



30 JULY 2014



23613—

-2/A

1:10 CIVIL & STRUCTURAL ENGINE

1:20

BE Civil (Hons) MIE Aust:

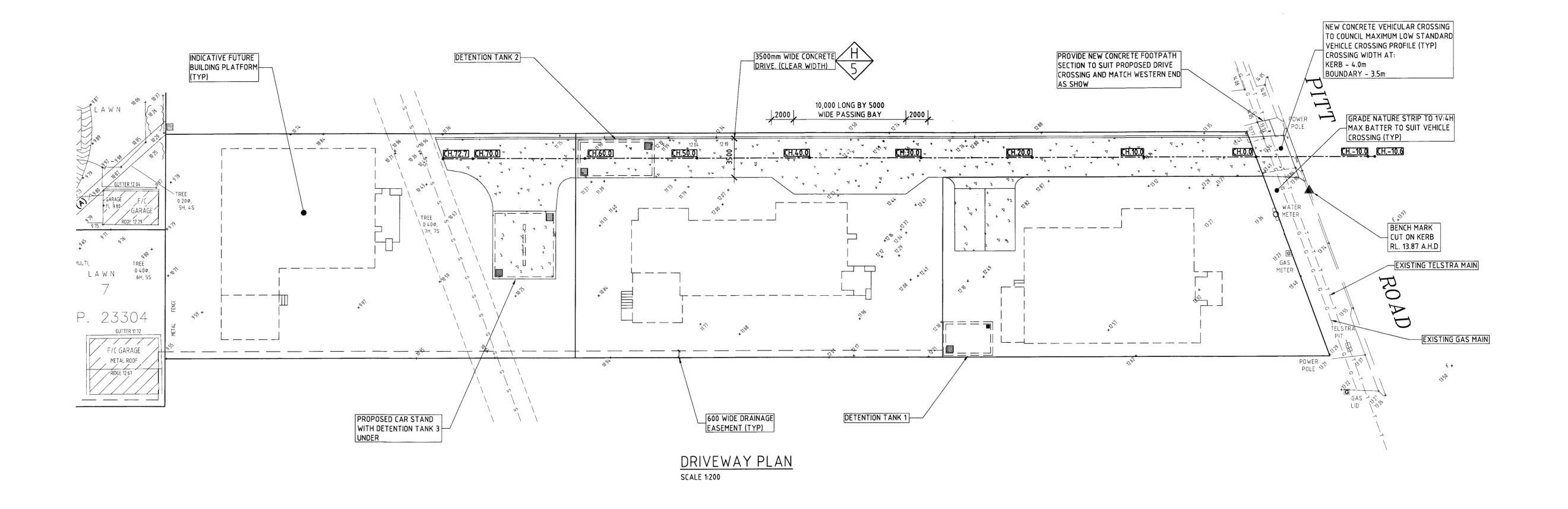
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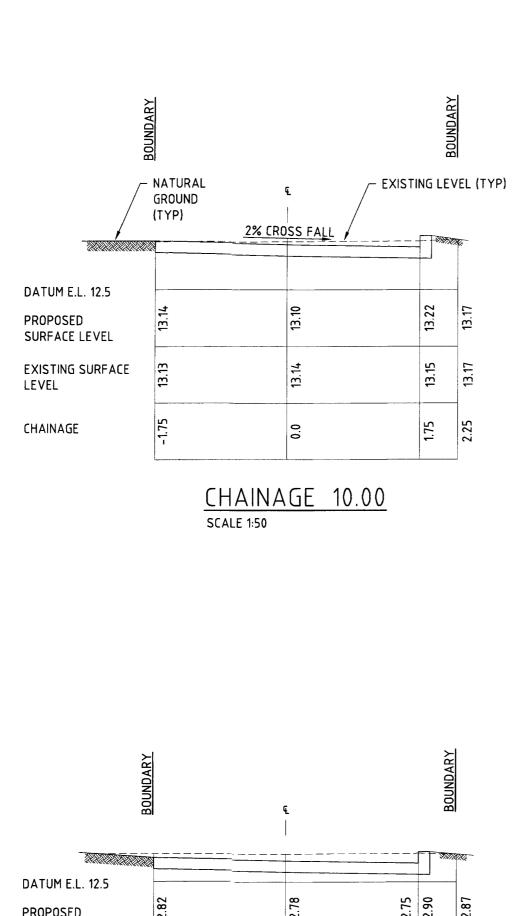


