

Council

NEW LOADING RAMP – MOUNT BARKER
REGIONAL SALEYARDS

Detailed Plans – Loading Ramp

Meeting Date: 17 July 2018

Number of Pages: 15

STRUCTURAL NOTES

GENERAL

- THESE STRUCTURAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH EXISTING STRUCTURAL 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 STRUCTURAL ENGINEER BEFORE PROCEEDING WITH THE WORK.
- ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE RELEVANT CURRENT STANDARDS AUSTRALIA CODES, THE BUILDING CODE OF AUSTRALIA, AND STATUTORY O.C.S.A.R. REQUIREMENTS.
- ALL DIMENSIONS SHOWN ON THESE STRUCTURAL DRAWINGS SHALL BE VERIFIED BY THE BUILDER ON SITE. THESE STRUCTURAL DRAWINGS SHALL NOT BE SCALED FOR DIMENSIONS.
- UNLESS NOTED OTHERWISE ALL LEVELS ARE IN METRES AND ALL DIMENSIONS ARE IN MILLIMETRES.
- DURING CONSTRUCTION THE STRUCTURE SHALL BE MAINTAINED IN A STABLE CONDITION AND NO PART SHALL BE OVERLOADED. TEMPORARY BRACING SHALL BE PROVIDED BY THE CONTRACTOR IN ORDER TO KEEP THE BUILDING WORKS AND EXCAVATIONS STABLE AT ALL TIMES.

SITE PREPARATION, CLEARING AND GRUBBING

- ALL WORK TO BE IN ACCORDANCE WITH AS 3799 UMO
- DIVERTING WATER AND DEWATERING: THE CONTRACTOR SHALL TAKE ALL NECESSARY ACTION TO PREVENT ANY SURFACE OR SUBSOIL WATER FROM INTERFERING WITH THE PROGRESS OF THE WORKS. THE WORK SHALL BE KEPT FREE FROM WATER. ANY EXISTING AREAS OF THE SITE SUBJECT TO INUNDATION SHALL BE DEWATERED PRIOR TO WORKING IN THOSE AREAS. ANY WORK OR DAMAGED BY WATER FROM ANY SOURCE SHALL BE REMOVED, REPLACED WITH FRESH MATERIAL, AND RECONSTRUCTED BY THE CONTRACTOR.
- THE SITE AREA SUBJECT TO NEW WORKS IS TO BE CLEARED OF ALL VEGETATION, FALLEN TREES, RUBBISH, DEBRIS AND CONCRETE FOUNDATIONS.

FOOTINGS

- FOOTINGS HAVE BEEN DESIGNED FOR AN ALLOWABLE BEARING CAPACITY OF 100 kPa.
- FOOTINGS SHALL BE LOCATED CENTRALLY UNDER WALLS AND COLUMNS UNLESS NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS.
- FOOTINGS SHALL BE CONSTRUCTED AND BACKFILLED AS SOON AS POSSIBLE FOLLOWING EXCAVATION TO AVOID EITHER SOFTENING OF THE FOUNDING MATERIAL OR DRYING OUT BY EXPOSURE.
- EXCAVATE FOR FOOTINGS TO THE NOMINATED SIZE AND DEPTH.

CONCRETE

- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF AS 3600 AND AS 3610 FORMWORK FOR CONCRETE, INCLUDING AMENDMENTS, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
- PRE-MIXED CONCRETE SUPPLY SHALL COMPLY WITH AS 1378.
- CONCRETE QUALITY:-

ELEMENT	STRENGTH GRADE (MPa)	SLUMP (mm)	MAX. AGE SIZE (mm)
FOUNDATIONS	M25	80	30
SLAB ON FILL	M25	80	20
RETAINING WALL	M25	80	30

- PROJECT CONTROL TESTING SHALL BE CARRIED OUT IN ACCORDANCE WITH AS 1574.
- NO ADMIXTURES SHALL BE USED IN CONCRETE UNLESS APPROVED IN WRITING BY THE STRUCTURAL ENGINEER.
- CLEAR COVER TO REINFORCEMENT SHALL BE -

FOOTINGS	45mm BOTTOM AND SIDES & CAST AGAINST GROUND, OTHERWISE 50mm
SLAB ON GROUND	25mm TOP COVER
RETAINING WALL	CENTRAL MESH

- CONCRETE SIZES SHOWN DO NOT INCLUDE THICKNESS OF APPLIED FINISHES.
- NO HOLES, CRACKS OR EMBEDMENT OF PIPES OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE MADE IN CONCRETE MEMBERS WITHOUT THE PRIOR WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.
- WHERE NOT SHOWN ON THE STRUCTURAL DRAWINGS, CONSTRUCTION JOINTS SHALL BE LOCATED TO THE APPROVAL OF THE STRUCTURAL ENGINEER.
- THE FINISHED CONCRETE SHALL BE A DENSE HOMOGENEOUS MASS, COMPLETELY FILLING THE FORMWORK THOROUGHLY ENBEDDING THE REINFORCEMENT AND FREE OF STONE POCKETS. ALL CONCRETE INCLUDING FOOTINGS AND SLABS ON GROUND SHALL BE COMPACTED WITH MECHANICAL VIBRATORS.
- CURING OF ALL CONCRETE IS TO BE ACHIEVED BY KEEPING SURFACES CONTINUOUSLY WET FOR A PERIOD OF 3 DAYS, OR BY PREVENTION OF LOSS OF MOISTURE FOR A TOTAL OF 7 DAYS FOLLOWED BY A GRADUAL DRYING OUT, APPROVED SPRAY-ON CURING COMPOUNDS THAT COMPLY WITH AS 3799 MAY BE USED WHERE FLOOR FINISHES WILL NOT BE AFFECTED (REFER MANUFACTURERS SPECIFICATIONS). POLYETHYLENE SHEETING OR WET Hessian MATS BE USED TO RETAIN CONCRETE MOISTURE WHERE PROTECTED FROM WIND AND TRAFFIC.
- CONSTRUCTION SUPPORT PROPPING IS TO BE LEFT IN PLACE WHERE NEEDED TO AVOID OVER-STRESSING THE STRUCTURE DUE TO CONSTRUCTION LOADING. NO BRICKWORK OR PARTITION WALLS ARE TO BE CONSTRUCTED ON SUSPENDED LEVELS UNTIL ALL PROPPING IS REMOVED AND THE SLAB HAS ABSORBED ITS DEAD LOAD DEFLECTION.

