1
 2
 3
 4
 5
 6
 7
 8
 9
 10
 11
 12

# SHOALHAVEN STANDARD FORESHORE DECK & CANOE LAUNCHING RAMP

#### DRAWING LIST

4671.07 COVER SHEET AND NOTES
4671.08 FORESHORE DECK - PLATFORM PLAN AND DETAILS
4672.09 FORESHORE DECK - SECTION AND DETAILS
4671.10 CANOE RAMP - PLAN
4672.11 CANOE RAMP - SECTION AND DETAILS

## **NOTES**

#### **GENERAL**

- 1. ALL RELEVANT DOCUMENTATION TO BE SUBMITTED & APPROVED BY GOVERNING AUTHORITIES PRIOR TO CONSTRUCTION COMMENCING.
- 2. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ANY DISCREPANCY SHALL BE REFERRED TO THE SUPERINTENDENT BEFORE PROCEEDING WITH THE WORK.
- 3. ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE CURRENT AUSTRALIAN STANDARDS & CODES.
- 4. ALL SETOUT DIMENSIONS SHOWN SHALL BE VERIFIED BY THE CONTRACTOR ON SITE BEFORE WORK COMMENCES. DRAWINGS SHALL NOT BE SCALED FOR DIMENSIONS. PARTICULAR ATTENTION SHOULD BE PAID TO THE RIVER BANK PROFILE WHICH MAY HAVE BEEN SUBJECTED TO EROSION SINCE THE DATE OF SURVEY.
- 5. DURING CONSTRUCTION THE STRUCTURE SHALL BE MAINTAINED IN A STABLE CONDITION AND NO PART SHALL BE OVERSTRESSED. TEMPORARY BRACING AND BATTERS SHALL BE PROVIDED BY THE CONTRACTOR TO KEEP THE WORKS AND EXCAVATIONS STABLE AT ALL TIMES.
- 6. THE CONTRACTOR SHALL PROVIDE STRUCTURAL CERTIFICATION OF THE STRUCTURES ALONG WITH TEST CERTIFICATES FROM A N.A.T.A. APPROVED TESTING LABORATORY CERTIFYING THAT THE MATERIALS USED COMPLY WITH THE RELEVANT SPECIFICATIONS.
- 7. UNLESS NOTED OTHERWISE ALL LEVELS ARE IN METRES RELATIVE TO AUSTRALIAN

### REPLAS PROFILES (OR EQUAL)

- 1. PREPARE, CUT, FIX & INSTALL REPLAS PROFILES & DECKING AS PER SUPPLIERS INSTALLATION INSTRUCTIONS.
- 2. REPLAS PRODUCTS ARE NOT STRUCTURAL. IF VOIDS ARE PRESENT BELOW THE STRUCTURE THE PRODUCT MAY FLEX. ENSURE JOISTS AND BEARERS ARE WELL SUPPORTED.

## FOOTINGS (WHERE REQUIRED)

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EACH SITE IS SPECIFIC. INVESTIGATE GROUND CONDITIONS TO DETERMINE APPROPRIATE FOOTING OR PILING TYPE PRIOR TO COMMENCING WORK.

