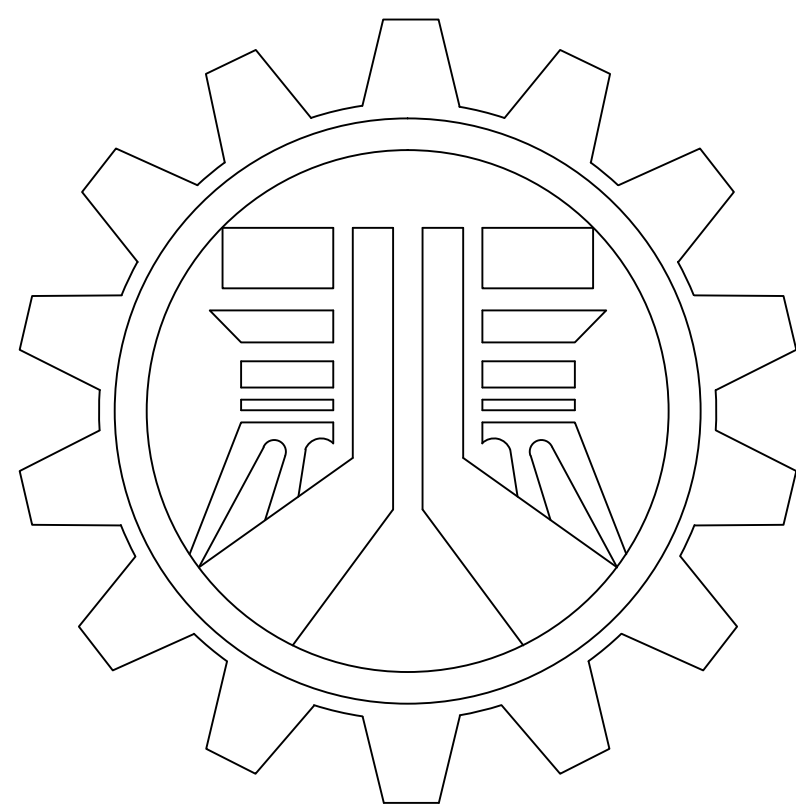


REPUBLIC OF THE PHILIPPINES  
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS

DPWH CEBU 4TH DISTRICT ENGINEERING OFFICE  
POBLACION, DALAGUETE, CEBU



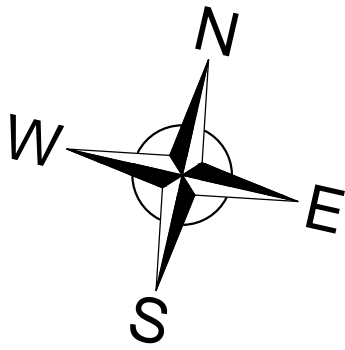
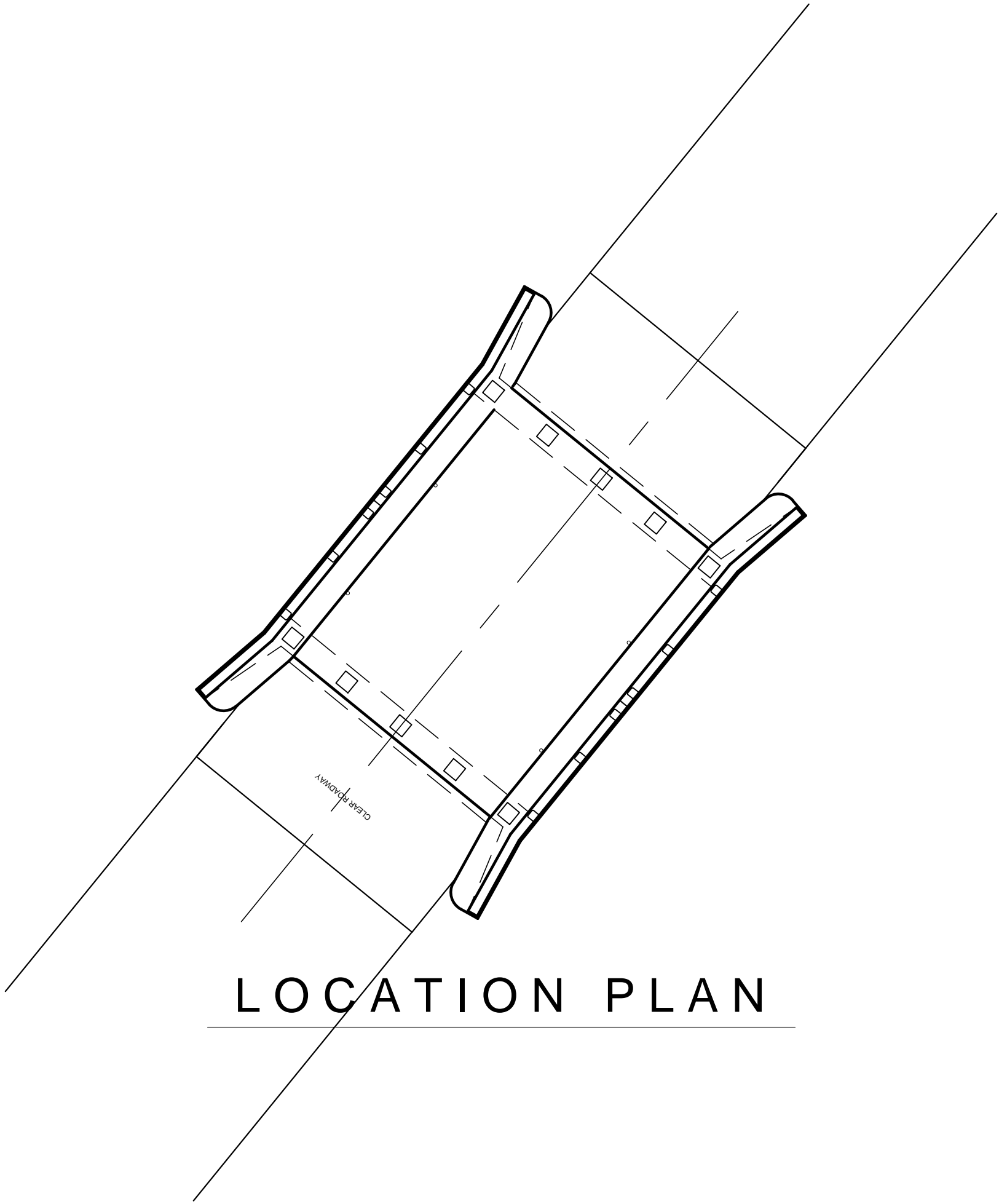
RETROFITTING/STRENGTHENING OF  
LALAO BRIDGE (B00460CB)  
ALONG SANTANDER-BARILI-TOLEDO ROAD

