THORNHILL PARK ESTATE STAGE 30A WEL.CO GROUP

GENERAL NOTES:

- 1. ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM AND ALL COORDINATES ARE TO MAP GRID OF AUSTRALIA (MGA94) ZONE 55.
- 2. ALL EXISTING SURFACE LEVELS SHOWN ON THE ENGINEERING DRAWINGS HAVE BEEN INTERPOLATED FROM A DIGITAL TERRAIN MODEL. THESE LEVELS HAVE BEEN USED AS THE BASIS FOR ALL ENGINEERING DESIGN AND DETERMINATION OF QUANTITIES AND ARE ACCURATE TO WITHIN ±0.05m.
- ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH AS2124-1992 GENERAL CONDITIONS OF CONTRACT, THE ROAD & DRAINAGE SPECIFICATION, APPROVED MUNICIPALITY SPECIFICATIONS AND STANDARD DRAWINGS AND TO THE SATISFACTION OF THE SUPERINTENDENT AND THE MUNICIPAL ENGINEER OR HIS REPRESENTATIVE.
- ROAD CHAINAGES REFER TO ROAD CENTRELINES. CHAINAGES FOR INTERSECTIONS AND CUL-DE-SACS REFER TO THE LIP OF KERB
- THE LOCATION OF EXISTING SERVICES SHOULD BE DETERMINED BY THE CONTRACTOR PRIOR TO COMMENCING ANY EXCAVATION BY CONTACTING ALL LOCAL SERVICE AUTHORITIES. ANY EXISTING SERVICES SHOWN ON THESE DRAWINGS ARE OFFERED AS A GUIDE ONLY AND ARE NOT GUARANTEED AS CORRECT.
- WHERE REQUIRED ANY BUILDINGS, TROUGHS, FENCES AND OTHER STRUCTURES ON SITE ARE TO BE REMOVED AS DIRECTED BY THE ENGINEER. THE COST OF REMOVAL IS TO BE INCLUDED IN THE OVERALL EARTHWORKS FIGURE UNLESS A SPECIFIC ITEM FOR REMOVAL IS DENOTED IN THE
- ALL EXCAVATED ROCK AND SURPLUS SPOIL TO BE REMOVED AND DISPOSED OFF SITE UNLESS NOTED OTHERWISE.
- 8. ALL FILLING ON LOTS AND WITHIN ROAD RESERVES IS TO BE UNDERTAKEN USING LEVEL 1 SUPERVISION AND BE COMPLETED IN ACCORDANCE WITH AS 3798-2007. FILL AREAS ARE TO BE STRIPPED OF TOPSOIL, FILLED AND REPLACED WITH TOPSOIL (WHERE REQUIRED) TO OBTAIN THE FINAL LEVELS SHOWN ON THE DRAWINGS.
- 9. FILLING MATERIAL IS TO BE IN ACCORDANCE WITH THE SPECIFICATION, AS 3798-2007 & TO THE SATISFACTION OF COUNCIL AND THE SUPERINTENDENT.
- 10. ALL BATTERS SHALL BE 1 IN 6, UNLESS OTHERWISE SHOWN.
- 11. NO FILL OR STOCKPILING OF MATERIAL IS TO BE PLACED ON ANY RESERVE FOR PUBLIC OPEN SPACE UNLESS OTHERWISE DIRECTED OR APPROVED BY THE SUPERINTENDENT.
- 12. TBM'S TO BE RE-ESTABLISHED BY THE LICENSED SURVEYOR IF FOUND TO BE MISSING AT THE COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR CARE AND MAINTENANCE OF T.B.M.'S THEREAFTER.
- 13. AT LEAST 3 DAYS PRIOR TO COMMENCING WORK ON EXCAVATIONS IN EXCESS OF 1.50m DEEP. A NOTIFICATION FORM MUST BE SENT TO WORKSAFE. THE CONTRACTOR IS TO COMPLY WITH WORKSAFE, THE MINES (TRENCHES) REGULATION 1982, THE MINES ACT 1958 AND OCCUPATIONAL HEALTH AND SAFETY ACT 1985, 2004.
- 14. ALL SERVICE TRENCHES UNDER DRIVEWAYS, FOOTPATHS AND PARKING BAYS TO BE BACKFILLED WITH CLASS 2 CRUSHED ROCK. SERVICE TRENCHES LESS THAN 750mm BEHIND KERB AND CHANNEL OR PAVED TRAFFIC AREAS ARE ALSO TO BE BACKFILLED WITH COMPACTED CLASS 2 CRUSHED
- WHERE REQUIRED, ALL EXISTING DAMS, DEPRESSIONS AND DRAINS ARE TO BE BREACHED, DRAINED, DESLUDGED AND SHALL BE EXCAVATED TO A CLEAN FIRM BASE. THE SURFACE SHALL BE INSPECTED, APPROVED AND LEVELED BY THE ENGINEER PRIOR TO COMMENCEMENT OF FILLING. THE FILL SHALL BE APPROVED SELECTED ON SITE MATERIAL OR APPROVED IMPORTED MATERIAL. THE FILL SHALL BE PLACED UNDER CONTROLLED MOISTURE CONDITIONS IN ACCORDANCE WITH THE SPECIFICATION
- 16. NO BLASTING TO BE CARRIED OUT WITHIN THE MUNICIPALITY WITHOUT OBTAINING COUNCIL AND SUPERINTENDENT WRITTEN PERMISSION.
- 17. GAS AND WATER CONDUITS ARE TO BE Ø50mm . CLASS 12 P.V.C. - SINGLE SERVICE

Ø100mm . CLASS 12 P.V.C. – DUAL SERVICE (DRINKING AND NON DRINKING WATER)

FROM THE PROPERTY LINE UNLESS SHOWN OTHERWISE.

WITH THE FOLLOWING MINIMUM COVER TO FINISHED SURFACE LEVELS:

ROAD PAVEMENT - 0.80m VERGE, FOOTPATHS - 0.45m

- 18. ALL SERVICE CONDUIT TRENCHES UNDER ROAD PAVEMENTS TO BE BACKFILLED IN ACCORDANCE WITH RELEVANT MUNICIPALITY OR ROAD AUTHORITY SPECIFICATION.
- 19. AG/SUBSOIL DRAIN TO BE LAID BEHIND KERB WHERE REQUIRED IN ACCORDANCE WITH THE COUNCIL STANDARD DRAWINGS AND CONNECTED TO UNDERGROUND DRAINAGE.
- 20. ALL STORMWATER DRAINS ARE TO BE CLASS '2' R.C. PIPES UNLESS OTHERWISE SHOWN. ALL R.C. JOINTS ARE TO BE RUBBER RING JOINTED (R.R.J.).
- 21. CENTRELINES OF ALL EASEMENT DRAINS ARE OFFSET 1.0m OR 2.2m (WHERE OUTSIDE OF SEWER)
- 22. WHERE CURVED PIPE ALIGNMENTS ARE SHOWN ON THE FACE PLANS THEY ARE TO BE LAID PARALLEL TO THE BACK OF KERB, EXCEPT WHERE A RADIUS HAS BEEN SPECIFICALLY NOMINATED. CURVED PIPES ARE TO BE APPROVED BY COUNCIL AND IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS.
- 23. WATER TAPPINGS TO BE LOCATED IN CENTRE OF ALLOTMENTS UNLESS OTHERWISE SHOWN.
- 24. PAVEMENT DEPTHS MAY BE MODIFIED AS DIRECTED BY THE SUPERINTENDENT. PAVEMENT TO BE BOXED OUT TO MINIMUM DEPTH DENOTED, INSPECTED AND IF SUBGRADE IS IN QUESTION, FURTHER TESTING CARRIED OUT TO DETERMINE FINAL PAVEMENT DEPTH.
- 25. WHERE PAVEMENT IS CONSTRUCTED ON FILLING, FILL MATERIAL IS TO BE APPROVED BY THE SUPERINTENDENT AND COUNCIL. FILLING TO BE CONSTRUCTED IN LAYERS 150mm THICK WITH COMPACTION ACHIEVING 95% AUSTRALIAN STANDARD DENSITY.

- 26. WHEN PAVEMENT EXCAVATION IS IN ROCK, ALL LOOSE MATERIAL (INCLUDING ROCKS AND CLAY) MUST BE REMOVED. THE SUB-GRADE MUST THEN BE REGULATED WITH COUNCIL APPROVED
- 27. LINEMARKING AND SIGNAGE TO BE INSTALLED IN ACCORDANCE WITH AS 1742 SERIES UNLESS NOTED OTHERWISE. STREET SIGNS ARE TO BE INSTALLED IN ACCORDANCE WITH COUNCIL STANDARDS.
- 28. ALL TEMPORARY WARNING SIGNS USED DURING CONSTRUCTION SHALL BE SUPPLIED AND MAINTAINED IN ACCORDANCE WITH AS 1742-3.
- 29. TACTILE GROUND SURFACE INDICATORS ARE TO BE INSTALLED IN ACCORDANCE WITH THE DISABILITY DISCRIMINATION ACT AND RELEVANT COUNCIL STANDARD DRAWINGS.
- 30. CONTRACTOR TO PROVIDE AN ENVIRONMENTAL MANAGEMENT PLAN INCLUDING SILT AND SEDIMENT RUNOFF PROTECTION ETC. PRIOR TO THE COMMENCEMENT OF WORKS.
- 31. ALL TREES AND SHRUBS ARE TO BE RETAINED UNLESS OTHERWISE SHOWN. IF ROAD AND DRAINAGE CONSTRUCTION NECESSITATES THEIR REMOVAL, WRITTEN PERMISSION MUST BE OBTAINED FROM
- 32. TREES NOT SPECIFIED FOR REMOVAL ARE TO BE PROTECTED WITH APPROPRIATE EXCLUSION FENCING PRIOR TO COMMENCEMENT OF ANY WORKS.
- 33. THE CONTRACTOR IS REQUIRED TO OBTAIN A 'PERMIT TO WORK' FROM MELBOURNE WATER'S SURVEILLANCE OFFICER AT THE PRE-COMMENCEMENT MEETING. THE CONTRACTOR IS REQUIRED TO ENSURE THAT THE 'PERMIT TO WORK' IS KEPT UP TO DATE FOR THE DURATION OF THE CONTRACT

DRAWING SCHEDULE

| REF | DESCRIPTION | REV | SHEET No. |
|-------|---|-----|--------------|
| CR100 | FACE SHEET | Е | 1 |
| CR200 | LAYOUT PLAN - SHEET 1 OF 2 | D | 2 |
| CR201 | LAYOUT PLAN - SHEET 2 OF 2 | D | 3 |
| CR202 | SERVICES PLAN - SHEET 1 OF 2 | Е | 4 |
| CR203 | SERVICES PLAN - SHEET 2 OF 2 | Е | 5 |
| CR300 | ROAD LONGITUDINAL SECTIONS - SHEET 1 OF 3 | D | 6 |
| CR301 | ROAD LONGITUDINAL SECTIONS - SHEET 2 OF 3 | D | 7 |
| CR302 | ROAD LONGITUDINAL SECTIONS - SHEET 3 OF 3 | D | 8 |
| CR400 | ROAD CROSS SECTIONS - SHEET 1 OF 8 | D | 9 |
| CR401 | ROAD CROSS SECTIONS - SHEET 2 OF 8 | D | 10 |
| CR402 | ROAD CROSS SECTIONS - SHEET 3 OF 8 | D | 11 |
| CR403 | ROAD CROSS SECTIONS - SHEET 4 OF 8 | D | 12 |
| CR404 | ROAD CROSS SECTIONS - SHEET 5 OF 8 | D | 13 |
| CR405 | ROAD CROSS SECTIONS - SHEET 6 OF 8 | D | 14 |
| CR406 | ROAD CROSS SECTIONS - SHEET 7 OF 8 | D | 15 |
| CR407 | ROAD CROSS SECTIONS - SHEET 8 OF 8 | D | 16 |
| CR500 | INTERSECTION DETAILS - SHEET 1 OF 6 | D | 17 |
| CR501 | INTERSECTION DETAILS - SHEET 2 OF 6 | D | 18 |
| CR502 | INTERSECTION DETAILS - SHEET 3 OF 6 | D | 19 |
| CR503 | INTERSECTION DETAILS - SHEET 4 OF 6 | D | 20 |
| CR504 | INTERSECTION DETAILS - SHEET 5 OF 6 | D | 21 |
| CR505 | INTERSECTION DETAILS - SHEET 6 OF 6 | D | 22 |
| CR600 | DRAINAGE LONG SECTIONS - SHEET 1 OF 4 | D | 23 |
| CR601 | DRAINAGE LONG SECTIONS - SHEET 2 OF 4 | D | 24 |
| CR602 | DRAINAGE LONG SECTIONS - SHEET 3 OF 4 | D | 25 |
| CR603 | DRAINAGE LONG SECTIONS - SHEET 4 OF 4 | D | 26 |
| CR604 | TEMPORARY RETARDING BASIN – PLAN & SECTIONS | C | 27 |
| CR605 | TEMPORARY RETARDING BASIN - DETAILS | С | 28 |
| CR605 | | С | 28 |



LOCALITY PLAN SCALE: 1:5000

| REF | DESCRIPTION | REV | SHEET No. |
|-------|---|-----|--------------|
| CR700 | PAVEMENT AND TYPICAL DETAILS | D | 29 |
| CR701 | WASHINGTON DRIVE SPEED HUMP | D | 30 |
| CR702 | LYNWOOD DRIVE SPEED HUMP - SHEET 1 OF 2 | D | 31 |
| CR703 | LYNWOOD DRIVE SPEED HUMP - SHEET 2 OF 2 | D | 32 |
| CR704 | IWMS KERB CUT LOCATIONS - SHEET 1 OF 2 | D | 33 |
| CR705 | IWMS KERB CUT LOCATIONS - SHEET 2 OF 2 | D | 34 |
| CR706 | IWMS & TYPICAL DETAILS - SHEET 1 OF 2 | D | 35 |
| CR707 | IWMS & TYPICAL DETAILS - SHEET 2 OF 2 | D | 36 |
| CR800 | SIGNAGE AND LINEMARKING – SHEET 1 OF 2 | D | 37 |
| CR801 | SIGNAGE AND LINEMARKING - SHEET 2 OF 2 | D | 38 |



WARNING

BEWARE OF UNDERGROUND/OVERHEAD SERVICES THE LOCATION OF SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. SPECIAL CONSIDERATION SHOULD BE GIVEN TO CONSTRUCTION PROCEDURES UNDER OVERHEAD ELECTRICITY TRANSMISSION LINES.

LEGEND

| DESCRIPTION |
|--------------------------------------|
| WATER MAIN, VALVE AND HYDRANT |
| UNDERGROUND ELECTRICITY |
| OVERHEAD ELECTRICITY & POLE |
| TELECOMMUNICATIONS & SERVICE PIT |
| OPTIC FIBRE |
| OVERHEAD TELECOMMUNICATIONS |
| GAS MAIN |
| SEWER & MAINTENANCE STRUCTURE |
| SEWER RISING MAIN |
| CENTRAL INVERT |
| COUNCIL STORMWATER DRAIN AND PIT |
| STORM WATER DRAINAGE PROPERTY INLETS |
| COUNCIL STORM WATER PITS |
| HOUSE DRAIN |
| AG DRAIN AND FLUSHER |
| MWC STORM WATER DRAIN & PIT |
| MWC STORM WATER PITS |
| STORM WATER DRAINAGE PIT NUMBER |
| GAS & WATER CONDUITS |
| CONCRETE VEHICLE CROSSING |
| CONCRETE HEAVY DUTY VEHICLE CROSSING |
| SURFACE CONTOUR MINOR |
| SURFACE CONTOUR MAJOR |
| SURFACE LEVEL |
| BATTER LEVEL (TOP / TOE) |
| EARTHWORKS GRADE |
| SIGN AND POST |
| STREET SIGN |
| PERMANENT SURVEY MARK |
| TEMPORARY BENCH MARK |
| BOLLARD |
| ROAD CHAINAGES |
| LOT CHAINAGES |
| SETOUT POINT |
| LIMIT OF WORKS |
| BATTER |
| EVCAVATION CDEATED THAN 0.20m |

ROCK BEACHING

FENCES

F00TPATH

PAVEMENT

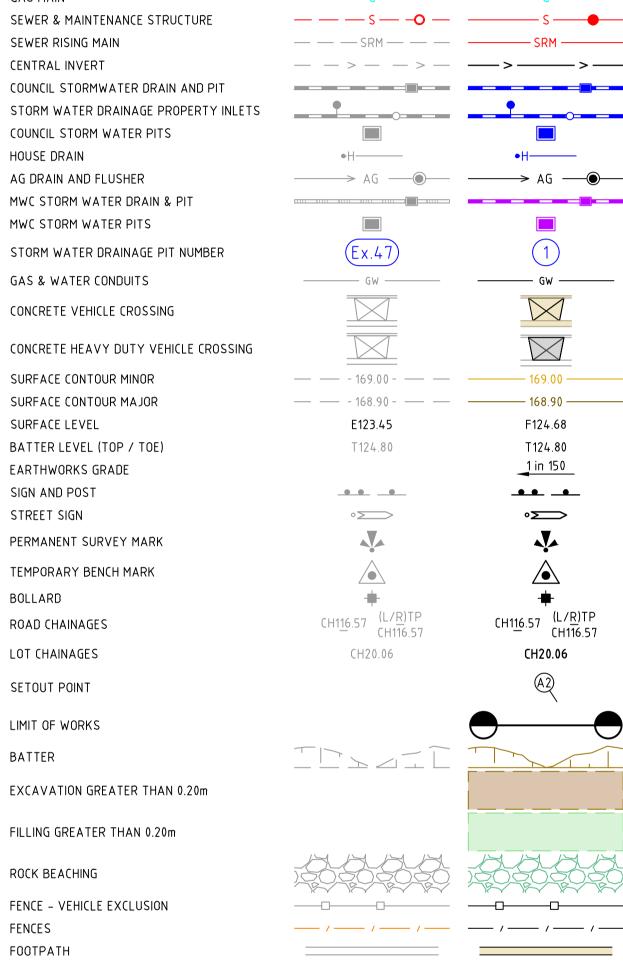
TACTILE GROUND SURFACE INDICATOR

TREE TO BE PROTECTED

TREE TO BE REMOVED

IWMS DETAILS

TREE (& SURVEYED CANOPY) TO BE RETAINED



PROPOSED

thornhill

Checked Designed Authorised

THORNHILL PARK ESTATE **STAGE 30A ROAD AND DRAINAGE FACE SHEET** MELTON CITY COUNCIL WEL.CO GROUP

PRELIMINARY 306842CR100

TYPE A (SINGLE TREE)

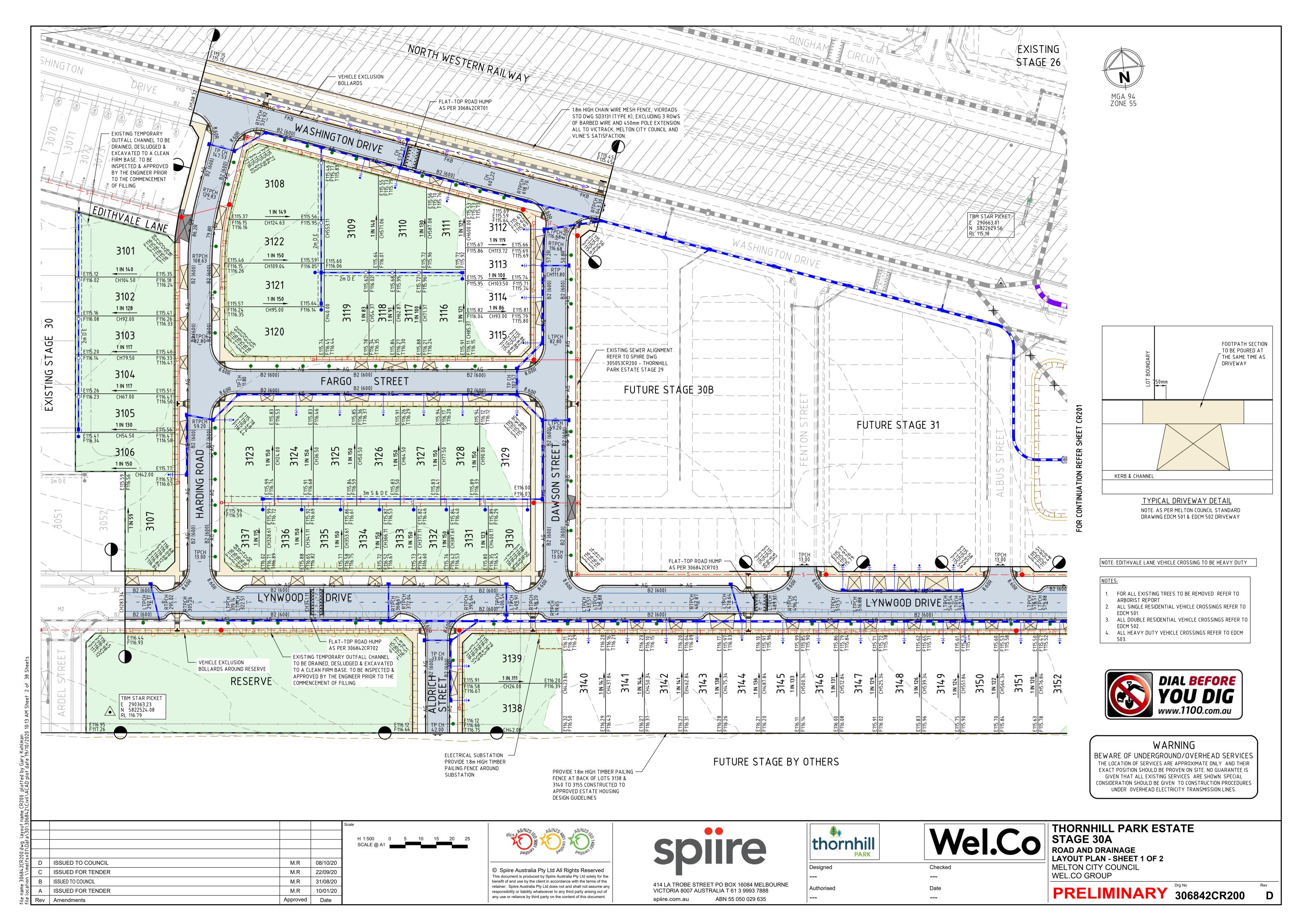
TYPE C (ROAD SURFACE RUN OFF SWALE)

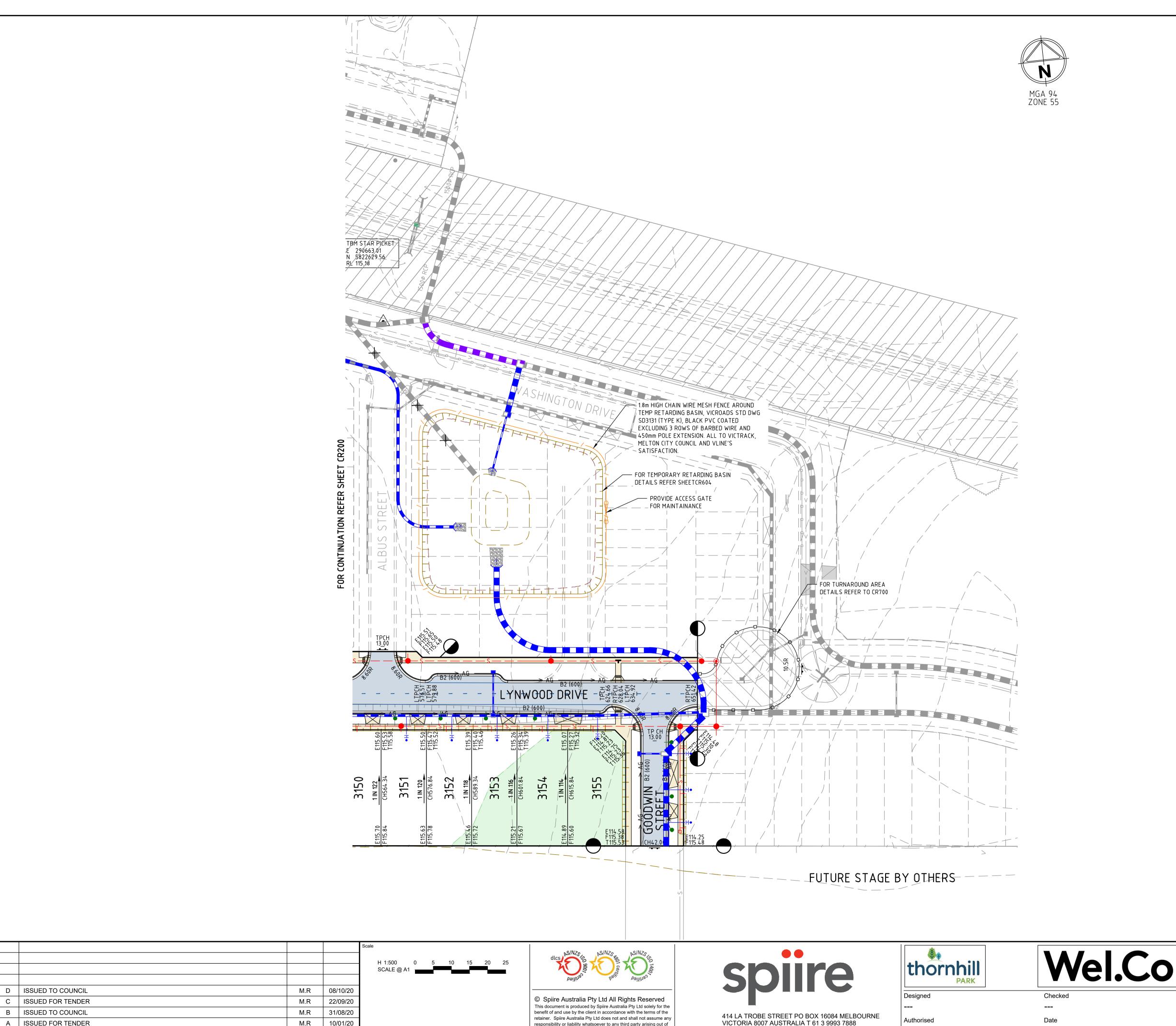
| 03 | M.R | 19/10/20 | |
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| | M.R | 08/10/20 | |
| | M.R | 22/09/20 | |
| | M.R | 31/08/20 | |
| | M.R | 10/01/20 | |
| | Approved | Date | |
| | 203 | M.R M.R M.R M.R | M.R 08/10/20 M.R 22/09/20 M.R 31/08/20 M.R 10/01/20 |

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- 1. FOR ALL ISLANDS REFER TO CITY OF MELTON STANDARD DRAWINGS MCC 305, 306, 307 AND 308.
- 2. FOR ALL EXISTING TREES TO BE REMOVED REFER TO
- ARBORIST REPORT 3. ALL SINGLE RESIDENTIAL VEHICLE CROSSINGS REFER TO
- EDCM 501.
- 4. ALL DOUBLE RESIDENTIAL VEHICLE CROSSINGS REFER TO EDCM 502.
- 5. ALL HEAVY DUTY VEHICLE CROSSINGS REFER TO EDCM



WARNING

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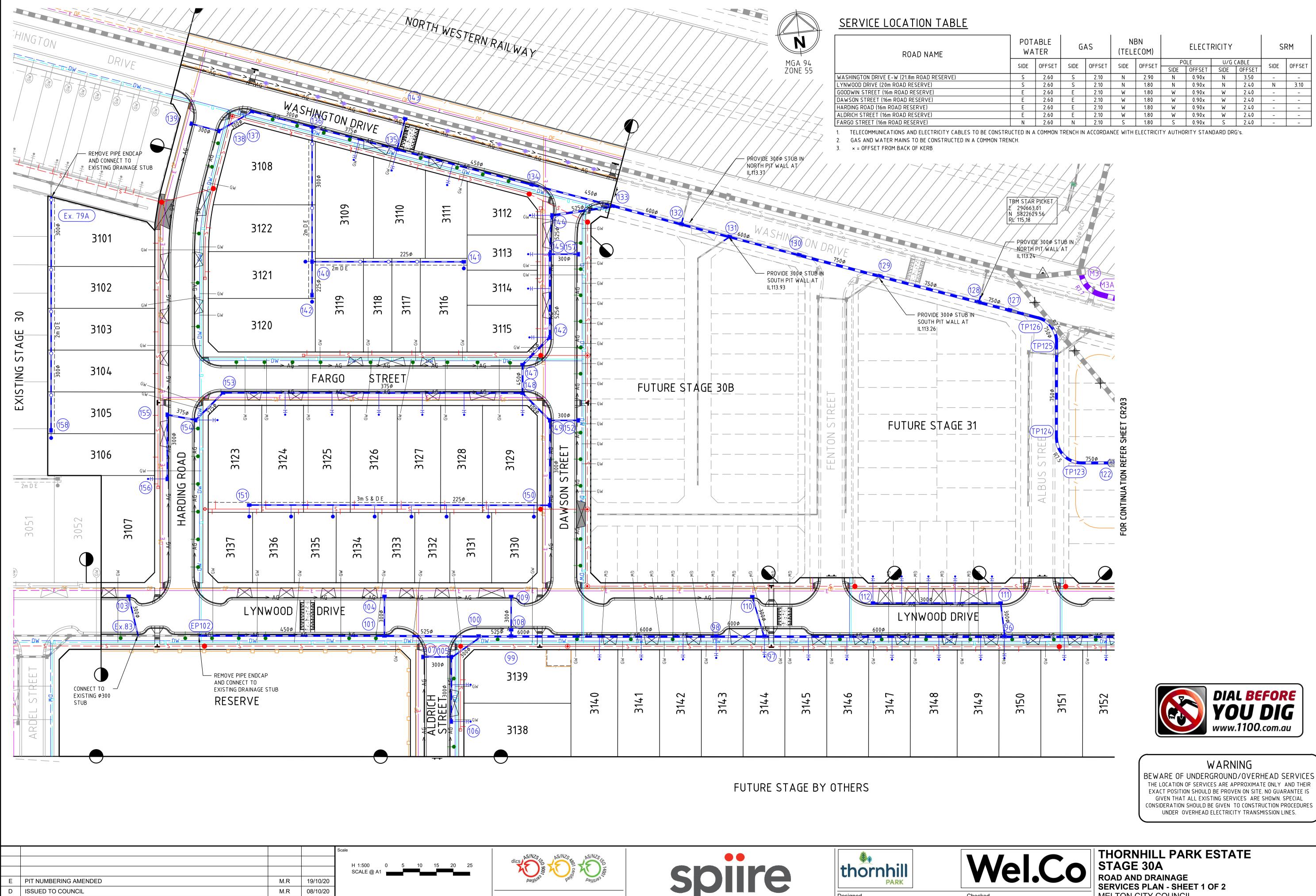
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THORNHILL PARK ESTATE STAGE 30A ROAD AND DRAINAGE LAYOUT PLAN - SHEET 2 OF 2

