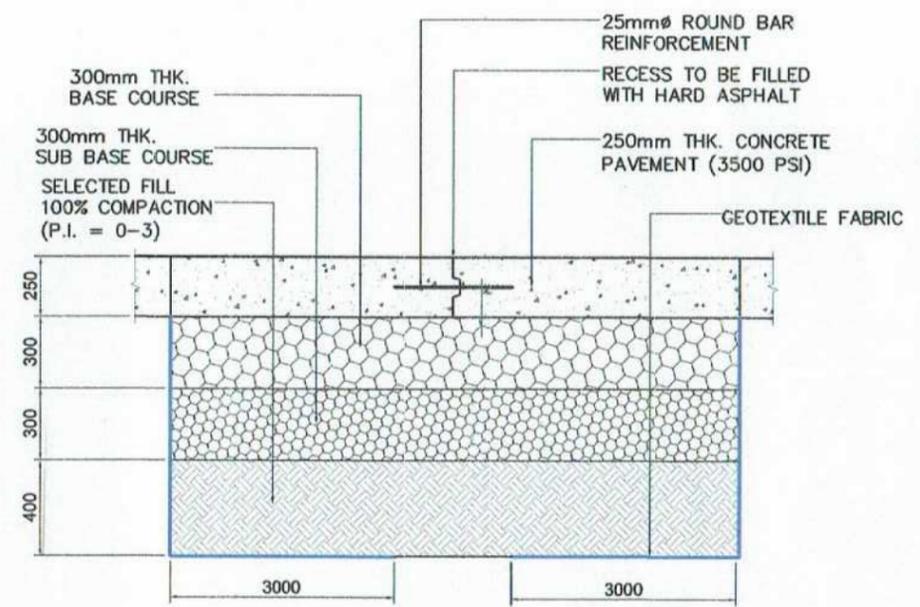
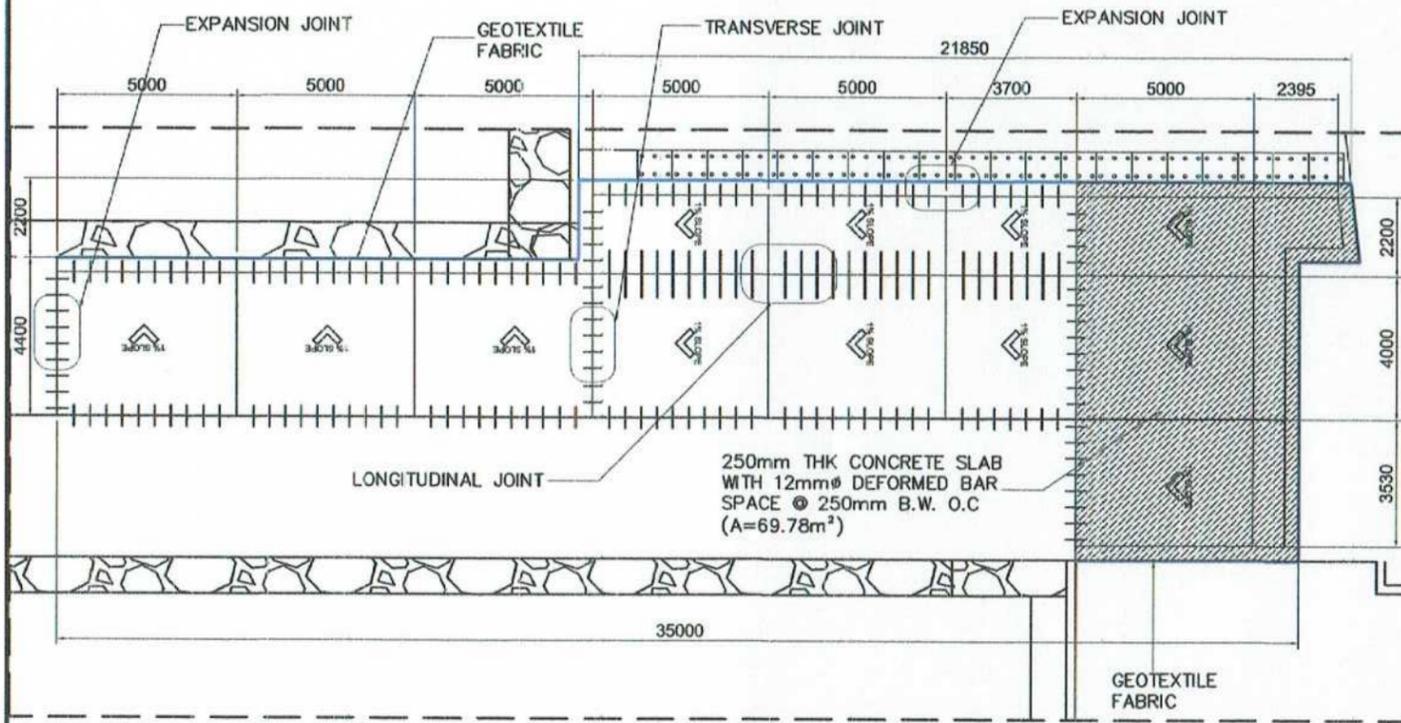


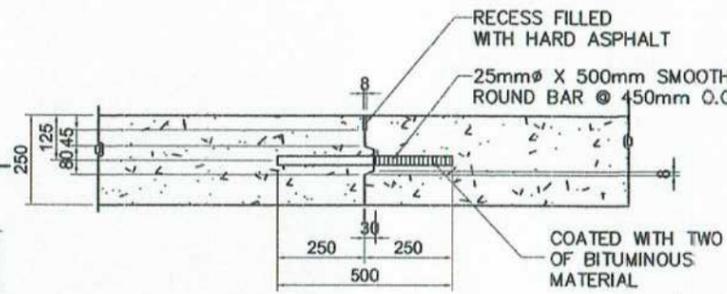
SECTION 'A-A'
SCALE 1:150



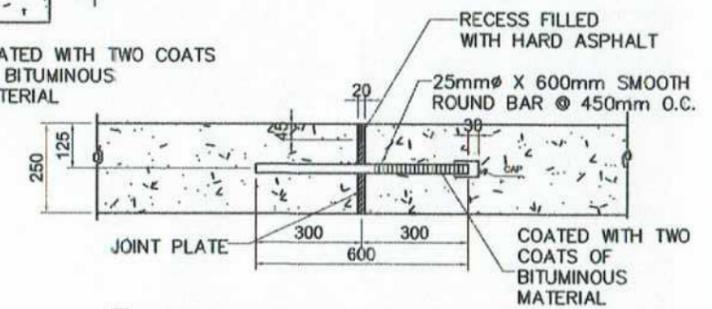
TYP. SECTION OF CONCRETE PAVEMENT
SCALE 1:30



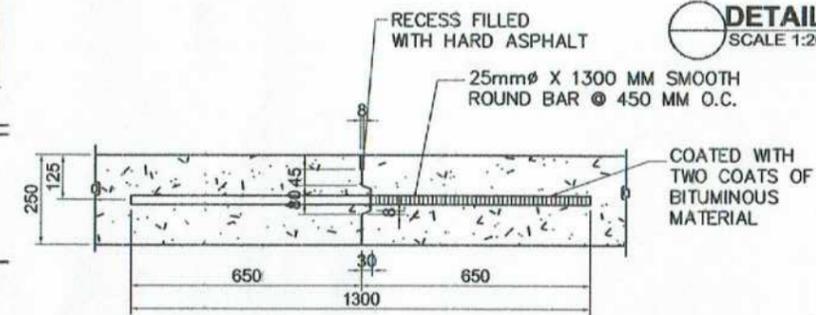
CONCRETE PAVEMENT PLAN SHOWING THE REBARS
SCALE 1:200