K0167 + 186  
MALABUYOC, CEBU

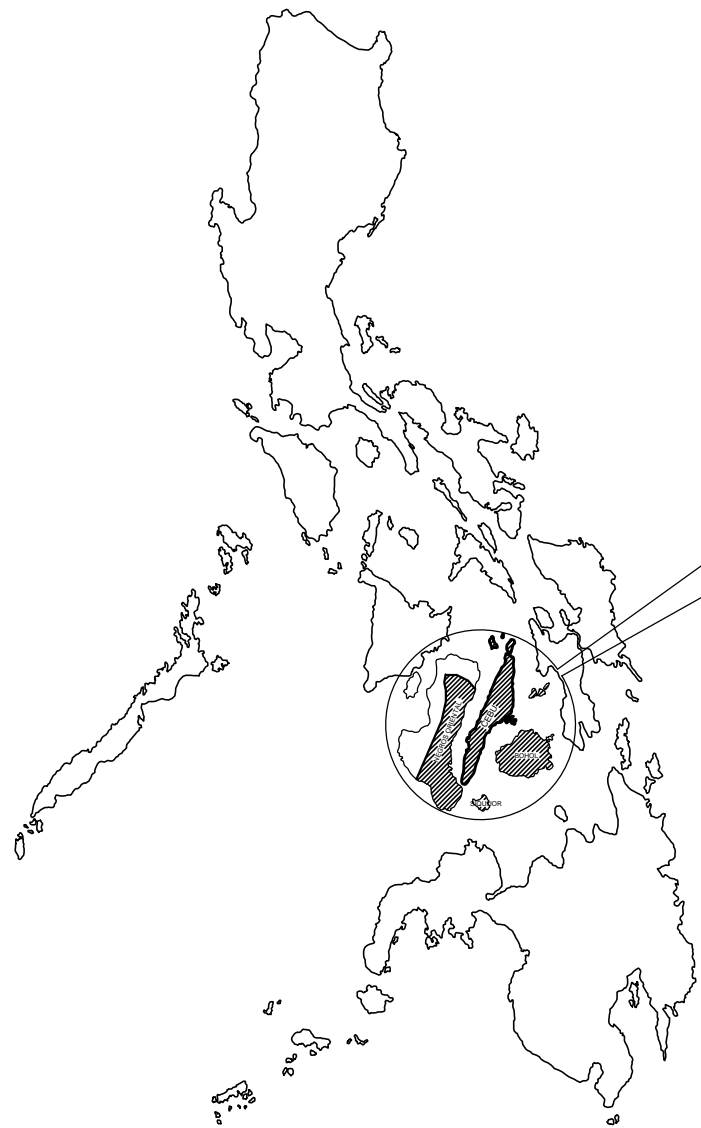
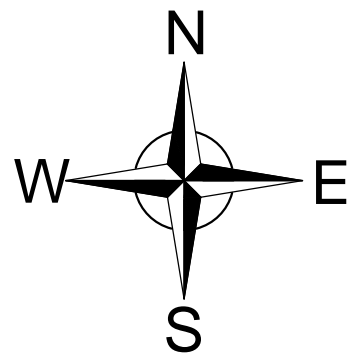
TYPE OF BRIDGE = FLAT SLAB

