

# NOTES :-

**STRUCTURAL DRAWINGS SHOULD BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DRAWINGS.**

THIS NOTE VALID FOR THE DRAWING RELATED TO THIS PROJECT:

1. PLEASE DO NOT SCALE FROM THE DRAWINGS.
2. ALL DIMENSIONS ON THIS DRAWINGS SHALL BE CHECKED ON SITE BEFORE WORK COMMENCES. FIGURED DIMENSIONS SHALL BE TAKEN IN PREFERENCE TO SCALE DIMENSIONS.
3. PROJECT ENGINEER , SITE ENGINEER , CONTRACTORS & THE SUB CONTRACTORS ARE TO VERIFY THE FOLLOWINGS AT SITE:-
  - a) REINFORCEMENT POSITION.
  - b) DEVELOPMENT LENGTH.
  - c) CLEAR COVER.
  - d) CONCRETE MIX RATIO.
  - e) ALL DIMENSIONS AND LEVEL.
4. PROJECT ENGINEER , SITE ENGINEER , CONTRACTORS & THE SUB CONTRACTORS IS TO NOTIFY THE CONSULTANT ABOUT ANY DISCREPANCIES / DIFFERENCES CONTAINED IN THE DRAWING (IN RELATION TO OTHER DRAWINGS) BEFORE BEGINNING THE WORK COMMENCES.

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DRAWINGS AND SPECIFICATIONS AS INSTRUMENTS OF SERVICE ARE AND SHALL REMAIN THE PROPERTY OF ENGINEER / CONSULTANT / FIRM WHETHER THE PROJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT. THEY ARE NOT TO BE USED ON OTHER PROJECT OR EXTENSIONS TO THE PROJECT OR OTHER SIMILAR PROJECT EXCEPT BY WRITTEN AGREEMENT AND WITH APPROPRIATE PROFESSIONAL FEES TO THE CONSULTANT.

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																			DATE	SHEET NO
																			November.2021	01

# STRUCTURAL DESIGN CONSIDERATIONS

## 1. GENERAL NOTE FOR DESIGN

- 1.1 DESIGN METHOD USED IS USD ACCORDING TO BANGLADESH NATIONAL BUILDING CODE (BNBC) 2020
- 1.2 ALL THE STRUCTURAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DRAWINGS,
- 1.3 BASIC WIND SPEED = 65.7 m/s
- 1.4 SEISMIC ZONE - 02

## 2. MATERIAL SPECIFICATION:

### 2.1 CONCRETE

- a) TYPE: ALL CONCRETE COMPRESSIVE STRENGTH FOR 28 DAYS CONSIDERED AS FOLLOWS:
  - 1)  $f'c = 36 \text{ MPa}$  at 28 DAYS CYLINDER STRENGTH USING STONE CHIPS  
(TO BE DETERMINED BY TRIAL MIX DESIGN)  
FOR MAT, COLUMN, LIFT CORE, SHEAR WALL, BEAM, SLAB & U.G.W.R UP TO 5TH FLOOR
  - 2)  $f'c = 32 \text{ MPa}$  at 28 DAYS CYLINDER STRENGTH USING STONE CHIPS  
(TO BE DETERMINED BY TRIAL MIX DESIGN) FOR MAT, COLUMN, LIFT CORE, SHEAR WALL, BEAM, SLAB, MACHINE ROOM & O.H.W.T FROM 5TH FLOOR TO ROOF
  - 3)  $f'c = 21 \text{ MPa}$  at 28 DAYS CYLINDER STRENGTH USING STONE CHIPS  
(TO BE DETERMINED BY TRIAL MIX DESIGN)  
(FOR R.C.C PILE)
  - 4)  $f'c = 18 \text{ MPa}$  AT 28 DAYS CYLINDER STRENGTH USING GAS BURN BRICK CHIPS  
MIX RATIO 1:2:4 (FOR LINTEL FALSE SLAB, BOUNDARY WALL, PARAPET, DROP WALL.)
- b) MINIMUM CYLINDER STRENGTH BASED ON CYLINDER TEST OF DIAMETER  $D = 100$  or  $150 \text{ mm}$  & HEIGHT  $200$  or  $300 \text{ mm}$ 
  - I) 28 DAYS STRENGTH AS SPECIFIED IN 2.1(a)
  - II) 7 DAYS STRENGTH = 70% OF THE 28 DAYS STRENGTH.
- c) CURING OF R.C.C WORK:
  - I) CURING TIME MINIMUM 28 DAYS
  - II) METHOD OF CURING:
    - \* HORIZONTAL SURFACE - BY PONDING OF WATER

- \* OTHER SURFACES-BY WRAPPING MOIST JUTE FABRIC AND SPRINKLING WATER BY HOSE PIPE FREQUENTLY.
- \* USE CONCRETE ADMIXTURE FOR U.G.W.R, O.H.W.T. & PHEREPERIAL RETAINING WALL

### 2.2 CEMENT

As per BDS EN 197-1:2003, Type CEM-I or CEM-II/A-M or CEM-II/A-V or CEM-II/A-W

TESTS: i) Setting time & soundness by EN 196-3, ii) Strength by EN 196-1, iii) Fineness by EN 196-6.

### 2.3 CONCRETE AGGREGATE

a) FINE AGGREGATES:

- I) 100% Sylhet Sand (F.M 2.5min.) For All Structural Concrete.
- II) 100% Local Sand (FM-1.7) for Non-Structural Component e.g. Floor Finish, Plastering Work.

b) COURSE AGGREGATES:

CRUSHED NATURAL STONE CHIPS WITH MAXIMUM SIZE OF 20MM. ALL COARSE AGGREGATE MUST BE WELL GRADED AND FREE FROM DUST. AGGREGATE GRADING SHALL MEET THE REQUIREMENTS OF ASTM C33/C33M-13 SPECIFICATION. LOSS ANGELES ABRASION VALUE SHALL NOT EXCEED 30% (FOR GRADING B) TESTS: I) SIEVE ANALYSIS, ASTM C136-14 II) L.A. ABRASION TEST, ASTM C131-14.

### 2.4 WATER

POTABLE WATER TO BE USED IN CONCRETE MIX

### 2.5 STEEL REINFORCEMENT

- a) ALL REINFORCEMENTS ARE 400 Mpa HIGH STRENGTH DEFORMED BAR.
- b) YIELD STRENGTH OF STEEL  $f_y = 400 \text{ Mpa}$  CONFORMED TO ONE OF THE FOLLOWING SPECIFICATIONS: i) BDS 1313 : 1991, ii) ASTM A615M
- c) TESTS: i) UNIT WEIGHT, YIELD STRENGTH, ULTIMATE STRENGTH AND ELONGATION BY ISO-6892-1-2009, ii) BEND TEST BY ISO-7438-2005, iii) DEFORMATION MEASUREMENT.

### 3. MORTER RATIO:

- a) PLASTER MORTAR RATIO : 1:4
- A) BRICK WORK MORTAR RATIO : 1:4

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#### 4. SCHEDULE FOR REMOVING FORM WORK:

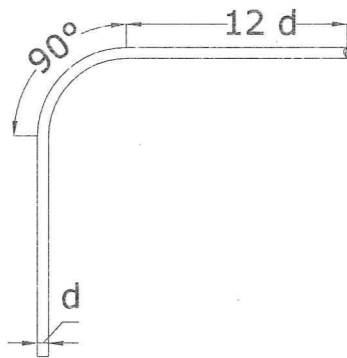
- a) VERTICLE SIDES
  - i) FOR BEAM = 3 weeks.
  - ii) COLUMN = 72 hr.
- b) BOTTOM SIDES : ALLOW MINIMUM ONE DAY PER FEET OF BEAM SPAN LENGTH BUT NOT LESS THAN 21 DAYS.
- c) SLAB : MINIMUM 28 DAYS.

#### 5. DETAILS

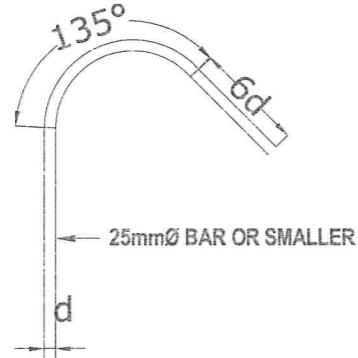
##### 5.1 HOOKS OF REBAR

FOR ALL RE-BAR: PROVIDE 90° STANDARD HOOKS (L-BENT) IF NOT SHOWN IN THE DRAWINGS.

