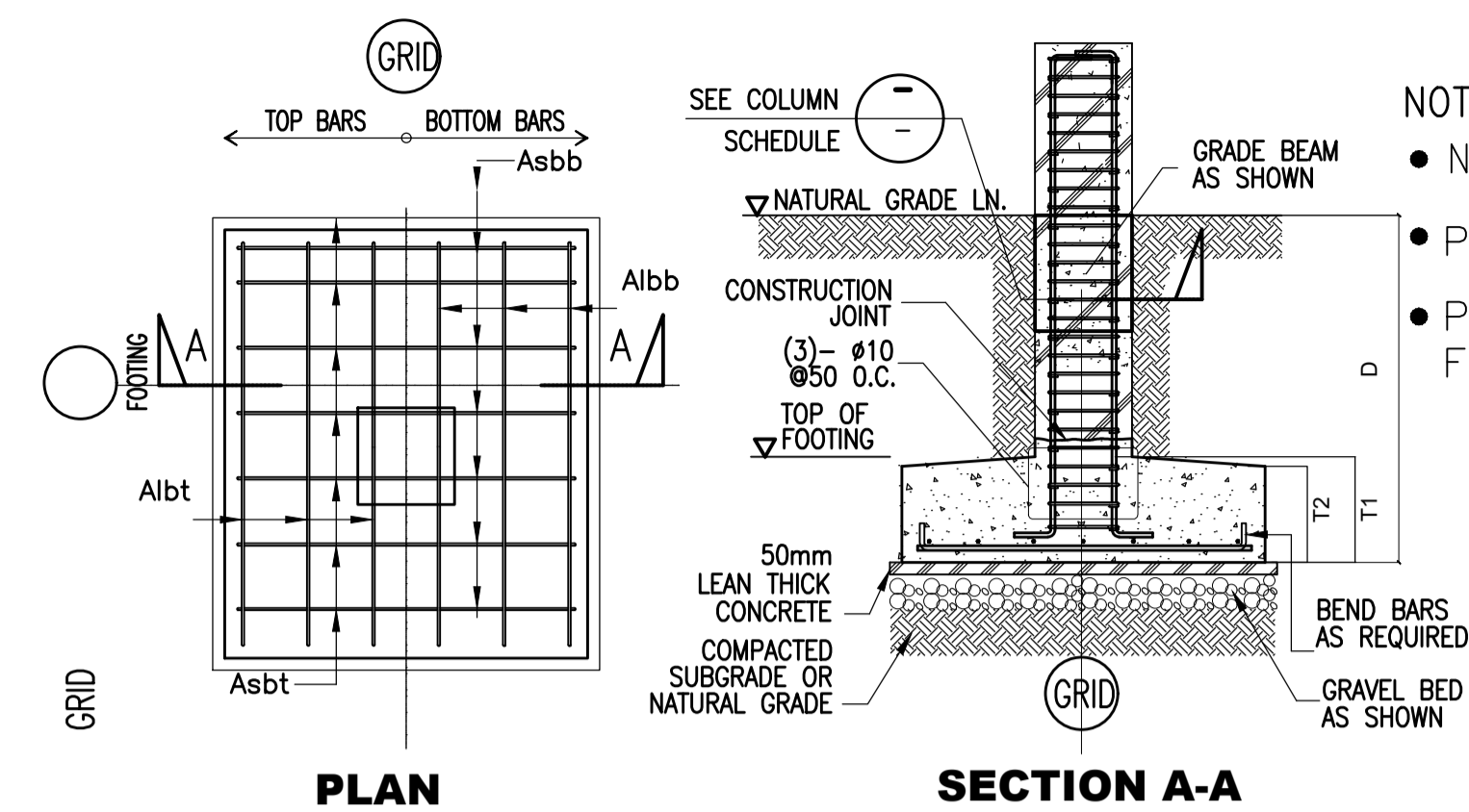


ACADEMIC BUILDING II
ROOF SLAB ABOVE DECK

SCALE: 1:100

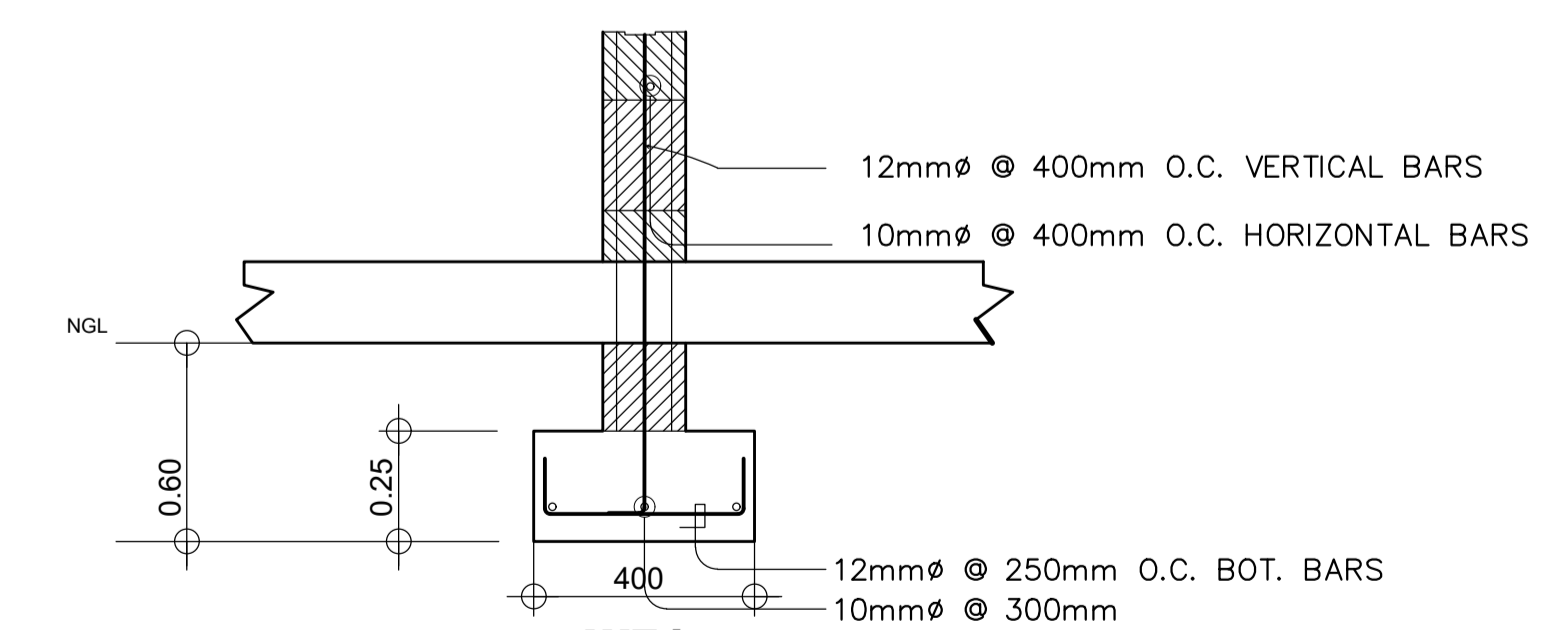


- NOTES :
- NO FOOTING SHALL REST ON FILL.
 - PROVIDE COMPACTED BACKFILL (95% MDD)
 - PROVIDE ADEQUATE LATERAL SUPPORT FOR ANY EXCAVATION.

ACADEMIC BUILDING 2
SCHEDULE OF FOOTINGS

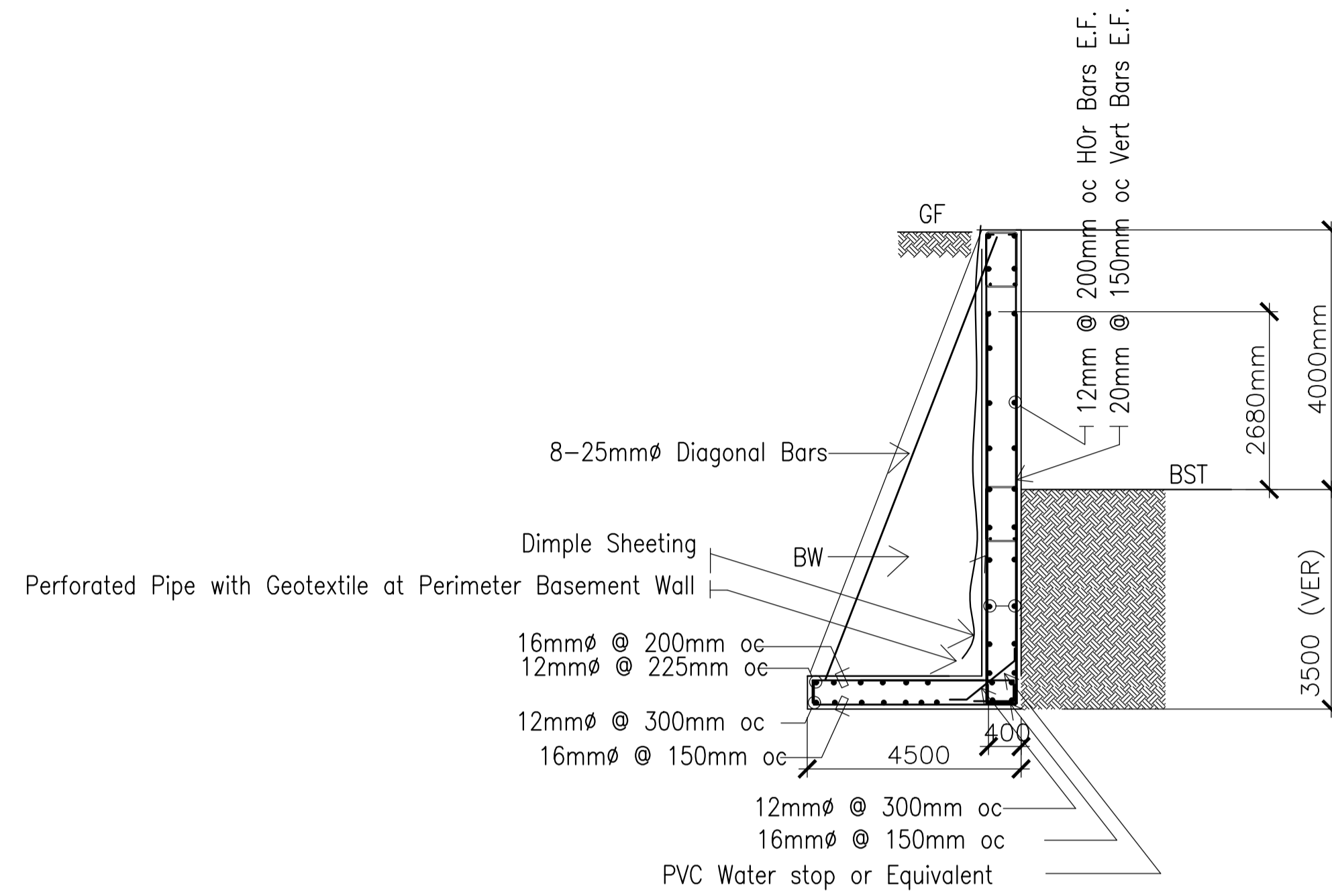
MARK	THICKNESS		DIMENSIONS		BAR REINFORCEMENT			DEPTH OF EXCAVATION	REMARKS
	T1	T2	WIDTH (W)	LENGTH (L)	BAR LOC.	@X-DIRECTION	@Y-DIRECTION		
F1	800	500	3200	3200	BOT	16-25mmØ	16-25mmØ	3.5m. below elev. 90 (VER)	ISOLATED
F2	700	500	2850	2850	BOT	14-25mmØ	14-25mmØ	3.5m. below elev. 90 (VER)	ISOLATED
F3	750	500	3000	3000	BOT	14-25mmØ	14-25mmØ	3.5m. below elev. 90 (VER)	ISOLATED
F4	650	500	2700	2700	BOT	12-25mmØ	14-25mmØ	3.5m. below elev. 90 (VER)	ISOLATED
F5	550	400	2200	2200	BOT	8-25mmØ	8-25mmØ	3.5m. below elev. 90 (VER)	ISOLATED
F6	500	300	2100	2100	BOT	7-25mmØ	7-25mmØ	3.5m. below elev. 90 (VER)	ISOLATED
F7	500	300	2000	2000	BOT	7-25mmØ	7-25mmØ	3.5m. below elev. 90 (VER)	ISOLATED
F8	450	300	1800	1800	BOT	7-25mmØ	7-25mmØ	3.5m. below elev. 90 (VER)	ISOLATED
F9	550	300	2150	2150	BOT	7-25mmØ	7-25mmØ	3.5m. below elev. 90 (VER)	ISOLATED
F10	500	300	2100	2100	BOT	7-25mmØ	7-25mmØ	3.5m. below elev. 90 (VER)	ISOLATED
F11	750	500	3000	3000	BOT	14-25mmØ	14-25mmØ	3.5m. below elev. 90 (VER)	ISOLATED
F12	700	500	2700	2700	BOT	12-25mmØ	14-25mmØ	3.5m. below elev. 90 (VER)	ISOLATED
F14	600	400	2300	2300	BOT	8-25mmØ	8-25mmØ	3.5m. below elev. 90 (VER)	ISOLATED
F15	700	500	2850	2850	BOT	14-25mmØ	14-25mmØ	3.5m. below elev. 90 (VER)	ISOLATED
F16	700	500	2900	2900	BOT	14-25mmØ	14-25mmØ	3.5m. below elev. 90 (VER)	ISOLATED
F17	600	400	2400	2400	BOT	9-25mmØ	9-25mmØ	3.5m. below elev. 90 (VER)	ISOLATED
F18	550	400	2200	2200	BOT	8-25mmØ	8-25mmØ	4.5m. below elev. 93 (VER)	ISOLATED
F19	600	400	2400	2400	BOT	8-25mmØ	8-25mmØ	4.5m. below elev. 93 (VER)	ISOLATED
F20	500	300	2100	2100	BOT	7-25mmØ	7-25mmØ	4.5m. below elev. 93 (VER)	ISOLATED
F21	450	300	1700	1700	BOT	5-25mmØ	5-25mmØ	4.5m. below elev. 93 (VER)	ISOLATED
PELF1	600	600	2800	4000	TOP	14-20mmØ	20-20mmØ	4.5m. below elev. 93 (VER)	ISOLATED
					BOT	14-25mmØ	20-25mmØ		

NOTES:
- Basement Floor Level is at Elevation +90m (verify architectural)

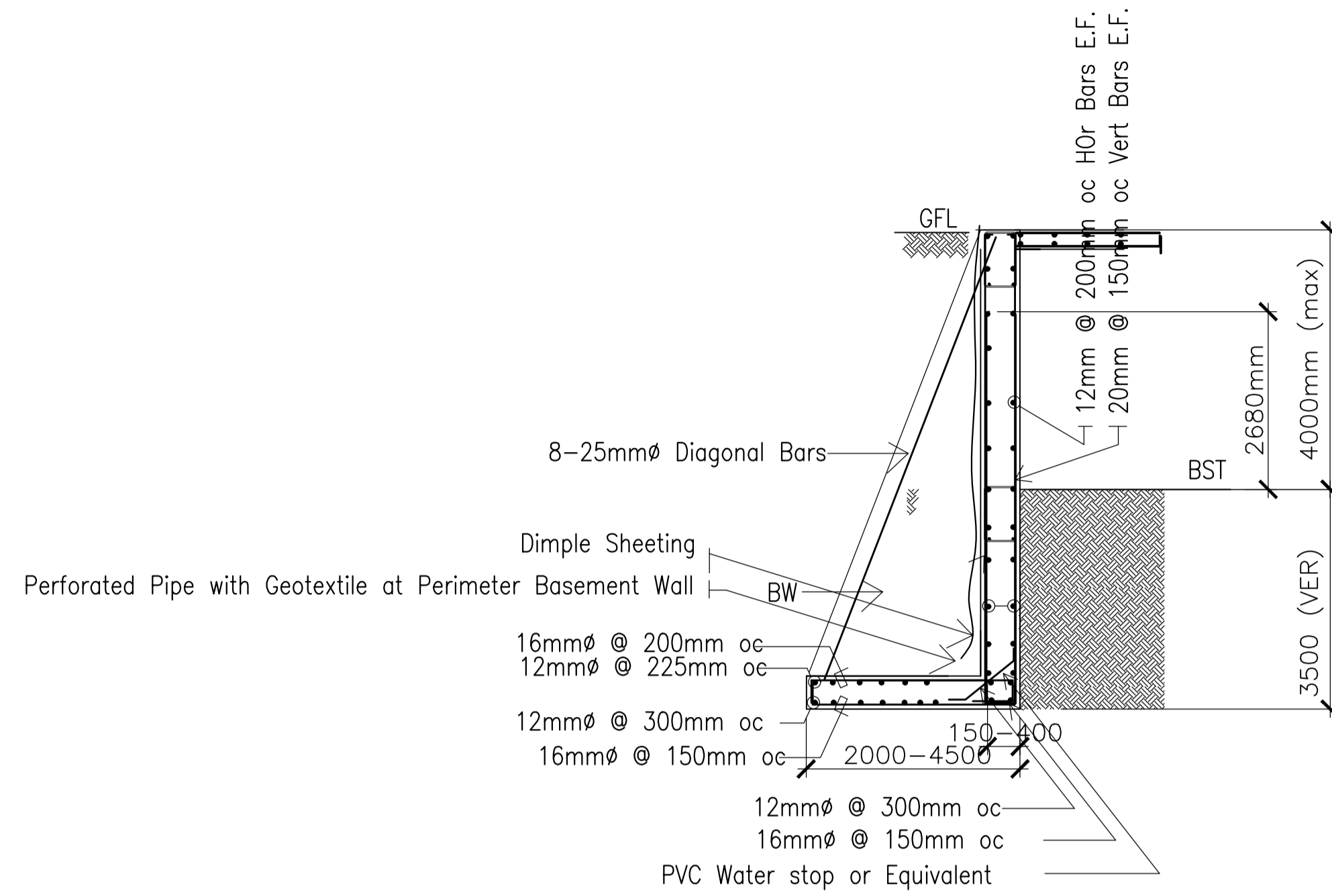


WF1
WALL FOOTING DETAIL

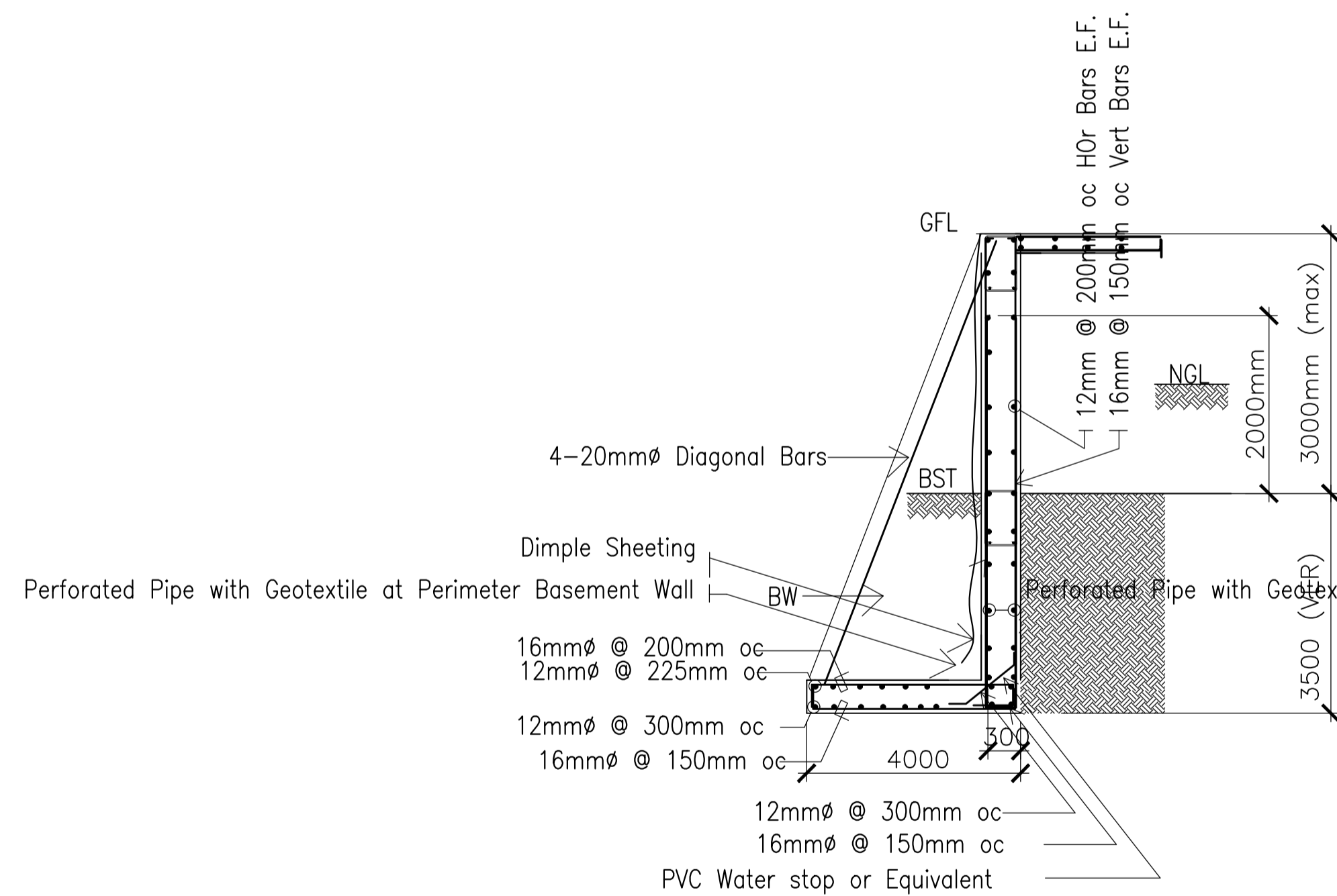
<p>ENRIQUE O. OLONAN & ASSOCIATES ARCHITECTS ENGINEERS CONSULTANTS</p> <p>IN JOINT VENTURE WITH</p> <p>ENRIQUE O. OLONAN & ASSOCIATES, CO. ARCHITECTS ENGINEERS CONSULTANTS</p>	<p>ENGINEER:</p> <p>ARNEL NIXON D. TAÑAZANA STRUCTURAL ENGINEER</p> <p>PRC No. 0078960 Validity: 04-14-2023</p> <p>PTR No. 8676828 Date: 01-07-2021</p> <p>Place: MARIKINA CITY TIN: 192-932-067</p>	<p>REPUBLIC ACT 9266</p> <p><small>DRAWINGS AND SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS DULY SIGNED, STAMPED OR SEALED, AS INSTRUMENTS OF SERVICE, ARE THE INTELLECTUAL PROPERTY AND DOCUMENT OF THE ARCHITECT. WHETHER THE OBJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT, IT SHALL BE UNLAWFUL FOR ANY PERSON TO DUPLICATE OR TO MAKE COPIES OF SAID DOCUMENTS FOR USE IN THE REPRODUCTION OF AND FOR OTHER PROJECTS OR BUILDINGS, WHETHER EXECUTED PARTLY OR IN WHOLE, WITHOUT THE WRITTEN CONSENT OF ARCHITECT OR AUTHOR OF SAID DOCUMENT.</small></p>	<p>PROJECT:</p> <p>PROPOSED ACADEMIC BUILDING II</p> <p>LOCATION: Brgy. Rizal, Odiangan, Romblon</p>	<p>DESIGNED FOR:</p> <p>REPUBLIC OF THE PHILIPPINES PHILIPPINE SCIENCE HIGH SCHOOL - MIMAROPA REGIONAL CAMPUS</p>	<p>RECOMMENDING APPROVAL:</p> <p>MERIAM F. FALLAR FAD CHIEF</p>	<p>APPROVED BY:</p> <p>EDWARD C. ALBARACIN CAMPUS DIRECTOR</p>	<p>SHEET CONTENTS:</p> <p>ROOFSLAB ABOVE DECK</p>	<p>SHEET NO:</p> <p>S 11 19</p>
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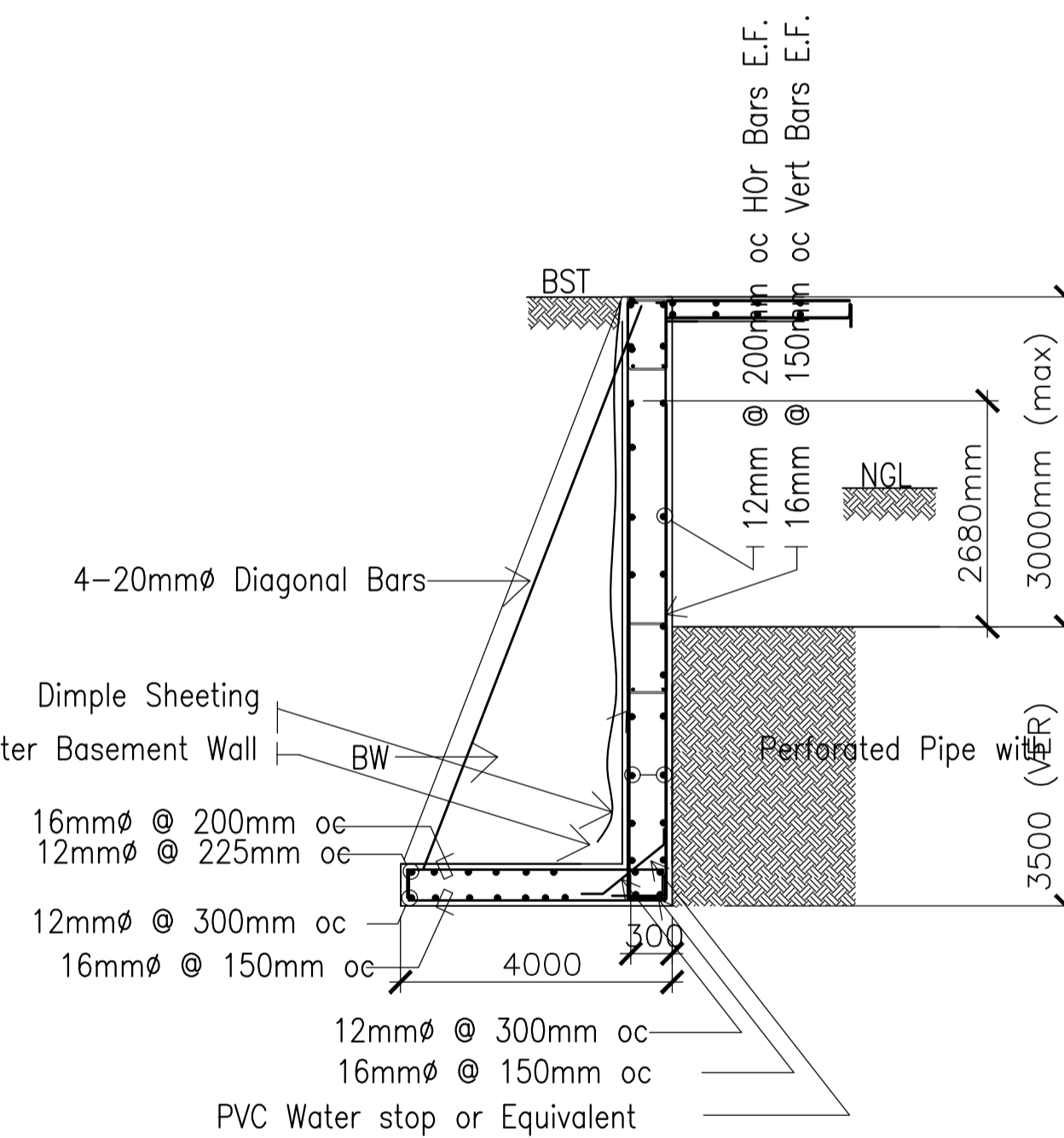
RW1/RWF1