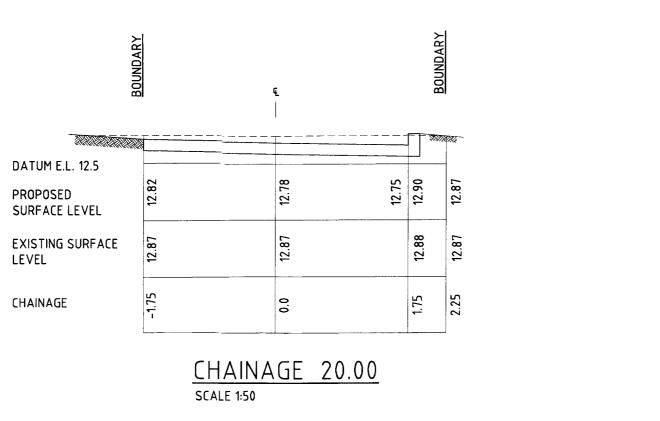


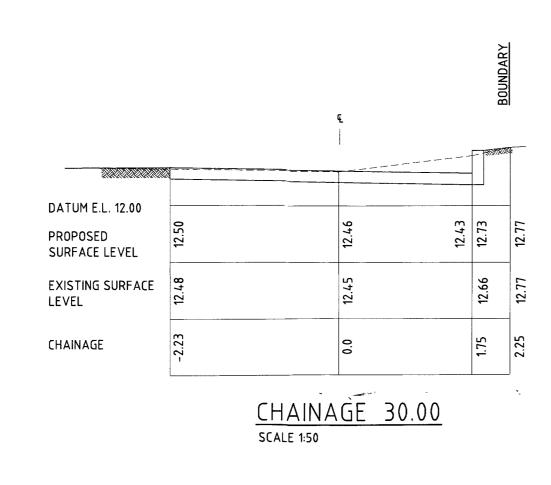
	BOUNDARY			EXISTING SURFACE LEVEL SHOWN DASHED		- PROPOSED CONCRETE DRIVE LEVEL		BOUNDARY	EXISTING GAS MAIN		
		The same was also asked the same and asked the same	4.0% APPROX			3.0% AF	PPROX	5.0% APP	COUNCIL MA LOW STAN ROX VEHICLE CRO	XIMUM DARD ISSING EXIST	ING
PROPOSED PRIVE LEVEL	10.79	10.90	11.31	11.72	12.13	12.46	12.78	13.10	13.62	13.92	14.06
XISTING SURFACE EVEL	10.48	10.53	11.38	11.89	12.37	12.45	12.87	13.14	13.42	13.92	14.06
HAINAGE (m)	72.70	70.0	60.0	50.0	0.04	30.0	20.0	10.0	0:0	-3.67	-10.0