##### i) MAIN REINFORCEMENT :



##### ii) STIRRUPS AND TIES :



##### 5.2 SPACER BARS

TO SUPPORT SECOND LAYER BARS IN BEAMS / SLABS, USE Ø25 SPACER BARS @ 750mm WHERE REQUIRED.

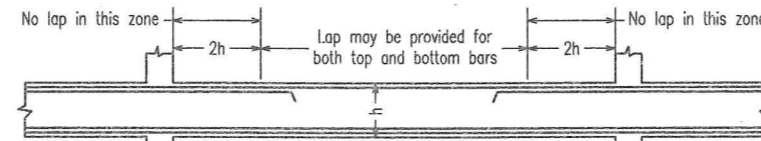
##### 5.3 CHAIRS

USE CHAIRS OF NECESSARY DIMENSION MADE OF Ø10/Ø12/Ø16 BAR TO SUPPORT TOP BARS @750mm c/c.

#### 6. LAP LOCATION:

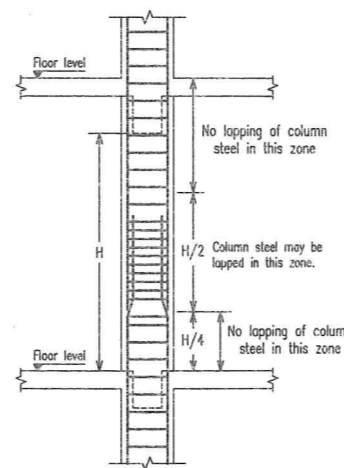
- a) FOR BEAM TOP & BOTTOM BAR, LAP NOT TO BE PROVIDED WITHIN 2 TIMES THE HEIGHT OF BEAM.
- b) NOT MORE THAN 50% OF THE BARS SHALL BE SPLICED AT ONE PLACE
- c) LAP SPLICES ARE TO BE CONFINED BY HOOPS WITH MAXIMUM SPACING OR PITCH OF d/4 OR 100mm WHERE d IS THE EFFECTIVE DEPTH OF THE BEAM.

LAP SPLICE LOCATION IN BEAMS:



Not more than 50% of the bars shall be spliced at one place of the beam. Lap splices are to be confined by hoops/stirrups with maximum spacing of 125mm.

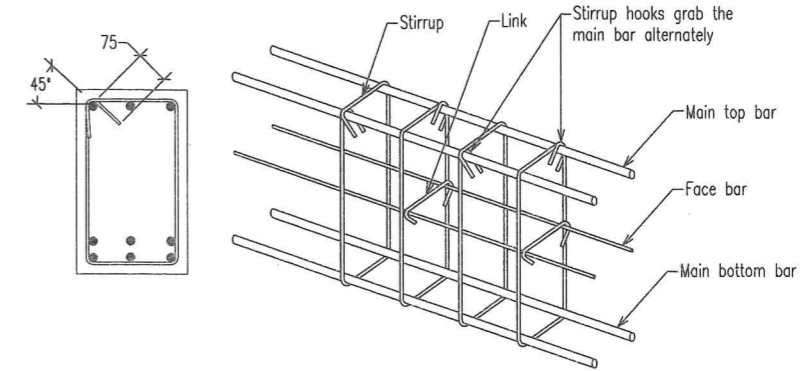
LAP SPLICE LOCATION IN COLUMNS:



Lap splices are to be confined by hoops/ties with maximum spacing of 125mm.

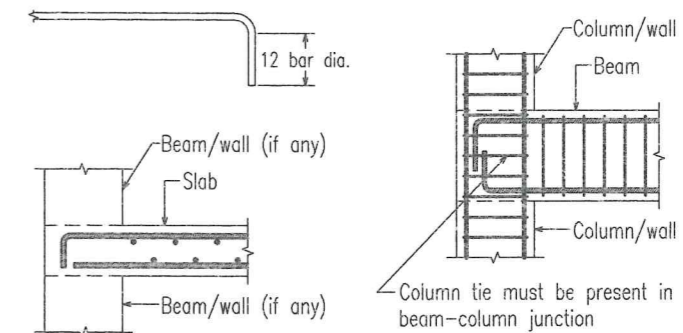
#### 7. BEAM STIRRUP

Hooks in beam stirrups shall be bent 45° inwards and length of the hook shall be minimum 75mm as shown below. Stirrups shall be arranged such that corner hooks grab the main reinforcement in alternate fashion.



#### 8. END ANCHORAGE FOR HORIZONTAL REINFORCEMENT (IN BEAM, SLAB, MAT ETC).

90° hooks shall be provided for i) all main bars of beams (top and bottom) which terminate into column or walls or other beams. ii) slab top bars terminating into supporting beams or walls. iii) mat reinforcement terminating at the periphery. For all cases, the length of the hook shall be 12 times the bar diameter (12d).



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**11. EARTH QUAKE CONSIDERATION:**

**a) LAP LENGTH & DEVELOPMENT LENGTH :**

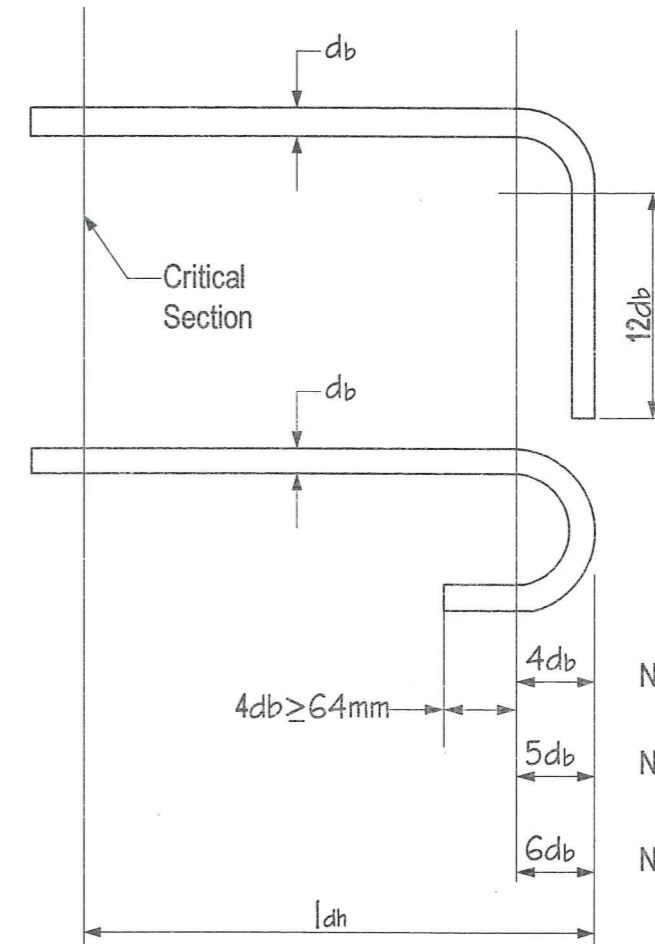
UNLESS OTHERWISE MENTIONED IN THE DRAWINGS, LAP LENGTH OF BARS SHALL BE :

$f_c' = 4600 \text{ psi (32 Mps)}$  and  $f_y = 60000 \text{ psi (414 Mpa)}$

Class-B Lap Splice Length for Deformed Ms Rebar (rounded to nearest 25mm)

Development Length of Hooked Deformed Bars in Tension,  $l_{dh}$  (rounded to nearest 25mm)

Bar dia mm	Tension rebar			$l_{dh}$ mm
	Top bars in beam and mat; top bars in slab of thickness more than 300mm	Bottom bars in slab, beam and mat; top bar in slab of thickness less than 300mm	Vertical compression rebar in column and shear wall	
8	475	375	300	150
10	600	450	300	150
12	725	550	350	150
16	950	725	475	175
20	1200	925	600	250
22	1650	1275	650	300
25	1875	1450	750	350
28	2100	1600	850	425
32	2400	1850	950	525
36	2700	2075	1075	625

