

DAV  
PUBLIC  
SENIOR  
SECONDARY  
SCHOOL  
KOT KAPURA







DAV PUBLIC SCHOOL KOT KAPURA

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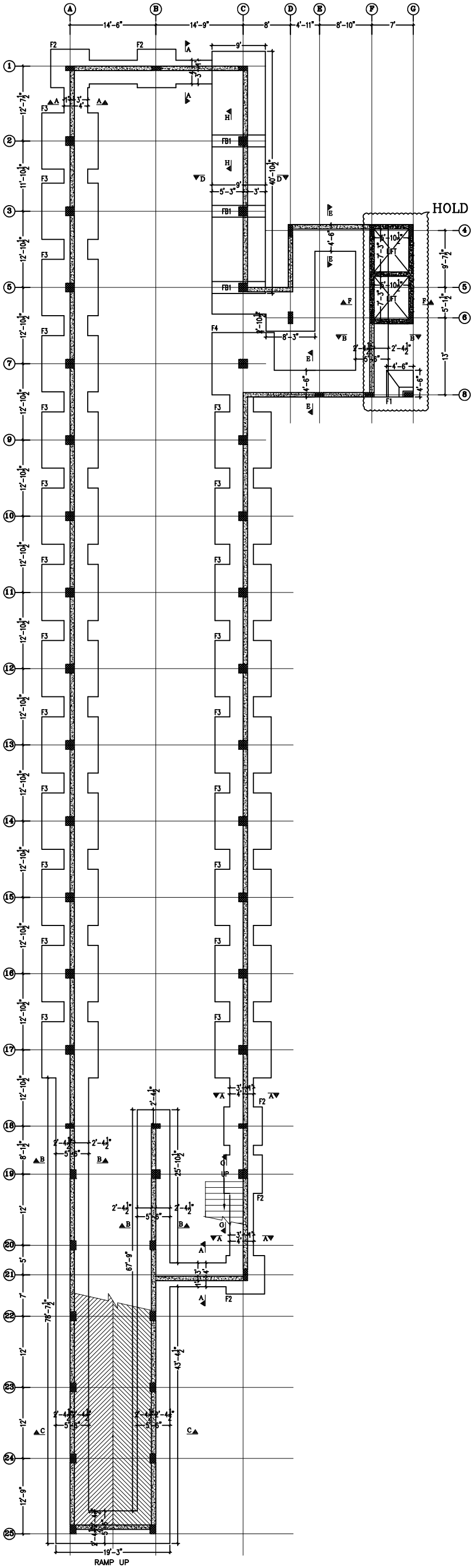


