

DAVAO DE ORO PROVINCIAL ENGINEER'S OFFICE		
DAVAO DE ORO PROVINCE		
NAME/TYPE OF SOURCES		POTENTIAL USES
1	SABUD QUARRY	ITEM 200-201
2	KIOKMAY QUARRY	ITEM 104
3	SAN MIGUEL QUARRY	ITEM 200-201-104
4	LUGOM QUARRY	ITEM 200-201
5	STA. JOSEFA QUARRY	ITEM 311-200
6	PASIAN QUARRY	ITEM 200-201-311-405
7	BAYLO QUARRY	ITEM 200-201-311-405
8	LIBUTON QUARRY	ITEM 200
9	MONKAYO QUARRY	FINE AGGREGATES
10	UPPER ULIP QUARRY	ITEM 200-201-311-405-504-505
11	OLAYCON QUARRY	ITEM 200-201-311-405
12	TUBO-TUBO QUARRY	ITEM 504
13	SAN JOSE QUARRY	ITEM 200-201-311-405
14	SAN MIGUEL QUARRY	ITEM 200-201-311-405
15	KATIPUNAN QUARRY	ITEM 200-201-311
16	MAGSAYSAY QUARRY	ITEM 311-405
17	BANTACAN QUARRY	ITEM 200-201-311-405
18	BANGOY QUARRY	ITEM 200-201-311-405
19	PANAG QUARRY	ITEM 505
20	TUPAZ QUARRY	ITEM 200-201
21	TARAGO QUARRY	ITEM 200-201
22	NEW ALBAY QUARRY	ITEM 311 - FINE AGGREGATES
23	BAGONG SILANG QUARRY	ITEM 200-201
24	TIGBAO QUARRY	ITEM 200-201-504
25	LANIPAO QUARRY	ITEM 200-201-504
26	PINTATAGAN QUARRY	ITEM 200-201
27	FUENTES QUARRY	ITEM 200-201-311
28	MATIAO QUARRY	ITEM 200-201-311
29	KINGKING QUARRY	ITEM 200-201-104
30	LAHI QUARRY	ITEM 200-201
31	PAGAKPAK QUARRY	ITEM 200-201
32	LAPINIGAN QUARRY	ITEM 104
33	HIJO QUARRY	ITEM 200-201-311-405
34	DUMLAN QUARRY	ITEM 200-201-311-405
35	LIBAYLIBAY QUARRY	ITEM 504
36	CONCEPCION QUARRY	ITEM 200-201-311-405
37	SAWANGAN QUARRY	ITEM 200-201-311
38	TAGMANOK QUARRY	ITEM 200-201-311
39	MAWAB QUARRY	ITEM 200-201-311
40	NEW SIBONGA QUARRY	ITEM 200-201
41	MANAT QUARRY	ITEM 200-201-104
42	SAN ROQUE QUARRY	ITEM 200
43	TAPIA QUARRY	ITEM 200
44	TAWIN-TAWIN QUARRY	ITEM 200
45	SOOP QUARRY	ITEM 200
46	BAGONG SILANG QUARRY	ITEM 200-201
47	BINASBAS QUARRY	ITEM 200
48	IMELDA-INAKAYAN QUARRY	ITEM 200
49	BAROBO QUARRY	ITEM 200
50	PANDAPAN QUARRY	ITEM 200, 201, 311, 405

