

file name: 304015CR100.dwg, layout: name: G5000, plotted by: Kiera Ayres, file location: \\spirena.melb\data\Draws\304015\304015 Civil\A20.dwg, date: 05/08/2021 12:56 PM, sheet: 1 of 17, sheets

HUME CITY COUNCIL GENERAL NOTES:

- ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH V.P.A. AND HUME CITY COUNCIL STANDARD DRAWINGS, SPECIFICATIONS, APPROVED PLANS AND TO THE SATISFACTION OF THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE.
- COUNCIL TO BE NOTIFIED SEVEN (7) CLEAR WORKING DAYS PRIOR TO THE COMMENCEMENT OF WORKS WITH A PRE-COMMENCEMENT MEETING BEING HELD BETWEEN HUME CITY COUNCIL, THE CONSULTANT AND THE CONTRACTOR BEFORE WORKS COMMENCE. A SITE MANAGEMENT PLAN IS TO BE SUBMITTED PRIOR TO COMMENCEMENT OF WORKS AND PRIOR TO AN ONSITE PRE-COMMENCEMENT MEETING.
- PRIOR TO COMMENCEMENT OF THE WORKS, THE CONTRACTOR SHALL PROVIDE THE FOLLOWING INFORMATION:
 - SOURCE OF QUARRY MATERIAL.
 - N.A.T.A. APPROVED TESTS RESULTS FOR THE F.C.R. THAT IS TO BE USED.
 - IF THE SOURCE OF THE QUARRY MATERIAL IS CHANGED DURING THE COURSE OF THE WORKS, THEN NEW TEST RESULTS SHALL BE PROVIDED.
- PRIOR TO COMMENCEMENT OF WORKS ON SITE, THE CONTRACTOR MUST ENSURE THAT ALL MATTERS RELATING TO THE OCCUPATIONAL HEALTH AND SAFETY ACT 2004 AND O.H.S. REGULATIONS 2007 HAVE BEEN AND WILL BE COMPLIED WITH.
- ON COMMENCEMENT OF CONSTRUCTION WORKS, THE CONTRACTOR MUST COMPLY WITH THE RECOMMENDATIONS OF THE ENVIRONMENT PROTECTION AUTHORITY PUBLICATION "CONSTRUCTION TECHNIQUES FOR SEDIMENT POLLUTION CONTROL." APPROPRIATE SILTATION CONTROL IS TO BE MAINTAINED THROUGHOUT THE CONSTRUCTION AND MAINTENANCE PERIOD OF THE WORKS.
- THE DISPOSAL SITE FOR SPOIL REMOVAL FROM SITE AND TRUCK ROUTE IS TO BE SUBMITTED TO AND APPROVED BY THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE IN WRITING PRIOR TO THE COMMENCEMENT OF ANY WORKS.
- WHERE WORKS ARE IN THE VICINITY OF EXISTING SERVICES, THESE SERVICES ARE TO BE LOCATED AND EXPOSED/PROVED PRIOR TO COMMENCEMENT OF WORKS, AND THE RELEVANT AUTHORITIES NOTIFIED SEVEN (7) CLEAR DAYS PRIOR TO THE COMMENCEMENT OF THE WORKS.
- ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
- ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM (A.H.D.).
- ALL CO-ORDINATES ARE TO MAP GRID OF AUSTRALIA (M.G.A.).
- THE CONTRACTOR MUST ARRANGE THE REQUISITE INSPECTIONS OF THE WORKS WITH THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE AS PER THE HOLD POINTS IN THE V.P.A. MANUAL AND HUME CITY COUNCIL SPECIFICATIONS.
- FILL AREAS TO BE STRIPPED OF TOPSOIL, FILLED AND TOPSOIL REPLACED TO OBTAIN FINAL FILL LEVELS AS SHOWN ON PLAN. FILLING IS TO BE CLEAN CLAY COMPACTED TO A DENSITY NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE STANDARD COMPACTION TEST IN ACCORDANCE WITH A.S.1289.5.1.1-2003.
- FILLING TO COMPLY WITH A.S.3798-2007, LEVEL 1 UNLESS SPECIFIED OTHERWISE.
- THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL IMPORTED FILL MATERIAL, INCLUDING TOPSOIL, SATISFIES THE DESCRIPTION FOR CLEAN FILL MATERIAL IN EPA BULLETIN PUBLICATION NO 4.48 (SEPT '95) AND SUBSEQUENT REVISIONS. THE CONTRACTOR SHALL IF REQUIRED PROVIDE VERIFICATION INCLUDING TEST CERTIFICATES TO THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE.
- WHERE, AS A CONDITION OF THE PLANNING PERMIT OR AS A RESULT OF THE PRE-CONSTRUCTION MEETING, FENCING OF AREAS CONTAINING TREES, NATIVE GRASSES AND SHRUBS IS REQUIRED, A THREE STRAND STAR PICKET AND WIRE FENCE SHALL BE CONSTRUCTED.
- NO TREE OR NATIVE VEGETATION IS TO BE DISTURBED OR REMOVED WITHOUT PRIOR APPROVAL FROM COUNCIL'S SUSTAINABLE ENVIRONMENT DEPARTMENT. ANY TREES REMOVED, VEGETATION OR OTHER MATERIALS ARE NOT TO BE BURNED ON SITE.
- BEFORE COMMENCING WORK ON TRENCHES IN EXCESS OF 15m DEEP, NOTICE OF SUCH PROPOSAL IS TO BE FORWARDED BY THE CONTRACTOR TO WORKSAFE VICTORIA.
- THE CONTRACTOR IS TO OBTAIN A BUILDING PERMIT FOR ANY STRUCTURES / FENCES AND FOR ANY RETAINING WALLS OVER 1.0m IN HEIGHT.
- ANY INFRASTRUCTURE DAMAGE DURING THE DEFECTS LIABILITY PERIOD IS THE RESPONSIBILITY OF THE DEVELOPER OR HIS REPRESENTATIVE AND IS TO BE REINSTATED TO THE SATISFACTION OF THE CHIEF EXECUTIVE OFFICER OR HIS REPRESENTATIVE.
- PRIOR TO STATEMENT OF COMPLIANCE ALL DISTURBED AREAS (INCLUDING NATURE STRIPS, BATTERS, ALLOTMENTS WITH GRADES OF 1:5 AND GREATER, AND RESERVES) ARE TO BE REINSTATED TO A CLEAN, TIDY CONDITION, TOP DRESSED (100MM LOAMY TOP SOIL FREE OF RUBBISH, DEBRIS, CLUMPS, SODS AND CLAY LUMPS), LIGHTLY COMPACTED AND HYDRO MULCHED.
HYDROMULCH AND SEED MIX TO BE:
 - 40KG/HA KIKUYU
 - 200KG/HA TURF TYPE PERENNIAL RYE
 - 100KG/HA CREEPING RED FESCUE
 - 1500KG/HA OF CELLULOSE FIBRE
- SOIL BINDER, SPECIFICALLY MANUFACTURED FOR HYDROMULCHING, USED AT MANUFACTURERS RECOMMENDED RATES (E.G. ORGANIC GAUR TACKIFIERS @ 20 - 30 KG/HA, BASED ON, SITE CONDITIONS).
- NOTE: BITUMEN BINDERS ARE NOT ACCEPTED BY COUNCIL. GRASS IS TO BE ESTABLISHED PRIOR TO THE END OF THE MAINTENANCE PERIOD, UNLESS OTHERWISE AGREED IN WRITING.
- FOOTPATHS ARE TO BE 50mm OFFSET FROM TITLE BOUNDARIES UNLESS NOTED OTHERWISE. VEHICLE CROSSING ALIGNMENTS ARE GENERALLY TO BE PARALLEL TO THE SIDE BOUNDARY.
- ALL NEW CONCRETE WORKS SHALL BE JOINED INTO ABUTTING EXISTING CONCRETE WITH 450mm LONG Y20 DOWEL BARS @ 600 CENTRES, UNLESS OTHERWISE SPECIFIED.
- ANY EXPOSED AGGREGATE CONCRETE WORKS TO BE ACHIEVED BY SAND-BLASTING ONLY. WASHING AGGREGATE OFF WITH WATER IS NOT PERMITTED.
- ALL SERVICE CONDUITS TRENCHES UNDER ROAD PAVEMENTS ARE TO BE BACKFILLED WITH 20mm 3% CEMENT TREATED CLASS 3 CRUSHED ROCK COMPACTED TO A DENSITY NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE MODIFIED COMPACTION TEST IN ACCORDANCE WITH A.S.1289.5.2.1-2003. ALL SERVICE CONDUITS TRENCHES UNDER FOOTPATH, VEHICULAR CROSSINGS, PARKING BAYS AND WITHIN 750mm OF PARKING BAYS TO BE BACKFILLED WITH CLASS 3 CRUSHED ROCK.
- ALL STORMWATER DRAINS ARE TO BE CLASS 2 R.C. OR RIGID F.R.C PIPES WITH ADCOL FLEXIBLE COLLARS UNLESS NOTED OTHERWISE. ALL PIPES UP TO AND INCLUDING 750mm DIAMETER ARE TO BE RUBBER RING JOINTED. INTERLOCKING / FLUSH JOINTS WITH EXTERNAL BANDS CAN ONLY BE USED ON PIPE SIZES OVER 750mm DIAMETER.
- WHERE NEW ASPHALT, CONCRETE KERB & CHANNEL, PATHS AND DRIVEWAYS MATCH INTO EXISTING, THE EXISTING SURFACE IS TO BE SAW CUT AND MATCHED NEATLY.
- ALL REDUNDANT ASSETS ARE TO BE REMOVED AND DISPOSED OFF SITE.
- ALL TREES AND SHRUBS ARE TO BE RETAINED UNLESS OTHERWISE SHOWN OR DIRECTED BY THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE.
- AT THE COMPLETION OF ALL WORKS, ALL RUBBISH, DEBRIS AND SURPLUS SPOIL SHALL BE REMOVED AND THE SITE SHALL BE CLEARED TO THE SATISFACTION OF THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE.
- ALL DRAINS BEHIND KERB AND CHANNEL SHALL BE BACKFILLED TO MATCH PAVEMENT SUBGRADE LEVEL WITH 20mm CLASS 3 F.C.R. COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE MODIFIED COMPACTION TEST IN ACCORDANCE WITH A.S. 1289.5.2.1-2003. ALL DRAINS, SEWERS, GAS & WATER MAINS LAID THROUGH THE ROAD PAVEMENT (EXCEPT CONDUITS) ARE TO BE BACKFILLED WITH 20mm CLASS 2 FCR COMPACTED TO 98% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE MODIFIED COMPACTION TEST IN ACCORDANCE WITH A.S.1289.5.2.1-2003.
- PAVEMENT DEPTH SPECIFIED IS A MINIMUM DEPTH AND MAY BE VARIED BY THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE. SOFT SPOTS SHALL BE EXCAVATED TO A PROOF ROLLED BASE AND BACKFILLED WITH APPROVED MATERIAL COMPACTED IN 150mm LAYERS TO ACHIEVE TO A DENSITY NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE STANDARD COMPACTION TEST IN ACCORDANCE WITH A.S.1289.5.11-2003.
- ALL EXISTING ASSETS AFFECTED BY THE WORKS, E.G. SIGNS, VEHICULAR CROSSINGS, FOOTPATHS, KERB AND LINEMARKING SHALL BE REINSTATED BY THE CONTRACTOR PRIOR TO THE COMPLETION OF THE WORKS TO THE SATISFACTION OF THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE.
- PRIOR TO THE COMPLETION OF THE WORKS ALL FIRE HYDRANTS ARE TO BE MARKED IN ACCORDANCE WITH "IDENTIFICATION OF STREET HYDRANTS FOR FIREFIGHTING PURPOSES" PUBLICATION (DEVELOPED BY C.F.A, M.F.E.S.B & N.R.E). MARKINGS TO BE VIA BLUE PAVEMENT MARKER AND A (RED TOPPED) WHITE POST.
- AGRICULTURAL DRAINS ARE TO BE PLACED BEHIND ALL KERB AND CHANNEL, KERB ONLY AND EDGE STRIPS IN ACCORDANCE WITH COUNCIL STANDARD DRAWING 202.
- ALL TABLE DRAINS AND VERGES ARE TO BE REINSTATED UPON COMPLETION OF WORKS TO THE SATISFACTION OF THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE.
- ALL TRAFFIC CONTROL MEASURES, SIGNS AND LINEMARKING SHALL BE IN ACCORDANCE WITH A.S.1742 - 1, 2 & 3. STREET NAME SIGNS ARE TO BE IN ACCORDANCE WITH COUNCIL STANDARD DRAWING SD4.08.
- ALL LINEMARKING PAINT SHALL BE LONG LIFE TYPE IN ACCORDANCE WITH SECTION 95C OF THE HUME CITY COUNCIL SPECIFICATIONS. LATERAL WORKS AND ARROWS BEING COLD APPLIED PLASTIC TROWELLED INTO PLACE (MATERIAL DEGADUR PLASTELINE) AND LONGITUDINAL LINES BEING EXTRUDED THERMOPLASTIC MATERIAL.
- ALL SIGNS TO BE CLASS 1 HIGH INTENSITY TYPE AND TO COMPLY WITH THE REQUIREMENTS OF A.S.1743 -2001.

- USE DRAIN CONNECTIONS TO 150mm DIAMETER PIPES TO BE VIA A MANUFACTURED JUNCTION PIECE. 150mm DIAMETER STORMWATER PIPES ARE TO BE HEAVY DUTY SEWER GRADE. PVC PIPES SHALL BE BACKFILLED WITH 10mm MINUS F.C.R. TO 150mm ABOVE TOP OF PIPE IN ALL LOCATIONS.
- 100mm HOUSE DRAIN CONNECTIONS TO BE LAID AT AN OFFSET OF 5.5m FROM THE LOW SIDE TITLE BOUNDARY AND PROPERTY INLETS 1.0m FROM THE LOW CORNER OF THE LOT UNLESS OTHERWISE SHOWN.
- BLASTING GENERALLY IS NOT ENCOURAGED, HOWEVER BLASTING MAY BE REQUIRED AS A LAST RESORT DEPENDING ON GROUND CONDITIONS. COUNCIL IS TO BE NOTIFIED IN WRITING IF ANY BLASTING IS NECESSARY. RESIDENTS LIKELY TO BE AFFECTED BY THE BLASTING AND ALL SERVICE AUTHORITIES SHALL BE NOTIFIED IN WRITING PRIOR TO WORKS COMMENCING. COPIES OF THESE NOTIFICATIONS ARE TO BE SUBMITTED TO COUNCIL.
RESIDENT NOTIFICATION LETTER IS TO INCLUDE BLASTING GUIDELINES, FIRING AND MISFIRE PROCEDURES AND CONTRACTOR AND CONSULTANT CONTACT NAMES AND PHONE NUMBERS.
ALL BLASTING IS TO BE WITHIN THE LIMITS FOR AIR AND GROUND VIBRATION LEVELS AS SET DOWN IN A.S.2187.2-1993.
ALL BLASTS SHALL BE MONITORED FOR AIR AND NOISE VIBRATION AT POTENTIALLY AFFECTED RESIDENCES. "FORM A" FROM A.S. 2187.2-1993, AND WAVE TRACE COPIES ARE TO BE SUBMITTED TO COUNCIL FOR EACH BLAST.
BLASTING IS TO BE RESTRICTED TO BETWEEN 9:00am AND 3:30pm.
BLASTING IS NOT TO OCCUR ON WEEKENDS OR PUBLIC HOLIDAYS.
BLASTING AREA SIGNS ARE TO BE PLACED AT ALL ENTRANCES TO THE SITE.

SPIIRE GENERAL NOTES:

- 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.
- 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 SCHEDULE.
- ALL FILLING ON LOTS AND WITHIN ROAD RESERVES GREATER THAN 200mm IS TO BE UNDERTAKEN USING LEVEL 1 SUPERVISION AND BE COMPLETED IN ACCORDANCE WITH A.S.3798-2007. FILLING MATERIAL IS TO BE IN ACCORDANCE WITH THE SPECIFICATION, A.S.3798-2007 & TO THE SATISFACTION OF COUNCIL AND THE SUPERINTENDENT.
- ALL BATTERS SHALL BE 1 IN 6, UNLESS OTHERWISE SHOWN.
- NO FILL OR STOCKPIILING OF MATERIAL IS TO BE PLACED ON ANY RESERVE FOR PUBLIC OPEN SPACE UNLESS OTHERWISE DIRECTED OR APPROVED BY THE SUPERINTENDENT.
- T.B.M.'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.
- AT LEAST THREE (3) DAYS PRIOR TO COMMENCING WORK ON EXCAVATIONS IN EXCESS OF 150m 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.
- WHERE REQUIRED, ALL EXISTING DAMS, DEPRESSIONS AND DRAINS ARE TO BE BREACHED, DRAINED, DE-SLUDGED AND SHALL BE EXCAVATED TO A CLEAN FIRM BASE. THE SURFACE SHALL BE INSPECTED, APPROVED AND LEVELLED 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.
- GAS AND WATER CONDUITS SIZES ARE AS FOLLOWS:
Ø50mm CLASS 12 P.V.C. - SINGLE SERVICE
Ø100mm CLASS 12 P.V.C. - DUAL SERVICE (DRINKING AND NON DRINKING WATER)
WITH THE FOLLOWING MINIMUM COVER TO FINISHED SURFACE LEVELS:
ROAD PAVEMENT - 0.80m
VERGE & FOOTPATHS - 0.45m
- CENTRE LINES OF ALL EASEMENT DRAINS ARE OFFSET 1.0m OR 2.2m (WHERE OUTSIDE OF SEWER) FROM THE PROPERTY LINE UNLESS SHOWN OTHERWISE.
- 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.
- ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH AS1214-1992 GENERAL CONDITIONS OF CONTRACT.
- TELSTRA IS TO BE NOTIFIED 7 DAYS PRIOR TO PLACEMENT OF CONCRETE WORKS.
- 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.
- 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.
- 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 MATERIAL.
- ALL TEMPORARY WARNING SIGNS USED DURING CONSTRUCTION SHALL BE SUPPLIED AND MAINTAINED IN ACCORDANCE WITH A.S.1742-3.
- 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.
- CONTRACTOR TO ENSURE SEWER MANHOLES ARE WHOLLY LOCATED IN PROPOSED FOOTPATHS.
- VEHICLE CROSSINGS TO BE CONSTRUCTED IN ACCORDANCE WITH EDCM 501 & 502
- THE CONTRACTOR IS REQUIRED TO COMPLY WITH ALL RECOMMENDATIONS STATED IN THE SODIC SOIL ASSESSMENT REPORT PREPARED BY S.E.S.L. REPORT REFERENCE J002893.
- WHERE EXISTING SURFACES DO NOT REQUIRE EXCAVATION, THE STABILITY OF THE SITE IS DEMONSTRATED AND NO INTERVENTION IS REQUIRED. THOSE EXISTING SURFACE AREAS MUST HAVE THEIR VEGETATION RETAINED AND SHOULD BE PROTECTED BY EXCLUSION FENCING AND SIGNAGE DURING CONSTRUCTION TO PREVENT ACCESS AND ACTIVITY BY VEHICULAR TRAFFIC AND PLANT EQUIPMENT.
- WHERE EXCAVATION IS REQUIRED FOR SERVICES, FOOTINGS AND DRAINAGE, EXPOSED SOILS WILL REQUIRE TREATMENT WITH GYPSUM AS DETAILED IN THE SODIC SOIL ASSESSMENT REPORT PREPARED BY S.E.S.L. REPORT REFERENCE J002893.
- ON BATTERS OR OTHER SLOPPING GROUND WHERE VEGETATION REINSTATEMENT IS INCORPORATED, IT WILL BE IMPORTANT TO LEAVE TREATED SUBSOIL IN SLIGHTLY ROUGH CONDITION (AVOID ROLLING OR COMPACTION) TO ASSIST WITH KEYING IN OF TOPSOIL LAYERS. ON SLOPES GREATER (STEEPER) THAN 1 IN 6, FURTHER SURFACE STABILISATION BY THE USE OF COARSE WOODY MULCH IS RECOMMENDED UNTIL SUCH TIME AS VEGETATION ESTABLISHES AND PLANT ROOTS CAN COUNTER EROSION PRESSURE.
THE FOLLOWING PRACTICES SHOULD BE ADOPTED FOR ALL DISPERSIVE SOILS ON-SITE:
 - SOILS FROM DIFFERENT HORIZONS MUST BE STRIPPED AND STOCKPILED SEPARATELY IN VIEW OF THE VARIATION IN AMELIORATION REQUIREMENTS.
 - SOIL STOCKPILES MUST NOT EXCEED 2 METRES IN HEIGHT AND MUST NEVER BE TRAFFICKED.
 - STOCKPILED SOILS MUST HAVE GYPSUM APPLIED AS PER SODIC SOIL ASSESSMENT REPORT PREPARED BY S.E.S.L. REPORT REFERENCE J002893.
- WHERE POTENTIALLY DISPERSIVE SOILS HAVE BEEN EXPOSED BUT NOT EXCAVATED (E.G. SOIL REMAINING POST-STRIPPING), GYPSUM SHOULD BE APPLIED AS PER SODIC SOIL ASSESSMENT REPORT PREPARED BY S.E.S.L. REPORT REFERENCE J002893.
- IT MUST BE NOTED THAT WHILE GYPSUM APPLICATION WILL CHEMICALLY STABILISE THESE SOILS TO REDUCE THE DISKS OF DISPERSION, THE APPLICATION IS NOT A SUBSTITUTE FOR MECHANICAL EROSION CONTROL MEASURES. MECHANICAL EROSION CONTROL MEASURES AND STRUCTURES MUST REMAIN MAINTAINED UNTIL EARTHWORKS ON-SITE HAVE BEEN COMPLETED.



LOCALITY PLAN

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DRAWING SCHEDULE

DRAWING	DESCRIPTION	SHEET No.	REVISION
CR100	GENERAL NOTES - FACE SHEET	1	1
CR200	ROAD LAYOUT PLANS - FACE PLAN	2	1
CR201	ROAD LAYOUT PLANS - SERVICE PLAN	3	1
CR201	ROAD LAYOUT PLANS - PAVEMENT PLAN	4	1
CR300	ROAD LONG SECTIONS - SHEET 1 OF 2	5	1
CR301	ROAD LONG SECTIONS - SHEET 2 OF 2	6	1
CR400	ROAD CROSS SECTIONS - SHEET 1 OF 4	7	1
CR401	ROAD CROSS SECTIONS - SHEET 2 OF 4	8	1
CR402	ROAD CROSS SECTIONS - SHEET 3 OF 4	9	1
CR403	ROAD CROSS SECTIONS - SHEET 4 OF 4	10	1
CR500	INTERSECTION DETAILS - SHEET 1 OF 2	11	1
CR501	INTERSECTION DETAILS - SHEET 2 OF 2	12	1
CR600	DRAINAGE LONG SECTIONS	13	1
CR601	DRAINAGE LONG SECTIONS & PIT SCHEDULE	14	1
CR700	PAVEMENT AND TYPICAL DETAILS	15	1
CR701	PAVEMENT AND TYPICAL DETAILS - CONCRETE DETAIL PLAN	16	1
CR800	SIGNAGE AND LINEMARKING	17	1

LEGEND

DESCRIPTION	EXISTING	PROPOSED
WATER MAIN	DW	DW
WATER RECYCLED	NDW	NDW
UNDERGROUND ELECTRICITY	E	E
OPTIC FIBRE	OF	OF
GAS MAIN	G	G
SEWER & MANHOLE	S	S
CENTRAL INVERT	>	>
COUNCIL STORMWATER DRAIN & PIT		
STORMWATER DRAINAGE PROPERTY INLETS		
COUNCIL STORMWATER PITS		
HOUSE DRAIN (WITH DIMENSION)		
AG DRAIN AND FLUSHER	AG	AG
STORMWATER DRAINAGE PIT NUMBER	1	1
GAS & WATER CONDUITS	GW	GW
CONCRETE VEHICLE CROSSING		
SURFACE CONTOUR MINOR	- 168.90 -	168.90
SURFACE CONTOUR MAJOR	- 169.00 -	169.00
SURFACE LEVEL	E123.45	F124.68
BATTER LEVEL (TOP / TOE)		T124.80
EARTHWORKS GRADE		1 in 150
SIGN AND POST		
STREET SIGN		
PERMANENT SURVEY MARK		
TEMPORARY BENCH MARK		
ROAD CHAINAGES	CH116.57 (L/R)TP CH116.57	CH116.57 (L/R)TP CH116.57
LOT CHAINAGE	CH20.06	CH20.06
SETOUT POINT		A2
LIMIT OF WORKS		
BATTER		
FILLING GREATER THAN 0.20m		
CUT GREATER THAN 0.20m		
FALL OF LOT		
TREE TO BE REMOVED		
FENCE		
BOUNDARY BATTER SLOPE		



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.

