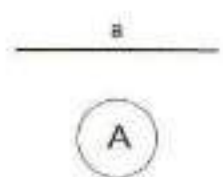
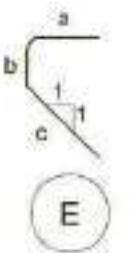
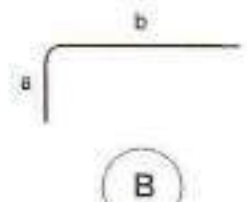
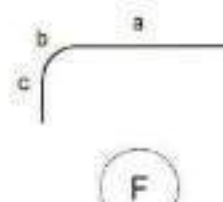
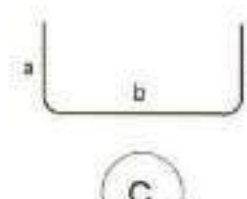
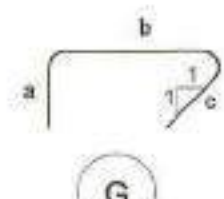
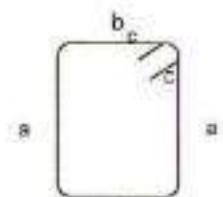
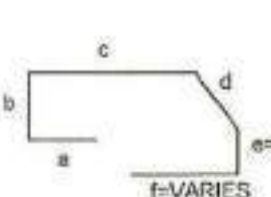
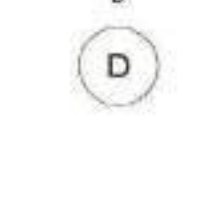


REINFORCEMENT SCHEDULE AND ESTIMATED QUANTITIES FOR ONE(1) ABUTMENT

BAR BENDING DIAGRAM	STRUCTURE COMPONENT	CONCRETE VOLUME (m ³)	LOCATION	MARK	SIZE (mm Ø)	QTY.	SPACING (mm)	SHAPE	REINFORCEMENT						LENGTH PER BAR (m)	TOTAL LAP LENGTH (m)	TOTAL (L) PER BAR (m)	TOTAL LENGTH (m)	UNIT WEIGHT (kg/m)	TOTAL WEIGHT (kg)	REMARKS
									BAR DIMENSIONS (mm)												
									a	b	c	d	e	f							
 	ABUTMENT	23.73	COPING/ BACKWALL	1	32	20	137	(C)	580	7,020	-	-	-	-	8.180	-	8.18	163.80	6.313	1,033	LAP LENGTH IS COMPUTED BASED ON 12M COMMERCIAL LENGTH OF RSB
				1a	32	6	158	(C)	580	7,020	-	-	-	-	8.180	-	8.18	49.08	6.313	310	
				2	36	8	196	(C)	580	7,020	-	-	-	-	8.180	-	8.18	65.44	7.991	523	
				3	36	6	AS SHOWN	(C)	580	7,020	-	-	-	-	8.180	-	8.18	49.08	7.991	392	
				4	32	24	206	(A)	1,036	-	-	-	-	-	1.036	-	1.04	24.86	6.313	157	
				5	32	16	206	(A)	628	-	-	-	-	-	0.628	-	0.63	10.05	6.313	63	
				6	36	16	200	(C)	480	2946 AVE.	-	-	-	-	3.906 AVE.	-	3.91	62.50	7.991	499	
				7	16	36	113	(C)	2504 AVE.	1,300	-	-	-	-	6.308 AVE.	-	6.31	227.09	1.579	359	
				7a	16	20	113	(B)	1,300	2,503 AVE.	-	-	-	-	3.803 AVE.	-	3.80	76.05	1.579	120	
				8	16	47	100	(D)	1,000	1,300	195	-	-	-	4.990	-	4.99	234.53	1.579	370	
				9	16	25	200	(A)	800	-	-	-	-	-	0.800	-	0.80	20.00	1.579	32	
10	16	2	AS SHOWN	(A)	4,900	-	-	-	-	-	4.900	-	4.90	9.80	1.579	15					
11	16	25	200	(E)	900	130	600	-	-	-	1.630	-	1.63	40.75	1.579	64					
SUB-TOTAL																	3,937.00				
GRADE 40																	960.00				
GRADE 60																	2,977.00				
 	7.44	WINGWALL	12	32	22	294	(B)	620	4,006	-	-	-	-	4.626	-	4.63	101.77	6.313	642		
			13	32	22	294	(B)	600	3,855	-	-	-	-	4.455	-	4.46	98.01	6.313	619		
			14	32	20	294	(B)	620	2,699	-	-	-	-	3.319	-	3.32	66.38	6.313	419		
			15	16	52	200	(C)	305 AVE.	2,974	-	-	-	-	3.584 AVE.	-	3.58	186.37	1.579	294		
			16	12	220	AS SHOWN	(G)	170	335 AVE.	170	-	-	-	0.675 AVE.	-	0.68	148.50	0.888	132		
			SUB-TOTAL																	2,106.00	
GRADE 40																	426.00				
GRADE 60																	1,680.00				
 	1.96	RAILING	17	16	4	AS SHOWN	(F)	2,640	210	1,350	-	-	-	4.200	-	4.20	16.80	1.579	27		
			18	16	16	AS SHOWN	(A)	2,790	-	-	-	-	-	2.790	-	2.79	44.64	1.579	70		
			19	16	22	250	(C)	1,500	200	-	-	-	-	3.200	-	3.20	70.40	1.579	111		
			SUB-TOTAL																	208.00	
GRADE 40																	208.00				
GRADE 60																	-				
 	1.67	SIDEWALK	20	12	10	AS SHOWN	(A)	2,883 AVE.	-	-	-	-	-	2.883 AVE.	-	2.88	28.83	0.888	26		
			21	12	6	AS SHOWN	(F)	2,481	751	193	-	-	-	3.425	-	3.43	20.55	0.888	18		
			22	16	24	250	(H)	300	157	676	207	196	-	1.536	-	1.54	36.66	1.579	58		
			SUB-TOTAL																	102.00	
GRADE 40																	102.00				
GRADE 60																	-				
 	34.80	GRAND TOTAL																GRAND TOTAL	6,353.00		
																		GRADE 40	1,696.00		
																		GRADE 60	4,657.00		

RPCO XI
NO OBJECTION

SIGNATURE:

ENR. MARC ADRIAN C. BADDONGON

I-BUILD Component Head



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF AGRICULTURE
"PHILIPPINE RURAL DEVELOPMENT
PROJECT SCALE UP"
PROVINCE OF DAVAO DE ORO
MUNICIPALITY OF LAAK

PROJECT NO.:
SUBPROJECT TITLE:
LOCATION:

PRDP-SU-IB-R011-DDO-003-000-000-2023-FMB
REHABILITATION OF FMR FROM KILAGDING
RECENIA - KIBAGIOU ROAD,
LAAK WITH BRIDGE COMPONENT
LAAK, DAVAO DE ORO

PREPARED BY:
DOMINADOR R. ALMEDILLA
OIC DIVISION HEAD - PDD

DESIGNED BY:
ABRAHAM T. TUNA, JR.
STRUCTURAL ENGINEER
A. SEAD - 2017 - 0102914 - 353A

CHECKED & REVIEWED BY:
RODERICK M. DIGAMON
PROVINCIAL ENGINEER

RECOMMENDING APPROVAL:
ALICIA M. GRACIADAS
CO - PPMU

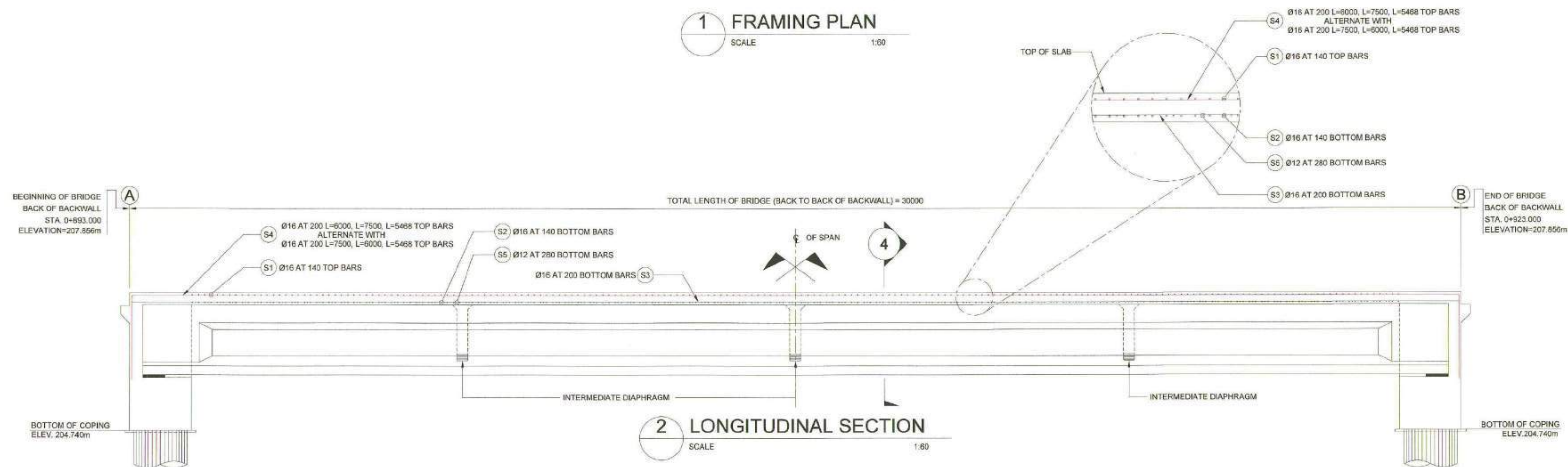
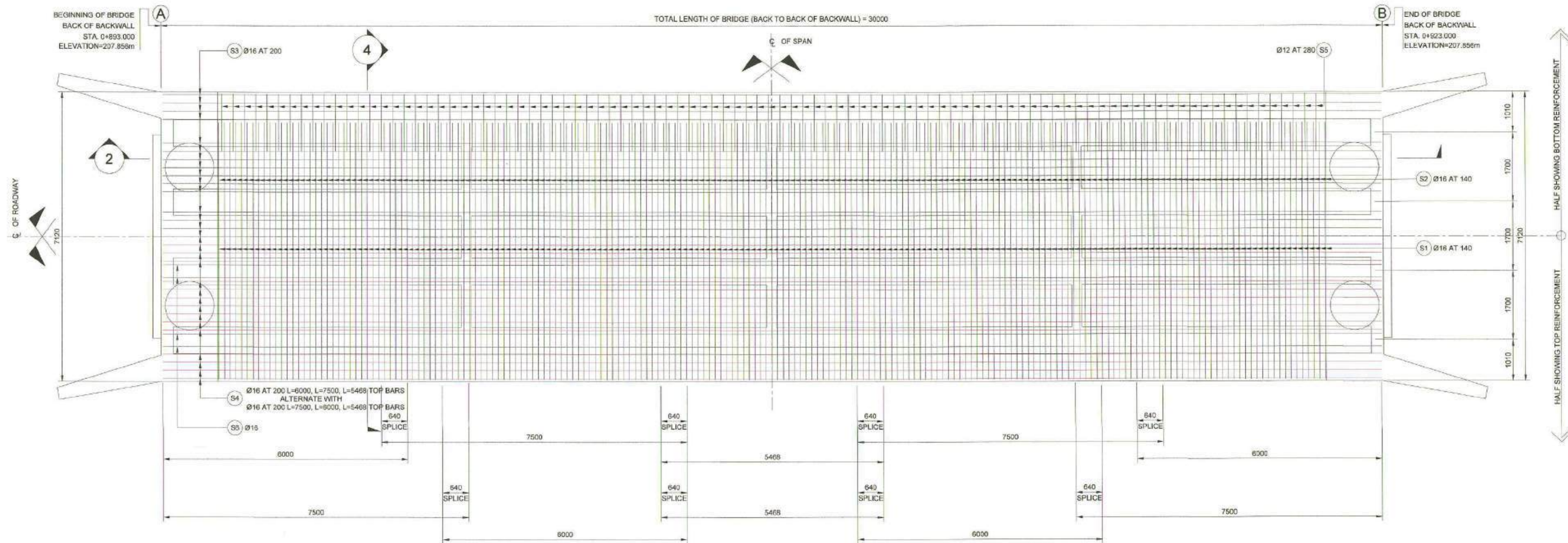
APPROVED:
DOROTHY P. MONTEJO-GONZAGA
GOVERNOR

SHEET CONTENTS:

REINFORCEMENT SCHEDULE
& ESTIMATED QUANTITIES
FOR ONE (1) ABUTMENT ONLY

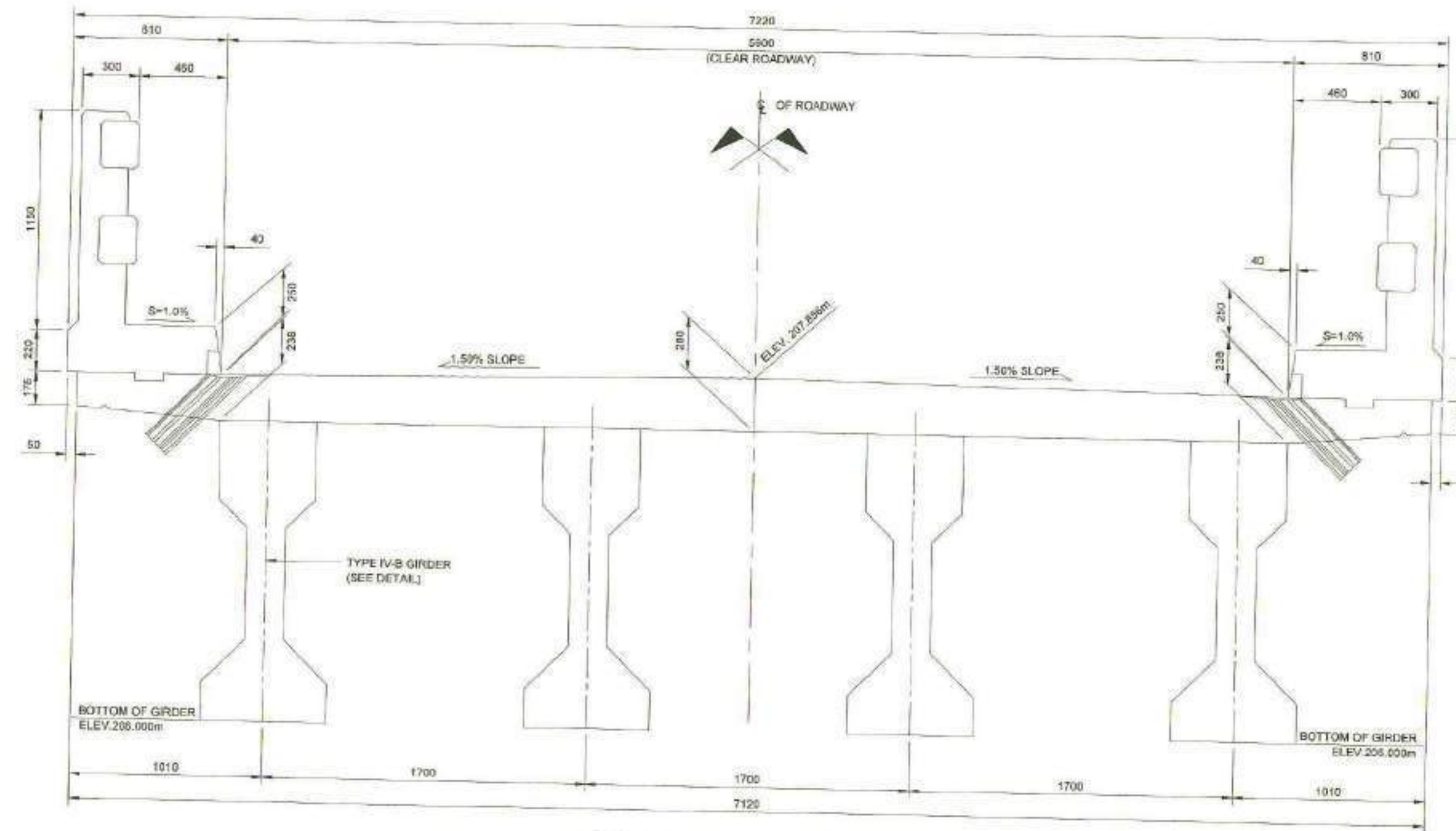
SHEET NO.

