



REPUBLIC OF THE PHILIPPINES
CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
NAIA ROAD, 1500 PASAY CITY

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CAAP

AERODROME DEVELOPMENT
AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN
DIVISION

DESIGN STAFF:	INITIAL / DATE
DESIGNED BY:	IDDD
DRAWN BY:	CJLDC <i>gus</i>
CHECKED BY:	

REVIEWED BY:

RAUL R. CRUCENA
Division Chief III, IDDD-AED

SUBMITTED BY:

ARNEL F. BORLADO
Department Manager III, AED-ADMS

RECOMMEND APPROVAL:

LT COL VALENTINO A DIONELA PAF (RET)
ADG II, ADMS

APPROVED BY:

CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

CONCURRED BY:

CAPTAIN JIM C. CYDIONGCO
Undersecretary for Aviation and Airports

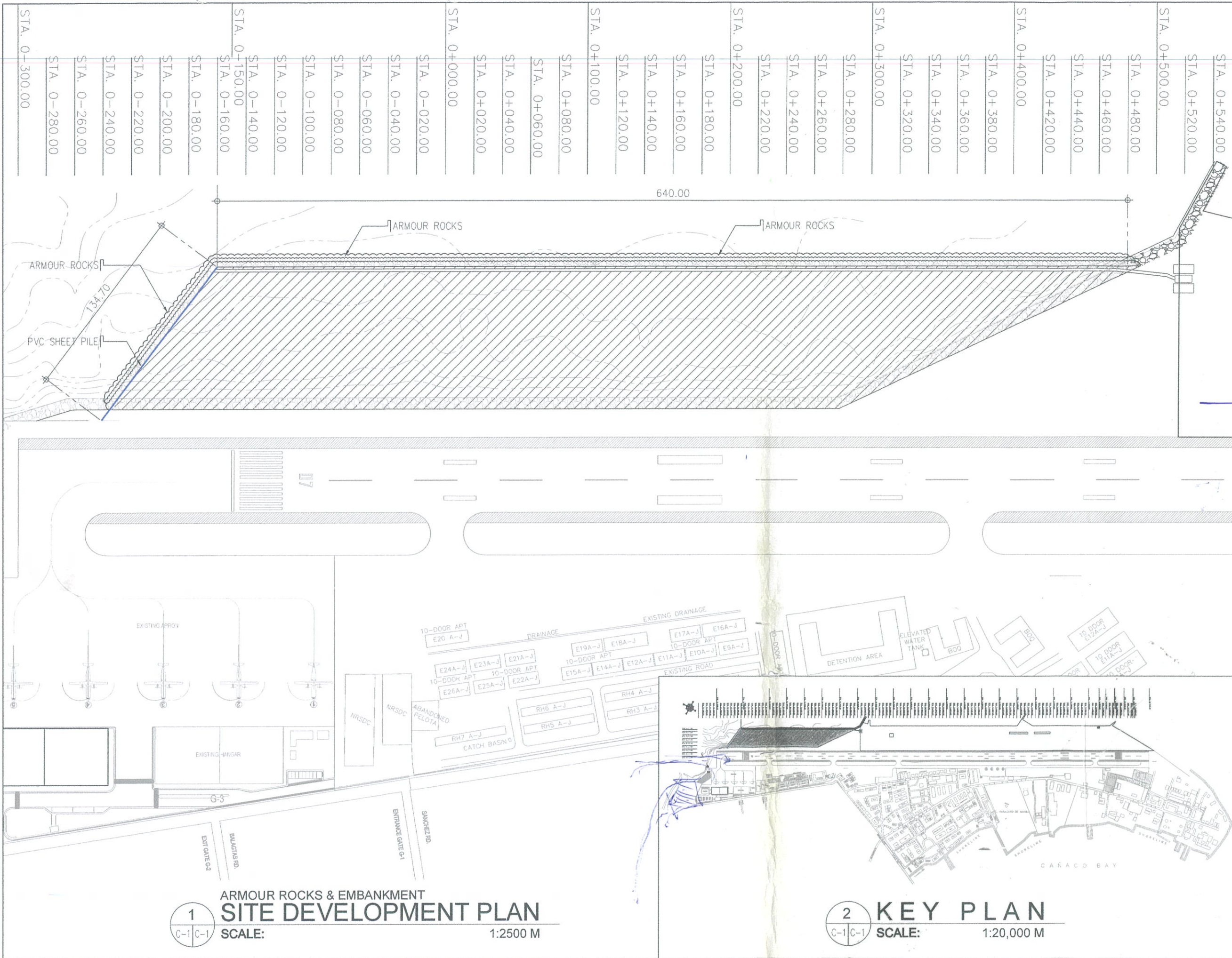
NOTES/REVISIONS:

PROJECT:
EMERGENCY REPAIR OF
DAMAGES ON THE SHORE
PROTECTION CAUSED BY
TYPHOON CARINA

LOCATION:
SANGLEY AIRPORT
SAN ANTONIO, SANGLEY POINT,
CAVITE CITY, CAVITE

SHEET CONTENTS:
• SITE DEVELOPMENT PLAN
• KEY PLAN

DRAWING SCALE:	SHEET NO.
AS SHOWN	C-1





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PROTECTION CAUSED BY
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LOCATION:

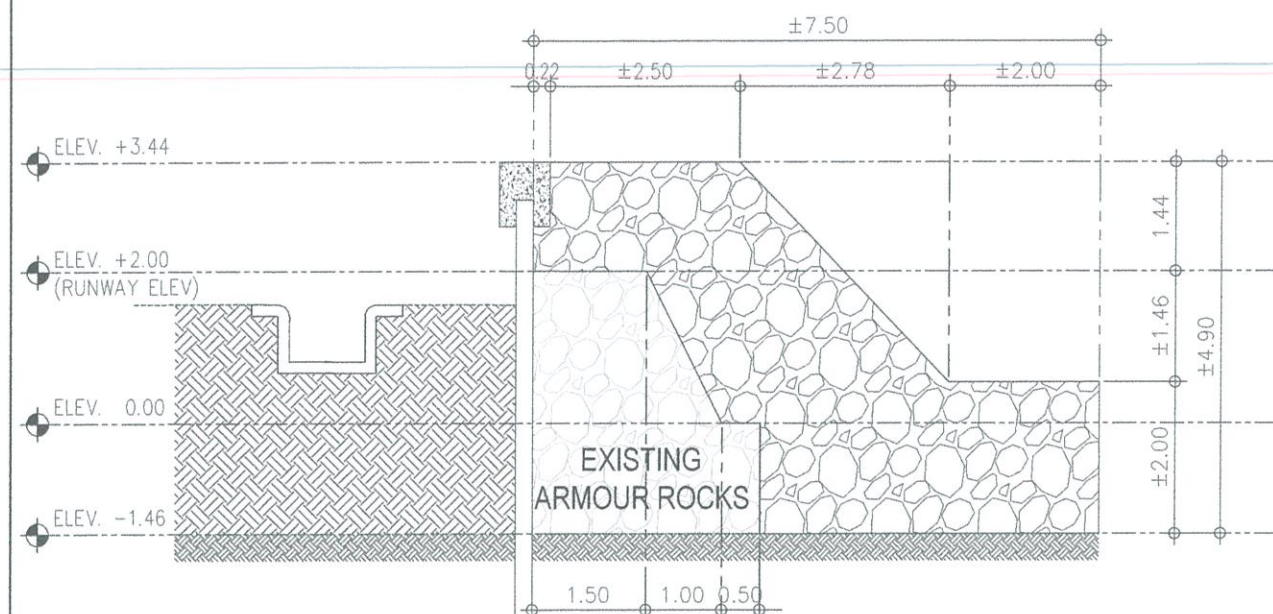
SANGLEY AIRPORT
SAN ANTONIO, SANGLEY POINT,
CAVITE CITY, CAVITE

SHEET CONTENTS:

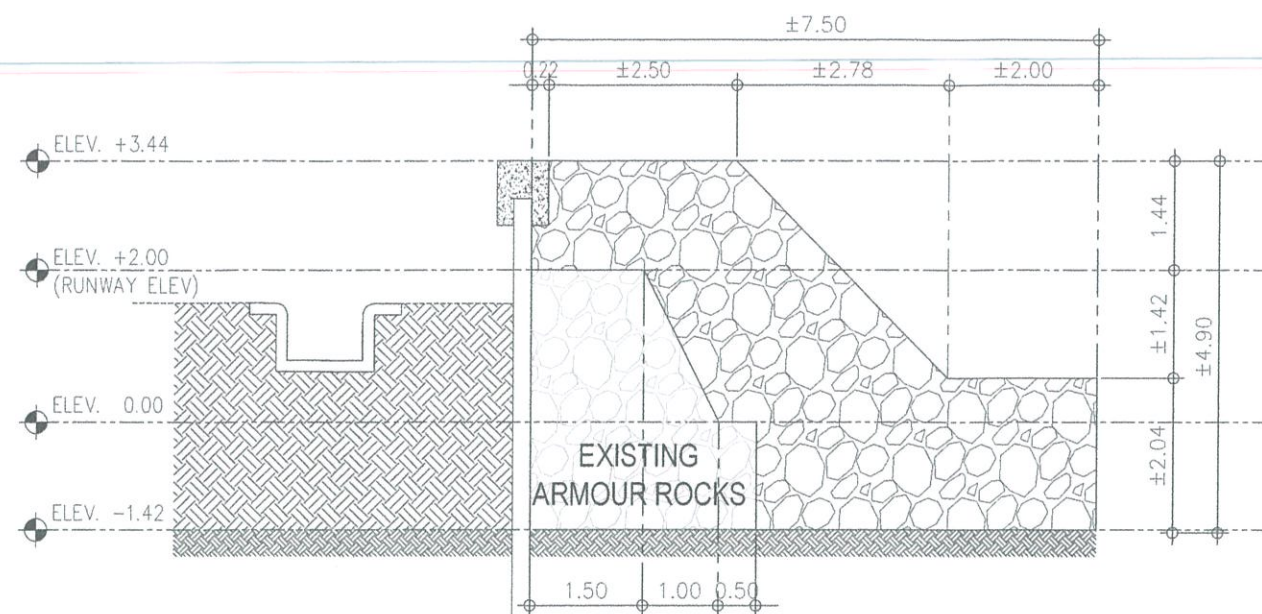
ARMOUR ROCKS SECTION:

- @ STA. 0 - 240
- @ STA. 0 - 220
- @ STA. 0 - 200
- @ STA. 0 - 180

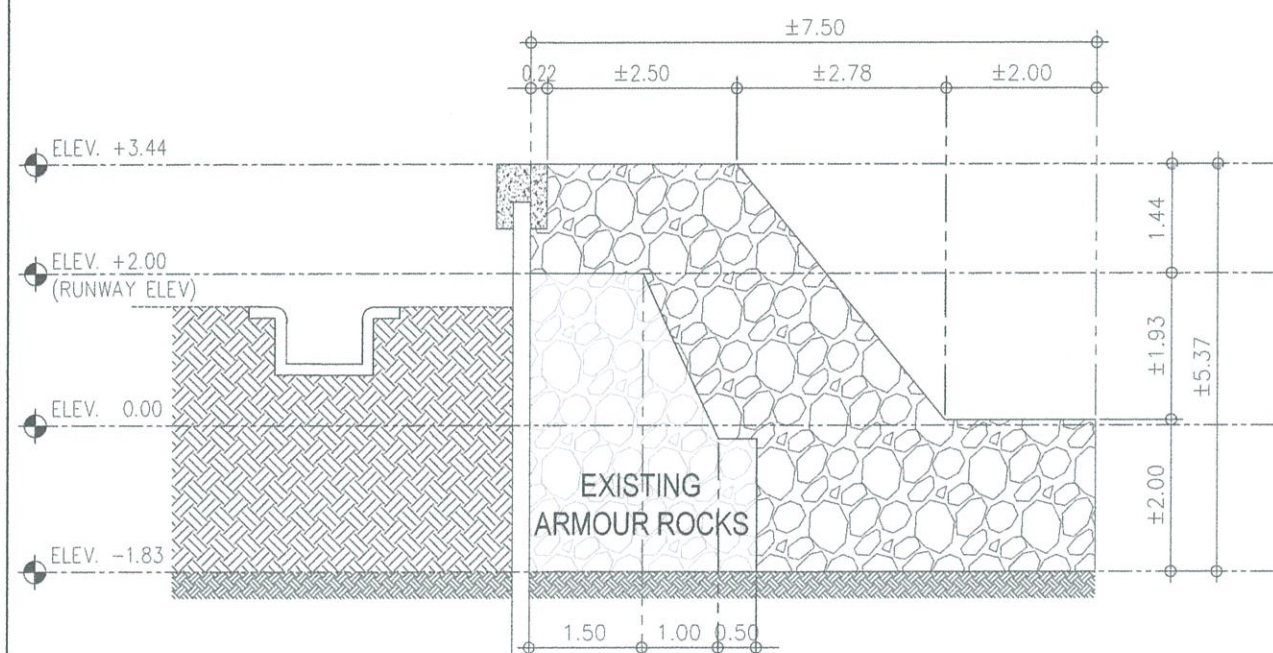
DRAWING SCALE	SHEET NO.
1:100 M	C-2



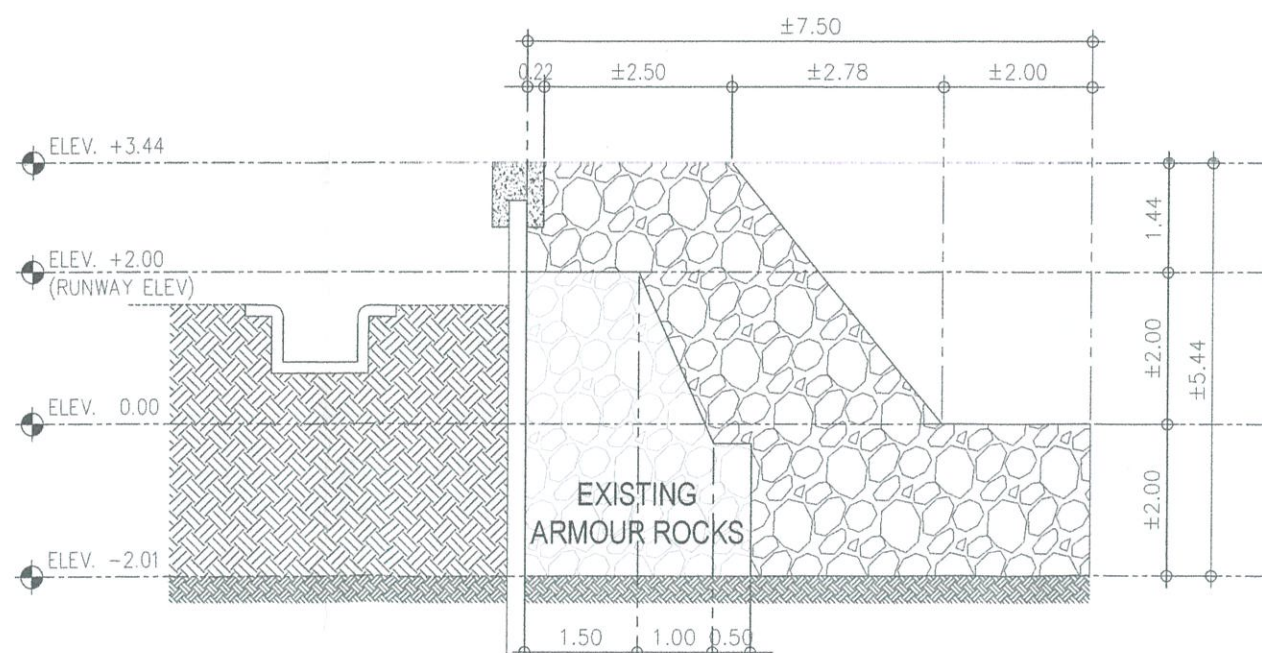
1
C-2 C-2
ARMOUR ROCKS @ STA. 0-240
DETAILED SECTION
SCALE: 1:100 M



2
C-2 C-2
ARMOUR ROCKS @ STA. 0-220
DETAILED SECTION
SCALE: 1:100 M



3
C-2 C-2
ARMOUR ROCKS @ STA. 0-200
DETAILED SECTION
SCALE: 1:100 M



4
C-2 C-2
ARMOUR ROCKS @ STA. 0-180
DETAILED SECTION
SCALE: 1:100 M

DESIGN STAFF:	INITIAL / DATE
DESIGNED BY:	IDDD
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Undersecretary for Aviation and Airports

NOTES/REVISIONS:

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EMERGENCY REPAIR OF DAMAGES ON THE SHORE PROTECTION CAUSED BY TYPHOON CARINA

LOCATION:

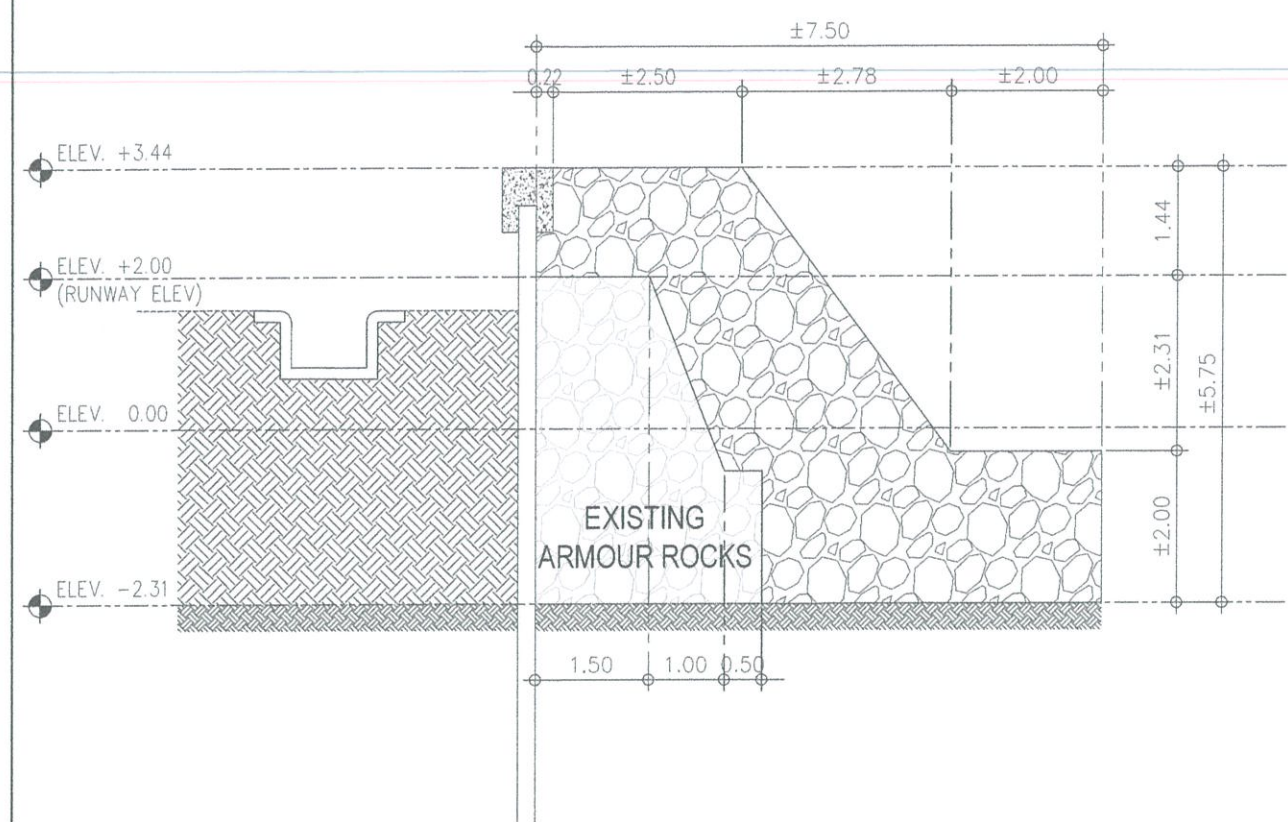
SANGLEY AIRPORT
SAN ANTONIO, SANGLEY POINT,
CAVITE CITY, CAVITE

SHEET CONTENTS:

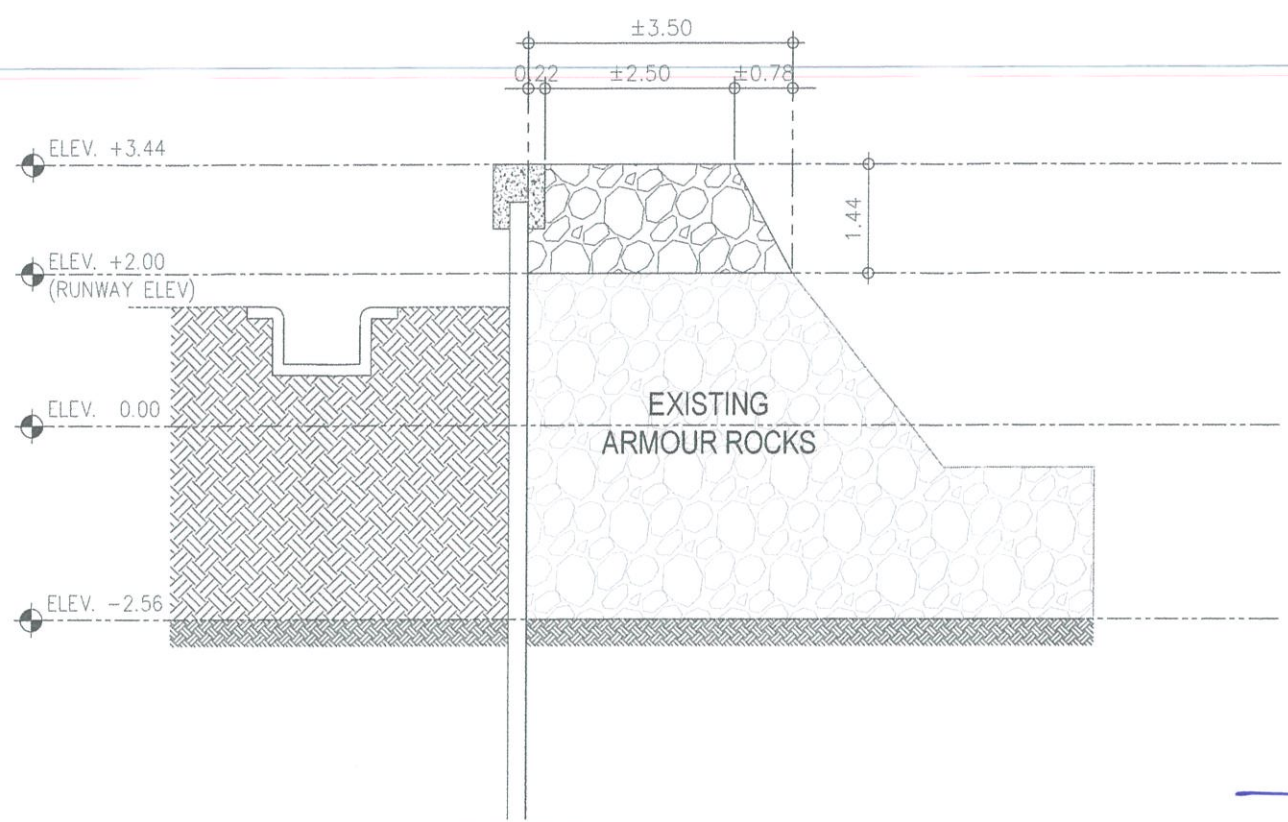
ARMOUR ROCKS SECTION:

- @ STA. 0 - 160a
- @ STA. 0 - 160b
- @ STA. 0 - 140
- @ STA. 0 - 120

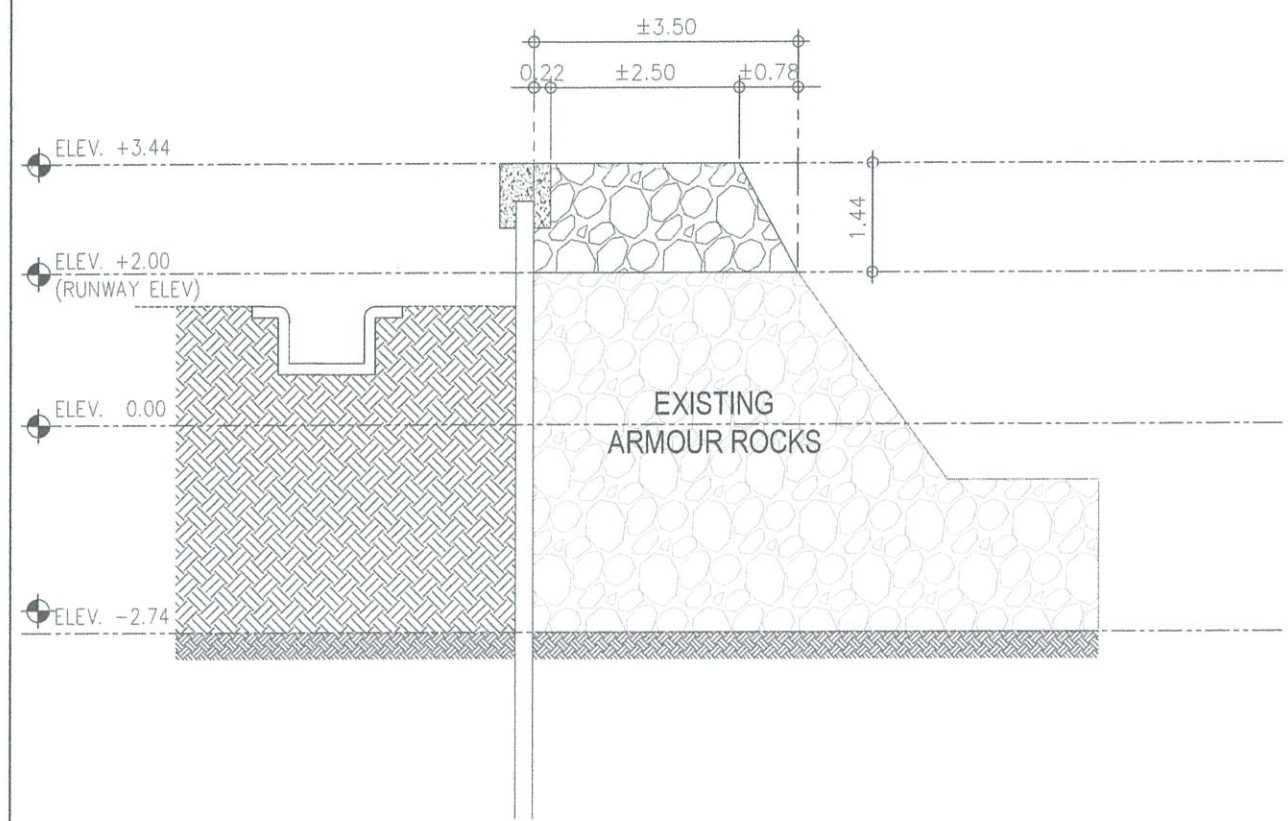
DRAWING SCALE:	SHEET NO:
1:100 M	C-3



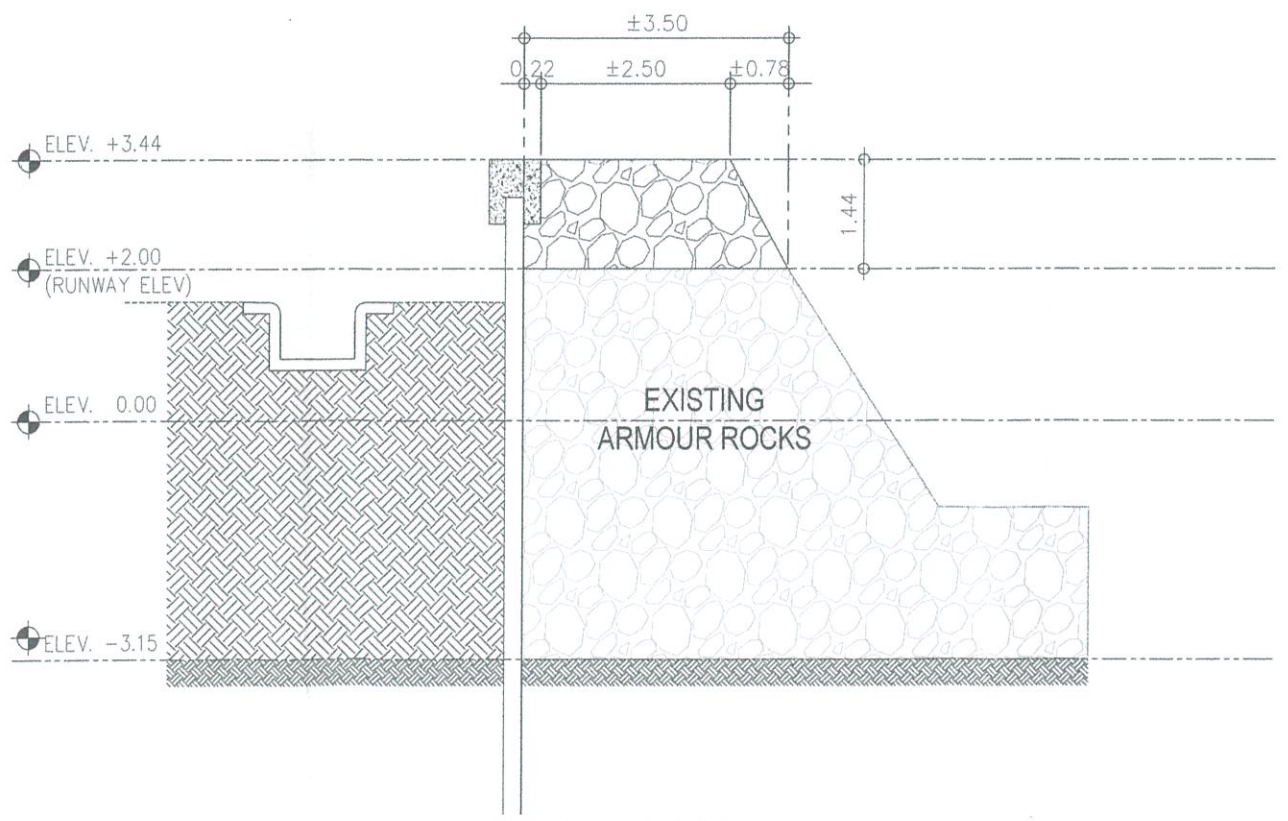
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C-3 C-3
ARMOUR ROCKS @ STA. 0-160a
DETAILED SECTION
SCALE: 1:100 M



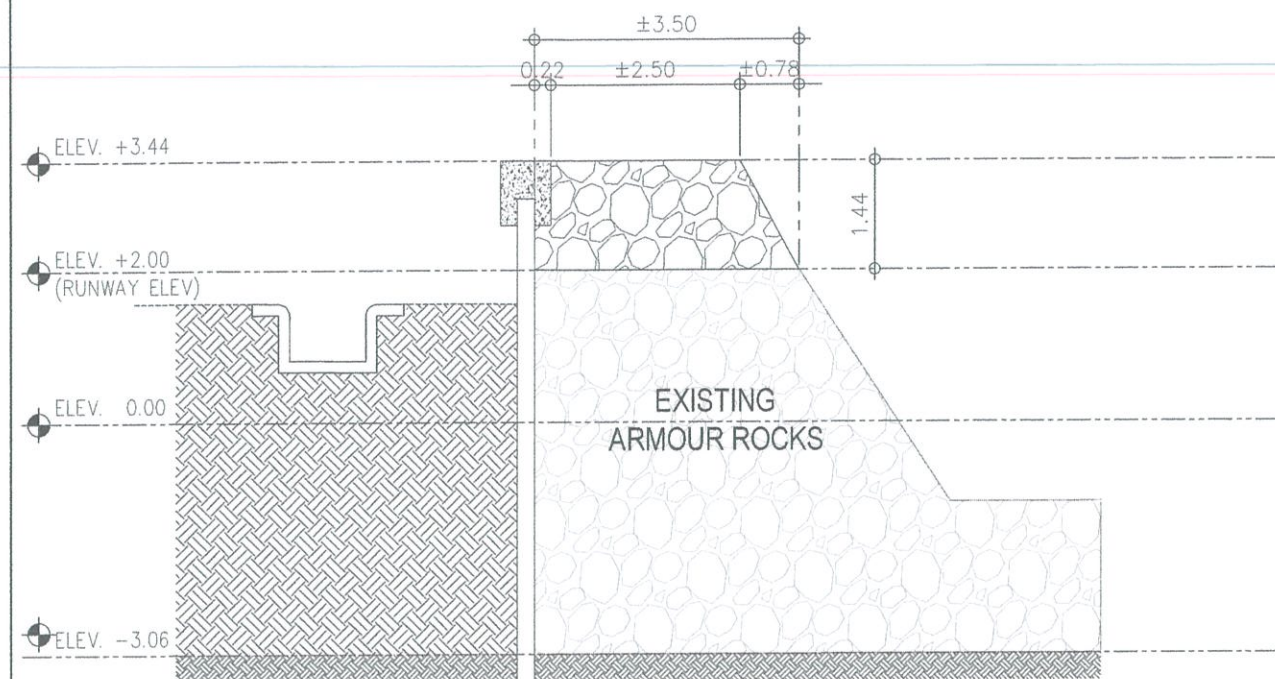
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C-3 C-3
ARMOUR ROCKS @ STA. 0-160b
DETAILED SECTION
SCALE: 1:100 M



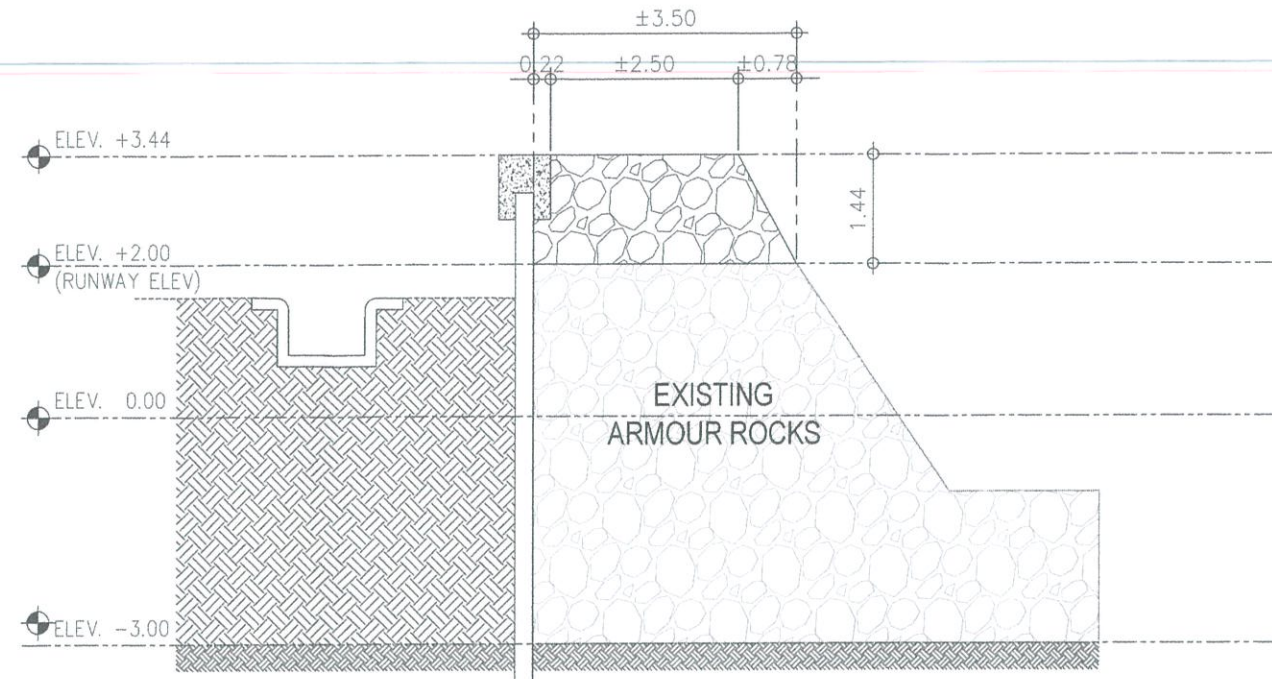
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C-3 C-3
ARMOUR ROCKS @ STA. 0-140
DETAILED SECTION
SCALE: 1:100 M



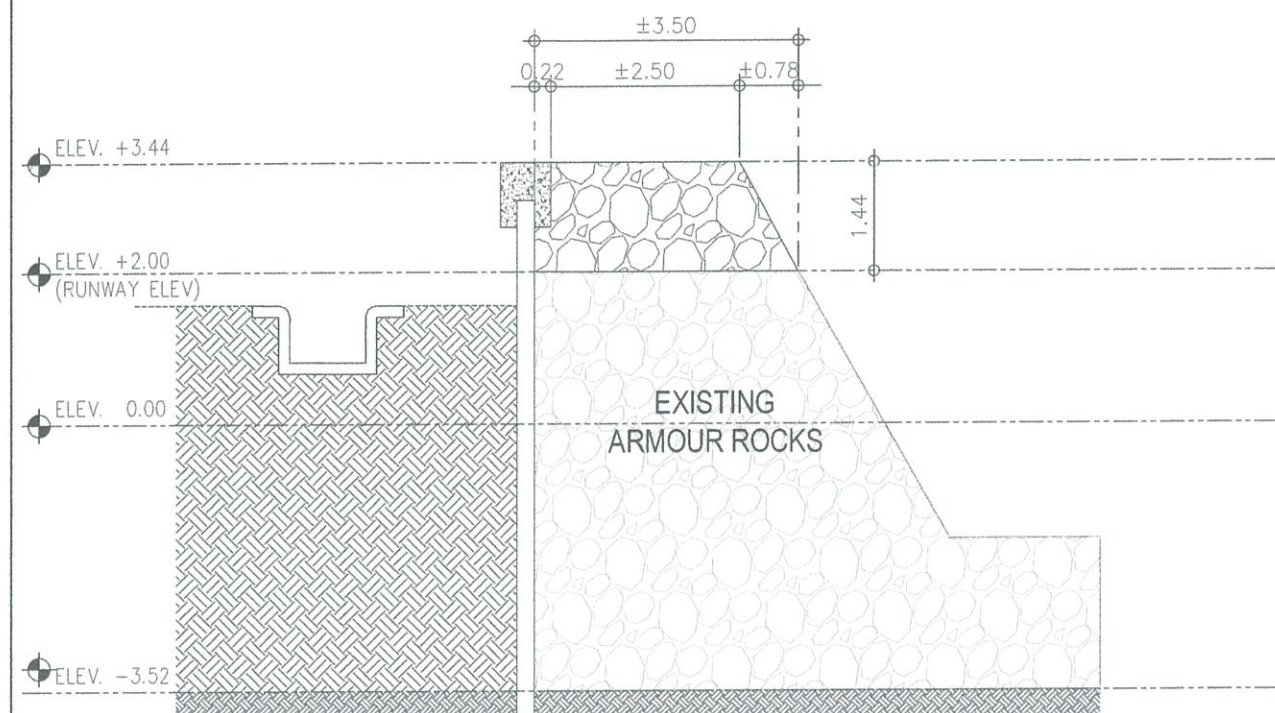
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C-3 C-3
ARMOUR ROCKS @ STA. 0-120
DETAILED SECTION
SCALE: 1:100 M