RPCO XI

NO OBJECTION

SIGNATURE: ENGR. MARC ADRIAN C. BADDONG

I-BUILD Component Head

BILL OF QUANTITIES

BILL OF QUANTITIES			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
I. General Requirement			
SPL-3	PROVISION OF COMBINED FIELD OFFICE AND LABORATORY BUILDING	1.00	Lump Sum
B.4(1)	CONSTRUCTION SURVEY AND STAKING	7.93	Kilometer
B.5	PROJECT BILLBOARD / SIGNBOARD	2.00	Each
B.7(2)	OCCUPATIONAL SAFETY AND HEALTH PROGRAM	1.00	Lump Sum
B.8(2)	TRAFFIC MANAGEMENT	1.00	Lump Sum
B.9	MOBILIZATION / DEMOBILIZATION	1.00	Lump Sum
II. Rehabilitation of Farm to Market Road			
100(3)a2	INDIVIDUAL REMOVAL OF TREES (SMALL, 301 - 500 mm DIA.)	80.00	Each
101(4)a1	REMOVAL OF ACTUAL STRUCTURE / OBSTRUCTION - 610mm dia RCP	15.00	Linear Meter
102(2)	SURPLUS COMMON EXCAVATION	86,757.75	Cubic Meter
102(3)a	SURPLUS ROCK EXCAVATION (SOFT)	20,625.40	Cubic Meter
104(1)a	EMBANKMENT FROM ROADWAY EXCAVATION, COMMON SOIL	15,831.86	Cubic Meter
105(1)a	SUBGRADE PREPARATION (COMMON MATERIAL)	74,392.33	Square Meter
200(1)	AGGREGATE SUBBASE COURSE	27,277.06	Cubic Meter
311(1)c1	PORTLAND CEMENT CONCRETE PAVEMENT (Unreinforced), 230MM TH	5,901.00	Square Meter
311(1)c1	PORTLAND CEMENT CONCRETE PAVEMENT (Unreinforced), 230MM TH	40,088.75	Square Meter
311(2)f1	PORTLAND CEMENT CONCRETE PAVEMENT (Reinforced), 300MM THICK	57.50	Square Meter
III. Drainage and Slope Protection			
103(1)a	STRUCTURE EXCAVATION, COMMON SOIL	2,431.88	Cubic Meter
103(3)	FOUNDATION FILL	525.33	Cubic Meter
103(6)a	PIPE CULVERTS AND DRAIN EXCAVATION, COMMON SOIL	9,106.27	Cubic Meter
404(1)a	REINFORCING STEEL, GRADE 40	71,981.13	Kilogram
405(1)a3	STRUCTURAL CONCRETE, CLASS A (20.68 MPa)	2,376.55	Cubic Meter
407(8)	LEAN CONCRETE, CLASS B (16.50 MPa)	1.44	Cubic Meter
500(1)a1	PIPE CULVERTS 610mm DIAMETER, CLASS II	8.00	Linear Meter
500(1)a3	PIPE CULVERTS 910mm DIAMETER, CLASS II	96.00	Linear Meter
505(2)a	GROUTED RIPRAP, CLASS A	2,218.30	Cubic Meter
506(1)	STONE MASONRY	1,165.10	Cubic Meter
IV. Miscellaneous Item			
602(3)b	KILOMETER POSTS (PRECAST)	2.00	Each
603(3)a1	METAL GUARDRAILS (METAL BEAM) INCLUDING CONCRETE POST, S	6,169.50	Linear Meter
603(4)a	METAL BEAM END PIECE, FISH TAIL	52.00	Each
605(1)c1	WARNING SIGNS (W1 - 3A)	24.00	Each
605(1)e1	WARNING SIGNS (W1 - 5A)	12.00	Each
605(1)f1	WARNING SIGNS (W1 - 6A)	4.00	Each
605(1)g2	WARNING SIGNS (W2 - 1B)	2.00	Each
605(1)j2	WARNING SIGNS (W2 - 4B)	1.00	Each
605(1)k2	WARNING SIGNS (W2 - 5B)	6.00	Each
605(1)l2	WARNING SIGNS (W2 - 6B)	2.00	Each
605(1)ai1	WARNING SIGNS (W6 - 1B)	8.00	Each
605(1)aj1	WARNING SIGNS (W6 - 2B)	2.00	Each
605(6)e1	HAZARD MARKERS (CHEVRON SIGNS - 450mm x 600mm)	491.00	Each
612(1)	REFLECTORIZED THERMOPLASTIC PAVEMENT MARKINGS (WHITE)	1,706.00	Square Meter
612(2)	REFLECTORIZED THERMOPLASTIC PAVEMENT MARKINGS (YELLOW)	1,189.50	Square Meter
622(1)a	BIO-ENGINEERING SOLUTIONS (COCO-NET), CN 400	5,123.90	Square Meter
622(2)c	BIO-ENGINEERING SOLUTIONS (COCO-LOGS/FASCINE), CN 300	340.00	Linear Meter
622(3)a	BIO-ENGINEERING SOLUTIONS (VEGETATION)	4,378.20	Square Meter