DAV PUBLIC SCHOOL  
KOT KAPURA





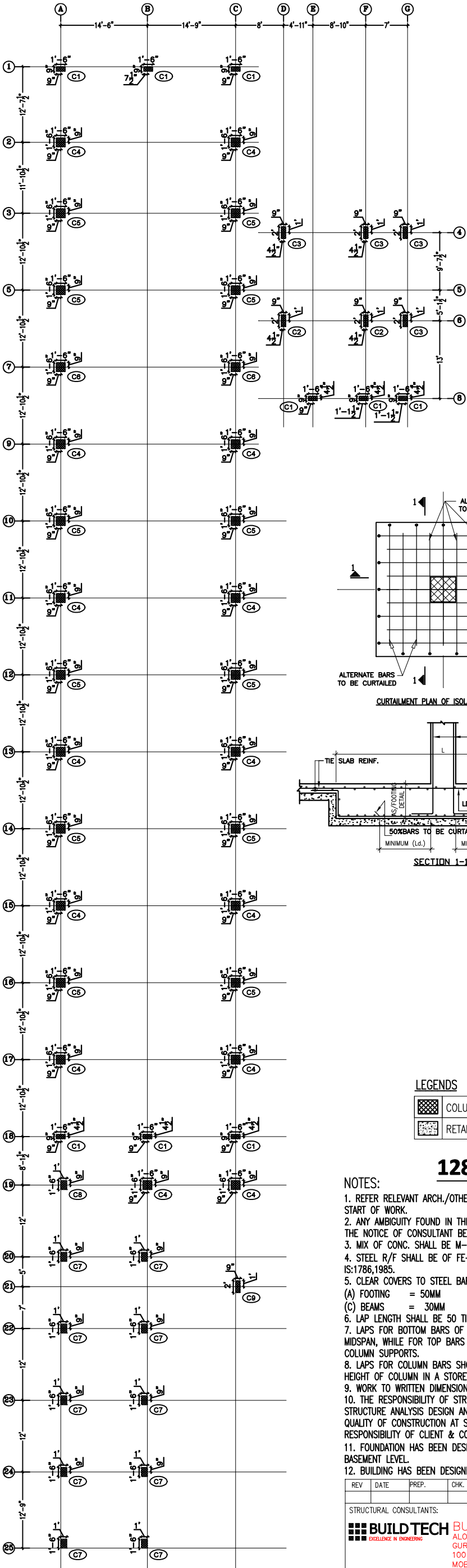




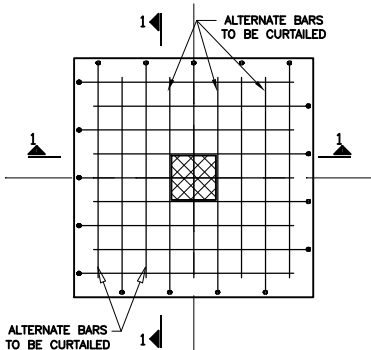
FOUNDATION PLAN

SCHEDULE OF FOOTINGS

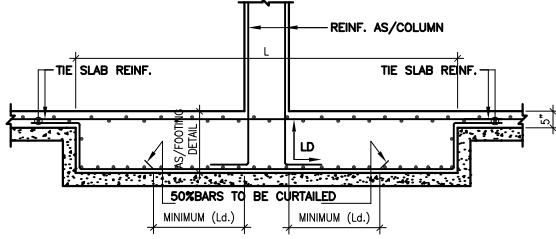
| FOOTING NO. | FOOTING SIZE A X B | DEPTH OF FOOTING D | REINFORCEMENT R | REMARKS            |
|-------------|--------------------|--------------------|-----------------|--------------------|
| F1          | 4'-6"X4'-6" CORNER | 1'-6"              | 12Ø5½"c/c       | NO CURTAILMENT     |
| F2          | 6'-6"X6'-6"        | 1'-4"              | 10Ø4"c/c        | NO CURTAILMENT     |
| F3          | 9'-6"X9'-6"        | 1'-10"             | 12Ø4"c/c        | CURTAILMENT AT A/6 |
| F4          | 10'-6"X10'-6"      | 2'-0"              | 12Ø4"c/c        | CURTAILMENT AT A/6 |



COLUMN LOCATION PLAN



CURTAILMENT PLAN OF ISOLATED FOOTINGS



SECTION 1-1

LEGENDS

|  |                |
|--|----------------|
|  | COLUMN HEAD    |
|  | RETAINING WALL |

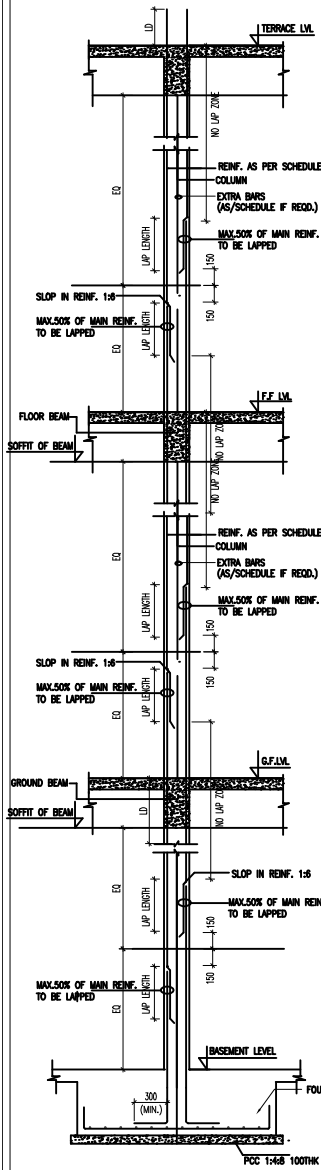
128 - A

NOTES:

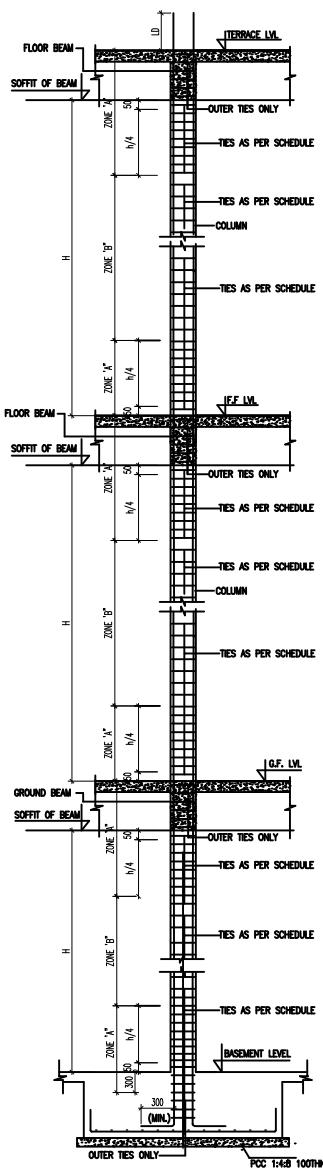
- REFER RELEVANT ARCH./OTHER CONSULTANTS DRAWINGS BEFORE START OF WORK.
- ANY AMBIGUITY FOUND IN THIS DRAWING SHALL BE BROUGHT TO THE NOTICE OF CONSULTANT BEFORE EXECUTION OF WORK AT SITE.
- MIX OF CONC. SHALL BE M-25 CONFORMING TO IS:456,2000.
- STEEL R/F SHALL BE OF FE-500D GRADE CONFORMING TO IS:1786,1985.
- CLEAR COVERS TO STEEL BARS SHALL BE AS GIVEN BELOW.  
(A) FOOTING = 50MM (B) COLUMN = 40MM  
(C) BEAMS = 30MM (D) SLABS = 25MM
- LAP LENGTH SHALL BE 50 TIMES DIA OF BAR.
- LAPS FOR BOTTOM BARS OF BEAM SHALL BE AVOIDED NEAR MIDSPAN, WHILE FOR TOP BARS THEY SHOULD BE AVOIDED NEAR COLUMN SUPPORTS.
- LAPS FOR COLUMN BARS SHOULD BE LOCATED NEAR MID HEIGHT OF COLUMN IN A STOREY.
- WORK TO WRITTEN DIMENSIONS ONLY, DO NOT SCALE THE DRG.
- THE RESPONSIBILITY OF STRUCTURAL CONSULTANT LIMITED TO STRUCTURE ANALYSIS DESIGN AND SUPPLY OF DRAWING. THE QUALITY OF CONSTRUCTION AT SITE AND MATERIAL USED IS THE RESPONSIBILITY OF CLIENT & CONTRACTOR.
- FOUNDATION HAS BEEN DESIGNED FOR 15T/m<sup>2</sup> S.B.C AT BASEMENT LEVEL.
- BUILDING HAS BEEN DESIGNED FOR B+G+2 ONLY.

| REV                                                                                                                                                                                      | DATE                        | PREP.                                                                   | CHK.                      | APR.                  | DESCRIPTION          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-------------------------------------------------------------------------|---------------------------|-----------------------|----------------------|
| STRUCTURAL CONSULTANTS:                                                                                                                                                                  |                             |                                                                         |                           |                       |                      |
| <b>BUILDTECH ENGINEERS</b><br>ALONG STREET NO.20<br>GURU TEG BAHADUR NAGAR<br>100 FT. ROAD, BATHINDA.151001(PB.)<br>MOB.- 98146-00203, 96463-32889<br>E-mail- info@buildtechengineer.com |                             |                                                                         |                           |                       |                      |
| PROJECT TITLE : <b>DAV SCHOOL KOTKAPURA</b>                                                                                                                                              |                             |                                                                         |                           |                       |                      |
| PREPARED:<br><b>RITU KAUR</b>                                                                                                                                                            | DATE :<br><b>29-09-2025</b> | DOCUMENT TITLE :<br><b>FOUNDATION DETAIL &amp; COLUMN LOCATION PLAN</b> |                           |                       |                      |
| CHECKED:<br><b>MOHIT GARG</b>                                                                                                                                                            | DATE :<br><b>29-09-2025</b> | DEPARTMENT :<br><b>ENGINEERING</b>                                      | SCALE :<br><b>1 : 150</b> | FORMAT :<br><b>A2</b> | REV.NO.<br><b>R0</b> |
| PROJECT CODE:<br><b>17817</b>                                                                                                                                                            |                             | DOCUMENT NO.<br><b>17817_BTE_F&amp;CD_101</b>                           |                           | SHEET :<br><b>1/2</b> |                      |