REINFORCEMENT

- REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND NOT NECESSARILY IN TRUE PROJECTION.
- SITE BIDDING OF REINFORCING BARS SHALL BE DONE WITHOUT HEATING USING MECHANICAL BENDING TOOLS.
- WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED UNLESS SHOWN ON THE STRUCTURAL DRAWINGS OR APPROVED BY THE STRUCTURAL ENGINEER. IF PERMITTED WELDING IS TO BE CARRIED OUT IN ACCORDANCE WITH AS/NZS 1554.3
- REINFORCEMENT SYMBOLS:-
R - DENOTES GRADE 250R HOT ROLLED PLAIN BARS TO AS/NZS 1471
N - DENOTES GRADE 500N DEFORMED BARS TO AS/NZS 1471
SL or RL - DENOTES SQUARE OR RECTANGULAR GRID DEFORMED REINFORCING FABRIC GRADE 500R TO AS/NZS 1471
L - TH - DENOTES TRENCH MESH GRADE 550L TO AS/NZS 1471



- REINFORCEMENT LAYERS DENOTED THIS MANNER:-
TT - DENOTES TOP BARS LAID LAST
T - DENOTES TOP BARS LAID FIRST
B - DENOTES BOTTOM BARS LAID SECOND
BB - DENOTES BOTTOM BARS LAID FIRST
- WHERE TRANSVERSE TIE BARS ARE NOT SHOWN PROVIDE N12-300 SPICED WHERE NECESSARY AND LAP WITH MAIN BARS 50mm, UNLESS NOTED OTHERWISE.
- ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON HILD STEEL PLASTIC TIPPED CHAIRS, PLASTIC CHAIRS OR CONCRETE CHAIRS AT NOT GREATER THAN 1 METRE CENTRES BOTH WAYS FOR BARS OR 75mm CENTRES FOR FABRIC. IN EXPOSURE CONDITION B2 OR C USE ONLY PLASTIC OR CONCRETE CHAIRS. BARS SHALL BE TIED AT ALTERNATE INTERSECTIONS.
- SPICES IN THE REINFORCEMENT SHALL BE MADE ONLY IN THE POSITIONS SHOWN. THE WRITTEN APPROVAL OF THE ENGINEER SHALL BE OBTAINED FOR ANY OTHER SPICES, WHERE THE LAP LENGTH IS NOT SHOWN IT SHALL BE AS PER THE MINIMUM LAP SHOWN BELOW.
- MINIMUM LAP LENGTHS FOR BARS IN TENSION (UxU) SHALL BE:-

BAR SIZE	N12	N16	N20	N24	N28	N32
WALLS AND SLABS LESS THAN 320mm THICK (K ₁ = 1.0, K ₂ = 1.7)	400	450	500	550	600	650
BEAMS (K ₁ = 1.25, K ₂ = 2.2)	500	550	600	650	700	750

FOR K₁ & K₂ REFER TO AS 3600 SECTION 13.2.1.

- TYPICAL FABRIC LAP:-
- BUNDLED BARS SHALL BE TIED TOGETHER AT 30 BAR DIAMETER CENTRES WITH 3 WRAPS OF WIRE.
- JOGGLES TO BARS SHALL BE 1 BAR DIAMETER OVER A LENGTH OF 12 BAR DIAMETERS.
- THE STRUCTURAL ENGINEER SHALL BE GIVEN 48 HOURS NOTICE FOR REINFORCEMENT INSPECTION AND CONCRETE SHALL NOT BE DELIVERED UNTIL FINAL APPROVAL HAS BEEN OBTAINED.