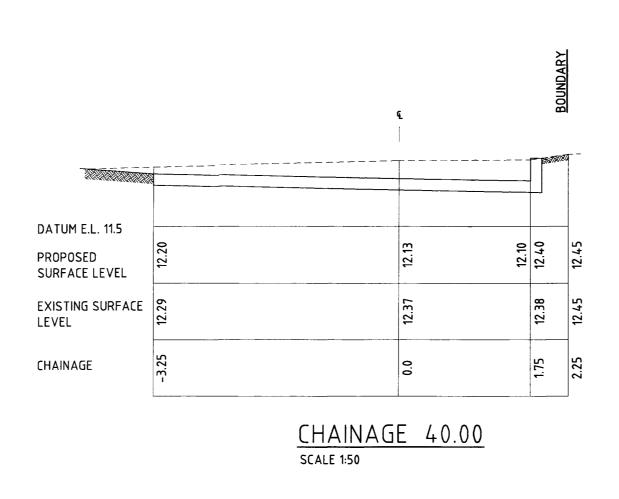
DRIVEWAY LONG-SECTION

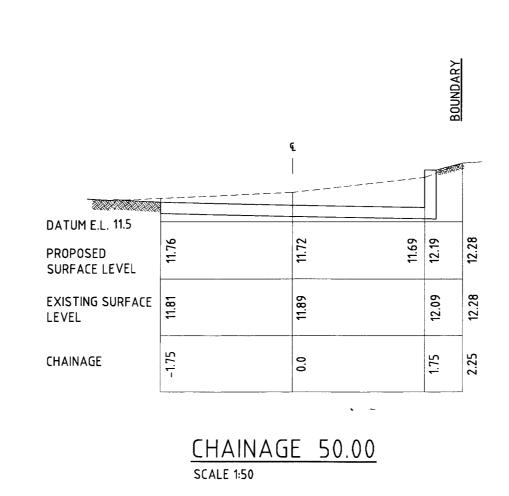
ISSUE DATE	REVISION	101 PITT F	PLAN & LO ROAD, NORT	TAYLOR	23613		
:	:	DRAWN	DATE	CHECKED	SCALE O A1	CONSULTING	
		JBK	30 JULY 2014	BE Civil (Hons) MIE Aust	1:200	CIVIL & STRUCTURAL ENGINEERS	ů W
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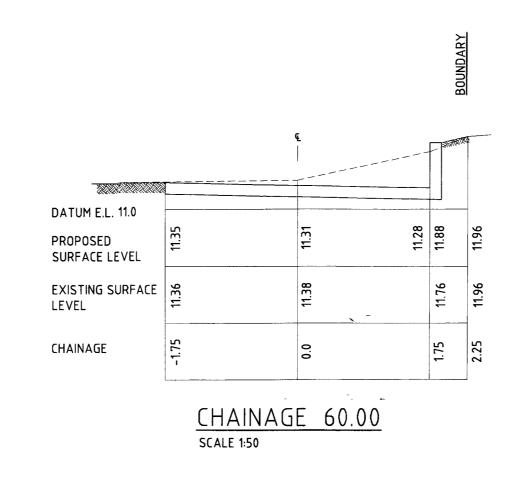


