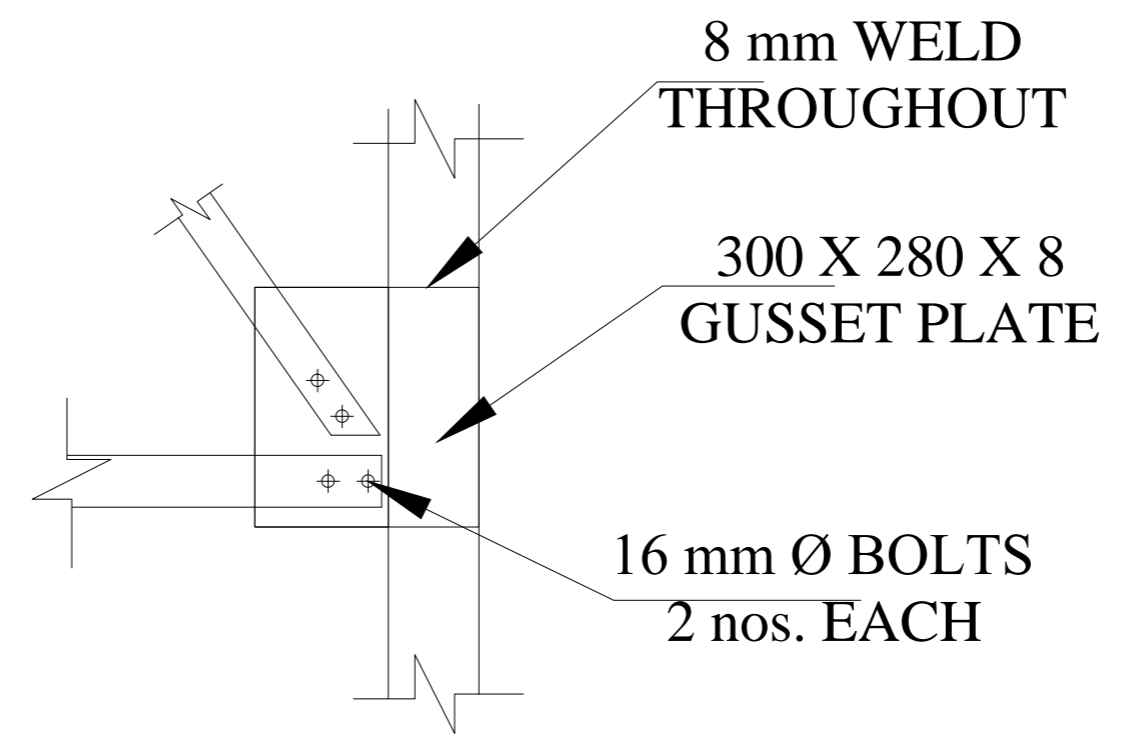
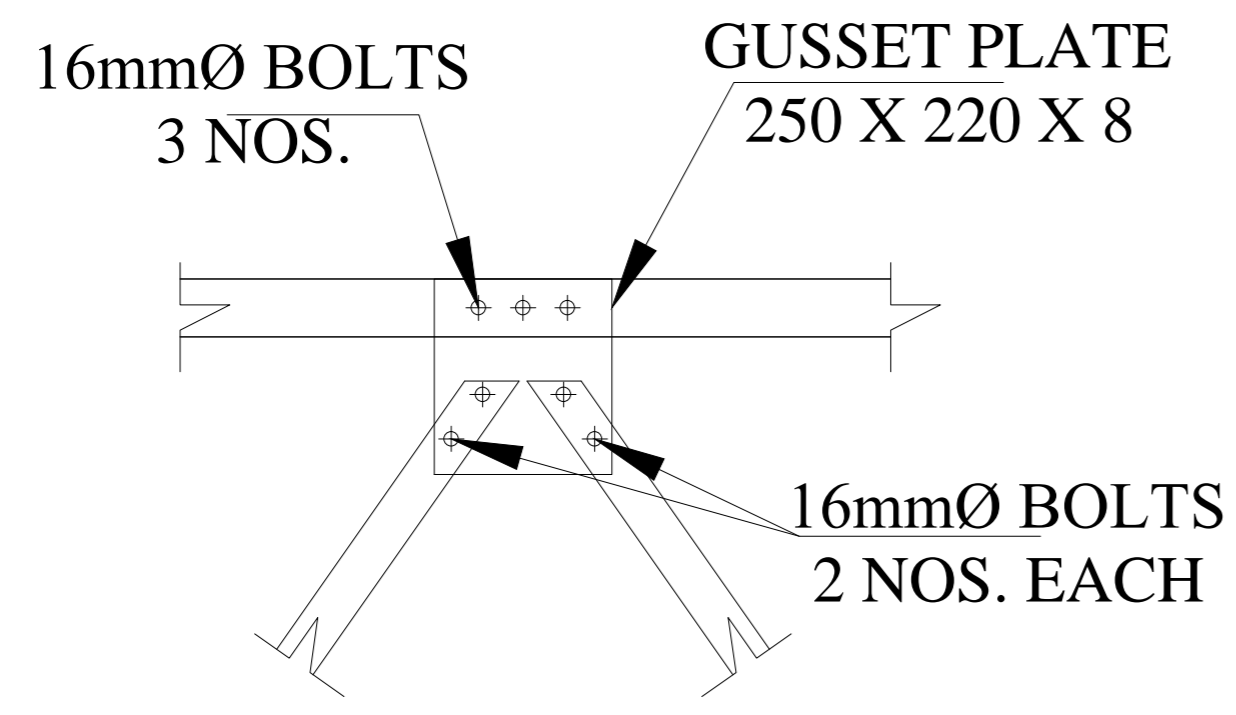