35
102

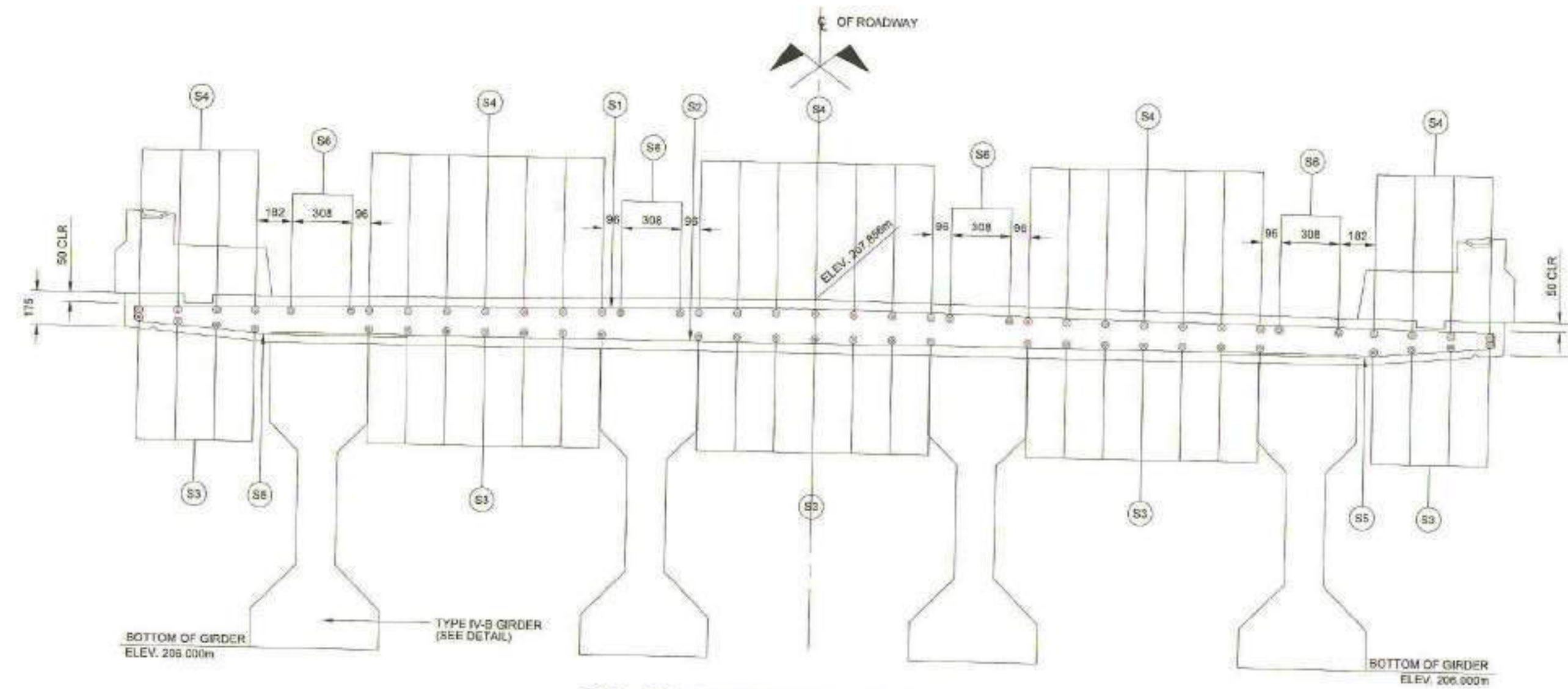


RPCO XI
NO OBJECTION
SIGNATURE: *[Signature]*
ENGR. RAYMUNDO W. DELA CRUZ
I-BUILD Component Head

	REPUBLIC OF THE PHILIPPINES DEPARTMENT OF AGRICULTURE "PHILIPPINE RURAL DEVELOPMENT PROJECT SCALE UP" PROVINCE OF DAVAO DE ORO MUNICIPALITY OF LAAK	PROJECT NO.: SUBPROJECT TITLE: LOCATION:	PRDP-SU-IB-R011-DDO-003-000-000-2023-FMB REHABILITATION OF FMR FROM KILAGDING RECENIA - KIBAGIOU ROAD, LAAK WITH BRIDGE COMPONENT LAAK, DAVAO DE ORO	PREPARED BY: <i>[Signature]</i> DOMINADOR R. ALMEDILLA OIC DIVISION HEAD - PDD	DESIGNED BY: <i>[Signature]</i> ABRAHAM T. TUNA, JR. STRUCTURAL ENGINEER A. SEAD - 2017 - 0102914 - 353A	CHECKED & REVIEWED BY: <i>[Signature]</i> RODERICK M. DIGAMON PROVINCIAL ENGINEER	RECOMMENDING APPROVAL: <i>[Signature]</i> ALICIA M. GRACIADAS CO - PPMU	APPROVED: <i>[Signature]</i> DOROTHY P. MONTEJO-GONZAGA GOVERNOR	SHEET CONTENTS: FRAMING PLAN AND SECTIONS	SHEET NO. 36 102
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3 CROSS SECTION
SCALE 1:25



4 TRANSVERSE SECTION
SCALE 1:25



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF AGRICULTURE
"PHILIPPINE RURAL DEVELOPMENT
PROJECT SCALE UP"
PROVINCE OF DAVAO DE ORO
MUNICIPALITY OF LAAK

PROJECT NO.: PRDP-SU-IB-R011-DDO-003-000-000-2023-FMB
SUBPROJECT TITLE: REHABILITATION OF FMR FROM KILAGDING
RECENIA - KIBAGIOU ROAD,
LAAK WITH BRIDGE COMPONENT
LOCATION: LAAK, DAVAO DE ORO

PREPARED BY:
DOMINADOR R. ALMEDILLA
OIC DIVISION HEAD - PDD

DESIGNED BY:
ABRAHAM T. TUNA, JR.
STRUCTURAL ENGINEER
A SEAL: 2017-0102014-252A

CHECKED & REVIEWED BY:
RODERICK M. DIGAMON
PROVINCIAL ENGINEER

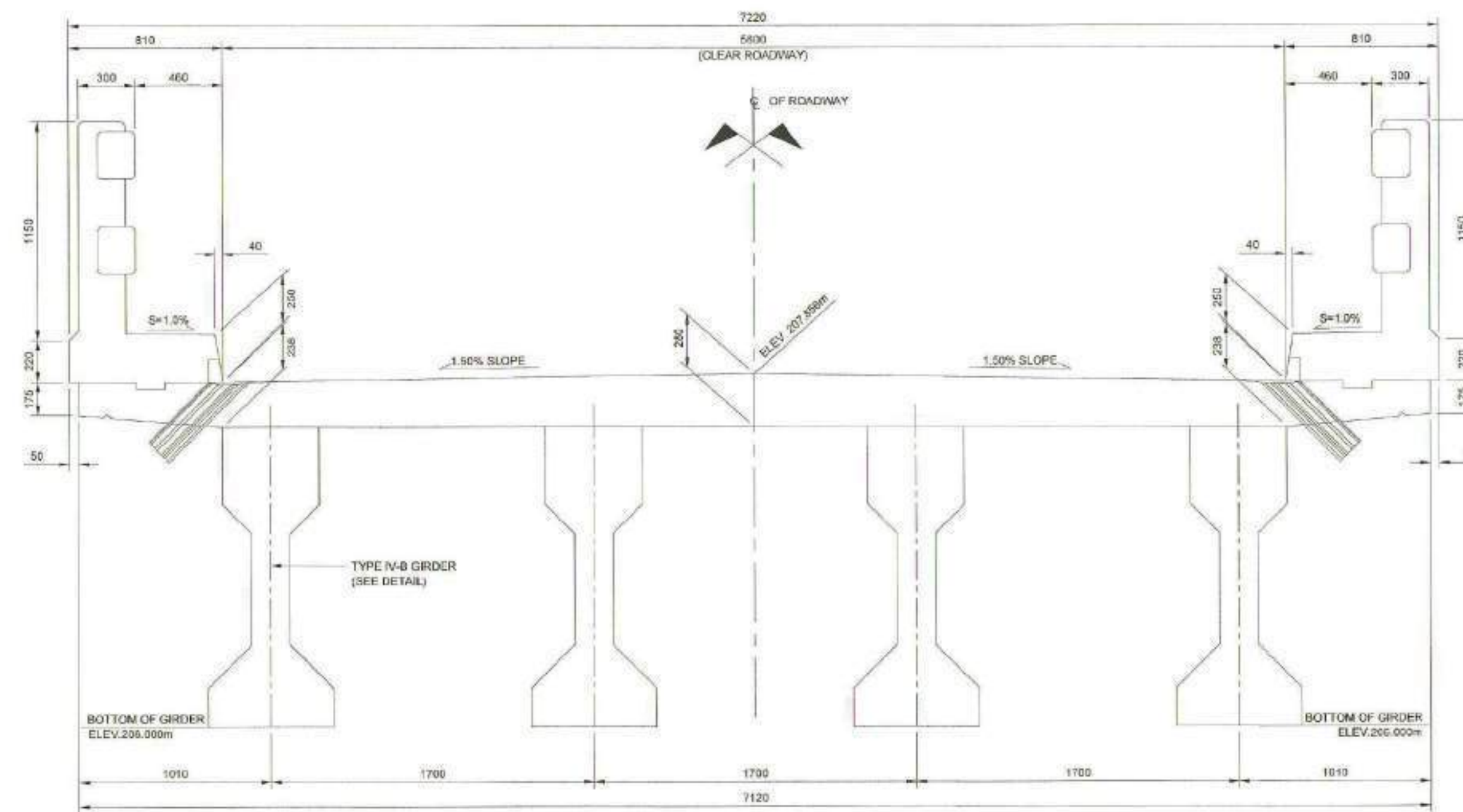
RECOMMENDING APPROVAL:
ALICIA M. GRACIADAS

