

STRUCTURAL NOTES



PLAN



SECTION

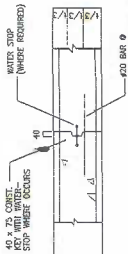
NOTE

1. ALL CORNER BARS SHALL BE BOLD.
2. THE NO. OF BARS & BARS SIZE AT BARS ARE TO BE
3. THE NO. OF BARS & BARS SIZE OF THE BARS OTHER THAN THE CORNER BARS SHALL BE BOLD.

NOTES ON LAP SPICE

1. CENTER LINE OF SPICE SHALL BE WITH CENTER HALF OF CLEAR SPACING BETWEEN REINFORCING BARS IN TENSION OR COMPRESSION AS REQUIRED. AT LEAST 1/3 OF THE SPACED YIELD STRENGTH OF THE BARS.
2. MAXIMUM SPACING OF TIES IN LAP JOINT (S) SHALL BE:
 - a) 4/4 OF SMALLEST COLUMN DIMENSION
 - b) BUT NOT LESSER THAN 100mm AND NOT GREATER THAN 150mm.
 - c) NOT MORE THAN 3/4 OF THE BARS SHALL BE SPACED WITHIN THE DESIGNATED LAP JOINT
3. MECHANICAL SPICE SHALL BE PROVIDED TO BE USED AT ANY SPICE WHERE THE DESIGNATED LAP JOINT IS SPECIFIED THROUGHOUT THE DRAWING.

1 R. C. WALL CONSTRUCTION JOINT



40 x 75 CONCRETE STOP-WHERE REQUIRED

412 x 1000 LONG

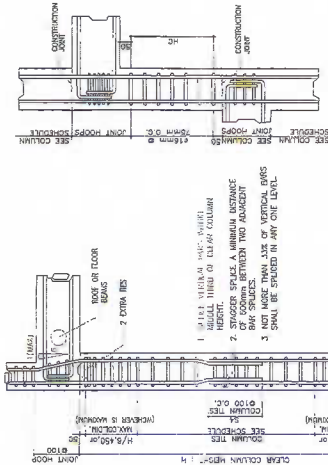
412 x 1000 (TYP.)

412 x 1000 (TYP.)

2-#16 EACH FACE (TYP.)

2-#16 EACH FACE (TYP.)

2 NON-BEARING WALL EXTERIOR WINDOW & DOOR OPENINGS



1. 300mm VERTICAL REINFORCING BARS AT EACH CORNER HEIGHT.
2. STRONGER SPICES AT IMMEDIATE INSTANT OF BARS SPICES.
3. NOT MORE THAN 3/4 OF THE BARS SHALL BE SPACED IN ANY ONE LEVEL.

NOTES:

1. FOR NO. & 1000mm PROVIDE CONCENTRATION AS SHOWN
2. ALL BARS SHALL HAVE INCL. 135 DEG BEND
3. ALL BARS SHALL HAVE INCL. 135 DEG BEND

COLUMN DETAILS DUE TO DIFFERENT ELEVATION

REINFORCED CONCRETE COLUMN DETAIL

3 MISCELLANEOUS COLUMN DETAILS



PLAN

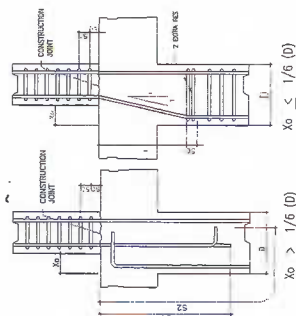


SECTION

NOTES:

1. THE SE-CORNER BARS SHALL BE LOCATED WITHIN THE CORNER OF A COLUMN OR OF A SECONDARY MEMBER X₀ = 1/6 (D)
2. X₀ = 1/6 (D)

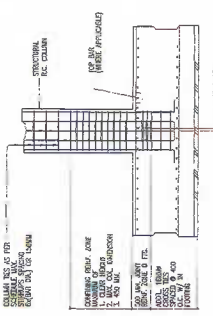
SEISMIC RESISTANT COLUMN SPLICING DETAIL



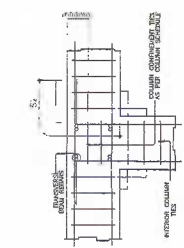
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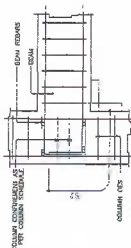
DETAILS DUE TO COLUMN OFFSETS



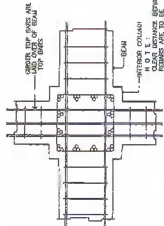
COLUMN VERTICAL BARS EMBEDMENT TO FOOTING DETAIL



INTERIOR COLUMN TERMINATION BEND



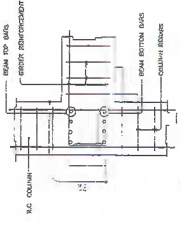
BEAM REBAR TERMINATION BEND



TYPICAL PLAN OF BEAM / GIRDER COLUMN JOINT

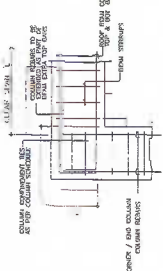


A) AT GIRDER SPAN



B) AT COLUMN INTERSECTION

TYP. BEAM AND GIRDER REBAR LAYOUT



CORNER / INTERIOR COLUMN TERMINATION BEND

<p>PREPARED BY:</p> <p>ROMBLON STATE UNIVERSITY</p> <p>OFFICE OF AUXILIARY, PLANT SERVICES AND POLLUTION CONTROL UNIT</p>	<p>PROJECT TITLE:</p> <p>PROPOSED CONSTRUCTION OF RESEARCH BUILDING</p> <p>LOCATION: ROMBLON STATE UNIVERSITY - Main Campus, Iwanag, Ubungay, Romblon</p>	<p>SHEET CONTENT:</p> <p>AS SHOWN</p>	<p>PREPARED BY:</p> <p>CAD OPERATOR:</p> <p>Menwele Botoni</p> <p>JOB NO.:</p> <p>DATE: JUNE 2017</p>
<p>DESIGNED BY:</p> <p>JEROME AMORIN E. FAJARITO</p> <p>APPROVED BY:</p> <p>SILVERIO S. SALMINGO</p>	<p>PROJECT TITLE:</p> <p>PROPOSED CONSTRUCTION OF RESEARCH BUILDING</p> <p>LOCATION: ROMBLON STATE UNIVERSITY - Main Campus, Iwanag, Ubungay, Romblon</p>	<p>SHEET CONTENT:</p> <p>AS SHOWN</p>	<p>PREPARED BY:</p> <p>CAD OPERATOR:</p> <p>Menwele Botoni</p> <p>JOB NO.:</p> <p>DATE: JUNE 2017</p>
<p>PRG. REG. NO. : 0156922</p> <p>PTER No. : 1795904</p> <p>Date : 1-27-17</p> <p>Place: SAN JOSE, ROMBLON TIN: 445-372-742-000</p>	<p>PROJECT TITLE:</p> <p>PROPOSED CONSTRUCTION OF RESEARCH BUILDING</p> <p>LOCATION: ROMBLON STATE UNIVERSITY - Main Campus, Iwanag, Ubungay, Romblon</p>	<p>SHEET CONTENT:</p> <p>AS SHOWN</p>	<p>PREPARED BY:</p> <p>CAD OPERATOR:</p> <p>Menwele Botoni</p> <p>JOB NO.:</p> <p>DATE: JUNE 2017</p>



STRUCTURAL NOTES

GENERAL NOTES ON STRUCTURAL STEEL

1. ALL MATERIALS SHALL BE CONFORM TO THE FOLLOWING UNLESS OTHERWISE NOTED:

- STRUCTURAL STEEL : ASTM A572 OR APPROVED EQ
- STRUCTURAL STEEL PIPE : ASTM A513 GRADE B OR APPROVED EQ
- WELDS : AWS D1.1 OR APPROVED EQ
- PRIMARY STRUCTURAL BOLT : ASTM A508 TYPE A OR APPROVED EQ
- CHECKERED PLATE : ASTM A588 OR APPROVED EQ
- GRATING : ASTM A572 OR APPROVED EQ
- ELECTRODES : ASTM D11.1 EXXX OR APPROVED EQ

2. HIGH STRENGTH BOLTS :
 (a) HIGH STRENGTH BOLTS SHALL BE USED IN TYPICAL TYPE CONNECTIONS.
 BOLTS SHALL BE SING-ROST.

(b) FOLLOWING DIMENSIONS SHALL BE APPLIED UNLESS OTHERWISE NOTED:

MIN. HOLE DIA. (MM)	MIN. HOLE DIA. (IN)
18	24
22	28
50	70
80	100
30	35
40	45

3. PRIMARY STRUCTURAL BOLTS

(a) BOLT THREAD AND HOLE SHALL BE CONFORM TO AWS D1.1 (1982) AND ANSI B18.2.2 (1963) OR ISO 262.

(b) DIMENSIONS OF BOLT HOLE DIAMETER, STANDARD BOLT RICH AND STANDARD EDGE DISTANCE SHALL BE SAME TO THAT OF HIGH STRENGTH BOLTS.

4. LEG LENGTH OF FILLET WELD FOR GUSSET PLATE, RIS PLATE, BUTT PLATE AND SPLITTER PLATE, UNLESS OTHERWISE NOTED:

PLATE THICKNESS (MM)	LEG LENGTH (MM)
5	5
6	6
8	8
10	10
11	11
12	12
14	14
16	16

5. FABRICATION AND ERECTION TOLERANCE SHALL BE CONFORM TO THE MEASUREMENT OF STEEL CONSTRUCTION (AWS).

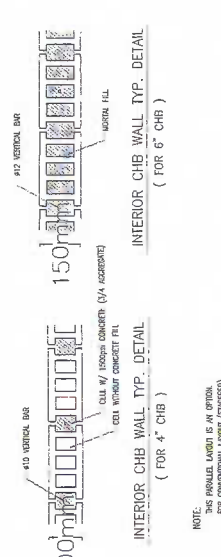
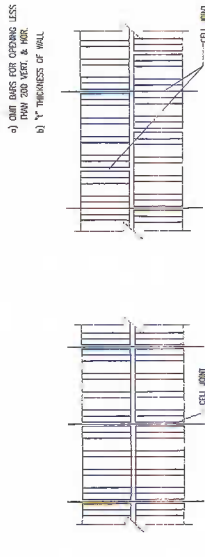
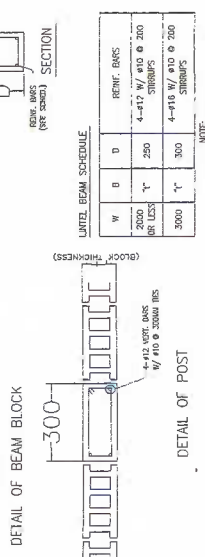
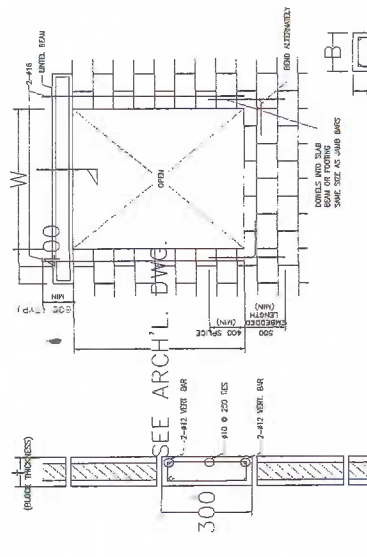
6. FINISH :
 STRUCTURAL STEEL HAS BEEN SURFACE PREPARED AND PAINTED IN ACCORDANCE WITH THE CONSTRUCTION SPECIFICATION.