DETAIL OF TRANSVERSE JOINT
SCALE 1:20



DETAIL OF EXPANSION JOINT
SCALE 1:20



DETAIL OF LONGITUDINAL JOINT
SCALE 1:20

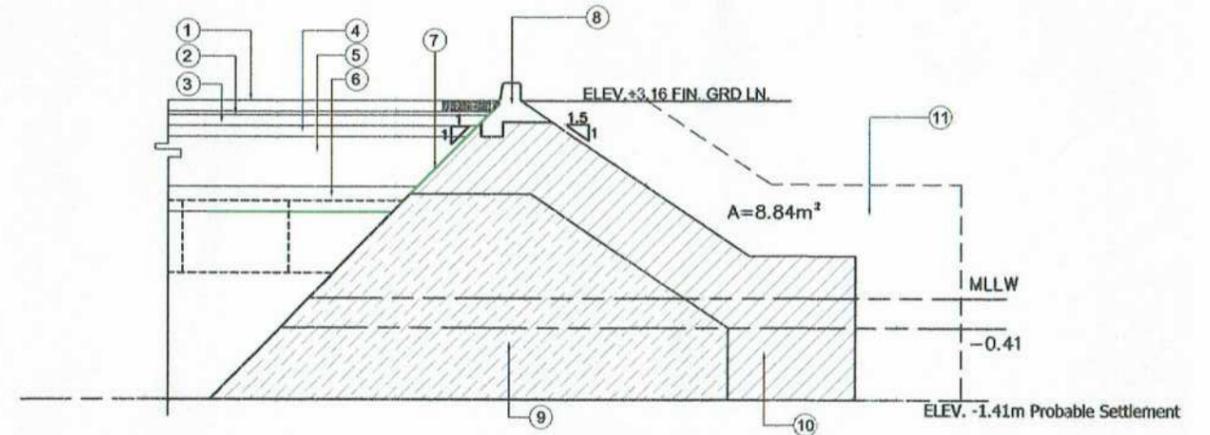
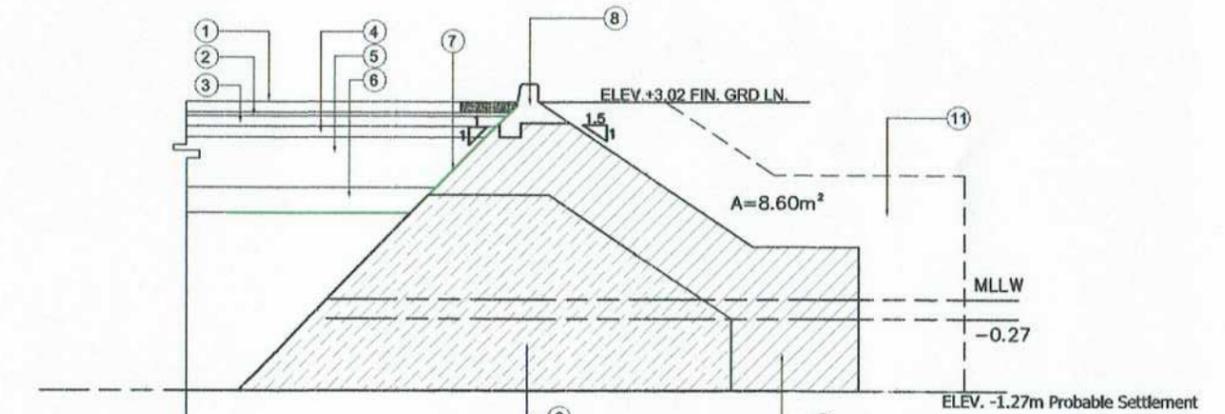
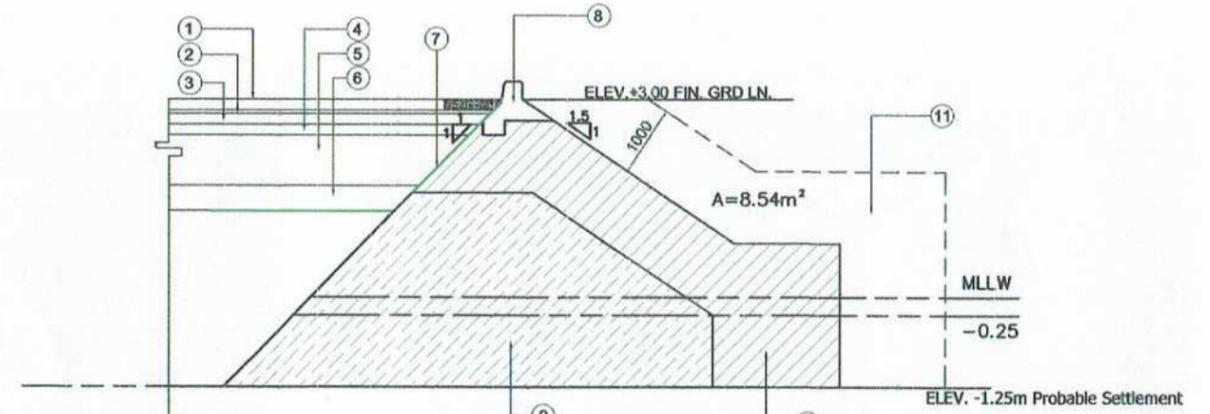
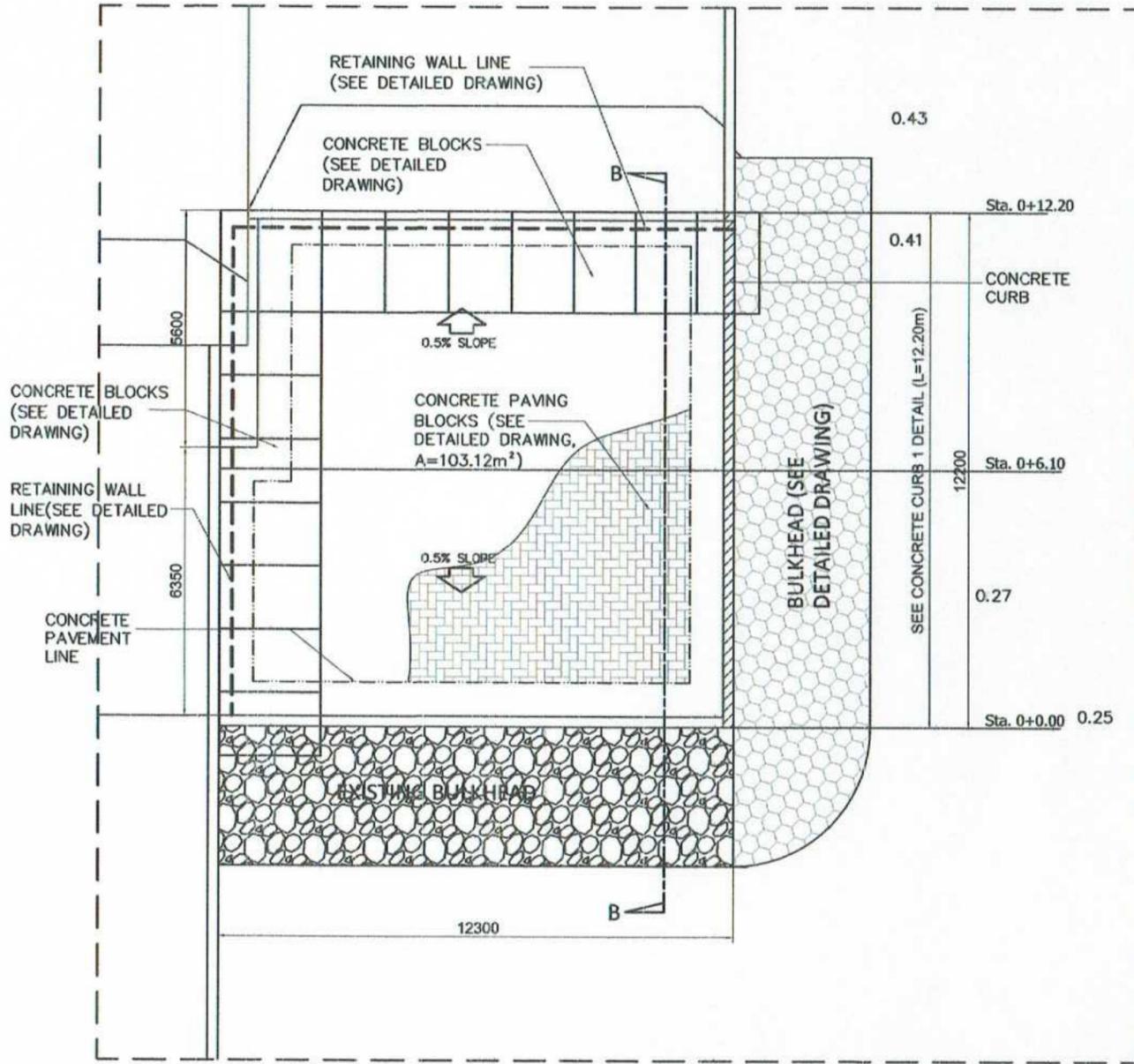
NOTE:

1. ALL REINFORCING BARS SHALL CONFORM WITH ASTM A615. ALL REINFORCING STEEL BARS SHALL INTERMEDIATE GRADE WITH ULTIMATE STRENGTH (fy) OF 276 MPa OR 40,000psi (GRADE 40) FOR 12mmØ BELOW AND 414 MPa OR 60,000psi (GRADE 60) FOR 16mmØ ABOVE.

	PROJECT TITLE	PREPARED BY:	CHECKED BY:	REVIEWED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT:	DATE:
	EMERGENCY REPAIR OF SETTLED BACK-UP AND MANEUVERING AREAS AND CONCRETE PAVEMENT DAMAGED BY MAGNITUDE 7.2 EARTHQUAKE	JOECARLO I. SORIANO ENGINEERING ASSISTANT (J.O.)	CHARMAINE DUJINE MANTOYA SENIOR ENGINEER A (J.O.)	MARIA VIVIEN M. TANCO ACTING PRINCIPAL ENGINEER A	JAMESON L. LEE ESD MANAGER	ATTY. CESAR M. DATAYA ACTING PORT MANAGER	<ol style="list-style-type: none"> 1. SECTION 'A-A' 2. TYP. SECTION OF CONCRETE PAVEMENT 3. CONCRETE PAVEMENT PLAN SHOWING THE REBARS 4. DETAIL OF JOINT 	2/8
	LOCATION							
	PORT OF GLAN, GLAN, SARANGANI PROVINCE							

LEGEND:

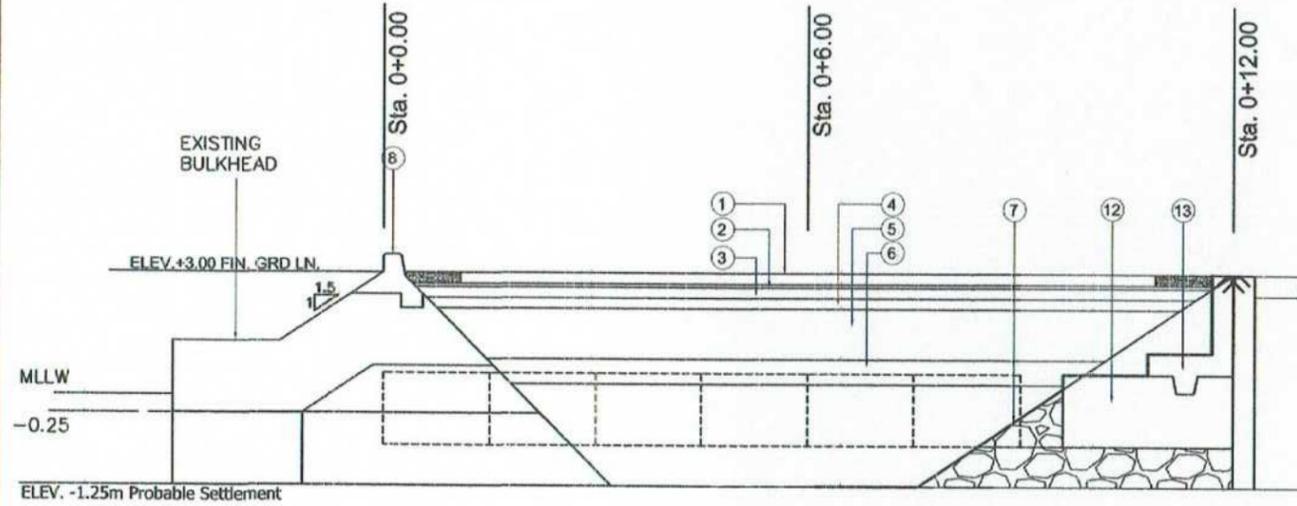
- ① • 100X200X125mm(6000 PSI)CONC. PAVING BLOCKS
- ② • 50mm THK SAND CUSHION
- ③ • 150mm THK 10% CEMENT BASE TREATED
- ④ • 150mm THK AGGREGATE BASE COURSE
- ⑤ • SELECTED FILL 100% COMPACTION (P.I. = 0-3)
- ⑥ • SAND AND GRAVEL FILL
- ⑦ • GEOTEXTILE FABRIC (W/ 1 METER OVERLAPPING)
- ⑧ • CONCRETE CURB
- ⑨ • 50-100 KGS CORE ROCK (EXISTING)
- ⑩ • 1000KGS ARMOUR ROCK (EXISTING)
- ⑪ • 1000KGS ARMOUR ROCK
- ⑫ • 4000 PSI CONCRETE BLOCK (SEE DETAILED DRAWING)
- ⑬ • RETAINING WALL (SEE DETAILED DRAWING)



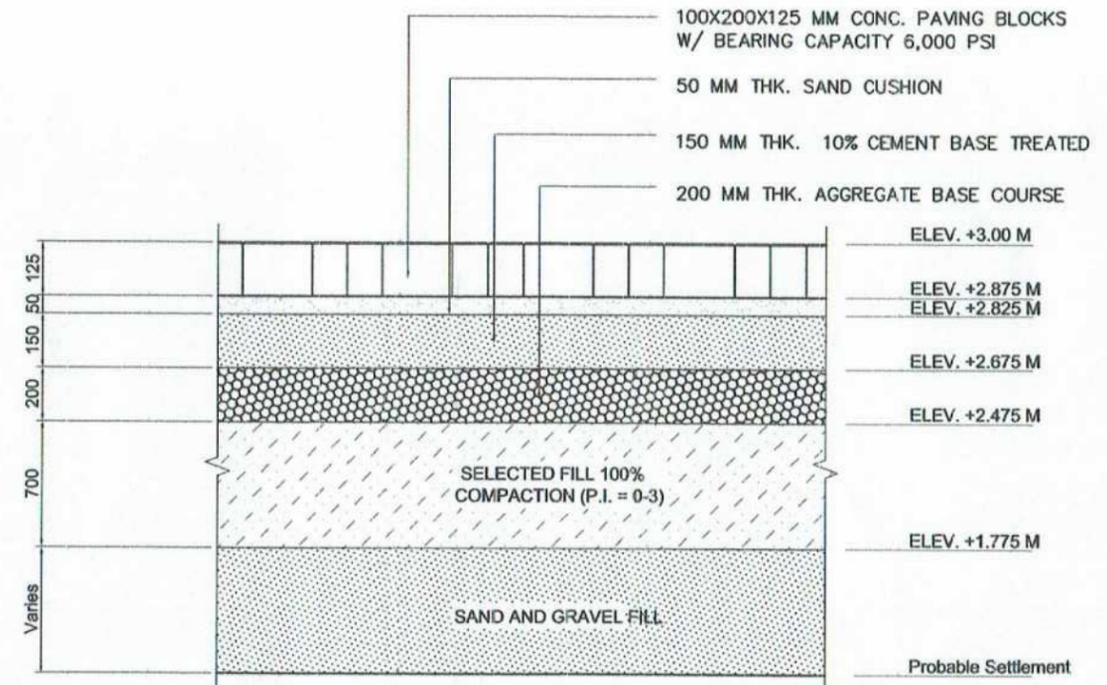
	PROJECT TITLE EMERGENCY REPAIR OF SETTLED BACK-UP AND MANEUVERING AREAS AND CONCRETE PAVEMENT DAMAGED BY MAGNITUDE 7.2 EARTHQUAKE	PREPARED BY: JOE CARLO I. SORIANO ENGINEERING ASSISTANT (J.O.)	CHECKED BY: CHARMAINE D. JUNG MANTOYA SENIOR ENGINEER A (J.O.)	REVIEWED BY: MARIA VIVIEN M. TANCO ACTING PRINCIPAL ENGINEER A	RECOMMENDING APPROVAL: JAMESON L. LEE ESD MANAGER	APPROVED BY: ATTY. CESAR M. DATAYA ACTING PORT MANAGER	SHEET CONTENT: 1. MANEUVERING AREA BLOW-UP PLAN 2. CROSS SECTION	DATE: 3/8
	LOCATION PORT OF GLAN, GLAN, SARANGANI PROVINCE							

LEGEND:

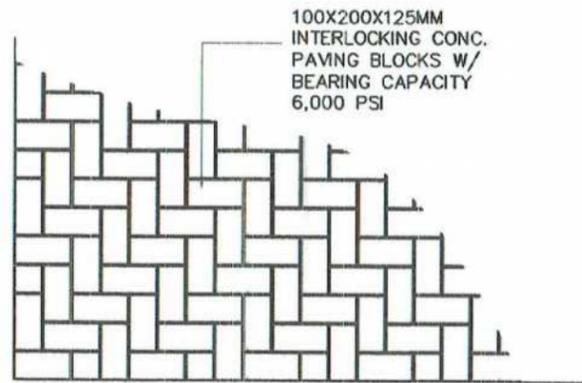
- ① • 100X200X125mm(6000 PSI)CONC. PAVING BLOCKS
- ② • 50mm THK SAND CUSHION
- ③ • 150mm THK 10% CEMENT BASE TREATED
- ④ • 150mm THK AGGREGATE BASE COURSE
- ⑤ • SELECTED FILL 100% COMPACTION (P.I. = 0-3)
- ⑥ • SAND AND GRAVEL FILL
- ⑦ • GEOTEXTILE FABRIC (W/ 1 METER OVERLAPPING)
- ⑧ • CONCRETE CURB
- ⑨ • 50-100 KGS CORE ROCK (EXISTING)
- ⑩ • 1000KGS ARMOUR ROCK (EXISTING)
- ⑪ • 1000KGS ARMOUR ROCK
- ⑫ • 4000 PSI CONCRETE BLOCK (SEE DETAILED DRAWING)
- ⑬ • RETAINING WALL (SEE DETAILED DRAWING)



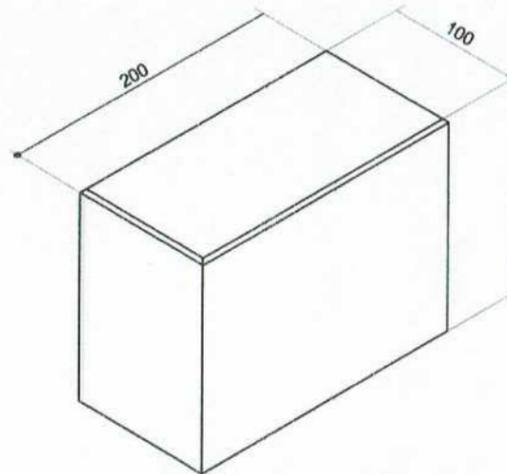
SECTION 'B-B'
SCALE 1:100



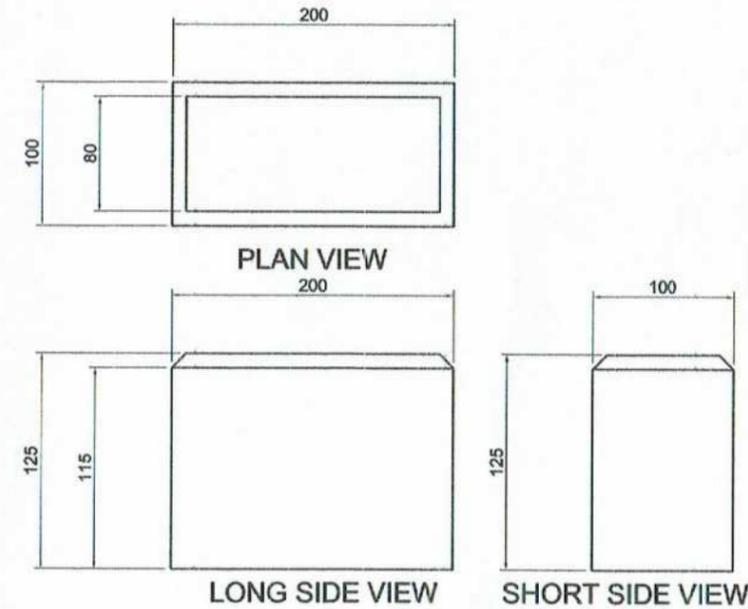
TYPICAL PART SECTION OF CONC. PAVING BLOCKS
SCALE 1:20



