# BIRDMARKERS

# STRUCTURAL DRAWING NOTES

### GENERAL

NOTATED BASEPLATE FORCES ACT PARALLEL OR PERPENDICULAR TO THE UC POST AXES
DESIGN IS FOR FRESHWATER LAKE

WIND LOADS:
REGION
ULTIMATE WIND VELOCITY SERVICEABILITY WIND VELOCITY 35 m/s IMPORTANCE LEVEL

ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE FOLLOWING CODES EXCEPT WHERE VARIED BY THE SPECIFICATION AND / OR DRAWINGS.

ALUMINIUM STRUCTURES CODE WELDING OF ALUMINIUM STRUCTURES CODE STEEL STRUCTURES AS.1665

AS.4100 DIMENSIONS NOT TO BE SCALED.

SET OUT DIMENSIONS ARE TO BE VERIFIED WITH ARCHITECT.

ALL FABRICATION SHOP DRAWINGS TO BE PROVIDED TO BLIGH TANNER FOR

REVIEW & COMMENT IN HARDCOPY A4 OR A3 FORMAT.

REFER TO SKM ENGINEERING DRAWINGS FOR CONSTRUCTION DETAILS OF THE FOOTING DESIGN FOR THE ULTIMATE LOADS ON BLIGH TANNER DRAWING \$10

## STAINLESS STEEL

SS1 STAINLESS STEEL MATERIAL SHALL BE WRAPPED AND IS NOT TO BE

STORED WITH CARBON STEEL

SS2 TOOLS USED FOR CARBON STEEL SHALL NOT BE USED TO FABRICATE OR
ASSEMBLE STANLESS STEEL COMPONENTS.

SS3 WELDING SHALL BE IN ACCORDANCE WITH AS1554.6

S93 WELDING SHALL BE IN ACCORDANCE WITH AS1994.8

ALL WELDS SHALL BE 6 MM CONTINUOUS FILLET WELDS

S95 LIMIT THE INPUT OF HEAT INTO THE WELD. THE WELD SHALL NOT BE
PREHATED, POST-HEATED OR STRESS RELIEVED.

S96 ALL STAINLESS STEEL COMPONENTS SHALL HAVE A R8 < 0.7 m AND BE
PASSIVATED USING A 20% TO 25% NITRIC ACID SOLUTION FOR AT LEAST

ALMITICES AT 20% TO 25% DE 14 ACORDAMINE WITH AST MASSIVE.

PASSIVATED USING A 20% TO 25% NITRIC ACID SOLUTION FOR AT LEAST
30 MINUTES AT 40°C TO 60°C IN ACCORDANCE WITH ASTM A380.

SS7

ALL BOLTS SHALL BE GRADE 316 (DNS S31600) A-70 AS THE LAKE IS
ASSUMED TO BE FRESHWATER.

SS NUTS SHALL BE DUFEX 2256 GRADE (UNS S31603).

WASHERS SHALL BE DIEVEX 2256 GRADE (UNS S31603).

WASHERS SHALL BE 316 (UNS S31600), ELECTROPOLISHED OR PASSIVATED
IN A 20 % TO 25 % NITRIC ACID SOLUTION FOR AT LEAST 30 MINUTES AT
40°C TO 60°C IN ACCORDANCE WITH ASTMA380.

SS10 NUTS AND BOLTS SHALL COMPLY WITH ISO 3506 DENTIFICATIONS OR, IF
NOT SO MARKED, SHALL BE PROVIDED WITH MILL OR NATA CERTIFIED
TEST RESULTS CONFIRMING GRADE AND STRENGTH.

SS11 BOLTS SHALL HAVE ROLLED THREADS. THE NUTS AND WASHERS SHALL
BE ELECTROPOLISHED OR PASSIVATED IN A 20% TO 25% NITRIC ACID

BE ELECTROPOLISHED OR PASSIVATED IN A 20% TO 25% NITRIC ACID SOLUTION FOR AT LEAST 30 MINUTES AT 40°C TO 60°C IN ACCORDANCE WITH ASTM ASSO.

SS12 BOLTS SHALL BE TIGHTENED TO THE MANUFACTURER'S RECOMMENDED

TORQUE USING A TORQUE WRENCH.

#### STEELWORK

S1 STEELWORK GRADES TO BE

HOT ROLLED SECTIONS RHS AND SHS GRADE 350 AND GRADE 450 GRADE 250 AND GRADE 350 RODS AND PLATES GRADE 250

COLD FORMED SECTION GRADE 450 SHOP DRAWINGS SHALL BE SUBMITTED TO THE PRINCIPAL FOR APPROVA

PRIOR TO THE COMMENCEMENT OF FABRICATION.
PROVIDE BEAM CAMBER AS NOTED.
ENDS OF BOLLOW SECTIONS TO BE CAPPED WITH WELDED NOMINAL
THICKNESS PLATE WITH VENT HOLES.

S5 UNLESS NOTED OTHERWISE : -PLATES, CLEATS, ETC. TO BE 10mm

-PURLIN CLEATS

< 300 HIGH TO BE 8 PLATE

< 600 HIGH TO BE 65 x 65 x 5.0 EA.

-NUTS, BOLTS, WASHERS, ETC.

HOT DIPPED GALVANIZED STAINLESS STEEL

GENERAL HOT DIP
SALT AIR STAINLE
-BOLTS
M16 8.8/5 FOR SECTION DEPTH < 250mm

M20 8.8/S FOR SECTION DEPTH => 250mm

FOR SLOTTED HOLES PROVIDE WASHER OF MINIMUM 8mm THICK TO COMPLETELY COVER SLOT. -WELDS SHALL BE 6mm SP CONTINUOUS FILLET WELD UNO:

SP DENOTES STRUCTURAL PURPOSE IN ACCORDANCE WITH AS 1554 USING ELECTRODES TYPE EARXY, OR WISDOX MINIMUM. OP DENOTES GENERAL PURPOSE IN ACCORDANCE WITH AS 1554 USING ELECTRODES TYPE E48XX OR WISDOX MINIMUM.