REFERENCE GUIDE SYMBOLS

FOR THE PURPOSE OF GIVING FURTHER DETAILS, SECTIONAL VIEWS AND STANDARDIZED TYPES TO BE REFERRED "REFERENCE GUIDE SYMBOLS" AS DESCRIBED BELOW ARE USED IN THE RELEVANT ENGINEERING DRAWINGS TO MAKE THE REFERENCE RELATION SIMPLE AND CLEAR.

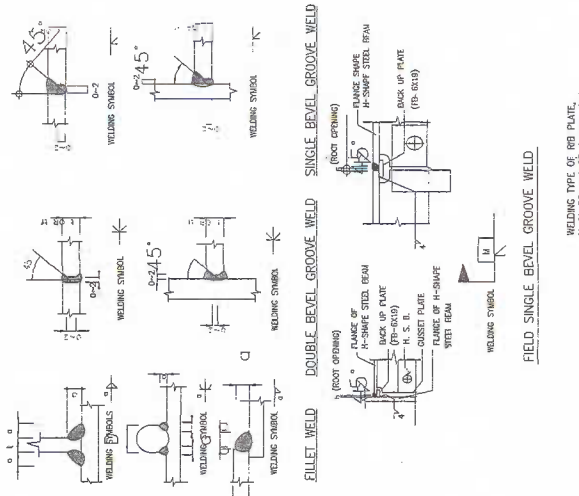
- 1) SYMBOL TO QUOTE STANDARD DETAIL
- 2) SYMBOL TO QUOTE INDIVIDUAL DETAIL OR SECTIONAL VIEW WHICH ARE NOT STANDARDIZED

GENERAL NOTES ON STRUCTURAL STEEL



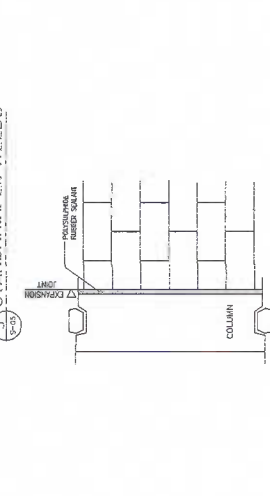
CONCRETE MASONRY UNIT

NOTE: THE PARALLEL LAYOUT IS AN OPTION FOR CONVENTIONAL LAYOUT (SHOWN) REFER TO 2-5 MASONRY BLOCK WALL.



WELDING TYPE OF JOINT	WELDING SYMBOL
FILLET WELD	(Symbol)
DOUBLE BEVEL GROOVE WELD	(Symbol)
SINGLE BEVEL GROOVE WELD	(Symbol)

