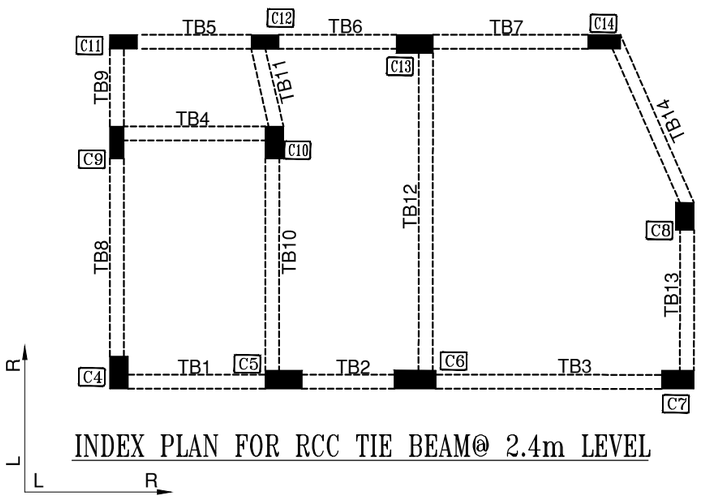
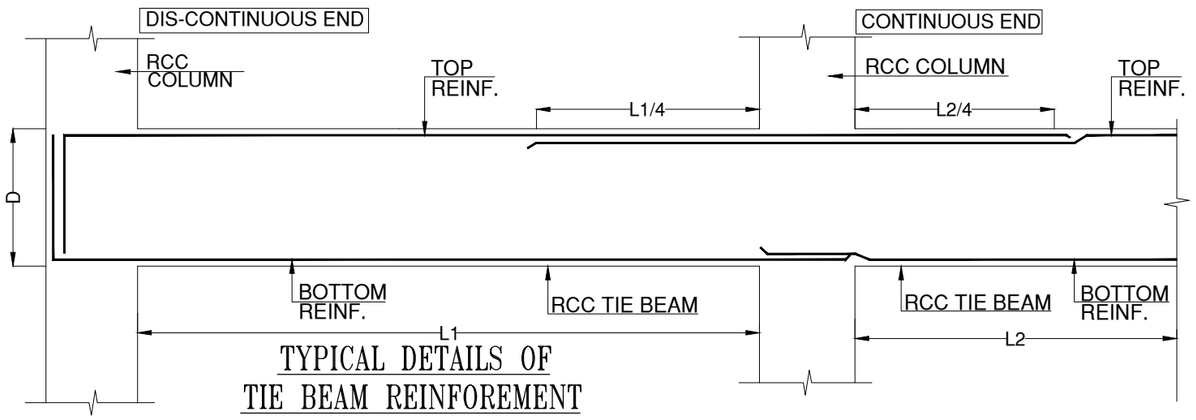


INDEX PLAN FOR RCC TIE BEAM@ 2.4m LEVEL

R.C.C. BEAM SCHEDULE

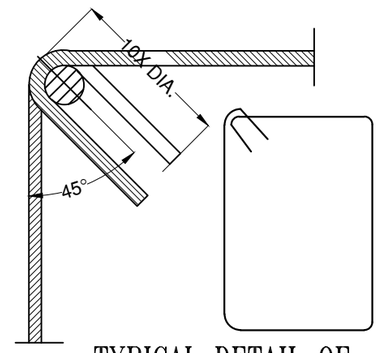
F.A.B-FROM ADJECENT BEAM R.F.T -RETURN FROM TOP