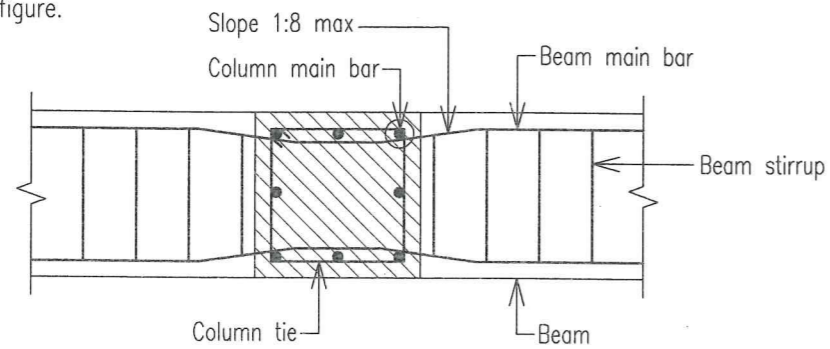


No. 3 through No.8  
No. 9, No.10, and No.11  
No. 14 and No.18

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12. AVOIDING CONFLICT BETWEEN BEAM AND COLUMN REINFORCEMENT

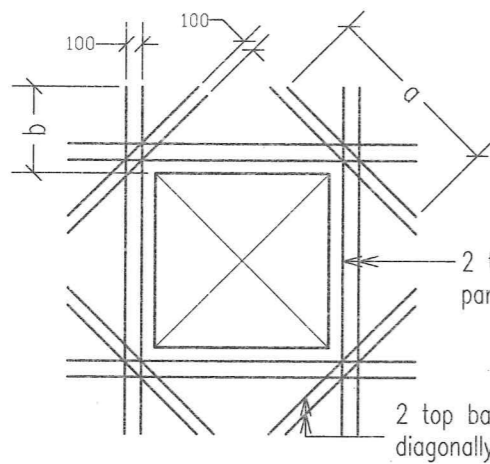
If conflict arises between beam and column or wall reinforcement when beam steel enters or passes through column, the beam reinforcement may be horizontally bent inwards into the column as shown in the following figure.



PLAN SECTION OF BEAM COLUMN JOINT

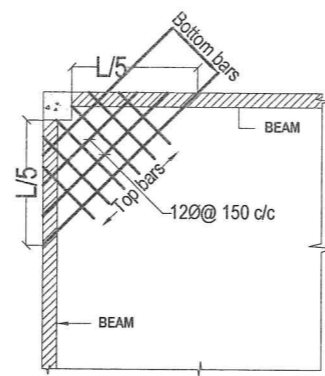
13. REINFORCEMENT DETAILING AROUND VOID/OPENING

Reinforcement details around void/opening shall be as shown in figure below. The detailing is valid for maximum void size of 900x900. For void/opening of larger size contact the consultant.



	Void/opening size less than 450	Void/opening size between 450 ~ 900
Dim. a	900	1500
Dim. b	600	900
Bar size	Ø16	Ø20

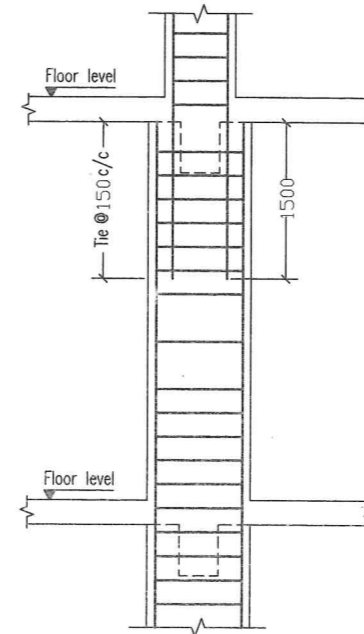
c) SPECIAL REINFORCEMENT AT EXTERIOR CORNERS OF BEAM SUPPORTED TWO-WAY SLAB :



L = Longer clear span

14. COLUMN OFFSET DETAIL:

When column size is reduced the transition of column main reinforcement from lower floor to upper floor shall be detailed as shown below.

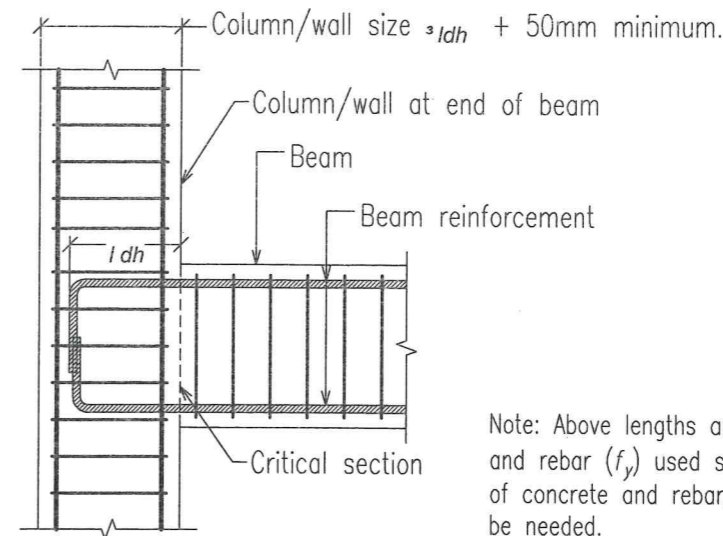


15. BRICK WORK:

All brick work shall use first class brick or as specified by the consultant. Mortar for brick work shall constitute 1:4 mix ratio (cement:sand). Mortar for plastering work shall be 1:4 mix ratio (cement:sand).

16. END ANCHORAGE OF BEAM REINFORCEMENT:

Minimum end anchorage length  $l_{dh}$  as shown below for different bar sizes must be maintained throughout.

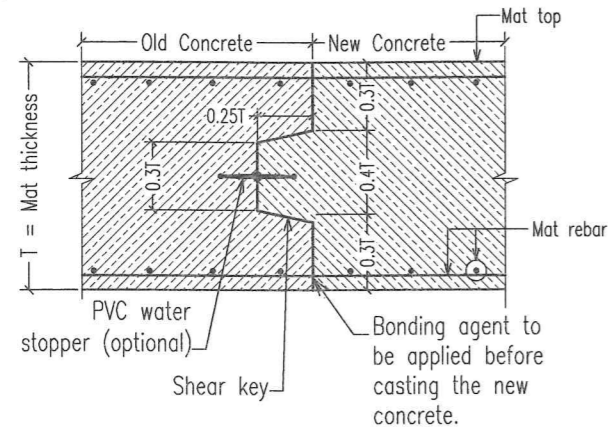


Note: Above lengths are derived for the type of concrete ( $f'_c$ ) and rebar ( $f_y$ ) used specifically in this project. For other types of concrete and rebar, recalculation of embedment length shall be needed.

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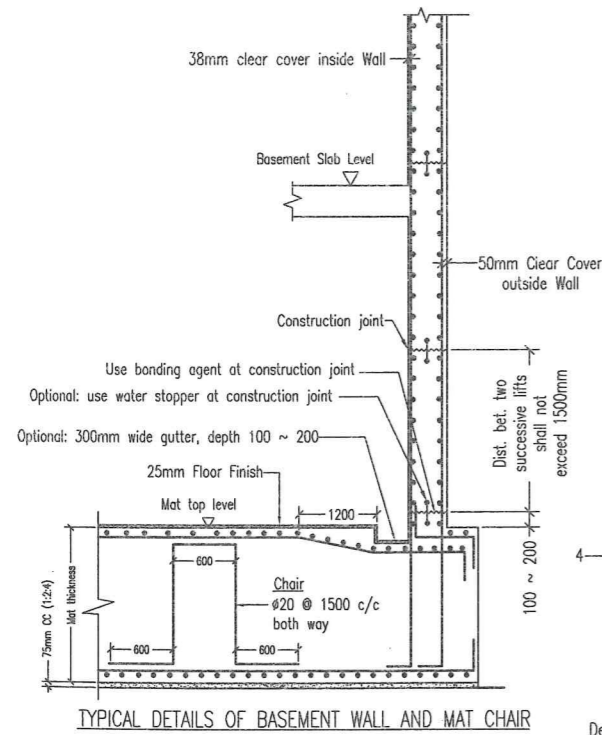
17. CONSTRUCTION JOINT IN MAT



