



LOCALITY PLAN MELWAYS REF: 468 D6

leopold ®

Designed for Living awood

Principal Leopold Property Development Pty Ltd Level 1, 6 Riverside Quay Southbank, Victoria 3006

# Estuary Stage 9

## City Of Greater Geelong

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Level 1, 47 Pakington Street, Geelong West, VIC, 3218 Tel: +61 3 5228 3100 Fax: +61 3 5228 3199 A.B.N. 99 124 206 819

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ion Plan ctions - 1 ctions - 2 Village Green Drive - 1 Ch 351.339 - Ch 456.650 Village Green Drive - 2 Ch 461.650 - Ch 499.150 Karoo Lane & Paperbark Street Treefern Street - 1 Ch 25.387 - Ch 87.750 Treefern Street - 2 Ch 94.150 - Ch 114.250 - Timberland Street udinal Sections - 1 udinal Sections - 2 udinal Sections - 3 & Pit Schedule

out Plan

### Standard Construction Notes

### GENERAL 1.

1.1 **Drawings** - The drawings are to be read in conjunction with the contract specification and the responsible Authorities standard drawings and current specifications for Roadworks and Drainage. Any observed discrepancy to be referred to the Superintendent prior to start of work.

1.2 **Responsible Authority Documentation Availability** - A set of the respective responsible Authority standard construction documentation including drawings and specification/s are to be provided by the Contractor and made available on-site for the duration of the construction period.

1.3 **Conformity with Drawings** - All works are to be finished in conformity with the lines, grades, thicknesses and cross sections shown in the drawings.

1.4 **Materials and Workmanship** - Materials and workmanship to comply with responsible Authority specifications and relevant SAA Codes.

1.5 **Tolerances** - Works are to be constructed in compliance with tolerances specified by the relevant responsible Authorities.

1.6 **Minimum Standards** - The standards of work and materials stated in the drawings and specification are the minimum acceptable irrespective of relevant responsible Authority minimum standards.

1.7 Sewer/Water Supply - Construction notes specific to sewer and water supply asset construction are incorporated in the drawings approved by the Water Company as attached hereto.

### **EXISTING CONDITIONS** 2.

2.1 **Discrepancy with Drawings** - Any discrepancy observed/identified between the drawings and existing conditions and site features are to be referred to the Superintendent prior to start of any related work.

2.2 **Municipal Assets & Infrastructure** - The condition of existing Council assets potentially affected by the works is to be assessed by a joint site inspection with Council Officers prior to the start of works. Asset conditions are to be recorded and witnessed by Council and the Contractor. The Contractor is to arrange and record site inspections and is liable for all rectification/reinstatement costs for damage to existing assets.

2.3 **Utility Services** - The locations of existing utility services, as shown in the drawings, are not guaranteed. Exact service locations are to be proven prior to start of works. Service location works are to comply with the requirements of the relevant responsible Authority. The Contractor is liable for rectification/reinstatement costs for damage to existing utility services.

### NOTIFICATIONS 3.

**Council** - Minimum notification periods are: 3.1

- two (2) days written notice of intention to start works
- two (2) days notice to inspect condition of existing Council assets (b)
- twenty four (24) hours notice for weekend work (d)
  - twenty four (24) hours notice for:
  - inspection of drainage works - inspection of sub-soil drains
  - proof roll of prepared sub-grade or constructed pavement
  - inspection of prepared base for concrete works
  - other works as stated in the drawings or specified

Or as otherwise agreed with Council Officers.

3.2 **Property Owners/Tenants** - Seven (7) days written notice to property owners/tenants affected by the works.

### OCCUPATION OF PUBLIC ROADS

All roadworks signage to comply with VicRoads Worksite Traffic Management Code incorporating AS 1742.3.

4.1 **Roads under VicRoads jurisdiction** - The Contractor is to arrange VicRoads consent via "Application for Consent - Works within Road Reserves" (refer VicRoads web site)

4.2 **Roads under Council control** - The Contractor is to arrange and acquire requisite Road Closure Permits via Council's Traffic Officer.

### 5. SET OUT

5.1 Survey Stations and Reference Marks - The locations of reference marks are to be verified prior to start of works.

5.2 **Road Chainages** - Road chainages as shown in the draw centreline, unless otherwise stated.

5.3 Kerb & Channel - Kerb and channel radii and levels relate unless otherwise stated.

5.4 **Drainage Pits** - The locations and orientation of drainage set out from co ordinates and/or offsets as stated.

5.5 **Pipe Drains** - Drainage lines are to be accurately set out f offsets as stated. Further to Standard Note 5.4 drainage lines at p set out to ensure that the outlet pipe is aligned directly opposite th deflection angles are 45° or less) or as otherwise stated in the dra

### TOPSOIL

8.

Stripping Limits - Clearing and stripping of topsoil to be r 6.1 excavated/filled as stated in the drawings or limits as otherwise dir Superintendent.

6.2 **Surplus Material** - Surplus topsoil must be re-used on-site in the drawings or directed by the Superintendent.

### 7. EXISTING VEGETATION

All existing trees and significant vegetation within and external to retained, preserved and protected unless otherwise stated in the the Superintendent.

### **EXCAVATION/TRENCHING**

8.1 Trenching - Trenching operations exceeding 1.5 metres de the provisions of the Mines (Trenches) Regulations 1982.

8.2 Work close to Trees and Vegetation - Excavation work v is not to be performed unless otherwise stated in the drawings or Superintendent.

8.3 **Unstable Sub-Grade** - Unstable sub-grade/"soft spots" to proof-rolled base and backfilled with material approved by Counci

### SOIL EROSION 9.

The Contractor must install necessary protection works to effectiv erosion within the worksite. Works to include, but are not limited to

**Silt Fences** - downstream of all exposed areas. 9.1

9.2 Silt Barriers - upstream of all pits

DRAINAGE WORK 10.

10.1 **Existing Drains** - The location of existing drainage assets start of works.

10.2 **Pipe Class** - Pipes to be, unless otherwise stated in the dra

Roads & Reserves - Class 2 Rubber Ring Jointed RCP (a) (b) Easements - Rubber Ring Jointed RCP/FRP or Sewer Cla UPVC

10.3 **Pit Covers** - Pit covers are to be placed to match actual fin level and cross fall - of adjacent structures/surfaces. Finished surf drawings are indicative, for depth range purposes, and are not to setting final pit cover levels

10.4 Pit Construction - Precast standard pits are to be installed pits are only to be constructed where approved by the Superinten precast concrete pits are to be infilled with concrete flush to the inl unless otherwise approved by the superintendent.

### 10.5 Sub-Soil Drains

(a) Entry to pits to be trimmed flush with inner wall and effectiv through the full pit wall thickness. Details of granular filter material including source to be sub (b)

Superintendent prior to start of sub-soil drainage works.

		<ul> <li>DRAWING NOTES</li> <li>1. Do not scale drawings - use only dimensions stated.</li> <li>2. Dimensions - Dimensions are in metres [m] unless otherwise stated.</li> <li>3. Australian Height Datum - Reduced levels are to</li> </ul>	Designed C. Barker Drawn C. Barker Checked		© SM Urban Pty Ltd ABN 99 124 206 819 These designs and drawings are the copyright of SM Urban Pty Ltd. The drawing shall not be reproduced or copied, in whole or part, without the written	<b>V</b> UI
B COUNCIL AMENDMENTS	29.07.11 CB/CB	Australian Height (AHD) unless otherwise stated.	C. Birkett Authorised J. Golden	Scale @ A1 As Shown	permission of SM Urban Pty Ltd. The contents of this drawing are electronically generated, are	<b>Smec Urban</b> Level 1, 47 Pakington Street, Ge <b>p</b> +61 3 5228 3100   <b>f</b> +61 3 522
A ISSUED TO COUNCIL FOR APPROVAL	30.06.11 CB/CB DATE DES/DFT	JG Level 1, 6 Riverside Quay Southbank, Victoria 3006	Date June 2011		confidential and may only be used for the purpose for which they are intended.	Adelaide +61 8 8223 6455 Brisbane +61 7 3831 8988 Canberra +61 2 6126 1900

f survey stations and	<b>11.</b> 11.1	BACKFILL MATERIAL Trenches under all edgings/kerb sections & Nature Strips - 20mm Class 3 Fine Crushed Rock or other material as approved by Council.
ings are to road	11.2	<b>Trenches under road pavement - S</b> tormwater pipes are to be backfilled with two percent (2%) cement stabilised sand to extend from the bottom of the pipe to the
e to edge of channel,		springline (mid point) of the pipe. Class 3 Fine Crushed Rock is then to be used as the backfill material from the springline up to the road pavement base.
pits are to be accurately	11.3 mater	<b>Allotments/Reserves/</b> - Selected best quality excavated in-situ material or other rial as approved by Council.
rom coordinates and/or bits are to be accurately ne inlet pipe (where awings or directed.	of AS stand	COMPACTION STANDARDS baction standards are to be checked and proven in accordance with the requirements 1289. Where unspecified by the responsible Authority, the following minimum lards will apply: Structural Fill
	12.1	
estricted to areas to be rected by the	(a) (b) (c) stand	Fill base - top 150mm 95% standard compaction Fill zone - 95% standard compaction Under road pavement - zone less than 450mm under road pavement surface 98% lard compaction
e unless otherwise stated	12.2	Road Pavement
the worksite are to be drawings or directed by	(a) (b)	Road sub-grade - top 150mm 98% standard compaction Pavement materials - 98% modified compaction
	12.3	Trench Backfill
epth are to comply with	(a) (b) (c)	Granular under all pavement & edgings/kerb sections - 98% modified compaction Granular behind kerbing - 95% modified compaction Earth around structures - 95% standard compaction
within the drip line of trees approved by the	<b>13.</b> 13.1	CONCRETE WORK Minimum Strength - Concrete for drainage pits to have a minimum compressive strength of 32 MPa at
be excavated to a sound I.	28 da MPa	ays. - Concrete for all other applications to have a minimum compressive strength of 25 at 28 days
vely manage and limit soil o:		<b>Bar Chairs</b> - All reinforcement in footpaths, vehicle crossings and roads to be orted by appropriately sized bar chairs.
	13.3	Slump - Concrete to have 75mm maximum slump.
	13.4 ceme	<b>Kerb Cement Content</b> - Concrete for kerb extrusion machines to have a minimum ent content of 280 kg/m3.
to be verified prior to	13.5 prior	<b>Services Distribution Mains &amp; Conduits</b> - Mains and conduits are to be installed to kerb section construction works.
awings:	reinfo 100m	<b>Footpaths</b> - All footpaths are to be a minimum of 125mm thick with F62 preement, bedded on min of 75mm compacted Class 3 FCR. Bedding to extend im beyond the edges of the footpath. Contraction joints to be constructed at 12.5m rals. Class 4 FCR is to be used where filling is required under footpath Class 3 FCR
ss Solvent Cement		ing material.
nished surface profiles - face levels stated in the be used as the basis for	"Gatio	<b>Continuous Kerb</b> - To allow for a continuous concrete kerb and channel pour the c" HD concrete surround is to be in place prior to the pour commencing. If the pit unds are not in place then the initial kerb and channel pour is to stop one metre either of pit.
d. Cast in-situ standard dent. All sumps in let level of the outlet pipe	<b>14.</b> 14.1 stated	<b>ROAD PAVEMENT WORK</b> <b>Pavement Composition</b> - The minimum standard of pavement composition is d in the drawings for the respective road sections.
		<b>Road surfacing</b> - Road surfacing must not be performed until all other works have completed.
vely mortared in place	<b>15.</b> All ic	<b>IDENTIFICATION MARKING</b> Ientification marking figures are to be a minimum of 50mm high.
omitted to the	15.1 teleco	<b>Conduits</b> - Letter "W", "G" "E" or "T" for water, gas, electricity or ommunications conduit to be stamped into face of kerb sections at frontage of lot
	serve	eu.

15.2 **House Drain Connections** - Letter "H" to be stamped into face of kerb sections opposite street drain connection point.

15.3 Lot Nos. - Lot Nos. to be stenciled in white paint on face of kerb sections at lot frontages.

### 16. TESTING

16.1 **Specified Testing** - Testing will be conducted in compliance with specified requirements. The Contractor is liable for all costs.

16.2 **Proof-Rolling** - Pneumatic tyred plant minimum weight 20 tonne with minimum ground contact pressure 450 kPa per tyre.

### 17. EXPOSED SURFACES RESTORATION

17.1 **Topsoiling** - All exposed residual surface areas at completion of civil works to be topsoiled with 100mm depth of best available material.

17.2 Allotments/Reserves - Allotments and reserves are to be evenly graded at a minimum gradient of 1 in 100 to their nominated drainage connection points.

17.3 **Nature Strips** - Nature strip surfaces are to be trimmed to grade between adjacent surfaces. Top-soiling and compaction operations are to ensure there is no later settlement/subsidence.

17.4 **Top-Dressing** - Undisturbed grassed areas are to be top-dressed and evenly graded as directed by the Superintendent.

17.5 **Hydroseeding** - At completion of the above works all prepared exposed surfaces are to be well watered and hydroseeded.

17.6 Batter Slopes - Batter slopes shall be a maximum of 1 in 6.

### **18. FINAL WORKS PRESENTATION**

At Practical Completion the following minimum standards of presentation will apply: 18.1 **Roads/Paved Areas** - All roads and paved areas are to be swept/washed down to produce clean surfaces free of all deleterious materials.

18.2 **Pipe Systems** - All pipe systems are to be flushed and cleared of all accumulated debris and deleterious materials.

18.3 **Site** - The site is to be prepared to a state acceptable for presentation to the public for sale purposes and is to be in a condition satisfactory to the Superintendent with completion of, at least, the following activities:

(a) all incidental and minor works

site clean up operations

(b)

(c) site cleared of all facilities, temporary structures, plant, litter, surplus materials, etc. that are to be removed off-site.

18.4 **Reserve Frontages** - Round topped treated pipe bollards (0.6m high) are to be placed across reserve frontages at 1.5m centres. A demountable section for vehicle access consisting of an appropriate length of 50mm diameter (2.3mm wall thickness) galvanised water pipe, short section of chain (3 links) welded to each end. Two galvanised steel bollards - one each side of the entry, with one end to have a D20 padlock, which locks in to a link, which has been welded onto the bollard. Unless otherwise stated on plans.

18.5 **Street Signs** - Street signs are to be located as indicated on the plans and installed in accordance with Vicroads Traffic Engineering Manual Volume 2. Mounting height is to be to the underside of the sign and is to be a minimum of 2.1m and maximum of 3.0m

18.6 **No Through Road** - No through road signs are to be installed below the street sign where applicable.

### **19. MAINTENANCE WORKS**

The Contractor must responsively repair/remediate defective works as directed during the maintenance period.

19.1 **Council Assets** - for Maintenance Period of 3 months

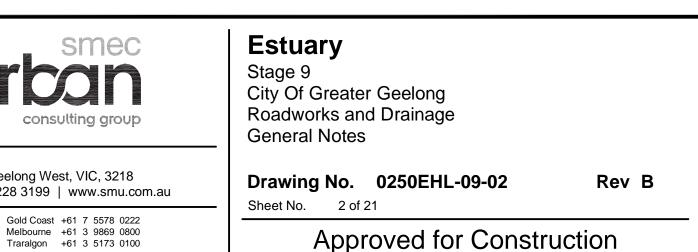
19.2 Water Company Assets - for Defects Liability Period of 12 months and Maintenance Period of 2 years

19.3 **Inspection & General Maintenance Activities** - the Contractor must undertake regular site inspections of all completed works. Special attention must be given to the adequacy of the following soil protection works:

Silt fences Silt barriers Areas hydroseeded

(a) (b)

(C)

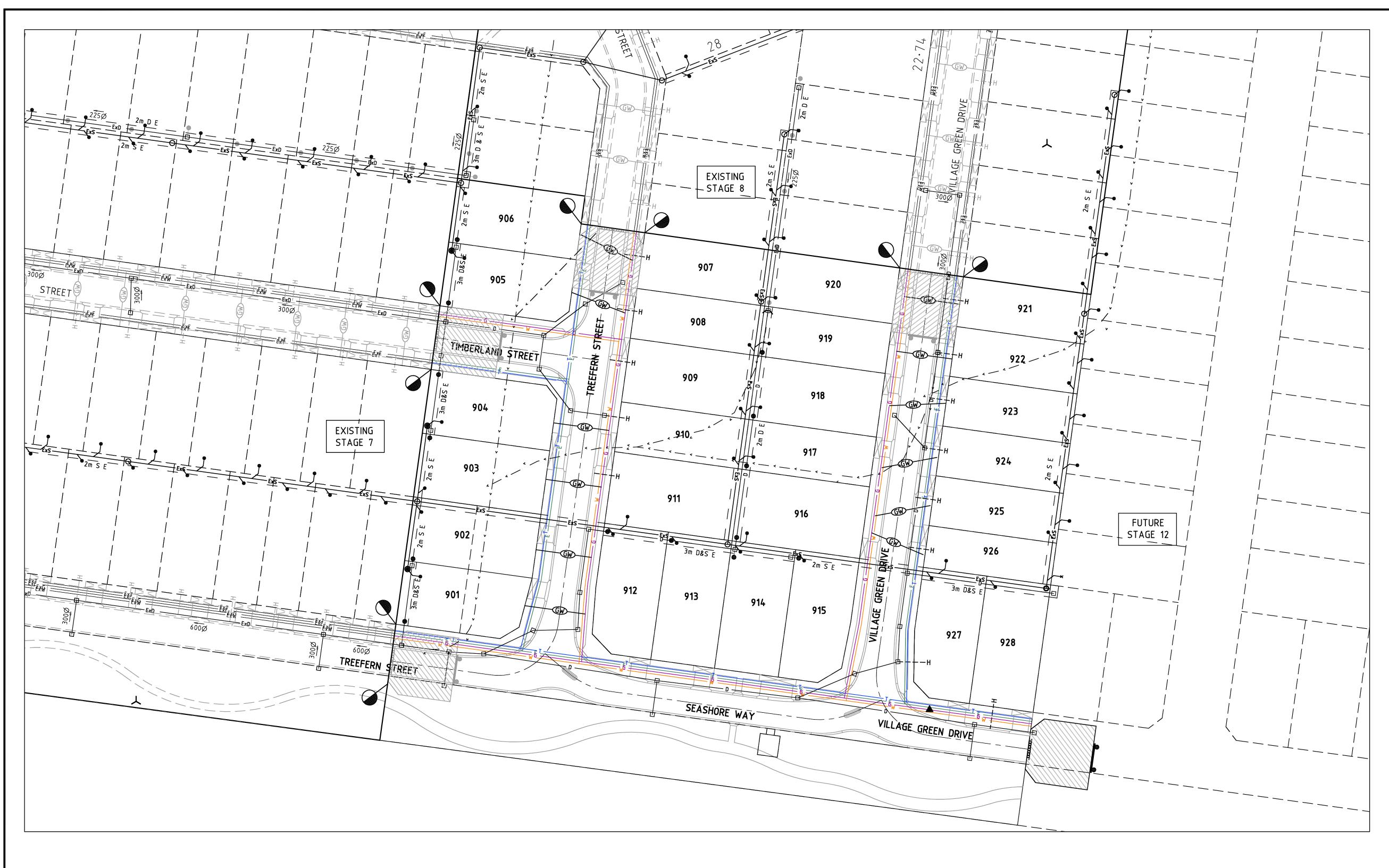




SERVICES OFFSET SCHEDOLE								
ROAD NAME	G	AS	WA	WATER		RICITY	TELSTRA	
ROAD NAME	SIDE	OFFSET (m)	SIDE	OFFSET (m)	SIDE	OFFSET (m)	SIDE	OFFSET (m)
TREEFERN STREET E-W	NORTH	2.90	NORTH	3.50	NORTH	2.30	NORTH	1.70
VILLAGE GREEN DRIVE E-W	NORTH	2.90	NORTH	3.50	NORTH	2.30	NORTH	1.70
TREEFERN STREET	EAST	2.10	EAST	2.70	EAST	2.30	EAST	1.70
VILLAGE GREEN DRIVE	WEST	2.10	WEST	2.70	EAST	2.30	EAST	1.70
TIMBERLAND STREET	NORTH	2.10	NORTH	2.70	SOUTH	2.30	SOUTH	1.70
SEASHORE WAY	NORTH	2.90	NORTH	3.50	NORTH	2.30	NORTH	1.70