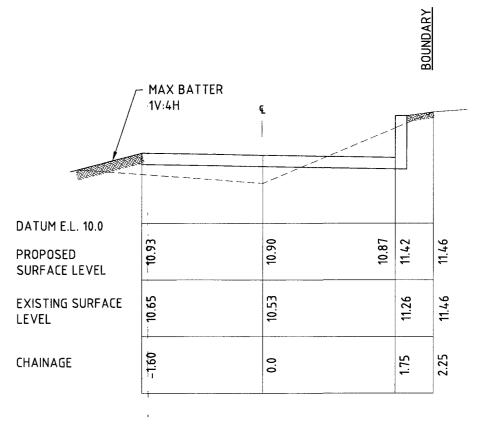




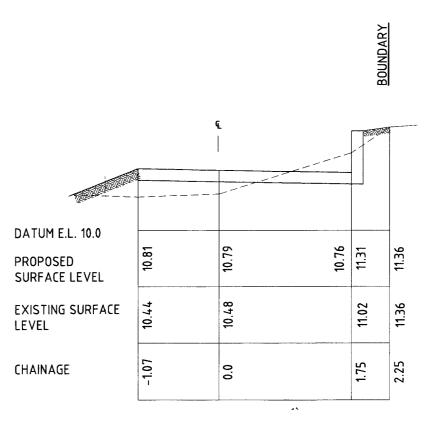




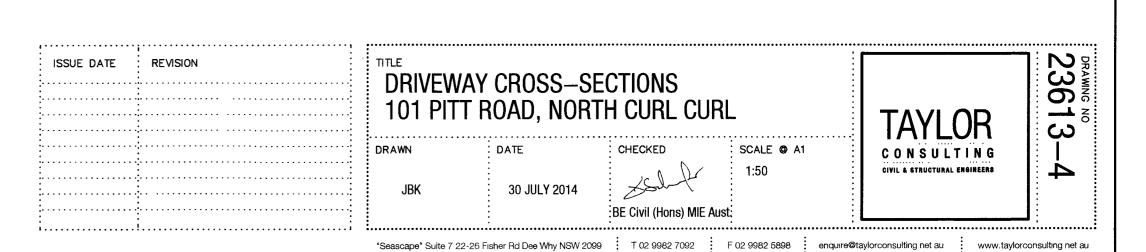


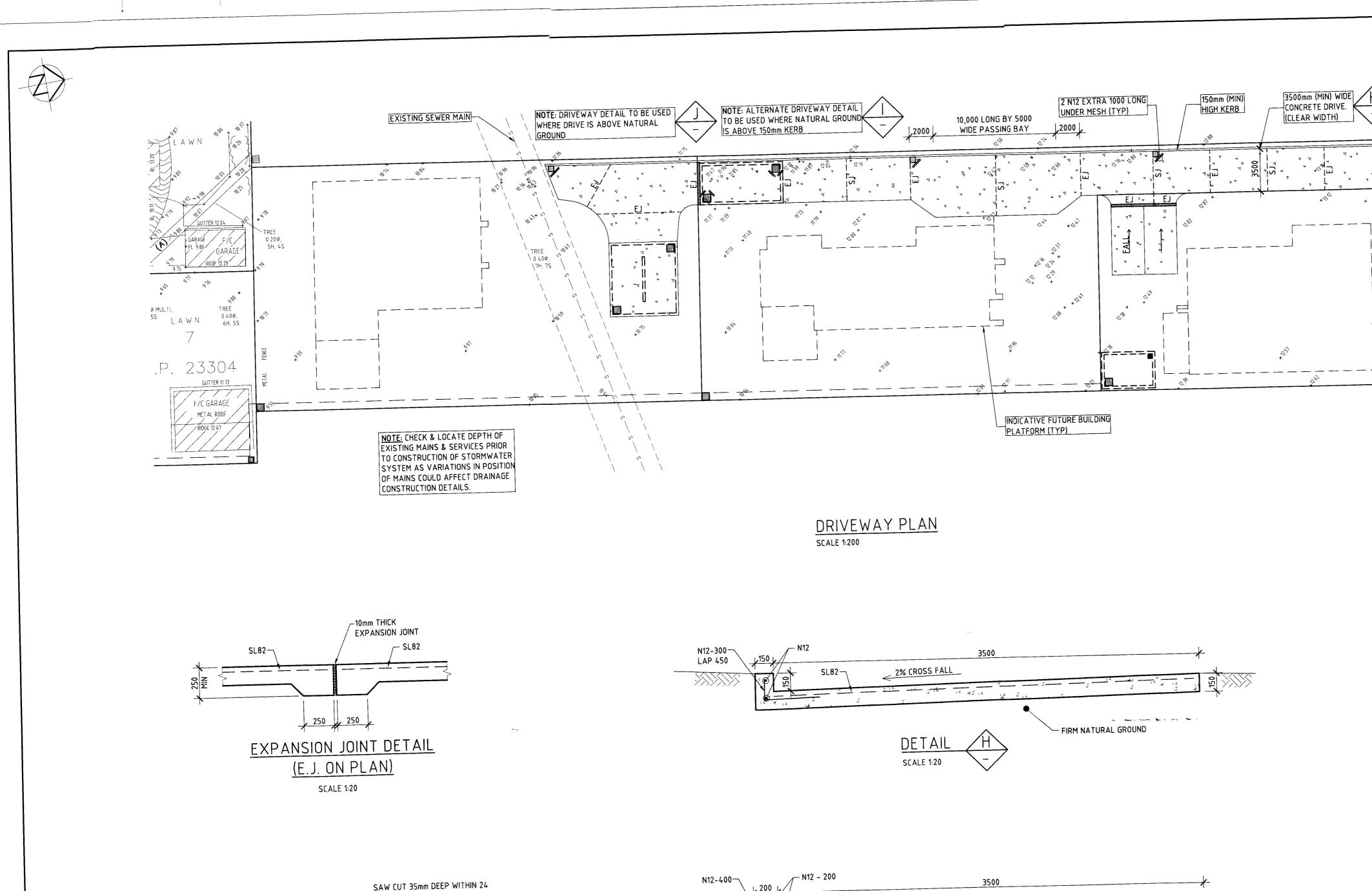


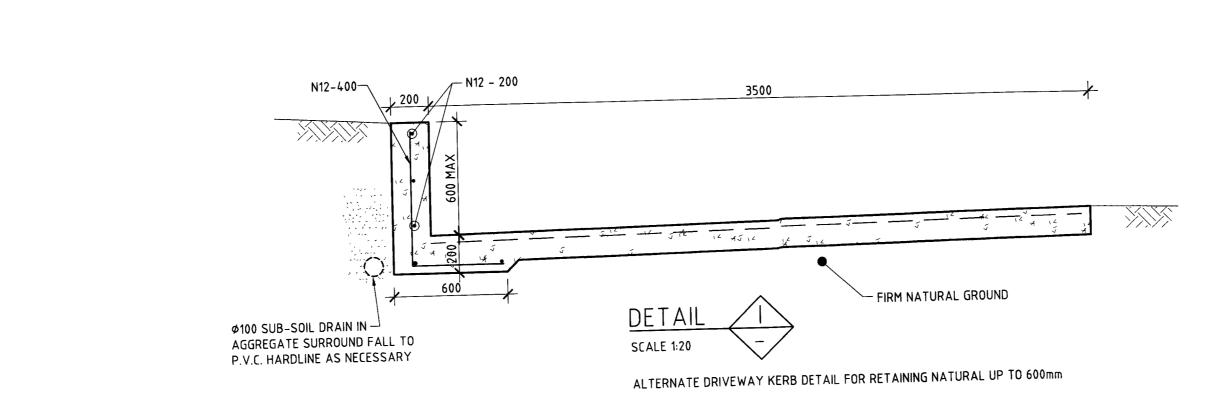
CHAINAGE 70.00
SCALE 1:50



CHAINAGE 72.7
SCALE 1:50