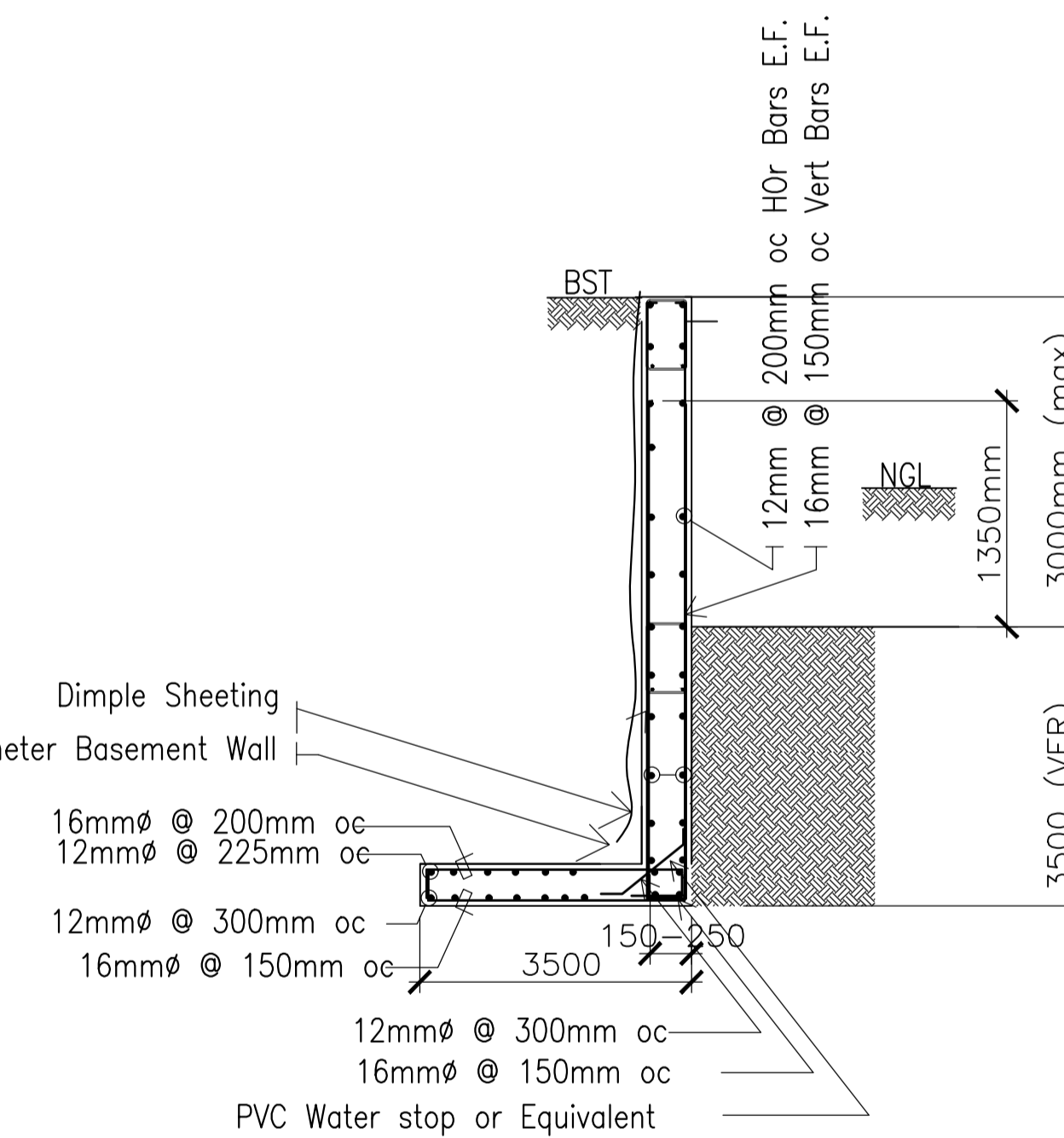
RW4/RWF4



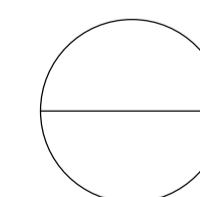
RW2/RWF2



RW3/RWF3



RW3ARWF3A



RETAINING WALL DETAIL

SCALE:

NTS

NOTES:
 - BW (Butress Wall) : 150mm thk with
 12mm @ 200mm OC VB EF &
 10mm @ 200mm OC HB EF

ENRIQUE O. OLONAN & ASSOCIATES
 ARCHITECTS ENGINEERS CONSULTANTS
 IN JOINT VENTURE WITH
ENRIQUE O. OLONAN & ASSOCIATES, CO.
 ARCHITECTS ENGINEERS CONSULTANTS

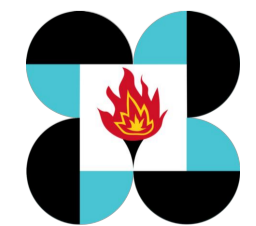
SUITE 305
 XAVIERVILLE SQUARE
 CONDOMINIUM
 NO. 38 XAVIERVILLE
 AVENUE, LAYUNGA HEIGHTS,
 QUEZON CITY, 1108
 TEL. NOS: 426 7009;
 426 3900-04
 FAX NOS: 927 0608;
 426 7214

ENGINEER:	
ARNEL NIXON D. TAÑAZANA STRUCTURAL ENGINEER	
PRC No. 0078960	Validty: 04-14-2023
PTR No. 8676828	Date: 01-07-2021
Place: MARIKINA CITY	TIN: 192-932-067

REPUBLIC ACT 9266
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PROJECT:	PROPOSED ACADEMIC BUILDING II
LOCATION:	Brgy. Rizal, Odiangan, Romblon

DESIGNED FOR:



REPUBLIC OF THE PHILIPPINES
 PHILIPPINE SCIENCE HIGH SCHOOL -
 MIMAROPA REGIONAL CAMPUS

RECOMMENDING APPROVAL:	MERIAM F. FALLAR FAD CHIEF
------------------------	--------------------------------------

APPROVED BY:	EDWARD C. ALBARACIN CAMPUS DIRECTOR
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SHEET CONTENTS:	FOOTING SCHEDULE
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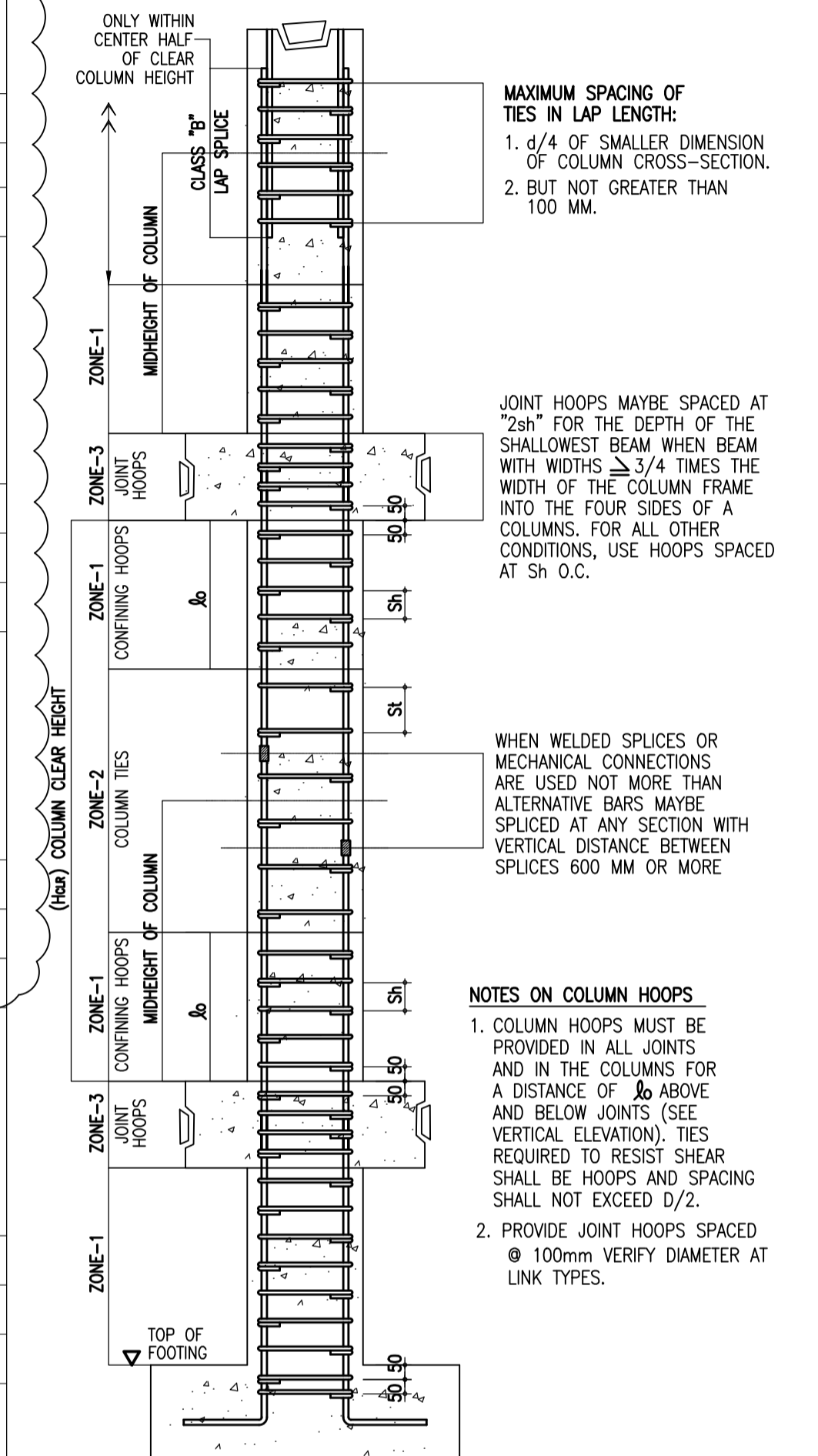
SHEET NO:
S
12 19

SCHEDULE OF COLUMN

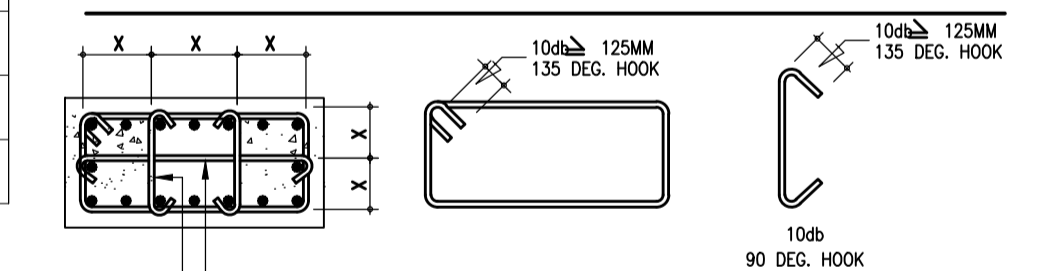
FOR REFERENCE ONLY, EXCLUDED IN PHASE 1

LEVEL	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12
ROOFDECK TO ROOFSLAB												
DIMENSIONS		300x600	300x600	300x600								300x600
VERTICAL BARS		12-20mmØ	12-20mmØ	12-20mmØ								12-20mmØ
TIES		C	C	C								C
THIRD TO ROOFDECK												
DIMENSIONS	350x600	350x600	350x600	350x600	350x600	350x600	350x600	350x600	350x600	350x600	350x600	350x600
VERTICAL BARS	16-25Ø/8-20Ø	16-25Ø/8-20Ø	16-25Ø/8-20Ø	16-25Ø/8-20Ø	16-25Ø/8-20Ø	8-25mmØ/12-20Ø	8-25mmØ/12-20Ø	8-25mmØ/12-20Ø	16-25Ø/8-20Ø	16-25Ø/8-20Ø	16-25Ø/8-20Ø	16-25Ø/8-20Ø
TIES	B	B	B	B	B	B	B	B	B	B	B	B
SECOND TO THIRD FLOOR												
DIMENSIONS	400x650	400x650	400x650	400x650	400x650	400x650	400x650	400x650	400x650	400x650	400x650	400x650
VERTICAL BARS	20-25mmØ/4-20Ø	20-25mmØ/4-20Ø	20-25mmØ/4-20Ø	20-25mmØ/4-20Ø	20-25mmØ/4-20Ø	12-25mmØ/8-20Ø	12-25mmØ/8-20Ø	12-25mmØ/8-20Ø	12-25mmØ/8-20Ø	12-25mmØ/8-20Ø	16-25Ø/8-20Ø	16-25Ø/8-20Ø
TIES	B	B	B	B	B	B	B	B	B	B	B	B
GROUND FLOOR TO SECOND FLOOR												
DIMENSIONS	500x700	500 x700	500x700	500x700	500x700	500x700	500x700	500x700	500x700	500x700	450x650	450x650
VERTICAL BARS	24-25mmØ	24-25mmØ	24-25mmØ	24-25mmØ	24-25mmØ	16-25Ø / 8-20Ø	16-25Ø / 8-20Ø	16-25Ø / 8-20Ø	24-25mmØ	24-25mmØ	20-25mmØ/4-20Ø	20-25mmØ/4-20Ø
TIES	A	A	A	A	A	A	A	A	A	A	A	A
FOUNDATION TO GROUND FLOOR												
DIMENSIONS	500x700	500 x700	500x700	500x700	500x700	500x700	500x700	500x700	500x700	500x700	450x650	450x650
VERTICAL BARS	24-25mmØ	24-25mmØ	24-25mmØ	24-25mmØ	24-25mmØ	20-25Ø / 4-20Ø	20-25Ø / 4-20Ø	20-25Ø / 4-20Ø	24-25mmØ	24-25mmØ	20-25mmØ/4-20Ø	20-25mmØ/4-20Ø
TIES	1	1	1	1	1	1	1	1	1	1	1	1

TYPICAL COLUMN REINFORCEMENT ELEVATION



TYPICAL TRANSVERSE REINF. IN COLUMN



NOTES:
PROVIDE 20mm Concrete Cover for A-ELC1

LINK TYPES :

- 1 - 6 SETS 12mmØ, 1Ø50, rest @ 100mmoc
- A - 6 SETS 12mmØ, 1Ø50 12Ø100 rest @ 150mmoc
- B - 6 SETS Ties, 12mmØ, 1Ø50, 12Ø100 REST @ 200mm OC
- C - 4 SETS 12mmØ Ties, 1Ø50 12Ø100 rest @ 200mmoc

1 COLUMN SCHEDULE
SCALE: NTS

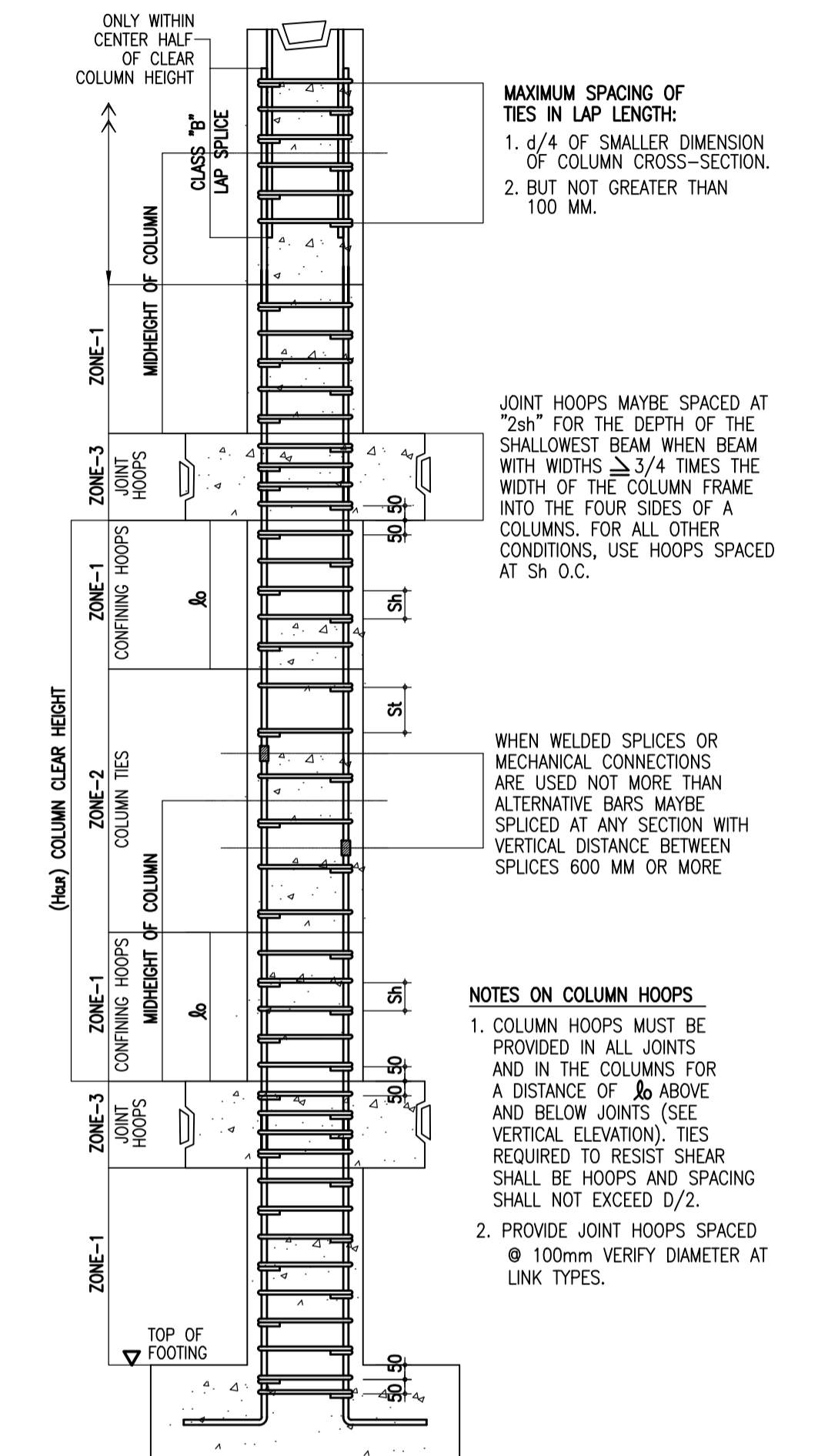
<p>ENRIQUE O. OLONAN & ASSOCIATES ARCHITECTS ENGINEERS CONSULTANTS</p> <p>IN JOINT VENTURE WITH</p> <p>ENRIQUE O. OLONAN & ASSOCIATES, CO. ARCHITECTS ENGINEERS CONSULTANTS</p>	<p>ENGINEER:</p> <p>ARNEL NIXON D. TAÑAZANA STRUCTURAL ENGINEER</p> <p>PRC No. 0078960 Validity: 04-14-2023 PTR No. 8676828 Date: 01-07-2021 Place: MARIKINA CITY TIN: 192-932-067</p>	<p>REPUBLIC ACT 9266</p> <p><small>DRAWINGS AND SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS DULY SIGNED, STAMPED OR SEALED, AS INSTRUMENTS OF SERVICE, ARE THE INTELLECTUAL PROPERTY AND DOCUMENT OF THE ARCHITECT. WHETHER THE OBJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT, IT SHALL BE UNLAWFUL FOR ANY PERSON TO DUPLICATE OR TO MAKE COPIES OF SAID DOCUMENTS FOR USE IN THE REPRODUCTION OF AND FOR OTHER PROJECTS OR BUILDINGS, WHETHER EXECUTED PARTLY OR IN WHOLE, WITHOUT THE WRITTEN CONSENT OF ARCHITECT OR AUTHOR OF SAID DOCUMENT.</small></p>	<p>PROJECT:</p> <p>PROPOSED ACADEMIC BUILDING II</p> <p>LOCATION: Brgy. Rizal, Odiongan, Romblon</p>	<p>DESIGNED FOR:</p> <p>REPUBLIC OF THE PHILIPPINES PHILIPPINE SCIENCE HIGH SCHOOL - MIMAROPA REGIONAL CAMPUS</p>	<p>RECOMMENDING APPROVAL:</p> <p>MERIAM F. FALLAR FAD CHIEF</p>	<p>APPROVED BY:</p> <p>EDWARD C. ALBARACIN CAMPUS DIRECTOR</p>	<p>SHEET CONTENTS:</p> <p>COLUMN SCHEDULE</p>	<p>SHEET NO:</p> <p>S 1319</p>
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SCHEDULE OF COLUMN

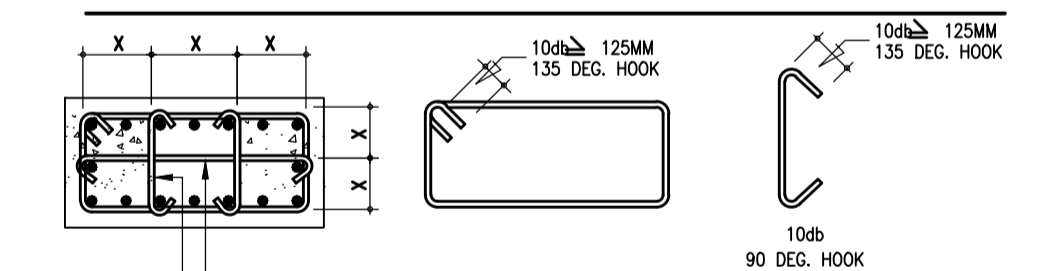
FOR REFERENCE ONLY, EXCLUDED IN PHASE 1

LEVEL	C14	C15	C16	C17	C18	C19	C20	C21	
ROOFDECK TO ROOFSLAB									
DIMENSIONS						300x600		300x600	
VERTICAL BARS						12-20mmØ		12-20mmØ	
TIES						F		F	
THIRD TO ROOFDECK									
DIMENSIONS	350x600	350x600	350x600	350x600	350x600	350x600	350x600	350x600	250X400
VERTICAL BARS	16-25Ø/8-20Ø	8-25mmØ/12-20Ø	8-25mmØ/12-20Ø	16-25Ø/8-20Ø	16-25Ø/8-20Ø	8-25mmØ/12-20Ø	8-25mmØ/12-20Ø	8-25mmØ/12-20Ø	4-20Ø / 8-16mmØ
TIES	B	B	B	B	B	B	B	B	D
SECOND TO THIRD FLOOR									
DIMENSIONS	450x650	350x600	350x600	400x650	400x650	350x600	350x600	350x600	250X400
VERTICAL BARS	16-25Ø/8-20Ø	8-25mmØ/12-20Ø	8-25mmØ/12-20Ø	16-25Ø/8-20Ø	16-25Ø/8-20Ø	8-25mmØ/12-20Ø	8-25mmØ/12-20Ø	8-25mmØ/12-20Ø	4-20Ø / 8-16mmØ
TIES	B	B	B	B	B	B	B	B	D
GROUND FLOOR TO SECOND FLOOR									
DIMENSIONS	500x700	450x650	450x650	500x700	500x700	450x650	450x650	450x650	250X400
VERTICAL BARS	20-25mmØ/4-20Ø	12-25mmØ/8-20Ø	12-25mmØ/8-20Ø	12-25mmØ/8-20Ø	16-25Ø/8-20Ø	12-25mmØ/8-20Ø	12-25mmØ/8-20Ø	12-25mmØ/8-20Ø	4-20Ø / 8-16mmØ
TIES	A	A	A	A	A	A	A	A	D
FOUNDATION TO GROUND FLOOR									
DIMENSIONS	450x650	500x700	500x700	500x700	450x650	500x700	500x700	500x700	250X400
VERTICAL BARS	20-25mmØ/4-20Ø	16-25Ø / 8-20Ø	16-25Ø / 8-20Ø	12-25mmØ/8-20Ø	16-25Ø/8-20Ø	16-25Ø / 8-20Ø	16-25Ø / 8-20Ø	16-25Ø / 8-20Ø	4-20Ø / 8-16mmØ
TIES	1	1	1	1	1	1	1	1	D

TYPICAL COLUMN REINFORCEMENT ELEVATION



TYPICAL TRANSVERSE REINF. IN COLUMN



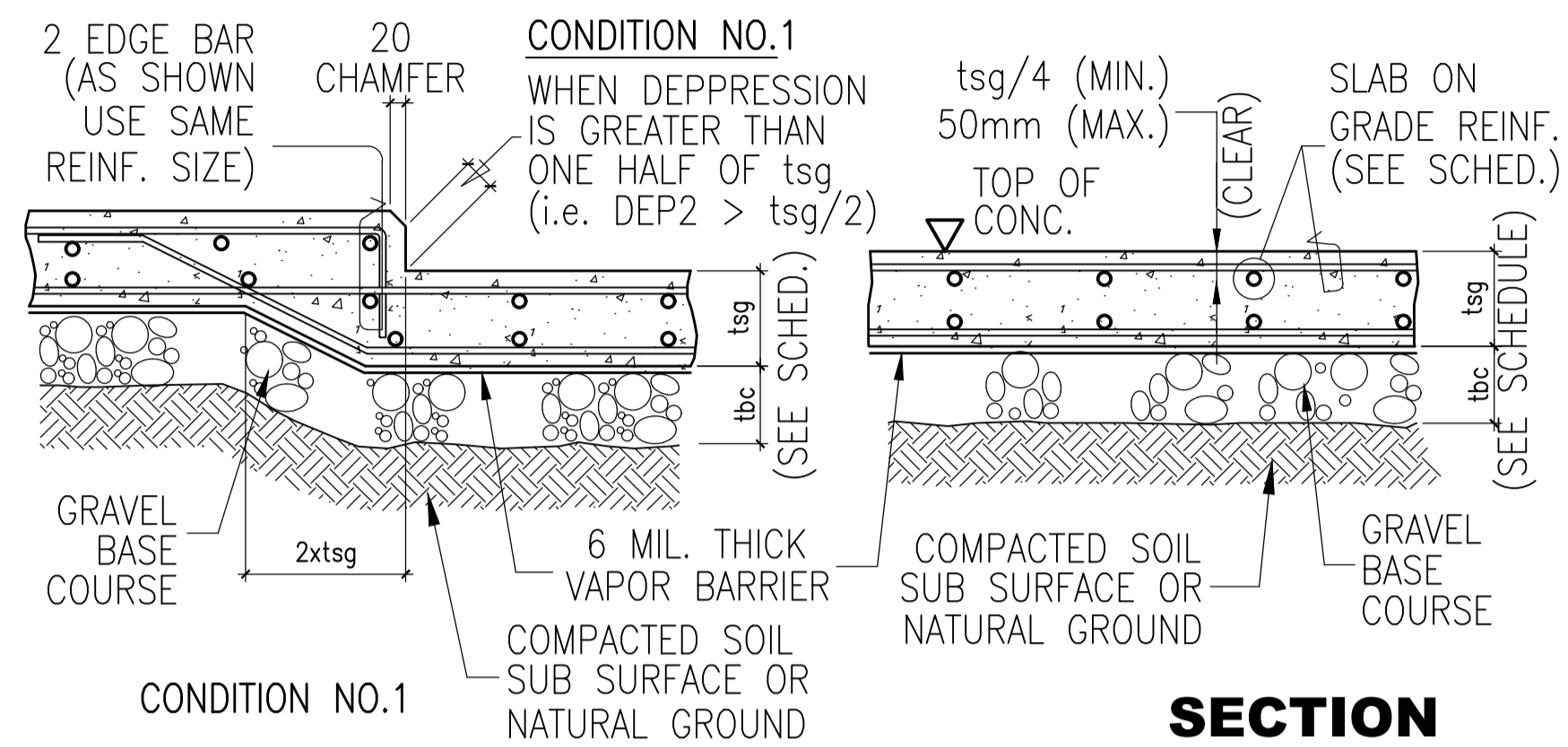
NOTES:
 PROVIDE 20mm Concrete Cover for A-ELC1