LENGTH = 11.40m

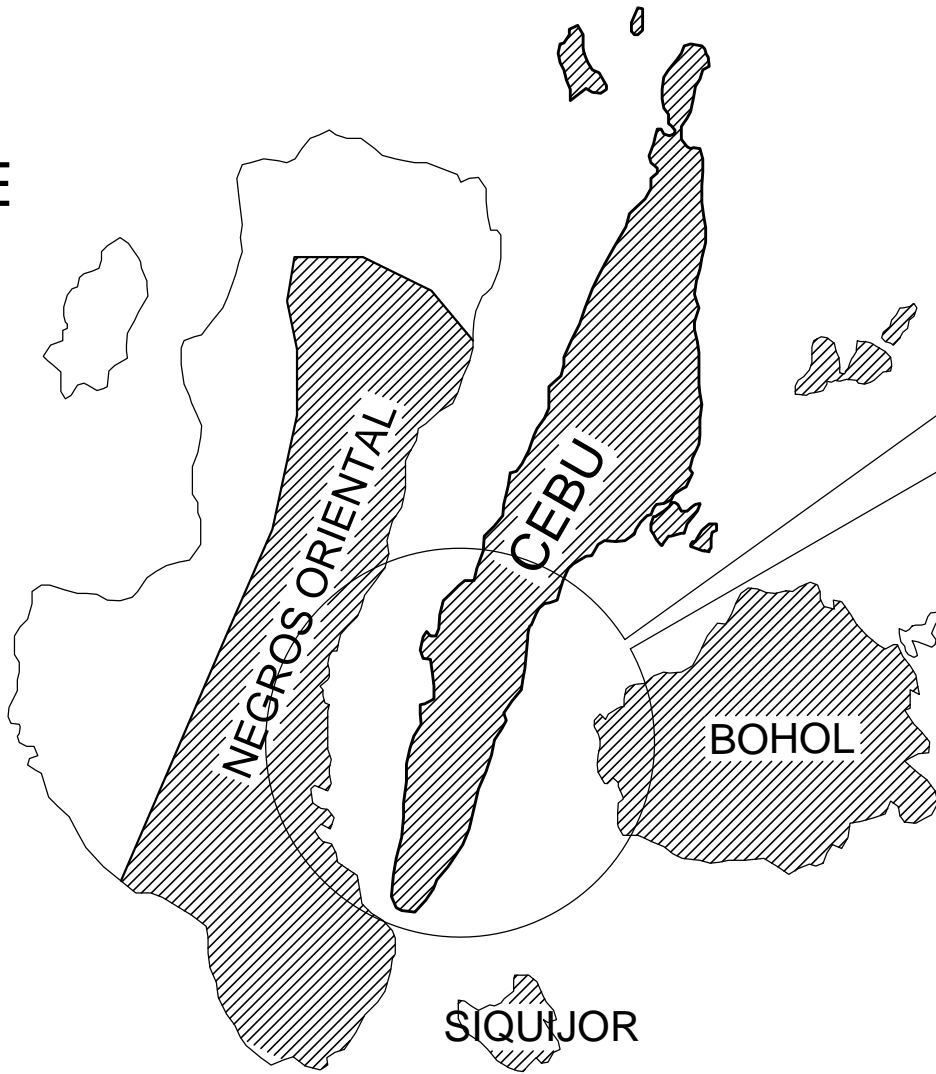
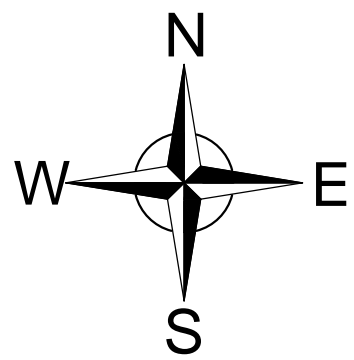
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TITLE PAGE	JOSEPH PRESLEY M. CABALLERO	COLLIN MARK R. SALVADOR	MARLON D. MAROLLANO	RENULT G. RICARDO	JAMES D. DELLOSA Lt. C. PA Res.	01
	PRECISION INST. TECH. I	ENGINEER II	CHIEF PLANNING AND DESIGN SECTION	ASSISTANT DISTRICT ENGINEER	DISTRICT ENGINEER	05