MELTON CITY COUNCIL WEL.CO GROUP



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ISSUED TO COUNCIL

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ISSUED TO COUNCIL

Rev Amendments

M.R

M.R

M.R

M.R

M.R

Approved

19/10/20

08/10/20

22/09/20

31/08/20

10/01/20

Date

THORNHILL PARK ESTATE STAGE 30A

ROAD AND DRAINAGE SERVICES PLAN - SHEET 1 OF 2 MELTON CITY COUNCIL WEL.CO GROUP

Designed

Authorised

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Checked

PRELIMINARY 306842CR202

ELECTRICITY

SIDE OFFSET

N 0.90x

W 0.90x

W 0.90x

W 0.90x

0.90x

SIDE

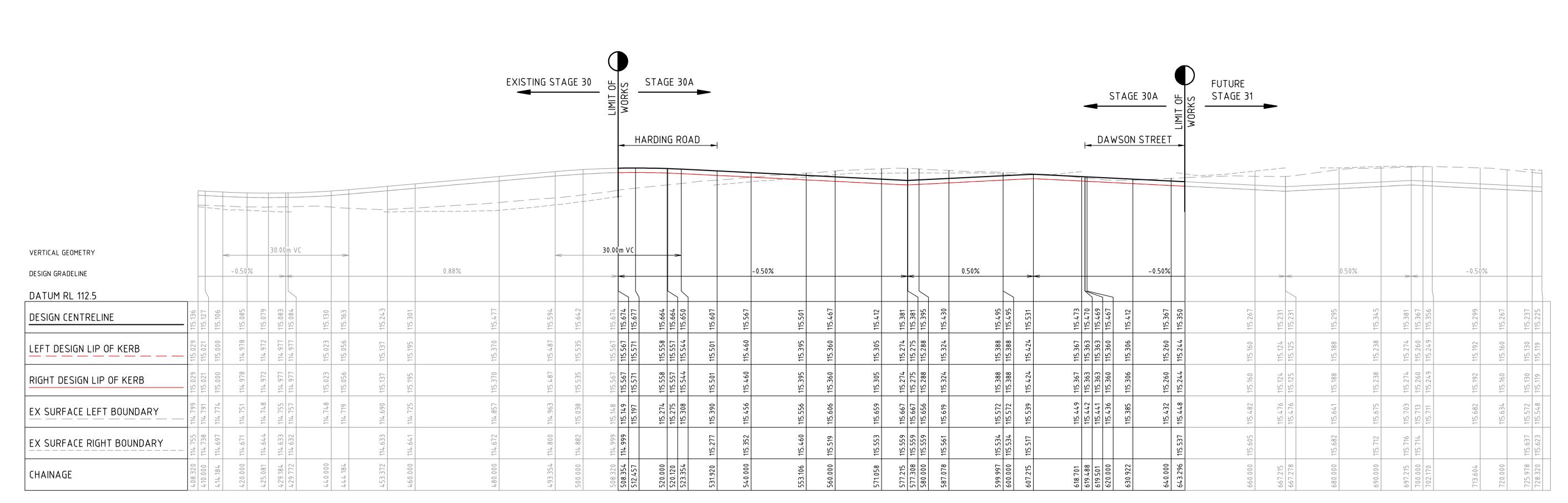
OFFSET

WARNING

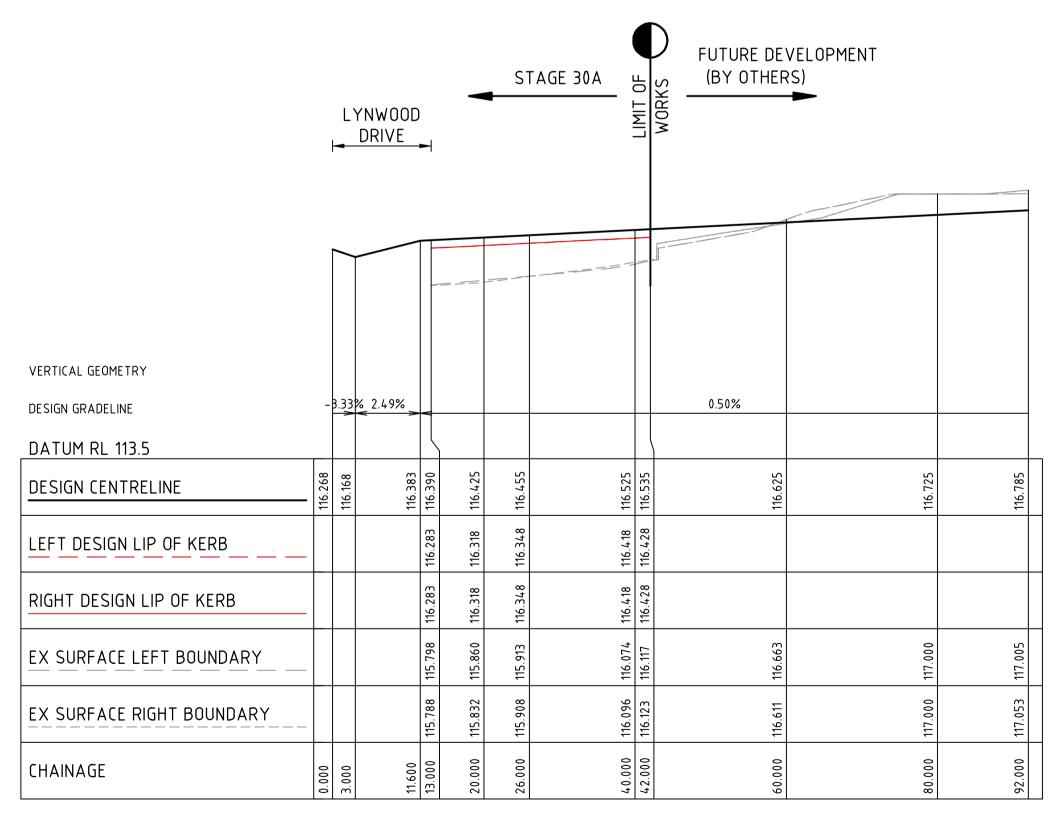
THE LOCATION OF SERVICES ARE APPROXIMATE ONLY AND THEIR

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/EXISTING SERVICE LOCATION TABLE STAGE 26 POTABLE ELECTRICITY GAS (TELECOM) WATER ROAD NAME SIDE SIDE OFFSET SIDE OFFSET SIDE OFFSET SIDE OFFSET SIDE OFFSET WASHINGTON DRIVE E-W (21.8m ROAD RESERVE) 0.90xN 0.90x YNWOOD DRIVE (20m ROAD RESERVE) 1.80 2.10 GOODWIN STREET (16m ROAD RESERVE) 1.80 W 0.90x 2.10 DAWSON STREET (16m ROAD RESERVE) W 0.90x 1.80 HARDING ROAD (16m ROAD RESERVE) 1.80 W 0.90x W 2.40 E 2.60 E 2.10 W 1.80 W 0.90x W 2.40 N 2.60 N 2.10 S 1.80 S 0.90x S 2.40 ALDRICH STREET (16m ROAD RESERVE) FARGO STREET (16m ROAD RESERVE) TELECOMMUNICATIONS AND ELECTRICITY CABLES TO BE CONSTRUCTED IN A COMMON TRENCH IN ACCORDANCE WITH ELECTRICITY AUTHORITY STANDARD DRG's. GAS AND WATER MAINS TO BE CONSTRUCTED IN A COMMON TRENCH. 3. \times = OFFSET FROM BACK OF KERB FUTURE DEVELOPMENT (BY OTHERS) TBM STAR PICKET E 290663,01 N 5822629.56 RL 115.1/8 MGA 94 ZONE 55 EXISTING MELBOURNE WATER , 1500¢ PIPE. REFER VICTRACK REFERENCE L/19/27 — EXISTING 1350 ₱ PIPE & PIT, CONSTRUCTED AS PART OF STAGE 29 WORKS. REFER TO SPIIRE DWG 305053CR200. ✓ ULTIMATE MELBOURNE ■ STAGE 29 / 30 WATER DRAINAGE OUTFALL TEMPORARY TO BE CONSTRUCTED IN - DRAINAGE STAGE 31 TEMPORARY DRAINAGE ^I BETWEEN 159 AND M4 TO BE ~ REMOVED IN STAGE 31 TEMPORARY DRAINAGE BETWEEN TP126 AND 122 TBM STAR PICKET TO BE REMOVED IN 290852.85~~ N 5822550.23 RL 113.35 STAGE 31 RAIL STATION LAND RETARDING TEMPORARY DRAINAGE BETWEEN 93 AND 115 TO BE REMOVED IN STAGE 31 LYNWOOD DRIVE & OUTLET AT BASE. INSTALL MARINE GRADE PLYWOOD OVER THIS EASTERN OUTLET TO DIVERT FLOW 3150 3152 3155 315 TOWARDS TEMP RB m WARNING TBM STAR PICKET BEWARE OF UNDERGROUND/OVERHEAD SERVICES 290843.01 THE LOCATION OF SERVICES ARE APPROXIMATE ONLY AND THEIR FUTURE STAGE BY OTHERS N 5822465.96 EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS RL 113.24 GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. SPECIAL CONSIDERATION SHOULD BE GIVEN TO CONSTRUCTION PROCEDURES UNDER OVERHEAD ELECTRICITY TRANSMISSION LINES. THORNHILL PARK ESTATE STAGE 30A Wel.Co thornhill spiire **ROAD AND DRAINAGE** PIT NUMBERING AMENDED M.R 19/10/20 **SERVICES PLAN - SHEET 2 OF 2** ISSUED TO COUNCIL M.R 08/10/20 MELTON CITY COUNCIL Designed Checked © Spiire Australia Pty Ltd All Rights Reserved ISSUED FOR TENDER M.R 22/09/20 WEL.CO GROUP This document is produced by Spiire Australia Pty Ltd solely for the ISSUED TO COUNCIL M.R 31/08/20 benefit of and use by the client in accordance with the terms of the 414 LA TROBE STREET PO BOX 16084 MELBOURNE PRELIMINARY 306842CR203 retainer. Spiire Australia Pty Ltd does not and shall not assume any Authorised ISSUED FOR TENDER VICTORIA 8007 AUSTRALIA T 61 3 9993 7888 M.R 10/01/20 responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document. ABN 55 050 029 635 Approved spiire.com.au Rev Amendments



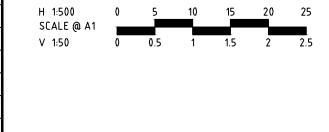
WASHINGTON DRIVE



| | ŀ | | YNWOOD DRIVE | | | | | - | FARGO S | STREET | - | | | | | V H | | HIN)RIV | IGTON /E = |
|---------------------------|---------|---------|-----------------|---------|---------|---------|---------|-----------|---------|---------|--------------|---------|---------|---------|--------------------|---------------|-------------|-------------|---------------|
| | | | | | | | | | | | | | | | | | _ | | |
| VERTICAL GEOMETRY | | | | | | | | | | | | | | | | | | | |
| DESIGN GRADELINE | -3 | 3.33% | 0.79% | | | | | - | -0.50% | | | | | | | _ | <u>-2.7</u> | 1% 3 | 8.33% |
| DATUM RL 113.0 | | | | | | | | | | | | | | | | | _ | | |
| DESIGN CENTRELINE | 116.079 | 115.979 | 116.047 | 116.005 | 115.955 | 115.905 | 115.809 | 115.805 | 115.750 | 115.705 | 115.691 | 115.605 | 115.587 | 115.546 | 115.536 | 115.506 | 115.502 | 115.306 | 115.412 |
| LEFT DESIGN LIP OF KERB | | | 115.933 | 115.898 | 115.848 | 115.798 | 115.702 | 115.698 | 115.643 | | 115.584 | 115.498 | 115.481 | 115.439 | 115.430 | | | | |
| RIGHT DESIGN LIP OF KERB | | | 115.933 | 115.898 | 115.848 | 115.798 | 115.702 | 115.698 | 115.643 | 115.598 | 175.584 | 115.498 | 115.481 | 115.439 | 115.430 | | | | |
| EX SURFACE LEFT BOUNDARY | | | 116.002 | 116.010 | 115.999 | 116.004 | 115,963 | | | | 115.860 | 115.763 | 115.737 | 115.677 | 115.665 115.646 | 115.629 | 115.629 | | |
| EX SURFACE RIGHT BOUNDARY | | | 116.145 | 116.128 | 116.087 | | | 115.953 | 115.920 | 115.883 | 115.872 | 115.776 | 115.725 | | 115.646 | | | | |
| CHAINAGE | 0.00.0 | 3.000 | 11.599 | 20.000 | 30.000 | 000'07 | 59.200 | 000.09 | 71.000 | 80.000 | 82.800 | 100.000 | 103.500 | 111.796 | 113.715 | 119.885 | 120.000 | 127.254 | 130.454 |

ALDRICH STREET DAWSON STREET

| \AC/ | | | | | Scale |
|--------------|-----|-------------------|----------|----------|-------|
| | | | | | |
| 3068427Civil | | | | | |
| 068 | | | | | |
| 30/3 | D | ISSUED TO COUNCIL | M.R | 08/10/20 | |
| اق | С | ISSUED FOR TENDER | M.R | 22/09/20 | |
| ocation | В | ISSUED TO COUNCIL | M.R | 31/08/20 | |
| loca | Α | ISSUED FOR TENDER | M.R | 10/01/20 | |
| file | Rev | Amendments | Approved | Date | |





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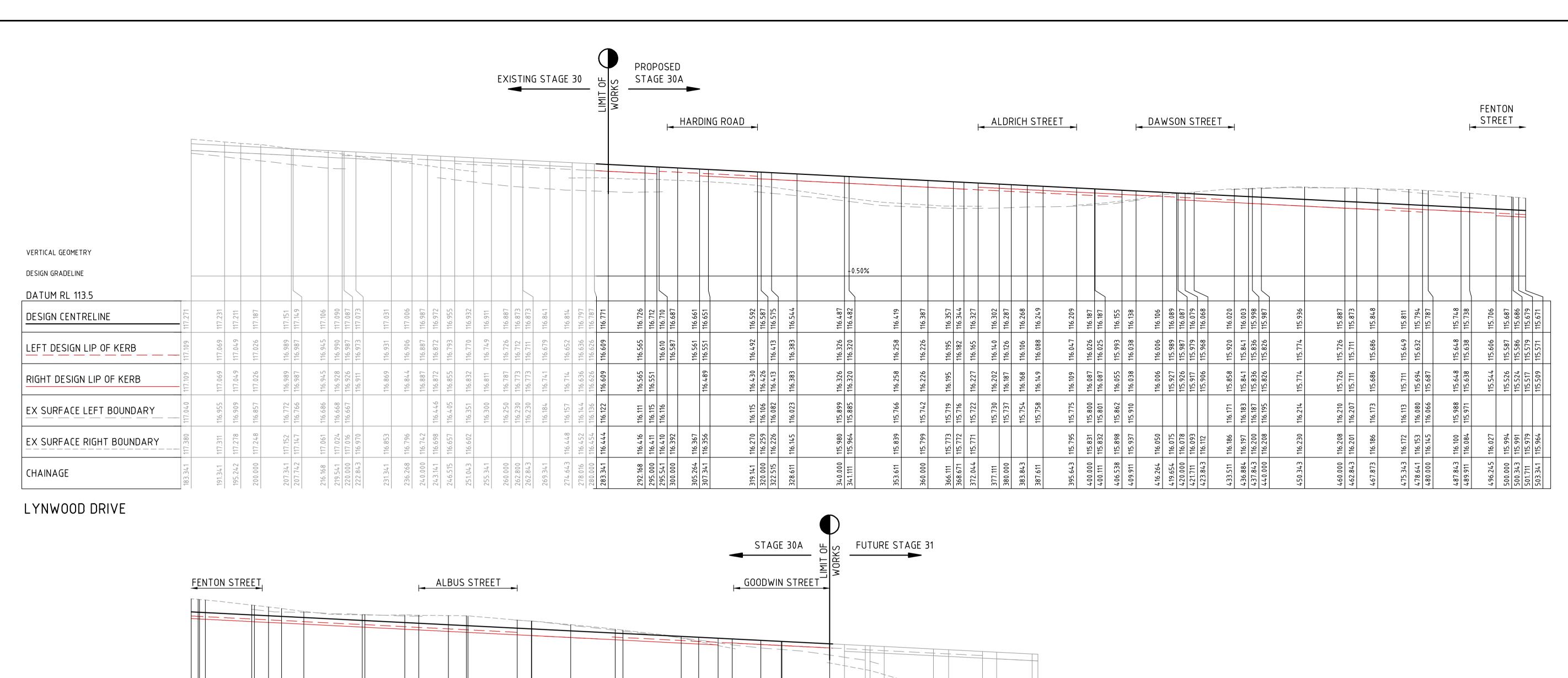
ABN 55 050 029 635

| | thornhill |
|---|-----------|
| - | Designed |

Authorised

Wel.Co Checked

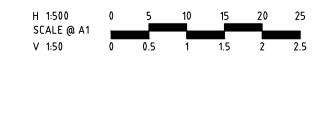
THORNHILL PARK ESTATE STAGE 30A **ROAD AND DRAINAGE ROAD LONGITUDINAL SECTIONS - SHEET 1 OF 3** MELTON CITY COUNCIL WEL.CO GROUP



| | FFNTON | CTDEET | | AL DUG CT | DEST. | | | STAGE 3 | WORK | STAGE 31 | |
|-----------------------------------|--|---|-------------------------|--|--|---------|--|-------------------------------|---|--|---------|
| | FENTON S | SIREE | | ALBUS ST | REE I → | | | GOODWIN S | IREE I - | | |
| VERTICAL GEOMETRY | | | | | | | | | | | |
| DESIGN GRADELINE | | | | | | -0.50% | | | | | |
| DATUM RL 111.0 DESIGN CENTRELINE | 115.696 115.687 115.686 115.679 | 115.623 115.620 115.603 115.587 | 115.4.91 | 115.423 | 115.305 | 115.187 | 115.108 115.087 115.064 115.047 | | 114.930 114.912 114.887 114.865 | 114.806 | 114.687 |
| LEFT DESIGN LIP OF KERB | 115.596 115.587 115.586 115.579 | 115.523 115.520 115.503 115.487 115.461 | 115.391 | 115.323 115.287 115.266 115.264 | 115.205 115.126 115.126 | 115.087 | 115.008 114.987 114.964 | 114.913 | 114.830 114.812 114.787 114.787 114.765 | 114.706 114.687 114.647 114.568 | 114.526 |
| RIGHT DESIGN LIP OF KERB | 115.534 115.526 115.524 115.517 | 115.461 115.458 115.441 115.426 115.399 | 115.329 | 115.261 115.226 115.204 115.202 | 115.14.3 115.126 115.126 | 115.026 | 114.946 114.926 114.902 114.947 | 114.913 114.888 114.887 | 114.830 114.751 114.726 114.720 114.703 | 114.644 114.626 114.585 114.568 | 114.526 |
| EX SURFACE LEFT BOUNDARY | - | 115.758 115.750 115.712 115.692 115.680 | 115.632 115.630 115.595 | 115.589 | 115.493 115.474 115.474 115.474 | 115.255 | 115.071 115.021 114.954 114.905 | 114.829 114.793 114.792 | 114.659 114.607 114.538 114.508 | | 113.498 |
| EX SURFACE RIGHT BOUNDARY | 116.009 115.994 115.991 115.979 | 115.858 115.850 115.811 115.775 115.705 | 115.622 | 115.612 115.606 115.602 115.599 | 115.499 115.472 115.471 115.388 | | 115.065 114.982 114.888 114.821 | | 114.469 114.403 114.289 114.192 | 113.844 113.751 113.550 113.466 | 113.340 |
| CHAINAGE | 498.341 500.000 500.343 501.711 | 512.843 513.511 516.884 520.000 525.343 | 539.343 | 552.911 560.000 564.343 564.711 | 576.511 579.884 580.000 | 000 | 615.843 620.000 624.661 628.043 | 634.917 639.843 640.000 | 651.425 655.017 660.000 661.162 664.535 | 676.335 680.000 688.135 691.508 | 700.000 |

LYNWOOD DRIVE

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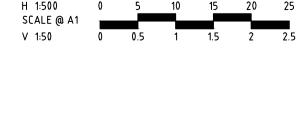
Date

THORNHILL PARK ESTATE STAGE 30A **ROAD AND DRAINAGE ROAD LONGITUDINAL SECTIONS - SHEET 2 OF 3** MELTON CITY COUNCIL WEL.CO GROUP

CHAINAGE

FARGO STREET

문발 Rev | Amendments Approved Date





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STAGE 30A

LYNWOOD

DRIVE

-B.33% 2.49% <u></u>

FUTURE STAGE 31

0.50%

THORNHILL PARK ESTATE STAGE 30A **ROAD AND DRAINAGE ROAD LONGITUDINAL SECTIONS - SHEET 3 OF 3** MELTON CITY COUNCIL

WEL.CO GROUP

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VERTICAL GEOMETRY

DATUM RL 112.0

DESIGN CENTRELINE

LEFT DESIGN LIP OF KERB

RIGHT DESIGN LIP OF KERB

EX SURFACE LEFT BOUNDARY

EX SURFACE RIGHT BOUNDARY

GOODWIN STREET

DESIGN GRADELINE

CHAINAGE

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PRELIMINARY 306842CR302 D

VERTICAL GEOMETRY -2.61%_ 3.33% 3.33% 2.51% DESIGN GRADELINE DATUM RL 113.5 DESIGN CENTRELINE LEFT DESIGN LIP OF KERB .300 .303 .302 RIGHT DESIGN LIP OF KERB EX SURFACE LEFT BOUNDARY 115.948 EX SURFACE RIGHT BOUNDARY

HARDING DAWSON STREET

HARDING ROAD

LYNWOOD

DRIVE

VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 113.0

DESIGN CENTRELINE

LEFT DESIGN LIP OF KERB 116. 100.083 115.923 RIGHT DESIGN LIP OF KERB 116. 115.461 115.459 115.447 EX SURFACE LEFT BOUNDARY EX SURFACE RIGHT BOUNDARY 59.200 CHAINAGE

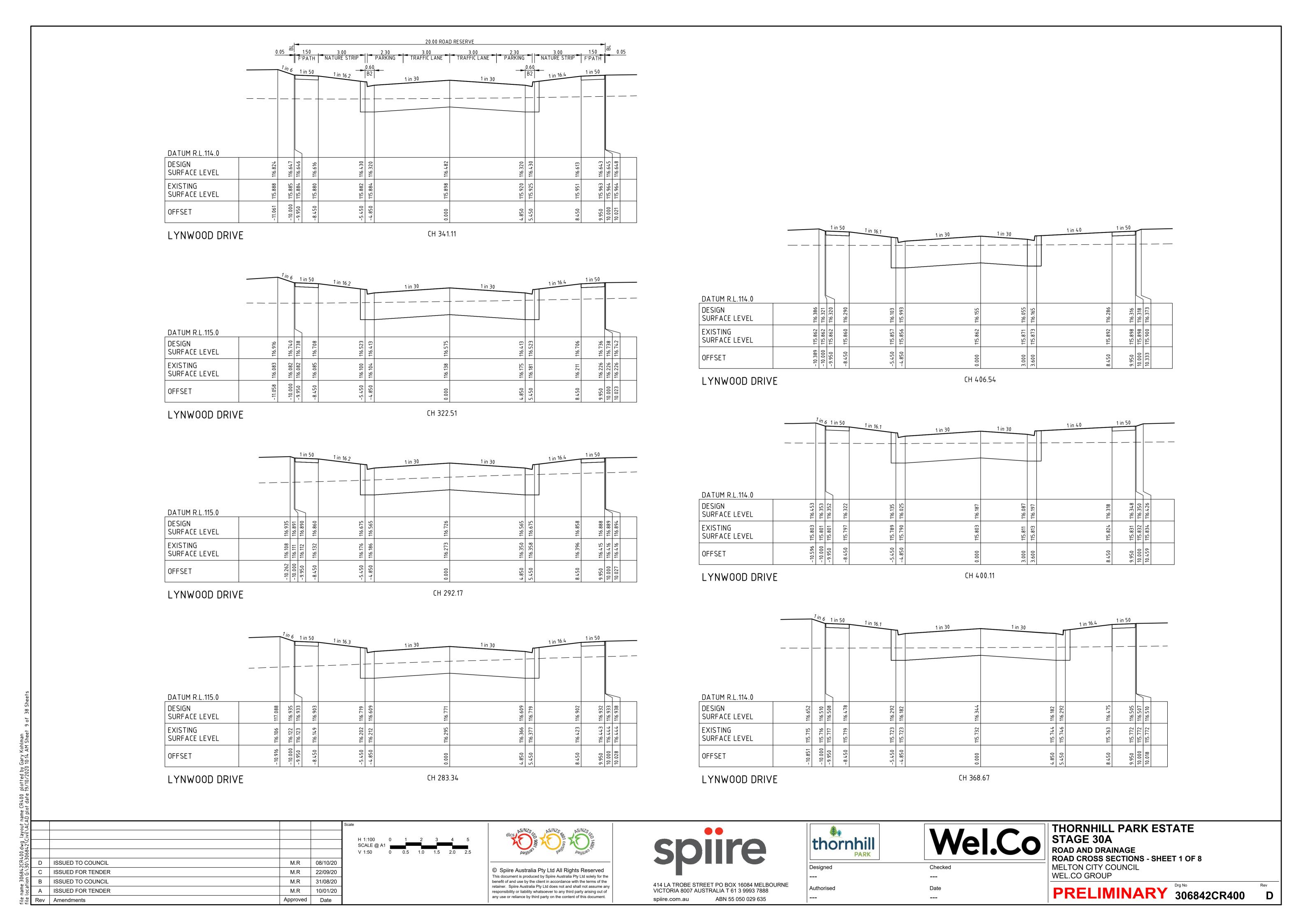
-2.70% 3.33% -0,62% 115.923 100

-3.33% 0.11%

FARGO STREET

DRIVE

WASHINGTON





M.R 08/10/20 D ISSUED TO COUNCIL M.R ISSUED FOR TENDER 22/09/20 ISSUED TO COUNCIL M.R 31/08/20 A ISSUED FOR TENDER M.R 10/01/20 Approved Date Rev Amendments

DATUM R.L.113.0

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SURFACE LEVEL

DATUM R.L.113.0

SURFACE LEVEL

SURFACE LEVEL

DATUM R.L.113.0

SURFACE LEVEL

SURFACE LEVEL

LYNWOOD DRIVE

DESIGN

EXISTING

OFFSET

LYNWOOD DRIVE

DESIGN

EXISTING

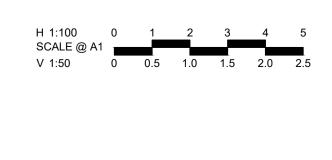
OFFSET

LYNWOOD DRIVE

DESIGN

EXISTING

OFFSET



CH 579.88

20.00 ROAD RESERVE

CH 624.66

CH 601.84

1 in 38.5

115.430 115.346 115.344

115.23*4* 115.233 115.233

115.553 115.457 115.456

-10.577 -10.000 -9.950

1 in 30









THORNHILL PARK ESTATE STAGE 30A ROAD AND DRAINAGE
ROAD CROSS SECTIONS - SHEET 3 OF 8
MELTON CITY COUNCIL
WEL.CO GROUP

115.475

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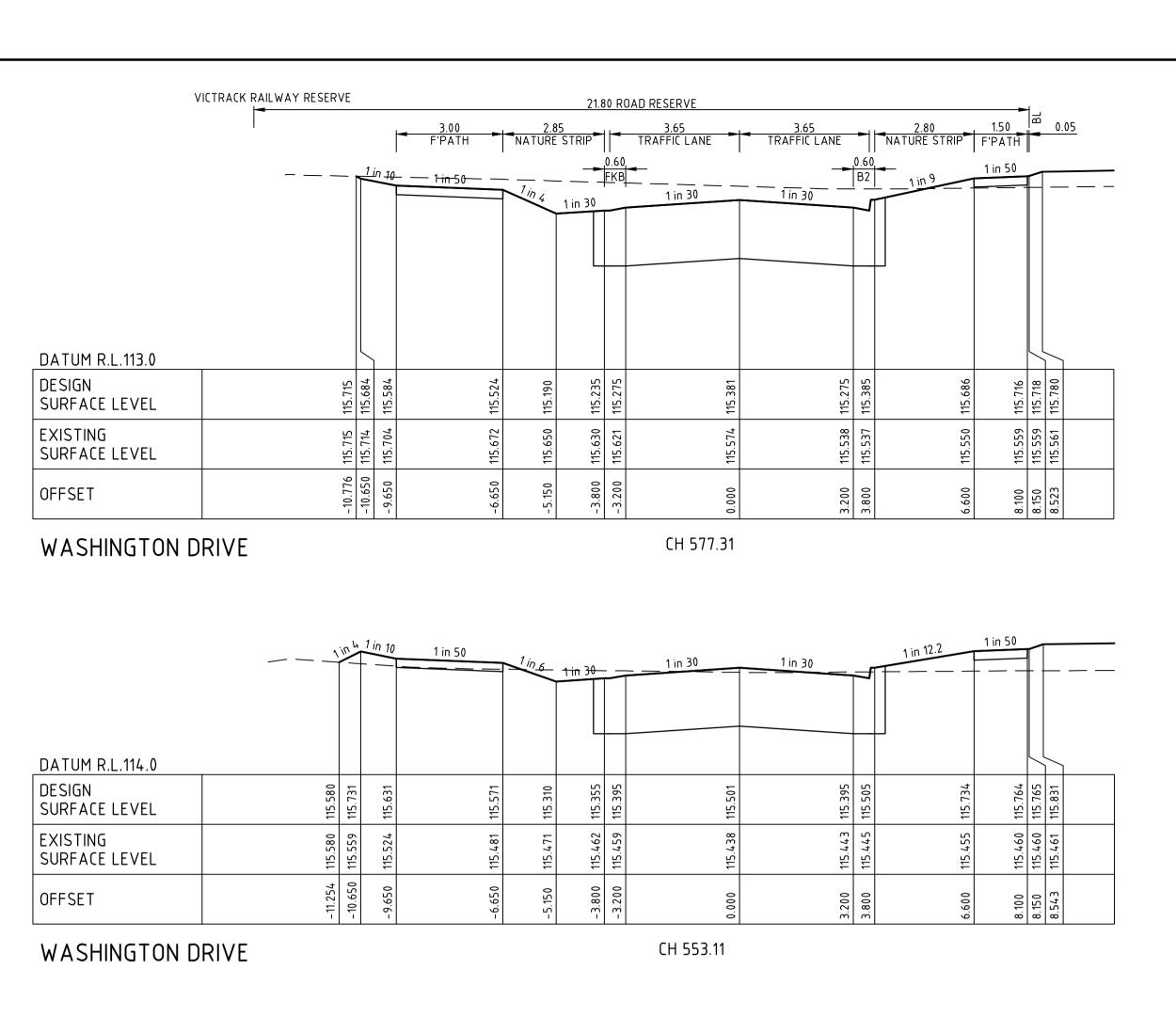
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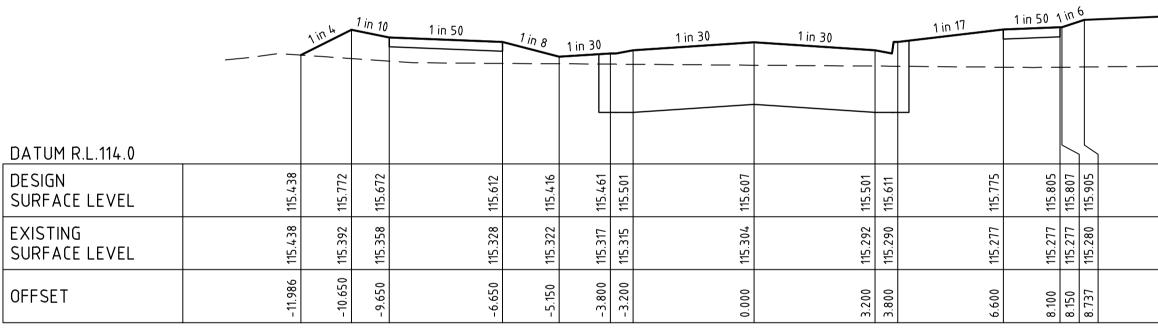
115.339 115.341 115.392

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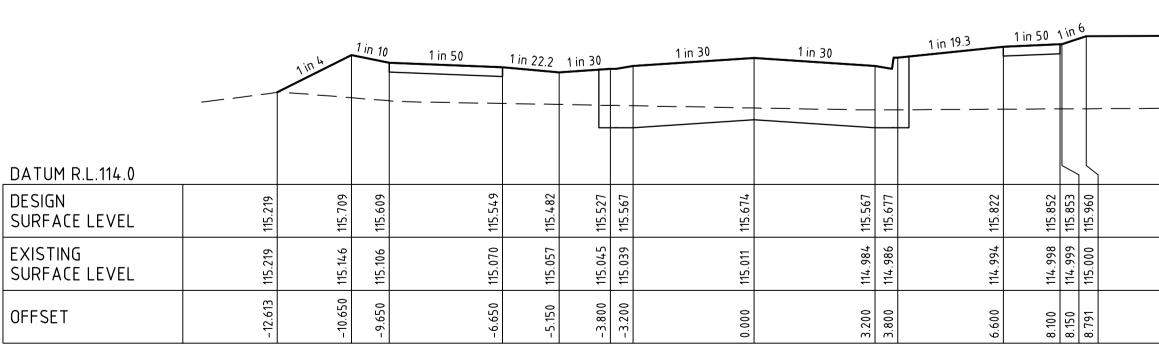
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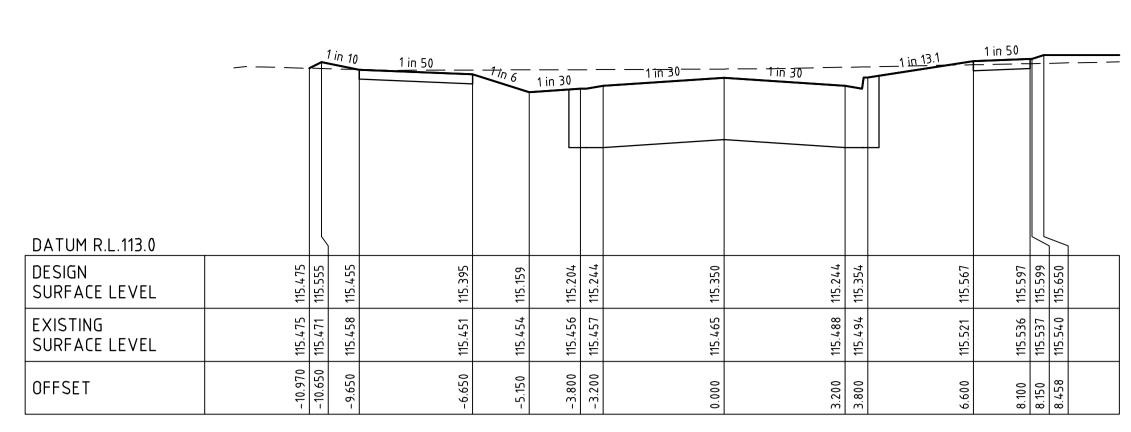




