

GENERAL NOTES

- G1 THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED.
- G2 ALL DIMENSIONS AND EXISTING CONDITIONS TO BE CHECKED BEFORE COMMENCING CONSTRUCTION. ANY DISCREPANCIES SHALL BE REFERRED TO THE SUPERINTENDENT FOR DECISION BEFORE PROCEEDING WITH THE WORK.
- G3 ALL WORKMANSHIP AND MATERIALS SHALL COMPLY WITH THE APPROPRIATE AND CURRENT AUSTRALIAN STANDARDS.
- G4 ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
- G5 DIMENSIONS SHALL NOT BE OBTAINED BY SCALING THE STRUCTURAL DRAWINGS.
- G6 SETTING OUT DIMENSIONS SHOWN ON THE DRAWINGS SHALL BE VERIFIED ON SITE BEFORE CONSTRUCTION COMMENCES.
- G7 DURING CONSTRUCTION THE STRUCTURE SHALL BE MAINTAINED IN A STABLE CONDITION AND NO PART SHALL BE OVERSTRESSED.
- G8 U.N.O. DENOTES UNLESS NOTED OTHERWISE.
- G9 ALL TEMPORARY WORKS ARE TO BE DESIGNED AND CERTIFIED BY THE CONTRACTOR'S STRUCTURAL ENGINEER. ALL TEMPORARY WORKS ARE TO BE REMOVED AT THE END OF THE PROJECT WITH GROUND MADE GOOD, ALL AT THE CONTRACTOR'S EXPENSE.
- G10 SAFETY PRECAUTIONS SHALL BE TAKEN TO AVOID INJURY TO PEOPLE. THE UNATTENDED FOOTING HOLES SHALL BE COVERED OR FENCED OFF AT ALL TIMES.

DESIGN DATA

WIND LOAD:
REGIONAL WIND SPEED: Ultimate $V_{500}=57m/s$
Serviceability $V_{25}=39m/s$

WIND REGION: B
TERRAIN CATEGORY: 1.5
SHIELDING MULTIPLIER (M_s): 1.0
TOPOGRAPHIC MULTIPLIER (M_t): 1.0

FOOTING NOTES

- F1 ALL FOOTINGS ARE TO BE FOUNDED IN ORIGINAL UNDISTURBED MATERIAL OF MINIMUM ALLOWABLE BEARING CAPACITY OF 100 kPa. BEFORE CONSTRUCTION COMMENCES, THE ALLOWABLE BEARING CAPACITY SHALL BE VERIFIED BY A QUALIFIED GEOTECHNICAL ENGINEER (RPEQ). IF SITE CONDITION IS DIFFERENT CONSULT A STRUCTURAL ENGINEER.
- F2 THE BOTTOMS OF ALL FOOTINGS ARE TO BE CLEANED OF ALL LOOSE MATERIAL, CLAY SEAMS, WATER ETC PRIOR TO CONCRETING.

CONCRETE NOTES

- C1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS3600.
- C2. ALL CONCRETE SHALL BE PREMIXED BY AN APPROVED SUPPLIER.
- C3. ALL CEMENT SHALL BE TYPE GP OR GB TO AS3972 UNLESS OTHERWISE SPECIFIED.
- C4. ADMIXTURES SHALL NOT BE USED UNLESS APPROVED IN WRITING BY THE SUPERINTENDENT.
- C5. NOMINAL AGGREGATE SIZE TO BE 20mm. SLUMP TO BE NOT GREATER THAN 80mm.
- C6. CONCRETE STRENGTH AND CLEAR CONCRETE COVER TO REINFORCEMENT SHALL BE IN ACCORDANCE WITH THE FOLLOWING TABLE U.N.O.

ELEMENT	CONCRETE GRADE	REINFORCEMENT COVER
BLINDING LAYER	15	-
MASS CONCRETE	15	-
BORED PIERS	25	50

- C7. ALL LAPS IN REINFORCEMENT SHALL BE AS SHOWN IN THE TABLE BELOW UNLESS NOTED OTHERWISE.

BAR	LENGTH	BAR	LENGTH
N12	500	N28	500
N16	650	N32	650
N20	800	N36	800
N24	1050	FABRIC	1050

- C8. REINFORCEMENT SYMBOLS:

R STRUCTURAL PLAIN ROUND GRADE 250R TO AS4671.
N DEFORMED BAR GRADE D500N TO AS4671.
L COLD ROLLED DEFORMED BAR GRADE D500L TO AS4671.
SL HARD DRAWN STEEL REINFORCING FABRIC GRADE D500L TO AS4671.

- C9. SIZES OF CONCRETE ELEMENTS DO NOT INCLUDE THICKNESS OF APPLIED FINISHES.
- C10. NO HOLES, CHASES OR EMBEDMENT OF PIPES OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE MADE IN CONCRETE MEMBERS WITHOUT PRIOR APPROVAL BY THE SUPERINTENDENT.
- C11. ALL CONCRETE SHALL BE COMPACTED USING A MECHANICAL VIBRATION PROCESS.
- C12. FORMWORK SHALL BE DESIGNED, CONSTRUCTED AND STRIPPED IN ACCORDANCE WITH AS3610. REFER TO THE SPECIFICATION FOR CLASSES OF SURFACE FINISHES.