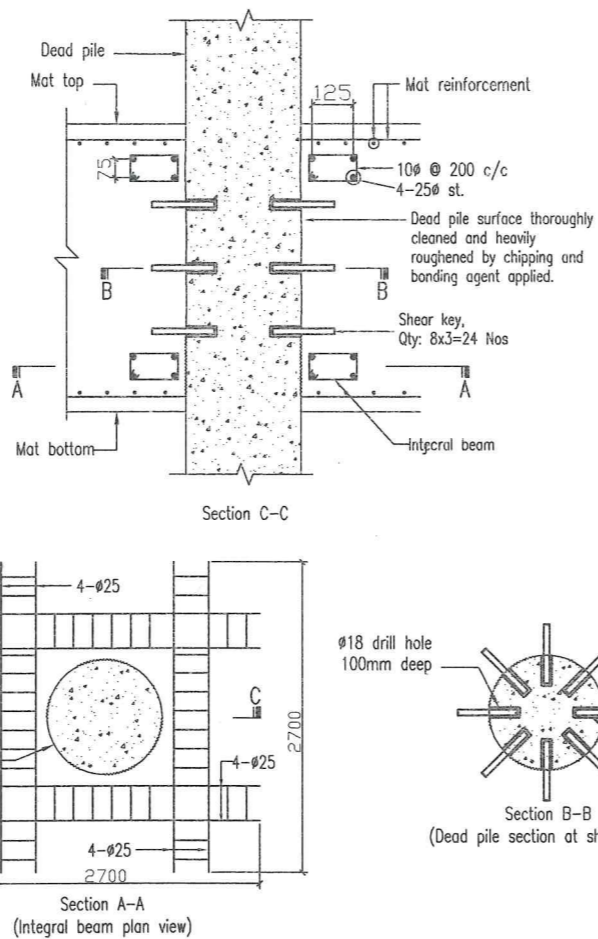
Notes on construction joint in mat

1. Construction joint shall be located midway between columns/shearwalls.
2. Shear key as shown in the Fig. at left shall be provided.
3. Optionally, a PVC water stopper as shown may be provided. Width of the stopper shall be a minimum 300mm for mat foundation.
4. Before casting the new concrete, the old surface must be thoroughly cleaned and heavily roughened by chipping.
5. An approved bonding agent shall be applied over the surface of the old concrete before the new concrete is cast.
6. Time difference between application of bonding agent and placing new concrete shall not exceed the limit prescribed by the manufacturer of bonding agent.
7. The contractor must ensure that the construction joint becomes fully sealed and no leakage of water occurs in future.

18. CONSTRUCTION JOINT IN CONCRETE WALL

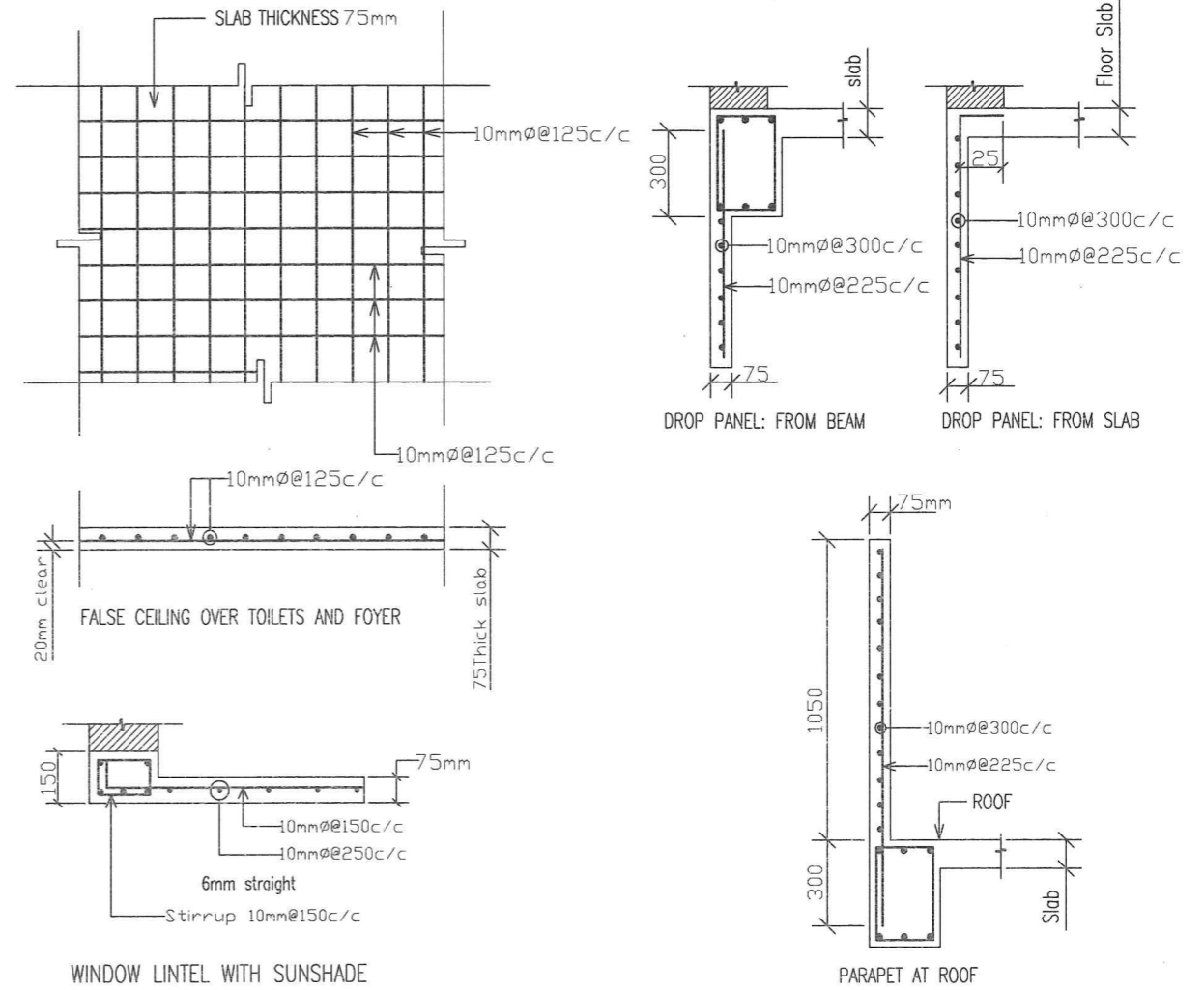


19. MAT REINFORCEMENT DETAILS AROUND DEAD PILE

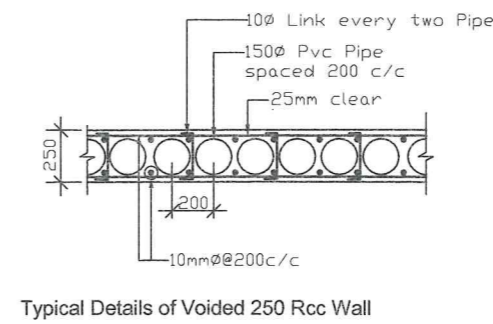
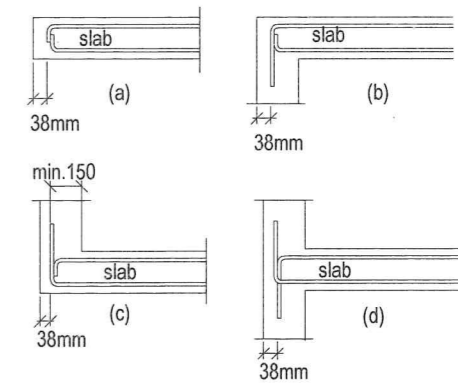


20. MISCELLANEOUS STRUCTURAL DETAILS

The miscellaneous details shown below shall be followed wherever applicable unless otherwise mentioned elsewhere.