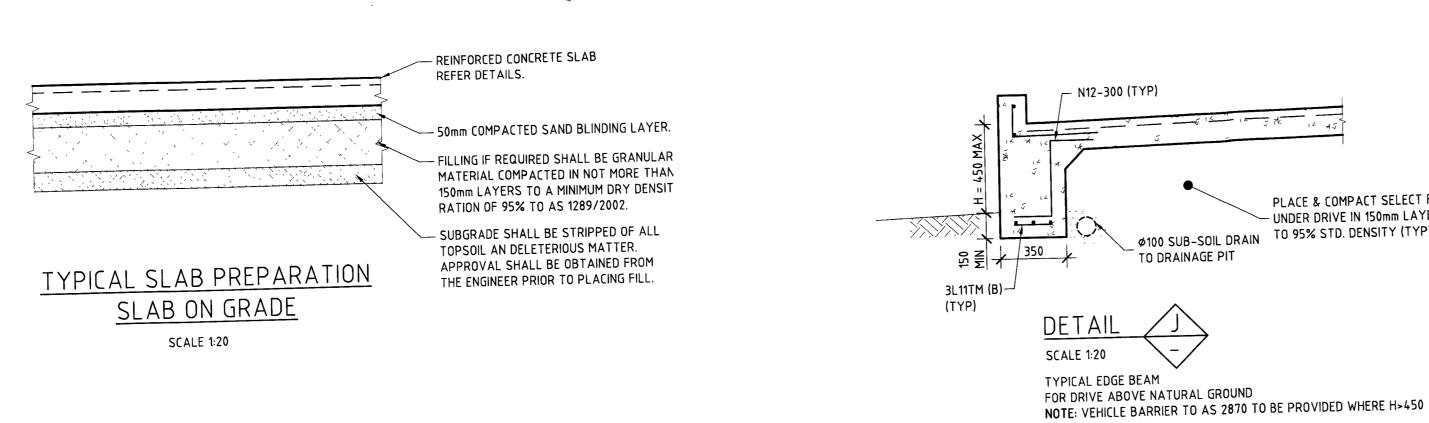


PLACE & COMPACT SELECT FILL

- UNDER DRIVE IN 150mm LAYERS

\$\phi\$100 SUB-SOIL DRAIN TO 95% STD. DENSITY (TYP)

TO DRAINAGE PIT



- HOURS OF POURING CONCRETE. FILL WITH APPROVED SEALANT

STOP FABRIC EACH SIDE OF JOINT.