PROJECT LENGTH DATA		
SECTION NO.	L I M I T S	LENGTH (m)
1	K0167 + 186	11.40
	TOTAL	11.40

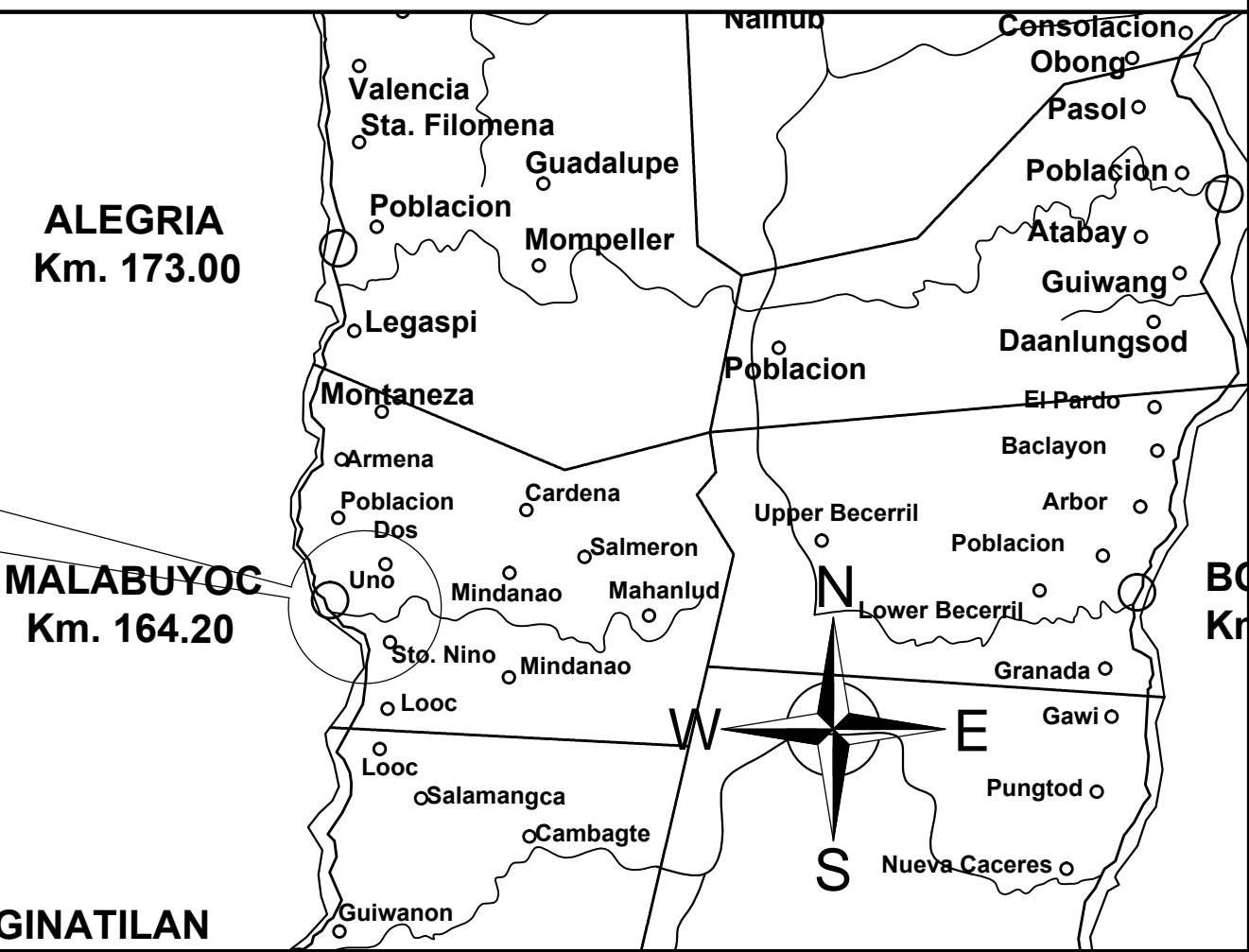


KEY MAP

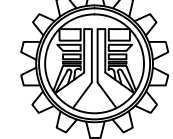


LOCATION MAP

THIS SITE



VICINITY MAP

<div>REPUBLIC OF THE PHILIPPINES</div> <div>DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS</div> <div>CEBU 4th DISTRICT ENG'G OFFICE</div> <div></div> <div>PLANNING &amp; DESIGN SECTION</div> <div>POBLACION, DALAGUETE, CEBU</div>	PROJECT TITLE / LOCATION:  RETROFITTING/STRENGTHENING OF LALAO BRIDGE (B00460CB) ALONG SANTANDER-BARILI-TOLEDO ROAD K0167+186  MALABUYOC, CEBU	SHEET CONTENTS:  LOCATION PLAN KEY MAP LOCATION MAP VICINITY MAP PROJECT LENGTH DATA	CAD:	CHECKED:	SUBMITTED:	APPROVAL RECOMMENDED:	APPROVED:	SHEET NO:  02  05
			JOSEPH PRESLEY M. CABALLERO PRECISION INST. TECH. I	COLLIN MARK R. SALVADOR ENGINEER II	MARLON D. MAROLLANO CHIEF, PLANNING AND DESIGN SECTION	RENULT G. RICARDO ASSISTANT DISTRICT ENGINEER	JAMES D. DELLOSA Lt. C. PA Res. DISTRICT ENGINEER	

SUMMARY OF QUANTITIES

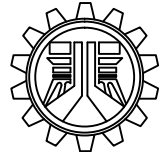
ITEM NO.	DESCRIPTION	UNIT	QTY.
B.5	PROJECT BILLBOARD / SIGNBOARD	each	2
B.7	OCCUPATIONAL SAFETY AND HEALTH PROGRAM	month	1.73
B.8	TRAFFIC MANAGEMENT	month	1.73
B.9	MOBILIZATION / DEMOBILIZATION	l.s.	1
416	CARBON FIBER REINFORCEMENT SHEETS (3 LAYERS)	m²	357.56
5-1	EPOXY INJECTION	l.m.	30.00
505 (5)	GROUTED RIPRAP (CLASS A)	m³	16.00