LINK TYPES :

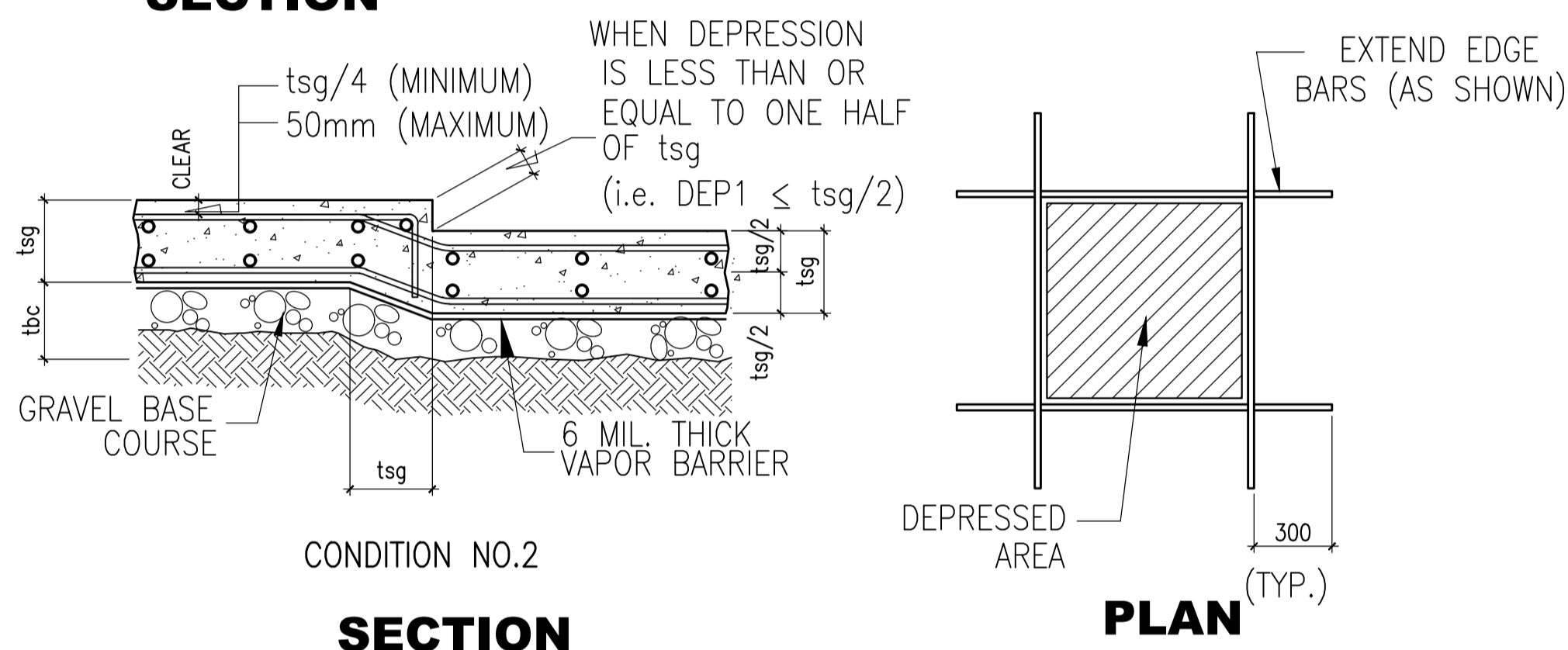
- 1 - 6 SETS 12mmØ, 1Ø50, rest @ 100mmoc
- A - 6 SETS 12mmØ, 1Ø50 12Ø100 rest @ 150mmoc
- B - 6 SETS Ties, 12mmØ, 1Ø50, 12Ø100 REST @ 200mm OC
- C - 4 SETS 12mmØ Ties, 1Ø50 12Ø100 rest @ 200mmoc
- D - 2 SETS 10mmØ Ties, 1Ø50 8Ø100 rest @ 200mmoc

1 COLUMN SCHEDULE
 SCALE: NTS

<p>ENRIQUE O. OLONAN & ASSOCIATES ARCHITECTS ENGINEERS CONSULTANTS IN JOINT VENTURE WITH</p> <p>ENRIQUE O. OLONAN & ASSOCIATES, CO. ARCHITECTS ENGINEERS CONSULTANTS</p>	<p>ENGINEER:</p> <p>ARNEL NIXON D. TAÑAZANA STRUCTURAL ENGINEER</p> <p>PRC No. 0078960 Validity: 04-14-2023 PTR No. 8676828 Date: 01-07-2021 Place: MARIKINA CITY TIN: 192-932-067</p>	<p>REPUBLIC ACT 9266</p> <p><small>DRAWINGS AND SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS DULY SIGNED, STAMPED OR SEALED, AS INSTRUMENTS OF SERVICE, ARE THE INTELLECTUAL PROPERTY AND DOCUMENT OF THE ARCHITECT. WHETHER THE OBJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT, IT SHALL BE UNLAWFUL FOR ANY PERSON TO DUPLICATE OR TO MAKE COPIES OF SAID DOCUMENTS FOR USE IN THE REPRODUCTION OF AND FOR OTHER PROJECTS OR BUILDINGS, WHETHER EXECUTED PARTY OR IN WHOLE, WITHOUT THE WRITTEN CONSENT OF ARCHITECT OR AUTHOR OF SAID DOCUMENT.</small></p>	<p>PROJECT:</p> <p>PROPOSED ACADEMIC BUILDING II</p> <p>LOCATION: Brgy. Rizal, Odiangan, Romblon</p>	<p>DESIGNED FOR:</p> <p>REPUBLIC OF THE PHILIPPINES PHILIPPINE SCIENCE HIGH SCHOOL - MIMAROPA REGIONAL CAMPUS</p>	<p>RECOMMENDING APPROVAL:</p> <p>MERIAM F. FALLAR FAD CHIEF</p>	<p>APPROVED BY:</p> <p>EDWARD C. ALBARACIN CAMPUS DIRECTOR</p>	<p>SHEET CONTENTS:</p> <p>COLUMN SCHEDULE</p>	<p>SHEET NO:</p> <p>S 14 19</p>
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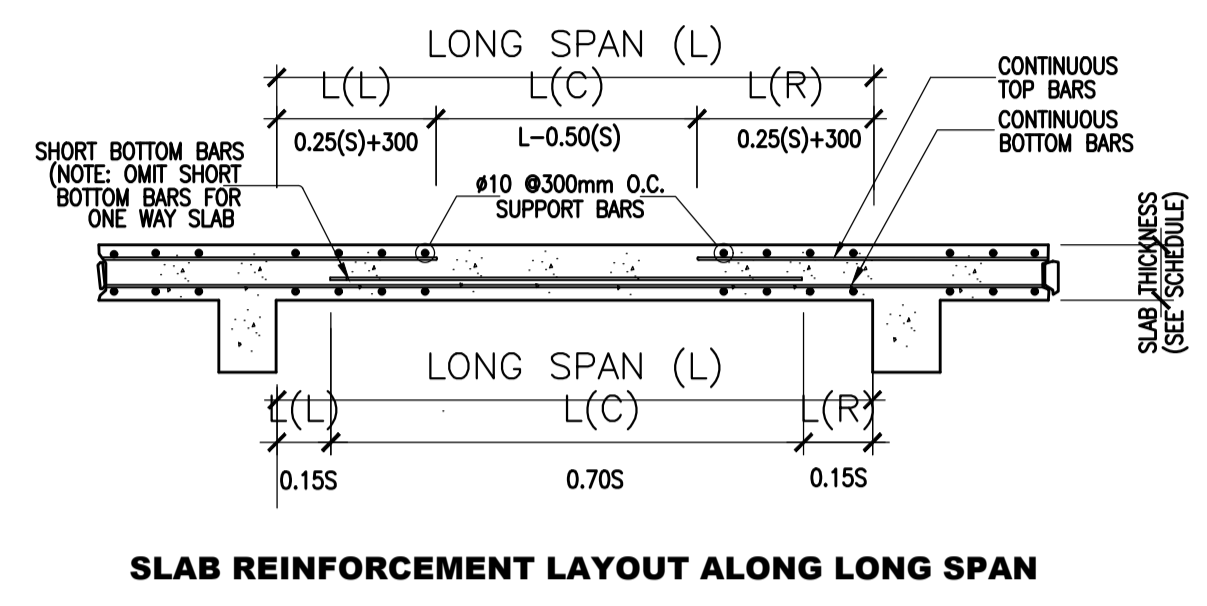
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SECTION



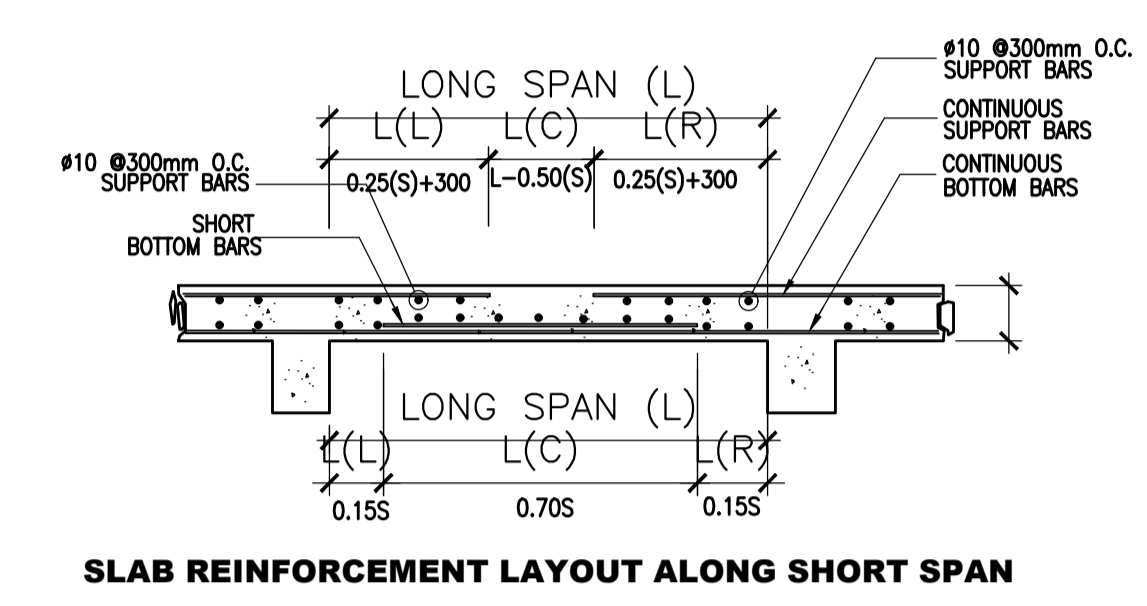
CONDITION NO.2
SECTION

SECTION

PLAN



SLAB REINFORCEMENT LAYOUT ALONG LONG SPAN



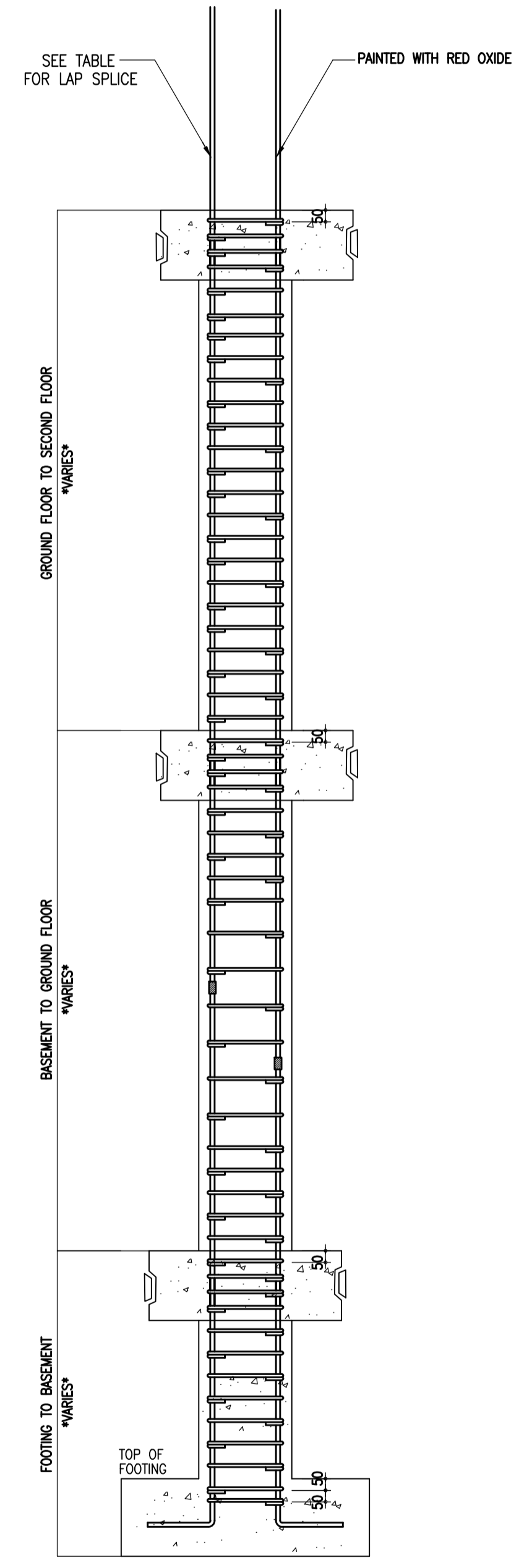
SLAB REINFORCEMENT LAYOUT ALONG SHORT SPAN

MARK	THICKNESS (mm)	DIAMETER (mm)	REINFORCEMENTS												REMARKS
			SHORT SPAN						LONG SPAN						
			CONTINUOUS		DISCONTINUOUS		MIDSPAN		CONTINUOUS		DISCONTINUOUS		MIDSPAN		
TOP	BOT	TOP	BOT	TOP	BOT	TOP	BOT	TOP	BOT	TOP	BOT	TOP	BOT		
BASEMENT FLOOR SLAB															
BSS1	200	12	200	200	200	200	200	200	200	200	200	200	200	200	SLAB ON GRADE
GROUND FLOOR SLAB															
GS1	100	12	150	600	150	600		200	200	10mmØ @ 300mm oc temp bars			200	ONE WAY	
GS2	100	12	150	600	150	600		200	200	600	200	600	200	TWO WAY	
GS3	100	12	150	600	150	600		200	200	10mmØ @ 300mm oc temp bars			200	ONE WAY	
GS4	100	12	150	600	150	600		200	200	10mmØ @ 300mm oc temp bars			200	ONE WAY	
GS5	100	12	150	600	150	600		200	200	600	200	600	200	TWO WAY	
GS6	200	12	200	200	200	200	200	200	200	200	200	200	200	SLAB ON GRADE	
GSC1	125	12	150	600	150	600	200	150	200	600	200	600	200	TWO WAY	
SECOND FLOOR SLAB															
2S1	100	12	150	600		600		200	200	10mmØ @ 300mm oc temp bars				ONE WAY	
2S2	100	12	150	600	150	600		200	200	600	200	600	200	TWO WAY	
2S3	100	12	150	600	150	600		200	200	600	200	600	200	TWO WAY	
2S4	100	12	150	600	150	600		200	200	600	200	600	200	TWO WAY	
2S5	100	12	150	600	150	600		200	200	600	200	600	200	TWO WAY	
2S6	100	12	150	600	150	600		200	200	600	200	600	200	TWO WAY	
2CS1	125	12	150	600		600	200	150	200	600	200	600	200	TWO WAY	
THIRD FLOOR SLAB															
3S1	100	12	150	600		600		200	200	10mmØ @ 300mm oc temp bars				ONE WAY	
3S2	100	12	150	600	150	600		200	200	600	200	600	200	TWO WAY	
3S3	100	12	150	600	150	600		200	200	600	200	600	200	TWO WAY	
3S4	100	12	150	600	150	600		200	200	600	200	600	200	TWO WAY	
3S5	100	12	150	600	150	600		200	200	600	200	600	200	TWO WAY	
3S6	100	12	150	600	150	600		200	200	600	200	600	200	TWO WAY	
3CS1	125	12	150	600		600	200	150	200	600	200	600	200	TWO WAY	
ROOFDECK FLOOR SLAB															
RDS1	115	12	150	450	150	450	600	150	150	450	150	450	600	150	TWO WAY
RDS2	115	12	150	600		600	200			10mmØ @ 300mm oc temp bars				ONE WAY	
ROOFSLAB FLOOR SLAB															
RSS1	100	12	150	600		600	200		200	600	200	600	200	TWO WAY	

FOR REFERENCE ONLY, EXCLUDED IN PHASE 1

NOTES:
1. SEE PLAN FOR LOCATION OF DEPRESSION.
2. FOR DEPRESSION LESS THAN 1/2 (tsg). OMIT ADDITIONAL EDGE BARS.

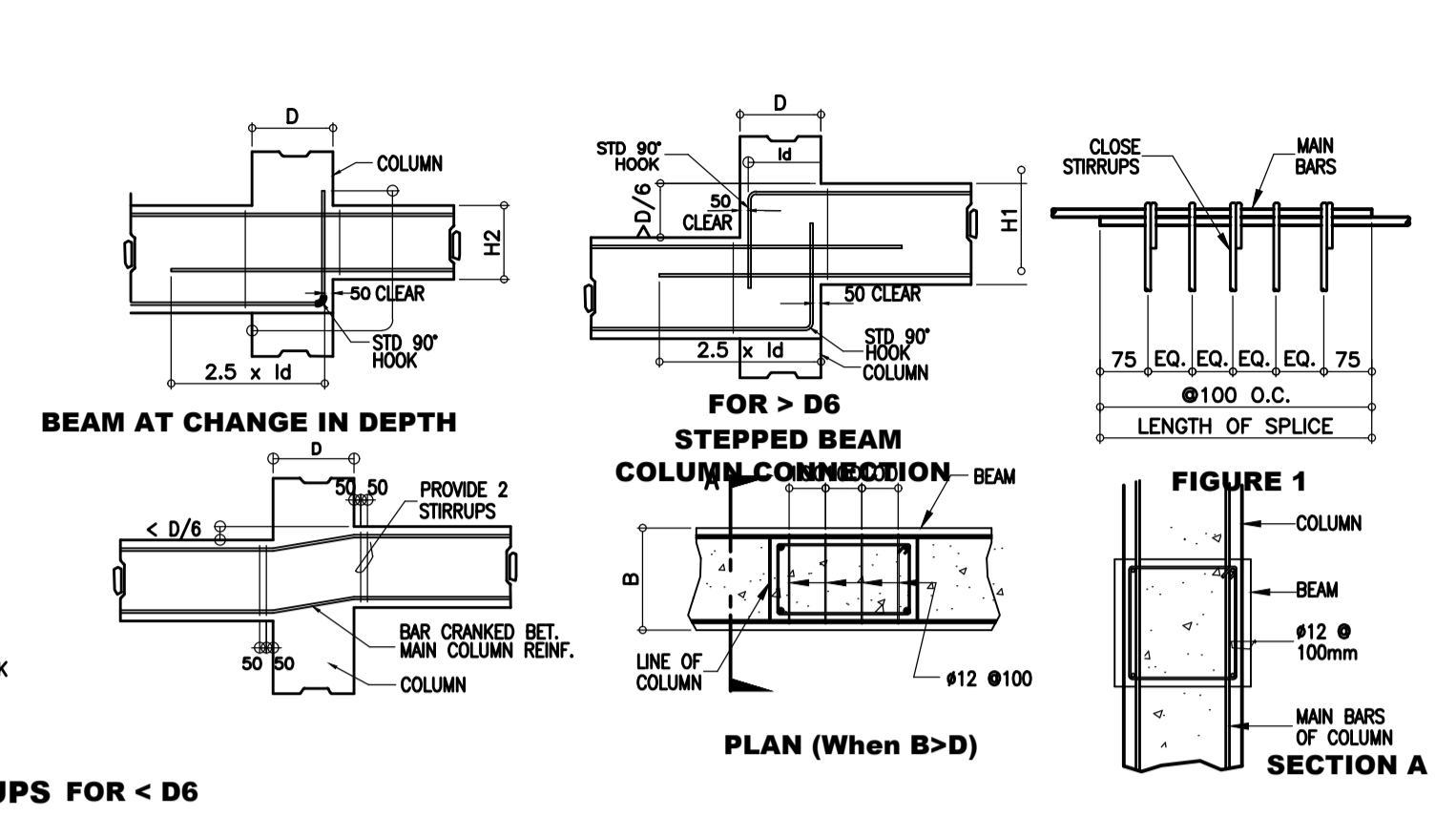
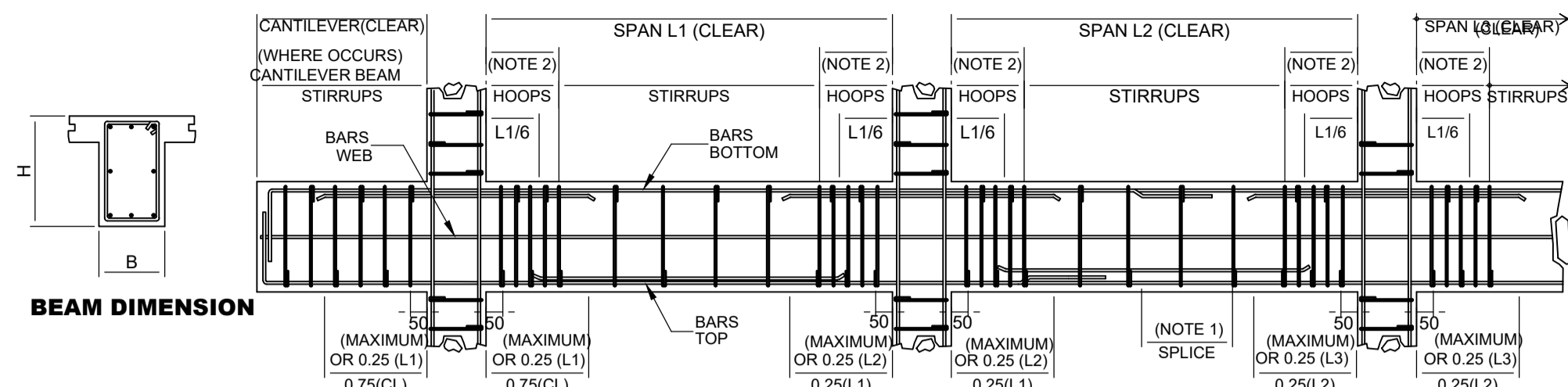
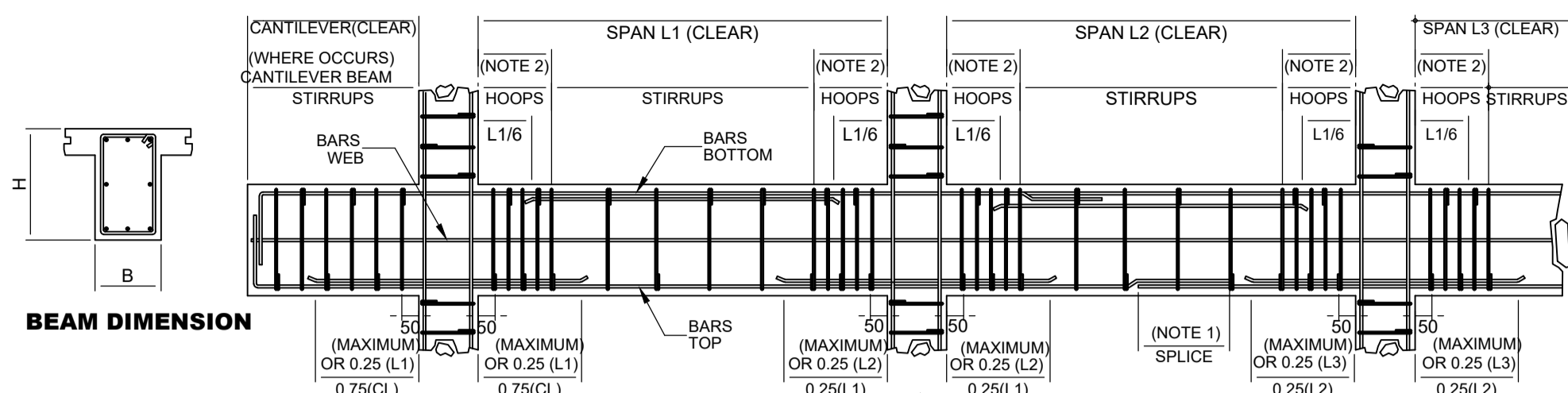
LOCATION	SLAB ON GRADE THK. (mm)	LOC. OF BAR	REINFORCEMENTS Asog	THICKNESS OF BASE COURSE tbc(mm)
BSS1	200	TOP	Ø12 @200mmOC	100
		BOT	Ø12 @200mmOC	



TYPICAL TERMINATION OF COLUMN REINFORCEMENT

LOWER GROUND FLOOR/BASEMENT SLAB
SCALE: _____ NTS

<p>ENRIQUE O. OLANON & ASSOCIATES ARCHITECTS ENGINEERS CONSULTANTS IN JOINT VENTURE WITH ENRIQUE O. OLANON & ASSOCIATES, CO. ARCHITECTS ENGINEERS CONSULTANTS</p>	<p>ENGINEER: ARNEL NIXON D. TAÑAZANA STRUCTURAL ENGINEER</p>	<p>REPUBLIC ACT 9266 DRAWINGS AND SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS DULY SIGNED, STAMPED OR SEALED, AS INSTRUMENTS OF SERVICE, ARE THE INTELLECTUAL PROPERTY AND DOCUMENT OF THE ARCHITECT. WHETHER THE OBJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT, IT SHALL BE UNLAWFUL FOR ANY PERSON TO DUPLICATE OR TO MAKE COPIES OF SAID DOCUMENTS FOR USE IN THE REPRODUCTION OF AND FOR OTHER PROJECTS OR BUILDINGS, WHETHER EXECUTED PARTY OR IN WHOLE, WITHOUT THE WRITTEN CONSENT OF ARCHITECT OR AUTHOR OF SAID DOCUMENT.</p>	<p>PROJECT: PROPOSED ACADEMIC BUILDING II</p>	<p>DESIGNED FOR: REPUBLIC OF THE PHILIPPINES PHILIPPINE SCIENCE HIGH SCHOOL - MIMAROPA REGIONAL CAMPUS</p>	<p>RECOMMENDING APPROVAL: MERIAM F. FALLAR FAD CHIEF</p>	<p>APPROVED BY: EDWARD C. ALBARACIN CAMPUS DIRECTOR</p>	<p>SHEET CONTENTS: SLAB SCHEDULE</p>	<p>SHEET NO: S 15 19</p>
	<p>SUITE 305 XAVIERVILLE SQUARE CONDOMINIUM NO. 38 XAVIERVILLE AVENUE, LORONA HEIGHTS, QUEZON CITY, 1108 TEL. NOS: 426 7009; 426 3900-04 FAX NOS: 927 0608; 426 7214</p>	<p>PRC No. 0078960 Validity: 04-14-2023 PTR No. 8676828 Date: 01-07-2021 Place: MARIKINA CITY TIN: 192-932-067</p>	<p>LOCATION: Brgy. Rizal, Odiangan, Romblon</p>					



NOTE :
 D_c = DEPTH OF COLUMN
 $H/1/2$ = DEPTH OF BEAM
 l_d = DEVELOPMENT LENGTH IN TENSION

LEGEND:
 D - DEPTH OF COLUMN
 $H/1/2$ - DEPTH OF BEAM
 l_d - DEVELOPMENT LENGTH IN TENSION

NOTES:
 1. LOCATE TOP BAR SPLICES AT MIDSPAN OF BEAM. LENGTH OF SPLICE = 40 DIA. OF BAR
 2. LOCATE BOTTOM BAR SPLICES AWAY FROM COLUMN FACE EQUAL TO 2 TIMES BEAM HEIGHT (H) (i.e. 4, no splice = 2 x H). LENGTH OF SPLICE = 40 DIA. OF BAR
 3. PROVIDE CLOSE STIRRUP ALONG LENGTH OF SPLICING EQUAL (SEE FIGURE 1) TO 100mm O.C.