OVER FOAM BACKING ROD

SAW CUT JOINT DETAIL

(S.J. ON PLAN)

SCALE 1:20



ROAD AND DRAINAGE WORKS TO BE ON ACCORDANCE WITH COUNCIL'S SPECIFICATION FOR ENGINEERING WORKS - AUS-SPEC#1 AND/OR COUNCIL'S MINOR WORKS SPECIFICATION.

NEW CONCRETE VEHICULAR

MAXIMUM LOW STANDARD

CROSSING TO COUNCIL

BENCH MARK

CUT ON KERB RL. 13.87 A.H.D

EXISTING TELSTRA MAIN

EXISTING GAS MAIN

RO

PROFILE (TYP)

- LAYBACK AND GUTTER SHALL BE POURED IN PLAIN CONCRETE AND FINISHED WITH STEEL TROWEL. MINIMUM COMPRESSIVE STRENGTH OF CONCRETE SHALL BE 25MPA AT 28 DAYS
- THE SUBGRADE SHALL BE THROUGHLY COMPACTED BY THE USE OF VIBRATORY COMPACTION EQUIPMENT UNTIL IT SHOWS NO SIGNS OF MOVEMENT, OR AS DIRECTED BY COUNCIL OR SUPERVISING ENGINEER.
- VEHICLE CROSSING TO BE CONSTRUCTED IN ACCORDANCE WITH LEVELS AND SPECIFICATIONS ISSUED BY COUNCIL.
- NEW KERB & GUTTERING TO BE CONSTRUCTED IN ACCORDANCE WITH COUNCIL SPECIFICATIONS.
- PROVIDE Ø100 SUB-SOIL PIPE INTO PITS (WITH CAPPED END).

ISSUE DATE : REVISION

STRUCTURAL DRIVEWAY DETAILS 101 PITT ROAD, NORTH CURL CURL

CHECKED 30 JULY 2014 BE Civil (Hons) MIE Aust:

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true projection. 7. Splices in the reinforcement shall be made only in the positions shown. The written approval of the Supervising Officer shall be obtained for any other splices. Where the lap length is not shown it shall be sufficient to develop the full strength of the reinforcement 8 Welding of reinforcement will not be permitted unless shown on the structural drawings. ____ 25 Min. Lap 2 wires 10. Slab reinforcement shall extend at least 65 onto masonry support walls unless

CONSTRUCTION NOTES

FOUNDATIONS

1 These drawings shall be read in conjunction with all architectural and other consultants drawings and specifications and with such other written instructions as may be issued during the course of the contract. All discrepancies shall be referred to the Supervising

3. All dimensions shall be verified on site by the Contractor who shall be responsible for their

4. The contractor shall be responsible for maintaining the structure and neighbouring

5 All workmanship and materials shall be in accordance with the requirements of the current

SAA Codes and the By-Laws and Ordinances of the relevant Government Authority.

1 All workmanship and materials shall be in accordance with AS 3600, current

Special Requirements

2. Concrete quality All cement shale be Type A Normal Portland Cement.

Excavation shall be taken into Firm Natural Ground

3. Site Classification to AS 2870 is Class S. Site

KERB & DRIVEWAY 80 20 32 DRAINAGE PIT | 80 | 20 | 20

OSD TANK FLOOR | 80 | 20 | 25 OSD TANK ROOF | 80 | 20 | 32

shown otherwise

Strip footings

Columns and piers

Slabs and walls

4. Reinforcement symbols.

denotes square fabric. denotes extent of reinforcement

unless otherwise noted.

shown otherwise

Strength shall be verified by plant control testing

3 Clear concrete cover to reinforcement including ties and stirrups shall as follows unless

Note that slabs placed over a membrane on ground are included as A1

N denotes Grade 500 deformed normal ductility bar to AS 4671 R denotes Grade 250 plain round normal ductility bar to AS 4671.

