

TO GEN. SANTOS CITY

TO MARBEL/GENSAN



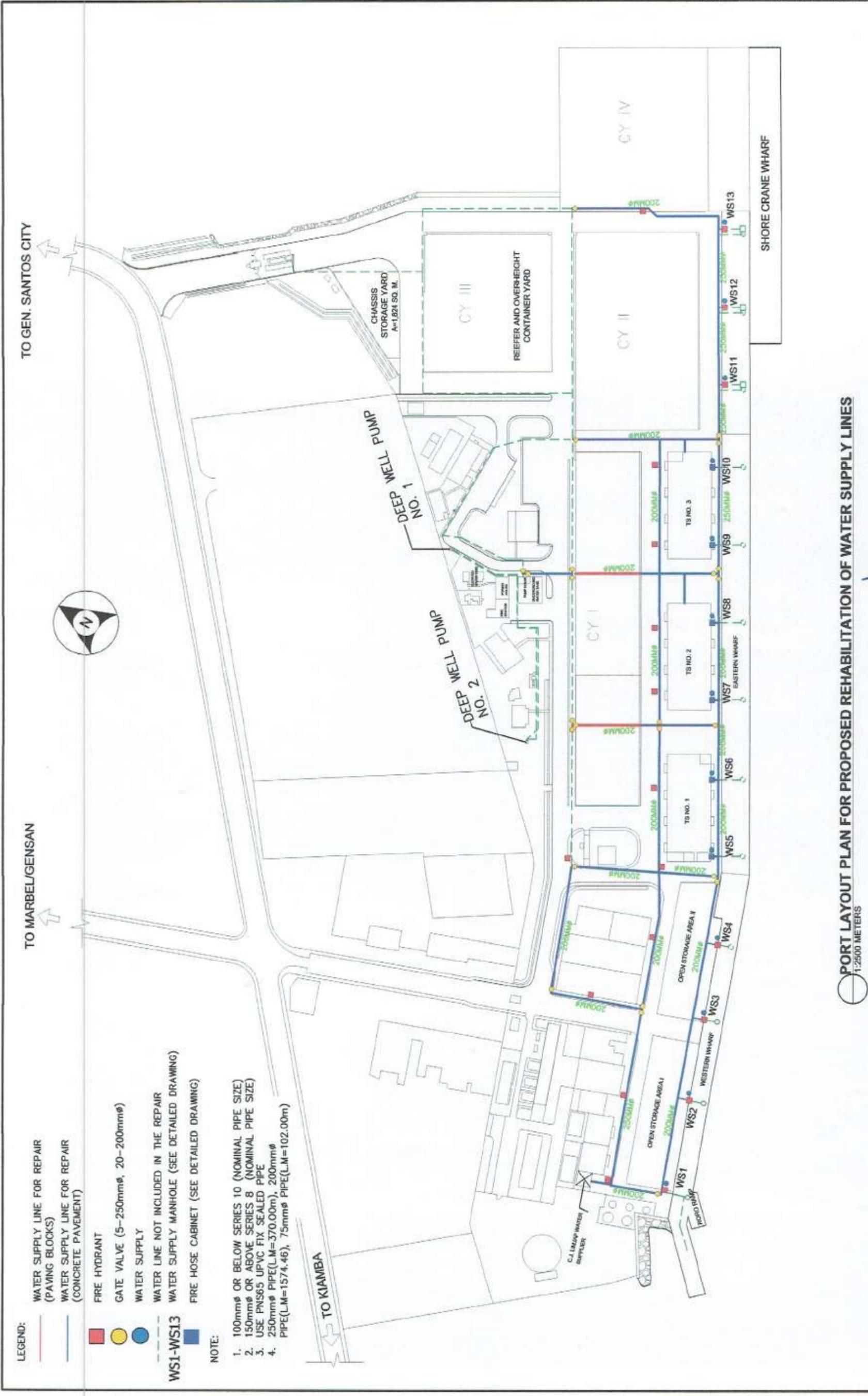
LEGEND:

- WATER SUPPLY LINE
- FIRE HYDRANT
- GATE VALVE
- WATER SUPPLY



EXISTING WATER SUPPLY LINES FOR REPAIR / REHABILITATION
 1:2500

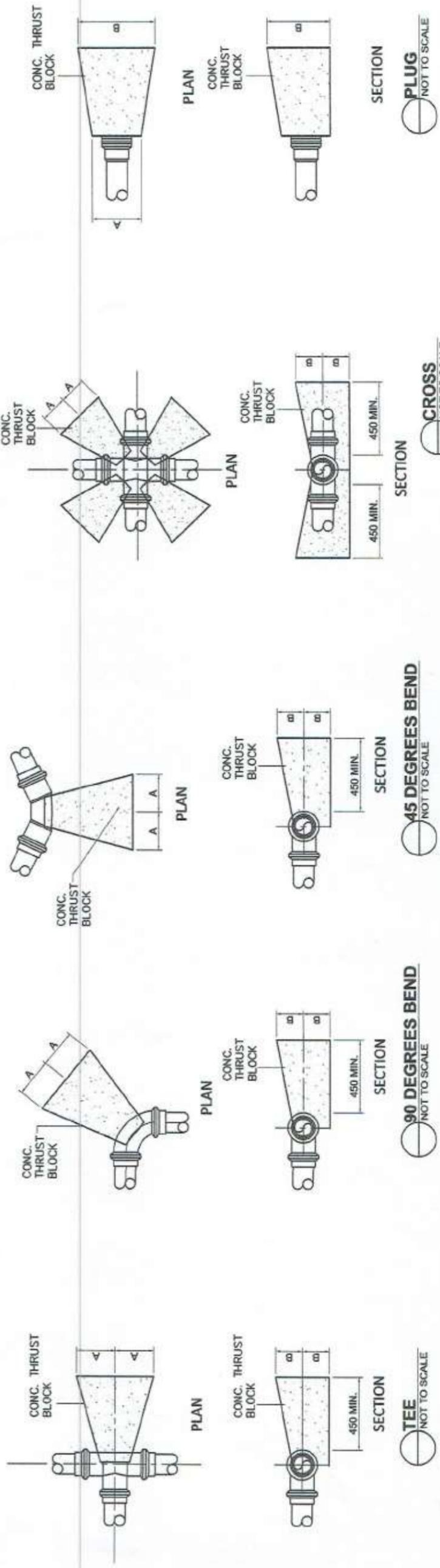
	PROJECT TITLE REPAIR / REHABILITATION OF PORT WATER PIPELINES	PREPARED BY JOE CARLO I. SORIANO ENGINEERING ASSISTANT (J.O.)	CHECKED BY RHEA MAE F. CABRERA SUPERVISING ENGINEER A	REVIEWED BY MARIA VIVIEN M. TANCO PRINCIPAL ENGINEER A	RECOMMENDING APPROVAL JAMESON LEE LEAD MANAGER	APPROVED BY ATTY. CESAR M. DAYA ACTING PORT MANAGER	SHEET CONTENT 1. EXISTING WATER SUPPLY LINES	DATE: 6/18/2018
	LOCATION PORT OF GENERAL SANTOS, MAKAR WHARF, GENERAL SANTOS CITY	PROJECT NO. 243755		SCALE 1:2500		SHEET NO. 177		



- LEGEND:**
- WATER SUPPLY LINE FOR REPAIR (PAVING BLOCKS)
 - WATER SUPPLY LINE FOR REPAIR (CONCRETE PAVEMENT)
 - FIRE HYDRANT
 - GATE VALVE (5–250mm ϕ , 20–200mm ϕ)
 - WATER SUPPLY
 - - - WATER LINE NOT INCLUDED IN THE REPAIR
 - WATER SUPPLY MANHOLE (SEE DETAILED DRAWING)
 - WS1-WS13
 - FIRE HOSE CABINET (SEE DETAILED DRAWING)
- NOTE:**
1. 100mm ϕ OR BELOW SERIES 10 (NOMINAL PIPE SIZE)
 2. 150mm ϕ OR ABOVE SERIES 8 (NOMINAL PIPE SIZE)
 3. USE PNS65 UPVC FIX SEALED PIPE
 4. 250mm ϕ PIPE(L-M=370.00m), 200mm ϕ PIPE(L-M=1574.46), 75mm ϕ PIPE(L-M=102.00m)

