

GENERAL NOTES:

- A. GENERAL**
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS SPECIFIED.
 2. ALL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE SPECIFICATIONS.
 3. ALL DIMENSIONS SHALL TAKE PRECEDENCE OVER THE SCALE SHOWN ON PLANS, SECTIONS, AND DETAILS.
 4. THE CONTRACTOR SHALL VERIFY ALL ACTUAL DIMENSIONS AND CONDITIONS AT THE SITE PRIOR TO CONSTRUCTION.
 5. THE CONTRACTOR SHALL SUBMIT WORKING / SHOP DRAWINGS FOR ANY PROPOSED CHANGES TO SUIT ACTUAL FIELD CONDITIONS WHICH ARE SUBJECT FOR THE APPROVAL OF THE CONSULTANT.
 6. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SAFETY MEASURES AT THE SITE TO PROTECT LIVES, PROPERTIES, EXISTING STRUCTURES AND ENVIRONMENT.
 7. NO STRUCTURE SHALL BE CONSTRUCTED UNTIL ALL PREPARATIONS HAS BEEN APPROVED BY THE CONSULTANT.
- B. CONCRETE**
1. MINIMUM COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS PERIOD: $f_c = 28 \text{ MPa}$
 2. CONCRETE COVER TO STRIPS & TIES = 40MM
 3. ALL DEPOSITED CONCRETE SHALL BE COMPACTED USING VIBRATORS.
 4. BEFORE CONCRETE IS POURED, CHECK WITH ALL TRADES TO ENSURE PROPER PLACEMENT OF ALL OPENINGS, STEVES, CURBS, CONDUITS, ETC. RELATIVE TO THE WORK.
 5. WHEN CONCRETE WILL BE EXPOSED TO EXTERNAL SOURCES OF CHLORIDES IN SERVICES, SUCH AS BEING SALTS, BRACKISH WATER, SEAWATER OR SPRAY FROM THESE SOURCES, CONCRETE MUST BE PROPORTIONED TO SATISFY THE SPECIAL EXPOSURE REQUIREMENTS OF ACI 318-14.
 6. ALL CONCRETE SHALL BE KEPT MOST FOR A MINIMUM OF 7 CONSECUTIVE DAYS IMMEDIATELY AFTER POURING BY THE USE OF WET BURLAP.

REINFORCING STEEL:

1. UNLESS OTHERWISE SPECIFIED ON PLANS, ALL REINFORCING BARS SHALL BE ORDERED WITH A MINIMUM YIELD STRENGTH, $f_y = 414 \text{ MPa}$ (60000 PSI) FOR #12 AND ABOVE AND $f_y = 275 \text{ MPa}$ (40000 PSI) FOR #10 AND BELOW.
2. ALL REINFORCING BARS SHALL BE CLEANED OF RUST, GREASE OR OTHER MATERIALS WHICH TEND TO IMPAIR BOND.
3. ALL REINFORCING BARS SHALL BE ACCURATELY AND SECURELY PLACED BEFORE POURING CONCRETE OR APPLYING MORTAR OR GROUT.
4. LAPPED SPLICES SHALL BE STAGGERED WHERE POSSIBLE.
5. UNLESS INDICATED OTHERWISE, SPLACING OF REINFORCEMENT SHALL BE IN ACCORDANCE WITH ACI-318-95.

LAP SPLICES IN TENSION FOR BEAMS, COLUMNS AND WALLS (MM)

BAR DIA. (MM)	f_y (MPa)	f_y (KSI)	$f_c = 21 \text{ MPa}$ (3000 PSI)		$f_c = 28-35 \text{ MPa}$ (4000-5000 PSI)	
			TOP	OTHERS	TOP	OTHERS
10	275	40	300	300	300	300
12	275	40	300	300	300	300
12	414	60	525	400	450	350
16	414	80	775	600	675	525
20	414	100	1075	825	925	725
25	414	125	1375	1075	1175	925
28	414	150	1600	1250	1350	1050
32	414	175	1900	1500	1600	1250
36	414	200	2200	1750	1850	1400

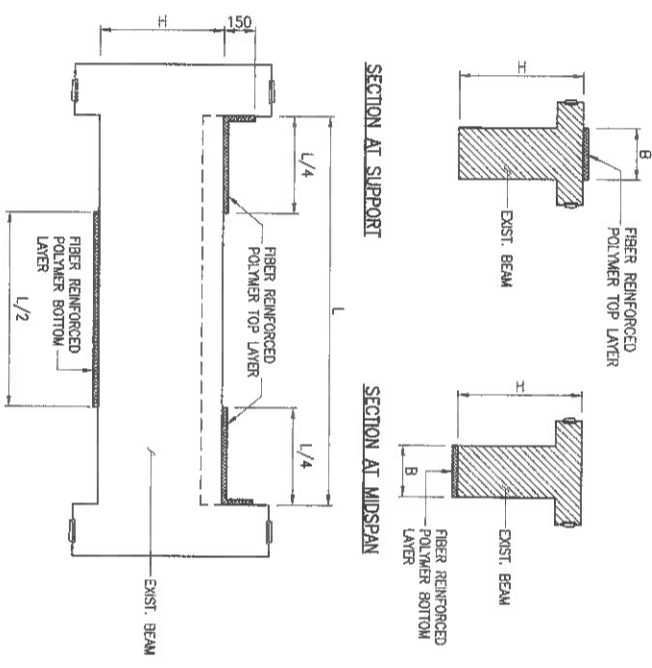
ANCHORAGE LENGTH TABLE

BAR DIA. (MM)	ANCHORAGE LENGTH (m)	STANDARD HOOK (m)			COLUMN/WALL FACE	ANCHORAGE LENGTH (m)
		90°	180°	135°		
10	0.50	0.15	0.13	0.10		
12	0.50	0.20	0.15	0.12		
16	0.60	0.25	0.18	0.14		
20	0.80	0.30	0.20	0.20		
25	0.88	0.40	0.28	0.26		
28	0.86	0.48	0.38	0.36		
32	1.12	0.56	0.43	0.41		
36	1.43	0.61	0.48	0.46		

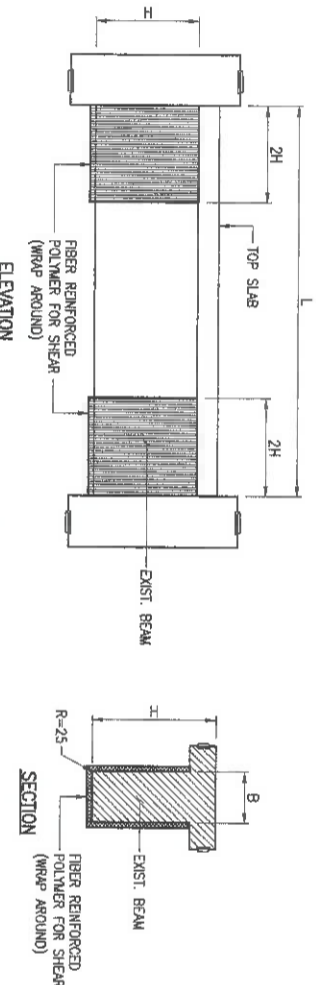
- NOTES:**
1. ACI SECTION 12.4 STATES THAT DEVELOPMENT LENGTH OF INDIVIDUAL BARS W/ IN A BUNDLE, IN TENSION OR COMPRESSION, SHALL BE THAT FOR THE INDIVIDUAL BAR, INCREASED 20% FOR THREE BAR BUNDLE, AND 33% FOR FOUR BAR BUNDLE.
 2. FOR COLUMNS, AT ANY LEVEL NO MORE THAN ALTERNATE BARS SHOULD BE SPLICED. NOT MORE THAN 33% OF THE BARS SHALL BE SPLICED W/ IN THE REQUIRED LAP LENGTH. MIN. DISTANCE BETWEEN TWO ADJACENT BAR SPLICES SHALL BE 60MM. TOP BARS ARE HORIZONTAL BARS W/ MORE THAN 300MM DEPTH OF CONCRETE CAST BELOW THE REINFORCEMENT.
 3. TOP BARS ARE HORIZONTAL BARS W/ MORE THAN 300MM DEPTH OF CONCRETE CAST BELOW THE REINFORCEMENT.
 4. AS MUCH AS POSSIBLE, SPLICES SUBJECTED TO TENSILE STRESSES ARE DISCOURAGED. THESE SHOULD BE AVOIDED OR PROVIDED W/ STANDARD HOOKS.

D. FRP RETROFITTING

1. USE FIBER REINFORCED POLYMER (FRP) USING CARBON WITH A MINIMUM LAMINATE THICKNESS OF 1.0MM PER LAYER AND MINIMUM TENSILE STRENGTH IN PRIMARY FIBER DIRECTION OF 1000 MPa. CONCRETE REPAIR SHALL BE PERFORMED FOR ALL MEMBERS WITH DEFECTIVE CONCRETE PRIOR TO APPLICATION OF FRP.
 2. CONTRACTOR TO SUBMIT CONSTRUCTION METHODOLOGY AND TECHNICAL SPECIFICATIONS FOR APPROVAL PRIOR TO IMPLEMENTATION.
 3. CONTRACTOR TO PERFORM MATERIAL TESTING PRIOR TO FINAL ACCEPTANCE OF WORK.
 4. THE CONTRACTOR SHALL CAREFULLY EXAMINE, COMPARE AND VERIFY THE DATA FURNISHED BY THE DRAWINGS AND SPECIFICATIONS. ANY QUERIES AS TO THE MEANING OF THE DRAWINGS OR OF THE SPECIFICATIONS OR OF ANY ERRORS/OMISSIONS AFTER ITS DISCOVERY, ANY WORK INVOLVING SUCH DISCREPANCIES SHALL BE DONE AT THE CONTRACTOR'S RISK.
 5. CONTRACTOR TO VERIFY ALL DIMENSIONS AND LENGTHS OF MEMBERS.
 6. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
 7. THIS DRAWING IS TO BE READ SIMULTANEOUSLY WITH ALL RELEVANT ENGINEER'S AND ARCHITECT'S DRAWINGS AND WITH ALL RELEVANT SPECIFICATIONS.
- B. FOR FRP RETROFITTING:**
- A. CONCRETE SURFACE PREPARATION AND CLEANLINESS PRIOR TO APPLICATION OF FRP WRAP SHALL BE IN ACCORDANCE TO MANUFACTURER'S REQUIREMENTS.
 - B. BEAMS SHALL BE RETROFITTED USING SIKAMRAP 600C FOR FLEXURE (TOP & BOTTOM) & SIKAMRAP 300C FOR SHEAR. SEE PLANS FOR THE NUMBER OF LAYERS.



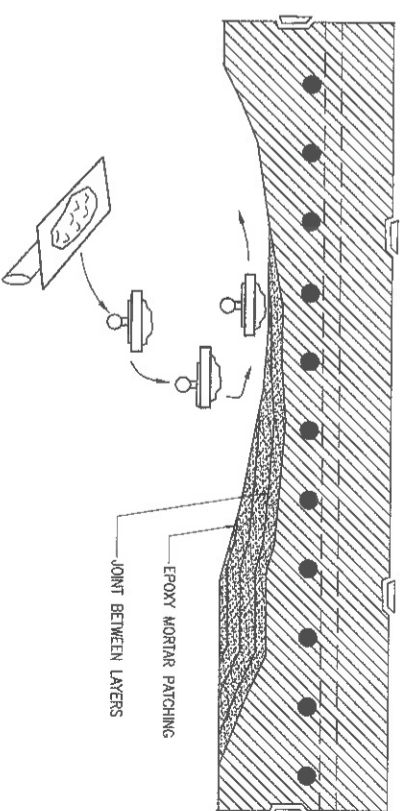
2 TYP. BEAM RETROFITTING DETAIL FOR FLEXURE
SCALE: S-001 NTS



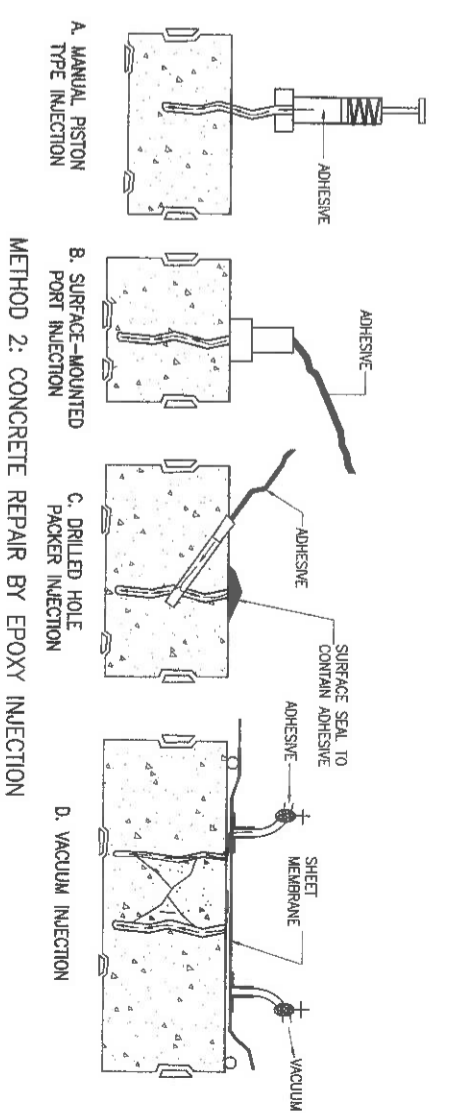
3 TYP. BEAM RETROFITTING DETAIL FOR SHEAR
SCALE: S-001 NTS

E. CONCRETE REPAIR

- METHOD 1: CONCRETE REPAIR BY EPOXY PATCHING**
1. IDENTIFY SPALLED AREAS.
 2. CHIPPING-REMOVE LOOSE CONCRETE AND CHIP TILL GOOD CONCRETE IS REACHED.
 3. PREPARE STRUCTURAL EPOXY 316 PUTTY AND APPLY TO SPALLED AREA. LET EPOXY PUTTY CURE.
 4. GRIND PROTRUDING EPOXY PUTTY FLUSH TO CONCRETE SURFACE.
- METHOD 2: CONCRETE AND MASONRY REPAIR BY EPOXY INJECTION**
1. IDENTIFY CRACKS.
 2. V-CUT ALONG CRACKS AND DRILL 1/2" DIA HOLES TO A DEPTH OF APPROXIMATELY HALF THE STRUCTURE'S DIMENSION.
 3. CLEANING - REMOVE LOOSE CONCRETE AND CONCRETE POWDERS.
 4. INSTALL 1/4" COPPER TUBINGS INTO THE DRILLED HOLES.
 5. APPLICATION OF STRUCTURAL EPOXY 316 PUTTY ON V-CUTS AND AROUND PERIPHERIES OF COPPER TUBINGS, AND ALLOW PUTTY TO CURE.
 6. PRESSURE INJECT STRUCTURAL EPOXY 316 PUTTY THRU THE COPPER TUBES TO FILL CRACKS AND HONEYCOMBS (REPEAT #4 UNTIL ALL CRACKS AND HONEYCOMBS ARE FILLED WITH STRUCTURAL EPOXY 316 AND ALLOW EPOXY TO CURE).
 7. GRIND PROTRUDING COPPER TUBES AND PUTTY FLUSH TO CONCRETE SURFACE.
 8. APPLY REQUIRED FINISHES (IF NECESSARY).



METHOD 1: CONCRETE REPAIR BY EPOXY PATCHING



4 TYPICAL CONCRETE REPAIR DETAILS
SCALE: S-001 NTS

- NOTES:**
1. UNLESS NOTED OTHERWISE, REPAIR METHOD(S) TO BE ADOPTED SHALL BE AS FOLLOWS:
SPALLING OF CONCRETE/POOR WORKMANSHIP/ - METHOD 1
FACING CRACKS - METHOD 2
CRACKING OF CONCRETE/ HONEYCOMB - METHOD 2
 2. METHODS TO ADOPTED MAY VARY AS PER ENGINEER'S INSTRUCTION UPON CONFIRMATION OF ACTUAL CONDITION DURING REPAIR.
 3. THE CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS SHOWING MAPPING PLAN FOR EACH METHOD USED IN THE REPAIR WORKS.

RETROFITTING

a.c.o.n.g. CONSULTING INC.
Engineering + Management Certified
ISO 9001:2015
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15th Floor, 115th Street, Singapore, Singapore
15th Floor, 115th Street, Singapore, Singapore

OWNER: **SOCIAL SECURITY SYSTEM (SSS)**
EAST AVENUE, DUMAY, QUEZON CITY

PROJECT TITLE/LOCATION: **PROPOSED STRUCTURAL RETROFITTING OF SSS TARLAC BUILDING**
HEA, MARILYN ST. MARLA, TARLAC

DESIGNED BY: **ALDEN C. ONG, M. Eng., MSEP**
CHECKED BY: **ENGR. JAMES M. JARAP**

DATE: **JANUARY 03, 2020**

SCALE: **AS SHOWN**

PROJECT NO.: **SO-G-18-018**

REVISIONS:


NO.	REVISIONS	DATE	CHK.	DATE
1	AS SHOWN	JUNE 2020		

SUMMARY OF BEAMS AND GIRDERS RETROFITTING

Floor Level	Mark	Section		ENIS	Flange	MIDSPAN	ENIS	Shear	MIDSPAN	Grid
		Width	Depth							
Ground Floor	G1	400	600	1 Layer, 400mm width Sika Wrap 600C @ Top	-	-	1 Layer, U-Wrap of Sika Wrap 300C	-	-	BW/A1 -4 & A3 -4
	G2	400	600	2 Layer, 400mm width Sika Wrap 600C @ Top w/ 1 Layer 250mm Lateral	2 Layer, 400mm width Sika Wrap 600C @ Top w/ 1 Layer 250mm Lateral	-	1 Layer, U-Wrap of Sika Wrap 300C	-	-	BW/A3 -1C & A2 -1C
	G2A	400	600	2 Layer, 400mm width Sika Wrap 600C @ Top w/ 1 Layer 250mm Lateral	2 Layer, 400mm width Sika Wrap 600C @ Top w/ 1 Layer 250mm Lateral	-	1 Layer, U-Wrap of Sika Wrap 300C	-	-	BW/A3 -3A & A2 -3A
	G2A	400	600	2 Layer, 400mm width Sika Wrap 600C @ Top w/ 1 Layer 250mm Lateral	2 Layer, 400mm width Sika Wrap 600C @ Top w/ 1 Layer 250mm Lateral	-	1 Layer, U-Wrap of Sika Wrap 300C	-	-	BW/A2 -3A & A1 -3A
	G2A	400	600	2 Layer, 400mm width Sika Wrap 600C @ Top w/ 1 Layer 250mm Lateral	2 Layer, 400mm width Sika Wrap 600C @ Top w/ 1 Layer 250mm Lateral	-	1 Layer, U-Wrap of Sika Wrap 300C	-	-	BW/A2 -1C & A1 -1C
	G3A	400	600	1 Layer, 400mm width Sika Wrap 600C @ Top	-	-	1 Layer, U-Wrap of Sika Wrap 300C	-	-	BW/A1 -1B & A3 -1B
	G4	400	600	2 Layer, 400mm width Sika Wrap 600C @ Top w/ 1 Layer 250mm Lateral	-	-	1 Layer, U-Wrap of Sika Wrap 300C	-	-	BW/A1 -1A & A3 -1A
	G5	500	700	2 Layer, 400mm width Sika Wrap 600C @ Top w/ 1 Layer 250mm Lateral	-	-	1 Layer, U-Wrap of Sika Wrap 300C	-	-	BW/A2 -1B & A4 -1B
	G6	400	600	1 Layer, 400mm width Sika Wrap 600C @ Top	-	-	1 Layer, U-Wrap of Sika Wrap 300C	-	-	BW/A3 -1A & A3 -1B
	G7	400	600	2 Layer, 400mm width Sika Wrap 600C @ Top w/ 1 Layer 250mm Lateral	2 Layer, 400mm width Sika Wrap 600C @ Top w/ 1 Layer 250mm Lateral	-	1 Layer, U-Wrap of Sika Wrap 300C	-	-	BW/A3 -1B & A3 -1C
	G8	500	700	2 Layer, 400mm width Sika Wrap 600C @ Top	-	1 Layer, 400mm width Sika Wrap 600C @ Bottom	1 Layer, U-Wrap of Sika Wrap 300C	-	-	BW/A2 -1C & A2 -3A
	G8A	500	700	2 Layer, 400mm width Sika Wrap 600C @ Top w/ 1 Layer 250mm Lateral	2 Layer, 400mm width Sika Wrap 600C @ Top w/ 1 Layer 250mm Lateral	-	1 Layer, U-Wrap of Sika Wrap 300C	-	-	BW/A3 -3A & A3 -4
	G8B	500	700	2 Layer, 400mm width Sika Wrap 600C @ Top w/ 1 Layer 250mm Lateral	2 Layer, 400mm width Sika Wrap 600C @ Top w/ 1 Layer 250mm Lateral	-	1 Layer, U-Wrap of Sika Wrap 300C	-	-	BW/A1 -1C & A1 -3A
	G8C	500	700	2 Layer, 400mm width Sika Wrap 600C @ Top w/ 1 Layer 250mm Lateral	2 Layer, 400mm width Sika Wrap 600C @ Top w/ 1 Layer 250mm Lateral	-	1 Layer, U-Wrap of Sika Wrap 300C	-	-	BW/A1 -1B & A1 -1C
	G8D	500	700	2 Layer, 400mm width Sika Wrap 600C @ Top w/ 1 Layer 250mm Lateral	2 Layer, 400mm width Sika Wrap 600C @ Top w/ 1 Layer 250mm Lateral	-	1 Layer, U-Wrap of Sika Wrap 300C	-	-	BW/A1 -3A & A1 -4
	Upper Floor	G1	400	600	1 Layer, 400mm width Sika Wrap 600C @ Top	-	-	1 Layer, U-Wrap of Sika Wrap 300C	-	-
G2		400	600	2 Layer, 400mm width Sika Wrap 600C @ Top	-	-	1 Layer, U-Wrap of Sika Wrap 300C	-	-	BW/A1 -4 & A3 -4
G2		400	600	2 Layer, 400mm width Sika Wrap 600C @ Top	-	-	1 Layer, U-Wrap of Sika Wrap 300C	-	-	BW/A3 -1C & A2 -1C
G2A		400	600	2 Layer, 400mm width Sika Wrap 600C @ Top w/ 1 Layer 250mm Lateral	2 Layer, 400mm width Sika Wrap 600C @ Top w/ 1 Layer 250mm Lateral	-	1 Layer, U-Wrap of Sika Wrap 300C	-	-	BW/A3 -3A & A2 -3A
G2A		400	600	2 Layer, 400mm width Sika Wrap 600C @ Top w/ 1 Layer 250mm Lateral	2 Layer, 400mm width Sika Wrap 600C @ Top w/ 1 Layer 250mm Lateral	-	1 Layer, U-Wrap of Sika Wrap 300C	-	-	BW/A2 -1C & A1 -1C
G4		400	600	2 Layer, 400mm width Sika Wrap 600C @ Top	-	-	1 Layer, U-Wrap of Sika Wrap 300C	-	-	BW/A2 -3A & A1 -3A
G5A		500	700	2 Layer, 400mm width Sika Wrap 600C @ Top	-	-	1 Layer, U-Wrap of Sika Wrap 300C	-	-	BW/A4 -A1 & A4 -1B
G6		400	600	1 Layer, 400mm width Sika Wrap 600C @ Top	-	-	1 Layer, U-Wrap of Sika Wrap 300C	-	-	BW/A3 -1B & A3 -1C
G7		400	600	1 Layer, 400mm width Sika Wrap 600C @ Top	-	-	1 Layer, U-Wrap of Sika Wrap 300C	-	-	BW/A2 -1C & A2 -3A
G8		500	700	1 Layer, 400mm width Sika Wrap 600C @ Top	-	-	1 Layer, U-Wrap of Sika Wrap 300C	-	-	BW/A3 -3A & A3 -4
G8C		500	700	1 Layer, 400mm width Sika Wrap 600C @ Top	-	-	1 Layer, U-Wrap of Sika Wrap 300C	-	-	BW/A1 -3A & A1 -4
G8D		500	700	1 Layer, 400mm width Sika Wrap 600C @ Top	-	-	1 Layer, U-Wrap of Sika Wrap 300C	-	-	A1 -1A
G8E		500	700	1 Layer, 400mm width Sika Wrap 600C @ Top	-	-	1 Layer, U-Wrap of Sika Wrap 300C	-	-	A1 -1B
G8F		500	700	1 Layer, 400mm width Sika Wrap 600C @ Top	-	-	1 Layer, U-Wrap of Sika Wrap 300C	-	-	A1 -4
G8G		500	700	1 Layer, 400mm width Sika Wrap 600C @ Top	-	-	1 Layer, U-Wrap of Sika Wrap 300C	-	-	BW/A3 -1C & A2 -1C
Roof Deck		G1	500	800	1 Layer, 400mm width Sika Wrap 600C @ Top	-	-	1 Layer, U-Wrap of Sika Wrap 300C	-	-
	G1	500	800	1 Layer, 400mm width Sika Wrap 600C @ Top	-	-	1 Layer, U-Wrap of Sika Wrap 300C	-	-	A3 -4
	G1	500	800	1 Layer, 400mm width Sika Wrap 600C @ Top	-	-	1 Layer, U-Wrap of Sika Wrap 300C	-	-	A1 -4
	G2	400	600	1 Layer, 400mm width Sika Wrap 600C @ Top	-	-	1 Layer, U-Wrap of Sika Wrap 300C	-	-	A3 -3A
	G2	400	600	1 Layer, 400mm width Sika Wrap 600C @ Top	-	-	1 Layer, U-Wrap of Sika Wrap 300C	-	-	A3 -1C
	G2A	400	600	1 Layer, 400mm width Sika Wrap 600C @ Top	-	-	1 Layer, U-Wrap of Sika Wrap 300C	-	-	A4 -1A
	G2A	400	600	1 Layer, 400mm width Sika Wrap 600C @ Top	-	-	1 Layer, U-Wrap of Sika Wrap 300C	-	-	A4 -1B
	G3	400	600	1 Layer, 400mm width Sika Wrap 600C @ Top	-	-	1 Layer, U-Wrap of Sika Wrap 300C	-	-	A1 -1C
	G3	400	600	1 Layer, 400mm width Sika Wrap 600C @ Top	-	-	1 Layer, U-Wrap of Sika Wrap 300C	-	-	A1 -1A
	G3A	400	600	1 Layer, 400mm width Sika Wrap 600C @ Top	-	-	1 Layer, U-Wrap of Sika Wrap 300C	-	-	A1 -1B
	G3A	400	600	1 Layer, 400mm width Sika Wrap 600C @ Top	-	-	1 Layer, U-Wrap of Sika Wrap 300C	-	-	A1 -4
	G3B	400	600	1 Layer, 400mm width Sika Wrap 600C @ Top	-	-	1 Layer, U-Wrap of Sika Wrap 300C	-	-	A3 -4
	G3C	300	600	1 Layer, 400mm width Sika Wrap 600C @ Top	-	-	1 Layer, U-Wrap of Sika Wrap 300C	-	-	A1 -1B
	G3C	300	600	1 Layer, 400mm width Sika Wrap 600C @ Top	-	-	1 Layer, U-Wrap of Sika Wrap 300C	-	-	A1 -1B
	G3C	300	600	1 Layer, 400mm width Sika Wrap 600C @ Top	-	-	1 Layer, U-Wrap of Sika Wrap 300C	-	-	A3 -1B

RETROFITTING



CERTIFIED BY: 
ALDO V. CALDERON
 ENGINEER

OWNER: **SOCIAL SECURITY SYSTEM (SSS)**
 EAST AVENUE, DUMAM, QUEZON CITY

CLIENT: **SOCIAL SECURITY SYSTEM (SSS)**
 APPROVED BY: _____

PROJECT TITLE/LOCATION: **PROPOSED STRUCTURAL RETROFITTING OF SSS TARIAC BUILDING**
 HER. MARILOS ST. TARIAC, TARIAC

SHEET CONTENTS: **SUMMARY OF BEAMS AND GIRDERS RETROFITTING**

REVISIONS AND COMMENTS: **REVISIONS AND COMMENTS AND CONTRACT AS INSTRUMENTS PER SERVICE AGREEMENT. THE CONSULTANT'S RESPONSIBILITY IS LIMITED TO THE DESIGN AND CONSTRUCTION OF THE RETROFITTING WORK. THE CONSULTANT IS NOT RESPONSIBLE FOR THE STRUCTURAL ANALYSIS AND DESIGN OF THE EXISTING STRUCTURE. THE CONSULTANT'S WORK IS BASED ON THE INFORMATION PROVIDED BY THE CLIENT AND THE CONSULTANT HAS NOT CONDUCTED A VISUAL INSPECTION OF THE EXISTING STRUCTURE. THE CONSULTANT'S WORK IS BASED ON THE INFORMATION PROVIDED BY THE CLIENT AND THE CONSULTANT HAS NOT CONDUCTED A VISUAL INSPECTION OF THE EXISTING STRUCTURE.**

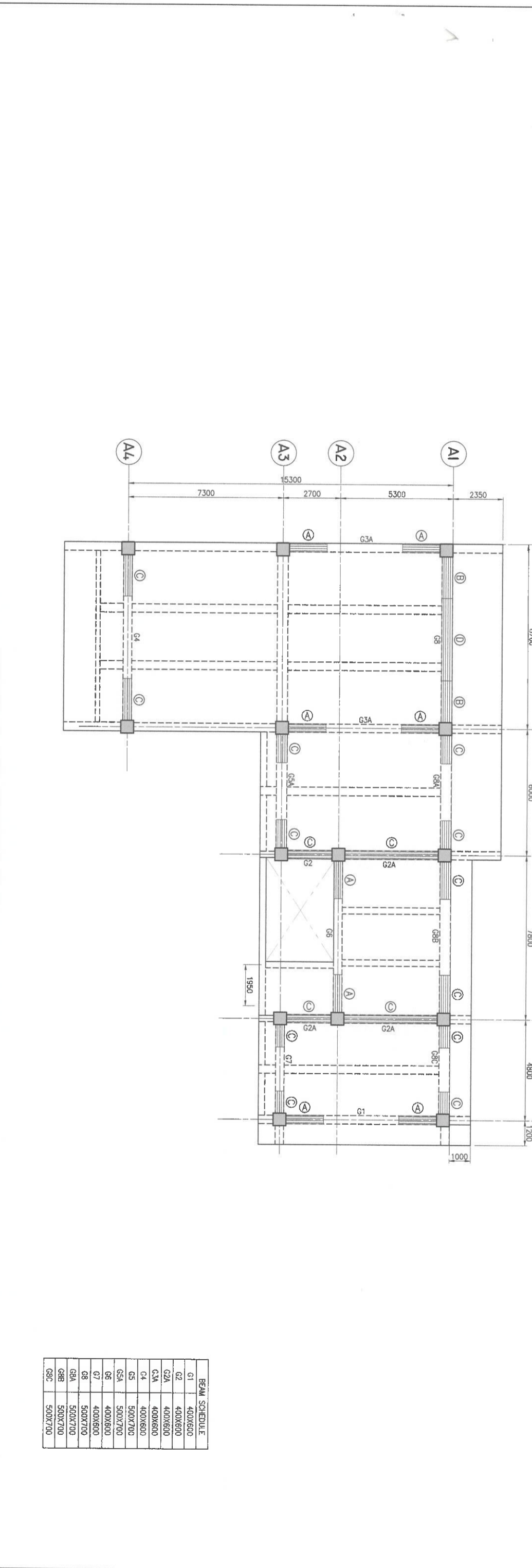
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 DATE: **JUNE 2020**
 DATE: **JUNE 2020**

NO. _____
 REVISIONS _____
 CHK _____
 DATE _____
 PAPER SIZE: **20X30**
 SCALE: _____
 SHEET NO.: **S-002**
 PROJECT NO.: **SO-G-18-018**

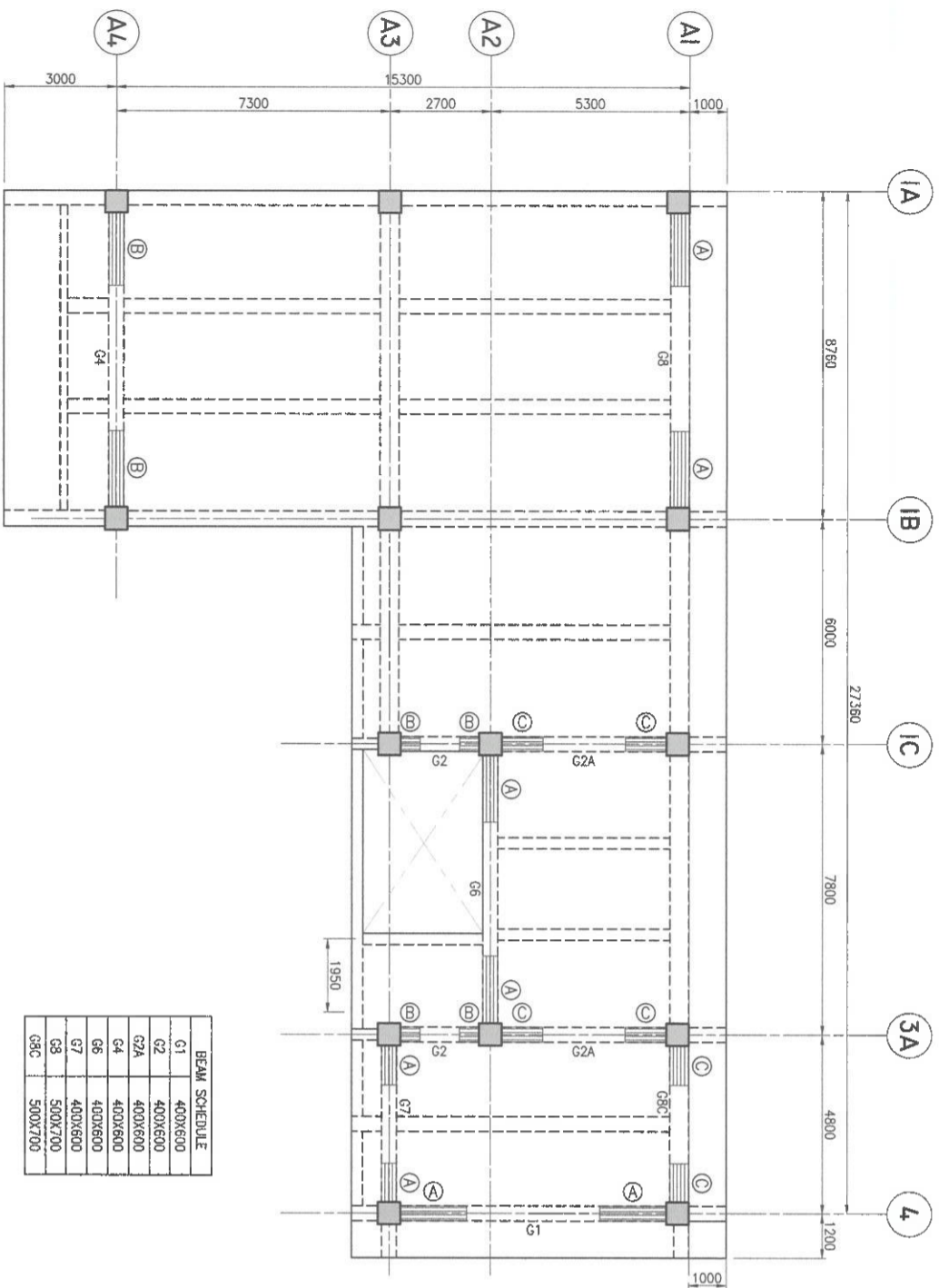
DATE	NO.	REVISIONS	CHK.	DATE	PAPER SIZE	SHEET NO.
JUNE 2020	APP	DESIGNED			20X30	S-003
JUNE 2020	JMP	APPROVED			SCALE	PROJECT NO.
JUNE 2020	AD				AS SHOWN	SO-G-18-018

GROUND FLOOR FRAMING PLAN SHOWING BEAMS FOR FLEXURE ENHANCEMENT

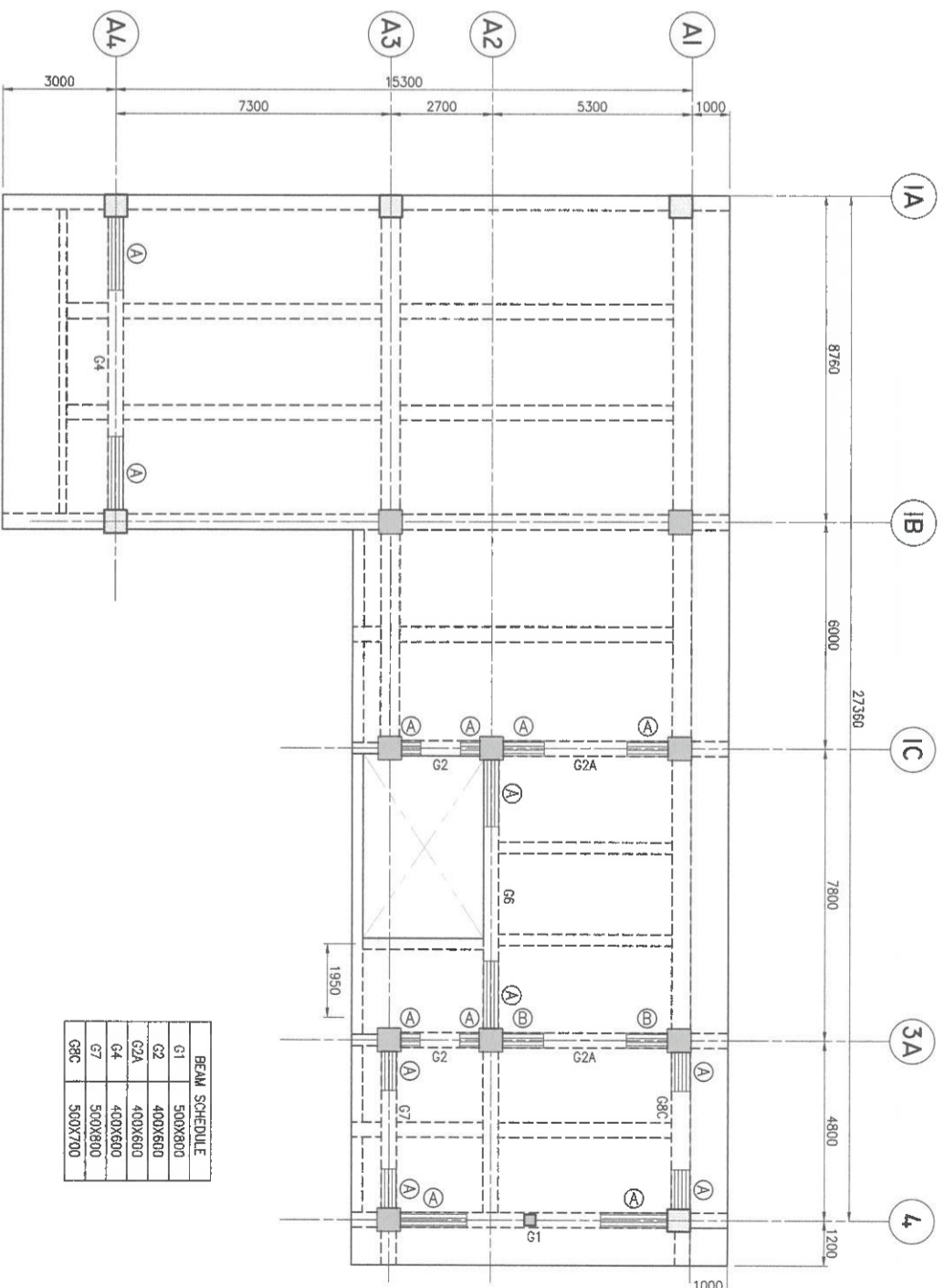
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BEAM SCHEDULE	SIZE	WRAP
G1	400X600	
G2	400X600	
G2A	400X600	
G3A	400X600	
G4	400X600	
G5	500X700	
G5A	500X700	
G6	400X600	
G7	400X600	
G8	500X700	
G8A	500X700	
G8B	500X700	
G8C	500X700	



BEAM SCHEDULE	
G1	400X600
G2	400X600
G2A	400X600
G4	400X600
G6	400X600
G7	400X600
G8	500X700
G8C	500X700



BEAM SCHEDULE	
G1	500X800
G2	400X600
G2A	400X600
G4	400X600
G7	500X800
G8C	500X700

1
UPPER FLOOR FRAMING PLAN
SHOWING BEAMS FOR FLEXURE ENHANCEMENT
SCALE: 1:100M

2
ROOF DECK FRAMING PLAN
SHOWING BEAMS FOR FLEXURE ENHANCEMENT
SCALE: 1:100M

- LEGEND :
- Ⓐ - 1 LAYER, 400MM WIDTH, Sika WRAP 600C @ TOP
 - Ⓑ - 2 LAYERS, 400MM WIDTH, Sika WRAP 600C @ TOP
 - Ⓒ - 2 LAYERS, 400MM WIDTH, Sika WRAP 600C @ TOP
w/ 1 LAYER 250MM LAYER

RETROFITTING

ENGINEERING + MANAGEMENT
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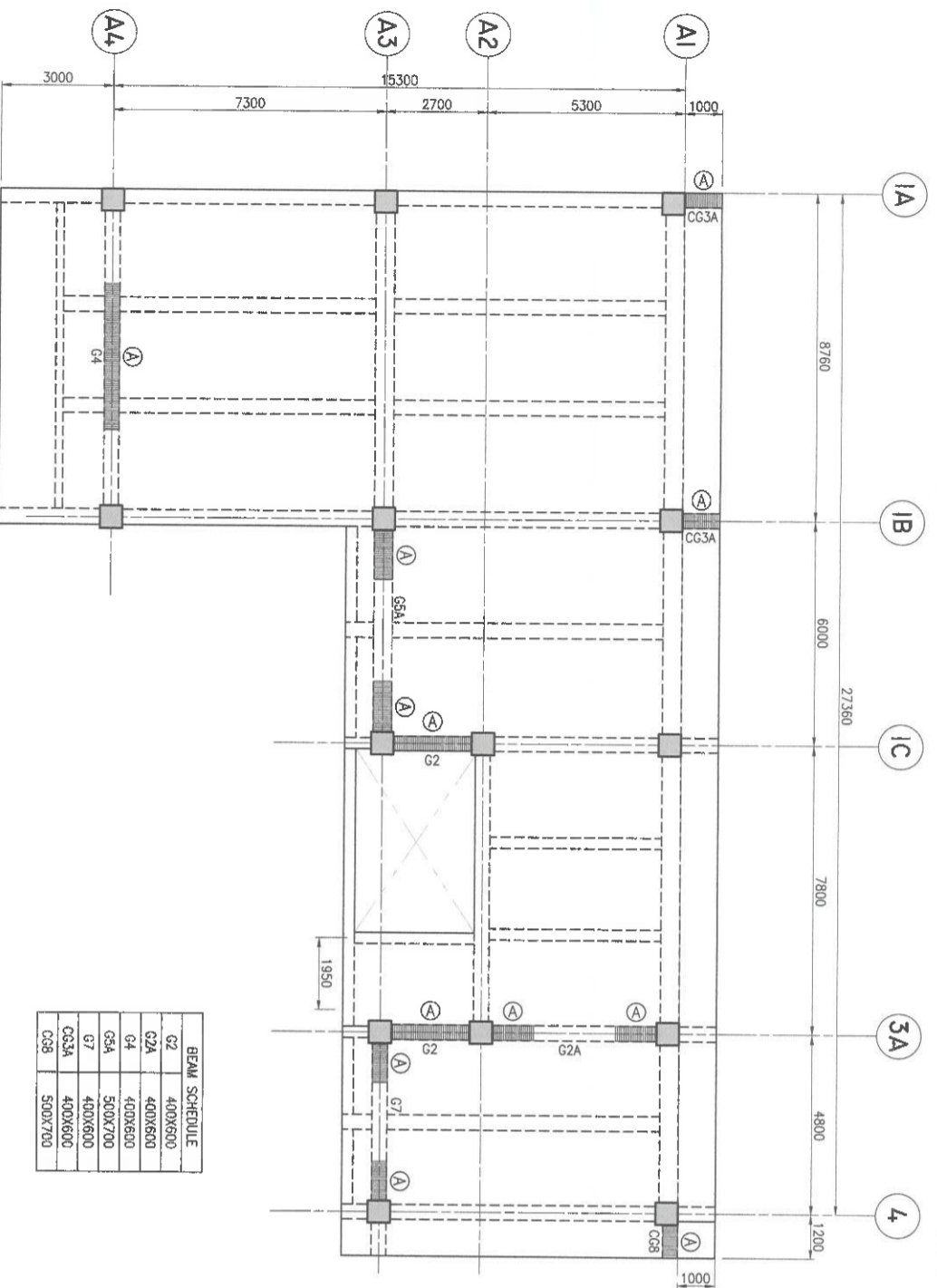
CERTIFIED BY:

REGISTERED PROFESSIONAL ENGINEER

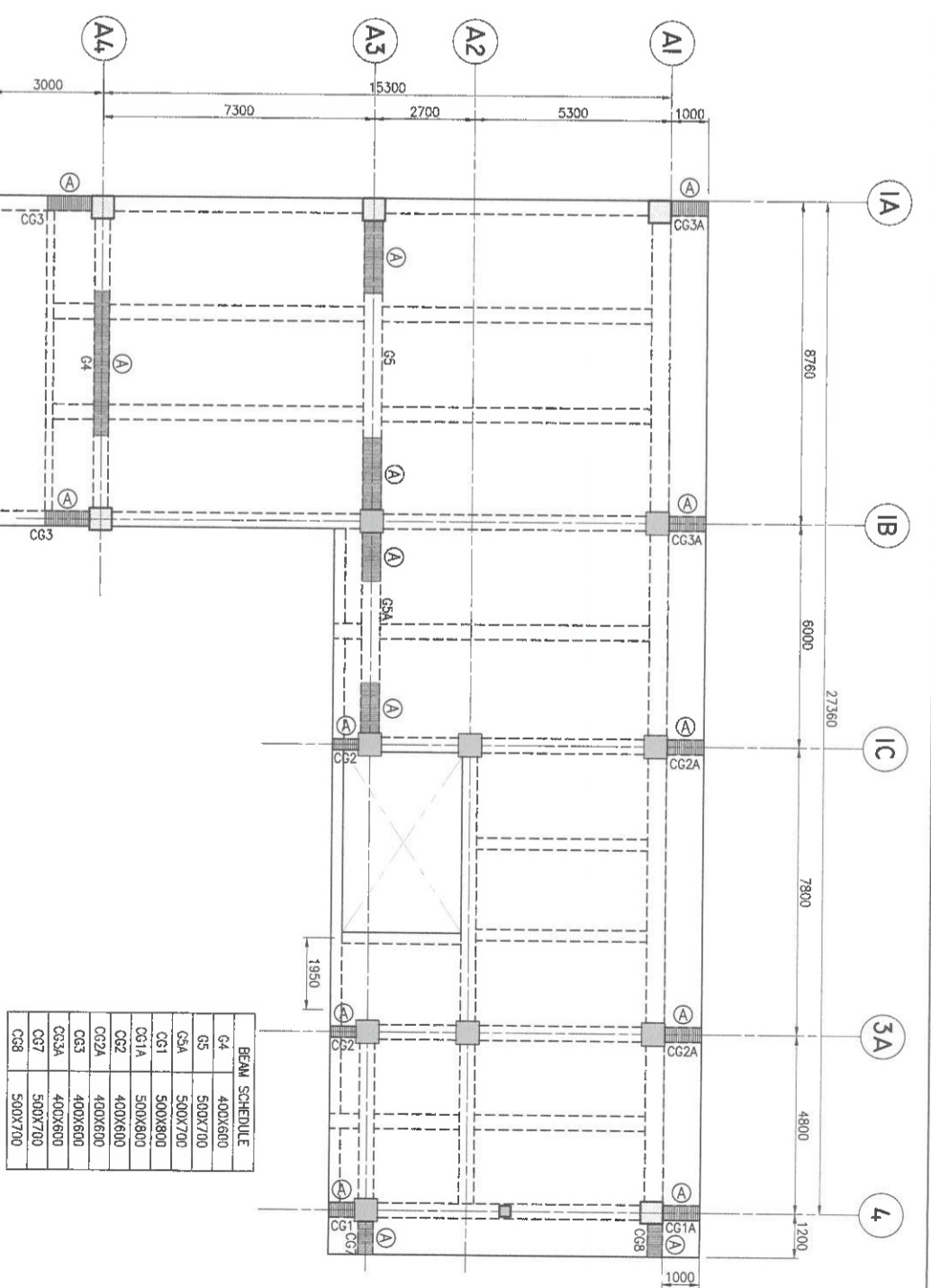
REQ. NO.: 88251	OWNER: SOCIAL SECURITY SYSTEM (SSS)	CLIENT: APPROVED BY:	PROJECT TITLE/LOCATION: PROPOSED STRUCTURAL RETROFITTING OF SSS TARLAC BUILDING
TIN NO.: 168-956-786	EAST AVENUE, BULAKAN, QUEZON CITY		
DATE: JANUARY 03, 2020			
PLACE: MAKATI CITY			

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DESIGNED BY: JMBP	DATE: JUNE 2020		
APPROVED BY: ADO	DATE: JUNE 2020		

PAPER SIZE: 20X30	SHEET NO.: S-005
SCALE: AS SHOWN	PROJECT NO.: SO-G-18-018



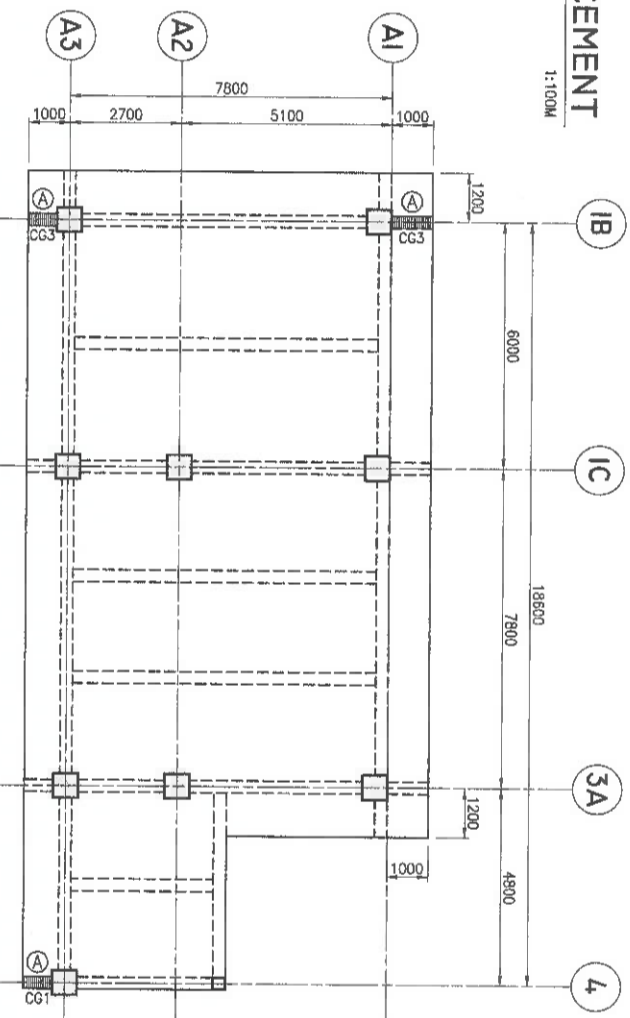
BEAM SCHEDULE	
G2	400X600
G2A	400X600
G4	400X600
G4A	500X700
G7	400X600
CG3A	400X600
CG8	500X700



BEAM SCHEDULE	
G4	400X600
G5	500X700
G6A	500X700
G8	500X800
CG1A	500X800
CG2	400X600
CG2A	400X600
CG3	400X600
CG3A	400X600
CG7	500X700
CG8	500X700

1 UPPER FLOOR FRAMING PLAN
SHOWING BEAMS FOR SHEAR ENHANCEMENT
SCALE 1:100M

2 ROOF DECK FRAMING PLAN
SHOWING BEAMS FOR SHEAR ENHANCEMENT
SCALE 1:100M



BEAM SCHEDULE	
CG1	300X600
CG3	300X600

3 ROOF FRAMING PLAN
SHOWING BEAMS FOR SHEAR ENHANCEMENT
SCALE 1:100M

LEGEND :
① - 1 LAYER, U WRAP OF SIKU WRAP 300C

RETROFITTING

CERTIFIED BY
ALDEN C. ONG, M. Eng., RSE
ENGINEER

REG. NO.: 68251
TR. NO.: 186-950-786
PR. NO.: 811742
DATE: JANUARY 03, 2020
PLACE: ILOILO CITY

OWNER
SOCIAL SECURITY SYSTEM (SSS)
EAST AVENUE, DILIMAN, QUEZON CITY

CLIENT
APPROVED BY:
PROJECT TITLE/LOCATION
PROPOSED STRUCTURAL RETROFITTING OF SSS TARLAC BUILDING
HR. MARCOS ST. TARLAC, TARLAC

SHEET CONTENTS
UPPER FLOOR FRAMING PLAN
ROOF DECK AND ROOF FRAMING PLAN
SHOWING BEAMS FOR SHEAR ENHANCEMENT

P.A. 9268 SEC. 33
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DATE	NO.	REVISIONS	CHK	DATE	PAPER SIZE	SHEET NO.
JUNE 2020					20X30	S-006
JUNE 2020					SCALE	PROJECT NO.
JUNE 2020					AS SHOWN	SO-G-18-018