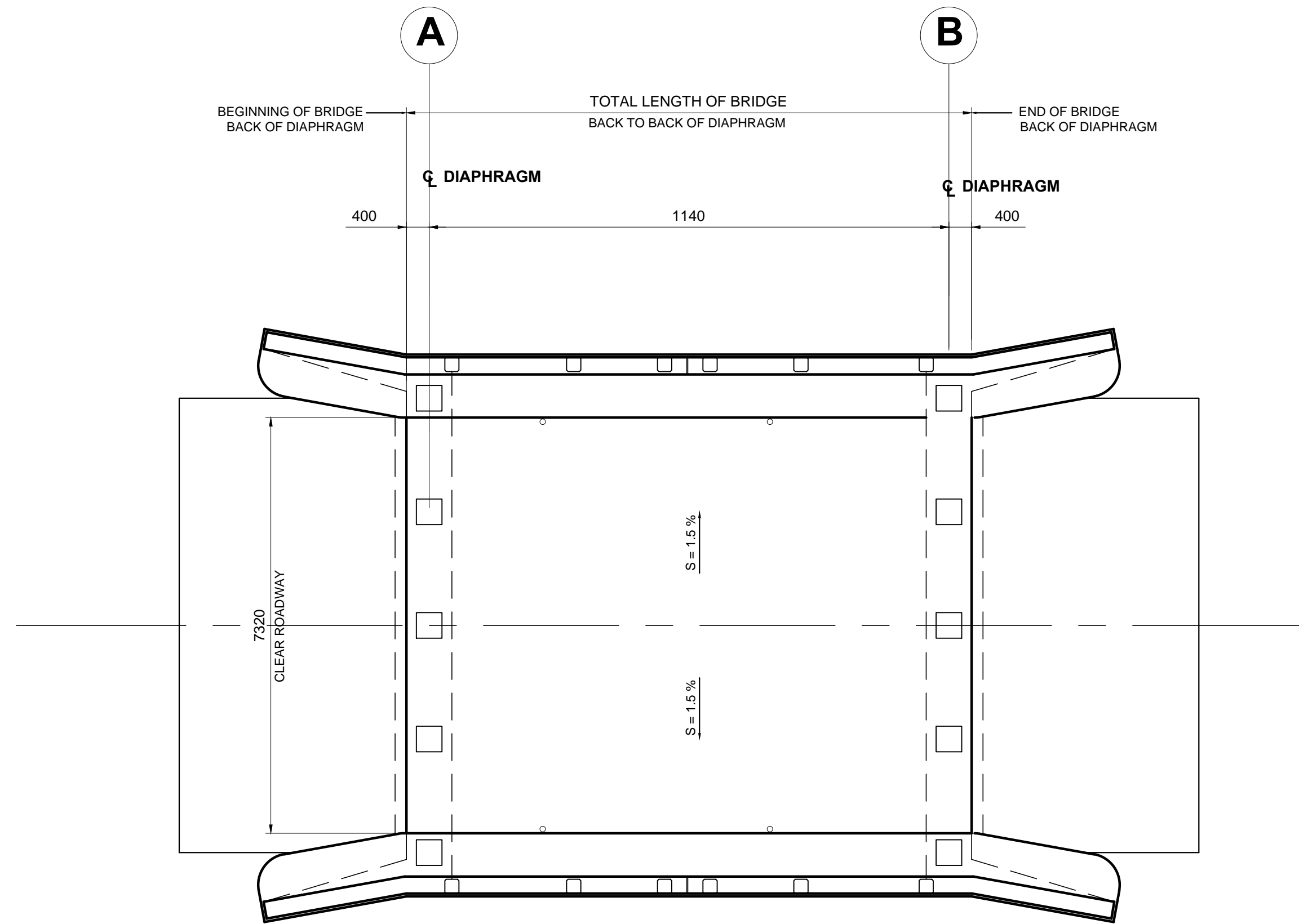
GENERAL NOTES

1. ALL WORKS SHALL COMPLY WITH THE DPWH STANDARD SPECIFICATIONS FOR HIGHWAYS, BRIDGES AND AIRPORTS, VOLUME II, 2013 EDITION AND BRIDGE REPAIR MANUAL, NOVEMBER 2008 EDITION, OF THE DPWH-JICA TECHNICAL COOPERATION PROJECT.
2. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS AND MEMBER SIZES ARE EXPRESSED IN MILLIMETERS.
3. REFER TO A SEPARATE QUANTITY CALCULATION SHEETS FOR THE DETAILED COMPUTATIONS OF QUANTITIES OF THE ITEMS OF WORK OUTLINED FOR THIS PROJECT.
4. THE IMPLEMENTING OFFICE SHALL IDENTIFY THE LOCATIONS OF THE NECESSARY ROAD SAFETY FACILITIES OR THE PROTECTION OF THE PUBLIC AND MOTORISTS.
5. PRIOR TO THE COMMENCEMENT OF THE ACTUAL CONSTRUCTION, AN AS-STAKED SURVEY SHALL BE CONDUCTED BY THE WINNING BIDDER IN COORDINATION WITH THE IMPLEMENTING OFFICE CONCERNED WHEREIN THE RESULTING PLAN AS-STAKED PLAN SHALL BE APPROVED BY THE PROPER AUTHORITIES.
6. ALL EXISTING PERMANENT STRUCTURES (SUCH AS PAVEMENT CURBS, GUTTER, RIPRAP, SLOPE PROTECTION AND ALL OTHER SIMILAR WORKS WHICH WILL INTERFERE WITH THE CONSTRUCTION/ REPAIR SHALL COMPLETELY REMOVED AND DISPOSED OFF FROM THE SITE BY THE CONTRACTOR. ALL SALVAGEABLE MATERIALS SHALL BE PROPERLY AND CAREFULLY DISMANTLED AND DEPOSITED AT A CONVENIENT SITE AS INSTRUCTED BY THE ENGINEER. HOWEVER, IF SUCH PERMANENT WORKS ARE DESIGNATED TO REMAIN AND IT HAD BEEN DEMOLISHED BY THE CONTRACTOR FOR THE NECESSARY PROSECUTION OF THE WORKS. THESE DEMOLISHED PERMANENT WORKS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION.

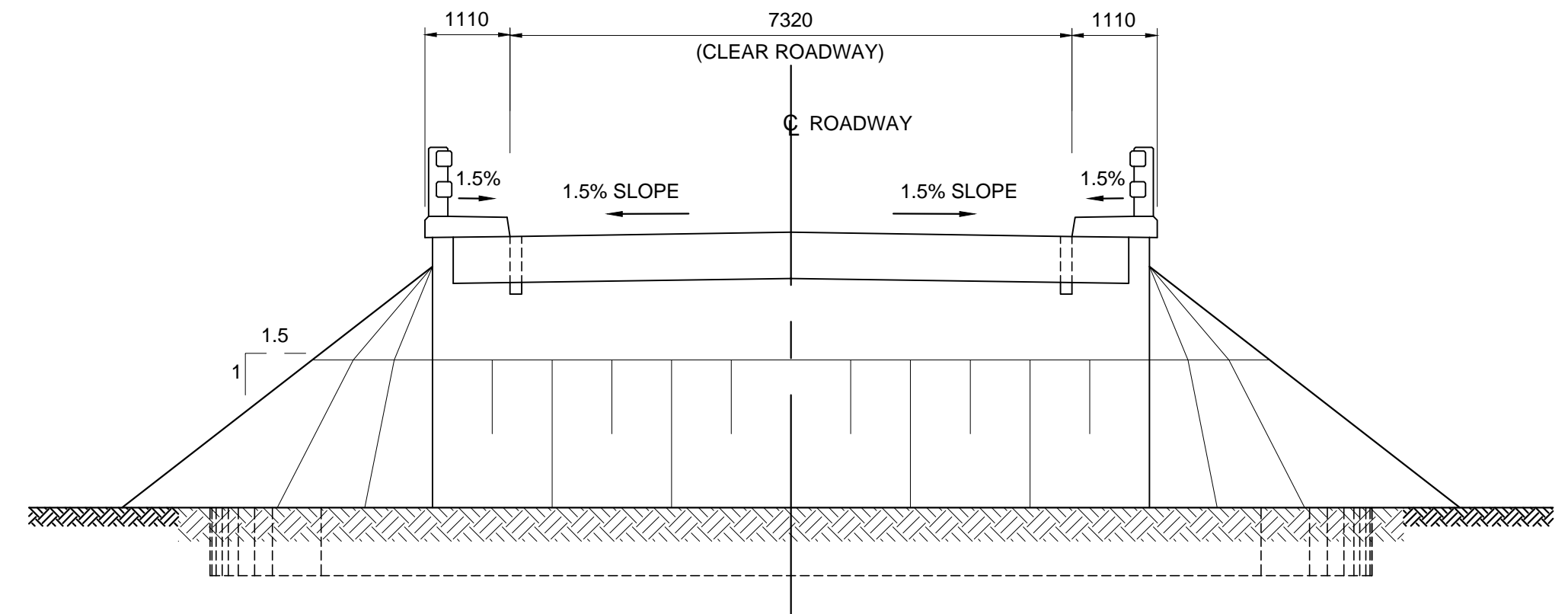
INDEX OF SHEETS

SECTION NO.	
1	TITLE PAGE
2	LOCATION PLAN, KEY MAP, LOCATION MAP, VICINITY MAP, PROJECT LENGTH DATA & INDEX OF SHEETS
3	SUMMARY OF QUANTITIES
4	GENERAL ELEVATION, GENERAL PLAN & SECTION
5	CARBON FIBER SHEET DET., WATER PROOFING ON DECK SLAB & CARBON FIBER BELOW DECK SLAB