PORT LAYOUT PLAN FOR PROPOSED REHABILITATION OF WATER SUPPLY LINES
1:2500 METERS

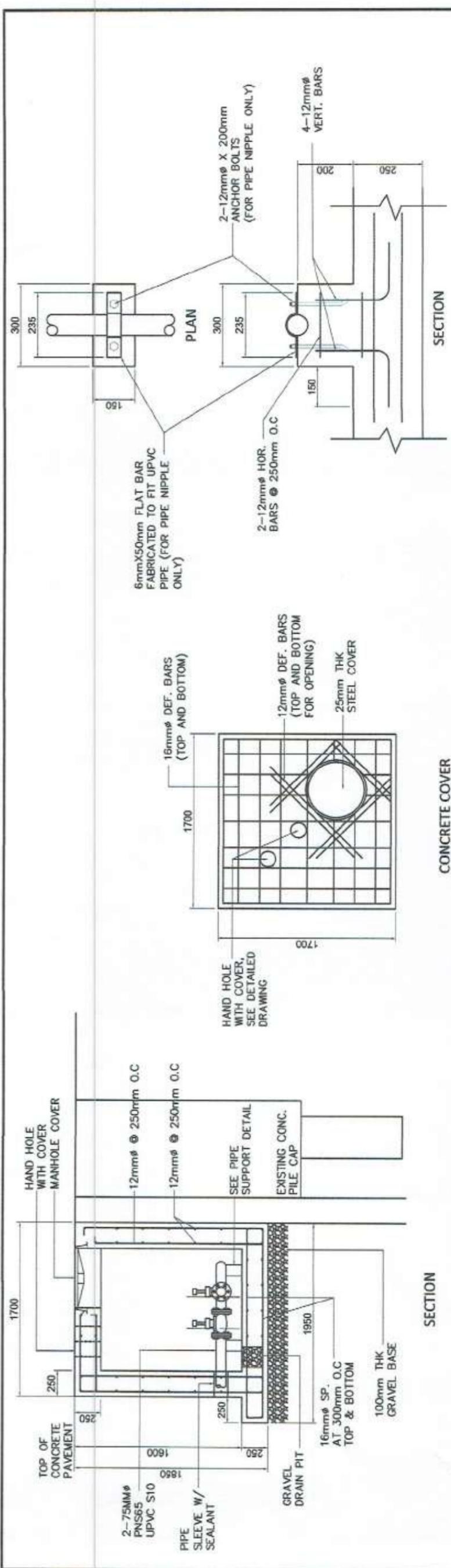
	PROJECT TITLE REPAIR / REHABILITATION OF PORT WATER PIPELINES	CHECKED BY: RHEA MAE CABRERA REGISTERED ENGINEER A	REVIEWED BY: MARIA VIVIEN M. TANACO PRINCIPAL ENGINEER A	RECOMMENDING APPROVAL: JAMESON LEE PEO MANAGER	APPROVED BY: ATTY. CECILIA DATAYA ACTING PORT MANAGER	SHEET CONTENT 1 PORT LAYOUT PLAN FOR PROPOSED REHABILITATION OF WATER SUPPLY LINES	DATE: 9/27/2018
	LOCATION PORT OF GENERAL SANTOS, MAKAR WHARF, GENERAL SANTOS CITY						
							217