|                                |             |               |               |               |                   |               |                   |               |                   |               |
|--------------------------------|-------------|---------------|---------------|---------------|-------------------|---------------|-------------------|---------------|-------------------|---------------|
| SECOND FLOOR TO TERRACE LEVEL  | SECTION     |               |               |               |                   |               |                   |               |                   |               |
|                                | TIES/SET    | a+2b (G1)     | a+2b+c (G1)   | a+2b+c (G1)   | a+2b (G3)         | a+2b (G3)     | a+2b (G3)         | a+2b (G2)     | a+2b (G2)         | a+2b+c (G1)   |
|                                | REINF.      | 4-16Ø+6-12Ø   | 4-20Ø+8-16Ø   | 8-16Ø+4-12Ø   | 12-20Ø+4-16Ø(EXT) | 4-25Ø+8-20Ø   | 4-25Ø+8-20Ø       | 10-16Ø        | 6-20Ø+4-16Ø       | 12-20Ø        |
|                                | CONC. GRADE | M25           | M25           | M25           | M25               | M25           | M25               | M25           | M25               | M25           |
|                                | COLUMN SIZE | 0'-9" X 1'-6" | 0'-9" X 2'-0" | 0'-9" X 2'-0" | 1'-6" X 1'-6"     | 1'-6" X 1'-6" | 1'-6" X 1'-6"     | 1'-0" X 1'-6" | 1'-0" X 1'-6"     | 0'-9" X 2'-0" |
| FIRST FLOOR TO SECOND FLOOR    | SECTION     |               |               |               |                   |               |                   |               |                   |               |
|                                | TIES/SET    | a+2b (G1)     | a+2b+c (G1)   | a+2b+c (G1)   | a+2b (G3)         | a+2b (G3)     | a+2b (G3)         | a+2b (G2)     | a+2b (G2)         | a+2b+c (G1)   |
|                                | REINF.      | 10-16Ø        | 4-20Ø+8-16Ø   | 8-16Ø+4-12Ø   | 12-20Ø            | 4-25Ø+8-20Ø   | 4-25Ø+8-20Ø       | 10-16Ø        | 10-20Ø            | 12-20Ø        |
|                                | CONC. GRADE | M25           | M25           | M25           | M25               | M25           | M25               | M25           | M25               | M25           |
|                                | COLUMN SIZE | 0'-9" X 1'-6" | 0'-9" X 2'-0" | 0'-9" X 2'-0" | 1'-6" X 1'-6"     | 1'-6" X 1'-6" | 1'-6" X 1'-6"     | 1'-0" X 1'-6" | 1'-0" X 1'-6"     | 0'-9" X 2'-0" |
| GROUND LEVEL TO FIRST FLOOR    | SECTION     |               |               |               |                   |               |                   |               |                   |               |
|                                | TIES/SET    | a+2b (G1)     | a+2b+c (G1)   | a+2b+c (G1)   | a+2b (G3)         | a+2b (G3)     | a+2b (G3)         | a+2b (G2)     | a+2b (G2)         | a+2b+c (G1)   |
|                                | REINF.      | 10-16Ø        | 8-20Ø+4-16Ø   | 8-16Ø+4-12Ø   | 12-20Ø            | 8-25Ø+4-20Ø   | 12-25Ø+4-16Ø(EXT) | 10-16Ø        | 10-20Ø+4-16Ø(EXT) | 12-20Ø        |
|                                | CONC. GRADE | M25           | M25           | M25           | M25               | M25           | M25               | M25           | M25               | M25           |
|                                | COLUMN SIZE | 0'-9" X 1'-6" | 0'-9" X 2'-0" | 0'-9" X 2'-0" | 1'-6" X 1'-6"     | 1'-6" X 1'-6" | 1'-6" X 1'-6"     | 1'-0" X 1'-6" | 1'-0" X 1'-6"     | 0'-9" X 2'-0" |
| BASEMENT LEVEL TO GROUND LEVEL | SECTION     |               |               |               |                   |               |                   |               |                   |               |
|                                | TIES/SET    | a+2b (G1)     | a+2b+c (G1)   | a+2b+c (G1)   | a+2b (G3)         | a+2b (G3)     | a+2b (G3)         | a+2b (G2)     | a+2b (G2)         | a+2b+c (G1)   |
|                                | REINF.      | 10-16Ø        | 8-20Ø+4-16Ø   | 8-16Ø+4-12Ø   | 12-20Ø            | 8-25Ø+4-20Ø   | 12-25Ø            | 10-16Ø        | 10-20Ø            | 12-20Ø        |
|                                | CONC. GRADE | M25           | M25           | M25           | M25               | M25           | M25               | M25           | M25               | M25           |
|                                | COLUMN SIZE | 0'-9" X 1'-6" | 0'-9" X 2'-0" | 0'-9" X 2'-0" | 1'-6" X 1'-6"     | 1'-6" X 1'-6" | 1'-6" X 1'-6"     | 1'-0" X 1'-6" | 1'-0" X 1'-6"     | 0'-9" X 2'-0" |
| LEVELS                         | MARKED      | C1            | C2            | C3            | C4                | C5            | C6                | C7            | C8                | C9            |