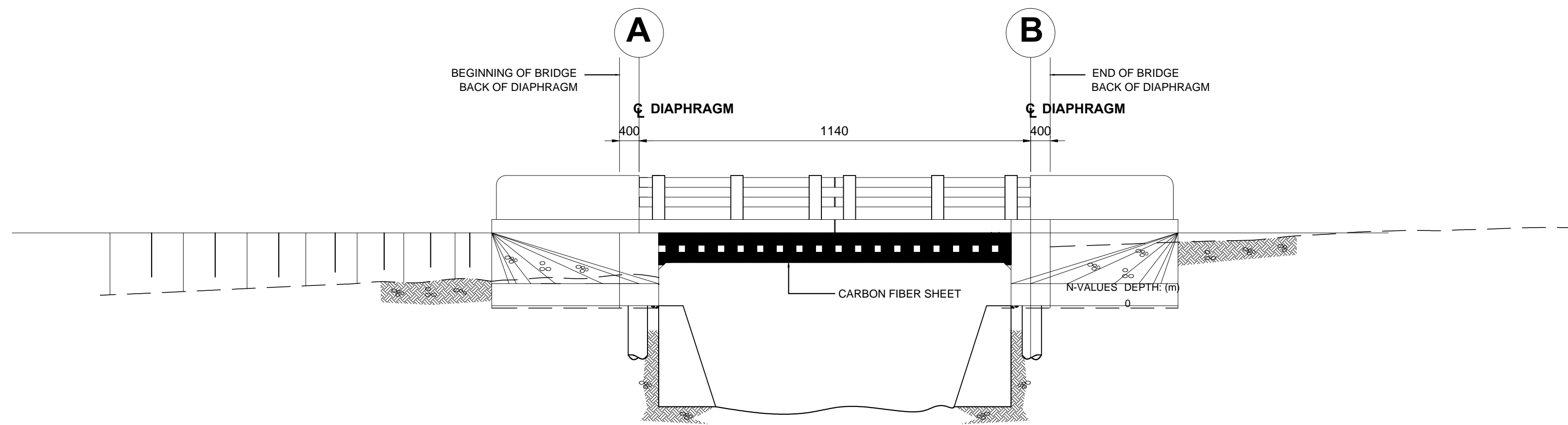
<div>REPUBLIC OF THE PHILIPPINES</div> <div>DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS</div> <div>CEBU 4th DISTRICT ENG'G OFFICE</div> <div><div></div><div>PLANNING &amp; DESIGN SECTION</div><div>POBLACION, DALAGUETE, CEBU</div></div>	PROJECT TITLE / LOCATION:  RETROFITTING/STRENGTHENING OF LALAO BRIDGE (B00460CB) ALONG SANTANDER-BARILI-TOLEDÓ ROAD K0167+186  MALABUYOC, CEBU	SHEET CONTENTS:  SUMMARY QUANTITIES INDEX OF SHEETS GENERAL NOTES	CAD:	CHECKED:	SUBMITTED:	APPROVAL RECOMMENDED:	APPROVED:	SHEET NO: <div>03 05</div>
			JOSEPH PRESLEY M. CABALLERO PRECISION INST. TECH. I	COLLIN MARK R. SALVADOR ENGINEER II	MARLON D. MAROLLANO CHIEF, PLANNING AND DESIGN SECTION	RENULT G. RICARDO ASSISTANT DISTRICT ENGINEER	JAMES D. DELLOSA Lt. C. PA Res. DISTRICT ENGINEER	