CONCRETE THRUST BLOCK DETAIL
NOT TO SCALE

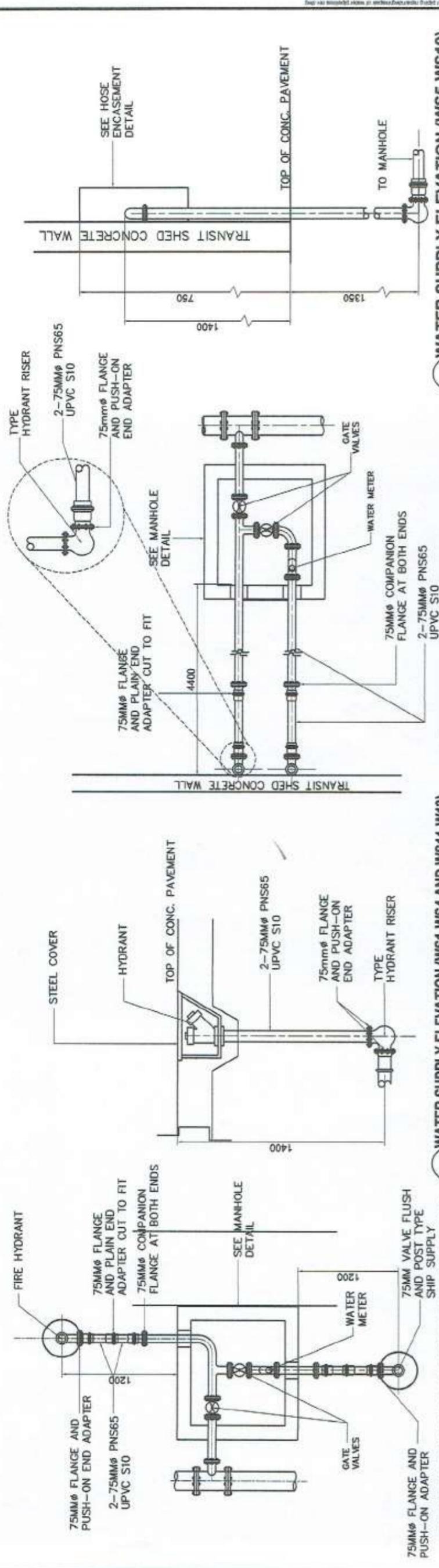
CONC. THRUST BLOCK SCHEDULE										
DIMENSIONS (mm)										
PIPE SIZE (mm)	90° BEND		45° BEND		TEE		CROSS		PLUG	
	A	B	A	B	A	B	A	B	A	B
150	305	255	160	255	255	305	100	300	255	460
200	400	330	225	330	290	365	150	350	305	610
250	510	410	275	410	305	410	200	400	355	765

 PHILIPPINE AUTHORITY	PROJECT TITLE REPAIR / REHABILITATION OF PORT WATER PIPELINES	CHECKED BY  RHEA MAE P. CABRERA SUPERVISING ENGINEER A	REVIEWED BY  MARIA VIVIEN M. TANCO PRINCIPAL ENGINEER A	APPROVED BY  ATTY. CESAR L. DATUYA ACTING PORT MANAGER	SHEET CONTENT 1. CONCRETE THRUST BLOCK DETAIL 2. CONCRETE THRUST BLOCK SCHEDULE	DATE: 6/18/2018
	LOCATION PORT OF GENERAL SANTOS, MAKAR WHARF, GENERAL SANTOS CITY	3/7				