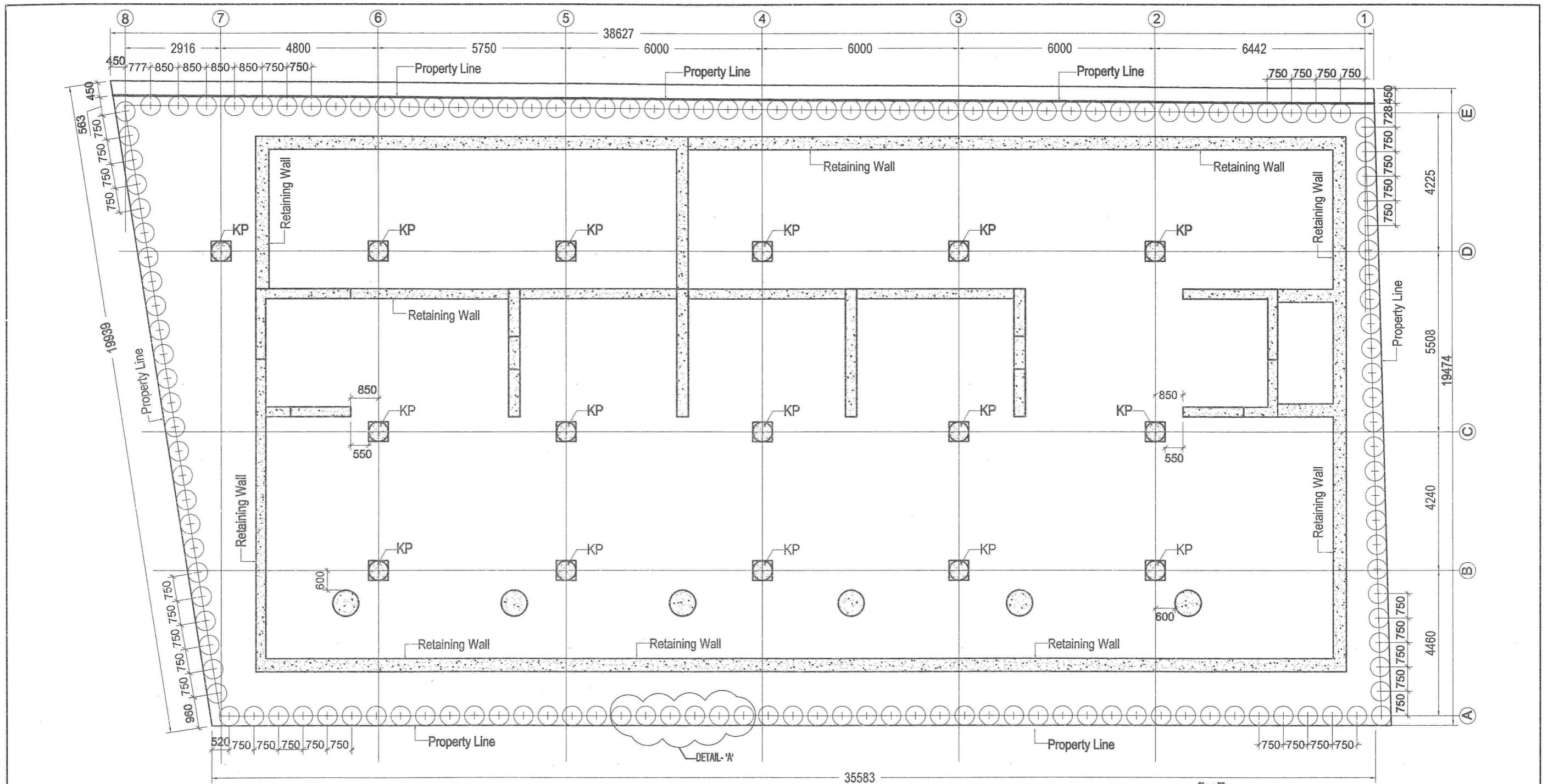


8. SLAB END REINFORCING DETAILS:

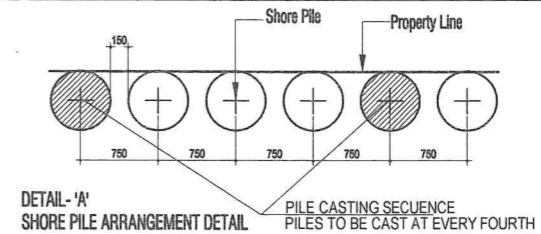


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Sher-E-Bangla Nagar, Agargaon, Dhaka, Bangladesh	Infrastructure Development Company Limited. UTC Building, 16th Floor, 8 Panthapath, Kawran Bazar, Dhaka-1215, Bangladesh.	House# 11, Road# 14, Suite# 2D Gulshan 1, Dhaka 1212, Bangladesh	SHAHLA KARIM KABIR (AS MEMBERSHIP NO. K-420) SUVRO SOVON CHOWDHURY (AS MEMBERSHIP NO. AC-562) SAIQA IQBAL (AS MEMBERSHIP NO. AH-802)	<i>Minhaz</i>	BHUIYAN A.R.M. RIYADH (AS MEMBERSHIP NO. AR-375) SK. ARIFUL HAQUE (AS MEMBERSHIP NO. AH-372)		<i>SAR</i>		<i>Mehmed</i>										November 2021	07