**GENERAL PLAN**  
SCALE 1:75 MTS.

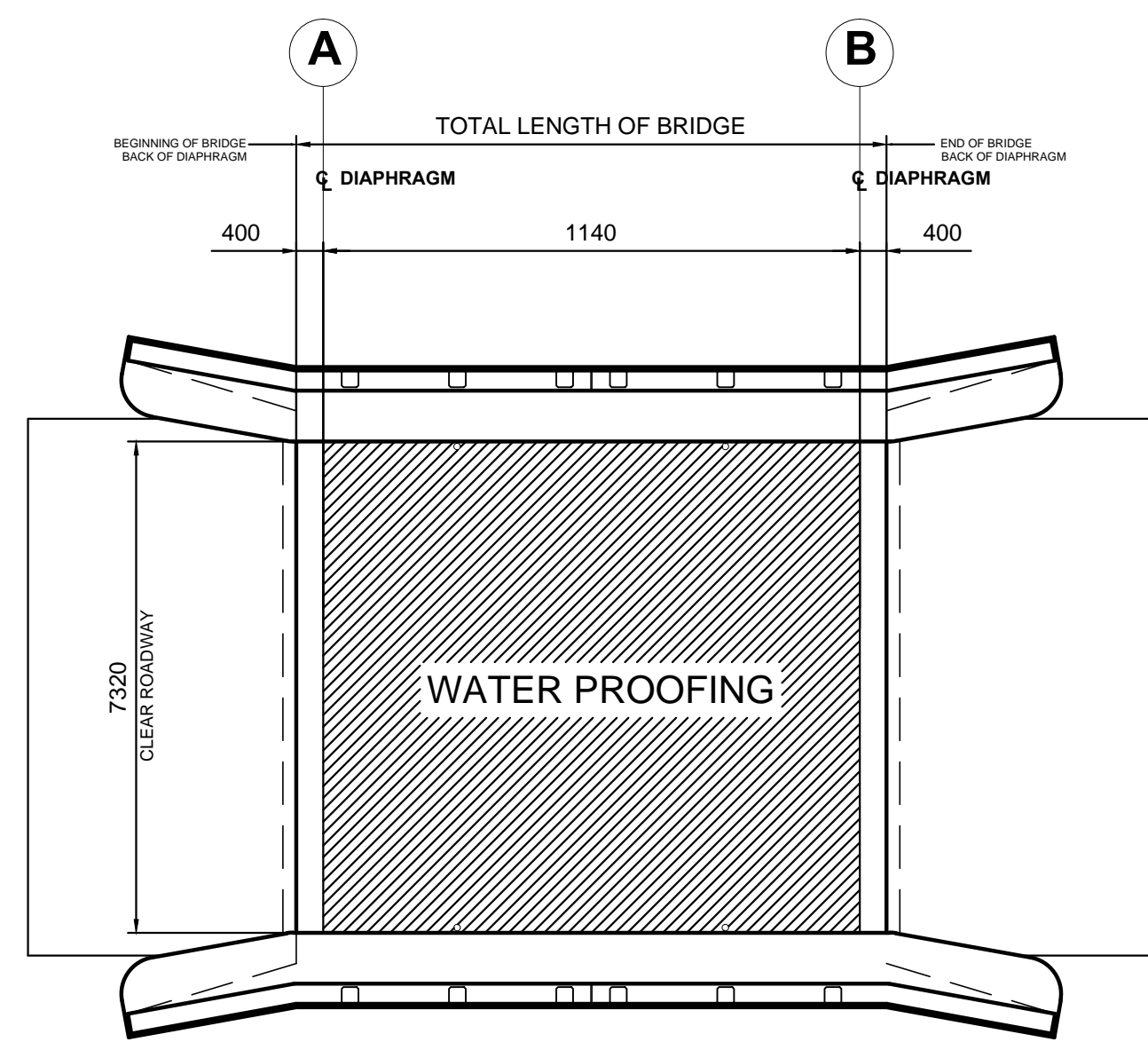


**SECTION**  
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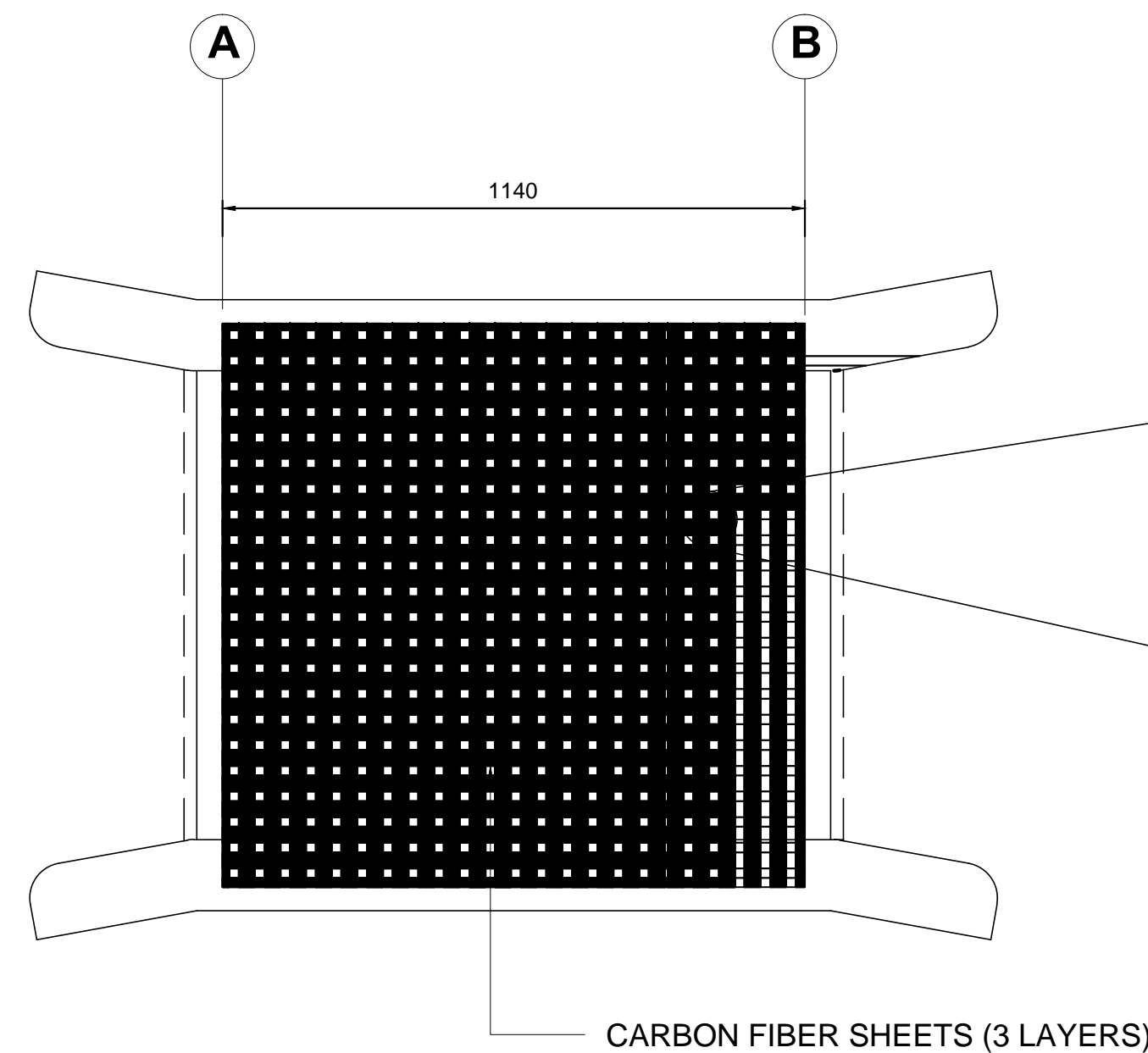


**GENERAL ELEVATION**  
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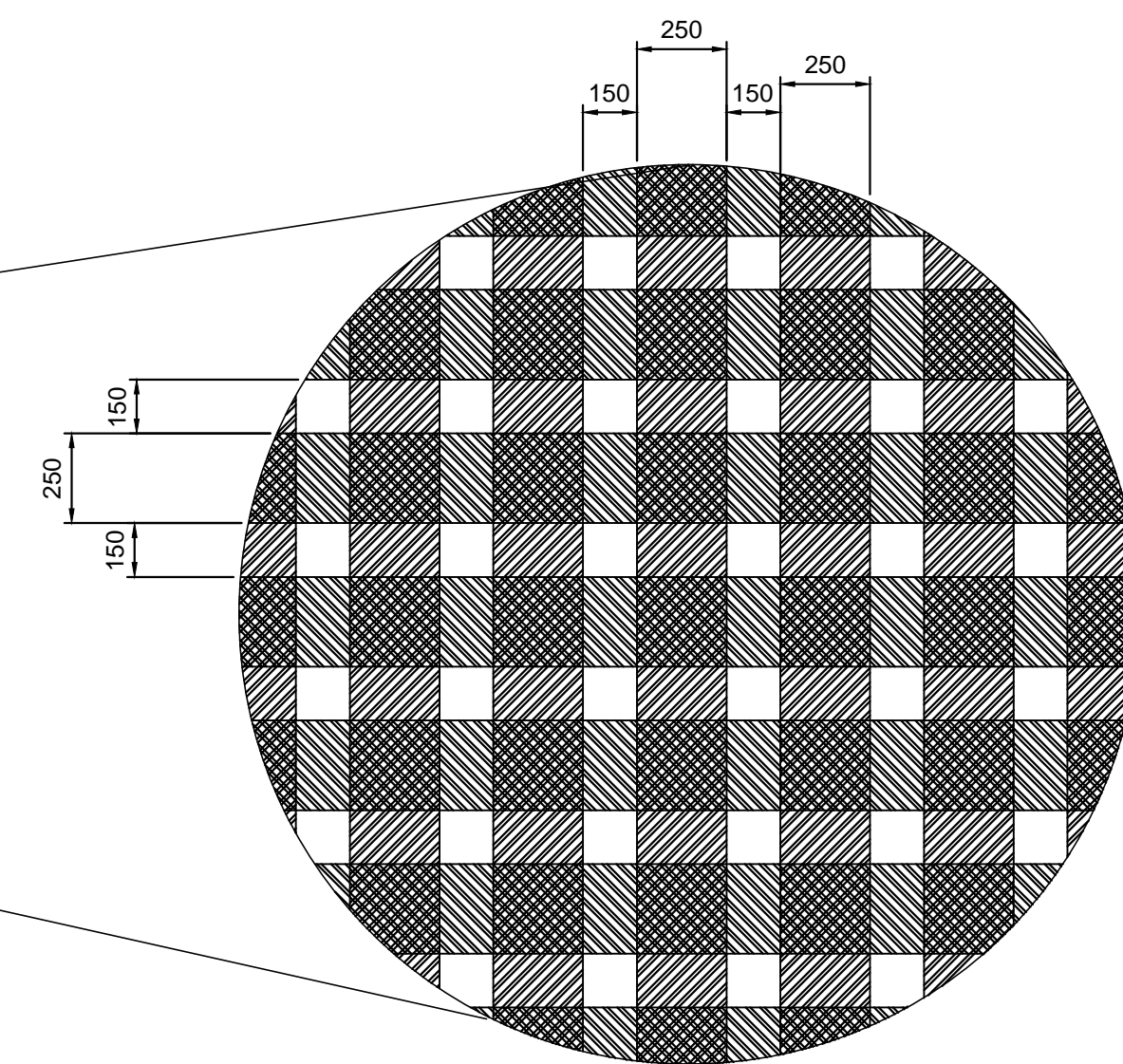
REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS <b>CEBU 4th DISTRICT ENG'G OFFICE</b>  PLANNING & DESIGN SECTION POBLACION, DALAGUETE, CEBU	PROJECT TITLE / LOCATION: RETROFITTING/STRENGTHENING OF LALAO BRIDGE (B00460CB) ALONG SANTANDER-BARILI-TOLEDO ROAD K0167+186 MALABUYOC, CEBU	SHEET CONTENTS: GENERAL PLAN GENERAL ELEVATION SECTION	CAD: JOSEPH PRESLEY M. CABALLERO PRECISCION INST. TECH. I	CHECKED: COLLIN MARK R. SALVADOR ENGINEER II	SUBMITTED: MARLON D. MAROLLANO CHIEF, PLANNING AND DESIGN SECTION	APPROVAL RECOMMENDED: RENULT G. RICARDO ASSISTANT DISTRICT ENGINEER	APPROVED: JAMES D. DELLOSA Lt. C. PA Res. DISTRICT ENGINEER	SHEET NO: 04 05
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WATER PROOFING ON DECK SLAB  
SCALE: 1:100 MTS.



CARBON FIBER SHEET BELOW DECK SLAB  
SCALE: 1:100 MTS.



CARBON FIBER SHEET DET.  
SCALE: 1:20 MTS.

<div>REPUBLIC OF THE PHILIPPINES</div> <div>DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS</div> <div>CEBU 4th DISTRICT ENG'G OFFICE</div> <div></div> <div>PLANNING &amp; DESIGN SECTION</div> <div>POBLACION, DALAGUETE, CEBU</div>	PROJECT TITLE / LOCATION:  RETROFITTING/STRENGTHENING OF LALAO BRIDGE (B00460CB) ALONG SANTANDER-BARILI-TOLEDO ROAD K0167+186  MALABUYOC, CEBU	SHEET CONTENTS:  WATER PROOFING ON DECK SLAB CARBON FIBER SHEET BELOW DECK SLAB CARBON FIBER SHEET DETAIL	CAD:	CHECKED:	SUBMITTED:	APPROVAL RECOMMENDED:	APPROVED:	SHEET NO:  05 05
			JOSEPH PRESLEY M. CABALLERO	COLLIN MARK R. SALVADOR	MARLON D. MAROLLANO	RENULT G. RICARDO	JAMES D. DELLOSA Lt. C. PA Res.	
			PRECISION INST. TECH. I	ENGINEER II	CHIEF, PLANNING AND DESIGN SECTION	ASSISTANT DISTRICT ENGINEER	DISTRICT ENGINEER	