STEELWORK NOTES

- S1. ALL WORKMANSHIP & MATERIALS SHALL BE IN ACCORDANCE WITH AS5100.6, AS4100 & AS/NZS1554 AS APPROPRIATE.
- S2. ALL STEEL SHALL BE IN ACCORDANCE WITH:
AS/NZS3679 GRADE 300 FOR HOT ROLLED SECTIONS
AS1163 GRADE C350L0 FOR RECTANGULAR HOLLOW SECTIONS
AS1163 GRADE C350L0 FOR CIRCULAR HOLLOW SECTIONS
- S3. ALL BOLTS TO BE METRIC HEXAGONAL TO AS/NZS1252 U.N.O.
ALL BOLTS TO BE M20 8.8/S TO AS/NZS 1252 U.N.O.
ALL BOLTS TO BE HOT DIP GALVANISED AS1214
ALL THREADS TO BE TREATED WITH 'LOC-TITE' TO RENDER TAMPER AND VIBRATION PROOF.
- S4. THE CONTRACTOR SHALL SUBMIT RPEQ CERTIFICATION CONFIRMING THE FOLLOWING TOGETHER WITH THE RELEVANT MILL AND TEST CERTIFICATES TO THE SUPERINTENDENT FOR APPROVAL PRIOR TO COMMENCING FABRICATION.
 - THAT THE STRUCTURAL STEEL PRODUCTS SUPPLIED ARE FROM EITHER AN AUSTRALIAN OR OVERSEAS ACRS CERTIFIED MANUFACTURER. REFER www.steelcertification.com FOR CURRENT CERTIFICATE HOLDERS. ACRS REFERS TO "AUSTRALIAN CERTIFICATION AUTHORITY FOR REINFORCING AND STRUCTURAL STEELS".
 - THAT WHERE STRUCTURAL STEEL PRODUCTS ARE SOURCED FROM OVERSEAS FOR THIS PROJECT THE CERTIFYING ENGINEER HAS REVIEWED THE MILL AND TEST CERTIFICATES FROM THE SUPPLIERS OF THE STEEL PRODUCTS AND CONFIRMS THAT THEY COMPLY WITH THE RELEVANT AUSTRALIAN STANDARDS IN RELATION TO MATERIAL COMPOSITION AND STRENGTH.
 - THAT ALL BOLTS USED SHALL COMPLY WITH AS1252 AND THE CURRENT REQUIREMENTS OF THE AUSTRALIAN STEEL INSTITUTE ASI TECHNICAL NOTE TN001 VERSION 3.
- S5. ALL CLEATS AND GUSSETS SHALL BE 10mm PLATE TO AS/NZS3678 GRADE 300 U.N.O.
- S6. THE ENDS OF ALL TUBULAR MEMBERS ARE TO BE SEALED WITH 5mm THICK PLATES AND CONTINUOUS FILLED WELDED U.N.O.
- S7. WHERE MEMBERS SHOWN ON THE STRUCTURAL DRAWINGS ARE TO BE BENT, CURVED OR ROLLED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE METHODS REQUIRED TO ACHIEVE THE REQUIRED SHAPES WITHOUT LOCALISED DISTORTION OF THE MEMBERS.
- S8. BEFORE FABRICATION HAS COMMENCED, THE CONTRACTOR SHALL SUBMIT THREE (3) COPIES OF THE SHOP DRAWINGS TO THE SUPERINTENDENT FOR REVIEW. REVIEW DOES NOT INCLUDE CHECKING OF DIMENSIONS.
- S9. ALL WELDS TO BE 6mm CONTINUOUS FILLET WELDS (CFW) STRUCTURAL PURPOSE (SP) WELDS U.N.O. ALL WELDS TO BE MADE USING E48XX OR W50X GRADE 1 (OR BETTER) ELECTRODES TO AS/NZS1554. GRIND ALL CORNERS & WELDS SMOOTH.
A RPEQ CERTIFICATION CONFIRMING THAT ALL WELDING WORKS HAVE BEEN INSPECTED AND CERTIFIED AS COMPLYING WITH AS1554 BY A QUALIFIED WELDING INSPECTOR APPOINTED BY THE CONTRACTOR SHALL BE SUBMITTED TO THE SUPERINTENDENT FOR APPROVAL PRIOR TO THE STEELWORK BEING GALVANISED.
- S10. ALL STEELWORK TO BE HOT DIP GALVANISED IN ACCORDANCE WITH AS/NZS2312 HDG600 SPECIFICATION. CORROSION PROTECTION COATING TO SURFACE PREPARATION OF SUBSTRATE MATERIAL IS CLASS 2½ TO AS1627 AND PICKLED PRIOR GALVANISING. HOT DIPPED GALVANISED COATING SHALL BE IN ACCORDANCE WITH AS/NZS4680.
- S11. THE PRINCIPAL CONTRACTOR SHALL CONFER WITH THE FABRICATOR AND GALVANISER TO ENSURE VENT HOLES ARE PROVIDED IN ACCORDANCE WITH AS/NZS 4680.
- S12. PROTECTIVE COATINGS TO BE APPLIED AFTER ALL FABRICATION COMPLETED. NO WELDING ETC TO BE CARRIED OUT DURING OR AFTER APPLICATION OF COATING SYSTEM.
- S13. ANY POST GALVANISING DAMAGED TO BE MADE GOOD WITH A HIGH QUALITY TWO PACK EPOXY ZINC RICH PAINT CONFORMING TO AS/NZS3750.9 WITH A MINIMUM DRY FILM THICKNESS OF 100 MICRONS. SURFACE PREPARATION AS PER PAINT MANUFACTURER'S RECOMMENDATIONS.

STRUCTURAL DESIGN CERTIFICATION			
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PARK SIGNAGE - GENERAL STRUCTURAL NOTES - SHEET 1 OF 2			SCALE DWS No: BSD-10501 ORIGINAL SIZE A3 REVISION A

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ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT DESIGN APPROVED

SENIOR CO-ORDINATOR PARKS

ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE
A	Drawing Converted From UMS Series March 2015	MAR '15	MAR '15	MAR '15