PLACING PATTERN OF INTERLOCKING CONCRETE BLOCKS
SCALE 1:25



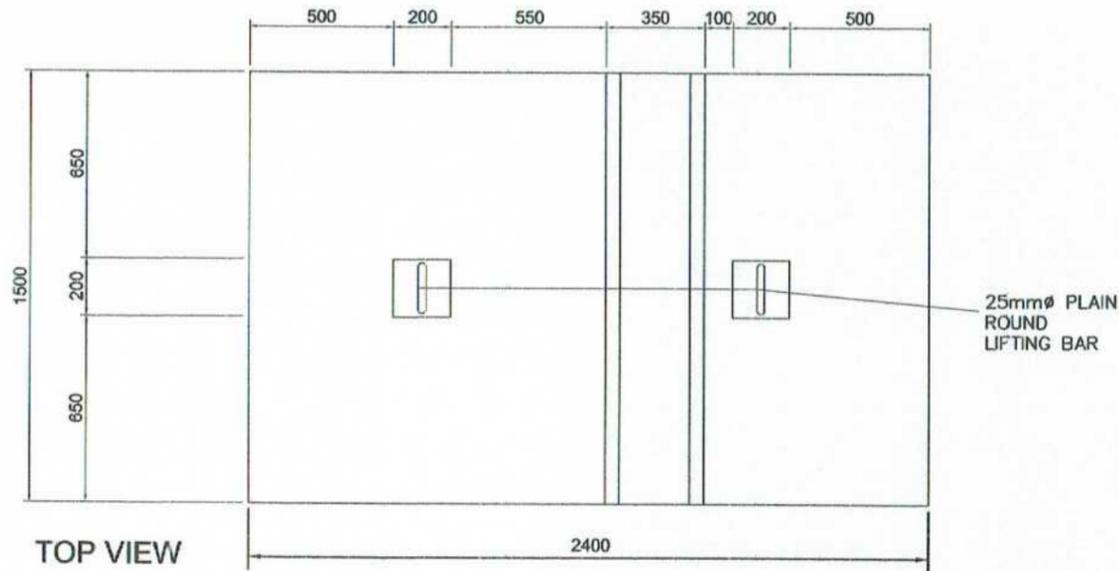
ISOMETRIC VIEW



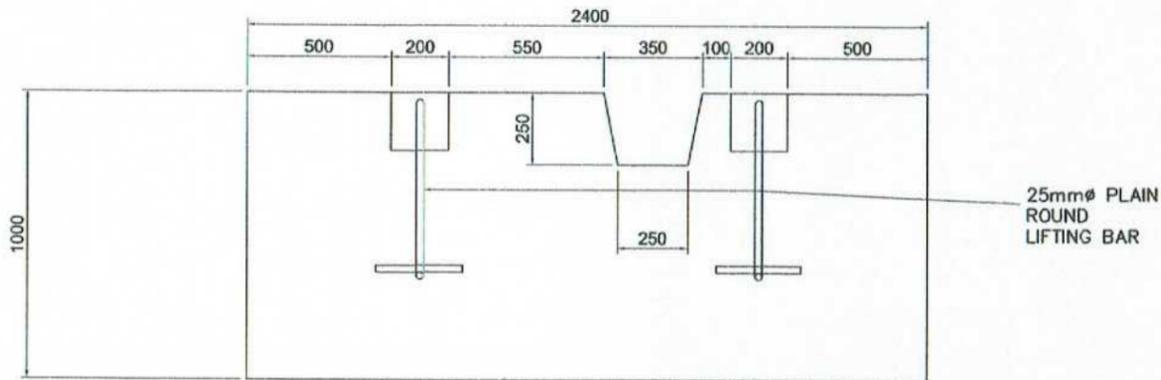
NOTE: PAVING BLOCK BEARING CAPACITY OF $f_c = 40.9 \text{ MPa}$ (6,000 PSI)

CONC. PAVING BLOCK DETAIL
SCALE 1:5

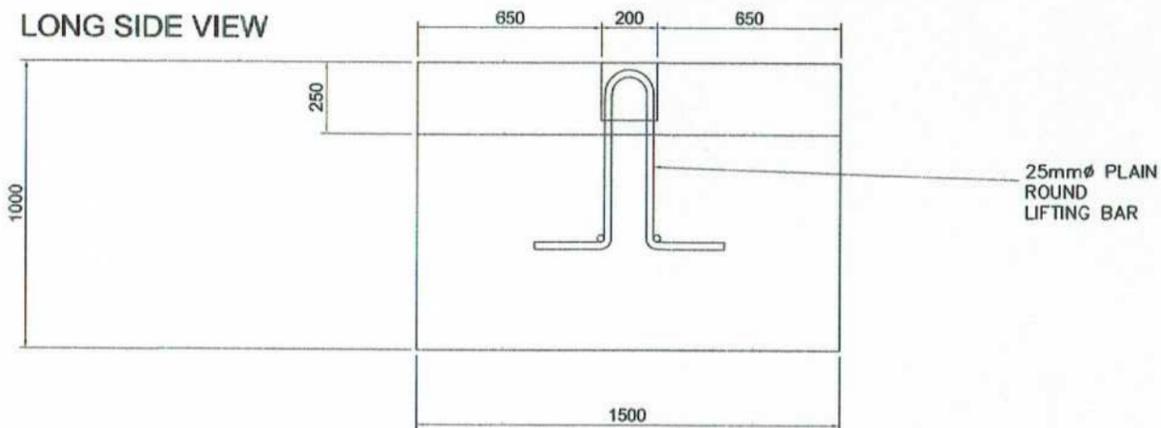
	PROJECT TITLE	PREPARED BY:	CHECKED BY:	REVIEWED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT: 1. SECTION 'B-B' 2. TYPICAL PART SECTION OF CONC. PAVING BLOCKS 3. PLACING PATTERN OF INTERLOCKING CONC. BLOCKS 4. CONC. PAVING BLOCK DET.	DATE: 4/8	
	EMERGENCY REPAIR OF SETTLED BACK-UP AND MANEUVERING AREAS AND CONCRETE PAVEMENT DAMAGED BY MAGNITUDE 7.2 EARTHQUAKE	 JOECARLO I. SORIANO ENGINEERING ASSISTANT (J.O.)	 CHARMAINE DUJINE MANTOYA SENIOR ENGINEER A (J.O.)	 MARIA VIVIEN M. TANCO ACTING PRINCIPAL ENGINEER A	 JAMESON L. LEE ESD/MANAGER	 ATTY. CESAR M. DATAYA ACTING PORT MANAGER			
	LOCATION	PORT OF GLAN, GLAN, SARANGANI PROVINCE							