			ROAD LAY	DUT TABLE				
	RESERVE		ROAD WIDTH (m	1)	KERB	TYPE	VERGE WIDTH (m)	
ROAD NAME	WIDTH (m)	LIP to LIP	INV to INV	BACK to BACK	NTH/WEST	STH/EAST	NTH/WEST	STH/EAST
TREEFERN STREET	13.00	6.60	7.20	7.50	B2	B2	4.00	-
SEASHORE WAY	13.00	6.60	7.20	7.50	B2	B2	4.00	-
VILLAGE GREEN DRIVE E-W	13.00	6.60	7.20	7.50	B2	B2	4.0	-
TREEFERN STREET	16.00	6.60	7.20	7.50	B2	B2	4.25	4.25
VILLAGE GREEN DRIVE N-S	16.00	6.60	7.20	7.50	B2	B2	4.25	4.25
TIMBERLAND STREET	16.00	6.60	7.20	7.50	B2	B2	4.25	4.25

RE	VISION	DATE	DES/DFT	APP'D	3000
А	ISSUED TO COUNCIL FOR APPROVAL	30.06.11	CB/CB	JG	Level South
В	COUNCIL AMENDMENTS	29.07.11	CB/CB	JG	Leopo
C	ROAD NAMES AMENDED	16.11.11	СВ∕АН	JG	Princi
D	VEHICLE CROSSING FOR LOT 916 AMENDED	07.02.11	СВ∕СВ	JG	
E	EXTRA LEVELS ADDED	29.02.12	CB/CB	JG	E
					0



SERVICES OFFSET SCHEDULE								
	G	AS	WA	TER	ELECT	RICITY	TELSTRA	
ROAD NAME	SIDE	OFFSET (m)	SIDE	OFFSET (m)	SIDE	OFFSET (m)	SIDE	OFFSET (m)
TREEFERN STREET E-W	NORTH	2.90	NORTH	3.50	NORTH	2.30	NORTH	1.70
VILLAGE GREEN DRIVE E-W	NORTH	2.90	NORTH	3.50	NORTH	2.30	NORTH	1.70
TREEFERN STREET	EAST	2.10	EAST	2.70	EAST	2.30	EAST	1.70
VILLAGE GREEN DRIVE	WEST	2.10	WEST	2.70	EAST	2.30	EAST	1.70
TIMBERLAND STREET	NORTH	2.10	NORTH	2.70	SOUTH	2.30	SOUTH	1.70
SEASHORE WAY	NORTH	2.90	NORTH	3.50	NORTH	2.30	NORTH	1.70

					estuary
С	ROAD NAMES AMENDED	16.11.11	СВ/АН	JG	Principal
В	COUNCIL AMENDMENTS	29.07.11	CB/CB	JG	Leopold Property Development Pty Ltd
А	ISSUED TO COUNCIL FOR APPROVAL	30.06.11	CB/CB	JG	Level 1, 6 Riverside Quay Southbank, Victoria 3006
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LEGEND – FUNCTIONAL LAYOUT PLAN
GAS
D-D-STORMWATER DRAIN, PIT & PROPERTY INLET
SWALE DRAIN
● SWER & MAINTENANCE STRUCTURES
H HOUSE DRAIN
EXISTING ELECTRICITY (UNDERGROUND)
-0/H = -0 EXISTING ELECTRICITY (OVERHEAD)
EXISTING GAS
Ex G EXISTING GAS $$ EXISTING TELSTRA
O-Ex S- EXISTING SEWER
H EXISTING HOUSE DRAIN
> EXISTING SWALE DRAIN
— — ZERO LOT LINES
PAVEMENT TREATMENT
□ DIRECTION OF FALL
OVERLAND FLOW
lpha Allotment to be graded evenly in
DIRECTION OF FALL TO LEVELS INDICATED
CONCRETE EDGE STRIP WITH SUBSOIL DRAIN,
"NO ROAD" SIGN & BARRIER
⊖ → LIMIT OF WORKS
EXISTING TREE TO BE REMOVED

### WARNING

BEWARE OF UNDERGROUND SERVICES The locations of underground services are approximate only and their exact position should be proven on site. No guarantee is given that all existing services are shown. Locate all underground services before commencement of works DIAL 1100 BEFORE YOU DIG

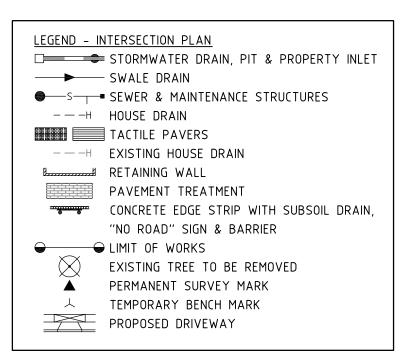
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**Estuary** Stage 9 City Of Greater Geelong Roadworks and Drainage Services Layout Plan

Drawing No. 0250EHL-09-04 Sheet No. 4 of 21

Rev C



### WARNING

BEWARE OF UNDERGROUND SERVICES The locations of underground services are approximate only and their exact position should be proven on site. No guarantee is given that all existing services are shown. Locate all underground services before commencement of works DIAL 1100 BEFORE YOU DIG

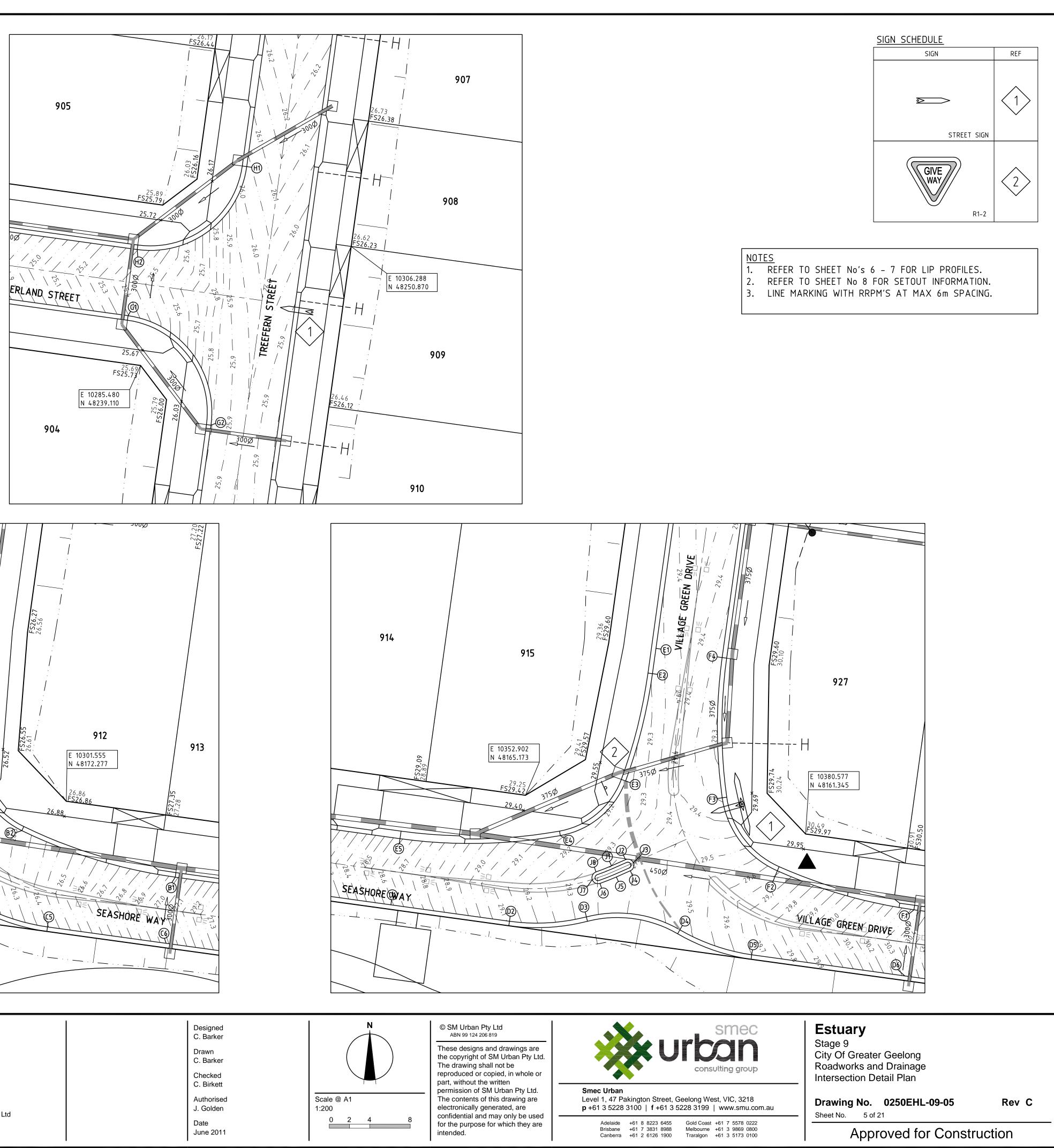
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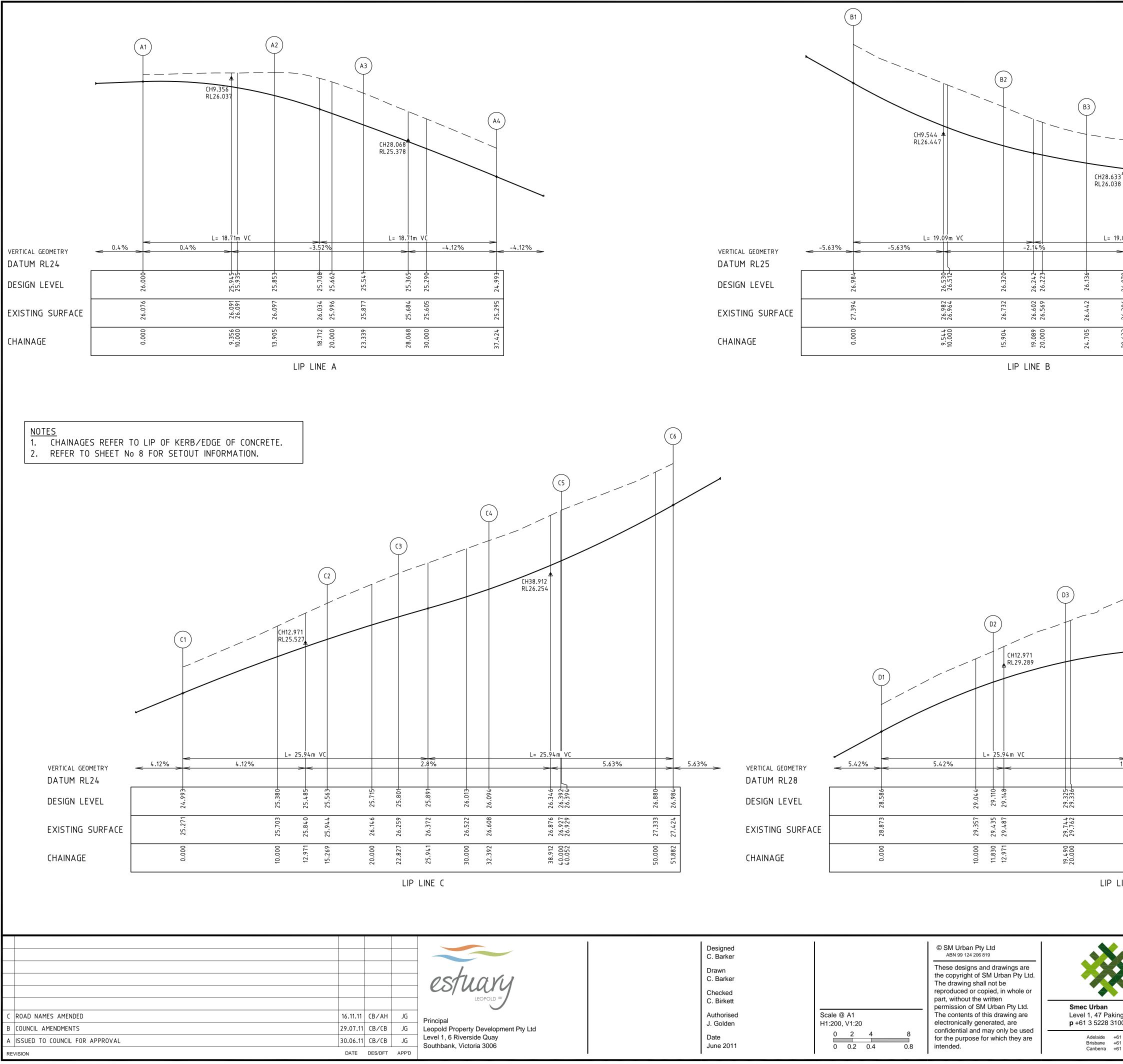
902 STREE EFERN 901 E 10273.880 N 48176.106 -\_\_450Ø <>----TREEFERN STREET

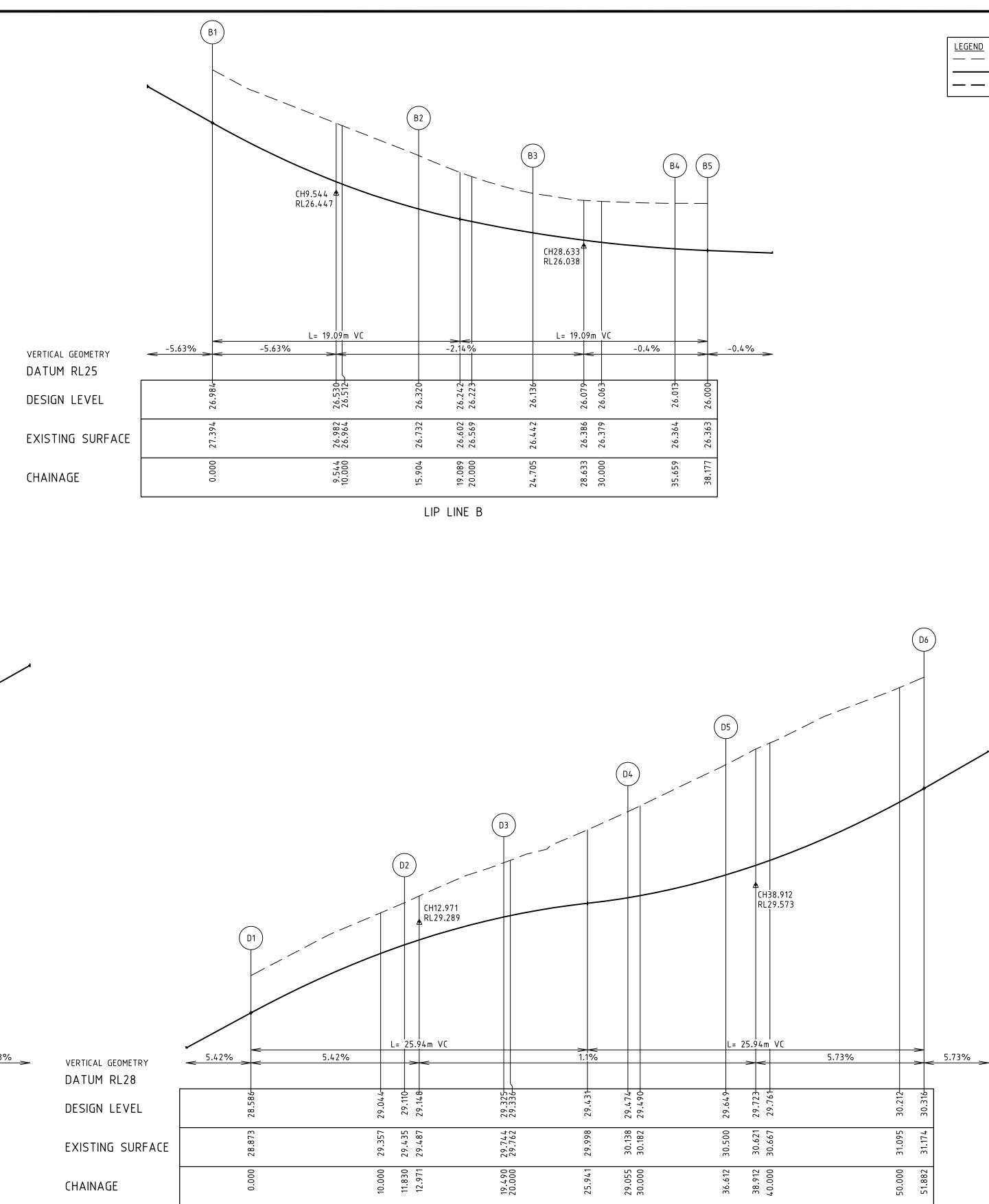
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-	ROAD NAMES AMENDED	16.11.11	СВ∕АН	JG	Principal
3	COUNCIL AMENDMENTS	29.07.11	CB/CB	JG	Leopold Property De
١	ISSUED TO COUNCIL FOR APPROVAL	30.06.11	CB/CB	JG	Level 1, 6 Riverside Southbank, Victoria
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### Drawing No. 0250EHL-09-06 Sheet No. 6 of 21