Rev	Amendments	Approved	Date
1	AS CONSTRUCTED	R.W.	05/08/21
0	ISSUED FOR CONSTRUCTION	M.T.S.	02/02/21
E	TYPICAL SUBSURFACE DRAIN DETAIL AMENDED	M.T.S.	28/01/21
D	DRAINAGE ALIGNMENT, STD DETAILS & EXT DRIVEWAY CENTRELINE AMENDED	M.T.S.	19/01/21
C	GENERAL NOTES UPDATED, AMENDED AS PER COUNCIL COMMENTS	M.T.S.	10/12/20
B	AMENDED AS PER COUNCIL COMMENTS	M.T.S.	05/11/20
A	ISSUED TO COUNCIL	M.T.S.	15/09/20

Scale

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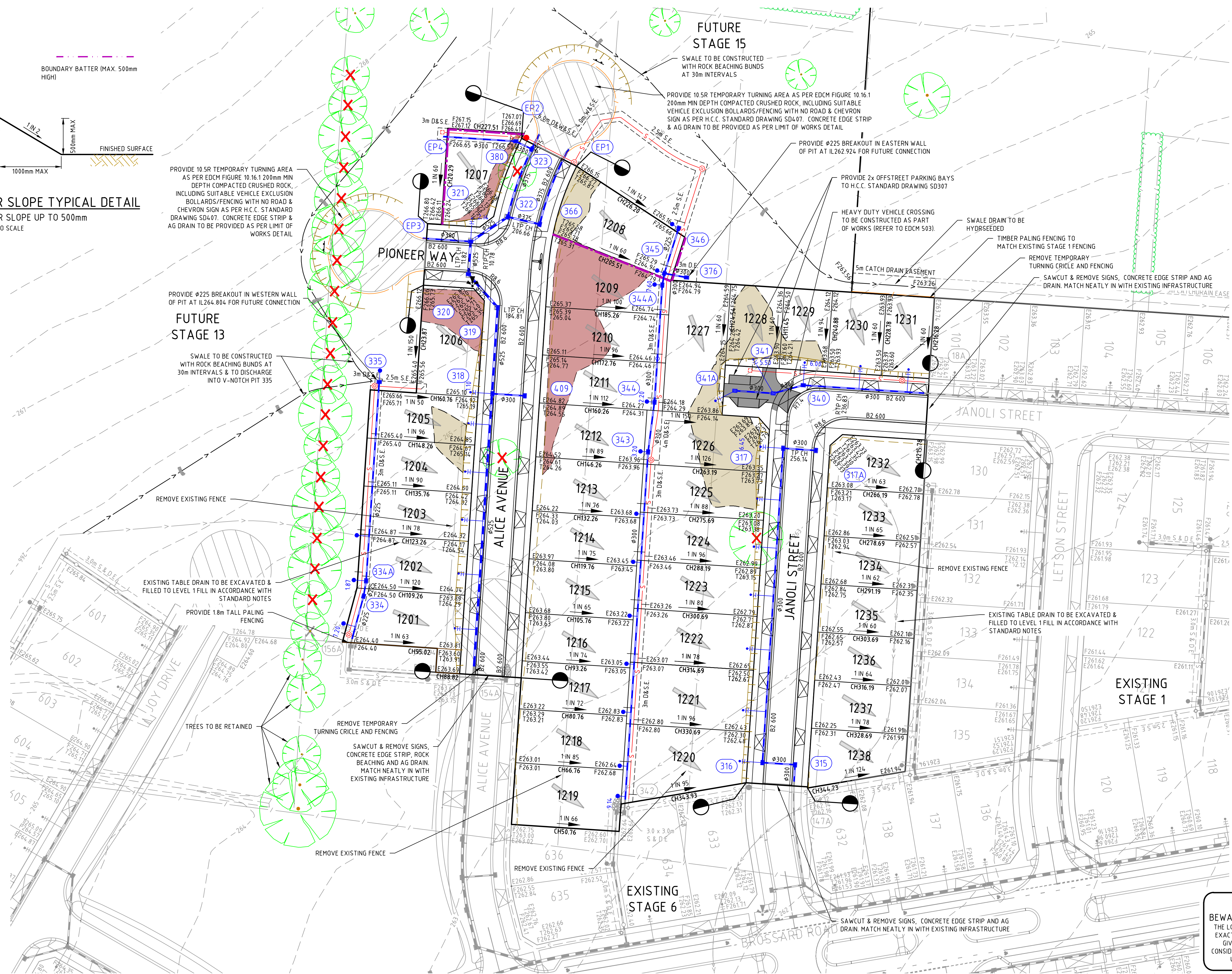
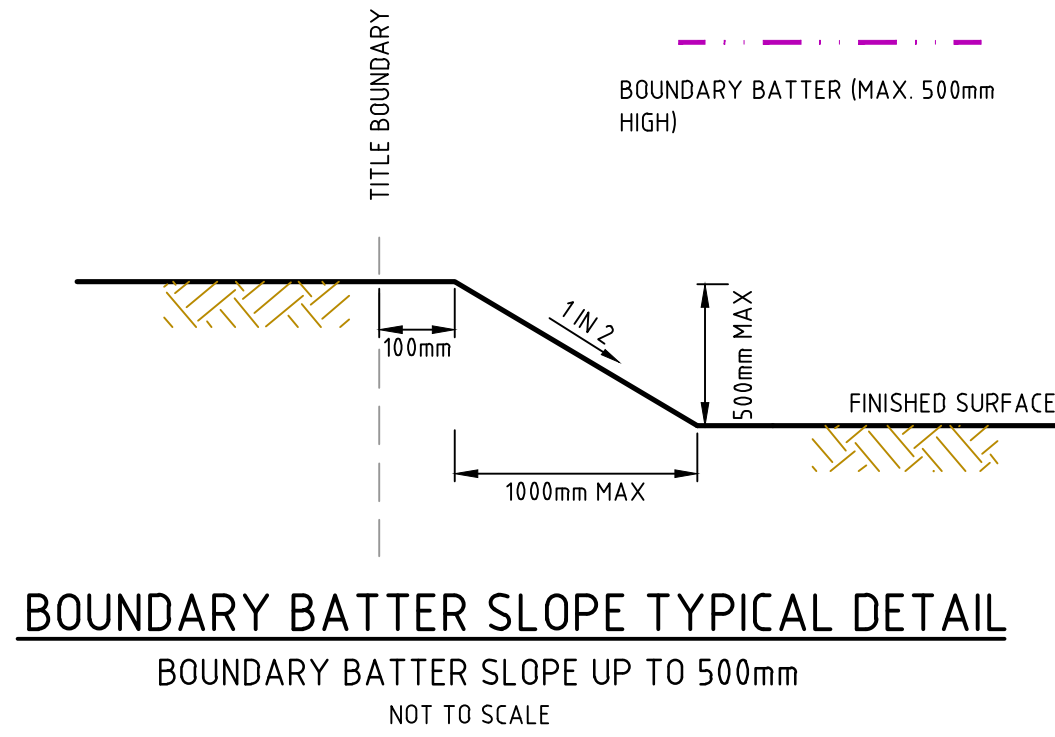
Designed
K. AYRES
Authorised
M. TOOMER-SMITH



Checked
J. KOEHLER
Date
02/02/21

**TRIJENA ESTATE
STAGE 12
ROAD AND DRAINAGE
GENERAL NOTES - FACE SHEET**
HUME CITY COUNCIL
PGG (MICKLEHAM) PTY LTD

AS CONSTRUCTED Drg No **304015CR100** Rev **1**



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Rev	Amendments	Approved	Date
1	AS CONSTRUCTED	R.W.	05/08/21
0	ISSUED FOR CONSTRUCTION	M.T.S.	02/02/21
D	DRAINAGE ALIGNMENT UPDATED	M.T.S.	19/01/21
C	EXTENDED DRIVEWAY, SERVICE CONDUITS, TURNING AREA AMENDED	M.T.S.	10/12/20
B	DRAINAGE NETWORK UPDATED, NOTES ADDED	M.T.S.	05/11/20
A	ISSUED TO COUNCIL	M.T.S.	15/09/20



AS/NZS 1500
WIRING
REGULATIONS

AS/NZS 1500
WIRING
REGULATIONS

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**POTTER
GEORGE**

Designed
K. AYRES

Authorised
M. TOOMER-SMITH

TRIJENA
MICKLEHAM

Checked
J. KOEHLER

Date
02/02/21

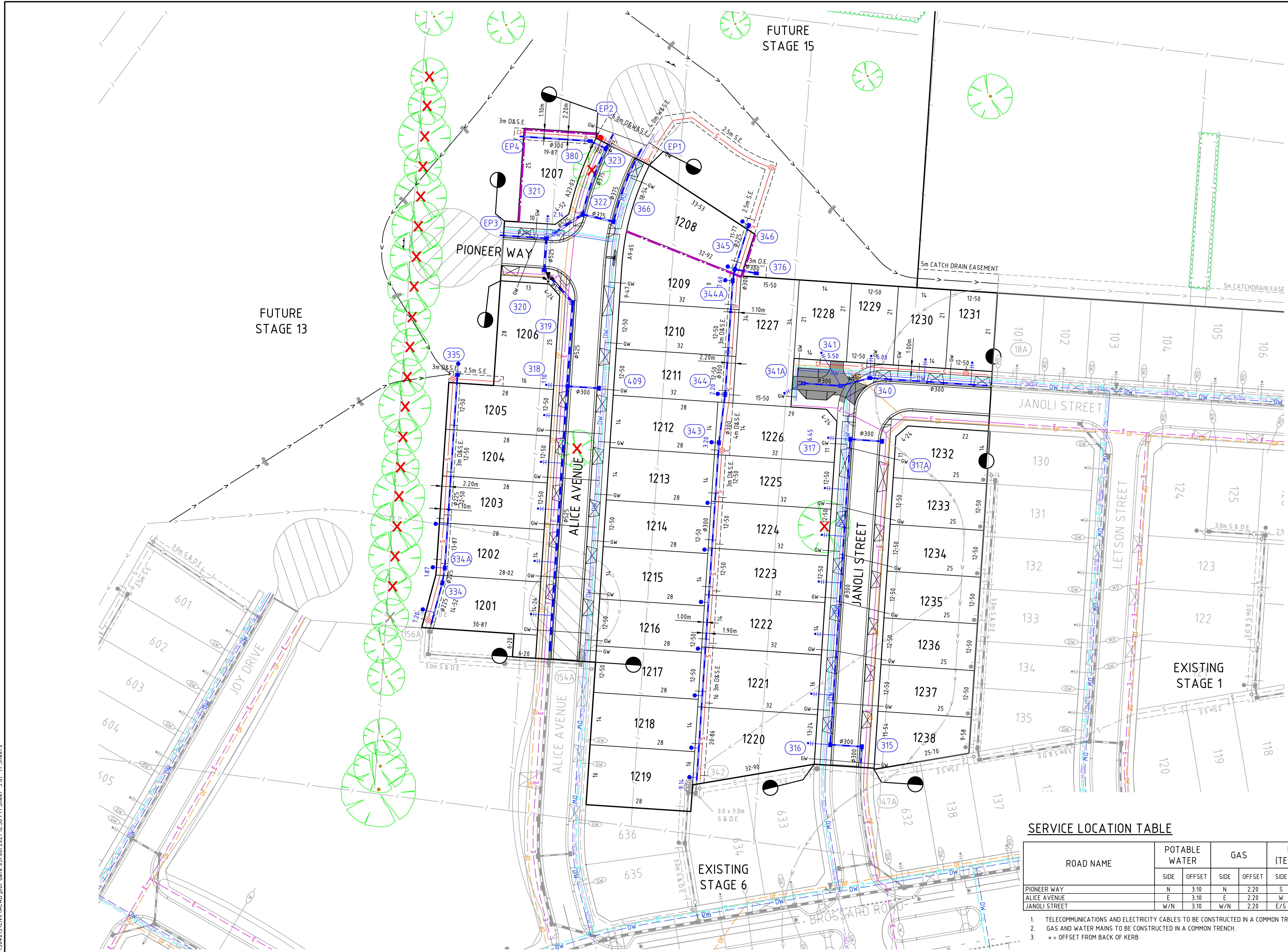
**TRIJENA ESTATE
STAGE 12
ROAD AND DRAINAGE
ROAD LAYOUT PLANS - FACE PLAN**

HUME CITY COUNCIL
PGG (MICKLEHAM) PTY LTD

AS CONSTRUCTED

Drg No
304015CR200

Rev
1



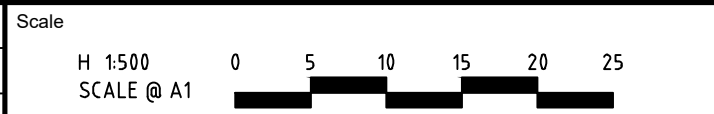
WARNING
BEWARE OF UNDERGROUND/OVERHEAD SERVICES
THE LOCATION OF SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. SPECIAL CONSIDERATION SHOULD BE GIVEN TO CONSTRUCTION PROCEDURES UNDER OVERHEAD ELECTRICITY TRANSMISSION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

SERVICE LOCATION TABLE

ROAD NAME	POTABLE WATER		GAS		NBN (TELECOM)		ELECTRICITY				RECYCLED WATER	
	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	POLE	OFFSET	U/G CABLE		SIDE	OFFSET
PIONEER WAY	N	3.10	N	2.20	S	1.80	S	1.00x	S	2.40	N	2.60
ALICE AVENUE	E	3.10	E	2.20	W	0.80	E	1.00x	W	2.30	E	2.60
JANOLI STREET	W/N	3.10	W/N	2.20	E/S	1.80	E/S	1.00x	E/S	2.60/2.40	W/N	2.60

- 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.
- x = OFFSET FROM BACK OF KERB

1	AS CONSTRUCTED	R.W.	05/08/21
0	ISSUED FOR CONSTRUCTION	M.T.S.	02/02/21
D	DRAINAGE ALIGNMENT UPDATED	M.T.S.	19/01/21
C	EXTENDED DRIVEWAY, SERVICE CONDUITS, TURNING AREA AMENDED	M.T.S.	10/12/20
B	DRAINAGE NETWORK UPDATED, LOT DIMENSIONS ADDED	M.T.S.	05/11/20
A	ISSUED TO COUNCIL	M.T.S.	15/09/20
Rev	Amendments	Approved	Date



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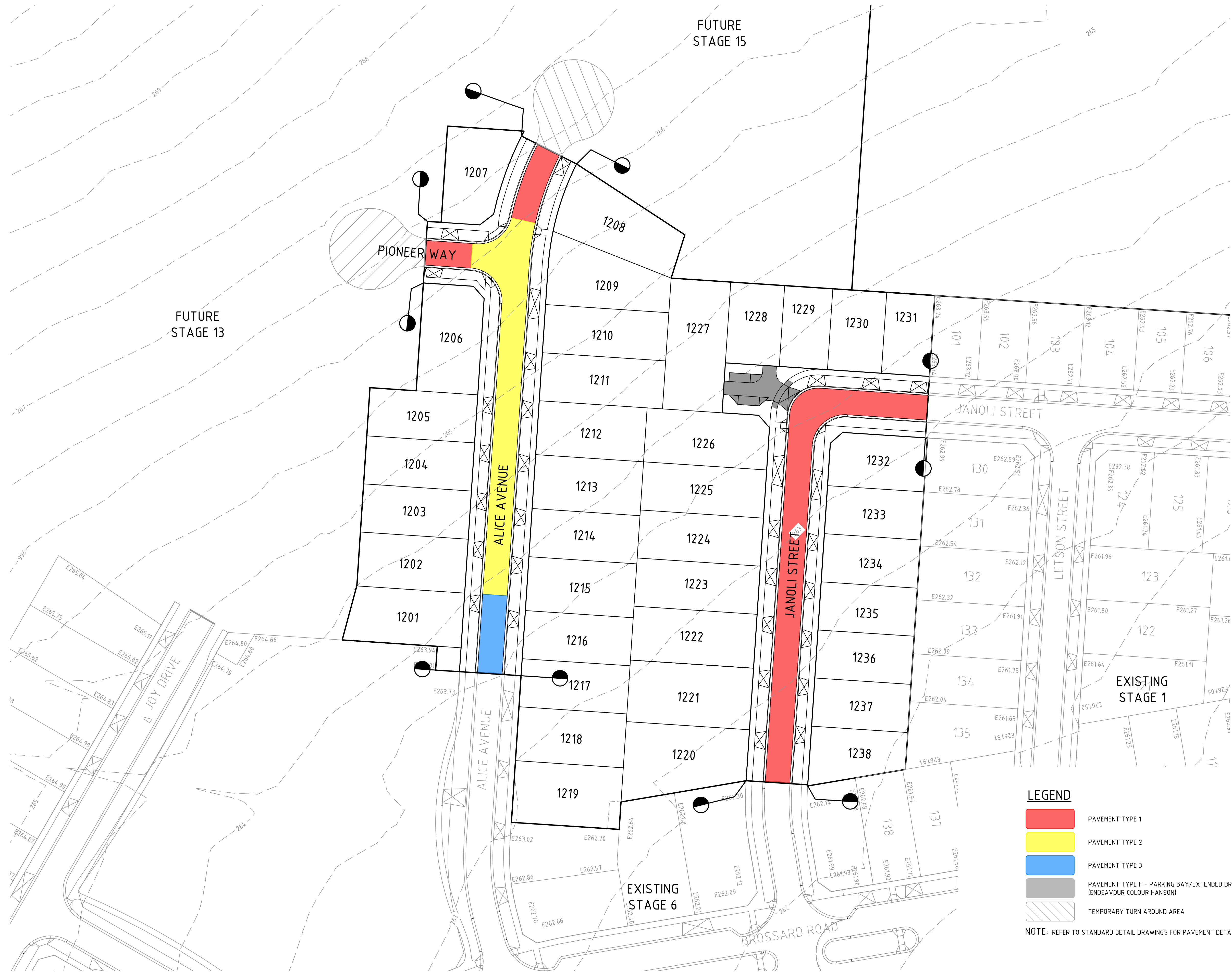


Designed
K. AYRES
Authorised
M. TOOMER-SMITH



Checked
J. KOEHLER
Date
02/02/21

**TRIJENA ESTATE
STAGE 12
ROAD AND DRAINAGE
ROAD LAYOUT PLANS - SERVICE PLAN**
HUME CITY COUNCIL
PGG (MICKLEHAM) PTY LTD



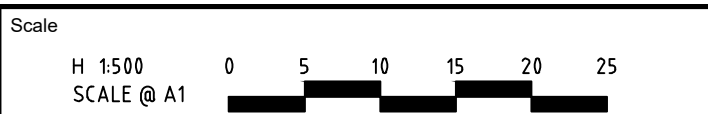
LEGEND

- PAVEMENT TYPE 1
- PAVEMENT TYPE 2
- PAVEMENT TYPE 3
- PAVEMENT TYPE F - PARKING BAY/EXTENDED DRIVEWAY (ENDEAVOUR COLOUR HANSON)
- TEMPORARY TURN AROUND AREA

NOTE: REFER TO STANDARD DETAIL DRAWINGS FOR PAVEMENT DETAIL

file name: 304015CR202.dwg, layout name: CR202, plotted by: Kieran Ayres, file location: \\spiremedia\data\304015\proj\A1A0\plot date 05/08/2021 12:56 PM Sheet 4 of 17 Sheets

1	AS CONSTRUCTED	R.W.	05/08/21
0	ISSUED FOR CONSTRUCTION	M.T.S.	02/02/21
B	PAVEMENT DESIGN AND TRAFFIC VOLUMES UPDATED	M.T.S.	05/11/20
A	ISSUED TO COUNCIL	M.T.S.	15/09/20
Rev	Amendments	Approved	Date



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Designed
K. AYRES
Authorised
M. TOOMER-SMITH

Checked
J. KOEHLER
Date
02/02/21

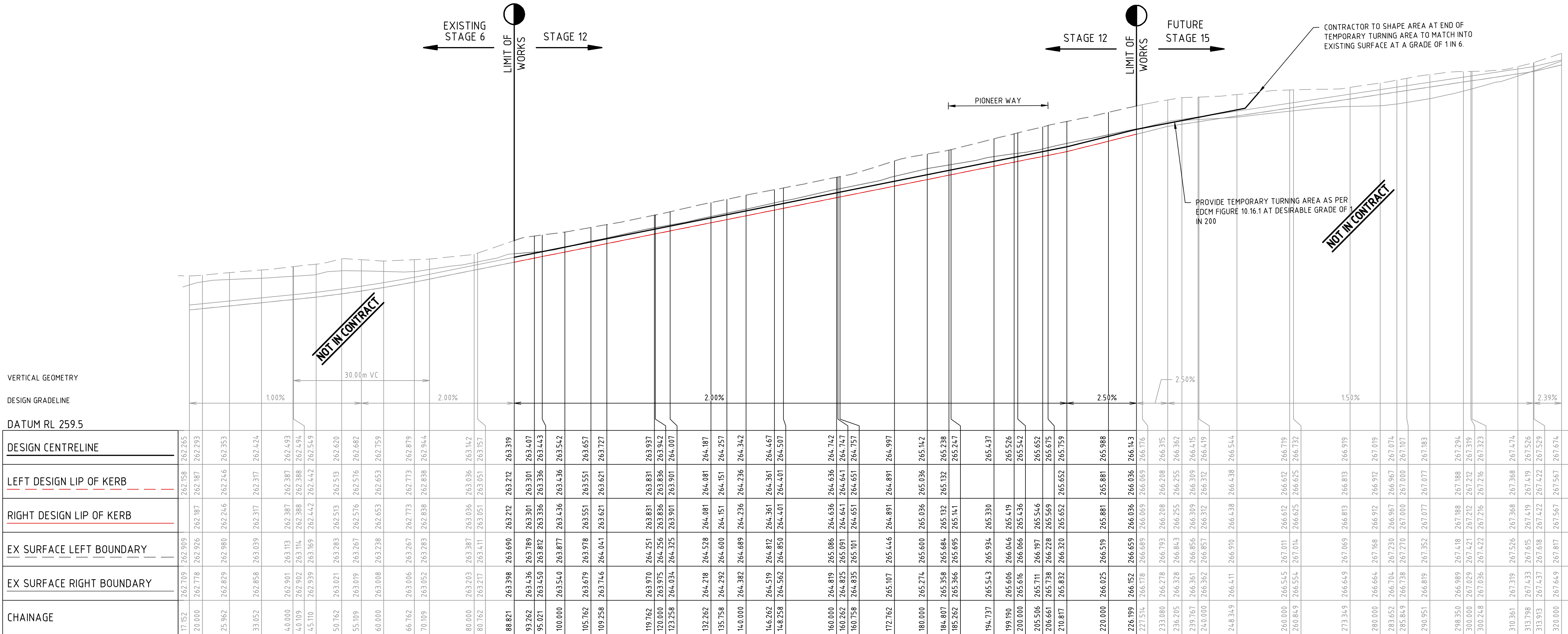
**TRIJENA ESTATE
STAGE 12
ROAD AND DRAINAGE
ROAD LAYOUT PLANS - PAVEMENT PLAN**
HUME CITY COUNCIL
PGG (MICKLEHAM) PTY LTD

AS CONSTRUCTED

Dwg No
304015CR202

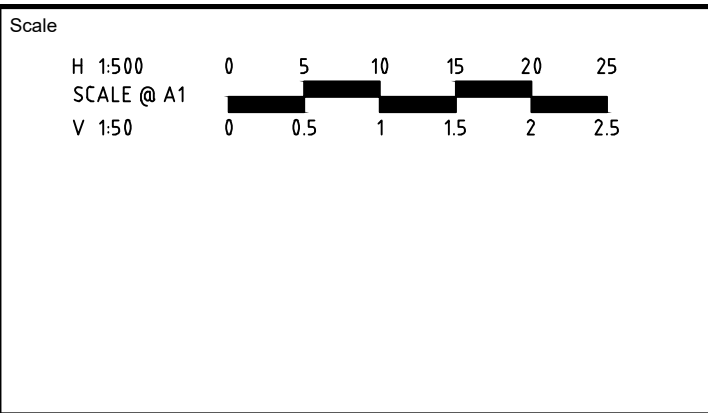
Rev
1

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ALICE AVENUE

Rev	Amendments	Approved	Date
1	AS CONSTRUCTED	R.W.	05/08/21
0	ISSUED FOR CONSTRUCTION	M.T.S.	02/02/21
B	TEMPORARY TURNAROUND AREA ADDED	M.T.S.	05/11/20
A	ISSUED TO COUNCIL	M.T.S.	15/09/20



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Designed
K. AYRES

Authorised
M. TOOMER-SMITH

Checked
J. KOEHLER

Date
02/02/21

POTTER GEORGE

TRIJENA
MICKLEHAM

TRIJENA ESTATE
STAGE 12
ROAD AND DRAINAGE
ROAD LONG SECTIONS - SHEET 1 OF 2
HUME CITY COUNCIL
PGG (MICKLEHAM) PTY LTD

AS CONSTRUCTED

Drg No
304015CR300

Rev
1

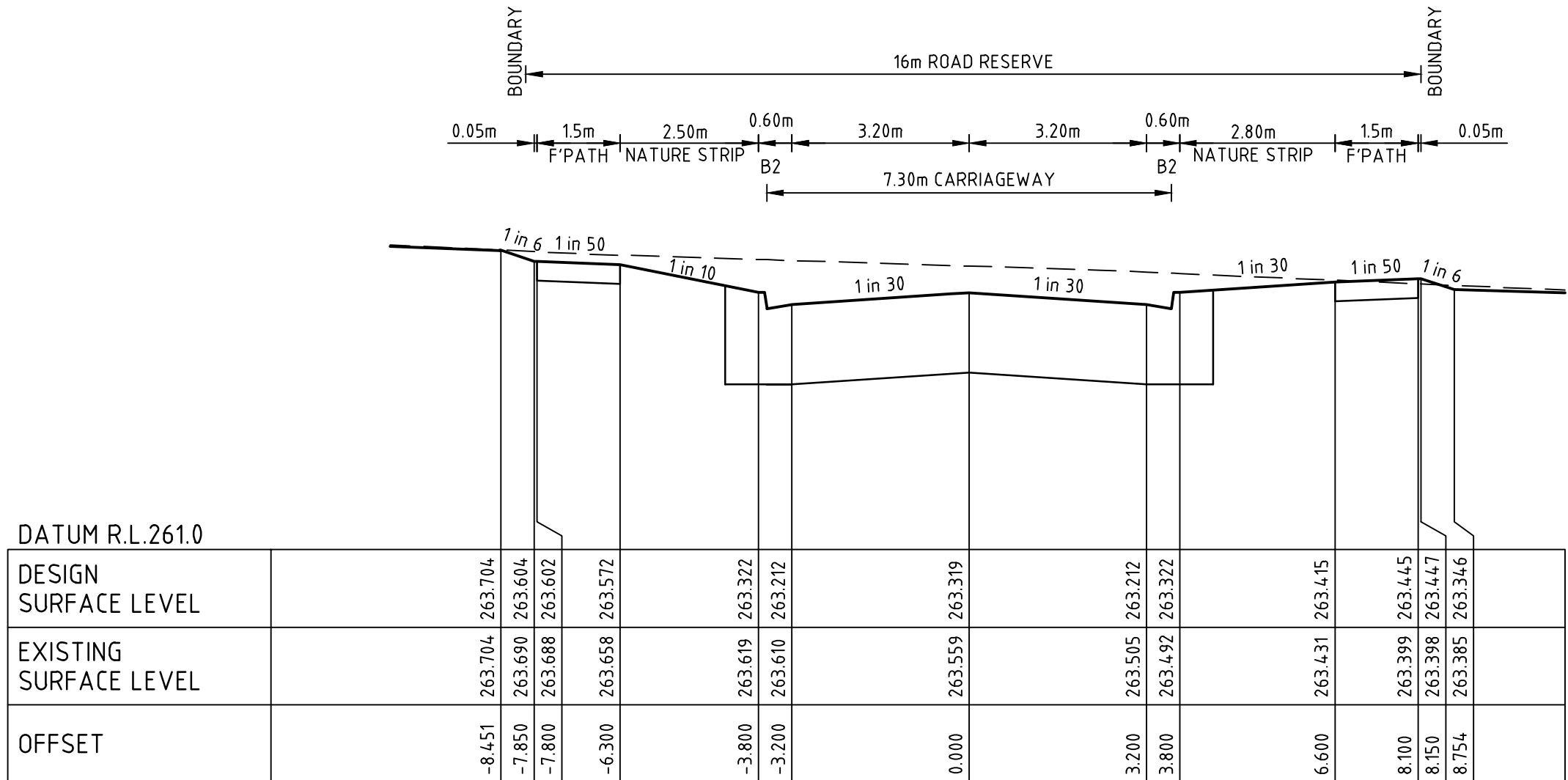


CHAINAGE	EX SURFACE LEFT BOUNDARY	RIGHT DESIGN LIP OF KERB	LEFT DESIGN LIP OF KERB	DESIGN CENTRELINE
116.000	261.693	261.400	261.254	261.251
116.930	261.724	261.404	261.268	261.382
119.730	261.752	261.456	261.311	261.311
120.000	261.771	261.479	261.332	261.439
125.780	261.865	261.583	261.428	261.535
128.780	261.914	261.623	261.478	261.585
138.280	262.033	261.782	261.637	261.743
140.000	262.062	261.800	261.665	261.772
142.780	262.108	261.833	261.712	261.818
150.780	262.227	261.954	261.845	261.952
156.780	262.310	262.023	261.945	262.052
160.000	262.412	262.110	261.999	262.105
163.280	262.546	262.230	262.053	262.160
177.280	262.706	262.452	262.287	262.393
180.000	262.736	262.475	262.332	262.439
191.280	262.898	262.594	262.520	262.627
200.000	263.046	262.722	262.665	262.712
203.780	263.121	262.791	262.728	262.855
215.780	263.329	262.991	262.928	263.035
216.280	263.355	263.000	262.937	263.043
220.000	263.383	263.068	262.999	263.105
226.568	263.468	263.173	263.108	263.215
228.780	263.497	263.203	263.142	263.249
236.830	263.600	263.313	263.224	263.330
238.630	263.624	263.319	263.274	263.339
240.000	263.656	263.318	263.344	263.344
240.878	263.685	263.317	262.345	263.345
241.568	263.688	263.317	263.346	263.346
242.357	263.736	263.316	263.346	263.346
254.338	263.529	263.307		263.771
256.188	263.594	263.277	263.140	263.246
256.658	263.685	263.268	263.133	263.240
260.000	263.417	263.200	263.082	263.188
263.188	263.354	263.156	263.034	263.141
266.188	263.298	263.076	262.989	263.096
275.688	263.200	262.909	262.846	262.953
278.688	263.151	262.859	262.801	262.908
280.000	263.130	262.839	262.782	262.888
288.188	262.992	262.713	262.659	262.766
291.188	262.931	262.676	262.614	262.721
300.000	262.800	262.579	262.482	262.588
306.688	262.793	262.574	262.471	262.578
308.688	262.761	262.552	262.426	262.533
314.528	262.653	262.451	262.264	262.371
316.688	262.651	262.449	262.262	262.369
318.188	262.638	262.433	262.243	262.350
320.000	262.585	262.385	262.195	262.302
328.688	262.458	262.252	262.087	262.194
330.688	262.429	262.233	262.062	262.169
340.000	262.318	262.175	261.945	262.052
343.927	262.303	262.147	261.896	262.003
344.228	262.302	262.144	261.893	261.999
345.590	262.296	262.134	261.876	261.982
357.715	262.340	262.174	261.724	261.831
360.000	262.315	262.105	261.695	261.802
371.344			261.554	261.660