WASHINGTON DRIVE CH 531.92

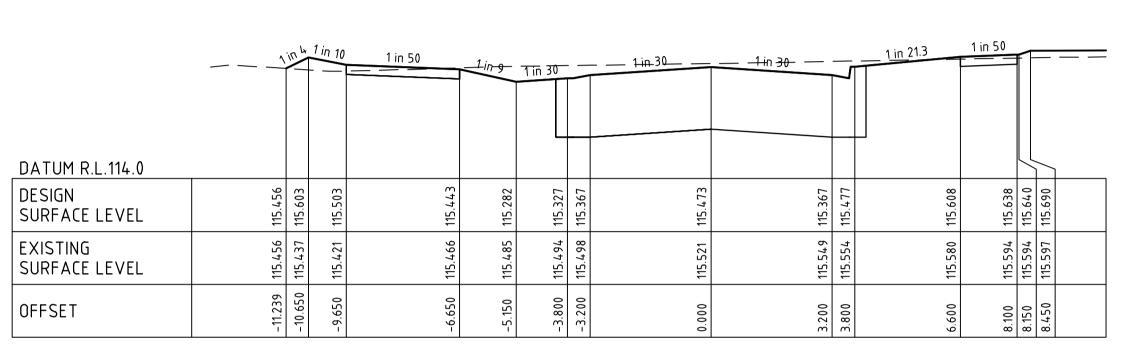


WASHINGTON DRIVE CH 508.32



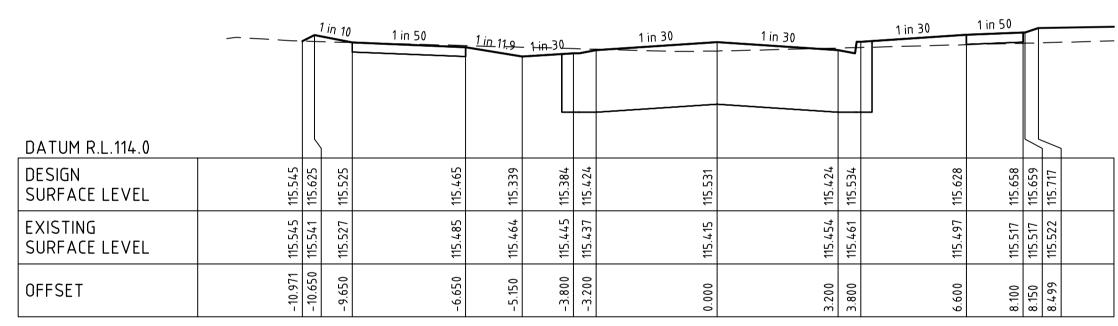
WASHINGTON DRIVE

CH 643.30



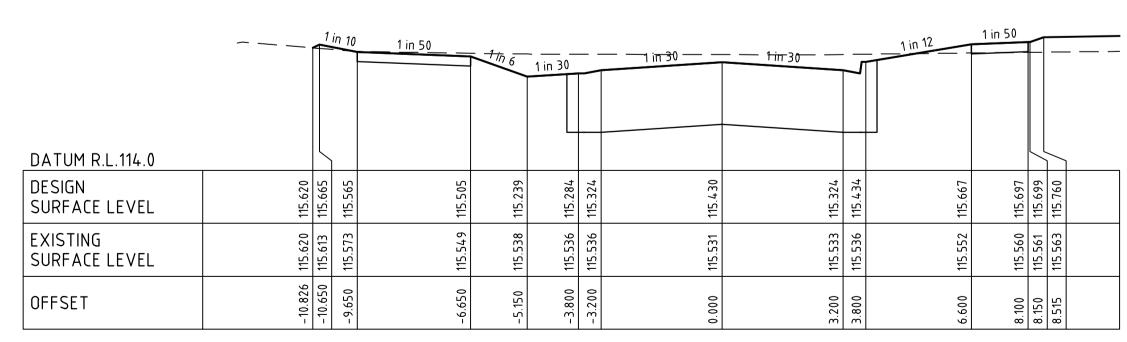
WASHINGTON DRIVE

CH 618.70



WASHINGTON DRIVE

CH 607.22

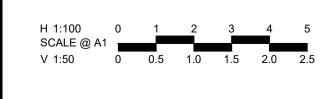


WASHINGTON DRIVE

ABN 55 050 029 635

CH 587.08

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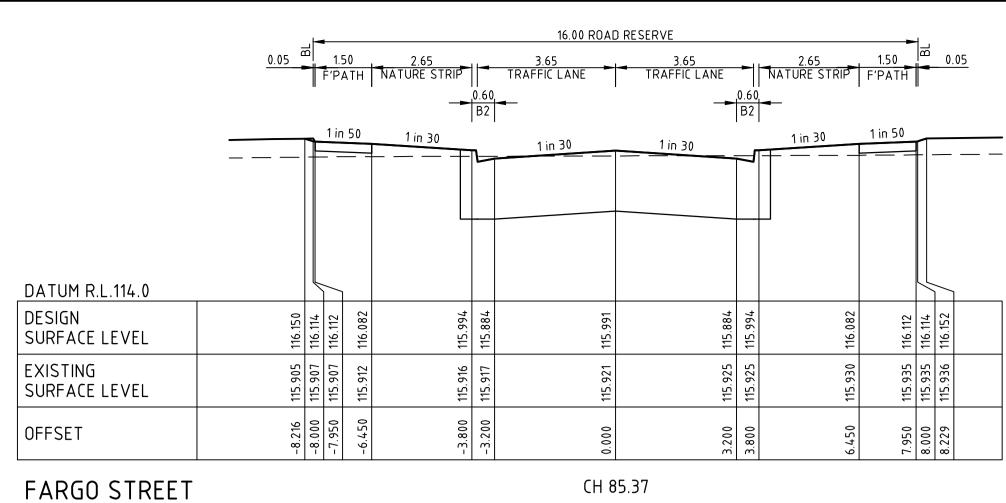
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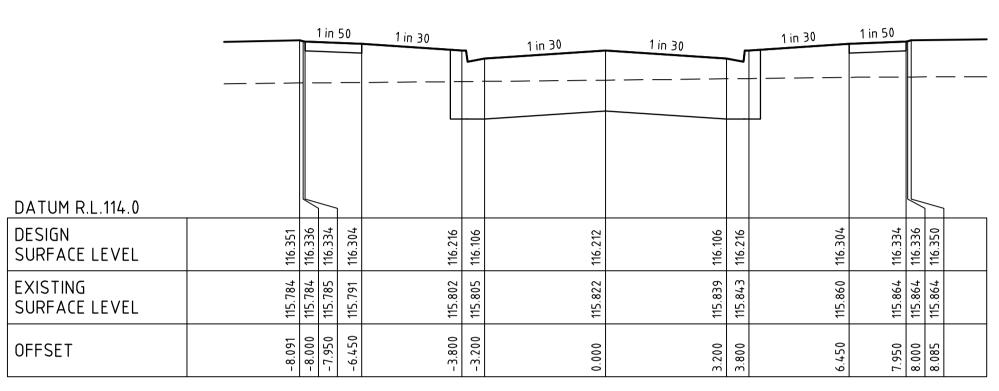
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THORNHILL PARK ESTATE
STAGE 30A
ROAD AND DRAINAGE
ROAD CROSS SECTIONS - SHEET 4 OF 8
MELTON CITY COUNCIL

WEL.CO GROUP





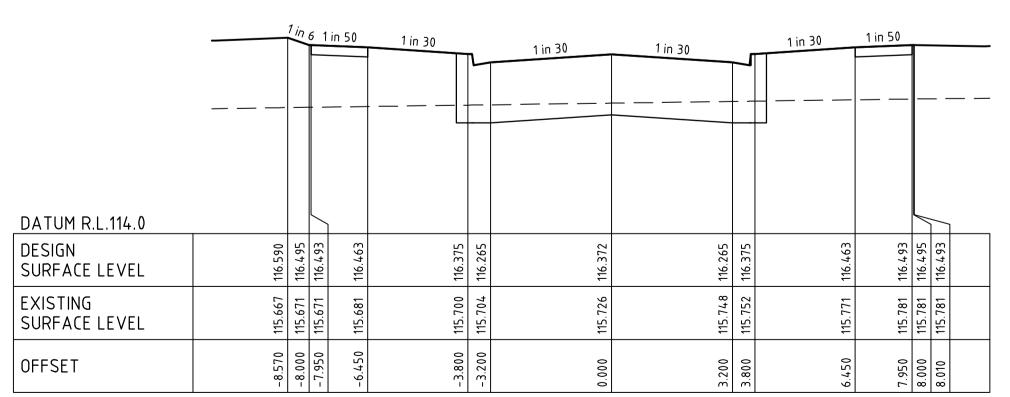
FARGO STREET

CH 54.37

| | | 1 in | 50 | 1 in 30 | <u>_</u> | 1 in 30 | 1 in 30 | | 1 in 30 | 1 in 50 | | |
|---------------------------|---------|--------------------|---------|---------|----------|---------|---------|---------|---------|---------|---------|--|
| DATUM R.L.115.0 | | _ | | | | | | | | | | |
| DESIGN SURFACE LEVEL | 116.539 | 116.532 116.530 | 116.500 | 116.412 | 116.302 | 116.409 | 116.302 | 116.412 | 116.500 | 116.530 | 116.532 | |
| EXISTING SURFACE LEVEL | 115.710 | 115.711 | 115.722 | 115.742 | 115.747 | 115.771 | 115.796 | 115.801 | 115.819 | 115.828 | 115.828 | |
| OFFSET | -8.042 | -8.000 | -6.450 | -3.800 | -3.200 | 0.000 | 3.200 | 3.800 | 6.450 | 7.950 | 8.000 | |

FARGO STREET

CH 24.00



FARGO STREET

CH 11.80

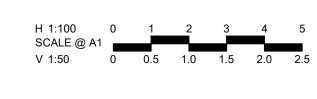
| | | 1 | in 50 | 1 in 30 | | <u>-</u> | - <u>1 in 30</u> — | <u>— — 1-in-30</u> | | <u>1 in</u> 30 | 1 in 50 | | _ | |
|---------------------------------------|---------|------------|---------------|---------|---------|--------------|--------------------|--------------------|------------------|----------------|---------|---------|------------|--|
| DATUM R.L.114.0 DESIGN SURFACE LEVEL | 116.028 | 115.991 | 989 | | 115.871 | 2.761 | 115.867 | | 5.871 | 115.959 | 115.989 | 115.991 | 116.031 | |
| EXISTING SURFACE LEVEL | | 115.872 11 | _ | | | 115.895 115. | 115.913 | | .cli 15.934 115. | 115.947 | 115.951 | 1 | 115.952 11 | |
| OFFSET | -8.225 | -8.000 | $\overline{}$ | | -3.800 | -3.200 | 0.000 | | 3.800 | 0.450 | 7.950 | | 8.243 | |

FARGO STREET

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CH 102.57

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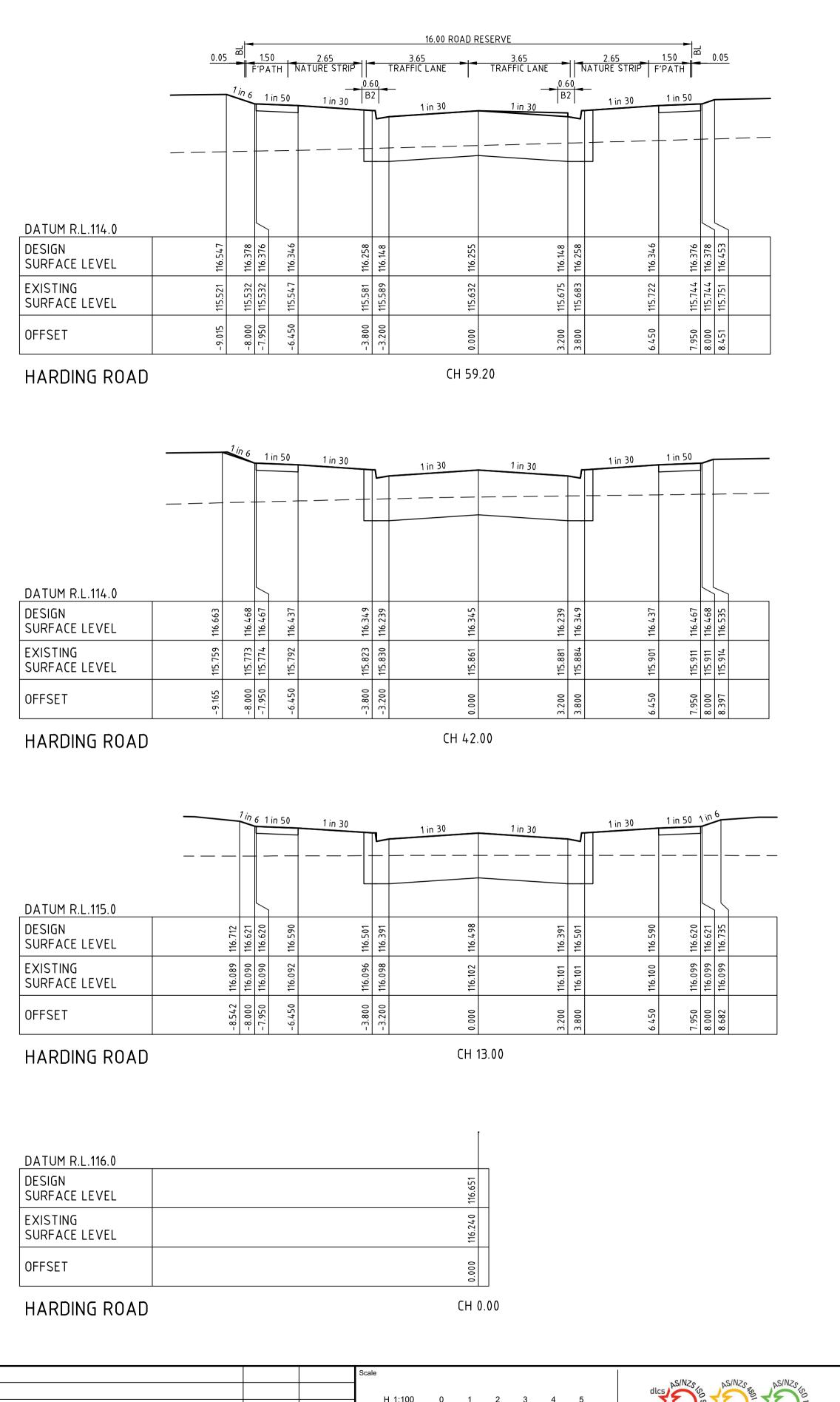


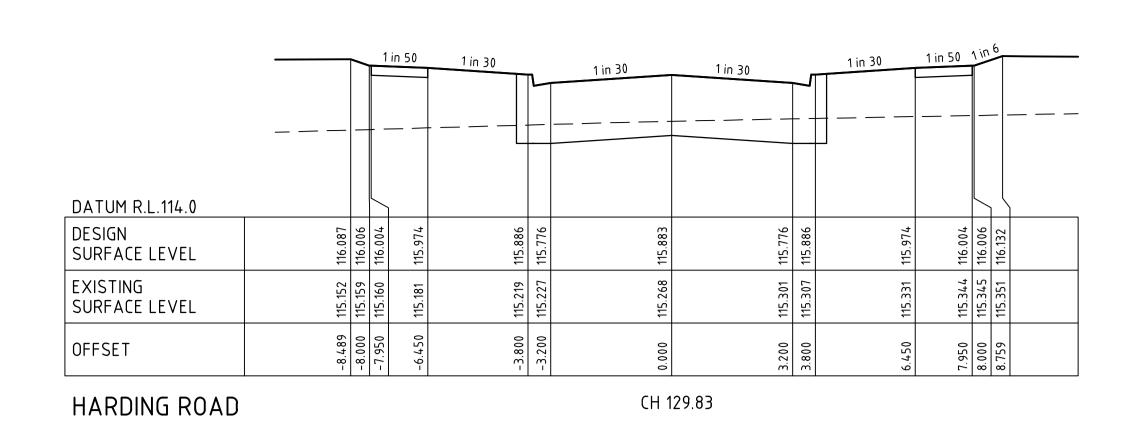
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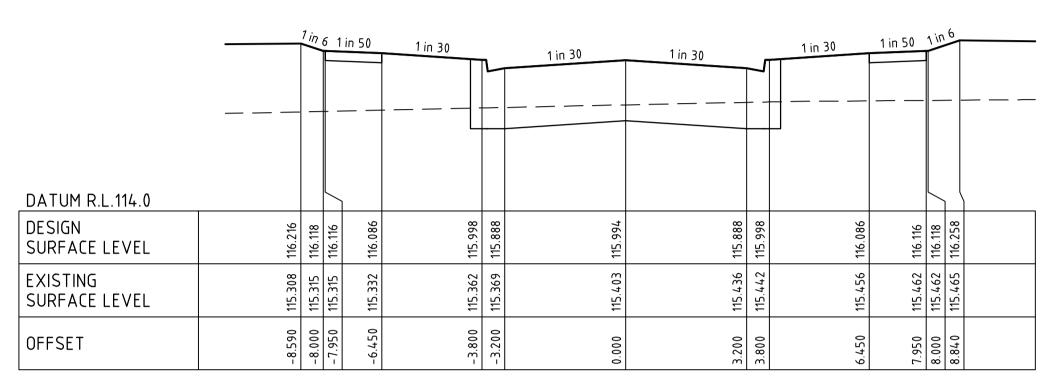
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THORNHILL PARK ESTATE STAGE 30A ROAD AND DRAINAGE
ROAD CROSS SECTIONS - SHEET 5 OF 8
MELTON CITY COUNCIL
WEL.CO GROUP

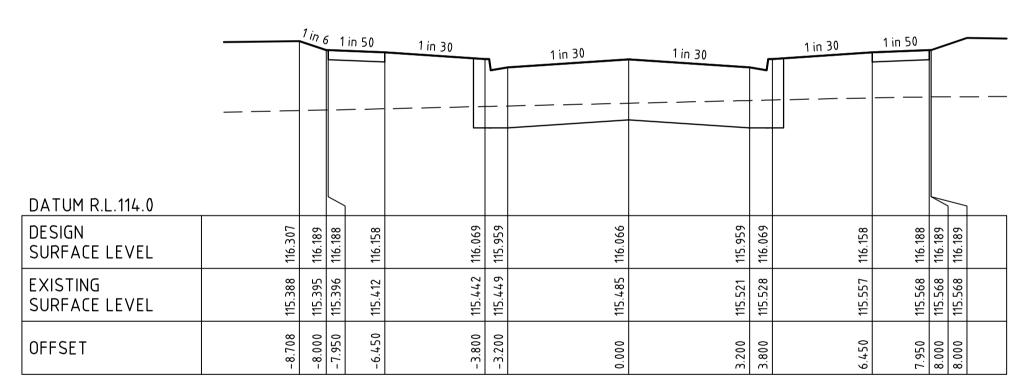






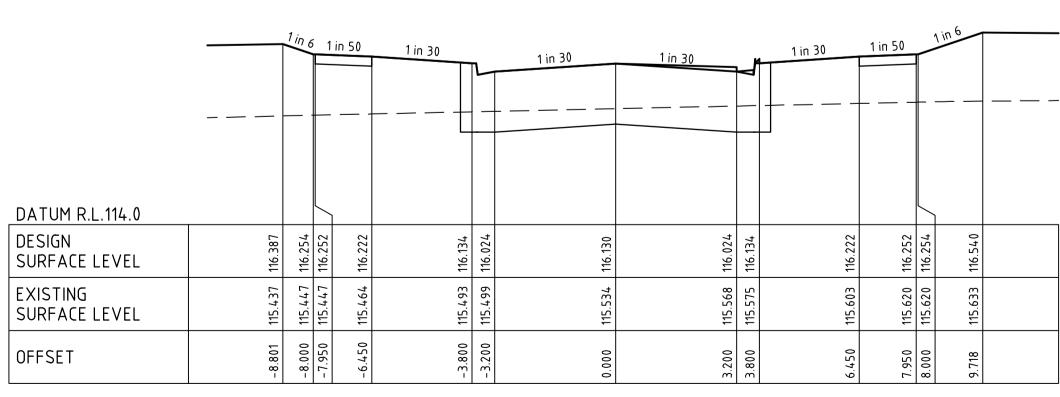
HARDING ROAD

CH 108.63



HARDING ROAD

CH 95.00

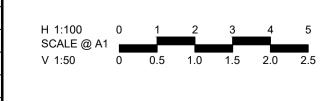


HARDING ROAD

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CH 82.80

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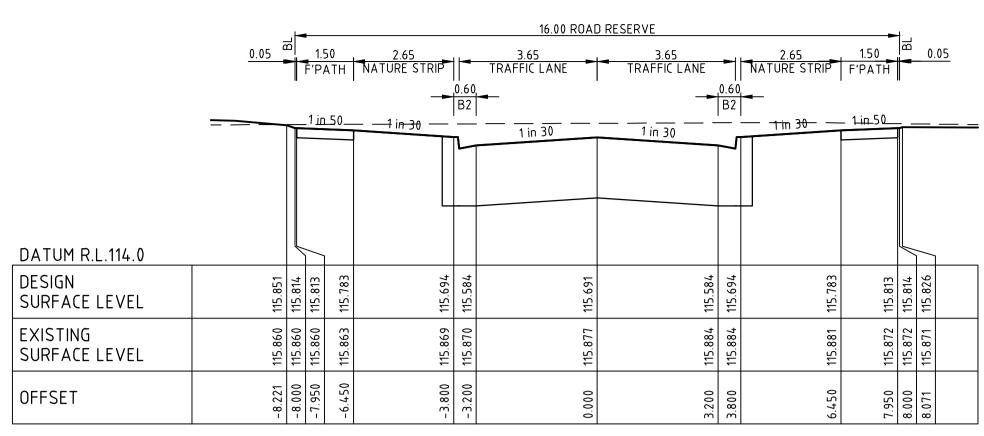
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THORNHILL PARK ESTATE
STAGE 30A
ROAD AND DRAINAGE
ROAD CROSS SECTIONS - SHEET 6 OF 8
MELTON CITY COUNCIL

MELTON CITY COUNC WEL.CO GROUP

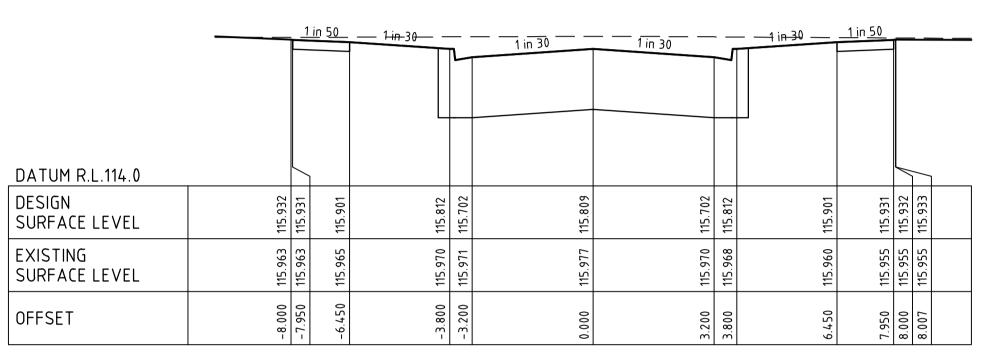
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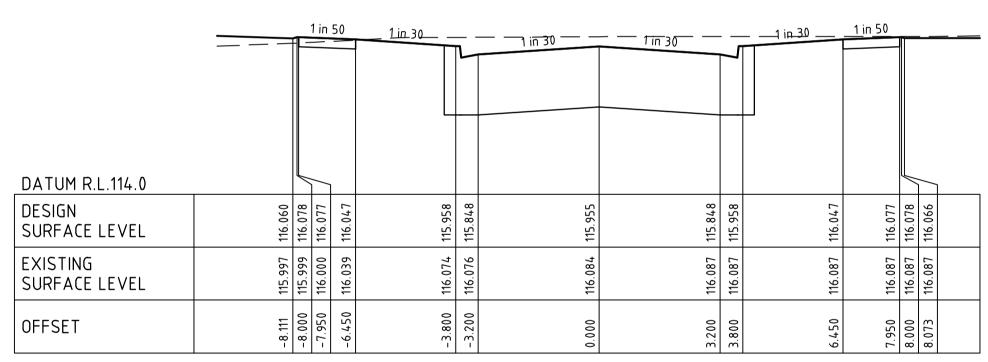
DAWSON STREET

CH 82.80



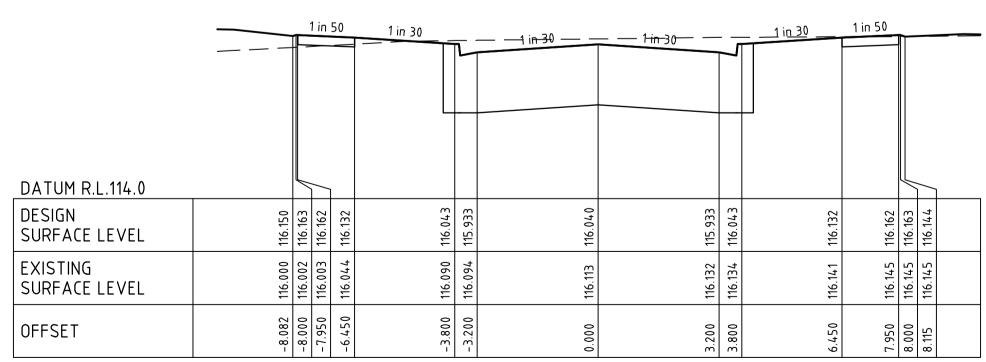
DAWSON STREET

CH 59.20



DAWSON STREET

CH 30.00



DAWSON STREET

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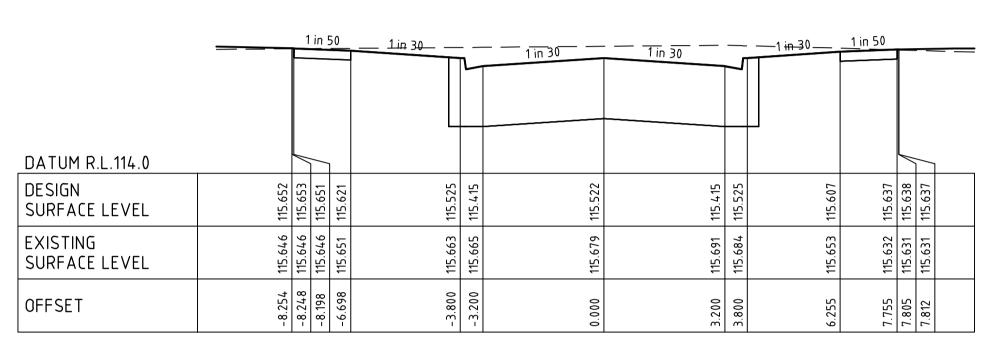
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CH 13.00



DAWSON STREET

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| DESIGN SURFACE LEVEL | 115.699 | 715.669 115.668 | 115.638 | 115.549 | 115.439 | 115.546 | 115.439 | 115.549 | 115.638 | 115.668 | 115.669 | 115.694 | |
| EXISTING SURFACE LEVEL | 115.677 | 115.677 | 115.682 | 115.691 | 115.693 | 115.705 | 115.718 | 115.721 | 115.683 | 115.660 | 115.659 | 115.657 | |
| OFFSET | -8.176 | -8.000 | -6.450 | -3.800 | -3.200 | 0.000 | 3.200 | 3.800 | 6.450 | 7.950 | 8.000 | 8.14.9 | |

DAWSON STREET

CH 111.80

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|---------------------------|---------|--------------------|------------------|---------|---------|---------|---------|--------------|----------------|---------|---------|--|
| DATUM R.L.114.0 | | | | | | | | | | | | |
| DESIGN SURFACE LEVEL | 115.741 | 115.709 | 115.591 | 115.481 | 115.587 | 115.481 | 115.591 | 115.679 | 115.709 | 115.711 | 115.732 | |
| EXISTING SURFACE LEVEL | 115.736 | 115.737 | 115.754 | 115.757 | 115.770 | 115.784 | 115.786 | 115.749 | 115.726 | 115.725 | 115.723 | |
| OFFSET | -8.181 | -7.950 | -3.800 | -3.200 | 0.000 | 3.200 | 3.800 | 6.450 | 7.950 | 8.000 | 8.127 | |

DAWSON STREET

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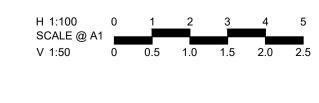
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22/09/20

31/08/20

10/01/20

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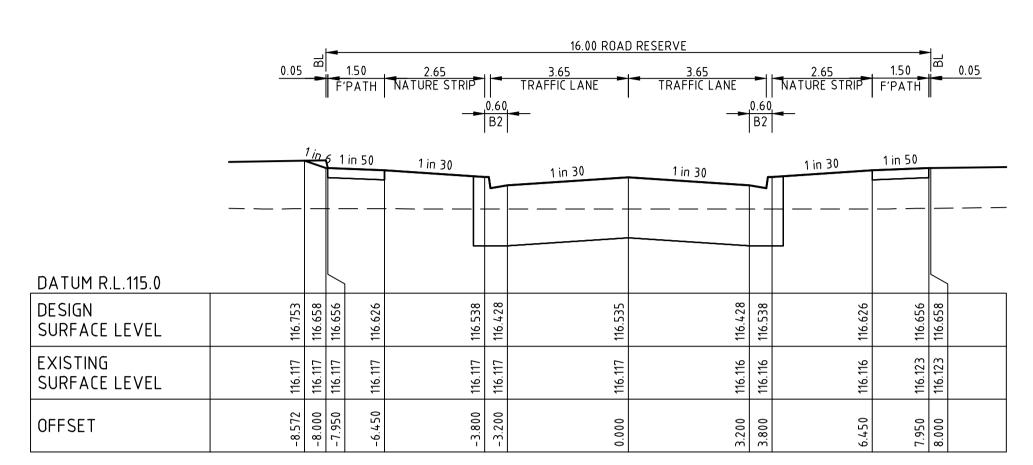
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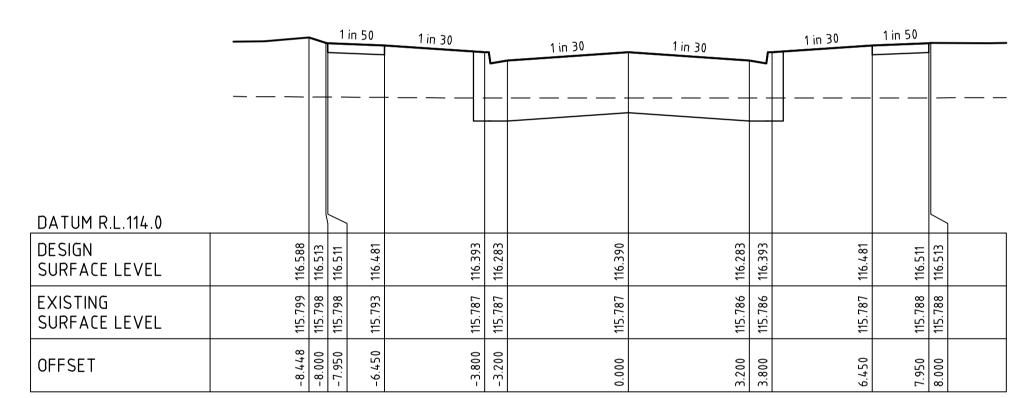
THORNHILL PARK ESTATE STAGE 30A ROAD AND DRAINAGE ROAD CROSS SECTIONS - SHEET 7 OF 8 MELTON CITY COUNCIL