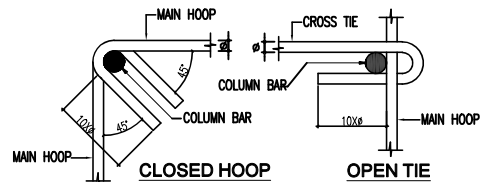
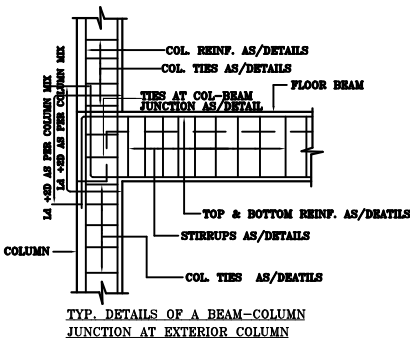
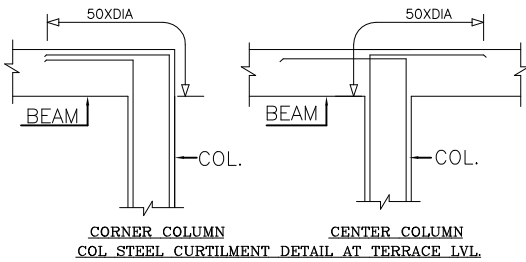
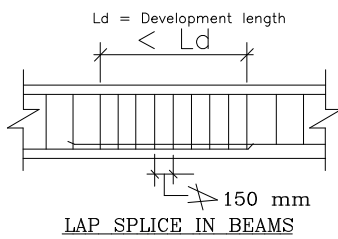


**TYPICAL COLUMN LAPPING DETAIL**  
COLUMN VERTICAL BARS TO BE LAPPED ALTERNATIVELY IN ONE POSITION WITH SPACINGS NOT MORE THAN 500MM TO BE LAPPED AT ONE SECTION



**TYPICAL COLUMN TIES DETAIL**  
COLUMN VERTICAL BARS TO BE LAPPED ALTERNATIVELY IN ONE POSITION WITH SPACINGS NOT MORE THAN 500MM TO BE LAPPED AT ONE SECTION

| TIES SCHEDULE |          |          |
|---------------|----------|----------|
|               | ZONE A   | ZONE B   |
| (G1)          | 8Ø@3"c/c | 8Ø@5"c/c |
| (G2)          | 8Ø@3"c/c | 8Ø@6"c/c |
| (G3)          | 8Ø@4"c/c | 8Ø@8"c/c |



**TYP. DETAILS OF HOOKS**

**129 - A**

**NOTES:**

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8. LAPS FOR COLUMN BARS SHOULD BE LOCATED NEAR MID HEIGHT OF COLUMN IN A STOREY.
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|                                                                                       |                  |                                                                                                                                                                                         |         |      |             |
|---------------------------------------------------------------------------------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------|-------------|
| REV                                                                                   | DATE             | PREP.                                                                                                                                                                                   | CHK.    | APR. | DESCRIPTION |
|                                                                                       |                  |                                                                                                                                                                                         |         |      |             |
| STRUCTURAL CONSULTANTS:                                                               |                  |                                                                                                                                                                                         |         |      |             |
|  |                  | <b>BUILDTECH ENGINEERS</b><br>ALONG STREET NO.20<br>GURU TEG BAHADUR NAGAR<br>100 FT. ROAD, BATHINDA.151001(PB.)<br>MOB.- 98146-00203, 96463-32889<br>E-mail-info@buildtechengineer.com |         |      |             |
| PROJECT TITLE :                                                                       |                  |                                                                                                                                                                                         |         |      |             |
| DAV SCHOOL KOTKAPURA                                                                  |                  |                                                                                                                                                                                         |         |      |             |
| PREPARED :                                                                            | DATE :           | DOCUMENT TITLE :                                                                                                                                                                        |         |      |             |
| RITU KAUR                                                                             | 29-09-2025       | COLUMN DETAIL                                                                                                                                                                           |         |      |             |
| CHECKED :                                                                             | DATE :           |                                                                                                                                                                                         |         |      |             |
| MOHIT GARG                                                                            | 29-09-2025       |                                                                                                                                                                                         |         |      |             |
| DEPARTMENT :                                                                          | SCALE :          | FORMAT :                                                                                                                                                                                | REV.NO. |      |             |
| ENGINEERING                                                                           | 1 : 120          | A3                                                                                                                                                                                      | R0      |      |             |
| PROJECT CODE:                                                                         | DOCUMENT NO.     | SHEET :                                                                                                                                                                                 |         |      |             |
| 17817                                                                                 | 17817_BTE_CD_102 | 1/1                                                                                                                                                                                     |         |      |             |