SCHEDULE OF BIO-ENGINEERING SOLUTIONS

COCONET

Station and/or Location			Length	Average Height (as to plan)	Average Area	Remarks
0 + 500.000	to	0 + 520.000	20.000	2.83	56.60	L/S
0 + 560.000	to	0 + 620.000	60.000	5.77	346.20	L/S
0 + 680.000	to	0 + 700.000	20.000	5.79	115.80	L/S
0 + 820.000	to	0 + 860.000	40.000	5.37	214.80	L/S
0 + 960.000	to	1 + 040.000	80.000	7.60	608.00	R/S
1 + 270.000	to	1 + 330.000	60.000	3.77	226.20	L/S
1 + 590.000	to	1 + 670.000	80.000	3.03	242.40	R/S
2 + 380.000	to	2 + 420.000	40.000	3.57	142.80	L/S
4 + 760.000	to	4 + 800.000	40.000	5.64	225.60	L/S
4 + 920.000	to	4 + 940.000	20.000	9.06	181.20	L/S
5 + 020.000	to	5 + 040.000	20.000	7.51	150.20	L/S
5 + 060.000	to	5 + 080.000	20.000	5.86	117.20	R/S
5 + 240.000	to	5 + 280.000	40.000	5.34	213.60	R/S
5 + 320.000	to	5 + 330.000	10.000	14.83	148.30	R/S
5 + 360.000	to	5 + 460.000	100.000	9.03	903.00	R/S
5 + 610.000	to	5 + 630.000	20.000	9.97	199.40	R/S
5 + 630.000	to	5 + 650.000	20.000	3.71	74.20	L/S
6 + 210.000	to	6 + 230.000	20.000	2.42	48.40	R/S
6 + 280.000	to	6 + 300.000	20.000	7.12	142.40	R/S
6 + 750.000	to	6 + 810.000	60.000	3.26	195.60	R/S
6 + 870.000	to	6 + 890.000	20.000	4.33	86.60	R/S
6 + 950.000	to	7 + 010.000	60.000	4.01	240.60	R/S
7 + 130.000	to	7 + 150.000	20.000	3.18	63.60	R/S
7 + 310.000	to	7 + 370.000	60.000	3.02	181.20	R/S

VEGETATION

Station and/or Location			Length	Average Height (as to plan)	Average Area	Remarks
0 + 500.000	to	0 + 520.000	20.000	2.83	56.60	L/S
0 + 560.000	to	0 + 620.000	60.000	5.77	346.20	L/S
0 + 680.000	to	0 + 700.000	20.000	5.79	115.80	L/S
0 + 850.000	to	0 + 860.000	10.000	5.37	53.70	L/S
0 + 960.000	to	1 + 040.000	80.000	7.60	608.00	R/S
1 + 270.000	to	1 + 330.000	60.000	3.77	226.20	L/S
4 + 760.000	to	4 + 800.000	40.000	5.64	225.60	L/S
4 + 920.000	to	4 + 940.000	20.000	9.06	181.20	L/S
5 + 020.000	to	5 + 040.000	20.000	7.51	150.20	L/S
5 + 060.000	to	5 + 080.000	20.000	5.86	117.20	R/S
5 + 240.000	to	5 + 280.000	40.000	5.34	213.60	R/S
5 + 320.000	to	5 + 330.000	10.000	14.83	148.30	R/S
5 + 360.000	to	5 + 460.000	100.000	9.03	903.00	R/S
5 + 630.000	to	5 + 650.000	20.000	3.71	74.20	L/S
6 + 210.000	to	6 + 230.000	20.000	2.42	48.40	R/S
6 + 280.000	to	6 + 300.000	20.000	7.12	142.40	R/S
6 + 750.000	to	6 + 810.000	60.000	3.26	195.60	R/S
6 + 870.000	to	6 + 890.000	20.000	4.33	86.60	R/S
6 + 950.000	to	7 + 010.000	60.000	4.01	240.60	R/S
7 + 130.000	to	7 + 150.000	20.000	3.18	63.60	R/S
7 + 310.000	to	7 + 370.000	60.000	3.02	181.20	R/S