Stage 9 City Of Greater Geelong Roadworks and Drainage Lip Profiles - 1

Estuary

Rev C

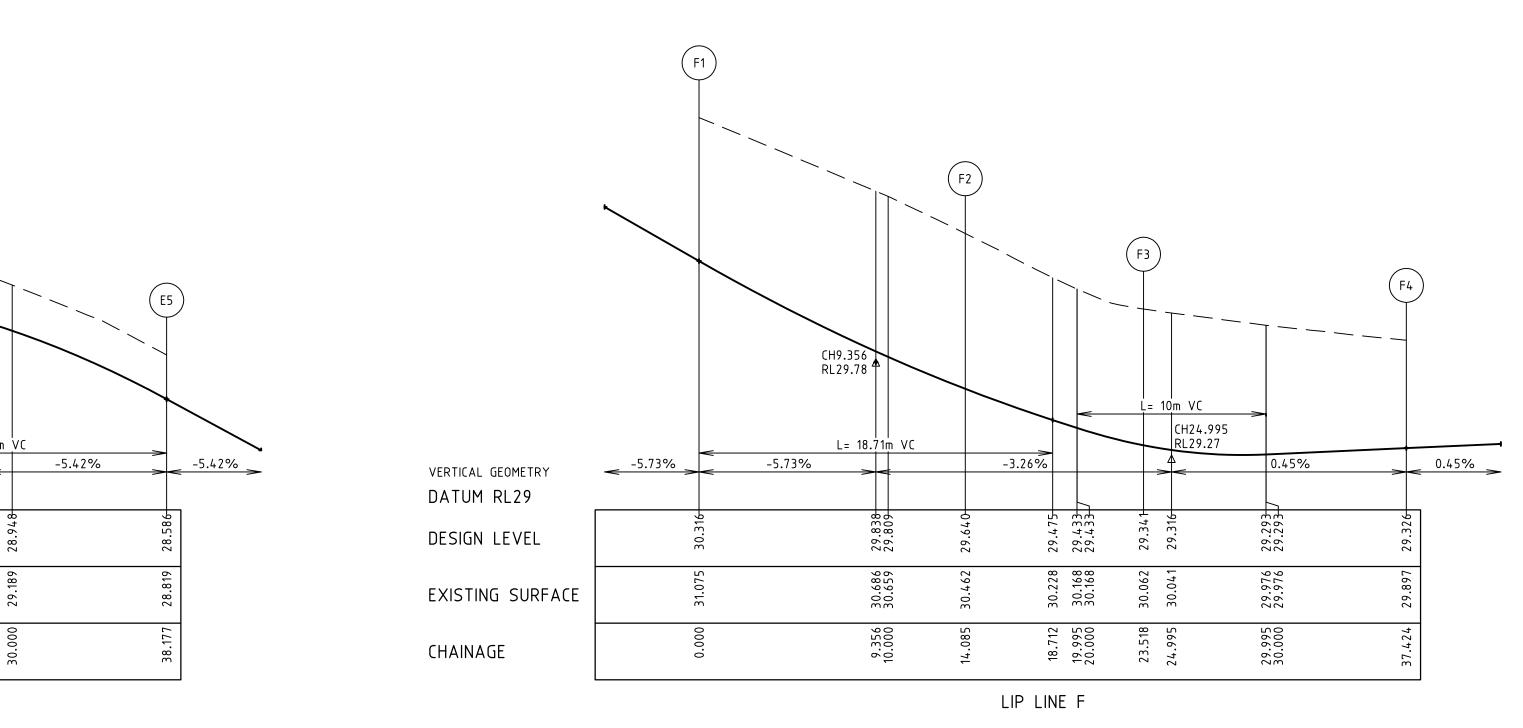
				L= 7.54m	ι VΓ	
	VERTICAL GEOMETRY	< <sup>4.27%</sup> ><	4.44%	><	-0.04%	
	DESIGN LEVEL	25.346-	25.681	25.772- 25.806-		25.84.7-
	EXISTING SURFACE	25.695	25.915	25.947 25.964		25.971
	CHAINAGE	0.00	7.540	10.000 11.310		15.080
			LIP LINE C			
NOTES						
	TO LIP OF KERB/EDGE OF					
1. CHAINAGES REFER	TO LIP OF KERB/EDGE OF 10 8 FOR SETOUT INFORM/					
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1. CHAINAGES REFER						
1. CHAINAGES REFER						
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1. CHAINAGES REFER         2. REFER TO SHEET N						The second
1. CHAINAGES REFER 2. REFER TO SHEET N				CB/AH		Principal
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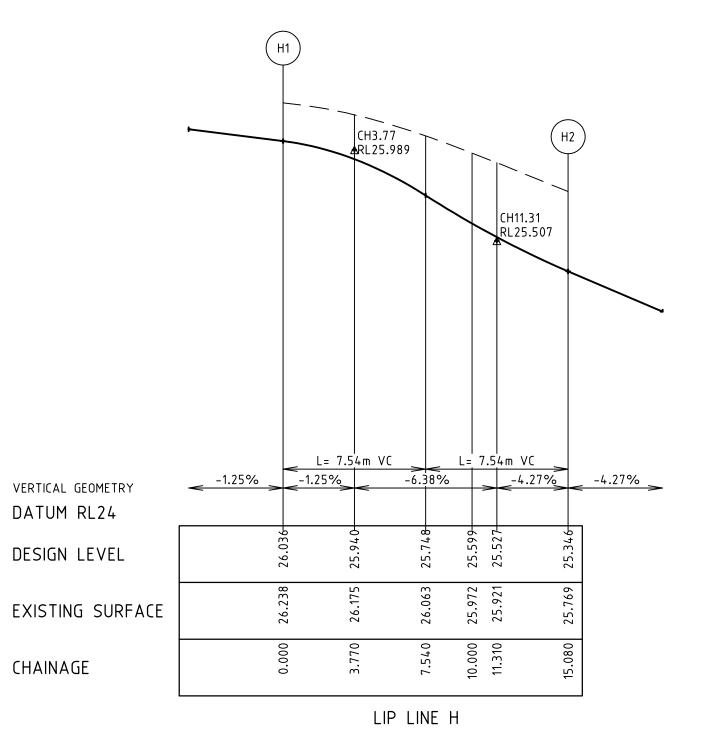
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(E1) (E2)(E3) ( E4 ) CH28.633 RL29.103 L= 19.09m VC -0.45% -0.78% VERTICAL GEOMETRY DATUM RL28 28.992-28.948-29.177-29.169-14 DESIGN LEVEL 29. 29.563 29.539 29.242 29.189 29.475 EXISTING SURFACE 19.089 20.000 28.633 30.000 22.273 2.518 00 13.47 CHAINAGE LIP LINE E

(G2

CH11.31 RL25.848





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C. Birkett Authorised J. Golden	Scale @ A1 H1:200, V1:20	<ul> <li>part, without the written</li> <li>permission of SM Urban Pty Ltd.</li> <li>The contents of this drawing are electronically generated, are</li> </ul>	<b>Smec Urban</b> Level 1, 47 Pakington Street, Geelong <b>p</b> +61 3 5228 3100   <b>f</b> +61 3 5228 3
Date June 2011	0     2     4     8       0     0.2     0.4     0.8	confidential and may only be used for the purpose for which they are intended.	Adelaide +61 8 8223 6455 Gold Brisbane +61 7 3831 8988 Melbo Canberra +61 2 6126 1900 Trara

.EGEND	
	- EXISTING SURFACE
	- DESIGN LINE
	FUTURE DESIGN LINE



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Gold Coast +61 7 5578 0222 Melbourne +61 3 9869 0800 Traralgon +61 3 5173 0100

### Estuary

Stage 9 City Of Greater Geelong Roadworks and Drainage Lip Profiles - 2

Drawing No. 0250EHL-09-07 Sheet No. 7 of 21

Rev C

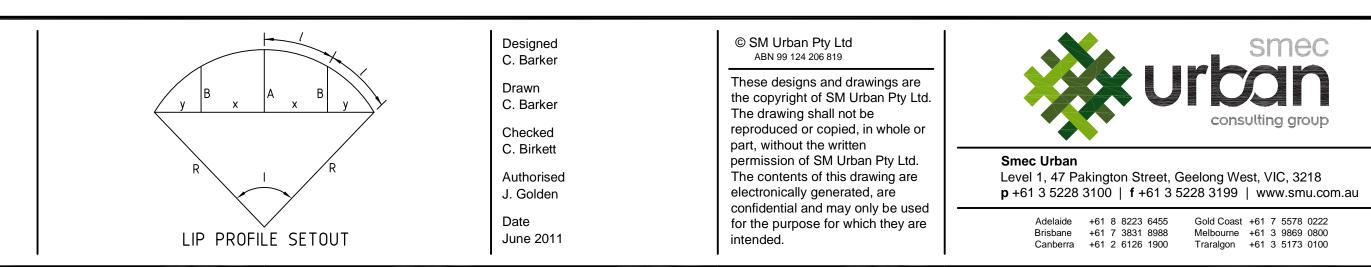
C ROAD NAMES AMENDED B COUNCIL AMENDMENTS	APPROVAL			29.07.1	I CB/AH JG 1 CB/CB JG 1 CB/CB JG	Principal	Development Pty Ltd	C. Barker C. Barker C. Barker C. Barker C. Barker Checked C. Birkett R R C. Birkett R C. Barker Checked C. Birkett Authorised J. Golden Date C. Barker C. Birkett Date C. Barker C. Barker
J 1 J 2	10361.400 10362.779	4 8 1 5 8 . 1 9 8 4 8 1 5 8 . 8 0 8						Designed C. Barker Drawn C. Barker Drawn C. Barker Drawn C. Barker
I7 – I8 <u>ALIGNMENT J</u> POINT NO J1	90.000 EASTING 10361 400	NORTHING	RL	0.130	0.230	0.195	0.236	
CURVE NO 11 - 12 12 - 13 13 - 14 14 - 15 16 - 17	I 4.854 90.000 90.000 4.854 90.000	19.400       1         0.600       0         0.600       0         20.600       1         0.600       0	RC     A       . 6 4 3     0 . 0 1 7       . 9 4 2     0 . 1 7 6       . 9 4 2     0 . 1 7 6       . 7 4 5     0 . 0 1 8       . 9 4 2     0 . 1 7 6	B 0.013 0.130 0.130 0.014 0.130	X 0.411 0.230 0.230 0.436 0.230	Y 0.411 0.195 0.195 0.436 0.195	L 0.411 0.236 0.236 0.436 0.436 0.236	428.432       10246.716       48170.526       97°52'36"       IP         453.432       10271.480       48167.100       97°52'36"       IP         IP       1       200RDINATE =       10246.7157       48170.5257
1   2   3   4   5   6   7   8	10291.483         10292.791         10292.942         10292.106         10290.717         10289.556         10289.477         10290.321	48167.871         48166.877         48166.042         48166.947         48166.947         48166.947         48166.87.93         48168.753						CHAINAGE = 80.1409 INTERSECT ANGLE = 0°00'00" IP 8 COORDINATE = 10368.7821 48160.8104 CHAINAGE = 87.9487 <u>TREEFERN STREET DESIGN LINE</u> CHAINAGE EASTING NORTHING BEARING
CURVE NO H1 – H2 <u>ALIGNMENT I</u> POINT NO	I 90.000 EASTING		RC A 0.080 2.812 RL	B 2.0 8 1	X 3.674	Y 3.114	L MID POINT RL 3.770 25.748	CHAINAGE = 80.1409 BEARING = 66°06′60″ IP 7 COORDINATE = 10361.6429 48157.6492
<u>ALIGNMENTH</u> POINTNO H1 H2	E A S T I N G 1 0 2 9 5 . 9 7 2 1 0 2 8 5 . 1 4 7	N O R T H I N G 4 8 2 5 8 . 7 5 8 4 8 2 5 0 . 5 6 4						END TANGENT COORDINATE = 10361.6429 48157.6492 LENGTH = 5.6896 CHALNAGE = 80.1/09
G1 G2 CURVE NO G1 - G2	1 0 2 8 4 . 2 4 2 1 0 2 9 2 . 4 3 6 I 9 0 . 0 0 0	48244.026 48233.201 RADIUS AF	25.346	B 2.0 8 1	X 3.674	Y 3.114	L MID POINT RL 3.770 25.681	START TANGENT         COORDINATE =       10350.8045       48156.1254         LENGTH =       5.6896         CHAINAGE =       69.0545         BEARING =       97°52′36″
EURVE NO F1 - F2 F2 - F3 F3 - F4 <u>ALIGNMENT G</u> POINT NO	I 16.044 58.116 15.839 EASTING	50.300 14 9.300 9	RC A 085 0492 433 1171 905 0480 RL	В 0.369 0.873 0.360	x 3 . 5 1 8 2 . 3 3 3 3 . 4 7 4	Y 3 . 5 0 1 2 . 184 3 . 4 5 7	L MID POINT RL 3.521 29.945 2.358 29.472 3.476 29.295	COORDINATE       =       10356.4405       48155.3456         CENTRE       =       10353.5453       48175.9367         RADIUS       =       -20.0000         LENGTH       =       11.0864         INTERSECT ANGLE       =       31°45′36″
ALIGNMENT F POINT NO F1 F2 F3 F4 CURVE NO	E A S T I N G 1 0 3 9 1 . 2 8 4 1 0 3 7 7 . 7 8 1 1 0 3 7 2 . 3 4 2 1 0 3 7 2 . 3 3 2	NORTHING 48153.857 48157.703 48164.915 48178.777 RADIUS AF	2 9 . 6 4 0 2 9 . 3 4 1 2 9 . 3 2 6	В	X	Y	L MID POINT RL	IP 5 COORDINATE = 10350.8045 48156.1254 CHAINAGE = 69.0545 INTERSECT ANGLE = 0°00'-0" IP 6
CURVE NO E2 - E3 E3 - E4 E4 - E5	l 12.366 59.678 17.955	50.750 10 8.450 8	RC     A       .954     0.295       .801     1.120       .904     0.622	B 0 . 2 2 1 0 . 8 3 5 0 . 4 6 6	X 2 . 7 3 7 2 . 1 7 6 3 . 9 7 2	Y 2 . 7 2 9 2 . 0 2 9 3 . 9 4 8	L MID POINT RL 2.738 29.264 2.200 29.187 3.976 28.940	COORDINATE = 10301.1174 48162.9994 CHAINAGE = 18.8942 INTERSECT ANGLE = 0°00′00″
<u>ALIGNMENT E</u> POINT NO E 1 E 2 E 3 E 4 E 5	E A S T I N G 1 0 3 6 5 . 7 9 4 1 0 3 6 5 . 4 4 9 1 0 3 6 2 . 7 9 3 1 0 3 5 6 . 3 4 4 1 0 3 4 0 . 5 0 7	NORTHING 48179.681 48177.186 48166.582 48161.186 48160.881	2 9 . 3 0 6 2 9 . 2 2 1 2 9 . 1 4 0 2 8 . 5 8 6	_				END TANGENT COORDINATE = 10301.1174 48162.9994 LENGTH = 5.6896 CHAINAGE = 18.8942 BEARING = 97°52′36″ IP 4
CURVE NO D2 - D3 D3 - D4 D4 - D5	l 2 2 . 2 7 8 4 4 . 5 5 8 2 1 . 9 7 7	19.700     7       12.300     9	RC A . 660 0 . 371 . 565 0 . 918 . 556 0 . 361	B 0 . 278 0 . 686 0 . 271	X 1 . 9 1 2 2 . 3 7 6 1 . 8 8 6	Y 1 . 8 9 4 2 . 2 8 7 1 . 8 6 9	L MID POINT RL 1.915 29.230 2.391 29.410 1.889 29.549	COORDINATE =       10291.0998       48167.4086         LENGTH =       5.6896         CHAINAGE =       7.8078         BEARING =       129°38'12"
<u>ALIGNMENT D</u> POINT NO D 1 D 2 D 3 D 4 D 5 D 6	E A S T I N G 10339.603 10351.321 10358.921 10368.159 10375.253 10390.379	N O R T H I N G 4 8 1 5 4 . 3 4 4 4 8 1 5 2 . 7 2 2 4 8 1 5 3 . 1 5 6 4 8 1 5 1 . 8 7 7 4 8 1 4 9 . 4 1 2 4 8 1 4 7 . 3 1 9	2 9 . 1 1 0 2 9 . 3 2 5 2 9 . 4 7 4 2 9 . 6 4 9					IP 3 COORDINATE = 10295.4814 48163.7791 CENTRE = 10303.8582 48182.8107 RADIUS = -20.0000 LENGTH = 11.0864 INTERSECT ANGLE = 31°45′36″ START TANGENT
CURVE NO C2 - C3 C3 - C4 C4 - C5	I 2 1 . 9 8 1 4 4 . 5 5 8 2 2 . 2 7 8	19.700 7 12.300 9	RC A 558 0.361 565 0.918 660 0.371	B 0 . 2 7 1 0 . 6 8 6 0 . 2 7 8	X 1 . 8 8 7 2 . 3 7 6 1 . 9 1 2	Y 1.869 2.287 1.894	L MID POINT RL 1.889 25.685 2.391 25.939 1.915 26.236	IP 2 COORDINATE = 10291.0998 48167.4086 CHAINAGE = 7.8078 INTERSECT ANGLE = 0°00'00''
<u>ALIGNMENT C</u> POINT NO C 1 C 2 C 3 C 4 C 5 C 6	E A S T I N G 1 0 2 6 0 . 6 3 8 1 0 2 7 5 . 7 6 3 1 0 2 8 3 . 2 6 1 1 0 2 9 2 . 5 0 0 1 0 2 9 9 . 6 9 6 1 0 3 1 1 . 4 1 4	N O R T H I N G 4 8 1 6 5 . 2 6 8 4 8 1 6 3 . 1 7 6 4 8 1 6 3 . 6 2 3 4 8 1 6 2 . 3 4 5 4 8 1 5 9 . 8 6 5 4 8 1 5 8 . 2 4 3	2 5 . 5 6 3 2 5 . 8 0 1 2 6 . 0 9 4 2 6 . 3 9 4					75.000       10356.728       48156.191       80°50'39"         80.141       10361.643       48157.649       66°06'60"       CT         80.141       10361.643       48157.649       66°06'60"       IP         87.949       10368.782       48160.810       66°06'60"       IP         IP       1       COORDINATE =       10285.0870       48172.3893         CHAINAGE =       0.0000       0.0000       100000
B4 B5 CURVE NO B1 - B2 B2 - B3 B3 - B4	1 0 2 9 2 . 7 4 1 1 0 2 9 3 . 0 8 6 I 1 7 . 9 5 5 5 9 . 6 7 8 1 2 . 3 6 6	48187.245 48189.740 RADIUS AF 50.750 15 8.450 8	26.013	B 0.466 0.835 0.221	X 3.972 2.176 2.737	Y 3 . 9 4 8 2 . 0 2 9 2 . 7 2 9	L MID POINT RL 3.976 26.594 2.200 26.217 2.738 26.061	SLASHORE WAT DESTON LINE CHAINAGE EASTING NORTHING BEARING       BEARING       IP 2         0.000       10285.087       48172.389       129°38'12"       IP       COORDINATE =       10271.4799       48167.0996         7.808       10291.100       48167.409       129°38'12"       TC       CHAINAGE =       453.4317         18.894       10301.117       48162.999       97°52'36"       CT         69.055       10350.805       48156.125       97°52'36"       IP         69.055       10350.805       48156.125       97°52'36"       TC
ALIGNMENT B POINT NO B1 B2 B3	E A S T I N G 1 0 3 1 2 . 3 1 9 1 0 2 9 7 . 1 6 0 1 0 2 9 2 . 4 1 8	N O R T H I N G 4 8 1 6 4 . 7 8 1 4 8 1 6 9 . 3 7 3 4 8 1 7 6 . 3 1 8	RL 26.984 26.320 26.136					J6       J7       90.000       0.600       0.942       0.176       0.130       0.230       0.195       0.236         J7       J8       90.000       0.600       0.942       0.176       0.130       0.230       0.195       0.236         J8       J1       4.854       19.400       1.643       0.017       0.013       0.411       0.411         CHAINAGE
CURVE NO A1 - A2 A2 - A3 A3 - A4	I 15.839 58.116 16.044	RADIUS AF 50.300 13 9.300 9	RC A . 905 0.480 . 433 1.171 . 085 0.492	B 0 . 3 6 0 0 . 8 7 3 0 . 3 6 9	X 3.474 2.333 3.518	Y 3.457 2.184 3.501	L MID POINT RL 3.476 25.977 2.358 25.711 3.521 25.275	CURVE NO       I       RADIUS       ARC       A       B       X       Y       L       MID P         J2 - J3       90.000       0.600       0.942       0.176       0.130       0.230       0.195       0.236         J3 - J4       90.000       0.600       0.942       0.176       0.130       0.230       0.195       0.236         J5 - J6       4.854       20.600       1.745       0.018       0.014       0.436       0.436
POINT NO A 1 A 2 A 3 A 4	E A S T I N G 1 0 2 8 6 . 5 4 9 1 0 2 8 2 . 7 7 5 1 0 2 7 5 . 5 8 2 1 0 2 6 1 . 5 4 3	N O R T H I N G 4 8 1 9 0 . 6 4 4 4 8 1 7 7 . 3 0 7 4 8 1 7 1 . 8 4 1 4 8 1 7 1 . 8 0 6	2 5 . 8 5 3 2 5 . 5 4 1					J310363.57048158.503J410363.26448157.711J510361.88648157.101J610360.26248156.462J710359.49948156.834J810359.87148157.597