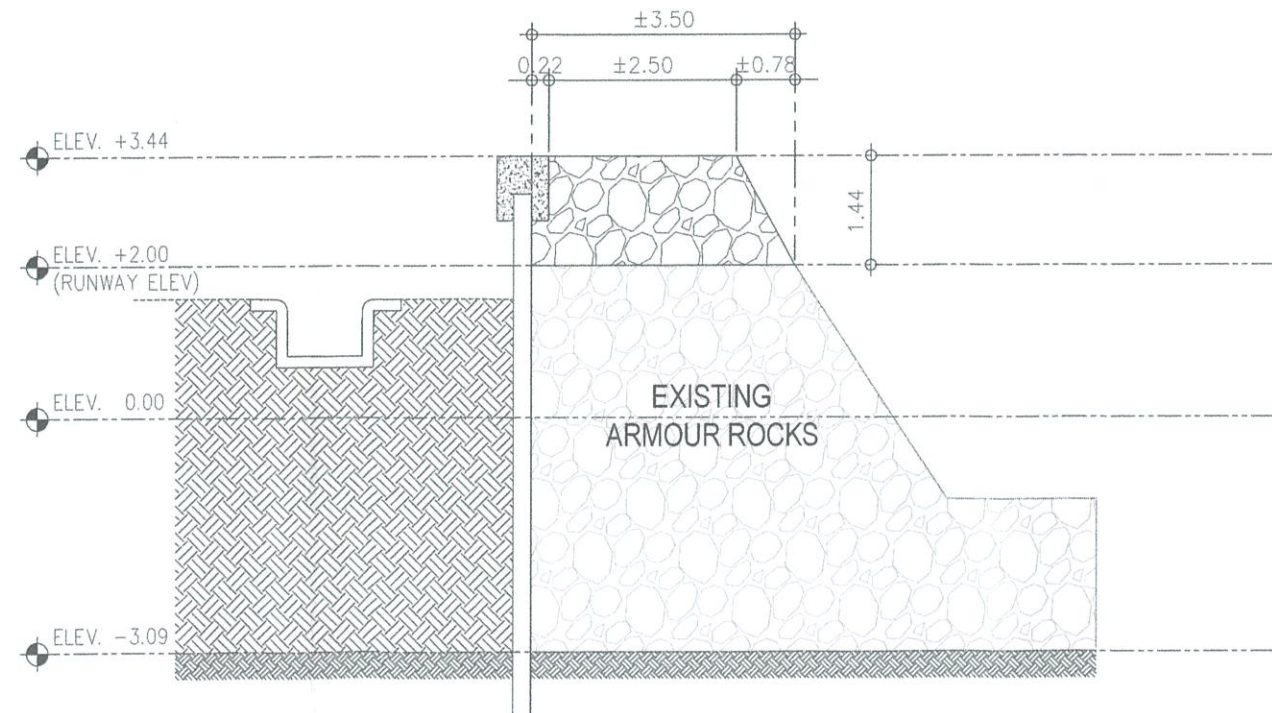
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C-4 C-4
ARMOUR ROCKS @ STA. 0-100
DETAILED SECTION
SCALE: 1:100 M



2
C-4 C-4
ARMOUR ROCKS @ STA. 0-080
DETAILED SECTION
SCALE: 1:100 M



3
C-4 C-4
ARMOUR ROCKS @ STA. 0-060
DETAILED SECTION
SCALE: 1:100 M



4
C-4 C-4
ARMOUR ROCKS @ STA. 0-040
DETAILED SECTION
SCALE: 1:100 M



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AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN
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DRAWN BY:	CJLDC <i>[Signature]</i>
CHECKED BY:	

REVIEWED BY:

[Signature]
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[Signature]
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ADG II, ADMS

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Director General

CONCURRED BY:
[Signature]
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Undersecretary for Aviation and Airports

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PROJECT:
EMERGENCY REPAIR OF
DAMAGES ON THE SHORE
PROTECTION CAUSED BY
TYPHOON CARINA

LOCATION:
SANGLEY AIRPORT
SAN ANTONIO, SANGLEY POINT,
CAVITE CITY, CAVITE

SHEET CONTENTS:
ARMOUR ROCKS SECTION:
• @ STA. 0 - 100
• @ STA. 0 - 080
• @ STA. 0 - 060
• @ STA. 0 - 040

DRAWING SCALE	SHEET NO.
1:100 M	C-4



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Undersecretary for Aviation and Airports

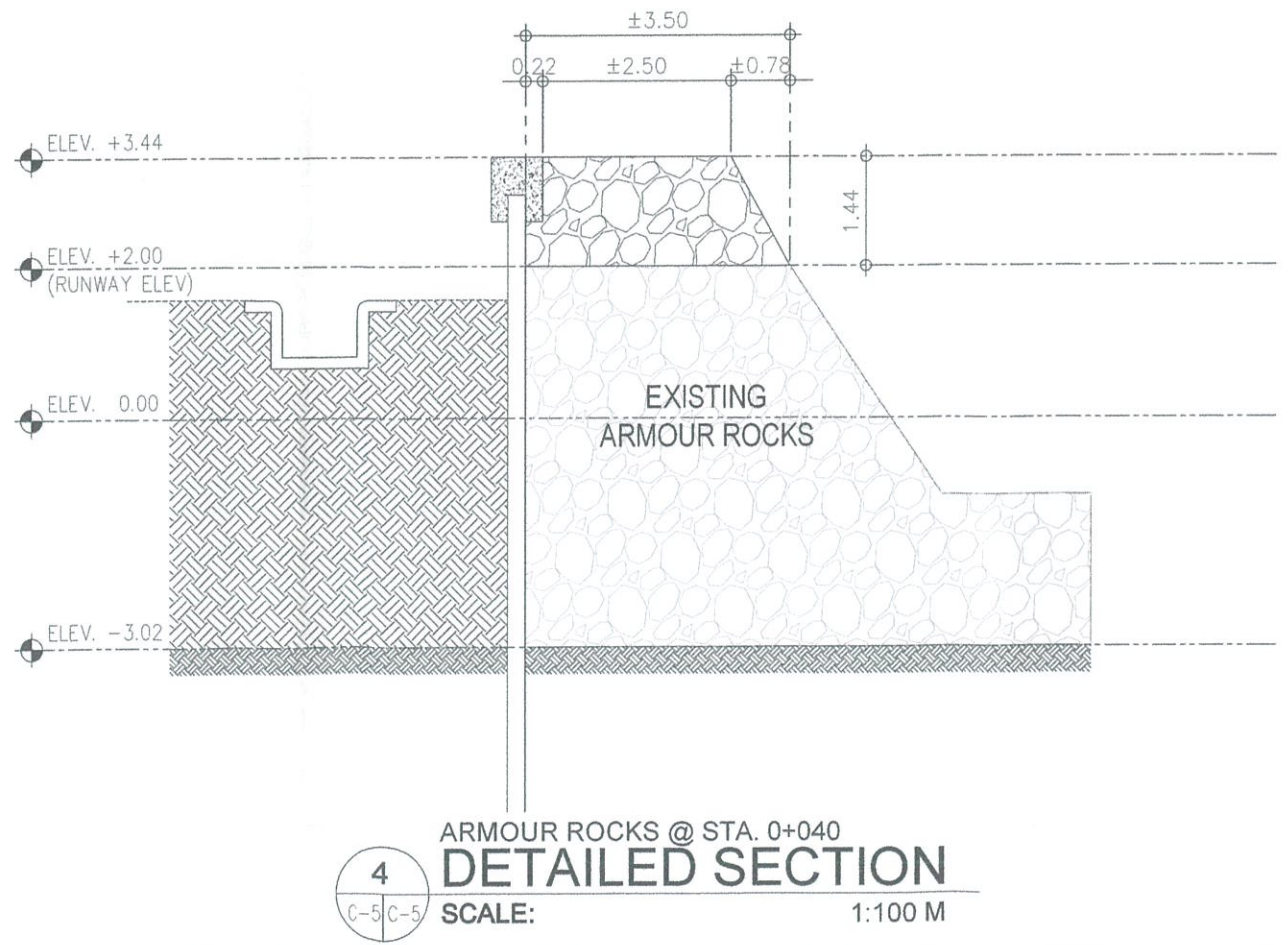
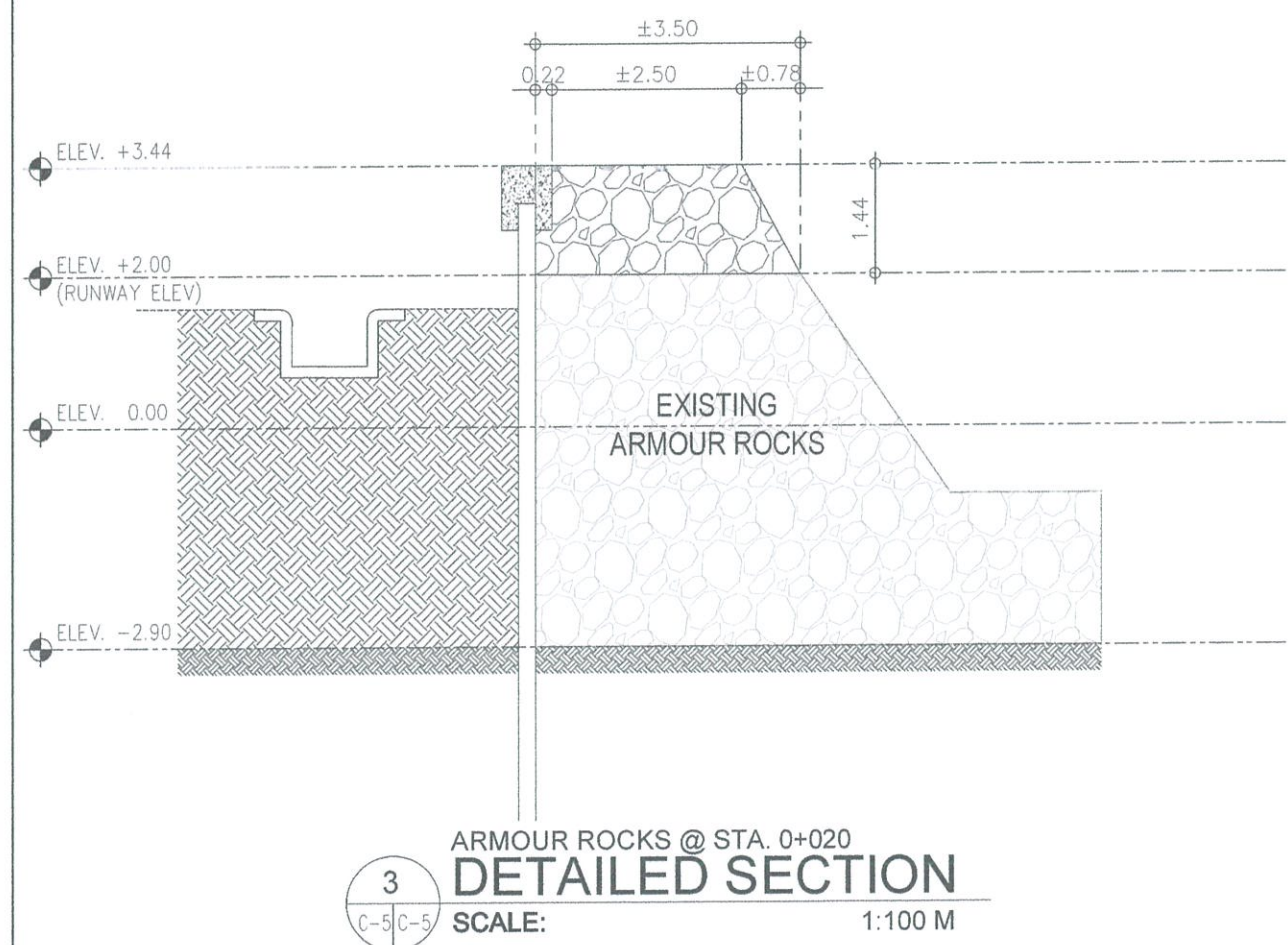
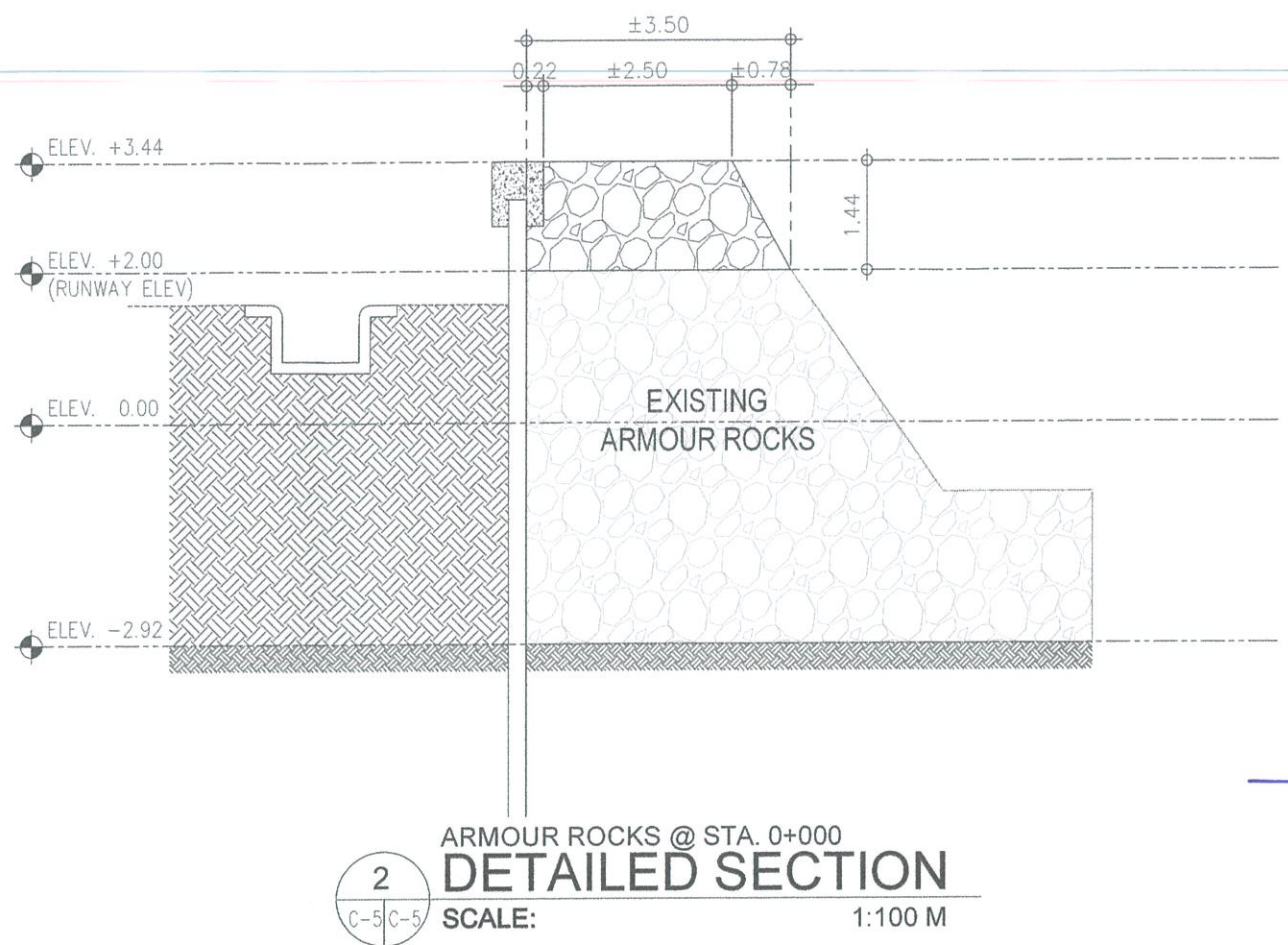
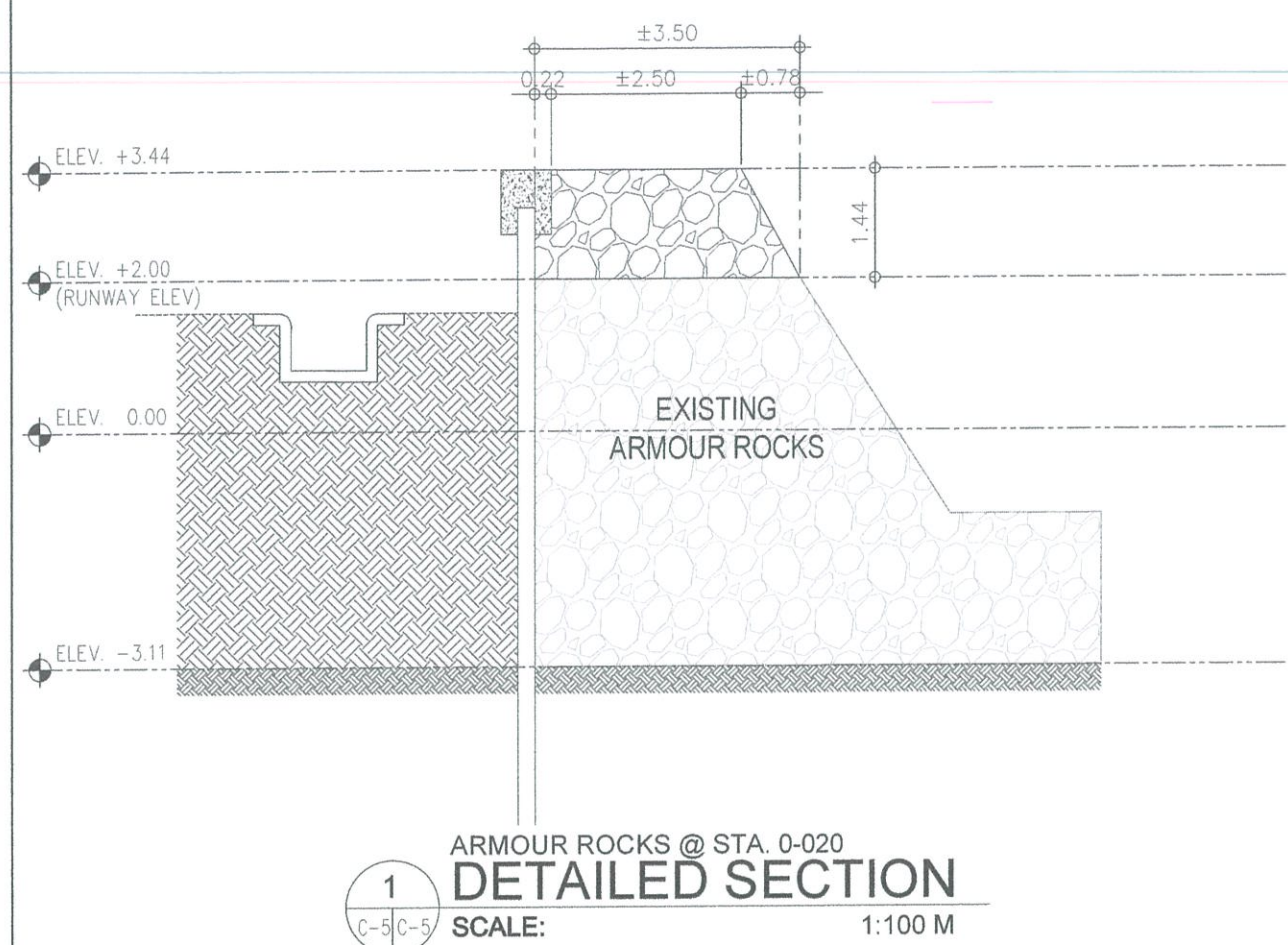
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EMERGENCY REPAIR OF
DAMAGES ON THE SHORE
PROTECTION CAUSED BY
TYPHOON CARINA