BEAM SCHEDULE

MARK	DIMENSIONS		DIAMETER (mm)	FORCE (kips)	REINFORCEMENT					WEB REINF.	STIRRUPS	REMARKS
	WIDTH	DEPTH			CONTINUOUS TOP	CONTINUOUS BOT	MIDSPAN TOP	MIDSPAN BOT	DISCONTINUOUS TOP			
GROUND FLOOR BEAMS												
BSB1	300	600	25		7	5	3	3	5	5		A RC
BSB1A	300	600	25		5	5	3	3	5	5		A RC
BSB2	300	600	25		4	4	4	3	4	4		A RC
BSB2A	300	600	25		4	4	4	3	4	4		A RC
BSB2B	300	600	25		4	4	4	3	4	4		A RC
BSB3	300	600	25		6	6	4	3	6	6		A RC
BSB3A	300	600	25		6	6	4	3	6	6		A RC
BSB3B	300	600	25		6	6	4	3	6	6		A RC
BSB4	300	600	25		6	6	4	3	6	6		A RC
BSB4A	300	600	25		6	6	4	3	6	6		A RC
BSB4B	300	600	25		6	6	4	3	6	6		A RC
BSB5	300	600	25		6	6	4	3	4	4		A RC
BSB5A	300	600	25		4	4	4	3	4	4		A RC
BSB5B	300	600	25		4	4	4	3	4	4		A RC
BSB6	300	600	25		6	6	4	3	6	6		A RC
BSB6A	300	600	25		6	6	4	3	6	6		A RC
BSB7	300	600	25		6	6	4	3	6	6		A RC
BSB8	300	600	25		6	6	4	3	6	6		A RC
BSB8A	300	600	25		6	6	4	3	6	6		A RC
BSB8B	300	600	25		6	6	4	3	6	6		A RC
BSB9	300	600	25		6	6	4	3	6	6		A RC
BSB9A	300	600	25		6	6	4	3	6	6		A RC
BSB9B	300	600	25		6	6	4	3	6	6		A RC
BSB10	300	600	25		6	6	4	3	6	6		A RC
BSB10A	300	600	25		6	6	4	3	6	6		A RC
BSB10B	300	600	25		6	6	4	3	6	6		A RC
BSB11	300	600	25		6	6	4	3	6	6		A RC
BSB11A	300	600	25		6	6	4	3	6	6		A RC
BSB11B	300	600	25		6	6	4	3	6	6		A RC
BSBD1	300	600	25		4	3	4	3	4	3		A RC
BSBD1A	300	600	25		4	3	4	3	4	3		A RC
BSBD2	300	600	25		4	3	4	3	4	3		A RC
BSBD2A	300	600	25		4	3	4	3	4	3		A RC
BSEB1	300	600	25		4	3	4	3	4	3		A RC
BSRG1	200	450	25		2	2	2	2	2	2		A RC
GROUND FLOOR BEAMS												
GB1	450	550	25		11	8	3	6	11	8		D RC
GB2	450	550	25		10	8	3	6	10	8		D RC
GB2A	450	550	25		10	4	3	3	4	3		D RC
GB3	350	550	25		7	6	3	4	7	6		D RC
GB4	350	550	25		7	6	3	4	7	6		D RC
GB5	350	550	25		7	4	3	4	7	4		D RC
GB5A	350	550	25		7	4	3	4	7	4		D RC
GB5B	350	550	25		7	4	3	3	8	4		D RC
GB6	450	550	25		11	6	3	7	11	6		D RC
GB6A	450	550	25		11	6	3	7	11	6		D RC
GB6B	450	550	25		11	6	3	7	10	3		D RC
GB7	350	550	25		6	3	3	4	6	3		D RC
GB7A	350	550	25		6	3	3	4	6	3		D RC
GB7B	350	550	25		6	3	3	4	6	3		D RC
GB8	350	550	25		8	6	3	4	8	6		D RC
GB8A	350	550	25		8	6	3	5	8	6		D RC
GB8B	350	550	25		8	6	3	6	8	4		D RC
GBB1	300	550	25		5	3	3	4	5	3		D RC
GBB2	300	550	25		5	3	3	4	5	3		D RC
GBB1	300	550	25		5	3	3	4	5	3		D RC
GBD1	350	550	25		6	6	6	4	6	4		C RC
GBD1A	350	550	25		6	6	6	4	6	4		C RC

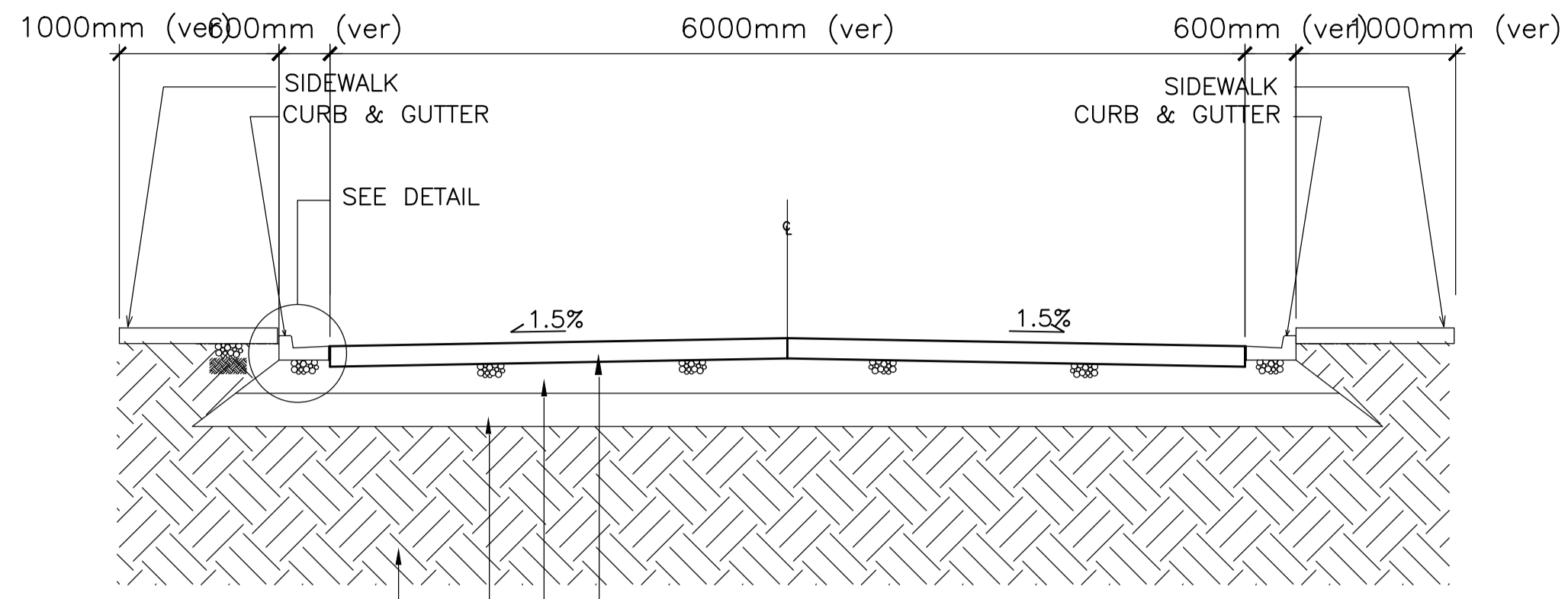
BEAM SCHEDULE

MARK	DIMENSIONS		DIAMETER (mm)	FORCE (kips)	REINFORCEMENT					WEB REINF.	STIRRUPS	REMARKS
	WIDTH	DEPTH			CONTINUOUS TOP	CONTINUOUS BOT	MIDSPAN TOP	MIDSPAN BOT	DISCONTINUOUS TOP			
SECOND FLOOR BEAMS												
GBD2A	350	550	25		7	6	4	4	6	4		D RC
GBD2A	300	550	25		7	6	4	4	6	4		D RC
GCB1	300	550	25		8	3	4	3	6	3		C RC
GCB2	300	550	25		2	2	2	2	2	2		C RC
GCR1	300	550	25		4	3	4	3	4	3		C RC
GEB1	150	550	16		3	3	3	3	3	3		F RC
GG1	350	550	25		7	6	4	4	7	4		C RC
GG2	450	550	25		11	6	3	8	11	6		B RC
GG3	450	550	25		7	4	4	8	10	8		B RC
GG3A	450	550	25		10	8	4	8	10	8		B RC
GG3B	450	550	25		10	8	4	8	10	8		B RC
GG4	450	550	25		10	6	4	8	8	4		B RC
GG4A	450	550	25		10	6	4	8	10	6		B RC
GG4B	450	550	25		10	6	4	8	10	6		B RC
GG5	450	550	25		10	6	4	8	10	6		B RC
GG5A	450	550	25		10	6	4	8	10	6		B RC
GG5B	450	550	25		10	6	4	8	10	6		B RC
GG6	350	550	25		7	4	4	6	7	4		C RC
GG6A	350	550	25		8	8	6	6	8	8		C RC
GG6B	350	550	25		8	8	4	4	7	8		C RC
GG7	450	550	25		11	6	4	8	10	4		C RC
GG8	450	550	25		8	6	6	6	8	6		C RC
GLB1	200	450	25		2	2	2	2	2	2		E RC
GR1	300	550	25		4	3	4	3	4	3		E RC
GR1A	300	550	25		4	3	4	3	4	3		E RC
GR1B	300	550	25		4	3	4	3	4	3		E RC
GR2	300	550	25		4	3	4	3	4	3		E RC
GR2A	300	550	25		4	3	4	3	4	3		E RC
GR3	300	550	25		3	4	3	4	3	4		E RC
GR4	300	550	25		6	4	4	4	4	4		E RC
GR5	200	450	16		2	2	2	5	2	2		E RC
GR6	200	450	25		2	2	2	2	2	2		E RC
GRG2	250	550	20		4	3	4	3	4	3		H RC
GRG3	250	550	20		4	4	4	6	6	4		H RC
GRG4	250	550	20		3	3	3	3	3	3		H RC
GRG5	250	550	20		2	2	2	3	2	2		H RC
GRG6	200	550	20		2	2	2	3	2	2		H RC
THIRD FLOOR BEAMS												
2B1	450	550	25		8	4	3	5	8	4		D RC
2B2	450	550	25		8	4	3	5	8	4		D RC
2B2A	450	550	25		8	4	3	5	8	4		D RC
2B3	350	550	25		6	4	3	4	7	4		D RC
2B4	350	550	25		7	4	3	4	7	4		D RC
2B5	350	550	25		7	4	3	4	7	4		D RC
2B5A	350	550	25		7	4	3	4	7	4		D RC
2B5B	350	550	25		7	4	3	3	8	4		D RC
2B6	450	550	25		7	4	3	6	7	4		D RC
2B6A	450	550	25		7	4	3	6	7	4		D RC
2B6B	450	550	25		7	4	3	6	7	4		D RC
2B7	350	550	25		6	3	3	4	6	3		D RC
2B7A	350	550	25		6	3	3	4	6	3		D RC
2B7B	350	550	25		6	3	3	4	6	3		D RC
2B8	350	550	25		7	4	3	4	7	4		D RC
2B8A	350	550	25		7	4	3	5	7	4		D RC
2B8B	350	550	25		7	4	3	5	7	4		D RC
2BB1	300	550	25		5	3	3	4	5	3		D RC
2BB2	300	550	25		5	3	3	4	5	3		D RC
2BB1	300	550	25		5	3	3	4	5	3		D RC
2BD1	350	550	25		6	6	6	4	6	4		C RC

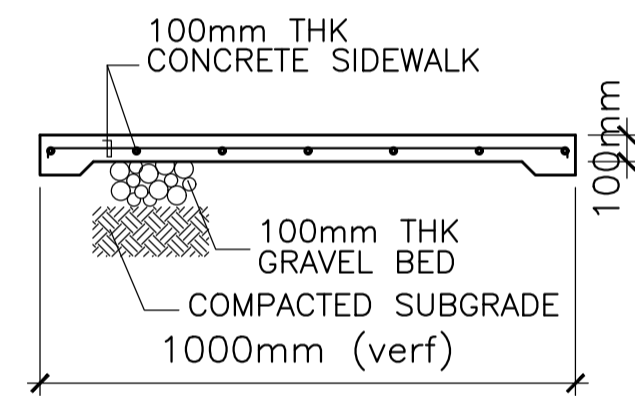
BEAM SCHEDULE

MARK	DIMENSIONS		DIAMETER (mm)	FORCE (kips)	REINFORCEMENT					WEB REINF.	STIRRUPS	REMARKS
	WIDTH	DEPTH			CONTINUOUS TOP	CONTINUOUS BOT	MIDSPAN TOP	MIDSPAN BOT	DISCONTINUOUS TOP			
THIRD FLOOR BEAMS												
2BD1A	350	550	25		6	6	6	4	6	4		C RC
2BD2	350	550	25		7	6	4	4	6	4		D RC
2BD2A	300	550	25		7	6	4	4	6	4		D RC
2CB1	300	550	25		5	3	5	3	3	2		C RC
2CB2	300	550	25		5	3	5	2	3	2		C RC
2CR1	300	550	25		4	3	4	3	4	3		C RC
2EB1	150	550	16		3	3	3	3	3	3		F RC
2G1	350	550	25		7	6	4	4	7	4		C RC
2G2	450	550	25		8	4	3	6	8	4		B RC
2G3	450	550	25		7	4	4	6	7	4		B RC
2G3A	450	550	25		7	4	4	6	7	4		

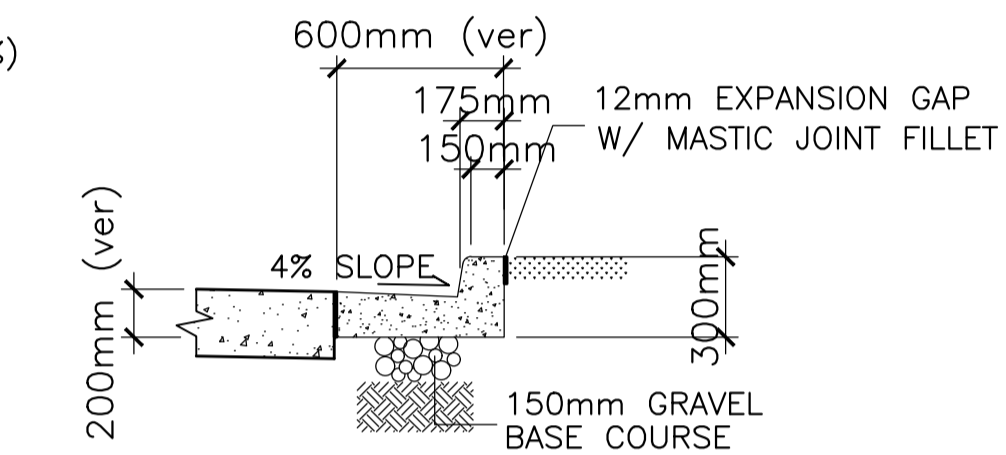
GENERAL NOTE: FOR REFERENCE ONLY, EXCLUDED IN PHASE 1



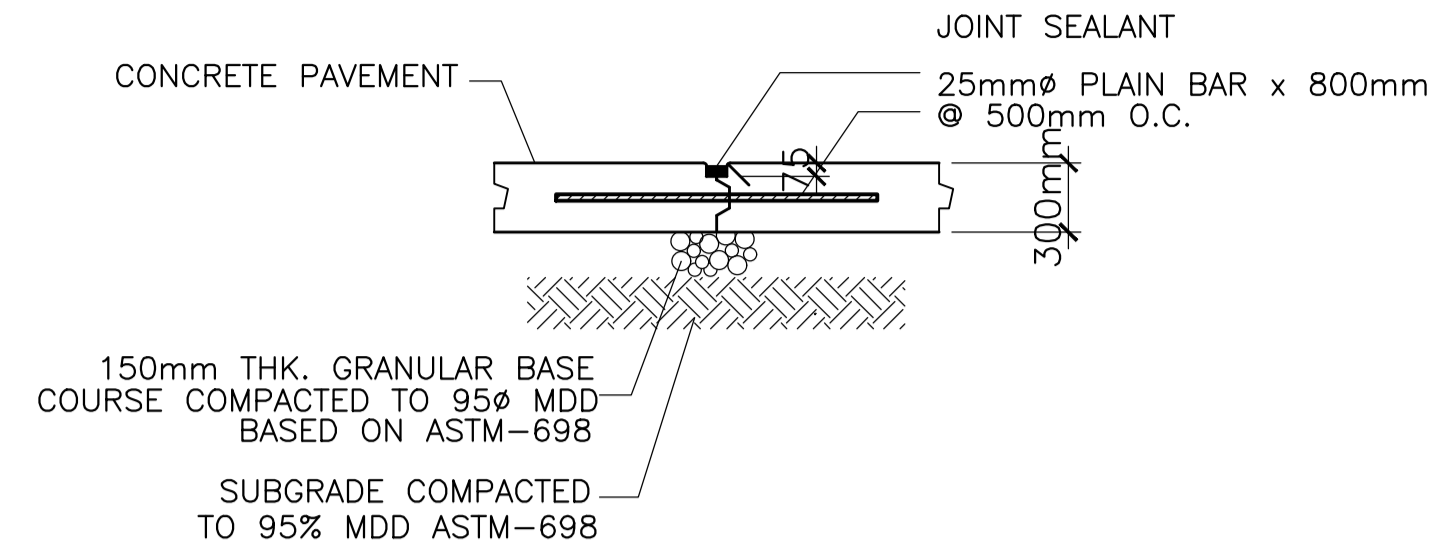
ROADWAY DETAIL
SCALE: NTS



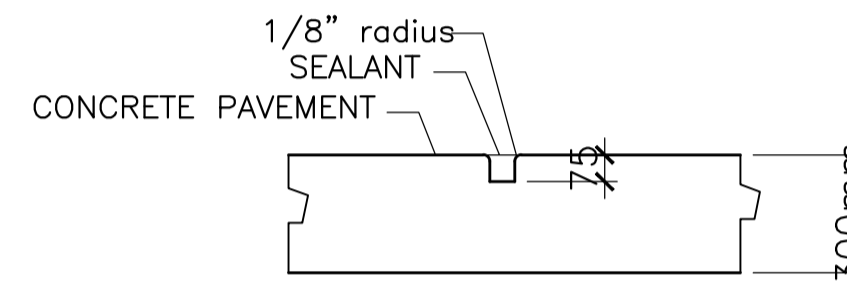
SIDEWALK DETAIL
SCALE: NTS



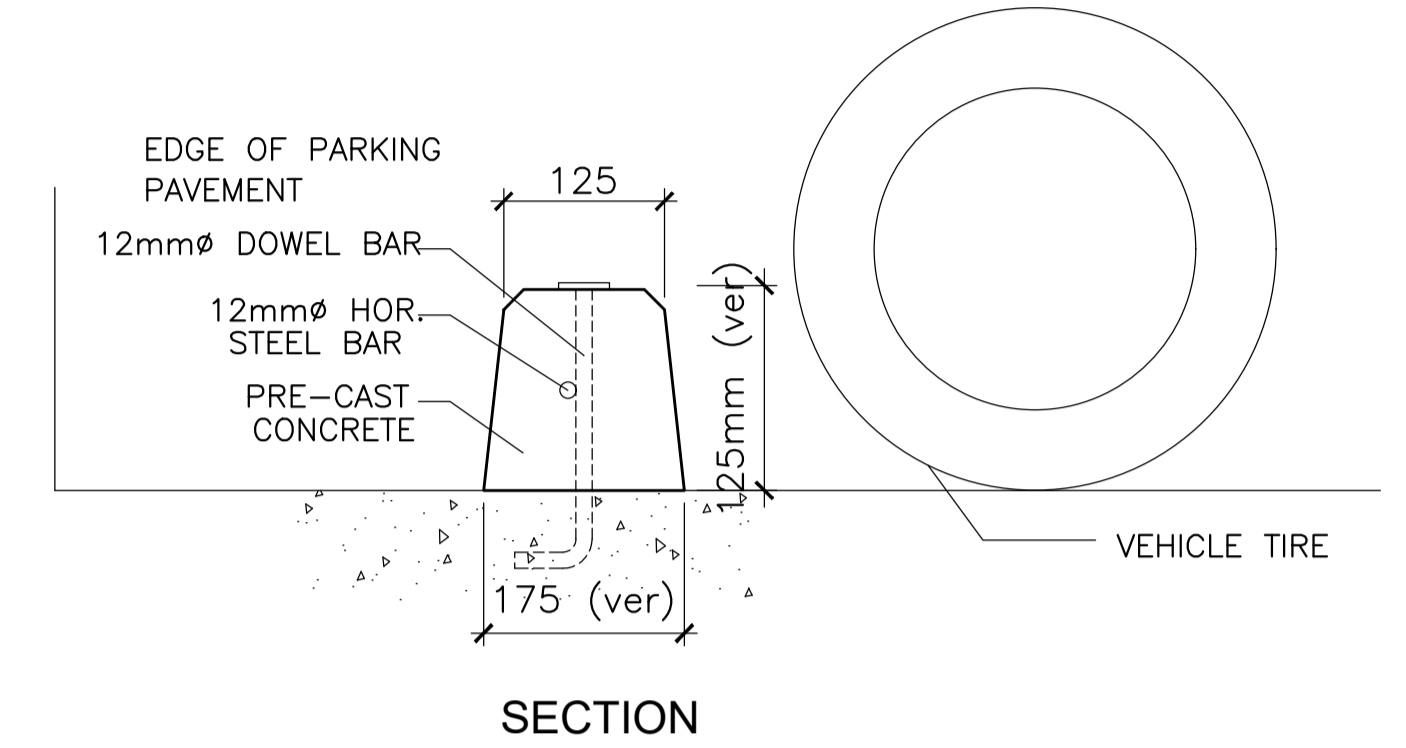
CURB & GUTTER DETAIL
SCALE: NTS



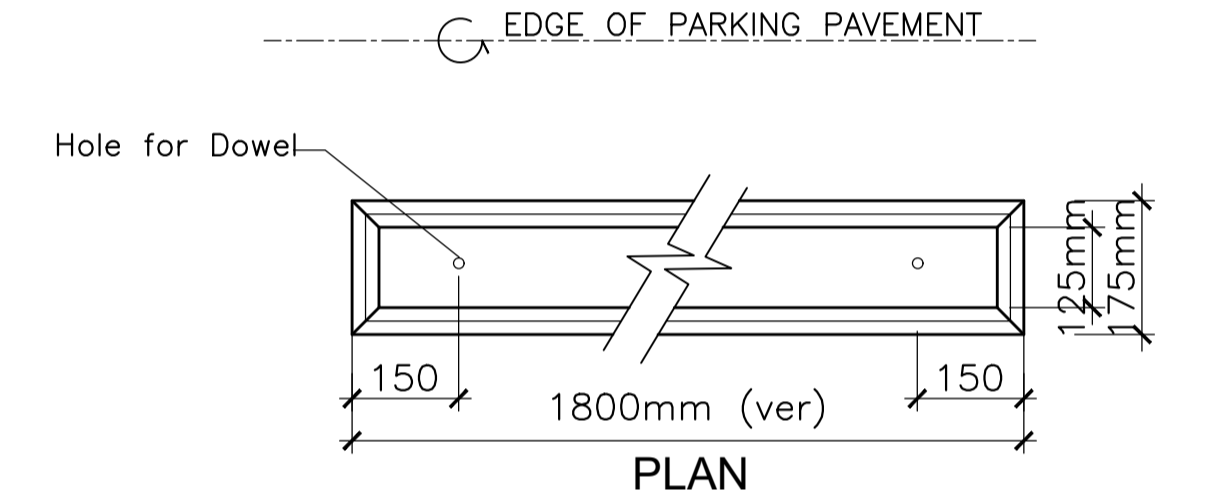
CONSTRUCTION JOINT
SCALE: NTS



TRANSVERSE CONTRACTION JOINT
SCALE: NTS



SECTION



PLAN

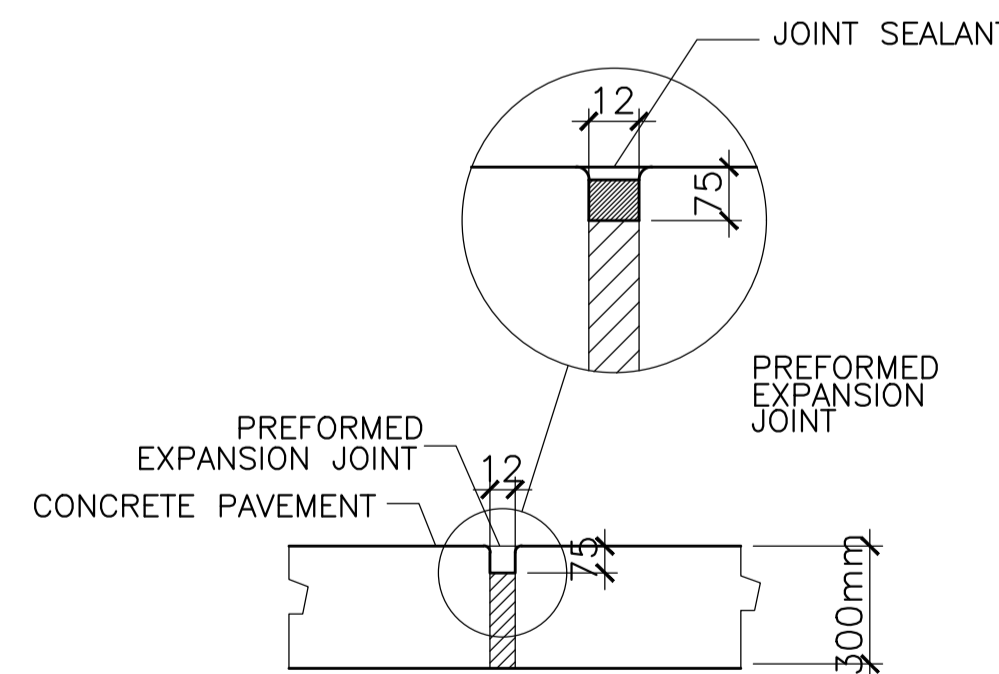
PRECAST WHEEL STOP
SCALE: NTS

NOTES:

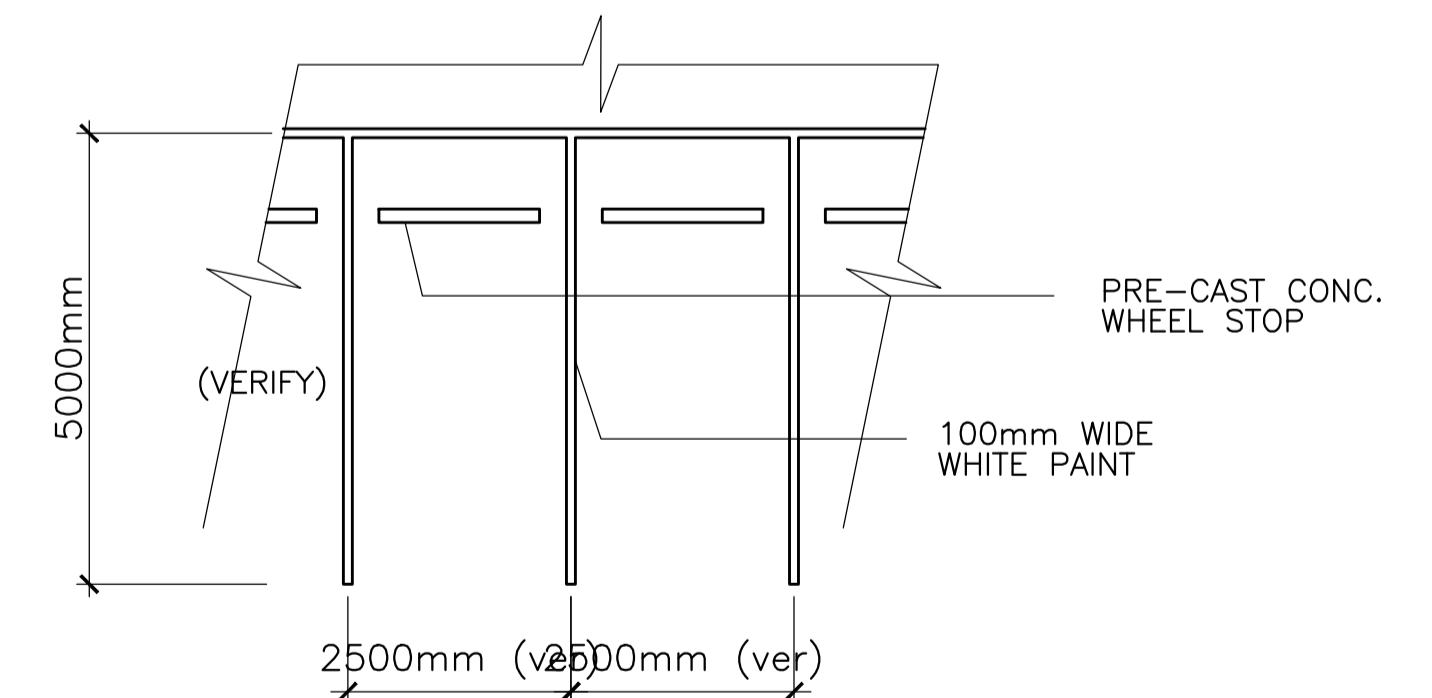
- PROVIDES CONSTRUCTION JOINT @ 3000mm MAXIMUM INTERVAL EXCEPT WHERE EXPANSION JOINT OCCUR, BUT NO SECTION SHALL BE LESS THAN 1200mm LONG.
- PROVIDES EXPANSION JOINTS AT ALL CURB RETURNS AND @ 1500mm MAXIMUM INTERVAL BETWEEN RETURNS.

LOCATION	SLAB THICKNESS (T)
ROADWAY	300mm
PARKING FOR LIGHT VEHICLES	175mm
PARKING FOR DELIVERY TRUCKS	250mm
SIDEWALK	100mm

MATERIALS	SPECIFICATIONS	TESTING
PLAIN CONCRETE PAVEMENT	fc' = 4000 psi (27.60 Mpa) MAXIMUM WATER CEMENT RATIO = 0.42 SLUMP RANGE = 50 TO 100mm	Q.C.: 1 SET OF 5 CYLINDER EACH, MINIMUM, FOR EACH DAY OF POUR OR 12 CU. M.
SUBBASE	GRANULAR SUBBASE CONFORMING TO ASTM D1241 TYPE 1 COMPACT TO 95% MDD BASED ON ASTM D1557	FDT TEST FOR EVERY 400 SQ. M.
IMPROVED SUBGRADE	COMPACT MINIMUM OF 300mm OF EXISTING SUBGRADE TO 95% MDD BASED ON ASTM D1557 AFTER REMOVAL OF TOP SOIL AND ORGANIC MATERIALS	FDT TEST FOR EVERY 400 SQ. M.
PLAIN DOWEL 25mmØ	fy = 60,000 psi (275.8 Mpa)	TENSION AND BEND TEST ON SAMPLE ASTM A370



EXPANSION JOINT
SCALE: NTS



PARKING LAYOUT
SCALE: NTS

ENRIQUE O. OLONAN & ASSOCIATES
ARCHITECTS ENGINEERS CONSULTANTS
IN JOINT VENTURE WITH
ENRIQUE O. OLONAN & ASSOCIATES, CO.
ARCHITECTS ENGINEERS CONSULTANTS

SUITE 305
XAVIERVILLE SQUARE
CONDOMINIUM
NO. 38 XAVIERVILLE
AVENUE, LOYOLA HEIGHTS,
QUEZON CITY, 1108
TEL NOS: 426 7009;
426 3900-04
FAX NOS: 927 0608;
426 7214

ENGINEER:
ARNEL NIXON D. TAÑAZANA
STRUCTURAL ENGINEER
PRC No. 0076960 Validity: 04-14-2023
PTR No. 8676828 Date: 01-07-2021
Place: MARIKINA CITY TIN: 192-932-067

REPUBLIC ACT 9266
DRAWINGS AND SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS DULY SIGNED, STAMPED OR SEALED, AS INSTRUMENTS OF SERVICE, ARE THE INTELLECTUAL PROPERTY AND DOCUMENT OF THE ARCHITECT. WHETHER THE OBJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT, IT SHALL BE UNLAWFUL FOR ANY PERSON TO DUPLICATE OR TO MAKE COPIES OF SAID DOCUMENTS FOR USE IN THE REPEITION OF AND FOR OTHER PROJECTS OR BUILDINGS, WHETHER EXECUTED PARTY OR IN WHOLE, WITHOUT THE WRITTEN CONSENT OF ARCHITECT OR AUTHOR OF SAID DOCUMENT.

PROJECT:
PROPOSED ACADEMIC BUILDING II
LOCATION: Brgy. Rizal, Odiangan, Romblon

DESIGNED FOR:

REPUBLIC OF THE PHILIPPINES
PHILIPPINE SCIENCE HIGH SCHOOL -
MIMAROPA REGIONAL CAMPUS

RECOMMENDING APPROVAL:
MERIAM F. FALLAR
FAD CHIEF

APPROVED BY:
EDWARD C. ALBARACIN
CAMPUS DIRECTOR

SHEET CONTENTS:
ROADWAY
SIDEWALK
CURB & GUTTER
CONSTRUCTION JOINT
EXPANSION JOINT

SHEET NO:
S
19 19

STRUCTURAL NOTES

- ALL STRUCTURAL MILL SECTIONS, BUILT UP PLATE SECTIONS SHALL BE DESIGNED IN ACCORDANCE WITH AISC'S LATEST "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
- DESIGN LOADS FOR BUILDINGS SHALL MEET THE REQUIRED STRUCTURAL DESIGN CRITERIA.
- STEEL PLATES, SHAPES, BARS AND METAL FABRICATIONS: ASTM A-36.
- STRUCTURAL BOLTS AND NUTS:
ASTM A-325, GALVANIZED. 7/8 ϕ AND BELOW.
A-490 1" ϕ AND ABOVE.
- ELECTRODES FOR WELDING: ASTM A233 E_{70XX} SERIES; COMPLY WITH AWS D1.1 CODE REQUIREMENTS.
- FLAME CUTTING AND WELDING SHALL BE DONE IN ACCORDANCE WITH LATEST "STANDARD CODE FOR WELDING IN BUILDING CONSTRUCTION" OF THE AMERICAN WELDING SOCIETY.
- ALL BUTT WELDS SHALL BE FULL PENETRATION WELDS AND SHALL BE PROPERLY BACK-CHIPPED OR GOUGED. BACK-UP PLATES SHALL BE PROVIDED AS REQUIRED.
- APPLY TT-P-645 SHOP PAINT FOR ALL FABRICATIONS.
- SHOP PAINTING FOR STRUCTURAL STEEL SHALL BE RUST INHIBITIVE PRIMER WITH MINIMUM D.F.T. OF 2.0 MILS.
- TOUCH-UP PAINTING: APPLY PAINT TO EXPOSED AREAS IN MANNER SATISFACTORY TO THE ENGINEER WITH SAME MATERIAL AS SHOP PAINT.
- COMPLY WITH AISC CODE AND SPECIFICATIONS FOR BEARING, ADEQUACY OF TEMPORARY CONNECTIONS AND ALIGNMENT.
- CONTRACTOR SHALL FURNISH COMPLETE ERECTION DRAWINGS FOR THE PROPER IDENTIFICATION AND ASSEMBLY OF ALL BUILDING COMPONENTS. THESE DRAWINGS WILL SHOW ANCHOR BOLT SETTING, PRIMARY SECONDARY, AND ROOF FRAMING, AND NECESSARY INSTALLATION DETAILS. SUBMIT SHOP DRAWINGS FOR APPROVAL BEFORE FABRICATION.
- APPLICATION OF FIRE PROOFING SYSTEM IS REQUIRED FOR ALL STRUCTURAL STEEL MEMBERS. PROVIDE 2 HOUR MINIMUM FIRE RATING. REFER TO ARCHITECTURAL AND MECHANICAL PLANS FOR ADDITIONAL FIRE PROOFING REQUIREMENTS.

STRUCTURAL STEEL NOTES 1

SCHEDULE OF REINFORCING BARS

DIAMETER OF BARS	GRADE (fy)	ASTM
#10 AND SMALLER	GRADE 40 (40,000psi)	A615/A615M (DEFORMED)
#12 AND LARGER	GRADE 60 (60,000psi)	A615/A615M (DEFORMED)

- BARS SHALL BE CLEAN OF RUST, GREASE OR OTHER MATERIALS LIKELY TO IMPAIR BOND. ALL REINFORCING BAR BENDS SHALL BE MADE COLD.
- ALL GRADE 60 REINFORCING STEEL SHALL BE CLEARLY MARKED TO DIFFERENTIATE THEM FROM GRADE 40 REINF. STEEL IF CONCURRENTLY ON SITE.
- IN GENERAL, BAR SPLICES SHALL BE MADE AT POINTS OF MINIMUM STRESS. SPLICES SHALL BE SECURELY WIRED TOGETHER. STAGGER SPLICES AT MIDSPAN AND BOTTOM BAR NEAR SUPPORT. SPLICE OF REINFORCEMENT SHALL BE MADE ONLY AS REQUIRED OR PERMITTED ON DESIGN DRAWINGS OR AS ALLOWED BY THE ACI CODE OR AS AUTHORIZED BY THE ENGINEER.
- BARS NOTED AS "CONT." SHALL HAVE A MINIMUM SPLICE LENGTH OF 42 BAR DIA. BUT BAR DIAMETERS BUT NOT LESS THAN 600 mm", UNLESS OTHERWISE NOTED.
- REINFORCING SHALL BE SPLICED ONLY AS INDICATED ON THE DRAWINGS.
- MINIMUM CONCRETE COVER FOR REINFORCING BARS SHALL BE :

ITEM	COVER
CONCRETE CAST AGAINST EARTH EXPOSED TO EXTERIOR OF WEATHER FORMED SURFACE BELOW GRADE	75 mm 38 mm 50 mm
SLAB ON GRADE	50 mm
COLUMNS & BEAMS	38 mm
STRUCTURAL SLABS TOP & BOT.(INTERIOR)	25 mm

- ANY WELDING TO BE PERFORMED MUST HAVE PRIOR WRITTEN APPROVAL OF THE ENGR.
- WELDING OF REINFORCING STEEL IS NOT PERMITTED UNLESS OTHERWISE SHOWN ON THE DRAWINGS. WELDING OF REINFORCING STEEL SHALL CONFORM TO AWS D1.4-79 "AWS STRUCTURAL WELDING CODE - REINFORCING STEEL" OF THE AMERICAN WELDING SOCIETY REINFORCING STEEL WHICH IS WELDED SHALL CONFORM TO ASTM A 706. REINFORCING STEEL NOT CONFORMING TO ASTM A 706 MAY BE USED IF MATERIAL PROPERTIES OF THE REINFORCING STEEL CONFORM TO AWS D1.4-79.
- WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A-185. WELDE WIRE FABRIC IN SUSPENDED SLABS SHALL HAVE FY = 60 KSI. LAP 152 MM. MINIMUM OR ONE FULL MESS, WHICHEVER IS GREATER FOR SLABS ON GRADE.
- SHOP DRAWINGS : THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REINFORCING STEEL PREPARED IN ACCORDANCE WITH ACI 315. INDICATE BENDING DIAGRAM, ASSEMBLY DIAGRAM, SPLICING AND LAPS OF RODS AND SHAPES DIMENSIONS AND DETAILS FOR REINFORCING BARS.
- ANCHOR BOLTS, DOWELS AND OTHER EMBEDDED ITEMS ARE TO BE SECURELY TIED IN PLACE BEFORE CONCRETE IS POURED.

REINFORCING STEEL

- FORMS SHALL BE PROVIDED FOR ALL CONCRETE INDICATED UNLESS SPECIFIED OTHERWISE. FORMS SHALL BE SET TRUE TO LINE AND GRADE AND MAINTAINED SO AS TO INSURE COMPLETED WORK WITHIN THE ALLOWABLE TOLERANCES SPECIFIED AND SHALL BE MORTAR TIGHT.
- FORMS AND THEIR SUPPORTS SHALL BE DESIGNED SO AS NOT TO DAMAGE PREVIOUSLY PLACED STRUCTURE.
- NO CONSTRUCTION LOAD SHALL BE SUPPORTED ON, NOR ANY SHORING REMOVED FROM ANY PART OF STRUCTURE UNDER CONSTRUCTION EXCEPT WHEN THAT PORTION OF THE STRUCTURE IN COMBINATION WITH THE REMAINING FORMING AND SHORING SYSTEM HAS STRENGTH TO SUPPORT SAFELY ITS WEIGHT AND THE ADDITIONAL IMPOSED LOADS.
- FORMS SHALL BE REMOVED IN SUCH MANNER AS NOT TO IMPAIR SAFETY AND SERVICE ABILITY OF THE STRUCTURE.

SCHEDULE OF STRIPPING OF FORMS AND SHORES

ITEMS	TIME
FOUNDATION	24 HRS
SUSPENDED SLAB EXCEPT WHEN ADDITIONAL LOADS ARE IMPOSED	14 DAYS
COLUMN / WALLS	12 DAYS
BEAMS	14 DAYS

FORMWORKS

SCHEDULE OF STRUCTURAL CONCRETE 28-DAY COMPRESSIVE STRENGTH AND TYPES

LOCATION	STRUCTURAL ELEMENTS	28-DAY COMPRESSIVE STRENGTH	DENSITY	MAX SLUMP
ALL FLOORS	COLUMNS BEAMS SLABS SHEAR WALL	4000 psi (UNLESS NOTED OTHERWISE)	150 PCF	4"(100mm)
FOUNDATION	FOOTING	4000	150 PCF	4"(100mm)
GROUND	SLAB ON GRADE	3000 psi	150 PCF	4"(100mm)

- INFORM ARCHITECT/ENGINEERS OF OTHER MISCELLANEOUS CONCRETE STRUCTURAL ELEMENTS NOT SHOWN ABOVE TO DETERMINE THEIR RESPECTIVE COMPRESSIVE STRENGTHS.

SCHEDULE OF CONCRETE AGGREGATES

ITEMS	AGGREGATE SIZE
SLABS, BEAMS, COLUMNS	3/4" (19 mm)
CURBS & MASS CONCRETE	1" (25 mm)

- ALL CONCRETE WORK SHALL CONFORM TO THE LATEST EDITION CODE OF THE AMERICAN CONCRETE INSTITUTE (ACI 318 -91).

LOCATION OF ALL CONSTRUCTION OR COLD JOINTS MUST BE APPROVED BY THE ENGINEER / ARCHITECT.

PIPE OR DUCTS EXCEEDING ONE THIRD THE SLAB OR WALL THICKNESS SHALL NOT BE PLACED IN STRUCTURAL CONCRETE UNLESS SPECIFICALLY DETAILED. PIPES MAY PASS THROUGH STRUCTURAL CONCRETE IN SLEEVES BUT SHALL NOT BE EMBEDDED THEREIN.

REINFORCING BARS, ANCHOR BOLTS, AND OTHER INSERTS SHALL BE SECURED IN PLACED BEFORE POURING CONCRETE. BAR PLACEMENT AND SUPPORTS SHALL BE IN ACCORDANCE WITH THE RECOMMENDED ACI PRACTICE.

- ALL INSERTS. ANCHOR BOLTS, PLATES, ETC. TO BE EMBEDDED IN CONCRETE SHALL BE HOT DIP GALVANIZED UNLESS NOTED OTHERWISE.

- IN GENERAL, THE LATEST EDITION OF (MANUAL OF STANDARD PRACTICE FOR DETAILING CONCRETE STRUCTURES) ACI 315, SHALL BE ADHERED TO, UNLESS SHOWN OTHERWISE.

- USE OF ADMIXTURES IS PERMITTED TO PRODUCE PROPER SLUMP AND WORKABILITY BUT SUBJECT TO THE ENGINEER'S APPROVAL ADDITION OF WATER TO CONCRETE AT JOBSITE IS NOT ALLOWED.

REINFORCED CONC. NOTES

- GENERAL NOTES AND TYPICAL STRUCTURAL DETAILS SHALL APPLY TO ALL DRAWINGS UNLESS OTHERWISE SHOWN OR NOTED.

- FEATURES OF CONSTRUCTION SHOWN ARE TYPICAL AND SHALL APPLY GENERALLY THROUGHOUT FOR SIMILAR CONDITIONS. MODIFY TYPICAL DETAILS AS REQUIRED TO MEET SPECIAL CONDITIONS.

- THE CONTRACTOR SHALL EXAMINE THE DRAWINGS AND SHALL NOTIFY THE ENGINEER/ARCHITECT OF ANY DISCREPANCIES HE MAY FIND BEFORE PROCEEDING WITH THE WORK OR DURING CONSTRUCTION.

- IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PROVIDE ADEQUATE SHORING AND BRACING OF THE STRUCTURE FOR ALL LOADS THAT MAY BE IMPOSED DURING CONSTRUCTIONS.

- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE LATEST APPLICABLE STANDARDS OR SPECIFICATIONS. ALL WORKS SHALL CONFORM WITH THE BEST PRACTICE PREVAILING IN THE VARIOUS TRADES.

- INSPECTION-ALL CONSTRUCTION AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION, EXAMINATION AND TESTING BY THE ENGINEER/ARCHITECT. THE ENGINEER/ARCHITECT SHALL HAVE THE RIGHT TO REJECT DEFECTIVE MATERIALS AND WORKMANSHIP OR REQUIRE ITS CORRECTION.

- UNLESS SPECIFICALLY DETAILED ELSEWHERE CONTRACTOR SHALL FOLLOW TYPICAL DETAILS AS SHOWN IN THESE DRAWINGS.

- THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COORDINATION OF WORK AMONG THE VARIOUS TRADES AS NECESSARY TO AVOID CONFLICTS AND TO INSURE THE INSTALLATION OF ALL WORK WITHIN THE AVAILABLE SPACE.

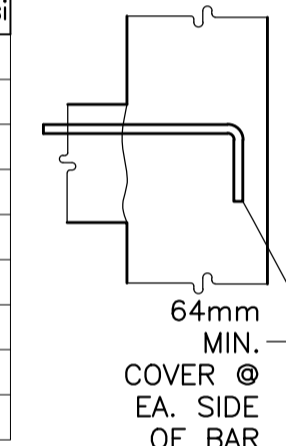
- DO NOT SCALE DRAWINGS, CALLED-OUT DIMENSIONS AND STANDARD CODE REQUIREMENTS SHALL GOVERN OVER UNSCALED DRAWINGS.

- SPECIAL NOTE: DIMENSIONS INDICATED ON THE STRUCTURAL DRAWINGS SHALL BE COORDINATED WITH THE ARCHITECTURAL DRAWINGS. ARCHITECTURAL DRAWINGS SHALL BE USED TO DEFINE DETAIL CONFIGURATIONS, ELEVATIONS, OPENINGS, JOINTS, SLOPES, ETC.

- THE CONTRACTOR IS GIVEN THE OPTION TO UTILIZE ALTERNATIVE METHODS OF DESIGN AND ALTERNATIVE METHOD OF CONSTRUCTION AS DEEMED SUITABLE PROVIDE THAT SUCH OPTION IS IN CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND IS COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS.

GENERAL NOTES

BAR SIZE	ALL MEMBERS U.N.O.						CONCRETE WALLS AND DIAPHRAGMS					
	Fc' = 3000psi		Fc' = 4000psi		Fc' = 5000psi		Fc' = 3000psi		Fc' = 4000psi		Fc' = 5000psi	
	1	2	3	1	2	3	1	2	3	1	2	3
10	6	6	6	7	6	6	6	6	6	6	6	6
12	8	7	6	9	8	7	8	7	7	7	7	7
16	10	9	8	11	10	9	10	9	9	9	9	9
20	12	10	9	13	11	10	11	10	10	10	10	10
22	14	12	11	15	13	12	13	12	12	12	12	12
25	16	14	12	17	15	14	15	14	14	14	14	14
28	18	15	14	20	17	15	17	15	15	15	15	15
32	20	17	16	22	19	17	19	17	17	17	17	17
36	22	19	17	24	21	19	21	19	19	19	19	19



- THESE DEVELOPMENT LENGTHS APPLY TO REGULAR WEIGHT CONCRETE MULTIPLY THE SPECIFIED DEVELOPMENT LENGTH BY 1.3 FOR LIGHTWEIGHT CONCRETE.
- THE DEVELOPMENT LENGTHS SPECIFIED FOR "CONCRETE WALLS & DIAPHRAGMS" ARE APPLICABLE IF THE HOOKED BAR IS WITHIN THE CONFINED CONCRETE CORE OF A BOUNDARY MEMBER.
- REFER TO SECTION FOR ADD'L. REQUIREMENTS FOR "ALL OTHER MEMBERS".

HOOKED BAR DEVELOPMENT LENGTH (Ld) SCHEDULE

- TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 300mm CONCRETE CAST IN THE MEMBER BELOW THE REINFORCEMENT.
- THESE BAR DEVELOPMENT LENGTHS APPLY TO REGULAR WEIGHT CONCRETE, MULTIPLY THE SPECIFIED DEV'T. LENGTH BY 1.3 FOR LIGHTWEIGHT CONCRETE.
- ALL DETAILING OF REINFORCEMENT SHALL COMPLY WITH THIS SCHEDULE UNLESS SPECIFICALLY DETAILED OTHERWISE ON THE DRAWINGS.
- db INDICATES DIAMETER OF THE BAR.
- LENGTHS SHOWN UNDER CONDITION 1 SHALL BE USED WHERE ANY ONE OF THE FOLLOWING IS SATISFIED:
 - BEAM AND COLUMN BARS WHERE "BAR SPACING 4db".
 - INNER LAYER OF SLAB OR WALL REINFORCEMENT WHERE "BAR SPACING 4db".
 - ANY REINF. WHERE "BAR COVER 2db" AND "BAR SPACING 4db".
- LENGTHS SHOWN UNDER CONDITION 2 SHALL BE USED WHERE "BAR COVER db" OR "BAR SPACING 3db".
- LENGTHS SHOWN UNDER CONDITION 3 SHALL BE USED WHERE CONDITION 1 OR 2 ARE NOT SATISFIED.
- IF "BAR SPACING 6db" AND "BAR COVER 2.5db" USE 80% OF LENGTH SPECIFIED IN SCHEDULE ABOVE.
- A STANDARD HOOK SHALL BE PROVIDED WHERE Ld IS UNATTAINABLE DUE TO SPACE RESTRICTIONS (REFER TO SCHEDULE FOR Ldh).