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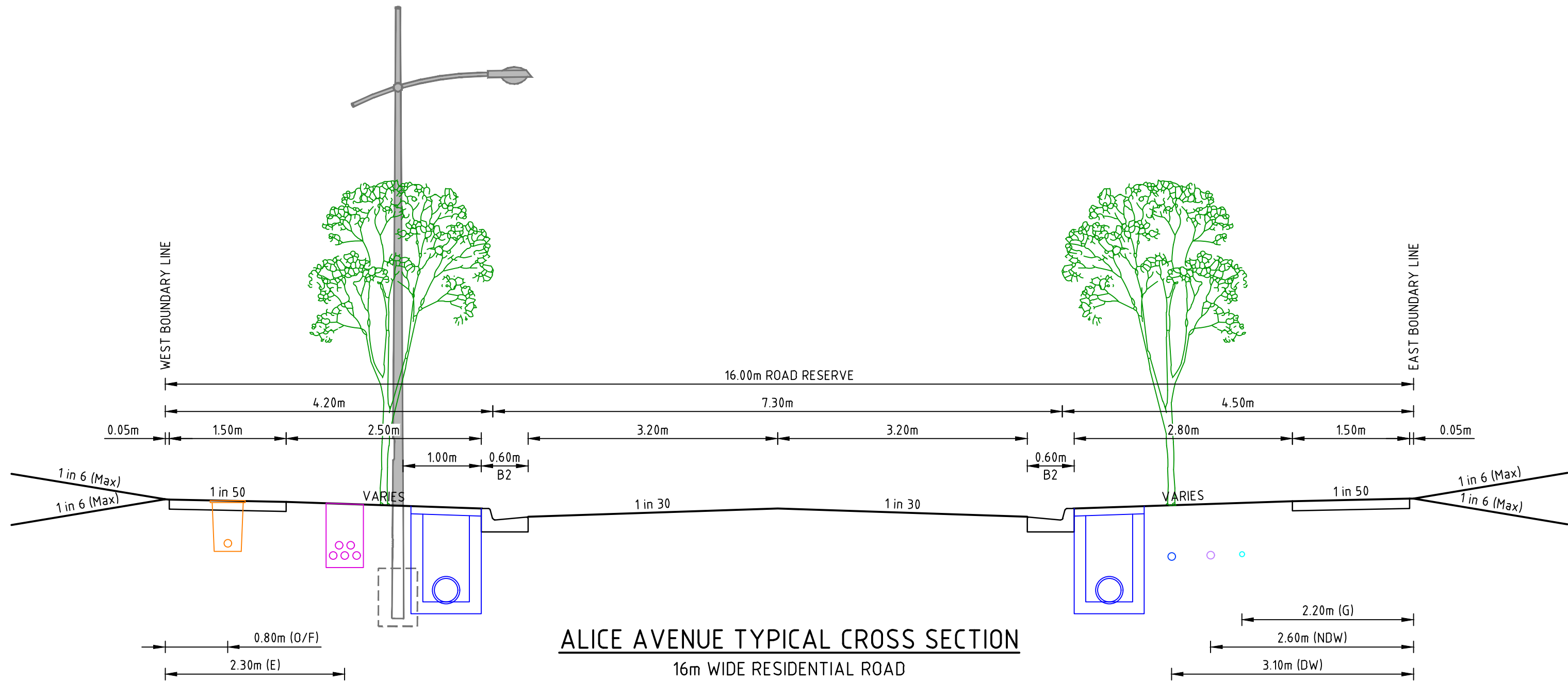
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FILLING NOTE
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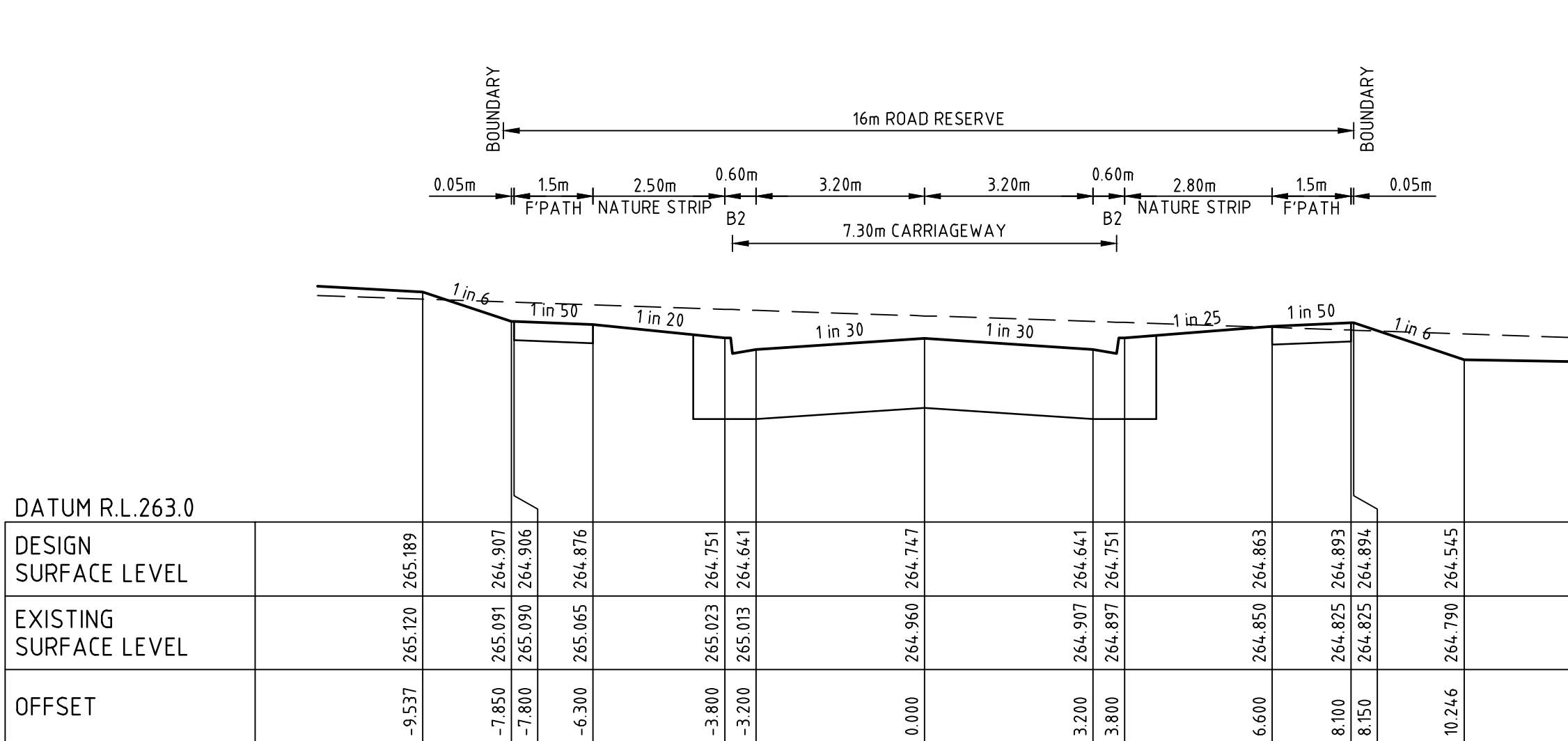


ALICE AVENUE

CH 88.82

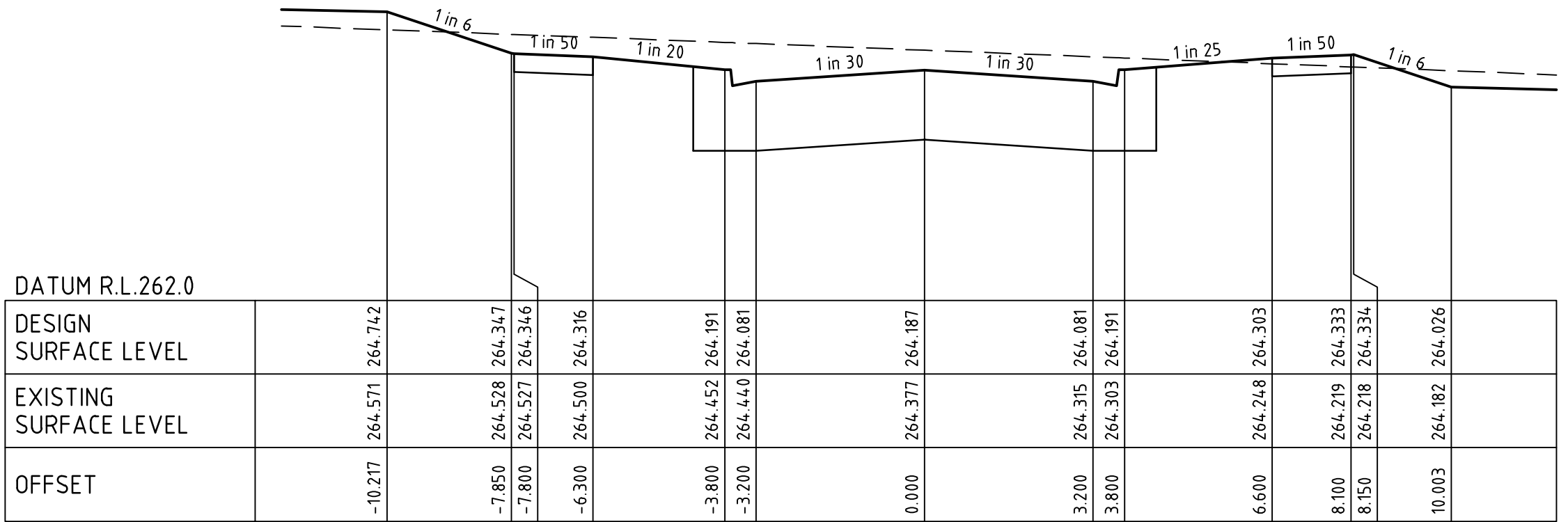


ALICE AVENUE TYPICAL CROSS SECTION
16m WIDE RESIDENTIAL ROAD
SCALE 1:50 @ A1



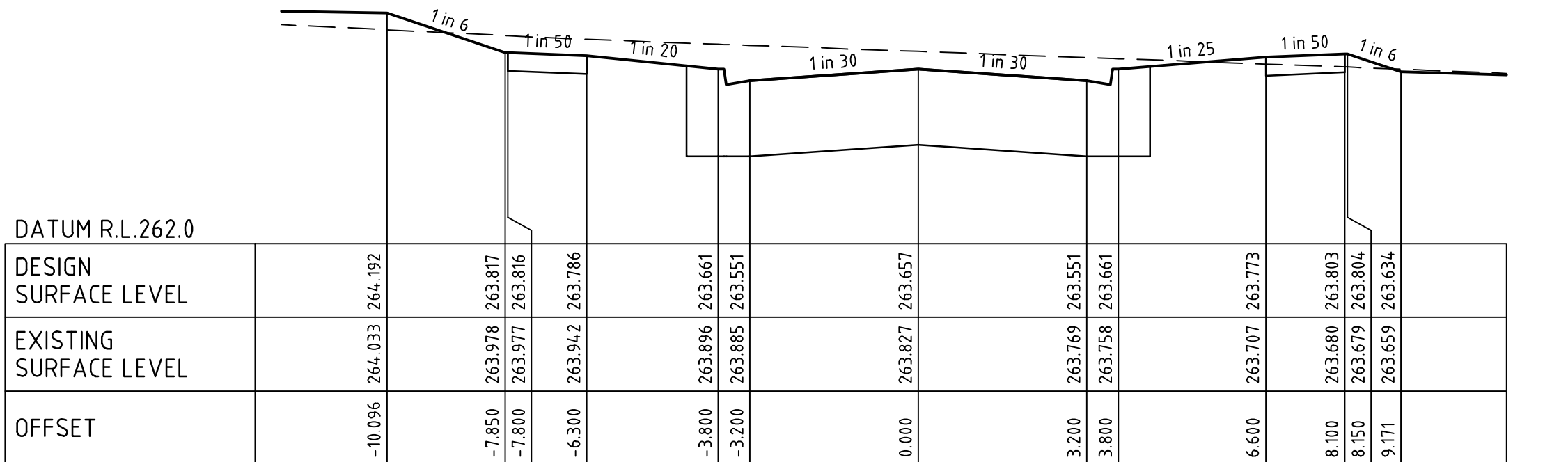
ALICE AVENUE

CH 160.26



ALICE AVENUE

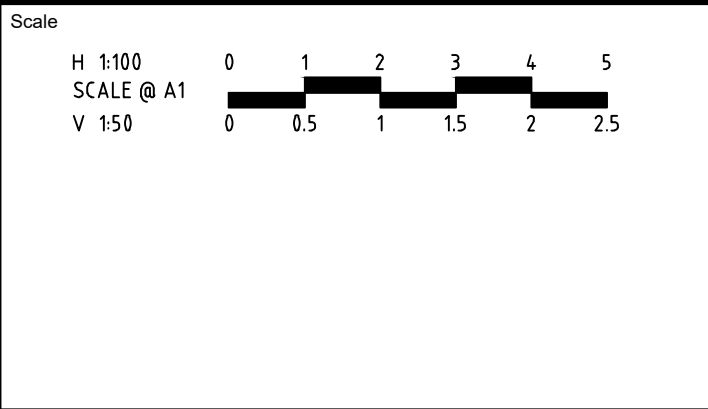
CH 132.26



ALICE AVENUE

CH 105.76

Rev	Amendments	Approved	Date
1	AS CONSTRUCTED	R.W.	05/08/21
0	ISSUED FOR CONSTRUCTION	M.T.S.	02/02/21
A	ISSUED TO COUNCIL	M.T.S.	15/09/20



Designed K. AYRES	Checked J. KOEHLER
Authorised M. TOOMER-SMITH	Date 02/02/21

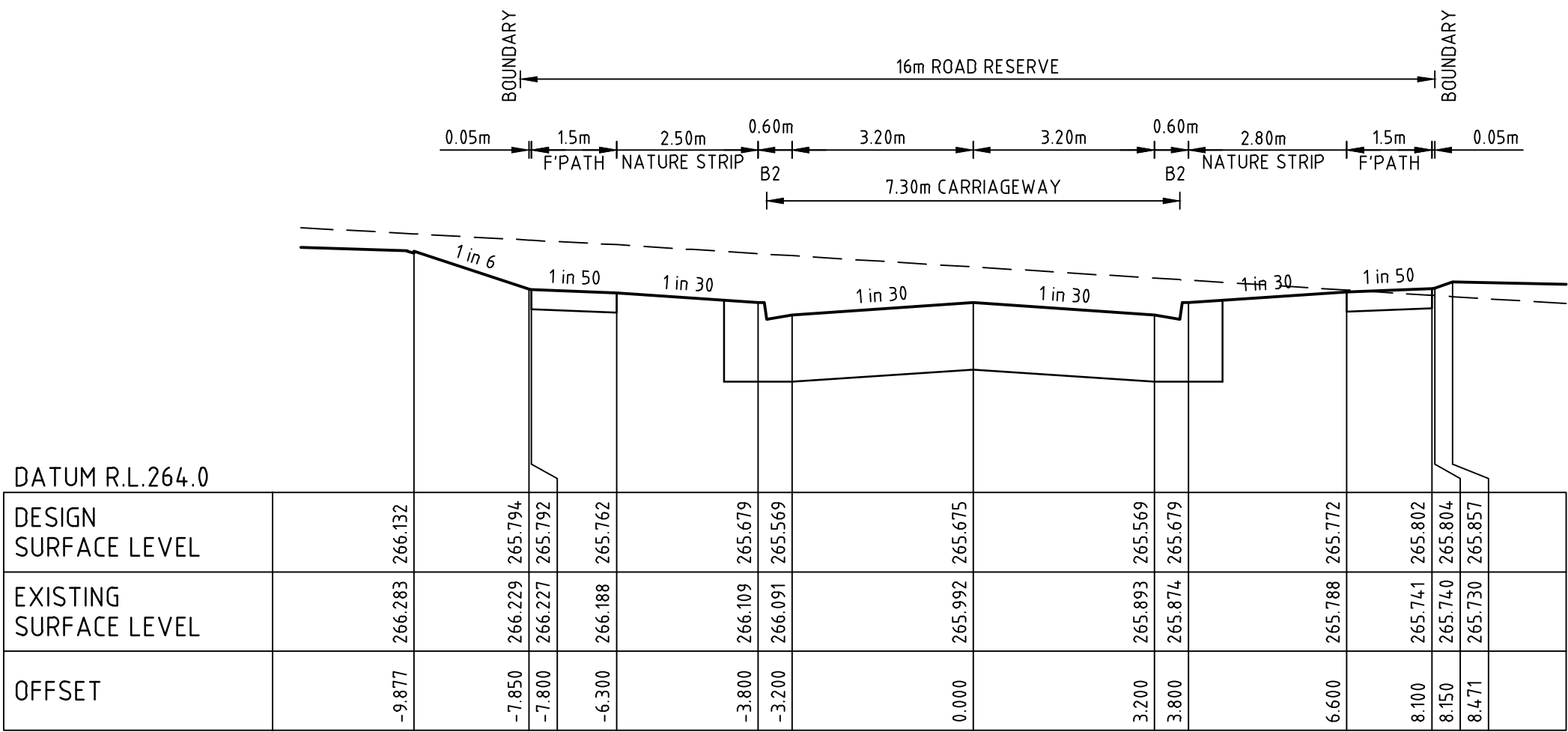
**TRIJENA ESTATE
STAGE 12
ROAD AND DRAINAGE
ROAD CROSS SECTIONS - SHEET 1 OF 4
HUME CITY COUNCIL
PGG (MICKLEHAM) PTY LTD**

AS CONSTRUCTED

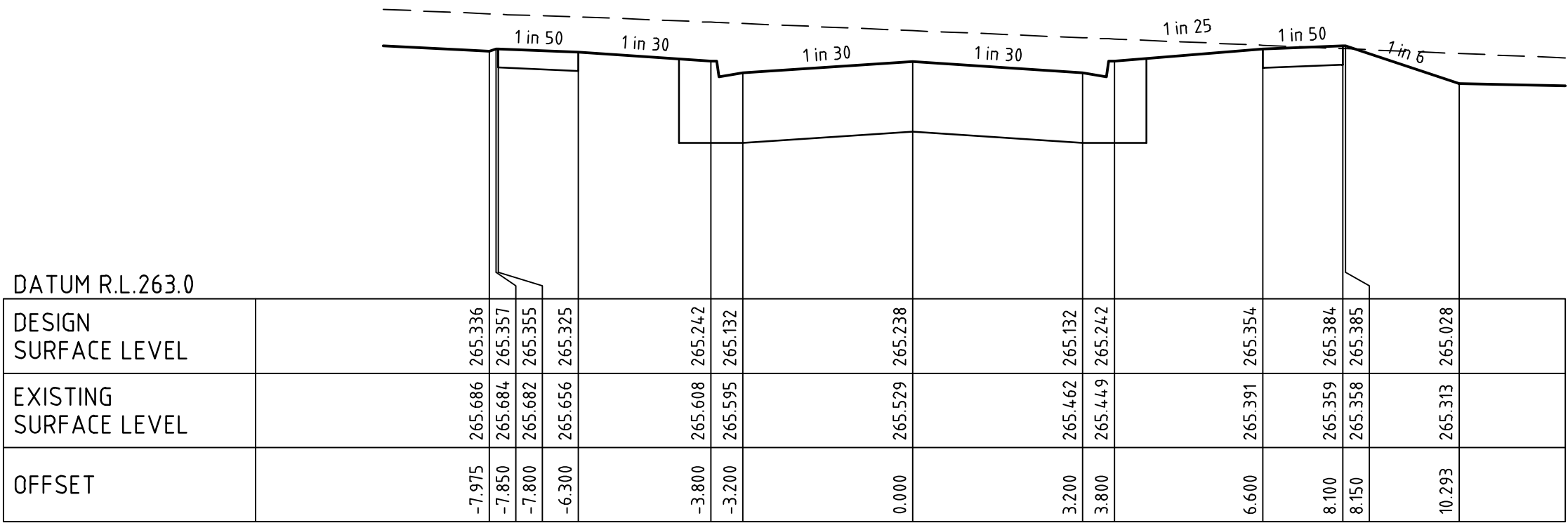
Drg No
304015CR400

Rev
1

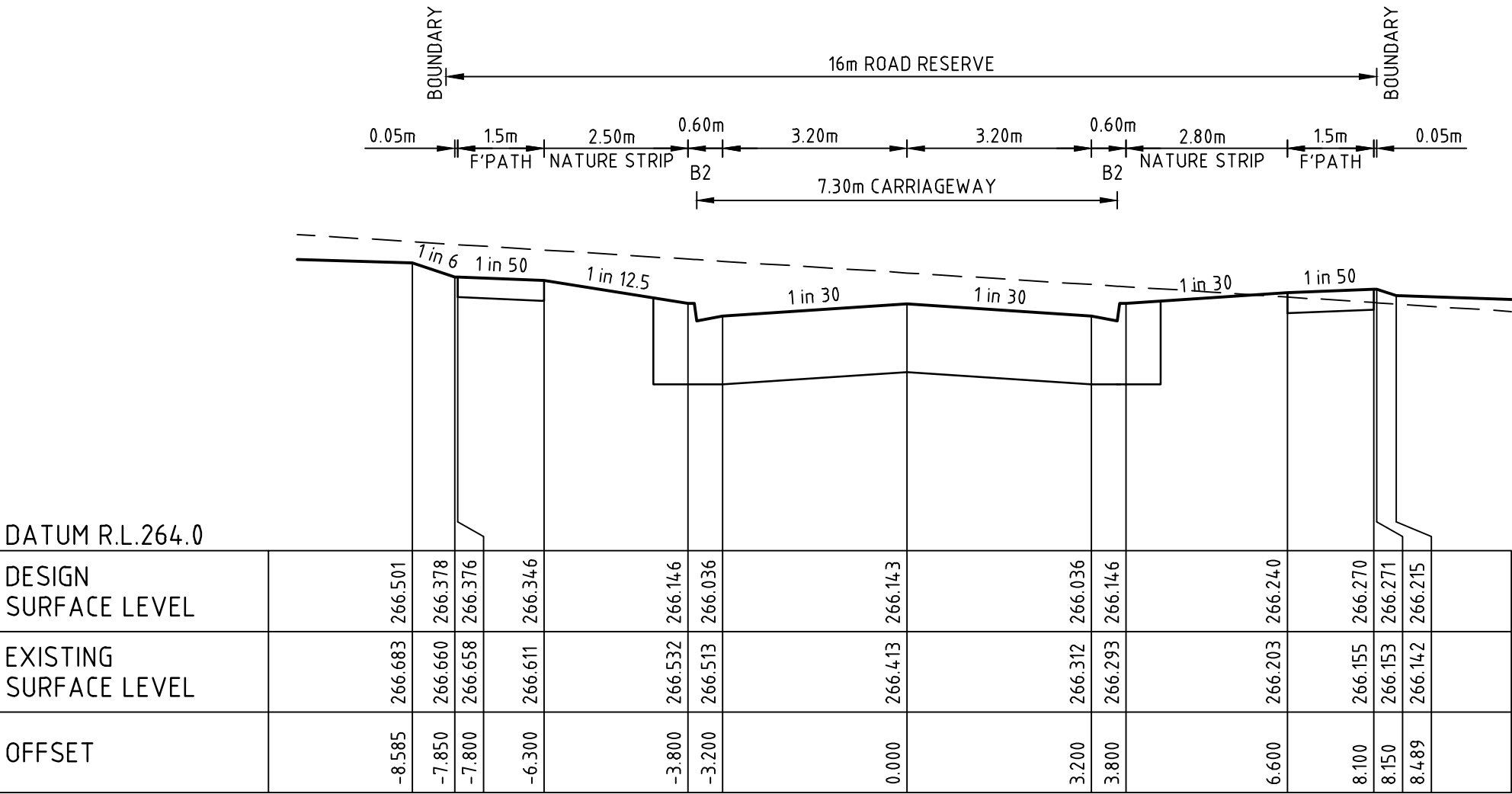
FILLING NOTE
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ALICE AVENUE CH 206.66



ALICE AVENUE CH 184.81



ALICE AVENUE CH 226.20

file name: 304015CR401.dwg, layout name: CR401, plotted by: Karen Ayres, file location: \\spiremedia\data\304015\proj\A1401.dwg, plot date: 05/08/2021 12:57 PM, Sheet: 8 of 17, Sheets

1	AS CONSTRUCTED	R.W.	05/08/21
0	ISSUED FOR CONSTRUCTION	M.T.S.	02/02/21
A	ISSUED TO COUNCIL	M.T.S.	15/09/20
Rev	Amendments	Approved	Date

Scale

H 1:100
SCALE @ A1
V 1:50

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Designed
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Authorised
M. TOOMER-SMITH
Checked
J. KOEHLER
Date
02/02/21

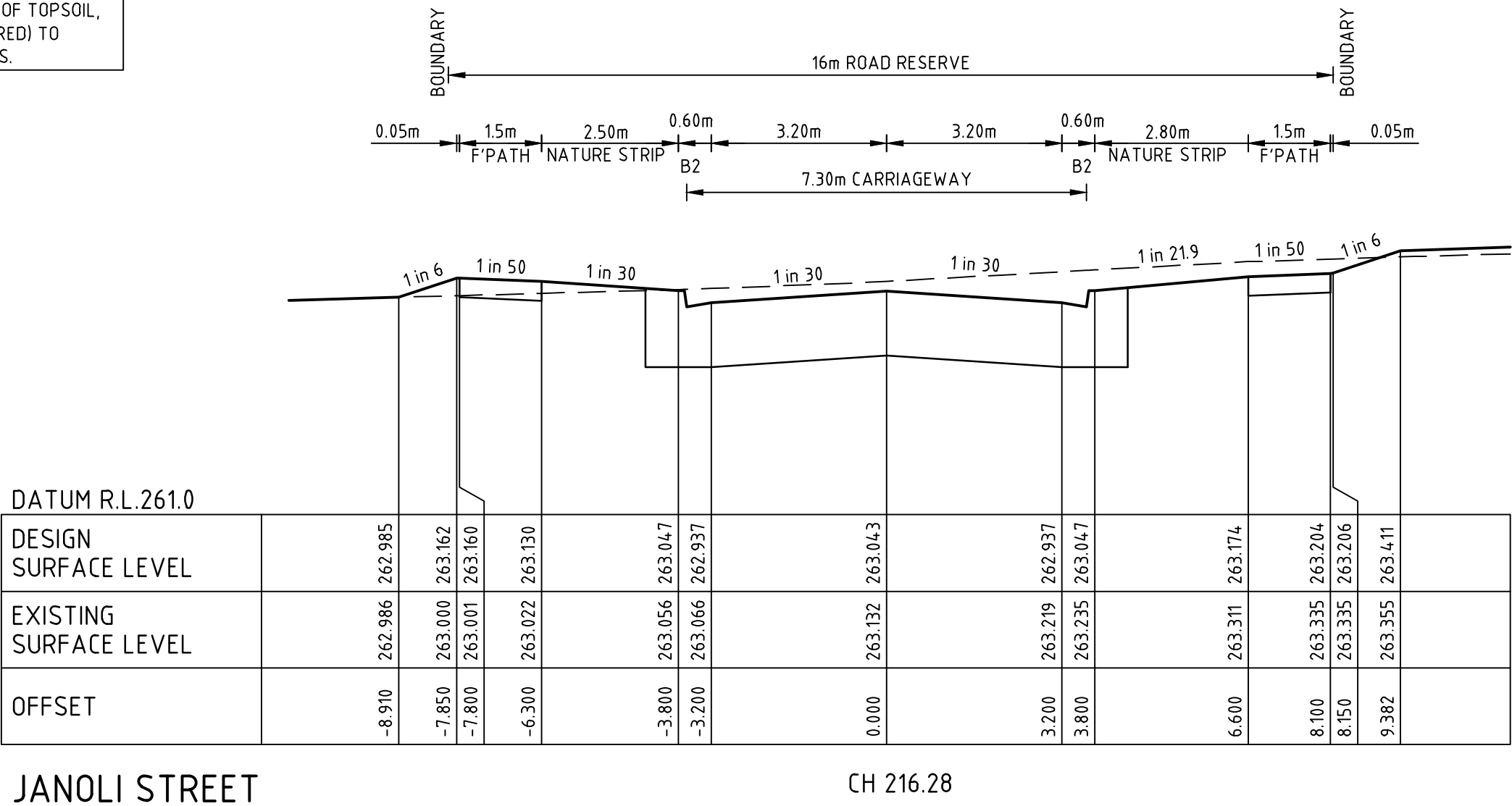
TRIJENA ESTATE
STAGE 12
ROAD AND DRAINAGE
ROAD CROSS SECTIONS - SHEET 2 OF 4
HUME CITY COUNCIL
PGG (MICKLEHAM) PTY LTD