TOP VIEW

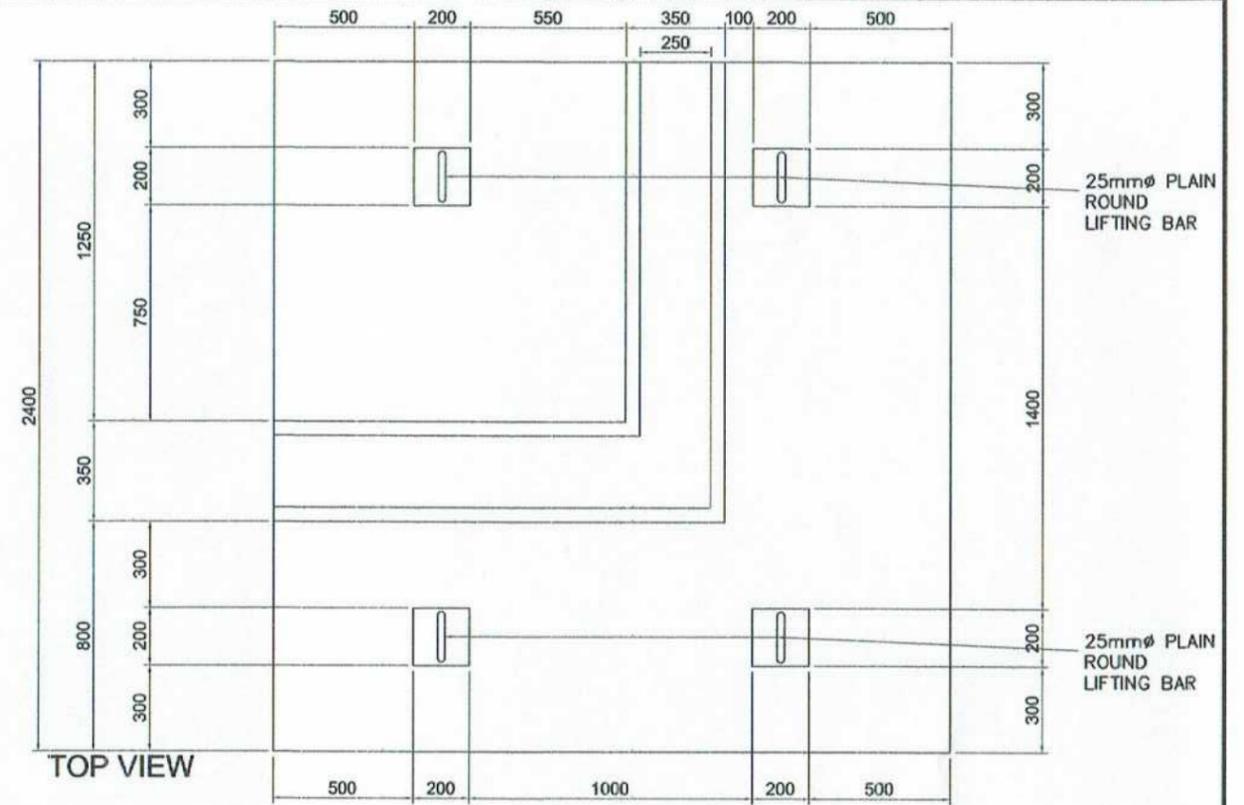


LONG SIDE VIEW

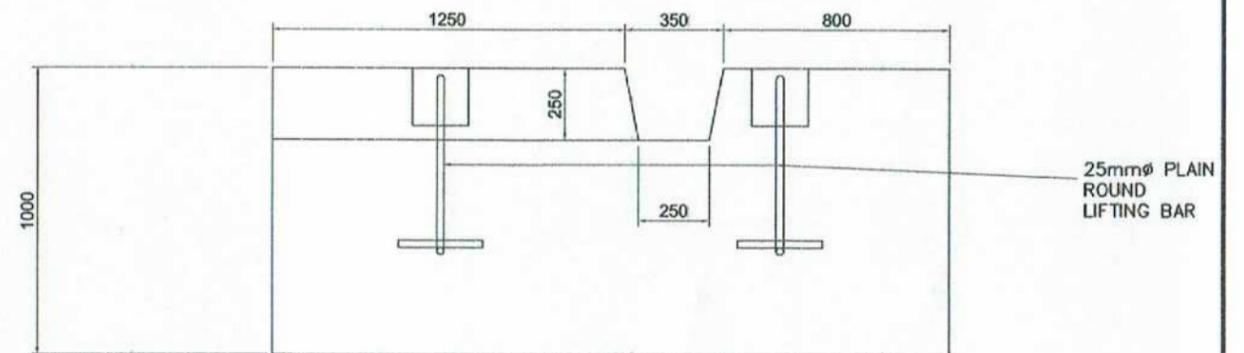


SHORT SIDE VIEW

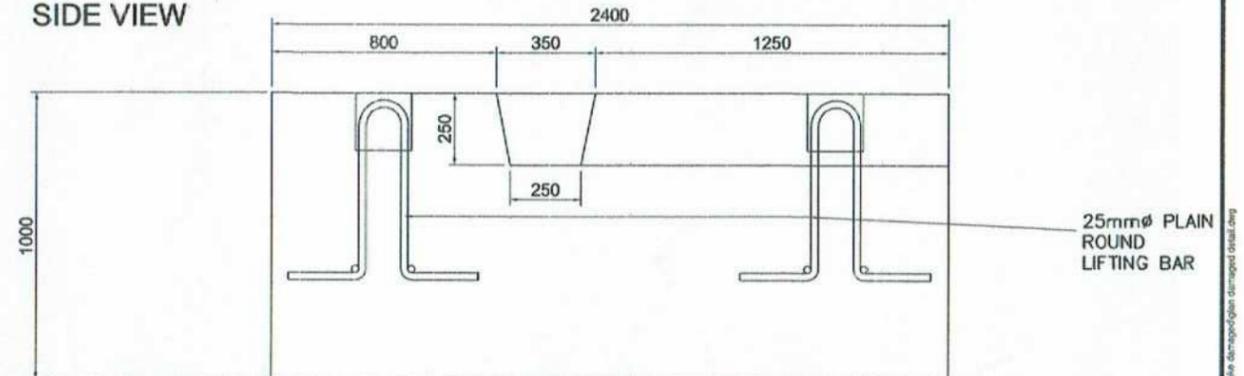
CONCRETE BLOCK DETAIL
SCALE 1:25



TOP VIEW



SIDE VIEW



SIDE VIEW

CONCRETE CORNER BLOCK DETAIL
SCALE 1:25 METERS



PROJECT TITLE
EMERGENCY REPAIR OF SETTLED BACK-UP AND
MANEUVERING AREAS AND CONCRETE PAVEMENT
DAMAGED BY MAGNITUDE 7.2 EARTHQUAKE
LOCATION
PORT OF GLAN, GLAN, SARANGANI PROVINCE

PREPARED BY:
Joe Carlo I. Soriano
JOECARLO I. SORIANO
ENGINEERING ASSISTANT (J.O.)

CHECKED BY:
Charmaine D. Jone Mantoya
CHARMAINE D. JONE MANTOYA
SENIOR ENGINEER A (J.O.)

REVIEWED BY:
Maria Vivien M. Tanco
MARIA VIVIEN M. TANCO
ACTING PRINCIPAL ENGINEER A

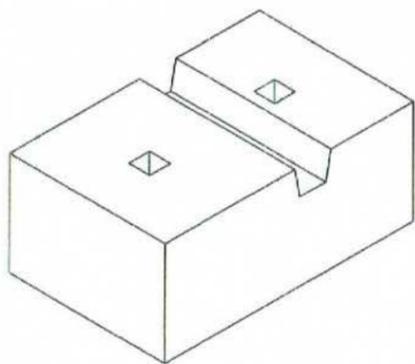
RECOMMENDING APPROVAL:
Jameson L. Lee
JAMESON L. LEE
ESD MANAGER

APPROVED BY:
Atty. Cesar M. Dataya
ATTY. CESAR M. DATAYA
ACTING PORT MANAGER

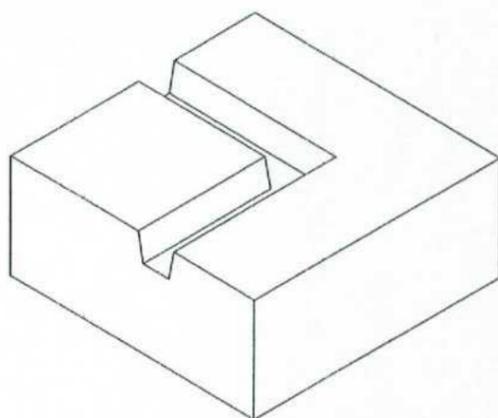
SHEET CONTENT:
1. CONCRETE BLOCK DETAIL
2. CONCRETE CORNER BLOCK
DETAIL

DATE:

5/8

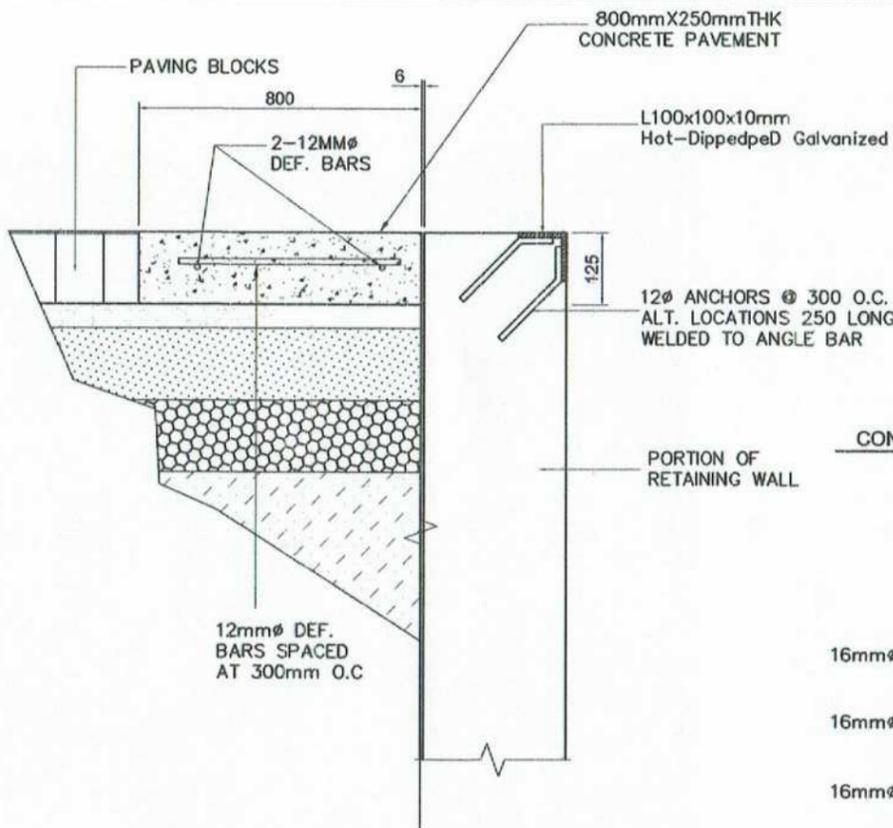


CONCRETE BLOCK



CORNER BLOCK

ISOMETRIC VIEW OF CONCRETE BLOCKS
SCALE 1:80



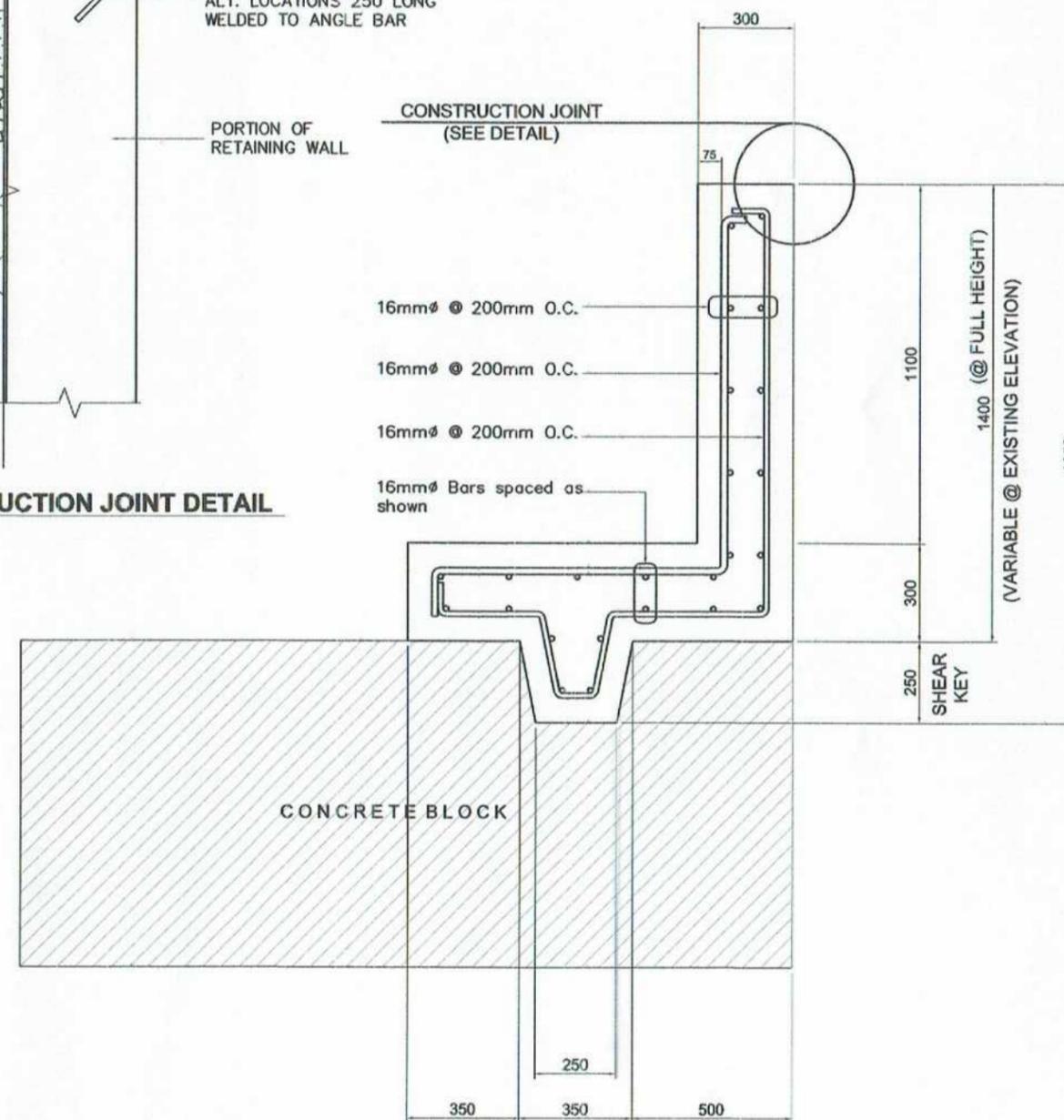
TYPICAL CONSTRUCTION JOINT DETAIL
SCALE 1:15

NOTE:

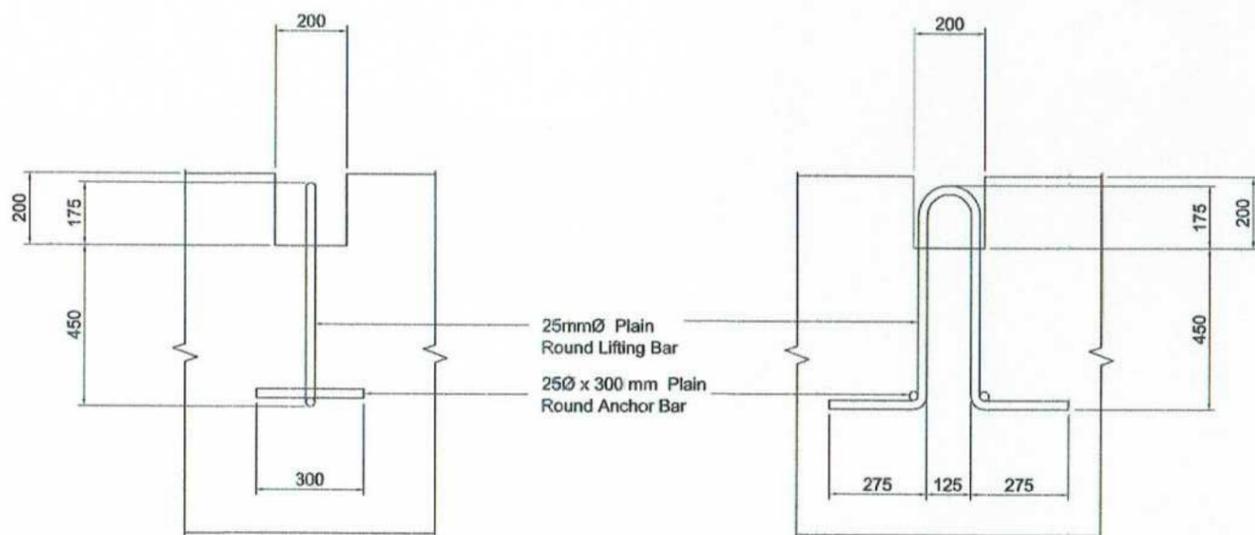
1. CONCRETE COVERING 75mm
2. USE MARINE EPOXY PRIMER (GRAY) TWO COATS TO ALL STEEL BARS PRIOR TO POURING OF CONCRETE.

CONSTRUCTION JOINT
(SEE DETAIL)

- 16mm ϕ @ 200mm O.C.
- 16mm ϕ @ 200mm O.C.
- 16mm ϕ @ 200mm O.C.
- 16mm ϕ Bars spaced as shown



DETAIL OF RETAINING WALL
SCALE 1:20



SIDE SECTION

FRONT SECTION

CONCRETE BLOCK LIFTING HANDLE DETAIL
SCALE 1:20



PROJECT TITLE
EMERGENCY REPAIR OF SETTLED BACK-UP AND
MANEUVERING AREAS AND CONCRETE PAVEMENT
DAMAGED BY MAGNITUDE 7.2 EARTHQUAKE
LOCATION
PORT OF GLAN, GLAN, SARANGANI PROVINCE

PREPARED BY
Joe Carlo I. Soriano
JOE CARLO I. SORIANO
ENGINEERING ASSISTANT (J.O.)

CHECKED BY
Charmaine D. Manto
CHARMAINE DJUNE MANTOYA
SENIOR ENGINEER A (J.O.)