## **PILING**

- 1. REFER ALSO TO TIMBER NOTES FOR NOTES RELEVANT TO TIMBER PILES.
- 2. PILING WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH AS 2159 AND TO THE REQUIREMENTS SPECIFIED BELOW AND ON THE DRAWING.
- 3. THE CONTRACTOR SHALL MAINTAIN A COPY OF AS 2159 ON SITE AT ALL TIMES DURING THE CONTRACT PRIOD.
- 4. PRIOR TO INSTALLATION OF PILES THE CONTRACTOR SHALL PROBE THE PROPOSED PILE LOCATIONS IN ORDER TO ASSESS SEABED AND ROCK LEVELS. RESULTS OF PROBING SHALL BE MADE PROMPTLY AVAILABLE TO THE SUPERINDENT.
- 5. ALL PILE TOES AND HEADS MUST BE PREPARED BY THE CONTRACTOR TO ENSURE THAT THEY WILL NOT BE DAMAGED DURING INSTALLATION. THE CONTRACTOR WILL BE REQUIRED TO SATISFY THE SUPERINTENDENT OF THIS FOR THE PARTICULAR TYPE OF PILE AND METHOD OF INSTALLATION SELECTED.
- 6. PILES SHALL BE HANDLED AND INSTALLED IN ACCORDANCE WITH THE PROVISIONS OF AS 2159.
- 7. THE CONTRACTOR SHALL MAINTAIN RECORDS FOR ALL PILES AS REQUIRED UNDER THE PROVISIONS OF OF AS 2159.
- 8. ACCURATE RECORDS OF ROCK LEVELS AND FOUNDING LEVEL OF PILES SHALL BE KEPT (AND MADE AVAILABLE TO THE SUPERINTENDENT).
- 9. PILES SHALL BE INSTALLED TO THE MINIMUM EMBEDMENT SHOWN ON THE DRAWINGS AND IN ADDITIONAL SHALL BE DRIVEN TO A FINAL SET SUCH THAT THE PILES HAVE AN ULTIMATE AXIAL CAPACITY AS SPECIFIED ON THE DRAWINGS. PRIOR TO UNDERTAKING PILING WORKS THE CONTRACTOR SHALL SUPPLY CALCULATIONS FOR THE REQUIRED SET FOR APPROVAL BY THE
- 10. PILES SHALL BE DRIVEN SUCH THAT THE PILE AXIS IS WITHIN 100mm OF THE SPECIFIED PLAN POSITION INDICATED ON THE DRAWINGS MEASURED AT THE PILE HEAD. VARIATION FROM VERTICALITY OR THE RAKE SPECIFIED SHALL NOT EXCEED 1 IN 50. VARIATION FROM THE SPECIFIED ELEVATION OF TOP OF PILES SHALL BE WITHIN 10mm AND THE PILE HEAD SHALL BE CUT SQUARE TO THE PILE AXIS UNLESS SHOWN OTHERWISE ON THE DRAWINGS.
- 11. THE CONTRACTOR SHALL ENSURE THAT THEIR CONSTRUCTION METHOD DOES NOT OVERSTRESS ANY ELEMENT OF THE WORKS, AND IN DETERMINING THEIR PROPOSED CONSTRUCTION METHOD THEY SHALL GIVE DUE CONSIDERATION TO THE EFFECTS OF NOISE AND VIBRATION ON THE SURROUNDING ENVIRONMENT.
- 12. ALL PILES SHALL BE INSTALLED UNDER PERIODIC INSPECTION OF THE SUPERINTENDENT. THE CONTRACTOR SHALL GIVE ONE WORKING DAYS NOTICE OF THEIR INTENTION TO DRIVE SO THAT THE SUPERINTENDENT CAN ARRANGE FOR ATTENDANCE.
- 13. ANY PILES WHICH ARE DAMAGED DURING THE EXECUTION OF THE WORKS BY THE CONTRACTOR, OR WHICH DO NOT COMPLY WITH THE SPECIFIED TOLERANCES SHALL BE MADE GOOD OR REPLACED AS THE SUPERINTENDENT

#### **TIMBER**

- 1. ALL TIMBER DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH AS 1720
- 2. CERTIFICATES THAT CERTIFY TIMBER TYPE SHALL BE SUBMITTED TO THE SUPERINTENDENT PRIOR TO DELIVERY.
- 3. SAWN TIMBER SHALL BE HARDWOOD DURABILITY CLASS I OR II GRADE F17 UNLESS NOTED OTHERWISE. ALL PILES TO BE DOUBLE TREATED HARDWOOD F27 UNLESS NOTED OTHERWISE.
- 4. TIMBER SHALL BE SELECTED FROM THE FOLLOWING SPECIES:

RAILING - USE TALLOWWOOD, WHITE MAHOGANY, GREY BOX OR YELLOW STRINGYBARK.

