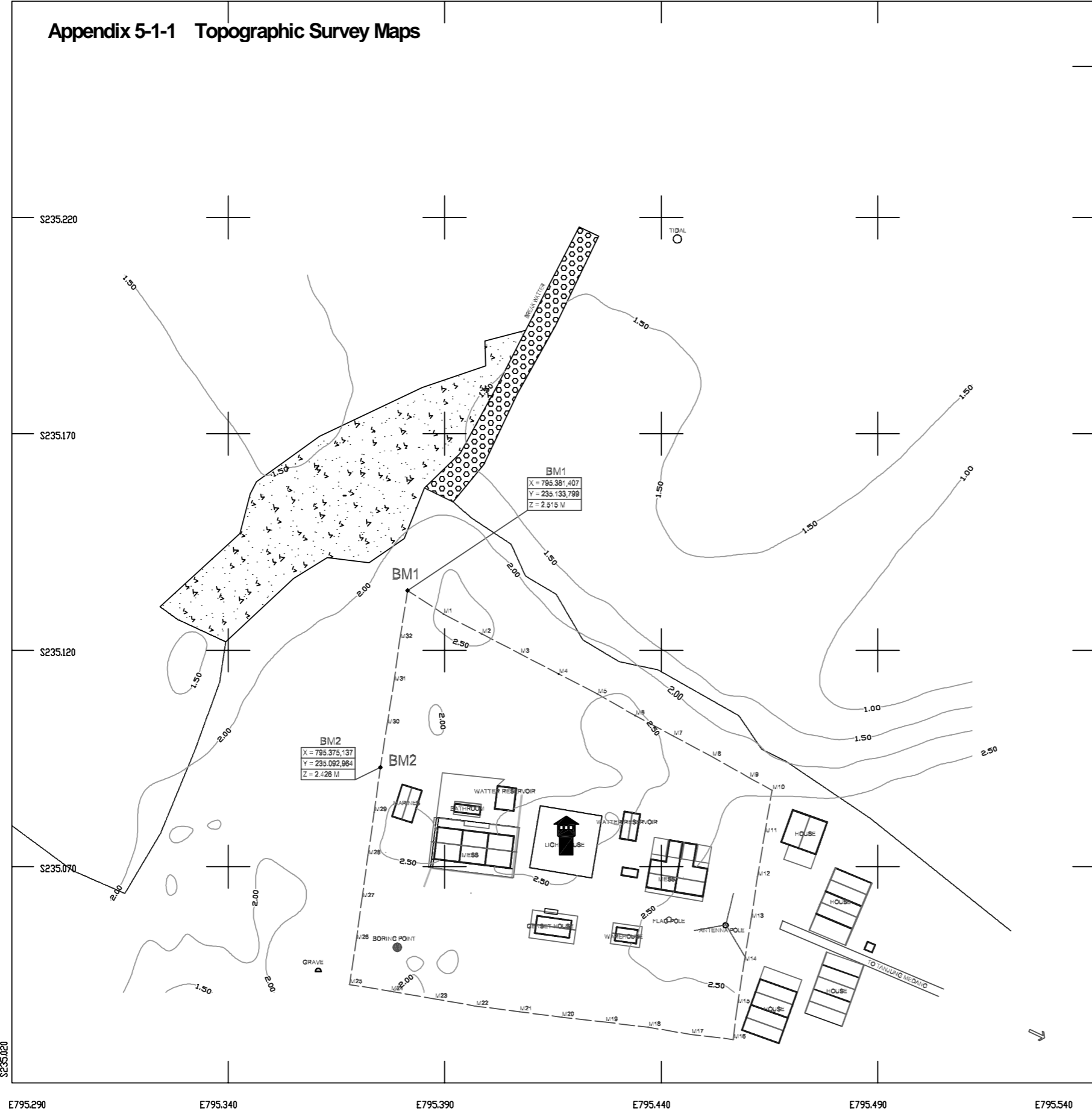


Appendix 5 Other Relevant Data  
 Appendix 5-1 Reference Data

S235.270

Appendix 5-1-1 Topographic Survey Maps



S235.020

E795.290      E795.340      E795.390      E795.440      E795.490      E795.540

TRUE NORTH

GRAPHIC SCALE

Proyeksi	Transvers Mercator
Gridding Sistem	Grid Universal Transvers Mercator
Datum Horizontal	WGS 84
Datum Vertikal	Tidal Observation
levelling	Meter
Contour interval	0.5 Meter

CLIENT :

**PCI**  
PACIFIC CONSULTANS INTERNATIONAL

**JANA**  
JAPAN AIDS TO NAVIGATION ASSOCIATION

CONSULTANT :

**PT. RAYA SURVERINDO** TIPTASARANA  
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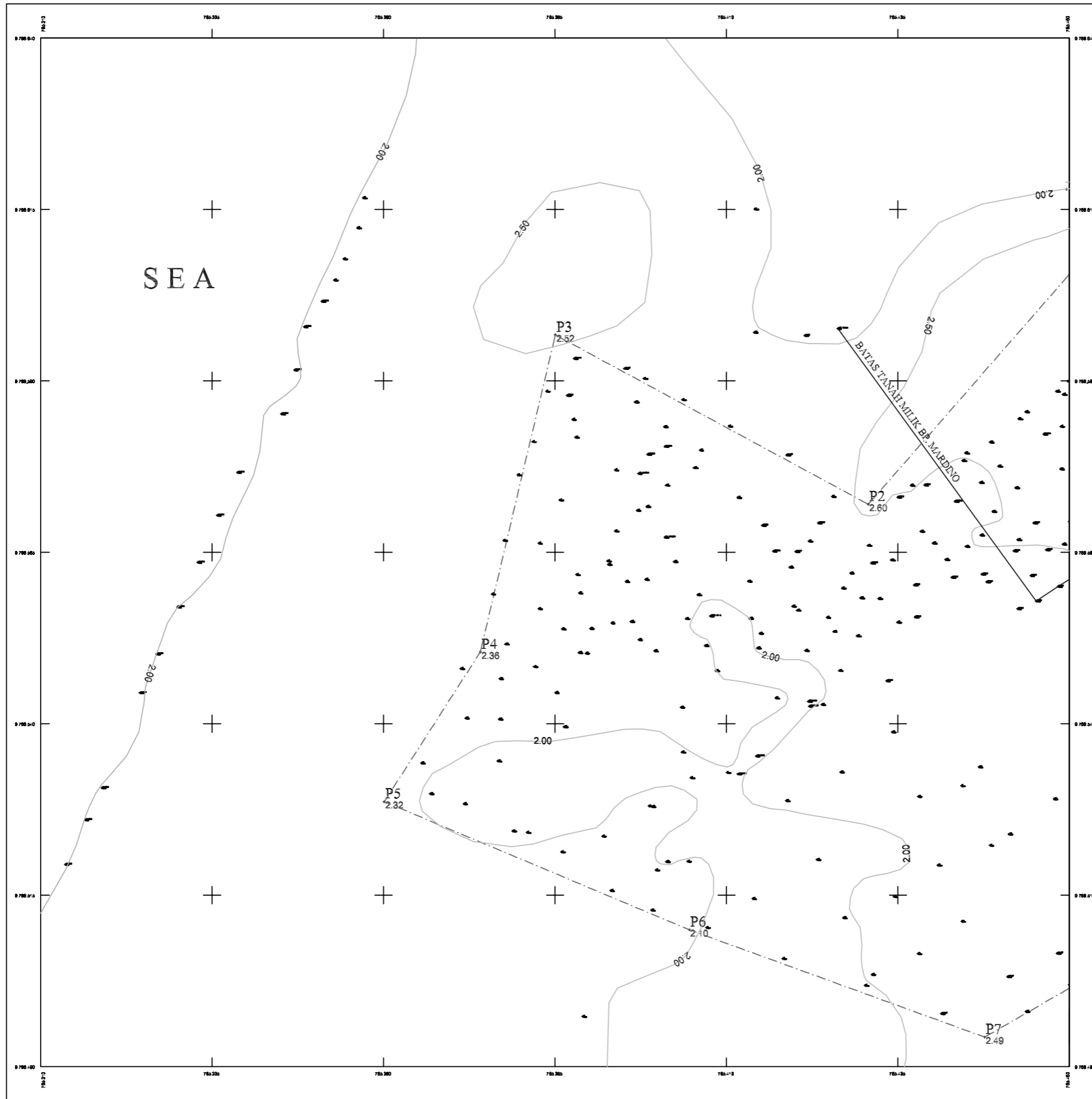
PROJECT :

**TOPOGRAPHIC MAP**  
 For  
**The Basic Design Survey On The  
 Project For Development Of Vessel Traffic  
 Service In Malaka and Singapore Straits**

DRAWING TITLE :

**TOPOGRAPHIC MAP**  
 AT TJ. MEDANG LIGHT HOUSE

SCALE : 1 : 1.000	
DRAWN : SUHARTO	
SURVEYED : RASIDI	
CHEKED : SURANTO	APPROVED : BAMBANG IRAWAN
DRAWING NO. : -----	DATE : 5 FEBRUARI 2009
WORK NO. :	PRINTED DATE :
FILE : TJ_MEDANG_A3.DWG	SHEET : 1 / 1



N  
SCALE 1 : 200  
FORMAT A2

**TOPOGRAPHIC MAP**  
SITUATION TG. SAIR\_A

Projection: Transverse Mercator  
Datum: Universal Transverse Mercator  
Units: Meter  
Scale: 1:200

**LEGEND :**

	Palm, Bush		Road / Asst.
	Well		Barrage
	Cross, Tree		Ditch
	Rubber, Coconut		Hamlet
	Banana		Bridge
	Leveling Point, Elevation		Contour, Internal Contour
	Bench Mark, Reference Point		Porch, Height, Road
	Crestline		Water, Dg.
	River		Sand, Sand Dune
	Canyon		
	Trench, Weir		
	Source of Water, Dam		
	Harbour, Port		

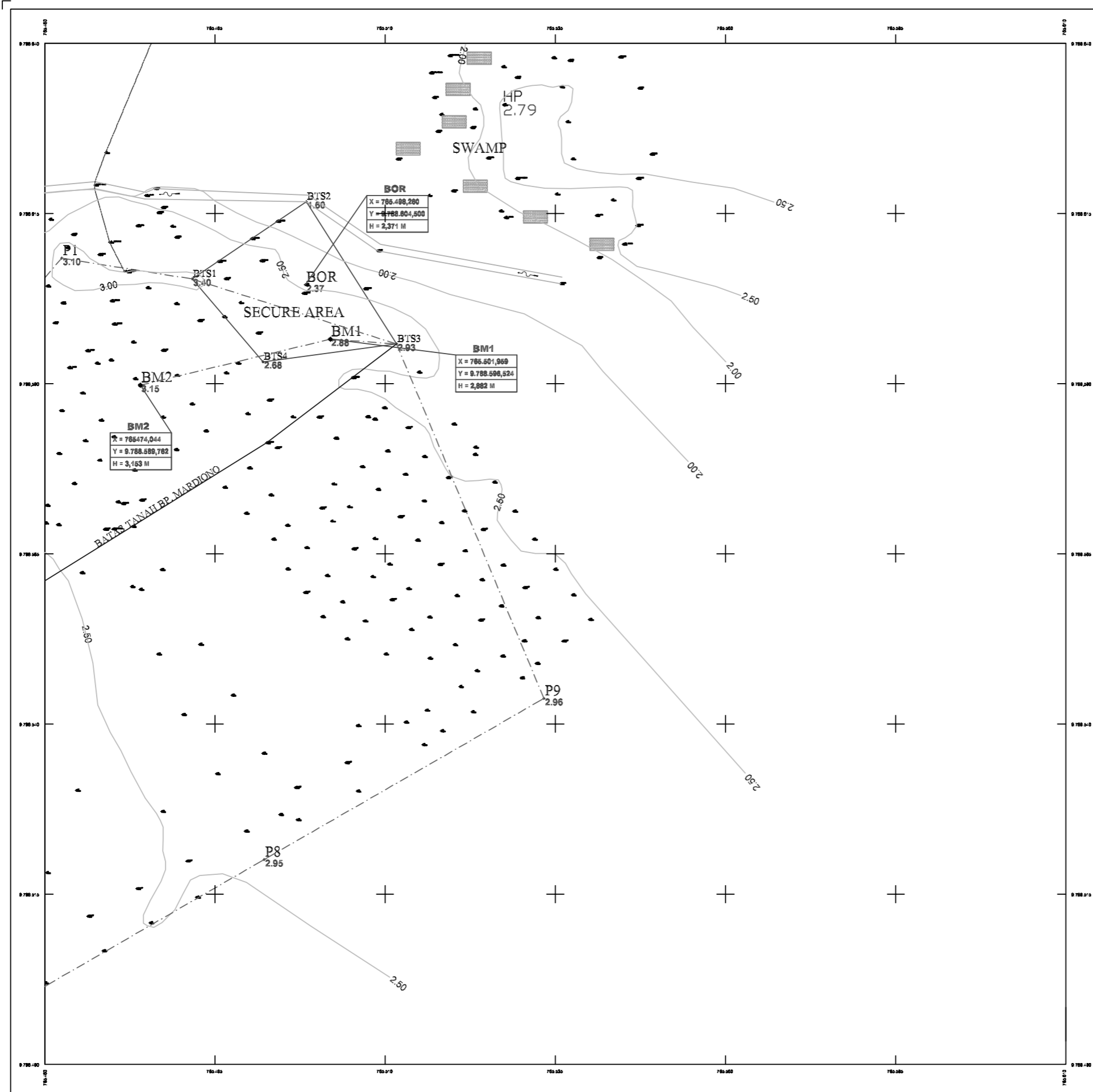
**JICA**  
Japan International Cooperation Agency

**ORICON**

**TOPOGRAPHIC MAP**  
For  
**The Basic Design Survey On The  
Project For Development Of Veisel Traffic Service  
In Malaka and Singapore Straits**

PACKAGE	CONTRACTOR		CONSULTANT	
	CHECK	APPROVED	CHECK	APPROVED
SIGNATURE				
DATE				
SIGNATURE				
DATE				

**PT. RAYA SURVERINDO** TIRTASARANA  
SURVEY, MAPPING, ENGINEERING, CONSULTING  
JL. TUBAGUS ISMAIL VIII NO. 27 BANDUNG  
PHONE 022-2504343, FAX 022-2532988



N  
 SCALE 1 : 200  
 FORMAT A2

**TOPOGRAPHIC MAP**  
 SITUATION TG. SAIR\_B

Projection: UTM  
 Datum: WGS 84  
 Unit: Meter  
 Contour Interval: 0.5 Meter

**LEGEND :**

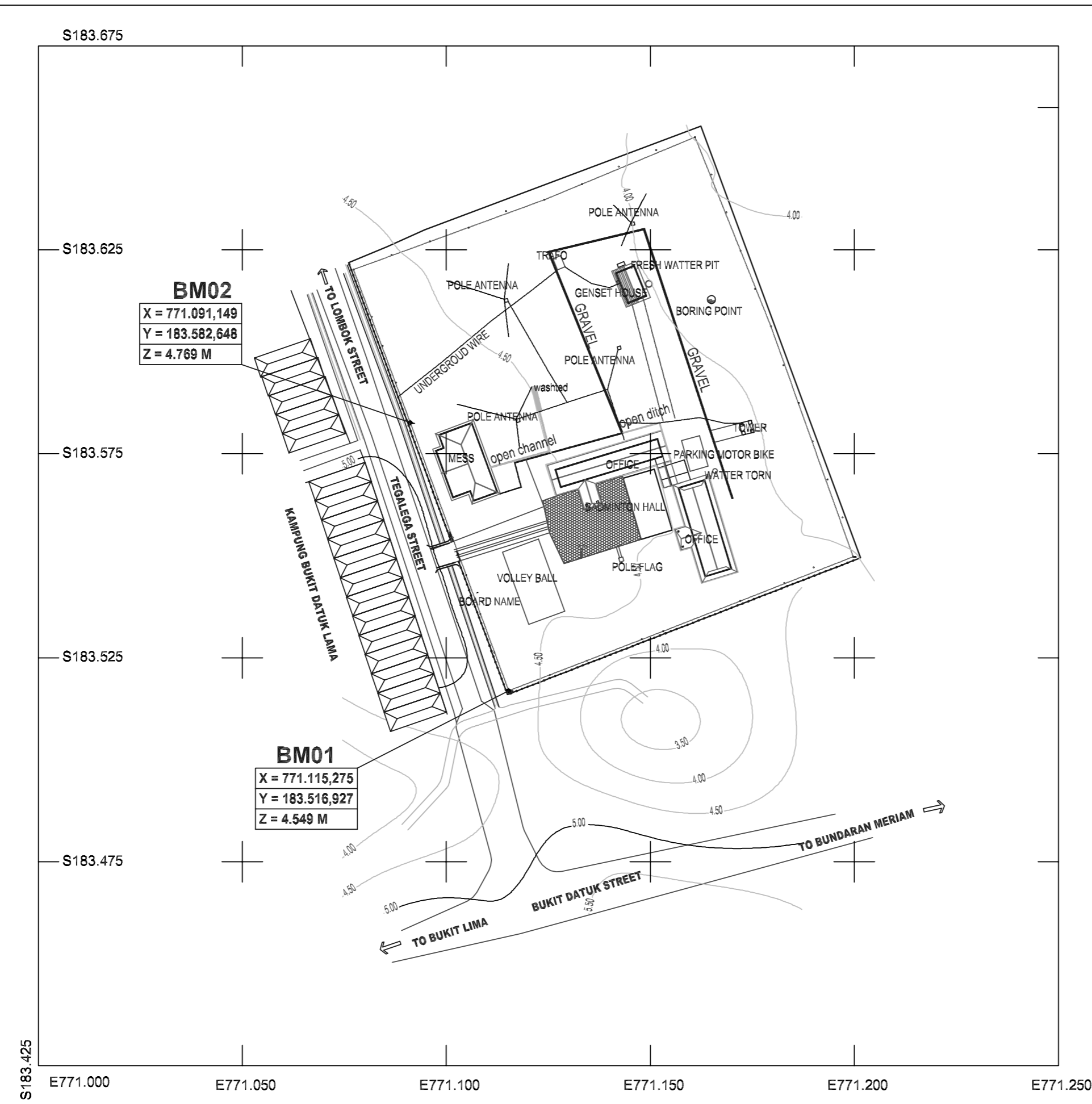
- Bench Mark
- Spot Elevation
- Contour Line
- Swamp
- River
- Canyon
- Intersecting Road
- Source of Water/Dam
- Harbour/Port
- Road/Asphalt
- Stone
- Other
- Bridge
- Contour Interval Control
- Spot Height Road
- Utility Pole
- Sand/Sand Dune



**TOPOGRAPHIC MAP**  
 For  
**The Basic Design Survey On The**  
**Project For Development Of Veisel Traffic**  
**Service In Malaka and Singapore Straits**

PACKAGE	CONTRACTOR		CONSULTANT	
	CHECK	APPROVED	CHECK	APPROVED
SIGNATURE				
DATE				
SIGNATURE				
DATE				

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 JL. TUBAGUS ISMAIL VIII NO. 27 BANDUNG  
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TRUE NORTH

GRAPHIC SCALE

Proyeksi	Transvers Mercator
Gridding Sistem	Grid Universal Transvers Mercator
Datum Horizontal	WGS 84
Datum Vertikal	Tidal Observation
levelling	Meter
Contour interval	1 Meter

CLIENT :

**PCI**  
PACIFIC CONSULTANTS INTERNATIONAL

**JANA**  
JAPAN AIDS TO NAVIGATION ASSOCIATION

CONSULTANT :

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JL. TUBANGLUS ISMAIL VIII NO. 27 BANDUNG  
PHONE 022-2501343, FAX 022-252998

PROJECT :

**TOPOGRAPHIC MAP**  
For  
**The Basic Design Survey On The  
Project For Development Of Vessel Traffic  
Service In Malaka and Singapore Straits**

DRAWING TITLE :

**TOPOGRAPHIC MAP**  
AT DUMAI RADIO STATION

SCALE	: 1 : 1.000
DRAWN	: SUHARTO
SURVEYED	: RASIDI
CHEKED	: SURANTO
APPROVED	: BAMBANG IRAWAN
DRAWING NO.	DATE SEPTEMBER, 2007
WORK NO.	PRINTED DATE :
FILE DUMAI_A3.DWG	SHEET 1 / 1