WEL.CO GROUP

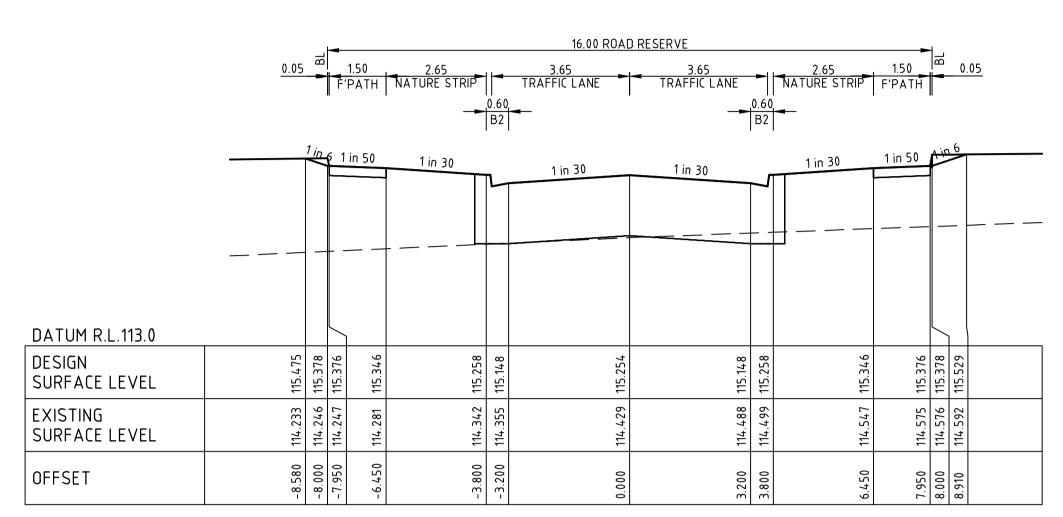


ALDRICH STREET

CH 42.00

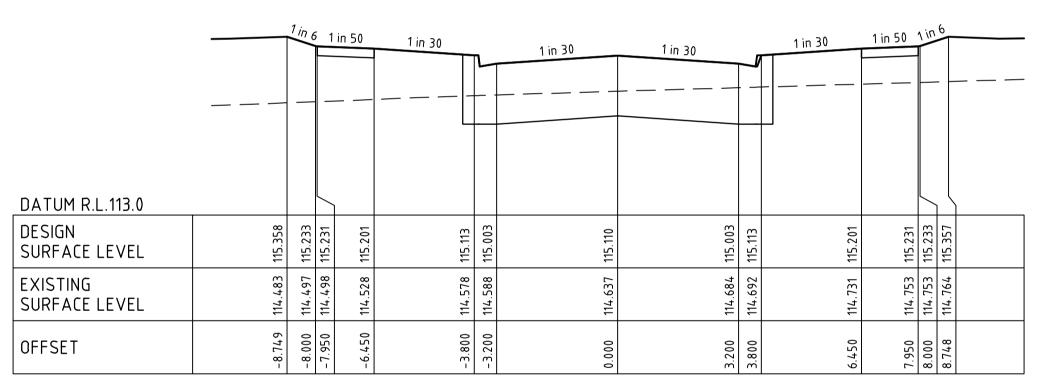


ALDRICH STREET CH 13.00



GOODWIN STREET

CH 42.00



GOODWIN STREET

CH 13.00

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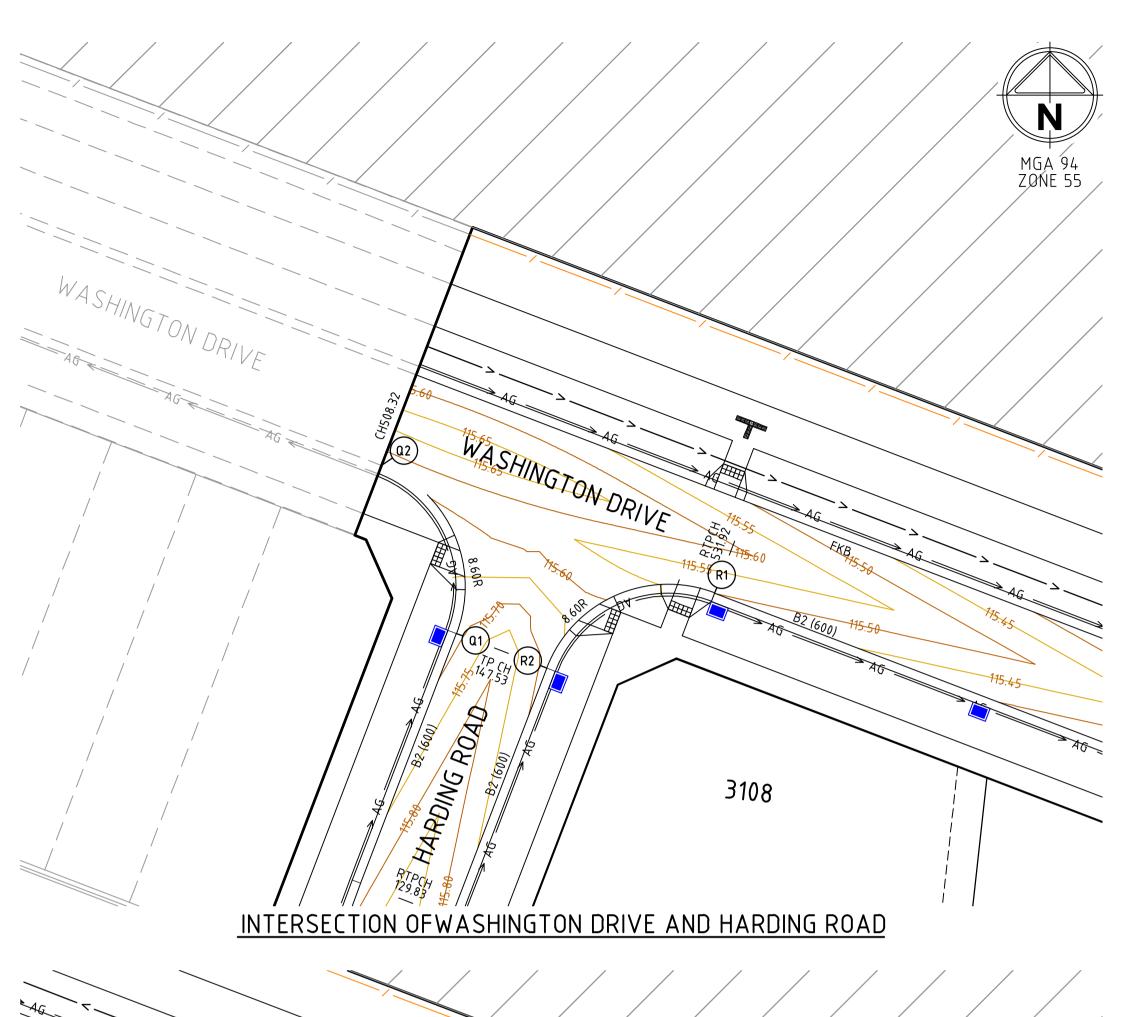
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| the | PARK |
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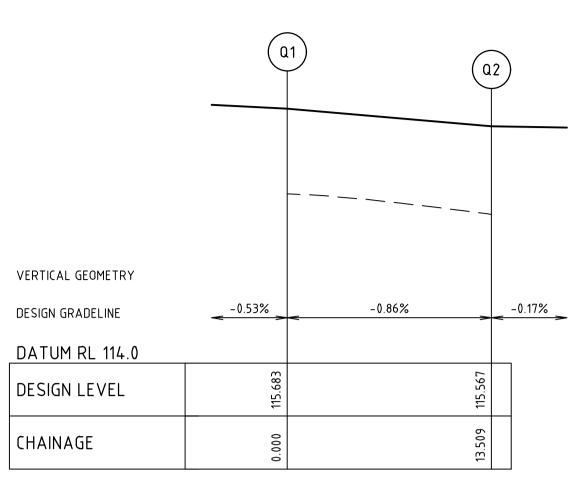
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THORNHILL PARK ESTATE
STAGE 30A
ROAD AND DRAINAGE
ROAD CROSS SECTIONS - SHEET 8 OF 8
MELTON CITY COUNCIL
WELL CO GROUP

WEL.CO GROUP

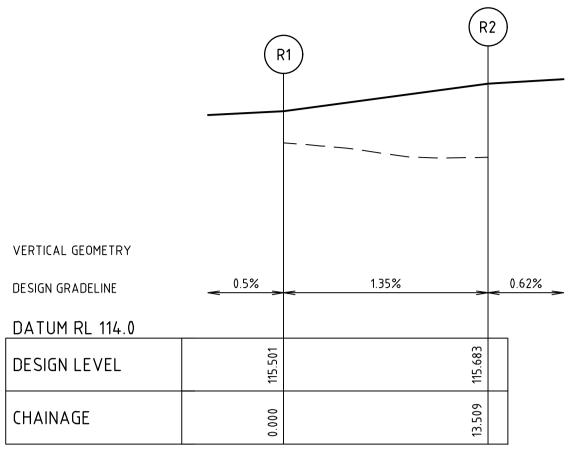




ALIGNMENT Q

ALIGNMENT Q

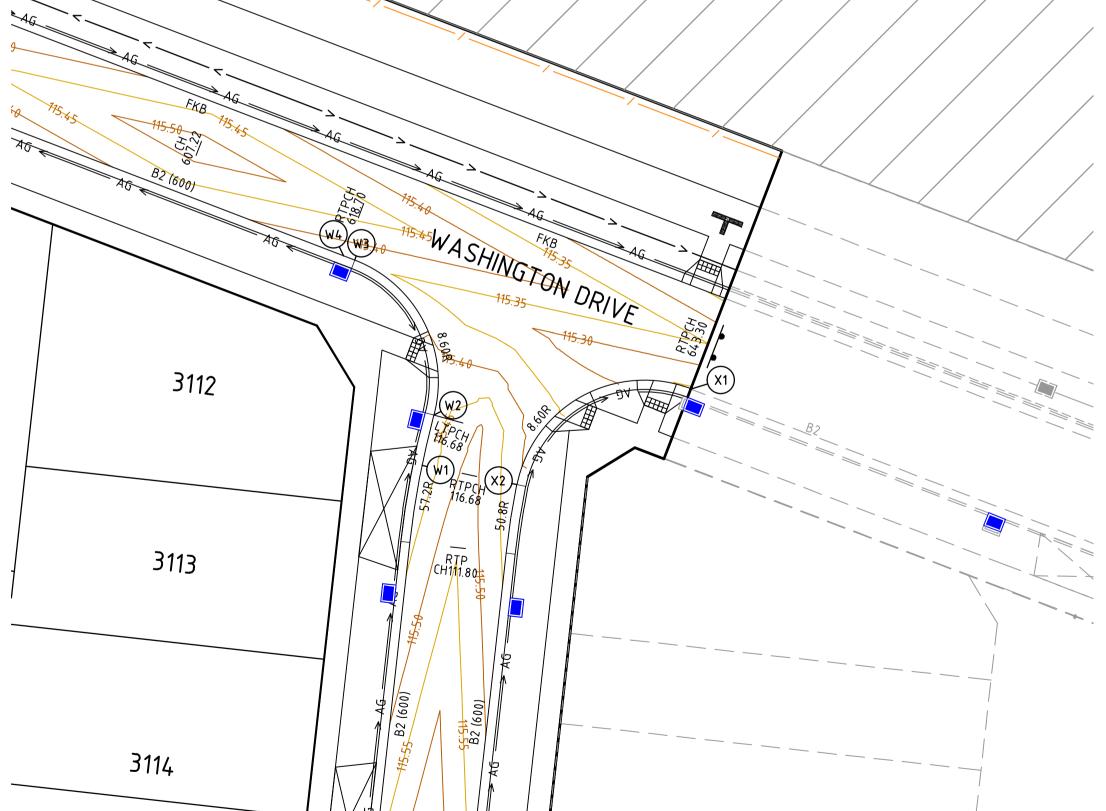
| POINT Q1 1/4 1/2 3/4 Q2 | NO EASTING 290416.096 290416.663 290415.922 290413.984 290411.145 | 5 8 2 2 7 0 5 . 5 7 5 5 8 2 2 7 0 8 . 8 4 8 | 115.596 | |
|--|---|--|---------|-------------|
| C U R V E | RADIUS ARC | | MID 0RD | Q T R O R D |
| Q 1 – Q 2 | 8.600 13. | | 2.519 | - 0 . 6 5 5 |



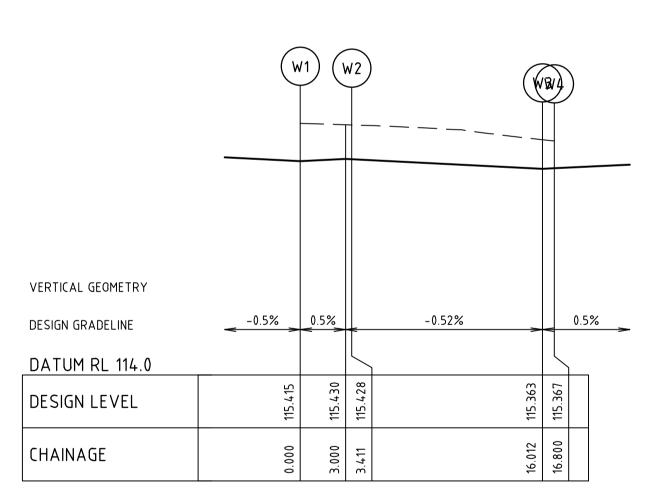
ALIGNMENT R

ALIGNMENT R

| POINT | NO EASTING | NORTHING | RL | |
|-----------|------------|-------------|---------|---------|
| R 1 | 290433.181 | 5822704.928 | 115.501 | |
| 1 / 4 | 290429.874 | 5822705.495 | 115.546 | |
| 1 / 2 | 290426.601 | 5822704.753 | 115.592 | |
| 3 / 4 | 290423.862 | 5822702.815 | 115.637 | |
| R 2 | 290422.072 | 5822699.977 | 115.683 | |
| | | | | |
| | | | | |
| CURVE | RADIUS ARC | L CHORD | MID ORD | QTR ORD |
| R 1 – R 2 | 8.600 13. | 509 12.162 | 2.519 | -0.655 |



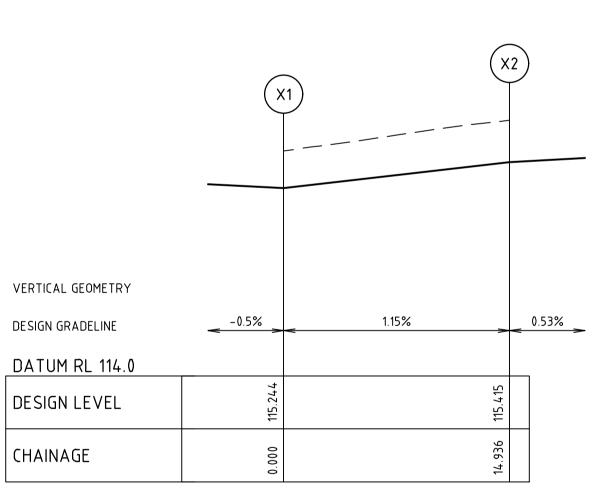
INTERSECTION OF WASHINGTON DRIVE AND DAWSON STREET



ALIGNMENT W

ALIGNMENT W

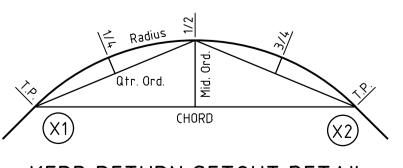
| POINT | NO EASTING | NORTHING | R L | |
|-----------|------------|-------------|---------|-------------|
| W 1 | 290519.396 | 5822660.012 | 115.415 | |
| 1 / 4 | 290519.572 | 5822660.846 | 115.419 | |
| 1 / 2 | 290519.761 | 5822661.678 | 115.423 | |
| 3 / 4 | 290519.963 | 5822662.506 | 115.428 | |
| W 2 | 290520.176 | 5822663.332 | 115.428 | |
| 1 / 4 | 290520.418 | 5822666.455 | 115.412 | |
| 1 / 2 | 290519.526 | 5822669.458 | 115.395 | |
| 3 / 4 | 290517.617 | 5822671.942 | 115.379 | |
| W 3 | 290514.945 | 5822673.578 | 115.363 | |
| W 4 | 290514.210 | 5822673.860 | 115.367 | |
| | | | | |
| | | | | |
| CURVE | RADIUS ARC | L CHORD | MID ORD | QTR ORD |
| W 1 – W 2 | 57.200 3. | 411 3.410 | 0.025 | 0.006 |
| W 2 - W 3 | 8.600 12. | 601 11.504 | 2.207 | - 0 . 5 7 1 |
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ALIGNMENT X

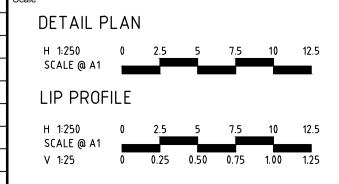
ALIGNMENT X

| POINT | NO EASTING | NORTHING | R L | |
|-------|------------|-------------|---------|---------|
| X 1 | 290537.174 | 5822665.055 | 115.244 | |
| 1 / 4 | 290533.511 | 5822665.605 | 115.287 | |
| 1 / 2 | 290529.955 | 5822664.563 | 115.329 | |
| 3 / 4 | 290527.169 | 5822662.122 | 115.372 | |
| X 2 | 290525.667 | 5822658.735 | 115.415 | |
| | | | | |
| CURVE | RADIUS ARC | L CHORD | MID ORD | QTR ORD |
| | 8.600 14.9 | | | |
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KERB RETURN SETOUT DETAIL

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ABN 55 050 029 63

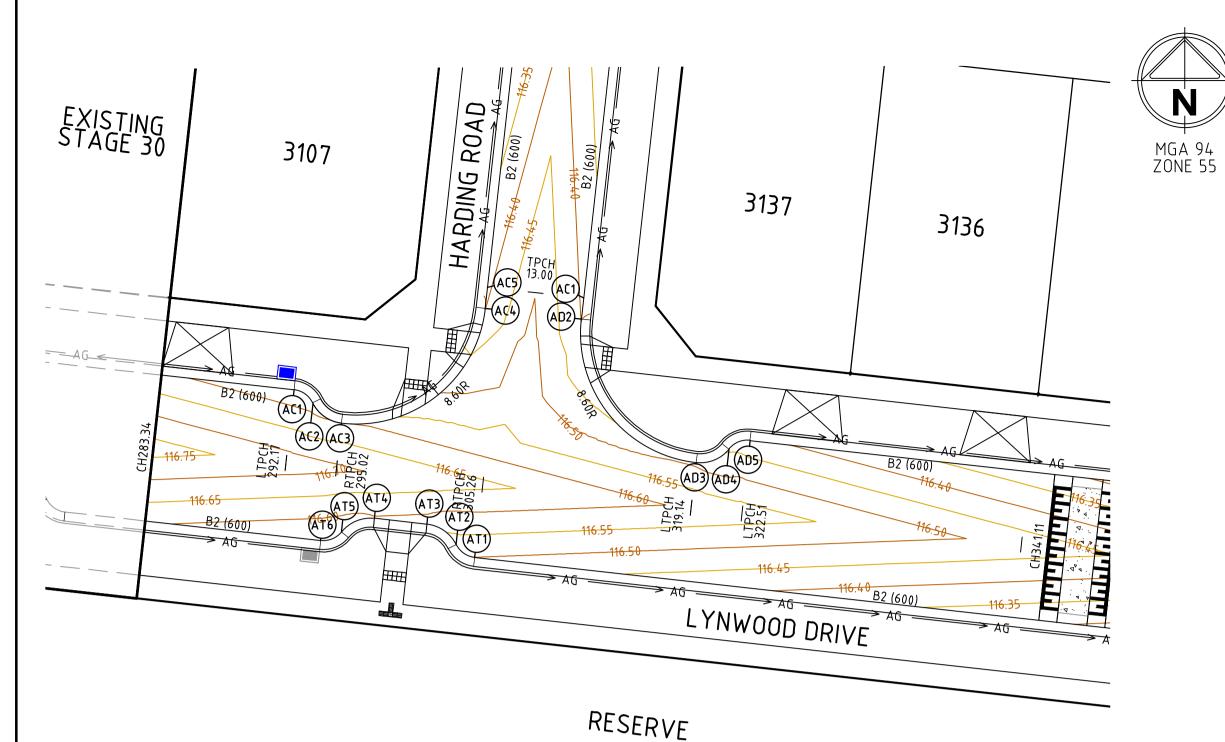


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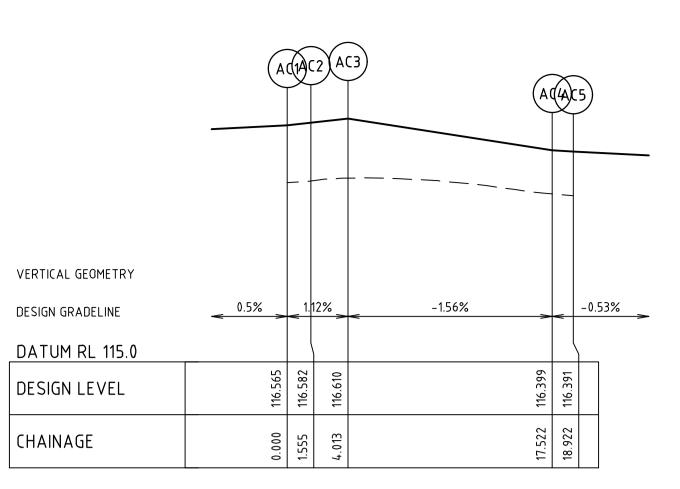
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THORNHILL PARK ESTATE
STAGE 30A
ROAD AND DRAINAGE
INTERSECTION DETAILS - SHEET 1 OF 6
MELTON CITY COUNCIL
WEL.CO GROUP



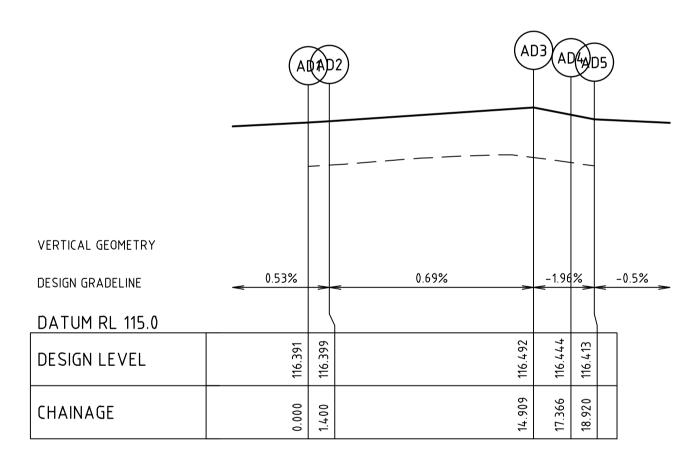
INTERSECTION OF HARDING STREET AND LYNWOOD DRIVE



ALIGNMENT AC

ALIGNMENT AC

RADIUS ARCL CHORD MID ORD QTR ORD

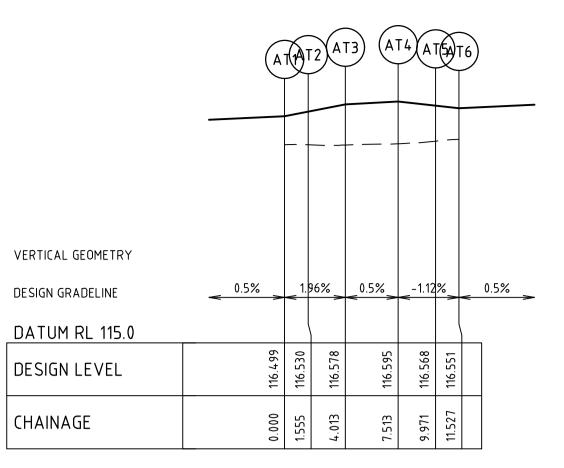


ALIGNMENT AD

ALIGNMENT AD

| POINT AD1 AD2 1/4 1/2 3/4 AD3 1/4 1/2 3/4 AD4 1/4 | NO EASTING 290400.369 290400.215 290400.502 290402.046 290404.613 290407.812 290409.016 290409.549 290409.990 290410.269 | NORTHING 5822568.657 5822567.266 5822563.923 5822560.944 5822558.782 5822557.768 5822557.777 5822557.938 5822558.240 5822558.666 5822558.934 5822559.126 | RL 116.391 116.422 116.445 116.468 116.480 116.468 116.468 116.468 116.456 116.456 |
|--|--|--|--|
| | | | |
| 3 / 4 | 290410.980 | 5822559.227 | 116.421 |
| A D 5 | 290411.367 | 3022339.233 | 110.413 |

CURVE RADIUS ARC L CHORD MID ORD QTR ORD AD2-AD3 8.600 13.509 12.162 2.519 -0.655 AD3-AD4 2.450 2.457 2.356 0.302 -0.077 AD4-AD5 1.550 1.554 1.490 0.191 0.048



ALIGNMENT AT

ALIGNMENT AT

| POINT | NO EASTING | NORTHING | R L |
|-------|------------|-------------|---------|
| A T 1 | 290393.152 | 5822551.499 | 116.499 |
| 1 / 4 | 290392.775 | 5822551.590 | 116.507 |
| 1 / 2 | 290392.433 | 5822551.772 | 116.515 |
| 3 / 4 | 290392.146 | 5822552.033 | 116.522 |
| A T 2 | 290391.932 | 5822552.356 | 116.530 |
| 1 / 4 | 290391.595 | 5822552.868 | 116.542 |
| 1/2 | 290391.142 | 5822553.281 | 116.554 |
| 3 / 4 | 290390.600 | 5822553.567 | 116.566 |
| A T 3 | 290390.004 | 5822553.711 | 116.578 |
| A T 4 | 290386.526 | 5822554.098 | 116.595 |
| 1 / 4 | 290385.913 | 5822554.089 | 116.588 |
| 1/2 | 290385.321 | 5822553.928 | 116.582 |
| 3 / 4 | 290384.788 | 5822553.625 | 116.575 |
| A T 5 | 290384.347 | 5822553.200 | 116.568 |
| 1 / 4 | 290384.068 | 5822552.931 | 116.564 |
| 1 / 2 | 290383.731 | 5822552.739 | 116.559 |
| 3 / 4 | 290383.357 | 5822552.638 | 116.555 |
| A T 6 | 290382.969 | 5822552.632 | 116.551 |
| A 1 0 | 270302.909 | 3022332.032 | 110.551 |

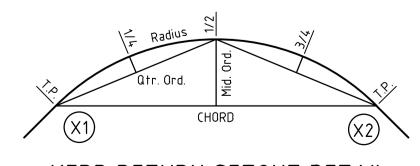
 CURVE
 RADIUS
 ARC L
 CHORD
 MID ORD
 QTR ORD

 AT1-AT2
 1.550
 1.555
 1.491
 0.191
 0.049

 AT2-AT3
 2.450
 2.458
 2.356
 0.302
 -0.077

 AT4-AT5
 2.450
 2.458
 2.356
 0.302
 -0.077

 AT5-AT6
 1.550
 1.555
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KERB RETURN SETOUT DETAIL

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ABN 55 050 029 635

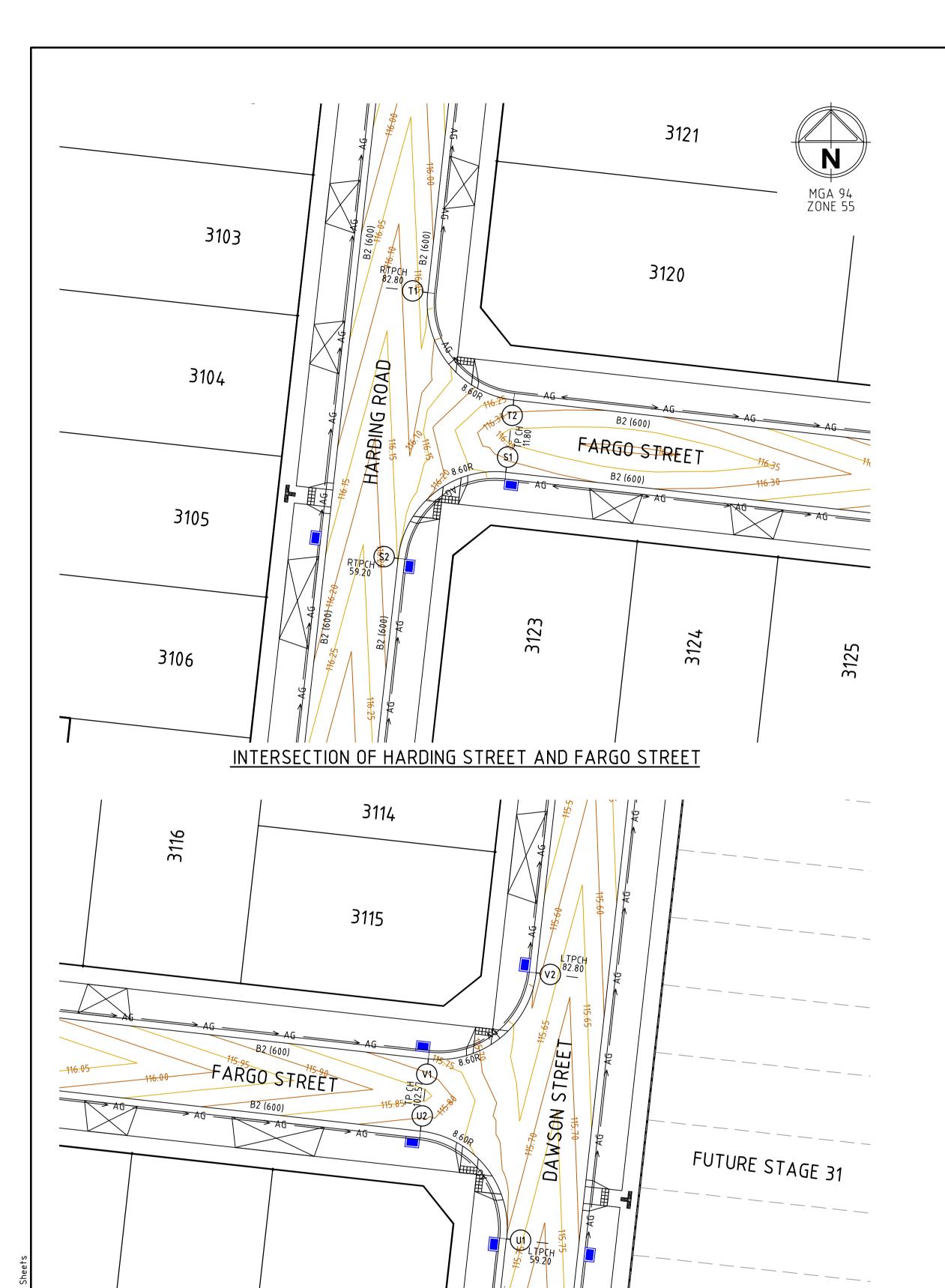
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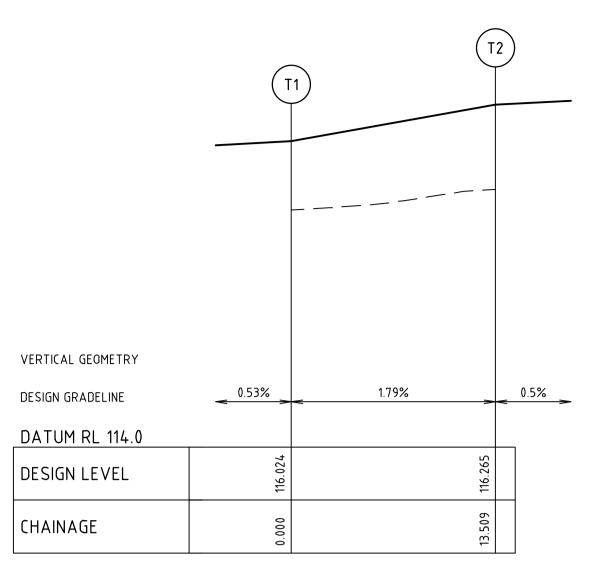
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THORNHILL PARK ESTATE STAGE 30A ROAD AND DRAINAGE INTERSECTION DETAILS - SHEET 2 OF 6 MELTON CITY COUNCIL

WEL.CO GROUP PRELIMINARY 306842CR501

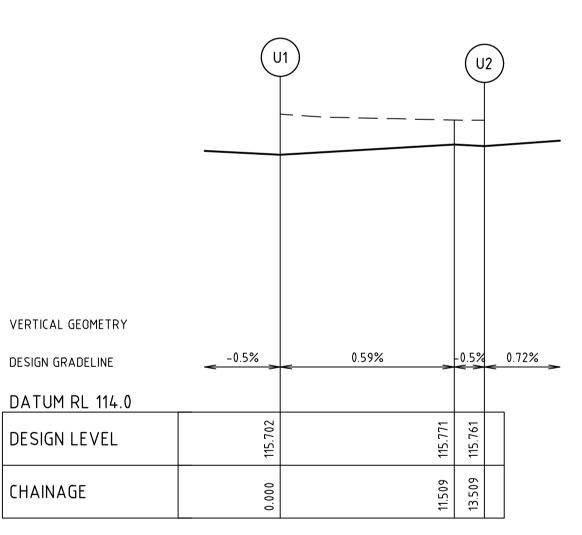




ALIGNMENT T

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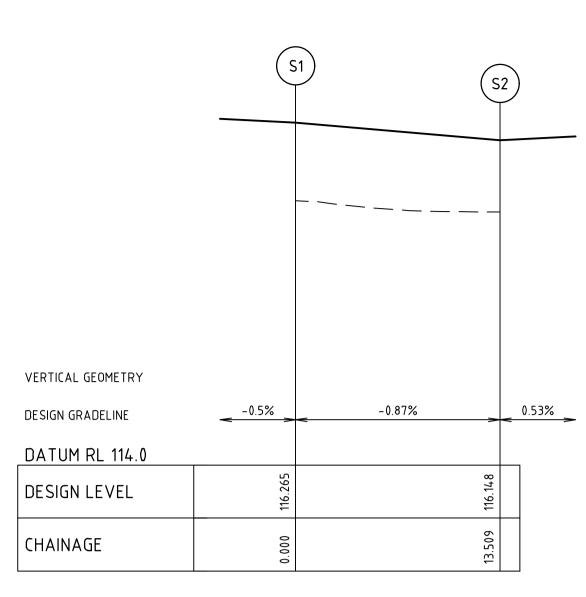
POINT NO EASTING NORTHING RL 290408.083 5822638.030 116.024 290408.370 5822634.687 116.084 1 / 2 290409.914 5822631.708 116.144 290412.481 5822629.546 116.205 3 / 4 290415.679 5822628.532 116.265 RADIUS ARC L CHORD MID ORD QTR ORD T1-T2 8.600 13.509 12.162 2.519 -0.655



ALIGNMENT U

ALIGNMENT U

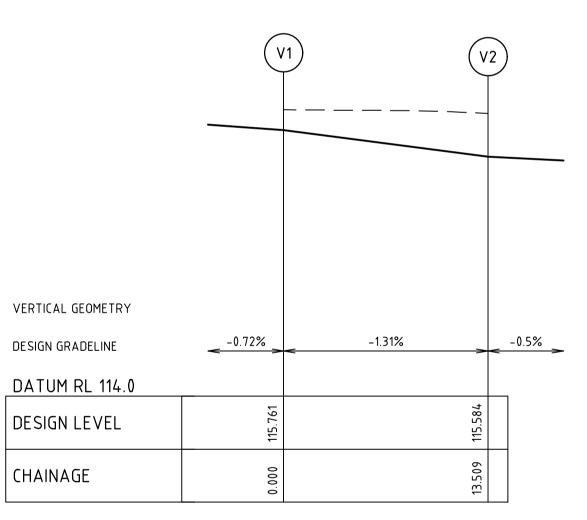
POINT NO EASTING NORTHING RL
U1 290512.784 5822602.643 115.702
1/4 290512.497 5822605.986 115.722
1/2 290510.952 5822608.965 115.742
3/4 290508.385 5822611.126 115.763 290505.187 5822612.141 115.761 RADIUS ARC L CHORD MID ORD QTR ORD 8.600 13.509 12.162 2.519 -0.655