STRUCTURAL STEELWORK

- ALL WORKMANSHIP AND MATERIAL SHALL BE IN ACCORDANCE WITH AS/NZS 1400. FABRICATION SHALL BE CARRIED OUT IN ACCORDANCE WITH SECTION 14 OF AS/NZS 1400. ERECTION SHALL BE CARRIED OUT IN ACCORDANCE WITH SECTION 15 OF AS/NZS 1400.
- UNLESS NOTED OTHERWISE, ALL STEEL SHALL BE OF THE FOLLOWING GRADES IN ACCORDANCE WITH THE FOLLOWING AUSTRALIAN STANDARDS:-

TYPE OF STEEL	GRADE
UNIVERSAL BEAMS AND COLUMNS, PARALLEL FLANGE CHANNELS, LARGE ANGLES TO AS/NZS 367.1	300
WELDED SECTIONS TO AS/NZS 367.2	300
HOT ROLLED PLATES, FLOOR PLATES AND SLABS TO AS/NZS 367.8	250
HOLLOW SECTIONS TO AS 1163	C350 (250 FOR DIA. > 90mm)
COLD FORMED PURLINS AND GIRTS TO AS/NZS 1460	G450, 2350
TAPER FLANGE CHANNELS AND BEAMS, SHALL ANGLES TO AS/NZS 367.1	250

- DIGITAL COPIES AND THREE (3) COPIES OF WORKSHOP FABRICATION DRAWINGS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW AT LEAST 14 DAYS PRIOR TO COMMENCEMENT OF FABRICATION. FABRICATION SHALL NOT COMMENCE WITHOUT THE STRUCTURAL ENGINEER'S REVIEW OF THE WORKSHOP DRAWINGS WHICH EXCLUDES DIMENSIONS. ALL EXACT DIMENSIONS TO BE OBTAINED FROM SITE AND/OR ARCHITECTURAL DRAWINGS.
- PROVIDE ALL CLEATS AND DRILL ALL HOLES NECESSARY FOR FIXING OTHER ELEMENTS TO THE STEEL WHETHER OR NOT DETAILED ON THE STRUCTURAL DRAWINGS.
- ALL MEMBERS SHALL BE SUPPLIED IN SINGLE LENGTHS. SPICES SHALL ONLY BE PERMITTED IN LOCATIONS SHOWN ON THE STRUCTURAL DRAWINGS.
- ALL STEELWORK SHALL BE SECURELY TEMPORARILY BRACED AS NECESSARY TO STABILISE THE STRUCTURE DURING ERECTION.
- ALL DIMENSIONS TO BE CHECKED ON SITE BEFORE FABRICATION COMMENCES.
- UNLESS OTHERWISE NOTED USE NON-SHIMMING GROUT UNDER ALL SEATING AND BASE PLATES ENSURING THE SPACE UNDER THE PLATES IS CLEANED OUT AND COMPLETELY FILLED.

BOLTS

- BOLTING CATEGORIES ARE IDENTIFIED ON THE STRUCTURAL DRAWINGS IN THE FOLLOWING MANNER:-
4.4/S - COMMERCIAL BOLTS OF GRADE 4.4 TO AS 1111 SHAK TIGHTENED.
8.8/S - HIGH STRENGTH STRUCTURAL BOLTS OF GRADE 8.8 TO AS/NZS 1952 SHAK TIGHTENED.
8.8/TB - HIGH STRENGTH STRUCTURAL BOLTS OF GRADE 8.8 TO AS/NZS 1952 FULLY TENSIONED TO AS 4100 AS A BEARING TYPE JOINT.
8.8/TF - HIGH STRENGTH STRUCTURAL BOLTS OF GRADE 8.8 TO AS/NZS 1952 FULLY TENSIONED TO AS 4100 AS A FRICTION TYPE JOINT WITH FAYING SURFACES LEFT UNCOATED.
- UNLESS NOTED OTHERWISE ALL BOLTS SHALL BE M20 CATEGORY 8.8/S AND CLEAT PLATES 10mm THICK. NO CONNECTION SHALL HAVE LESS THAN 2 BOLTS. ALL BOLTS AND WASHERS SHALL BE GALVANIZED. ALL HOLES SHALL BE 2mm LARGER THAN THE BOLT DIAMETER UNLESS NOTED OTHERWISE.
- 7/8 AND 1/2 BOLT CATEGORIES SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 15 OF AS 4100, USING EITHER THE PART-TURN METHOD OR THE DIRECT-TENSION INDICATOR METHOD.

WELDING

- ALL WELDING SHALL BE CARRIED OUT IN ACCORDANCE WITH AS/NZS 1554.1. ELECTRODES SHALL BE TO EITHER AS/NZS 1553, AS 1858, AS 2283 OR AS/NZS 2217, AS APPROPRIATE.
- UNLESS NOTED OTHERWISE, ALL FILLET WELDS SHALL BE 6mm CONTINUOUS CATEGORY SP USING E60XX ELECTRODES OR EQUIVALENT. ALL BUTT WELDS SHALL BE COMPLETE PENETRATION BUTT WELDS CATEGORY SP TO AS/NZS 1554.1.
- THE EXTENT OF NON-DESTRUCTIVE WELD EXAMINATION SHALL BE AS NOTED BELOW. RADIOGRAPHIC OR ULTRASONIC EXAMINATION SHALL BE TO AS/NZS 1554.1, AS 2711 AND AS 2287 AS APPROPRIATE AND CARRIED OUT BY AN INDEPENDENT NATA REGISTERED/CERTIFIED WELDING INSPECTOR.