BEAM NOS	OVER ALL SIZE		STEEL AT BOTTOM		TOP			STIRRUPS			REMARKS
	B.	D.	STR.	BTM. CURT.	TOP	EXTRA AT TOP LEFT	EXTRA AT TOP RIGHT	DIA	NOS AND SPACING @SUPPORT	@MID SPAN	
TB1	230	350	2 - T12		2 - T12			T8	@ 150 C/C	@ 150 C/C	TIE BEAM@ 2.4m LVL
TB2	230	350	2 - T12		2 - T12			T8	@ 150 C/C	@ 150 C/C	TIE BEAM@ 2.4m LVL
TB3	230	350	2 - T12		2 - T12			T8	@ 150 C/C	@ 150 C/C	TIE BEAM@ 2.4m LVL
TB4	230	350	2 - T12		2 - T12			T8	@ 150 C/C	@ 150 C/C	TIE BEAM@ 2.4m LVL
TB5	230	350	2 - T12		2 - T12			T8	@ 150 C/C	@ 150 C/C	TIE BEAM@ 2.4m LVL
TB6	230	350	2 - T12		2 - T12			T8	@ 150 C/C	@ 150 C/C	TIE BEAM@ 2.4m LVL
TB7	230	350	2 - T12		2 - T12			T8	@ 150 C/C	@ 150 C/C	TIE BEAM@ 2.4m LVL
TB8	230	350	2 - T12		2 - T12			T8	@ 150 C/C	@ 150 C/C	TIE BEAM@ 2.4m LVL
TB8	230	350	2 - T12		2 - T12			T8	@ 150 C/C	@ 150 C/C	TIE BEAM@ 2.4m LVL
TB9	230	350	2 - T12		2 - T12			T8	@ 150 C/C	@ 150 C/C	TIE BEAM@ 2.4m LVL
TB10	230	350	2 - T12		2 - T12			T8	@ 150 C/C	@ 150 C/C	TIE BEAM@ 2.4m LVL
TB11	230	350	2 - T12		2 - T12			T8	@ 150 C/C	@ 150 C/C	TIE BEAM@ 2.4m LVL
TB12	230	450	3 - T12		3 - T12			T8	@ 150 C/C	@ 150 C/C	TIE BEAM@ 2.4m LVL
TB13	230	350	2 - T12		2 - T12			T8	@ 150 C/C	@ 150 C/C	TIE BEAM@ 2.4m LVL
TB14	230	350	2 - T12		2 - T12			T8	@ 150 C/C	@ 150 C/C	TIE BEAM@ 2.4m LVL

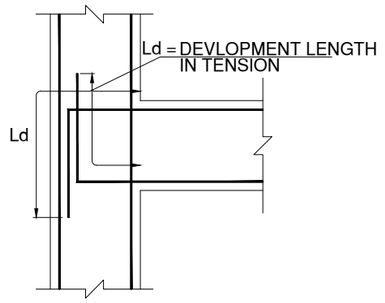


TYPICAL DETAILS OF TIE BEAM REINFOREMENT

NOTE -2:-TIE BEAM TOP REINF.SHALL BE CONTINUED IN ADJ.BEAM OR COLUMN FOR MIN.L/4 (REFER REBAR DETAIL)



TYPICAL DETAIL OF ANCHORING ENDS OF STIRRUPS



ANCHORAGE OF BEAMS IN AN EXTERNAL JOINT

A3/1/3

(REFERENCE NOTES FROM IS 456: 2000)

1. ALL DIMENSIONS ARE IN 'mm' AND ALL LEVELS TO BE REFERRED FROM ARCHITECTURAL DRAWINGS.
2. CENTER LINE PLAN SHOULD BE CHECKED BY THE ARCH. REFER ARCHITECT'S DRAWING FOR ALL OTHER DETAILS & DIMENSIONS.
3. NOMINAL COVERS

EXPOSURE CONDITION	Mild	Moderate
I FOOTINGS	50	50
II COLUMNS & WALLS (TO LINKS OF COLUMN)	40	40
III SLABS	20	30
IV BEAMS (TO STIRRUPS OF BEAM)	20	30

4. LAPPING OF REINFORCEMENT:- DEVELOPMENT LENGTH (Ld)

GRADE OF REINF.	M20	M25	M30	M35	M40 & ABOVE
Fe415	48 X D	41 X D	38 X D	34 X D	30 X D
Fe500 (TMT)	57 X D	49 X D	46 X D	40 X D	36 X D

5. REFER STANDARD DRAWING'S FOR LAP LOCATIONS TO BARS IN BEAMS AND COLUMNS.
6. IF UNAVOIDABLE,REINF. LAPS FOR BEAMS AND SLABS SHALL BE STAGGERED WITH NOT MORE THAN 50%OF THE BARS SPECIFIED AT A SECTION.
7. FOR CANTILEVERS (SLAB or BEAM), TOP BARS TO BE ANCHORED BEHIND FOR 75xDIA OR SPAN WHICHEVER IS GREATER.
8. LINKS IN COLUMN AT COLUMN-BEAM JUNCTION ARE NECESSARY.
9. WHENEVER THE DIMENTION OF COLUMN GETS REDUCED, TIE BEAM OR PLINTH BEAM IS NECESSARY IN THE SAME DIRECTION.
10. FIRE RATING CONSIDERED:- 1 Hour Maximum
11. ALL STRUCTURAL CONCRETE SHOULD BE WEIGH BATCHED, MACHINE MIXED & MECHANICALLY VIBRATED.
12. MINIMUM PERIOD FOR REMOVAL OF FORMWORK,