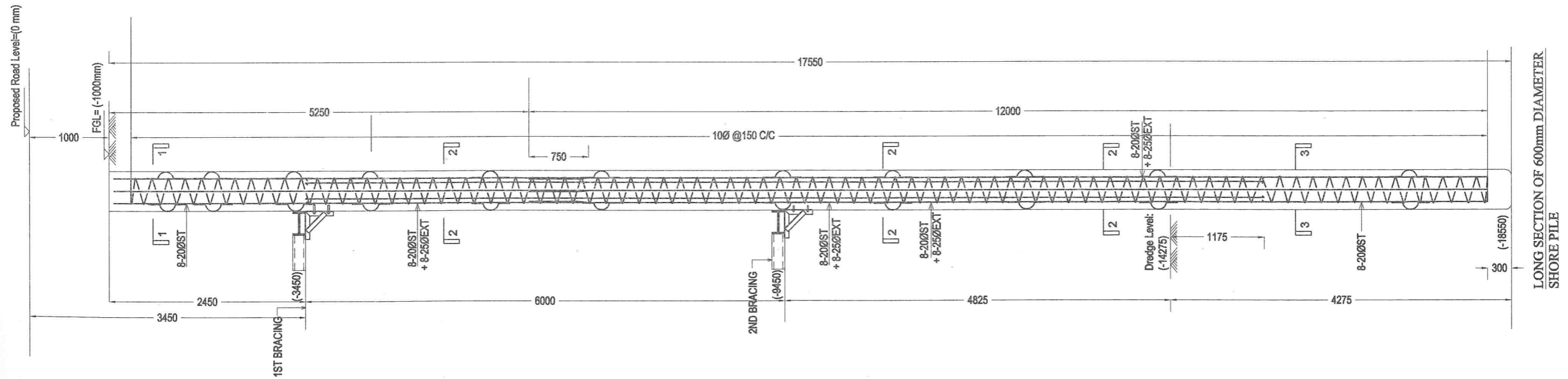
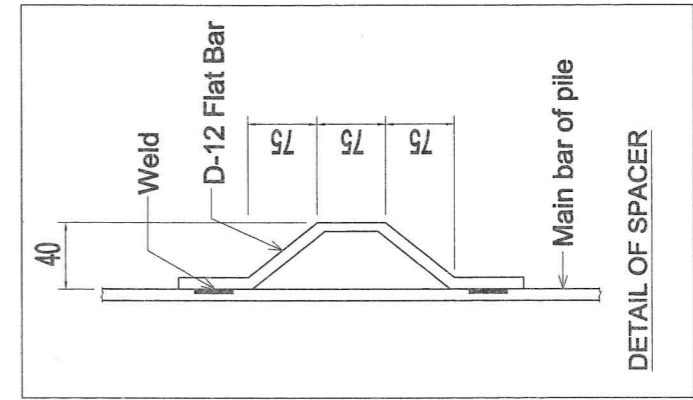
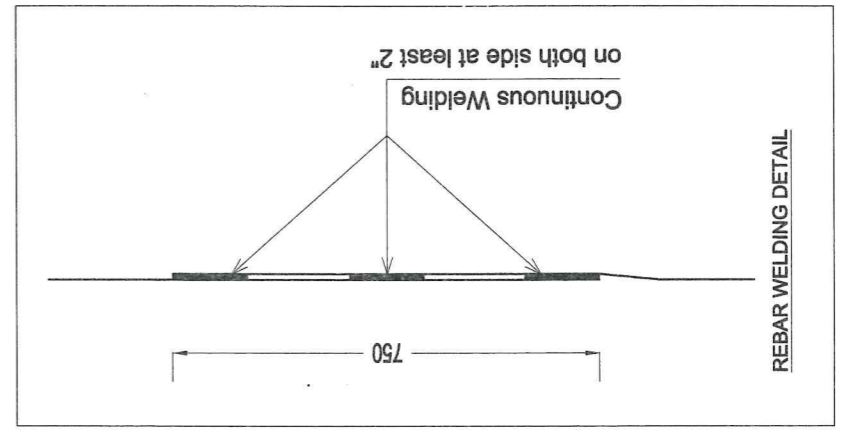
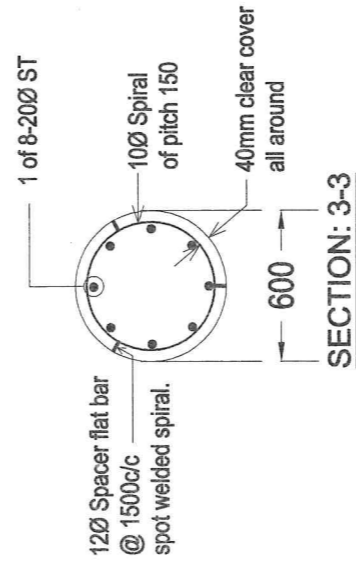
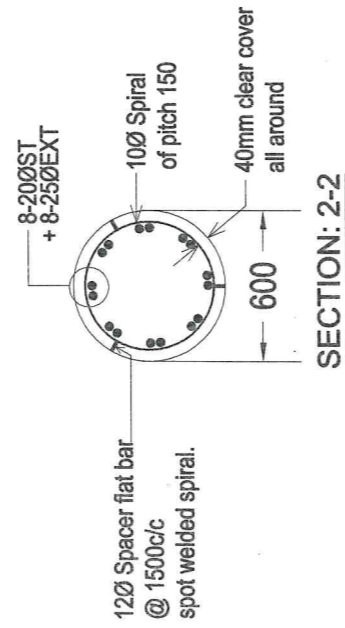
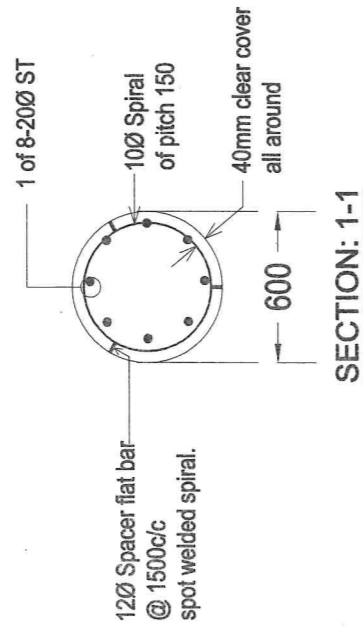
**SHORE PILE & KING POST LAYOUT PLAN**



PROJECT	CLIENT	CONSULTANT	ARCHITECT	SIGNATURE	ASSOCIATE ARCHITECT	SIGNATURE	CHECKED BY	SIGNATURE	STRUCTURAL ENGINEER	SIGNATURE	MEP ENGINEER	SIGNATURE	CHECKED BY	SIGNATURE	ISSUED FOR	COMMENTS	NOTES:	COPYRIGHT:	DRAWING TITLE	CATEGORY
IDCOL GREEN TOWER Sher-E-Bangla Nagar, Agargaon, Dhaka, Bangladesh	IDCOL Infrastructure Development Company Limited. UTC Building, 16th Floor, 8 Panthapath, Kawran Bazar, Dhaka-1215, Bangladesh.	STUDIO MORPHOGENESIS LTD. House# 11, Road# 14, Sub# 2D Gulshan 1, Dhaka 1212, Bangladesh	MINHAZ BIN GAFFAR (IAB MEMBERSHIP NO. G-09) (TEAM LEADER) SHAHLA KARIM KABIR (IAB MEMBERSHIP NO. K-09) SUVRO SOVON CHOWDHURY (IAB MEMBERSHIP NO. JC-09) SAIDA IQBAL (IAB MEMBERSHIP NO. AI-09)	<i>[Signature]</i>	HOSNI MOBARAK (IAB MEMBERSHIP NO. M-129) BHUIYAN A.R.M. RIYADH (IAB MEMBERSHIP NO. AR-378) SK. ARIFUL HAQUE (IAB MEMBERSHIP NO. AH-372)	<i>[Signature]</i>	MD. SHAMSUL ALAM (IAB MEMBERSHIP NO. F-073) (CHECKED BY)	<i>[Signature]</i>	ENGR. MAHMUDUR RAHMAN (IAB MEMBERSHIP NO. R-750)	<i>[Signature]</i>	MANASH KUMAR MITRA (IAB MEMBERSHIP NO. F-750)	<i>[Signature]</i>	MAIN TEXT (SUB TEXT)		CONSTRUCTION <input checked="" type="checkbox"/>	THIS NOTE IS VALID FOR DRAWINGS RELATED TO THIS PROJECT. PLEASE DO NOT SCALE FROM THIS DRAWING. 2. CONTRACTORS AND SUB-CONTRACTORS ARE TO VERIFY ALL DIMENSIONS AT THE SITE. 3. THE CONTRACTOR IS TO NOTIFY THE CONSULTANT ABOUT ANY DISCREPANCIES OR DIFFERENCES CONTAINED IN THE DRAWING (IN RELATION TO OTHER DRAWINGS) BEFORE BEGINNING WORK.	DRAWINGS AND SPECIFICATIONS ARE INSTRUMENTS OF SERVICE AND SHALL REMAIN THE PROPERTY OF ARCHITECT / CONSULTANT / FIRM WHETHER THE PROJECT WHICH THEY ARE MADE IS EXECUTED OR NOT. THEY ARE NOT TO BE USED ON OTHER PROJECTS OR EXTENSIONS TO THE PROJECT EXCEPT BY WRITTEN AGREEMENT AND WITH APPROPRIATE PROFESSIONAL FEE TO THE ARCHITECT [Article 7, Condition for engagement of Architects, IAB Rules & Regulations]		November, 2021	08

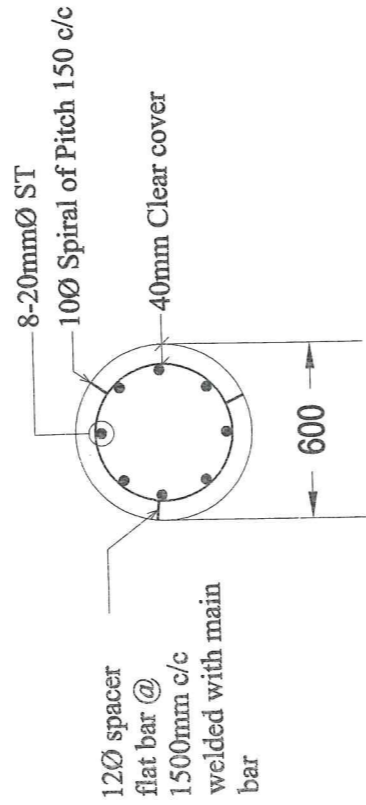


PILE ID	PILE LENGTH	REBAR DIA	REBAR NO.	REBAR LENGTH
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		250 extra bar	8	12m