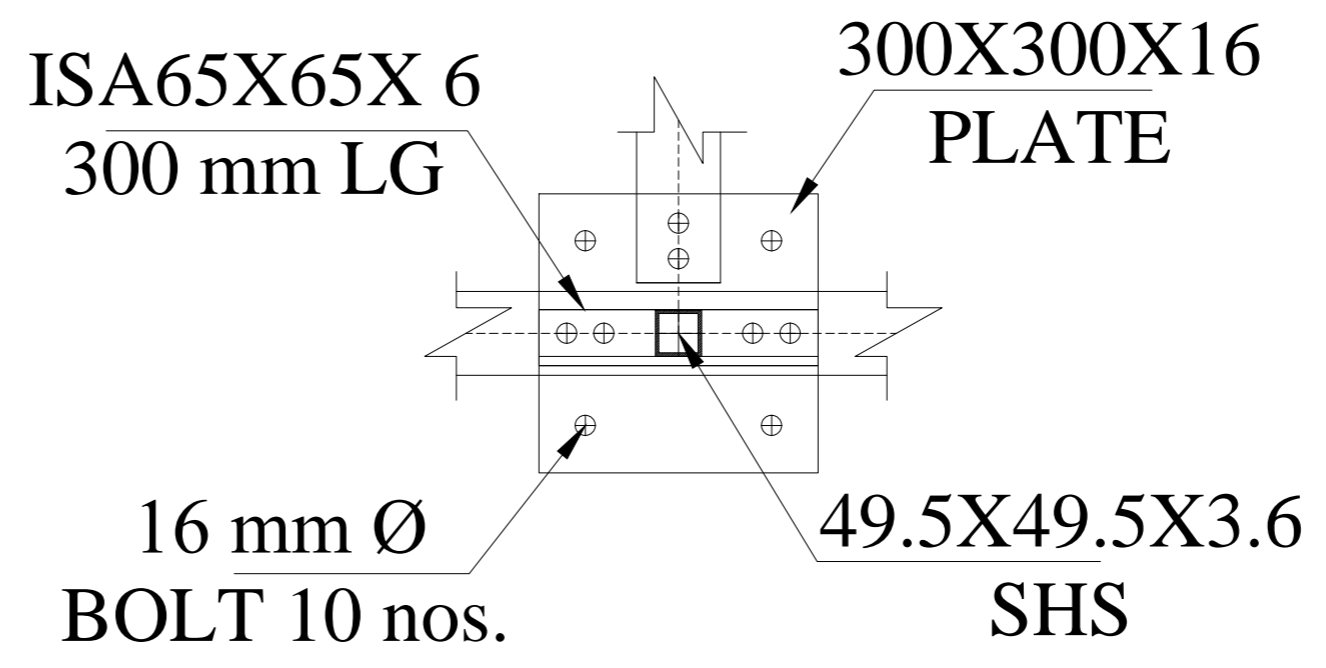
**DETAIL - 01**



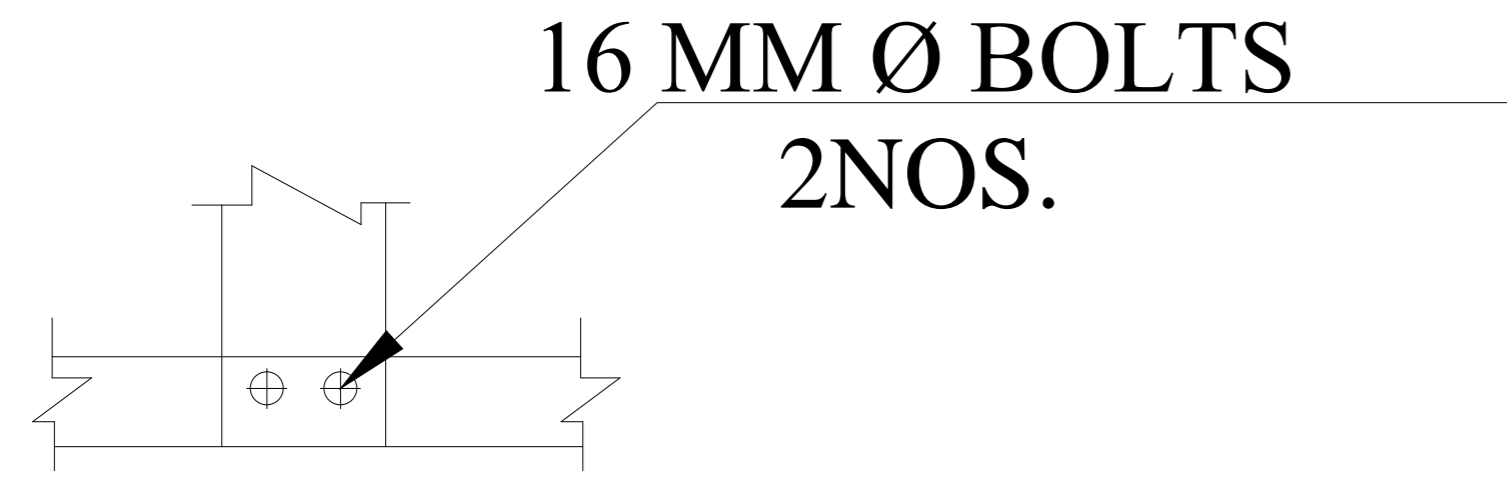
**DETAIL - 02**



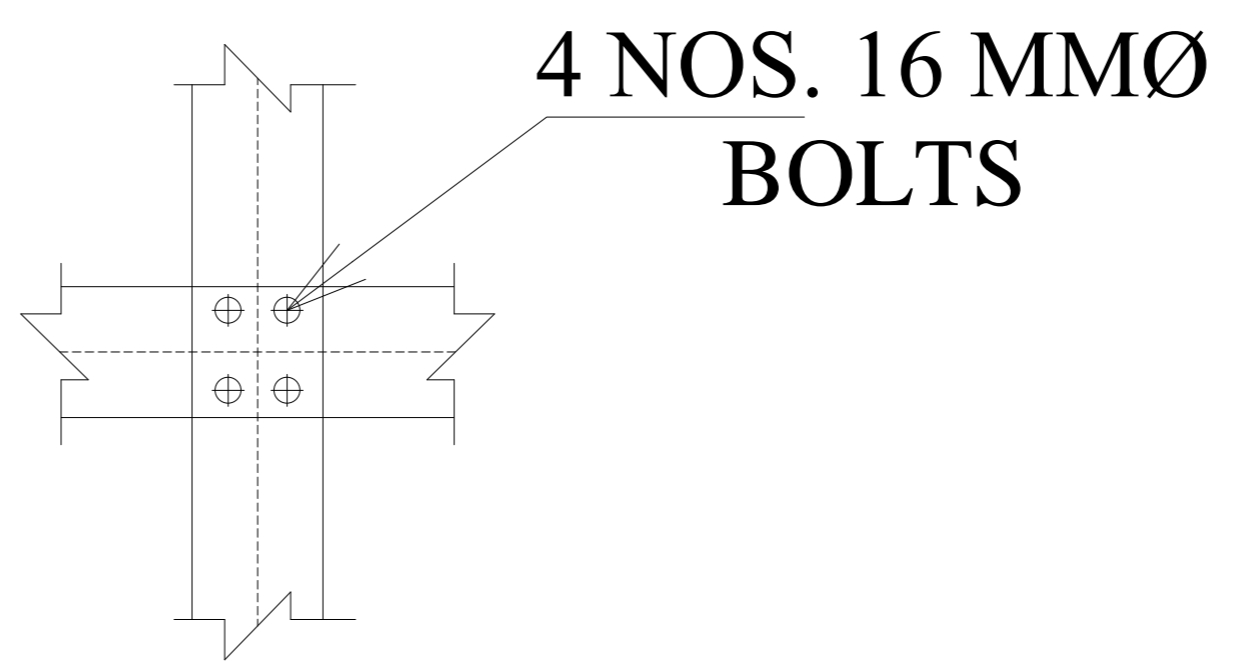
**DETAIL - 03**



**DETAIL - 04**



**DETAIL - 05**



**DETAIL - 06**

**GENERAL NOTES**

1. ALL DIMENSIONS ARE IN MM ONLY WRITTEN DIMENSION ARE TO BE FOLLOWED. DIMENSIONS IN STRUCTURAL DRAWING SHOULD NOT BE SCALED.
2. STRUCTURAL DRAWING SHOULD BE READ IN CONNECTION WITH RELEVANT ARCHITECTURAL DRAWING, IN CASE OF DISCREPANCY BETWEEN ARCHITECTURAL AND STRUCTURAL DRAWING SHOULD BE IMMEDIATELY BROUGHT TO NOTICE OF CONSULTANT.
3. M-20MIX- DESIGN MIX CONCRETE AND TMT BARS (FE-500) SHALL BE USED IN CONSTRUCTION.
4. TIES SHOULD BE BEND INSIDE WITH 10# LENGTH, ANGLE 135° IN BEAM & COLUMN.

**REINFORCING STEEL**

1. ALL REINFORCING STEEL WILL BE OF TESTED QUALITY CONFIRMING TO IS: 1786 LATEST.
2. REFER TO HIGH YIELD STRENGTH DEFORMED BARS WITH CHARACTERISTIC STRENGTH OF 500 N/SQ.MM.
3. THE CLEAR COVER TO REINFORCEMENT SHALL BE AS FOLLOWS:-  

FOUNDATION	50MM,	WALL	50 MM
COLUMNS	40MM,	FLOOR BEAM	30MM
GRADE/TIE BEAM	30MM,	SLABS	20MM*

\* COVER TO SECONDARY REINFORCEMENT ALSO SHALL NOT BE LESS THAN 20MM.
4. LAP LENGTH TO BE 50\*DIA OF BAR MINIMUM.
5. SLAB BARS IN SHORTER DIRECTION SHALL BE BELOW BARS FOR THE LONGER DIRECTION.
6. IN BEAMS, FIRST STIRRUP SHALL BE AT NO MORE THAN 50MM FROM FACE OF THE SUPPORTING MEMBER.
7. IN BEAMS TOP BARS ARE NOT TO BE SPLICED IN THE END QUARTERS OF THE SPAN, AND THE BOTTOM BARS ARE NOT TO BE SPLICED AT MIDDLE HALF OF THE SPAN.

