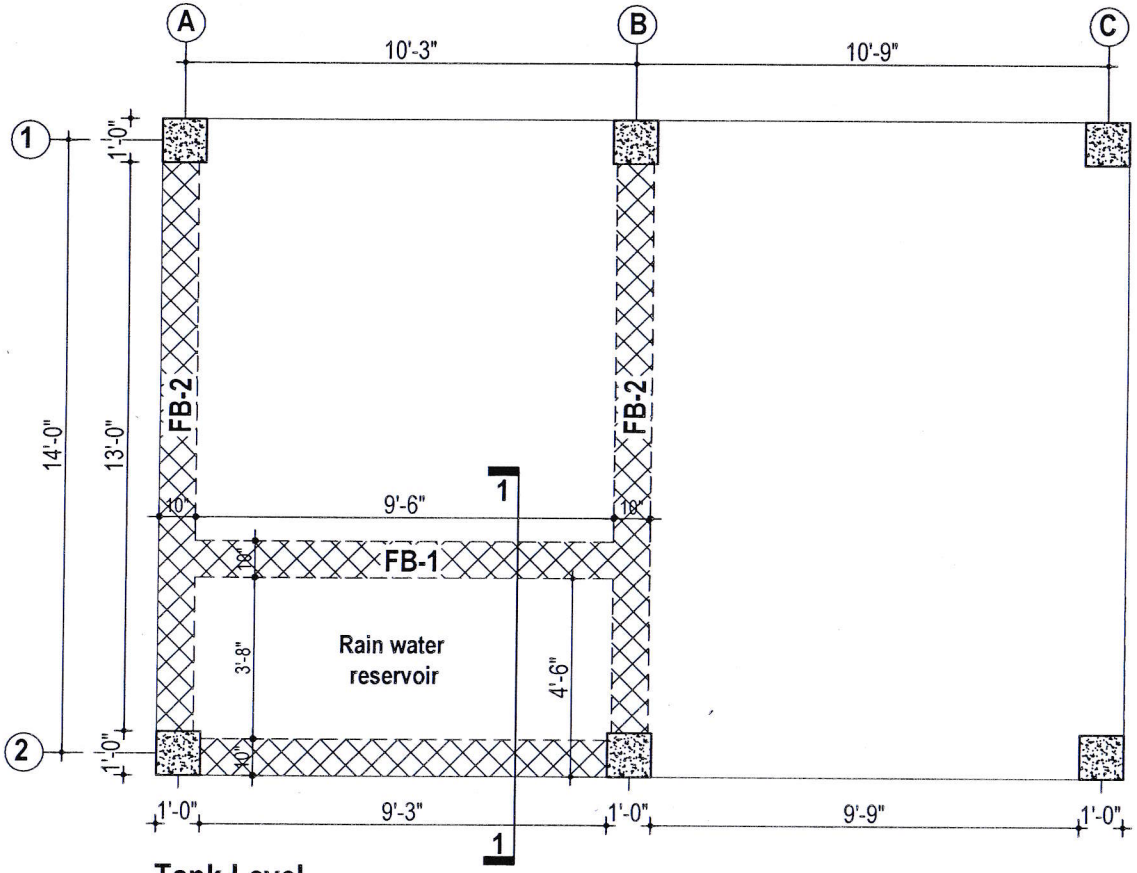
Project : **Structural Design for 02 (Two) Storied Residential Building of CIDRR Coastal Project at Kalapara, Potuakhali. Bangladesh.**	Consultant : **Housing and Building Research Institute** Ministry of Housing & Public Works 120/3, Darus-salam, Mirpur, Dhaka-1216.	Drawing Title : **Ferro Cement Channel Detail**	Drawn by Md. Meraj Hossain Tracer	 **Md. Ibnul Warah** Research Engineer	 **Engr. Md. Arifujjaman** **Senior Research Engineer**	 **Engr. Md. Shakhawat Hossain** Principal Research Engineer	**Sheet- 07** **Date:18-07-2021**