WATER SUPPLY MANHOLE DETAIL (WS1-WS13)
SCALE 1:40

PIPE SUPPORT DETAIL
SCALE 1:15

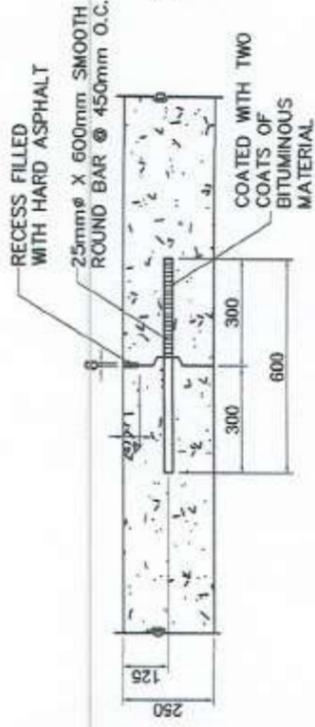
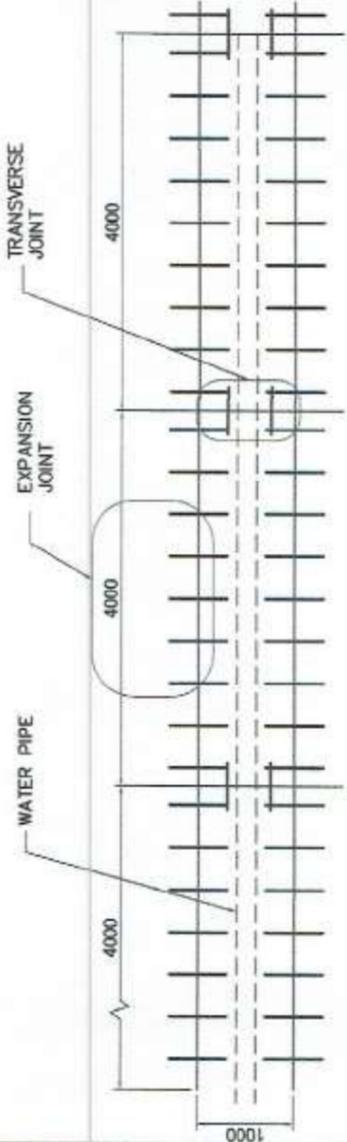


WATER SUPPLY PLAN (WS1-WS4 AND WS11-W13)
SCALE 1:50

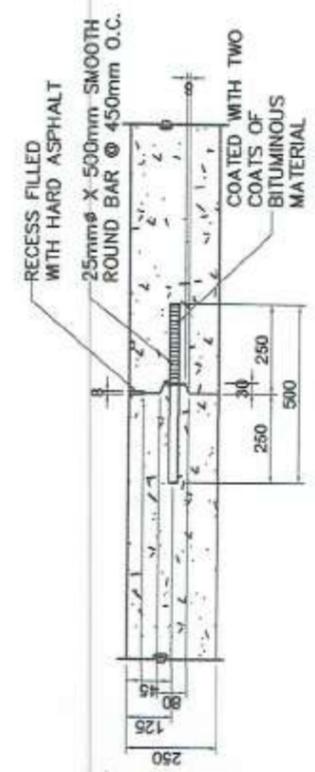
WATER SUPPLY PLAN (WS5-WS10)
SCALE 1:50

WATER SUPPLY ELEVATION (WS5-WS10)
NOT TO SCALE

	PROJECT TITLE REPAIR / REHABILITATION OF PORT WATER PIPELINES	CHECKED BY: RHEA MAE P. CABRERA SUPERVISING ENGINEER A	REVIEWED BY: MARIA VIVIEN M. TANICO PRINCIPAL ENGINEER A	APPROVED BY: ATTY. CESAR M. DARAYA ACTING PORT MANAGER	SHEET CONTENT: 1. WATER SUPPLY MANHOLE DETAIL 2. PIPE SUPPORT DETAIL 3. WATER SUPPLY PLAN AND ELEVATION	DATE: 8/18/2018
	LOCATION PORT OF GENERAL SANTOS, MAKAR WHARF, GENERAL SANTOS CITY					