- TIMBER WITH ANY PART BELOW RL +0.6 AHD TO BE DOUBLE TREATED TURPENTINE.
- 5. THE PART OF A DOUBLE TREATED PILE ABOVE THE DECK LEVEL SHALL BE CLEANED OF ANY SURFACE DEPOSITS WITH WATER AND STEEL BRISTLE BRUSH DOWN TO DECK LEVEL. THE SECTION OF PILE ABOVE DECK LEVEL SHALL THEN BE ALLOWED TO WEATHER FOR AT LEAST SEVEN DAYS, AND THEN PAINTED WITH 2 COATS OF AN ALUMINIUM BASED ROOFING PAINT (AS A SEALER), PAINTED WITH A FLAT UNDERCOAT AND THEN 2 TOP COATS OF A GOOD QUALITY APPROVED EXTERNAL GLOSS ENAMEL WHITE PAINT, IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION. FIBREGLASS TOP TO BE PAINTED WHITE ALSO. THE STEEL SHRINKAGE RING TO BE PAINTED BLACK UNLESS SHOWN OTHERWISE ON THE DRAWINGS.
- 6. THE RAILING SHALL BE PAINTED WITH 2 COATS OF AN ALUMIMIUM BASED ROOFING PAINT (AS A SEALER), PAINTED WITH A FLAT UNDERCOAT AND THEN 2 TOP COATS OF A GOOD QUALITY APPROVED EXTERNAL GLOSS ENAMEL WHITE PAINT, IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION.
- 7. ALL BOLTS BELOW RL +0.6 AHD SHALL BE M20 GRADE 316 STAINLESS STEEL.
- 8. ALL BOLTS IN TIMBER CONSTRUCTION TO BE GALVANISED 24mm DIAMETER UNLESS NOTED OTHERWISE. BOLT HOLES TO BE DRILLED EXACT SIZE. WASHERS UNDER HEADS AND NUTS TO BE AT LEAST 2.5 TIMES BOLT DIAMETER UNLESS OTHERWISE SPECIFIED. ALL BOLTING TO BE IN ACCORDANCE WITH 4.6/s PROCEDURE.
- 9. ALL TIMBER JOINTS AND CONNECTORS ARE TO BE 100 mm MINIMUM AWAY FROM LOOSE KNOTS, SEVERE SLOPING GRAIN, GUM VEINS OR OTHER MINOR DEFECTS
- 10. RETIGHTEN ALL BOLTS WHEN FULL LOAD IS APPLIED, AND AT THE COMPLETION OF WORK.
- 11. DETAILING OF FINISHES SHALL ALLOW FOR DRYING SHRINKAGE OF TIMBER.
- 12. ALL SAW CUTS, BOLT HOLES, CHECKOUTS AND END GRAIN OF TIMBERS ARE TO BE TREATED WITH KOPPERS C.N. EMULSION ABOVE THE TIDAL ZONE OR VESSEY VEPOX CC57 IN THE TIDAL ZONE.
- 13.BOLTS AND WASHERS ARE TO BE CHECKED INTO THE TOPS OF GIRDERS TO ALLOW FOR THE PLACEMENT OF DECKING.

#### STRUCTURAL STEEL

- 1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS4100 AND AS1554 EXCEPT WHERE VARIED BY CONTRACT DOCUMENTS.
- 2. UNLESS NOTED OTHERWISE, ALL STEEL SHALL BE IN ACCORDANCE WITH AS3679 GRADE 250.
- 3. ALL PLATES SHALL BE A MINIMUM OF 10mm THICK UNLESS NOTED OTHERWISE.
- 4. ALL FILLET WELDS TO BE 6mm CONTINUOUS TYPE SP USING E48XX ELECTRODES.
- 5. ALL STEELWORK & FITTINGS SHALL BE GRADE 316 STAINLESS STEEL.

## FIXINGS

- 1. BOLTS, NUTS AND WASHERS SHALL BE MANUFACTURED FROM GRADE 316
- 2. ALL EXPOSED BOLTHEADS AND NUTS SHALL BE HEXAGONAL AND THE LENGTH OF ALL BOLTS SHALL BE SUCH THAT WHEN FITTED WITH A NUT AND TIGHTENED DOWN THE THREAD PORTION SHALL FILL THE NUT AND PROTRUDE FROM THE FACE THEREOF BY NOT MORE THAN ONE-HALF DIAMETER.

DESIGNED:

DRAWN: K. BARRIE

22/01/'14

FIELD BOOK:

ORIGIN OF LEVELS:

AMENDMENTS

19/02/14
02

REVISED PLANS (FOR REVIEW)
03/03/14

APPROVED:

DATUM:



CITY OF SHOALHAVEN

SHOALHAVEN STANDARD DRAWING FORESHORE DECK COVER SHEET & NOTES NTS
Do not scale off drawings.
Confirm all dimensions on site prior to start of construction.
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DIRECTOR ASSETS & WORKS

- PLAN REFERENCE - **4671.07** 

DATE:

12

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COVER SHEET & NOTES

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