



# STRUCTURAL NOTES

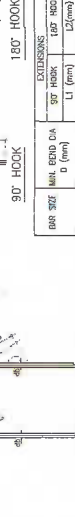
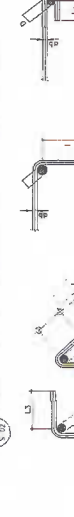
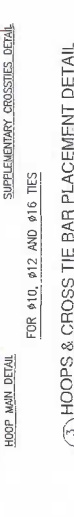
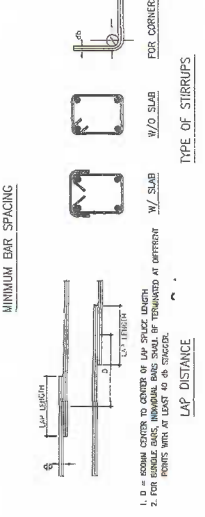
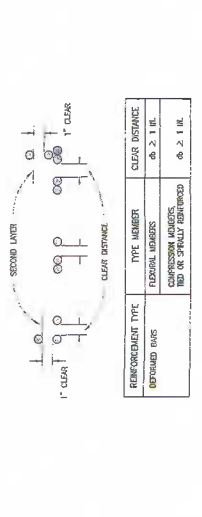
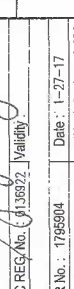
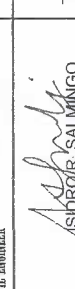
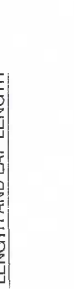
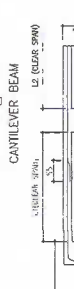
$f_c = 27.50 \text{ MPa (4000)}$  For #12 and smaller  
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 $f_y = 413.7 \text{ MPa (6000)}$  For #12 and smaller  
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BARS	MINIMUM LAP LENGTHS		MINIMUM LAP LENGTHS	
	5d	16d	5d	16d
#10	440	720	200	300
#12	530	870	240	360
#14	620	1020	280	420
#16	710	1170	320	480
#18	800	1320	360	540
#20	890	1470	400	600
#22	980	1620	440	660
#24	1070	1770	480	720
#26	1160	1920	520	780
#28	1250	2070	560	840
#30	1340	2220	600	900
#32	1430	2370	640	960
#36	1610	2760	720	1080
#40	1790	3150	800	1200

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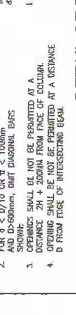
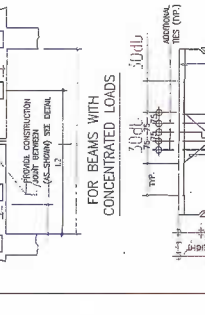
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#40	1790	3150	800	1200

NOTE: 1. DEVELOPMENT LENGTHS FOR TENSION OR COMPRESSION SHALL BE INCREASED BY:  
 a. 30% FOR TOP BARS IN BEAMS;  
 b. 30% FOR TOP BARS IN GIRDER;  
 c. 30% FOR TOP BARS IN CANTILEVER BEAMS;  
 d. 30% FOR TOP BARS IN WALLS;  
 e. 30% FOR TOP BARS IN SLABS;  
 f. 30% FOR TOP BARS IN DECK SLABS;  
 g. 30% FOR TOP BARS IN DECK SLABS;  
 h. 30% FOR TOP BARS IN DECK SLABS;  
 i. 30% FOR TOP BARS IN DECK SLABS;  
 j. 30% FOR TOP BARS IN DECK SLABS;  
 k. 30% FOR TOP BARS IN DECK SLABS;  
 l. 30% FOR TOP BARS IN DECK SLABS;  
 m. 30% FOR TOP BARS IN DECK SLABS;  
 n. 30% FOR TOP BARS IN DECK SLABS;  
 o. 30% FOR TOP BARS IN DECK SLABS;  
 p. 30% FOR TOP BARS IN DECK SLABS;  
 q. 30% FOR TOP BARS IN DECK SLABS;  
 r. 30% FOR TOP BARS IN DECK SLABS;  
 s. 30% FOR TOP BARS IN DECK SLABS;  
 t. 30% FOR TOP BARS IN DECK SLABS;  
 u. 30% FOR TOP BARS IN DECK SLABS;  
 v. 30% FOR TOP BARS IN DECK SLABS;  
 w. 30% FOR TOP BARS IN DECK SLABS;  
 x. 30% FOR TOP BARS IN DECK SLABS;  
 y. 30% FOR TOP BARS IN DECK SLABS;  
 z. 30% FOR TOP BARS IN DECK SLABS;