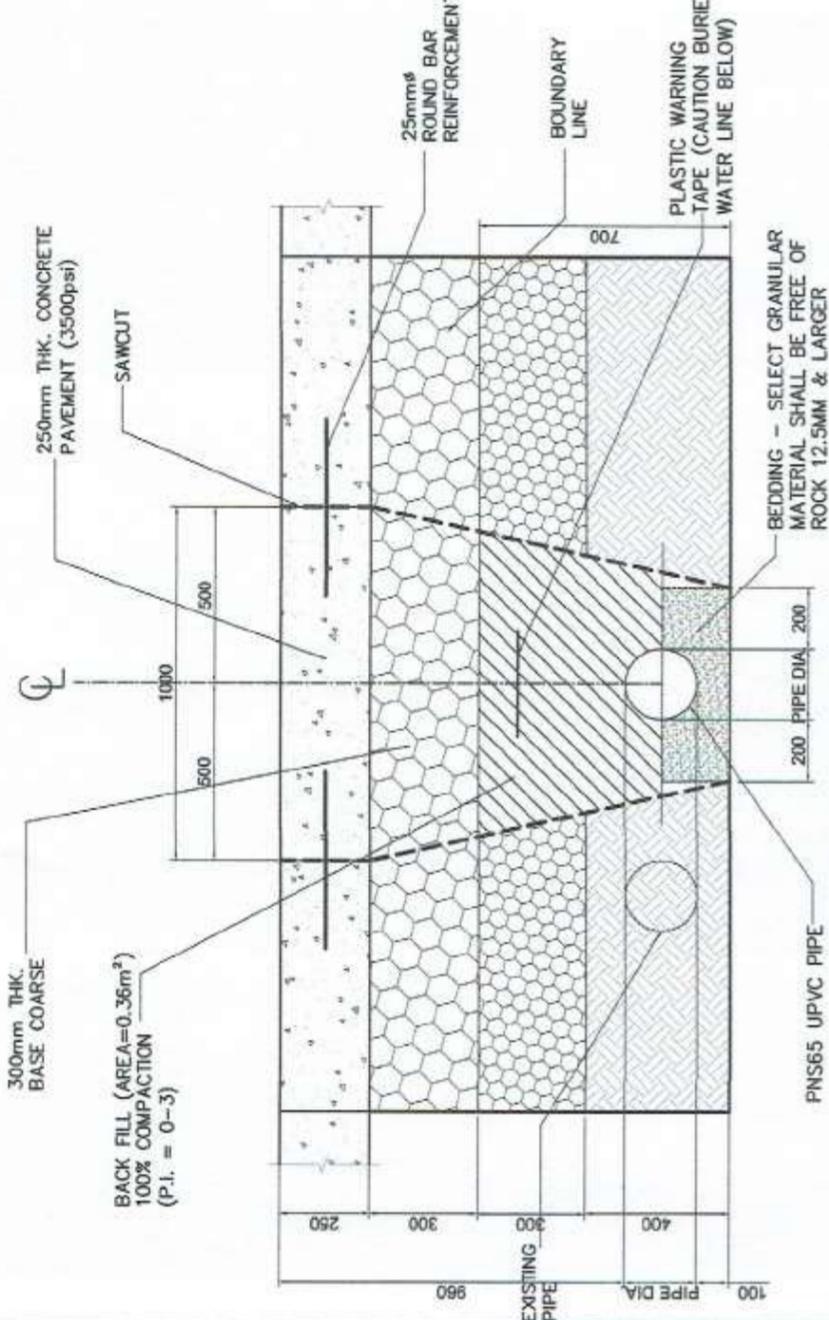
DETAIL OF EXPANSION JOINT
SCALE 1:20



DETAIL OF TRANSVERSE JOINT
SCALE 1:20

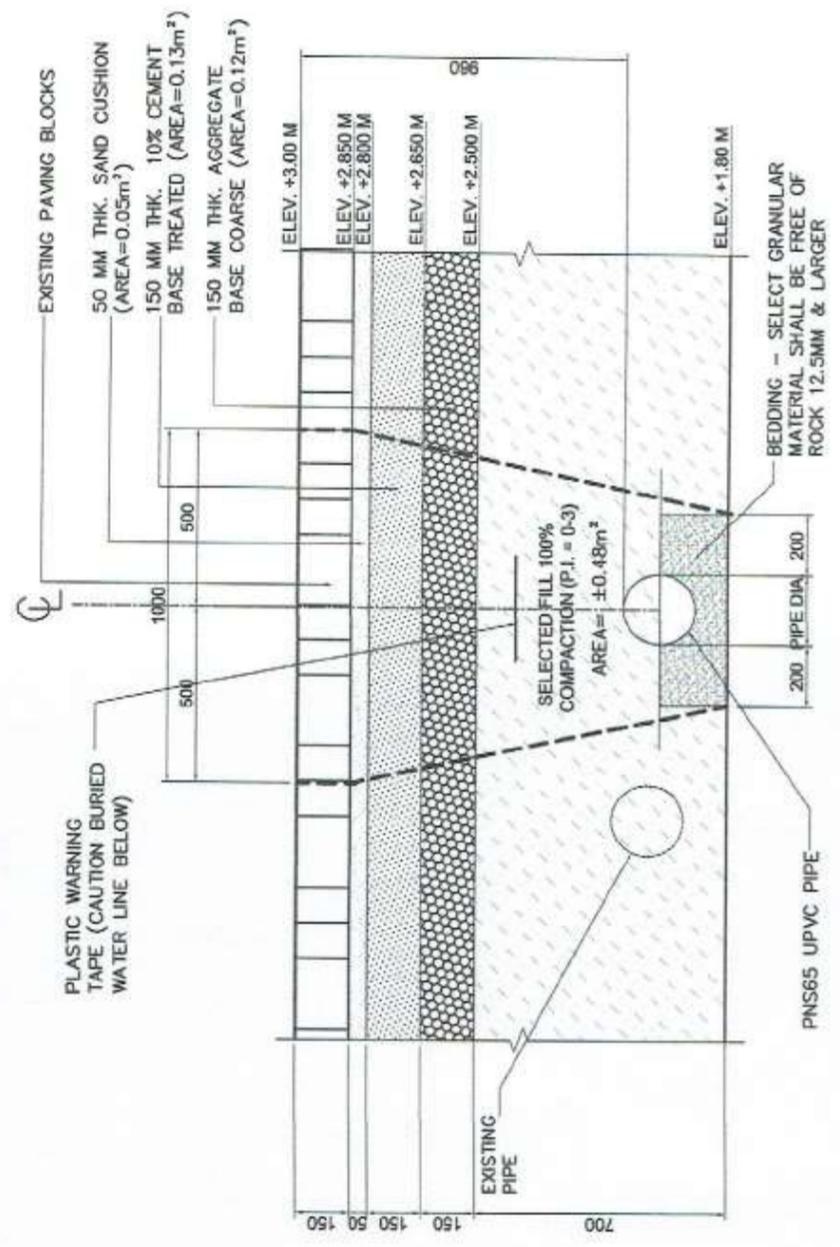
CONCRETE PAVEMENT PART PLAN SHOWING THE REBARS
SCALE 1:75

NOTE:
1. CONCRETE PAVEMENT L.M=1856.46m



CONCRETE PAVEMENT TRENCHING DETAIL
SCALE 1:20

NOTE:
1. PAVING BLOCKS L.M=88.00m



CONC. PAVING BLOCKS TRENCHING DETAIL
SCALE 1:25

	PROJECT TITLE REPAIR / REHABILITATION OF PORT WATER PIPELINES	CHECKED BY: RHENALYN D. CABRERA SUPERVISOR/ENGINEER A	REVIEWED BY: MARIA VIVIEN M. TANCO PRINCIPAL ENGINEER A	RECOMMENDING APPROVAL: JAMESON LEE ENGINEER	APPROVED BY: ATTY. CESAR M. DATU ACTING PORT MANAGER	SHEET CONTENT: 1. TRENCHING DETAIL 2. CONCRETE PAVEMENT PART PLAN SHOWING THE REBARS 3. JOINT DETAIL	DATE: 02/27/2018
	LOCATION: PORT OF GENERAL SANTOS, MAKAR WHARF, GENERAL SANTOS CITY						6/7