Station and/or Location			Length	Remarks
0 + 960.000	to	1 + 040.000	80.000	R/S
4 + 790.000	to	4 + 810.000	20.000	L/S
4 + 920.000	to	4 + 940.000	20.000	L/S
5 + 020.000	to	5 + 040.000	20.000	L/S
5 + 050.000	to	5 + 070.000	20.000	R/S
5 + 240.000	to	5 + 260.000	20.000	R/S
5 + 310.000	to	5 + 330.000	40.000	R/S (Double Coco log)
5 + 390.000	to	5 + 410.000	40.000	R/S (Double Coco log)
5 + 420.000	to	5 + 460.000	40.000	R/S
5 + 510.000	to	5 + 530.000	20.000	R/S
6 + 280.000	to	6 + 300.000	20.000	R/S

(COCO-LOGS/FASCINE)



	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 - KIBAGIOU ROAD, LAAK WITH BRIDGE COMPONENT	DOMINADOR R. ALMEDILLA OIC DIVISION HEAD - PDD	RONNIE S. APARRI ENGINEER II	RODERICK M. DIGAMON PROVINCIAL ENGINEER	ALICIA M. GRACIADAS CO - PPMIU	DOROTHY P. MONTEJO-GONZAGA GOVERNOR	BILL OF QUANTITIES & SCHEDULE OF BIO-ENGINEERING SOLUTIONS	7 102
		LOCATION:	LAAK, DAVAO DE ORO							

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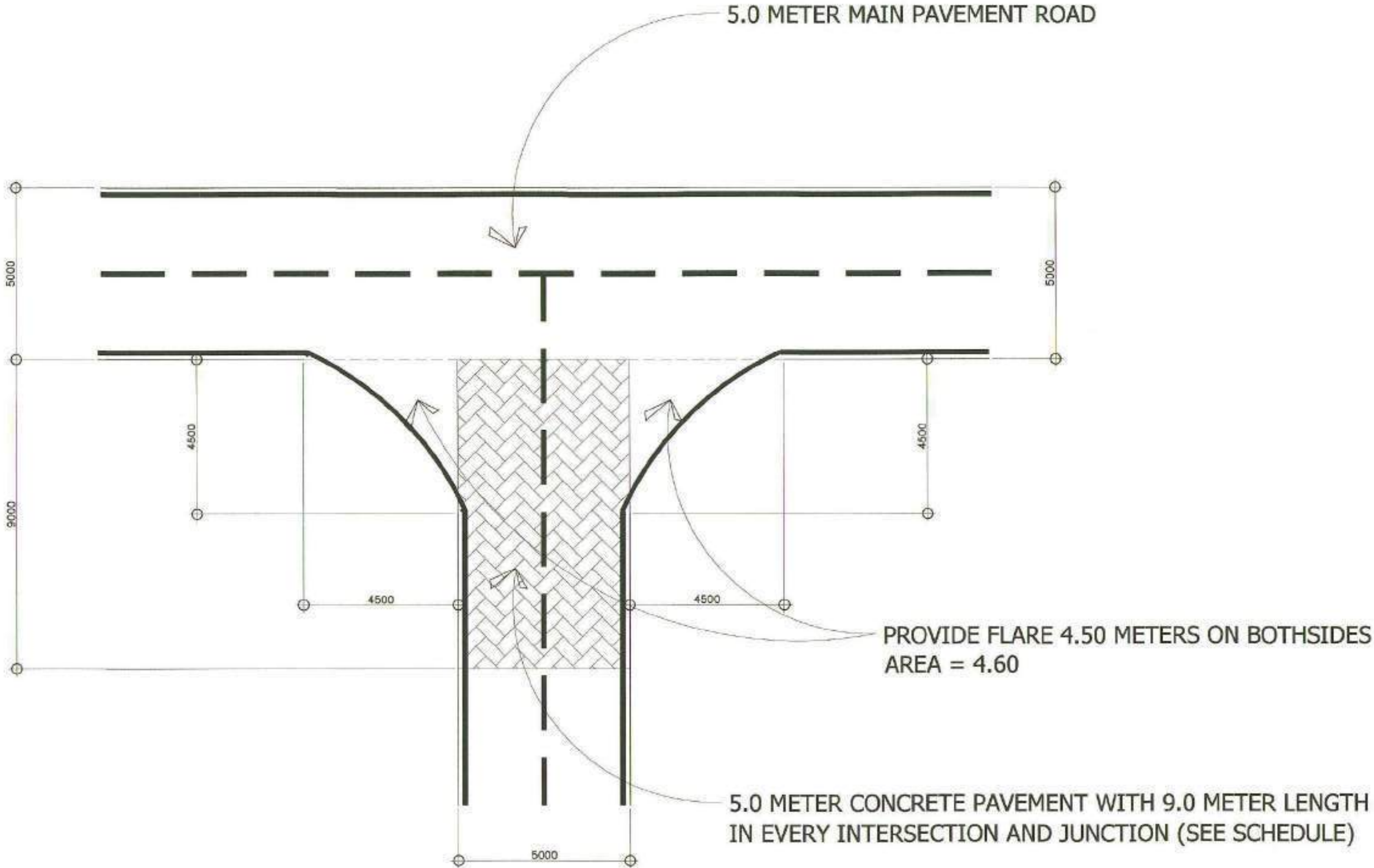
INTERSECTION SCHEDULE