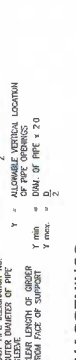
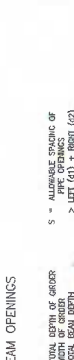
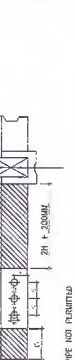
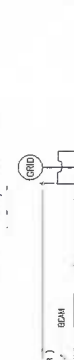
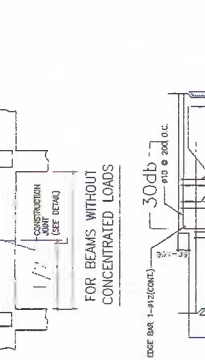


SCHEDULE OF RADIAL CROSS BARS

NO. OF BARS	BEAM WIDTH
2 - #16	UP TO 1250mm
2 - #20	200mm TO 500mm
4 - #20	500mm TO 1000mm
6 - #25	1000mm TO 2000mm



NOTES ON HORIZONTAL JOINTS  
 1. CONCRETE CONSTRUCTION JOINTS SHALL BE LOCATED AT 1/2 OF THE BEAM WIDTH FROM THE FACE OF THE BEAM.  
 2. JOINTS SHALL BE REINFORCED WITH 2-#16 BARS.  
 3. JOINTS SHALL BE REINFORCED WITH 2-#16 BARS.  
 4. JOINTS SHALL BE REINFORCED WITH 2-#16 BARS.  
 5. JOINTS SHALL BE REINFORCED WITH 2-#16 BARS.  
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 10. JOINTS SHALL BE REINFORCED WITH 2-#16 BARS.



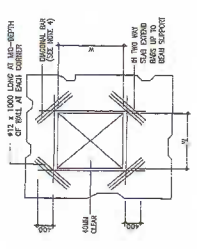
S-2

PREPARED BY: ROMBLON STATE UNIVERSITY  
 OFFICE OF AUXILIARY, PLANT SERVICES AND POLLUTION CONTROL UNIT  
 PROJECT TITLE: PROPOSED CONSTRUCTION OF RESEARCH BUILDING  
 LOCATION: ROMBLON STATE UNIVERSITY - Main Campus, Avitama, Oribongan, Romblon  
 CHECKED BY: JEROME AMORIO D. FALARITO, Director  
 APPROVED BY: DR. R. SALMANGO, President  
 CAD OPERATOR: Nene M. Rotoni  
 JOB NO.:  
 DATE: JUNE 2017  
 PREPARED BY: AS SHOWN  
 SHEET CONTENT: AS SHOWN  
 PROJECT TITLE: PROPOSED CONSTRUCTION OF RESEARCH BUILDING  
 LOCATION: ROMBLON STATE UNIVERSITY - Main Campus, Avitama, Oribongan, Romblon  
 CHECKED BY: JEROME AMORIO D. FALARITO, Director  
 APPROVED BY: DR. R. SALMANGO, President  
 PRC REG. No. (136922, Validity  
 PFR No.: 1795904 Date: 1-27-17  
 PRC No.: 1795904 Date: 1-27-17  
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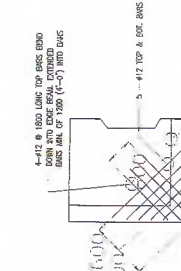


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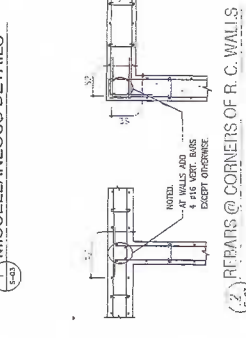
- NOTES :**
1. PROVIDE REINFORCING BARS FOR ALL CHANGES IN SLAB THICKNESS TO SIZE OF OPENING EQUAL TO THE HANSEK OF TERMINATED BARS AT REINFORCE.
  2. SEE ARCHITECTURAL & MECHANICAL PLANS FOR SLAB OPENING LOCATION.
  3. CHAIR REINFORCING BARS SHOULD BE PROVIDED BY ISAL.
  4. BRIDGELIKE BARS - 2-#12 TOP & BOTTOM REINFORCING BARS WITH 100mm CLEARANCE FROM EACH OTHER.
  5. PROVIDE 100mm OF CONCRETE AT CORNER (TYPICAL).
  6. PROVIDE 100mm OF CONCRETE AT CORNER (TYPICAL).
  7. PROVIDE 100mm OF CONCRETE AT CORNER (TYPICAL).
  8. PROVIDE 100mm OF CONCRETE AT CORNER (TYPICAL).
  9. PROVIDE 100mm OF CONCRETE AT CORNER (TYPICAL).
  10. PROVIDE 100mm OF CONCRETE AT CORNER (TYPICAL).



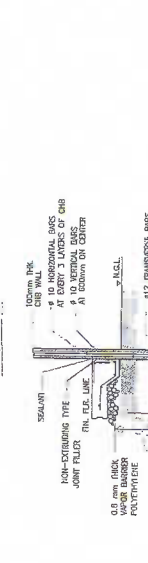
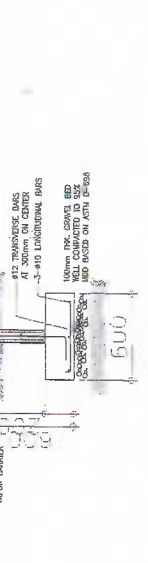
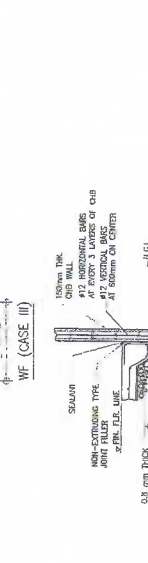
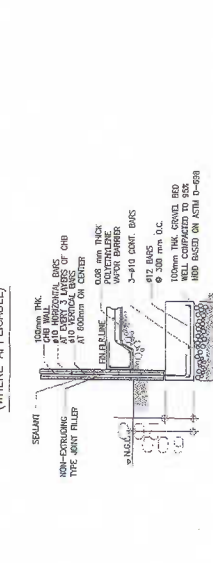
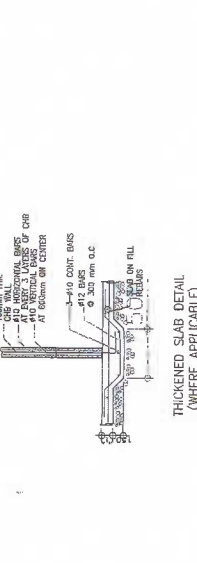
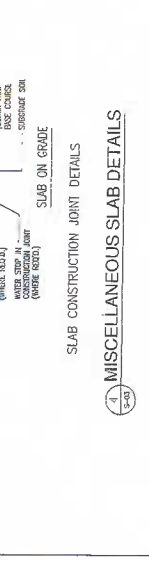
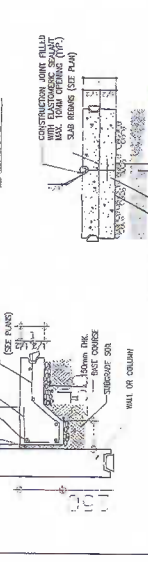
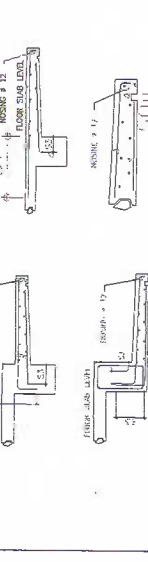
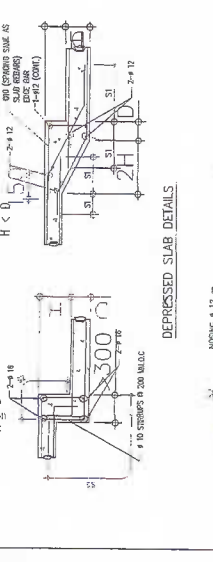
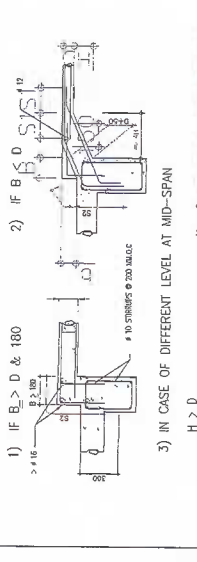
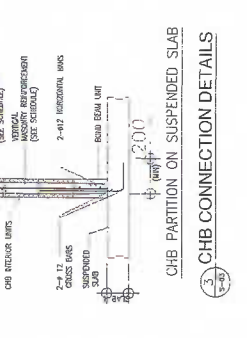
## SLAB OPENING DETAIL



## MISCELLANEOUS DETAILS



## CHB CONNECTION DETAILS



<b>PREPARED BY :</b> ROMBLON STATE UNIVERSITY OFFICE OF AUXILIARY, PLANT SERVICES AND POLLUTION CONTROL UNIT	<b>CHECKED BY :</b> JEROME A. DELA CRUZ, Engr. APPROVED BY: JESUS M. DELA CRUZ, Engr.	<b>PROJECT TITLE :</b> PROPOSED CONSTRUCTION OF RESEARCH BUILDING	<b>AS SHOWN</b>	<b>PREPARED BY :</b> CAD OPERATOR: Newwelle Antoni	S-3
				<b>JOB NO. :</b>	
<b>LOCATION :</b> ROMBLON STATE UNIVERSITY - Irian Campus, Irawanig, Olinapan, Romblon					