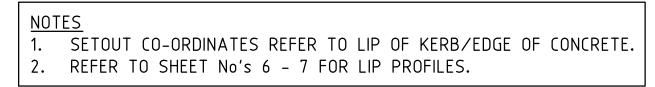
A ISSUED TO COUNCIL FOR APPROVAL REVISION

 
 29.07.11
 CB/CB
 JG
 Leopold Property Development Pty Ltd

 30.06.11
 CB/CB
 JG
 Level 1, 6 Riverside Quay

 Southbank, Victoria 3006
 DATE DES/DFT APP'D





D POINT RL

**Estuary** Stage 9 City Of Greater Geelong Roadworks and Drainage Setout Information Plan

Drawing No. 0250EHL-09-08 Sheet No. 8 of 21

Rev C

					1
					OST
С	ROAD NAMES AMENDED	16.11.11	СВ∕АН	JG	Principal
В	COUNCIL AMENDMENTS	29.07.11	CB/CB	JG	Leopold Prope
А	ISSUED TO COUNCIL FOR APPROVAL	30.06.11	CB/CB	JG	Level 1, 6 Rive Southbank, Vi
RE	VISION	DATE	DES/DFT	APP'D	

uary LEOPOLD ®

FUTURE STAGE PROPOSED STAGE

perty Development Pty Ltd verside Quay /ictoria 3006

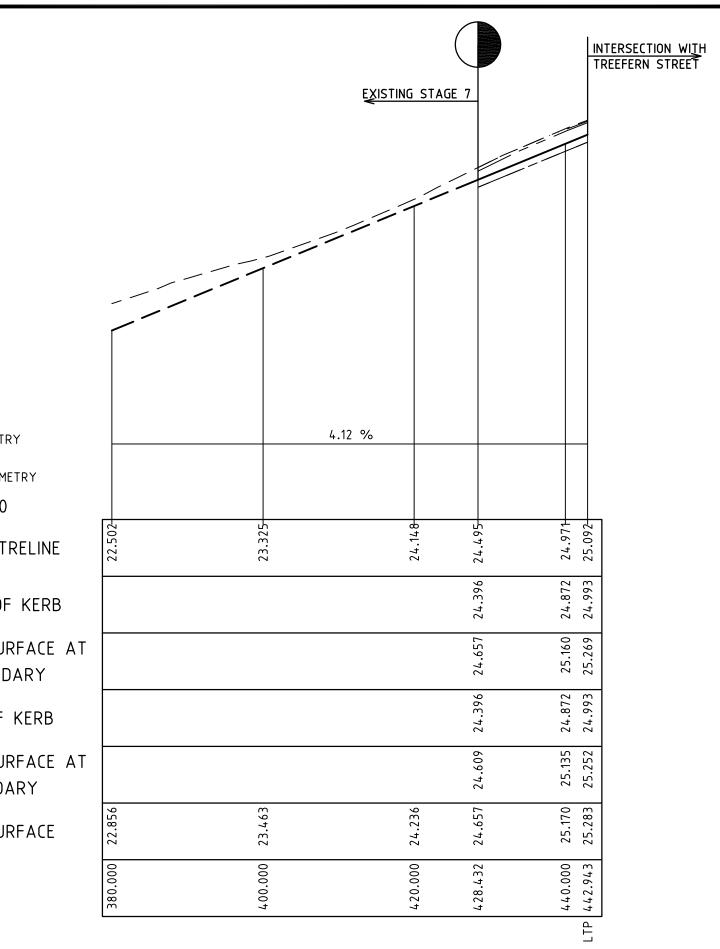
	CH 256.508 ELV. 35.805								CH 346.476 ELV. 31.569			
VERTICAL GEOMETRY	-0.5 %	L= 80m VC	>	-	-4.71 %		<	L=	30m V(		<u> </u>	5.97 %
HORIZONTAL GEOMETRY DATUM RL26												
DESIGN CENTRELINE	35.519- 35.384- 35.290-	, с , с , с , с	L 70. +0	-22.922	7.57. 7.	32.816-	32.275	31.859-	31.522-	31.258	30.762- 30.674-	30.50 <del>1</del> 30.41 <del>5</del> 30.332
RIGHT LIP OF KERB											30.663	30.4.02
EXISTING SURFACE AT RIGHT BOUNDARY												31.024 30.967 30.908
LEFT LIP OF KERB											30.663 30.575	30.402
EXISTING SURFACE AT LEFT BOUNDARY												
EXISTING SURFACE	35.933 35.717 35.593	ער אר ג		34.149	34.018	33.182	32.557	32.174	31.884	31.701	31.365 31.302	31.186 31.131 31.074
CHAINAGE	251.000 256.508 260.000			296.508	000.005	320.000	331.476	340.000	346.476	351.339	360.000 361.476	364.380 365.851 367.339
												RTP

LEGEND
— — — EXISTING SURFACE
DESIGN LINE
RIGHT BUILDING LINE
RIGHT LIP OF KERB
LEFT BUILDING LINE
LEFT LIP OF KERB
L

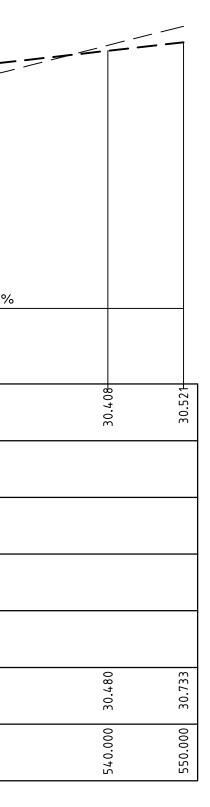
												INTERSE VILLAGE	CTION W GREEN	<u>VITH</u> DRIVE				
					IN <u>TERSECTIC</u> TREEFERN	<u>)n with</u> Street	H T											
			VER	TICAL C	JEOMETRY				5.63	%		L= 20m	VC			VER	FICAL GEOM	1etry
			HOR	IZONTAI	L GEOMETRY											HORI	ZONTAL GE	EOMETRY
			DA	TUM	RL24											DA	TUM RL	20
			DE	SIGN	CENTRELINE		27.08 <del>3-</del>	Ē	27.661- 77 88/-	F 0 0 • • 7	28.630	28.685				DE	SIGN CE	NTREL
			RI	GHT L	.IP OF KERB	}	26.984		27.562 27 785		28.531	28.586				RIC	iht lip	OF K
					G SURFACE BOUNDARY	AT	+ 27.427	t C	27.977		28	5 28.877					ISTING S iht bou	
			LE	FT LI	P OF KERB		26.984		27.562 27.785		28.53	28.586				LE	T LIP (	OF KE
					G SURFACE DUNDARY	AT	27.362		27.866 28.065			28.796					ISTING S T BOUN	
			E×	ISTIN	G SURFACE		27.407		27.959 28.16.6	+ + 0 7	28.793	28.846				EX	ISTING S	SURFA
			CH	AINA	GE		29.746		40.000	t 	57.214	58.203				СН	AINAGE	
		I													$\bigcirc$			
INTERSECTION WITH SEASHORE WAY		<b>→</b>			51	LASU	URE	WAT	LUN	וועט דונ	NAL SE	CTION		SED STAGE 9	EXISTING	i STAGE		
													ج	9	8			
			· — · · .	—		_						· ·	· · ·		<b>—</b> —		===	
СН 401.564	+-+-		<u> </u>				<u>/ · ·</u>		 				<u>++</u>					
RL 29.392							/-					1 147		345	29.948			
CH 384.380 ELV. 29.308												<u>4 481.564</u> V. 29.74 <sup>-</sup>		CH 499.345	•			
ELG												EL V.		5	ELV			
L= 40m VC	->				0.45 %					<		L= 30m		3 %			1 1	3 %
R= 15m HC					0.43 78							_ <b>&gt;</b> <	<u>-                                      </u>	>	<			<u> </u>
29.90 <del>3-</del> 29.76 <del>5-</del> 29.62 <del>9-</del>	29.398	29.425	29.469-	29.497	29.54 <del>4-</del> 29.55 <del>9-</del>	29.578	29.601	29.635-	29.650- 29.657-	29.679	29.71 <del>1</del>	29.760- 29.773-	29.802- 29.816-		29.956		30.182-	
		29.326	29.370	29.398	29.460 29.460	29.479	29.502	29.536	29.551 29.558	29.580	29.613 29.622	29.661 29.674	29.703 29.717	29.818	7.041			
30.544 30.481 30.405 30.405	30.214	30.103	29.951	29.851	29.829 29.827	29.746	29.703	29.694	29.713 29.727	29.770	29.826 29.837	29.896 29.914	29.947 29.958	30.034				
0																		
		29.326	29.370	29.398	29.445 29.460	29.479	29.502	29.536	29.551 29.558	29.580	29.613 29.622	29.661 29.674	29.703 29.717	29.818				
с С	29.392 29.364	29.353	29.245	29.210	29.183 29.206	29.006	29.056	29.093	29.134 29.148	29.157	29.146 29.160	29.200 29.210	29.233 29.243	29.318	000.72			
30.697 30.514 30.300 30.300	29.810 29.810 29.784	29.744	29.614	29.489	29.462 29.486	29.450	29.386	29.366	29.390 29.402	29.439	29.471 29.488	29.554 29.572	29.596 29.607	29.682	29.737		30.028	
	404.380	410.288	420.000	426.150	440.000	444.150	449.150	456.650	460.000	466.564	474.150	480.000	485.150		499.345 500.000		520.000	
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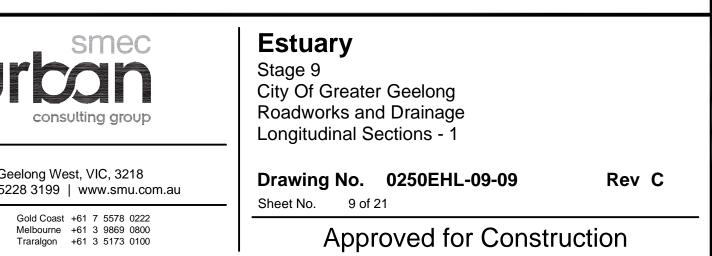
VILLAGE GREEN DRIVE LONGITUDINAL SECTION

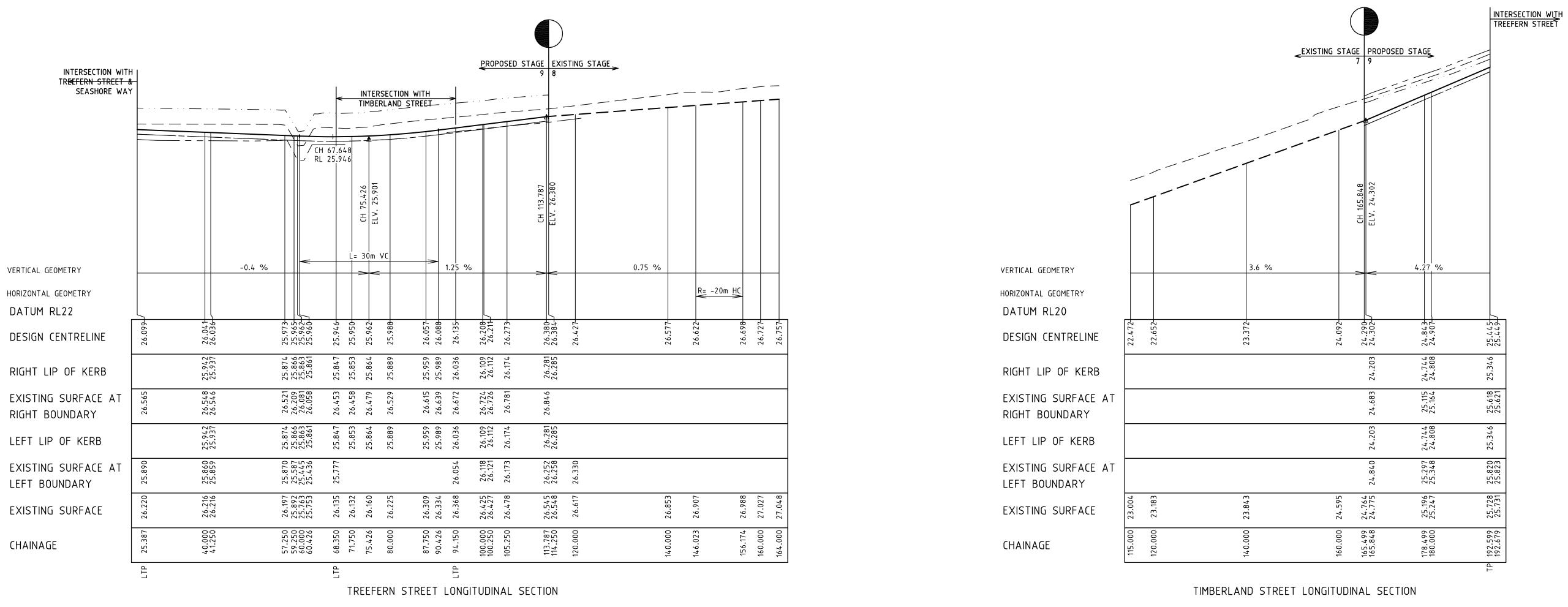
Designed C. Barker		© SM Urban Pty Ltd ABN 99 124 206 819	
Drawn C. Barker Checked		These designs and drawings are the copyright of SM Urban Pty Ltd. The drawing shall not be reproduced or copied, in whole or part, without the written	XX U
C. Birkett Authorised J. Golden	Scale @ A1 H1:500, V1:50	permission of SM Urban Pty Ltd. The contents of this drawing are electronically generated, are	Smec Urban Level 1, 47 Pakington Street, Ge p +61 3 5228 3100   f +61 3 52
Date June 2011	0 5 10 20 0 0.5 1 2	confidential and may only be used for the purpose for which they are intended.	Adelaide +61 8 8223 6455 Brisbane +61 7 3831 8988 Canberra +61 2 6126 1900



TREEFERN STREET LONGITUDINAL SECTION







					estuary LEOPOLD 00
С	ROAD NAMES AMENDED	16.11.11	СВ∕АН	JG	Principal
В	COUNCIL AMENDMENTS	29.07.11	СВ∕СВ	JG	Leopold Property Development Pty Ltd
A	ISSUED TO COUNCIL FOR APPROVAL	30.06.11	СВ∕СВ	JG	Level 1, 6 Riverside Quay Southbank, Victoria 3006
RE	/ISION	DATE	DES/DFT	APP'D	

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C. Birkett Authorised J. Golden	Scale @ A1 H1:500, V1:50	permission of SM Urban Pty Ltd. The contents of this drawing are electronically generated, are	<b>Smec Urban</b> Level 1, 47 Pakington Street, Geelong <b>v</b> <b>p</b> +61 3 5228 3100   <b>f</b> +61 3 5228 319
Date June 2011	0 5 10 20 0 0.5 1 2	confidential and may only be used for the purpose for which they are intended.	Adelaide +61 8 8223 6455 Gold Co Brisbane +61 7 3831 8988 Melbour Canberra +61 2 6126 1900 Traralgo