LOCATION:
SANGLEY AIRPORT
SAN ANTONIO, SANGLEY POINT,
CAVITE CITY, CAVITE

SHEET CONTENTS:
ARMOUR ROCKS SECTION:
• @ STA. 0 - 020
• @ STA. 0 + 000
• @ STA. 0 + 020
• @ STA. 0 + 040

DRAWING SCALE:	SHEET NO:
1:100 M	C-5



DESIGN STAFF:	INITIAL / DATE
DESIGNED BY:	IDDD
DRAWN BY:	CJLDC 96
CHECKED BY:	

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RAUL R. CRUCENA
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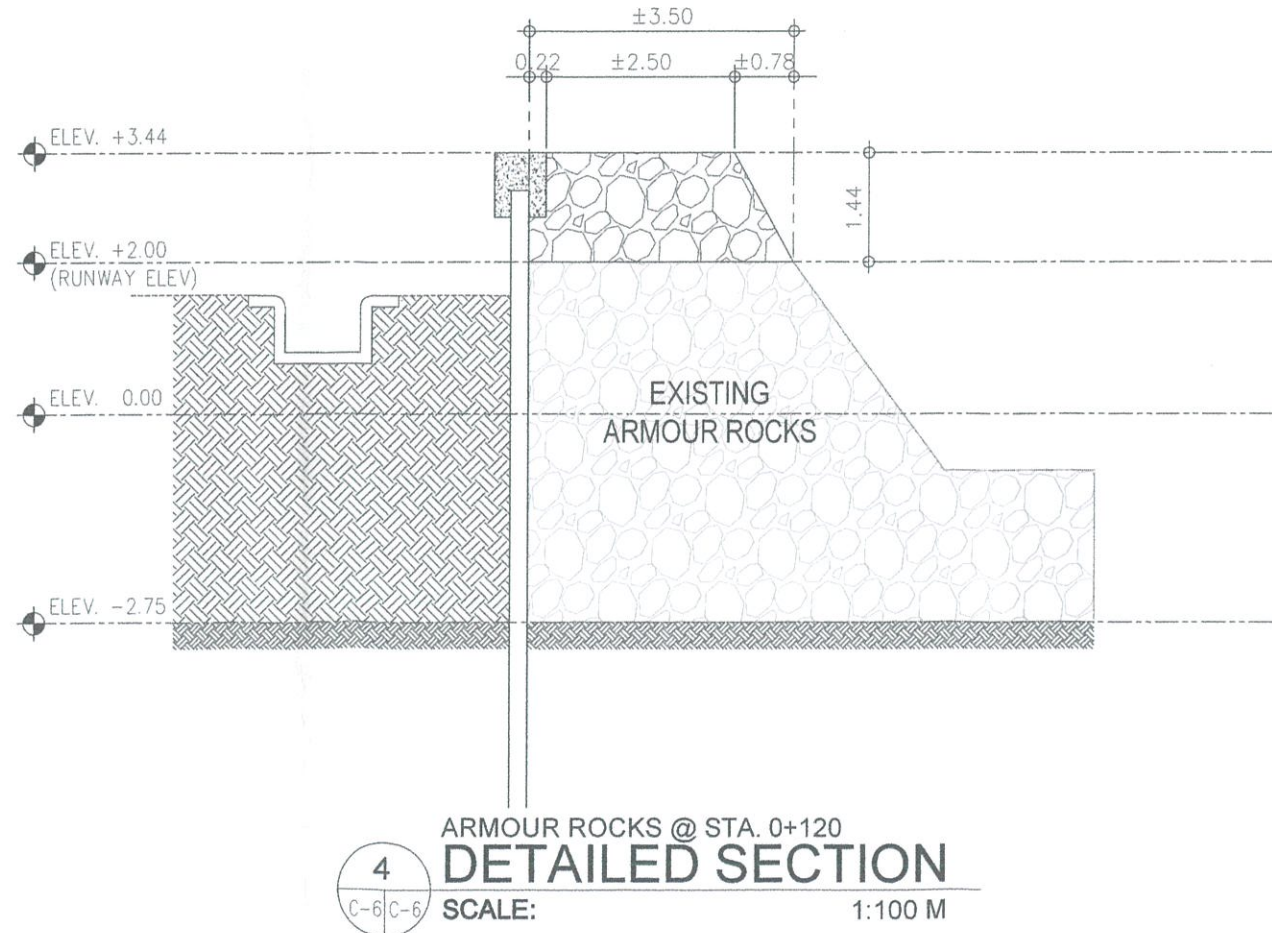
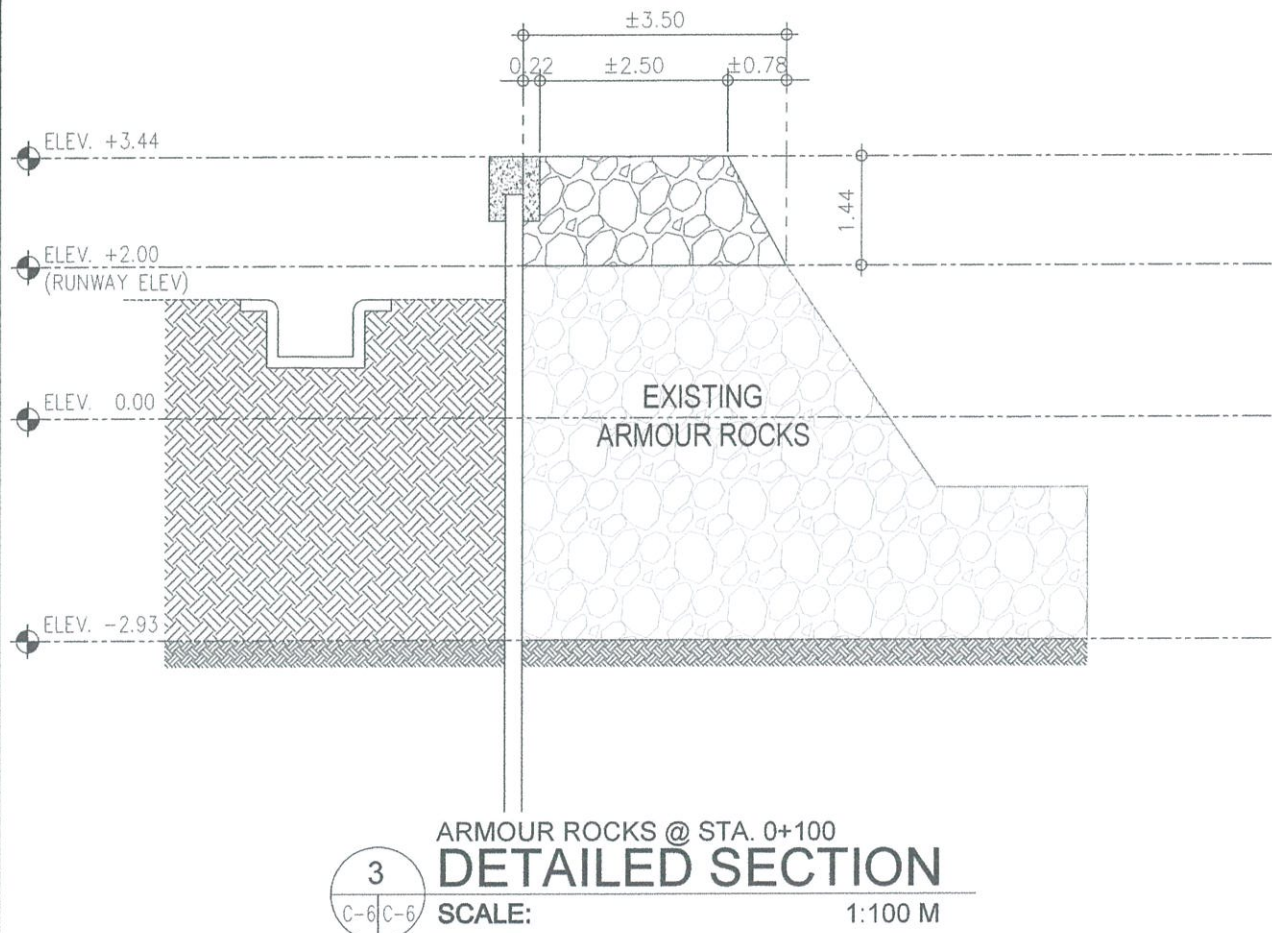
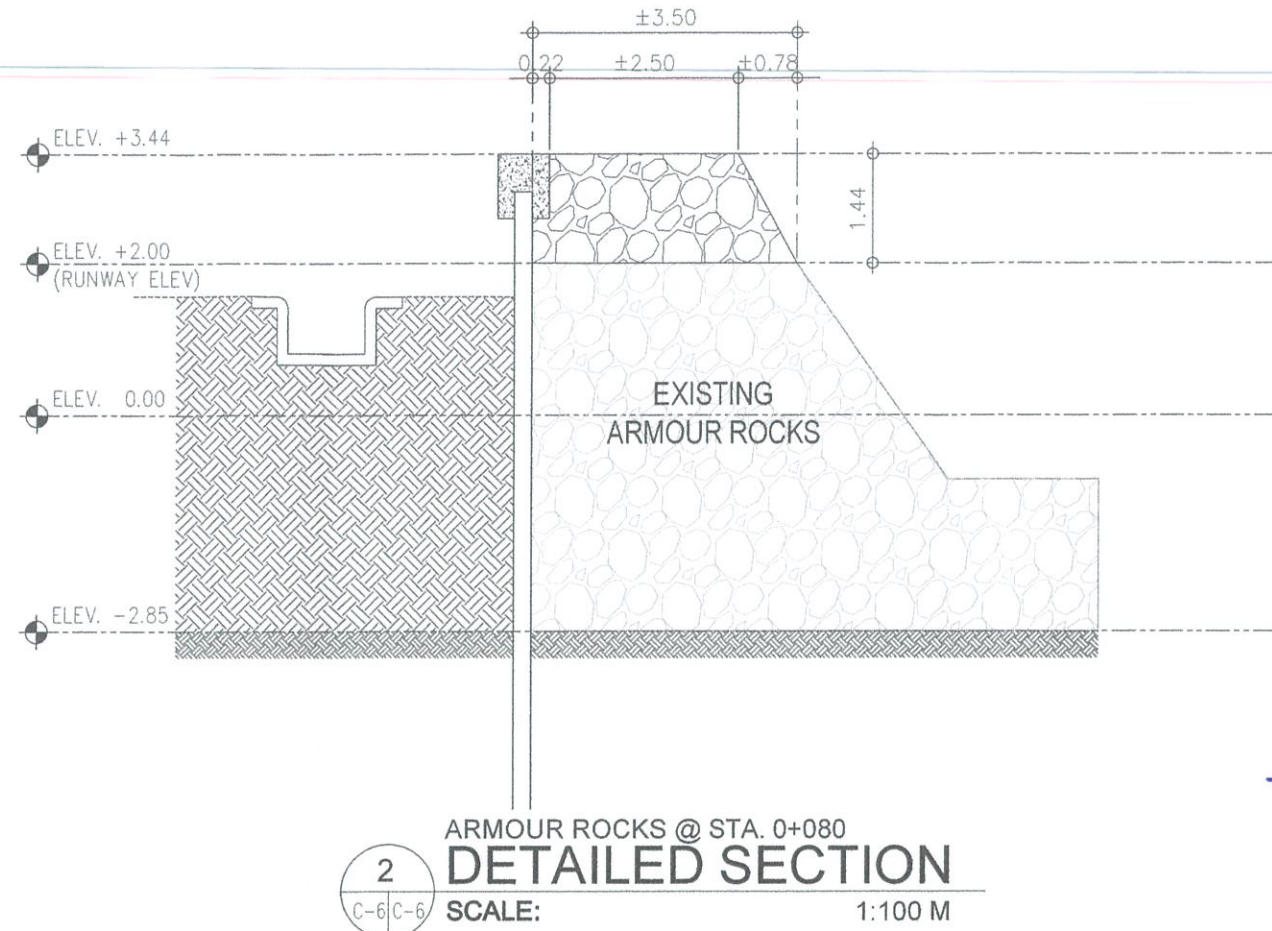
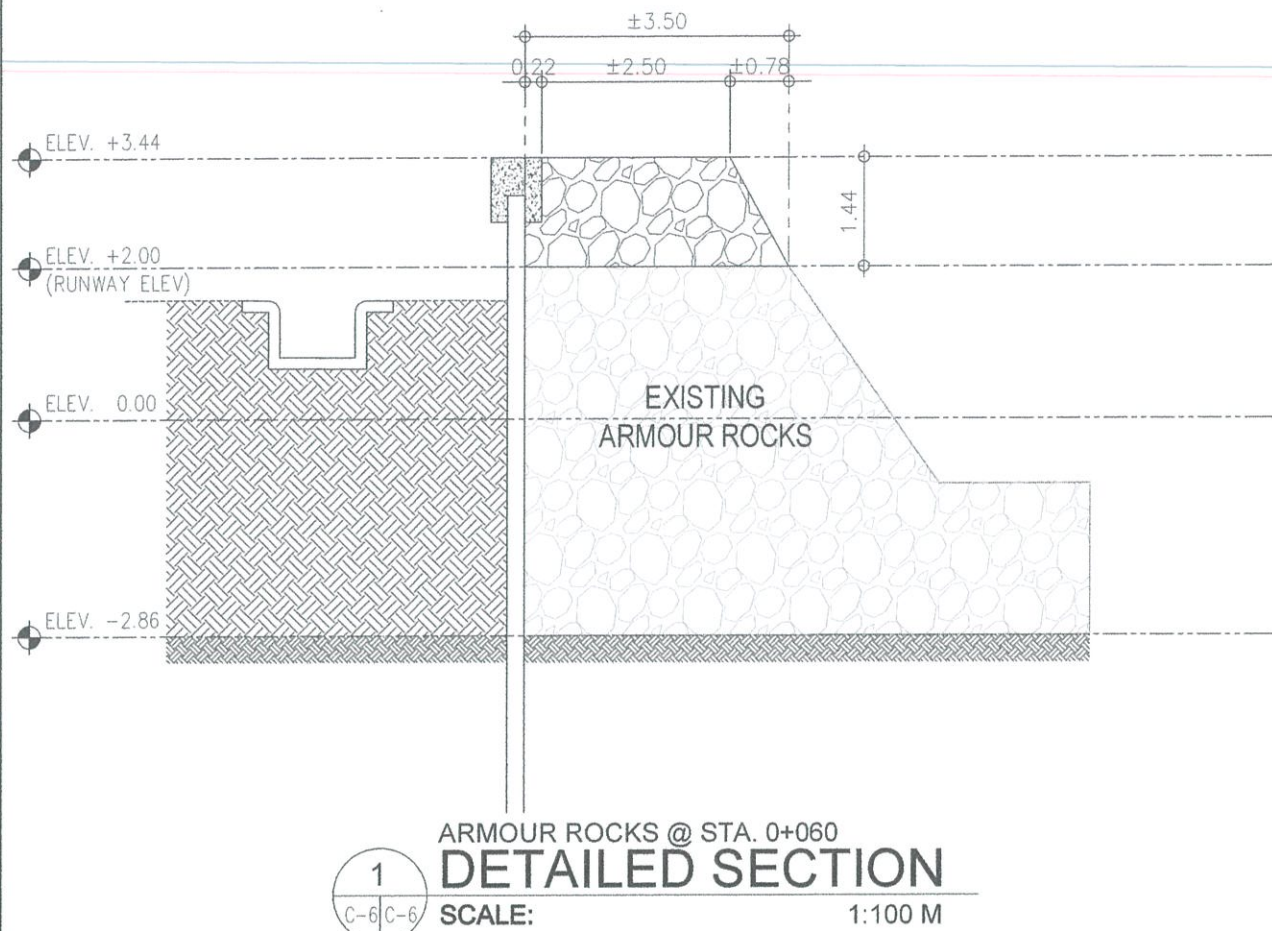
NOTES/REVISIONS:

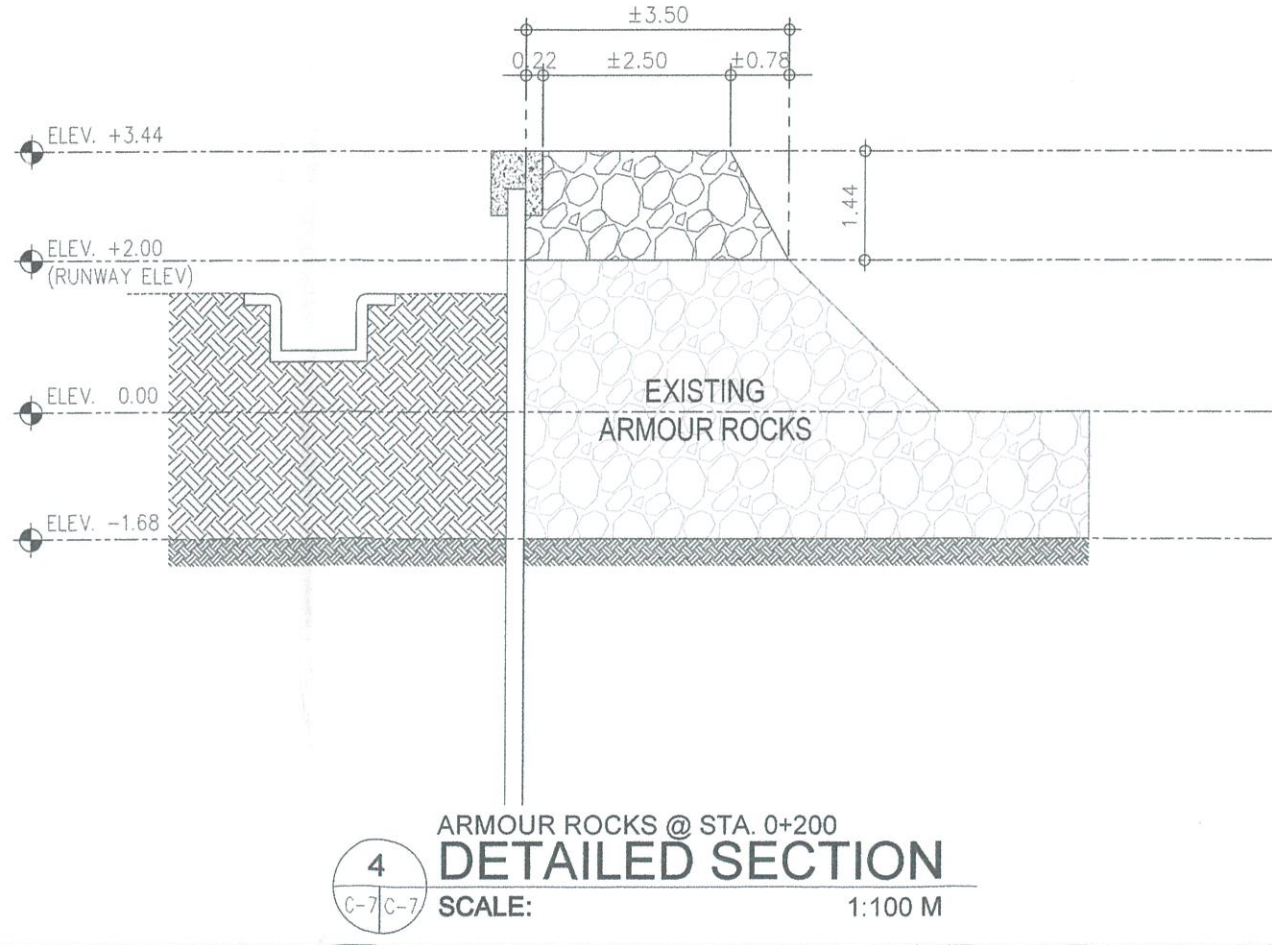
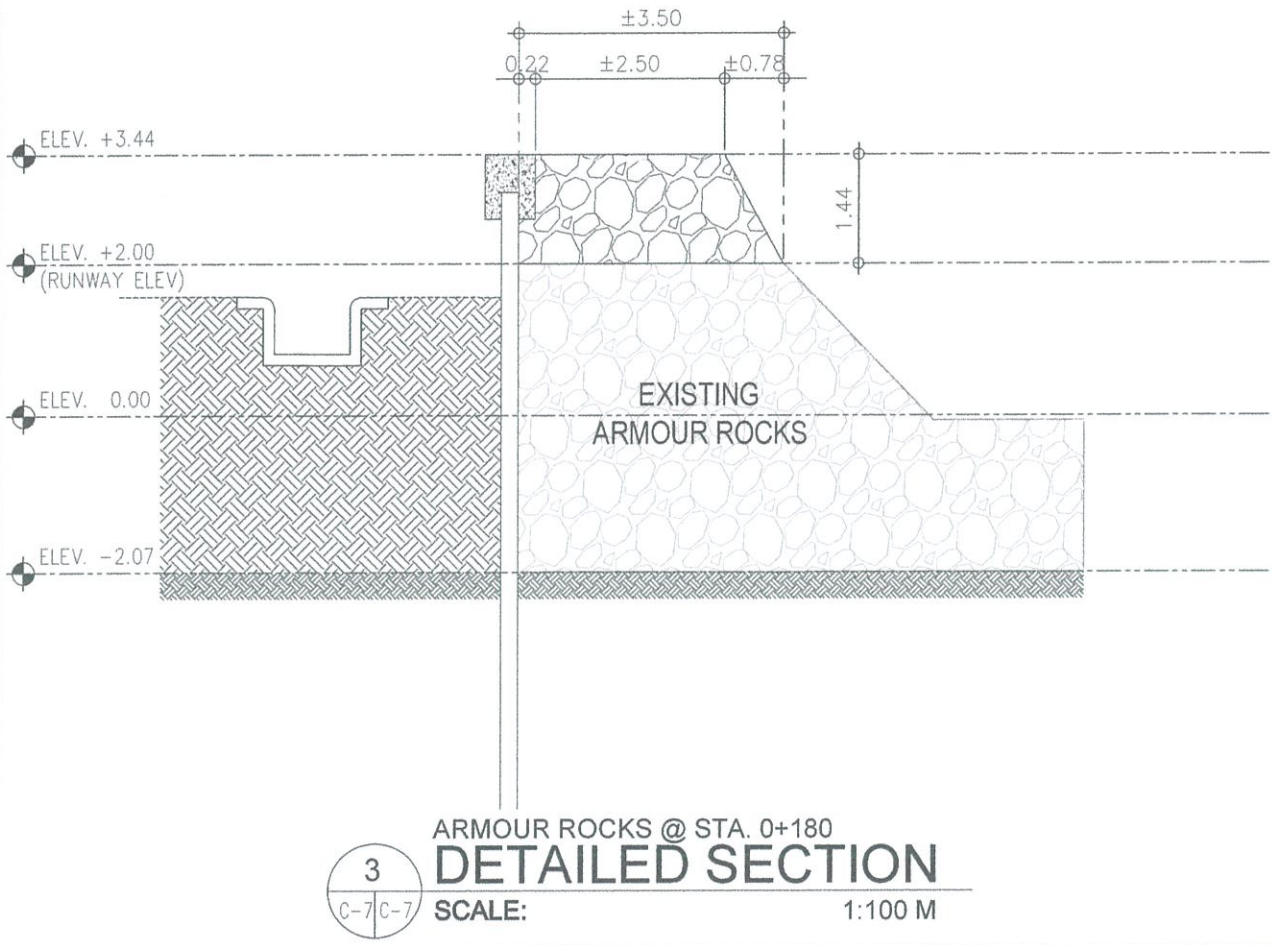
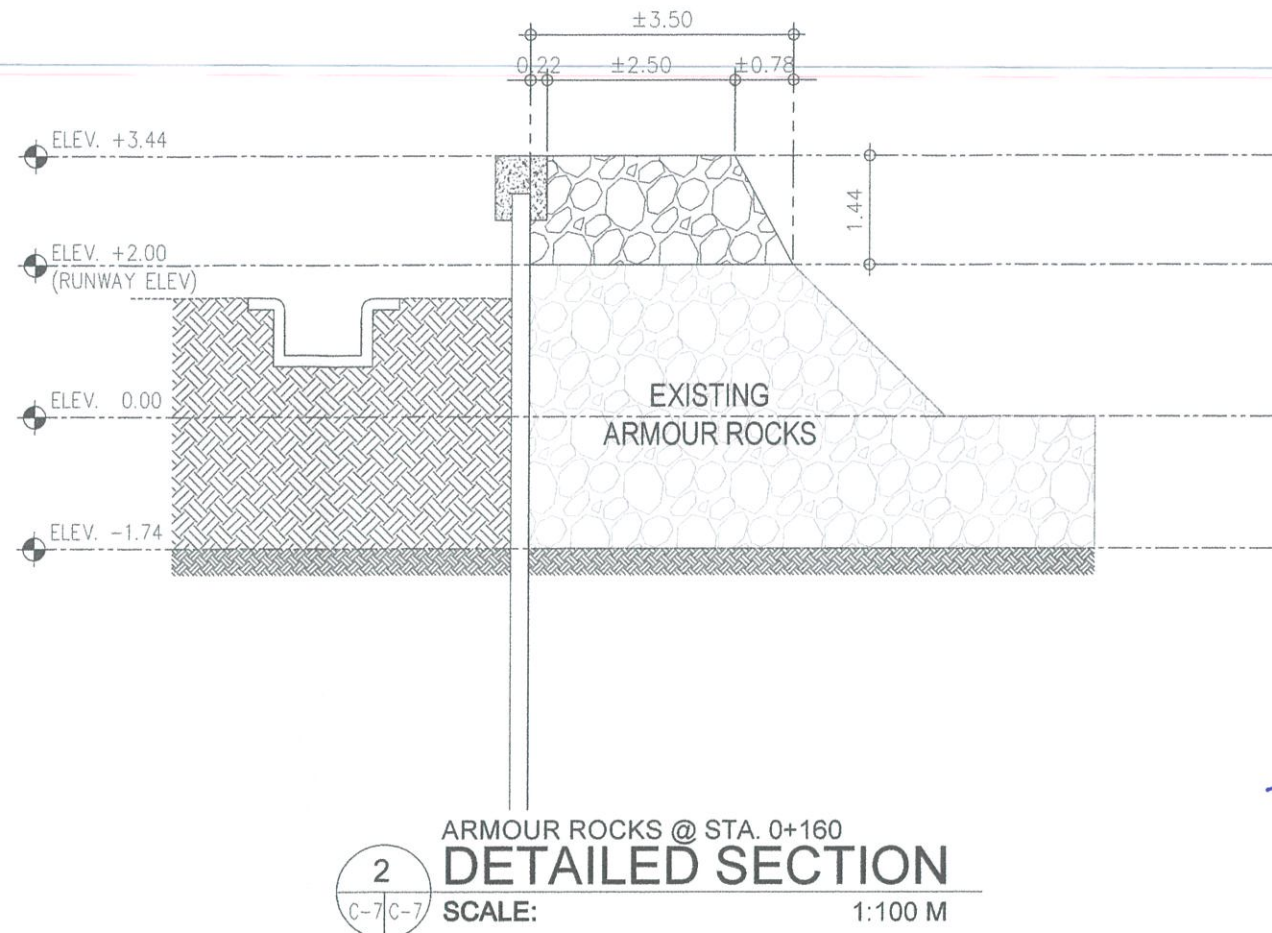
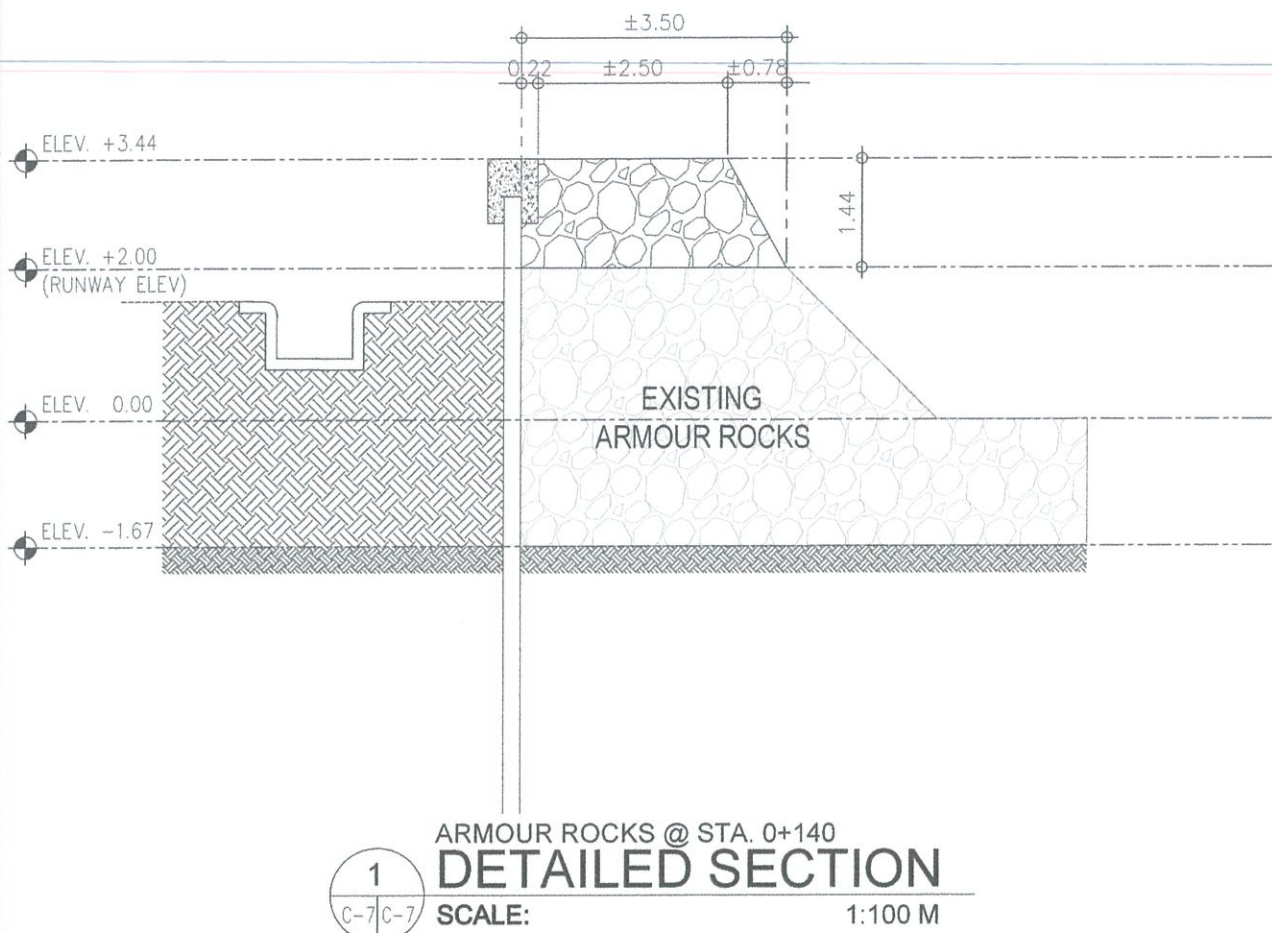
PROJECT:
EMERGENCY REPAIR OF DAMAGES ON THE SHORE PROTECTION CAUSED BY TYPHOON CARINA