STANDARDIZED WELDS

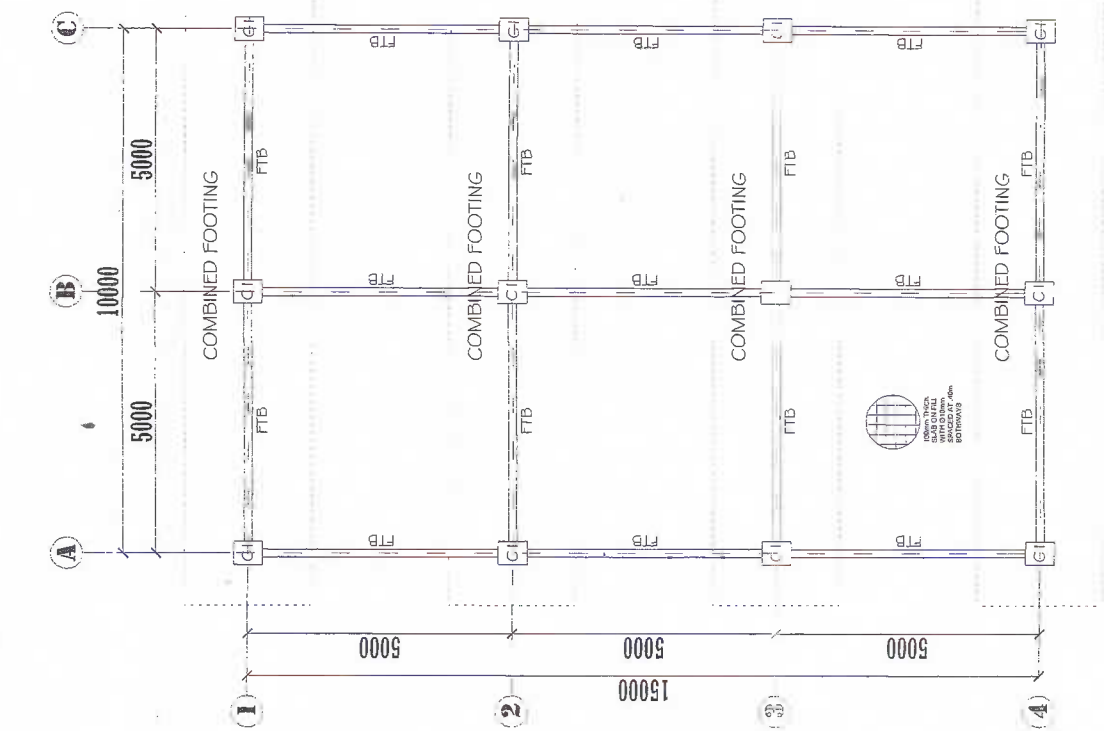
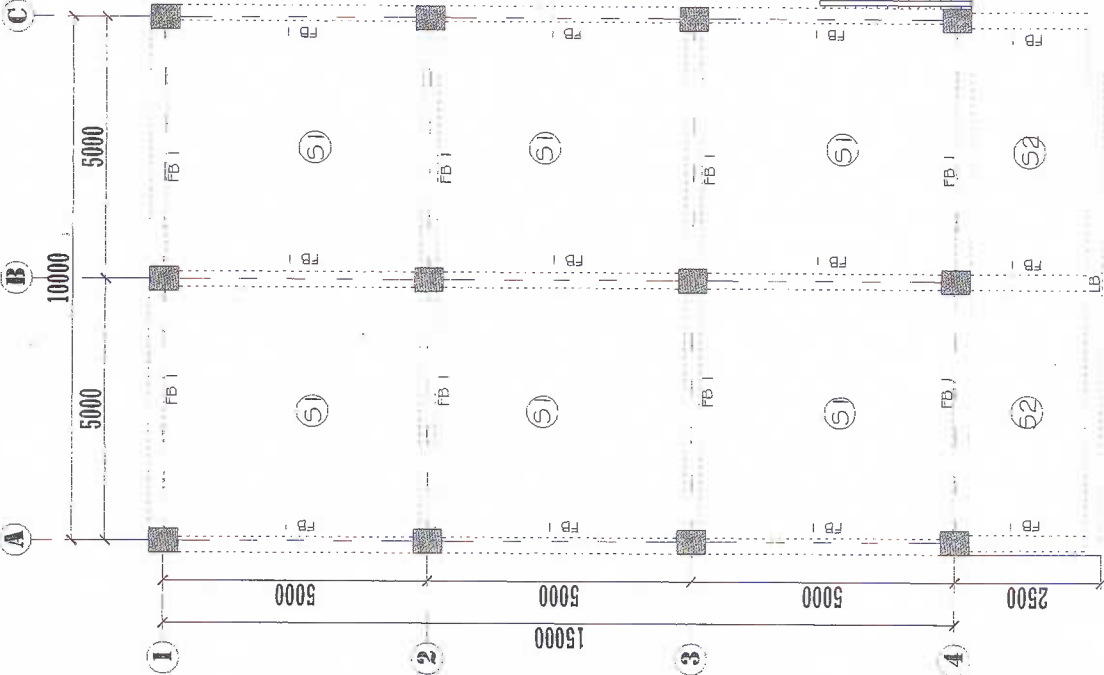


MISCELLANEOUS DETAIL (WALL EXPANSION JOINT)



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LOCATION: ROMBLON STATE UNIVERSITY - Main Campus, Iwasag, Olongapo, Romblon



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	LOCATION: ROMBLON STATE UNIVERSITY - Main Campus, Ilijanag, Otiapan, Romblon					