**STEEL WORK**

1. USE ALL INDIAN STANDARD ROLLED SECTION.
2. IF THERE ANY JOINTS IN LONG MEMBERS NOT TO BE PROVIDED AT CENTER AND TO BE PROVIDED FOR FULL STRENGTH.
3. ALL EDGES AND ENDS TO BE MACHINE CUT.
4. ALL HOLES TO BE DRILLED (NOT PUNCHED) 1.5MM. LARGER IN DIAMETER THAN THAT OF BOLTS.
5. ALL CLEAT OF ANGLE SECTION TO BE ISA.
6. ALL WELDS TO BE PROVIDED (8MM. FILLET) FOR FULL STRENGTH.
7. ALL COVER & STIFFENING PLATE ARE OF 8 MM THICK.
8. FOLLOW - IS -800-2007 FOR STEEL WORK.
9. YIELD STRENGTH :-250 N/MM2
10. ALL COVER & STIFFENING PLATE ARE OF 6MM. THICK.
11. FOLLOW -IS -2062 FOR HOT ROLLED MEDIUM AND HIGH TENSILE STRUCTURAL STEEL SPECIFICATION.
12. FOLLOW- IS- 1161 FOR RECTANGULAR HOLLOW SECTION.

**PROJECT SPECIFICATION**

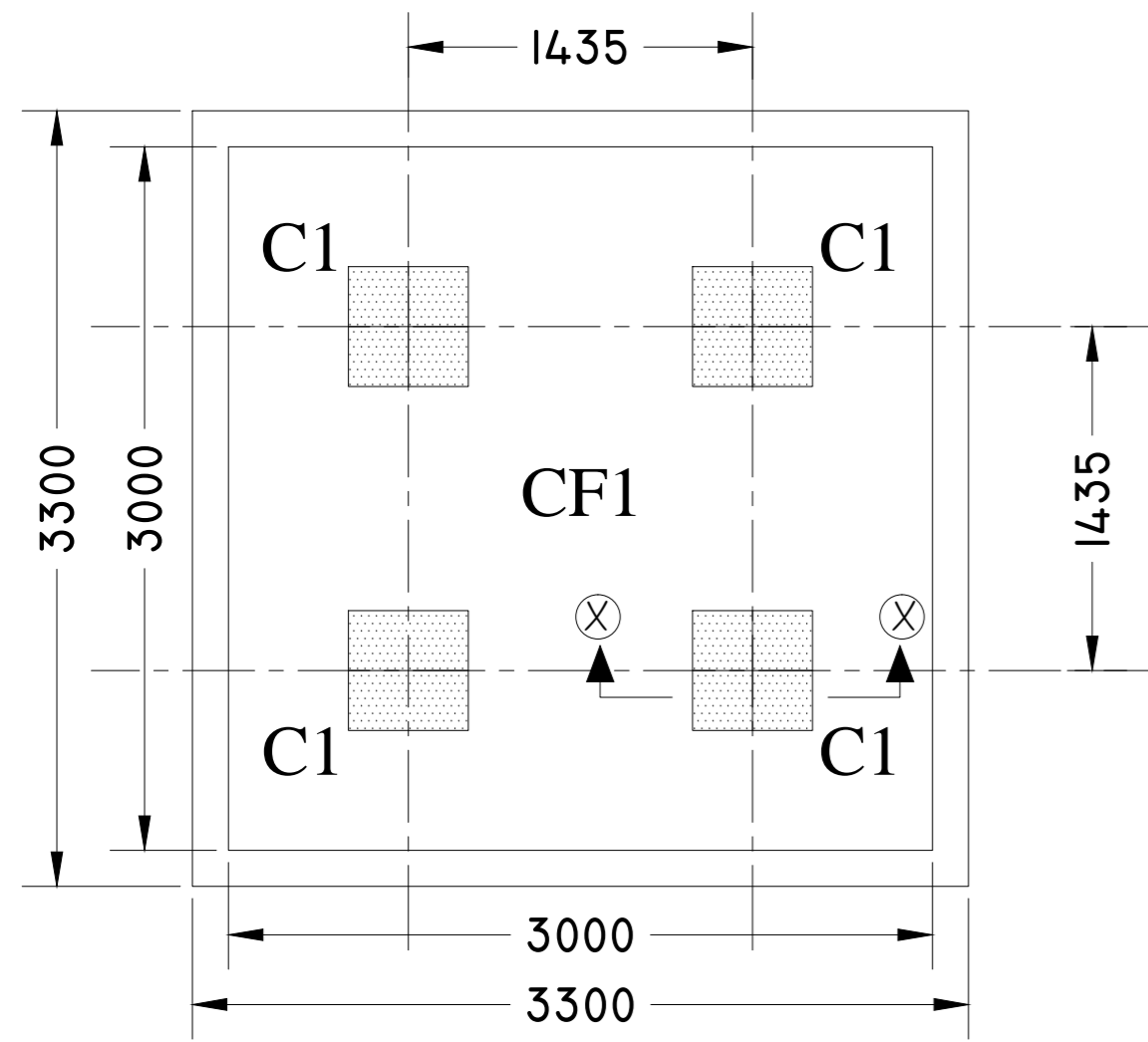
1. THE NET SAFE BEARING CAPACITY OF SOIL IS TAKEN AS 9 TON/M2 AT 2.00m DEPTH FROM THE NGL.