LEGEND
— — — EXISTING SURFACE
DESIGN LINE
RIGHT LIP OF KERB
LEFT BUILDING LINE
LEFT LIP OF KERB



elong West, VIC, 3218 28 3199 | www.smu.com.au

 Gold Coast
 +61
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 Melbourne
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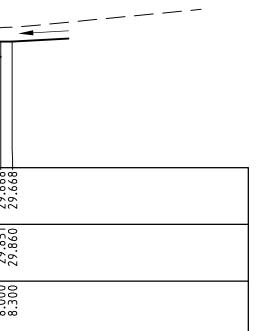
**Estuary** Stage 9 City Of Greater Geelong Roadworks and Drainage Longitudinal Sections - 2

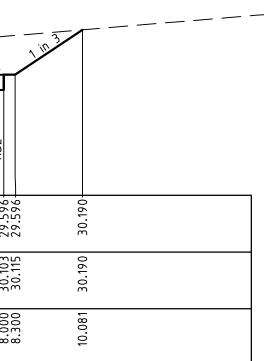
Drawing No. 0250EHL-09-10 Sheet No. 10 of 21

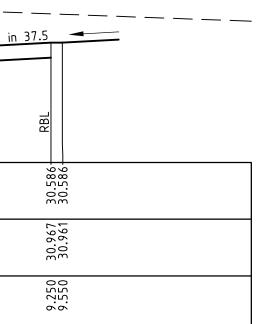
Rev C

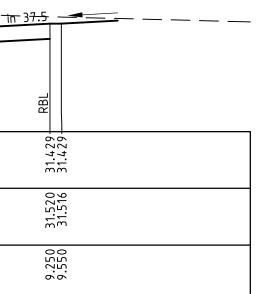
					CONSTRUCTED ADOVE NATORAL SORTACE		
						in 6	1 in 37.5 1 in 22.9 1 in 33.3
	1 in 37.5	<u>1 in 22.9</u> <u>1 in 33.3</u>	<u>- 1-in 33.3</u> — — — — in 22	2.9 T in 37.5			
				RBL	DATUM28.0		
DATUM28.0	.110	398	208	228	DESIGN SURFACE	28.821 29.806- 29.806-	
DESIGN SURFACE	29. 29. 29. 29. 29. 29. 29. 29. 29. 29.		39 29.398- 59 29.508-	63 29.628 51 29.668 60 29.668	EXISTING SURFACE	28.821	29.159
EXISTING SURFACE	29 29 29 29	29 29	0 29.639 0 29.659	00 29.851 00 29.851 00 29.860	OFFSET	-14.205 -8.300 -8.300	-6.500 -3.750 -3.300
OFFSET	-11.649 -8.300 -8.000	m m O	3.300 3.750	6.500 8.3000 8.3000			CH 4
		CH 426.1	50				
							1 in 37.5 1 in 22.9 1 in 33.3
		<u>1 in 22.9</u> <u>1 in 33.3</u>	<u>1 in 33.3</u> <u>1 in 22</u>	2.9 1 in 37.5			
	L L L L L L L L L L L L L L L L L L L			KBL	DATUM28.0		
DATUM28.0	29.596	29.436	29.326	29.556	DESIGN SURFACE	29.772. 29.772.	
DESIGN SURFACE					EXISTING SURFACE	29.045 29.045	29.222 29.240
EXISTING SURFACE	29. 29.		00 29.897 50 29.920	m min m	OFFSET	- 8.300 - 8.000 - 8.000	-6.500 -3.750 -3.300
OFFSET	-10.424 -8.300 -6.500	m, m, O	3.300 3.750	6.500 8.300 8.300 10.081			CH 4
		RTPCH 410.	.288				
							<u>1 in 37.5 1 in 22.9 1 in 33.3</u>
		1 in 33.3	<u>1 in 33.3</u>	n 33.3 1 in 37.5			
				S S S S S S S S S S S S S S S S S S S	DATUM28.0		
	270	30.426	30.316	30.586	DESIGN SURFACE	29.749- 29.749-	
DESIGN SURFACE	270 31.	31.182 30. 31.174 30. 31.131 30.	1.068 30.	0.994 30.54 30.54 30.58 30.961 30.58	EXISTING SURFACE	28. 28. 005. 28. 28. 29. 28. 29. 20. 28. 29. 20. 20. 20. 20. 20. 20. 20. 20. 20. 20	29.091 29.251 29.278
EXISTING SURFACE	312 31.		3.300 31.(	m m	OFFSET	8 000 8 - 1 000 8 - 1	-6.500 -3.750 -3.300
OFFSET	8. œ I	-3.750 -3.300 0.000		7.750 9.250 9.550			CH 4
		RTPCH 365	0.851				
		$1 in \frac{1}{6}$ 1 in 33.3		n 33.3 1 in 3 <del>7.5</del>		1 in 6	<u>1 in 37.5 1 in 22.9</u> <u>1 in 33.3</u>
			<u> </u>				
DATUM30.0				RBL	DATUM28.0		
DESIGN SURFACE	31.872	31.269 <sup>-</sup> 31.159- 31.258-	31.159- 31.269-	31.389- 31.429- 31.429-	DESIGN SURFACE	29.085 29.715- 29.715-	29.675-29.555-29.445-
EXISTING SURFACE	31.872	31.788 31.778 31.778	31.627 31.618	31.544 31.520 31.516	EXISTING SURFACE	29.085 29.172 29.172	29.234
OFFSET	-7.370	-3.750 -3.300 0.000	3.300	7.750 9.250 9.550	OFFSET	-12.083 -8.300 -8.300	-6.500 -3.750 -3.300
		CH 351.33	39				CH 4
					Designed C. Barker	© SM Urban Pty Ltd ABN 99 124 206 819	
			estuary		Drawn C. Barker	These designs and drawings are the copyright of SM Urban Pty Lt The drawing shall not be	d.
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ROAD NAMES AMENDED COUNCIL AMENDMENTS		29.07.11 CB/CB JG L	Principal eopold Property Development I evel 1, 6 Riverside Quay	Pty Ltd	AuthorisedScale @J. GoldenH1:100Date0	<ul> <li>v, V1:50</li> <li>electronically generated, are confidential and may only be use</li> </ul>	<b>p</b> +61 3 5228 3100   <b>f</b> +61 3 5228 3
A ISSUED TO COUNCIL FOR APPROVAL		30.06.11     CB/CB     JG     S       DATE     DES/DFT     APP'D	outhbank, Victoria 3006		Date	1240.51212	Adelaide         +61         8         8223         6455         Golt           Brisbane         +61         7         3831         8988         Mell           Canberra         +61         2         6126         1900         Train

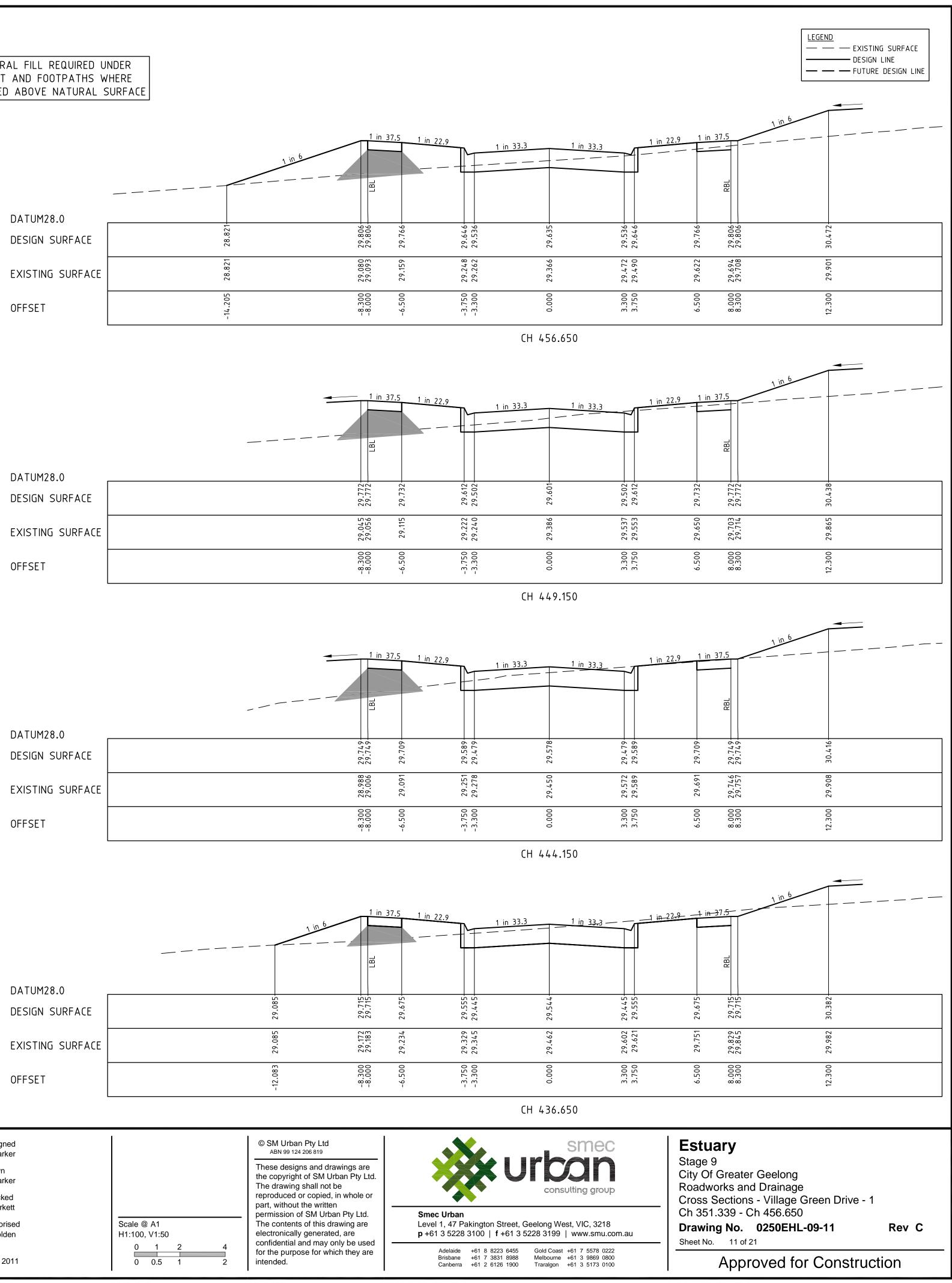
### STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE NATURAL SURFACE