MEMBER TYPE	CLASS "A" LAP SPLICE SCHEDULE (L) (INCHES)																		
	Fc' = 3000 psi				Fc' = 4000 psi				Fc' = 5000 psi										
	CONDITION 1	CONDITION 2	CONDITION 3	CONDITION 1	CONDITION 2	CONDITION 3	CONDITION 1	CONDITION 2	CONDITION 3	CONDITION 1	CONDITION 2	CONDITION 3							
ALL MEMBERS U.N.O.	10	17	13	17	13	17	13	14	12	14	12	14	12	13	12	13	12	13	12
	12	22	17	23	18	22	17	19	15	20	15	19	15	17	13	18	14	17	13
	16	27	21	35	27	27	21	24	18	31	24	18	21	16	28	21	21	16	
	20	33	25	51	39	36	28	28	22	44	34	31	24	25	20	39	30	28	21
	22	38	29	61	53	48	37	33	25	60	46	42	32	29	23	54	41	38	29
	25	45	35	90	69	63	49	39	30	78	60	55	42	35	27	70	54	49	38
	28	57	44	114	88	80	62	50	38	99	76	69	54	45	34	89	68	62	48
	32	73	56	145	111	101	78	63	49	125	97	88	68	56	43	112	86	79	61
	36	89	69	178	137	125	96	77	60	154	119	108	83	69	53	138	106	97	75
ALL CONCRETE WALLS AND DIAPHRAGMS	10	23	16	23	16	23	16	21	15	21	15	21	15	21	15	21	15	21	15
	12	30	22	30	22	30	22	26	19	26	19	26	19	23	17	23	17	23	17
	16	37	27	37	27	37	27	32	23	32	23	32	23	29	21	29	21	29	21
	20	45	32	45	32	45	32	39	28	39	28	39	28	35	25	35	25	35	25
	22	52	37	52	37	52	37	45	32	45	32	45	32	40	29	40	29	40	29
	25	59	43	59	43	59	43	52	37	52	37	52	37	46	33	46	33	46	33
	28	67	48	67	48	67	48	58	42	58	42	58	42	52	37	52	37	52	37
	32	75	54	75	54	75	54	65	47	65	47	65	47	59	42	59	42	59	42
	36	84	60	84	60	84	60	73	52	73	52	73	52	65	47	65	47	65	47

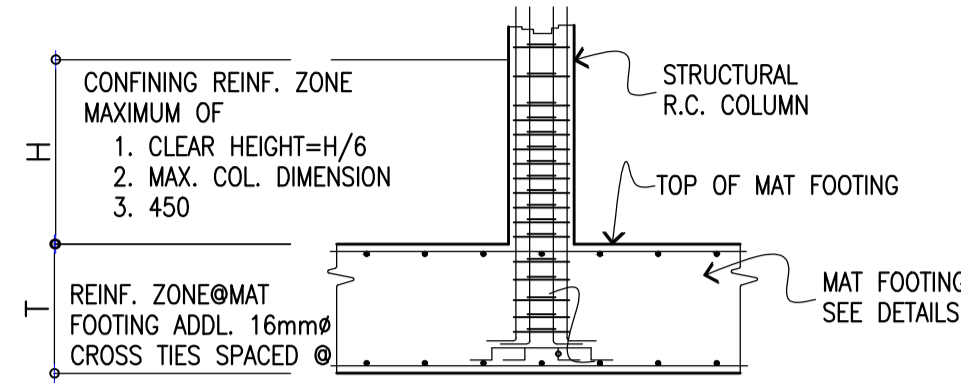
BAR DEVELOPMENT LENGTH (Ld) SCHEDULE

MEMBER TYPE	CLASS "B" LAP SPLICE SCHEDULE (L) (INCHES)																		
	Fc' = 3000 psi				Fc' = 4000 psi				Fc' = 5000 psi										
	CONDITION 1	CONDITION 2	CONDITION 3	CONDITION 1	CONDITION 2	CONDITION 3	CONDITION 1	CONDITION 2	CONDITION 3	CONDITION 1	CONDITION 2	CONDITION 3							
ALL MEMBERS U.N.O.	10	21	17	21	17	21	17	19	16	19	16	17	16	17	16	17	16	17	16
	12	28	22	30	23	28	22	25	19	26	20	25	19	22	17	23	18	22	17
	16	35	27	46	35	35	27	31	24	40	31	31	24	21	16	28	27	21	16
	20	42	33	66	51	46	36	37	28	57	44	40	31	23	25	51	39	36	28
	22	49	38	90	69	63	37	43	33	78	60	54	42	38	29	69	54	49	38
	25	59	45	117	90	82	63	51	39	101	78	71	55	46	35	91	70	64	49
	28	74	57	148	114	104	80	65	50	129	99	69	58	45	115	89	81	62	49
	32	94	73	188	145	132	101	82	63	163	125	114	88	73	56	146	112	102	79
	36	116	89	232	178	162	125	101	77	201	154	141	108	90	69	180	138	126	97
ALL CONCRETE WALLS AND DIAPHRAGMS	10	29	21	29	21	29	21	28	20	28	20	28	20	28	20	28	20	28	20
	12	29	28	39	28	39	28	34	24	34	24	34	24	30	22	30	22	30	22
	16	48	35	48	35	48	35	42	30	42	30	42	30	38	27	38	27	38	27
	20	58	42	58	42	58	42	50	36	50	36	50	36	45	32	45	32	45	32
	22	68	48	68	48	68	48	59	42	59	42	59	42	52	38	52	38	52	38
	25	77	55	77	55	77	55	67	48	67	48	67	48	60	43	60	43	60	43
	28	87	62	87	62	87	62	75	54	75	54	75	54	67	48	67	48	67	48
	32	98	70	98	70	98	70	85	61	85	61	85	61	76	54	76	54	76	54
	36	109	78	109	78	109	78	94	67	94	67	94							

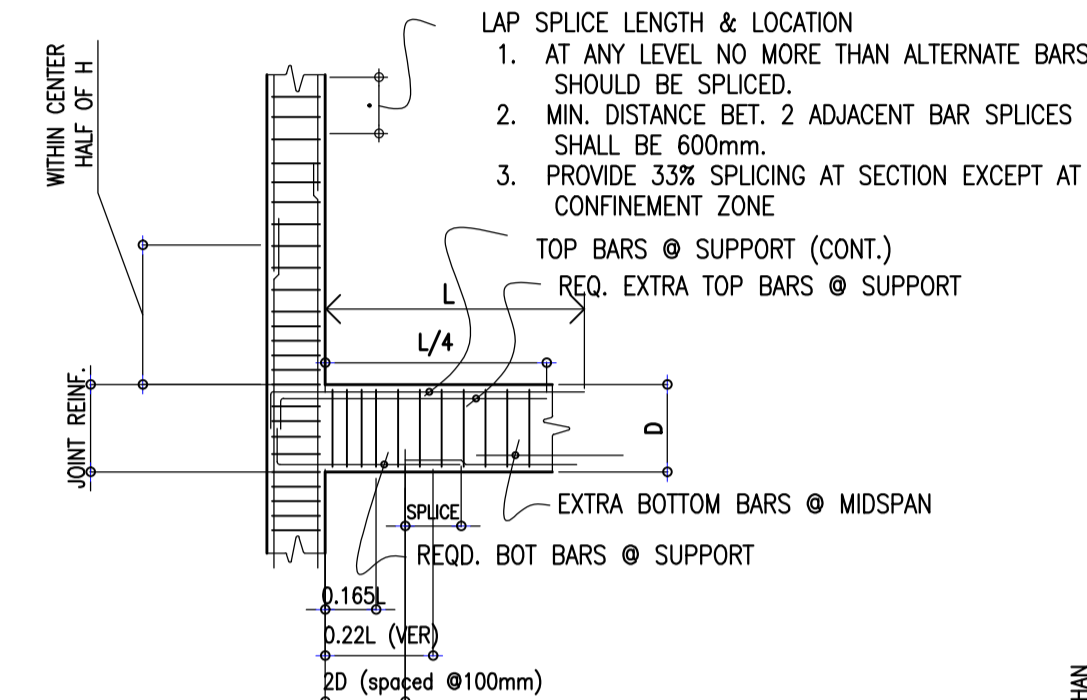
STRUCTURAL NOTES

MINIMUM 2 WIRE TIES AT ALL SPLICES PROJECTING FROM FOOTINGS, TYPICAL.

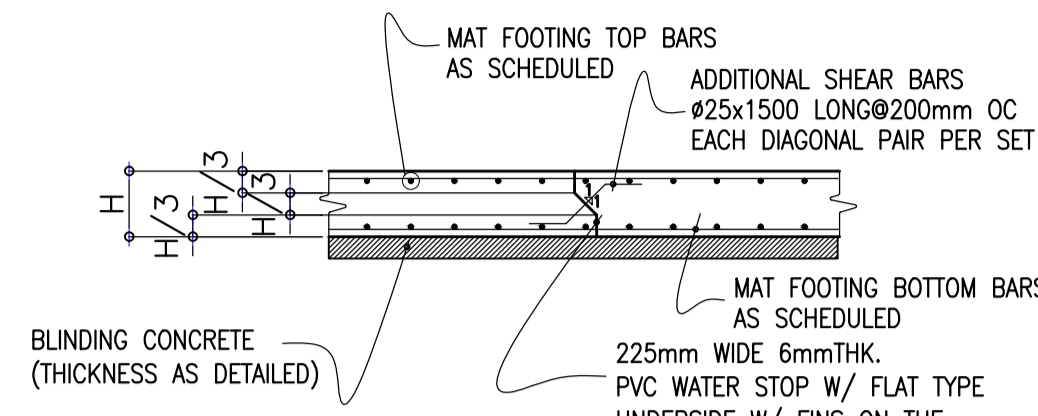
- TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 300mm CONCRETE CAST IN THE MEMBER BELOW THE REINFORCEMENT.
- THESE BAR DEVELOPMENT LENGTHS APPLY TO REGULAR WEIGHT CONCRETE, MULTIPLY THE SPECIFIED DEVELOPMENT LENGTH BY 1.3 FOR LIGHTWEIGHT CONCRETE.
- ALL DETAILING OF REINFORCEMENT SHALL COMPLY WITH THIS SCHEDULE UNLESS SPECIFICALLY DETAILED OTHERWISE ON THE DRAWINGS.
- db INDICATES DIAMETER OF THE BAR.
- LENGTHS SHOWN UNDER CONDITION 1 SHALL BE USED WHERE ANY ONE OF THE FOLLOWING IS SATISFIED:
 - BEAM AND COLUMN BARS WHERE "BAR SPACING $\geq 4db$ ".
 - INNER LAYER OF SLAB OR WALL REINFORCEMENT WHERE "BAR SPACING $\geq 4db$ ".
 - ANY REINF. WHERE "BAR COVER $\geq 2db$ " AND "BAR SPACING $\geq 4db$ ".
- LENGTHS SHOWN UNDER CONDITION 2 SHALL BE USED WHERE "BAR COVER $\leq db$ " OR "BAR SPACING $\leq 3db$ ".
- LENGTHS SHOWN UNDER CONDITION 3 SHALL BE USED WHERE CONDITION 1 OR 2 ARE NOT SATISFIED.
- IF "BAR SPACING $\geq 6db$ " AND "BAR COVER $\geq 2.5db$ " USE 80% OF LENGTH SPECIFIED IN SCHEDULE ABOVE.
- USE CLASS "B" SPLICES U.N.O. AT CLASS "B" SPLICES ONE HALF OR LESS OF THE TOTAL REINFORCEMENT. REINFORCEMENT IS SPLICED WITHIN THE REQUIRED LAP LENGTH.
- FOR CLASS "A" SPLICES USE SAME VALUES
- SMALLER BAR LAP LENGTH SHALL BE USED WHEN SPLICING DIFFERENT SIZES BARS.
- AT CONCRETE WALLS SPLICES IN HORIZONTAL REINFORCEMENT SHALL BE STAGGERED.
- AT CONCRETE WALLS SPLICES IN TWO CURTAINS, WHERE USED, SHALL NOT OCCUR IN THE SAME LOCATION.
- ALL FOOTING DOWELS SHALL HAVE CLASS "B" LAP SPlice AT VERTICAL WALL/ COLUMN BARS (STAGGER DOWEL HEIGHTS).



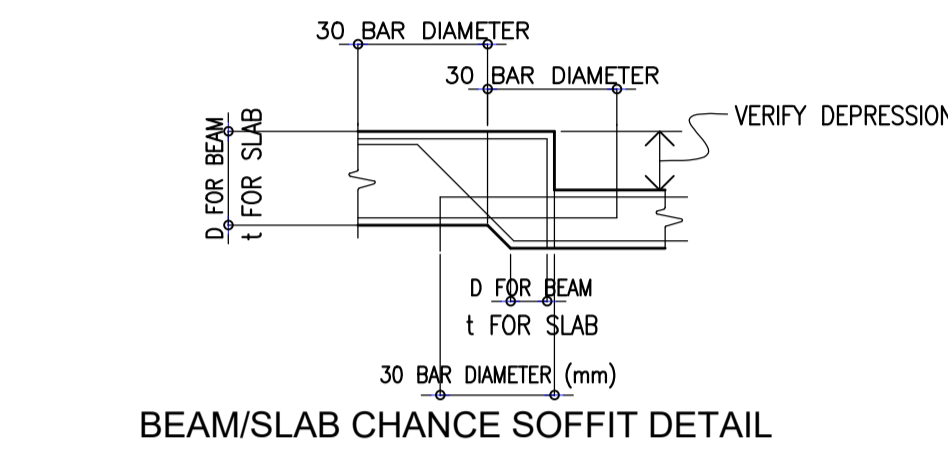
COLUMN VERTICAL BARS EMBEDDED TO FOOTING DETAIL



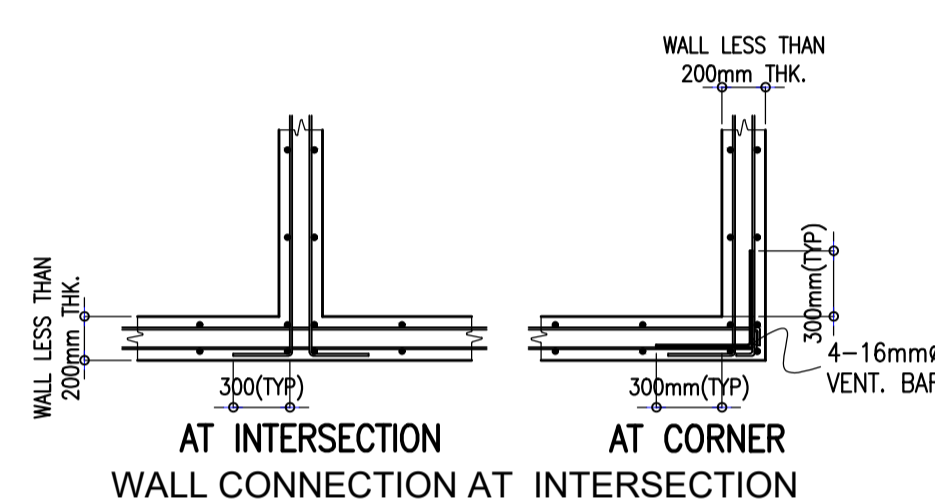
COLUMN LAP SPICE AND EXTERIOR GIRDER TO COLUMN CONNECTION DETAIL



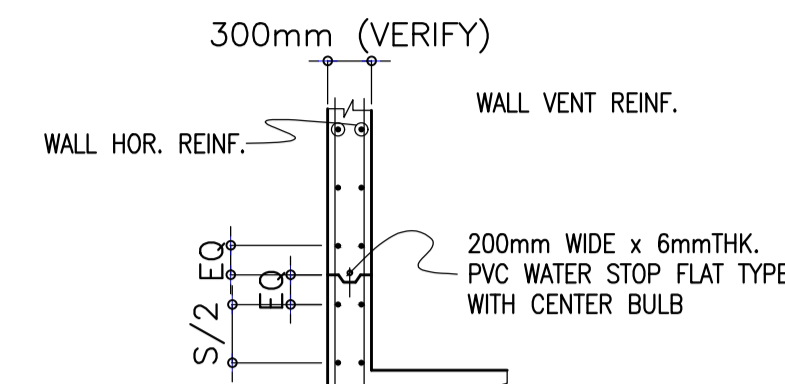
FOOTING CONSTRUCTION JOINT DETAIL



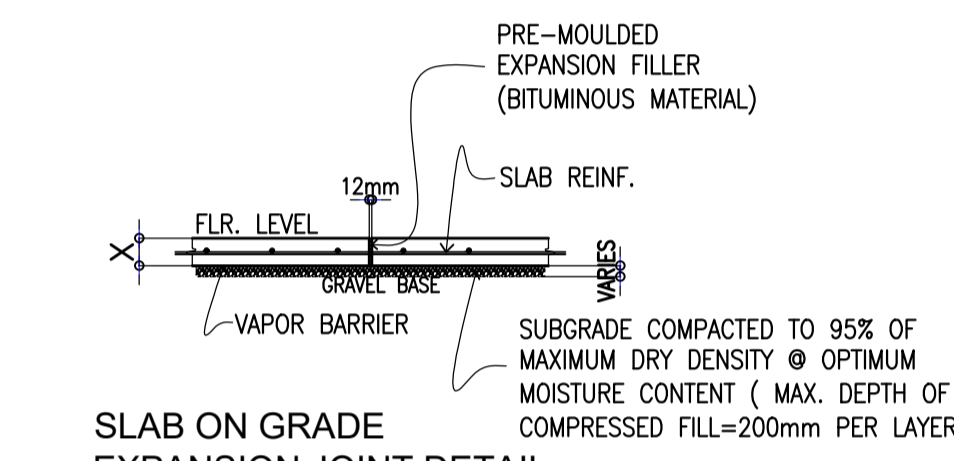
BEAM/SLAB CHANCE SOFFIT DETAIL



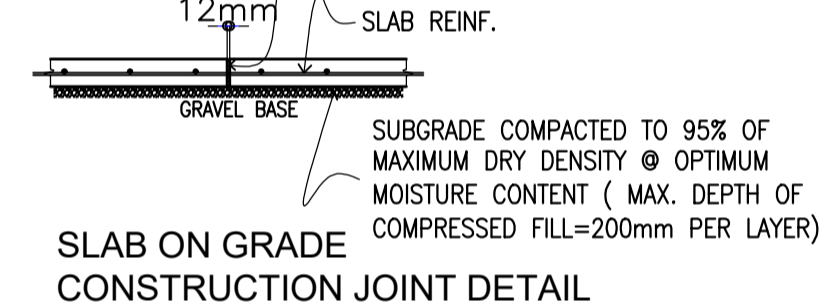
WALL CONNECTION AT INTERSECTION



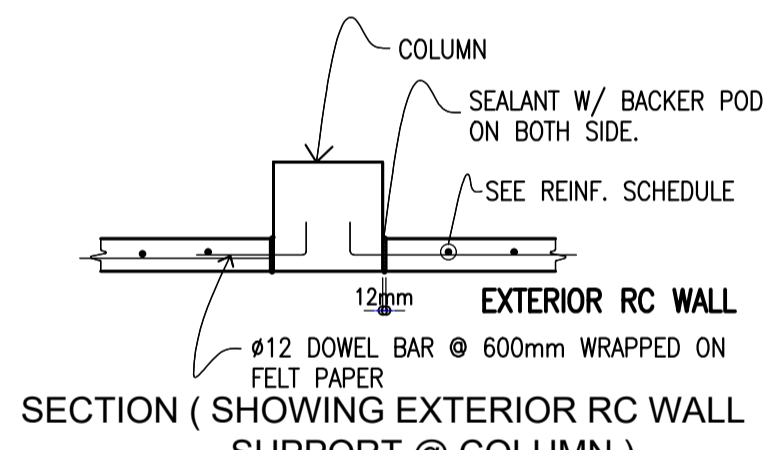
SUSPENDED SLAB CONSTRUCTION JOINT DETAIL



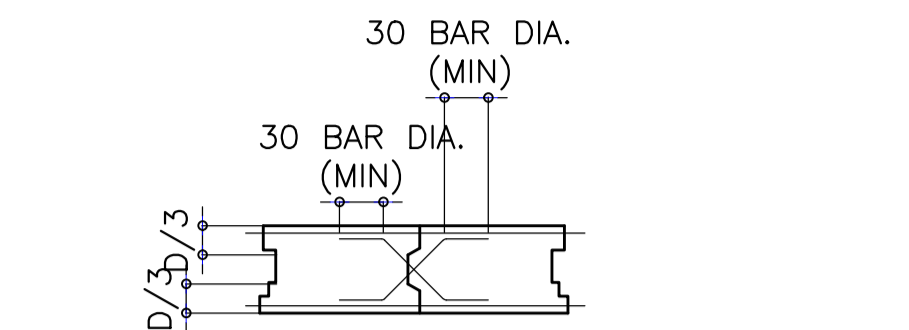
SLAB ON GRADE EXPANSION JOINT DETAIL



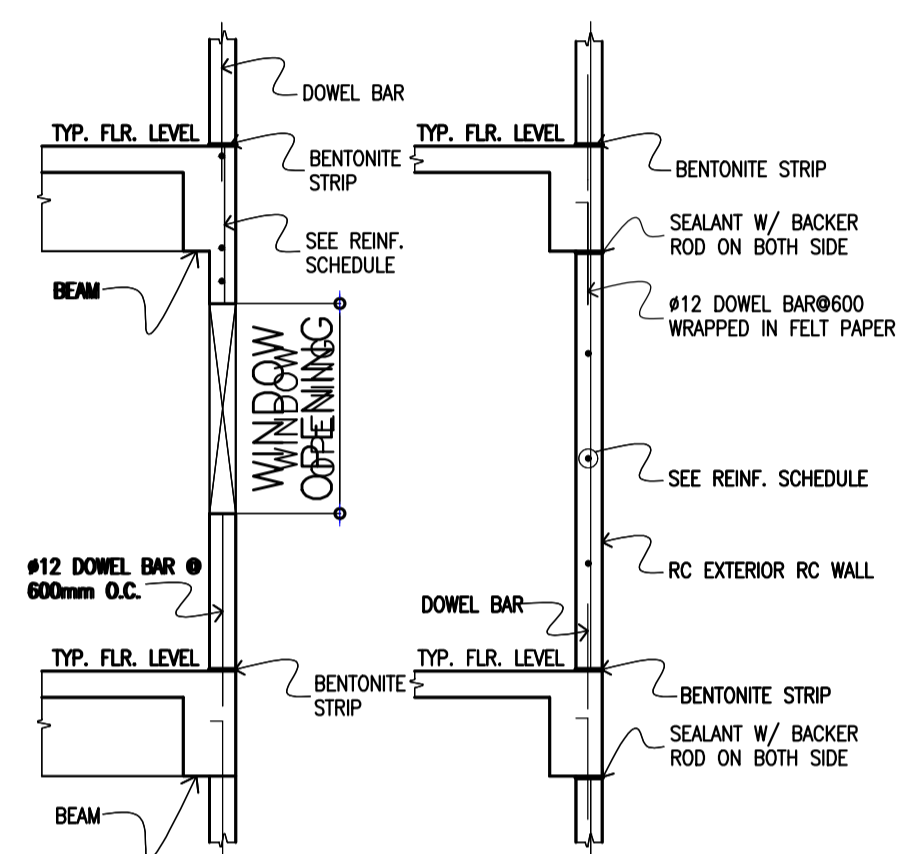
SLAB ON GRADE CONSTRUCTION JOINT DETAIL



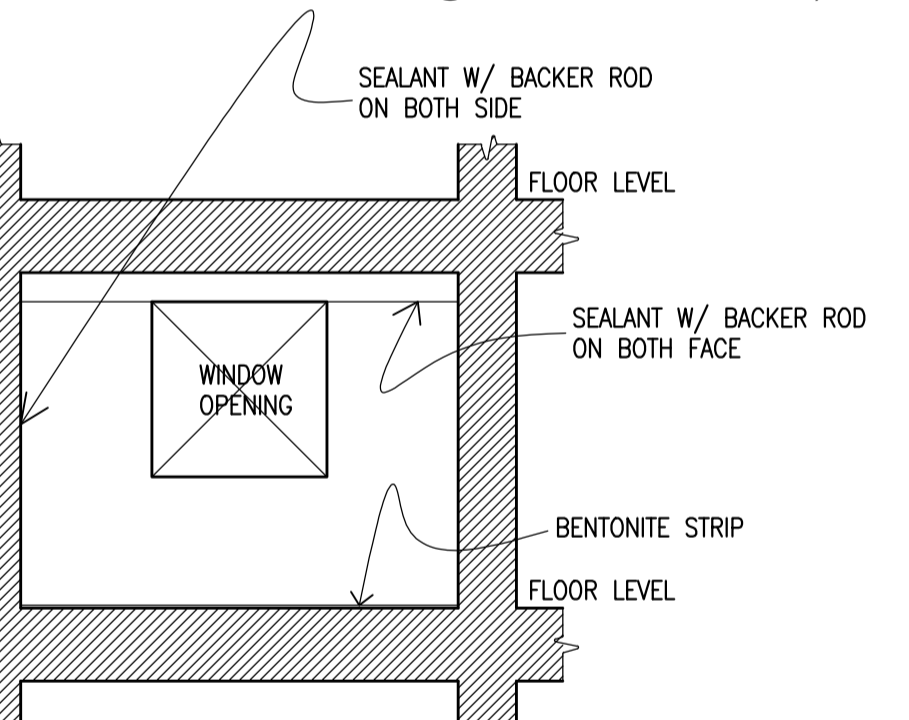
SECTION (SHOWING EXTERIOR RC WALL SUPPORT @ COLUMN)



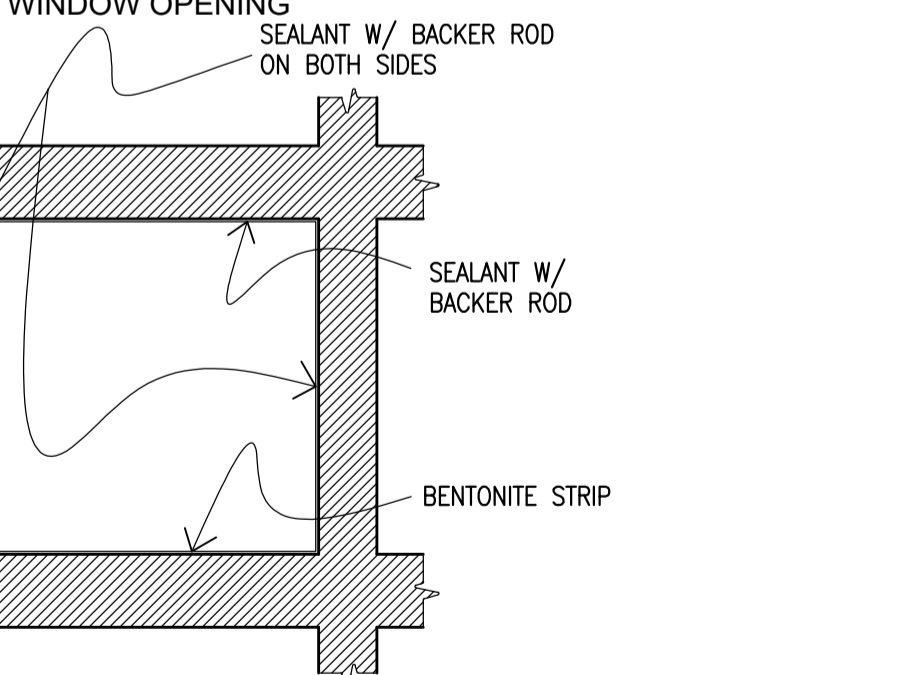
BEAM CONSTRUCTION JOINT DETAIL



SECTION (SHOWING EXTERIOR RC WALL SUPPORT @ TOP & BOT OF BEAM)