ALIGNMENT S

ALIGNMENT S

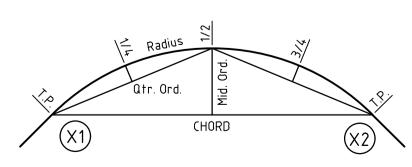
POINT NO EASTING NORTHING RL 290414.972 5822622.171 116.265 290411.629 5822621.884 116.236 290408.650 5822620.340 116.207 290406.489 5822617.773 116.177 3 / 4 290405.475 5822614.574 116.148 RADIUS ARC L CHORD MID ORD QTR ORD S1-S2 8.600 13.509 12.162 2.519 -0.655



ALIGNMENT V

ALIGNMENT V

POINT NO EASTING NORTHING RL
V1 290505.894 5822618.502 115.761
1/4 290509.237 5822618.788 115.717
1/2 290512.216 5822620.333 115.672
3/4 290514.377 5822622.900 115.628 290515.391 5822626.098 115.584 CURVE RADIUS ARC L CHORD MID ORD QTR ORD V1-V2 8.600 13.509 12.162 2.519 -0.655



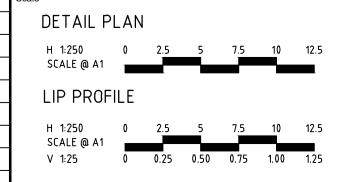
KERB RETURN SETOUT DETAIL

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| file file | Rev | Amendments | Approved | Date | |

3129

INTERSECTION OF DAWSON STREET AND FARGO STREET

3128





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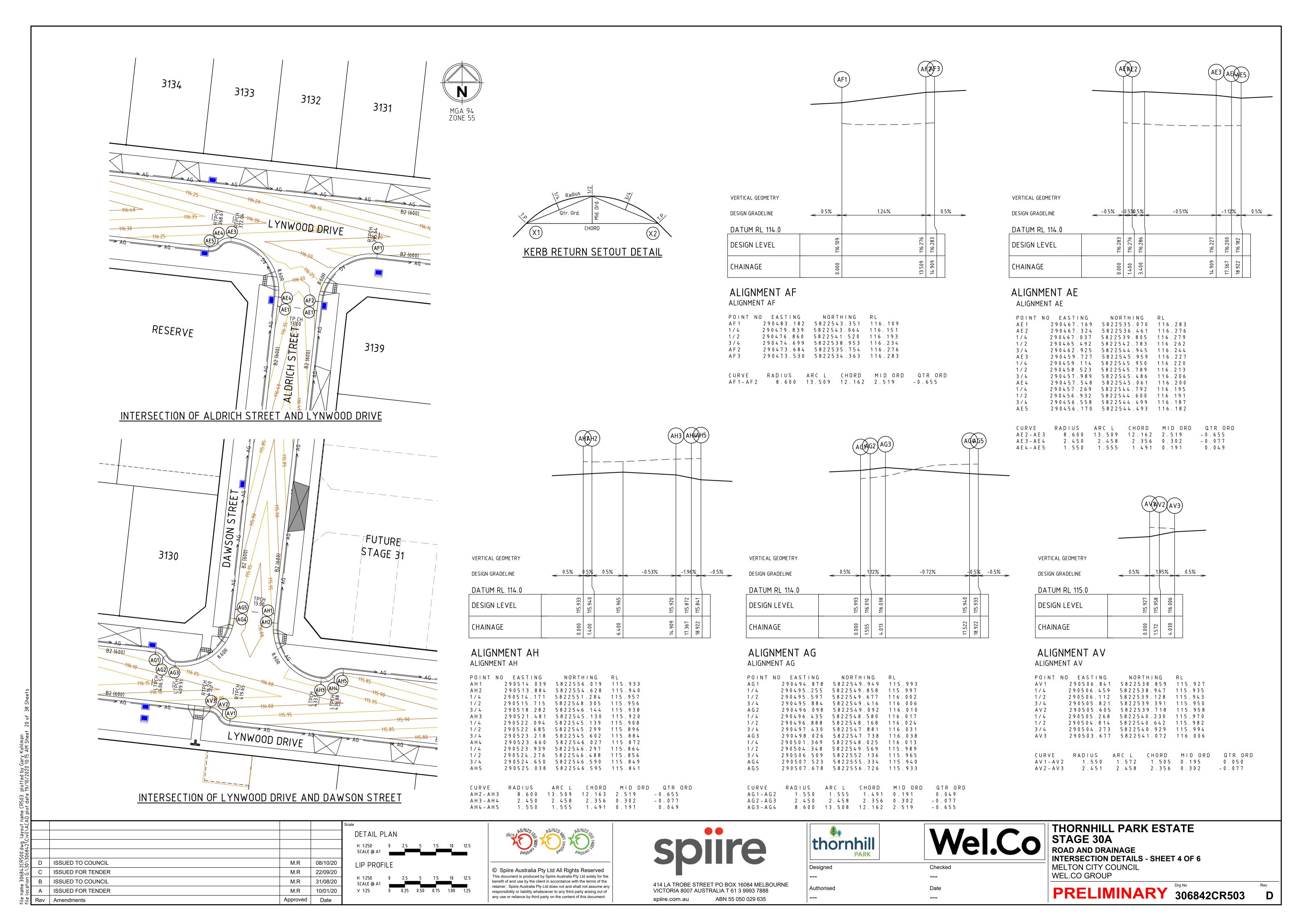


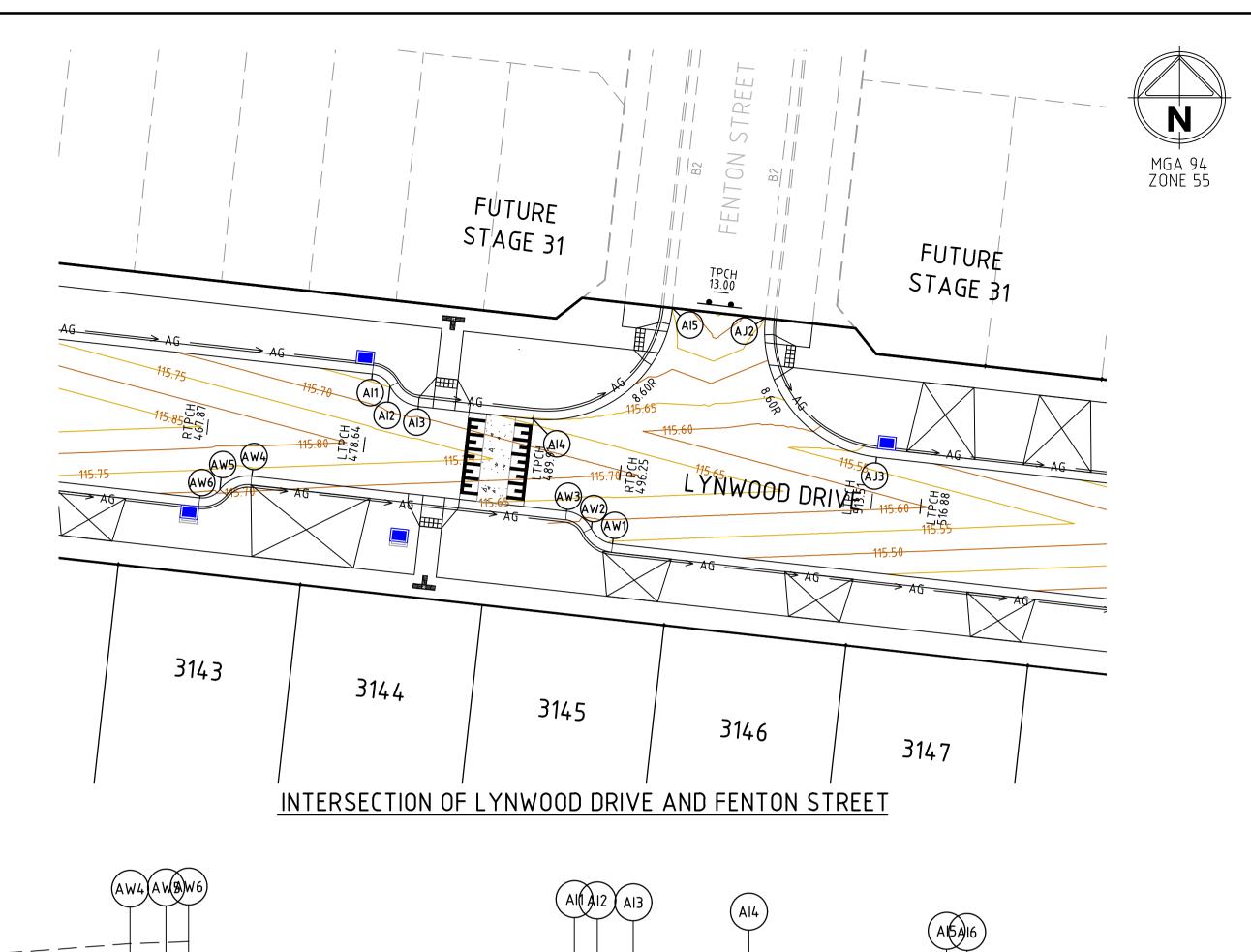
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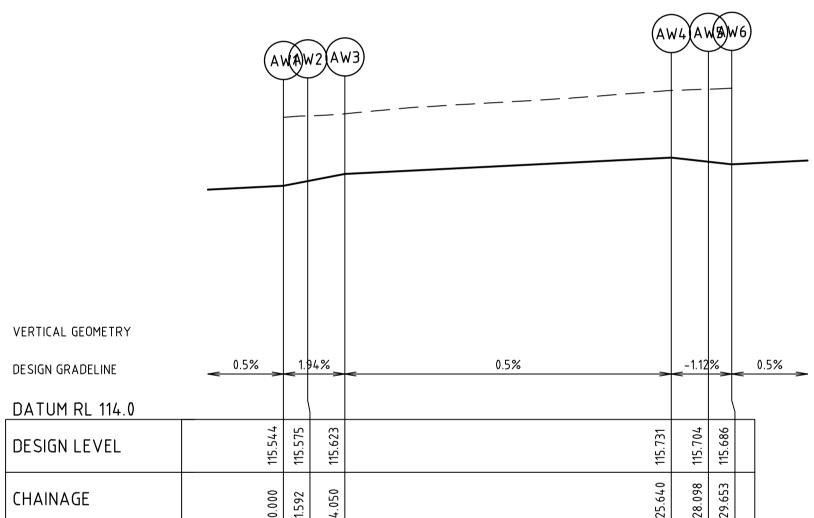
VICTORIA 8007 AUSTRALIA T 61 3 9993 7888

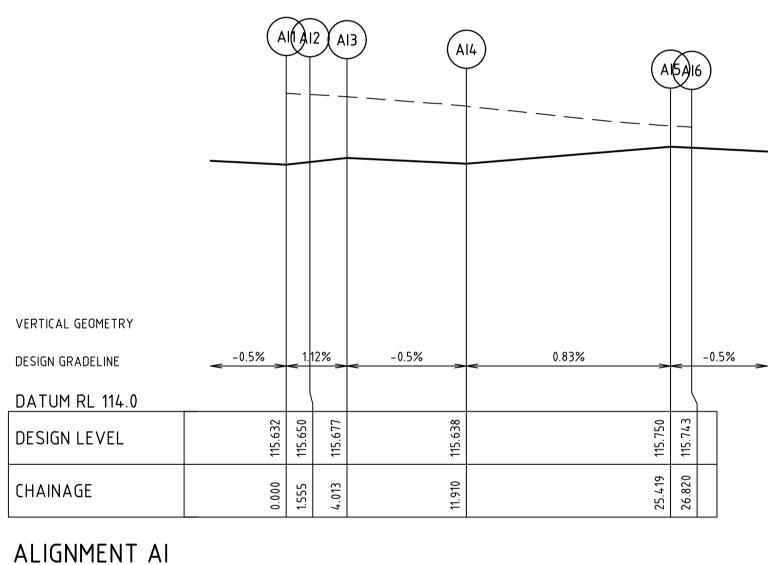
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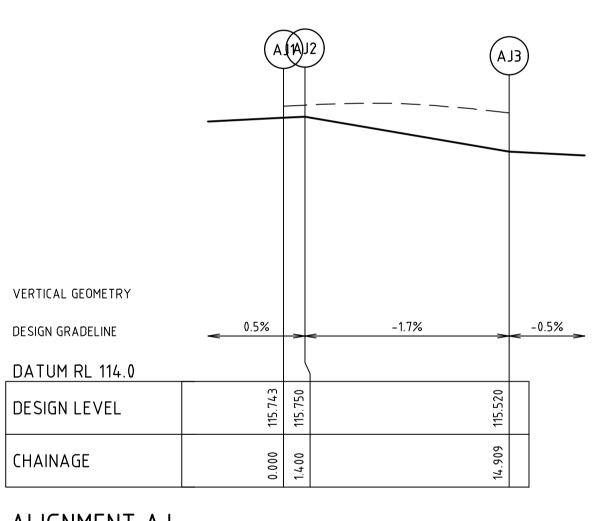
THORNHILL PARK ESTATE STAGE 30A **ROAD AND DRAINAGE INTERSECTION DETAILS - SHEET 3 OF 6** MELTON CITY COUNCIL WEL.CO GROUP











| ALI | SNMENT AW | | |
|---|---|--|---|
| ALIC | SNMENT AW | | |
| POINT AW1 1/4 1/2 3/4 AW2 1/4 1/2 3/4 AW4 1/2 3/4 AW5 1/2 3/4 | 2 9 0 5 5 7 . 7 0 9 2 9 0 5 5 7 . 1 1 7 2 9 0 5 5 6 . 5 8 4 2 9 0 5 5 6 . 1 4 3 2 9 0 5 5 5 . 8 6 4 2 9 0 5 5 5 . 5 2 7 2 9 0 5 5 5 . 1 5 3 | NORTHING 5822530.395 5822530.480 5822530.661 5822531.256 5822531.768 5822531.768 5822532.467 5822532.467 5822534.996 5822534.997 5822534.997 5822534.997 5822534.999 5822534.099 5822533.829 5822533.536 5822533.536 | R L 115.544 115.552 115.560 115.568 115.575 115.599 115.611 115.623 115.731 115.717 115.710 115.704 115.699 115.695 |
| A W 6 | 290554.765 | 5822533.531 | 115.686 |

CURVE RADIUS ARC L CHORD MID ORD QTR ORD

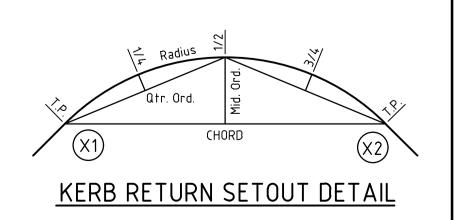
AW1-AW2 1.550 1.592 1.523 0.200 0.051 AW2-AW3 2.450 2.458 2.357 0.302 -0.077 AW4-AW5 2.450 2.458 2.356 0.302 -0.077

AW5-AW6 1.550 1.555 1.491 0.191 0.049

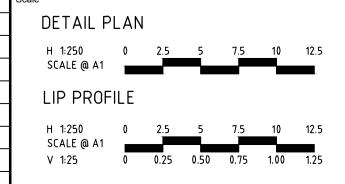
| ALIGNM | NTAL |
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| ALIGNM | INT AT |
| POINT NO | EASTING NORTHING RL |
| A I 1 2 | 90566.539 5822541.981 115.632 |
| 1 / 4 2 | 90566.916 5822541.891 115.637 |
| 1/2 2 | 90567.259 5822541.709 115.641 |
| 3 / 4 2 | 90567.546 5822541.448 115.645 |
| A I 2 2 | 90567.759 5822541.124 115.650 |
| 1 / 4 2 | 90568.096 5822540.612 115.657 |
| 1 / 2 2 | 90568.549 5822540.200 115.664 |
| 3 / 4 2 | 90569.091 5822539.913 115.670 |
| A I 3 2 | 90569.687 5822539.770 115.677 |
| A I 4 2 | 90577.535 5822538.897 115.638 |
| 1 / 4 2 | 90580.879 5822539.184 115.666 |
| 1/2 2 | 90583.858 5822540.728 115.694 |
| 3 / 4 2 | 90586.019 5822543.295 115.722 |
| A I 5 2 | 90587.033 5822546.494 115.750 |
| A I 6 2 | 90587.188 5822547.886 115.743 |
| | |
| | |
| | RADIUS ARCL CHORD MID ORD QTR ORD |
| | 1.550 1.555 1.491 0.191 0.049 |
| A I 2 - A I 3 | 2.450 2.458 2.356 0.302 -0.077 |

A I 4 - A I 5 8 . 6 0 0 1 3 . 5 0 9 1 2 . 1 6 3 2 . 5 1 9 - 0 . 6 5 5

| ALIGN | MENT AJ | | | | |
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| ALIGN | MENT AJ | | | | |
| POINT N AJ1 AJ2 1/4 1/2 3/4 AJ3 | O E A S T I N G 2 9 0 5 9 3 . 5 4 9 2 9 0 5 9 3 . 3 9 4 2 9 0 5 9 3 . 6 8 1 2 9 0 5 9 5 . 2 2 6 2 9 0 5 9 7 . 7 9 3 2 9 0 6 0 0 . 9 9 1 | 5 8 2 2 5 4 5 8 2 2 5 4 5 8 2 2 5 4 5 8 2 2 5 3 5 8 2 2 5 3 | 45.787 -2.444 89.465 37.304 | R L 1 1 5 . 7 4 3 1 1 5 . 7 5 0 1 1 5 . 6 9 2 1 1 5 . 6 3 5 1 1 5 . 5 7 7 1 1 5 . 5 2 0 | |
| C U R V E A J 2 – A J 3 | RADIUS 8.600 | ARC L 13.508 | C H O R D 1 2 . 1 6 2 | MID 0RD 2.519 | Q T R O R D - 0 . 6 5 5 |



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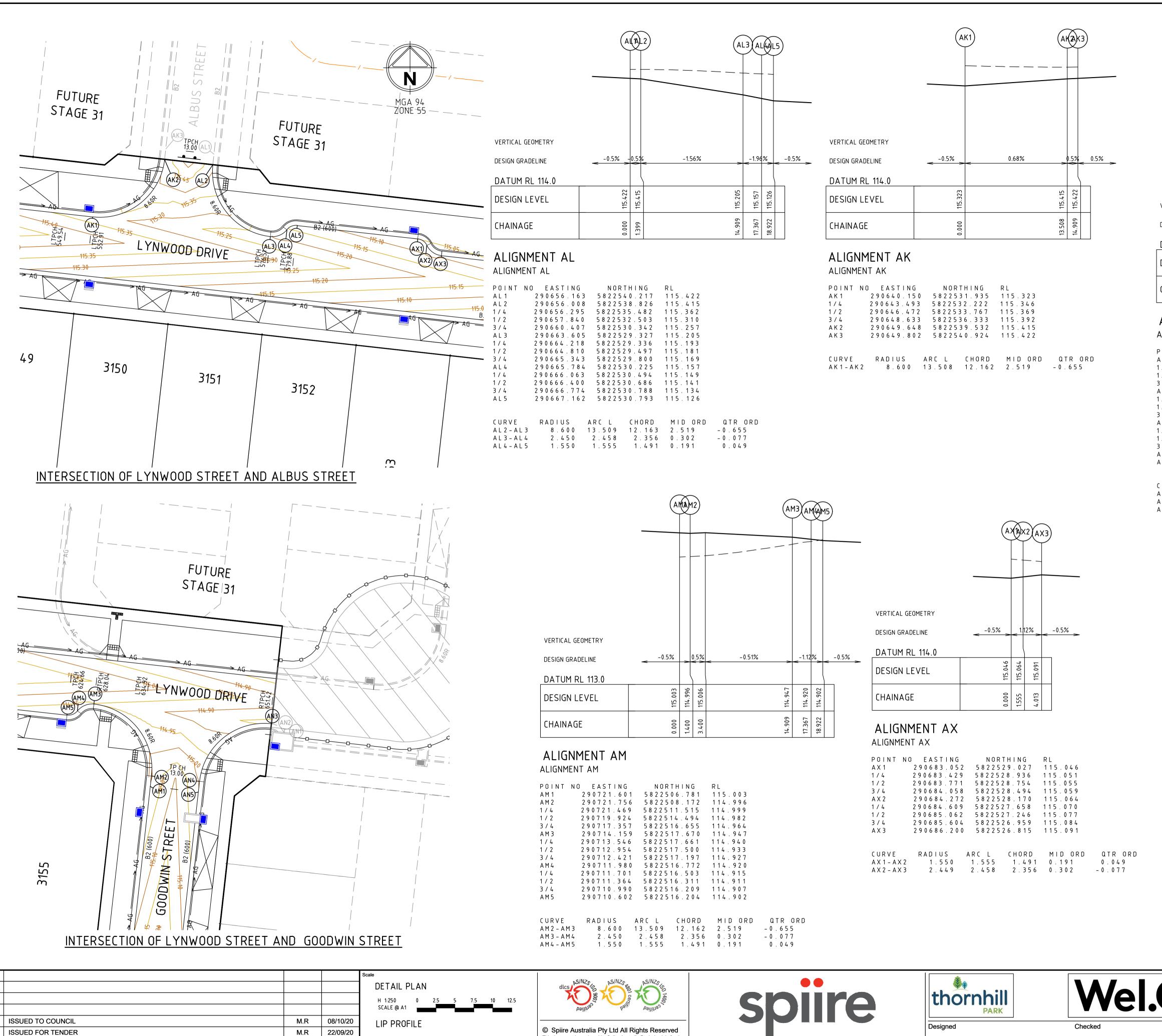
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| ı | THORNHILL PARK ESTATE STAGE 30A |
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| _ | ROAD AND DRAINAGE INTERSECTION DETAILS - SHEET 5 OF 6 MELTON CITY COUNCIL WEL.CO GROUP |



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ISSUED FOR TENDER

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M.R

Approved

31/08/20

10/01/20

Date

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0 0.25 0.50 0.75 1.00

| | AI | vha! | N2 (AI | N3) | Al | Y A N | 5 |
|-------------------|---------|-----------|---------|-------|---------|---------|------|
| VERTICAL GEOMETRY | | | | | | | |
| DESIGN GRADELINE | -0.5% | <u>1.</u> | 88% > | 1.25% | | < | 0.5% |
| DATUM RL 113.0 | | | | | | | 1 |
| DESIGN LEVEL | 114.751 | 114.783 | 114.830 | | 114.996 | 115.003 | |
| CHAINAGE | 0.000 | 1.711 | 4.235 | | 17.525 | 18.925 | |

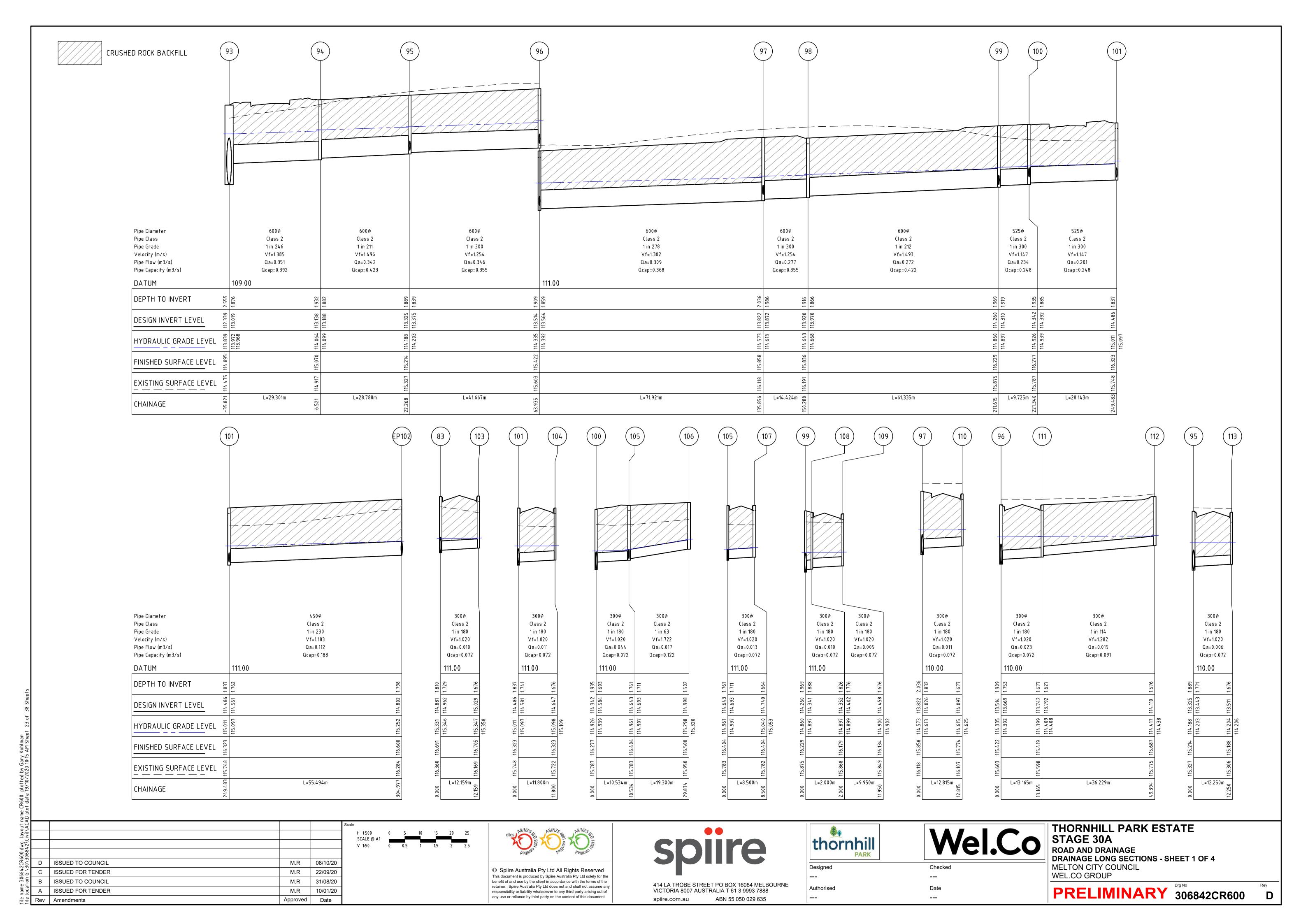
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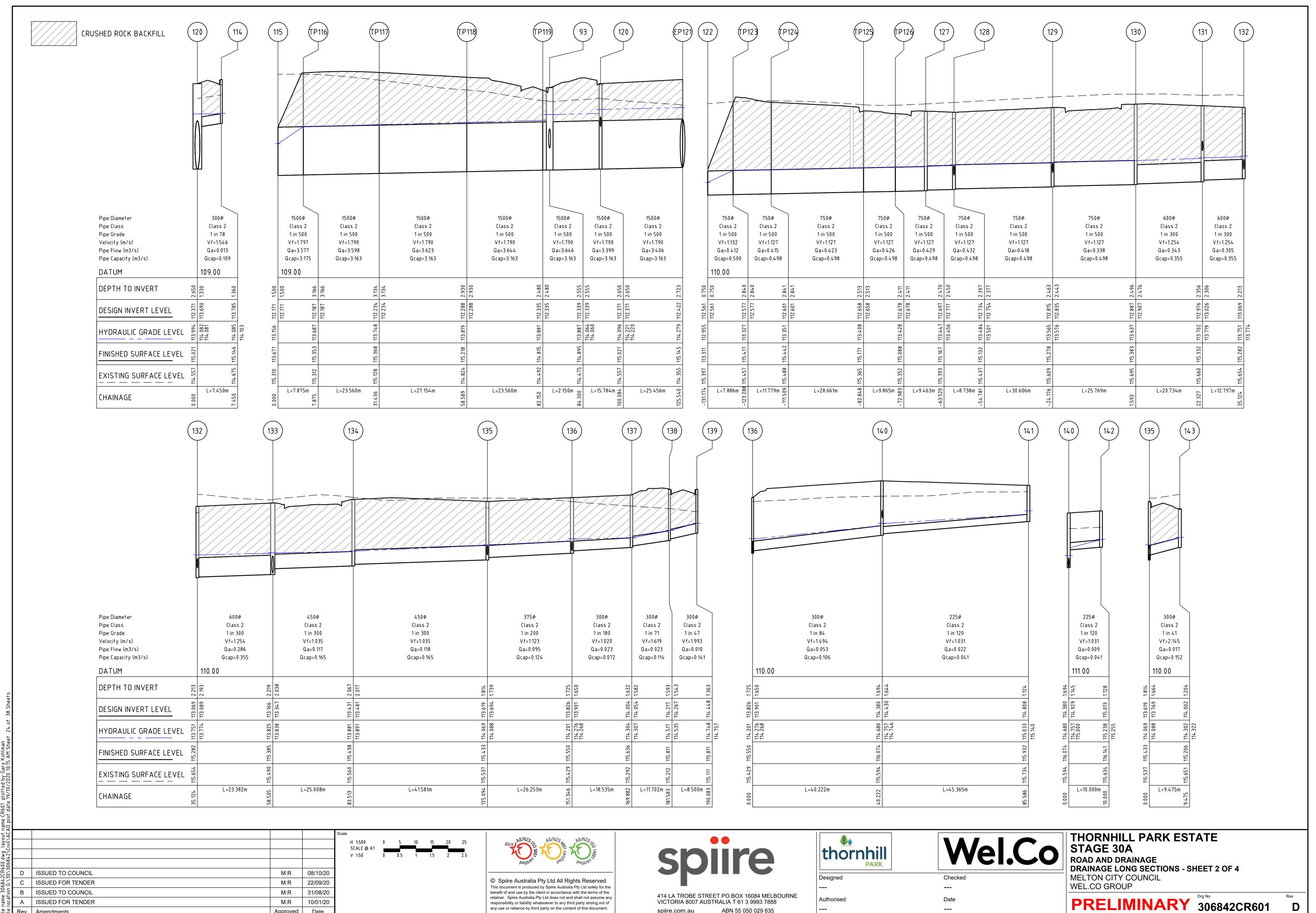
| P 0 N T A N 1 1 / 4 | NO EASTING 290740.762 290740.341 | NORTHING 5822512.850 5822512.914 | R L 1 1 4 . 7 5 1 1 1 4 . 7 5 9 |
|-----------------------------|--|--|---------------------------------------|
| 1 / 2 | 290739.952 | 5822513.090 | 114.767 |
| 3 / 4 | 290739.627 | 5822513.365 | 114.775 |
| A N 2 | 290739.389 | 5822513.719 | 114.783 |
| 1 / 4 | 290739.042 | 5822514.244 | 114.795 |
| 1 / 2 | 290738.572 | 5822514.663 | 114.806 |
| 3 / 4 | 290738.012 | 5822514.949 | 114.818 |
| A N 3 | 290737.397 | 5822515.083 | 114.830 |
| 1 / 4 | 290734.114 | 5822514.728 | 114.872 |
| 1 / 2 | 290731.207 | 5822513.161 | 114.913 |
| 3 / 4 | 290729.105 | 5822510.615 | 114.954 |
| A N 4 | 290728.117 | 5822507.465 | 114.996 |
| A N 5 | 290727.962 | 5822506.073 | 115.003 |
| | | | |

CURVE RADIUS ARC L CHORD MID ORD QTR ORD AN1-AN2 1.550 1.711 1.625 0.230 0.059 AN2-AN3 2.450 2.524 2.414 0.318 -0.081 AN3-AN4 8.600 13.290 12.007 2.442 -0.634

Wel.Co

THORNHILL PARK ESTATE STAGE 30A **ROAD AND DRAINAGE INTERSECTION DETAILS - SHEET 6 OF 6** MELTON CITY COUNCIL WEL.CO GROUP





