



**LEGEND:**  
INDICATES AREA OF NEW WORK.

**GENERAL NOTES:**  
1. ALL DIMENSIONS IN MILLIMETRES.  
2. ALL SOUNDINGS & ELEVATIONS IN METRES.

**BREAKWATER ALIGNMENT CONTROL**

POINT	EASTING	NORTHING
A (0+000)	309512.84	5444427.02
B (0+33.8)	309479.08	5444427.62
C (0+59.5)	309460.55	5444409.74

**SURVEY NOTES**

SURVEY PARTY CHIEF: RICHARD HEALEY  
 SURVEY VESSEL: ALUMINUM BOAT  
 SURVEY DATES: DECEMBER 15, 2010  
 SOUNDING METHOD: HYDROGRAPHIC  
 SOUNDING DEPTH: 1520 M/4'  
 SOUNDING SYSTEM: NAVISTAR VESSEL SOUND 1520 M/4'  
 POSITONING SYSTEM: NAVISTAR VESSEL SOUND 1520 M/4'  
 LAND SURVEY POSITIONED BY: DGPS (WITH OFF)  
 COORDINATE SYSTEM: UTM  
 TIDE REDUCTION SCHEME: REAL TIME DGPS (WITH OFF)

OFFICE PROCESSOR: EDGEE BEARNS  
 DATE OF PROCESSING: DECEMBER 2010  
 MAKE OF PLACING: ULEAST OF MINIMUM DEPTHS  
 REDUCTION OF WATER CELLS: 2.0 X 2.0

**CONTROL POINTS:**

POINT NO.	MARKING	CD ELEV.
8520004	309202.075	MARTINIS
8520005	309388.178	544752.287
8520006	309550.422	544389.899
8520007	309791.088	544253.736
8520008	309750.009	544322.648

ALL SOUNDINGS & ELEVATIONS REFERRED TO CHS BM 811-106 ELEV. +6890 m (BRASS PLATE IN BEDROCK)  
 SOUNDINGS TAKEN USING ANAGNOSTON 210 ECHO SOUNDER AND POSITIONED BY TRIMBLE DIFFERENTIAL GPS POSITIONING SYSTEM ON DECEMBER 15, 2010 BY PWSS SURVEY CREW.  
 PLANE TABLE SET USING THE NORTH MAGNETIC DECLINATION OF 168.0(168.0) W.  
 BM CHECK AT 1.0 m INTERVALS DOWN TO A DEPTH OF -11.0 m.  
 SOUNDINGS WERE REDUCED BY DISTANCE & RE-CHECKED FROM SOUNDING SPEED OF SOUND WAS OBTAINED USING A DEGRANDI PRO VELOCITYMETER.  
 SOUNDINGS WERE REDUCED USING HATCH MAY VEL. 2010.  
 ALL FIELD NOTES ARE IN VALLEYFIELD BOOK #172.

**LEGEND**

- 1. UNDESIGNED
- 2. UNDESIGNED
- 3. UNDESIGNED
- 4. UNDESIGNED
- 5. UNDESIGNED
- 6. UNDESIGNED
- 7. UNDESIGNED
- 8. UNDESIGNED
- 9. UNDESIGNED
- 10. UNDESIGNED
- 11. UNDESIGNED
- 12. UNDESIGNED
- 13. UNDESIGNED
- 14. UNDESIGNED
- 15. UNDESIGNED
- 16. UNDESIGNED
- 17. UNDESIGNED
- 18. UNDESIGNED
- 19. UNDESIGNED
- 20. UNDESIGNED
- 21. UNDESIGNED
- 22. UNDESIGNED
- 23. UNDESIGNED
- 24. UNDESIGNED
- 25. UNDESIGNED
- 26. UNDESIGNED
- 27. UNDESIGNED
- 28. UNDESIGNED
- 29. UNDESIGNED
- 30. UNDESIGNED
- 31. UNDESIGNED
- 32. UNDESIGNED
- 33. UNDESIGNED
- 34. UNDESIGNED
- 35. UNDESIGNED
- 36. UNDESIGNED
- 37. UNDESIGNED
- 38. UNDESIGNED
- 39. UNDESIGNED
- 40. UNDESIGNED
- 41. UNDESIGNED
- 42. UNDESIGNED
- 43. UNDESIGNED
- 44. UNDESIGNED
- 45. UNDESIGNED
- 46. UNDESIGNED
- 47. UNDESIGNED
- 48. UNDESIGNED
- 49. UNDESIGNED
- 50. UNDESIGNED
- 51. UNDESIGNED
- 52. UNDESIGNED
- 53. UNDESIGNED
- 54. UNDESIGNED
- 55. UNDESIGNED
- 56. UNDESIGNED
- 57. UNDESIGNED
- 58. UNDESIGNED
- 59. UNDESIGNED
- 60. UNDESIGNED
- 61. UNDESIGNED
- 62. UNDESIGNED
- 63. UNDESIGNED
- 64. UNDESIGNED
- 65. UNDESIGNED
- 66. UNDESIGNED
- 67. UNDESIGNED
- 68. UNDESIGNED
- 69. UNDESIGNED
- 70. UNDESIGNED
- 71. UNDESIGNED
- 72. UNDESIGNED
- 73. UNDESIGNED
- 74. UNDESIGNED
- 75. UNDESIGNED
- 76. UNDESIGNED
- 77. UNDESIGNED
- 78. UNDESIGNED
- 79. UNDESIGNED
- 80. UNDESIGNED
- 81. UNDESIGNED
- 82. UNDESIGNED
- 83. UNDESIGNED
- 84. UNDESIGNED
- 85. UNDESIGNED
- 86. UNDESIGNED
- 87. UNDESIGNED
- 88. UNDESIGNED
- 89. UNDESIGNED
- 90. UNDESIGNED
- 91. UNDESIGNED
- 92. UNDESIGNED
- 93. UNDESIGNED
- 94. UNDESIGNED
- 95. UNDESIGNED
- 96. UNDESIGNED
- 97. UNDESIGNED
- 98. UNDESIGNED
- 99. UNDESIGNED
- 100. UNDESIGNED