REVIEWED BY
Maria Vivien M. Tanco
MARIA VIVIEN M. TANCO
ACTING PRINCIPAL ENGINEER A

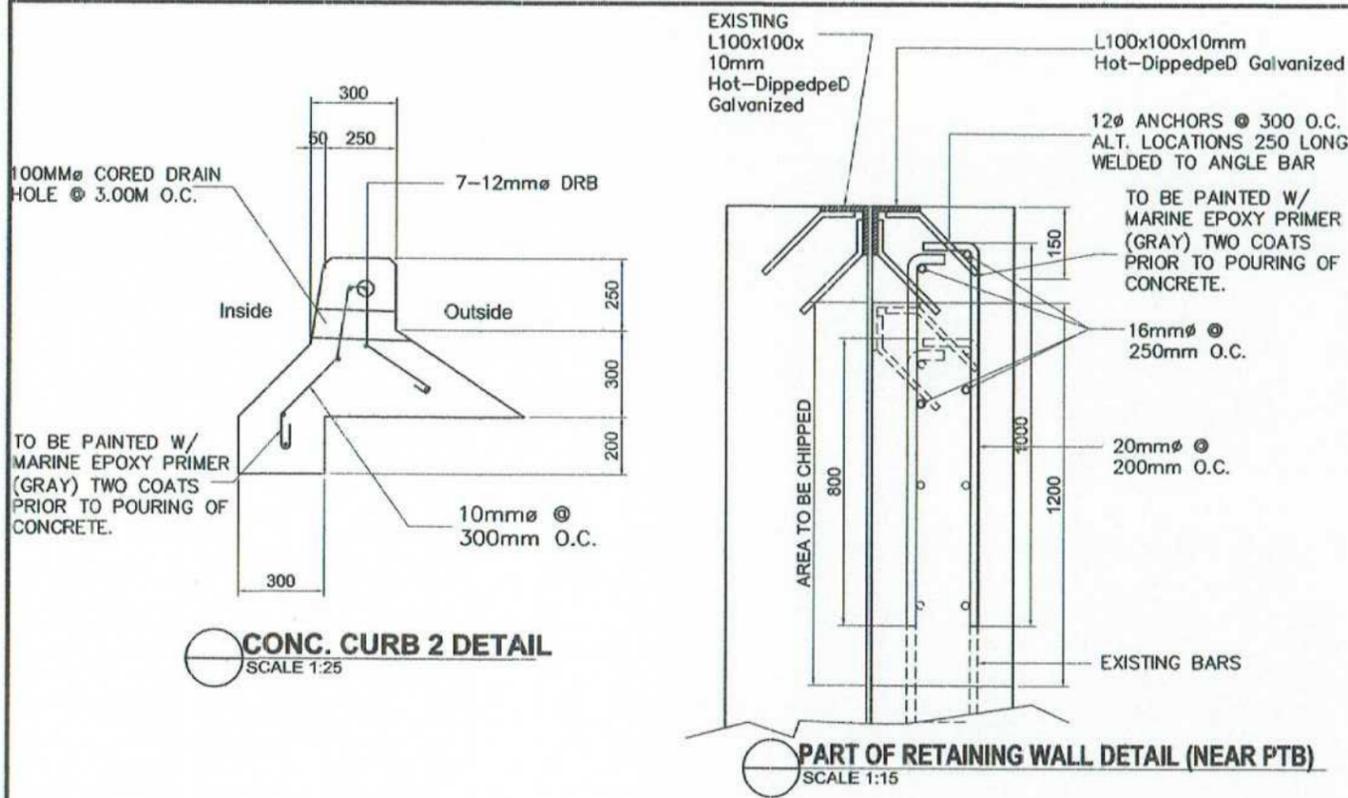
RECOMMENDING APPROVAL
Jameson L. Lee
JAMESON L. LEE
ESD MANAGER

APPROVED BY
Atty. Cesar M. Dattaya
ATTY. CESAR M. DATTAYA
ACTING PORT MANAGER

SHEET CONTENT:
1. ISOMETRIC VIEW OF
CONCRETE BLOCKS
2. CONCRETE BLOCK LIFTING
HANDLE DETAIL
3. DETAIL OF RETAINING WALL
4. TYP. CONSTRUCTION JOINT
DETAIL

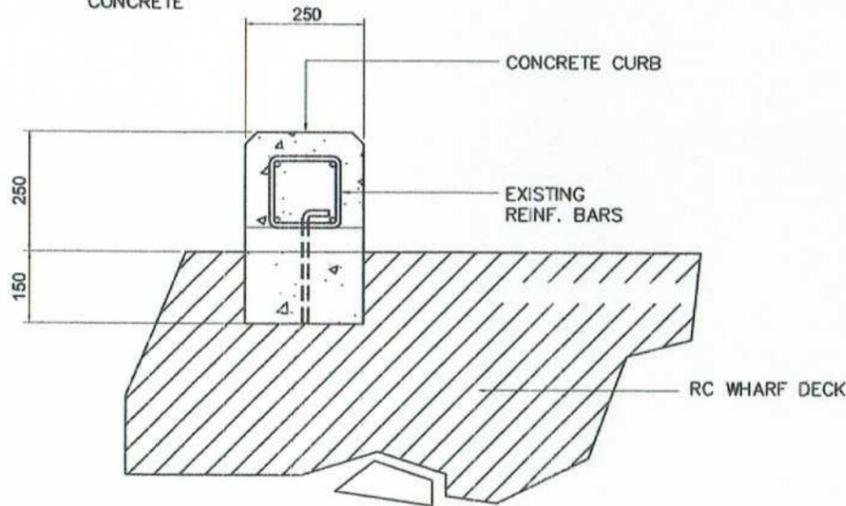
DATE:

6/8



NOTE:

- EXISTING DAMAGED CONCRETE CURB TO BE CHIPPED AND APPLY RUST CONVERTER PRIOR TO POURING OF CONCRETE



SECTION

CONC. CURB 1 DETAIL
SCALE 1:15

Makar Wharf, Brgy. Labangal, General Santos City

Project: Emergency Repair of Settled Back-up and Maneuvering Areas and Concrete Pavement Damaged by Magnitude 7.2 Earthquake

Location: Port of Glan, Glan, Sarangani Province

Cost: Php (contract amount)

Fund Source/s: Corporate Funds

IMPLEMENTING AGENCY: PHILIPPINES PORTS AUTHORITY
 CONTRACTOR: XXXXXXX
 BRIEF DESCRIPTION OF PROJECT: Construction of Back-up Area

PROJECT DETAILS:

DURATION	PROJECT DATE		PROJECT STATUS			REMARKS
	STARTED	TARGET DATE OF COMPLETION	PERCENTAGE OF COMPLETION	AS OF (DATE)	COST INCURRED TO DATE	

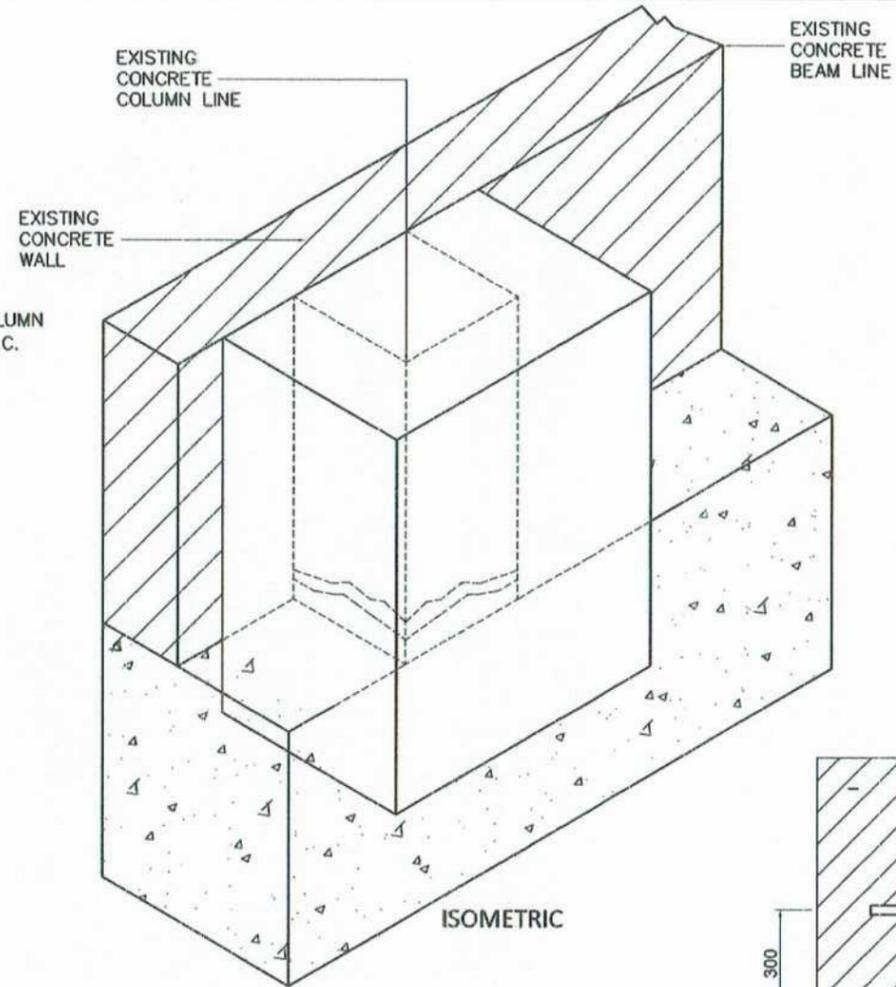
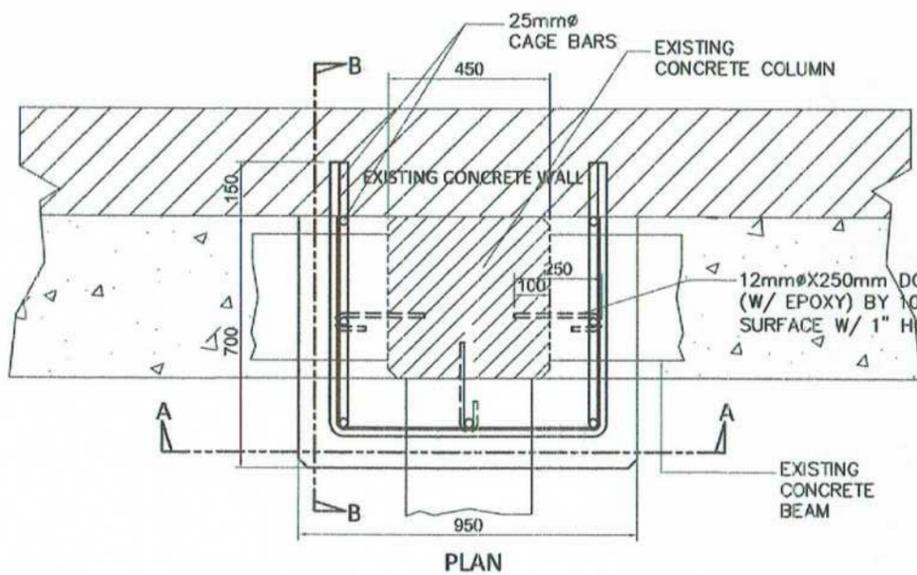
FOR PARTICULARS OR COMPLAINTS ABOVE THIS PROJECT, PLEASE CONTACT THE REGIONAL OFFICE OR CLUSTER WHICH HAS AUDIT JURISDICTION ON THIS PROJECT:

COA REGIONAL OFFICE NO./CLUSTER: _____
 ADDRESS: _____
 CONTACT NO.: _____ OR TEXT COA CITIZEN'S DESK AT 0915-539-1975.