**SIGNING AUTHORITY**

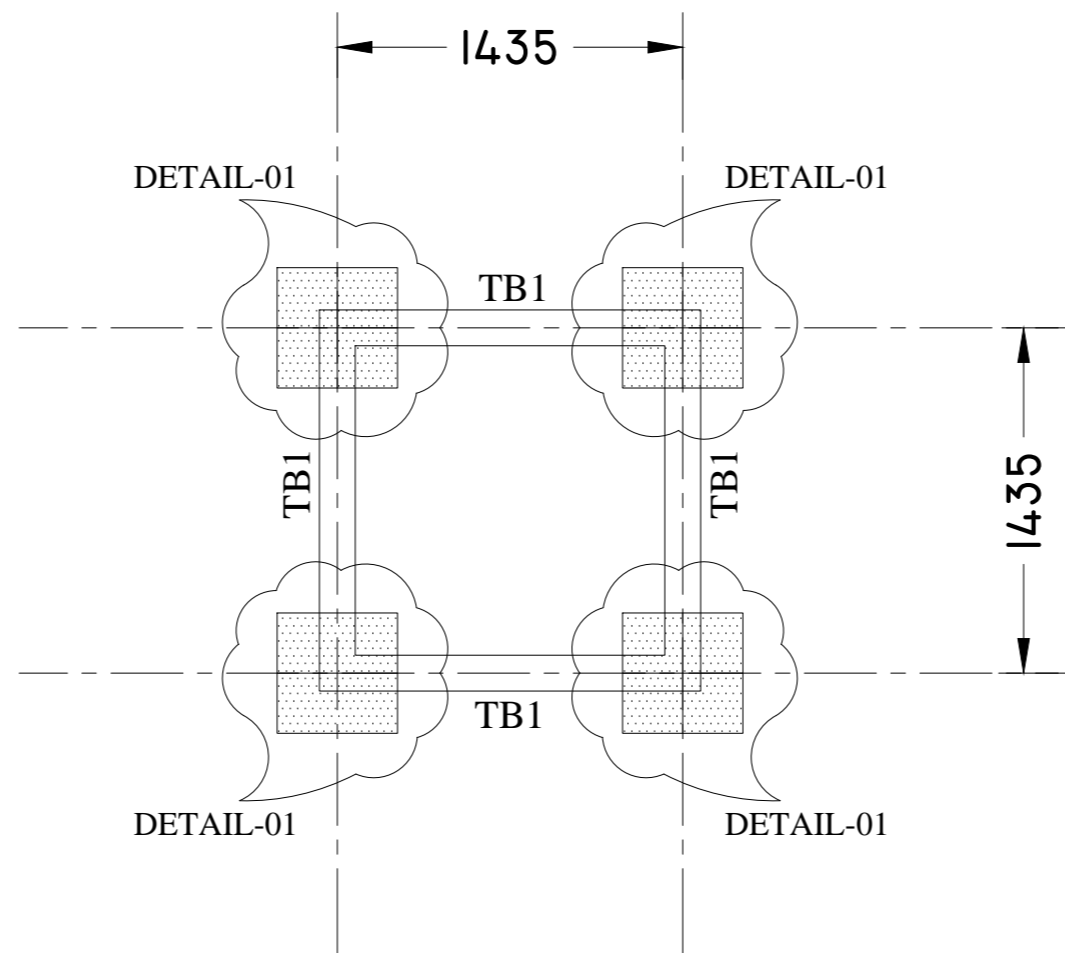
PROJECT FACILITATOR:-	PROJECT LEADER:-
SITE ENGINEER :-	CONSULTANT :-

0	04.04.2022	ISSUED FOR APPROVAL	V.S.	S.B.	S.B.
REV	DATE	DESCRIPTION	DRAWN	CHECKED	APPROVED

<b>AKS Consultant</b> Civil, Architectural & Structural Engineer ADD - 27, Janta Quarter, Choubey Colony, Raipur (C.G.) MOB. - 73545-84955, 79992-60374. E-MAIL. : abhishek.som888@gmail.com		<b>ER. SHUBHAM BAKSHI S.Y. VENTURES</b> B.E. .M.Tech(Structure Engineer ) Address- ASHWANI NAGAR, MAHADEV GHAT ROAD, Raipur (C.G.) Mobile No- 8827861261, 7000511200	
DWG. NO. : JS/CRAW/STEEL-03/2022		SHEET NO. : STEEL-03/2022	
<b>CLIENT DETAIL</b>			
PROJECT	CREDA, RAIPUR, 6.00 M. STAGING 5 KL WATER TANK STRUCTURE		
DRAWN	V.S. 04.04.2022		
CHECKED	S.B. 04.04.2022		
APPROVED	S.B. 04.04.2022		
SCALE	N.T.S.		
		DETAILS - 002	



**FOOTING CENTERLINE PLAN**



**TIE BEAM PLAN**

**COLUMN SCHEDULE**

	M20 : Fe500 , COVER = 40mm
	T8-@150mm TIES
COLUMN MARKED	C1

**GENERAL NOTES**

1. ALL DIMENSIONS ARE IN MM ONLY WRITTEN DIMENSION ARE TO BE FOLLOWED. DIMENSIONS IN STRUCTURAL DRAWING SHOULD NOT BE SCALED.
2. STRUCTURAL DRAWING SHOULD BE READ IN CONNECTION WITH RELEVANT ARCHITECTURAL DRAWING, IN CASE OF DISCREPANCY BETWEEN ARCHITECTURAL AND STRUCTURAL DRAWING SHOULD BE IMMEDIATELY BROUGHT TO NOTICE OF CONSULTANT.
3. M-20MIX- DESIGN MIX CONCRETE AND TMT BARS (FE-500) SHALL BE USED IN CONSTRUCTION.
4. TIES SHOULD BE BEND INSIDE WITH 10# LENGTH, ANGLE 135° IN BEAM & COLUMN.

**REINFORCING STEEL**

1. ALL REINFORCING STEEL WILL BE OF TESTED QUALITY CONFIRMING TO IS: 1786 LATEST.
2. REFER TO HIGH YIELD STRENGTH DEFORMED BARS WITH CHARACTERISTIC STRENGTH OF 500 N/SQ.MM.
3. THE CLEAR COVER TO REINFORCEMENT SHALL BE AS FOLLOWS:-  
FOUNDATION 50MM, WALL 50MM  
COLUMNS 40MM, FLOOR BEAM 30MM  
GRADE/TIE BEAM 30MM, SLABS 20MM\*
- \* COVER TO SECONDARY REINFORCEMENT ALSO SHALL NOT BE LESS THAN 20MM.
4. LAP LENGTH TO BE 50#DIA OF BAR MINIMUM.
5. SLAB BARS IN SHORTER DIRECTION SHALL BE BELOW BARS FOR THE LONGER DIRECTION.
6. IN BEAMS, FIRST STIRRUP SHALL BE AT NO MORE THAN 50MM FROM FACE OF THE SUPPORTING MEMBER.
7. IN BEAMS TOP BARS ARE NOT TO BE SPLICED IN THE END QUARTERS OF THE SPAN, AND THE BOTTOM BARS ARE NOT TO BE SPLICED AT MIDDLE HALF OF THE SPAN.

**STEEL WORK**

1. USE ALL INDIAN STANDARD ROLLED SECTION.
2. IF THERE ANY JOINTS IN LONG MEMBERS NOT TO BE PROVIDED AT CENTER AND TO BE PROVIDED FOR FULL STRENGTH.
3. ALL EDGES AND ENDS TO BE MACHINE CUT.
4. ALL HOLES TO BE DRILLED (NOT PUNCHED) 1.5MM. LARGER IN DIAMETER THAN THAT OF BOLTS.
5. ALL CLEAT OF ANGLE SECTION TO BE ISA.
6. ALL WELDS TO BE PROVIDED (8MM. FILLET) FOR FULL STRENGTH.
7. ALL COVER & STIFFENING PLATE ARE OF 8 MM THICK.
8. FOLLOW - IS -800-2007 FOR STEEL WORK.
9. YIELD STRENGTH :-250 N/MM2
10. ALL COVER & STIFFENING PLATE ARE OF 6MM. THICK.
11. FOLLOW -IS -2062 FOR HOT ROLLED MEDIUM AND HIGH TENSILE STRUCTURAL STEEL SPECIFICATION.
12. FOLLOW- IS- 1161 FOR RECTANGULAR HOLLOW SECTION.

**PROJECT SPECIFICATION**

1. THE NET SAFE BEARING CAPACITY OF SOIL IS TAKEN AS 9 TON/M2 AT 2.00m DEPTH FROM THE NGL.

**SIGNING AUTHORITY**

PROJECT FACILITATOR:-	PROJECT LEADER:-
SITE ENGINEER :-	CONSULTANT :-

0	01.05.2022	ISSUED FOR APPROVAL	V.S.	S.B.	S.B.
---	------------	---------------------	------	------	------

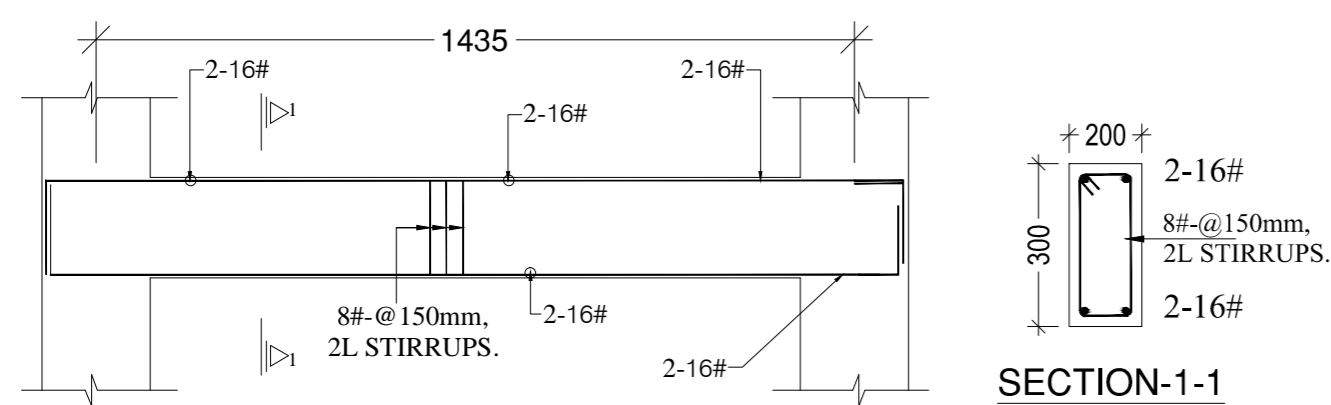
REV	DATE	DESCRIPTION	DRAWN	CHECKED	APPROVED
STRUCTURAL CONSULTANT					

 <b>AKS Consultant</b> Civil, Architectural & Structural Engineer ADD - 27, Janta Quarter, Chasibey Colony, Raipur (C.G.) MOB. - 73545-84955, 79992-60374, E-MAIL. : abhishek.som888@gmail.com	<b>ER. SHUBHAM BAKSHI</b> S.Y. VENTURES B.E. ,M.Tech(Structure Engineer ) Address- ASHWANI NAGAR, MAHADEV GHAT ROAD, Raipur (C.G.) Mobile No- 8827861261, 7000511200
--	---

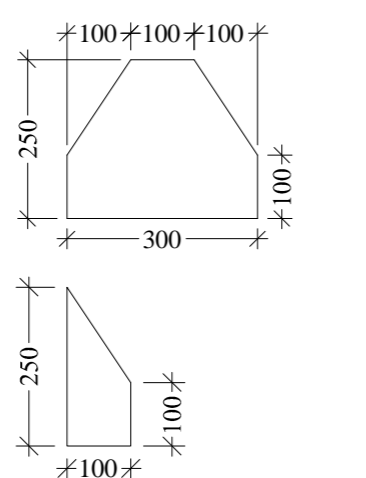
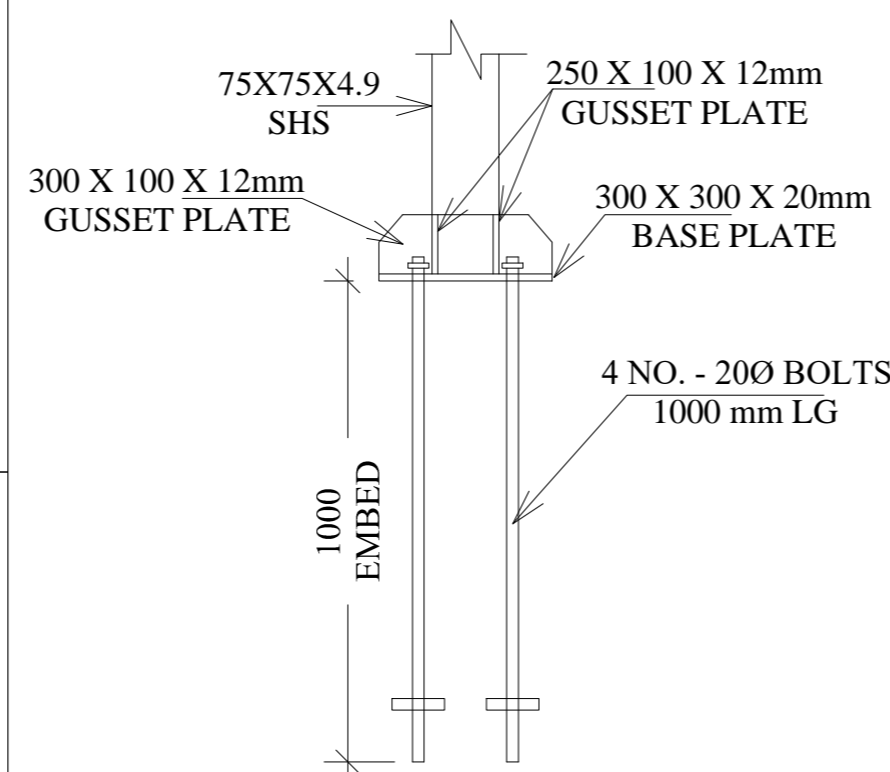
DWG. NO. :	SY/CR/WT12/CONC-01/2022	SHEET NO.	REV.
PROJECT		CONC-01/2022	
CLIENT DETAIL		PROJECT	
CREDA, RAIPUR, 6.00 M. STAGING		5 KL WATER-TANK STRUCTURE	
DRAWN	V.S. 01.05.2022	TITLE	
CHECKED	S.B. 01.05.2022	COLUMN, FOOTING,	
APPROVED	S.B. 01.05.2022	GROUND BEAM &	
SCALE	N.T.S.	BASE DETAILS	

**COMBINED FOOTING SCHEDULE (M20:Fe500)**

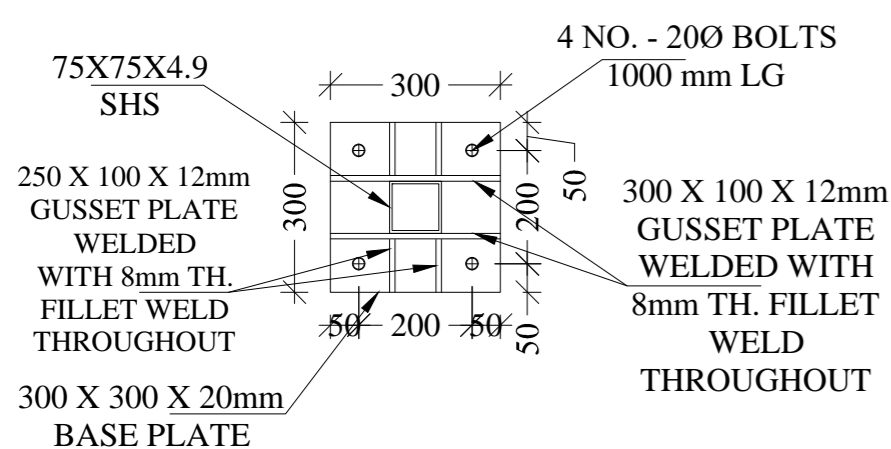
FOOTING NUMBERS	FOOTING TYPE	FOOTING DIMENSION			FOOTING REINFORCEMENT			
		L	B	D	TOP		BOTTOM	
					ALONG B	ALONG L	ALONG B	ALONG L
CF1	COMBINED	3000	3000	400	12# -@125mm	12# -@125mm	12# -@125mm	12# -@125mm



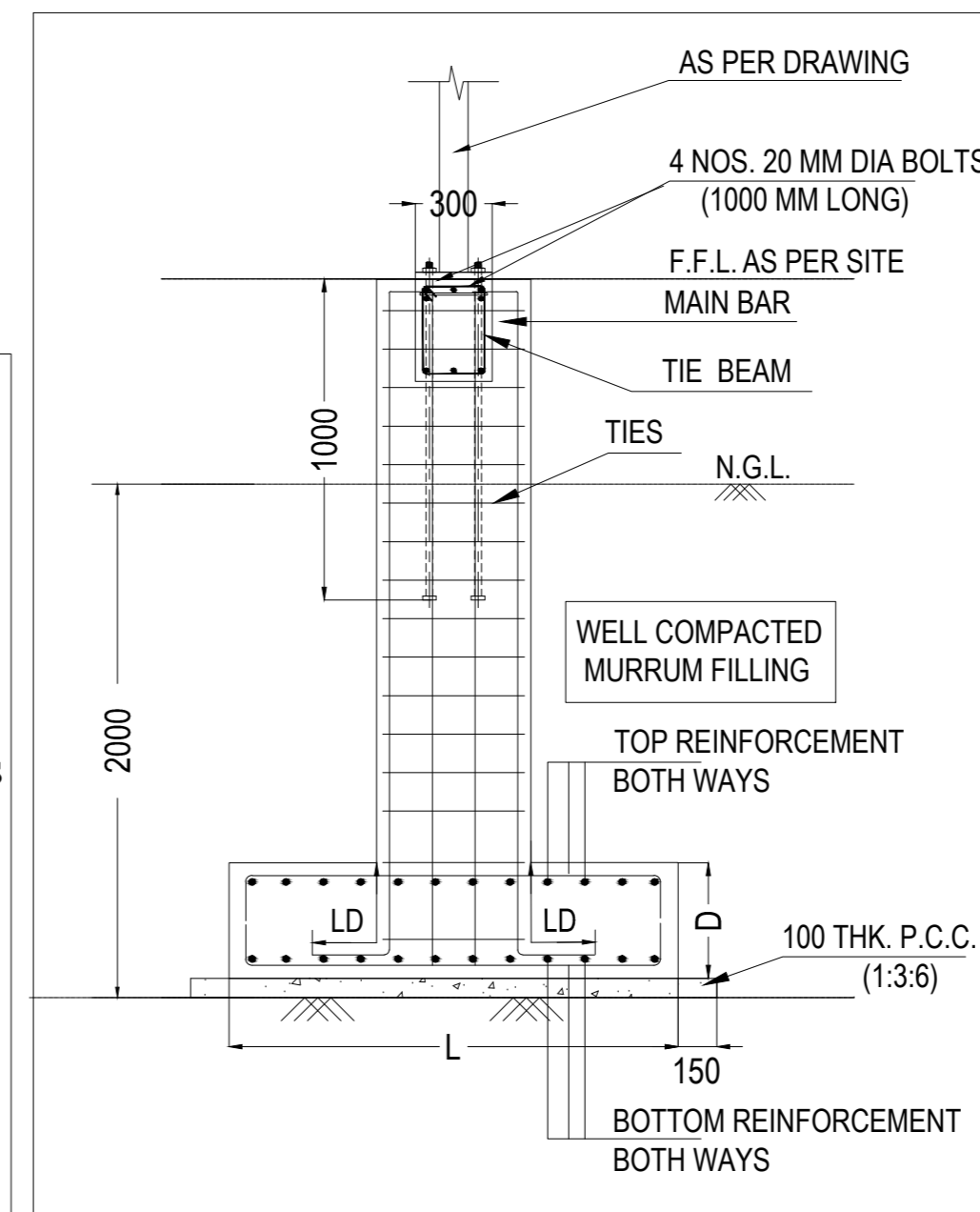
**TB1:200x300**

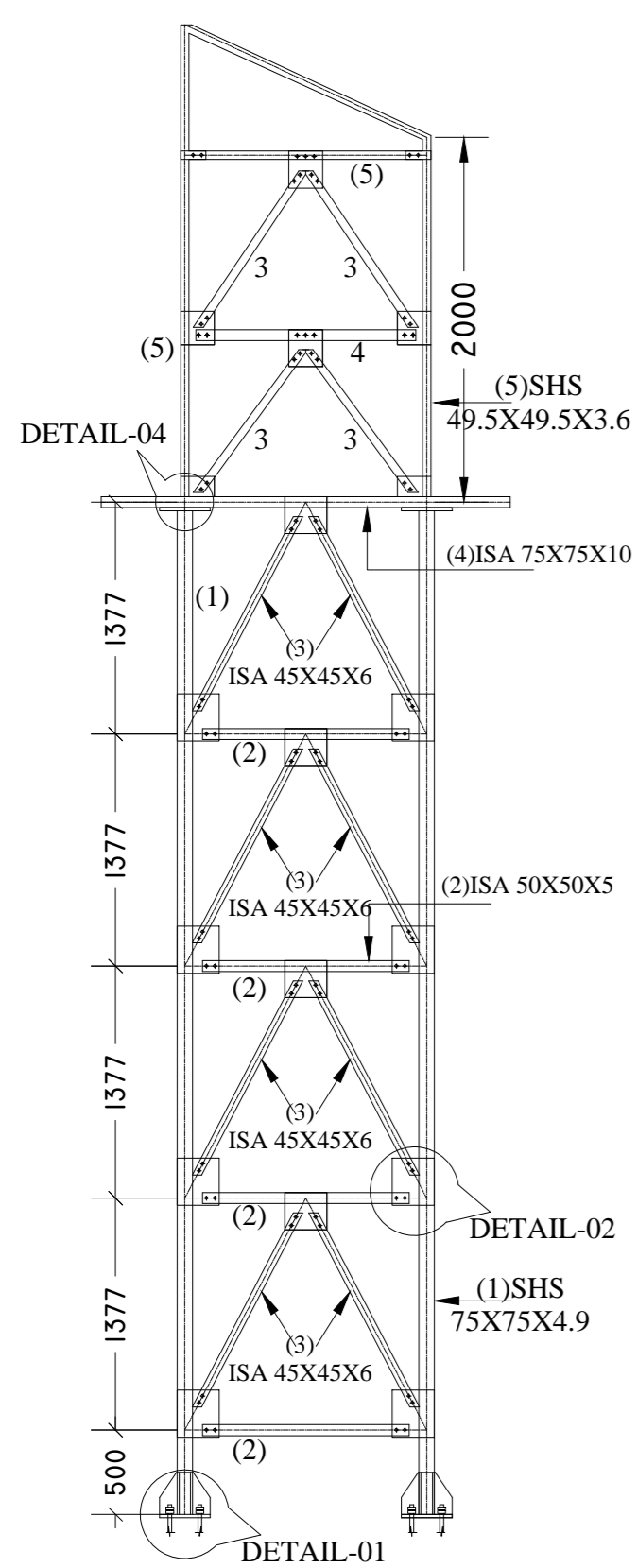


**GUSSET PLATE DETAILS**

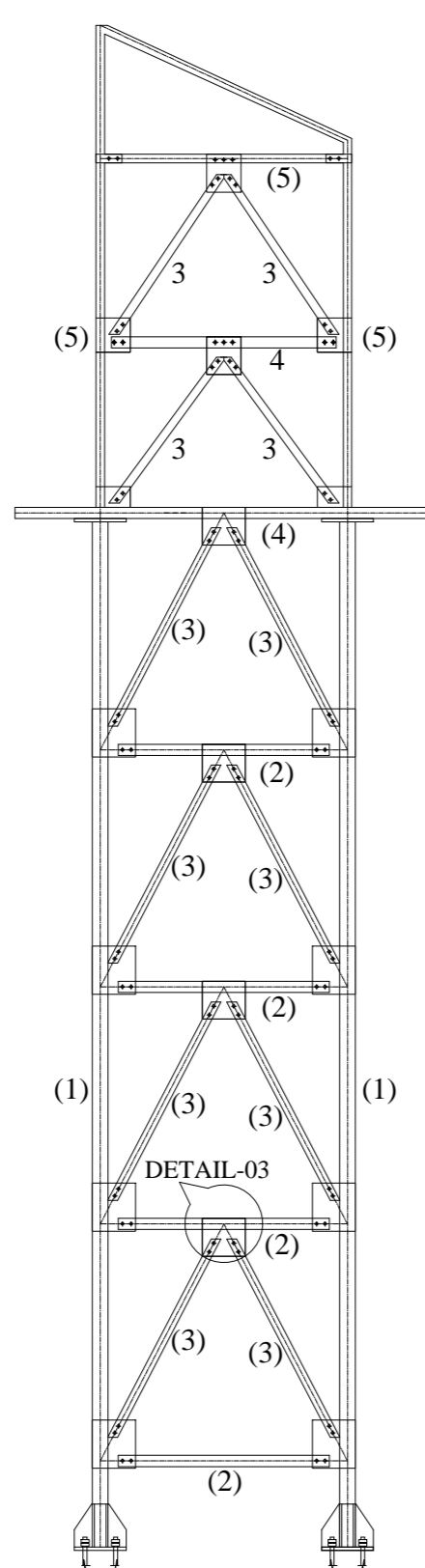


**DETAIL - 01**

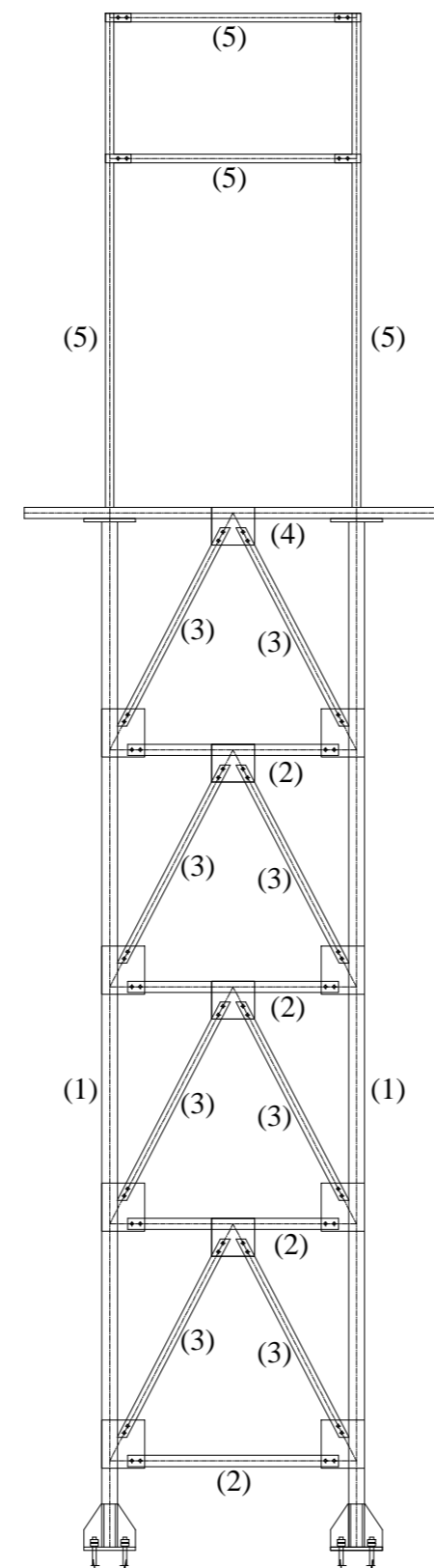




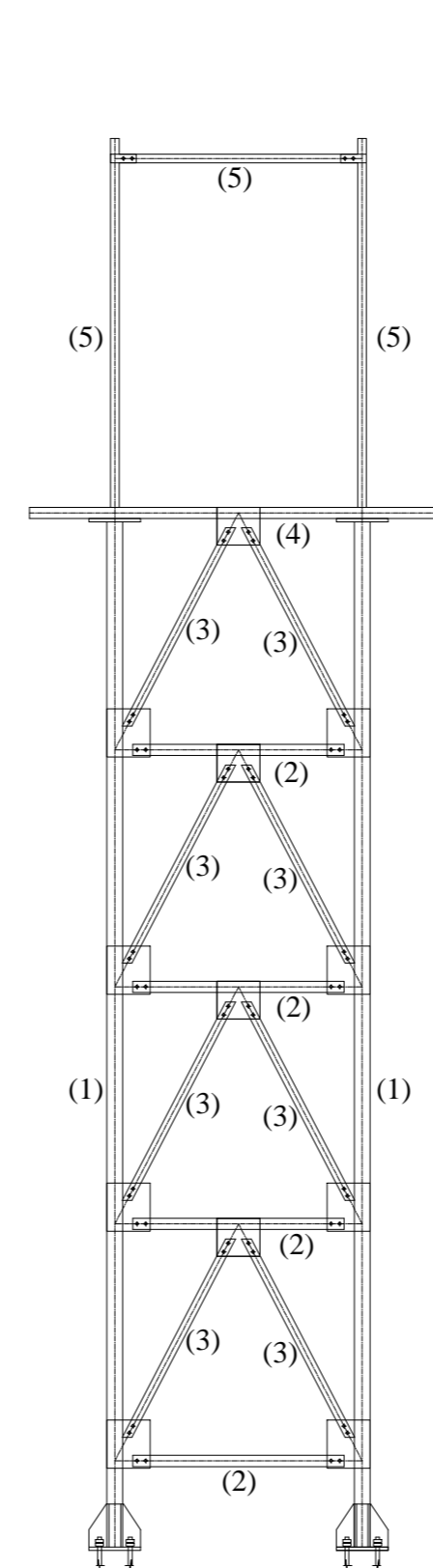
MEMBER AT 1-1



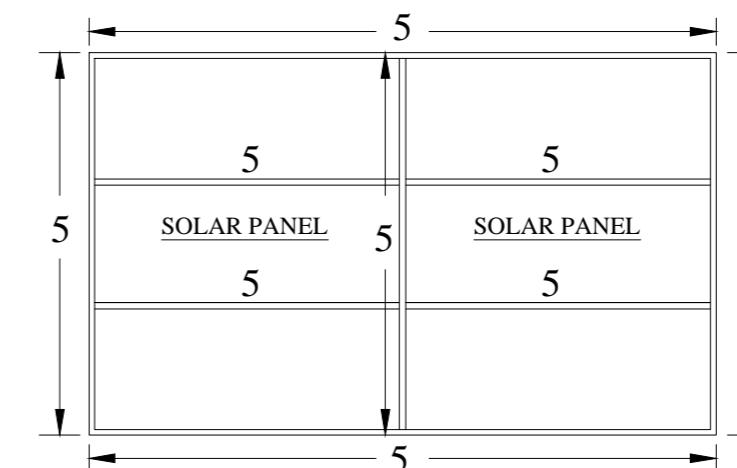
MEMBER AT 2-2



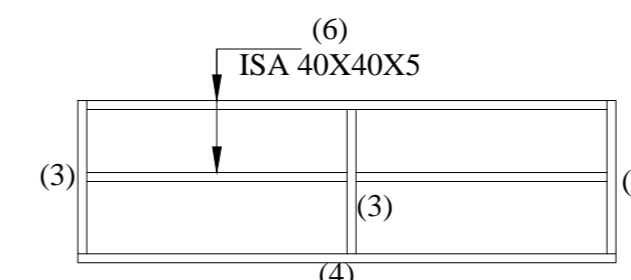
MEMBER AT A-A



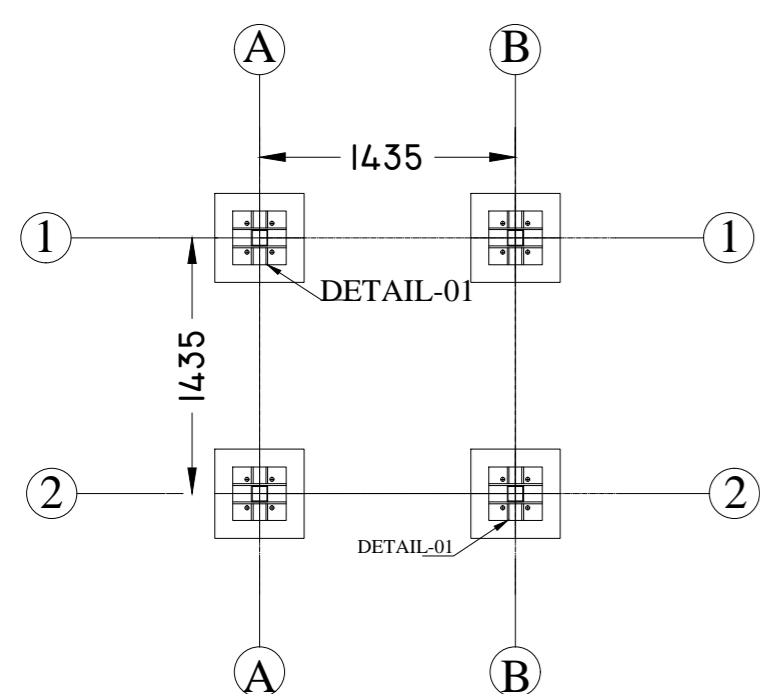
MEMBER AT B-B



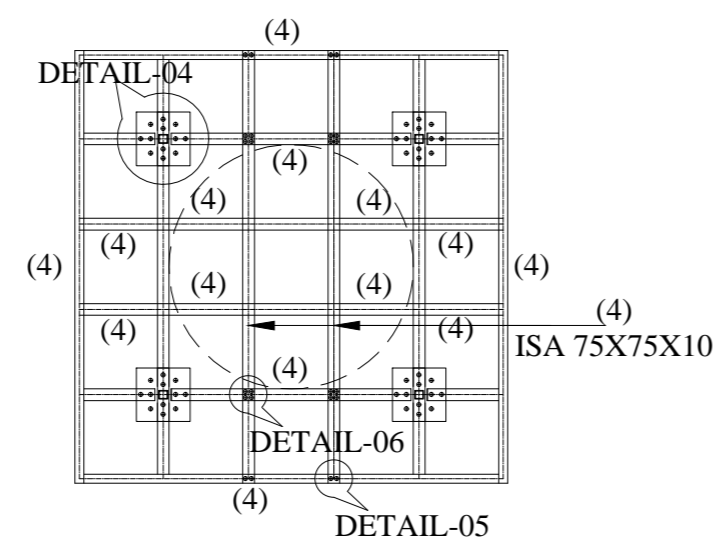
STRUCTURE FOR SOLAR PANEL WITH 6MM WELDED ALL THROUGH



PLATFORM RAILING DETAILS



GRID PLAN



DETAILS OF PLATFORM LVL. DOTTED LINE REPRESENTS POSITION OF 5KL WATER TANK

SECTION DETAILS

S.NO.	PARTICULAR	WEIGHT
01	SHS 75X75X4.9	10.30 kg/m
02	ISA 50X50X5	3.80 kg/m
03	ISA 45X45X6	4.00 kg/m
04	ISA 75X75X10	11.00 kg/m
05	SHS 49.5X49.5X3.6	4.93 kg/m
06	ISA 40 X 40 X 5	3.0 kg/m

GENERAL NOTES

- ALL DIMENSIONS ARE IN MM ONLY WRITTEN DIMENSION ARE TO BE FOLLOWED. DIMENSIONS IN STRUCTURAL DRAWING SHOULD NOT BE SCALED.
- STRUCTURAL DRAWING SHOULD BE READ IN CONNECTION WITH RELEVANT ARCHITECTURAL DRAWING, IN CASE OF DISCREPANCY BETWEEN ARCHITECTURAL AND STRUCTURAL DRAWING SHOULD BE IMMEDIATELY BROUGHT TO NOTICE OF CONSULTANT.
- M-20 MIX - DESIGN MIX CONCRETE AND TMT BARS (FE-500) SHALL BE USED IN CONSTRUCTION.
- TIES SHOULD BE BEND INSIDE WITH 10# LENGTH, ANGLE 135° IN BEAM & COLUMN.

REINFORCING STEEL

- ALL REINFORCING STEEL WILL BE OF TESTED QUALITY CONFIRMING TO IS: 1786 LATEST.
- REFER TO HIGH YIELD STRENGTH DEFORMED BARS WITH CHARACTERISTIC STRENGTH OF 500 N/SQ.MM.
- THE CLEAR COVER TO REINFORCEMENT SHALL BE AS FOLLOWS:-  
FOUNDATION 50MM, WALL 50MM  
COLUMNS 40MM, FLOOR BEAM 30MM  
GRADE/TIE BEAM 30MM, SLABS 20MM\*  
\*COVER TO SECONDARY REINFORCEMENT ALSO SHALL NOT BE LESS THAN 20MM.
- LAP LENGTH TO BE 50#DIA OF BAR MINIMUM.
- SLAB BARS IN SHORTER DIRECTION SHALL BE BELOW BARS FOR THE LONGER DIRECTION.
- IN BEAMS, FIRST STIRRUP SHALL BE AT NO MORE THAN 50MM FROM FACE OF THE SUPPORTING MEMBER.
- IN BEAMS TOP BARS ARE NOT TO BE SPLICED IN THE END QUARTERS OF THE SPAN, AND THE BOTTOM BARS ARE NOT TO BE SPLICED AT MIDDLE HALF OF THE SPAN.

STEEL WORK

- USE ALL INDIAN STANDARD ROLLED SECTION.
- IF THERE ANY JOINTS IN LONG MEMBERS NOT TO BE PROVIDED AT CENTER AND TO BE PROVIDED FOR FULL STRENGTH.
- ALL EDGES AND ENDS TO BE MACHINE CUT.
- ALL HOLES TO BE DRILLED (NOT PUNCHED) 1.5MM. LARGER IN DIAMETER THAN THAT OF BOLTS.
- ALL CLEAT OF ANGLE SECTION TO BE ISA.
- ALL WELDS TO BE PROVIDED (8MM. FILLET) FOR FULL STRENGTH.