STATION	Width	Distance	Flare Area (2 sides)	Area	Remarks
0 + 000.000	5.000	9.000	20.250	65.25	-
4 + 080.000	5.000	9.000	20.250	65.25	Right Side
4 + 705.000	5.000	9.000	20.250	65.25	Right Side
5 + 900.000	5.000	9.000	20.250	65.25	Left Side
6 + 835.000	5.000	9.000	20.250	65.25	Right Side
7 + 920.000	5.000	9.000	20.250	65.25	Left Side
7 + 925.000	5.000	9.000	20.250	65.25	Right Side

CONCRETE SHOULDER SCHEDULE

A. CONCRETE SHOULDER (NOTE: FOR 10% SLOPE/GRADIENT)			Remarks
STATION	Width (B/S)	Distance	Remarks
1+070 to 1+200	3.000	130.00	Both Side
1+480 to 1+630	3.000	150.00	Both Side
1+910 to 2+095	3.000	185.00	Both Side
2+270 to 2+451	3.000	181.00	Both Side
2+500 to 2+674	3.000	174.00	Both Side
3+431 to 3+706	3.000	275.00	Both Side
5+469 to 5+739	3.000	270.00	Both Side
6+160 to 6+289	3.000	129.00	Both Side
6+620 to 6+760	3.000	140.00	Both Side
7+090 to 7+200	3.000	110.00	Both Side
7+240 to 7+463	3.000	223.00	Both Side

TYPICAL INTERSECTION FLARE DETAILS



RPC XI
NO OBJECTION

SIGNATURE:
ENGINEER/PROVINCIAL ENGINEER

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.:

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 -
KIBAGIOU ROAD, LAAK WITH BRIDGE COMPONENT

LOCATION:

LAAK, DAVAO DE ORO

DOMINADOR R. ALMEDILLA
OIC DIVISION HEAD - PDD

RONNIE S. APARRI
ENGINEER II

RODERICK M. DIGAMON
PROVINCIAL ENGINEER

ALICIA M. GRACIAS
CO - PPMU

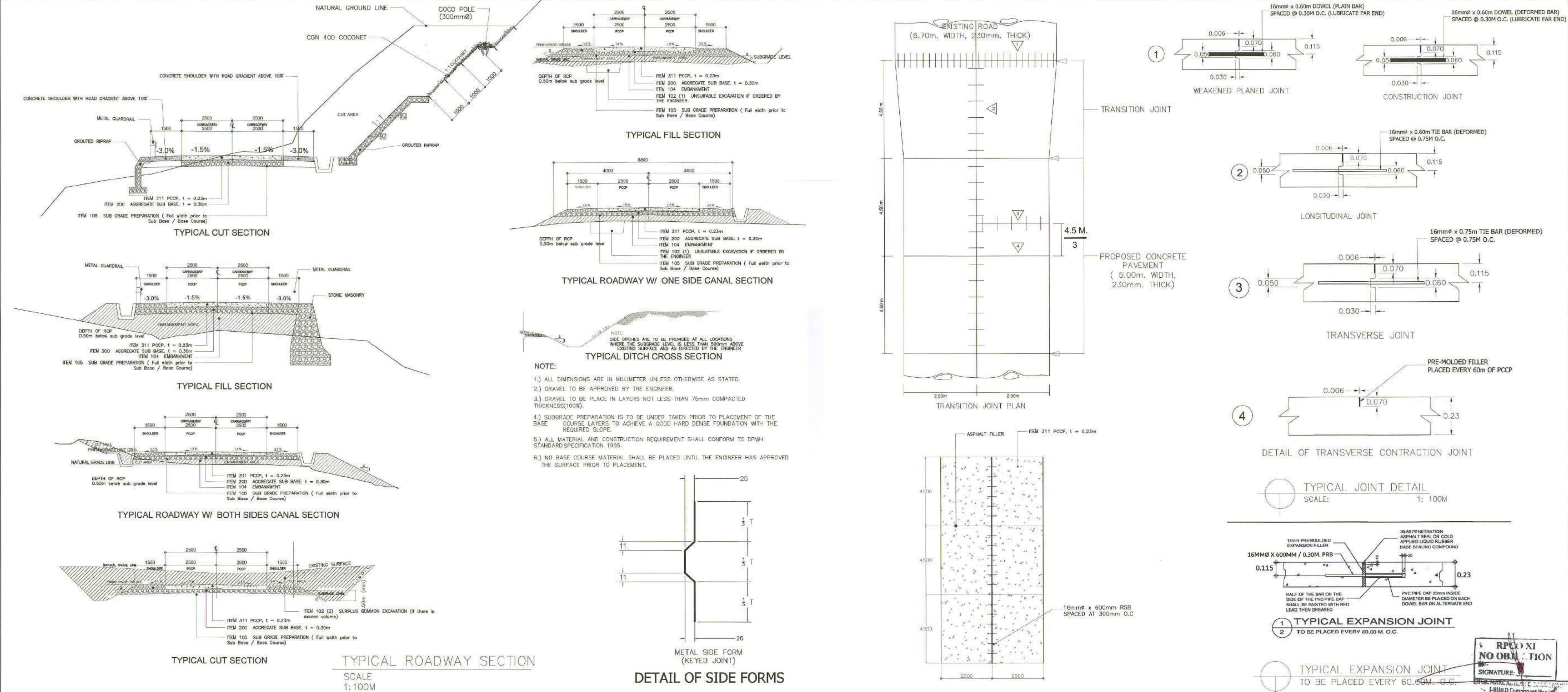
DOROTHY P. MONTEJO GONZAGA
GOVERNOR

INTERSECTION SCHEDULE
TYPICAL FLARE DETAIL
CONCRETE SHOULDER
SCHEDULE

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	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 - KIBAGIOU ROAD, LAAK WITH BRIDGE COMPONENT	DOMINADOR R. ALMEDILLA OIC DIVISION HEAD - PDD	RONNIE S. APARRI ENGINEER II	RODERICK M. DIGAMON PROVINCIAL ENGINEER	ALICIA M. GRACIADAS CO - PPMU	DOROTHY P. MONTEJO-GONZAGA GOVERNOR	TYPICAL ROADWAY SECTION / TYPICAL JOINT DETAIL	11
		LOCATION:	LAAK, DAVAO DE ORO							102