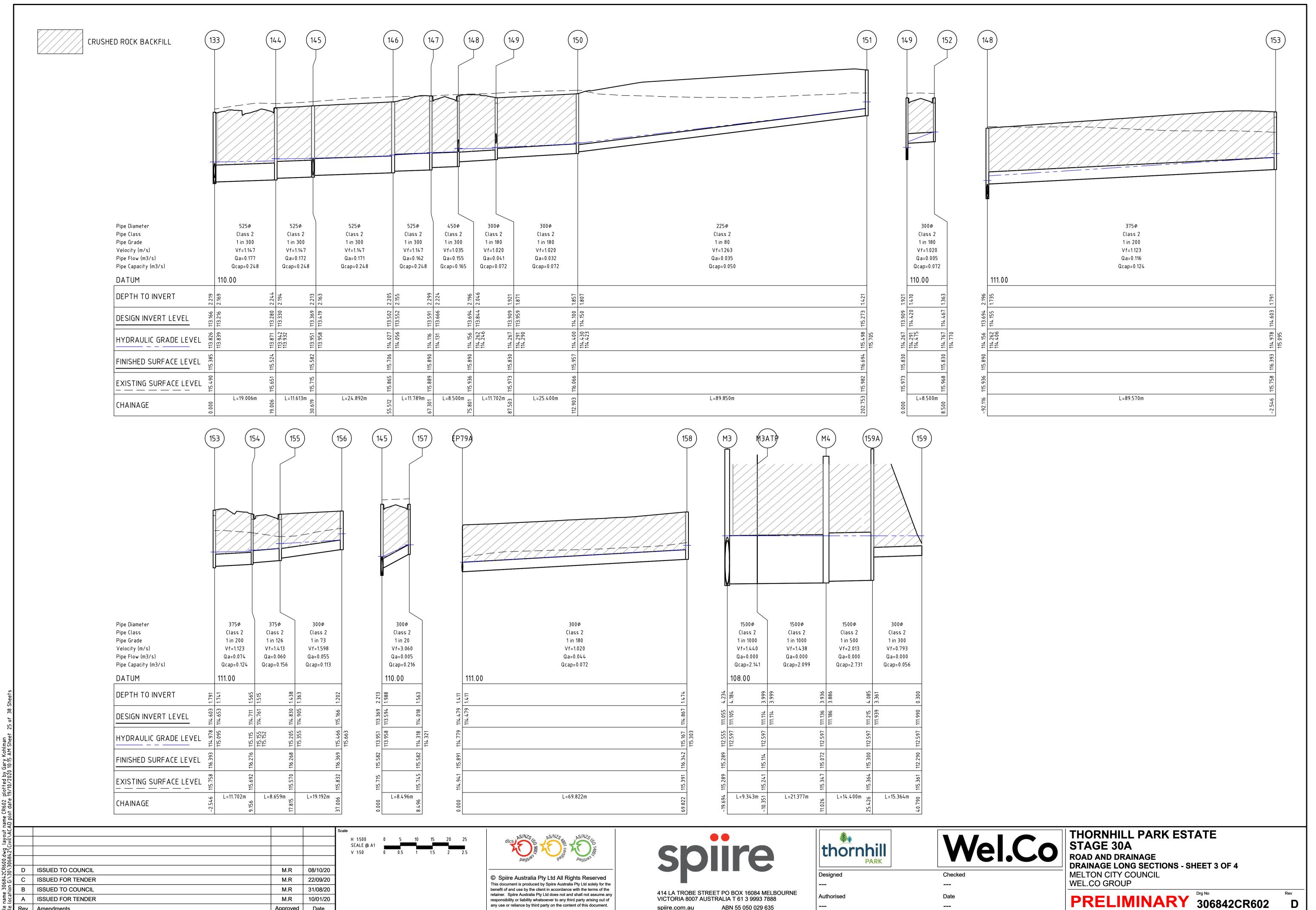
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Rev | Amendments

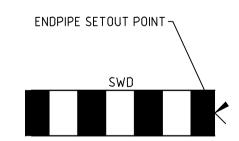
| ΠRΔ | INAGE PIT SCHE | NIII F | | | | | | | | |
|----------------|---|------------|--------|--------------|--------------------|--------------|--------------------|--------------------|----------------|---|
| | PIT | INTE | RNAL | INLET | | OUTLET | | PIT | | REMARKS |
| NAME | TYPE | WIDTH | LENGTH | DIA | INV LEVEL | DIA | INV LEVEL | FS LEVEL | DEPTH | |
| M3ATP | TANGENT POINT | 0 | 0 | 1500 | 111.114 | 1500 | 111.114 | 115.114 | 3.999 | |
| M4 | JUNCTION PIT | 1800 | 1800 | 1500 | 111.186 | 1500 | 111.136 | 115.072 | 3.936 | MAIN CHAMBER PIT, REFER TO MELBOURNE WATER DRAWING 7251/08/408 & 7251/08/409. |
| 93 | JUNCTION PIT | 2700 | 2100 | 1500 | 112.339 | 1500 | 112.339 | 114.895 | 2.555 | REFER TO VICROADS STANDARD DRAWING SD1023. |
| | | | | 600 | 113.019 | | | | | |
| 94 | GRATED SIDE ENTRY PIT | 900 | 900 | 600 | 113.188 | 600 | 113.138 | 115.070 | 1.932 | |
| 95 | JUNCTION PIT | 900 | 900 | 300 | 113.375 | 600 | 113.325 | 115.214 | 1.889 | |
| 96 | GRATED SIDE ENTRY PIT | 900 | 900 | 600 | 113.443 | 600 | 113.514 | 115.422 | 1,909 | |
| | | | | 300 | 113.712 | | | | | |
| 97 | JUNCTION PIT | 900 | 900 | 600 | 113.872 | 600 | 113.822 | 115.858 | 2.036 | |
| | | | | 300 | 114.026 | | | | | |
| 98 | GRATED SIDE ENTRY PIT JUNCTION PIT | 900 750 | 900 | 600 525 | 113.970 114.310 | 600 | 113.920 114.260 | 115.836 116.229 | 1.916 | |
| - ,, | JONETIONTTI | 750 | 700 | 300 | 114.341 | 000 | 114.200 | 110.227 | 1.707 | |
| 100 | JUNCTION PIT | 750 | 900 | 525 | 114.392 | 525 | 114.342 | 116.277 | 1.935 | |
| | | | | 300 | 114.584 | | | | | |
| 101 | GRATED SIDE ENTRY PIT | 750 | 900 | 450 | 114.561 | 525 | 114.486 | 116.323 | 1.837 | |
| EP102 | ENDPIPE | 0 | 0 | 300 | 114.581 | 450 | 114.802 | 116.600 | 1.798 | |
| EPIUZ | ENDPIPE | 0 | U | 450 | 114.802 | 430 | 114.002 | 110.000 | 1.790 | |
| 103 | GRATED SIDE ENTRY PIT | 600 | 900 | | | 300 | 115.029 | 116.705 | 1.676 | |
| 104 | GRATED SIDE ENTRY PIT | 600 | 900 | | | 300 | 114.647 | 116.323 | 1.676 | |
| 105 | GRATED SIDE ENTRY PIT | 600 | 900 | 300 | 114.693 | 300 | 114.643 | 116.404 | 1.761 | |
| 106 | JUNCTION PIT | 600 | 900 | 300 | 114.693 | 300 | 114.998 | 116.500 | 1.502 | |
| 107 | GRATED SIDE ENTRY PIT | 600 | 900 | | | 300 | 114.740 | 116.404 | 1.664 | |
| 108 | GRATED SIDE ENTRY PIT | 600 | 900 | 300 | 114.402 | 300 | 114.352 | 116.179 | 1.826 | |
| 109 | GRATED SIDE ENTRY PIT | 600 | 900 | | | 300 | 114.458 | 116.134 | 1.676 | |
| 110 | GRATED SIDE ENTRY PIT | 600 | 900 | | | 300 | 114.097 | 115.774 | 1.677 | |
| 111 | GRATED SIDE ENTRY PIT JUNCTION PIT | 600 | 900 | 300 | 113.868 | 300 | 113.818 114.192 | 115.513 115.699 | 1.695 1.507 | |
| 113 | GRATED SIDE ENTRY PIT | 600 | 900 | | | 300 | 113.511 | 115.188 | 1.676 | |
| 114 | GRATED SIDE ENTRY PIT | 600 | 900 | | | 300 | 113.785 | 115.146 | 1.360 | |
| 115 | ENDWALL | 0 | 0 | 1500 | 112.171 | | | 113.671 | 1.500 | |
| TP116 | TANGENT POINT | 0 | 0 | 1500 | 112.187 | 1500 | 112.187 | 115.353 | 3.166 | |
| TP117 TP118 | TANGENT POINT TANGENT POINT | 0 | 0 | 1500 | 112.234 | 1500 1500 | 112.234 | 115.368 | 3.134 2.930 | |
| TP119 | TANGENT POINT | 0 | 0 | 1500 1500 | 112.200 | 1500 | 112.288 112.335 | 115.218 114.815 | 2.480 | |
| 120 | GRATED SIDE ENTRY PIT | 2700 | 900 | 1500 | 112.371 | 1500 | 112.371 | 115.021 | 2.650 | |
| | | | | 300 | 113.690 | | | | | |
| EP121 | ENDPIPE | 0 | 0 | | | 1500 | 112.422 | 115.145 | 2.723 | |
| 122 | ENDWALL | 0 | 0 | 1500 750 | 112.422 | | | 113.311 | 0.750 | |
| TP123 | TANGENT POINT | 0 | 0 | 750 | 112.577 | 750 | 112.577 | 115.409 | 2.832 | |
| TP124 | TANGENT POINT | 0 | 0 | 750 | 112.601 | 750 | 112.601 | 115.442 | 2.841 | |
| TP125 | TANGENT POINT | 0 | 0 | 750 | 112.658 | 750 | 112.658 | 115.171 | 2.513 | |
| TP126 | TANGENT POINT | 0 | 0 | 750 | 112.678 | 750 | 112.678 | 115.088 | 2.411 | PROVIDE DIA 300 BLANKED OFF STUB FOR FUTURE CONNECTION |
| 127 | JUNCTION PIT GRATED SIDE ENTRY PIT | 1050 | 900 | 750 750 | 112.717 | 750 750 | 112.697 112.734 | 115.167 115.132 | 2.470 | PROVIDE DIA 300 BLANKED OFF STUB FOR FUTURE CONNECTION |
| 120 | GRATED SIDE ENTRYTTI | 1030 | 700 | 300 | 113.184 | 750 | 112.734 | 113.132 | 2.371 | TROVIDE BIA 300 BEANNED OFF STODE ON FOTONE CONNECTION |
| 129 | JUNCTION PIT | 1050 | 900 | 750 | 112.835 | 750 | 112.815 | 115.278 | 2.463 | PROVIDE DIA 300 BLANKED OFF STUB FOR FUTURE CONNECTION |
| | | | | 300 | 113.265 | | | | | |
| 130 | JUNCTION PIT | 900 | 900 | 600 | 112.907 | 750 | 112.887 | 115.383 | 2.496 | |
| 131 | JUNCTION PIT | 900 | 900 | 300 | 113.026 113.939 | 600 | 112.976 | 115.349 | 2.373 | |
| 132 | GRATED SIDE ENTRY PIT | 900 | 900 | 600 | 113.939 | 600 | 113.075 | 115.290 | 2.215 | PROVIDE DIA 300 BLANKED OFF STUB FOR FUTURE CONNECTION |
| | | | | 300 | 113.375 | | | | | |
| 133 | JUNCTION PIT | 900 | 1350 | 450 | 113.347 | 600 | 113.166 | 115.385 | 2.219 | |
| 134 | JUNCTION PIT | 600 | 900 | 525 | 113.216 | / = ^ | 440 / 74 | 145 / 00 | 2.067 | |
| 135 | GRATED SIDE ENTRY PIT | 600 | 900 | 450 375 | 113.481 | 450 450 | 113.431 113.619 | 115.498 | 1.814 | |
| 133 | dia teb sibe entiti i i | | 700 | 300 | 113.769 | 750 | 113.017 | 113.433 | 1.014 | |
| 136 | JUNCTION PIT | 600 | 900 | 300 | 113.901 | 375 | 113.826 | 115.550 | 1.725 | |
| | | | | 300 | 113.901 | | | | | |
| 137 | JUNCTION PIT | 600 | 900 | 300 | 114.054 | 300 | 114.004 | 115.636 | 1.632 | |
| 138 | GRATED SIDE ENTRY PIT GRATED SIDE ENTRY PIT | 600 | 900 | 300 | 114.267 | 300 | 114.217 | 115.811 | 1.593 | |
| 140 | JUNCTION PIT | 600 | 900 | 225 | 114.430 | 300 | 114.380 | 116.074 | 1.694 | |
| | | | | 225 | 114.929 | | | | | |
| 141 | JUNCTION PIT | 600 | 900 | | | 225 | 114.808 | 115.932 | 1.124 | |
| 142 | JUNCTION PIT | 600 | 900 | | | 225 | 115.013 | 116.141 | 1.128 | REFER MELTON STANDARD DRAWING EDCM605 OR EDCM606 |
| 143 | GRATED ENTRY PIT | 600 | 900 | | | 300 | 114.002 | 115.206 | 1.204 | WITH V SHAPED GRATED LID |
| 144 | GRATED SIDE ENTRY PIT | 750 | 900 | 525 | 113.330 | 525 | 113.280 | 115.524 | 2.244 | |
| 145 | JUNCTION PIT | 750 | 900 | 525 300 | 113.419 113.594 | 525 | 113.369 | 115.582 | 2.213 | |
| 146 | JUNCTION PIT | 600 | 900 | 525 | 113.552 | 525 | 113.502 | 115.706 | 2.205 | |
| 147 | GRATED SIDE ENTRY PIT | 600 | 900 | 450 | 113.666 | 525 | 113.591 | 115.890 | 2.299 | |
| 148 | GRATED SIDE ENTRY PIT | 600 | 900 | 300 | 113.844 | 450 | 113.694 | 115.890 | 2.196 | |
| | | | | | | | | | | |

| | | | | 375 | 114.155 | | | | | |
|------|-----------------------|------|------|-----|---------|------|---------|---------|-------|--|
| 149 | GRATED SIDE ENTRY PIT | 600 | 900 | 300 | 113.959 | 300 | 113.909 | 115.830 | 1.921 | |
| | | | | 300 | 114.420 | | | | | |
| 150 | JUNCTION PIT | 600 | 900 | 225 | 114.150 | 300 | 114.100 | 115.957 | 1.857 | |
| 151 | JUNCTION PIT | 600 | 900 | | | 225 | 115.273 | 116.694 | 1.421 | |
| 152 | GRATED SIDE ENTRY PIT | 600 | 900 | | | 300 | 114.467 | 115.830 | 1.363 | |
| 153 | GRATED SIDE ENTRY PIT | 600 | 900 | 375 | 114.653 | 375 | 114.603 | 116.393 | 1.791 | |
| 154 | GRATED SIDE ENTRY PIT | 600 | 900 | 375 | 114.761 | 375 | 114.711 | 116.276 | 1.565 | |
| 155 | GRATED SIDE ENTRY PIT | 600 | 900 | 300 | 114.905 | 375 | 114.830 | 116.268 | 1.438 | |
| 156 | JUNCTION PIT | 600 | 900 | | | 300 | 115.166 | 116.369 | 1.202 | |
| 157 | GRATED SIDE ENTRY PIT | 600 | 1200 | | | 300 | 114.018 | 115.582 | 1.563 | |
| 158 | JUNCTION PIT | 600 | 900 | | | 300 | 114.867 | 116.342 | 1.474 | |
| 159A | JUNCTION PIT | 1800 | 900 | 375 | 111.939 | 1500 | 111.215 | 115.300 | 4.085 | |
| 159 | ENDWALL | 0 | 0 | | | 375 | 111.990 | 112.365 | 0.375 | |

- 1. ALL GRATED SIDE ENTRY PITS ARE TO BE IN ACCORDANCE WITH MELTON STANDARD DRAWINGS EDCM601 AND EDCM605 OR
- EDCM606 (UNLESS NOTED OTHERWISE) 2. ALL JUNCTION PITS ARE TO BE IN ACCORDANCE WITH MELTON STANDARD DRAWING EDCM605 OR EDCM606 (UNLESS NOTED
- 3. ALL PITS WITH A WIDTH GREATER THAN 600mm ARE TO BE HAUNCHED PITS IN ACCORDANCE WITH MELTON STANDARD DRAWING EDCM607 OR EDCM608 (UNLESS NOTED OTHERWISE)
- 4. ALL GRATED ENTRY ARE TO BE IN ACCORDANCE WITH MELTON STANDARD DRAWING EDCM605 OR EDCM606 WITH "BIKE-SAFE"
- HOT DIP GALVANIZED CLASS D GRATING & FRAME TO SUIT (UNLESS NOTED OTHERWISE)

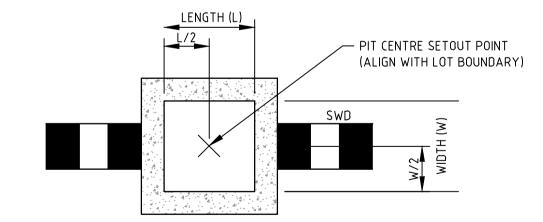
| 5. | ENDWALL | L TO BE STANDARI | D ROCHLA HEADWALL | . (OR APPROVED EQUIVALENT |
|----|---------|------------------|-------------------|---------------------------|

| | | COORDINATES | | | | |
|----------|---------|-------------|-------------|--|--|--|
| PIT NAME | POINT | EASTING | NORTHING | | | |
| МЗАТР | POINT A | 290679.376 | 5822621.510 | | | |
| M4 | POINT B | 290699.336 | 5822613.857 | | | |
| 93 | POINT B | 290739.068 | 5822512.737 | | | |
| 97 | POINT B | 290568.369 | 5822530.811 | | | |
| 100 | POINT B | 290483.412 | 5822540.257 | | | |
| 108 | POINT B | 290493.077 | 5822539.182 | | | |
| 112 | POINT B | 290600.517 | 5822539.260 | | | |
| 115 | POINT A | 290686.687 | 5822558.833 | | | |
| TP116 | POINT A | 290685.817 | 5822551.006 | | | |
| TP117 | POINT A | 290699.068 | 5822534.440 | | | |
| TP118 | POINT A | 290726.055 | 5822531.439 | | | |
| TP119 | POINT A | 290739.306 | 5822514.874 | | | |
| 120 | POINT B | 290727.570 | 5822502.550 | | | |
| 122 | POINT A | 290676.140 | 5822571.177 | | | |
| TP123 | POINT A | 290668.305 | 5822572.048 | | | |
| TP124 | POINT A | 290661.680 | 5822580.331 | | | |
| TP125 | POINT A | 290664.847 | 5822608.816 | | | |
| TP126 | POINT A | 290660.077 | 5822616.648 | | | |
| 127 | POINT B | 290651.954 | 5822619.762 | | | |
| 128 | POINT B | 290643.083 | 5822623.162 | | | |
| 129 | POINT B | 290614.507 | 5822634.119 | | | |
| 130 | POINT B | 290591.159 | 5822643.076 | | | |
| 131 | POINT B | 290571.092 | 5822650.770 | | | |
| 132 | POINT B | 290559.138 | 5822655.349 | | | |
| 133 | POINT B | 290537.219 | 5822663.913 | | | |
| 143 | POINT B | 290478.576 | 5822696.545 | | | |
| 155 | POINT B | 290398.180 | 5822616.383 | | | |
| 159 | POINT A | 290688.687 | 5822586.083 | | | |
| 159A | POINT B | 290694.181 | 5822600.411 | | | |



TYPICAL DRAINAGE SETOUT POINT 'A'

ENDPIPE NOT TO SCALE



TYPICAL DRAINAGE PIT SETOUT POINT 'B' JUNCTION PIT/ EASEMENT PIT/GRATED ENTRY PIT

NOT TO SCALE

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|---------|-----|-------------------|----------|----------|-------|
| A C | | | | | Scale |
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| local | Α | ISSUED FOR TENDER | M.R | 10/01/20 | |
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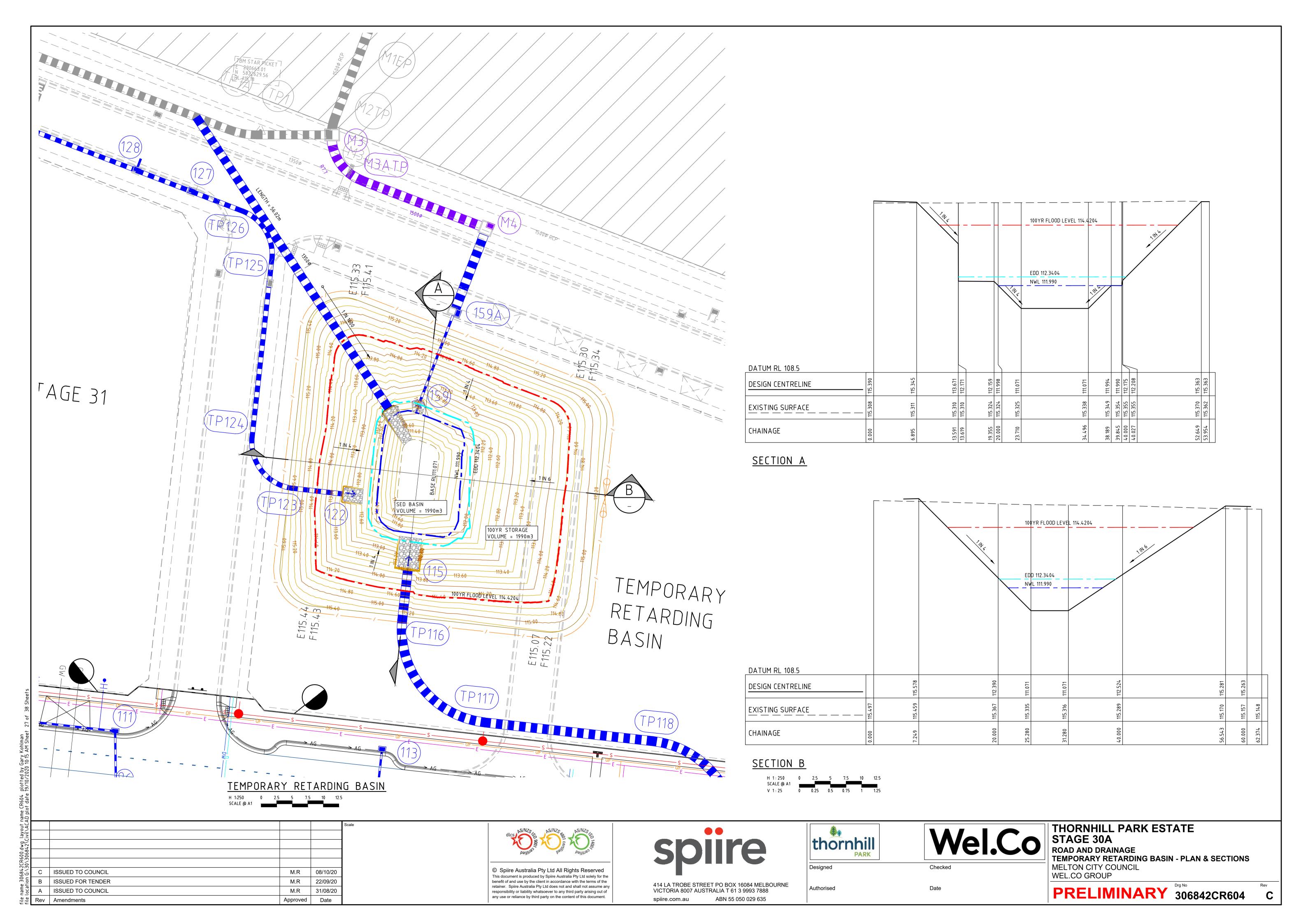
414 LA TROBE STREET PO BOX 16084 MELBOURNE VICTORIA 8007 AUSTRALIA T 61 3 9993 7888 spiire.com.au ABN 55 050 029 635

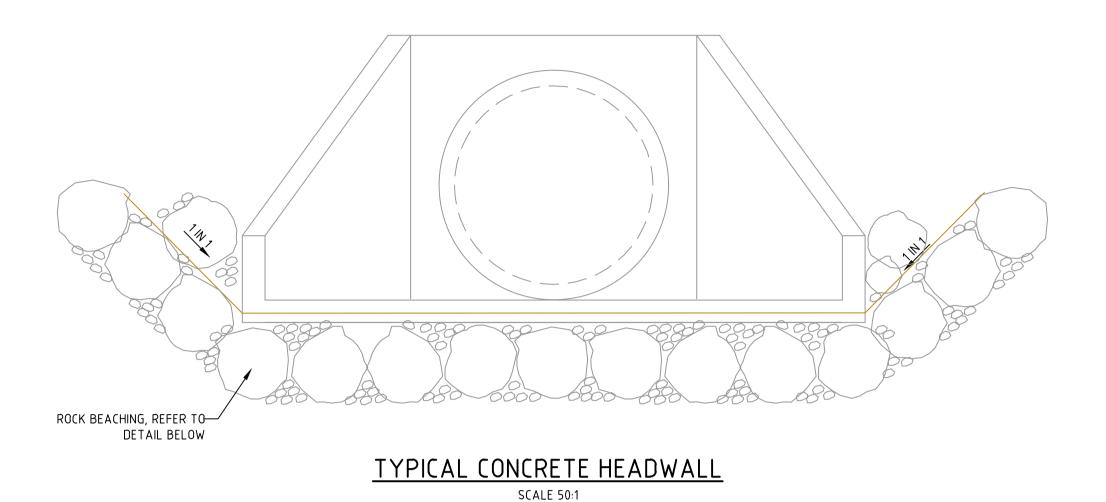


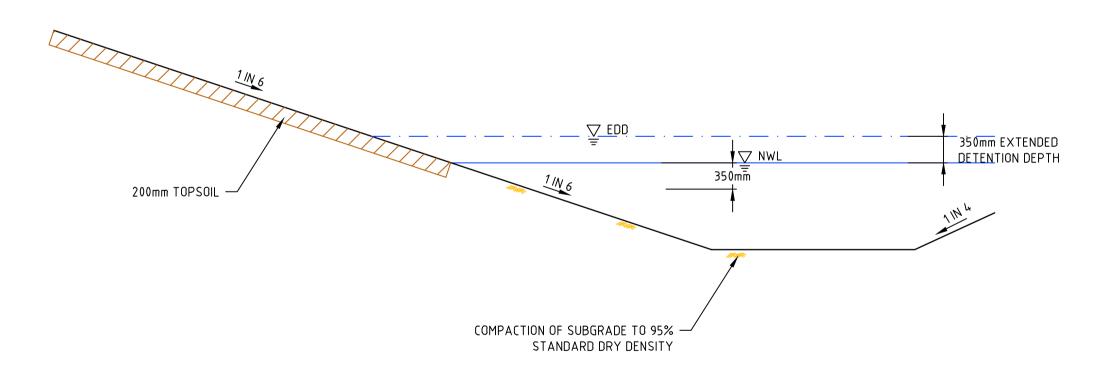
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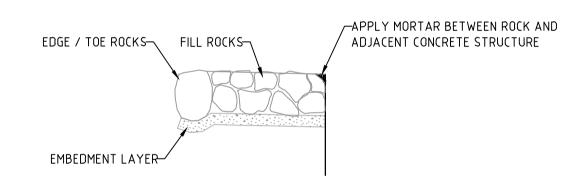
THORNHILL PARK ESTATE STAGE 30A ROAD AND DRAINAGE DRAINAGE LONG SECTIONS - SHEET 4 OF 4 MELTON CITY COUNCIL WEL.CO GROUP







SEDIMENT POND TYPICAL DETAIL (SCALE 1:50, A1)



ROCK BEACHING NOTES:

TYPICAL ROCK BEACHING DETAIL USED FOR SEDIMENT POND TRANSFER PIT AND PIT EDGING. ROCK BEACHING BY INLET PIPE TO SEDIMENTATION POND TO BE CARRIED OUT AS PER DETAIL DETAIL.

150mm THICK (MIN.) COMPACTED WELL GRADED 20mm FCR EDGE ROCKS: FILL ROCKS:

VOIDS:

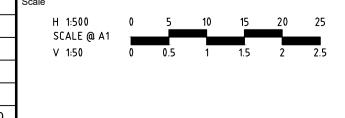
300 - 450mm DIA. min. 2/3 EMBEDDED. 200 - 300mm DIA. ANGULAR WELL GRADED INTERLOCKED IN PLACE. DEPTH OF FILL ROCK TO BE 400m THICK (2 x d50 OF THE FILL ROCK). ALL VOIDS TO BE FILLED AND WASHED THROUGH WITH 0-40mm DIA.

WELL GRADED ROCK.

ROCK BEACHING DETAIL

NOT TO SCALE

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| e 30 tion | В | ISSUED FOR TENDER | M.R | 22/09/20 |
| name 30 location | Α | ISSUED TO COUNCIL | M.R | 31/08/20 |
| file file | Rev | Amendments | Approved | Date |





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| | ET PO BOX 16084 MELBOURNE FRALIA T 61 3 9993 7888 |
|---------------|--|
| spiire.com.au | ABN 55 050 029 635 |



Authorised



Checked

Date

THORNHILL PARK ESTATE STAGE 30A ROAD AND DRAINAGE **TEMPORARY RETARDING BASIN - DETAILS** MELTON CITY COUNCIL

WEL.CO GROUP PRELIMINARY 306842CR605

PAVEMENT DETAILS

THE PAVEMENT DESIGNS SHOWN HERE HAVE BEEN DESIGNED/PROVIDED BY A. S. JAMES PTY LTD GEOTECHNICAL ENGINEERS, WHO ARE RESPONSIBLE FOR THE GEOTECHNICAL WORK ON THIS PROJECT. SPIIRE IS NOT RESPONSIBLE FOR THE WORK OF A. S. JAMES PTY LTD GEOTECHNICAL ENGINEERS.

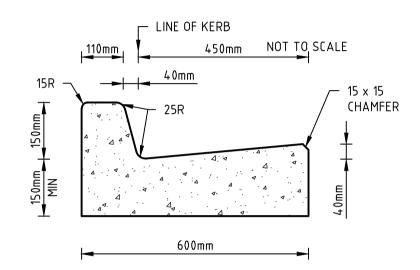
THE PAVEMENT DESIGN HAS BEEN EXTRACTED FROM THE GEOTECHNICAL INVESTIGATION "THORNHILL PARK - PART B & C" BY A. S. JAMES PTY LTD. THIS DOCUMENT SHOULD BE REVIEWED TO ENSURE THAT THE DESIGN HAS BEEN ACCURATELY REPRODUCED.

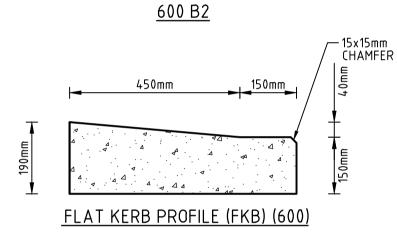
A COPY OF THE DOCUMENT WILL BE PROVIDED TO YOU ON REQUEST.

SPIIRE DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE ACCURACY, ADEQUACY OR APPROPRIATENESS OF THE GEOTECHNICAL WORK AND

ANY QUERIES IN RESPECT TO THE GEOTECHNICAL WORK AND PAVEMENT DESIGNS SHOULD BE ADDRESSED TO A. S. JAMES PTY LTD AND SENT TO SPIIRE.

| ROAD NAME | PAVEMENT TYPE | CLASSIFICATION |
|------------------|---------------|------------------------|
| LYNWOOD DRIVE | А | ACCESS STREET LEVEL 2 |
| WASHINGTON DRIVE | В | ACCESS STREET LEVEL 1U |
| HARDING ROAD | C | ACCESS STREET LEVEL 1L |
| FARGO STREET | C | ACCESS STREET LEVEL 1L |
| DAWSON STREET | (| ACCESS STREET LEVEL 1L |
| ALDRICH STREET | C | ACCESS STREET LEVEL 1L |
| ALDEN STREET | C | ACCESS STREET LEVEL 1L |
| ALBUS STREET | C | ACCESS STREET LEVEL 1L |
| FENTON STREET | C | ACCESS STREET LEVEL 1L |





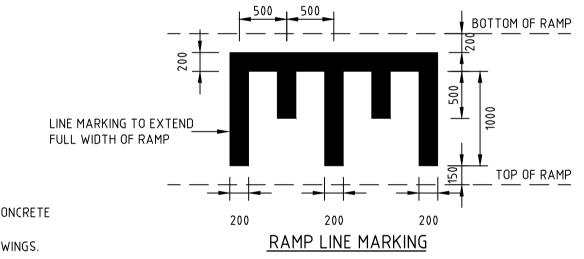
STANDARD KERB PROFILES

NOTES:

1. ALL KERBS AND KERB & CHANNEL TO BE REINFORCED IN

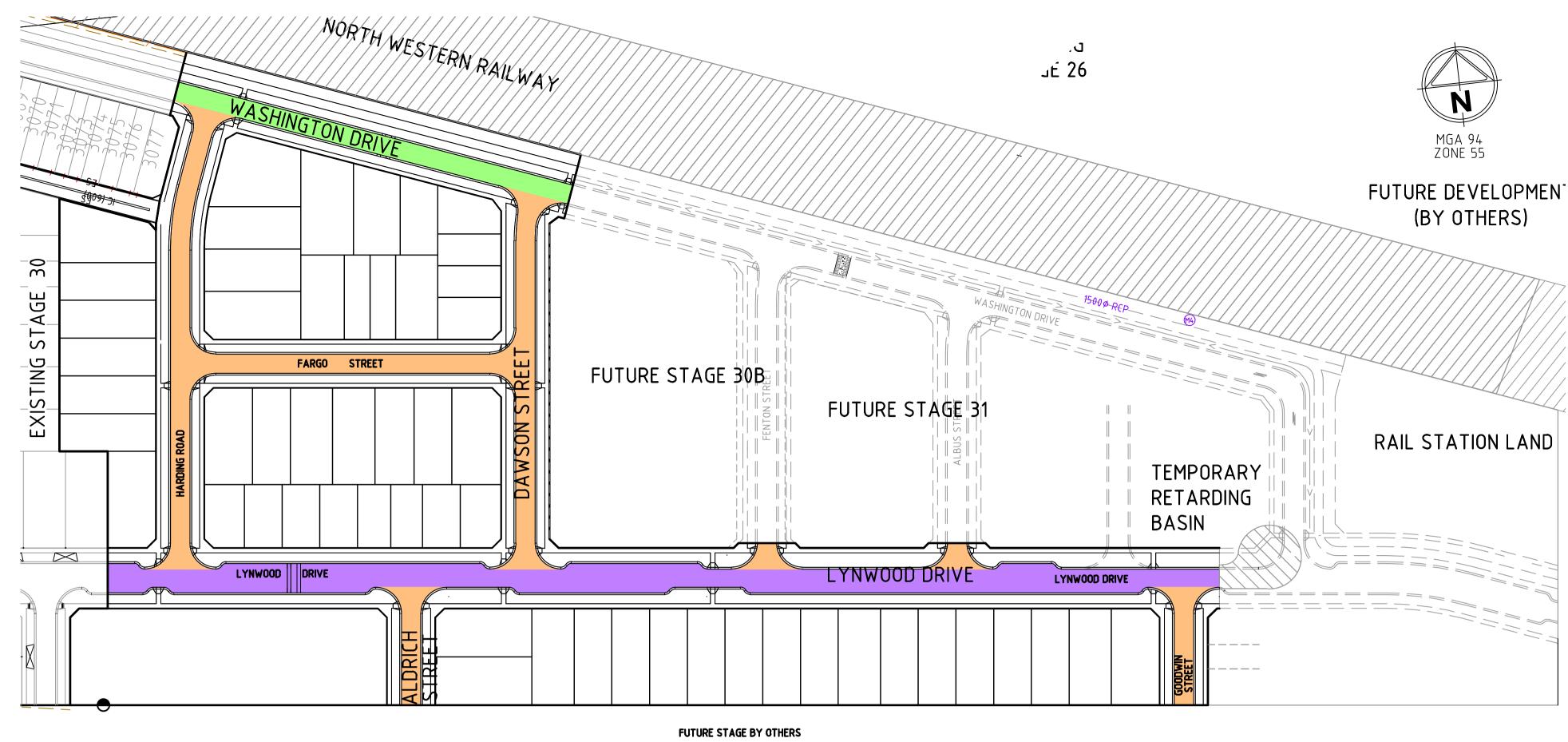
ACCORDANCE WITH MUNICIPALITY STD DRAWINGS.