AS CONSTRUCTED

Drg No
304015CR401
Rev
1

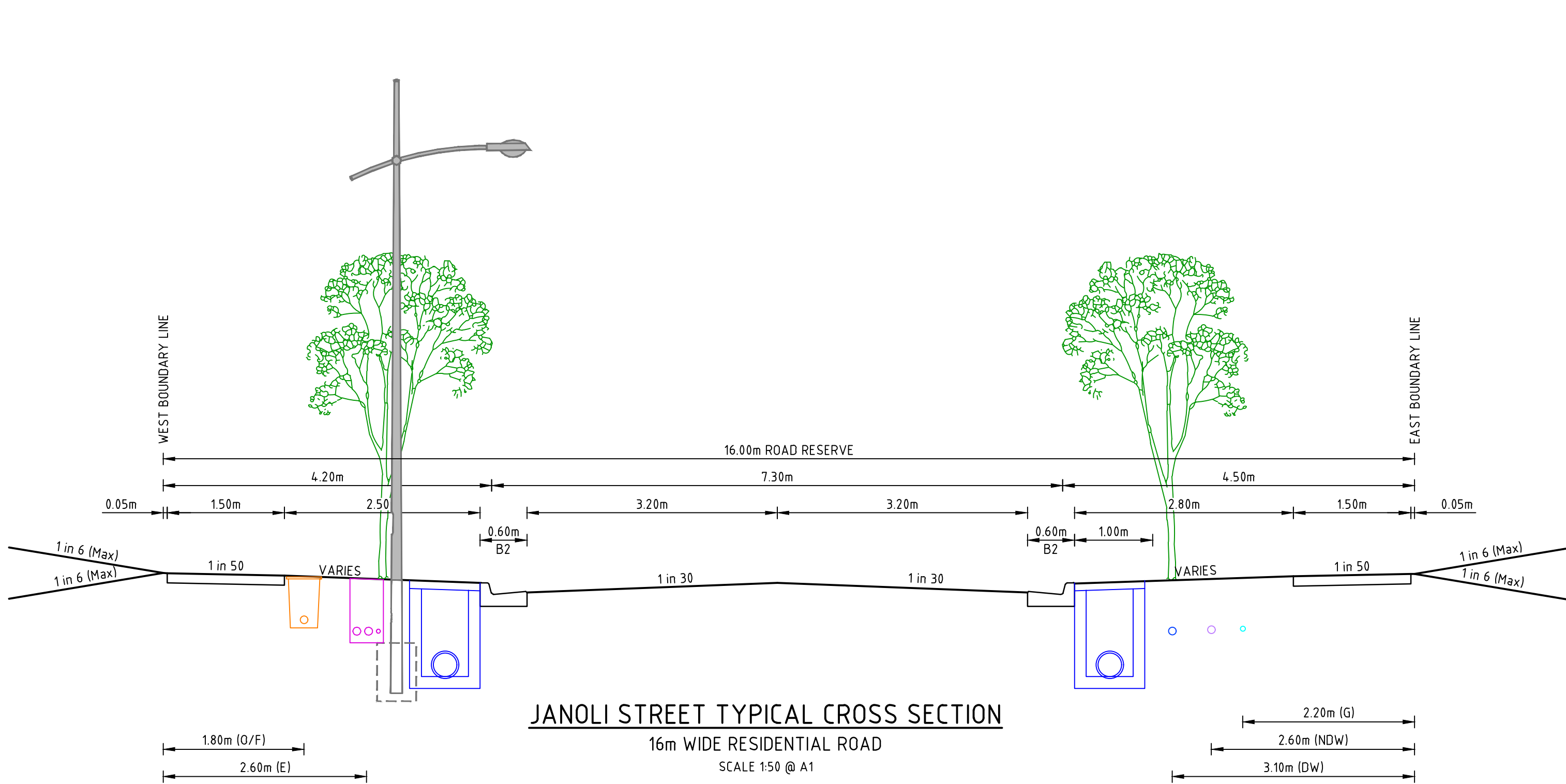
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FILLING NOTE
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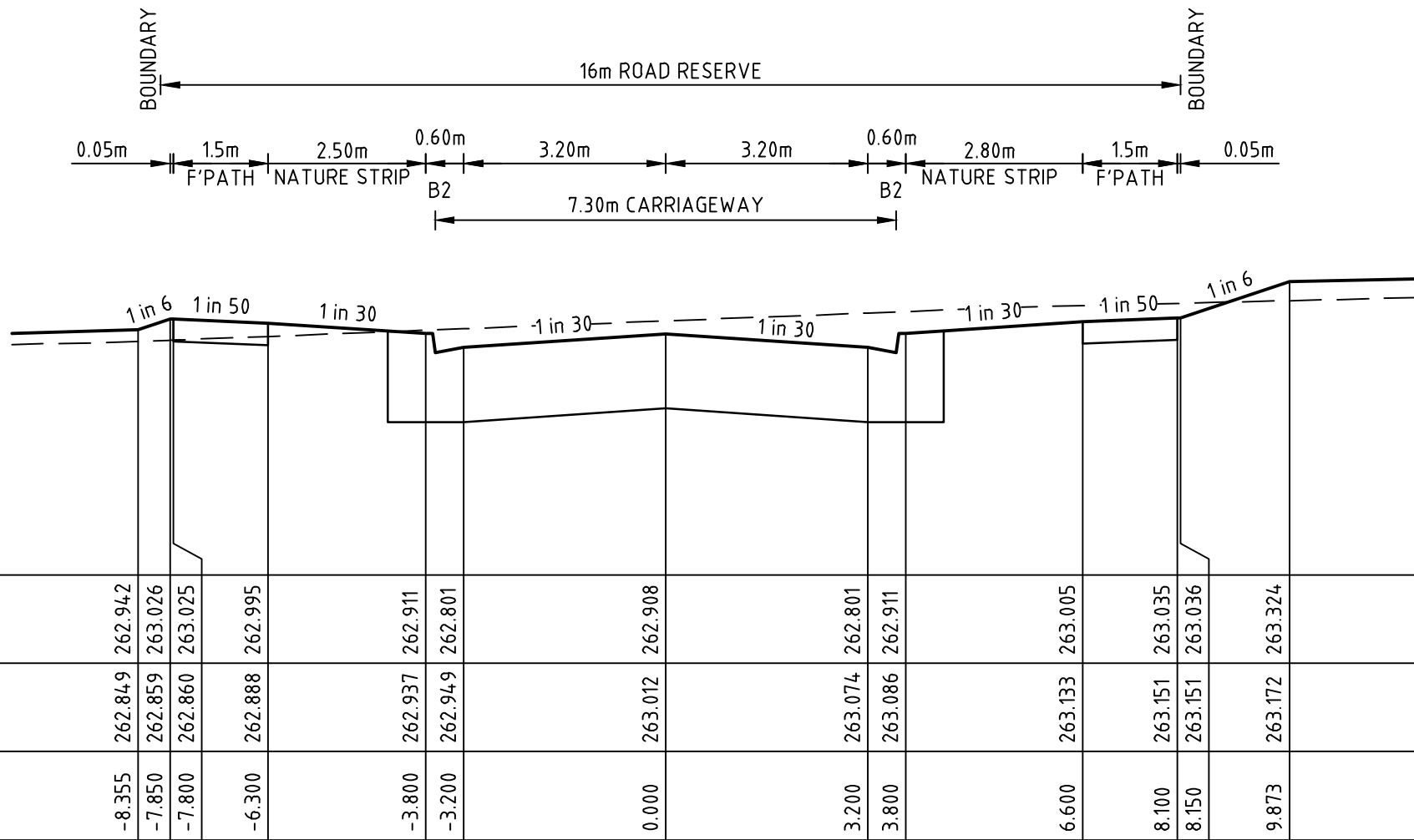


JANOLI STREET

CH 216.28

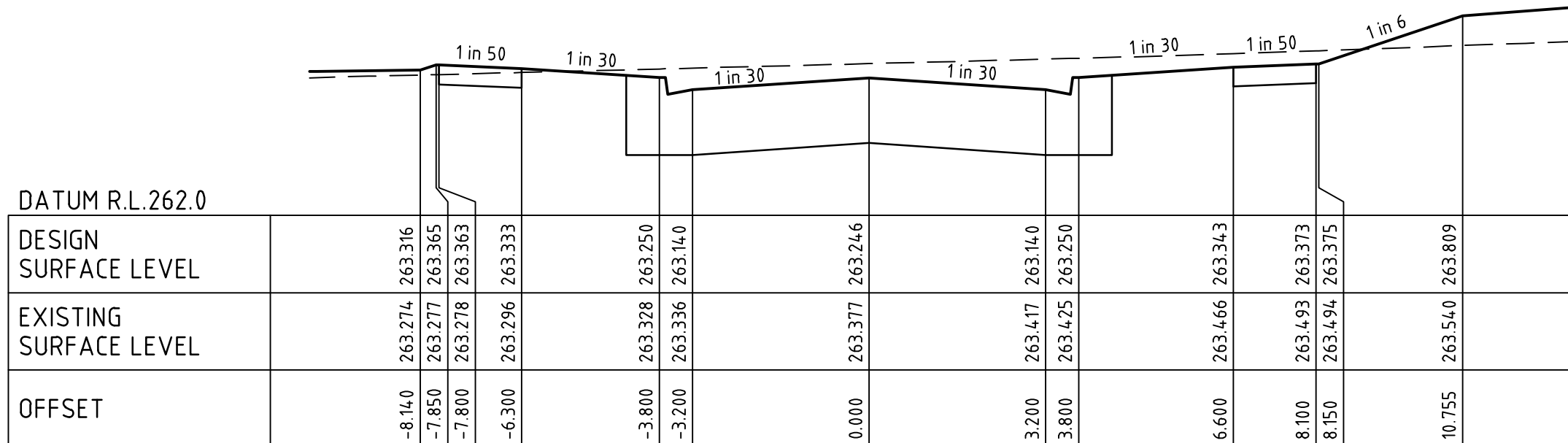


JANOLI STREET TYPICAL CROSS SECTION
16m WIDE RESIDENTIAL ROAD
SCALE 1:50 @ A1



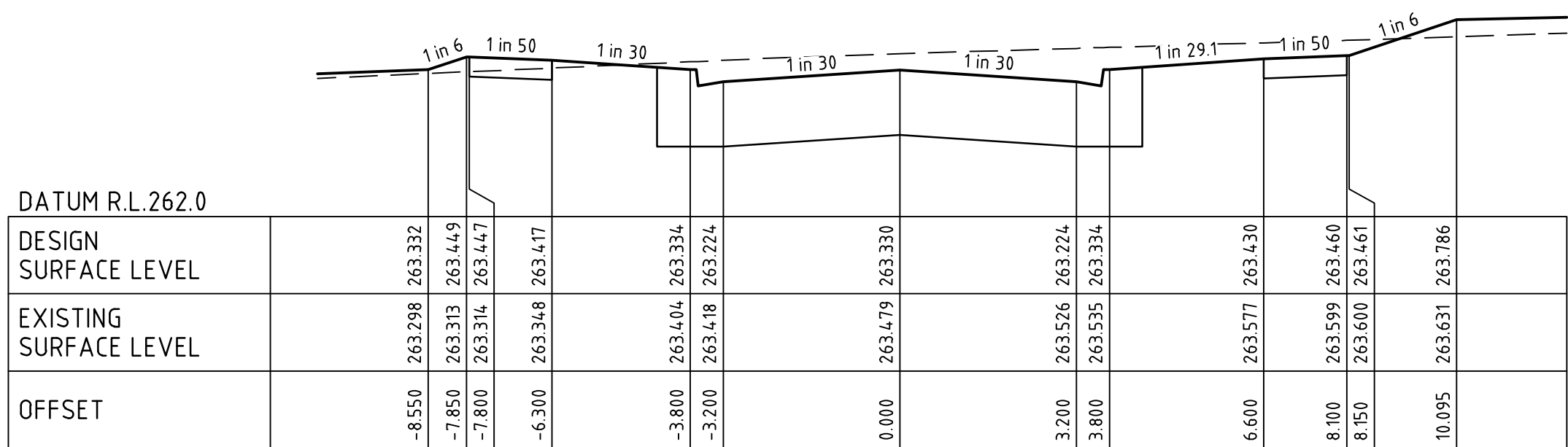
JANOLI STREET

CH 278.69



JANOLI STREET

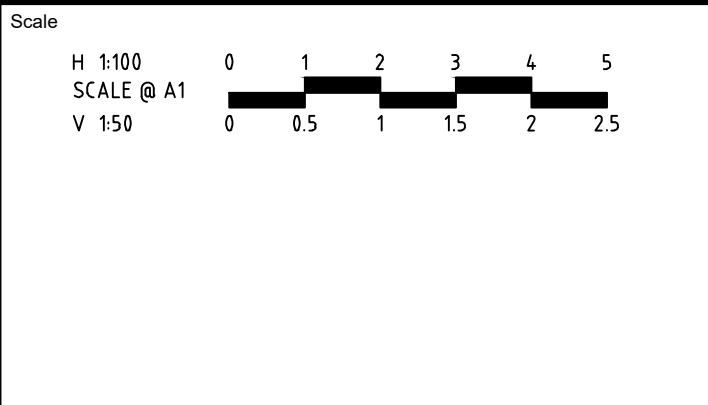
CH 256.14



JANOLI STREET

CH 236.83

1	AS CONSTRUCTED	R.W.	05/08/21
0	ISSUED FOR CONSTRUCTION	M.T.S.	02/02/21
A	ISSUED TO COUNCIL	M.T.S.	15/09/20
Rev	Amendments	Approved	Date





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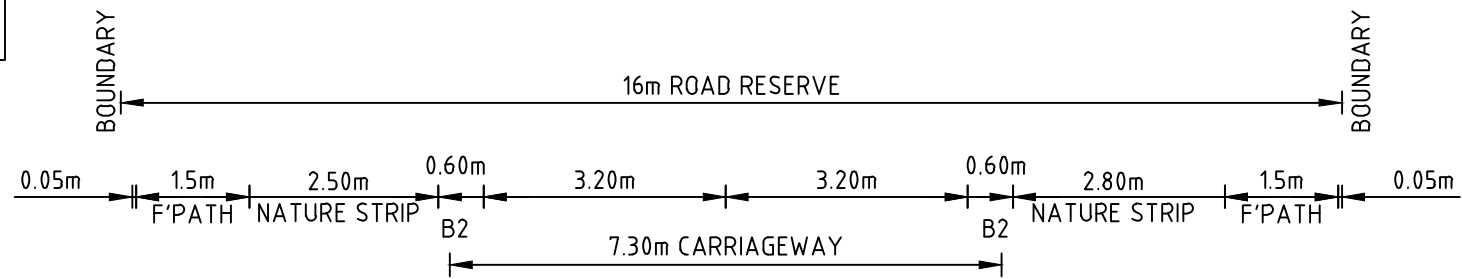
Designed
K. AYRES
Authorised
M. TOOMER-SMITH
Checked
J. KOEHLER
Date
02/02/21

**TRIJENA ESTATE
STAGE 12
ROAD AND DRAINAGE
ROAD CROSS SECTIONS - SHEET 3 OF 4
HUME CITY COUNCIL
PGG (MICKLEHAM) PTY LTD**

AS CONSTRUCTED

Drg No
304015CR402
Rev
1

FILLING NOTE
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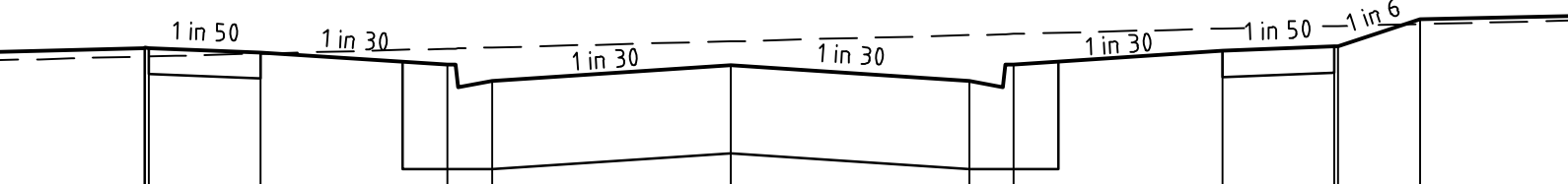


DATUM R.L.260.0

DESIGN SURFACE LEVEL	262.166	262.144	-8.118
EXISTING SURFACE LEVEL	262.121	262.147	-7.850
OFFSET	262.121	262.147	-7.850
DESIGN SURFACE LEVEL	262.090	262.163	-6.300
EXISTING SURFACE LEVEL	262.006	262.190	-3.800
OFFSET	262.006	262.190	-3.800
DESIGN SURFACE LEVEL	262.003	262.232	0.000
EXISTING SURFACE LEVEL	262.006	262.260	3.200
OFFSET	262.006	262.260	3.200
DESIGN SURFACE LEVEL	262.100	262.290	6.600
EXISTING SURFACE LEVEL	262.130	262.302	8.100
OFFSET	262.130	262.302	8.100
DESIGN SURFACE LEVEL	262.317	262.312	9.262
EXISTING SURFACE LEVEL	262.312	262.312	9.262
OFFSET	262.312	262.312	9.262

JANOLI STREET

CH 343.93

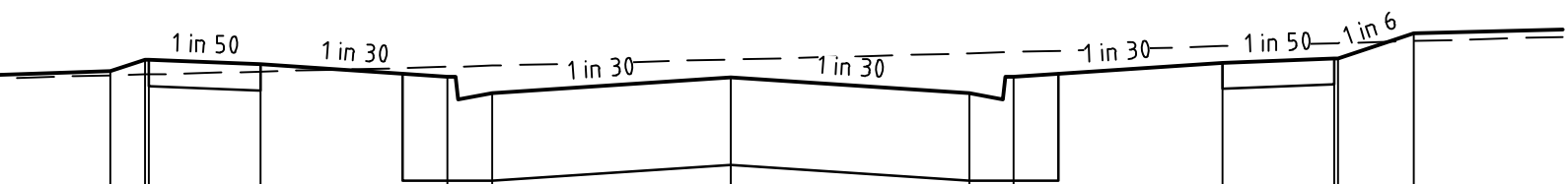


DATUM R.L.260.0

DESIGN SURFACE LEVEL	262.310	262.252	-7.861
EXISTING SURFACE LEVEL	262.312	262.252	-7.850
OFFSET	262.312	262.252	-7.850
DESIGN SURFACE LEVEL	262.280	262.272	-6.300
EXISTING SURFACE LEVEL	262.197	262.205	-3.800
OFFSET	262.197	262.205	-3.800
DESIGN SURFACE LEVEL	262.194	262.355	0.000
EXISTING SURFACE LEVEL	262.087	262.313	3.200
OFFSET	262.087	262.313	3.200
DESIGN SURFACE LEVEL	262.290	262.440	6.600
EXISTING SURFACE LEVEL	262.320	262.458	8.100
OFFSET	262.320	262.458	8.100
DESIGN SURFACE LEVEL	262.505	262.471	9.251
EXISTING SURFACE LEVEL	262.505	262.471	9.251
OFFSET	262.505	262.471	9.251

JANOLI STREET

CH 328.69

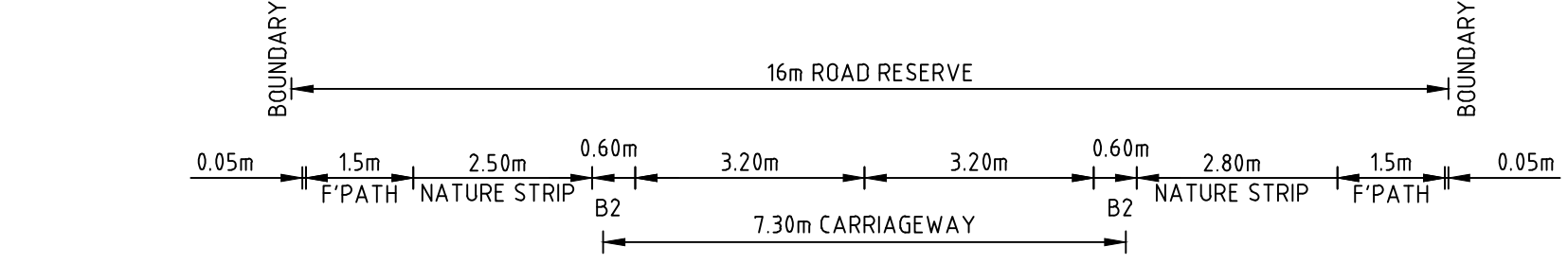


DATUM R.L.261.0

DESIGN SURFACE LEVEL	262.574	262.546	-8.317
EXISTING SURFACE LEVEL	262.651	262.552	-7.850
OFFSET	262.651	262.552	-7.850
DESIGN SURFACE LEVEL	262.620	262.572	-6.300
EXISTING SURFACE LEVEL	262.536	262.604	-3.800
OFFSET	262.536	262.604	-3.800
DESIGN SURFACE LEVEL	262.533	262.652	0.000
EXISTING SURFACE LEVEL	262.426	262.611	3.200
OFFSET	262.426	262.611	3.200
DESIGN SURFACE LEVEL	262.630	262.742	6.600
EXISTING SURFACE LEVEL	262.660	262.762	8.100
OFFSET	262.660	262.762	8.100
DESIGN SURFACE LEVEL	262.830	262.777	9.160
EXISTING SURFACE LEVEL	262.830	262.777	9.160
OFFSET	262.830	262.777	9.160

JANOLI STREET

CH 303.69

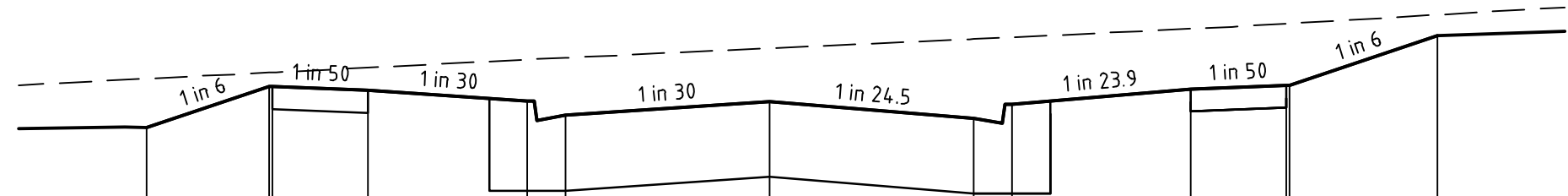


DATUM R.L.264.0

DESIGN SURFACE LEVEL	265.737	266.060	-7.850
EXISTING SURFACE LEVEL	266.060	266.124	-7.800
OFFSET	266.060	266.124	-7.800
DESIGN SURFACE LEVEL	265.945	266.226	-6.300
EXISTING SURFACE LEVEL	265.835	266.226	-3.800
OFFSET	265.835	266.226	-3.800
DESIGN SURFACE LEVEL	265.942	266.293	0.000
EXISTING SURFACE LEVEL	265.835	266.357	3.200
OFFSET	265.835	266.357	3.200
DESIGN SURFACE LEVEL	265.945	266.359	3.800
EXISTING SURFACE LEVEL	265.945	266.359	3.800
DESIGN SURFACE LEVEL	266.169	266.434	6.600
EXISTING SURFACE LEVEL	266.169	266.478	8.100
OFFSET	266.169	266.478	8.100
DESIGN SURFACE LEVEL	266.201	266.479	8.150
EXISTING SURFACE LEVEL	266.201	266.479	8.150
OFFSET	266.201	266.479	8.150

PIONEER WAY

CH 23.87

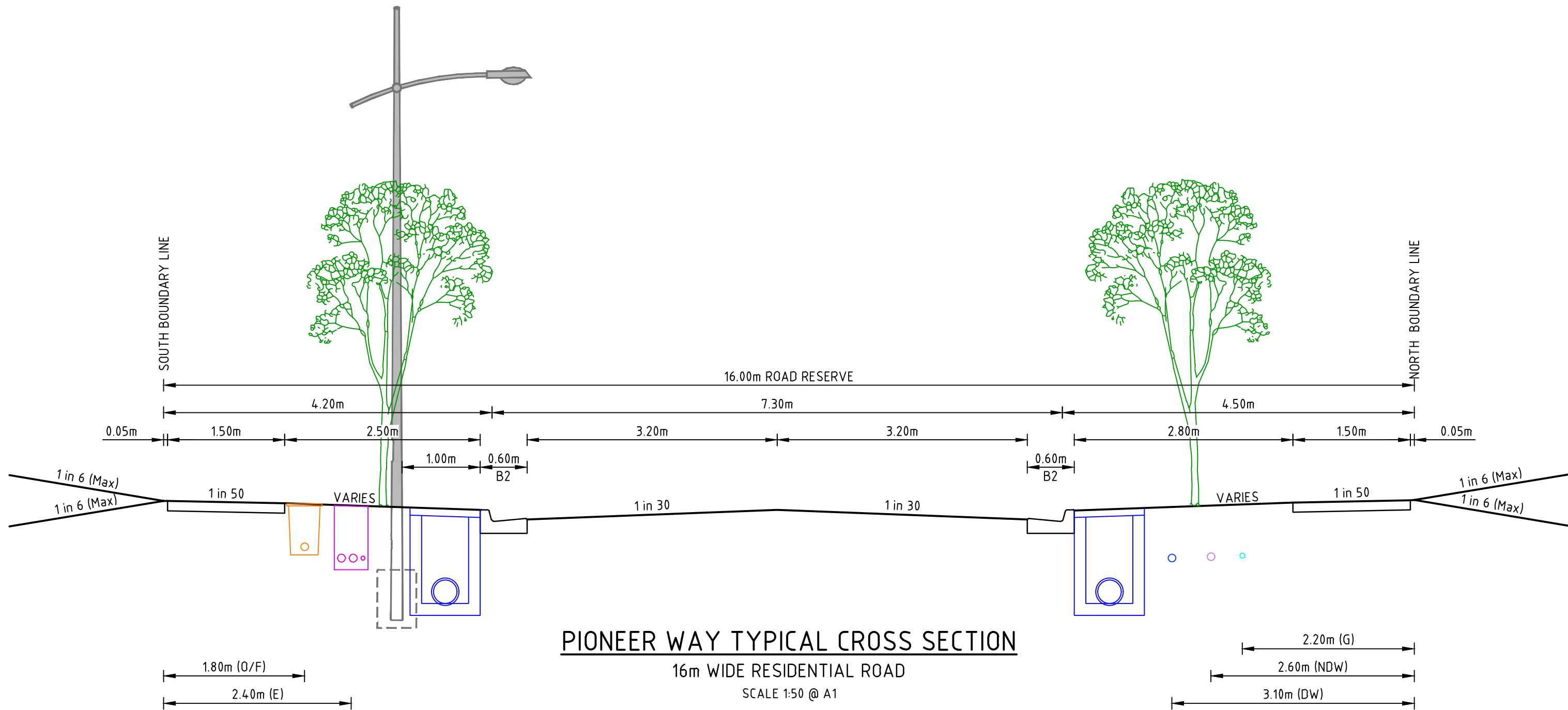


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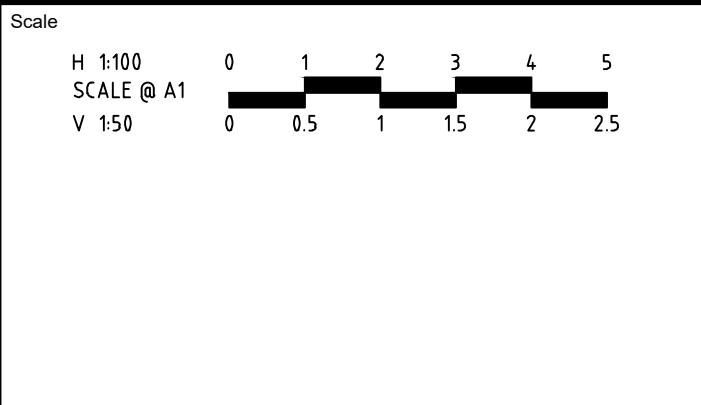
DESIGN SURFACE LEVEL	265.438	265.819	-9.775
EXISTING SURFACE LEVEL	265.759	265.868	-7.850
OFFSET	265.759	265.868	-7.850
DESIGN SURFACE LEVEL	265.727	265.907	-6.300
EXISTING SURFACE LEVEL	265.727	265.907	-6.300
DESIGN SURFACE LEVEL	265.644	265.970	-3.800
EXISTING SURFACE LEVEL	265.534	265.984	-3.200
OFFSET	265.534	265.984	-3.200
DESIGN SURFACE LEVEL	265.641	266.057	0.000
EXISTING SURFACE LEVEL	265.510	266.130	3.200
OFFSET	265.510	266.130	3.200
DESIGN SURFACE LEVEL	265.620	266.144	3.800
EXISTING SURFACE LEVEL	265.620	266.144	3.800
DESIGN SURFACE LEVEL	265.737	266.210	6.600
EXISTING SURFACE LEVEL	265.737	266.210	6.600
DESIGN SURFACE LEVEL	265.767	266.251	8.100
EXISTING SURFACE LEVEL	265.767	266.251	8.100
OFFSET	265.767	266.251	8.100