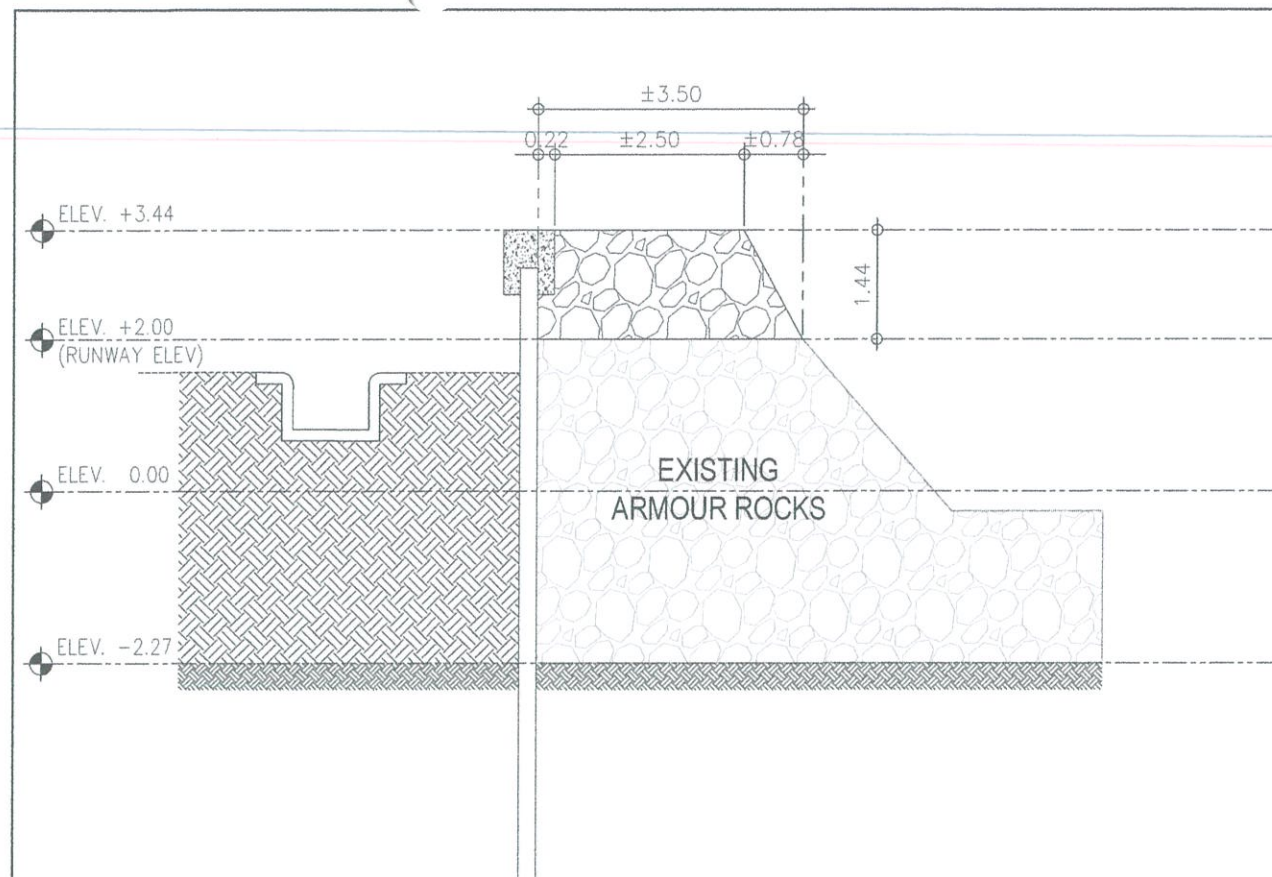
LOCATION:
SANGLEY AIRPORT
SAN ANTONIO, SANGLEY POINT,
CAVITE CITY, CAVITE

SHEET CONTENTS:
ARMOUR ROCKS SECTION:
• @ STA. 0 + 060
• @ STA. 0 + 080
• @ STA. 0 + 100
• @ STA. 0 + 120

DRAWING SCALE:	SHEET NO.
1:100 M	C-6

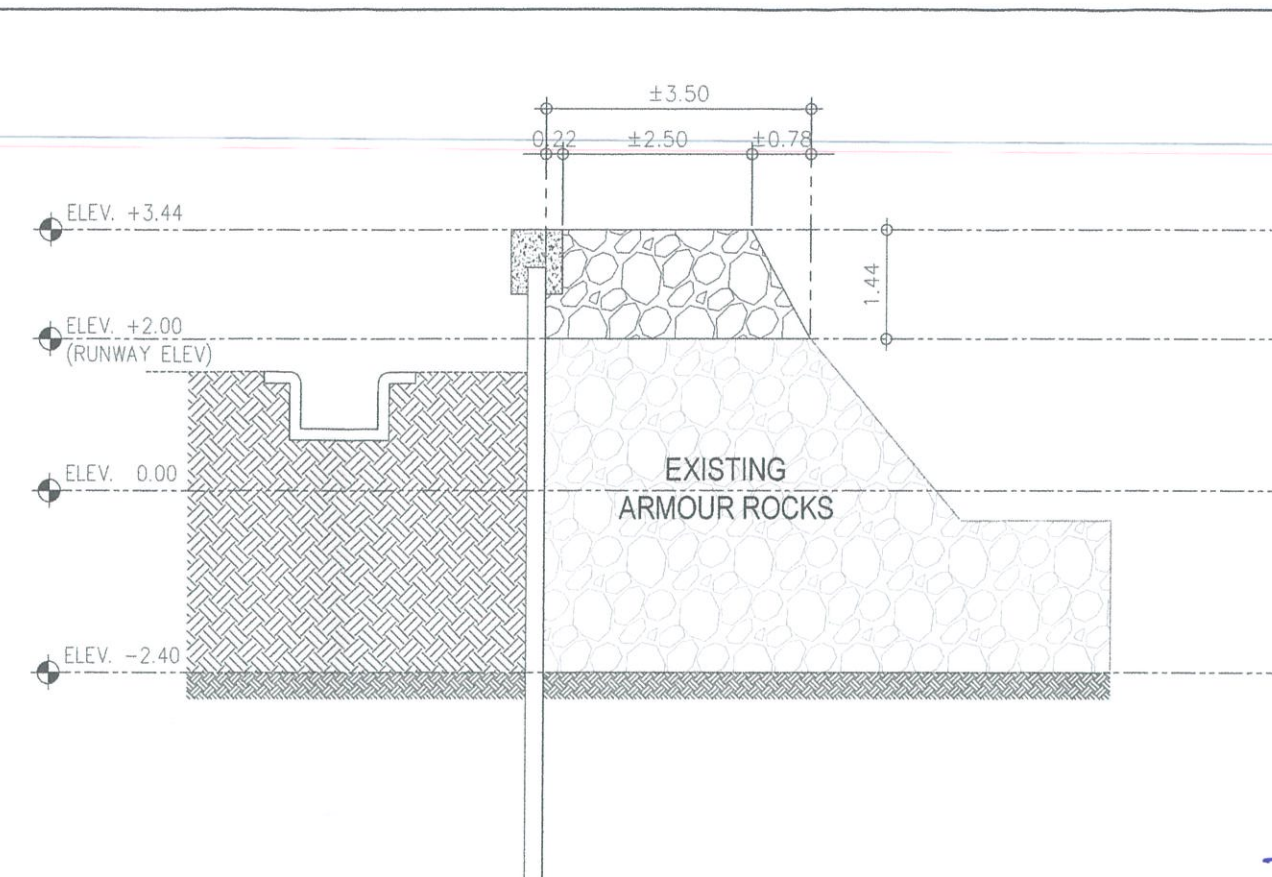






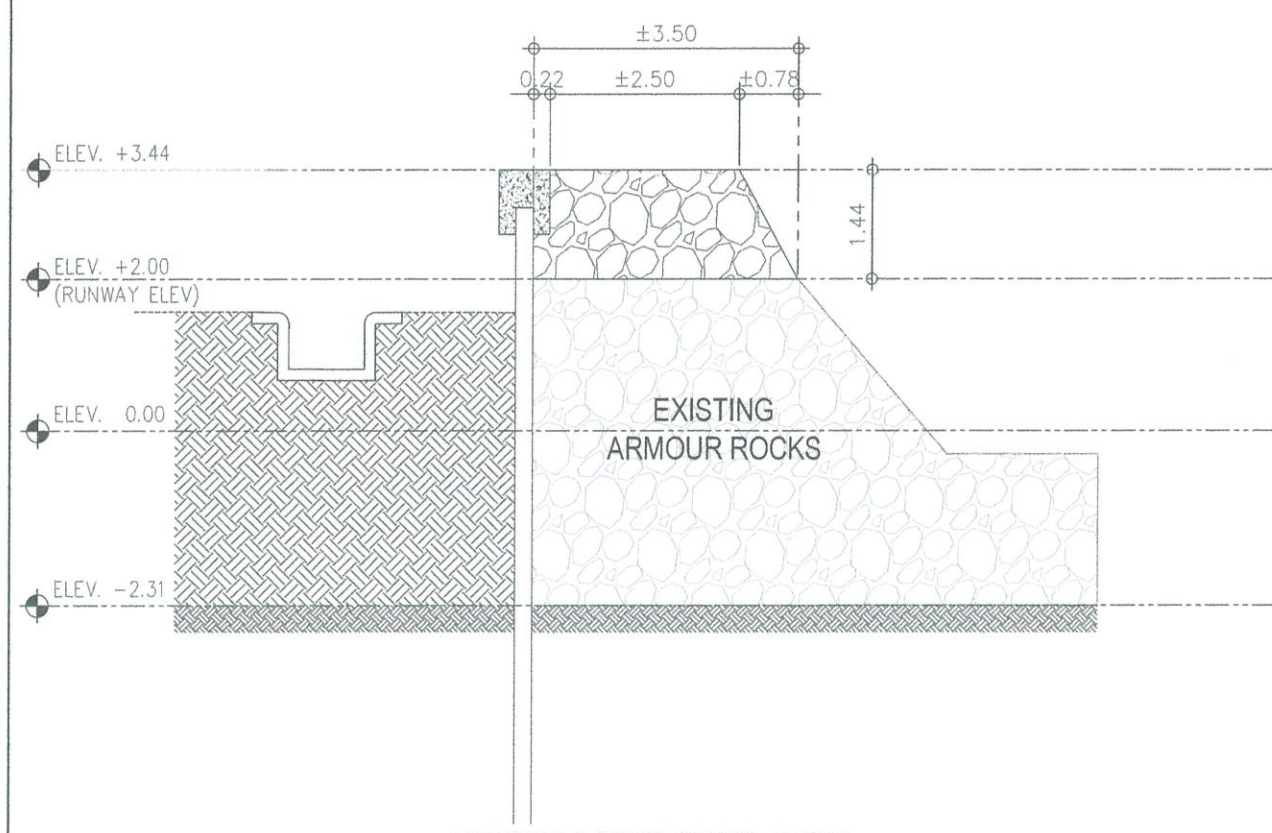
1
C-8/C-8

ARMOUR ROCKS @ STA. 0+220
DETAILED SECTION
SCALE: 1:100 M



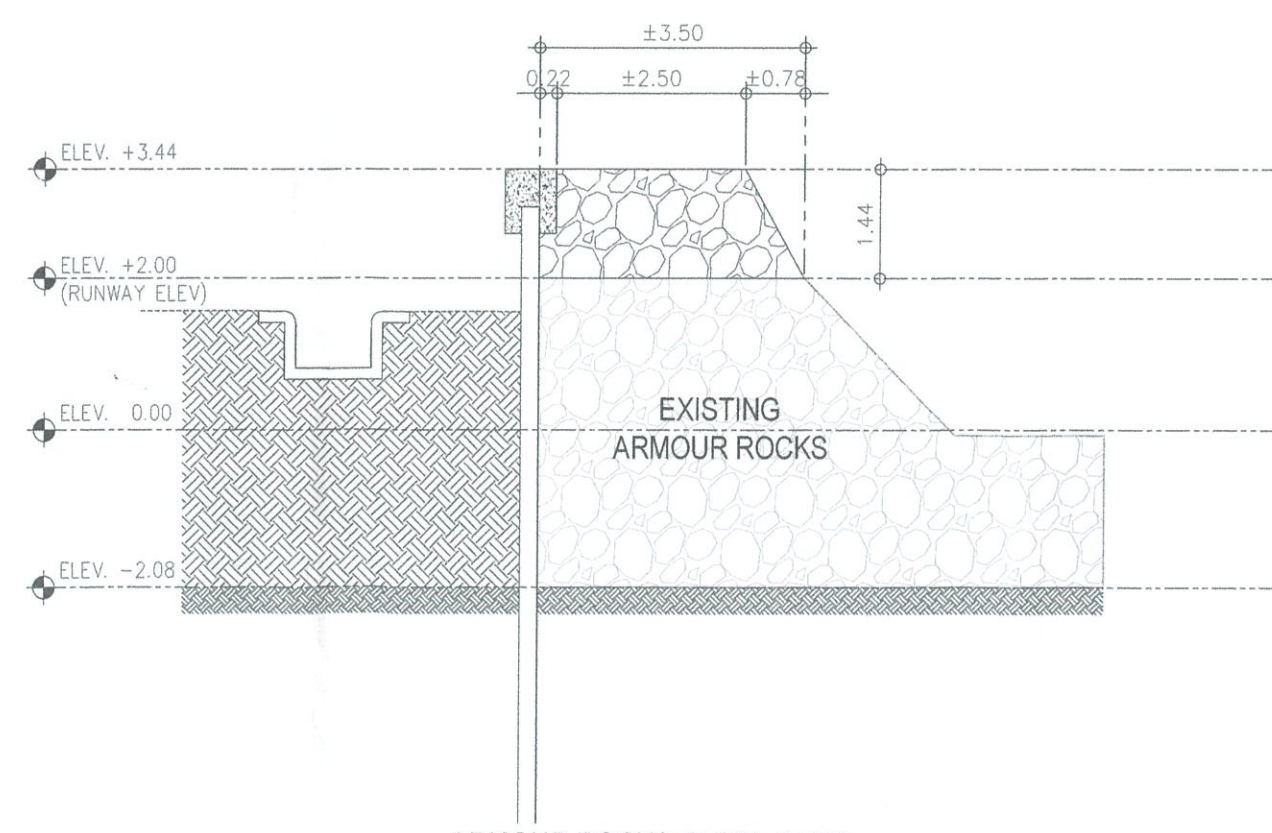
2
C-8/C-8

ARMOUR ROCKS @ STA. 0+240
DETAILED SECTION
SCALE: 1:100 M



3
C-8/C-8

ARMOUR ROCKS @ STA. 0+260
DETAILED SECTION
SCALE: 1:100 M



4
C-8/C-8

ARMOUR ROCKS @ STA. 0+280
DETAILED SECTION
SCALE: 1:100 M




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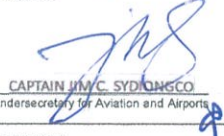
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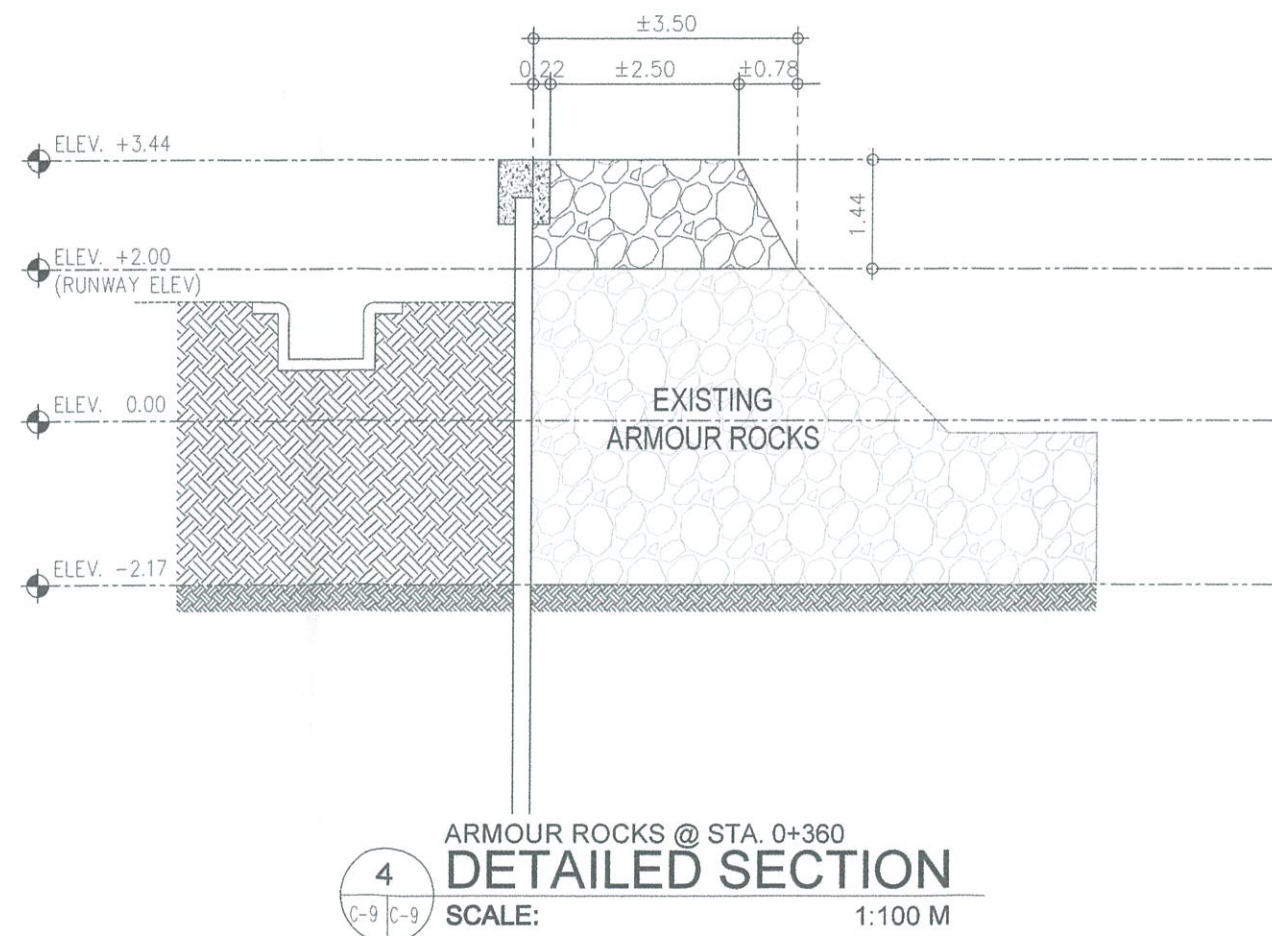
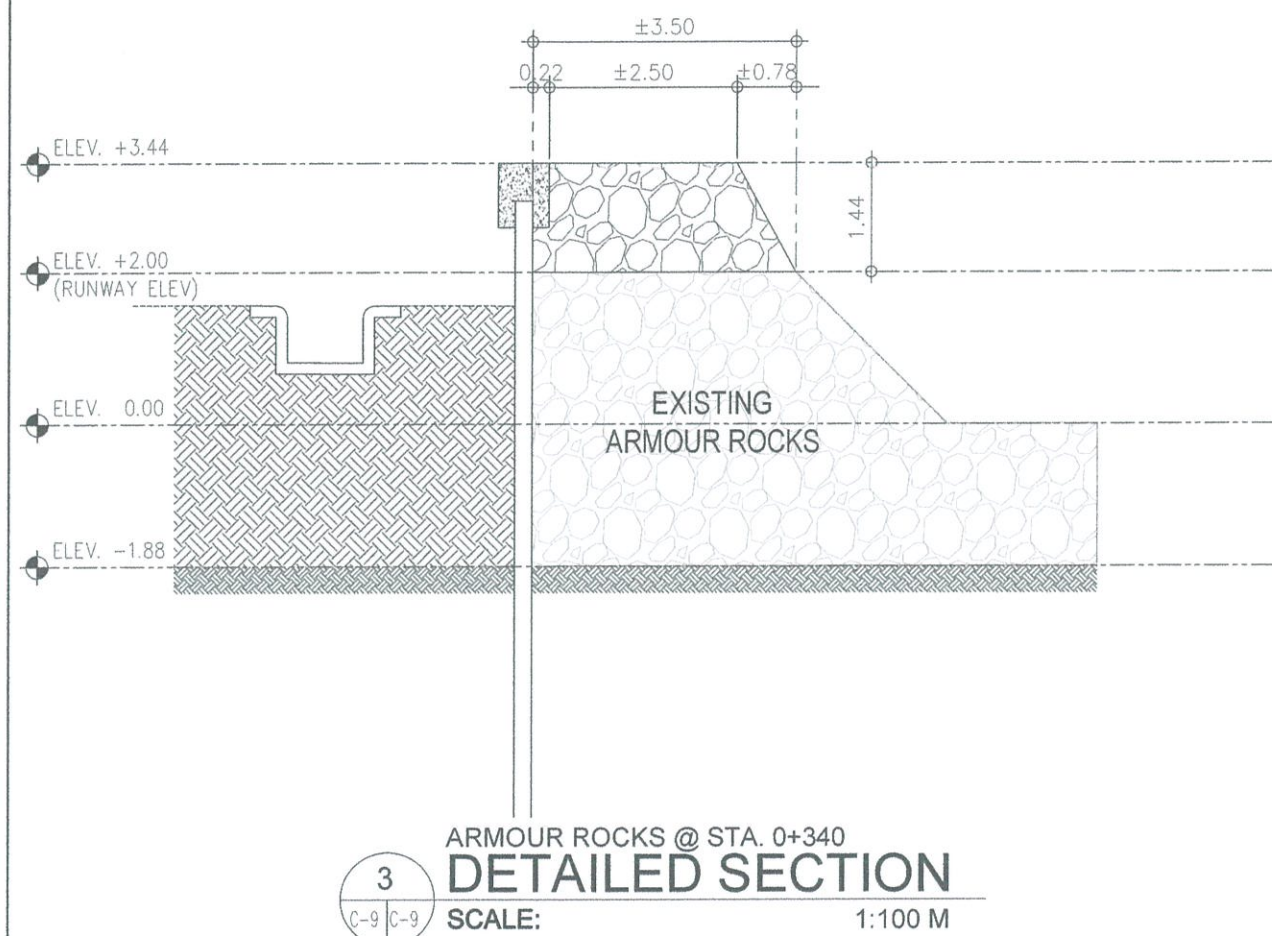
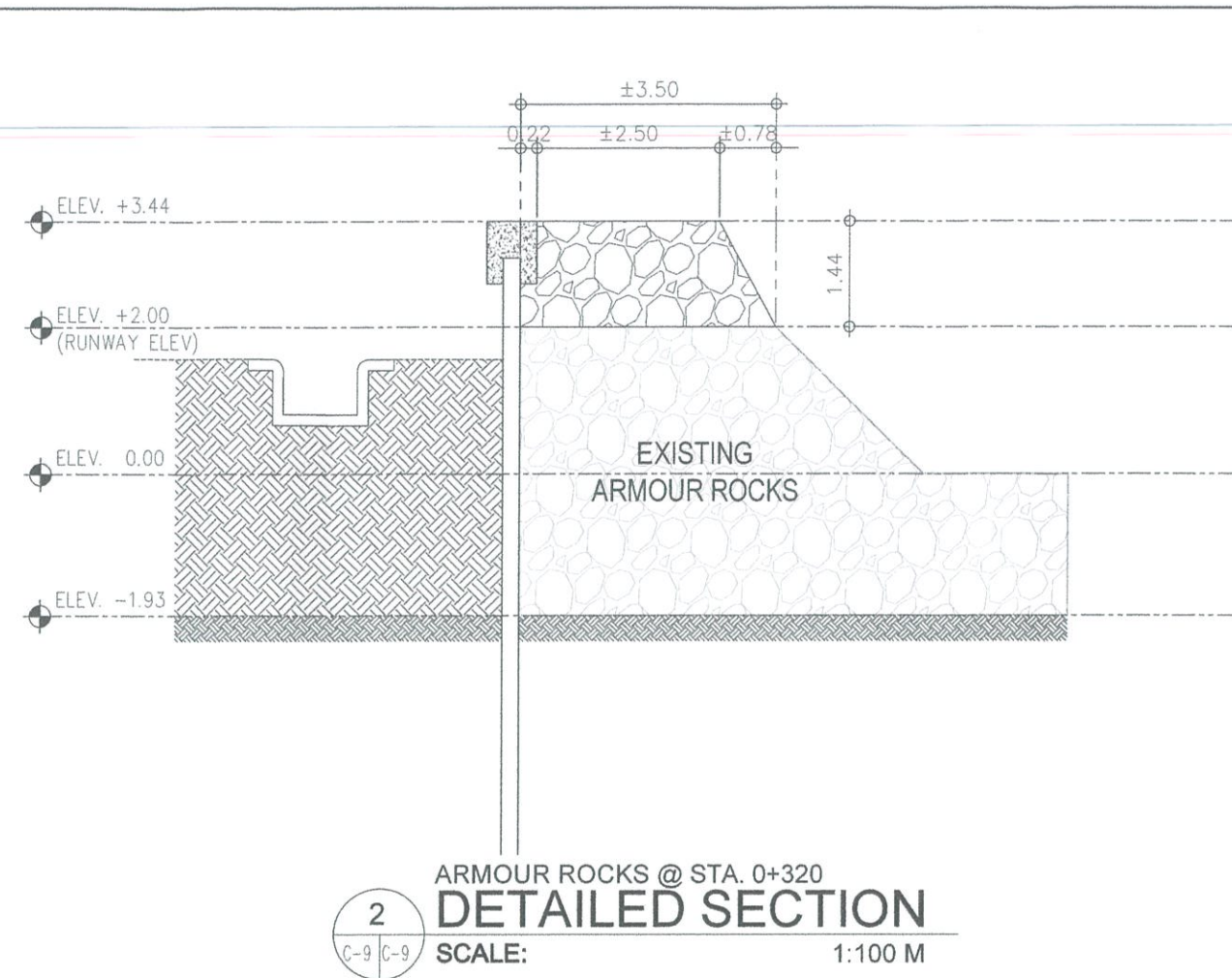
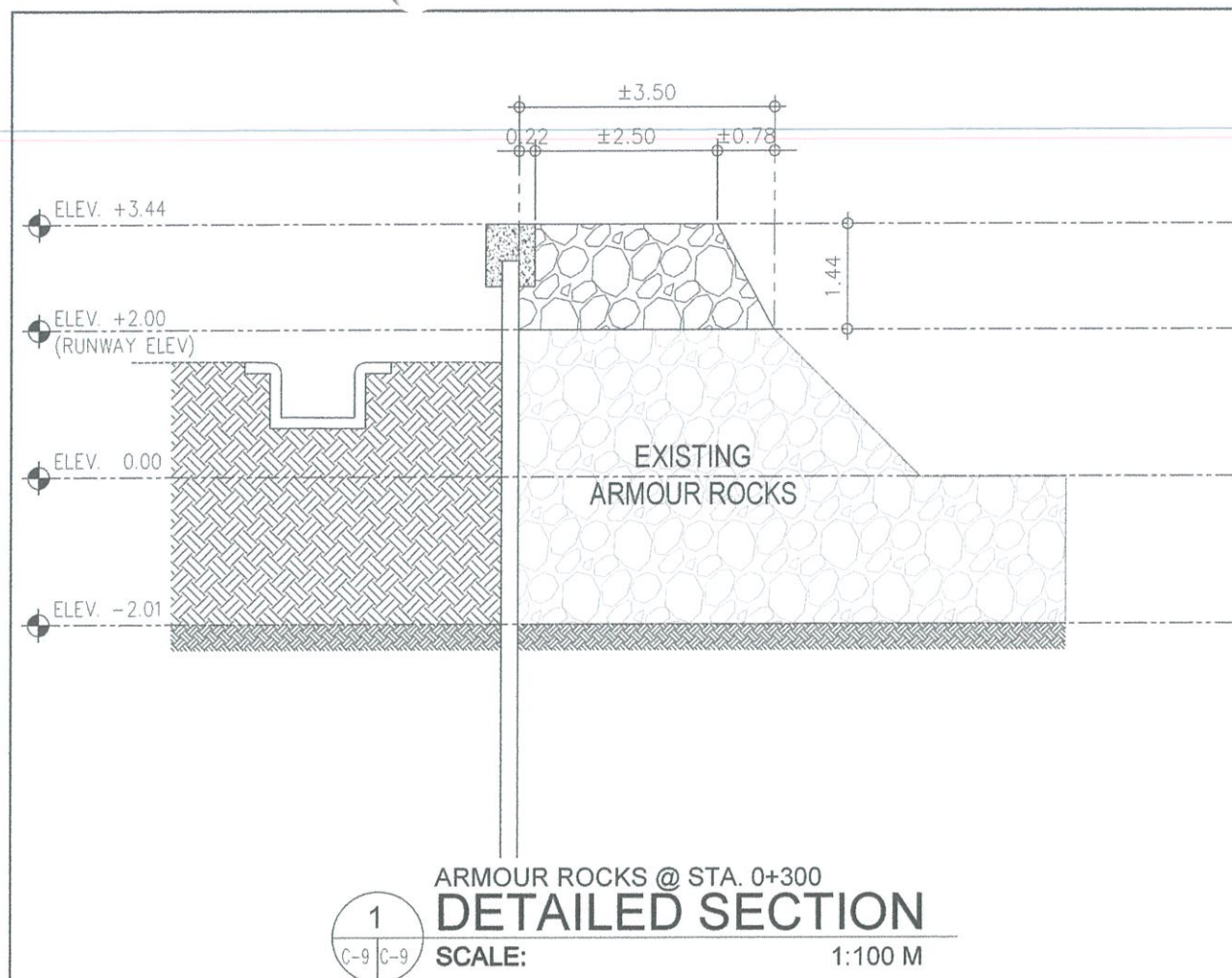
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PROJECT:
EMERGENCY REPAIR OF DAMAGES ON THE SHORE PROTECTION CAUSED BY TYPHOON CARINA