VERTICAL FROMWORK TO COLUMN WALLS	18 HOURS.
SOFFIT OF SLAB (UP TO 4.5 M.SPAN)	7 DAYS.
SOFFIT OF SLAB (OVER 4.5 M. SPAN)	14 DAYS.
BEAM BOTTOM (UP TO 6.0 M.SPAN)	14 DAYS.
BEAM BOTTOMS (OVER 6.0 M.SPAN)	21 DAYS.

IF PROPS TO BE REFIXED IMMEDIATELY AFTER REMOVAL OF FORM WARK,

SOFFIT OF SLAB	3 DAYS.
BEAM BOTTOM	7 DAYS.

NOTES:-

ONLY THE DRAWINGS WITH THE STAMP/SEAL AND SIGN OF SHOULD BE CONSIDERED AS AUTHENTIC G.F.C DRAWINGS.

AFTER UNDERSTANDING THE ABOVE NOTES, DETAILS THE LICENSED SUPERVISING ENGINEER AND CONTRACTOR SHALL COMPLY WITH THE SAME, BEFORE CONCRETING.THEY ARE ALSO RESPONSIBLE FOR THE FULL SAFETY OF SHUTTERING, CENTERING PROPS, CONCRETING, EXECUTION, SUPERVISION, WORKMANSHIP, QUALITY OF MATERIAL AND OTHER CONSTRUCTION PROCEDURES.

RESPONSIBILITY REGARDING CORRECT & SOUND CONSTRUCTION ,SHUTTERING SHALL SOLELY REST WITH CONTRACTOR/ OWNER.FOLLOWING GUIDELINE MAY BE USED FOR STRIPPING OF FORMS IN NORMAL CIRCUMSTANCES.

WE SHALL NOT BE RESPONSIBLE AGAINST ANY ACCIDENTS AND FAILURES BECAUSE OF DEFECTIVE SHUTTERING, DEFECTIVE CONSTRUCTION PROCEDURE, ANY ADDITION AND / OR ALTERATION OR ANY DAMAGE TO THE STRUCTURAL FRAME WHICH IS CAUSED BY ACCIDENT ON SITE OR BY TAMPERING WITH THE GEOMETRICAL SECTIONS OF STRUCTURAL MEMBERS FOR ANY PURPOSE WHATSOEVER OR DUE TO OVERLOADING OF THE STRUCTURE OR LACK OF MAINTENANCE.

DESIGN CONSIDERATIONS:

DESIGN VALID ONLY FOR:-	GROUND + 3 FLOOR ONLY
SAFE BEARING CAPACITY OF SOIL:- # STRATA SHOULD BE CONFIRMED AS PER SOIL INVESTIGATION REPORT	TO BE CONFIRM
GRADE OF CONCRETE:-	M25
GRADE OF STEEL	Fe 500
EXPOSURE CONDITION:-	MILD
DESIGNED LIVE LOAD:-	3 Kn/sq.m

NO. REV.	DATE	DRAWN BY	CHECKED BY	DESCRIPTION OF THE REVISIONS
R0	16.01.20	M.M.	M.M	ADVANCE COPY FOR APPROVAL

PURPOSE OF RELEASE

ADVANCE COPY FOR TENDERING PURPOSE

NAME OF CLIENT/OWNER/DEVELOPER:

MR.MANOJ PRAKASH SATHE

NAME OF PROJECT:

Proposed Residential building @S.No - 38/2/2(P), Plot No-31, Village - Kharadi, Pune-411014

PROJECT ARCHITECT:

AR.DHARAMPAL GAWADE

DRAWING TITLE:

INDEX PLAN FOR RCC TIE BEAM@2.4m LEVEL

DRAWN BY:	V.S	DESIGNED BY:	M.M
CHECKED BY:	M.M.	DATE:	16.01.2021
DRAWING NO & REVISION:	2020/10/RC-TB/R0		

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