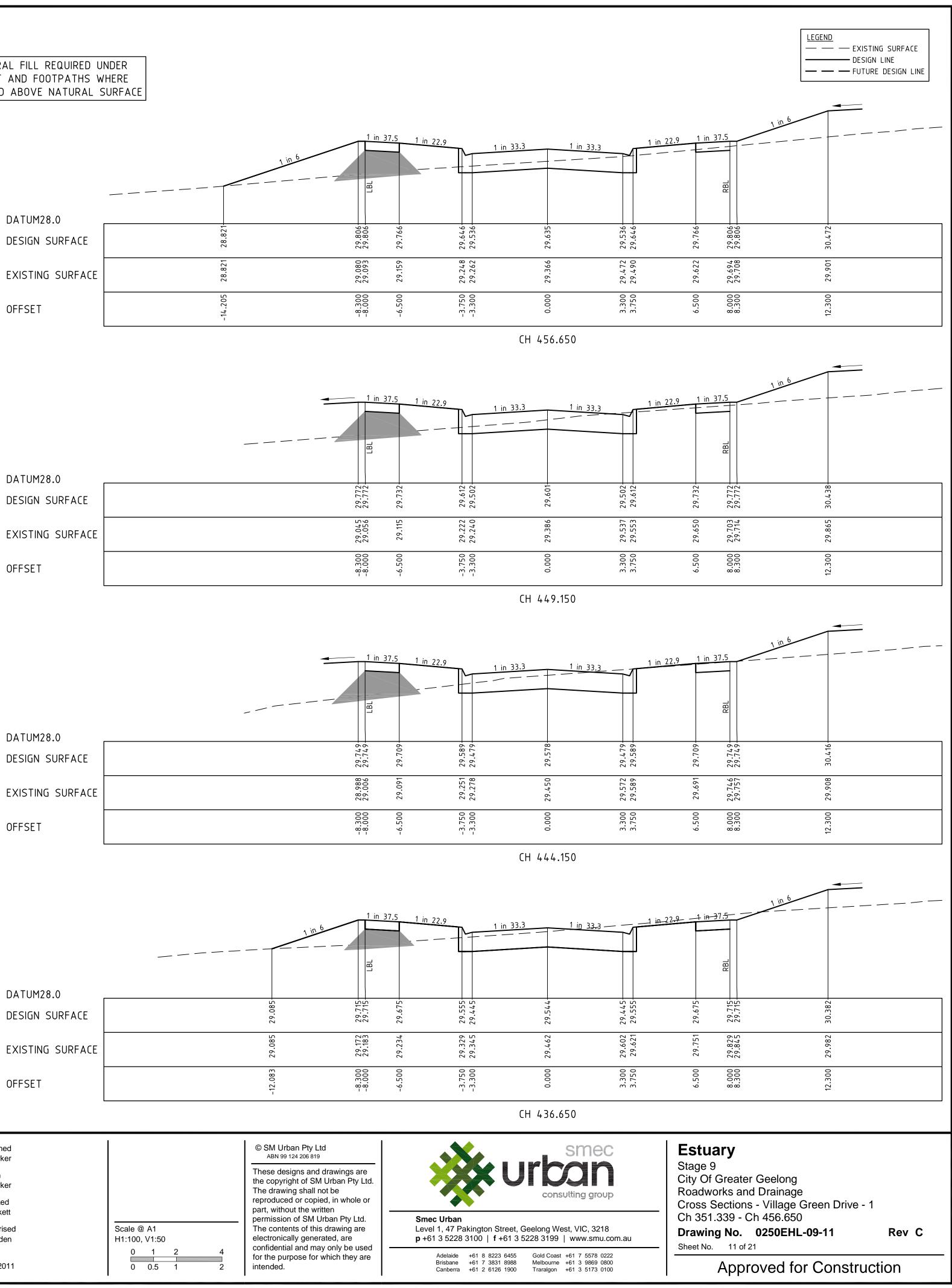


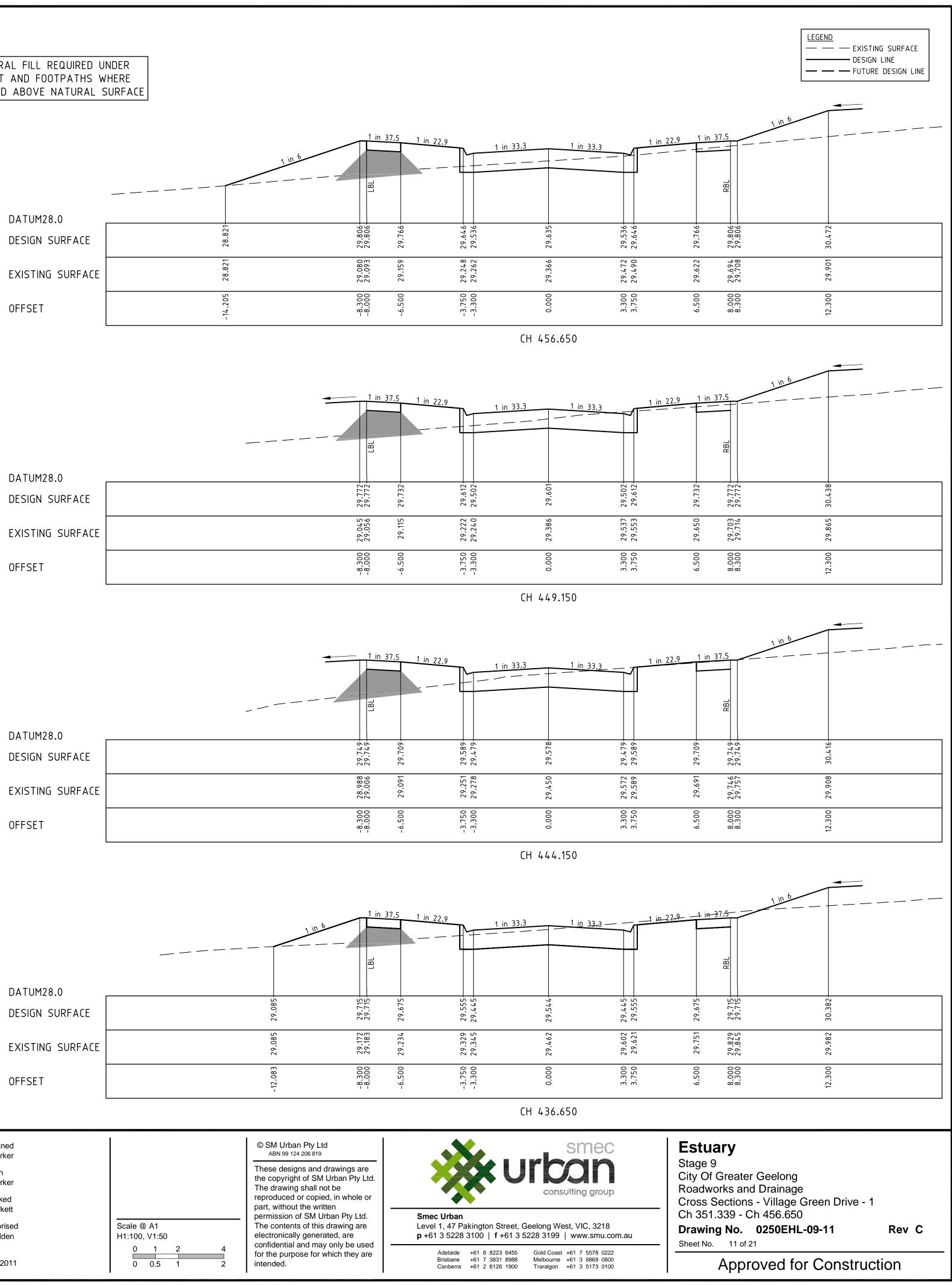


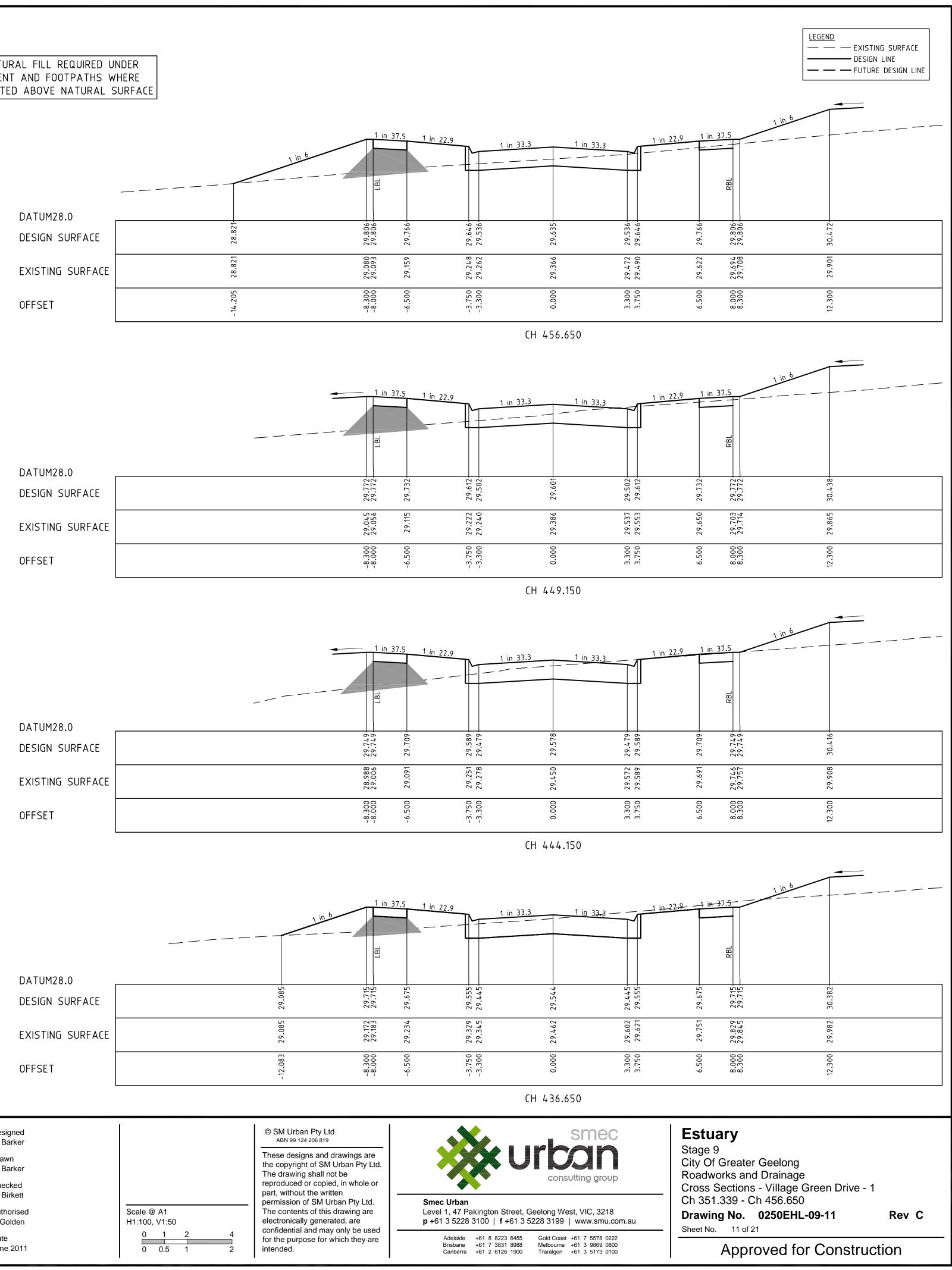


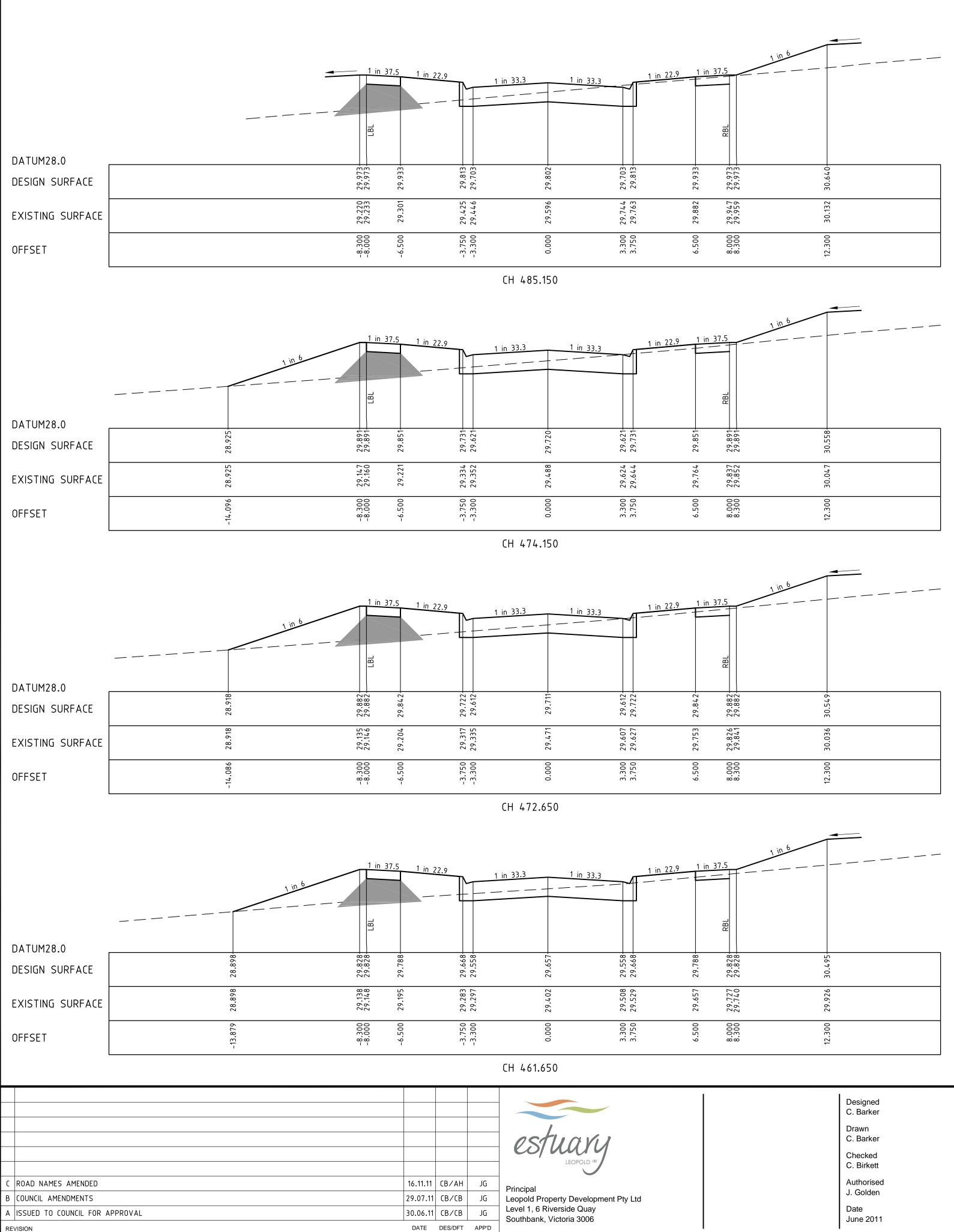


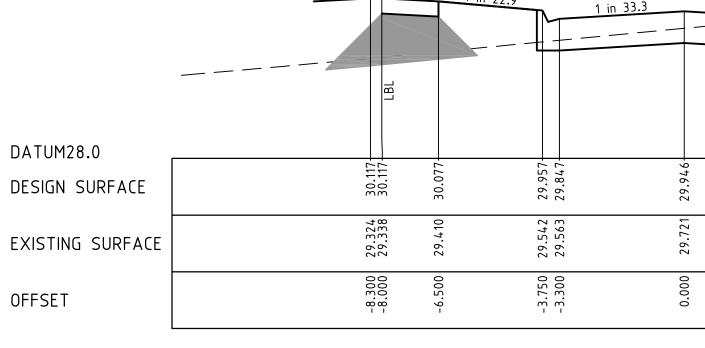




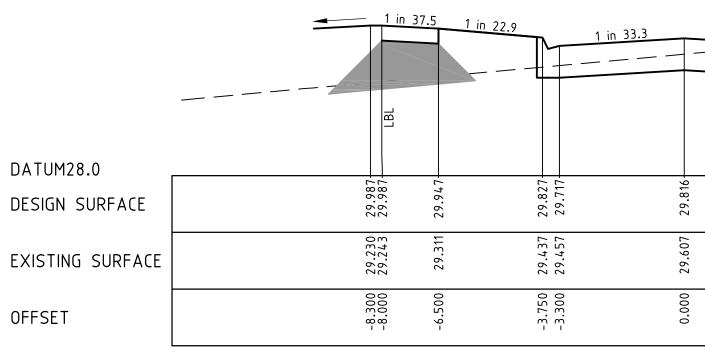








<u>1 in 37.5</u> 1 in 22.9



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Drawn C. Barker Checked		These designs and drawings are the copyright of SM Urban Pty Ltd. The drawing shall not be reproduced or copied, in whole or part, without the written	<b>XXX</b> Ur
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Date June 2011	0 1 2 4 0 0.5 1 2	confidential and may only be used for the purpose for which they are intended.	Adelaide +61 8 8223 6455 Gol Brisbane +61 7 3831 8988 Mel Canberra +61 2 6126 1900 Tra

STRUCTURAL FILL PAVEMENT AND FOO CONSTRUCTED ABOVE

		LEGEND — — — EXISTING SURFACE
		DESIGN LINE
EQUIRED UNDER		
TPATHS WHERE ATURAL SURFACE		
<u>1 in 33.3 1 in 2</u>	2.9 1 in 37.5	
	KBL	
29.847+	30.077+ 30.117+ 30.117+	30.784-
29.868 29.884	29.989 30.054 30.068	30.245
3.300 2 3.750 2	6.500 2 8.300 3 8.300 3	12.300 3
CH 499.150		12
-11 477.100		
	2.9 <u>1 in 37.5</u>	
<u>1 in 33.3</u> <u>1 in 2</u>		
	<u>SBI</u>	
29.827	29.987 29.987 29.987	30.653
29.775 2 29.775 2	29.893 2 29.958 2 29.971 2	30.14.4
3.750 29.	6.500 29. 8.300 29. 8.300 29.	
е.е 7.е	888 66 	12.300
CH 486.650		
smec	Estuary	
	Stage 9 City Of Greater Roadworks and	Geelong Drainage
consulting group		- Village Green Drive - 2

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Drawing No. 0250EHL-09-12 Rev C Sheet No. 12 of 21

	SEASHORE LANE	TREEFERN STREET
	LTPCH 29.746	CH 428.432
OFFSET	-9.550 -9.2550 -7.750 -3.300 3.750 5.826	OFFSET
EXISTING SURFACE	27.361 27.361 27.362 27.394 27.394 27.407 27.407 27.424 27.424 27.440 27.440	24.657 24.657 24.657 224.658 224.658 224.658 37 37 37 37 37 37 37 37 37 37 37 37 37
DATUM26.0 DESIGN SURFACE	27.434 27.434 27.434 26.984 27.094 26.984 27.083 27.083 27.083 27.084 27.084 27.084 27.084 27.084 27.084 27.084 27.094	DATUM23.0 DESIGN SURFACE 5 7 7 92 5 7 7 7 92 5 7 7 9
	1 in 33.3 1 in 33.3	
_	-	
	CH 43.974	LTPCH 442.943
OFFSET	-7.750     28       -3.750     28       -3.750     28       -3.750     28       -3.750     28       -3.750     28       -3.750     28       -3.750     28       -3.750     28       -3.750     28       -3.750     28       -3.750     28       -3.200     28       -3.200     28	OLLER
EXISTING SURFACE	28.041 28. 28.045 28. 28.109 27. 28.114 27. 28.114 27. 28.114 27. 28.114 27. 28.114 27. 28.114 27. 28.114 27. 28.114 28. 28.114 28.	EXISTING SURFACE 25.292 25.292 25.292 25.292 25.263 25.250 25.263 25.2652 25.2652 25.2
DATUM27.0		DATOM24.0 DESIGN SURFACE DESIGN SURFACE DES
	1 in 37 5	
OFFSET — DATUM27.0 DESIGN SURFACE	2335 194 194 194 194 195 195 195 195 195 195 195 195	DATUM24.0

	33.3 1 in	<u>33.3</u>	
28.696- 28.586-	28.685-	28.586- 28.696- 28.886-	
28.818 28.819	28.846	28.873 28.877 28.886 28.886	
-3.750 -3.300	0.000	3.300 3.750 4.893	

1 in 37.5

29.036-29.036-

28.795 28.796

28.

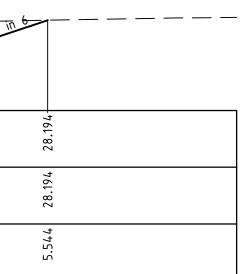
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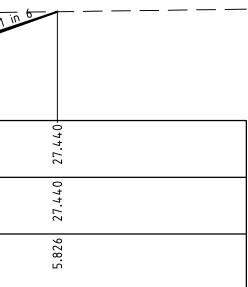
DATUM28.0

DESIGN SURFACE

EXISTING SURFACE

<u>1 in 13.3</u>





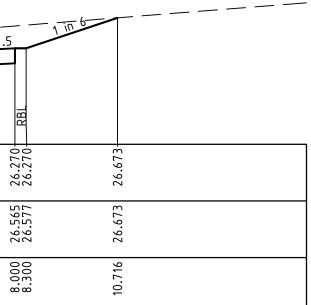
		<u>in 37.5 1 in 33.3</u>	1 in 33.3	1 in 33.3	
DATUM24.0			— — — — — — — — — — — — — — — — — — —	5	
DESIGN SURFACE	25.263+ 25.263+	25.23-	25.103 <sup>-</sup> 24.993-	25.092	24.993- 25.103 25.265-
EXISTING SURFACE	25.250 25.252	25.263	25.292 25.295	25.283	25.269 25.269 25.265
OFFSET	- 9.550 - 9.250	-7.750	-3.750 -3.300	0.000	3.300 3.750 4.722
			LTPCH 442.943		
		<u>in 37.5 1 in 33.3</u> —	1 in 33.3	<u> </u>	
DATUM23.0			<u> </u>		
DESIGN SURFACE	24.666- 24.666-		24.506 <sup>-</sup> 24.396-	24.495	24.396 <sup>-</sup> 24.506 <sup>-</sup> 24.657 <sup>-</sup>
EXISTING SURFACE	24.606 24.609	24.621	24.656 24.658	24.657	24.657 24.657 24.657
OFFSET	- 9.550 - 9.250	-7.750	-3.750 -3.300	0.000	3.300 3.750 4.652



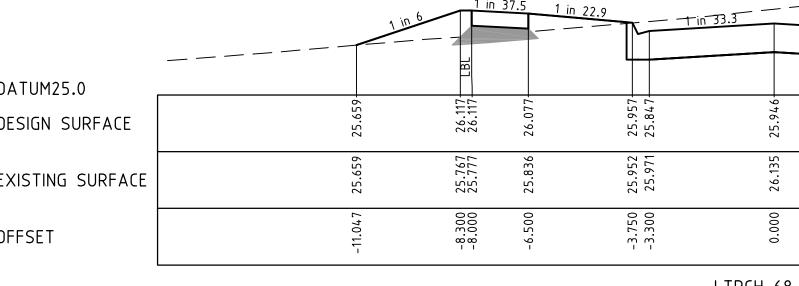
### <u>LEGEND</u> — — — EXISTING SURFACE ----- DESIGN LINE

	STRUCTURAL FILL	REQUIRED UNDER 00TPATHS WHERE	LEGEND — — — EXISTING SURFACE — — DESIGN LINE — — — FUTURE DESIGN LINE
	CONSTRUCTED ABOVI	E NATURAL SURFACE	
			REFER INTERSECTION       DETAILS
			1 in 33.3 1 in 33.3 1 in 22.9 1 in 37.5
DATUM25.0 DESIGN SURFACE	26.136 26.136 26.096 25.976 26.136 26.136 26.136 27.9776 27.977777777777777777777777777777777777	DATUM25.0	25.958 26.057 26.188 26.058 26.058 26.057 26.058 8 26.057 26.057 26.058 8 26.057 26.057 26.058 8 26.057 26.058 27.058 27.
EXISTING SURFACE	25.575 25.587 25.647 25.037 26.037 26.037 26.037 26.037 26.222 26.222	DESIGN SURFACE	
OFFSET	8:300 9:32000 9:3200 9:3200 9:32000 9:32000 9:320000 9:32000 9:32000 9:32000	EXISTING SURFACE	5 55 5 56 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
	CH 59.250	OFFSET	-3.300 6.500 8.300 8.300 11.332
			CH 87.750
	<u>1 in 37.5 1 in 22.9</u> <u>1 in 33.3</u> <u>1 in 33.3</u> <u>1 in 37.5</u>		DETAILS 
		DATUM25.0	
DESIGN SURFACE	25.837 25.837 25.936 26.048 26.197 25.936 26.329 26.329 26.329 25.936 26.329 25.936 25.9566 25.9566 25.9566 25.9566 25.9566 25.9566 25.9566 25.9566 25.9566 25.9566 25.9566 25.9566 25.9566 25.9566 25.95666 25.9566 25.9566 25.95666 25.9566666 25.95666666666666666	DESIGN SURFACE	25.85 26.12 26.54
EXISTING SURFACE	8.3000 8.3000 8.3000 8.3000 2.5. 8.3000 2.5. 2.	EXISTING SURFACE	25.993 26.132 26.444 26.543 26.543 26.543
OFFSET		OFFSET	-3.300 8.3000 8.3000 10.831
	CH 57.250		CH 71.750
	$\frac{1 \text{ in } 37.5  1 \text{ in } 22.9}{1 \text{ in } 33.3  1 \text$	-	$\frac{1 \text{ in } 37.5}{1 \text{ in } 37.5} \frac{1 \text{ in } 22.9}{1 \text{ in } 33.3} \frac{1 \text{ in } 33.3}{1 \text{ in } 33.3} \frac{1 \text{ in } 37.5}{1 \text{ in } 37.5}$
DATUM25.0 DESIGN SURFACE	25.712 25.712 26.0668 26.0668 26.0668 26.0668 26.0668 26.0668 26.036 26.036 26.036 26.036 26.167 26.036 26.167 26.036	DATUM25.0 DESIGN SURFACE	25.956 26.017 26.017 25.946 25.947 26.017 26.117 26.117 26.117 26.117 27 26.117 26.117 26.117 27 26.117 27 26.117 27 26.117 27 26.117 27 26.117 27 26.117 27 26.117 27 26.117 27 26.117 27 26.117 27 26.117 27 26.117 27 27 27 27 27 27 27 27 27 27 27 27 27
EXISTING SURFACE	25.712     2       25.846     2       25.856     2       25.856     2       26.379     2       26.558     2	_	25.659 25 25.767 26 25.767 26 25.25334 25 26.334 25 26.334 25 26.334 25 26.547 26 26.547 26 26.547 26 26.547 26
OFFSET	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	EXISTING SURFACE	-11.047 25. -8.300 25. -8.300 25. -3.300 25. -3.25. -3.300 25. -3.300 25. -3.300 25. -3.25. -3.300 25. -3.25. -3.300 25. -3.25
		OFFSET	
	$\frac{1 \text{ in } 37.5}{1 \text{ in } 22.9} = -1 \frac{1 \text{ in } 33.3}{1 \text{ in } 33.3} = -1 \frac{1 \text{ in } 33.3}{1 \text{ in } 33.3} = -1 \frac{1 \text{ in } 33.3}{1 \text{ in } 22.9} = 1 \frac{1 \text{ in } 37.5}{1 \text{ in } 37.5}$		LTPCH 68.350
DATUM25.0		DATUM25.0	
DESIGN SURFACE	1     25.751       1     25.751       26.000     26.270       2     26.000       2     26.270       2     26.270       2     26.270       2     26.270       2     26.270       2     26.270       2     26.270       3     26.270       3     26.270       3     26.270	DESIGN SURFACE	25.65 26.11 26.07 25.95 25.94 25.95
EXISTING SURFACE	25.35 25.87 25.89 25.89 26.36 26.38 26.36 26.36 26.36 26.50 26.56 26.56	EXISTING SURFACE	25.948 25.948 25.948 25.948 25.948 25.948 25.948 25.948 25.948 25.953 26.411
OFFSET	-11.411 -11.411 -8.3000 -8.3000 3.750 -3.750 -3.750 -3.750 -3.750 -10.716	OFFSET	-11.061 -8.3000 -8.3000 -3.750 -3.300 8.3000 8.3000 8.3000 -3.750 -3.750 -3.750
	LTPCH 25.387		CH 67.648
ROAD NAMES AMENDED	Image: Section of the section of th	Scale @ A1 H1:100, V1:	electronically generated, are <b>p</b> +61 3 5228 3100   f+61 3 5228 3199   www.smu.com.au
COUNCIL AMENDMENTS     ISSUED TO COUNCIL FOR APPROVAL	29.07.11       CB/CB       JG       Leopold Property Development Pty Ltd       Date         30.06.11       CB/CB       JG       Southbank, Victoria 3006       Date	0 1 0 0.5	1 2 4 confidential and may only be used for the purpose for which they are Richards used to the purpose for which they are Ric
ISION	DATE DES/DFT APP'D	I	