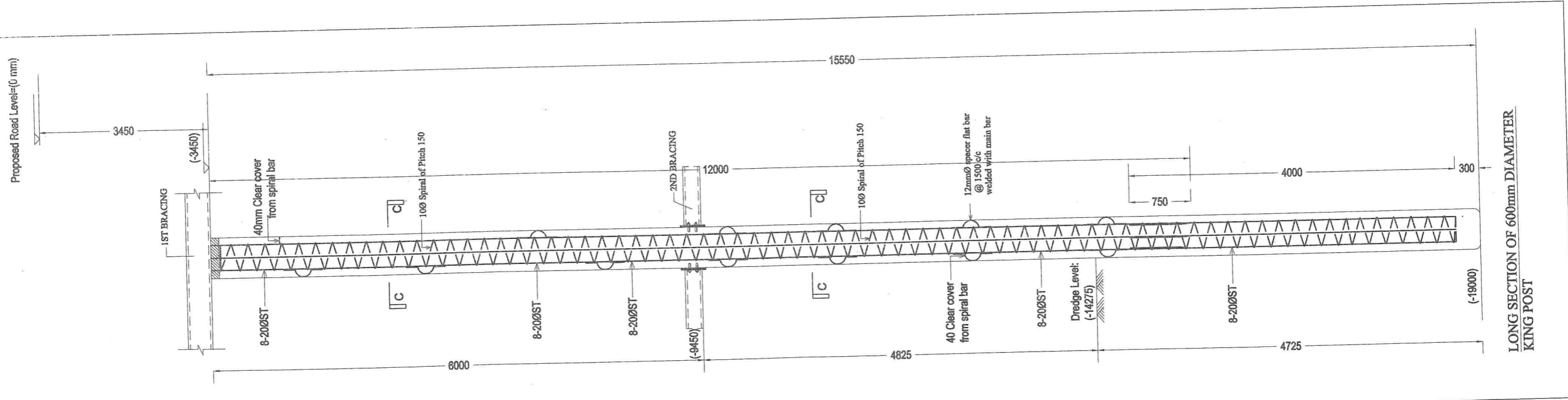
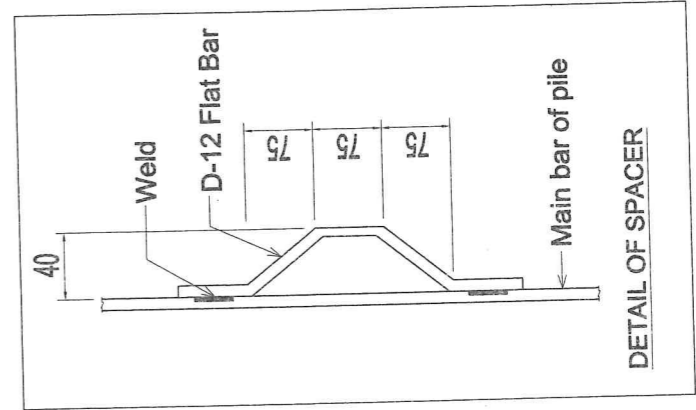
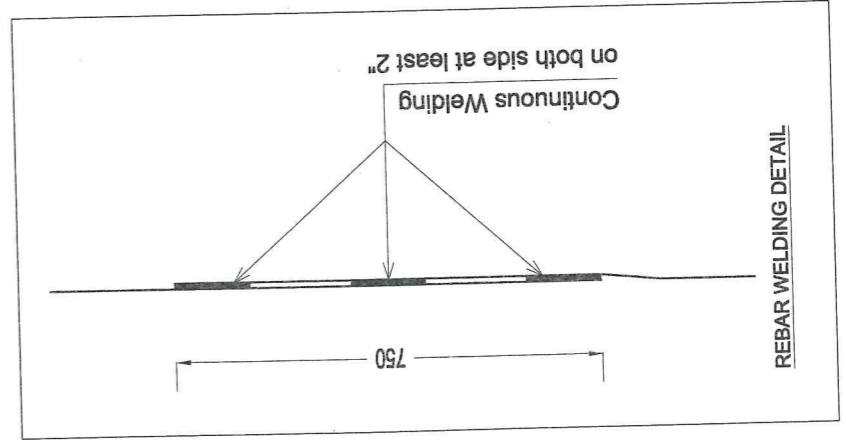


PROJECT	CLIENT	CONSULTANT	ARCHITECT	SIGNATURE	ASSOCIATE ARCHITECT	SIGNATURE	CHECKED BY	SIGNATURE	STRUCTURAL ENGINEER	SIGNATURE	MEP ENGINEER	SIGNATURE	CHECKED BY	SIGNATURE	ISSUED FOR	COMMENTS	NOTES	COPYRIGHT	DRAWING TITLE	CATEGORY	
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																			DATE	SHEET NO	
																				November.2021	09

PILE ID	PILE LENGTH	REBAR DIA	REBAR NO.	REBAR LENGTH
KP	15.55 m	20Ø main bar	8	12m
		20Ø main bar	8	4m



SECTION C-C



PROJECT	CLIENT	CONSULTANT	ARCHITECT	SIGNATURE	ASSOCIATE ARCHITECT	SIGNATURE	CHECKED BY	SIGNATURE	STRUCTURAL ENGINEER	SIGNATURE	MEP ENGINEER	SIGNATURE	CHECKED BY	SIGNATURE	ISSUED FOR	COMMENTS	NOTES:	COPYRIGHT:	DRAWING TITLE	CATEGORY
IDCOL GREEN TOWER Sher-E-Bangla Nagar, Agargaon, Dhaka, Bangladesh	IDCOL Infrastructure Development Company Limited. UTC Building, 10th Floor, 8 Panthapath, Kawran Bazar, Dhaka-1215, Bangladesh.	STUDIO MORPHOGENESIS LTD. House# 11, Road# 14, Sub# 2D Gulshan 1, Dhaka 1212, Bangladesh	MINHAZ BIN GAFFAR (IAB MEMBERSHIP NO. Q-009) (TEAM LEADER) SHAHLA KARIM KABIR (IAB MEMBERSHIP NO. A-008) SUVRO SOVON CHOWDHURY (IAB MEMBERSHIP NO. A-008) SAIQA IQBAL (IAB MEMBERSHIP NO. A-000)	<i>[Signature]</i>	HOSNI MOBARAK (IAB MEMBERSHIP NO. SA-128) BHUIYAN A.R.M. RIYADH (IAB MEMBERSHIP NO. AR-375) SK. ARIFUL HAQUE (IAB MEMBERSHIP NO. AH-372)	<i>[Signature]</i>	MD. SHAMSUL ALAM (IAB MEMBERSHIP NO. F-1275) (IAB MEMBERSHIP NO. F-1275)	<i>[Signature]</i>	ENGR. MAHMUDUR RAHMAN B.Sc Engg (Civil) MEP (IAB MEMBERSHIP NO. F-750)	<i>[Signature]</i>	MANASH KUMAR MITRA (IAB MEMBERSHIP NO. F-750)	<i>[Signature]</i>	MAIN TEXT (SUB TEXT)	<i>[Signature]</i>	CONSTRUCTION	THIS NOTE IS VALID FOR DRAWINGS RELATED TO THIS PROJECT. 1. PLEASE DO NOT SCALE FROM THIS DRAWING. 2. CONTRACTORS AND SUB-CONTRACTORS ARE TO VERIFY ALL DIMENSIONS AT THE SITE. 3. THE CONTRACTOR IS TO NOTIFY THE CONSULTANT ABOUT ANY DISCREPANCIES/ DIFFERENCES CONTAINED IN THE DRAWING (IN RELATION TO OTHER DRAWINGS) BEFORE BEGINNING WORK.	DRAWINGS AND SPECIFICATIONS ARE INSTRUMENTS OF SERVICE AND SHALL REMAIN THE PROPERTY OF ARCHITECT / CONSULTANT / FIRM WHETHER THE PROJECT WHICH THEY ARE MADE IS EXECUTED OR NOT. THEY ARE NOT TO BE USED ON OTHER PROJECTS OR EXTENSIONS TO THE PROJECT EXCEPT BY WRITTEN AGREEMENT AND WITH APPROPRIATE PROFESSIONAL FEE TO THE ARCHITECT. [Article-7, Condition for engagement of Architects, IAB Rules & Regulations]	LONG SECTION DETAILS OF KING POST	STRUCTURAL	
																			DATE	SHEET NO
																			November, 2021	10