- ALL COVER & STIFFENING PLATE ARE OF 8 MM THICK.
- FOLLOW - IS -800-2007 FOR STEEL WORK.
- YIELD STRENGTH :-250 N/MM2
- ALL COVER & STIFFENING PLATE ARE OF 6MM. THICK.
- FOLLOW -IS -2062 FOR HOT ROLLED MEDIUM AND HIGH TENSILE STRUCTURAL STEEL SPECIFICATION.
- FOLLOW- IS- 1161 FOR RECTANGULAR HOLLOW SECTION.

PROJECT SPECIFICATION

- THE NET SAFE BEARING CAPACITY OF SOIL IS TAKEN AS 9 TON/M2 AT 2.00m DEPTH FROM THE NGL.

SIGNING AUTHORITY

PROJECT FACILITATOR:-	PROJECT LEADER:-
SITE ENGINEER :-	CONSULTANT :-

0	04.04.2022	ISSUED FOR APPROVAL	V.S.	S.B.	S.B.
---	------------	---------------------	------	------	------

REV	DATE	DESCRIPTION	DRAWN	CHECKED	APPROVED
-----	------	-------------	-------	---------	----------

**AKS Consultant**  
Civil, Architectural & Structural Engineer  
ADD - 27, Janta Quarter, Choubey Colony, Raipur (C.G.)  
MOB. - 73545-84955, 79992-60374, E-MAIL: - abhishek.som888@gmail.com

ER. SHUBHAM BAKSHI  
S.Y. VENTURES  
B.E. (Mech/Structure Engineer)  
Address- ASHWANI NAGAR, MAHADEV GHAT ROAD, Raipur (C.G.)  
Mobile No- 8827861261, 7000511200

DWG. NO. :	JS/CRAWT/STEEL-03/2022	SHEET NO.	REV.
		STEEL-03/2022	

CLIENT DETAIL	
PROJECT	CREDA, RAIPUR, 6.00 M. STAGING 5 KL WATER TANK STRUCTURE
DRAWN	V.S. 14.04.2022
CHECKED	S.B. 04.04.2022
APPROVED	S.B. 04.04.2022
SCALE	N.T.S.