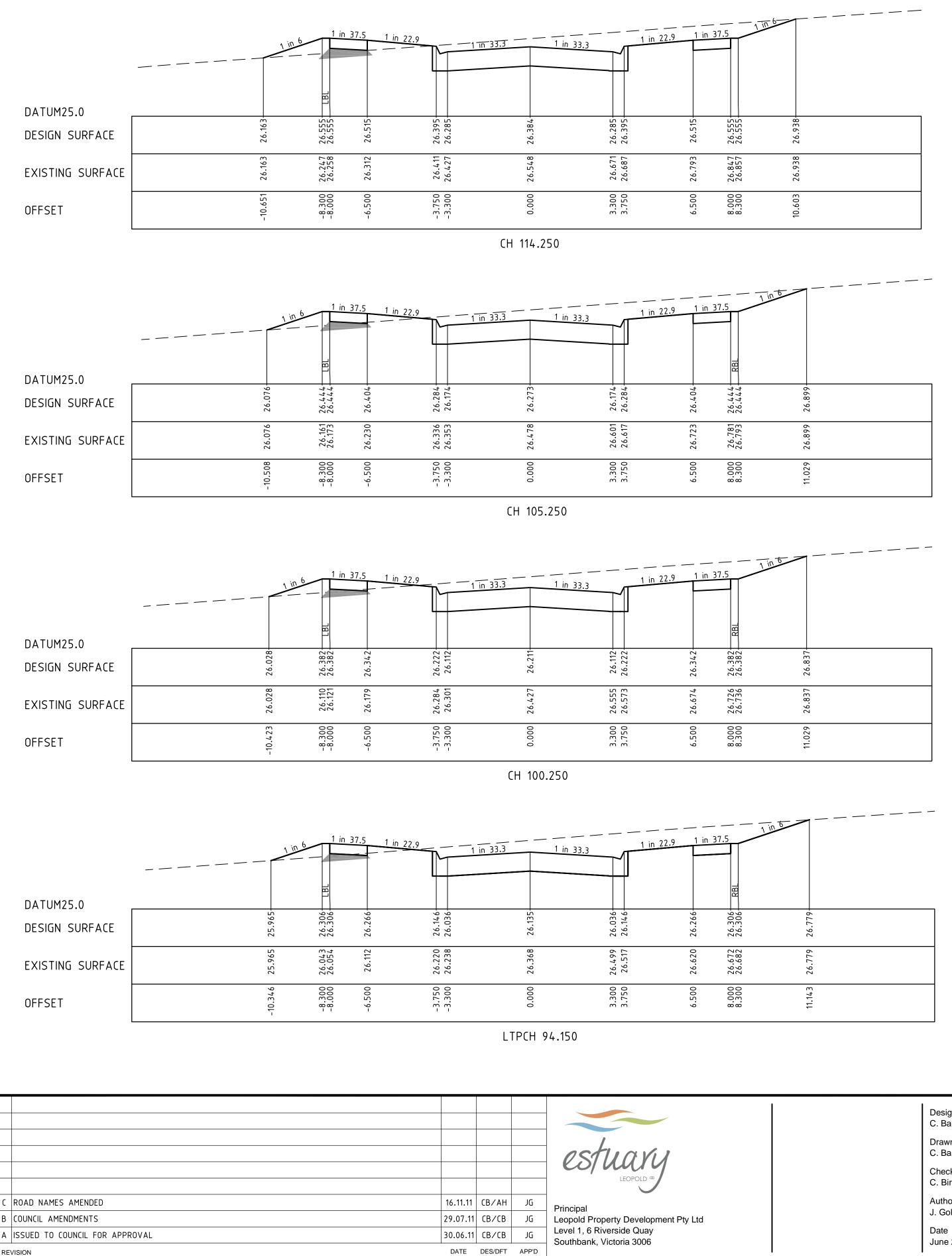
STRUCTURA PAVEMENT			
CONSTRUCTED	ABOVE	NATURAL	SURFACE



				DE	ISTING SURFACE SIGN LINE TURE DESIGN LINE
ED UNDER HS WHERE RAL SURFACE					
	<	TERSECTION DETAILS			
		<u>1 in 33.3</u>	1 in 33.3		
TUM25.0					
IGN SURFACE		8 25.958	9 25.958 <sup>.</sup> 7 26.068 <sup>.</sup>	1         26.188+           5         26.228+           3         26.733+	
TING SURFACE		26.178	26.439	26.561 26.626 26.623	
SET		-3.300	3.300 3.750	6.500 8.300 8.300 11.332	
	REFER IN	CH 87.	750		
		DETAILS	<u> </u>		
UM25.0 GN SURFACE		25.950	25.851	26.081 26.121 26.543	
TING SURFACE		25.993 2	26.294 2	26.424 2 26.458 2 26.543 2 26.543 2 26.543 2	
ET		3.300	3.300 20	6.500 26 8.300 26 10.831 20	
UM25.0 GN SURFACE	-11.047 25.659 25.659 25.659 -8.300 25.777 26.117 -6.500 25.836 26.077 26.117 -6.500 25.836 26.077	-3.750 25.952 25.952 -3.300 25.971 25.8477	3.300 26.334 25.957 3.750 26.334 25.957	6.500 26.411 26.077 8.300 26.453 26.117 RBL 66 10.878 26.547 26.547 26.547	
SET		LTPCH 6			
 JM25.0		22.9		9 1 in 37.5	
GN SURFACE	25.657- 26.117- 26.077-	25.957-25.847-25.846-25.946-	25.957+	26.077+ 26.117+ 26.553+	
TING SURFACE	25.657 25.766 25.776 25.832	25.948 25.967 26.138	26.337 26.337	26.411 26.458 26.468 26.553	
ET	-11.061 -8.300 -8.000 -6.500	-3.750 -3.300 0.000	3.300 3.750	6.500 8.300 8.300	
		CH 67.	648		]
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Scale @ A1 H1:100, V1:50 0 1 2	4 The contents of this drawing are electronically generated, are confidential and may only be used for the purpose for which they are	Level 1, 47 Pakington Street, G <b>p</b> +61 3 5228 3100   <b>f</b> +61 3 5 Adelaide +61 8 8223 6455	228 3199   www.smu.com.au Gold Coast +61 7 5578 0222	Drawing No. 0250EHL-09-14 Sheet No. 14 of 21	Rev C
0 0.5 1	2 for the purpose for which they are 2 intended.	Aderalde         +61         6         522         6403           Brisbane         +61         7         3831         8988           Canberra         +61         2         6126         1900	Melbourne +61 3 9869 0800 Traralgon +61 3 5173 0100	Approved for Constru	uction



STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE NATURAL SURFACE



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Date June 2011		confidential and may only be used for the purpose for which they are intended.	Adelaide +61 8 8223 6455 Brisbane +61 7 3831 8988 Canberra +61 2 6126 1900

### <u>LEGEND</u>

— — EXISTING SURFACE
 DESIGN LINE
 FUTURE DESIGN LINE



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### Estuary

Stage 9 City Of Greater Geelong Roadworks and Drainage Cross Sections - Treefern Street - 2 Ch 94.150 - Ch 114.250 **Drawing No. 0250EHL-09-15** Sheet No. 15 of 21

Rev C

DATUM24.0							RB	
DESIGN SURFACE	25.616 <sup>-</sup> 25.616-	25.576-	25.456	25.445-	25.346- 25.456-	25.576	25.616- 25.616-	
EXISTING SURFACE	25.823 25.820	25.806	25.775 25.769	25.728	25.695 25.688	25.643	25.618 25.613	
OFFSET	-8.300 -8.000	-6.500	-3.750 -3.300	0.000	3.300 3.750	6.500	8.300 8.300	
			TP	EH 192.599				
	1 in 3	7.5 1 in 22.9				<u>.9 1 in 3</u>	1 <del>7.5- <b></b></del>	
			1 in 33.3	1 in 33.3				
DATUM24.0				m m				
DESIGN SURFACE	25.014 ·	24.974	24.854 <sup>-</sup> 24.744-	24.843	24.744 <sup>-</sup> 24.854-	24.974	25.014- 25.014	
EXISTING SURFACE	25.297	25.278	25.238	25.196	25.155 25.149	25.122	25.115 25.113	
OFFSET	-8.300 -8.000	-6.500	-3.750	0.000	3.300 3.750	6.500	8.300	
			Cł	178.499				
	— <u>1 in 3</u>	7.5 1 1 2 2 2				<b>د</b> ۲۰ م	7 5	
		7.5 1 in 22.9	1 in 33.3	1 in 33.3	1 in 22		7.5	
		1 11 22.9	1 in 33.3	1 in 33.3	1 in 22	2.9 1 11 3		
ΠΑΤΙΜ22 Ο	LBL	1 11 22.9	1 in 33.3	1 in 33.3	1 in 22	2.9 1 11 3	BB	
DATUM23.0 DESIGN SURFACE	LBL			.290			RBL	
DESIGN SURFACE	24.461	24.421	24.191	24.290	24.191	24.421	24.461 24.461 RBL	
	24.826 24.461 LBL	24.814 24.421	24.799 24.191	24.764 24.290	24.728 24.191	24.690 24.421	24.672 24.461 RBL	
DESIGN SURFACE	24.461	24.814 24.421	24.191	24.290	24.191	24.421	24.461 24.461 RBL	
DESIGN SURFACE	24.826 24.461 LBL	24.814 24.421	-3.750 24.800 24.301 -3.300 24.799 24.191	24.764 24.290	24.728 24.191	24.690 24.421	24.672 24.461 RBL	
DESIGN SURFACE	24.826 24.461 LBL	24.814 24.421	-3.750 24.800 24.301 -3.300 24.799 24.191	0.000 24.764 24.290	3.300 24.728 24.191 3.750 24.723 24.301	6.500 24.690 24.421	8.000 24.672 24.461 RBL 8.300 24.669 24.461 RBL	
DESIGN SURFACE	24.826 24.461 LBL	24.814 24.421	-3.750 24.800 24.301 -3.300 24.799 24.191	0.000 24.764 24.290	3.300 24.728 24.191 3.750 24.723 24.301	6.500 24.690 24.421	8.000 24.672 24.461 RBL 8.300 24.669 24.461 RBL	
DESIGN SURFACE	24.826 24.461 LBL	24.814 24.421	-3.750 24.800 24.301 -3.300 24.799 24.191	0.000 24.764 24.290	3.300 24.728 24.191 3.750 24.723 24.301	6.500 24.690 24.421	8.000 24.672 24.461 RBL 8.300 24.669 24.461 RBL	
DESIGN SURFACE EXISTING SURFACE OFFSET	24.826 24.461 LBL	24.814 24.421	-3.750 24.800 24.301	1 165.499	3.300 24.728 24.191 3.750 24.723 24.301 esty	24.690 24.421	8.000 24.672 24.461 RBL 8.300 24.669 24.461 RBL	
DESIGN SURFACE	24.826 24.461 LBL	24.814 24.421	-3.750 24.800 24.301 -3.750 24.800 24.301 -3.750 24.191 -3.750 24.191 -3.750 24.301 -3.750 24.301 -3.7500 24.301 -3.7500 24.301 -3.7500 24.30100000000000000000000000000000000000	0.000 24.764 24.290	3.300 24.728 24.191 3.750 24.723 24.301	6:500 24.421	8.000 24.672 24.461 RBL 8.300 24.669 24.461 RBL	

<u>1 in 37.5 1 in 22.9</u> 1 in 33.3 1 in 33.3 <u>1 in 22.9</u> 1 in 37.5 1 in 33.3 1 in 33.3

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### <u>LEGEND</u>

— — — EXISTING SURFACE ----- DESIGN LINE 



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**Estuary** Stage 9 City Of Greater Geelong Roadworks and Drainage Cross Sections - Timberland Street

Drawing No. 0250EHL-09-16 Sheet No. 16 of 21

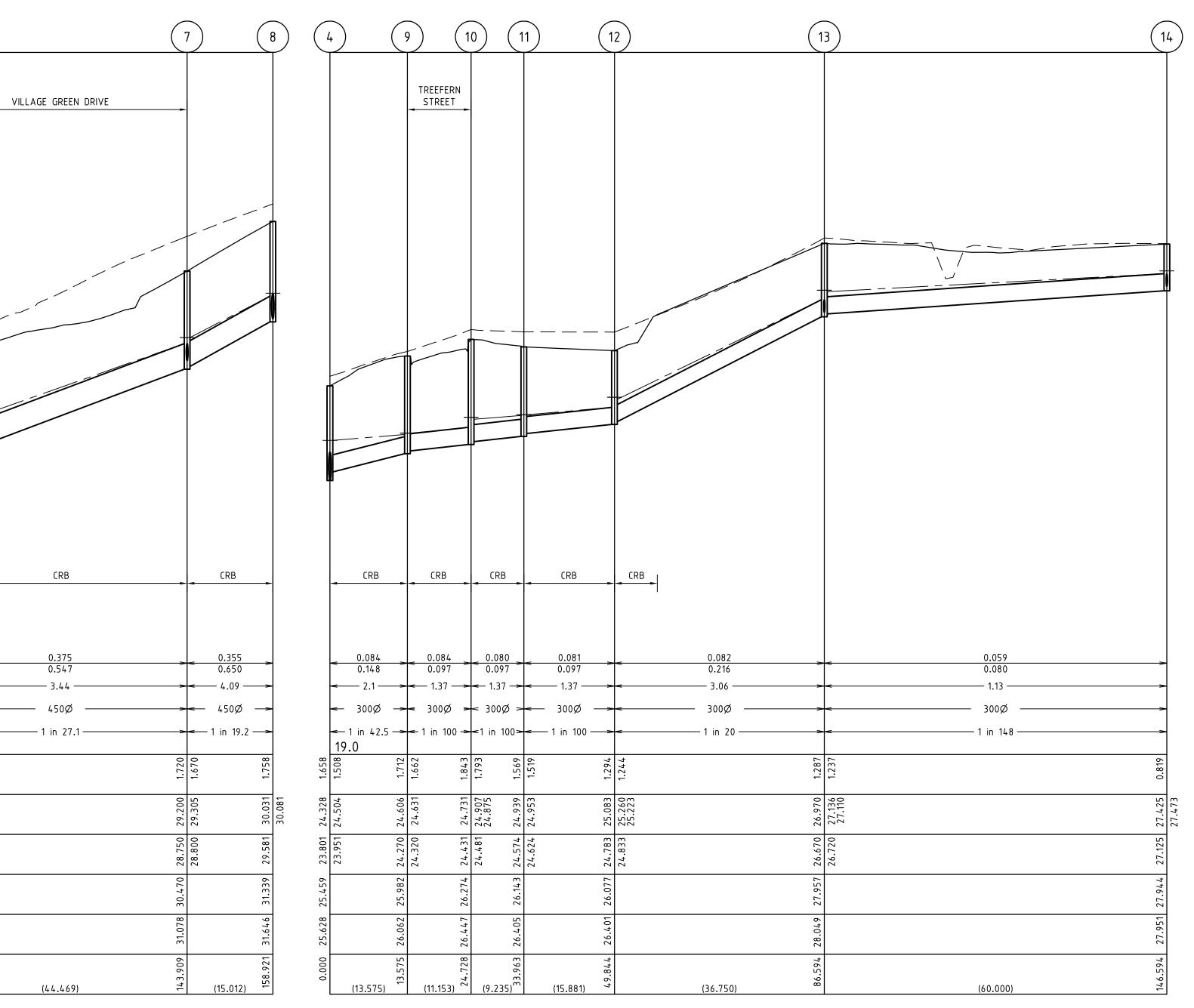
Rev C

	2)	3)	+)	5)	6
			TREEFERN STREET		
	CRB	CRB	CRB	CRB	
DESIGN FLOW (m3/s) CAPACITY (m3/s) AT GRADE VELOCITY (m/s) PIPE SIZE (mm)	<ul> <li>0.630</li> <li>0.685</li> <li></li> <li>4.3 →</li> <li></li> <li>450Ø →</li> </ul>	<u>- 0.619</u> 0.669 - - 4.21 - 450Ø -	<ul> <li>0.544</li> <li>0.556</li> <li>3.5</li> <li>450Ø</li> </ul>	0.531 0.589 3.7	-
grade DATUM	← 1 in 17.4 → 18.0	<1 in 18.2>		-<	22.0
DEPTH TO INVERT		1.775 1.658	1.608	1.601	1.945
HYDRAULIC GRADE LINE			24.504		27.659
INVERT LEVEL	22.588 23.273 23.273	23.323 23.801 23.801	23.851	25.559	27.112
FINISHED SURFACE LEVELS	25.098	25.459	27.160	29.057	
EXISTING SURFACE LEVEL	25.269	25.628	27.413	29.140	
CHAINAGE (Reach Length)	(11.893)	(089'8) (089'8) 20.573	(43.612)	(35.255) (35.255)	