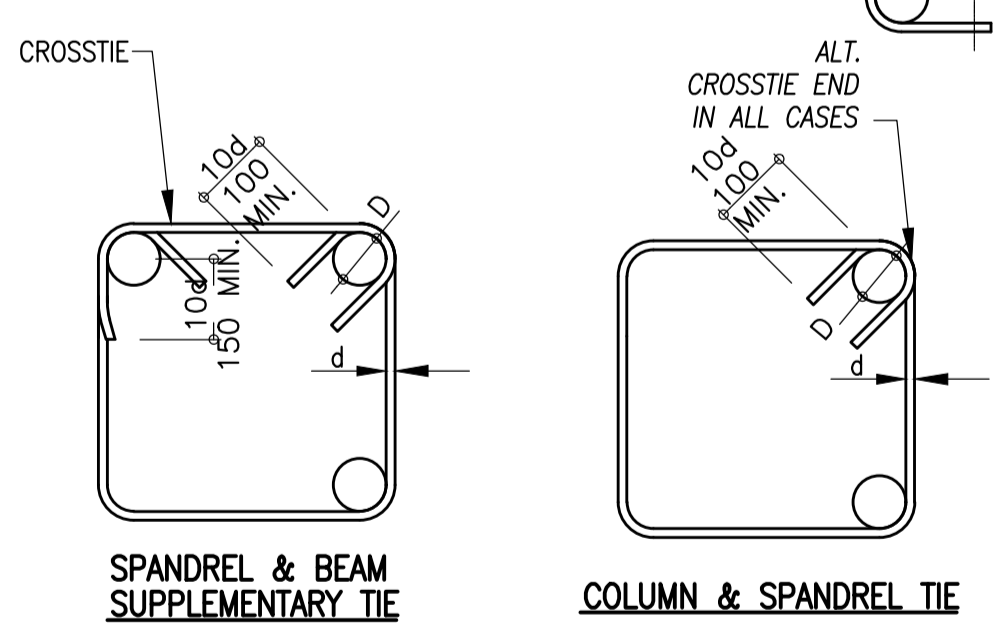
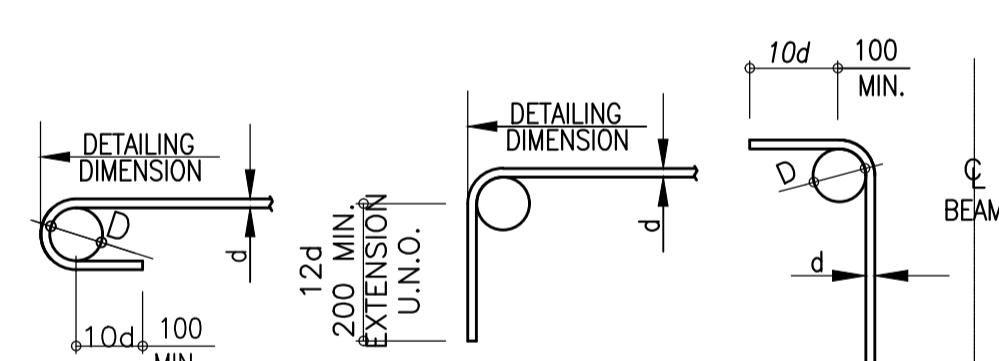
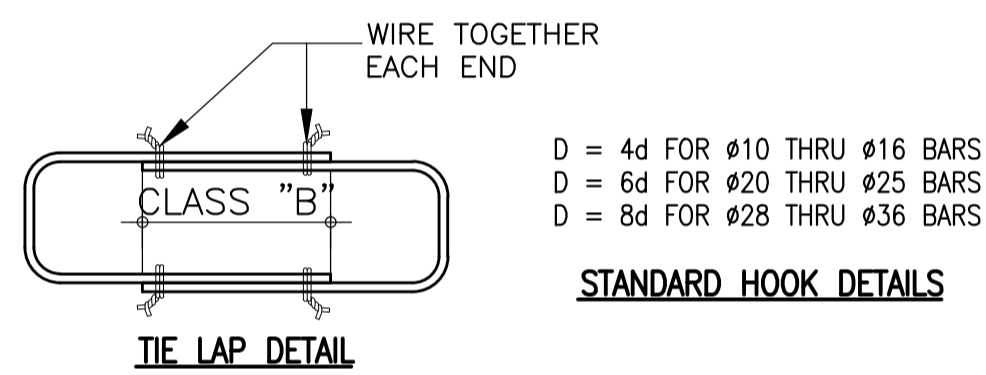
TYP. EXTERIOR RC. WALL ELEVATION @ WINDOW OPENING



TYP. EXTERIOR RC. WALL ELEVATION

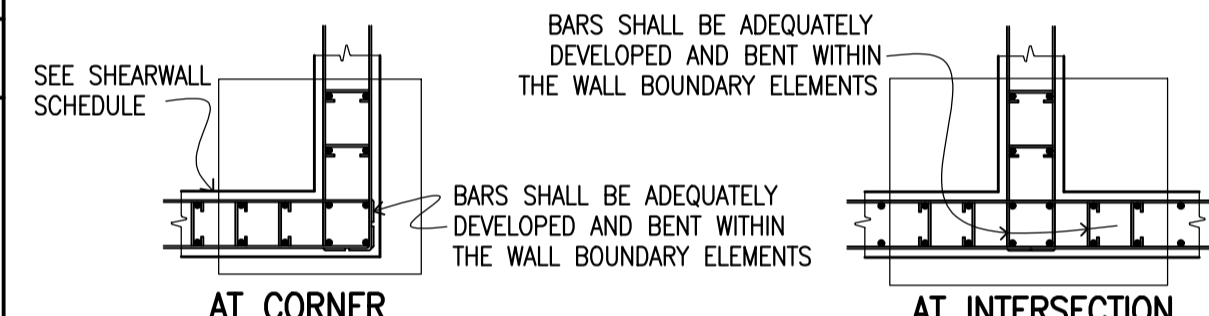
REINFORCEMENT LAP SPICE DET.

8

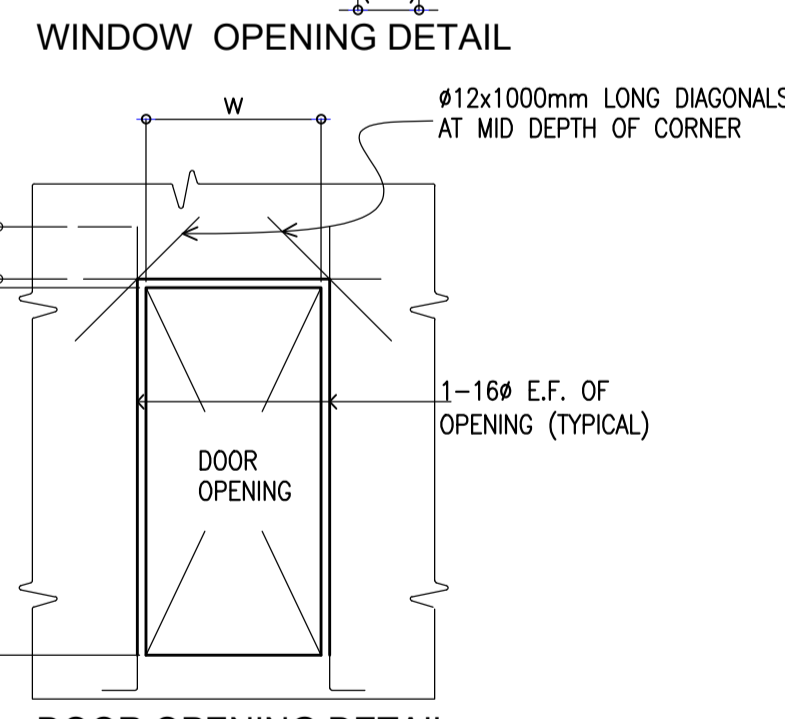
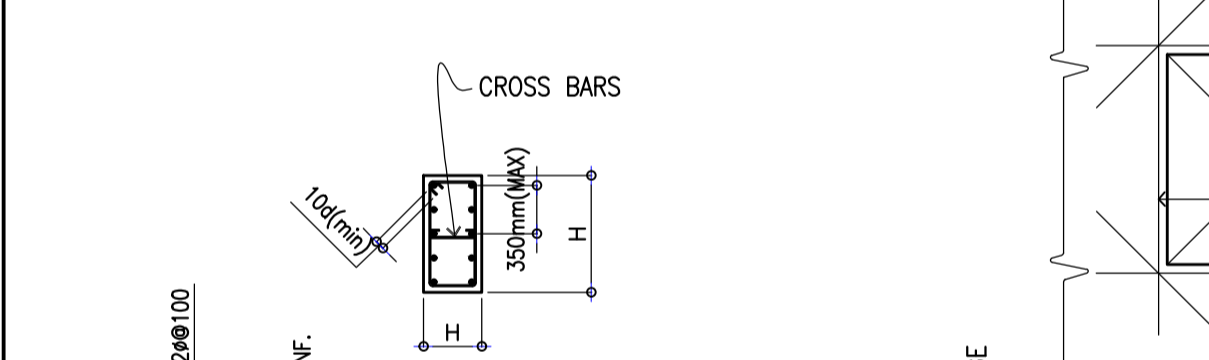


REINFORCING STEEL BAR BENDING DETAIL

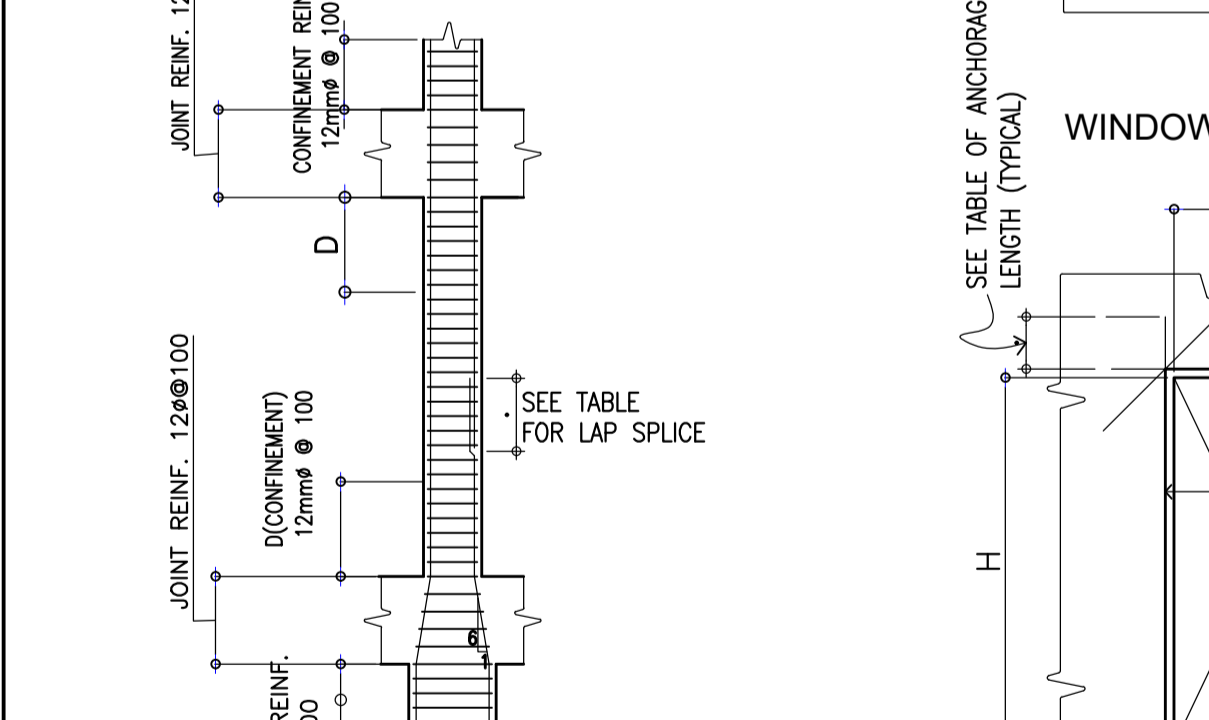
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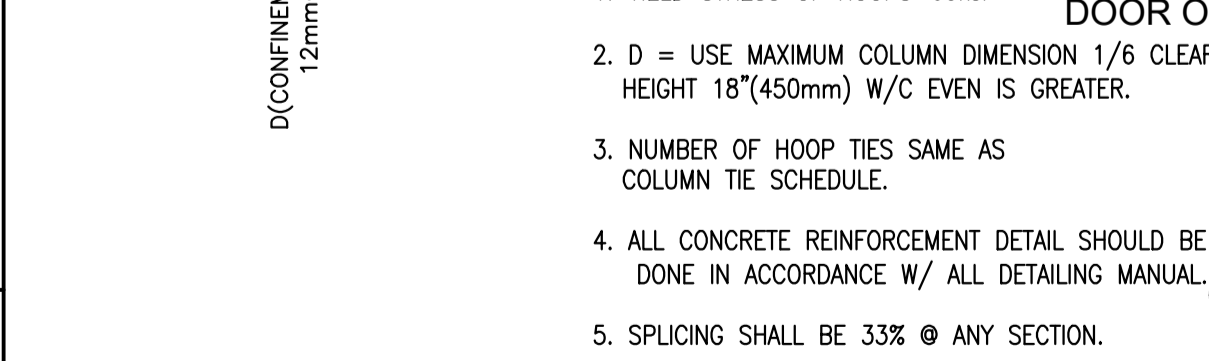
AT CORNER DEV'T HOOK FOR SHEAR RESISTING HORIZONTAL BAR INTO THE SEARWALLS CONFINEMENT ZONES



DOOR OPENING DETAIL



WINDOW OPENING DETAIL



DOOR OPENING DETAIL

- NOTES:
- YIELD STRESS OF HOOPS=60ksi
 - D = USE MAXIMUM COLUMN DIMENSION 1/5 CLEAR HEIGHT 18"(450mm) W/C EVEN IS GREATER.
 - NUMBER OF HOOP TIES SAME AS COLUMN TIE SCHEDULE.
 - ALL CONCRETE REINFORCEMENT DETAIL SHOULD BE DONE IN ACCORDANCE W/ ALL DETAILING MANUAL.
 - SPLICING SHALL BE 33% @ ANY SECTION.

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TYPICAL R.C. DETAILS AND CONSTRUCTION NOTES

SCALE:

NTS

ENRIQUE O. OLANON & ASSOCIATES
ARCHITECTS ENGINEERS CONSULTANTS

SUITE 305 XAVIERVILLE SQUARE CONDOMINIUM NO. 38 XAVIERVILLE AVENUE, LORON HEIGHTS, QUEZON CITY, 1108
TEL. NOS: 426 7009; 426 3900-04
FAX NOS: 927 0608; 426 7214

IN JOINT VENTURE WITH
ENRIQUE O. OLANON & ASSOCIATES, CO.
ARCHITECTS ENGINEERS CONSULTANTS

ENGINEER:

ARNEL NIXON D. TAÑAZANA
STRUCTURAL ENGINEER

PRC No. 0078960 Validity: 04-14-2023
PTR No. 8676828 Date: 01-07-2021
Place: MARIKINA CITY TIN: 192-932-067

REPUBLIC ACT 9266

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PROJECT:

PROPOSED ACADEMIC BUILDING II

LOCATION: Brgy. Rizal, Odiangan, Romblon

DESIGNED FOR:

REPUBLIC OF THE PHILIPPINES
PHILIPPINE SCIENCE HIGH SCHOOL -
MIMAROPA REGIONAL CAMPUS

RECOMMENDING APPROVAL:

MERIAM F. FALLAR
FAD CHIEF

APPROVED BY:

EDWARD C. ALBARACIN
CAMPUS DIRECTOR

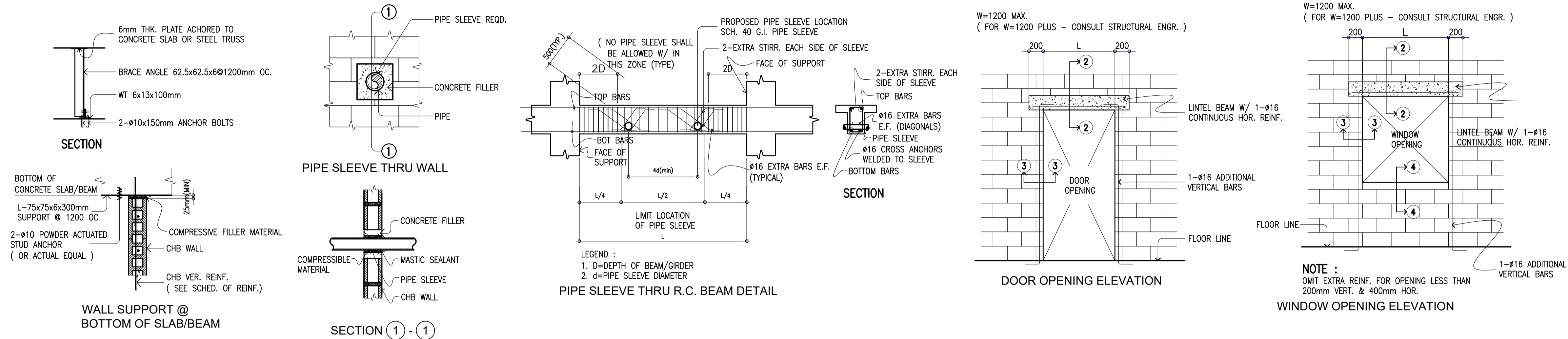
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CONSTRUCTION NOTES

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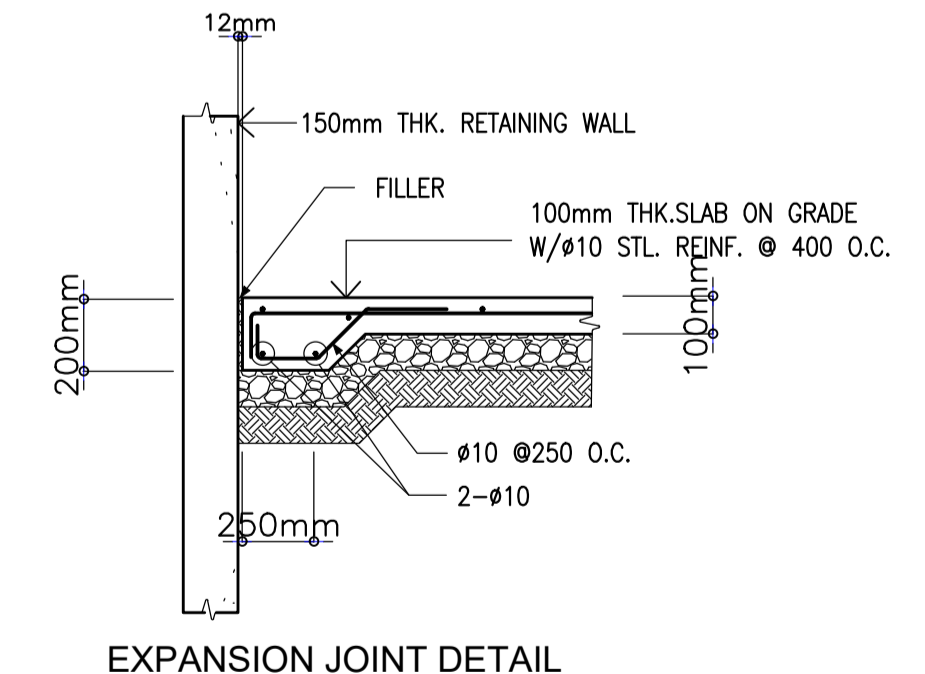
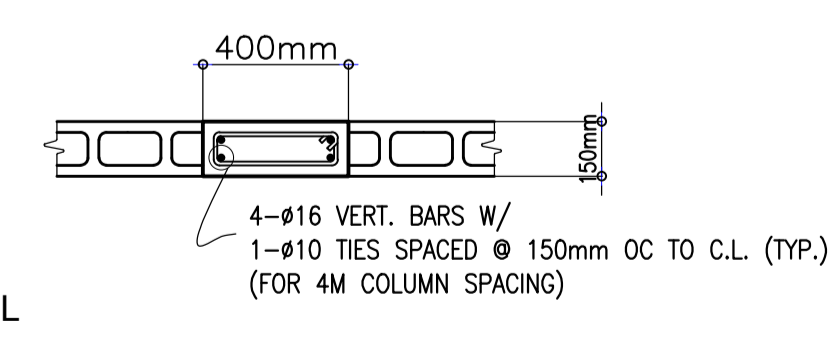
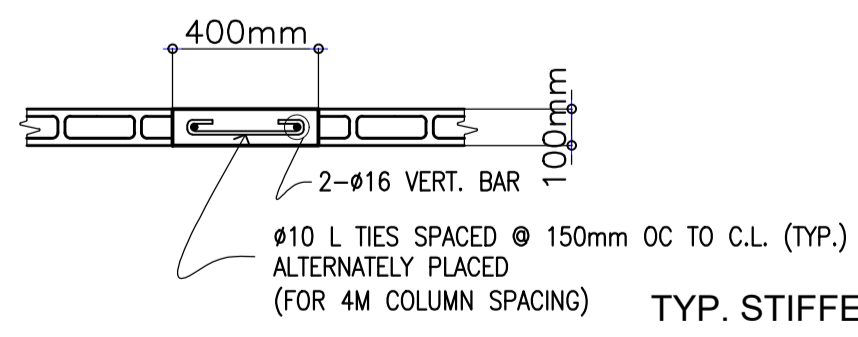
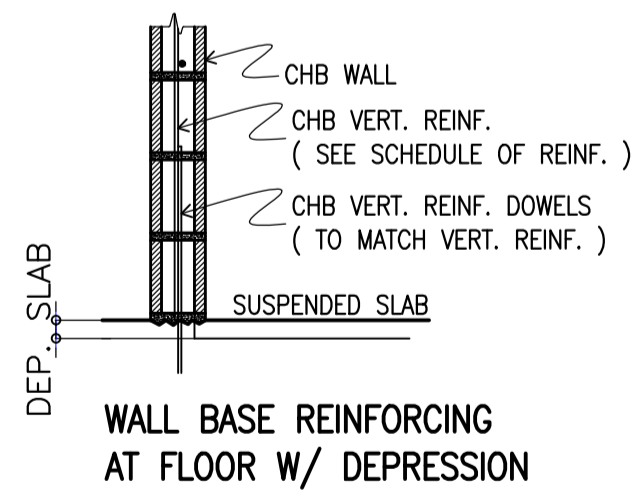
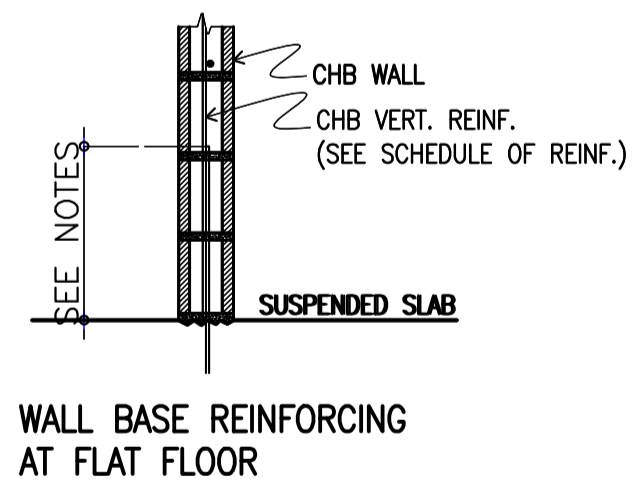
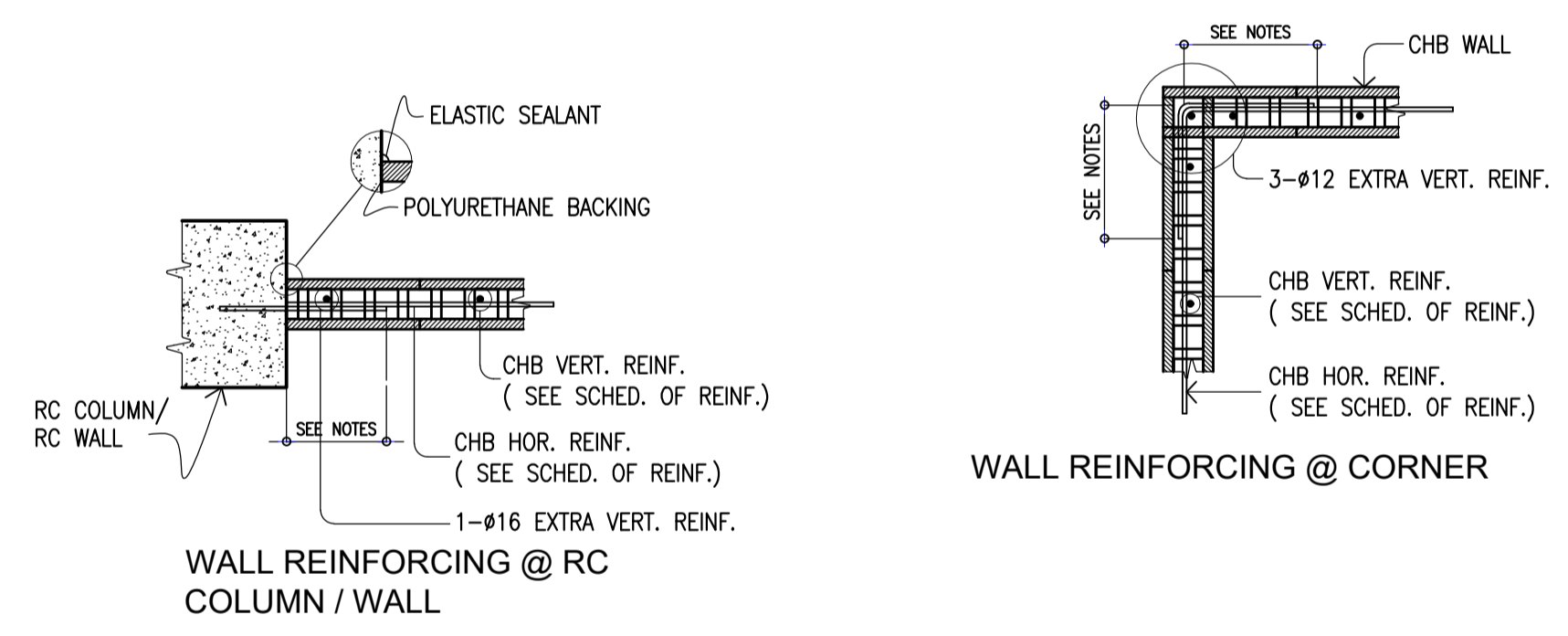
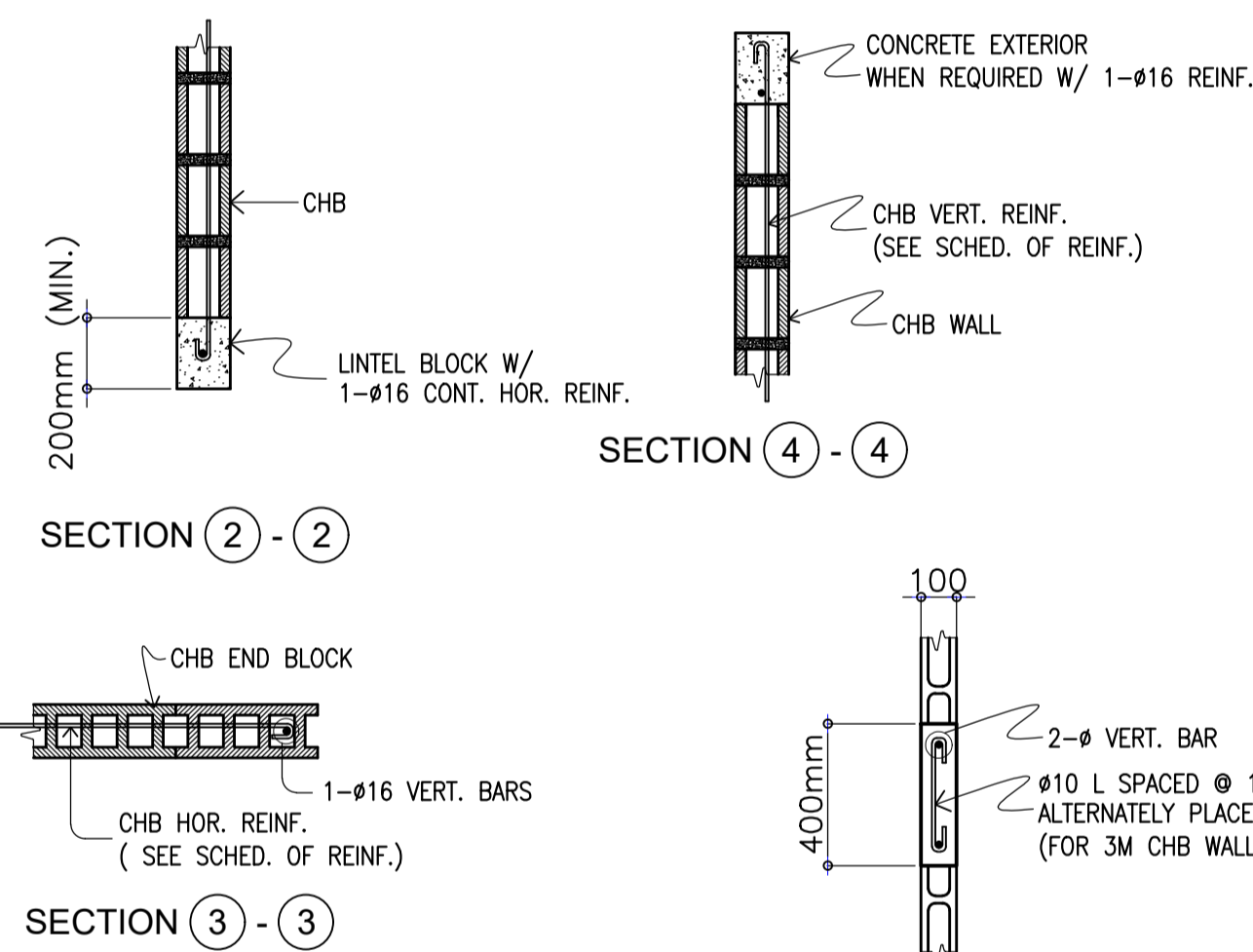
STRUCTURAL NOTES



NOTES ON MASONRY AND CONCRETE BLOCKS

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- PROVIDE 1-#16 EXTRA VERTICAL BARS @ CORNERS, INTERSECTION, END OF WALLS AND EACH SIDE OF OPENINGS AS SHOWN.
- LINTEL BEAMS OR LINTEL BLOCKS SHALL BEAR @ LEAST 8 INCHES (200mm) ON EACH SIDE OF MASONRY WALL OPENINGS.
- CHB WALL REINFORCEMENTS SHALL BE AS FOLLOWS.

WALL THICKNESS	VERTICAL REINFORCEMENTS	HORIZONTAL REINFORCEMENTS
8" (200mm)	Ø 12 @ 400mm	Ø 10 @ 600mm
6" (150mm)	Ø 10 @ 400mm	Ø 10 @ 600mm
4" (100mm)	Ø 10 @ 400mm	Ø 10 @ 600mm
- BLOCK WALL REINFORCING BARS SHALL LAPPED A MINIMUM OF 30 BAR DIAMETERS WHERE SPLICED, HORIZONTAL/VERTICAL DOWELS FROM FOOTINGS, COLUMNS/ WALLS ON BARS SHALL BE EXTEND INTO THE BLOCK WALL A MINIMUM OF 30 BAR DIAMETER ON A MINIMUM OF 400mm. W/C EVEN IS LONGER AND DOWELS TO MATCH VERTICAL REINFORCEMENT OF WALL.
- ALL CELLS CONTAINING REINFORCING BARS OR INSERTS SHALL BE SOLELY FILLED W/ CONCRETE GROUT (REFER TO SPECIFICATION)



MISCELLANEOUS DETAILS & MASONRY DETAILS

ENRIQUE O. OLONAN & ASSOCIATES ARCHITECTS ENGINEERS CONSULTANTS IN JOINT VENTURE WITH ENRIQUE O. OLONAN & ASSOCIATES, CO. ARCHITECTS ENGINEERS CONSULTANTS	ENGINEER: ARNEL NIXON D. TAÑAZANA STRUCTURAL ENGINEER PRC No. 0078960 Validity: 04-14-2023 PTR No. 8676828 Date: 01-07-2021 Place: MARIKINA CITY TIN: 192-932-067	REPUBLIC ACT 9266 DRAWINGS AND SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS DULY SIGNED, STAMPED OR SEALED, AS INSTRUMENTS OF SERVICE, ARE THE INTELLECTUAL PROPERTY AND DOCUMENT OF THE ARCHITECT. WHETHER THE OBJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT, IT SHALL BE UNLAWFUL FOR ANY PERSON TO DUPLICATE OR TO MAKE COPIES OF SAID DOCUMENTS FOR USE IN THE REPRODUCTION OF AND FOR OTHER PROJECTS OR BUILDINGS, WHETHER EXECUTED PARTY OR IN WHOLE, WITHOUT THE WRITTEN CONSENT OF ARCHITECT OR AUTHOR OF SAID DOCUMENT.	PROJECT: PROPOSED ACADEMIC BUILDING II LOCATION: Brgy. Rizal, Odiangan, Romblon	DESIGNED FOR: REPUBLIC OF THE PHILIPPINES PHILIPPINE SCIENCE HIGH SCHOOL - MIMAROPA REGIONAL CAMPUS	RECOMMENDING APPROVAL: MERIAM F. FALLAR FAD CHIEF	APPROVED BY: EDWARD C. ALBARACIN CAMPUS DIRECTOR	SHEET CONTENTS: CONSTRUCTION NOTES	SHEET NO.: S 319
	SCALE: 1/31							

STRUCTURAL NOTES

- 1. DESIGN CRITERIA**
- A. DESIGN REFERENCES AND CODES**
 THE STRUCTURAL DESIGN OF THE PROPOSED BUILDING WILL BE DONE BASED ON THE FOLLOWING CODES AND REFERENCES:
- (NSCP 7th Ed.) NATIONAL STRUCTURAL CODE OF THE PHILIPPINES 2015 RELEASE
 - (ACI 318-14/318R-14) BUILDING CODES REQUIREMENTS FOR REINFORCED CONCRETE AND COMMENTARY
 - (ASCE/SEI 7-05) MINIMUM DESIGN LOADS FOR BUILDING AND OTHER STRUCTURES
 - (UBC) UNIFORM BUILDING CODE, 1997 EDITION
 - (AISC LRFD) LOAD AND RESISTANCE FACTOR DESIGN CRITERIA FOR BUILDING
- 2. DESIGN LOADS**
 THE FOLLOWING DESIGN LOADS AND PARAMETERS SHALL BE USED:
- A. UNIT WEIGHT**
- CONCRETE - 24 KN/cu.m.
 - STEEL - 77 KN/cu.m.
 - WATER - 9.81 KN/cu.m.
- B. DEAD LOADS**
- SELF-WEIGHT OF STRUCTURE 2.40 KPa
 - SUPER-IMPOSED DEAD LOAD AT GROUND 2.40 KPa
 - SUPER-IMPOSED DL AT TYP. FLOORS 2.40 KPa
 - SUPER-IMPOSED ROOFDECK DEAD LOAD 1.80 KPa
 - SIDINGS / ENCLOSURE PERIMETER 9.51 KN/m
- C. LIVE LOADS**
- LIVE LOAD AT GROUND FLOOR 7.20 KPa
- LIVE LOAD AT TYPICAL FLOORS
- OFFICES 2.40 KPa
 - LOBBIES & CORRIDORS 2.40 KPa
 - STORAGE AREAS (LIGHT) 2.40 KPa
 - PEDESTRIAN BRIDGES 6.00 KPa
 - WALKWAYS 4.80 KPa
 - EXIT FACILITIES 4.80 KPa
 - AUDITORIUMS 4.80 KPa
 - ASSEMBLY AREAS 4.80 KPa
 - STAIRS 4.80 KPa
 - CONFERENCE ROOMS 4.80 KPa
 - PARKING (PRIVATE VEHICLE) 4.80 KPa
 - RAMPS (PRIVATE VEHICLE) 4.80 KPa
 - LIVE LOAD AT ROOFDECK FLOOR 2.40 KPa
 - OPEN DECK 4.80 KPa
 - GENERATOR/EQUIPMENT 0.96 KPa
- ACTUAL OPERATIONAL WEIGHT
- D. WIND LOAD (NSCP 2015, 7th Edition)**
- OCCUPANCY CATEGORY I (ESSENTIAL FACILITY)
- BASIC WIND VELOCITY 260 kph
- EXPOSURE CATEGORY D
- IMPORTANCE FACTOR 1.50
- TOPOGRAPHICAL FACTOR, Kzt 1.00
- GUST FACTOR 0.85
- DIRECTIONALITY FACTOR, Kd 0.85
- E. SEISMIC LOAD (NSCP 2017, 7th Edition, UBC 1997)**
- OCCUPANCY CATEGORY I (ESSENTIAL)
- IMPORTANCE FACTOR (I) 1.50
- COEFFICIENT OF VELOCITY (Cv) 0.96Nv = 1.38
- COEFFICIENT OF ACCELERATION (Ca) 0.44Na = 0.49
- SOIL PROFILE TYPE Se
- RESPONSE MODIFICATION FACTOR "R" 8.5 (Special Moment Resisting Frames)
- 3. LOAD COMBINATIONS**
 THE FOLLOWING LOAD COMBINATIONS SHALL BE ADOPTED FOR THE STRUCTURAL DESIGN OF THE BUILDING AS PER THE PROVISIONS OF IBC 2009, ASCE/SEI 7-05, LRFD & NSCP 2010 Section 203.3.1:
- 1.4DL
 - 1.2DL + 1.6OLL
 - 1.2DL + 1.6OLL + 0.8WIND
 - 1.2DL + 0.5OLL + 1.6OWIND
 - 0.9ODL + 1.6OWIND
 - 1.2ODL + 0.5OLL + 1.0EQK
 - 0.9ODL + 1.0EQK

- C. FABRICATION:**
- 1. WELDS:**
 ALL WELDED CONNECTIONS SHALL DEVELOP THE FULL STRENGTH OF THE MEMBERS CONNECTED.
- LENGTH OF WELDS: THE MINIMUM LENGTH OF FILLET SHALL NOT BE LESS 4 TIMES THE NOMINAL SIZE WHERE INTERMITTENT WELDS MAY BE USED. THE LENGTH OF SEGMENT SHALL NOT BE LESS THAN 4 TIMES THE WELD SIZE WITH A MINIMUM OF 40mm.
 - END OF RETURN OF FILLET WELDS: SIDE OR END FILLET WELDS TERMINATING AT END OR SIDES SHALL BE RETURNED CONTINUOUSLY FOR A DISTANCE NOT LESS THAN TWICE THE NOMINAL SIZE OF THE WELD.
 - USE E70 ELECTRODES FOR ALL WELDS IN THE STRUCTURAL STEEL.
 - WELDED CONNECTIONS SHALL BE TESTED USING ULTRASONIC TESTING AT THE EXPENSE OF THE CONTRACTOR AS FOLLOWS:
 - SHOP WELDS - 90% OF THE TOTAL NO. OF JOINTS
 - FIELD WELDS - 20% OF THE TOTAL NO. OF JOINTS AT RANDOMLY SELECTED
 - ROOF TRUSS JOINTS:
 - DPT (DYE PENETRATION TESTING)
- IN ADDITION, THE INSPECTOR OR DESIGNER MAY PIN POINT ADDITIONAL JOINT OR SPLICE SUBJECT FOR TESTING WHICH MAY EXHIBIT DOUBTFUL CONNECTION. THE COST OF ALL ADDITIONAL JOINTS SUBJECT TO TESTING THAT IS FOUND SATISFACTORY SHALL BE BORN BY THE OWNER. HOWEVER, ALL CONNECTIONS FOUND DEFICIENT SHALL BE RECTIFIED BY THE CONTRACTOR AT ITS OWN EXPENSE.
- 2. BOLTS:**
- MINIMUM EDGE DISTANCE: THE MINIMUM EDGE DISTANCE OF BOLTS UNLESS OTHERWISE SPECIFIED SHALL CONFORM TO THE REQUIREMENTS OF AISC STEEL MANUAL 9TH EDITION. THE MAXIMUM EDGE DISTANCE FROM BOLT CENTER UNLESS OTHERWISE SPECIFIED SHALL BE 12 TIMES THICKNESS OF THE PLATE BUT NOT TO EXCEED 150mm.
 - MINIMUM PITCH: ON CENTER SPACING OF BOLTS UNLESS OTHERWISE SPECIFIED SHALL NOT BE LESS THAN 3 TIMES THE NOMINAL DIAMETER.
 - TOLERANCES: SOME VARIATIONS EXPECTED IN THE FINISH OVERALL DIMENSIONS OF FRAMES SHALL NOT EXCEED THE ROLLING TOLERANCES FOR CROSS - SECTIONAL DIMENSIONS, CAMBER AND SWEEP PERMITTED UNDER ASTM SPECIFICATION A36.
 - CAMBERING: ALL HORIZONTAL MEMBERS MORE THAN 12m IN LENGTH SHALL BE PRE-CAMBERED WITH A MINIMUM SPAN OF SPAN/360 UNLESS SPECIFIED OTHERWISE IN THE PLAN. LOCAL APPLICATION OF HEAT OR MECHANICAL MEANS MAY BE USED TO INTRODUCE OR CORRECT CAMBER OR CURVATURE THE TEMPERATURE OF HEATED AREAS AS MEASURED BY APPROVED METHODS SHALL NOT EXCEED 590°C FOR A514 STEEL NOR 645°C FOR OTHER STEELS.
- D. ERECTION:**
- BRACING: THE FRAME OF STEEL STRUCTURE SKELETON SHALL BE CARRIED UP TRUE AND PLUMB, WITHIN THE LIMITS DEFINED IN SECTION 7(h) OF THE AISC CODE OF STANDARD PRACTICE. TEMPORARY BRACING SHALL BE PROVIDED TO RESIST ALL LOADS INCLUDING ERECTION EQUIPMENT.
 - ALIGNMENT: NO RIVETTING, PERMANENT BOLTING OR WELDING SHALL BE DONE UNTIL STRUCTURE HAS BEEN PROPERLY ALIGNED.
 - SAGRODS AND CROSS BRACINGS SHALL BE INSTALLED AND TIGHTENED BEFORE INSTALLATION OF ROOFING OR WALL CLADDING.
 - PROVIDE VERTICAL STIFFENERS WITH THICKNESS EQUAL TO WEB THICKNESS FOR ALL BEAMS AT 1000mm ON CENTER SPACING EACH FACE.
- E. PAINTING AND SURFACE PREPARATION:**
- STEEL TO BE USED FOR ERECTION OF THIS STRUCTURE SHALL BE PAINTED AND ITS SURFACE PREPARED IN COMPLIANCE WITH THE SPECIFICATIONS.
- G. SUBMITTALS:**
- PREPARATION SPECIFICATION BEFORE PROCEEDING WITH WORK.
 - CONTRACTOR TO VERIFY WITH REPRESENTATIVES PAINTING AND SURFACE
 - THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS INCLUDING CONNECTION DETAILS SUBJECT TO APPROVAL OF THE STRUCTURAL ENGINEER.

PREQUALIFIED WELDED JOINTS

FILLET WELDS

Base metal less than 1/4 thick Base metal 1/4 or more in thickness

SINGLE V-GROOVE WELD

SINGLE BEVEL-GROOVE WELD BUTT JOINT

SINGLE BEVEL-GROOVE WELD

SINGLE BEVEL-GROOVE WELD BUTT JOINT

DOUBLE BEVEL - GROOVE WELD BUTT JOINT

WELD SIZE

MATERIAL THICKNESS OF THINNER PART JOINED (mm)	TYP. LEG SIZE	REMARKS
6.7	5	
8.9	6	
10.11	8	
12	10	
12-14.6	12	
16-19.20	14	
20 to 30	16	
30 to 40	18	
40 to 50	24	

WELDED JOINT SYMBOLS

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STRUCTURAL DESIGN CRITERIA 10

- STRUCTURAL STEEL:**
- A. MATERIALS:**
- STRUCTURAL STEEL - STEEL TO BE USED FOR FABRICATION AND ERECTION OF THIS STRUCTURE SHALL COMPLY WITH ALL THE PERTINENT PROVISIONS OF AISC SPECIFICATION.
 - FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDING 1989 - 9TH EDITION.
 - STEEL SHAPES: WIDE FLANGE, ANGLES, CHANNELS, PLATES SHALL BE ASTM 36. BUILTUP MEMBERS SHALL BE ASTM 36
 - BOLTS: ALL BOLTS, NUTS AND WASHERS SHALL CONFORM TO A325 UNLESS OTHERWISE INDICATED.
 - ANCHOR BOLTS SHALL LIKEWISE BE OF EQUAL STRENGTH AS A325 BOLTS OF THE SAME SIZE. ANCHOR BOLTS SHALL LIKEWISE BE OF EQUAL STRENGTH AS A325 BOLTS OF THE SAME SIZE.
 - WELD CODE D1-1 LATEST REVISION FOR SHIELDED METAL ARC WELDING PROCESSES. ELECTRODES SHALL BE IN CONFORMANCE WITH AISC STRUCTURAL WELD EDITION. SUBMERGED ARC WELDING PROCESS MAY BE USED AT THE OPTION OF FABRICATOR UPON THE APPROVAL OF ENGINEER.
- B. QUALITY CONTROL:**
- REFER TO SPECIFICATIONS FOR QUALITY CONTROL TESTING REQUIREMENTS.
 - STEEL SHAPES: EVERY BATCH OF STRUCTURAL STEEL SHAPE FOR FABRICATION SHALL HAVE THE MANUFACTURER'S MILL CERTIFICATE SHOWING THEIR CHEMICAL AND PHYSICAL PROPERTIES. OWNER EXERCISES THE RIGHT TO UNDERTAKE DESTRUCTIVE OR NON-DESTRUCTIVE TESTING OF SAMPLES FROM MATERIALS USED FOR THE PROJECT.
 - WELD FINISH: ALL WELDS SHALL BE FREE FROM UNDERCUTS, PINHOLES AND CRACKS. NONE-DESTRUCTIVE ALL WELDS SHALL BE FREE FROM UNDERCUTS, PINHOLES AND CRACKS. NON-DESTRUCTIVE TESTING SHALL BE CONDUCTED AT WELDS DEEMED NOT IN CONFORMITY WITH THE SPECIFICATION AND SHALL BE AT THE CONTRACTOR'S ACCOUNT.
 - ALL TESTING PROCEDURES MUST BE DONE WITH THE PRESENCE OF THE QUALIFIED INSPECTOR AND OR WITH ALL TESTING PROCEDURES MUST BE DONE WITH THE PRESENCE OF THE QUALIFIED INSPECTOR AND OR WITH THE DESIGNER.

STRUCTURAL STEEL NOTES 2 11

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 ARCHITECTS ENGINEERS CONSULTANTS

IN JOINT VENTURE WITH

ENRIQUE O. OLANAN & ASSOCIATES, CO.
 ARCHITECTS ENGINEERS CONSULTANTS

SUITE 305
 XAVIERVILLE SQUARE
 CONDOMINIUM
 NO. 38 XAVIERVILLE
 AVENUE, LORVAL HEIGHTS,
 QUEZON CITY, 1108
 TEL. NOS: 426 7009;
 426 30044
 FAX NOS: 927 0698;
 426 7214

ENGINEER:

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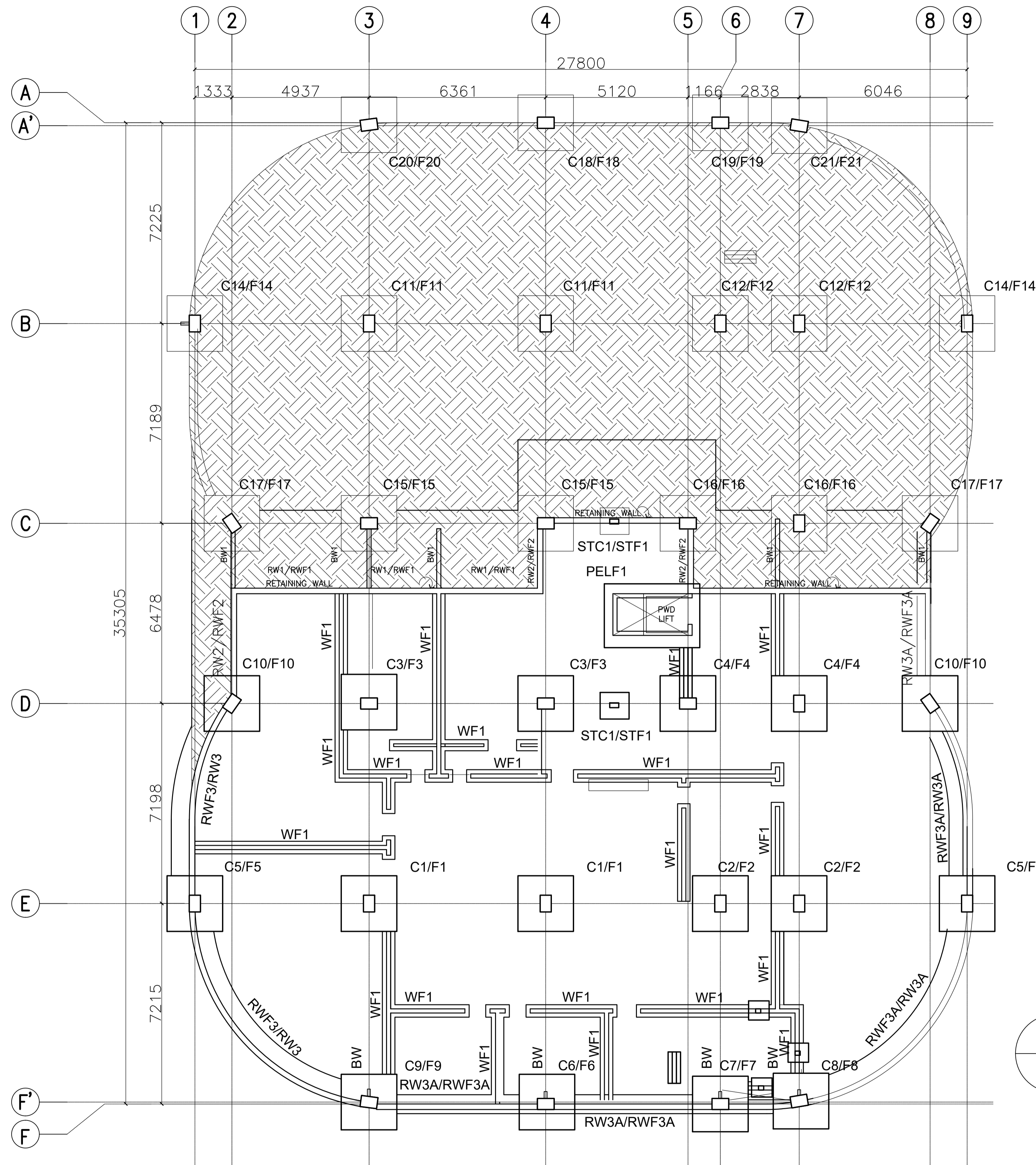
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ACADEMIC BUILDING II
FOUNDATION PLAN
 SCALE: 1:100

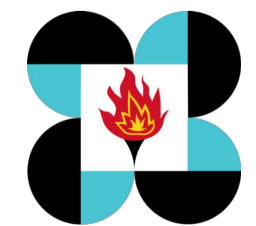
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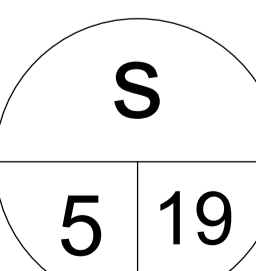
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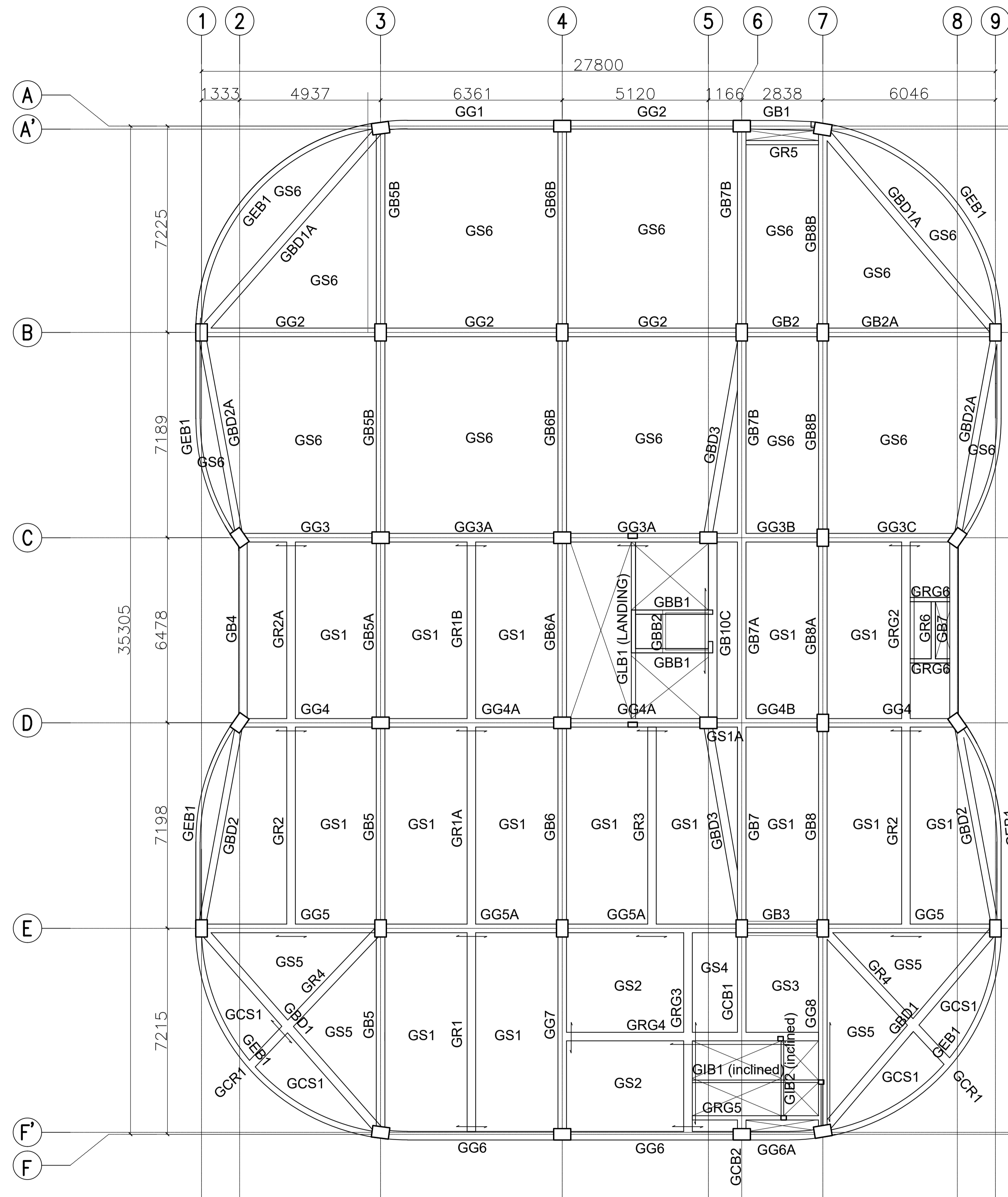
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ACADEMIC BUILDING II
GROUND FLOOR FRAMING PLAN
 SCALE: 1:100

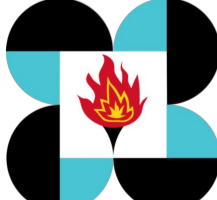
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