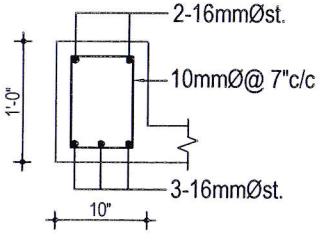
LONG SEC. OF FLOOR BEAM FB-1



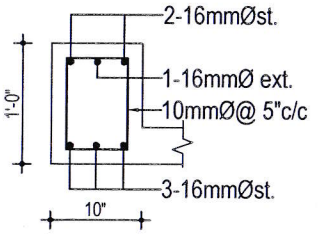
LONG SEC. OF FLOOR BEAM FB-2



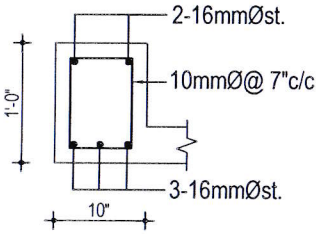
Tank Level



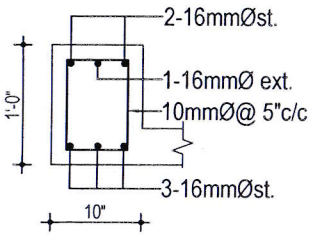
SEC. 01-01



SEC. 01a-01a



SEC. 02-02

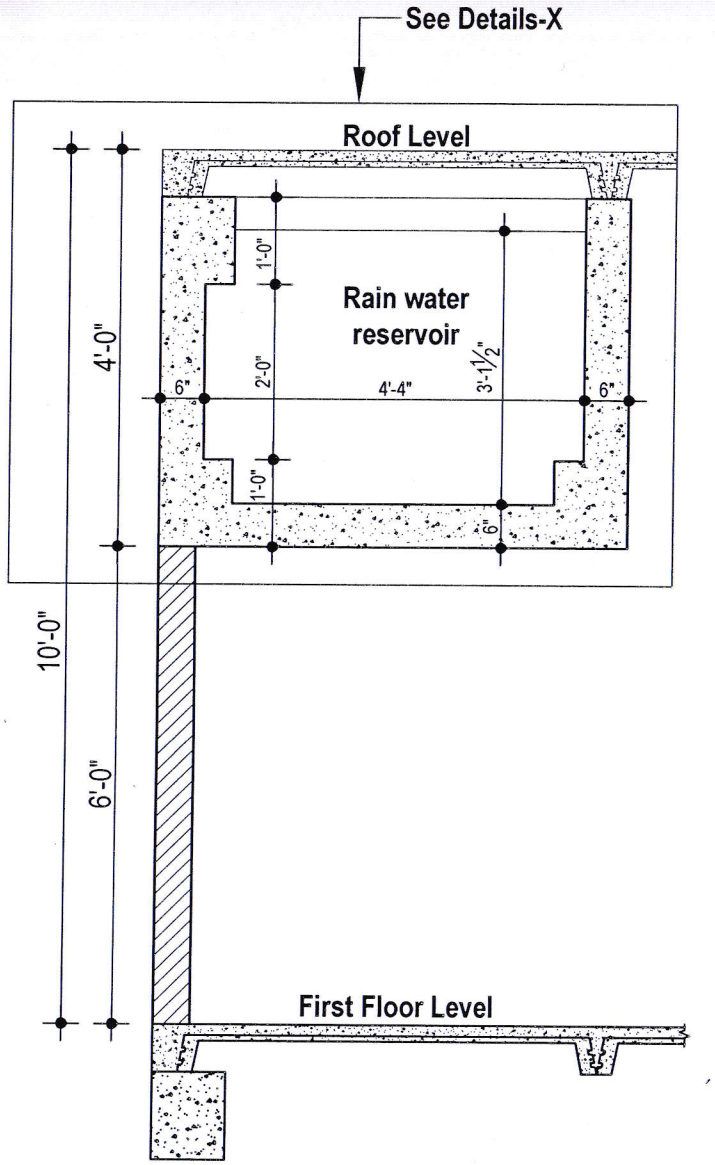


SEC. 02a-02a

Notes for RCC member

1. All rebars shall be deformed bar of grade 60 (fy = 60000 psi);
2. Concrete compressive strength, f'c=3500 psi;
3. Mix proportion for Floor Beam (1 : 1.5 : 3);
   Use Sylhet Sand (F.M 2.5) as fine Aggregate and Stone Chips (20mm down well graded) as Course Aggregate.
4. Clear cover of rebars in Water Reservoir = 2";