TYPE OF WELD CATEGORY	EXAMINATION METHOD	EXTENT (% OF TOTAL LENGTH OF WELD TYPE)
FILLET WELDS, SP - SP	VISUAL INSPECTION	100
BUTT WELDS, SP	VISUAL INSPECTION	100
BUTT WELDS, SP	VISUAL INSPECTION	100
	RADIOGRAPHIC OR ULTRASONIC INSPECTION	10

CORROSION PROTECTION

- SURFACE TREATMENT (UNLESS SPECIFIED OTHERWISE)
TYPE A - CLASS 2 BLAST CLEAN, 75µm RED OXIDE ZINC PHOSPHATE PAINT
TYPE B - CLASS 2.5 BLAST CLEAN, 75µm INORGANIC ZINC SILICATE COATING
TYPE C - INTERZONE 954HS TO A MINIMUM THICKNESS OF 40µm (APPLIED UNDER TYPE B)
TYPE D - HOT DIP GALVANIZED IN ACCORDANCE WITH AS/NZS 1460. MINIMUM COATING MASS 500g/m²
- SURFACE TREATMENT PARTS OF STEELWORK
TYPE A INTERNAL STEELWORK CONCEALED/ VISIBLE INTERNAL STEELWORK
TYPE B EXTERNAL STEELWORK CONCEALED MEMBERS IN CONTACT WITH GROUND MEMBERS IN WALLS OF EXTERNAL CAVITY BRICK CAVITY AND EXTERNAL STEELWORK VISIBLE
TYPE C
TYPE D
- GALVANIZING OF STRUCTURAL STEELWORK SHALL BE TO AS/NZS 1460. THE CONTINUOUS AVERAGE ZINC COATING MASS SHALL BE 480g/m², 550g/m², 1000g/m².
- PROVIDE SEAL PLATES TO THE ENDS OF ALL HOLLOW SECTIONS, WITH 'BREATHER' HOLES IF MEMBERS ARE TO BE HOT DIP GALVANIZED.
- STEELWORK INTENDED TO BE CONCRETE ENCASED SHALL BE UNPAINTED. ENCASED CONCRETE SHALL BE GRADE 25 MPa PROVIDING A COVER ADEQUATE TO SUIT FIRE RATING OR EXPOSURE CONDITIONS. CONCRETE ENCASEMENT SHALL BE CENTRALLY REINFORCED WITH 5mm WIRE TO AS/NZS 1471 OR 10mm STRUCTURAL GRADE BARS TO AS/NZS 1471 AT 150mm PITCH.
- COATINGS DAMAGED DURING ERECTION OR SUBSEQUENT STAGES OF THE WORK SHALL BE MADE GOOD AND/OR REPAIRED.



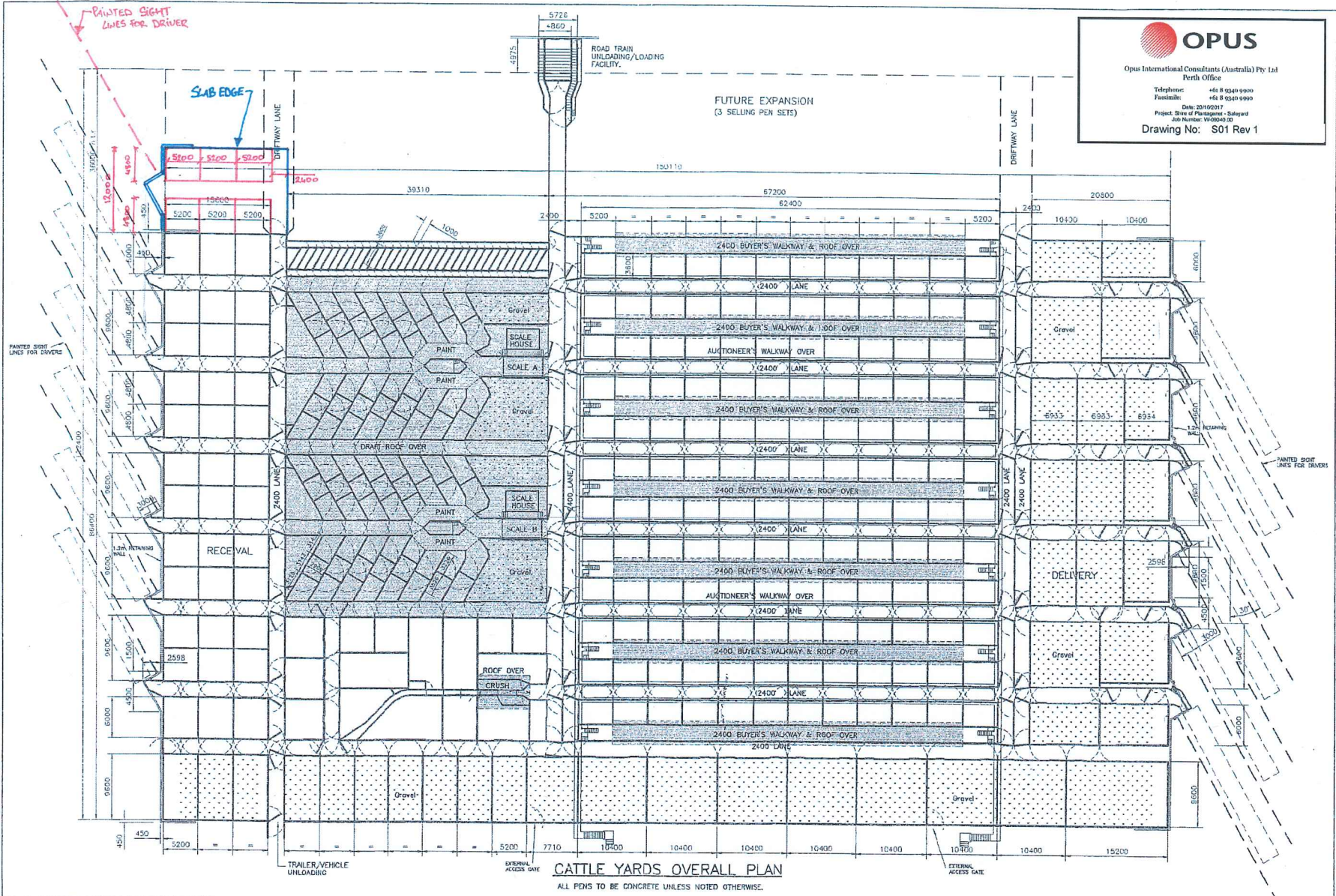
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25th Number: 16/2016/10

Drawing No: S00 Rev 1

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 Project: Shire of Plantagenet - Saleyard
 Job Number: W00040.00
 Drawing No: S01 Rev 1



AMDT. No.	DESCRIPTION	DATE

GENERAL NOTES

- ROOF AREA
- GRAVEL AREA

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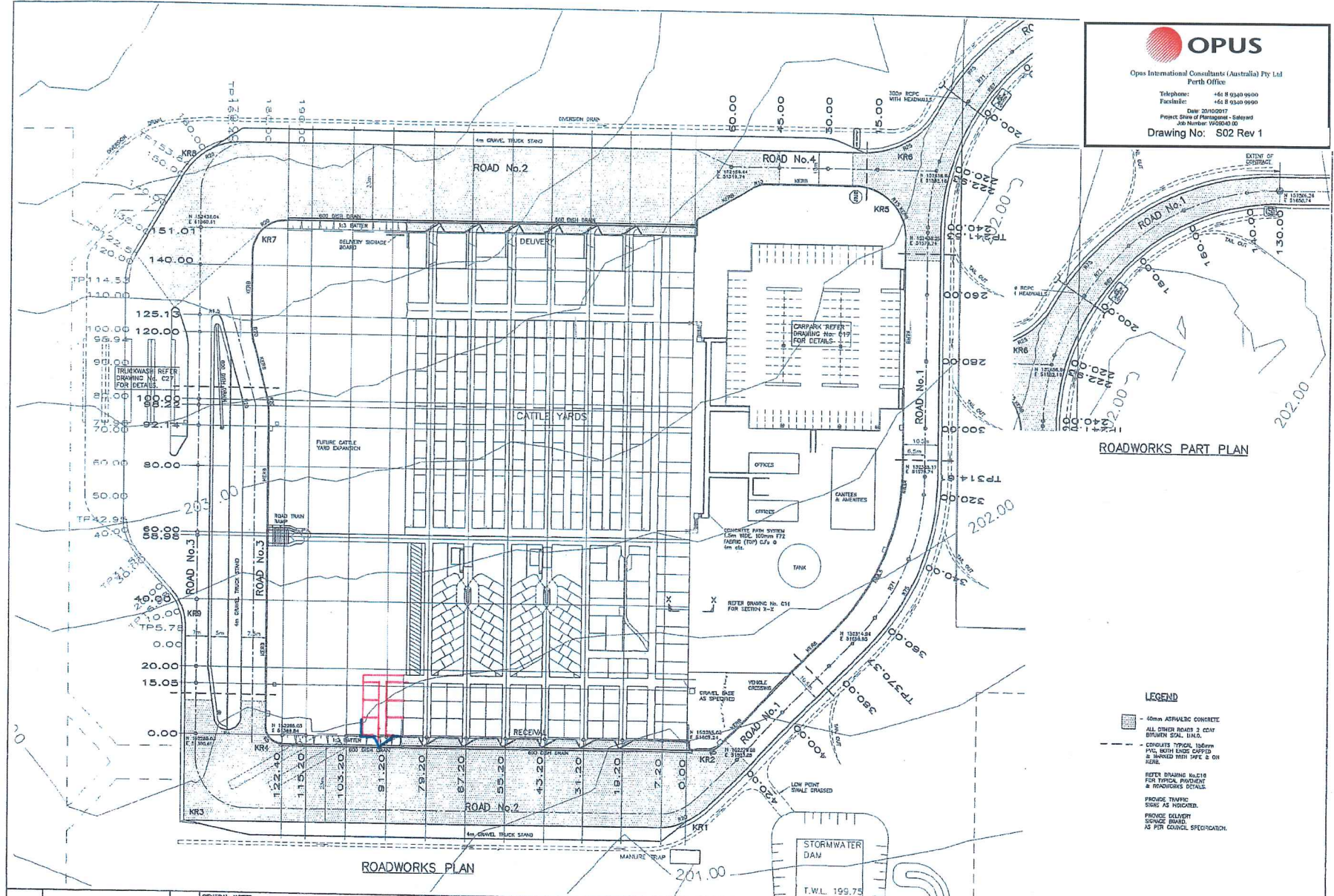
XEROS


TITLE
 YERRIMNUP NORTH REGIONAL SALEYARDS
 SHIRE OF PLANTAGENET W.A.
CATTLE YARDS PLAN

Sheet Size A1	Drawing P.S. C2	Design: JOD : 96103
Scale 1:250	Date 22/10/97	Drawn: JOD
Author L. Ironsby	Checked C2	Amend 1



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 Job Number: V0500000
 Drawing No: S02 Rev 1



- LEGEND**
-  40mm ASPHALTIC CONCRETE
 -  ALL OTHER ROADS 3 CMAT BITUMEN SEAL, 150mm
 -  CONCRETE TYPICAL 150mm PAV. BOTH ENDS CAPPED & MARKED WITH PAVE 0 ON SIGN
 -  REFER DRAWING NO. 101 FOR TYPICAL PROVISIONS & ROADWORKS DETAILS
 -  PROPOSED TRAFFIC SIGN AS INDICATED
 -  PROPOSED DELIVERY SERVICE SIGN AS PER COUNCIL SPECIFICATION

AMDT No.	DESCRIPTION	DATE

GENERAL NOTES

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TITLE: YERRIMINUP NORTH REGIONAL SALEYARDS
 SHIRE OF PLANTAGENET W.A.
 ROADWORKS PLAN

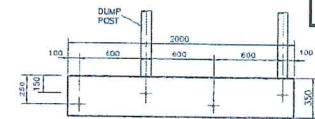
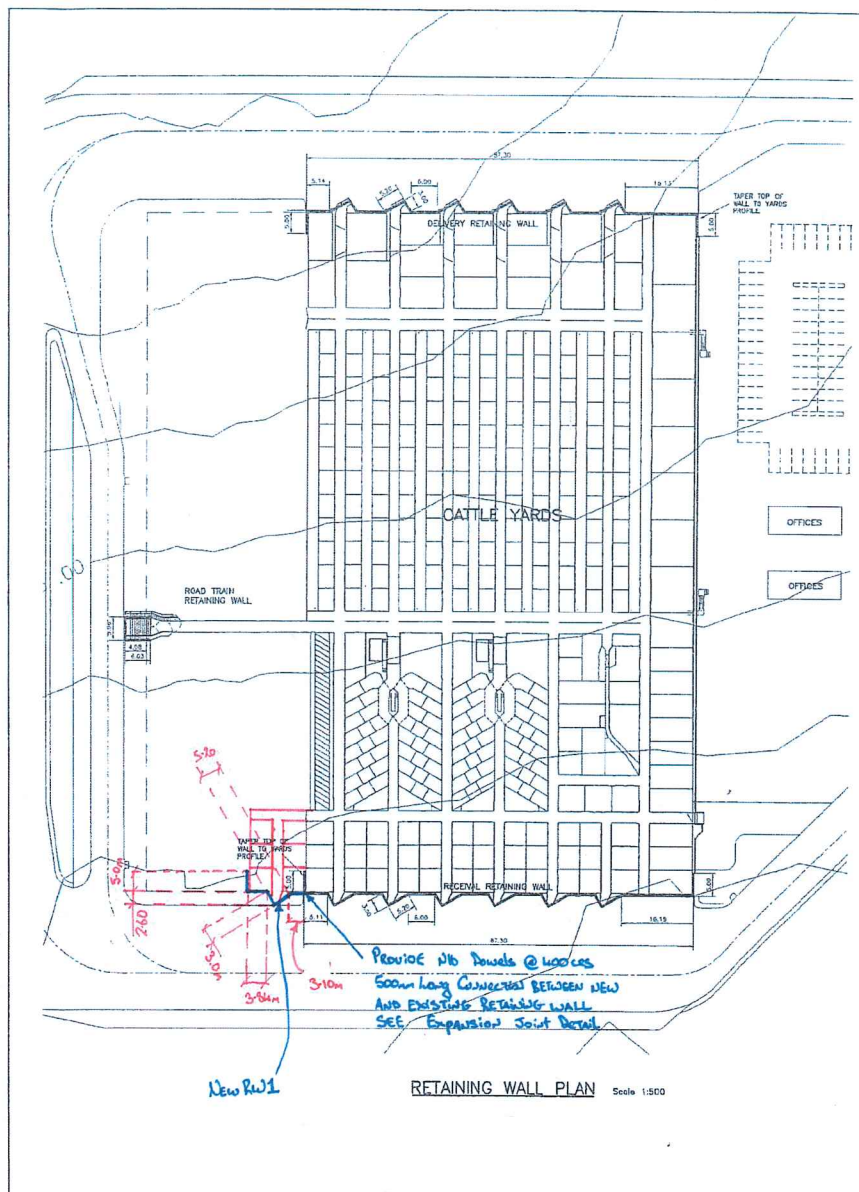
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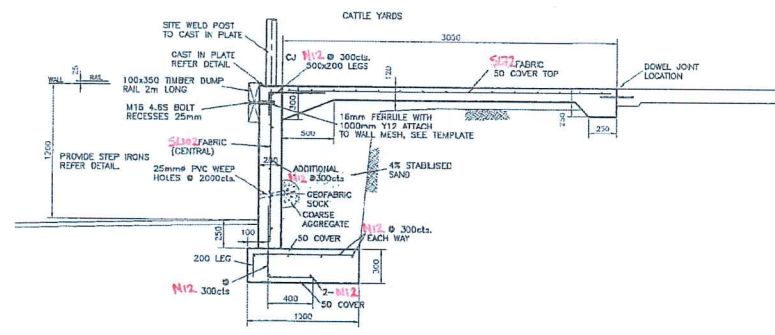
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Project: Shire of Plantagenet - Daleyard
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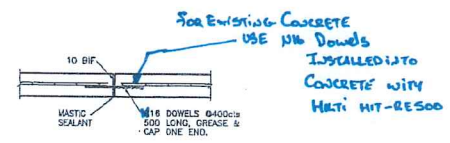
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M16 4.6S BOLTS RECESSED INTO BOARD
TIMBER BUFFER DETAIL/TEMPLATE
 * USE HARDWOOD F11 350x100, ONE 2m BOARD AT CATTLE CUMPS AND DELIVERY.



RW1-RETAINING WALL DETAIL Scale: 1:20



EXPANSION JOINT Scale: 1:20
 JOINT TO BE PROVIDED AT 25m INTERVALS IN WALL AND FOOTING.

AMDT No.	DESCRIPTION	DATE

GENERAL NOTES
 CONCRETE F_c = 25MPa
 SLUMP = 80mm
 DAMP CURE AS SPECIFIED

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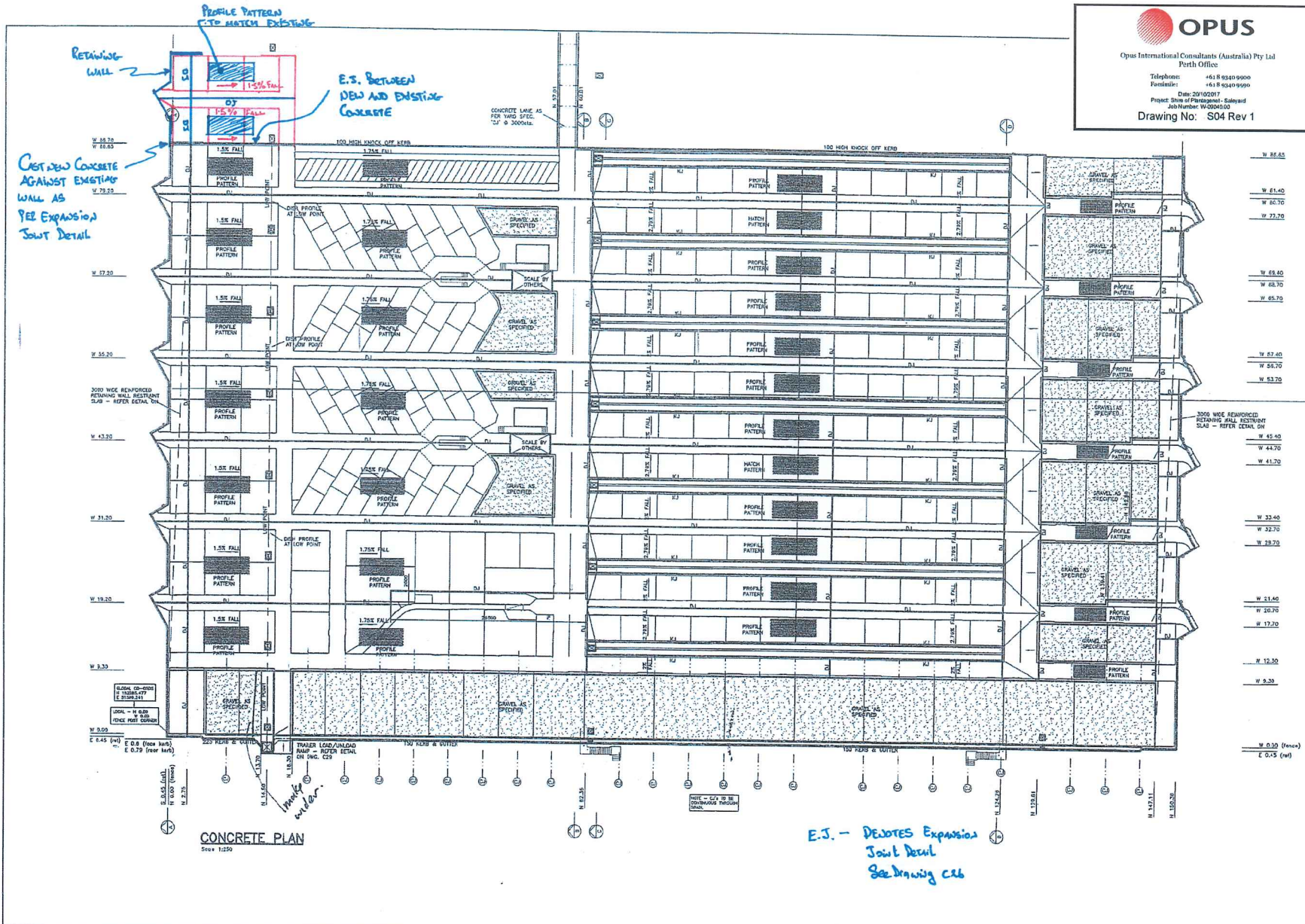


TITLE
 YERRIMINUP NORTH REGIONAL SALEYARDS
 SHIRE OF PLANTAGENET W.A.
 RETAINING WALL PLAN & DETAILS

SHEET	Drawn P.S.	Designed
A1	Checked	JOB : 01101
	Scale: 1:500, 1:20	ANALYST TOTAL AMDT
Author: s.wm	Date: 16/12/97	C26



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 Project: Shire of Plantagenet - Saleyard
 Job Number: W-0504/00
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E.J. - Denotes Expansion Joint Detail
 See Drawing C66

AMOUNT	DESCRIPTION	DATE

GENERAL NOTES

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TITLE
 YERRIMINUP NORTH REGIONAL SALEYARDS
 SHIRE OF PLANTAGENET W.A.
 CONCRETE PLAN

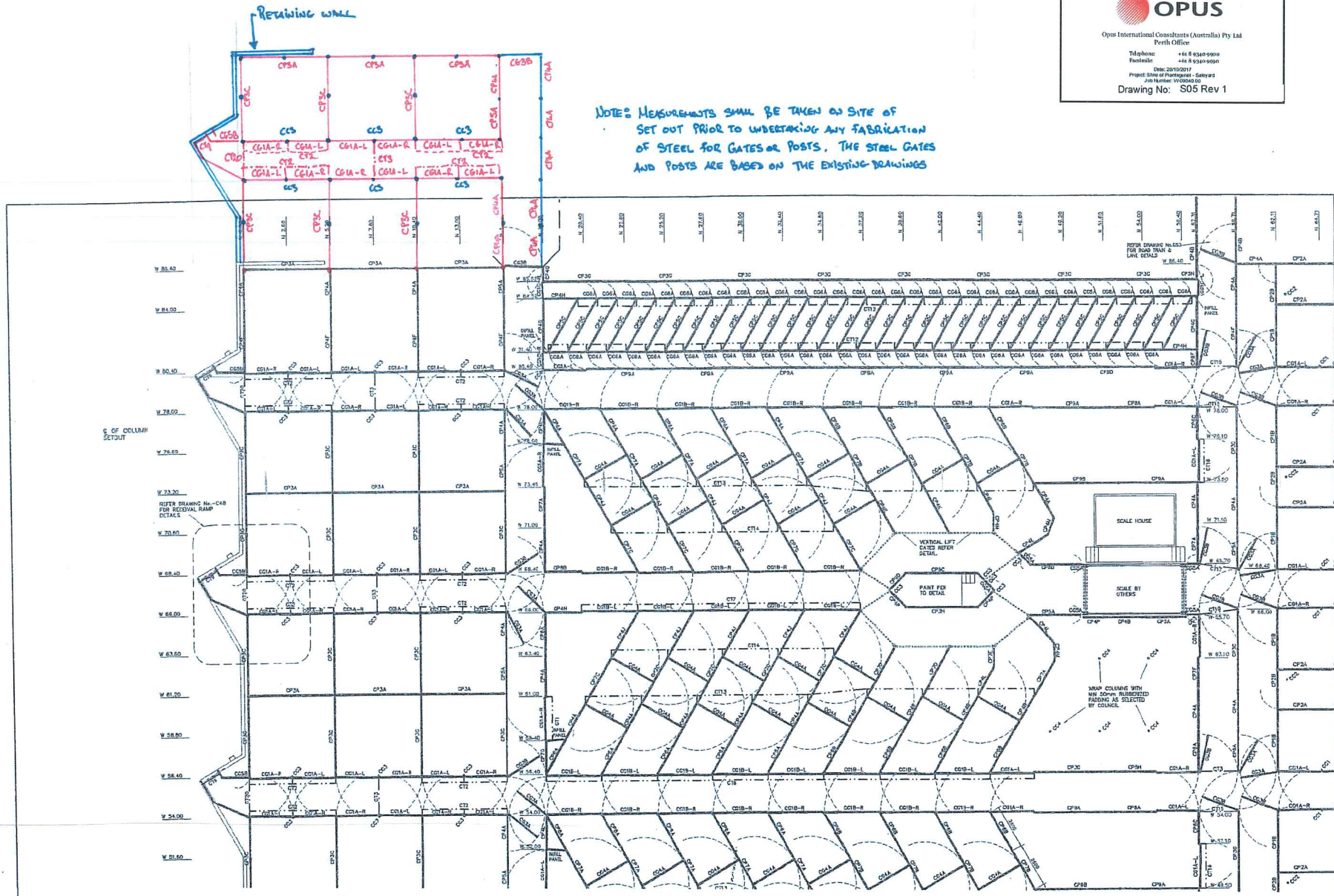
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Date: 24/7/97			

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Date: 20/10/2017
Project Name of Plantagenet - Saleyards
Job Number: YV00000200
Drawing No: S05 Rev 1

NOTE: MEASUREMENTS SHALL BE TAKEN ON SITE OF SET OUT PRIOR TO UNDERTAKING ANY FABRICATION OF STEEL FOR GATES OR POSTS. THE STEEL GATES AND POSTS ARE BASED ON THE EXISTING DRAWINGS



GENERAL NOTES			1.) INFILL PANELS TO BE MEASURED & WELDED ON SITE.			<i>Laurey Fromholz and Associates</i> CONSULTING ENGINEERS P.O. BOX 584 NORTH BRIDGE ROAD, PERTH TELEPHONE (08) 9286 0000 FACSIMILE (08) 9286 0000	PHILIP XEROS PTY. LTD. CONSULTING ENGINEER 50 HANCOCK STREET, WILMUNA W.A. 5100 TELEPHONE (08) 9286 0000 FACSIMILE (08) 9286 0000	XEROS	TITLE YERRIMUNP NORTH REGIONAL SALEYARDS SHIRE OF PLANTAGENET W.A. SUPERSTRUCTURE PLAN No. 2	SHEET B33C A1	Drawn P.S. Checked Scale 1:100 Date 22/10/97	Background JOB : 98103 NUMBER TOTAL C32
AMDT No.	DESCRIPTION	DATE	<table border="1"> <tr> <td>KEY PLAN</td> <td>4</td> <td>8</td> </tr> <tr> <td></td> <td>1</td> <td>3</td> </tr> </table>	KEY PLAN	4							
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