- 2. ALL KERBS AND KERB & CHANNEL TO HAVE 150mm DEPTH OF CONCRETE BELOW TOP OF PAVEMENT LEVEL.
- 3. B2 INDICATES 600 B2 TYPE KERB AS PER MPA STANDARD DRAWINGS.

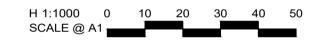


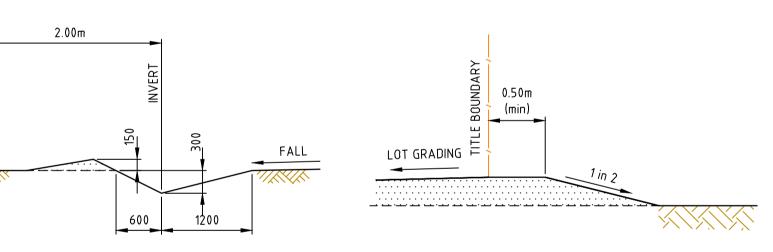
| PAVEMENT LAYER | DESCRIPTION | DEPTH (mm) | DEPTH (mm) | DEPTH (mm) |
|------------------------|--|------------|------------|------------|
| | | Α | В | С |
| ASPHALT WEARING COURSE | SIZE 10mm TYPE N CLASS (CLASS 320 BINDER) | | 30 | 30 |
| | SIZE 14mm TYPE N CLASS (CLASS 320 BINDER) | 40 | | |
| ASPHALT BASE COURSE | SIZE 10mm TYPE N CLASS (CLASS 320 BINDER) | | 30 | 30 |
| | SIZE 14mm TYPE HP CLASS (CLASS A10E BINDER) | 40 | | |
| SAMI | SIZE 10 SAMI SEAL (S18RF, MINIMUM BINDER RATE 1.8L/m²) WITH PRIME | 10 | 10 | 10 |
| BASE COURSE | SIZE 20mm CLASS 2 CRUSHED ROCK OR CLASS CC2 CRUSHED CONCRETE. COMPACTED TO A MINIMUM DENSITY OF 98% (MODIFIED) AS1289, 5.2.1 | 110 | 130 | 130 |
| | UPPER PAVEMENT TOTAL | 200 | 200 | 200 |
| UPPER BASE | SIZE 20 CLASS 3 CRUSHED ROCK OR CLASS CC3 CRUSHED CONCRETE. COMPACTED TO A MINIMUM DENSITY OF 98% (MODIFIED) AS1289, 5.2.1 | 150 | 150 | 150 |
| LOWER BASE | SIZE 20 CLASS 3 CRUSHED ROCK OR CLASS CC3 CRUSHED CONCRETE. COMPACTED TO A MINIMUM DENSITY OF 98% (MODIFIED) AS1289, 5.2.1 | 210 | 170 | |
| | SIZE 20 CLASS 4 CRUSHED ROCK OR CLASS CC4 CRUSHED CONCRETE. COMPACTED TO A MINIMUM DENSITY OF 98% (MODIFIED) AS1289, 5.2.1 | | | 150 |
| CAPPING LAYER | SELECT FILL OR STABILISED CLAY MEETING THE FOLLOWING MATERIAL PROPERTIES: CBR \geq 8%, SWELL \leq 1.5%, PERMEABILITY K \leq 1 X 10-9 m/s. COMPACTED TO A MINIMUM DENSITY OF RATIO 98% (STANDARD) AS1289, 5.1.1 | 150 | 150 | 150 |
| CONSTRUCTION LAYER | SELECT FILL OR STABILISED CLAY MEETING THE FOLLOWING MATERIAL PROPERTIES: CBR ≥ 8%, SWELL ≤ 1.5%, PERMEABILITY K ≤ 1 X 10-9 m/s. COMPACTED TO A MINIMUM DENSITY OF RATIO 98% (STANDARD) AS1289, 5.1.1 | 150 | 150 | 150 |
| | TOTAL PAVEMENT DEPTH | 860 | 820 | 800 |

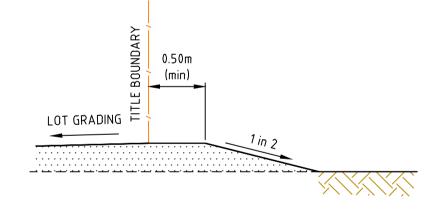
1. SUBGRADE FOR ALL PROFILES TO HAVE A CBR 3.0% (PREPARED CLAY 98% AUSTRALIAN STANDARD COMPACTION)



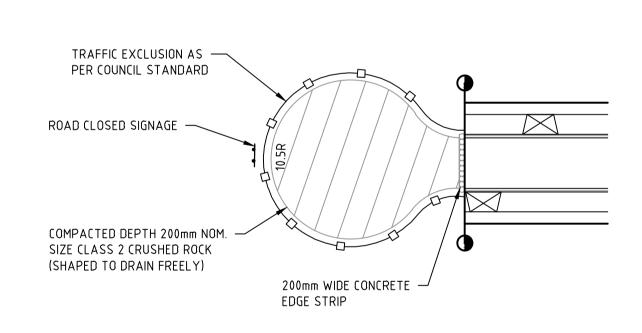
PAVEMENT PLAN



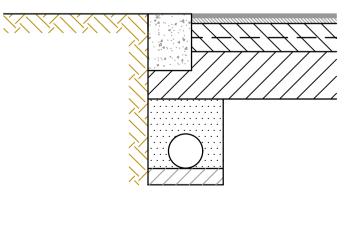




LOT FILLING AT STAGE BOUNDARY

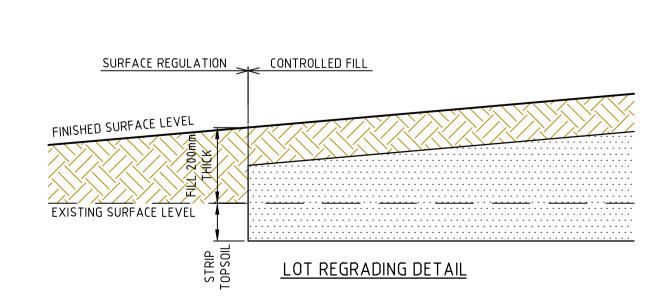


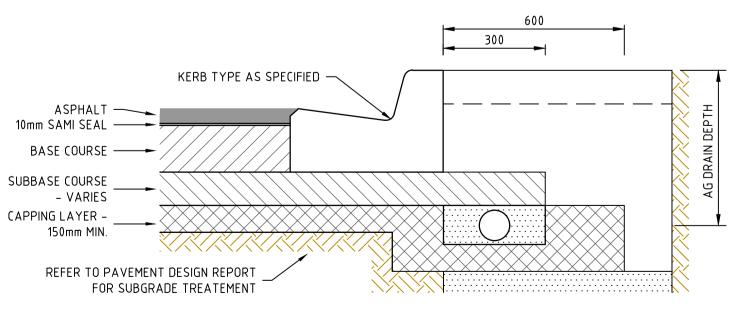
TEMPORARY TURNING AREA DETAIL



TYPICAL CATCH DRAIN SECTION

LIMIT OF WORKS CONCRETE EDGE STRIP & PAVEMENT INTERFACE - DETAIL





TYPICAL PAVEMENT DETAIL

| A C | | | | | Scale |
|--------|---|-------------------|-----|----------|-------|
| 1 | | | | | |
| 1 7 + | | | | | |
| 000 | | | | | |
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ABN 55 050 029 635



G. KOHLMAN Authorised M. READMAN Wel.Co

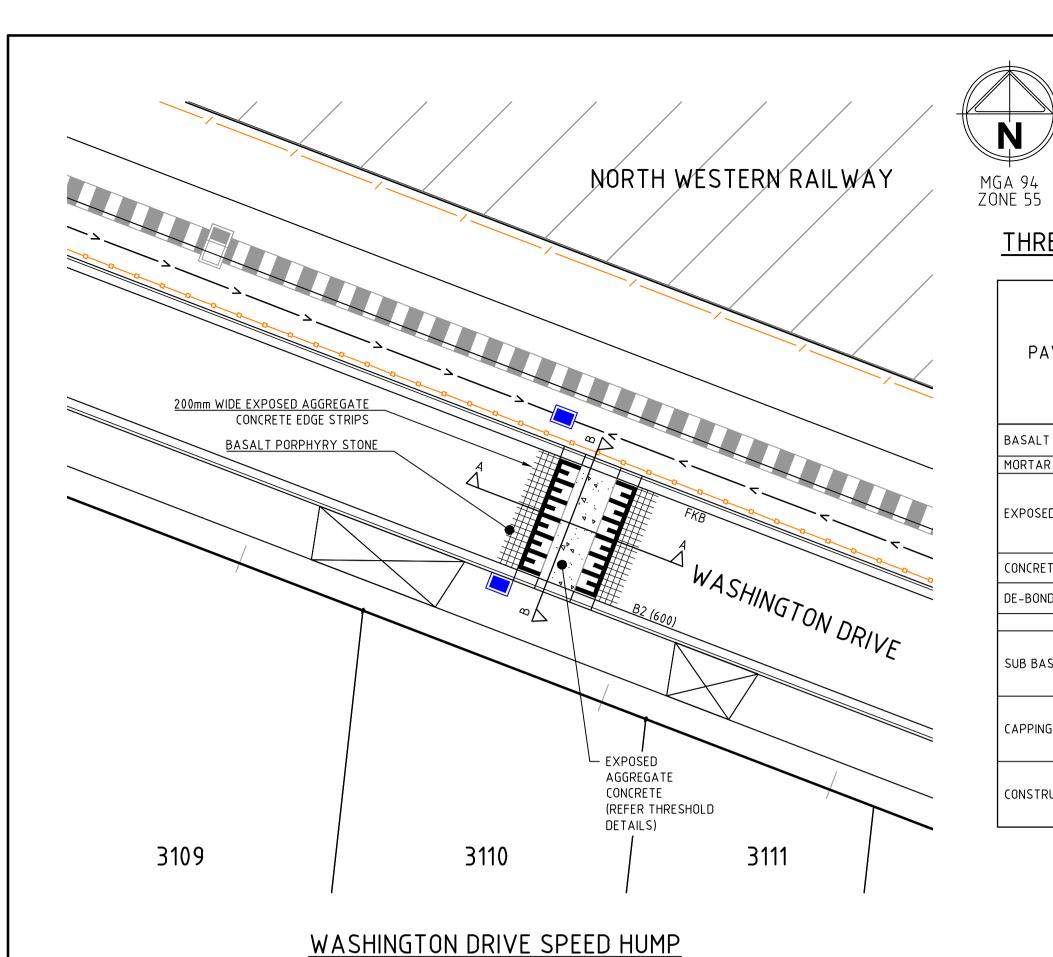
M. MCVICAR FEB 2020

THORNHILL PARK ESTATE STAGE 30A **ROAD AND DRAINAGE PAVEMENT AND TYPICAL DETAILS** MELTON CITY COUNCIL WEL.CO GROUP

PRELIMINARY 306842CR700

Rev | Amendments

M.R 10/01/20 Approved Date



THRESHOLD DETAILS

| | | DEPT | H (mm) |
|-----------------------|--|-------------------|----------------------|
| PAVEMENT LAYER | DESCRIPTION | PORPHYRY STONE | EXPOSED AGGREGATE |
| BASALT PORPHYRY STONE | 90mm X 90mm BASALT PORPHYRY STONE (AS PER PHOTO) 10mm - 15mm MORTAR JOINTS | 60 | - |
| MORTAR BED | GREY COLOURED MORTAR | 45 | - |
| EXPOSED AGGREGATE | KEABLA MIDWAY MINI MIX CONCRETE (AS PER PHOTO) OR 14mm-20mm BLUE METAL (60%), 10mm-14mm QUARTZ (30%), 7mm-10mm YELLOW CHIP / PEBBLE (10%), FINISH = WATER WASHED MEDIUM EXPOSED (2mm). CHARACTERISTIC FLEXURAL STRENGTH = 4.5MPa, SL92 TOP REINFORCEMENT, 40mm COVER | - | 300 |
| CONCRETE BASE COURSE | CHARACTERISTIC FLEXURAL STRENGTH = 4.5MPa, SL92 TOP REINFORCEMENT, 40mm COVER | 195 | - |
| DE-BONDING TREATMENT | BITUMEN SPRAYED SEAL WITH 5mm-7mm AGGREGATE | Υ | Y |
| | UPPER PAVEMENT TOTAL | 300 | 300 |
| SUB BASE | SIZE 20 CLASS 3 CRUSHED ROCK OR CLASS CC3 CRUSHED CONCRETE. COMPACTED TO A MINIMUM DENSITY OF 98% (MODIFIED) AS1289, 5.2.1 | 220 | 220 |
| CAPPING LAYER | SELECT FILL OR STABILISED CLAY MEETING THE FOLLOWING MATERIAL PROPERTIES: CBR ≥ 8%, SWELL ≤ 1.5%, PERMEABILITY K ≤ 1 X 10-9 m/s. COMPACTED TO A MINIMUM DENSITY OF RATIO 98% (STANDARD) AS1289, 5.1.1 | 150 | 150 |
| CONSTRUCTION LAYER | SELECT FILL OR STABILISED CLAY MEETING THE FOLLOWING MATERIAL PROPERTIES: CBR ≥ 8%, SWELL ≤ 1.5%, PERMEABILITY K ≤ 1 X 10-9 m/s. COMPACTED TO A MINIMUM DENSITY OF RATIO 98% (STANDARD) AS1289, 5.1.1 | 150 | 150 |
| | TOTAL PAVEMENT DEPTH | 820 | 820 |

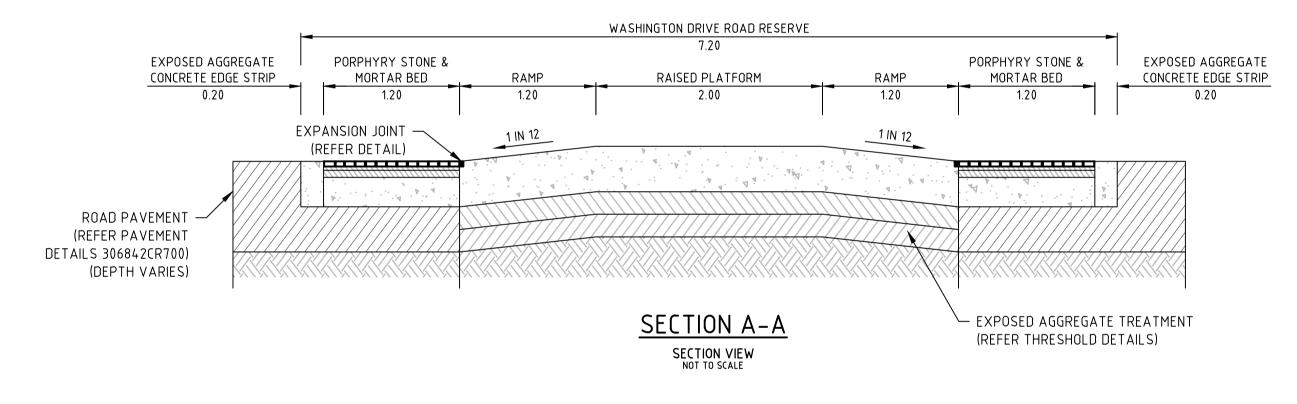


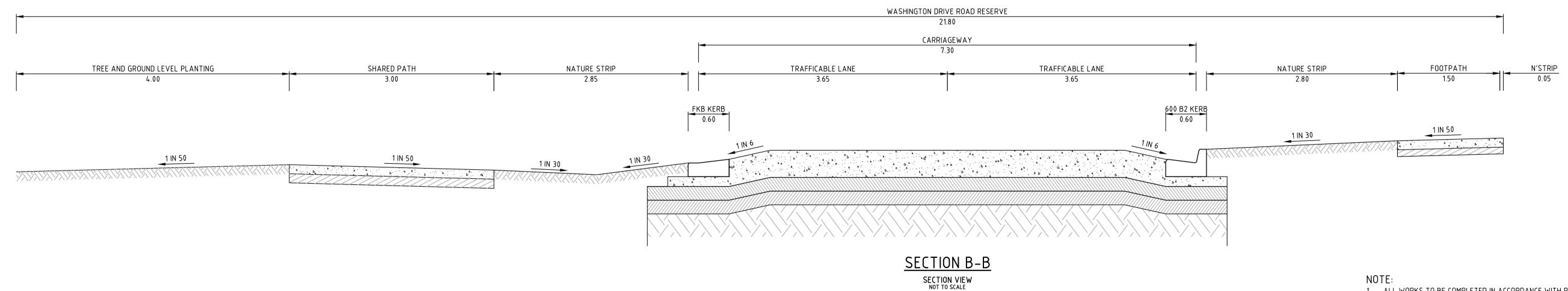
GREY CONCRETE EXPOSED AGGREGATE KEABLA (MIDWAY MINI MIX CONCRETE) OR SIMILAR APPROVED MIX.



BASALT PORPHYRY STONE (90X90mm WITH 10-15mm MORTAR GAP)

NOTE: CONTRACTOR TO PROVIDE 1m SQUARE SAMPLE OF BOTH SURFACES TO SUPER INTENDENT FOR APPROVAL BEFORE CONSTRUCTION WORK CAN COMMENCE





ISSUED TO COUNCIL M.R 08/10/20 ISSUED FOR TENDER M.R 22/09/20 M.R ISSUED TO COUNCIL 31/08/20 ISSUED FOR TENDER M.R. 10/01/20 Approved Date Rev | Amendments

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thornhill

Designed G. KOHLMAN Authorised M. READMAN Wel.Co

M. MCVICAR

FEB 2020

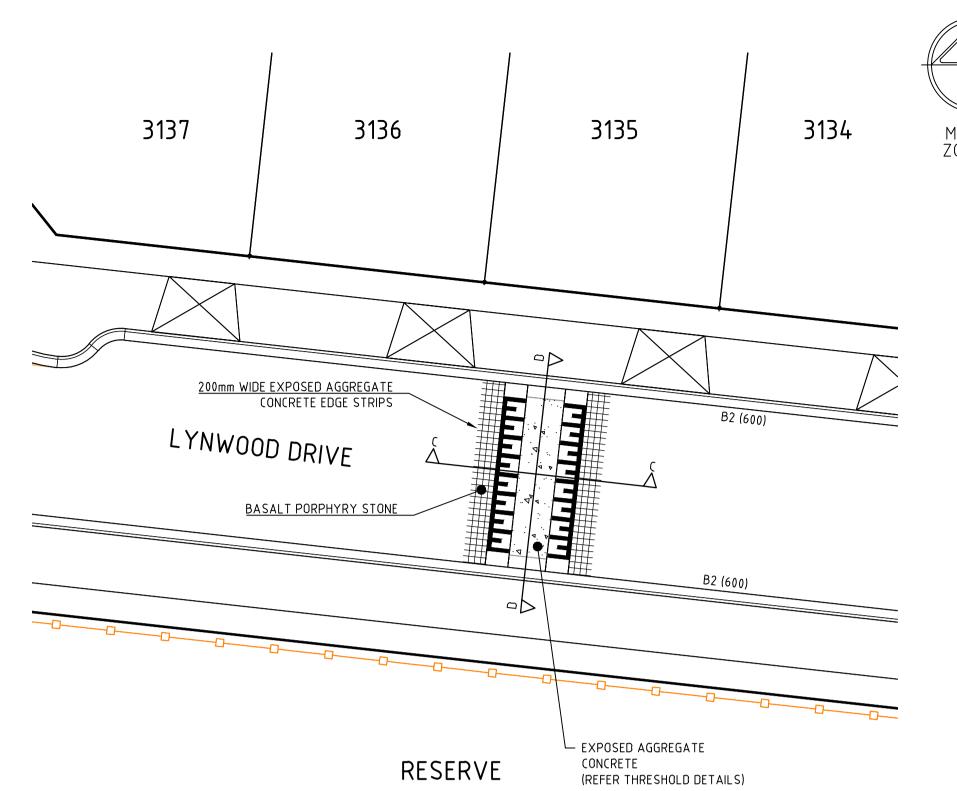
Date

THORNHILL PARK ESTATE STAGE 30A **ROAD AND DRAINAGE WASHINGTON DRIVE SPEED HUMP** MELTON CITY COUNCIL WEL.CO GROUP

RESIDENTIAL STREETS.

PRELIMINARY 306842CR701

ALL WORKS TO BE COMPLETED IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS AND CCAA LITERATURE; OR VIC ROADS STANDARDS FOR NON



MGA 94 ZONE 55

THRESHOLD DETAILS

| | | DEPTI | H (mm) |
|-----------------------|--|-------------------|----------------------|
| PAVEMENT LAYER | DESCRIPTION | PORPHYRY STONE | EXPOSED AGGREGATE |
| BASALT PORPHYRY STONE | 90mm X 90mm BASALT PORPHYRY STONE (AS PER PHOTO) 10mm - 15mm MORTAR JOINTS | 60 | - |
| MORTAR BED | GREY COLOURED MORTAR | 45 | - |
| EXPOSED AGGREGATE | KEABLA MIDWAY MINI MIX CONCRETE (AS PER PHOTO) OR 14mm-20mm BLUE METAL (60%), 10mm-14mm QUARTZ (30%), 7mm-10mm YELLOW CHIP / PEBBLE (10%), FINISH = WATER WASHED MEDIUM EXPOSED (2mm). CHARACTERISTIC FLEXURAL STRENGTH = 4.5MPa, SL92 TOP REINFORCEMENT, 40mm COVER | - | 300 |
| CONCRETE BASE COURSE | CHARACTERISTIC FLEXURAL STRENGTH = 4.5MPa, SL92 TOP REINFORCEMENT, 40mm COVER | 195 | - |
| DE-BONDING TREATMENT | BITUMEN SPRAYED SEAL WITH 5mm-7mm AGGREGATE | Υ | Y |
| | UPPER PAVEMENT TOTAL | 300 | 300 |
| SUB BASE | SIZE 20 CLASS 3 CRUSHED ROCK OR CLASS CC3 CRUSHED CONCRETE. COMPACTED TO A MINIMUM DENSITY OF 98% (MODIFIED) AS1289, 5.2.1 | 260 | 260 |
| CAPPING LAYER | SELECT FILL OR STABILISED CLAY MEETING THE FOLLOWING MATERIAL PROPERTIES: CBR ≥ 8%, SWELL ≤ 1.5%, PERMEABILITY K ≤ 1 X 10-9 m/s. COMPACTED TO A MINIMUM DENSITY OF RATIO 98% (STANDARD) AS1289, 5.1.1 | 150 | 150 |
| CONSTRUCTION LAYER | SELECT FILL OR STABILISED CLAY MEETING THE FOLLOWING MATERIAL PROPERTIES: CBR ≥ 8%, SWELL ≤ 1.5%, PERMEABILITY K ≤ 1 X 10-9 m/s. COMPACTED TO A MINIMUM DENSITY OF RATIO 98% (STANDARD) AS1289, 5.1.1 | 150 | 150 |
| | TOTAL PAVEMENT DEPTH | 860 | 860 |



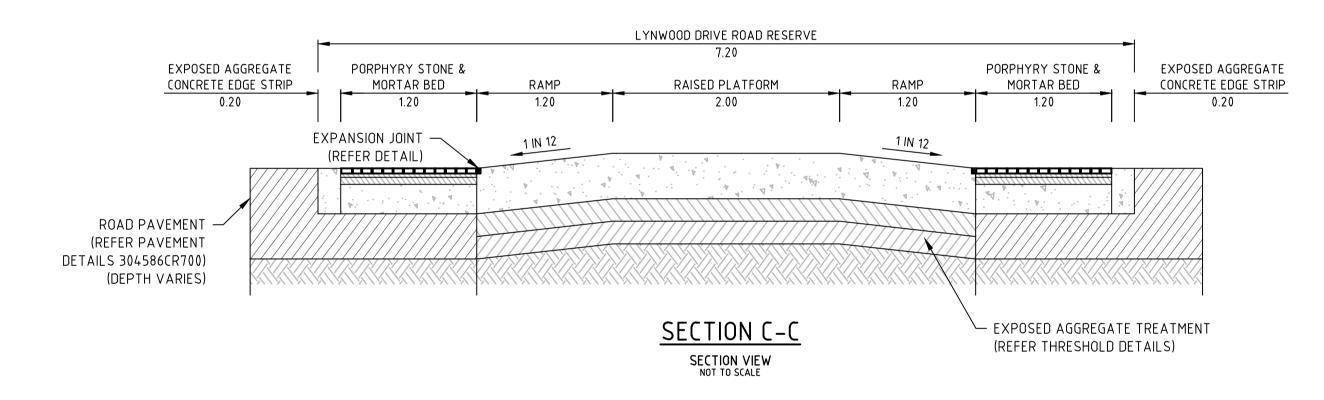
GREY CONCRETE EXPOSED AGGREGATE KEABLA (MIDWAY MINI MIX CONCRETE) OR SIMILAR APPROVED MIX.

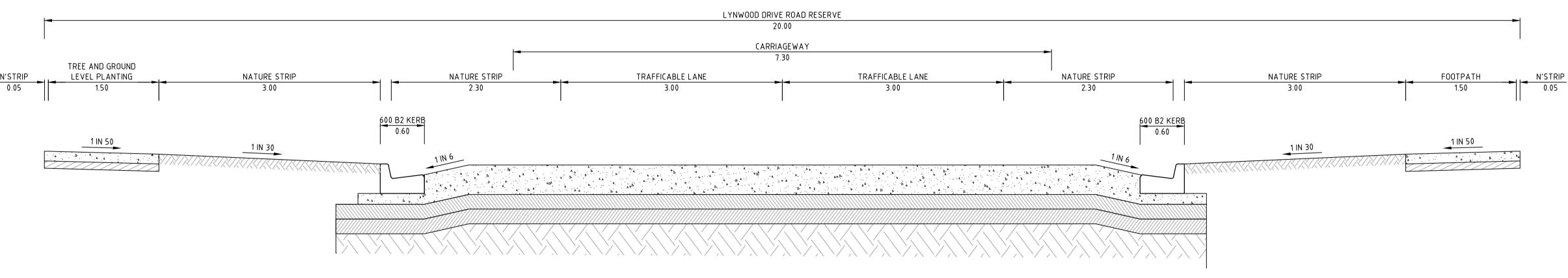


BASALT PORPHYRY STONE (90X90mm WITH 10-15mm MORTAR GAP)

CONTRACTOR TO PROVIDE 1m SQUARE SAMPLE OF BOTH SURFACES TO SUPER INTENDENT FOR APPROVAL BEFORE CONSTRUCTION WORK CAN COMMENCE







SECTION D-D SECTION VIEW
NOT TO SCALE

 ALL WORKS TO BE COMPLETED IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS AND CCAA LITERATURE; OR VIC ROADS STANDARDS FOR NON RESIDENTIAL STREETS.