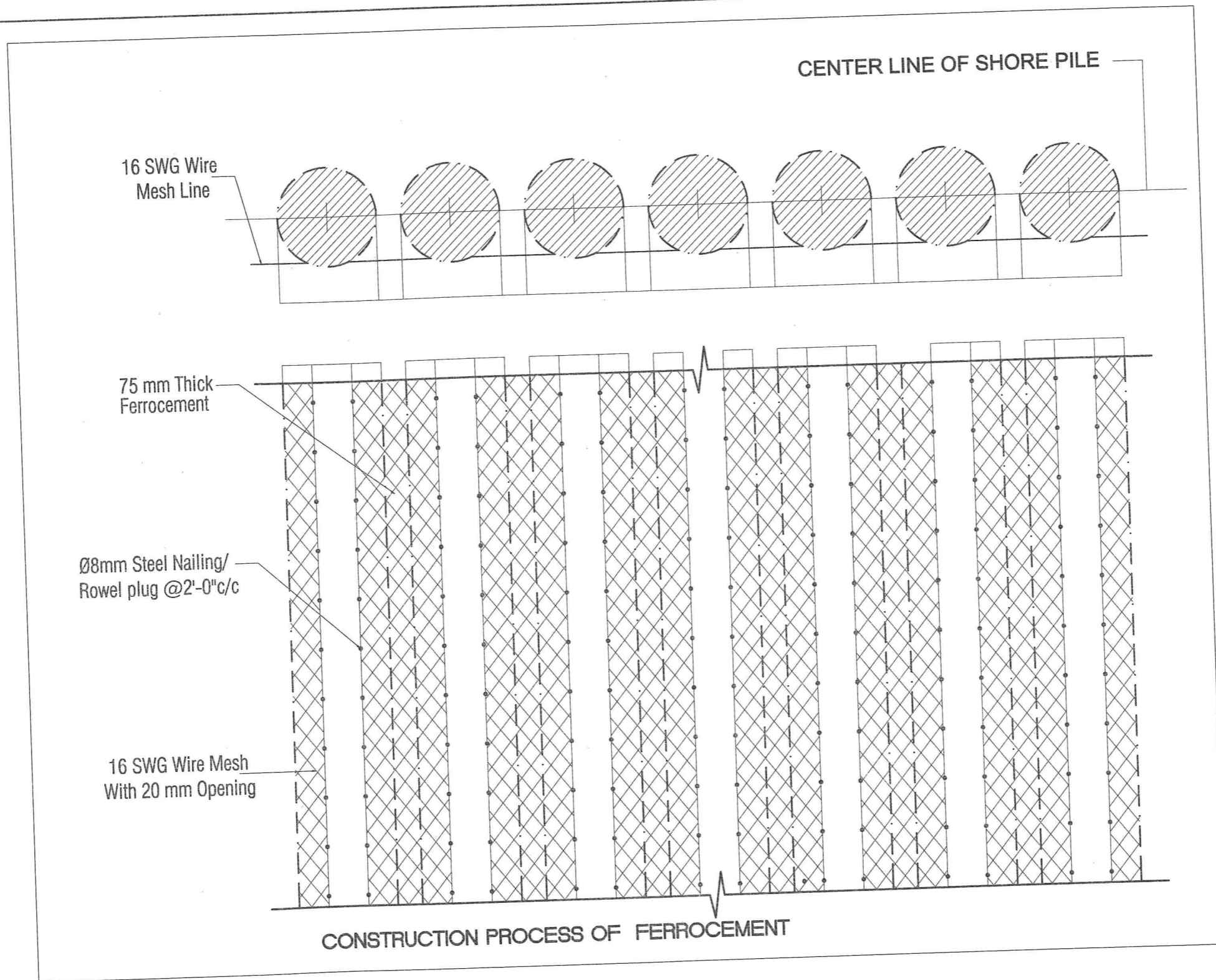


**NOTE :**

1. Concrete mix for shore piles shall be with 20mm down graded stone chips as coarse aggregate and 100% Sylhet sand of F.M. 2.2-2.5 as fine aggregates.
2. Minimum Cement content shall not less than 350 kg/m<sup>3</sup>(use mix design)
3. Minimum cylinder strength of concrete at 28 days shall be 24 Mpa
4. No boring operations shall be nearer than 3m (clear) from any pile in which concreting is in progress nor from completed pile until at least 72 hours have elapsed.
5. All pile bars shall be deformed having fy = 400 W .
6. Coarse Aggregate-Stone chips (Clean, well graded and SSD Condition Needs to be Assured).
7. Slump 150mm-200mm.  
( w/c ratio maximum 0.44, add admixture & retarder)
8. Pile casting shall be done by using tremie pipe of 200mm diameter.
9. End of tremie pipe shall always remain in green concrete by at least 2.5m .
10. Use polymer slurry/ bentonite slurry as per AASHTO so that slump does not fall below 120mm during casting( need slump retention test).

PROJECT	CLIENT	CONSULTANT	ARCHITECT	SIGNATURE	ASSOCIATE ARCHITECT	SIGNATURE	CHECKED BY	SIGNATURE	STRUCTURAL ENGINEER	SIGNATURE	MEP ENGINEER	SIGNATURE	CHECKED BY	SIGNATURE	ISSUED FOR	COMMENTS	NOTES	COPYRIGHT:	DRAWING TITLE	CATEGORY		
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																			November 2021	11		





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IDCOL GREEN TOWER Sher-E-Bangla Nagar, Agargaon, Dhaka, Bangladesh	IDCOL Infrastructure Development Company Limited. UTC Building, 16th Floor, 8 Panthapath, Kawran Bazar, Dhaka-1215, Bangladesh.	STUDIO MORPHOGENESIS LTD. House# 11, Road# 14, Sub# 20 Gulshan 1, Dhaka 1212, Bangladesh	MINHAZ BIN GAFFAR (IAB MEMBERSHIP NO. 0-026) (IAB ID:081) SHARILA KARIM KABIR (IAB MEMBERSHIP NO. K-026) SUVRO SOVON CHOWDHURY (IAB MEMBERSHIP NO. AC-026) SAIQA IQBAL (IAB MEMBERSHIP NO. AJ-026)	<i>[Signature]</i>	HOSNI MOBARAK (IAB MEMBERSHIP NO. M-126) BHUIYAN A.R.M. RIYADH (IAB MEMBERSHIP NO. AR-376) S.K. ARIFUL HAQUE (IAB MEMBERSHIP NO. AH-372)	<i>[Signature]</i>	MD. SHAMSUL ALAM (IAB MEMBERSHIP NO. F-127A, DAINACE-026)	<i>[Signature]</i>	ENGR. MAHMUDUR RAHMAN B.Sc Engg. IC&E MEB-1472020	<i>[Signature]</i>	MANASH KUMAR MITRA (IAB MEMBERSHIP NO. F-7504)	<i>[Signature]</i>	MAIN TEXT (SUB TEXT)	<i>[Signature]</i>	CONSTRUCTION <input checked="" type="checkbox"/>	THIS NOTE IS VALID FOR DRAWINGS RELATED TO THIS PROJECT. PLEASE DO NOT SCALE FROM THIS DRAWING. 2. CONTRACTORS AND SUB-CONTRACTORS ARE TO VERIFY ALL DIMENSIONS AT THE SITE. 3. THE CONTRACTOR IS TO NOTIFY THE CONSULTANT ABOUT ANY DISCREPANCIES/DIFFERENCES CONTAINED IN THE DRAWING (IN RELATION TO OTHER DRAWINGS) BEFORE BEGINNING WORK.	DRAWINGS AND SPECIFICATIONS ARE INSTRUMENTS OF SERVICE AND SHALL REMAIN THE PROPERTY OF ARCHITECT / CONSULTANT / FIRM WHETHER THE PROJECT WHICH THEY ARE MADE IS EXECUTED OR NOT. THEY ARE NOT TO BE USED ON OTHER PROJECTS OR EXTENSIONS TO THE PROJECT EXCEPT BY WRITTEN AGREEMENT AND WITH APPROPRIATE PROFESSIONAL FEE TO THE ARCHITECT. [Arch-7, Condition for engagement of Architects Section-3, IAB Rules & Regulations]	GENERAL NOTE	STRUCTURAL	
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																			November, 2021	12