PIONEER WAY

CH 11.82



Rev	Amendments	Approved	Date
1	AS CONSTRUCTED	R.W.	05/08/21
0	ISSUED FOR CONSTRUCTION	M.T.S.	02/02/21
A	ISSUED TO COUNCIL	M.T.S.	15/09/20



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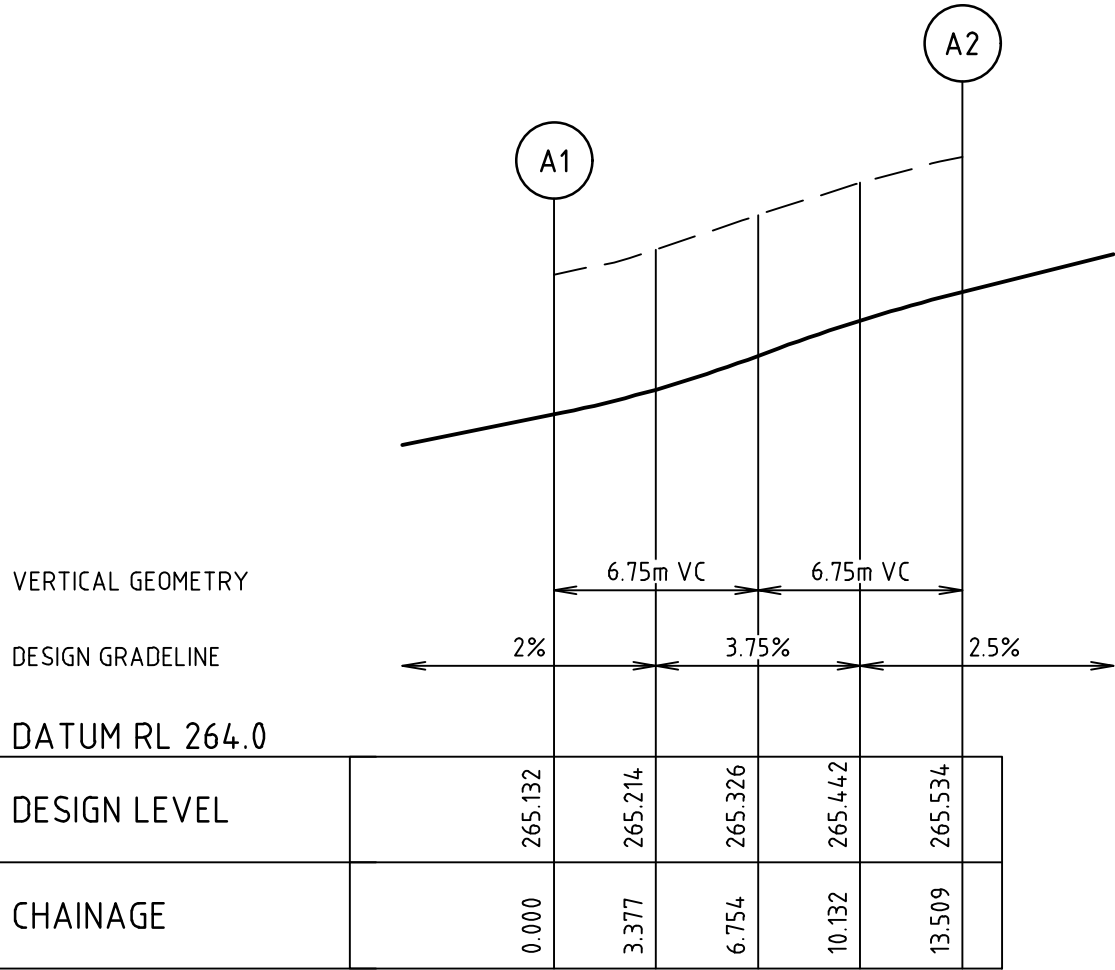
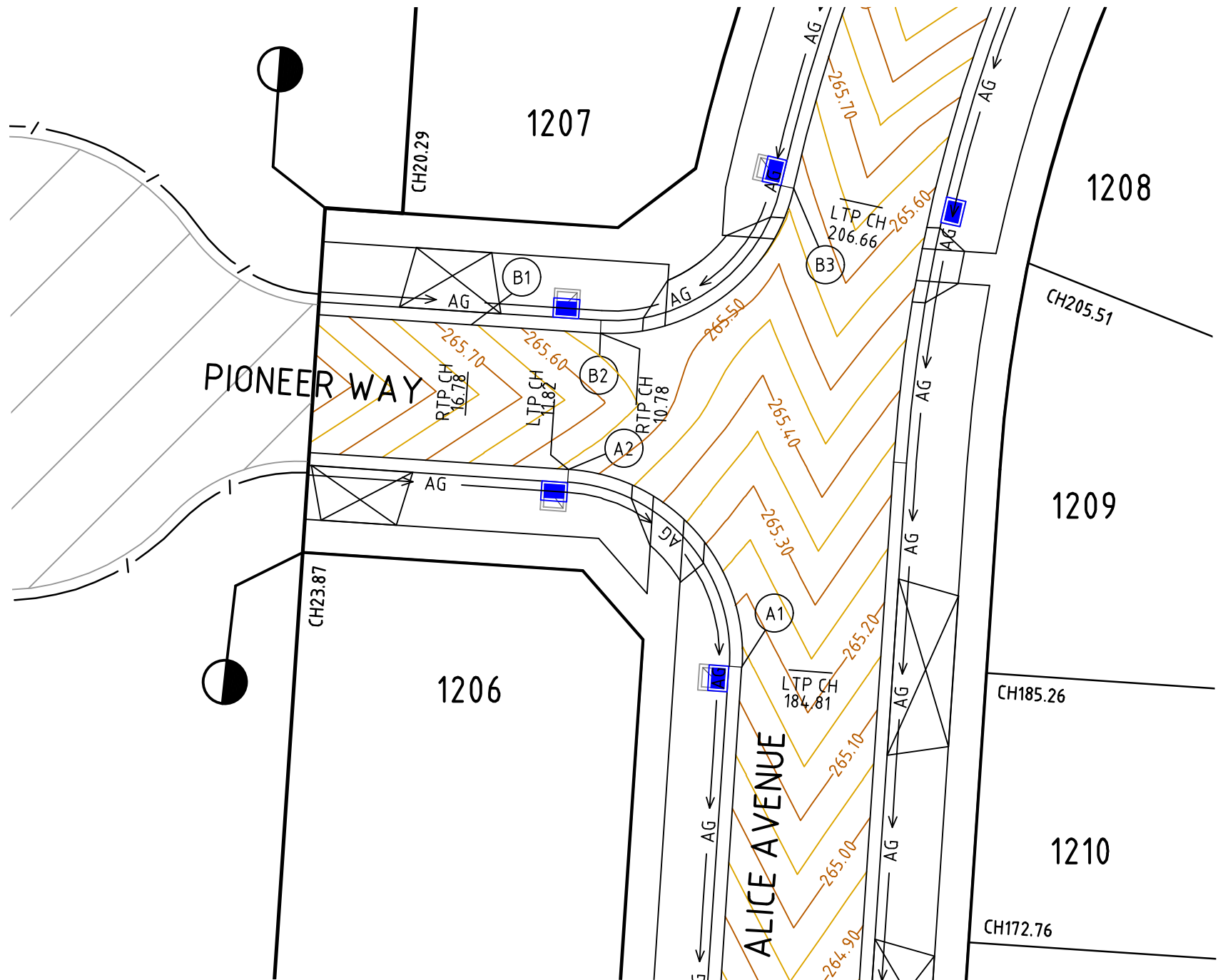
POTTER GEORGE
Designed
K. AYRES
Authorised
M. TOOMER-SMITH

TRIJENA
Checked
J. KOEHLER
Date
02/02/21

**TRIJENA ESTATE
STAGE 12
ROAD AND DRAINAGE
ROAD CROSS SECTIONS - SHEET 4 OF 4**
HUME CITY COUNCIL
PGG (MICKLEHAM) PTY LTD

AS CONSTRUCTED Drg No 304015CR403 Rev 1

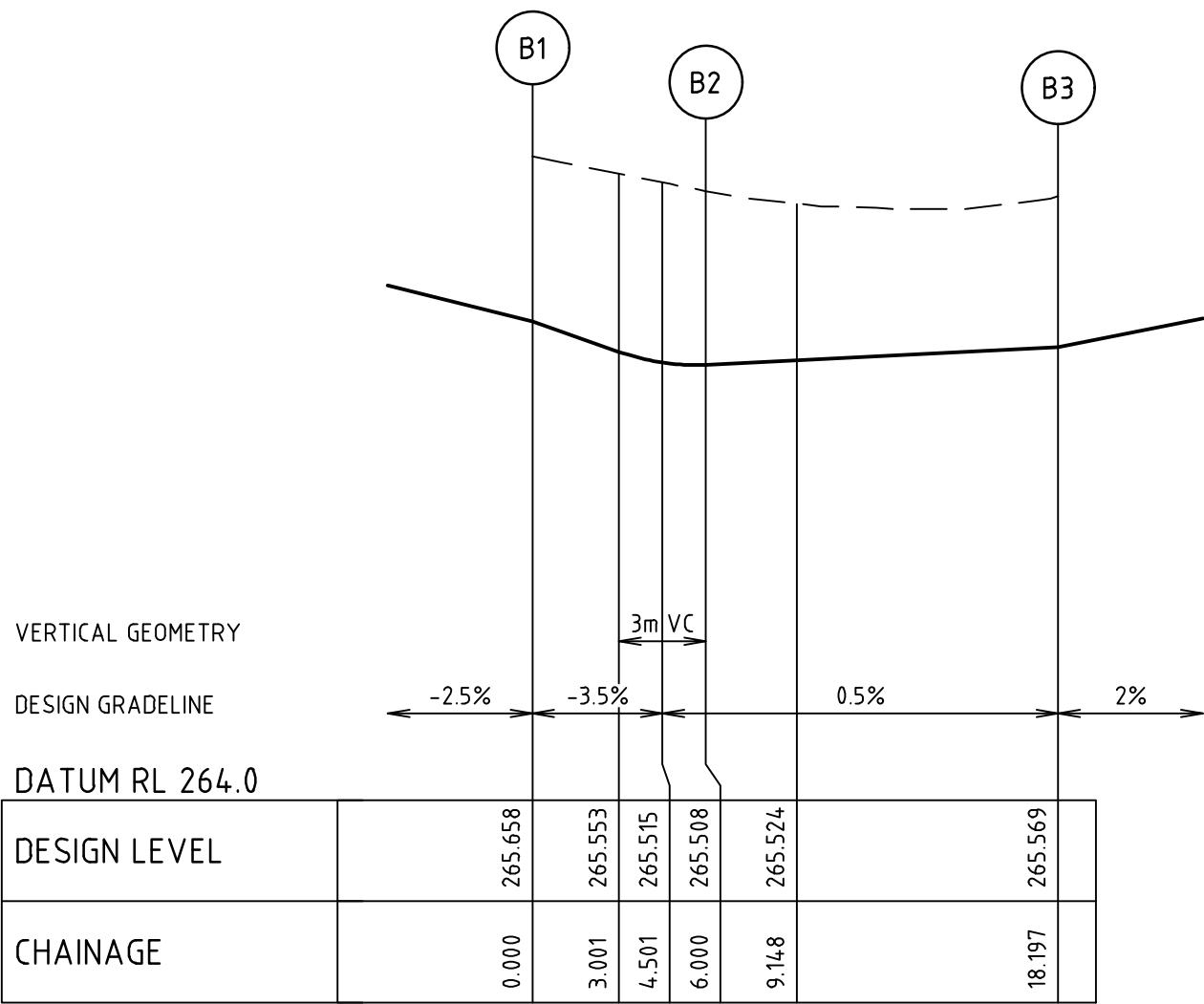
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ALIGNMENT A

ALIGNMENT A					
POINT NO	EASTING	NORTHING	RL		
A1	313808.961	5843451.978	265.132		
1/4	313808.525	5843455.305	265.214		
1/2	313808.849	5843458.212	265.326		
3/4	313804.188	5843460.256	265.442		
A2	313800.947	5843461.127	265.534		

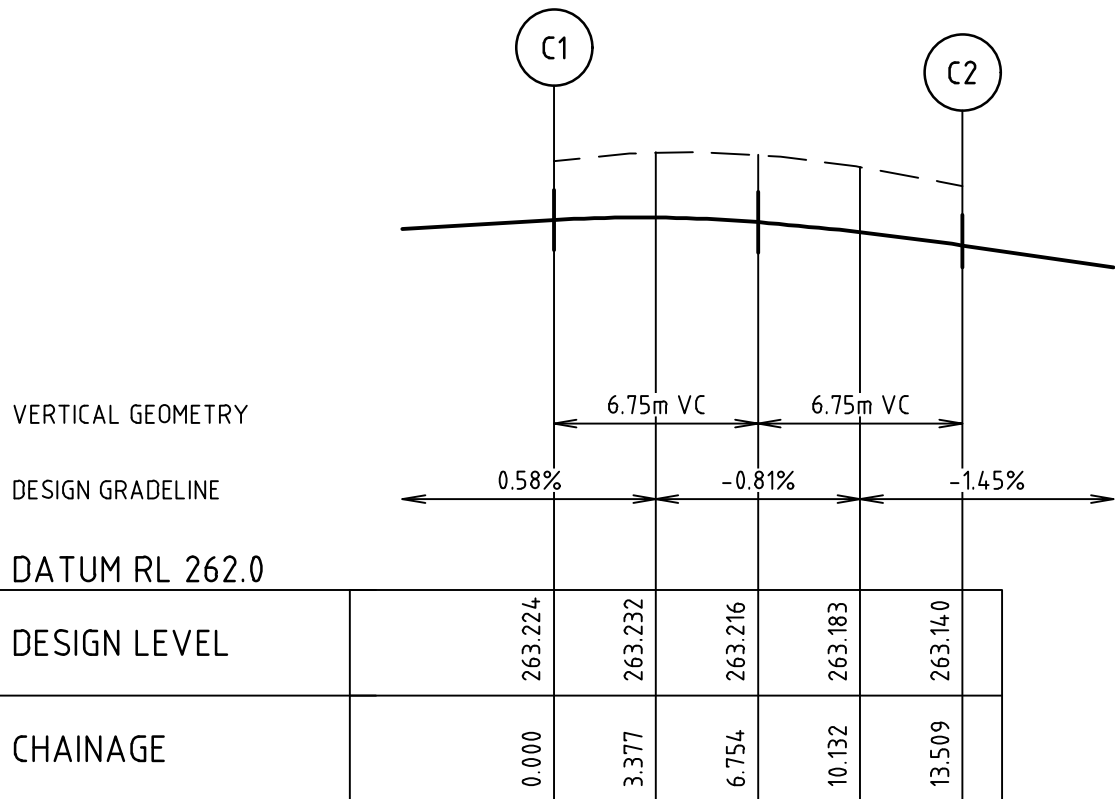
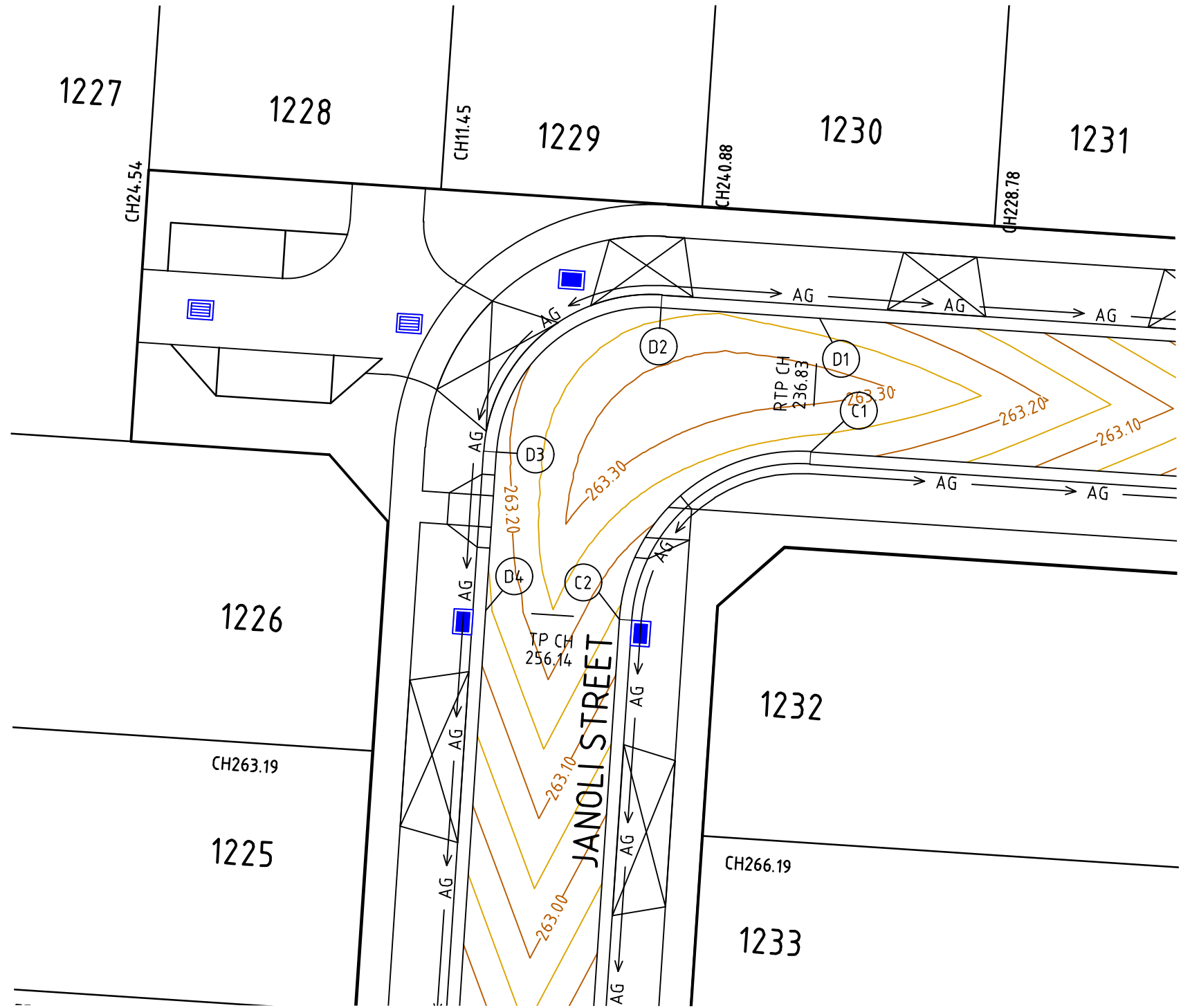
CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
A1-A2	8.600	13.509	12.162	2.519	-0.655



ALIGNMENT B

ALIGNMENT B					
POINT NO	EASTING	NORTHING	RL		
B1	313796.425	5843467.840	265.658		
B2	313802.412	5843467.444	265.508		
1/4	313805.427	5843467.781	265.523		
1/2	313808.137	5843469.143	265.538		
3/4	313810.205	5843471.361	265.554		
B3	313811.375	5843474.160	265.569		

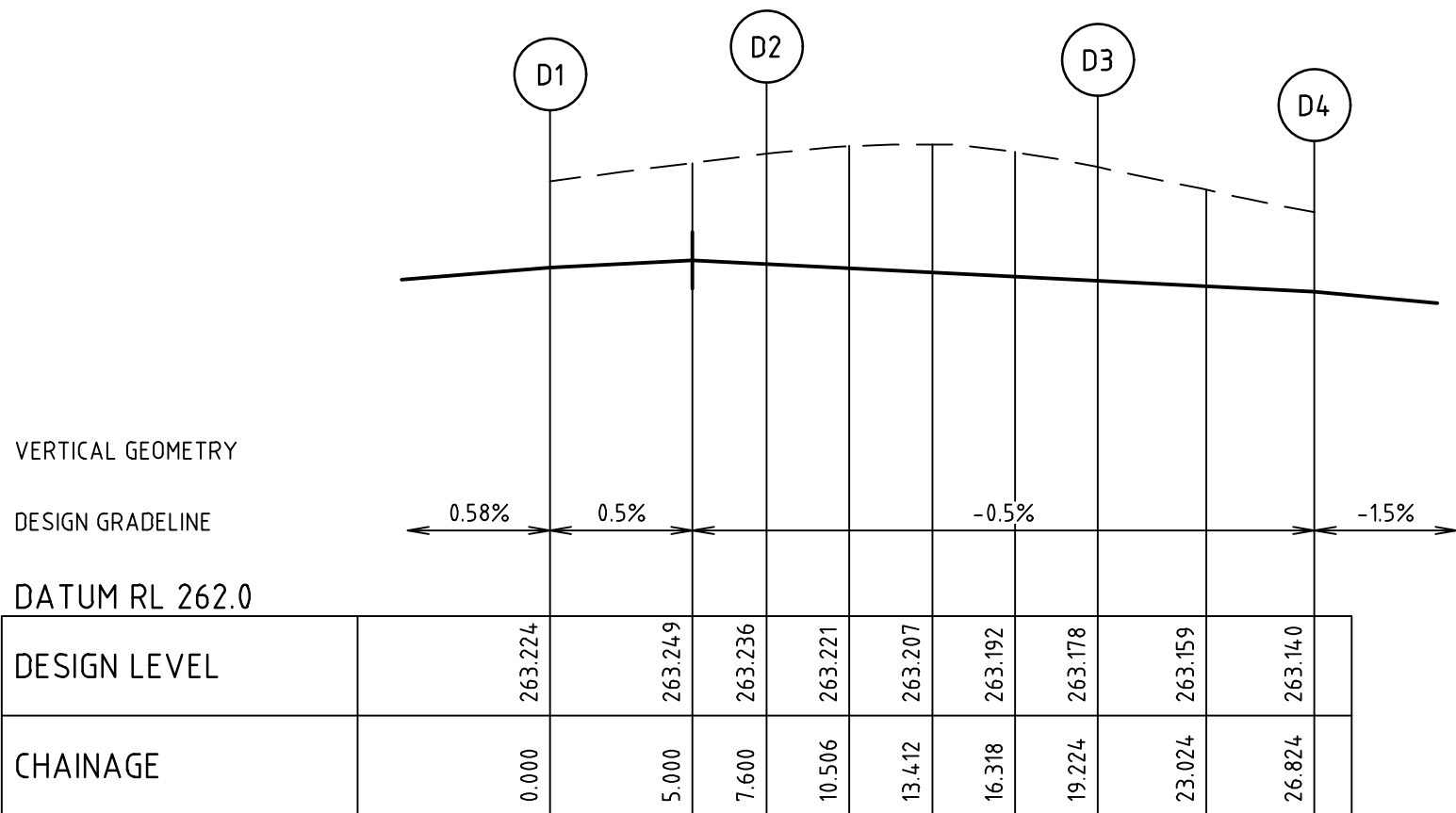
CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
B2-B3	8.600	12.197	11.200	2.073	-0.535



ALIGNMENT C

ALIGNMENT C					
POINT NO	EASTING	NORTHING	RL		
C1	313898.551	5843423.108	263.224		
1/4	313895.224	5843422.672	263.232		
1/2	313892.317	5843420.996	263.216		
3/4	313890.273	5843418.335	263.183		
C2	313889.403	5843415.094	263.140		

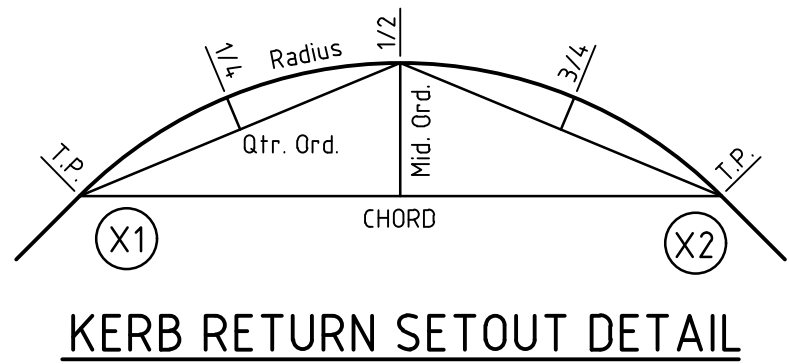
CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
C1-C2	8.600	13.509	12.162	2.519	-0.655



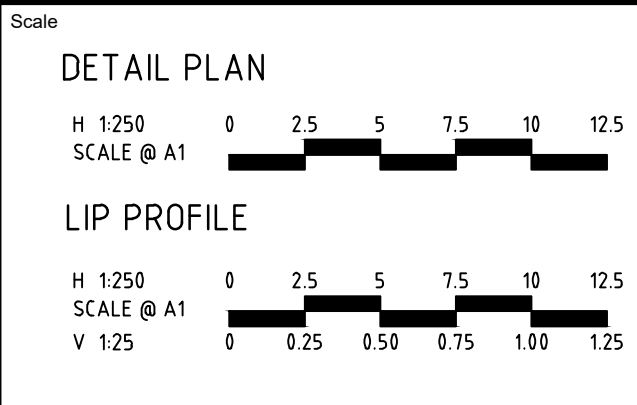
ALIGNMENT D

ALIGNMENT D					
POINT NO	EASTING	NORTHING	RL		
D1	313898.974	5843429.494	263.224		
D2	313891.390	5843429.996	263.236		
1/4	313888.527	5843429.621	263.221		
1/2	313886.026	5843428.178	263.207		
3/4	313884.267	5843425.889	263.192		
D3	313883.518	5843423.100	263.178		
D4	313883.017	5843415.517	263.140		

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
D2-D3	7.400	11.624	10.465	2.167	-0.563



Rev	Amendments	Approved	Date
1	AS CONSTRUCTED	R.W.	05/08/21
0	ISSUED FOR CONSTRUCTION	M.T.S.	02/02/21
B	KERB RETURNS UPDATED	M.T.S.	05/11/20
A	ISSUED TO COUNCIL	M.T.S.	15/09/20



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Designed
K. AYRES
Authorised
M. TOOMER-SMITH