APPROVED:
DOROTHY P. MONTEJO-CONZAGA

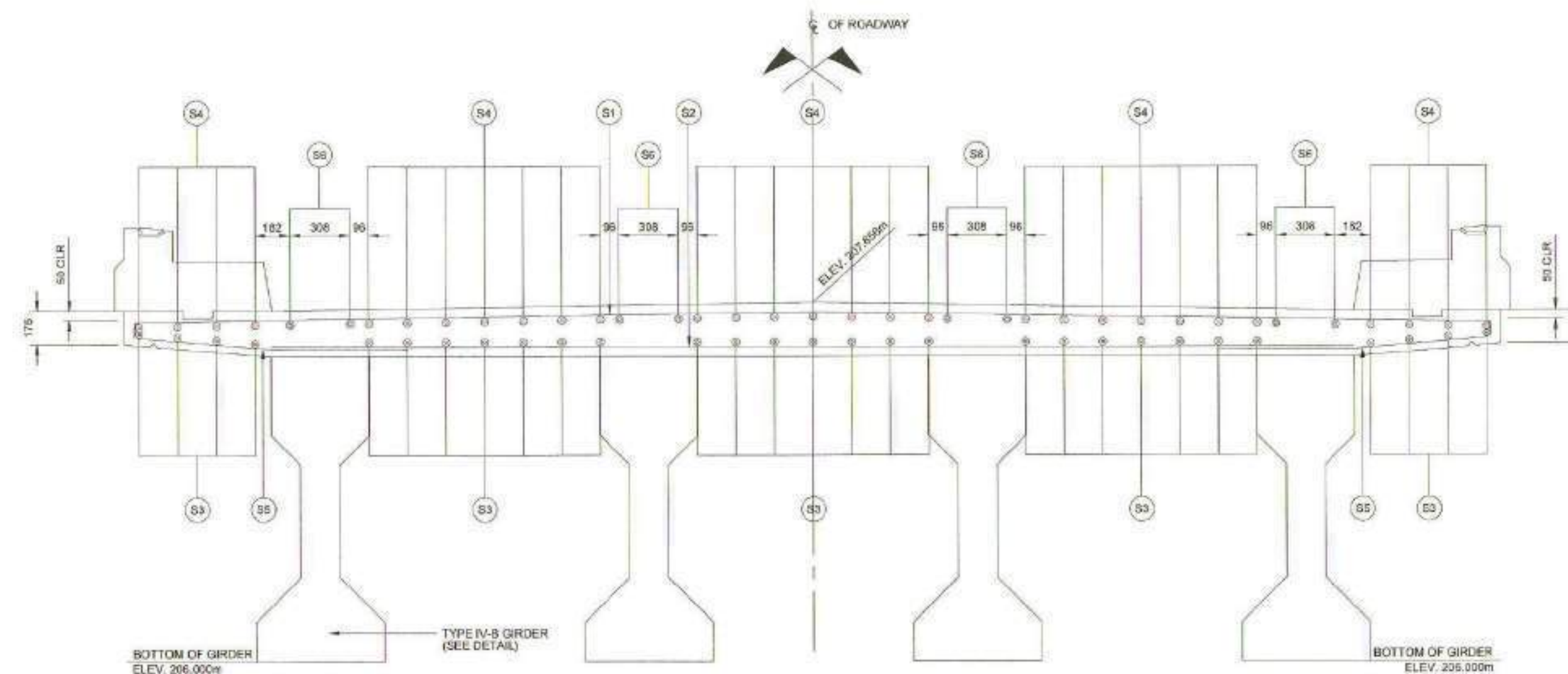
SHEET CONTENTS:
FRAMING PLAN AND SECTIONS

SHEET NO.
37

RPCO XI
NO OBJECTION
SIGNATURE:
ENGR. MARC ADRIAN C. MONTEJO
I-BUILD Component Head



3 CROSS SECTION
SCALE 1:25



4 TRANSVERSE SECTION
SCALE 1:25



	REPUBLIC OF THE PHILIPPINES DEPARTMENT OF AGRICULTURE "PHILIPPINE RURAL DEVELOPMENT PROJECT SCALE UP" PROVINCE OF DAVAO DE ORO MUNICIPALITY OF LAAK	PROJECT NO.:	PRDP-SU-IB-R011-DDO-003-000-000-2023-FMB	PREPARED BY:	DESIGNED BY:	CHECKED & REVIEWED BY:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENTS:	SHEET NO.
		SUBPROJECT TITLE:	REHABILITATION OF FMR FROM KILAGDING RECENIA - KIBAGIOW ROAD, LAAK WITH BRIDGE COMPONENT	 DOMINADOR R. ALMEDILLA OIC DIVISION HEAD - PDD	 ABRAHAM T. TUNA, JR. STRUCTURAL ENGINEER A. SEAD - 2017 - 0102914 - 353A	 RODERICK M. DIGAMON PROVINCIAL ENGINEER	 ALICIA M. GRACIADAS CO - PPMU	 DOROTHY P. MONTEGRO-GONZAGA GOVERNOR	FRAMING PLAN AND SECTIONS	37
		LOCATION:	LAAK, DAVAO DE ORO							102