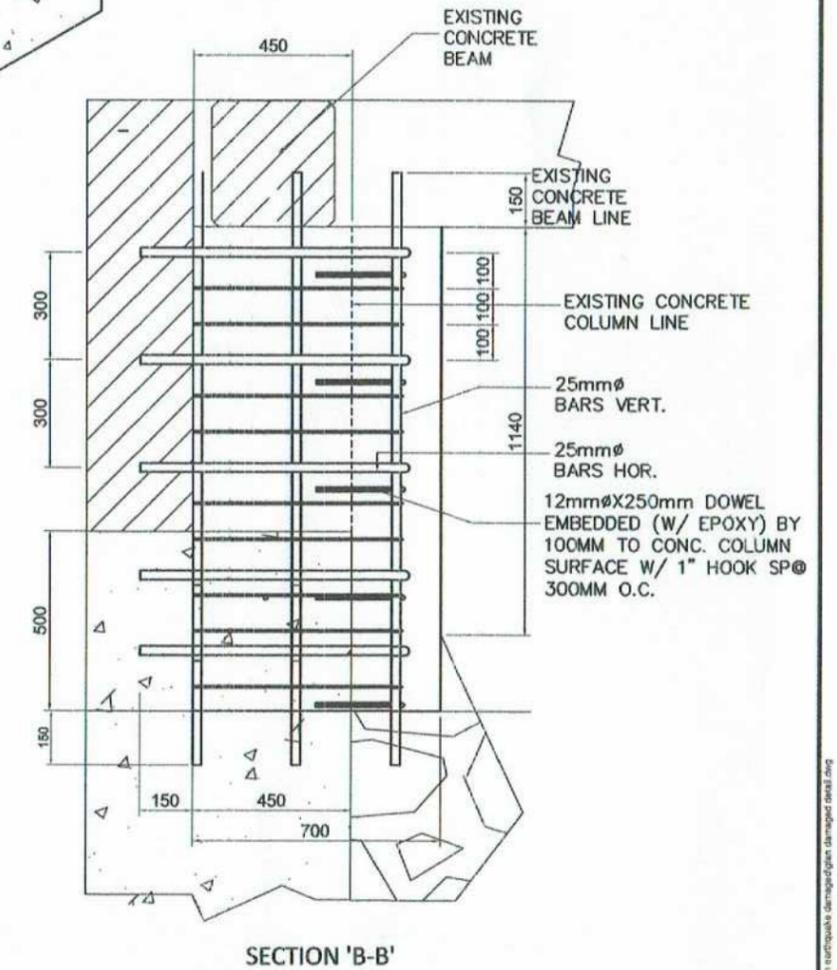
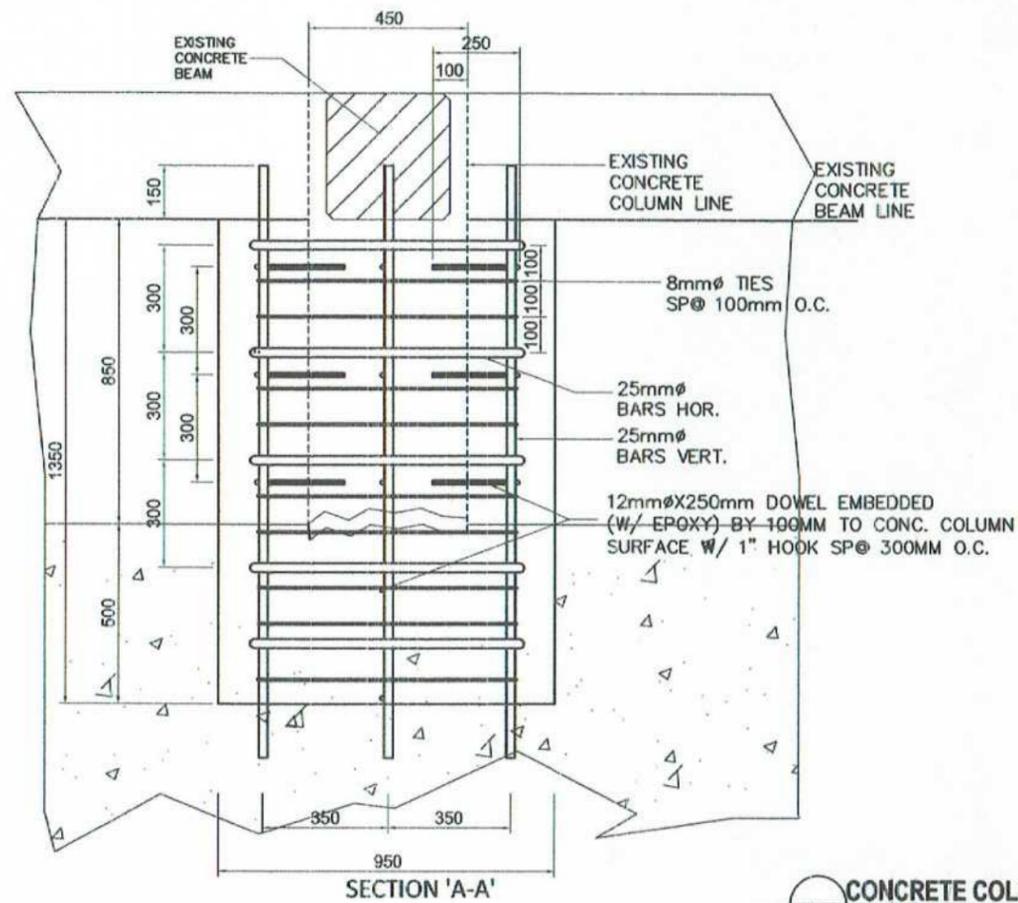
NOTE: TARPAULIN WHITE 8 FEET BY 8 FEET. RESOLUTION: 70 dpi. FONT: HELVETICA. FONT SIZE: MAIN INFORMATION - 3", SUB-INFORMATION - 1". FONT COLOR: BLACK. (BASE ON COA CIRCULAR NO. 2013-004 DATED JANUARY 30, 2013. "INFORMATION AND PUBLICITY ON PROGRAMS / PROJECTS / ACTIVITIES OF GOVERNMENT AGENCIES".

COA STANDARD BILLBOARD DESIGN
SCALE 1:15

<p>PMO - SOCSARGEN</p>	PROJECT TITLE	PREPARED BY:	CHECKED BY:	REVIEWED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT:	DATE:
	EMERGENCY REPAIR OF SETTLED BACK-UP AND MANEUVERING AREAS AND CONCRETE PAVEMENT DAMAGED BY MAGNITUDE 7.2 EARTHQUAKE PORT OF GLAN, GLAN, SARANGANI PROVINCE	JOECARLOT. SORIANO ENGINEERING ASSISTANT (J.O.)	CHARMAINE DJULINE MANTOYA SENIOR ENGINEER (J.O./J.O.)	MARIA VIVIEN M. TANCO ACTING PRINCIPAL ENGINEER A	JAMESON L. LEE ESD MANAGER	ATTY. CESAR M. DATAYA ACTING PORT MANAGER	1. CONCRETE CURB 1 DETAIL 2. CONCRETE CURB 2 DETAIL 3. COA STANDARD BILLBOARD DESIGN	718



NOTE:
1. USE MARINE EPOXY PRIMER (GRAY) TWO COATS TO ALL STEEL BARS PRIOR TO POURING OF CONCRETE.



CONCRETE COLUMN JACKETING DETAIL (3 UNITS TYP.)
SCALE 1:20



PROJECT TITLE
EMERGENCY REPAIR OF SETTLED BACK-UP AND MANEUVERING AREAS AND CONCRETE PAVEMENT DAMAGED BY MAGNITUDE 7.2 EARTHQUAKE
LOCATION
PORT OF GLAN, GLAN, SARANGANI PROVINCE

PREPARED BY
Joecarlo T. Soriano
JOECARLO T. SORIANO
ENGINEERING ASSISTANT (J.O.)

CHECKED BY
Charmaine D. June Manto
CHARMAINE D. JUNE MANTOYA
SENIOR ENGINEER (J.O.) (J.O.)

REVIEWED BY
Maria Vivien M. Tanco
MARIA VIVIEN M. TANCO
ACTING PRINCIPAL ENGINEER

RECOMMENDING APPROVAL
Jameson L. Lee
JAMESON L. LEE
ESQ. MANAGER

APPROVED BY
Atty. Cesar M. Dalaya
ATTY. CESAR M. DALAYA
ACTING PORT MANAGER

SHEET CONTENT:
1. CONCRETE COLUMN JACKETING DETAIL

DATE:

8/8