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| В | ISSUED TO COUNCIL | M.R | 31/08/20 | |
| A | ISSUED FOR TENDER | M.R. | 10/01/20 | |
| ≝ Rev | Amendments | Approved | Date | |



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ABN 55 050 029 635



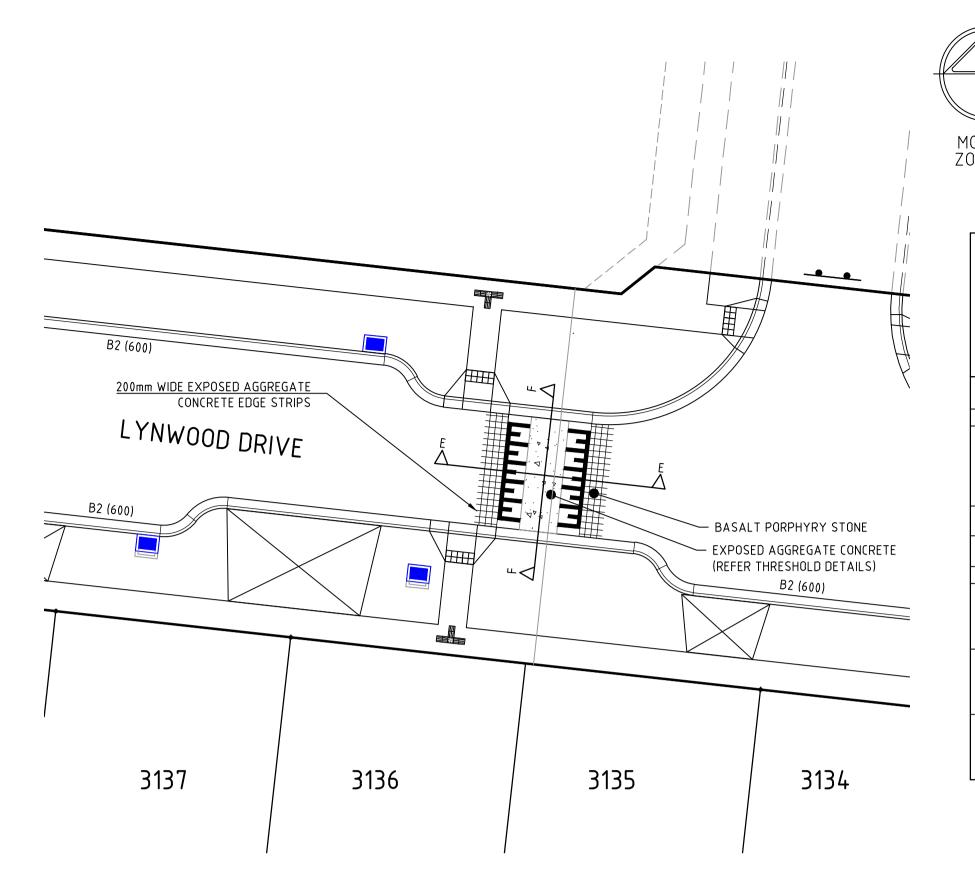
G. KOHLMAN Authorised M. READMAN Wel.Co

M. MCVICAR

FEB 2020

Date

THORNHILL PARK ESTATE STAGE 30A **ROAD AND DRAINAGE** LYNWOOD DRIVE SPEED HUMP - SHEET 1 OF 2 MELTON CITY COUNCIL WEL.CO GROUP



LYNWOOD DRIVE SPEED HUMP



THRESHOLD DETAILS

| | | DEPTH (mm) | |
|-----------------------|--|-------------------|----------------------|
| PAVEMENT LAYER | DESCRIPTION | PORPHYRY STONE | EXPOSED AGGREGATE |
| BASALT PORPHYRY STONE | 90mm X 90mm BASALT PORPHYRY STONE (AS PER PHOTO) 10mm - 15mm MORTAR JOINTS | 60 | - |
| MORTAR BED | GREY COLOURED MORTAR | 45 | - |
| EXPOSED AGGREGATE | KEABLA MIDWAY MINI MIX CONCRETE (AS PER PHOTO) OR 14mm-20mm BLUE METAL (60%), 10mm-14mm QUARTZ (30%), 7mm-10mm YELLOW CHIP / PEBBLE (10%), FINISH = WATER WASHED MEDIUM EXPOSED (2mm). CHARACTERISTIC FLEXURAL STRENGTH = 4.5MPa, SL92 TOP REINFORCEMENT, 40mm COVER | - | 300 |
| CONCRETE BASE COURSE | CHARACTERISTIC FLEXURAL STRENGTH = 4.5MPa, SL92 TOP REINFORCEMENT, 40mm COVER | 195 | - |
| DE-BONDING TREATMENT | BITUMEN SPRAYED SEAL WITH 5mm-7mm AGGREGATE | Y | Y |
| | UPPER PAVEMENT TOTAL | 300 | 300 |
| SUB BASE | SIZE 20 CLASS 3 CRUSHED ROCK OR CLASS CC3 CRUSHED CONCRETE. COMPACTED TO A MINIMUM DENSITY OF 98% (MODIFIED) AS1289, 5.2.1 | 260 | 260 |
| CAPPING LAYER | SELECT FILL OR STABILISED CLAY MEETING THE FOLLOWING MATERIAL PROPERTIES: CBR ≥ 8%, SWELL ≤ 1.5%, PERMEABILITY K ≤ 1 X 10-9 m/s. COMPACTED TO A MINIMUM DENSITY OF RATIO 98% (STANDARD) AS1289, 5.1.1 | 150 | 150 |
| CONSTRUCTION LAYER | SELECT FILL OR STABILISED CLAY MEETING THE FOLLOWING MATERIAL PROPERTIES: CBR ≥ 8%, SWELL ≤ 1.5%, PERMEABILITY K ≤ 1 X 10-9 m/s. COMPACTED TO A MINIMUM DENSITY OF RATIO 98% (STANDARD) AS1289, 5.1.1 | 150 | 150 |
| | TOTAL PAVEMENT DEPTH | 860 | 860 |

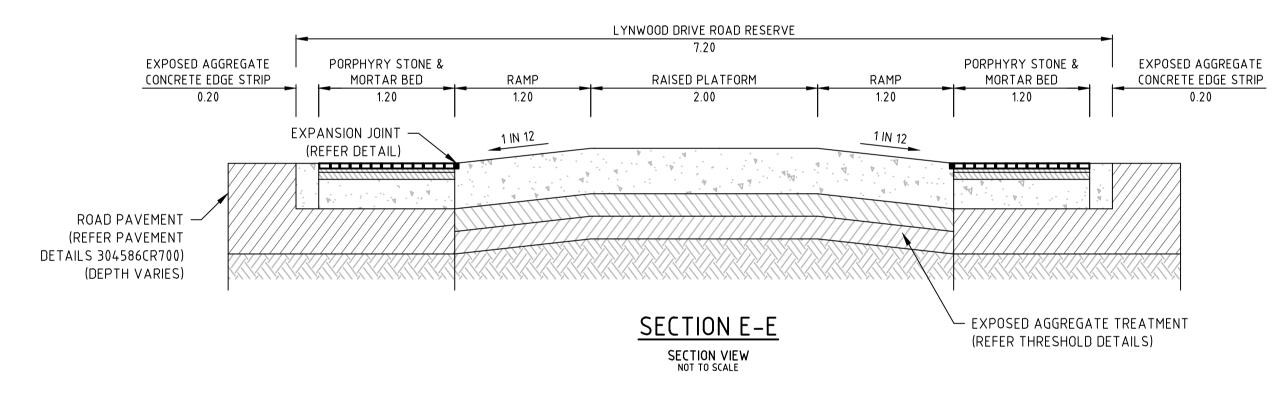


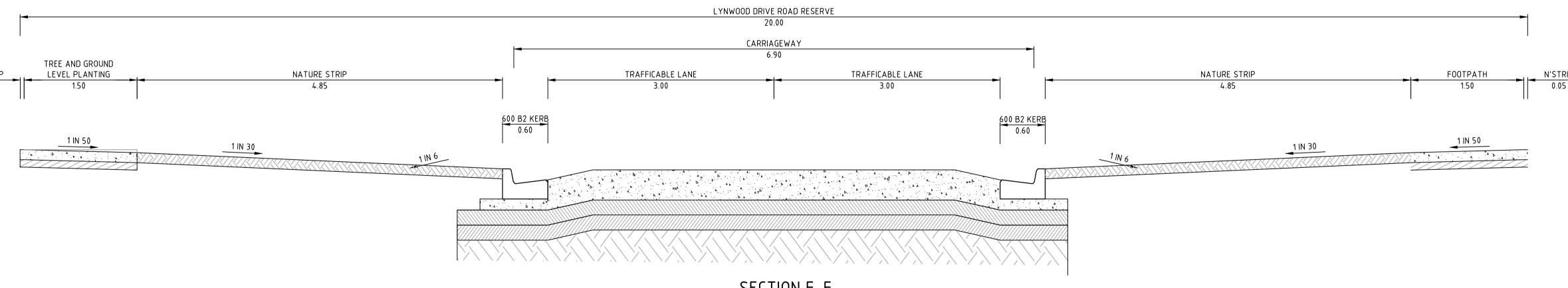
GREY CONCRETE EXPOSED AGGREGATE KEABLA (MIDWAY MINI MIX CONCRETE) OR SIMILAR APPROVED MIX.



BASALT PORPHYRY STONE (90X90mm WITH 10-15mm MORTAR GAP)

NOTE: CONTRACTOR TO PROVIDE 1m SQUARE SAMPLE OF BOTH SURFACES TO SUPER INTENDENT FOR APPROVAL BEFORE CONSTRUCTION WORK CAN COMMENCE





SECTION F-F SECTION VIEW
NOT TO SCALE

 ALL WORKS TO BE COMPLETED IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS AND CCAA LITERATURE; OR VIC ROADS STANDARDS FOR NON RESIDENTIAL STREETS.

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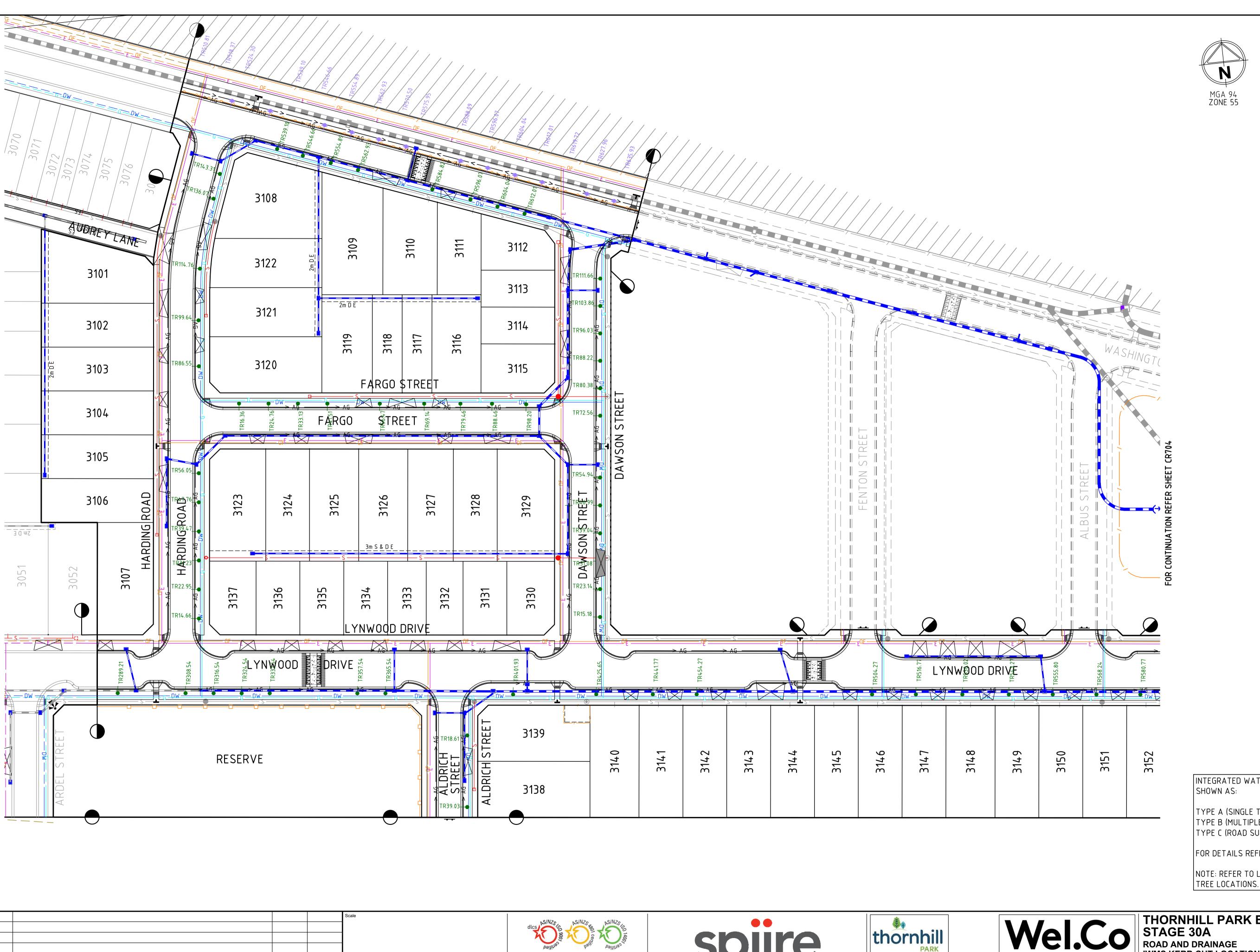


Designed

G. KOHLMAN M. MCVICAR Date Authorised FEB 2020 M. READMAN

Wel.Co

THORNHILL PARK ESTATE STAGE 30A **ROAD AND DRAINAGE** LYNWOOD DRIVE SPEED HUMP - SHEET 2 OF 2 MELTON CITY COUNCIL WEL.CO GROUP





INTEGRATED WATER MANAGEMENT SYSTEM SHOWN AS:

TYPE A (SINGLE TREE)

TYPE B (MULTIPLE TREES) TYPE C (ROAD SURFACE RUN OFF SWALE)

FOR DETAILS REFER DRAWING CR701 & CR702.

NOTE: REFER TO LANDSCAPE PLANS FOR ALL

ISSUED TO COUNCIL M.R 08/10/20 ISSUED FOR TENDER M.R 22/09/20 ISSUED TO COUNCIL M.R 31/08/20 ISSUED FOR TENDER M.R. 10/01/20 Approved Date Rev | Amendments



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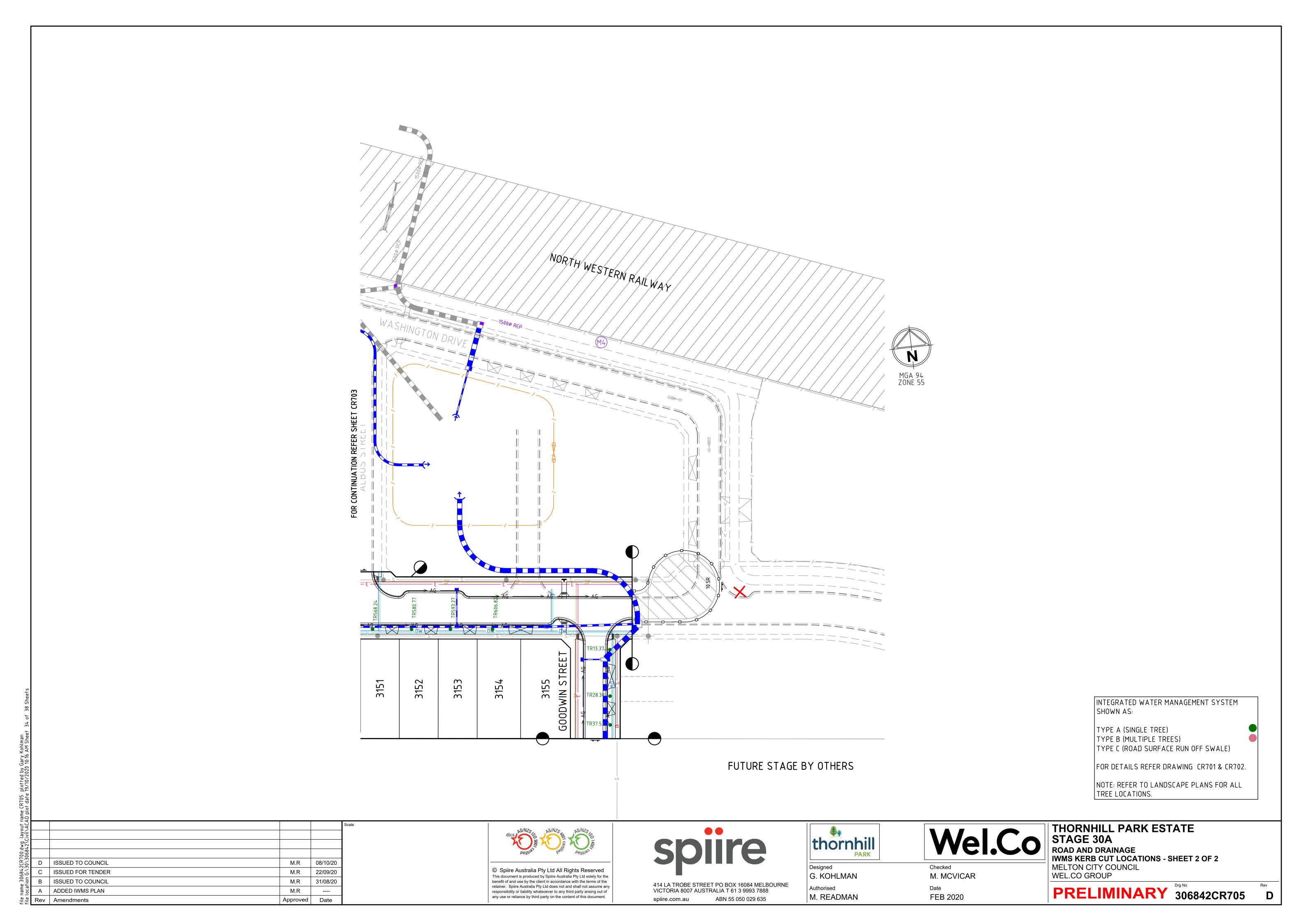


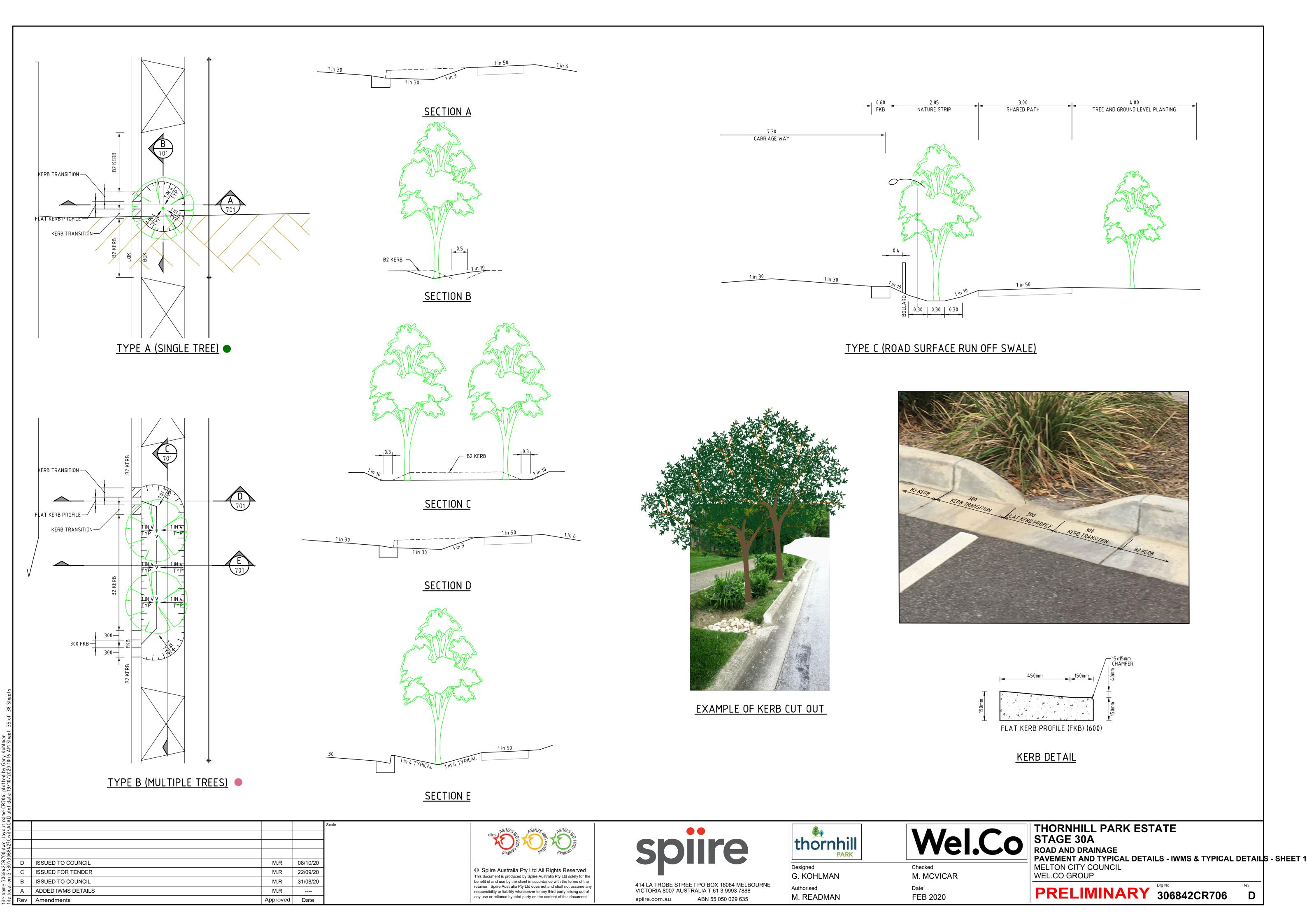
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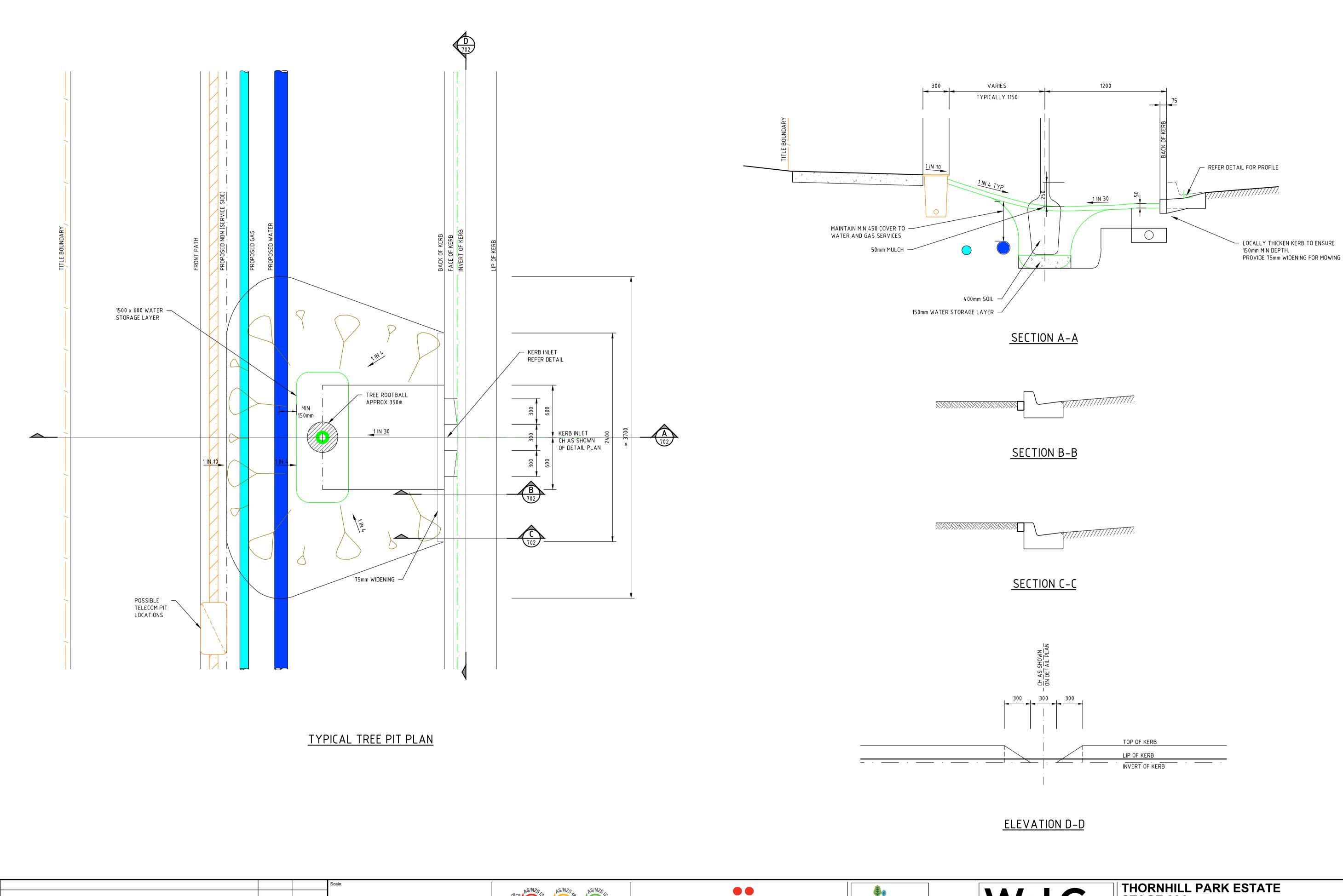


Designed G. KOHLMAN M. MCVICAR Authorised FEB 2020 M. READMAN

THORNHILL PARK ESTATE STAGE 30A **ROAD AND DRAINAGE** IWMS KERB CUT LOCATIONS - SHEET 1 OF 2 MELTON CITY COUNCIL WEL.CO GROUP







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Designed
G. KOHLMAN
Authorised
M. READMAN

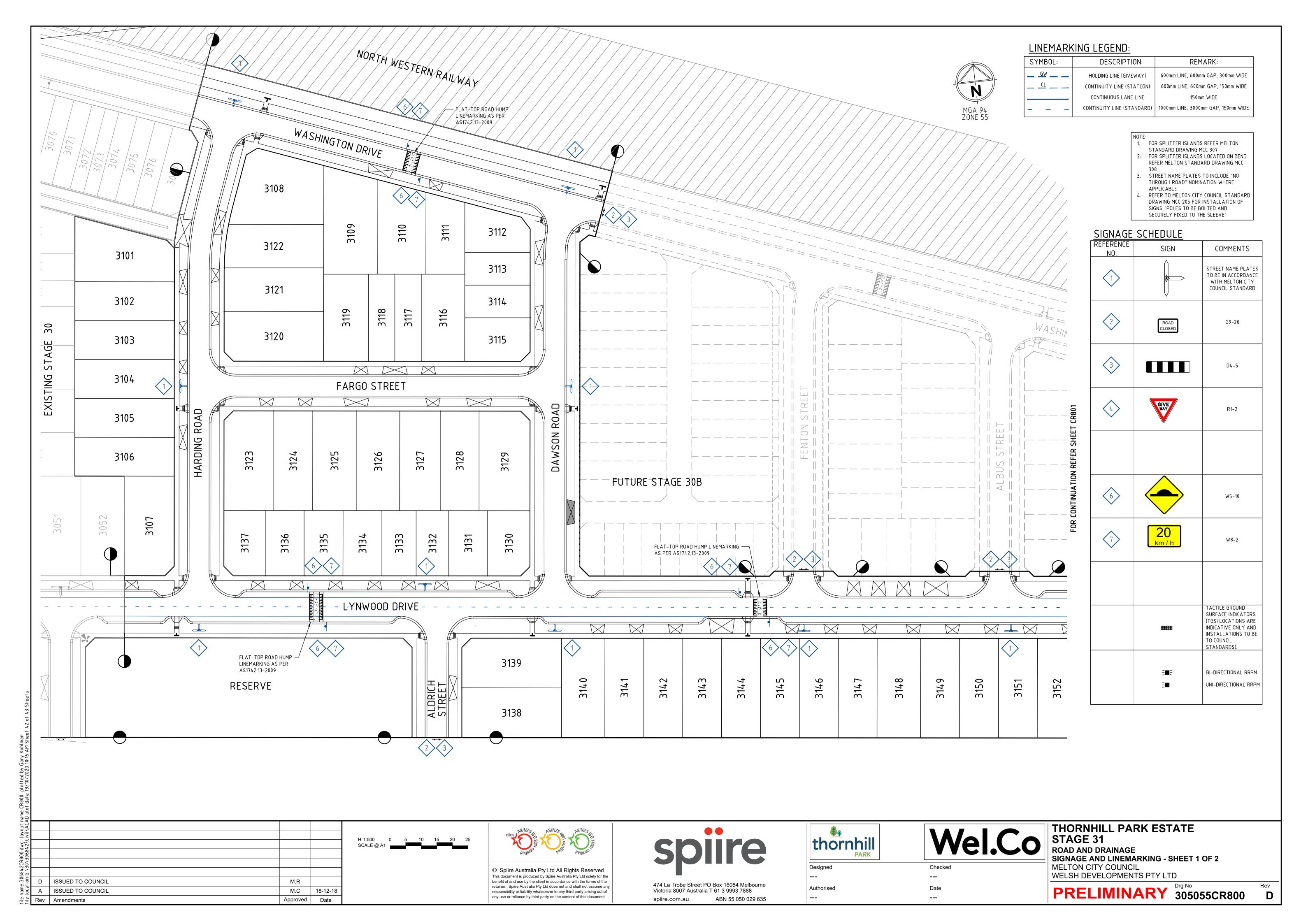
Wel.Co

Checked
M. MCVICAR

FEB 2020

THORNHILL PARK ESTATE
STAGE 30A
ROAD AND DRAINAGE
PAVEMENT AND TYPICAL DETAILS - IWMS & TYPICAL DETAILS - SHEET 2
MELTON CITY COUNCIL
WEL.CO GROUP

PRELIMINARY 306842CR707 D

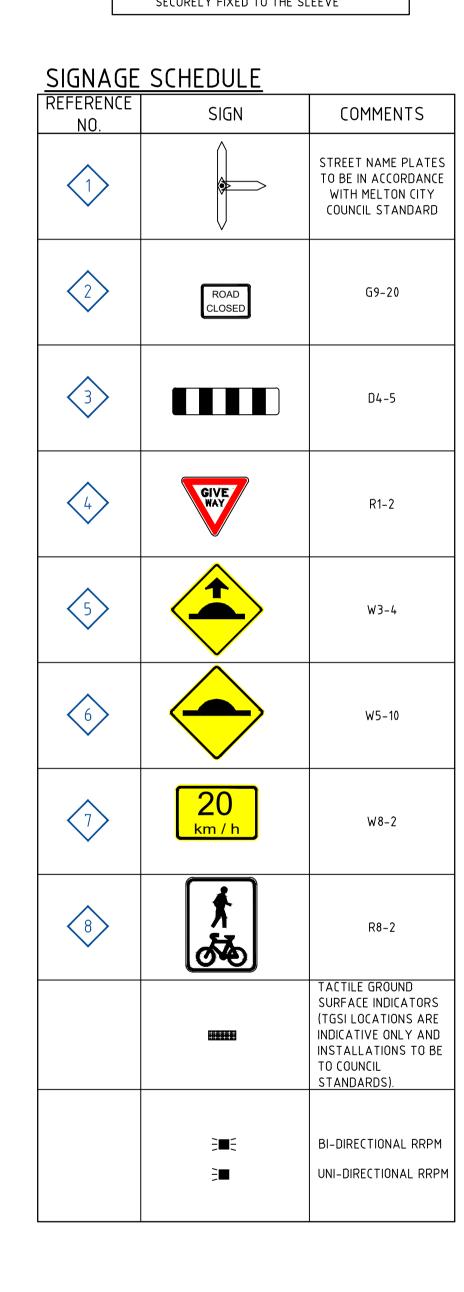


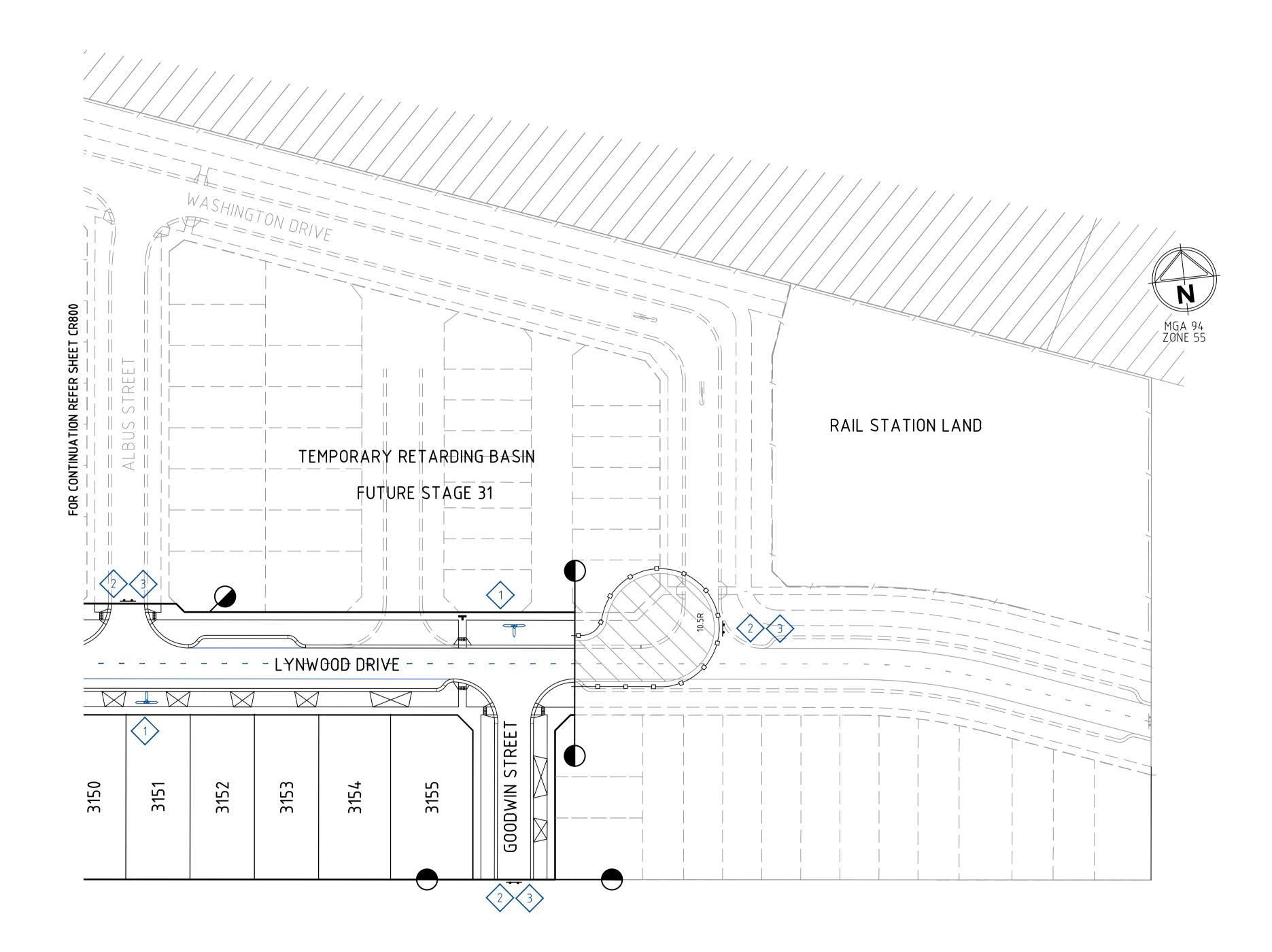
LINEMARKING LEGEND:

| SYMB0L: | DESCRIPTION: | REMARK: |
|------------|----------------------------|-------------------------------------|
| GW | HOLDING LINE (GIVEWAY) | 600mm LINE, 600mm GAP, 300mm WIDE |
| <u> (r</u> | CONTINUITY LINE (STATCON) | 600mm LINE, 600mm GAP, 150mm WIDE |
| | CONTINUOUS LANE LINE | 150mm WIDE |
| | CONTINUITY LINE (STANDARD) | 1000mm LINE, 3000mm GAP, 150mm WIDE |

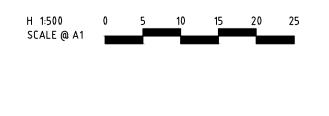
FOR SPLITTER ISLANDS REFER MELTON

- STANDARD DRAWING MCC 307 2. FOR SPLITTER ISLANDS LOCATED ON BEND REFER MELTON STANDARD DRAWING MCC
- 3. STREET NAME PLATES TO INCLUDE "NO THROUGH ROAD" NOMINATION WHERE APPLICABLE
- REFER TO MELTON CITY COUNCIL STANDARD DRAWING MCC 205 FOR INSTALLATION OF SIGNS. 'POLES TO BE BOLTED AND SECURELY FIXED TO THE SLEEVE'





| D | ISSUED TO COUNCIL | M.R | 08/10/20 |
|-----|-------------------|----------|----------|
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| Rev | Amendments | Approved | Date |





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| THORNHILL PARK ESTATE |
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| STAGE 30A |
| ROAD AND DRAINAGE |

SIGNAGE AND LINEMARKING - SHEET 2 OF 2
MELTON CITY COUNCIL
WEL.CO GROUP