REINFORCEMENT SCHEDULE AND ESTIMATED QUANTITIES FOR SUPERSTRUCTURE OF 30M SPAN

BAR BENDING DIAGRAM	STRUCTURE COMPONENT	CONCRETE VOLUME (m ³)	LOCATION	MARK	SIZE (mm Ø)	QTY.	SPACING (mm)	SHAPE	REINFORCEMENT BAR DIMENSIONS (mm)						LENGTH PER BAR (m)	TOTAL LAP LENGTH (m)	TOTAL (L) PER BAR (m)	TOTAL LENGTH (m)	UNIT WEIGHT (kg/m)	TOTAL WEIGHT (kg)	REMARKS		
									BAR DIMENSIONS (mm)														
									a	b	c	d	e	f									
	SUPERSTRUCTURE	52.50	DECK SLAB	S1	16	195	140	(H)	80	3,510	-	-	-	-	7.180	-	7.18	1,400.10	1.579	2,211	LAP LENGTH IS COMPUTED BASED ON 12M COMMERCIAL LENGTH OF RSB		
				S2	16	195	140	(A)	5,600	-	-	-	-	-	5.600	-	5.60	1,092.00	1.579	1,724			
				S3	16	29	200	(A)	29,908	-	-	-	-	-	29,908	1,280	31.19	904.45	1.579	1,428			
				S4	16	37	200	(C)	1,900	29,908	-	-	-	-	33,708	1,280	34.99	1,294.56	1.579	2,044			
				S5	12	194	280	(G)	80	711	700	-	-	-	1,491	-	1.49	289.25	0.888	257			
				S6	16	8	AS SHOWN	(C)	1,600	29,908	-	-	-	-	33,108	1,280	34.39	275.10	1.579	434			
				SUB-TOTAL																8,098.00			
				GRADE 40																8,098.00			
				GRADE 60																-			
				3.50	DIAPHRAGM	D1	28	6	AS SHOWN	(F)	2,804	2,804	-	-	-	-	5.608	-	5.61	33.65	4.833	163	
						D2	28	36	AS SHOWN	(A)	1,497	-	-	-	-	-	1.497	-	1.50	53.89	4.833	260	
						D4	12	36	300	(D)	1,273 AVE.	150	150	-	-	-	3,146 AVE.	-	3.15	113.26	0.888	101	
						SUB-TOTAL														524.00			
						GRADE 40														101.00			
						GRADE 60														423.00			
				12.21	SIDEWALK	SW1	12	120	AS SHOWN	(A)	4,747	-	-	-	-	-	4,747	-	4.75	569.64	0.888	506	
						SW2	16	288	200	(E)	157	677	400	-	-	-	1,234	-	1.23	355.39	1.579	561	
						SW3	12	192	300	(C)	157	693	-	-	-	-	1,007	-	1.01	193.34	0.888	172	
						SW4	12	192	300	(B)	250	350	-	-	-	-	0.600	-	0.60	115.20	0.888	102	
						SUB-TOTAL														1,341.00			
						GRADE 40														1,341.00			
						GRADE 60														-			
				13.87	RAILING AND POST	P1	20	192	AS SHOWN	(A)	1,800	-	-	-	-	-	1,800	-	1.80	345.60	2.466	852	
						P2	10	288	AS SHOWN	(D)	170	170	100	-	-	-	0.880	-	0.88	253.44	0.616	156	
						R1	16	96	AS SHOWN	(A)	4,767	-	-	-	-	-	4,767	-	4.77	457.63	1.579	723	
						R2	10	504	AS SHOWN	(D)	170	120	100	-	-	-	0.780	-	0.78	393.12	0.616	242	
						SUB-TOTAL														1,973.00			
						GRADE 40														1,121.00			
						GRADE 60														852.00			
				82.08	GRAND TOTAL																	GRAND TOTAL	11,936.00
																						GRADE 40	10,661.00
																						GRADE 60	1,275.00



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF AGRICULTURE
"PHILIPPINE RURAL DEVELOPMENT
PROJECT SCALE UP"
PROVINCE OF DAVAO DE ORO
MUNICIPALITY OF LAAK

PROJECT NO.:
SUBPROJECT TITLE:
LOCATION:

PRDP-SU-IB-R011-DDO-003-000-000-2023-FMB
**REHABILITATION OF FMR FROM KILAGDING
RECENIA - KIBAGIOU ROAD,
LAAK WITH BRIDGE COMPONENT**
LAAK, DAVAO DE ORO

PREPARED BY:

DOMINADOR R. ALMEDILLA
OIC DIVISION HEAD - PDD

DESIGNED BY:

ABRAHAM T. TUNA, JR.
STRUCTURAL ENGINEER
A. SEAD - 2017 - 0102914 - 353A

CHECKED & REVIEWED BY:

RODERICK M. DIGAMON
PROVINCIAL ENGINEER

RECOMMENDING APPROVAL:

ALICIA M. GRACIADAS
CO - PPMIU

APPROVED:

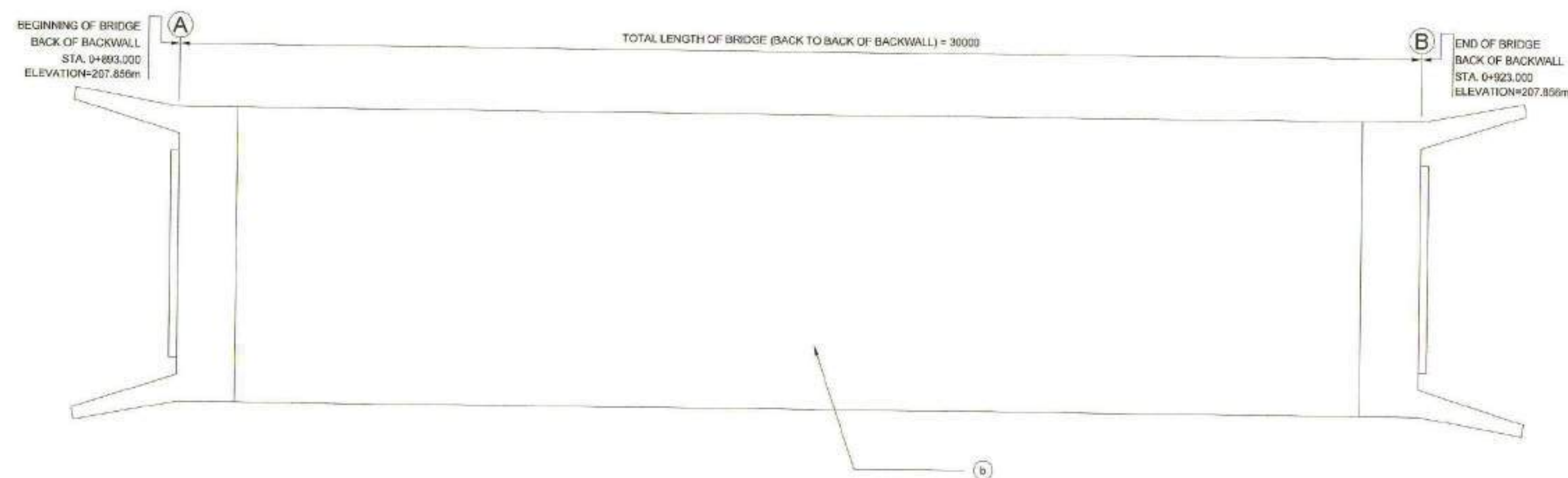
DOROTHY P. MONTEJO-GONZAGA
GOVERNOR

SHEET CONTENTS:
REINFORCEMENT SCHEDULE AND
ESTIMATED QUANTITIES FOR
SUPERSTRUCTURE OF 30M SPAN

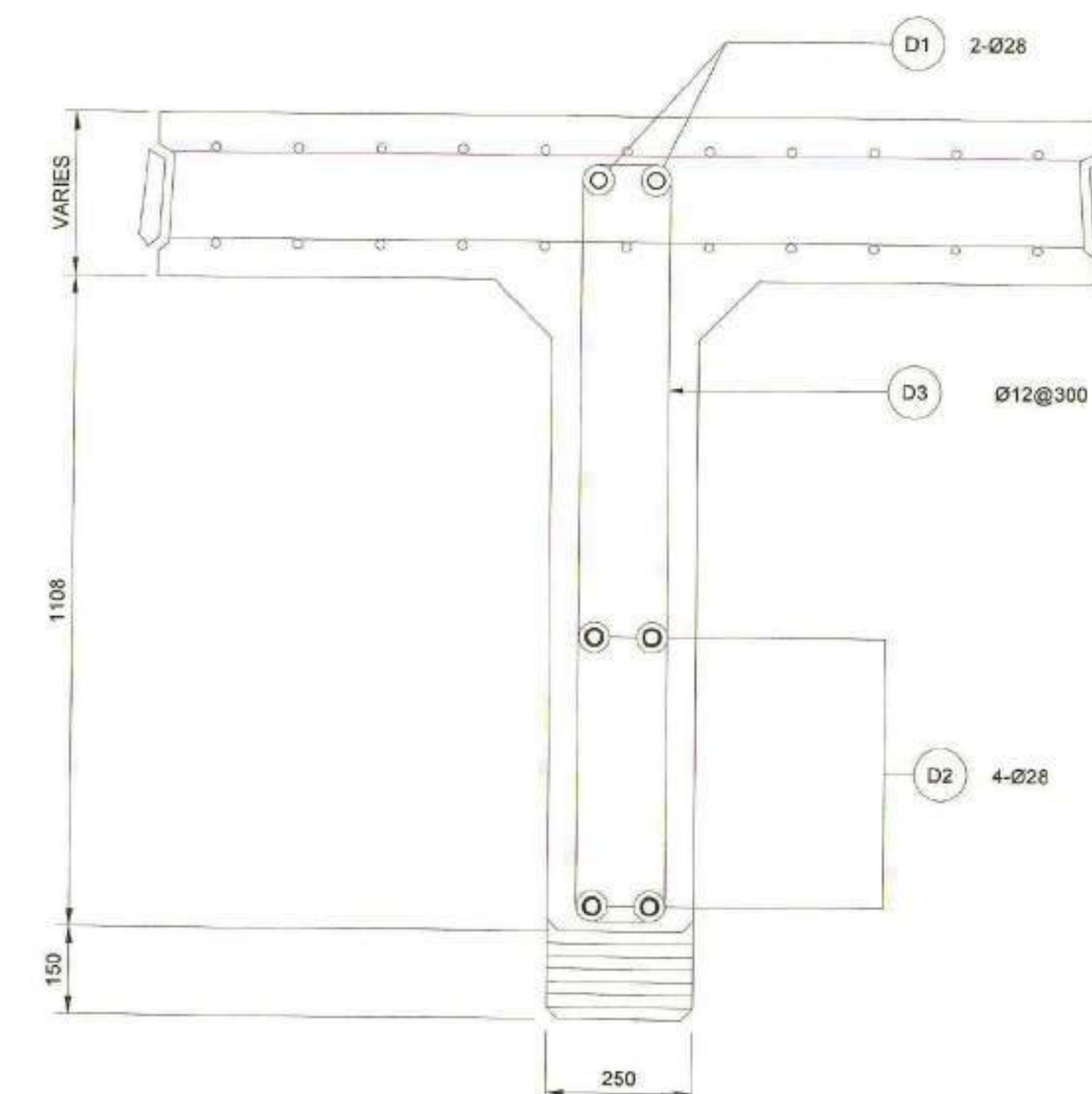
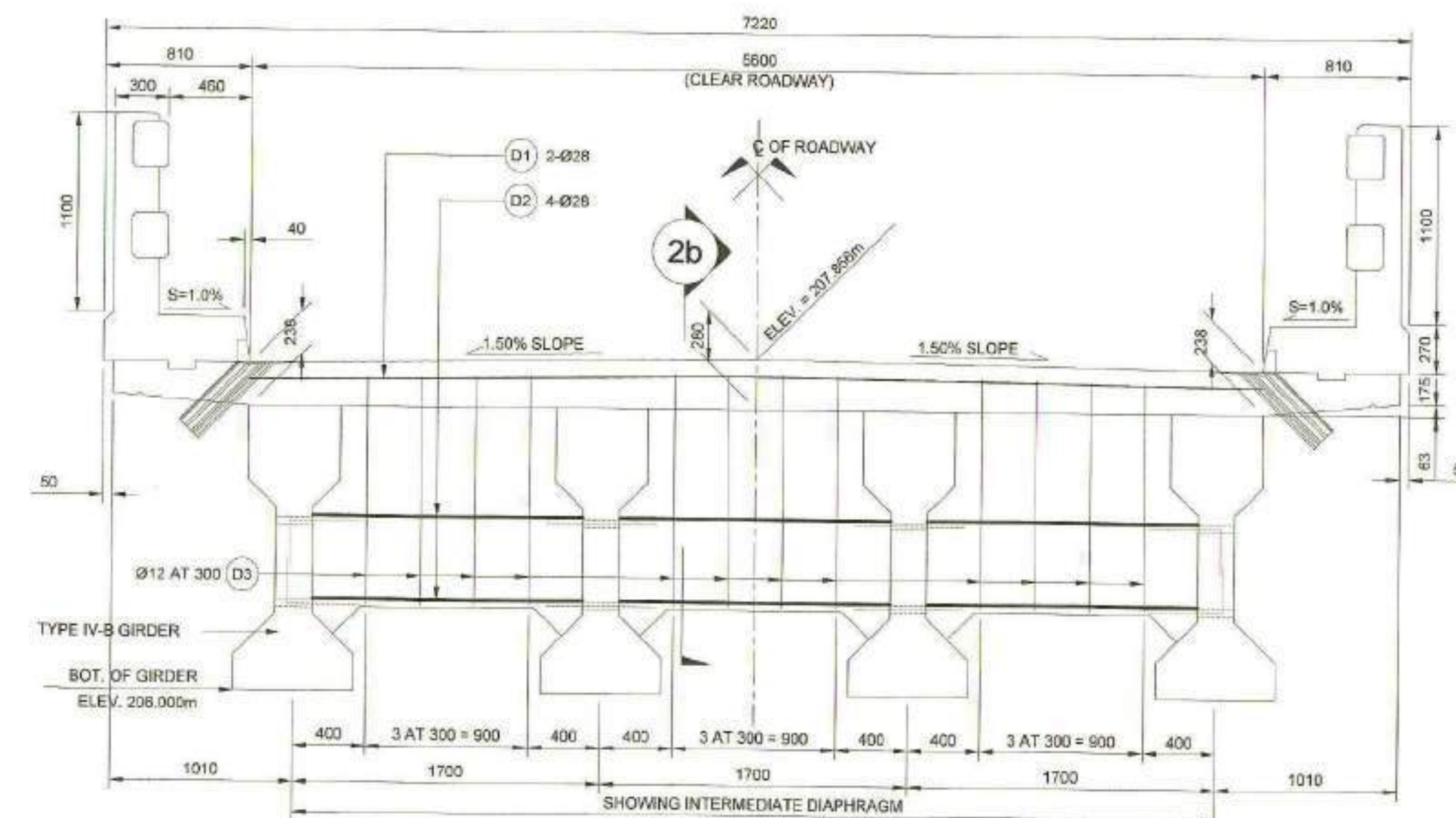
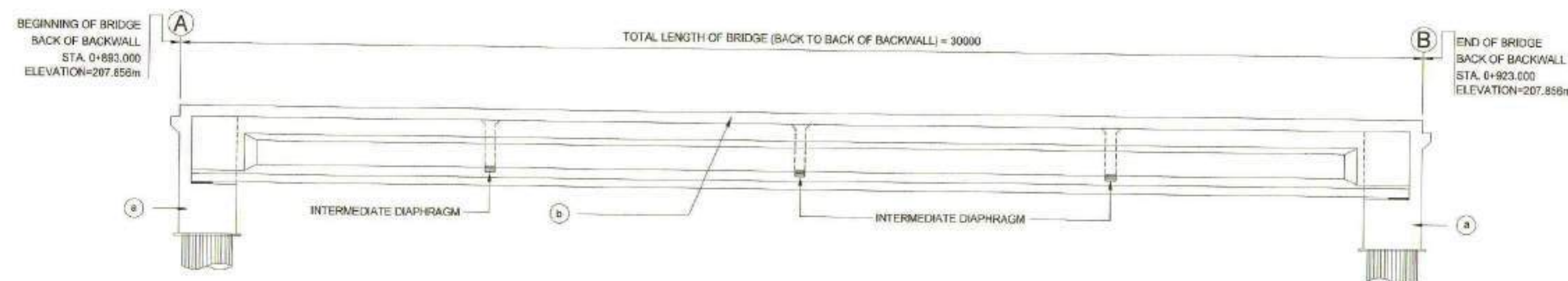
SHEET NO.
38
102

