

OFFICER FIELDS STAGE 8 YOURLAND PTY LTD

GENERAL NOTES:

SURVEY

- ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM AND ALL COORDINATES ARE TO MGA 2020, ZONE 55.
- 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 THEIR REPRESENTATIVE.
- ROAD CHAINAGES REFER TO ROAD CENTRELINES. CHAINAGES FOR INTERSECTIONS AND CUL-DE-SACS REFER TO THE LIP OF KERB

EARTHWORKS

- 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 SCHEDULE.
- ALL EXCAVATED ROCK AND SURPLUS SPOIL TO BE REMOVED AND DISPOSED OFF SITE UNLESS NOTED OTHERWISE.
- 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 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.
- FILLING MATERIAL IS TO BE IN ACCORDANCE WITH THE SPECIFICATION, AS 3798-2007 & TO THE SATISFACTION OF COUNCIL AND THE SUPERINTENDENT.
- ALL BATTERS SHALL BE 1 IN 6, UNLESS OTHERWISE SHOWN.
- 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.
- 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.
- AT LEAST 3 DAYS PRIOR TO COMMENCING WORK ON EXCAVATIONS IN EXCESS OF 150mm 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.

- 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 ROCK.

- 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

SERVICES

- 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)

WITH THE FOLLOWING MINIMUM COVER TO FINISHED SURFACE LEVELS:
ROAD PAVEMENT - 0.80m
VERGE, FOOTPATHS - 0.45m

- ALL SERVICE CONDUIT TRENCHES UNDER ROAD PAVEMENTS TO BE BACKFILLED IN ACCORDANCE WITH RELEVANT MUNICIPALITY OR ROAD AUTHORITY SPECIFICATION.

- GAS AND WATER CONDUITS TO BE LOCATED AS SHOW, REFER TO WATER DESIGN FOR CONDUIT OFFSETS

- TELSTRA ARE TO BE NOTIFIED 7 DAYS PRIOR TO PLACEMENT OF CONCRETE WORKS.

STORM WATER DRAINAGE

- AG/SUBSOIL DRAIN TO BE LAID BEHIND KERB WHERE REQUIRED IN ACCORDANCE WITH THE COUNCIL STANDARD DRAWINGS AND CONNECTED TO UNDERGROUND DRAINAGE.

- ALL STORMWATER DRAINS ARE TO BE CLASS '2' R.C. PIPES UNLESS OTHERWISE SHOWN. ALL PIPES UP TO AND INCLUDING 750mm DIAMETER TO BE RUBBER RING JOINTED (R.R.J.) UNLESS STATED OTHERWISE.

- CENTRELINES OF ALL EASEMENT DRAINS ARE OFFSET 10m OR 2.2m (WHERE OUTSIDE OF SEWER) FROM THE PROPERTY LINE UNLESS SHOWN OTHERWISE.

- WHERE CURVED PIPES 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.

- THE CONTRACTOR MUST PROVIDE CCTV FOOTAGE OF ALL UNDERGROUND DRAINS PRIOR TO PRACTICAL COMPLETION. ANY DAMAGED PIPES MUST BE REPAIRED AND RE-INSPECTED PRIOR TO PRACTICAL COMPLETION.

PAVEMENT

- 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.

SIGNAGE AND LINEMARKING

- 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.

- ALL TEMPORARY WARNING SIGNS USED DURING CONSTRUCTION SHALL BE SUPPLIED AND MAINTAINED IN ACCORDANCE WITH AS 1742-3.

- TACTILE GROUND SURFACE INDICATORS ARE TO BE INSTALLED IN ACCORDANCE WITH THE DISABILITY DISCRIMINATION ACT AND RELEVANT COUNCIL STANDARD DRAWINGS.

ENVIRONMENTAL

- CONTRACTOR TO PROVIDE AN ENVIRONMENTAL MANAGEMENT PLAN INCLUDING SILT AND SEDIMENT RUNOFF PROTECTION ETC. PRIOR TO THE COMMENCEMENT OF WORKS.

- 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 THE SUPERINTENDENT.

- TREES NOT SPECIFIED FOR REMOVAL ARE TO BE PROTECTED WITH APPROPRIATE EXCLUSION FENCING PRIOR TO COMMENCEMENT OF ANY WORKS.

- 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.

MISCELLANEOUS

- PRIOR TO PC, PROVIDE THE ALLOCATED STREET NUMBER ON THE KERB IN FRONT OF EACH LOT. THE KERBSIDE NUMBERS MUST BE 100MM WHITE LETTERING ON A BLACK BACKGROUND LOCATED ON THE FRONT OF THE KERB AT THE PROPERTY FRONTAGE TO COUNCIL SATISFACTION.

- UPON COMPLETION OF THE CIVIL WORKS, THE CONTRACTOR SHALL PROVIDE AS CONSTRUCTED PLANS IN AUTOCAD, D-SPEC AND R-SPEC DIGITAL FORMAT TO COUNCIL'S REQUIREMENTS AND TO THE SATISFACTION OF ALL PARTIES.

- HOUSE DRAIN LOCATIONS ARE TO BE STAMPED ON THE KERB FACE IN ACCORDANCE WITH VPA EDM303

- CONTRACTOR TO REFER TO AND COMPLY WITH CHMP / F&F REPORTS PROVIDED IN CONTRACT DOCUMENTS

- "COUNCIL WILL NOT ACCEPT ANY RESPONSIBILITY FOR WORKS WHERE AN INSPECTION IS NOT UNDERTAKEN WITH A COUNCIL APPOINTED REPRESENTATIVE

CIVIL WORKS HOLD POINTS

THE FOLLOWING HOLD POINT INSPECTIONS REPRESENT THE MINIMUM NUMBER OF COUNCIL INSPECTIONS AND SHALL APPLY UNTIL WORKS ARE APPROVED BY COUNCIL'S REPRESENTATIVE WHO MUST ALSO BE PRESENT AT THESE HOLD POINTS.

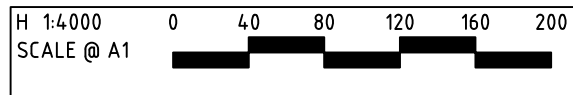
- PRE-START MEETING.
- PRIOR TO COVERS BEING PLACED IN PITS.
- PRIOR TO PLACEMENT OF KERB AND CHANNEL.
- PRIOR TO POURING FOOTPATH.
- AT PROOF-ROLLING OF SUBGRADE.
- PRIOR TO PLACEMENT OF SUBBASE AND PROOF ROLL.
- PRIOR TO PLACEMENT OF BASE AND PROOF ROLL.
- PRIOR TO PLACEMENT OF THE PRIMER COAT.
- PRIOR TO PLACEMENT OF THE WEARING COURSE.
- PRELIMINARY ACCEPTANCE INSPECTION.
- FINAL ACCEPTANCE INSPECTION.

THE FOLLOWING ARE WITNESS POINTS (COUNCIL ARE MADE AWARE OF THE WORKS BUT WORKS ARE NOT HELD UP AWAITING INSPECTION).

- PRIOR TO BACKFILLING STORMWATER DRAINS.

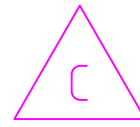


LOCALITY PLAN



DRAWING SCHEDULE

DRAWING	DESCRIPTION	SHEET No.	REVISION
CR100	GENERAL NOTES	1	C
CR200	FACE PLAN	2	C
CR201	SERVICES PLAN	3	B
CR300	ROAD LONG SECTIONS	4	A
CR400	ROAD CROSS SECTIONS - SHEET 1	5	A
CR401	ROAD CROSS SECTIONS - SHEET 2	6	A
CR500	INTERSECTION DETAILS	7	A
CR600	DRAINAGE LONG SECTIONS - SHEET 1	8	B
CR601	DRAINAGE LONG SECTIONS - SHEET 2	9	B
CR602	PIT SCHEDULE	10	B
CR700	PAVEMENT AND TYPICAL DETAILS	11	A
CR800	SIGNAGE AND LINEMARKING	12	A
CR900	RETAINING WALL DETAILS	13	A



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

EXISTING	PROPOSED
WATER MAIN, VALVE AND HYDRANT	DW
WATER RECYCLED	NDW
UNDERGROUND ELECTRICITY	E
OVERHEAD ELECTRICITY & POLE	OE
TELECOMMUNICATIONS & SERVICE PIT	T
OPTIC FIBRE	OF
OVERHEAD TELECOMMUNICATIONS	OT
GAS MAIN	G
BRANCH SEWER & MAINTENANCE STRUCTURE	S
SEWER & MAINTENANCE STRUCTURE	S
SEWER RISING MAIN	SRM
CENTRAL INVERT	>
COUNCIL STORMWATER DRAIN AND PIT	>
STORM WATER DRAINAGE PROPERTY INLETS	>
COUNCIL STORM WATER PITS	>
HOUSE DRAIN	H
AG DRAIN AND FLUSHER	AG
MWC STORM WATER DRAIN & PIT	S
MWC STORM WATER PITS	S
STORM WATER DRAINAGE PIT NUMBER	1
GAS & WATER CONDUITS	GW
CONCRETE VEHICLE CROSSING	1
INDUSTRIAL DRIVEWAY (PER EDM 503)	1
RIDGE / CHANGE OF GRADE LINE	169.05
SURFACE CONTOUR MINOR	169.00
SURFACE CONTOUR MAJOR	169.00
SURFACE LEVEL	E123.45
BATTER LEVEL (TOP / TOE)	T124.80
RETAINING WALL LEVEL (TOP/BOTTOM)	TW112.76
EARTHWORKS GRADE	1 in 150
SIGN AND POST	1 in 150
LIGHT & POLE (BY OTHERS)	1 in 150
STREET SIGN	1 in 150
PERMANENT SURVEY MARK	1 in 150
TEMPORARY BENCH MARK	1 in 150
BOLLARD	1 in 150
ROAD CHAINAGES	CH116.57 (L/R)TP CH116.57
LOT CHAINAGES	CH20.06
SETOUT POINT	CH20.06
LIMIT OF WORKS	CH20.06
BATTER	CH20.06
EXCAVATION GREATER THAN 0.20m	CH20.06
FILLING GREATER THAN 0.20m	CH20.06
ROCK BEACHING	CH20.06
RETAINING WALL	CH20.06
FENCE - TREE PROTECTION	CH20.06
FENCE - VEHICLE EXCLUSION	CH20.06
FENCES	CH20.06
GUARD RAIL	CH20.06
TREE (& SURVEYED CANOPY) TO BE RETAINED	CH20.06
TREE TO BE PROTECTED	CH20.06
TREE TO BE REMOVED	CH20.06
VEGETATION LINE	CH20.06
FOOTPATH	CH20.06
TACTILE GROUND SURFACE INDICATOR	CH20.06
KERB TRANSITION	CH20.06

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WATER RECYCLED	NDW
UNDERGROUND ELECTRICITY	E
OVERHEAD ELECTRICITY & POLE	OE
TELECOMMUNICATIONS & SERVICE PIT	T
OPTIC FIBRE	OF
OVERHEAD TELECOMMUNICATIONS	OT
GAS MAIN	G
BRANCH SEWER & MAINTENANCE STRUCTURE	S
SEWER & MAINTENANCE STRUCTURE	S
SEWER RISING MAIN	SRM
CENTRAL INVERT	>
COUNCIL STORMWATER DRAIN AND PIT	>
STORM WATER DRAINAGE PROPERTY INLETS	>
COUNCIL STORM WATER PITS	>
HOUSE DRAIN	H
AG DRAIN AND FLUSHER	AG
MWC STORM WATER DRAIN & PIT	S
MWC STORM WATER PITS	S
STORM WATER DRAINAGE PIT NUMBER	1
GAS & WATER CONDUITS	GW
CONCRETE VEHICLE CROSSING	1
INDUSTRIAL DRIVEWAY (PER EDM 503)	1
RIDGE / CHANGE OF GRADE LINE	169.05
SURFACE CONTOUR MINOR	169.00
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FOOTPATH	CH20.06
TACTILE GROUND SURFACE INDICATOR	CH20.06
KERB TRANSITION	CH20.06

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Rev	Amendments	Approved	Date
C	RE-ISSUED FOR APPROVAL	B.W	10-07-25
B	RE-ISSUED FOR APPROVAL	B.W	20-05-25
A	ISSUED FOR APPROVAL	B.W	25-03-25

Scale	AS SHOWN
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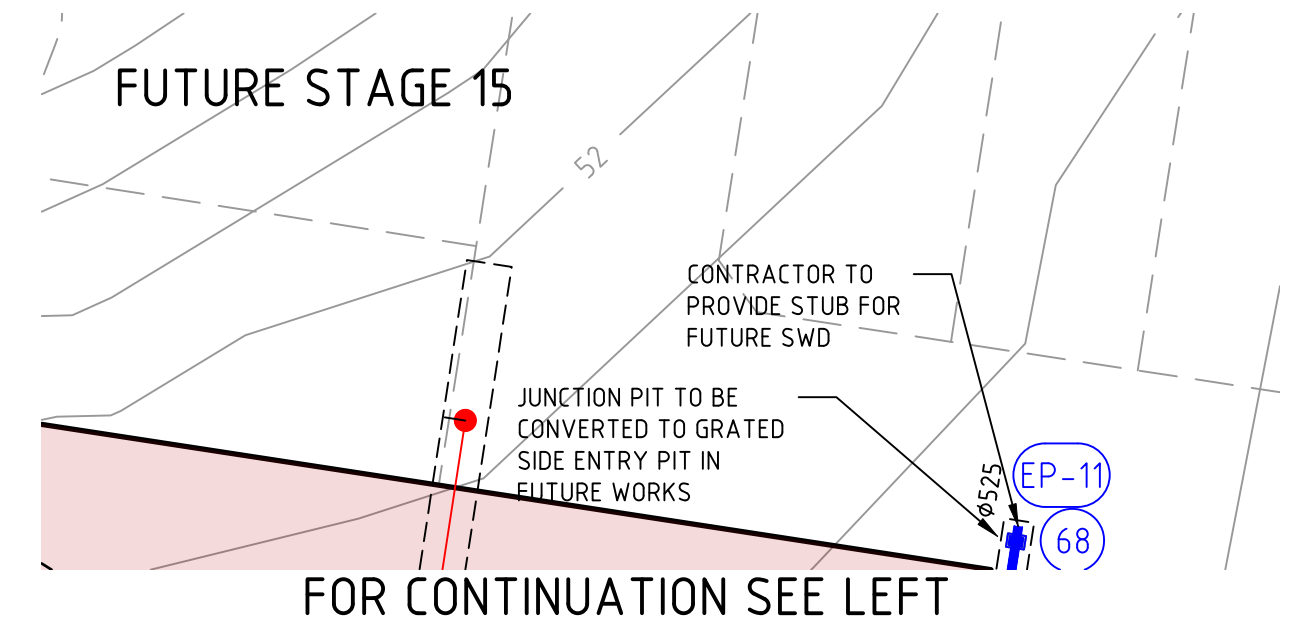
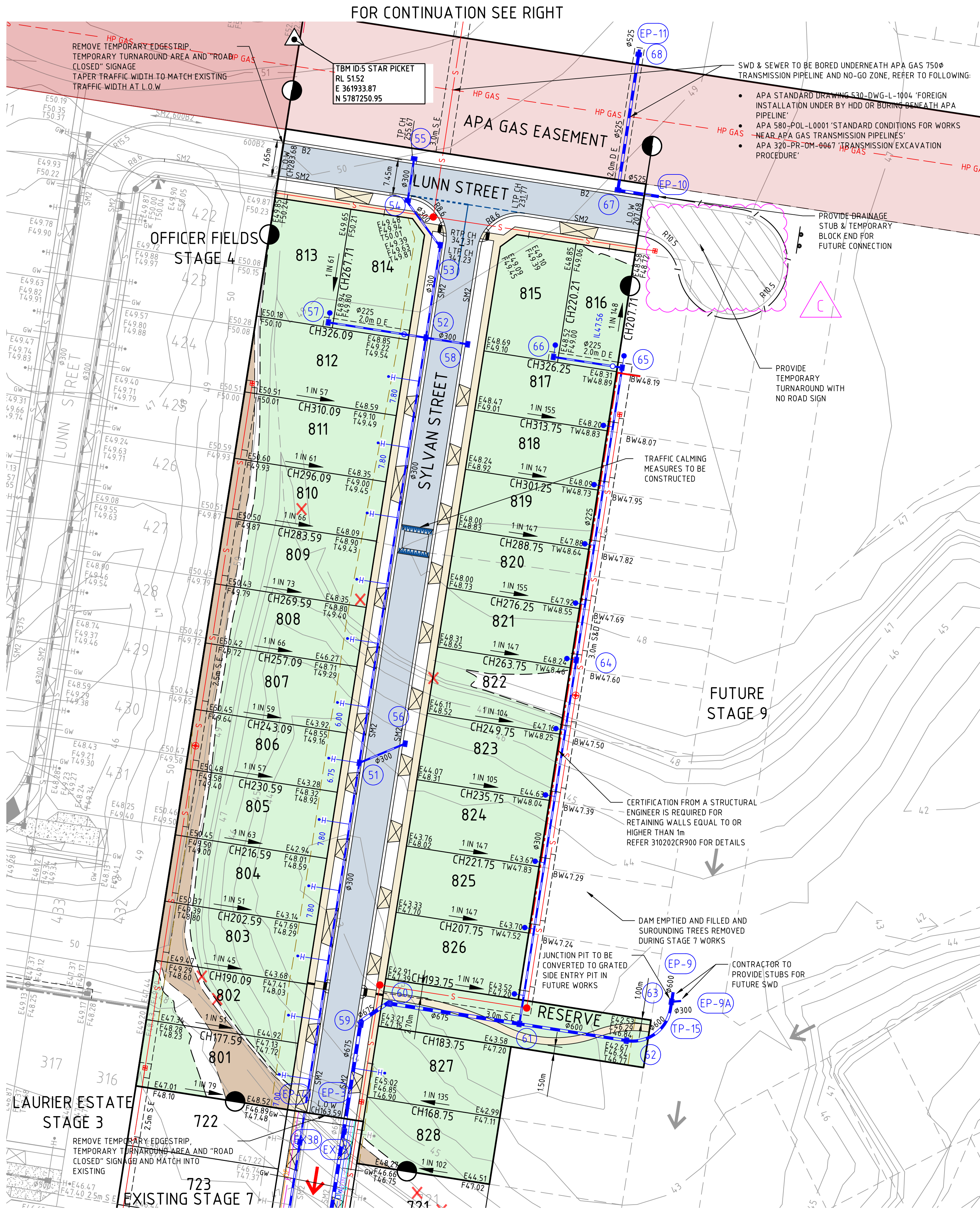
1/126 Albert Road Warragul
Victoria 3820 Australia T 61 3 5644 5000
spiire.com.au ABN 55 050 029 635

YourLand Developments

Designed P.COUNSEL	Checked A.CHARALAMBOUS
Authorised B.WAREHAM	Date MARCH 25

**OFFICER FIELDS
STAGE 8
ROAD AND DRAINAGE
GENERAL NOTES**
CARDINIA SHIRE COUNCIL
YOURLAND PTY LTD

PRELIMINARY Drg No **310202CR100** Rev **C**



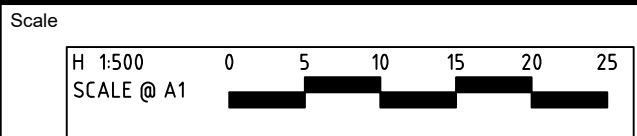
!!! BEWARE !!!
APA HIGH PRESSURE GAS TRANSMISSION LINE IN THE
VICINITY OF THE WORKS. "NO GO" ZONE EXTENDS
WITHIN THE APA GAS EASEMENT BOUNDARY.
NO CONSTRUCTION OR ACCESS IS TO BE UNDERTAKEN WITHIN
THE "NO GO" ZONE WITHOUT PRIOR APPROVAL FROM AN
APA INFRASTRUCTURE PROTECTION OFFICER. APA MAY BE
REQUIRED TO BE IN ATTENDANCE WHILST WORKS COMPLETED
IN VICINITY OF APA INFRASTRUCTURE. APA OFFICERS CAN BE
CONTACTED ON 1800 103 452 or APAProtection@apa.com.au



WARNING
BEWARE OF UNDERGROUND/OVERHEAD SERVICES
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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.

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Rev	Amendments	Approved	Date
C	RE-ISSUED FOR APPROVAL	B.W	10-07-25
B	RE-ISSUED FOR APPROVAL	B.W	20-05-25
A	ISSUED FOR APPROVAL	B.W	25-03-25



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YourLand
Developments

Designed
P.COUNSEL

Authorised
B.WAREHAM

Checked
A.CHARALAMBOUS

Date
MARCH 25

**OFFICER FIELDS
STAGE 8
ROAD AND DRAINAGE
FACE PLAN**
CARDINIA SHIRE COUNCIL
YOURLAND PTY LTD

PRELIMINARY

Drg No
310202CR200

Rev
C

FOR CONTINUATION SEE LEFT

WARNING
BEWARE OF UNDERGROUND/OVERHEAD SERVICES
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ROAD NAME	POTABLE WATER		RECYCLED WATER		GAS		NBN (TELECOM)		ELECTRICITY			
	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	POLE		U/G CABLE	
									SIDE	OFFSET	SIDE	OFFSET
SYLVAN STREET (LOTS 801-805)	E	2.75	E	2.25	E	1.80	W	1.80	W	1.10x	W	2.35
SYLVAN STREET (LOTS 806-812)	E	2.75	E	2.25	E	1.80	W	1.80	W	1.10x	W	2.35
LUNN STREET	S	2.75	S	2.25	S	1.80	N	0.50	N	1.00x	N	1.10

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| B | RE-ISSUED FOR APPROVAL | B.W | 20-05-25 |
| A | ISSUED FOR APPROVAL | B.W | 25-03-25 |
| Rev | Amendments | Approved | Date |



YourLand
Developments

Checked
A.CHARALAMBOUS
Date
MARCH 25

PRELIMINARY Drg No 310202CR201 Rev B

OFFICER FIELDS
STAGE 8
ROAD AND DRAINAGE
ROAD LONG SECTIONS
CARDINIA SHIRE COUNCIL
YOURLAND PTY LTD

Dwg No	Rev
PRELIMINARY 310202CR300	A

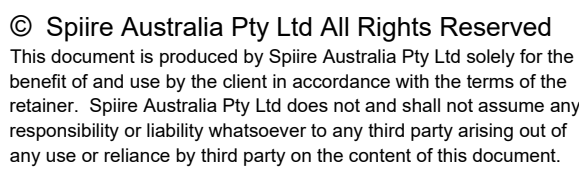
ALL FILLING WITHIN ROAD RESERVES IS TO BE UNDERTAKEN USING LEVEL 1 SUPERVISION AND BE COMPLETED IN ACCORDANCE WITH AS 3798-2007 AND TO THE SATISFACTION OF COUNCIL AND THE SUPERINTENDENT. FILL AREAS ARE TO BE STRIPPED OF TOPSOIL, FILLED AND REPLACED WITH TOPSOIL (WHERE REQUIRED) TO OBTAIN THE FINAL LEVELS SHOWN ON THE DRAWINGS.



Scale

H 1:100
SCALE @ A1
V 150

0 1 2 3 4 5
0 0.5 1 1.5 2 2.5



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PRELIMINARY Drg No **310202CR400** Rev **A**

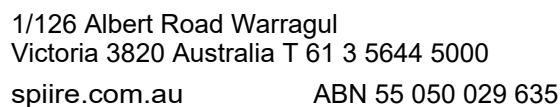
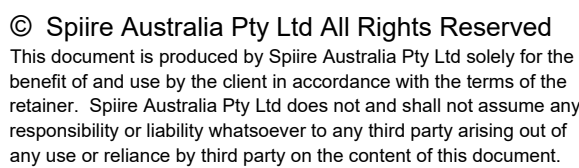
ALL FILLING WITHIN ROAD RESERVES IS TO BE UNDERTAKEN USING LEVEL 1 SUPERVISION AND BE COMPLETED IN ACCORDANCE WITH AS 3798-2007 AND TO THE SATISFACTION OF COUNCIL AND THE SUPERINTENDENT. FILL AREAS ARE TO BE STRIPPED OF TOPSOIL, FILLED AND REPLACED WITH TOPSOIL (WHERE REQUIRED) TO OBTAIN THE FINAL LEVELS SHOWN ON THE DRAWINGS.



Scale

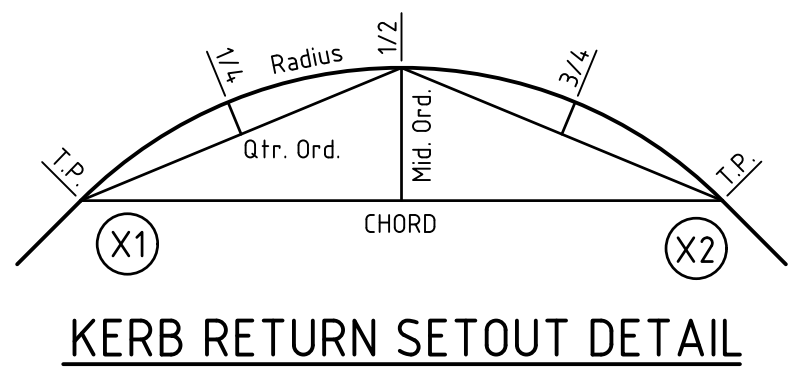
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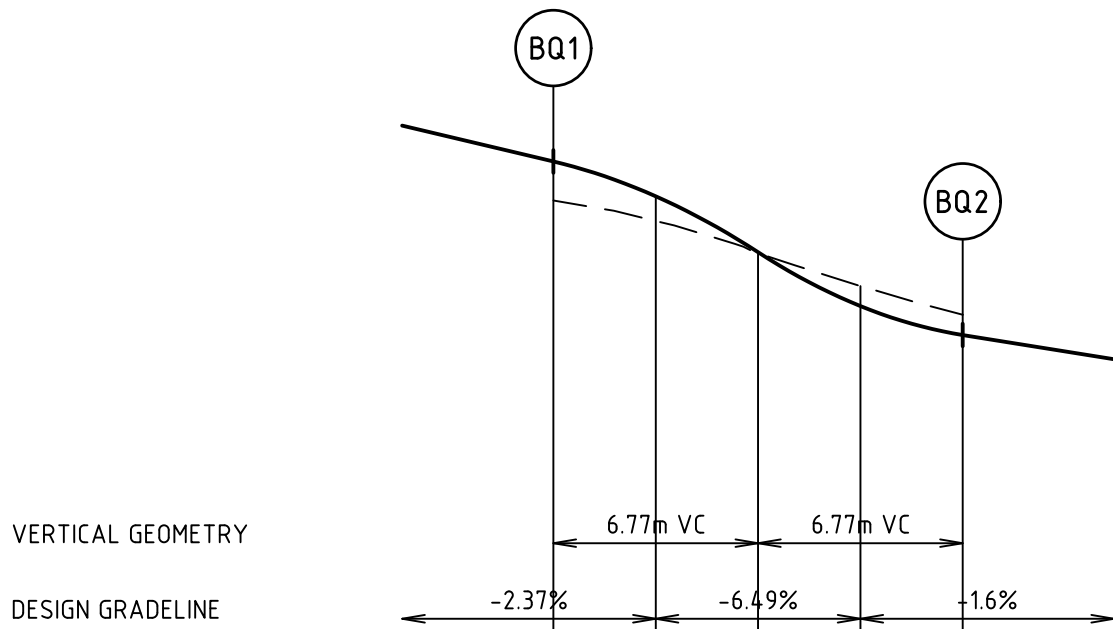
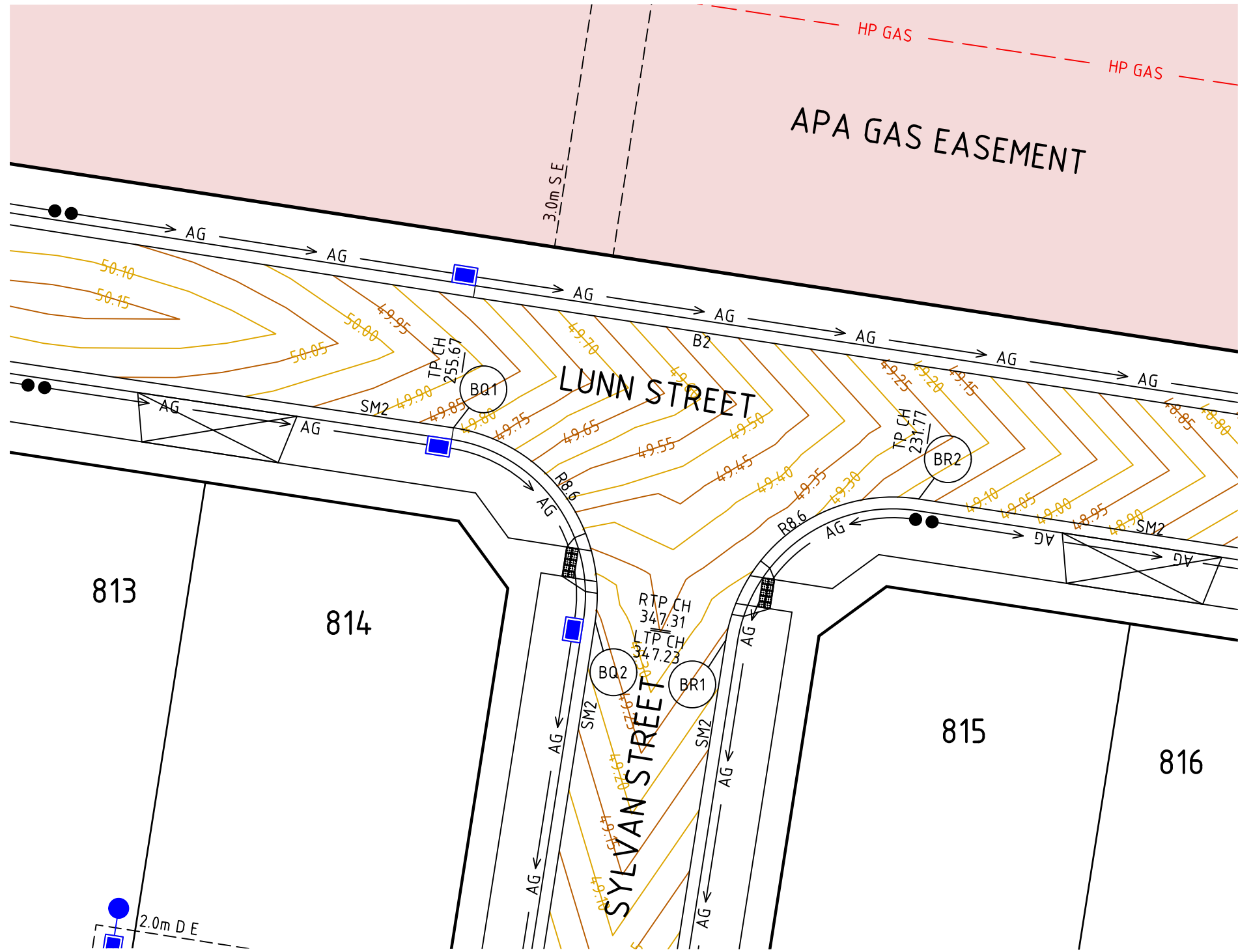


PRELIMINARY Drg No 310202CR401 Rev A

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KERB RETURN SETOUT DETAIL



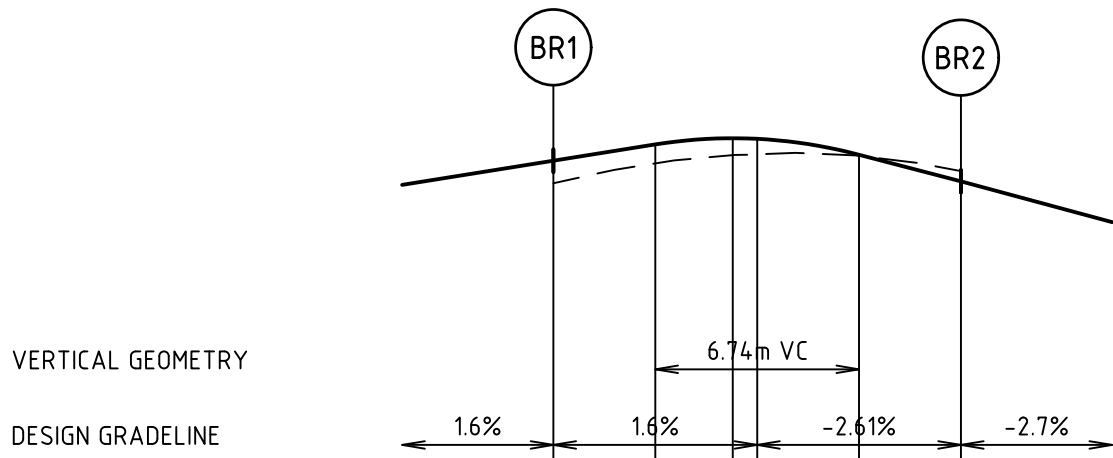
VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 48.0

DESIGN LEVEL	49.812	49.697	49.512	49.334	49.238
CHAINAGE	0.000	3.385	6.769	10.154	13.539

ALIGNMENT BQ



VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 48.0

DESIGN LEVEL	49.240	49.294	49.314	49.312	49.260	49.172
CHAINAGE	0.000	3.370	5.933	6.739	10.109	13.479

ALIGNMENT BR

ALIGNMENT BQ

POINT NO	EASTING	NORTHING	RL
BQ1	361958.273	5787218.326	49.812
1/4	361961.434	5787217.177	49.697
1/2	361963.912	5787214.904	49.512
3/4	361965.329	5787211.854	49.334
BQ2	361965.468	5787208.494	49.238

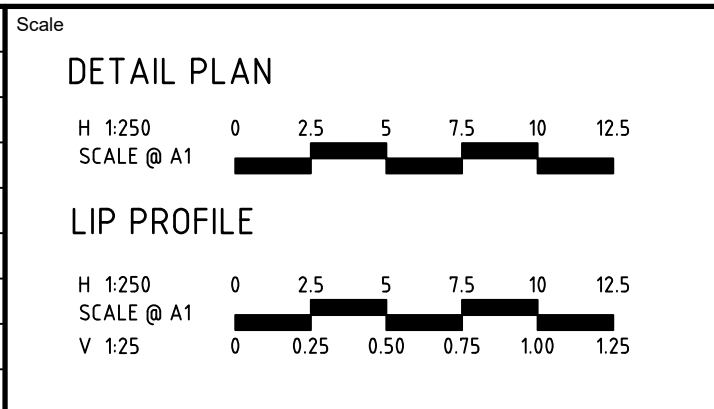
CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
BQ1-BQ2	8.600	13.539	12.183	2.530	0.658

ALIGNMENT BR

POINT NO	EASTING	NORTHING	RL
BR1	361972.101	5787207.540	49.240
1/4	361973.253	5787210.683	49.294
1/2	361975.518	5787213.149	49.312
3/4	361978.553	5787214.562	49.260
BR2	361981.898	5787214.710	49.172

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
BR1-BR2	8.600	13.479	12.141	2.508	0.652

Rev	Amendments	Approved	Date
A	ISSUED FOR APPROVAL	B.W	25-03-25



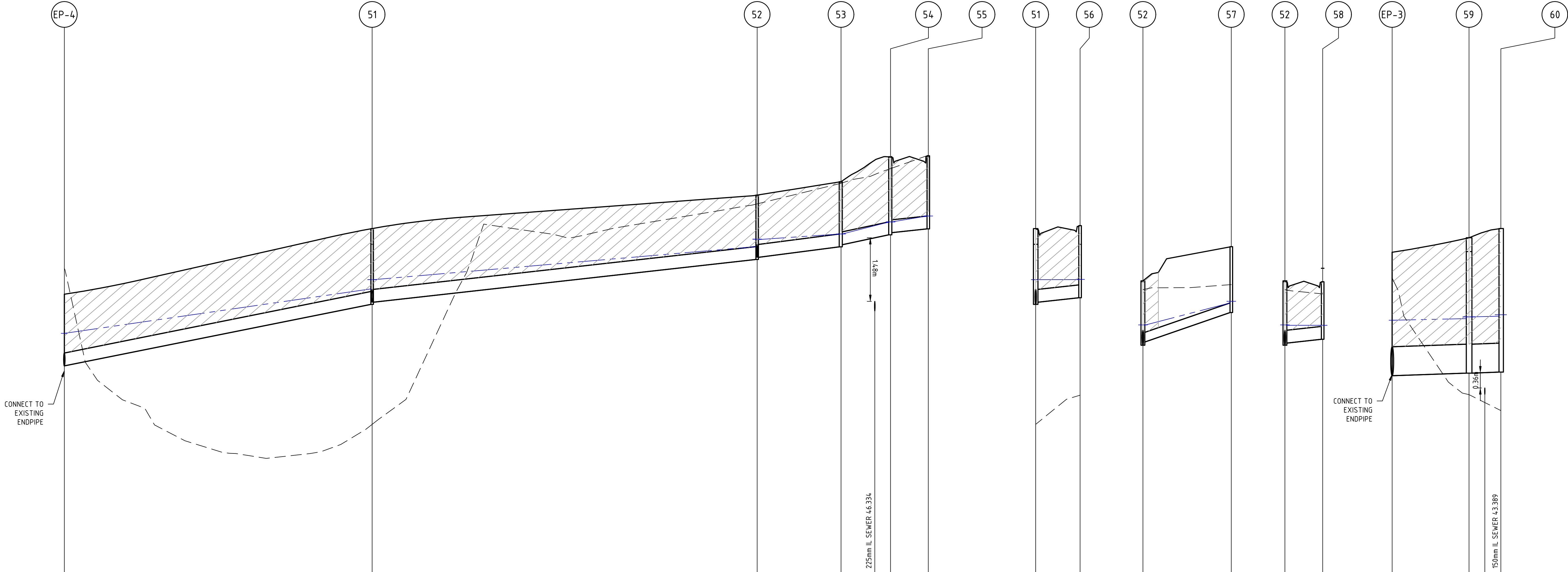
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YourLand Developments
Designed
P.COUNSEL
Authorised
B.WAREHAM
Checked
A.CHARALAMBOUS
Date
MARCH 25

OFFICER FIELDS
STAGE 8
ROAD AND DRAINAGE
INTERSECTION DETAILS
CARDINIA SHIRE COUNCIL
YOURLAND PTY LTD
PRELIMINARY Drg No 310202CR500 Rev A

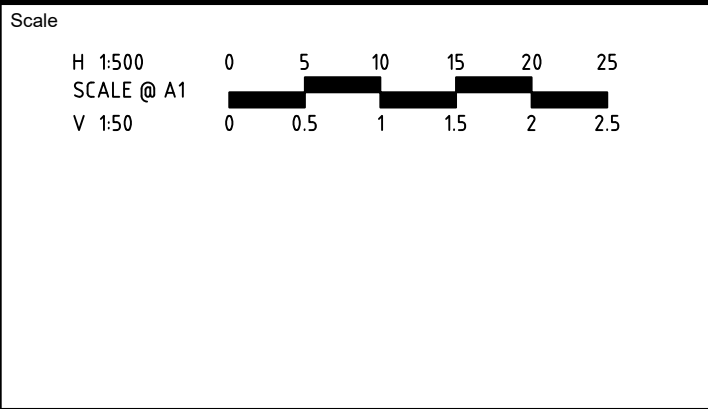
CRUSHED ROCK BACKFILL



Pipe Diameter	Ø300	Ø300	Ø300	Ø300	Ø300	Ø300	Ø225	Ø300	Ø675	Ø675
Pipe Class	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2
Pipe Grade	1 in 50	1 in 90	1 in 80	1 in 50	1 in 100	1 in 100	1 in 30	1 in 100	1 in 300	1 in 300
Velocity (m/s)	Vf=1.936	Vf=1.443	Vf=1.530	Vf=1.936	Vf=1.369	Vf=1.369	Vf=2.063	Vf=1.369	Vf=1.357	Vf=1.357
Pipe Flow (m3/s)	Qa=0.116	Qa=0.066	Qa=0.007	Qa=0.005	Qa=0.002	Qa=0.009	Qa=0.013	Qa=0.003	Qa=0.381	Qa=0.373
Pipe Capacity (m3/s)	Qcap=0.137	Qcap=0.102	Qcap=0.108	Qcap=0.137	Qcap=0.097	Qcap=0.097	Qcap=0.082	Qcap=0.097	Qcap=0.485	Qcap=0.485
DATUM RL	38.00					38.00	40.00	40.00	37.00	
DEPTH TO INVERT	1.671	1.717	1.501	1.451	1.520	1.470		1.501	2.879	3.348
DESIGN INVERT LEVEL	45.053	46.488	47.536	47.586	48.040	48.111		47.536	43.825	45.212
HYDRAULIC GRADE LEVEL	45.813	46.849	47.836	48.009	48.130	48.111		48.009	43.884	45.212
FINISHED SURFACE LEVEL	46.725	47.065	48.256	48.326	48.326	48.412		48.000	43.884	45.212
EXISTING SURFACE LEVEL	47.326	48.256	49.037	49.350	49.654	49.925		49.016	47.042	47.257
CHAINAGE	0.000	71.751	161.500	181.046	188.094	192.590		20.600	17.914	25.328
		L=71.751m	L=89.749m	L=19.546m	L=11.544m	L=8.800m		L=8.800m	L=17.914m	L=7.414m

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Rev	Amendments	Approved	Date
B	RE-ISSUED FOR APPROVAL	B.W	20-05-25
A	ISSUED FOR APPROVAL	B.W	25-03-25



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YourLand Developments

Designed
C.DUFFY

Authorised
B.WAREHAM

Checked
A.CHARALAMBOUS

Date
MARCH 25

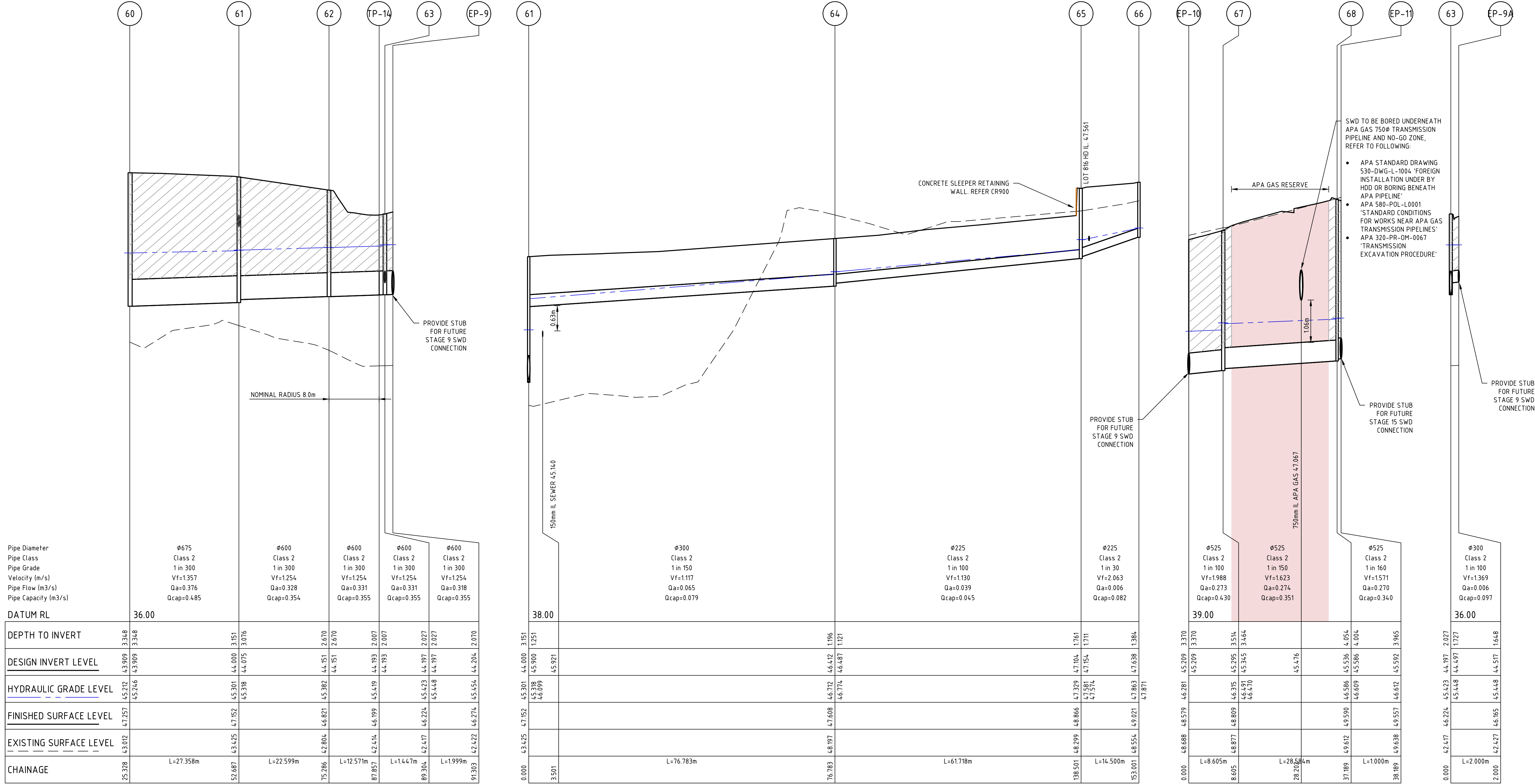
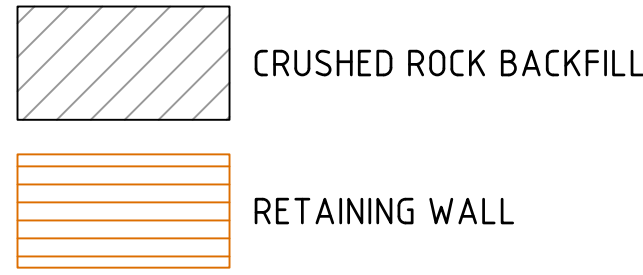
**OFFICER FIELDS
STAGE 8
ROAD AND DRAINAGE
DRAINAGE LONG SECTIONS - SHEET 1**
CARDINIA SHIRE COUNCIL
YOURLAND PTY LTD

PRELIMINARY

Drg No
310202CR600

Rev
B

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Pipe Diameter	Ø675	Ø600	Ø600	Ø600	Ø600
Pipe Class	Class 2	Class 2	Class 2	Class 2	Class 2
Pipe Grade	1 in 300	1 in 300	1 in 300	1 in 300	1 in 300
Velocity (m/s)	Vf=1.357	Vf=1.254	Vf=1.254	Vf=1.254	Vf=1.254
Pipe Flow (m3/s)	Qa=0.376	Qa=0.328	Qa=0.331	Qa=0.331	Qa=0.318
Pipe Capacity (m3/s)	Qcap=0.485	Qcap=0.354	Qcap=0.355	Qcap=0.355	Qcap=0.355
DATUM RL	36.00				
DEPTH TO INVERT	3.348	3.151	2.670	2.007	2.070
DESIGN INVERT LEVEL	43.909	44.000	44.151	44.193	44.204
HYDRAULIC GRADE LEVEL	45.212	45.301	45.382	45.419	45.454
FINISHED SURFACE LEVEL	47.257	47.152	46.821	46.199	46.274
EXISTING SURFACE LEVEL	43.012	43.425	42.804	42.414	42.422
CHAINAGE	25.328	52.687	75.286	87.857	91.303

Pipe Diameter	Ø300	Ø225	Ø225
Pipe Class	Class 2	Class 2	Class 2
Pipe Grade	1 in 150	1 in 100	1 in 30
Velocity (m/s)	Vf=1.117	Vf=1.130	Vf=2.063
Pipe Flow (m3/s)	Qa=0.065	Qa=0.039	Qa=0.006
Pipe Capacity (m3/s)	Qcap=0.079	Qcap=0.045	Qcap=0.082
DATUM RL	38.00		
DEPTH TO INVERT	1.251	1.196	1.761
DESIGN INVERT LEVEL	45.900	46.412	47.104
HYDRAULIC GRADE LEVEL	46.099	46.712	47.581
FINISHED SURFACE LEVEL	45.921	46.487	47.154
EXISTING SURFACE LEVEL		46.774	47.574
CHAINAGE	3.501	76.783	138.501

Pipe Diameter	Ø525	Ø525	Ø525	Ø300
Pipe Class	Class 2	Class 2	Class 2	Class 2
Pipe Grade	1 in 100	1 in 150	1 in 160	1 in 100
Velocity (m/s)	Vf=1.988	Vf=1.623	Vf=1.571	Vf=1.369
Pipe Flow (m3/s)	Qa=0.273	Qa=0.274	Qa=0.270	Qa=0.006
Pipe Capacity (m3/s)	Qcap=0.430	Qcap=0.351	Qcap=0.340	Qcap=0.097
DATUM RL	39.00			36.00
DEPTH TO INVERT	3.370	4.054	4.004	2.027
DESIGN INVERT LEVEL	45.209	45.295	45.536	44.457
HYDRAULIC GRADE LEVEL	46.281	46.315	46.586	45.448
FINISHED SURFACE LEVEL	48.579	48.809	49.590	46.224
EXISTING SURFACE LEVEL	48.688	48.877	49.612	46.224
CHAINAGE	8.605	28.205	37.189	42.417

!!!! BEWARE !!!!
APA HIGH PRESSURE GAS TRANSMISSION LINE IN THE VICINITY OF THE WORKS. "NO GO" ZONE EXTENDS WITHIN THE APA GAS EASEMENT BOUNDARY. NO CONSTRUCTION OR ACCESS IS TO BE UNDERTAKEN WITHIN THE "NO GO" ZONE WITHOUT PRIOR APPROVAL FROM AN APA INFRASTRUCTURE PROTECTION OFFICER. APA MAY BE REQUIRED TO BE IN ATTENDANCE WHILST WORKS COMPLETED IN VICINITY OF APA INFRASTRUCTURE. APA OFFICERS CAN BE CONTACTED ON 1800 103 452 or APAProtection@apa.com.au

Rev	B	RE-ISSUED FOR APPROVAL	B.W	20-05-25
Rev	A	ISSUED FOR APPROVAL	B.W	25-03-25
Rev		Amendments	Approved	Date

Scale

H 1500
SCALE @ A1
V 150

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System Certified

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YourLand Developments

Designed
C.DUFFY

Authorised
B.WAREHAM

Checked
A.CHARALAMBOUS

Date
MARCH 25

OFFICER FIELDS
STAGE 8
ROAD AND DRAINAGE
DRAINAGE LONG SECTIONS - SHEET 2
CARDINIA SHIRE COUNCIL
YOURLAND PTY LTD

PRELIMINARY

Drg No
310202CR601

Rev
B

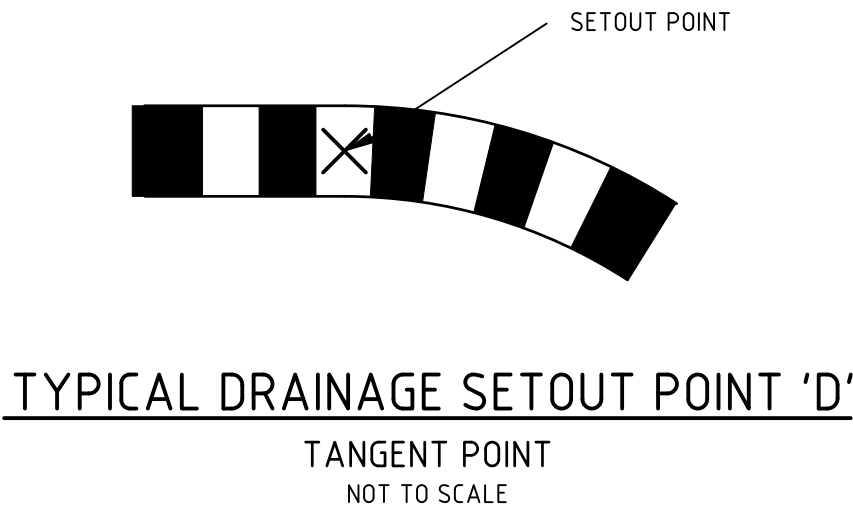
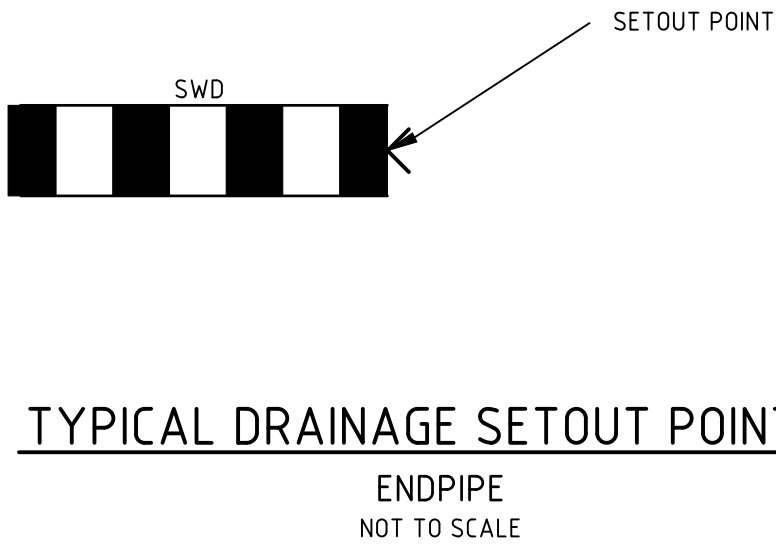
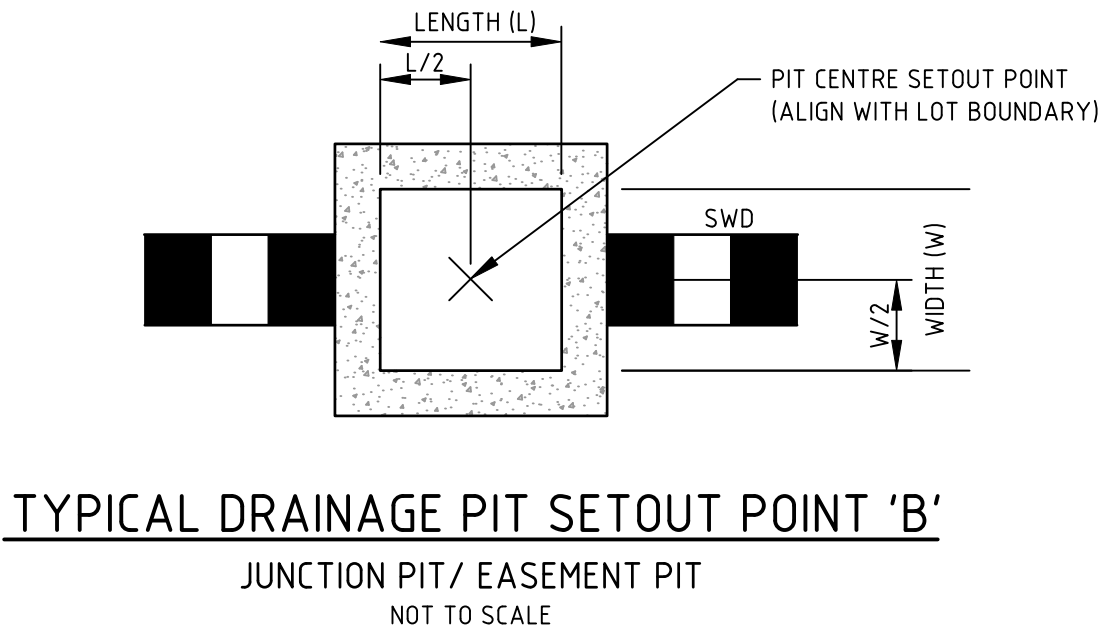
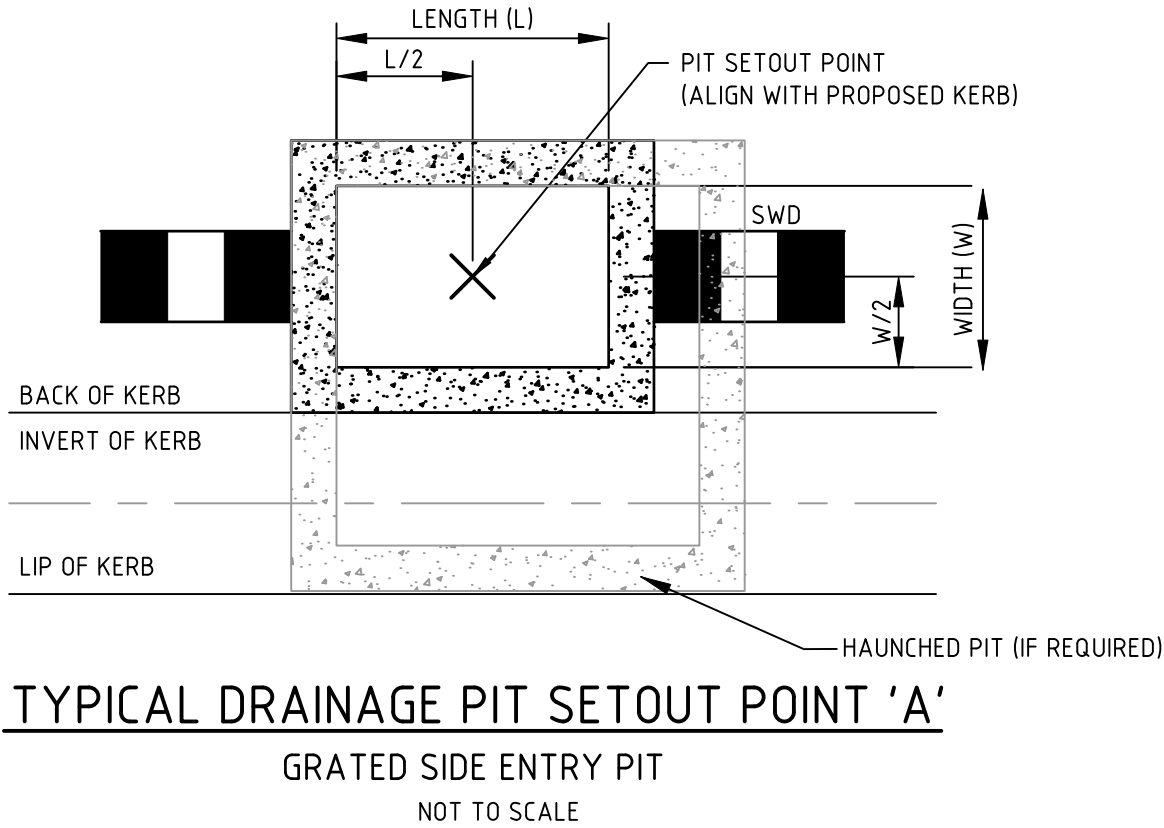
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DRAINAGE PIT SCHEDULE

PIT		INTERNAL		INLET		OUTLET		PIT		REMARKS
NAME	TYPE	WIDTH	LENGTH	DIA	INV LEVEL	DIA	INV LEVEL	FS LEVEL	DEPTH	
EP-3	ENDPIPE	0	0	675	43.825	675	43.825	46.704	2.879	
EP-4	ENDPIPE	0	0	300	45.053	300	45.053	46.725	1.671	
51	GRATED SIDE ENTRY PIT	600	900	300	46.538	300	46.488	48.256	1.767	REFER EDCM 603 AND 605
				300	46.538					
52	GRATED SIDE ENTRY PIT	600	900	300	47.586	300	47.536	49.037	1.501	REFER EDCM 603 AND 605
				225	47.611					
				300	47.586					
53	GRATED SIDE ENTRY PIT	600	900	300	47.880	300	47.830	49.350	1.520	REFER EDCM 603 AND 605
54	GRATED SIDE ENTRY PIT	600	900	300	48.161	300	48.111	49.925	1.814	REFER EDCM 603 AND 605
55	GRATED SIDE ENTRY PIT	600	900			300	48.249	49.955	1.706	REFER EDCM 601 AND 605
56	GRATED SIDE ENTRY PIT	600	900			300	46.642	48.326	1.684	REFER EDCM 603 AND 605
57	JUNCTION PIT	600	900			225	48.297	49.835	1.537	REFER EDCM 605
58	GRATED SIDE ENTRY PIT	600	900			300	47.674	49.016	1.342	REFER EDCM 603 AND 605
59	GRATED SIDE ENTRY PIT	1350	900	675	43.884	675	43.884	47.042	3.158	REFER EDCM 603 AND 605
60	GRATED JUNCTION PIT	600	1200	675	43.909	675	43.909	47.257	3.348	REFER EDCM 605 W/ GRATED LID
61	GRATED JUNCTION PIT	600	900	600	44.075	675	44.000	47.152	3.151	REFER EDCM 605 W/ GRATED LID
				300	45.900					
62	GRATED JUNCTION PIT	600	900	600	44.151	600	44.151	46.821	2.670	REFER EDCM 605 W/ GRATED LID
TP-14	TANGENT POINT	0	0	600	44.193	600	44.193	46.199	2.007	
63	JUNCTION PIT	750	900	600	44.197	600	44.197	46.224	2.027	REFER EDCM 605 AND 607. JP TO BE CONVERTED TO GSEP AS PART OF STAGE 9 WORKS.
				300	44.497					
EP-9	ENDPIPE	0	0	600	44.204	600	44.204	46.274	2.070	
64	JUNCTION PIT	600	900	225	46.487	300	46.412	47.608	1.196	REFER EDCM 605
65	JUNCTION PIT	600	900	225	47.154	225	47.104	48.866	1.761	REFER EDCM 605
66	JUNCTION PIT	600	900			225	47.638	49.021	1.384	REFER EDCM 605
67	GRATED SIDE ENTRY PIT	750	900	525	45.345	525	45.295	48.809	3.514	REFER EDCM 601 AND 605
68	JUNCTION PIT	600	900	525	45.586	525	45.536	49.590	4.054	REFER EDCM 606. JP TO BE CONVERTED TO GSEP AS PART OF FUTURE WORKS.
EP-11	ENDPIPE	0	0	525	45.592	525	45.592	49.557	3.965	
EP-9A	ENDPIPE	0	0	300	44.517	300	44.517	46.165	1.648	
EP-10	ENDPIPE	0	0	525	45.209	525	45.209	48.579	3.370	

DRAINAGE PIT SCHEDULE

PIT		COORDINATES	
NAME	TYPE	EASTING	NORTHING
51	A	361947.424	5787100.087
52	A	361961.314	5787188.755
53	A	361964.338	5787208.066
54	A	361957.518	5787217.379
55	A	361958.849	5787226.078
56	A	361956.961	5787104.109
57	B	361940.961	5787191.944
58	A	361970.008	5787187.393
59	A	361947.785	5787045.537
60	B	361953.776	5787049.905
61	B	361980.805	5787045.673
62	B	362003.132	5787042.176
TP-14	D	362012.274	5787048.846
63	B	362012.499	5787050.276
EP-9	C	362012.809	5787052.251
64	B	361992.688	5787121.530
65	B	362002.239	5787182.505
66	B	361987.914	5787184.749
67	A	362001.359	5787219.571
68	B	362005.683	5787247.826
EP-11	C	362005.835	5787248.814
EP-9A	C	362014.492	5787050.442
EP-10	C	362009.864	5787218.269



B	RE-ISSUED FOR APPROVAL	B.W	20-05-25	
A	ISSUED FOR APPROVAL	B.W	25-03-25	
Rev	Amendments	Approved	Date	

Scale
AS SHOWN



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YourLand Developments	
Designed C.DUFFY	Checked A.CHARALAMBOUS
Authorised B.WAREHAM	Date MARCH 25

OFFICER FIELDS STAGE 8 ROAD AND DRAINAGE PIT SCHEDULE CARDINIA SHIRE COUNCIL YOURLAND PTY LTD	
PRELIMINARY	Drg No 310202CR602
	Rev B

DESIGN PAVEMENT PROFILE

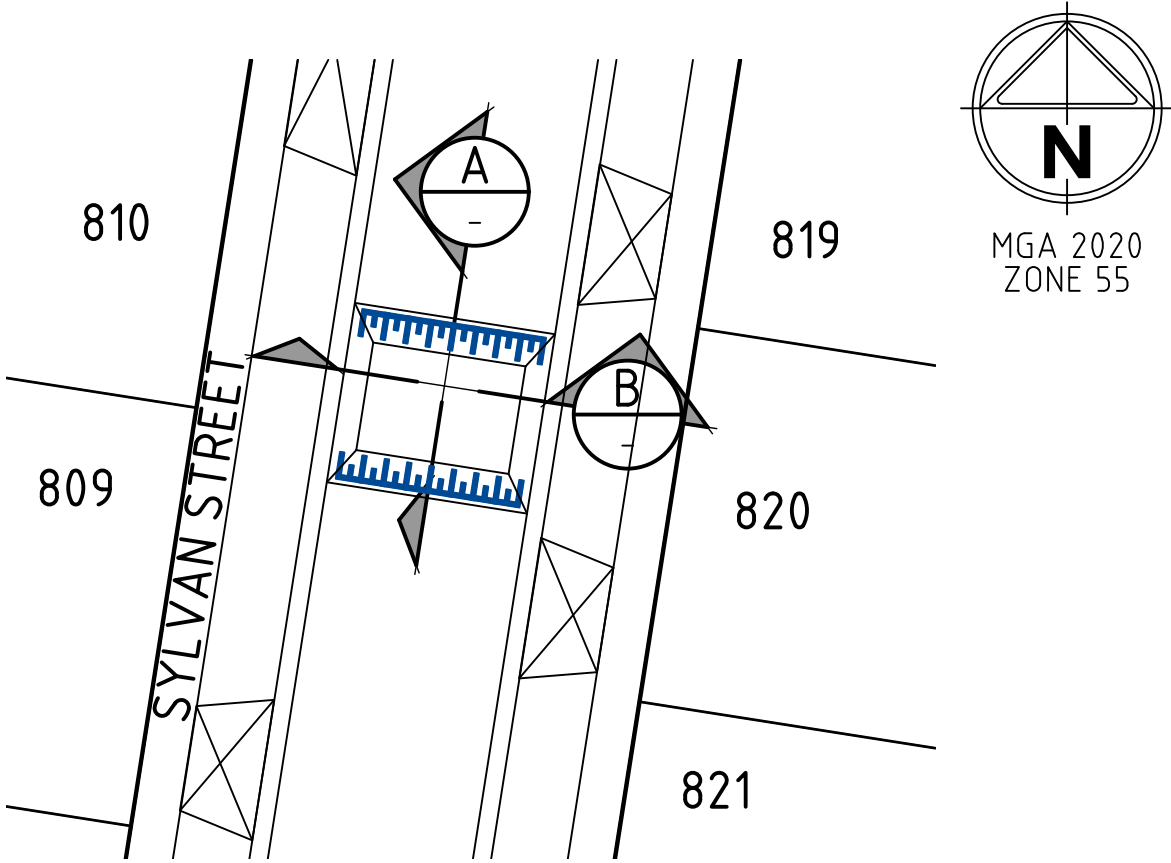
PAVEMENT LAYER	DESCRIPTION	TYPE A*
WEARING COURSE ASPHALT	SIZE 10mm TYPE N CLASS 170 BINDER	30
BASE COURSE ASPHALT	SIZE 10mm TYPE N CLASS 170 BINDER	30
SAMI SIZE 10mm S18RF		Y
BASE	20mm CLASS 2 CRUSHED ROCK	130
SUBBASE	20mm CLASS 3 CRUSHED ROCK OR CRUSHED CONCRETE	240
CAPPING	VICROADS TYPE A FILL AS DESCRIBED IN SECTION 6.3 OF DOUGLAS PARTNERS 2023 REPORT	150
CONSTRUCTION LAYER	VICROADS TYPE A FILL (CBR ≥ 8% AS DESCRIBED IN SECTION 6.2 OF DOUGLAS PARTNERS 2023 REPORT	150
TOTAL PAVEMENT DEPTH		730

* REFER PAVEMENT PLAN FOR LOCATION OF PAVEMENT TYPES

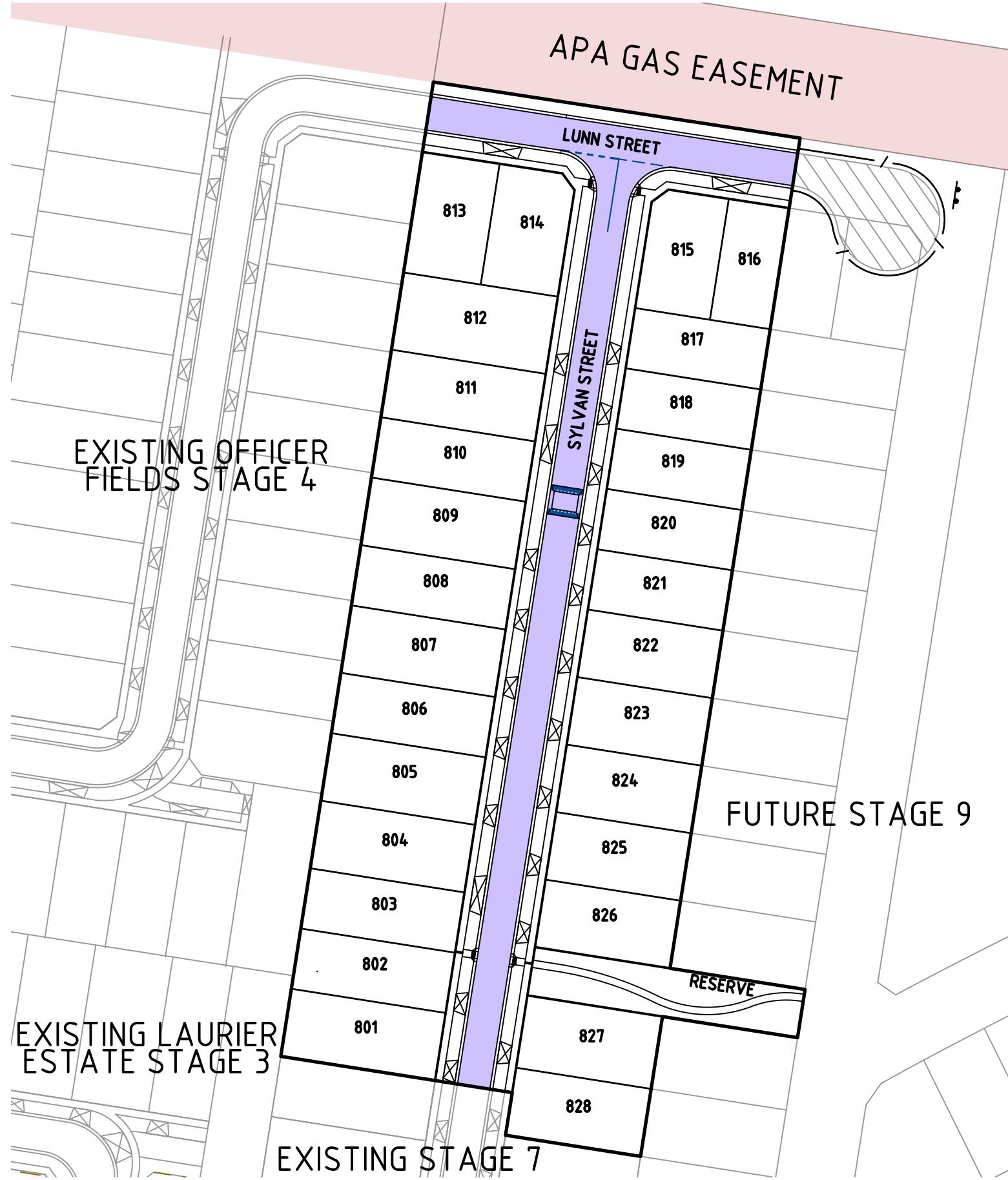
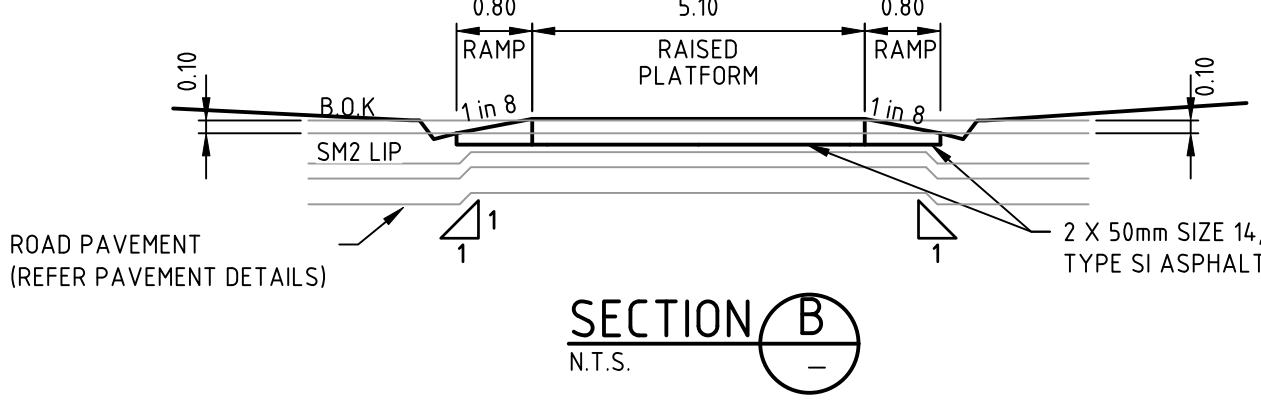
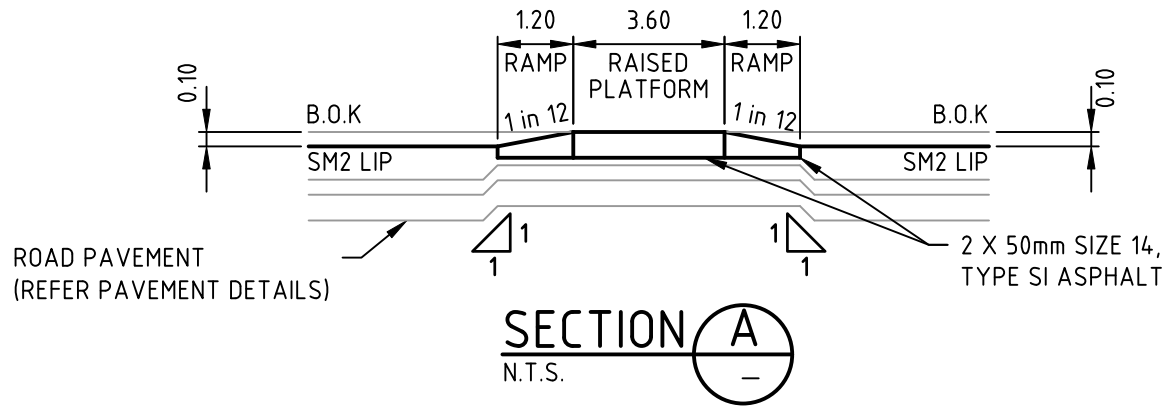
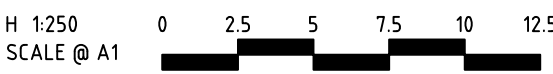
ROAD NAME	TYPE
SYLVAN STREET	A
LUNN STREET	A

GENERAL NOTES:

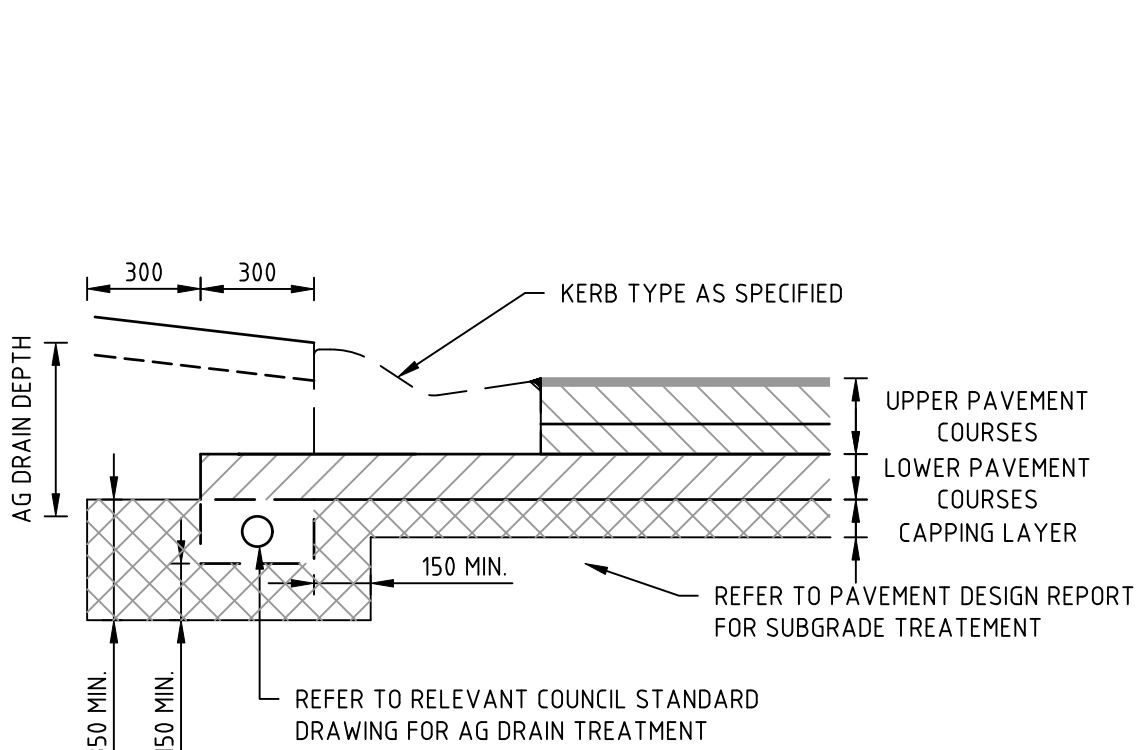
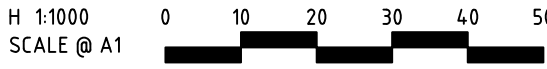
1. ALL WORKS TO BE COMPLETED IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS AND CCAA LITERATURE; OR VIC ROADS STANDARDS FOR NON RESIDENTIAL STREETS.
2. ALL CONCRETE TO BE MINIMUM 32MPa COMPRESSIVE STRENGTH
3. CONCRETE TO BE THOROUGHLY COMPACTED USING EITHER SURFACE AND/OR IMMERSION VIBRATORS, PARTICULARLY AROUND REINFORCEMENT AND IN CORNERS OF FORMS.
4. PRIOR TO CASTING, THE UNBOUND GRANULAR SUBBASE MUST BE DAMP TO ENSURE NO EARLY "DRYING OUT" OF THE CONCRETE.
5. CURING OF CONCRETE IS ESSENTIAL - IDEALLY BY MAINTAINING WET HESSIAN OR SEALING WITH PLASTIC SHEETING.
6. SAW CUTTING OF CONCRETE SHOULD BE COMMENCED AS SOON AS CONCRETE PERMITS BY EXPERIENCED CONTRACTORS, BUT NO LATER THAN 12 HOURS AFTER POUR.
7. 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.
8. ALL JOINTS TO BE APPROPRIATELY SEALED TO RESIST THE INTRUSION OF SAND AND GRAVEL AND TO MINIMISE THE INGRESS OF WATER.



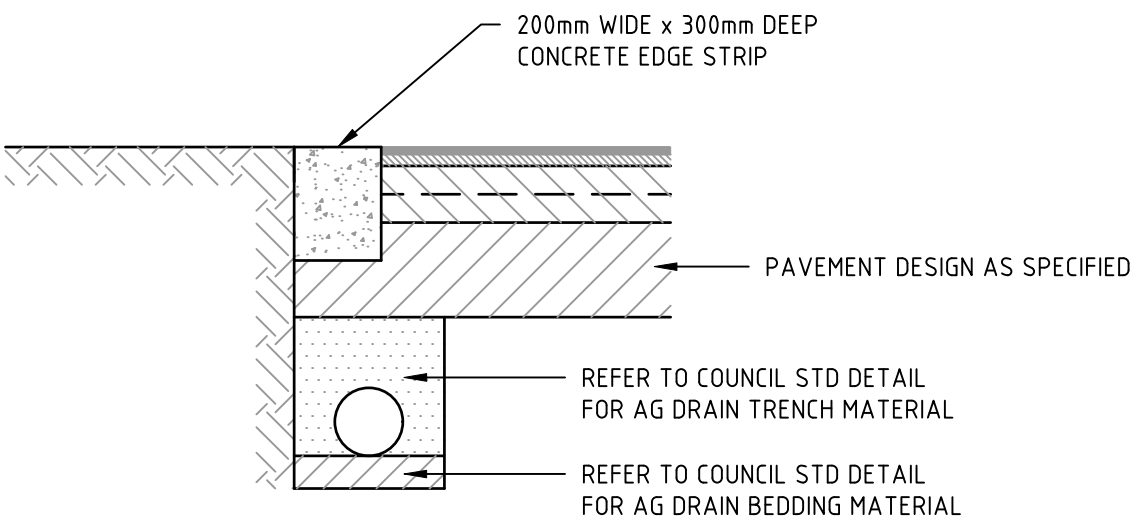
SPEED HUMP
TYPICAL DETAIL



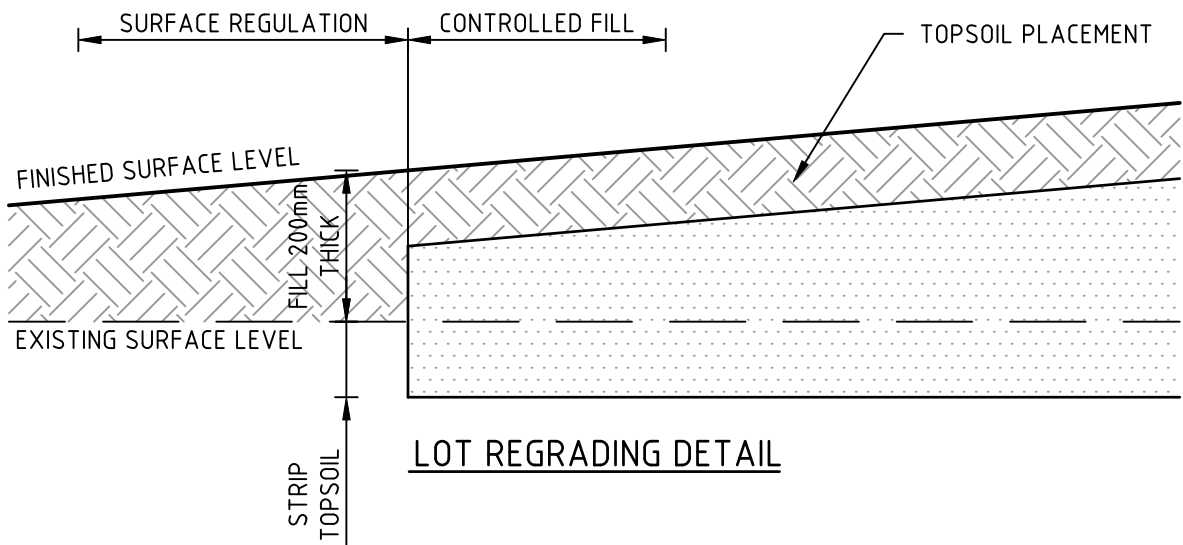
PAVEMENT PLAN



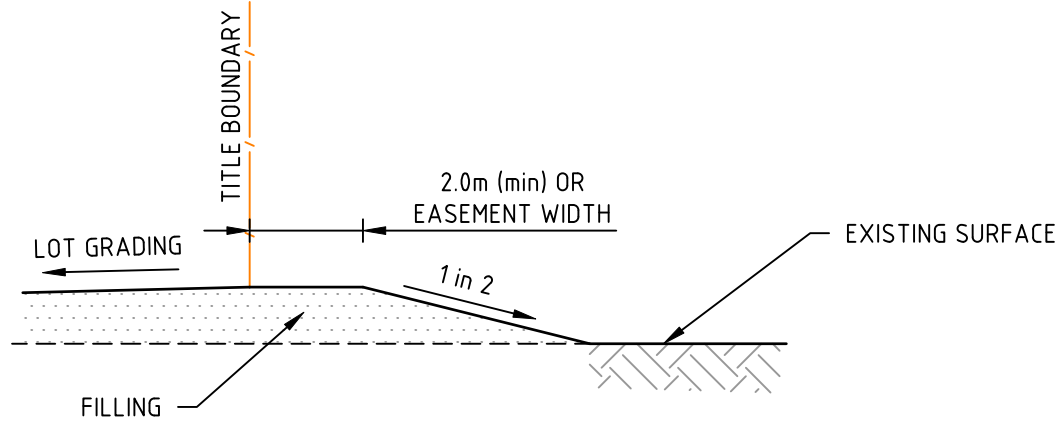
TYPICAL SUBSURFACE DRAIN DETAIL FOR EXPANSIVE SUBGRADE
REFER TO AUTHORITY REQUIREMENTS FOR SPECIFIC DETAILS



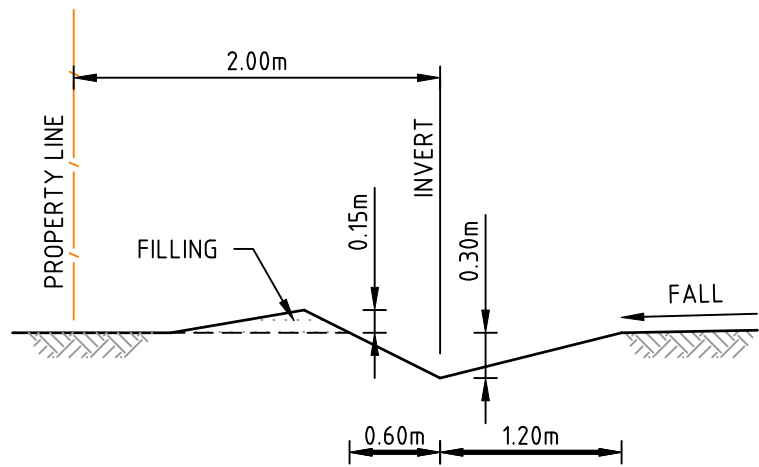
LIMIT OF WORKS CONCRETE EDGE STRIP & PAVEMENT INTERFACE DETAIL



LOT REGRADING DETAIL



LOT FILLING AT STAGE BOUNDARY



TYPICAL CATCH DRAIN SECTION

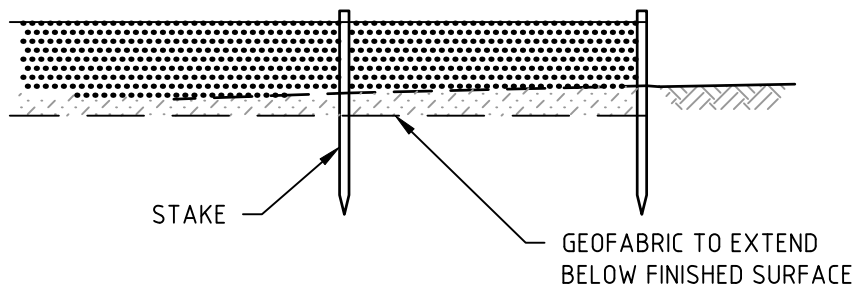
PAVEMENT DETAILS

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

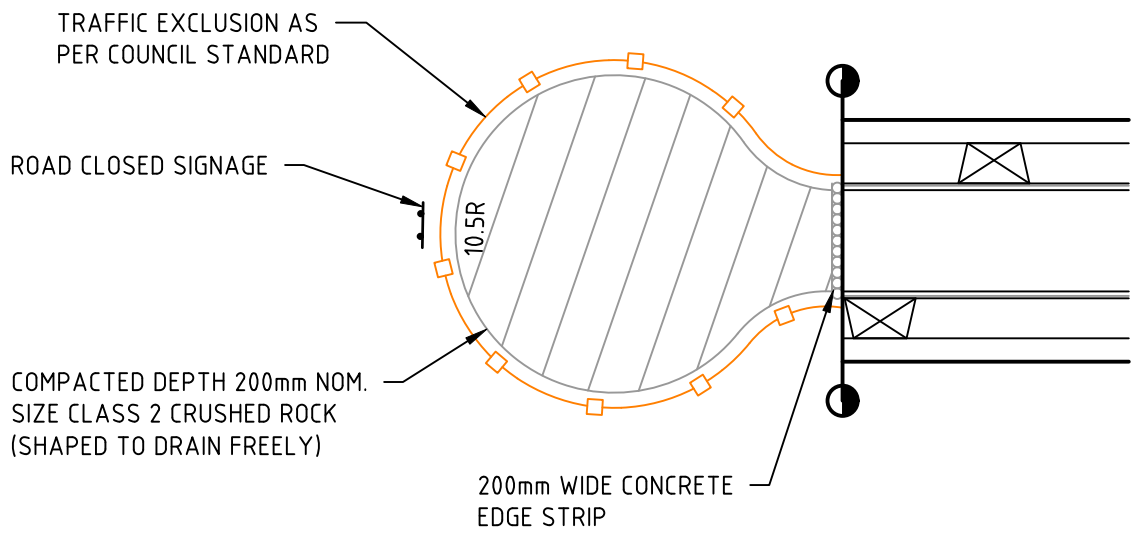
THE DESIGN HAS BEEN EXTRACTED FROM THE 204929.00.R.002.Rev1 REPORT ON "GEOTECHNICAL INVESTIGATION FOR ORCHARD SITE, 373-405 BROWN ROAD, OFFICER" THIS DOCUMENT SHOULD BE REVIEWED TO ENSURE THAT THE DESIGN HAS BEEN ACCURATELY REPRODUCED.

A COPY OF THE DOCUMENT WILL BE PROVIDED ON REQUEST.

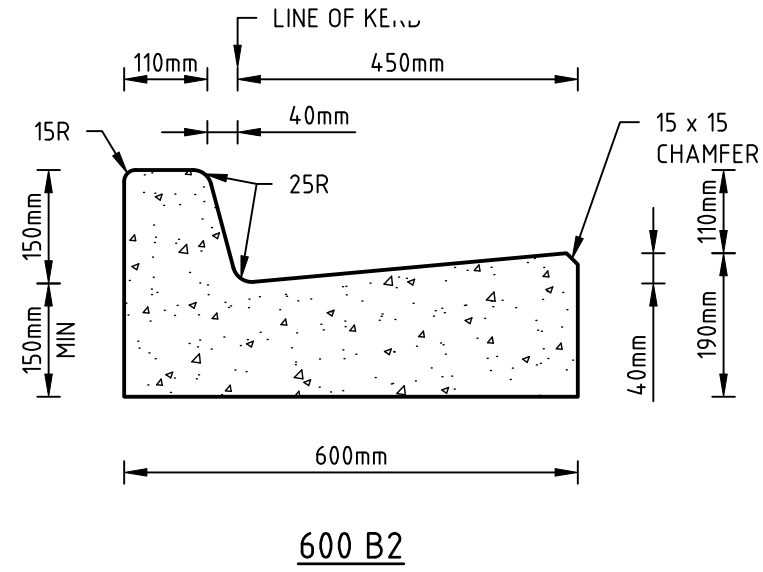
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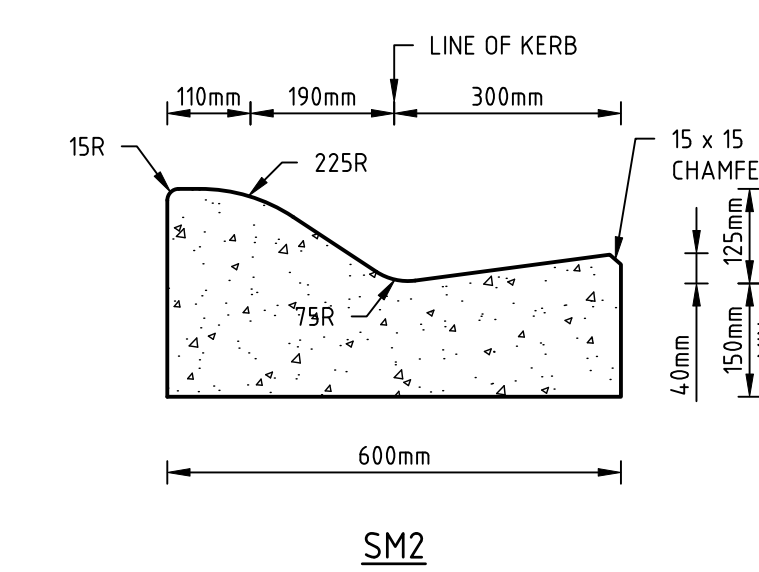
SILT CONTROL FOR LOTS
GEOFABRIC SILT FENCE



TEMPORARY TURNING AREA DETAIL



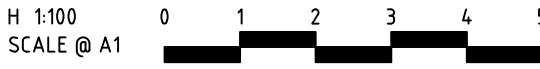
600 B2



SM2

STANDARD KERB PROFILES

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



file name: 310202CR700.dwg, layout name: C0700, plotted by: Spspiire, file location: E:\Synergy\comp\2020\310202CR700.dwg, plot date: 10/07/2025 11:40 AM, Sheet ----- of -----, Sheets

Scale

Rev	A	ISSUED FOR APPROVAL	B.W	25-03-25
Rev		Amendments	Approved	Date



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Designed
P.COUNSEL
Authorised
B.WAREHAM
Checked
A.CHARALAMBOUS
Date
MARCH 25

OFFICER FIELDS
STAGE 8
ROAD AND DRAINAGE
PAVEMENT AND TYPICAL DETAILS
CARDINIA SHIRE COUNCIL
YOURLAND PTY LTD

PRELIMINARY Drg No 310202CR700 Rev A



S1		R1-2A
S2		G9-20
S3		D4-5
S4		W8-2(20km/h)
S5		W5-10

1. STREET SIGNS ARE TO BE MOUNTED ON SEPARATE POLES, WITH A COUNCIL APPROVED BRACKET.
2. TGSi's MUST BE PROVIDED IN ACCORDANCE WITH THE AUSTRALIAN STANDARD 1428.4.1
3. SIGNS MUST BE A MINIMUM 1m CLEAR FROM DRIVEWAYS.

SYMBOL:	DESCRIPTION:	REMARK:
	PARKING & LANE LINE	100mm WIDE
	HOLDING LINE (GIVEWAY)	600mm LINE, 600mm GAP, 300mm WIDE
	CONTINUITY LINE (MEDIAN OPENING)	600mm LINE, 600mm GAP, 150mm WIDE
	ONE-WAY RRP	AS1742.2 - 2009
	TACTILE GROUND SURFACE INDICATORS (TGSIs)	AS1428.4.1 - 2009

Checked
A.CHARALAMBOUS
Date
MARCH 25

PRELIMINARY Drg No **310202CR800** Rev **A**