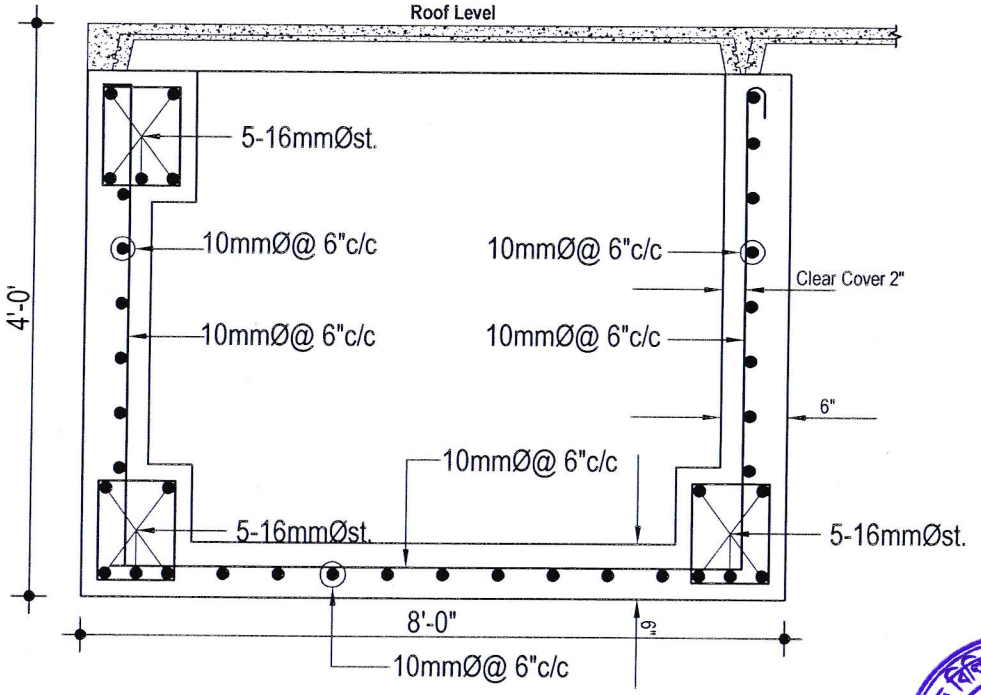
Project : **Structural Design for 02 (Two) Storied Residential Building of CIDRR Coastal Project at Kalapara, Potuakhali. Bangladesh.**	Consultant : **Housing and Building Research Institute** Ministry of Housing & Public Works 120/3, Darus-salam, Mirpur, Dhaka-1216.	Drawing Title : **Rain water reservoir Beam Detail**	Drawn by : Md. Meraj Hossain Tracer	**Md. Ibnul Warah** Research Engineer	**Engr. Md. Arifujjaman** **Senior Research Engineer**	**Engr. Md. Shakhawat Hossain** Principal Research Engineer	**Sheet- 0 8** **Date:18-07-2021**



Section 1-1 (Tank Level)

Notes for RCC member

1. All rebars shall be deformed bar of grade 60 (fy = 60000 psi);
2. Concrete compressive strength, f'c=3500 psi;
3. Mix proportion for Water Reservoir (1 : 1.5 : 3);
   Use Sylhet Sand (F.M 2.5) as fine Aggregate and Stone Chips (20mm down well graded) as Course Aggregate.
4. Clear cover of rebars in Water Reservoir = 2";



Details-X (Rain water reservoir Reinforcement)

Project :	Consultant :	Drawing Title :	Drawn by :				
Structural Design for 02 (Two) Storied Residential Building of CIDRR Coastal Project at Kalapara, Potuakhali. Bangladesh.	Housing and Building Research Institute Ministry of Housing & Public Works 120/3, Darus-salam, Mirpur, Dhaka-1216.	Rain water reservoir Reinforcement Detail	Md. Meraj Hossain Tracer	Md. Ibnul Warah Research Engineer	Engr. Md. Arifujjaman Senior Research Engineer	Engr. Md. Shakhawat Hossain Principal Research Engineer	Sheet- 0 9 Date:18-07-2021