RPCO XI
NO OBJECTION
SIGNATURE:

I-BUILD Component Head



- NOTES:
1. CONCRETE AT (A) AREAS SHALL BE PLACED AT LEAST 21 DAYS AHEAD OF CONCRETE AT (B) AREAS.
 2. REINFORCEMENT SHALL BE CONTINUOUS AT CONSTRUCTION JOINTS.



RPCC XI
NO OBJECTION
SIGNATURE:
ENGR. MARCO ADRIAN G. MONTENEGRO
L-BUILD Component Head



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF AGRICULTURE
"PHILIPPINE RURAL DEVELOPMENT
PROJECT SCALE UP"
PROVINCE OF DAVAO DE ORO
MUNICIPALITY OF LAAK

PROJECT NO.: PRDP-SU-IB-R011-DDO-003-000-000-2023-FMB
SUBPROJECT TITLE: REHABILITATION OF FMR FROM KILAGDING
RECENIA - KIBAGIOU ROAD,
LAAK WITH BRIDGE COMPONENT
LOCATION: LAAK, DAVAO DE ORO

PREPARED BY:
DOMINADOR R. ALMEDILLA
OIC DIVISION HEAD - PDD

DESIGNED BY:
ABRAHAM T. TUNA, JR.
STRUCTURAL ENGINEER
A. SEAD - 2017 - 0102914 - 353A

CHECKED & REVIEWED BY:
RODERICK M. DIGAMON
PROVINCIAL ENGINEER

RECOMMENDING APPROVAL:
ALICIA M. GRACIAS
CO - PPMIU

APPROVED:
DOROTHY P. MONTEJO-GONZAGA
GOVERNOR

SHEET CONTENTS:
CONCRETE POURING SEQUENCE
AND DIAPHRAGM DETAILS

SHEET NO.
39
102