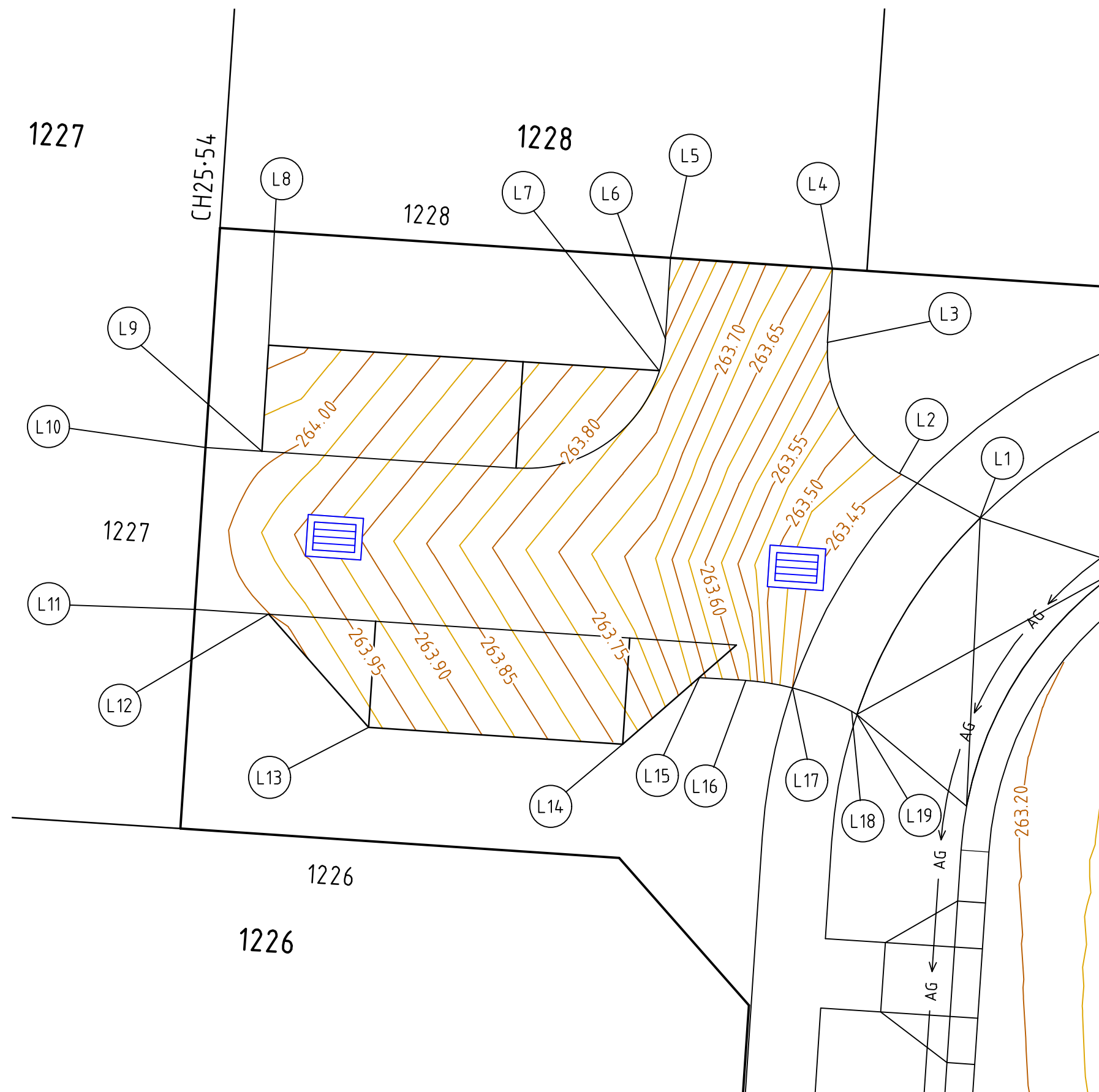


Checked
J. KOEHLER
Date
02/02/21

**TRIJEANA ESTATE
STAGE 12
ROAD AND DRAINAGE
INTERSECTION DETAILS - SHEET 1 OF 2**
HUME CITY COUNCIL
PGG (MICKLEHAM) PTY LTD

AS CONSTRUCTED Drg No 304015CR500 Rev 1

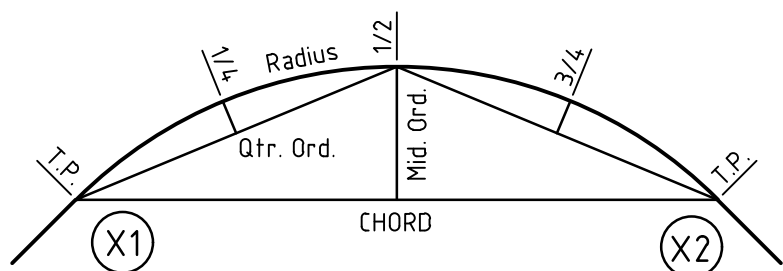
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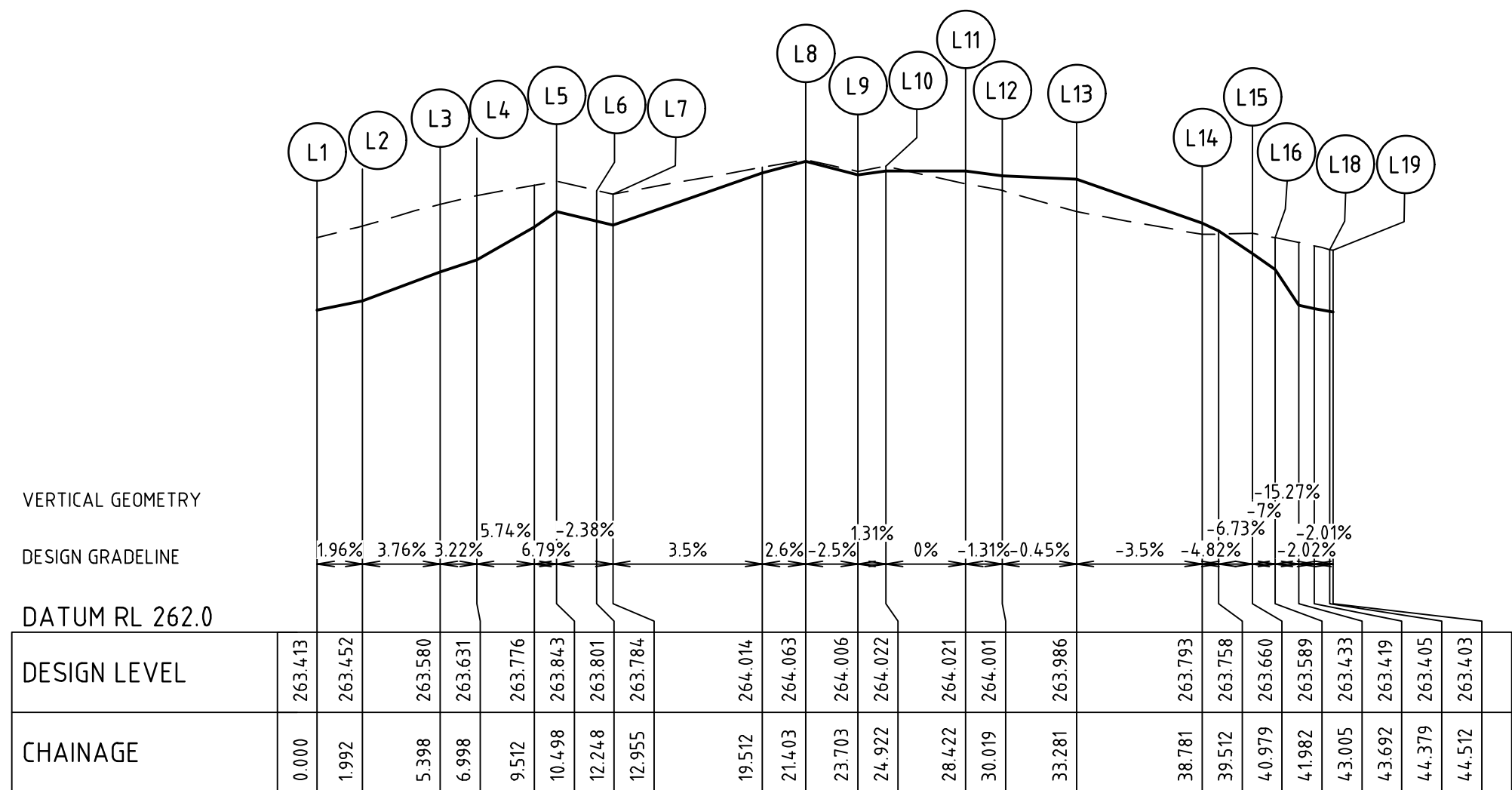
ALIGNMENT L

POINT NO	EASTING	NORTHING	RL
L1	313883.334	5843430.317	263.413
L2	313881.587	5843431.275	263.452
1/4	313880.908	5843431.784	263.484
1/2	313880.399	5843432.463	263.516
3/4	313880.101	5843433.257	263.548
L3	313880.037	5843434.103	263.580
L4	313880.142	5843435.700	263.631
L5	313876.650	5843435.931	263.843
L6	313876.534	5843434.185	263.801
1/4	313876.517	5843434.009	263.797
1/2	313876.490	5843433.835	263.793
3/4	313876.453	5843433.662	263.789
L7	313876.405	5843433.492	263.784
L8	313867.975	5843434.050	264.063
L9	313867.823	5843431.755	264.006
L10	313866.608	5843431.835	264.022
L11	313866.377	5843428.343	264.021
L12	313867.971	5843428.237	264.001
L13	313870.126	5843425.790	263.986
L14	313875.614	5843425.427	263.793
L15	313877.272	5843426.871	263.660
L16	313878.273	5843426.804	263.589
1/4	313878.528	5843426.782	263.550
1/2	313878.781	5843426.747	263.511
3/4	313879.032	5843426.701	263.472
L17	313879.281	5843426.643	263.433
1/4	313879.611	5843426.547	263.426
1/2	313879.934	5843426.430	263.419
3/4	313880.249	5843426.294	263.412
L18	313880.555	5843426.138	263.405
L19	313880.672	5843426.074	263.403

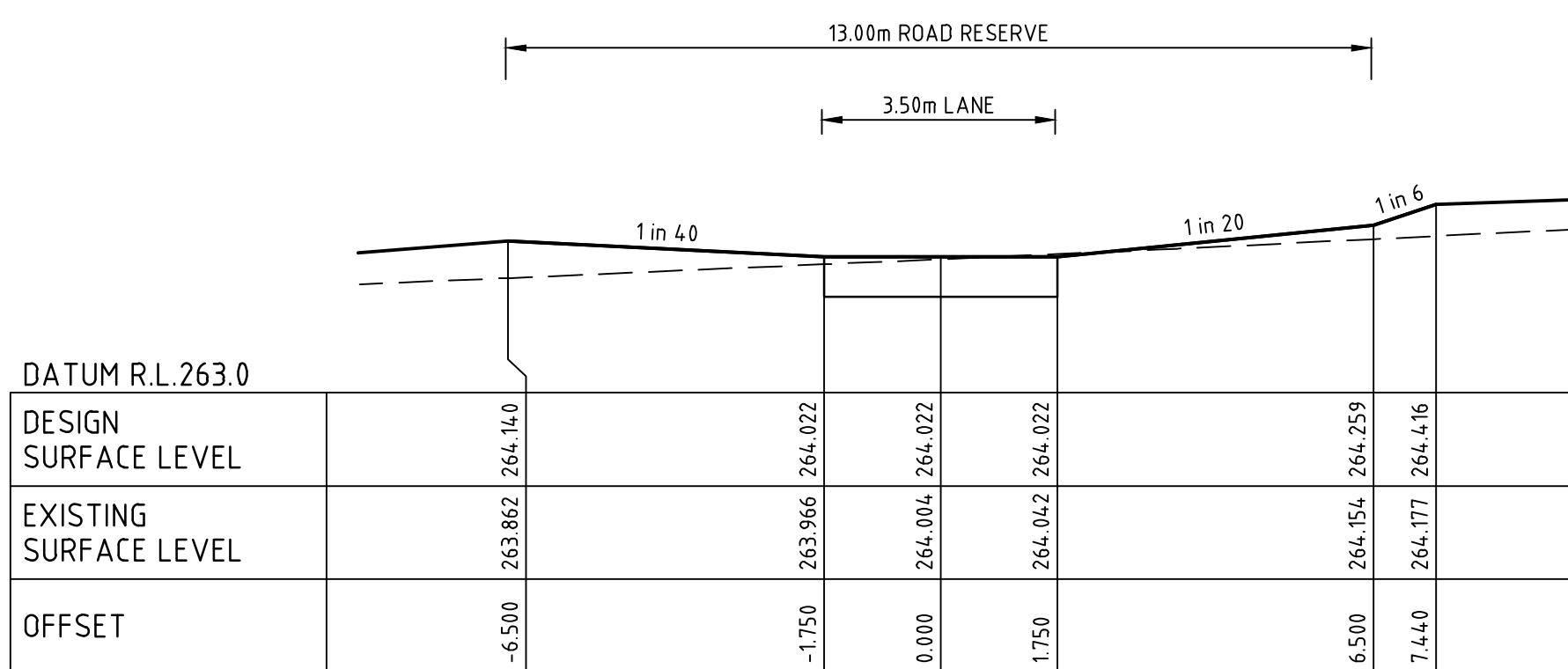
CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
L2-L3	3.000	3.405	3.225	0.470	0.120
L6-L7	3.000	0.707	0.705	0.021	0.005
L16-L17	5.500	1.023	1.021	0.024	0.006
L17-L18	5.500	1.374	1.370	0.043	0.011



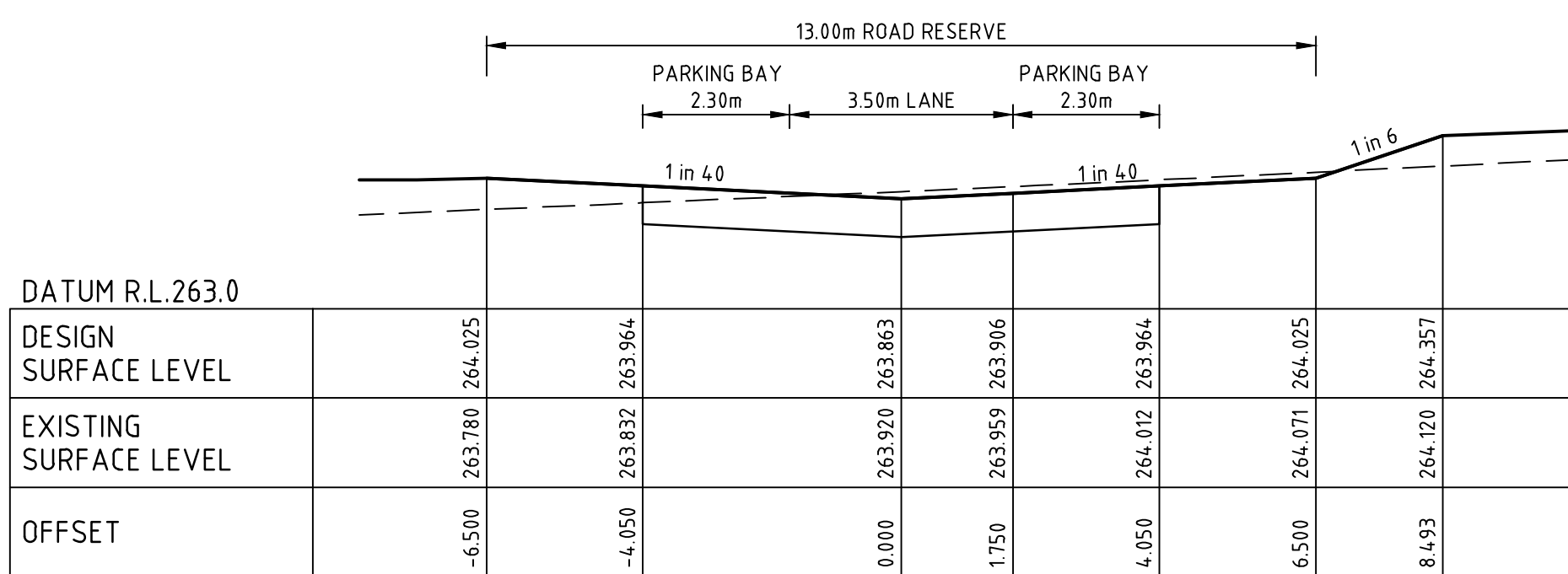
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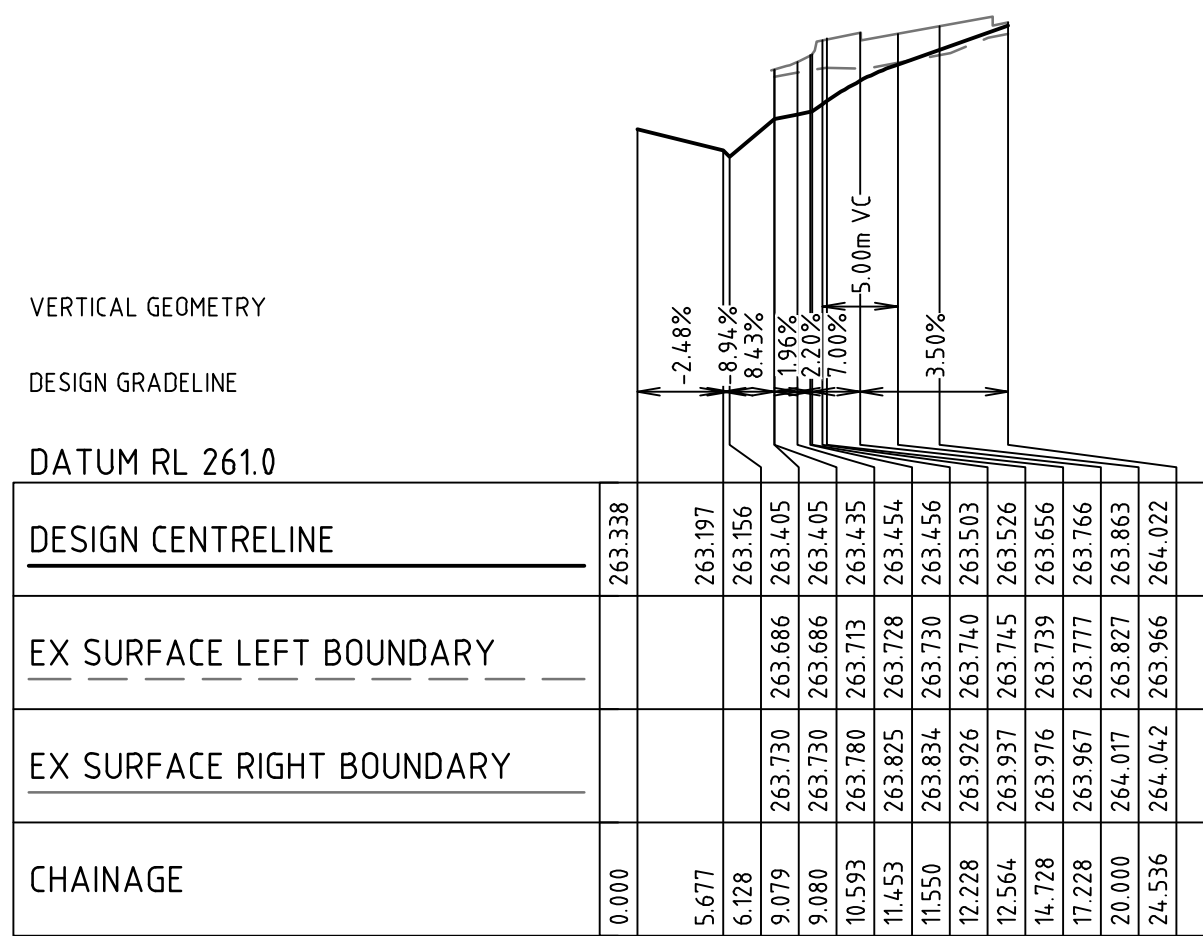
EXTENDED DRIVEWAY



EXTENDED DRIVEWAY

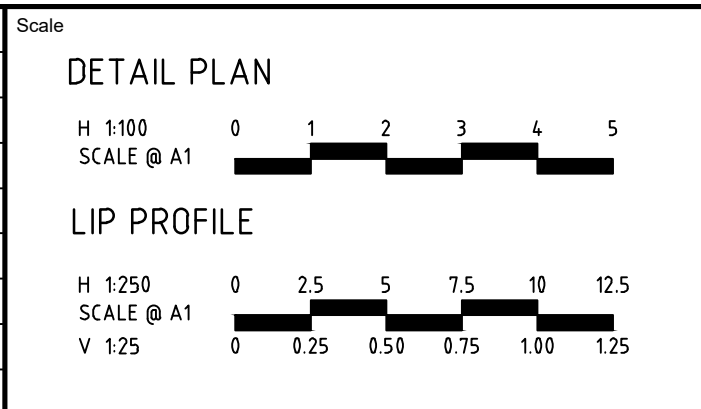


EXTENDED DRIVEWAY



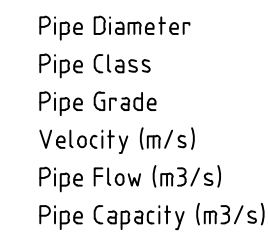
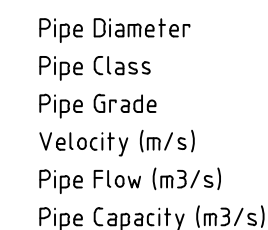
EXTENDED DRIVEWAY

Rev	Amendments	Approved	Date
1	AS CONSTRUCTED	R.W.	05/08/21
0	ISSUED FOR CONSTRUCTION	M.T.S.	02/02/21
C	VERTICAL CURVE ADDED TO EXTENDED DRIVEWAY	M.T.S.	19/01/21
B	EXTENDED DRIVEWAY ALIGNMENT AMENDED, BARRIER KERBS REMOVED	M.T.S.	10/12/20
A	ISSUED TO COUNCIL	M.T.S.	15/09/20



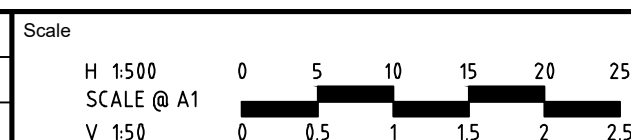
Designed K. AYRES	Checked J. KOEHLER
Authorised M. TOOMER-SMITH	Date 02/02/21

TRIJENA ESTATE STAGE 12 ROAD AND DRAINAGE INTERSECTION DETAILS - SHEET 2 OF 2 HUME CITY COUNCIL PGG (MICKLEHAM) PTY LTD	As Constructed 304015CR501	Rev 1
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[illegible][illegible]

DATUM	260.00										261.00										260.00										258.00										258.00									
DEPTH TO INVERT	266.139 266.139 263.210 262.645 3.064 263.294 262.695 3.014										266.663 266.482 265.079 264.609 1.873 265.036 265.257 1.225										266.663 266.482 265.079 264.609 1.873 265.036 265.257 1.225										266.663 266.482 265.079 264.609 1.873 265.036 265.257 1.225										266.663 266.482 265.079 264.609 1.873 265.036 265.257 1.225									
DESIGN INVERT LEVEL	263.310 262.722 2.983 263.347 262.772 2.933										263.310 262.722 2.983 263.347 262.772 2.933										263.310 262.722 2.983 263.347 262.772 2.933										263.310 262.722 2.983 263.347 262.772 2.933										263.310 262.722 2.983 263.347 262.772 2.933									
HYDRAULIC GRADE LEVEL	265.874 265.705 263.310 262.722 2.983 263.347 262.772 2.933										265.874 265.705 263.310 262.722 2.983 263.347 262.772 2.933										265.874 265.705 263.310 262.722 2.983 263.347 262.772 2.933										265.874 265.705 263.310 262.722 2.983 263.347 262.772 2.933										265.874 265.705 263.310 262.722 2.983 263.347 262.772 2.933									
FINISHED SURFACE LEVEL	266.338 266.241 263.386 262.840 3.401										266.338 266.241 263.386 262.840 3.401										266.338 266.241 263.386 262.840 3.401										266.338 266.241 263.386 262.840 3.401										266.338 266.241 263.386 262.840 3.401									
EXISTING SURFACE LEVEL	266.139 266.139 263.210 262.645 3.064 263.294 262.695 3.014										266.663 266.482 265.079 264.609 1.873 265.036 265.257 1.225										266.663 266.482 265.079 264.609 1.873 265.036 265.257 1.225										266.663 266.482 265.079 264.609 1.873 265.036 265.257 1.225										266.663 266.482 265.079 264.609 1.873 265.036 265.257 1.225									
CHAINAGE	0.000 L=8.500m 8.500 L=20.935m 20.935										0.000 L=4.600m 4.600 L=18.843m 18.843 23.442										0.000 L=10.417m 10.417 L=4.018m 4.018 14.435 51.700m 66.185										0.000 L=32.509m 32.509 L=8.027m 8.027 40.536 L=10.000m 50.536										0.000 L=90.296m 90.296 L=11.827m 11.827 103.123									
	266.521 266.152 264.911 264.536 1.616 265.019 264.586 1.566										266.521 266.152 264.911 264.536 1.616 265.019 264.586 1.566										266.521 266.152 264.911 264.536 1.616 265.019 264.586 1.566										266.521 266.152 264.911 264.536 1.616 265.019 264.586 1.566										266.521 266.152 264.911 264.536 1.616 265.019 264.586 1.566									
	266.362 266.367 263.512 263.287 1.080										266.362 266.367 263.512 263.287 1.080										266.362 266.367 263.512 263.287 1.080										266.362 266.367 263.512 263.287 1.080										266.362 266.367 263.512 263.287 1.080									
	265.247 265.067 261.805 261.500 1.567										265.247 265.067 261.805 261.500 1.567										265.247 265.067 261.805 261.500 1.567										265.247 265.067 261.805 261.500 1.567										265.247 265.067 261.805 261.500 1.567									
	263.696 263.381 262.175 261.825 1.556 262.135 261.875 1.506										263.696 263.381 262.175 261.825 1.556 262.135 261.875 1.506										263.696 263.381 262.175 261.825 1.556 262.135 261.875 1.506										263.696 263.381 262.175 261.825 1.556 262.135 261.875 1.506										263.696 263.381 262.175 261.825 1.556 262.135 261.875 1.506									
	263.766 263.463 262.243 261.943 1.519 262.245 261.993 1.469										263.766 263.463 262.243 261.943 1.519 262.245 261.993 1.469										263.766 263.463 262.243 261.943 1.519 262.245 261.993 1.469										263.766 263.463 262.243 261.943 1.519 262.245 261.993 1.469										263.766 263.463 262.243 261.943 1.519 262.245 261.993 1.469									
	263.950 263.920 262.704 262.404 1.516 262.716										263.950 263.920 262.704 262.404 1.516 262.716										263.950 263.920 262.704 262.404 1.516 262.716										263.950 263.920 262.704 262.404 1.516 262.716										263.950 263.920 262.704 262.404 1.516 262.716									
	265.620 265.620 261.807 261.381 1.239										265.620 265.620 261.807 261.381 1.239										265.620 265.620 261.807 261.381 1.239										265.620 265.620 261.807 261.381 1.239										265.620 265.620 261.807 261.381 1.239									
	263.996 264.037 262.770 262.284 1.153 262.779 262.334 1.103										263.996 264.037 262.770 262.284 1.153 262.779 262.334 1.103										263.996 264.037 262.770 262.284 1.153 262.779 262.334 1.103										263.996 264.037 262.770 262.284 1.153 262.779 262.334 1.103										263.996 264.037 262.770 262.284 1.153 262.779 262.334 1.103									

1	AS CONSTRUCTED	R.W.	05/08/21
0	ISSUED FOR CONSTRUCTION	M.T.S.	02/02/21
C	DRAINAGE ALIGNMENT UPDATED	M.T.S.	19/01/21
B	DRAINAGE NETWORK & PIPE CLASSES AMENDED	M.T.S.	05/11/20
A	ISSUED TO COUNCIL	M.T.S.	15/09/20
Rev	Amendments	Approved	Date



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Designed
K. AYRES
Authorised
M. TOOMER-SMITH



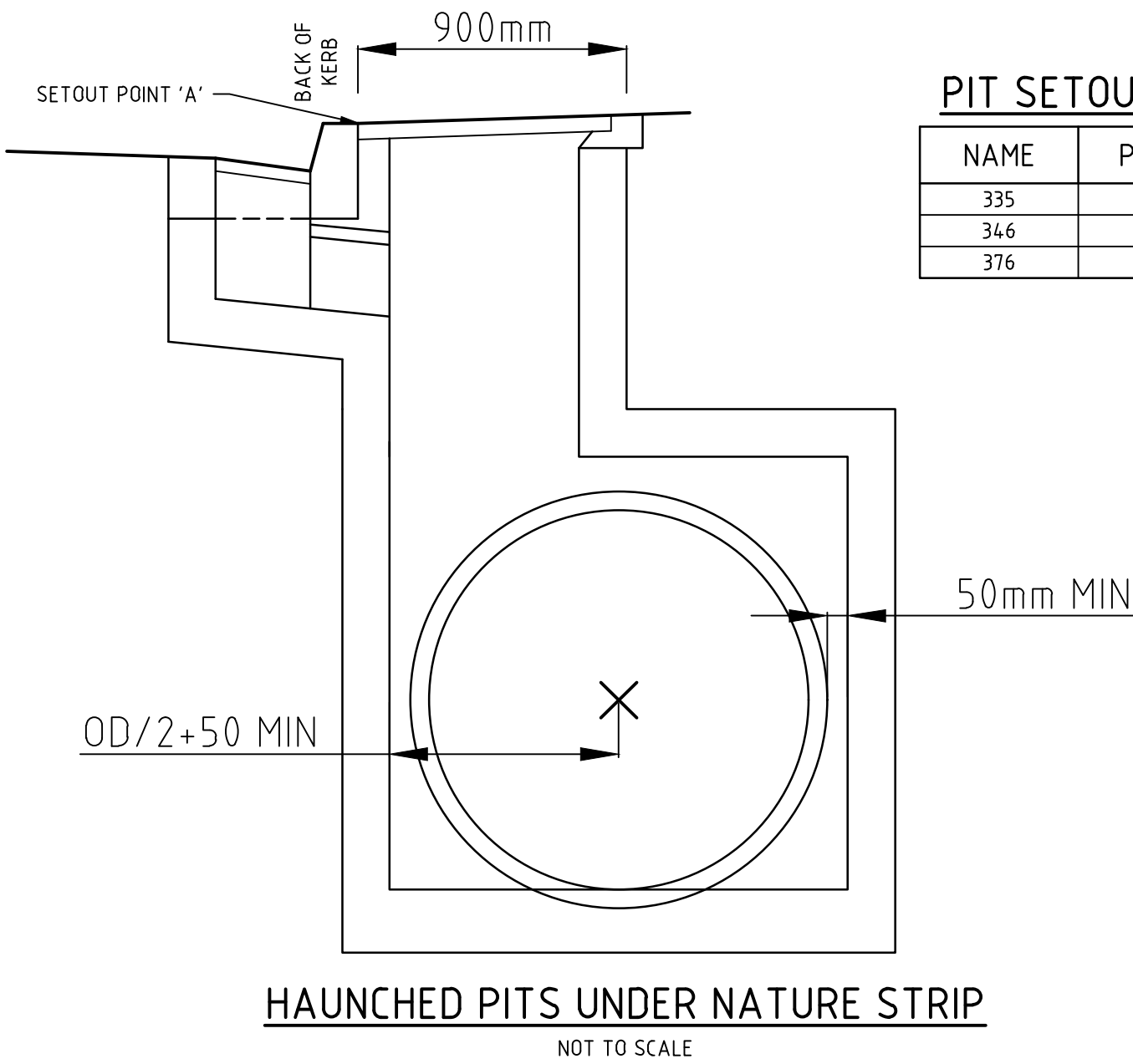
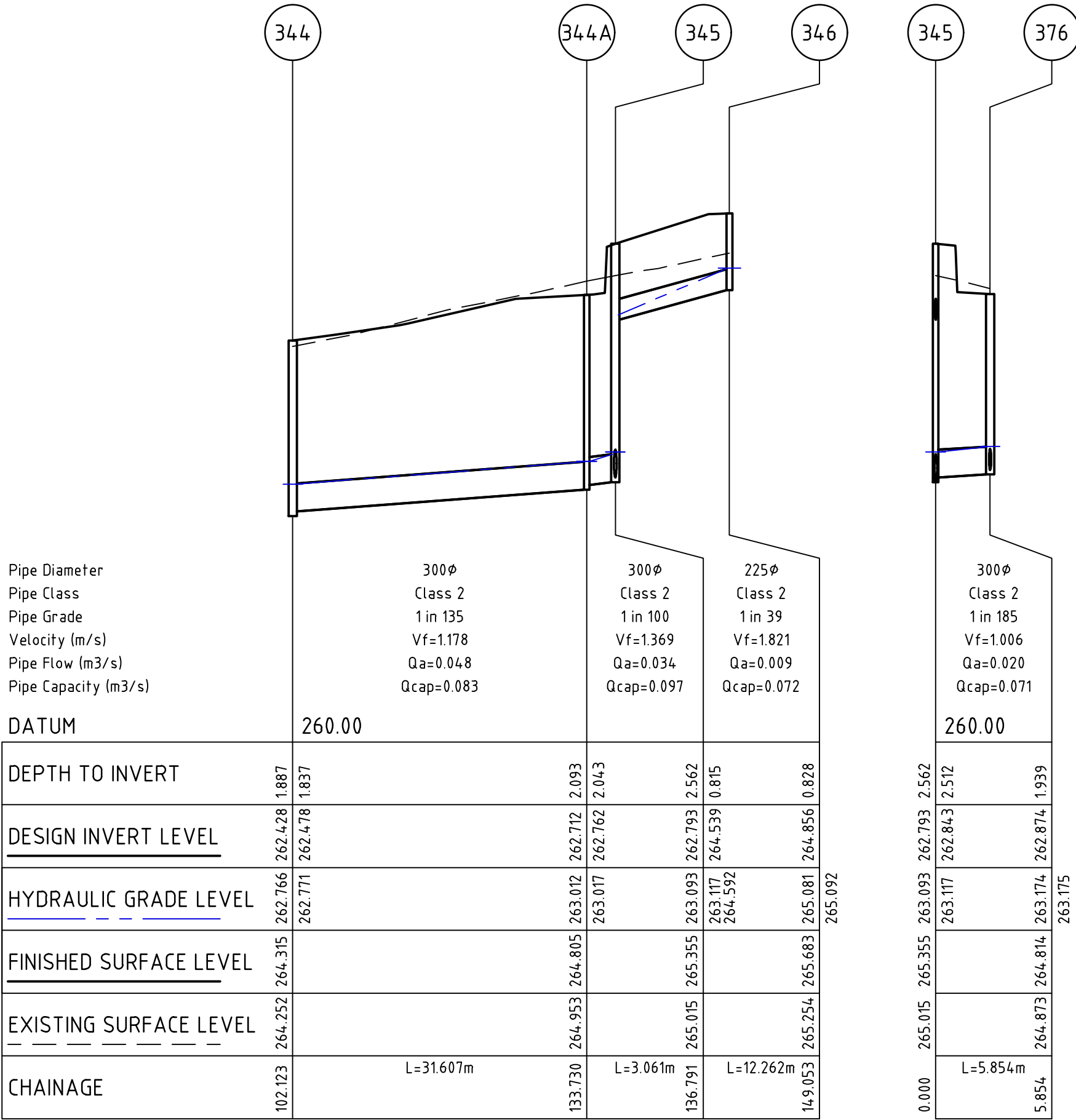
Checked
J. KOEHLER
Date
02/02/21

**TRIJENA ESTATE
STAGE 12
ROAD AND DRAINAGE
DRAINAGE LONG SECTIONS
HUME CITY COUNCIL
PGG (MICKLEHAM) PTY LTD**

AS CONSTRUCTED Drg No **304015CR600** Rev **1**

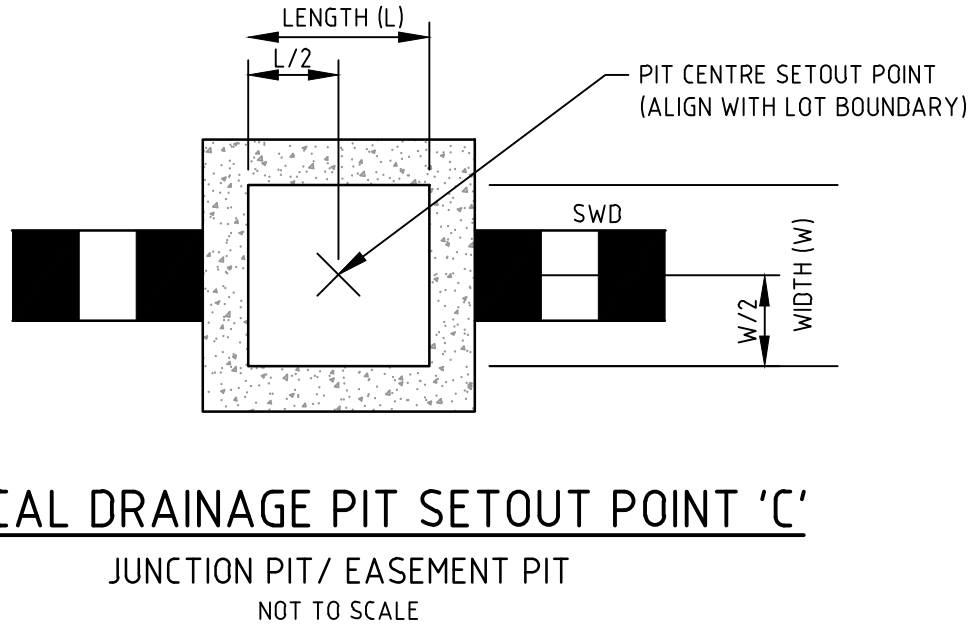
DRAINAGE PIT SCHEDULE

PIT		INTERNAL		INLET		OUTLET		PIT		REMARKS
NAME	TYPE	WIDTH	LENGTH	DIA	INV LEVEL	DIA	INV LEVEL	FS LEVEL	DEPTH	
315	GRADED SIDE ENTRY PIT	900	600	300	260.506	300	260.456	262.090	1.634	REFER TO VPA EDCM STD DWG FIG 601 & 605
316	GRADED SIDE ENTRY PIT	600	900	300	260.605	300	260.555	262.090	1.535	REFER TO VPA EDCM STD DWG FIG 601 & 605
317	GRADED SIDE ENTRY PIT	600	900	300	261.636	300	261.586	263.256	1.670	REFER TO VPA EDCM STD DWG FIG 601 & 605
317A	GRADED SIDE ENTRY PIT	900	600			300	261.693	263.256	1.563	REFER TO VPA EDCM STD DWG FIG 601 & 605
318	GRADED SIDE ENTRY PIT	750	900	525	262.294	525	262.244	264.805	2.561	REFER TO VPA EDCM STD DWG FIG 601 & 607
				300	262.996					
319	GRADED SIDE ENTRY PIT	900	1050	525	262.432	525	262.382	265.245	2.863	REFER TO VPA EDCM STD DWG FIG 601 & 607
320	GRADED SIDE ENTRY PIT	1050	900	525	262.526	525	262.476	265.674	3.198	REFER TO VPA EDCM STD DWG FIG 601 & 607
321	GRADED SIDE ENTRY PIT	1050	900	525	262.609	525	262.559	265.657	3.098	REFER TO VPA EDCM STD DWG FIG 601 & 607
				300	263.943					
322	GRADED SIDE ENTRY PIT	1050	900	375	264.136	525	262.645	265.709	3.064	REFER TO VPA EDCM STD DWG FIG 601 & 607
				375	262.695					
323	JUNCTION PIT	600	900	375	264.586	375	264.536	266.152	1.616	REFER TO VPA EDCM STD DWG FIG 605
				300	264.586					
334	JUNCTION PIT	600	900	225	263.611	225	263.561	264.446	0.885	REFER TO VPA EDCM STD DWG FIG 605
334A	JUNCTION PIT	600	900	225	263.719	225	263.669	264.534	0.866	REFER TO VPA EDCM STD DWG FIG 605
335	JUNCTION PIT	600	900	225	264.804	225	264.753	265.700	0.948	REFER TO VPA EDCM STD DWG FIG 605, PROVIDE V NOTCH IN WESTERN WALL FOR CATCH DRAIN DISCHARGE.
340	JUNCTION PIT	600	900	300	261.875	300	261.825	263.381	1.556	REFER TO VPA EDCM STD DWG FIG 605
341	GRADED ENTRY PIT	600	900	300	261.993	300	261.943	263.463	1.519	REFER TO HCC STD DWG SD225. HEAVY DUTY COVER.
341A	GRADED ENTRY PIT	600	900			300	262.404	263.920	1.516	REFER TO HCC STD DWG SD225. HEAVY DUTY COVER.
343	JUNCTION PIT	900	600	300	262.334	300	262.284	264.037	1.753	REFER TO VPA EDCM STD DWG FIG 605
344	JUNCTION PIT	900	600	300	262.478	300	262.428	264.315	1.887	REFER TO VPA EDCM STD DWG FIG 605
34.4A	JUNCTION PIT	900	600	300	262.762	300	262.712	264.805	2.093	REFER TO VPA EDCM STD DWG FIG 605
345	JUNCTION PIT	900	600	225	264.539	300	262.793	265.355	2.562	REFER TO VPA EDCM STD DWG FIG 605 & 607
				300	262.843					
346	JUNCTION PIT	600	900			225	264.856	265.683	0.828	REFER TO VPA EDCM STD DWG FIG 605
366	GRADED SIDE ENTRY PIT	600	900	375	262.772	375	262.722	265.705	2.983	REFER TO VPA EDCM STD DWG FIG 601 & 605
376	JUNCTION PIT	900	600	225	262.924	300	262.874	264.814	1.939	REFER TO VPA EDCM STD DWG FIG 605
380	JUNCTION PIT	600	900	300	265.257	300	264.609	266.482	1.873	REFER TO VPA EDCM STD DWG FIG 605
409	GRADED SIDE ENTRY PIT	900	600			300	263.138	264.801	1.663	REFER TO VPA EDCM STD DWG FIG 601 & 605
EP1	ENDPIPE	0	0	375	262.840	375	262.840	266.241	3.401	
EP2	ENDPIPE	0	0	375	264.656	375	264.656	266.254	1.599	
EP3	ENDPIPE	0	0	300	264.358	300	264.358	266.006	1.648	
EP4	ENDPIPE	0	0	300	265.838	300	265.838	267.132	1.293	



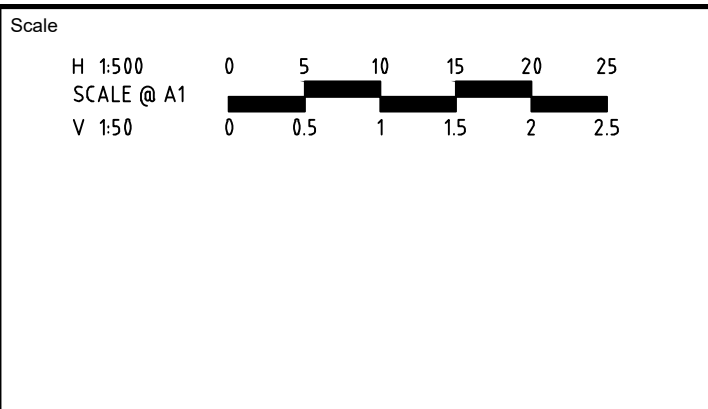
PIT SETOUT CO-ORDINATES

NAME	POINT	EASTING	NORTHING
335	C	313777.136	5843432.185
346	C	313854.796	5843472.010
376	C	313856.855	5843459.288



file name: 304015CR601.dwg, layout name: CR601, plotted by: Kieran Ayres, file location: \\spiremedia\data\304015\civil\A4\01.dwg, plot date: 05/08/2021 12:57 PM, Sheet: 14 of 17, Sheets

Rev	Amendments	Approved	Date
1	AS CONSTRUCTED	R.W.	05/08/21
0	ISSUED FOR CONSTRUCTION	M.T.S.	02/02/21
D	DRAINAGE ALIGNMENT UPDATED	M.T.S.	18/01/21
C	ENDPIPES ADDED TO PIT SCHEDULE	M.T.S.	10/12/20
B	DRAINAGE NETWORK & PIT NOTES AMENDED	M.T.S.	05/11/20
A	ISSUED TO COUNCIL	M.T.S.	15/09/20



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POTTER GEORGE

Designed
K. AYRES

Authorised
M. TOOMER-SMITH

TRIJENA
MICKLEHAM

Checked
J. KOEHLER

Date
02/02/21

**TRIJENA ESTATE
STAGE 12
ROAD AND DRAINAGE
DRAINAGE LONG SECTIONS & PIT SCHEDULE**
HUME CITY COUNCIL
PGG (MICKLEHAM) PTY LTD

AS CONSTRUCTED

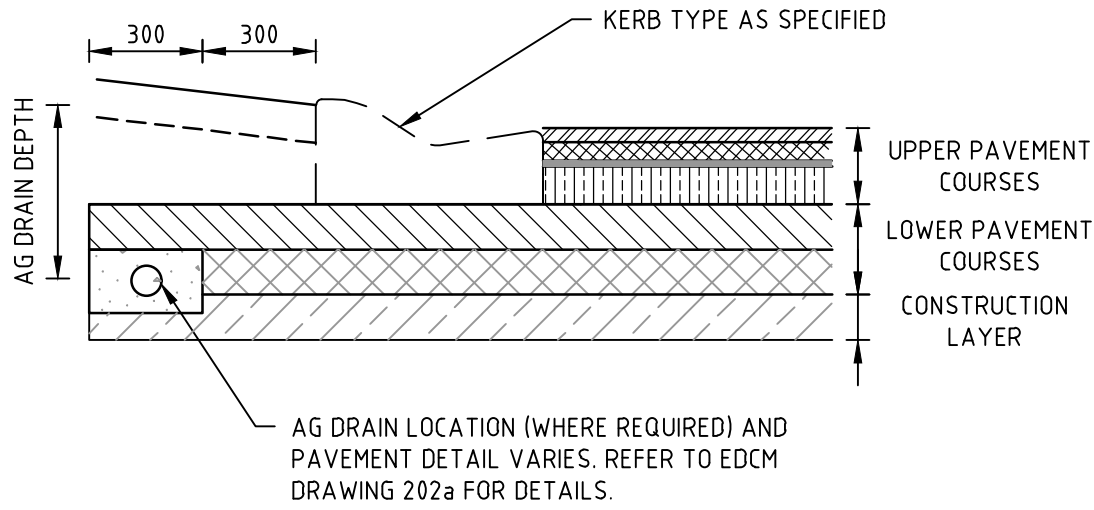
Drg No
304015CR601

Rev
1

DESIGN PAVEMENT PROFILE

PAVEMENT LAYER	DESCRIPTION	DEPTH (mm)		
		TYPE 1	TYPE 2	TYPE 3
WEARING COURSE	SIZE 10mm TYPE N CLASS 320 ASPHALT	30	30	
	SIZE 14mm TYPE N CLASS 320 ASPHALT			40
BASE COURSE	SIZE 10mm TYPE N CLASS 320 ASPHALT	30	30	
	SIZE 14mm TYPE HP CLASS A10E ASPHALT			40
SAMI	SIZE 10 SAMI SEAL CLASS S18RF - 1.8 l/m ²	Y	Y	Y
PRIME	BITUMINOUS PRIME OR PRIMESEAL	Y	Y	Y
BASE COURSE	SIZE 20mm CLASS 2 CRUSHED ROCK. COMPACTED TO A MINIMUM DENSITY RATION 98% (MODIFIED) AS1289, 5.2.1.	130	130	110
UPPER PAVEMENT TOTAL		190	190	190
SUBBASE	SIZE 20mm CLASS 3 CRUSHED ROCK. COMPACTED TO A MINIMUM DENSITY RATIO OF 97% (MODIFIED) AS1289, 5.2.1	100	170	
UPPER SUBBASE	SIZE 20mm CLASS 2 CRUSHED ROCK COMPACTED TO A MINIMUM DENSITY RATION OF 98% (MODIFIED) AS2189, 5.2.1			100
LOWER SUBBASE	SIZE 20mm CLASS 3 CRUSHED ROCK COMPACTED TO A MINIMUM DENSITY RATION OF 97% (MODIFIED) AS2189, 5.2.1			130
CAPPING LAYER	TYPE A SELECT FILL MEETING THE FOLLOWING PROPERTIES: CBR ≥7%, SWELL ≤15%, PERMEABILITY ≤5 X 10 ⁻⁹ m/sec. COMPACTED TO A MINIMUM DENSITY RATIO 98% (STANDARD) AS1289, 5.1.1.	150	150	150
CONSTRUCTION LAYER	TYPE A SELECT FILL MEETING THE FOLLOWING PROPERTIES: CBR ≥7%, SWELL ≤15%, PERMEABILITY ≤5 X 10 ⁻⁹ m/sec. COMPACTED TO A MINIMUM DENSITY RATIO 98% (STANDARD) AS1289, 5.1.1.	150 (MINIMUM)	150 (MINIMUM)	150 (MINIMUM)
TOTAL PAVEMENT DEPTH		590	660	720

ROAD NAME	TYPE
JANOLI STREET	1
PIONEER WAY - WEST OF CH10.78	1
ALICE AVENUE - NORTH OF CH206.66	1
ALICE AVENUE - CH109.26 TO CH206.66	2
ALICE AVENUE - CH88.82 TO 109.26	3



TYPICAL SUBSURFACE DRAIN DETAIL
NOT TO SCALE

PAVEMENT NOTES:

SUBGRADE TO BE MATERIAL AS FOUND (CLAY, CBR ≥ 2.0%) WITH TOP 200mm TO BE COMPACTED TO MINIMUM DENSITY RATIO 98% (STANDARD) AS1289, 5.1.1

CONDUITS FOR GAS, WATER, ELECTRICITY AND TELECOM SERVICES TO BE LOCATED CLEAR OF PAVEMENT AND THE SUBSURFACE DRAIN AS PER EDCM DRAWING 202.

* ASPHALT BASE COURSE ALTERNATIVE PRODUCT OF EQUIVALENT THICKNESS AND SIZE BITUMEN CRUMB RUBBER ASPHALT WITH A PRIME OR 7mm SIZE PRIMERSEAL MAY BE USED WITH THE APPROVAL OF THE SUPERINTENDENT & COUNCIL.

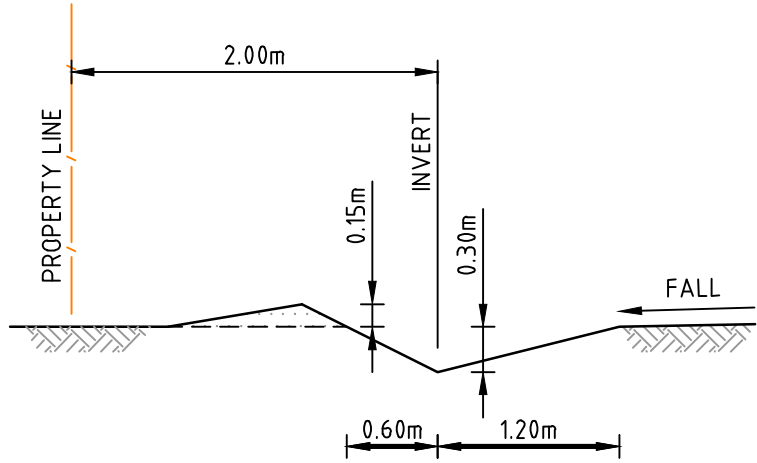
¹ CAPPING & CONSTRUCTION LAYERS TO BE COMPACTED TO A MINIMUM DENSITY RATIO OF 98% (MODIFIED) AS1289, 5.1.1.

² SUB-BASE (INCLUSIVE OF UPPER & LOWER) TO BE COMPACTED TO A MINIMUM DENSITY RATIO OF 97% (MODIFIED) AS1289,5.2.1

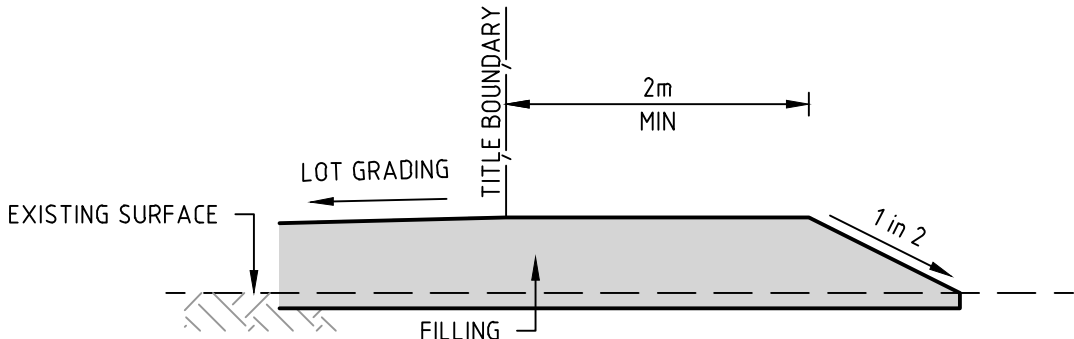
³ BASE TO BE COMPACTED TO A MINIMUM DENSITY RATIO OF 98% (MODIFIED) AS1289,5.2.1

GENERAL NOTES:

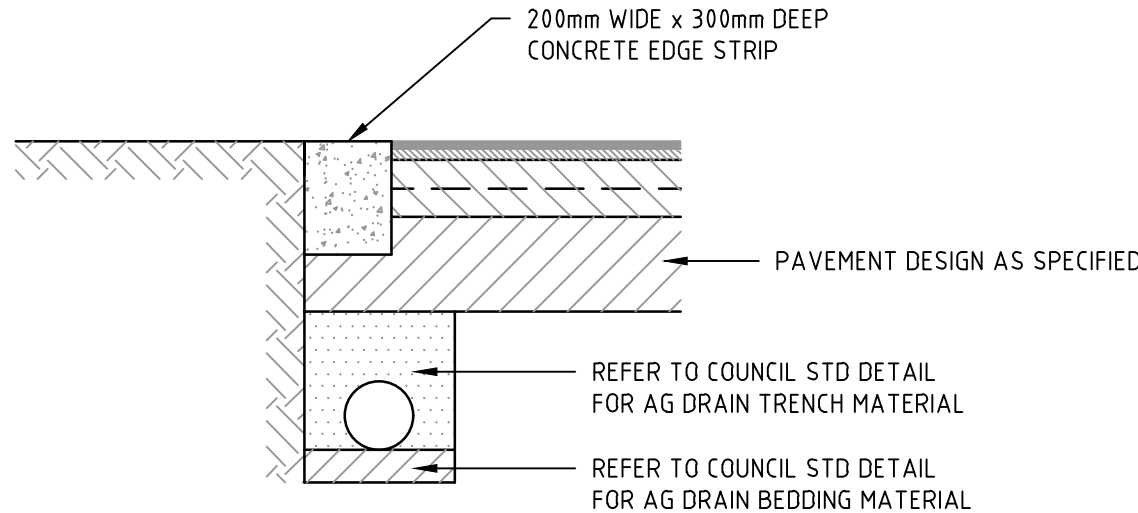
- ALL WORKS TO BE COMPLETED IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS AND CCAA LITERATURE, OR VIC ROADS' STANDARDS FOR NON RESIDENTIAL STREETS.
- ALL CONCRETE TO BE MINIMUM 32MPa COMPRESSIVE STRENGTH
- CONCRETE TO BE THOROUGHLY COMPACTED USING EITHER SURFACE AND/OR IMMERSION VIBRATORS, PARTICULARLY AROUND REINFORCEMENT AND IN CORNERS OF FORMS.
- PRIOR TO CASTING, THE UNBOUND GRANULAR SUBBASE MUST BE DAMP TO ENSURE NO EARLY "DRYING OUT" OF THE CONCRETE.
- CURING OF CONCRETE IS ESSENTIAL - IDEALLY BY MAINTAINING WET HESSIAN OR SEALING WITH PLASTIC SHEETING.
- SAW CUTTING OF CONCRETE SHOULD BE COMMENCED AS SOON AS CONCRETE PERMITS BY EXPERIENCED CONTRACTORS, BUT NO LATER THAN 12 HOURS AFTER POUR.
- ALL DOWELS TO BE GRADE 250R STEEL BARS, 450mm LONG AND PLACED AT 300mm CENTRES. REFER CCAA- "CONCRETE PAVEMENT DESIGN FOR RESIDENTIAL STREETS" FOR DOWEL DIAMETERS. DOWELS MUST BE ACCURATELY PLACED TO ENSURE THE JOINT DOES NOT "LOCK". INSERTION OF DOWELS DURING THE PLACING OF CONCRETE IS NOT ACCEPTABLE. DOWELS MUST BE SAWN AND NOT CROPPED.
- ALL JOINTS TO BE APPROPRIATELY SEALED TO RESIST THE INTRUSION OF SAND AND GRAVEL AND TO MINIMISE THE INGRESS OF WATER.



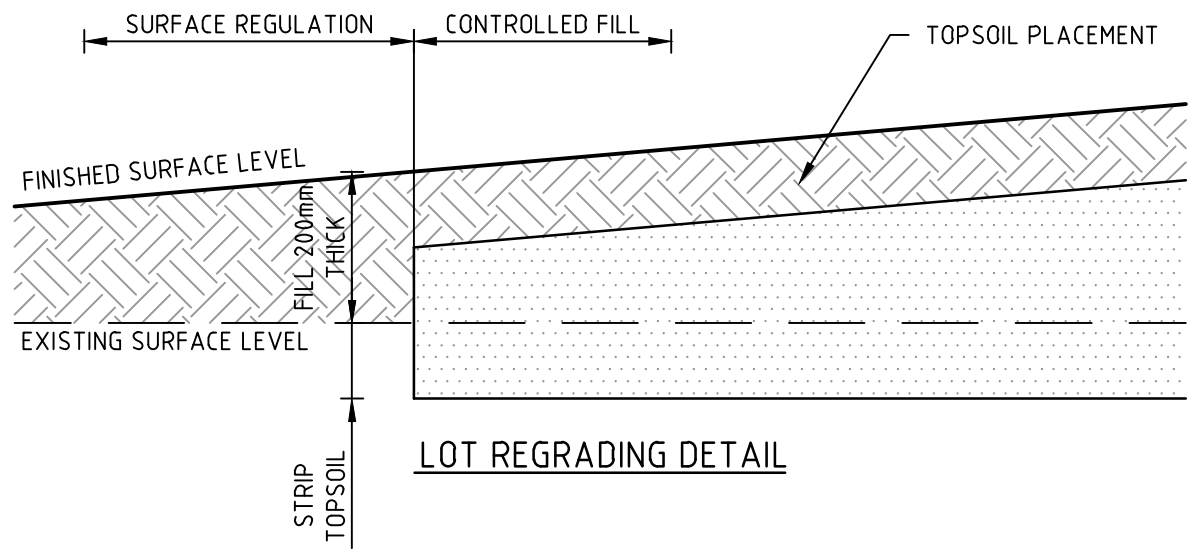
TYPICAL CATCH DRAIN SECTION



LOT FILLING AT STAGE BOUNDARY

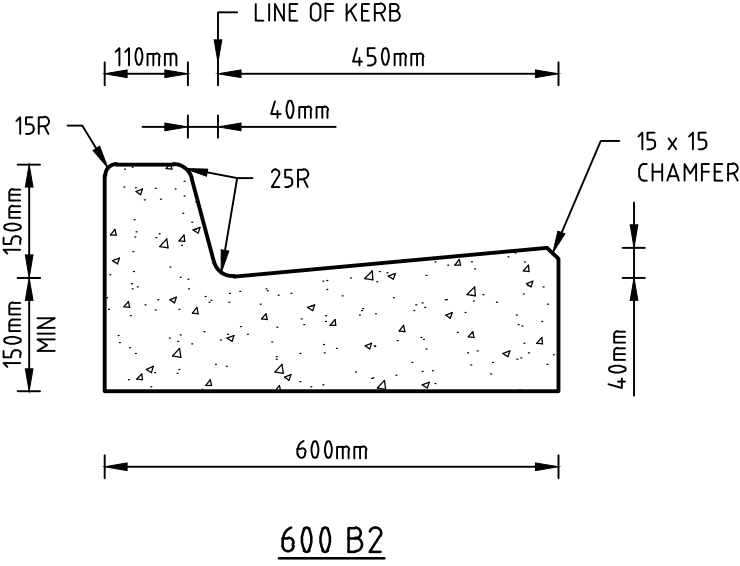


LIMIT OF WORKS CONCRETE EDGE STRIP & PAVEMENT INTERFACE DETAIL

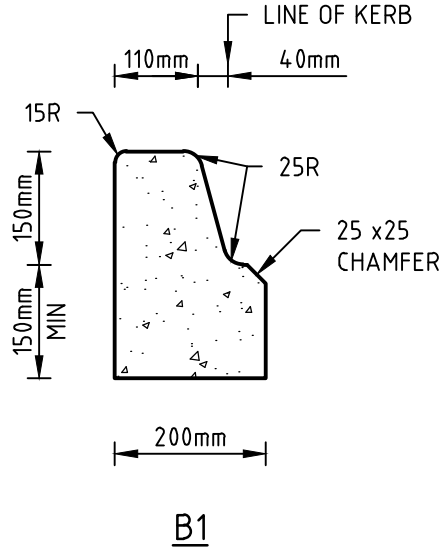


LOT REGADING DETAIL

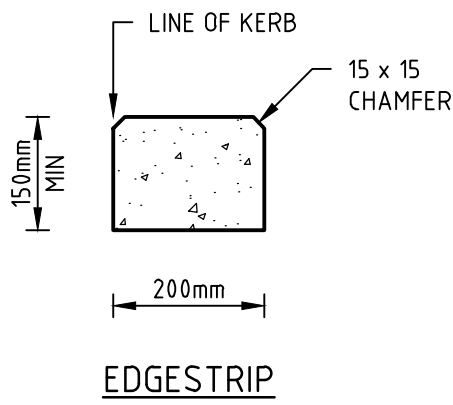
NOT TO SCALE



600 B2



B1



EDGE STRIP

STANDARD KERB PROFILES

NOTE: ALL KERB & CHANNEL AS PER GAA STD DRAWING EDCM 301

H 1:100
SCALE @ A1



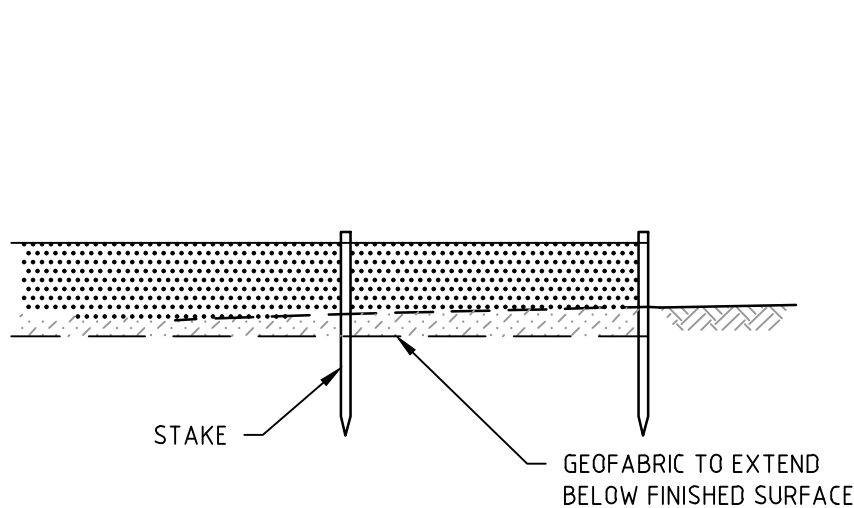
PAVEMENT DETAILS

THE PAVEMENT DESIGNS SHOWN HERE HAVE BEEN DESIGNED/PROVIDED BY TONKIN + TAYLOR PTY. LTD. WHO ARE RESPONSIBLE FOR THE GEOTECHNICAL WORK ON THIS PROJECT. SPIIRE IS NOT RESPONSIBLE FOR THE WORK OF TONKIN + TAYLOR PTY. LTD..

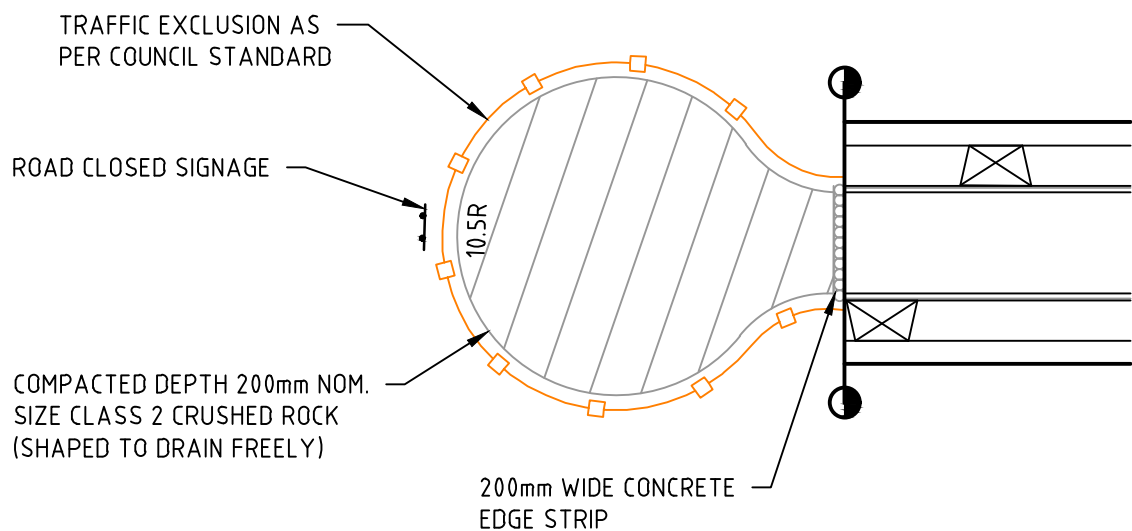
THE DESIGN HAS BEEN EXTRACTED FROM THE TONKIN + TAYLOR PTY. LTD. REPORT ON "PRELIMINARY GEOTECHNICAL, ENVIRONMENTAL AND HYDROGEOLOGICAL SITE INVESTIGATION (AUGUST 2020, REPORT 1000282.v03)" THIS DOCUMENT SHOULD BE REVIEWED TO ENSURE THAT THE DESIGN HAS BEEN ACCURATELY REPRODUCED.

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 GEOTCHNICAL WORK AND PAVEMENT DESIGNS. ANY QUERIES IN RESPECT TO THE GEOTECHNICAL WORK AND PAVEMENT DESIGNS SHOULD BE ADDRESSED TO TONKIN + TAYLOR PTY. LTD. AND SENT TO SPIIRE.



SILT CONTROL FOR LOTS
GEOFABRIC SILT FENCE



TEMPORARY TURNING AREA DETAIL

file name: 304015CR700.dwg, layout name: CD700, created by: Kieran Ayres, file location: \\spiremedia\data\304015\proj\A1A1.dwg, plot date: 05/08/2021 12:57 PM, sheet: 15 of 17, sheets

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Rev	AS CONSTRUCTED	R.W.	05/08/21	Scale
1	AS CONSTRUCTED	R.W.	05/08/21	
0	ISSUED FOR CONSTRUCTION	M.T.S.	02/02/21	
E	TYPICAL SUBSURFACE DRAIN DETAIL AMENDED	M.T.S.	28/01/21	
D	SUBSURFACE DRAIN DETAIL AMENDED	M.T.S.	19/01/21	
C	PAVEMENT DETAILS UPDATED	M.T.S.	10/12/20	
B	PAVEMENT DESIGN UPDATED, SUBGRADE DETAIL AMENDED	M.T.S.	05/11/20	
A	ISSUED TO COUNCIL	M.T.S.	15/09/20	
Rev	Amendments	Approved	Date	



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K. AYRES
Authorised
M. TOOMER-SMITH

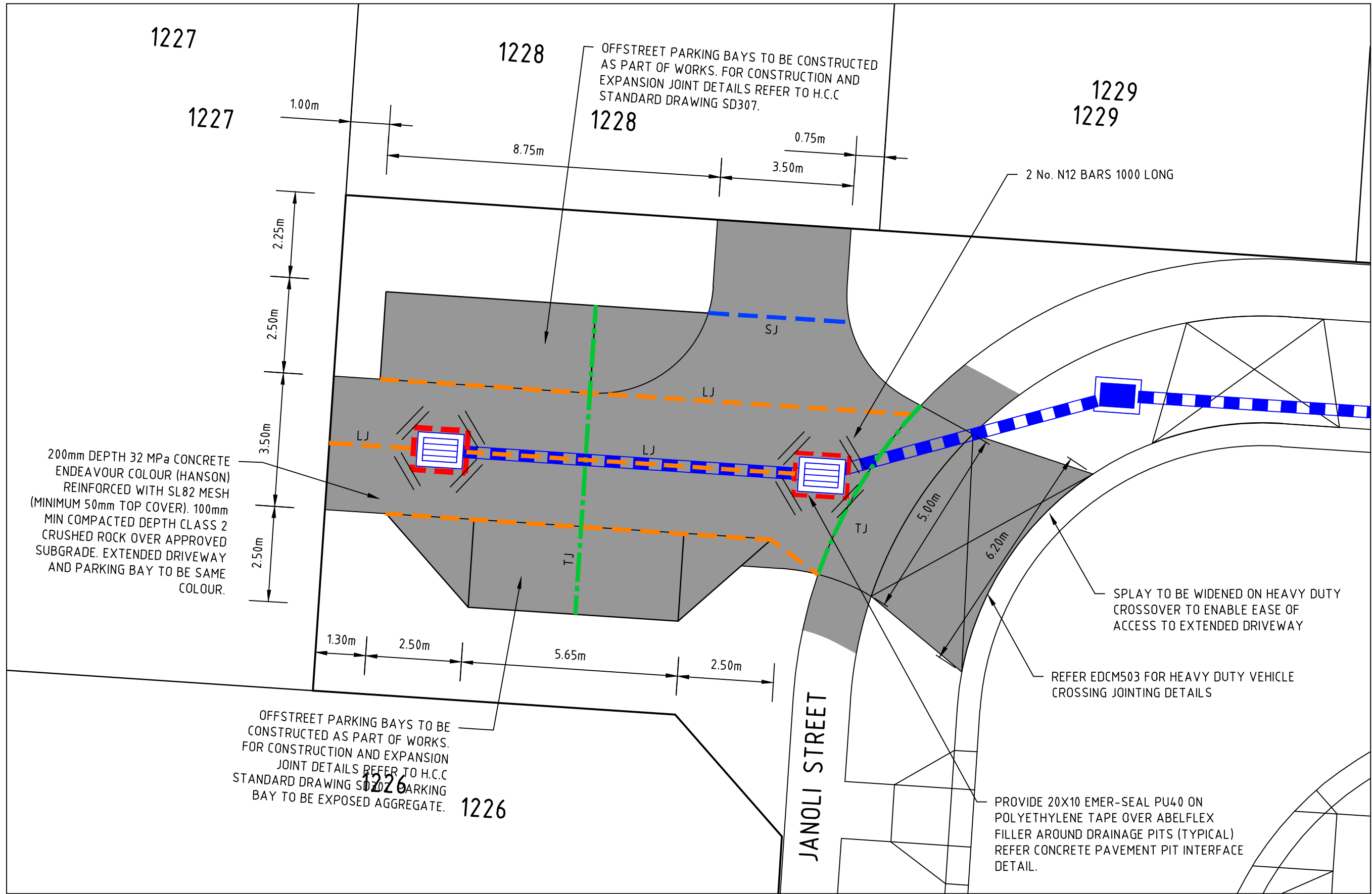
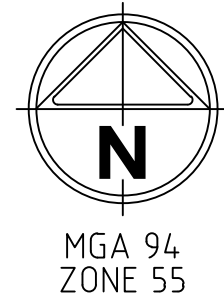


Checked
J. KOEHLER
Date
02/02/21

**TRIJENA ESTATE
STAGE 12
ROAD AND DRAINAGE
PAVEMENT AND TYPICAL DETAILS - SHEET 1**
HUME CITY COUNCIL
PGG (MICKLEHAM) PTY LTD

AS CONSTRUCTED Drg No **304015CR700** Rev **1**

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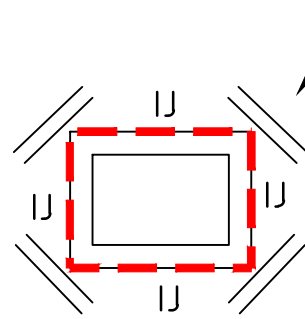


PAVEMENT PLAN

H 1:1000
SCALE @ A1

GENERAL NOTES:

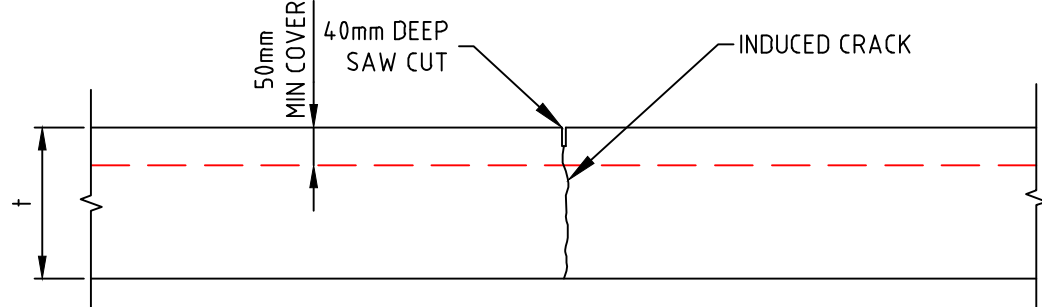
- ALL WORKS TO BE COMPLETED IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS AND CCAA LITERATURE, OR VIC ROADS STANDARDS FOR NON RESIDENTIAL STREETS.
- ALL CONCRETE TO BE MINIMUM 32MPa COMPRESSIVE STRENGTH
- CONCRETE TO BE THOROUGHLY COMPACTED USING EITHER SURFACE AND/OR IMMERSION VIBRATORS, PARTICULARLY AROUND REINFORCEMENT AND IN CORNERS OF FORMS.
- PRIOR TO CASTING, THE UNBOUND GRANULAR SUBBASE MUST BE DAMP TO ENSURE NO EARLY "DRYING OUT" OF THE CONCRETE.
- CURING OF CONCRETE IS ESSENTIAL - IDEALLY BY MAINTAINING WET HESSIAN OR SEALING WITH PLASTIC SHEETING.
- SAW CUTTING OF CONCRETE SHOULD BE COMMENCED AS SOON AS CONCRETE PERMITS BY EXPERIENCED CONTRACTORS, BUT NO LATER THAN 12 HOURS AFTER POUR.
- DOWELS MUST BE ACCURATELY PLACED TO ENSURE THE JOINT DOES NOT "LOCK". INSERTION OF DOWELS DURING THE PLACING OF CONCRETE IS NOT ACCEPTABLE. DOWELS MUST BE SAWN AND NOT CROPPED.
- ALL JOINTS TO BE SEALED AS SHOWN TO RESIST THE INTRUSION OF SAND AND GRAVEL AND TO MINIMISE THE INGRESS OF WATER.
- VARIATION TO JOINT LAYOUT BY CONTRACTOR WILL NOT BE ACCEPTED WITHOUT SPECIFIC WRITTEN APPROVAL OF SUPERINTENDENT & COUNCIL.
- FOOTPATH CONSTRUCTION DETAILS IN ACCORDANCE WITH EDCM STANDARD DRAWING 401.
- RESIDENTIAL DRIVEWAYS CONSTRUCTION DETAILS IN ACCORDANCE WITH EDCM STANDARD DRAWINGS 501-502
- ALL PIT/ACCESS HOLE JOINT DETAILS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH EDCM STANDARD DRAWING EDCM402
- ALL JOINTS ARE TO EXTEND THROUGH KERBS



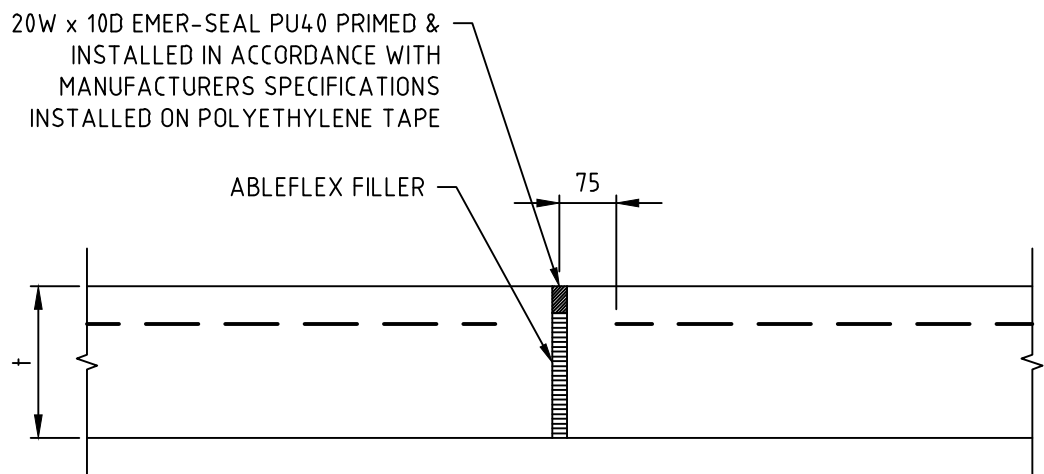
PROVIDE 2 NO. 1000mm LONG N12 BARS TO THE EASTERN CORNERS 100mm FROM EDGE OF PIT 100mm APART.

CONCRETE PAVEMENT PIT
INTERFACE DETAIL

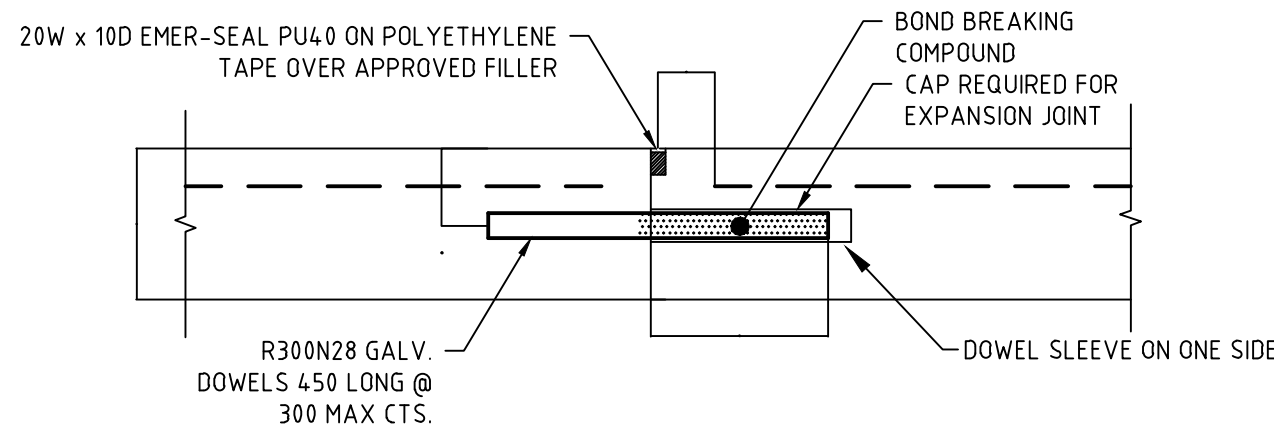
JOINT DETAIL EDCM 402
NOT TO SCALE



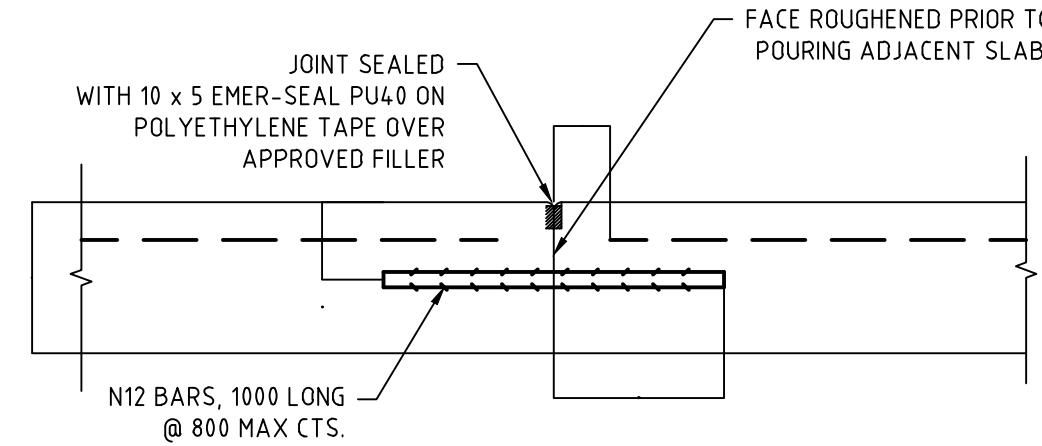
SAW CUT JOINT (SJ)



ISOLATION JOINT (IJ)



TRANSVERSE JOINT (TJ)



LONGITUDINAL JOINT (LJ)

Rev	Amendments	Approved	Date
1	AS CONSTRUCTED	R.W.	05/08/21
0	ISSUED FOR CONSTRUCTION	M.T.S.	02/02/21
D	DIMENSIONS ADDED	M.T.S.	19/01/21
C	EXTENDED DRIVEWAY ALIGNMENT AMENDED, BARRIER KERBS REMOVED	M.T.S.	10/12/20
B	PARKING BAY TEXT AMENDED	M.T.S.	05/11/20
A	ISSUED TO COUNCIL	M.T.S.	15/09/20

Scale	



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Authorised
M. TOOMER-SMITH



Checked
J. KOEHLER
Date
02/02/21

**TRIJENA ESTATE
STAGE 12
ROAD AND DRAINAGE
PAVEMENT AND TYPICAL DETAILS-CONCRETE DETAIL PLAN**
HUME CITY COUNCIL
PGG (MICKLEHAM) PTY LTD

AS CONSTRUCTED Drg No **304015CR701** Rev **1**

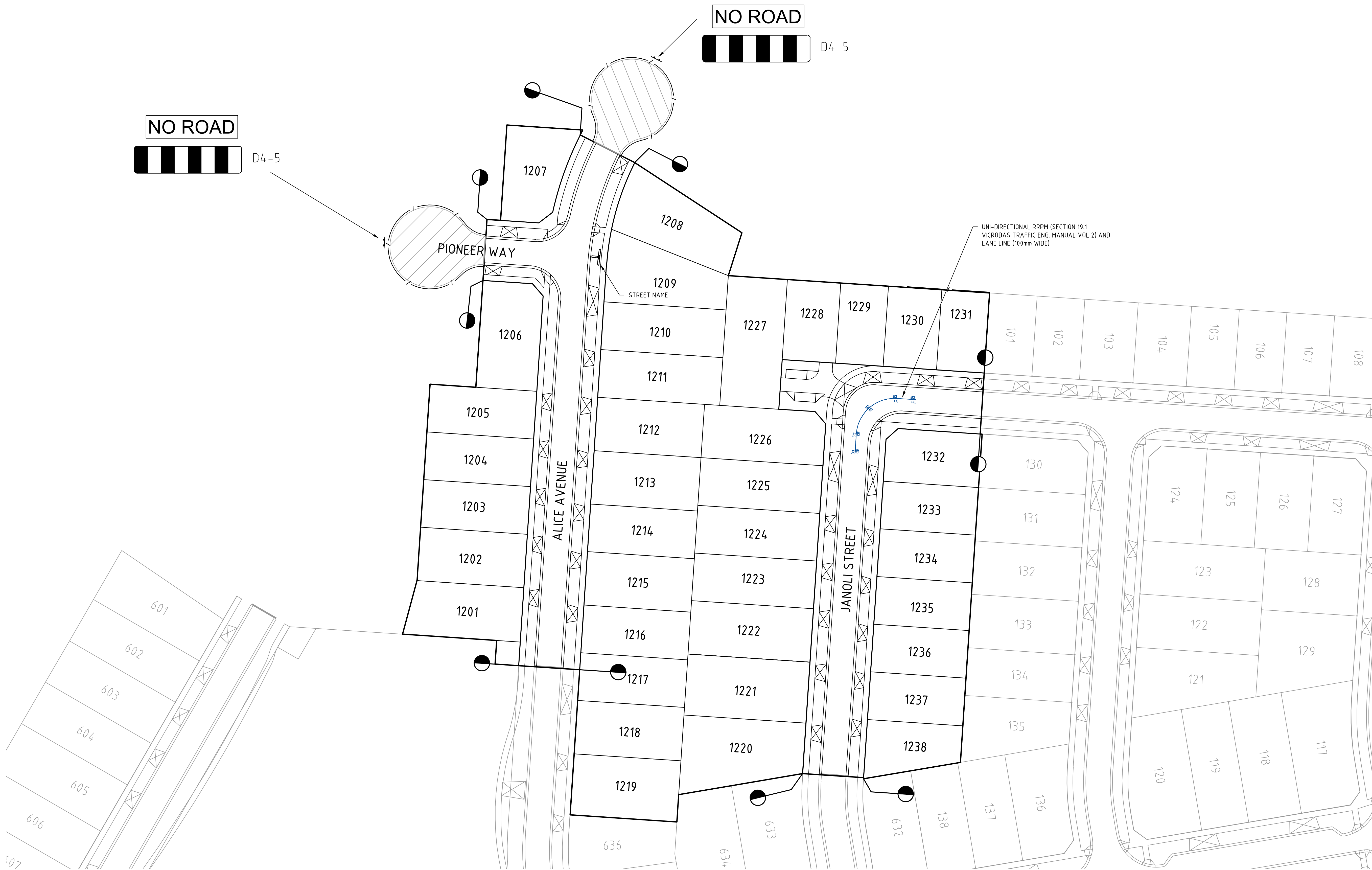


D4-5

NO ROAD



D4-5



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Rev	Amendments	Approved	Date
1	AS CONSTRUCTED	R.W.	05/08/21
0	ISSUED FOR CONSTRUCTION	M.T.S.	02/02/21
B	TGS'S REMOVED	M.T.S.	05/11/20
A	ISSUED TO COUNCIL	M.T.S.	15/09/20

Scale
H 1500
SCALE @ A1



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Designed
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Authorised
M. TOOMER-SMITH



Checked
J. KOEHLER
Date
02/02/21

**TRIJENA ESTATE
STAGE 12
ROAD AND DRAINAGE
SIGNAGE AND LINEMARKING**
HUME CITY COUNCIL
PGG (MICKLEHAM) PTY LTD

AS CONSTRUCTED Drg No 304015CR800 Rev 1