CORROSION PROTECTION TO BE INTERNAL

ABRASIVE BLAST AS 1627.4 CLASS 2.5 HIGH BUILD ZP PRIMER 75 MICRONS DRY FILM THICKNESS

ABRASIVE BLAST AS1627 4 CLASS 2.5 3 PART 'HIGH BUILD' MICACEOUS IRON OXIDE PAINT

TO DULUX SPECIFICATION AND ARTIST COLUR SPECIFICATION Z 350 GALVANISED. COLD FORMED

CONCRETE ENCASED, FIRE SPRAYED AND FRICTION BOLTED CONNECTIONS SHALL NOT BE PAINTED.

BOLT HOLES SHALL NOT BE ENLARGED DURING FRECTION. STEEL WORK EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANISED. DAMAGED GALVANISING IS TO BE REPAIRED WITH HIGH ORGANIC ZINC CONTENT EDDRY TREATMENT WAITYL GALVIT OR SIMILAR. PROVIDE ALL MISCELLANEOUS STEEL WORK TO SUPPORT NON

STRUCTURAL ELEMENTS. ALL BOLTS, NUTS AND WASHERS ARE TO BE GRADE 8.8 STRUCTURAL STEEL UNLESS NOTED OTHERWISE AND COMPLY FULLY WITH AS1252-1996

S12 AS1252-1996 COMPLIANCE CERTIFICATES ARE TO BE PROVIDED TO THE SUPERINTENDENT FOR ALL STRUCTURAL STEEL BOLTS.
S13 ALL STRUCTURAL STEEL HOT ROLLED BARS AND SECTIONS MUST CONFORM

WITH ASN.25979 1: 2010: "STRUCTURAL STEEL HOT ROLLED BARS AND SECTIONS "WITH ASN.25979 1: 2010: "STRUCTURAL STEEL HOT ROLLED BARS AND SECTIONS" ALL STRUCTURAL STEEL WELDED SECTIONS MUST CONFORM WITH ASN.253679 2: 2010: "STRUCTURAL STEEL - WELDED I SECTIONS". ALL STRUCTURAL STEEL HOLLOW SECTIONS MUST CONFORM WITH ASN.25163: 2009: "COLD FORMED STEEL HOLLOW SECTIONS".

514 THE STRUCTURAL STEEL FABRICATOR IS TO PROVIDE TO THE SUPERINTENDENT, AUSTRALIAN STANDARD COMPLIANCE CERTIFICATES FOR ALL STRUCTURAL STEEL WORK PRIOR TO COMMENCING FABRICATION.

S15 OVERSEAS SOURCED STRUCTURAL STEEL IS NOT PERMITTED UNLESS THE STRUCTURAL STEEL MATERIAL SUPPLIER IS CERTIFIED BY ACRS (AUSTRALIAN STANDARDS CERTIFICATION & VERIFICATION OF REINFORCING, PRESTRESSING & STRUCTURAL STEELS, FOR THE SUPPLY OF STRUCTURAL STEEL. CURRENT ACRS CERTIFICATIES ARE TO BE SUBMITTED TO BLIGH TANNER. REFER www.shebiostification.com FOR CURRENT CERTIFICATE HOLDERS.

S16 PROVIDE TASS25G GALVANISED TEXTOR ANGLE TRIMMERS TO SUPPORT SHEETING TO ALL HIPS, VALLEYS, GABLES, CORNERS AND THE LIKE. SCREW FIX / WELD AS REQUIRED.

#### ALUMINIUM

A1 ALUMINIUM GRADES TO BE UNLESS OTHERWISE APPROVED: PLATE - GRADE 6063. MILL CERTIFICATES TO BE FORWARED TO ENGINEER

WELDS TO BE MINIMUM 6mm CONTINUOUS FILLET WELD.

A3 ENDS OF HOLLOW SECTIONS TO BE CAPPED WITH WELDED NOMINAL THICKNESS PLATE.

A4 ALUMINIUM PAINT FINISHES TO BE

DULUX RED 19959 ALPHATEC TO INSIDE FACE OF PANELS
 PORTERS LIQUID IRON AND INSTANT RUST FINISH TO EXTERIOR FACE OF PANELS AND BIRD 'LEGS'

CONTROL SAMPLES OF BOTH PAINT FINISHES TO BE SUPPLIED TO THE ARTIST.

A5 WATERCUTTING OF ALUMINIUM

BIRD DESIGN FILES SUPPLIED BY ARTIST UPON REQUEST

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> CCX No: DA NO: 130032 sessment Act PENRITH CITY COUNCIL

This plan/document relates to

	REV	DATE	DESCRIPTION	DESIGN	DRAWN	CHECKED	APPROVED	RPEQ No.	PROJECT		-			
BLIGH TANNER CONSULTING ENGINEERS  LEVEL 9, 269 WICKHAM STREET, PO BOX 612 FORTITUDE VALLEY QLD 4006 AUSTRALIA T 07 3251 8555 F 07 3251 8599	P1	10.05.2013	ISSUED FOR COORDINATION	PE	SAB		7	RFEQ NO.	PROJECT	BIRD MARKER	DRAWING TITLE		SCALES	
	P2	17.05.2013	ISSUED FOR APPROVAL	PE	SAB					DIKU MAKKEN	5	COVER SHEET		
	P3	24.05.2013	RE-ISSUED FOR APPROVAL	PE	SAB				LOCATION		ASSOCIATE CONSULTANT		IOD NO	
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