LOCATION:
SANGLEY AIRPORT
SAN ANTONIO, SANGLEY POINT,
CAVITE CITY, CAVITE

SHEET CONTENTS:
ARMOUR ROCKS SECTION:
• @ STA. 0 + 220
• @ STA. 0 + 240
• @ STA. 0 + 260
• @ STA. 0 + 280

DRAWING SCALE:	SHEET NO:
1:100 M	C-8



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INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

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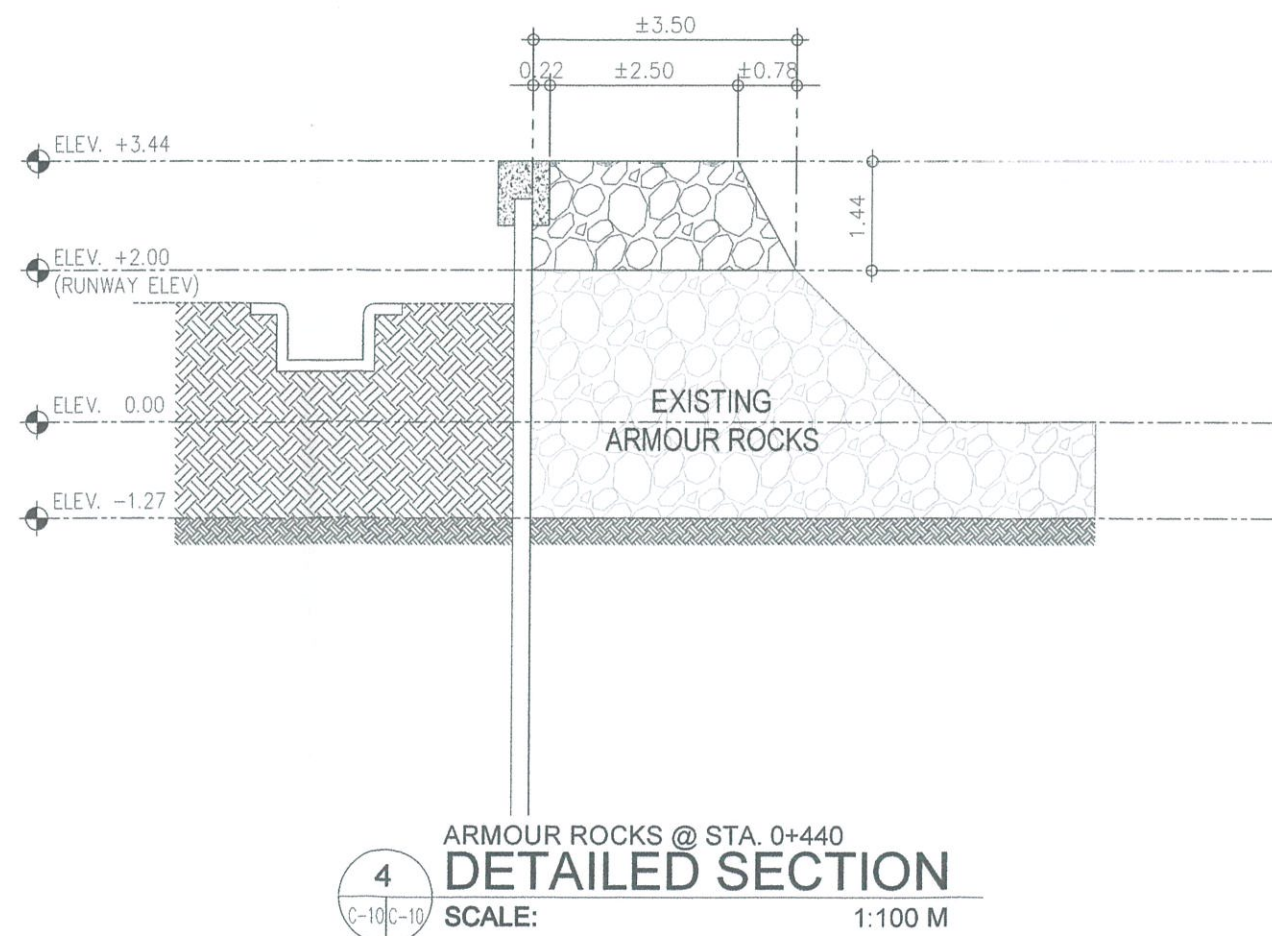
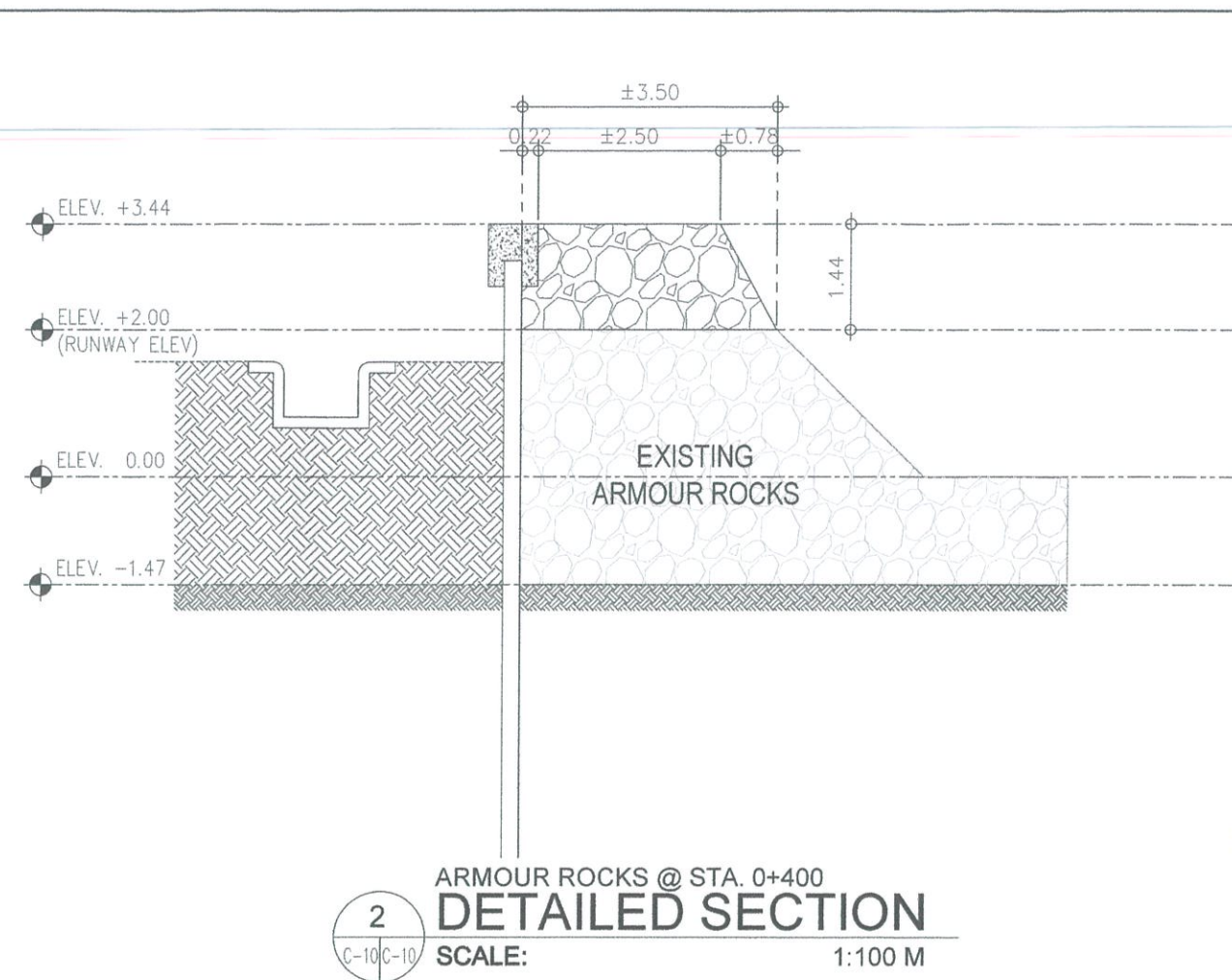
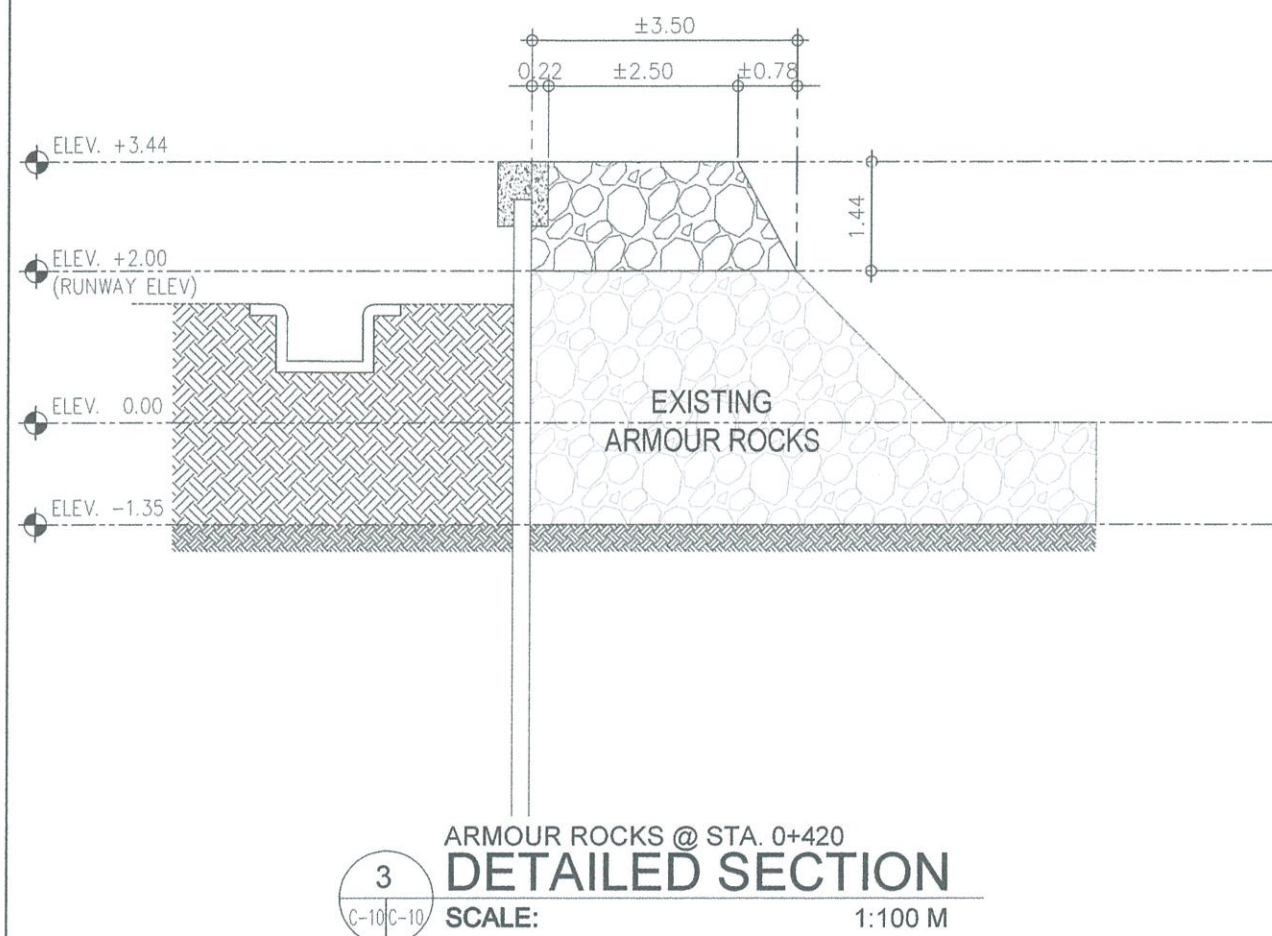
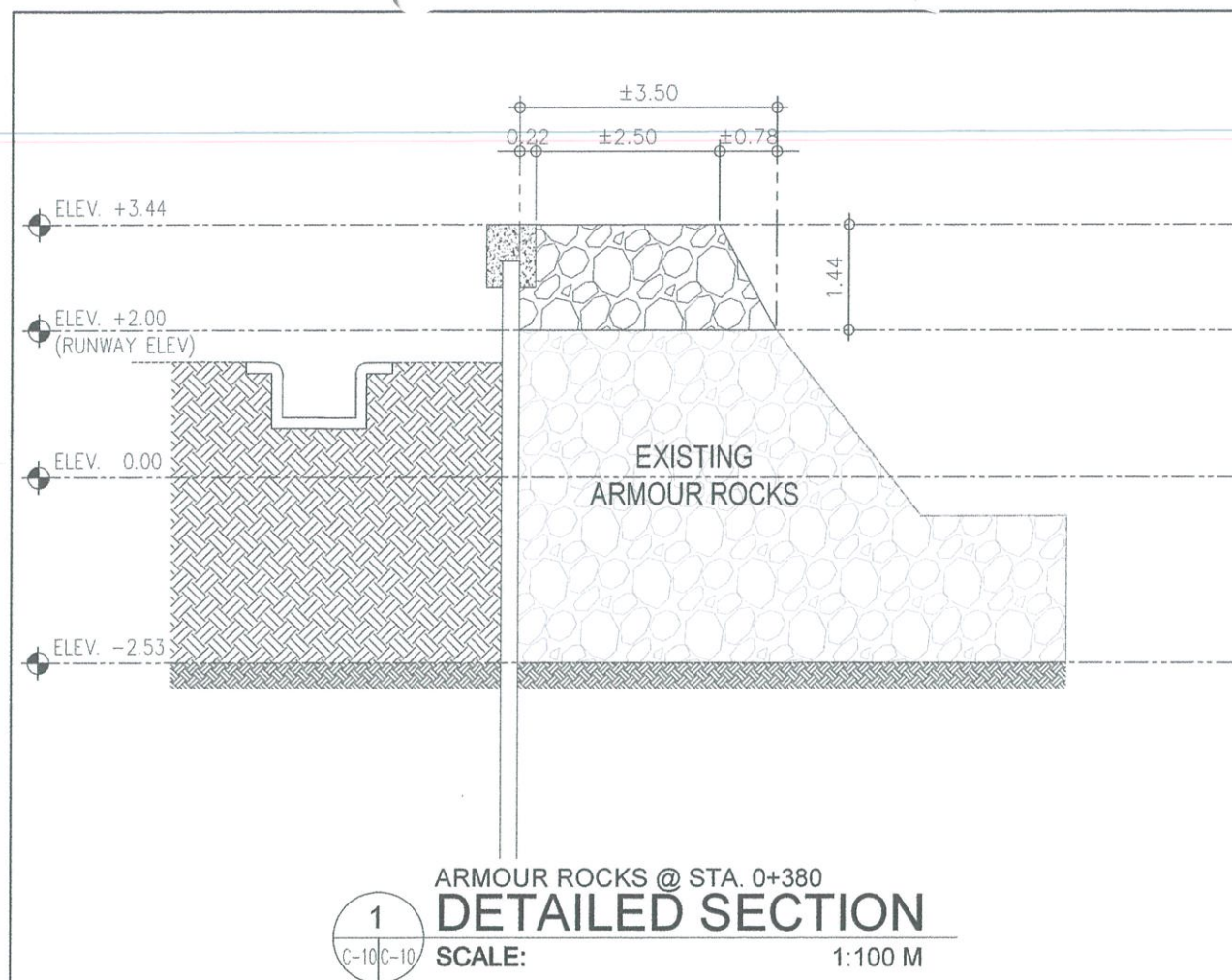
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SHEET CONTENTS:
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• @ STA. 0 + 320
• @ STA. 0 + 340
• @ STA. 0 + 360

DRAWING SCALE:	SHEET NO:
1:100 M	C-9



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AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / DATE
DESIGNED BY:	IODD
DRAWN BY:	CJLDC <i>gus</i>
CHECKED BY:	

REVIEWED BY:

[Signature]
RAUL R. CRUCENA
Division Chief III, IODD-AED

SUBMITTED BY:

[Signature]
ARNEL F. BORLADO
Department Manager III, AED-ADMS

RECOMMEND APPROVAL:

[Signature]
LT COL VALENTINO A. DIONELA PAF (RET)
ADG II, ADMS

APPROVED BY:

[Signature]
CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

CONCURRED BY:

[Signature]
CAPTAIN JIM C. SYDIONGCO
Undersecretary for Aviation and Airports

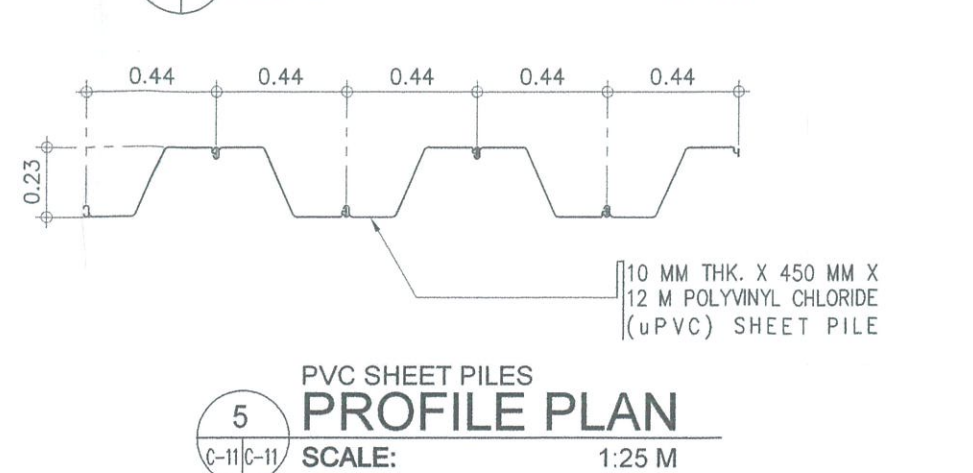
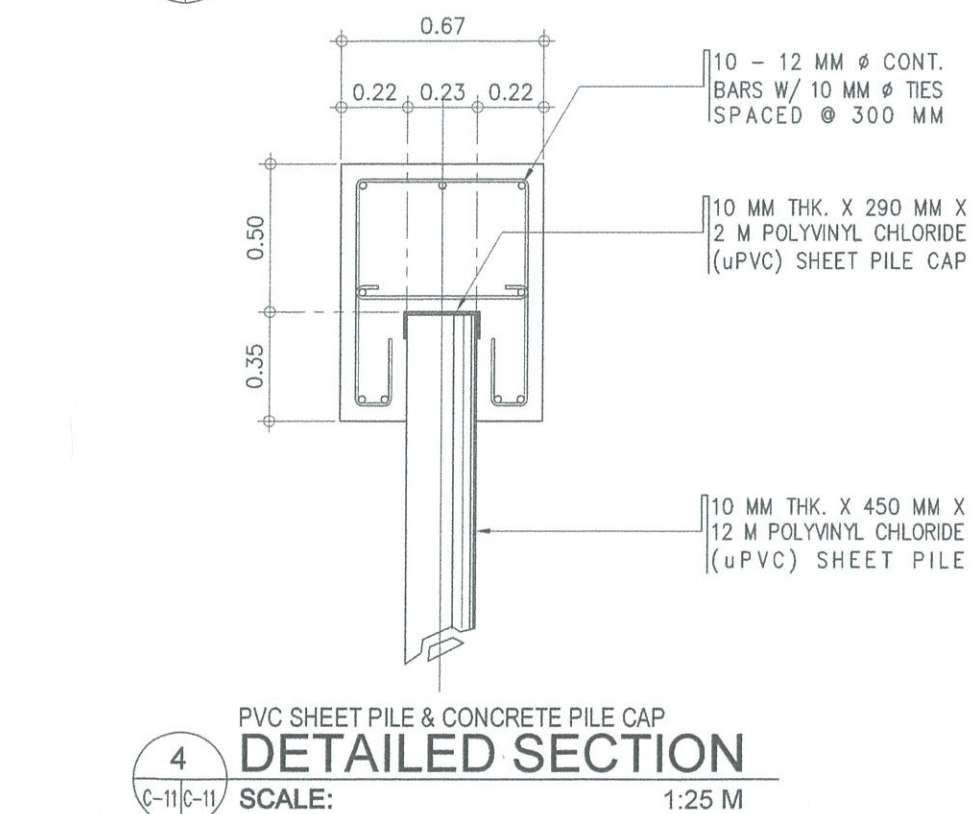
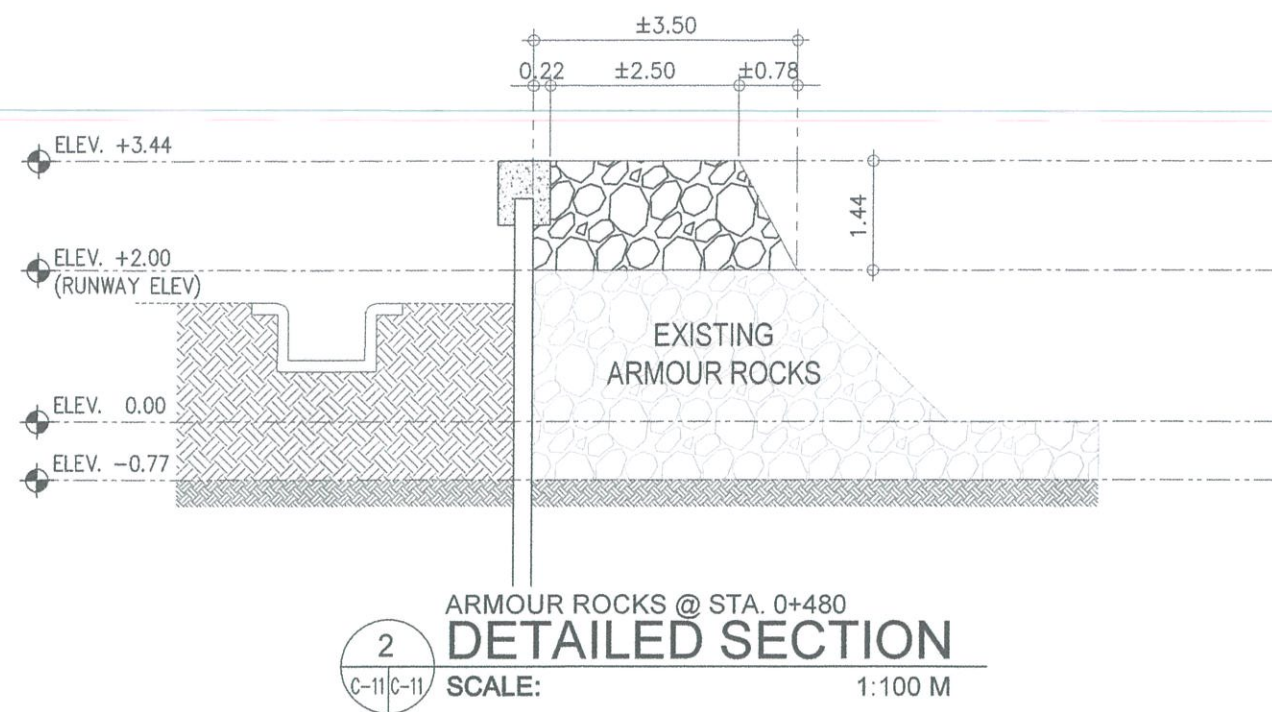
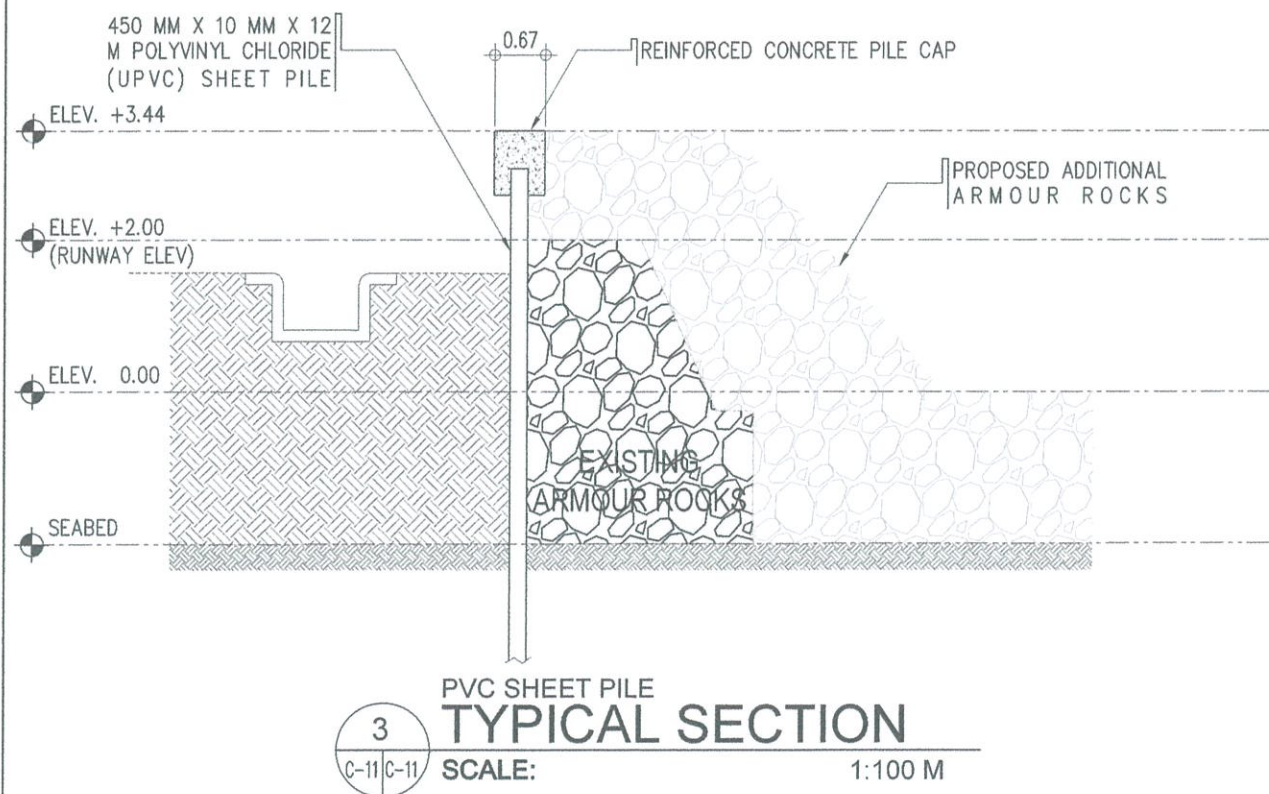
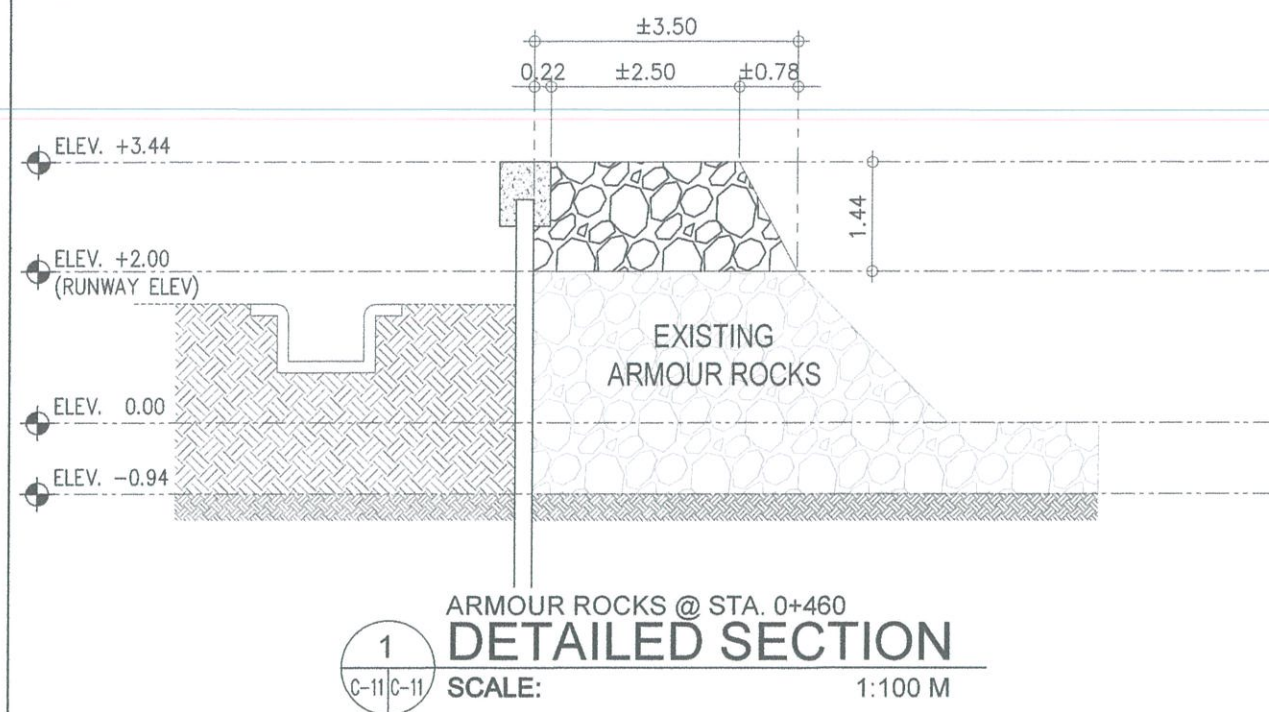
NOTES/REVISIONS:

PROJECT:
EMERGENCY REPAIR OF DAMAGES ON THE SHORE PROTECTION CAUSED BY TYPHOON CARINA

LOCATION:
SANGLEY AIRPORT
SAN ANTONIO, SANGLEY POINT,
CAVITE CITY, CAVITE

SHEET CONTENTS:
ARMOUR ROCKS SECTION:
• @ STA. 0 + 380
• @ STA. 0 + 400
• @ STA. 0 + 420
• @ STA. 0 + 440

DRAWING SCALE:	SHEET NO:
1:100 M	C-10



REPUBLIC OF THE PHILIPPINES
CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
NAIA ROAD, 1300 PASAY CITY

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CONSENT FROM THE DIRECTOR GENERAL
CAAP

AERODROME DEVELOPMENT
AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN
DIVISION

DESIGN STAFF: INITIAL / DATE
DESIGNED BY: IDDO
DRAWN BY: C.J.LDC *gus*
CHECKED BY:

REVIEWED BY:

Raul R. Orucena
RAUL R. ORUCENA
Division Chief III, IDDD-AED

SUBMITTED BY:
Arnel F. Borlado
ARNEL F. BORLADO
Department Manager II, AED-ADMS

RECOMMEND APPROVAL:
LT Col. Valentino A. Dionela PAF (RET)
LT COL. VALENTINO A. DIONELA PAF (RET)
ADG II, ADMS

APPROVED BY:
Captain Manuel Antonio L. Tamayo
CAPTAIN MANUEL ANTONIO L. TAMAYO
Director General

CONCURRED BY:
Captain JM C. Syngco
CAPTAIN JM C. SYNGCO
Undersecretary for Aviation and Airports

NOTES/REVISIONS:

PROJECT:
EMERGENCY REPAIR OF
DAMAGES ON THE SHORE
PROTECTION CAUSED BY
TYPHOON CARINA

LOCATION:
SANGLEY AIRPORT
SAN ANTONIO, SANGLEY POINT,
CAVITE CITY, CAVITE

SHEET CONTENTS:
ARMOUR ROCKS SECTION:
• @ STA. 0 + 460
• @ STA. 0 + 480
• SHEET PILE DETAILS

DRAWING SCALE: 1:100 M
SHEET NO: C-11

Material Table				Material Table					
Station	Area	Volume	Cumulative Volume	Station	Area	Volume	Cumulative Volume	REPUBLIC OF THE PHILIPPINES CIVIL AVIATION AUTHORITY OF THE PHILIPPINES AERODROME DEVELOPMENT AND MANAGEMENT SERVICE NAIA ROAD, 1300 PASAY CITY	
0-240.00	18.35	0.00	0.00	0+120.00	4.29	85.80	3736.31	THIS DRAWINGS AND DESIGN IS EXCLUSIVE PROPERTIES OF CIVIL AVIATION AUTHORITY OF THE PHILIPPINES AND SUCH MUST NOT BE REPRODUCED, EXHIBITED, LOANED NOR COPIED IN PART OR IN WHOLE WITHOUT PROPER PERMISSION AND/OR WRITTEN CONSENT FROM THE DIRECTOR GENERAL CAAP.	
0-220.00	18.31	614.06	614.06	0+140.00	4.29	85.80	3822.11	AERODROME DEVELOPMENT AND MANAGEMENT SERVICE	
0-200.00	19.05	625.78	1239.84	0+160.00	4.29	85.80	3907.91	INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION	
0-180.00	19.21	640.86	1880.69	0+180.00	4.29	85.80	3993.71	DESIGN STAFF: INITIAL / DATE	
0-160.00a	19.86	654.42	2535.11	0+200.00	4.29	85.80	4079.51	DESIGNED BY: IDDD	
0-160.00b	4.29	0.00	2535.11	0+220.00	4.29	85.80	4165.31	DRAWN BY: C.J.LDC <i>[Signature]</i>	
0-140.00	4.29	85.80	2620.91	0+240.00	4.29	85.80	4251.11	CHECKED BY:	
0-120.00	4.29	85.80	2706.71	0+260.00	4.29	85.80	4336.91	REVIEWED BY:	
0-100.00	4.29	85.80	2792.51	0+280.00	4.29	85.80	4422.71	<i>[Signature]</i> RAUL R. CRUCENA Division Chief III, IDDD-AED	
0-080.00	4.29	85.80	2878.31	0+300.00	4.29	85.80	4508.51	SUBMITTED BY:	
0-060.00	4.29	85.80	2964.11	0+320.00	4.29	85.80	4594.31	<i>[Signature]</i> ARNEL F. BORLADO Department Manager III, AED-ADMS	
0-040.00	4.29	85.80	3049.91	0+340.00	4.29	85.80	4680.11	RECOMMEND APPROVAL:	
0-020.00	4.29	85.80	3135.71	0+360.00	4.29	85.80	4765.91	<i>[Signature]</i> LT COL. VALENTINO A. DIONELA PAF (RET) ADG II, ADMS	
0+000.00	4.29	85.80	3221.51	0+380.00	4.29	85.80	4851.71	APPROVED BY:	
0+020.00	4.29	85.80	3307.31	0+400.00	4.29	85.80	4937.51	<i>[Signature]</i> CAPTAIN MANUEL ANTONIO L. TAMAYO Director General	
0+040.00	4.29	85.80	3393.11	0+420.00	4.29	85.80	5023.31	CONCURRED BY:	
0+060.00	4.29	85.80	3478.91	0+440.00	4.29	85.80	5109.11	<i>[Signature]</i> CAPTAIN JIM C. SYDONCO Undersecretary for Aviation and Airports	
0+080.00	4.29	85.80	3564.71	0+460.00	4.29	85.80	5194.91	NOTES/REVISIONS:	
0+100.00	4.29	85.80	3650.51	0+480.00	4.29	85.80	5280.71	PROJECT:	
								EMERGENCY REPAIR OF DAMAGES ON THE SHORE PROTECTION CAUSED BY TYPHOON CARINA	
								LOCATION:	
								SANGLEY AIRPORT SAN ANTONIO, SANGLEY POINT, CAVITE CITY, CAVITE	
								SHEET CONTENTS	
								• ARMOUR ROCKS @ STA. 0-240 TO 0+480 MATERIAL TABLE	
								DRAWING SCALE	
								SHEET NO:	
								C-12	

1

C-12C-12

@ STA. 0-240 TO 0+480
ARMOUR ROCKS MATERIAL TABLE
SCALE: