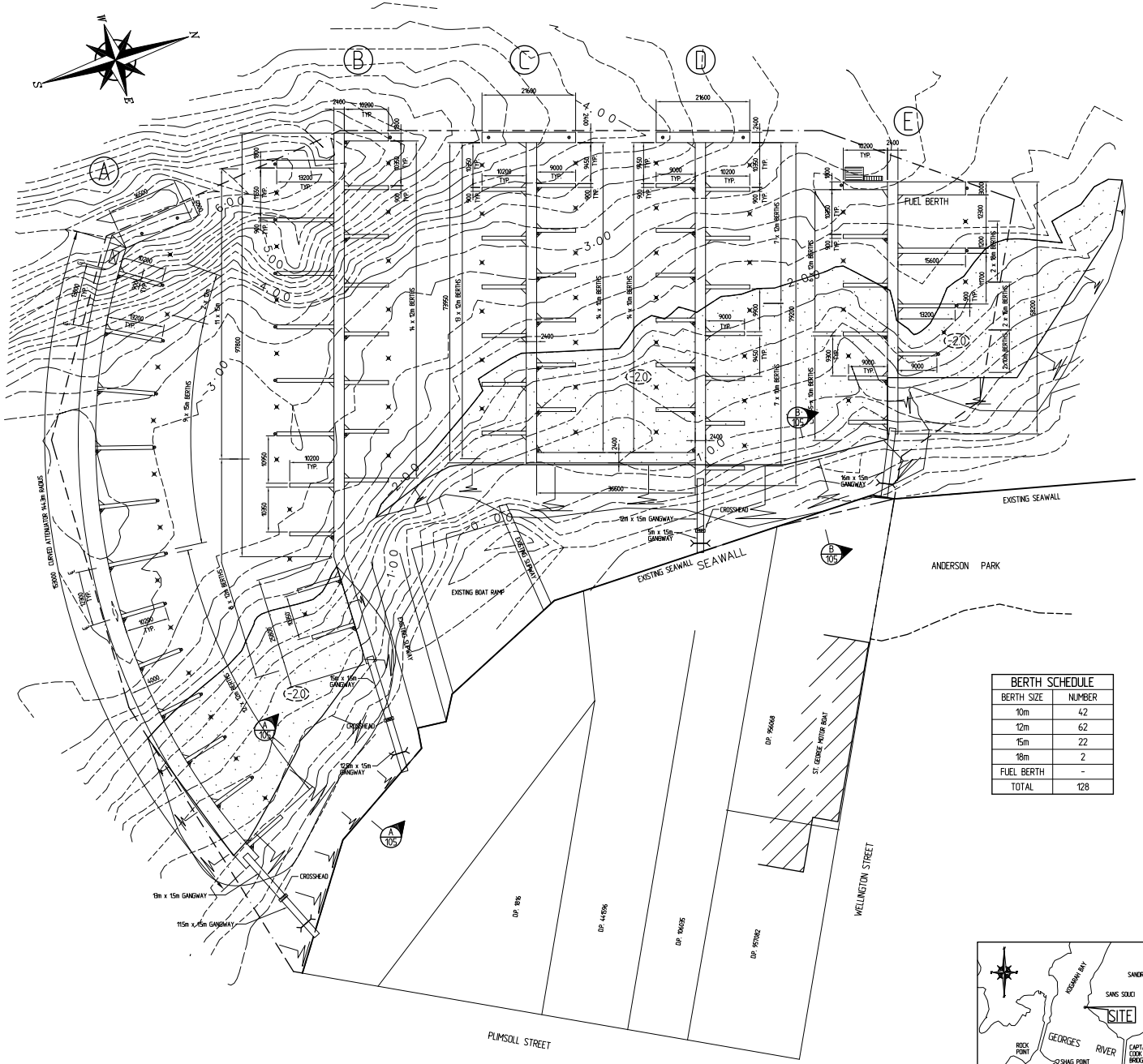


GENERAL NOTES:

1. ALL DIMENSIONS AND LEVELS ARE TO BE VERIFIED ON SITE.
2. WHEN IN DOUBT 'ASK' DO NOT SCALE.
3. ALL DIMENSIONS ARE SHOWN IN MILLIMETRES.
4. ALL LEVELS ARE SHOWN IN METRES AND REDUCED TO ZERO FORT DENISON TIDE GAUGE. BED LEVELS ARE BASED ON THE HYDROGRAPHIC SURVEY UNDERTAKEN BY HARVEY HYDROGRAPHIC SURVEYS IN AUGUST 2000.

ARI 100 YEARS (FLOOD LEVEL)	R.L +2.53m
(HAT)	R.L +2.10m
(MHWS)	R.L +1.60m
(MHWN)	R.L +1.30m
(MSL)	R.L +1.00m
(MLWN)	R.L +0.60m
(MLWS)	R.L +0.30m
(LAT)	R.L +0.00m

5. PILES
   - FOR PILE TYPE REFER PILE SCHEDULE
   - TOLERANCE FOR DRIVING IN PLAN AT MSL +/- 50 mm, MEASURED AS THE WORST COMBINATION OF PLAN DEVIATION AND OUT OF PLUMB OVER THE FULL TIDAL RANGE.
     VERTICAL = 1 IN 75 MAX OUT OF PLUMB
   - CONTRACTOR TO NOTIFY ENGINEER IF BED LEVEL VARIES BY MORE THAN 400mm.
6. PONTOON DIMENSIONS ARE NOMINAL
   - DIMENSIONS ARE MEASURED CONCRETE TO CONCRETE AND DO NOT INCLUDE WALERS.
7. DESIGN PARAMETERS

WIND
- ALL WIND LOADS TO AS 1170.2 AND AS 3962

WAVE
- WAVE CLIMATE FROM LAWSON & TRELOAR " ST. GEORGE MOTOR BOAT CLUB MARINA WAVE CLIMATE STUDIES " REPORT J1900/R1908
- LOCAL SEA (1 in 50 YEAR RETURN)

DIRECTION	H_s (m)	H_1 (m)	T_z(sec)
SSE	0.65	1.09	2.2
S	0.67	1.12	2.2
SSW	0.62	1.04	2.2
SW	0.59	0.99	2.2
W	0.52	0.87	2.2
NW	0.38	0.64	2.2
N	0.14	0.24	2.2

- SWELL
  H_s = 0.40m T_z = 10 TO 15 sec
- BOAT WAKE
  H_s = 0.4m T = 3 TO 4 sec.

TIDAL CURRENT
- VELOCITY = 0.2m/s

PONTOON LIVE LOAD
- MAXIMUM UNIFORM LL = 3kPa
- CONCENTRATED LIVE LOAD 4.5kN

FREEBOARD
- FREEBOARD UNDER DEAD LOAD
  WALKWAY A 550mm TO 620mm
  OTHER WALKWAYS 380mm TO 450mm
- DEPTH OF THE PONTOON UNDER THE GANGWAY SHALL BE SUITABLY INCREASED TO COUNTER-BALANCE THE IMPOSED DEAD LOAD OF THE GANGWAY.

VESSEL SPECIFICATIONS (ALL POWER BOATS)

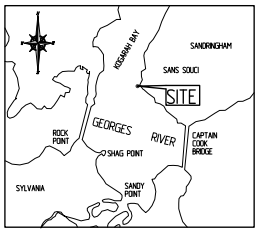
VESSEL LENGTH (m)	WIND PROFILE AREA (m^2) BEAM	WIND PROFILE AREA (m^2) HEAD	DISPLACEMENT (t)
10	22	7	6.0
12	29	11	8.6
15	45	18	13.5
18	64	22	19.4
25	95	30	37.5

BERTH SCHEDULE

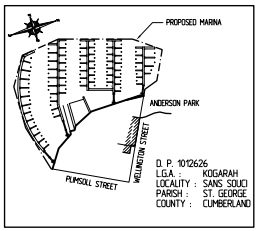
BERTH SIZE	NUMBER
10m	42
12m	62
15m	22
18m	2
FUEL BERTH	-
TOTAL	128

LEGEND :

- LEASE BOUNDARY
- PILE
- MOORING PILE
- RACE TOWER
- CONTOUR
- SECURITY GATE
- DREDGED LEVEL
- DREDGED AREA
- WEIGH STATION



LOCALITY MAP
SCALE N.T.S.



SITE PLAN
SCALE 1 : 4000

0 10 20 30 40 50m
SCALE

FILE NAME : 2125-100
PLOT SCALE : 1 : 500
PLOT DATE : 11/9/00
PATH : G:\PROJECTS\2125\DRAWINGS\TENDER\

FOR APPROVAL

No.	Date	Description	BY	CHK
H	4/5/01	WIDTH OF WALKWAY A INCREASED	J.C.	K.C.
G	20/4/01	BERTH SCHEDULE REVISED	J.C.	C.H.A.
F	23/3/01	REVETMENT TO THE SOUTH OF EXISTING BOAT RAMP ADDED	J.C.	K.C.
E	19/3/01	SECTION A AND B ADDED	J.C.	K.C.
D	7/3/01	GENERAL REVISION	J.C.	C.H.A.
C	22/11/00	RACE TOWER REVISED, WEIGH STATION ADDED	J.C.	K.C.
B	9/11/00	GENERAL REVISION	J.C.	K.S.J.W.
A	27/10/00	ARM E REVISED	J.C.	K.C.

Revisions

This plan is copyright and cannot be used or reproduced without the written permission of International Marina Consultants

International Marina Consultants
Consultants to the Marina Industry.
International Marina Consultants Pty. Ltd.
A.C.N. 079 905 481
Suite 305 "Toowong Tower"
9 Sherwood Road Toowong Qld 4066
Australia
Phone (07) 3371 1711 Fax (07) 3371 1722
Email : imc@imc-marinas.com

Client:
ST. GEORGE MOTOR BOAT CLUB

PROJECT:
UPGRADING OF EXISTING MARINA

Title:
GENERAL ARRANGEMENT

Drawn By: ORIGINAL SIGNED BY J. CHAU	Designed By: ORIGINAL SIGNED BY K. CHAM
Drawing Check: ORIGINAL SIGNED BY K. CHAM	Engineering Check: ORIGINAL SIGNED BY K.S.J. WHITE
Approved: ORIGINAL SIGNED BY C. ABRAHAM	Scale: 1 : 500
Drawing No. 2125-100	Amd.: H