All unsupported bars shall be tied in the transverse direction to N12-300

SL denotes Grade 500 low ductility square welded mesh to AS 4671. RL denotes Grade 500 low ductility rectangular welded mesh to AS 4671 denotes direction of main bars of rectangular fabric (main bars down for bottom reinforcement, main bars up for top reinforcement)

6. Reinforcement is shown diagramatically and is not necessarily shown in the

Exposure Classification

A1 B1 B2
Sheltered External locations External locations locations over 1km from within 1km of

saltwater shoreline | saltwater shoreline

50

edition with amendments.

structures in a safe and stable condition during construction. No part shall be over-

the allowable bearing pressure on this material is assumed to be 150 $\,$ kPa $\,$ 2. Foundation material shall be approved immediately before placing concrete

Officer for decision before proceeding with the work. Dimensions shall not be obtained by scaling the structural drawings

11. Concrete sizes shown are minimum and no reductions by ducts, pipes, etc shall be made without the approval of the Supervising Officer. Sizes do not include thickness of applied finishes 12. Beam depths are written first and do not include slab thickness. 13. Pipes or conduits shall not be placed within the concrete cover to reinforcement

without the approval of the Supervising Officer 14. No holes or chases other than those shown on the structural drawings shall be made in concrete members without the prior approval of the Supervising Officer 15 Construction joints where not shown shall be located to the approval of

the Supervising Officer 16. The contractor shall notify the Engineer 24 hours before pouring concrete.

17. The concrete shall be compacted using high frequency vibrators. 18. Columns, piers, and pedestals shall be placed 24 hours (min.) before concrete

19. Curing of all concrete surfaces shall commence immediately after surfaces are finished as specified.

BRICK AND CONCRETE BLOCK MASONRY All workmanship and materials shall be in accordance with AS 3700. 2. Two layers of approved metal based slip joint material shall be laid under all slabs

where they bear on brickwork

3. Walls shown on structural drawings are load bearing walls Non load bearing walls under slabs shall be separated from the concrete by a minimum of 10mm thick compressible material.

4 No brickwork which is supported by the slab shall be erected until formwork

5. Brick mortar to be 1.1.6 proportions by volume of cement, lime and sand

6. Brick strength of load bearing brickwork to be a minimum of f'uc = 14 Mpa. REINFORCED CONCRETE BLOCK MASONRY

1 All concrete masonry units shall conform to the requirements of AS 2733 2. The design strength of concrete masonry shall be:

Grade of Units Cement, Lime ,Sand 1:0.1:3 15 MPa TANK WALLS (BLOCKS)

3 Workmanship involved in placing concrete units shall comply with AS 3700

and all units shall be have fully bedded face shells and cross walls.

4 Clean out holes shall be provided at the base of all reinforced cores 5. Unless noted otherwise the cores of all concrete masonry units shall be filled with concrete having a characteristic strength at 28 days (f'c) of 20 MPa

and a slump of 180mm to 230mm when being placed, the concrete filling shall be thoroughly compacted. 6 Max size of course aggregate in concrete used to fill cores shall be 10mm unless shown otherwise. STRUCTURAL STEELWORK

 All workmanship and materials shall be in accordance with AS 4100 and AS 1554 except where varied by the contract documents.

Three (3) copies of all shop details shall be submitted to the engineer for approval of structural sufficiency before fabrication 3. All welds shall be 6mm continuous fillet, all bolts Ø20mm, all gussets plates 10mm

thick, unless noted otherwise on the drawing. . Concrete encased steelwork shall be wrapped with 3mm wire at 100mm centres and shall have a minimum 50 cover of concrete.

5. Steel beams and trusses with span greater than 6m shall be fabricated with an

upwards precamber of 1/500 span in each span unless noted otherwise on the drawings

6. Structural steelwork is to be wire brushed to remove rust and loose mill scale and coated with one coat of approved primed unless noted otherwise on the drawings.

All steelwork cast into brickwork is to be hot dipped galvanised.

Timber construction is to be in accordance with AS 1720 and the Timber Framing Code

2. Timber stress grade shall be F7 unless noted otherwise.

: SCALE @ A1