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С	ROAD NAMES AMENDED	16.11.11	СВ∕АН	JG	Principal
В	COUNCIL AMENDMENTS	29.07.11	СВ∕СВ	JG	Leopold Property
A	ISSUED TO COUNCIL FOR APPROVAL	30.06.11	СВ∕СВ	JG	Level 1, 6 Riversic Southbank, Victor
RE	VISION	DATE	DES/DFT	APP'D	

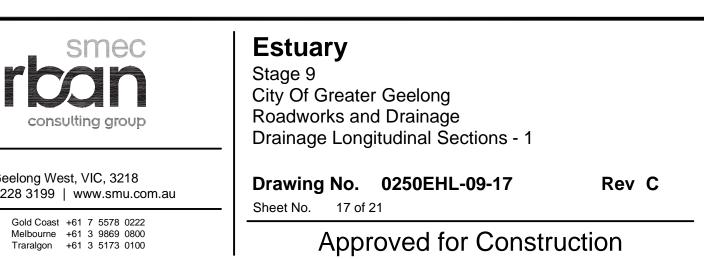
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LEGEND
— — — EXISTING SURFACE
DESIGN SURFACE
— — — EXISTING DRAINAGE PIPE/PIT



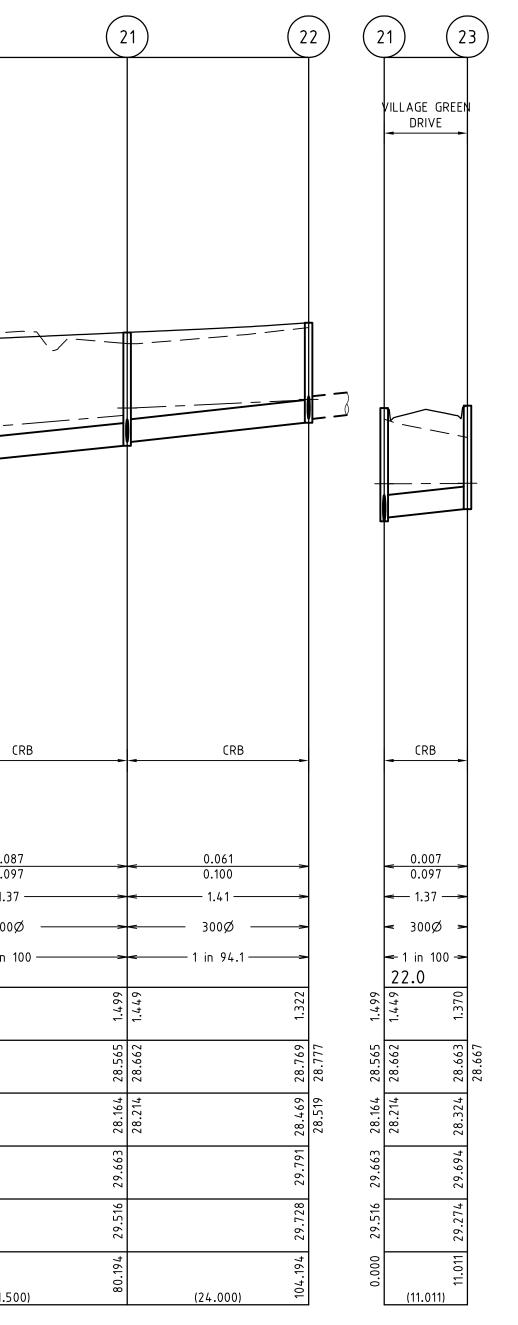
	13	(15)	5	) (16)	6		(1'		8 (1	9) (2	20)
			51	EASHORE WAY			V.	ULLAGE GREEN			
			-	CRB	-	CRB		CRB	CRB	CRB	CRB
DESIGN FLOW (m3/s) CAPACITY (m3/s) AT GRADE VELOCITY (m/s) PIPE SIZE (mm)	<	0.007 0.094 2.37		0.015 0.112 - 1.58 -> 300Ø >	-	<u>0.162</u> 0.175 ← 1.59 − ← 375Ø			<u> </u>	<u> </u>	<u> </u>
GRADE DATUM	21.0			in 74.8≻ 9.0	95 201 A	21.0				<ul> <li>1 in 100</li> <li>1 in 100</li> <li>1 in 100</li> <li>1 in 100</li> </ul>	- 1 in 100 -
DEPTH TO INVERT	70 1.212 97 1.162 68	34 1.146 48			12 1.995		90 2.089			77 1.820 67 1.747	
HYDRAULIC GRADE LINE	45 26.970 95 27.197 27.168	27.634 27.648	09 26.028		52 27.512						. 49 28.307
INVERT LEVEL	7 26.745 26.795	5 27.409	0 25.509 75.69		7 27.062						27.849
FINISHED SURFACE LEVELS	2	1 28.555	3 27.160	4 27.206	) 29.057		5 29.379	7 29.445			
EXISTING SURFACE LEVEL	28.049	28.601	27.413	27.454	29.140		29.556	30.027	29.940	29.723	
CHAINAGE (Reach Length)	00000 (1	000.71	0.000	8.500)	0.000	(15.360)	15.360	(11.167) 26.527	(35.331 (35.331	469 89 (13.362)	(31.500)

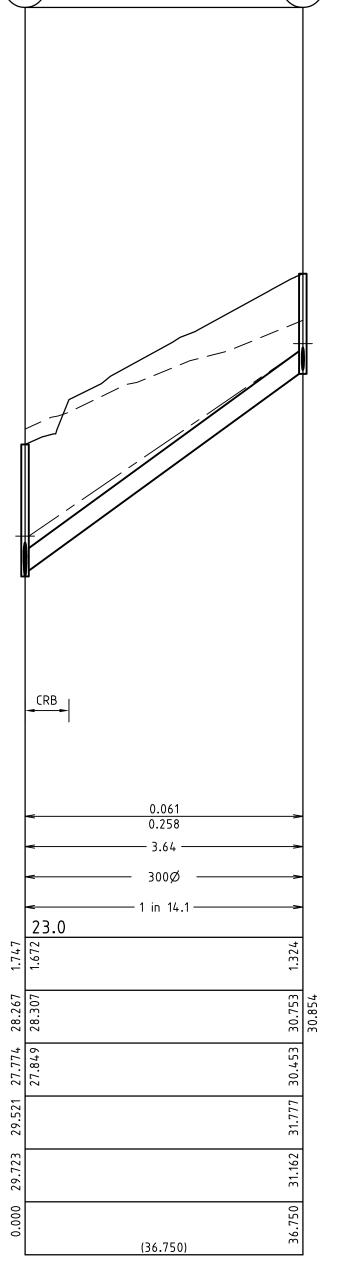


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С	ROAD NAMES AMENDED	16.11.11	CB/AH	JG	Principal
В	COUNCIL AMENDMENTS	29.07.11	СВ∕СВ	JG	Leopold Property D
А	ISSUED TO COUNCIL FOR APPROVAL	30.06.11	CB/CB	JG	Level 1, 6 Riverside Southbank, Victoria
RE	VISION	DATE	DES/DFT	APP'D	

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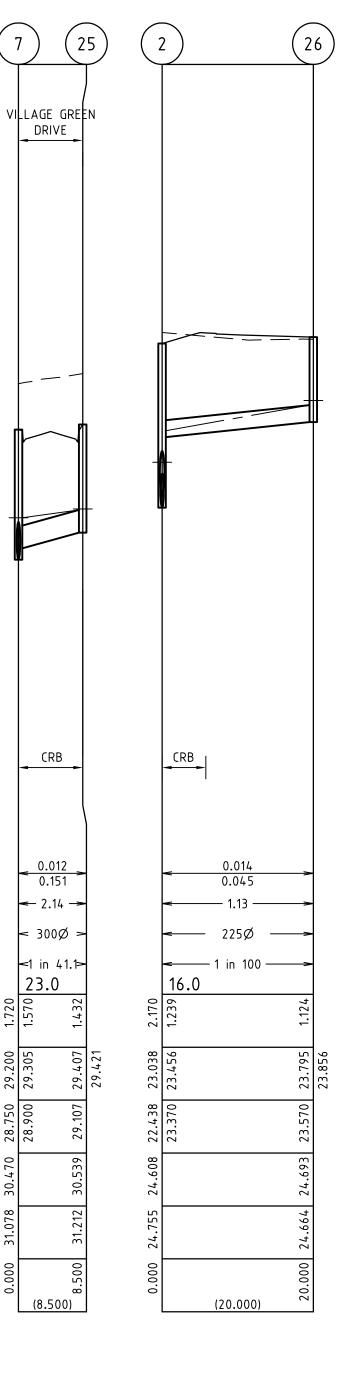


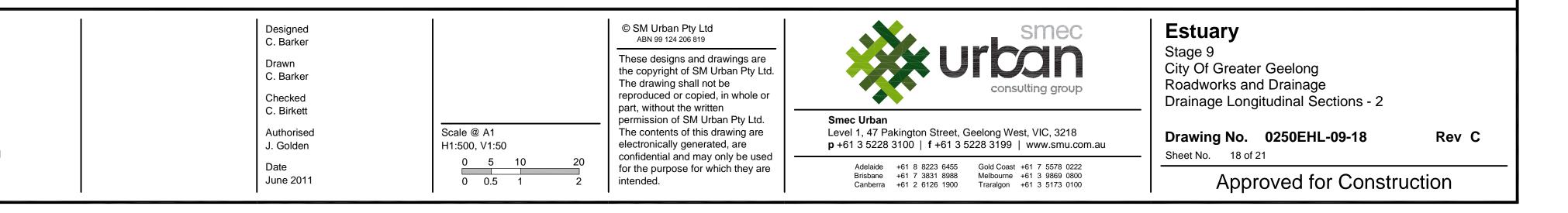


(24)

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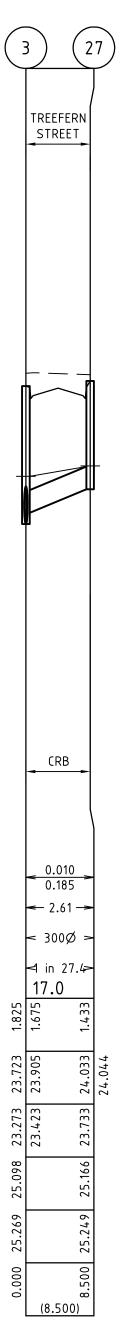
(20)





### LEGEND

LEGEND	
	- EXISTING SURFACE
	-DESIGN SURFACE
	-DRAINAGE PIPE/PIT
	- EXISTING DRAINAGE PIPE/PIT
	- HYDRAULIC GRADE LINE



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C	ROAD NAMES AMENDED	16.11.11	СВ∕АН	JG	Principal
В	COUNCIL AMENDMENTS	29.07.11	CB/CB	JG	Leopold Prope
А	ISSUED TO COUNCIL FOR APPROVAL	30.06.11	CB/CB	JG	Level 1, 6 Rive Southbank, Vic
RE	VISION	DATE	DES/DFT	APP'D	

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		CRB	-	CRB	-		RB	-
DESIGN FLOW (m3/s) CAPACITY (m3/s) AT GRADE VELOCITY (m/s) PIPE SIZE (mm) GRADE		1 111 2 113	< < < < 1	0.051 0.193 - 2.73 — 300Ø in 25.2	<u>~</u>	<ul> <li>0.<sup>-</sup></li> <li>2.</li> <li><b>≺</b> 30</li> </ul>	,	A A A
DATUM DEPTH TO INVERT	1.517	16.0 1.505 1.505	1.455		1.658	1.608	7751	1000
HYDRAULIC GRADE LINE	23.189	23.253	24.398 24.388		24.816	24.844	75 189	25.363
INVERT LEVEL	22.889	22.939 22.939 23.952	24.002		24.516	24.566	688 76	7 * * 0 0 / 1
FINISHED SURFACE LEVELS	24.406	25.457			26.174		76 756	1,01,2,02
EXISTING SURFACE LEVEL	24.875	25.762			26.204		26 602	
CHAINAGE (Reach Length)	0.000	665: *7 (24.599)	(	12.940)	37.539	(10.	762)	- ^ r · o +

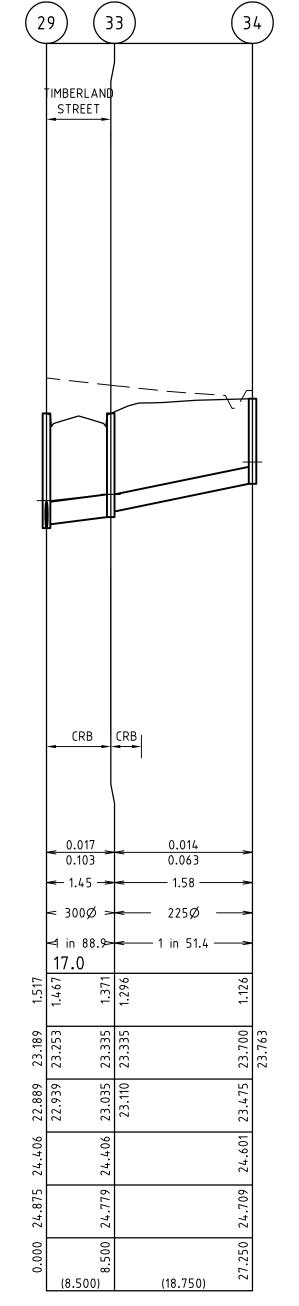
(29)

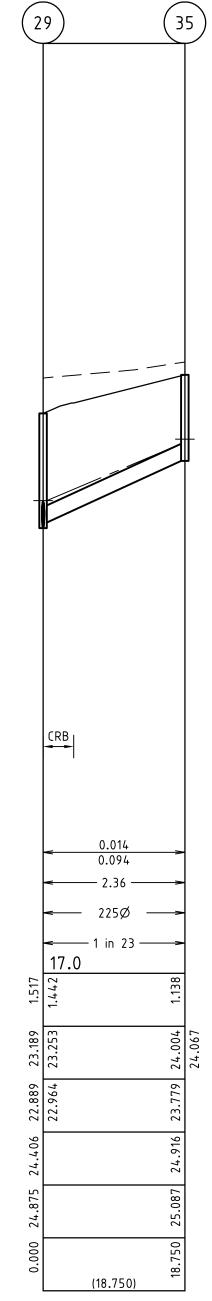
(30)

(32)

TREEFERN STREET

(31)





				1				PIT SCHEDULE					
(30) $(36)$	(37) (38)	) PIT	ТҮРЕ	INTE	RNAL	INL	ET	OUT	LET	ESL (m)	DEPTH (m)	STANDARD	REMARKS
$\gamma$	$\rightarrow$	NUMBER		WIDTH (mm)	LENGTH (mm)	DIAMETER (mm)	INVERT R.L.(m)	DIAMETER (mm)	INVERT R.L. (m)			DRAWING	NEWANKS
TIMBERLAND	TREEFERN	2	Ex PIT			450	22.588	600	22.438	24.608	2.170		CONNECT TO EXISTING PI
STREET	STREET					225	23.370						
		3	SIDE ENTRY PIT	900	900	450	23.323	450	23.273	25.098	1.825	SD 430 & SD 415	
						300	23.423	450	22.004	25.450	1.650	CD 420	
		4	JUNCTION PIT	900	900	450	23.851	450	23.801	25.459	1.658	SD 420	
		5	SIDE ENTRY PIT	900	900	300 450	23.951 25.559	450	25.509	27.160	1.651	SD 430	
		5	SIDE LINIKT PH	300	900	300	25.659	430	23.309	27.100	1.051	50 450	
		6	SIDE ENTRY PIT	900	900	450	27.112	450	27.062	29.057	1.995	SD 430 & SD 415	
				500		375	27.137		27.002	23.037	1.555	50 450 4 50 415	
		7	SIDE ENTRY PIT	900	900	450	28.800	450	28.750	30.470	1.720	SD 430 & SD 415	
						300	28.900						
		8	JUNCTION PIT	900	900			450	29.581	31.339	1.758	SD 420 & SD 415	
						450	29.631						
		9	SIDE ENTRY PIT	900	900	300	24.320	300	24.270	25.982	1.712	SD 430 & SD 415	
		10	SIDE ENTRY PIT	900	900	300	24.481	300	24.431	26.274	1.843	SD 430 & SD 415	
		11	JUNCTION PIT	900	900	300	24.624	300	24.574	26.143	1.569	SD 420	
		12	JUNCTION PIT	900	900	300	24.833	300	24.783	26.077	1.294	SD 420	
		13	JUNCTION PIT	900	900	300	26.720	300	26.670	27.957	1.287	SD 425	
						225	26.745						
		14	JUNCTION PIT	600	900	225	27.200	300	27.125	27.944	0.819	SD 425	
		15		600	000	225	27.200	225	27.400		1 1 1 6	SD 425	
		15 16	JUNCTION PIT	600 900	900 900			225 300	27.409 25.773	28.555 27.206	1.146 1.433	SD 425 SD 430	
		10	SIDE ENTRY PIT	900	900	375	27.341	375	27.291	29.379	2.089	SD 430 SD 430 & SD 415	
		18	SIDE ENTRY PIT	900	900	375	27.502	375	27.452	29.445	1.993	SD 430 & SD 415	
		10	JUNCTION PIT	900	900	375	27.640	375	27.590	29.460	1.870	SD 420 & SD 415	
		20	JUNCTION PIT	900	900	300	27.849	375	27.774	29.521	1.747	SD 420 & SD 415	
	B CRB					300	27.849	575		23.321	1.7.17		
		21	SIDE ENTRY PIT	900	900	300	28.214	300	28.164	29.663	1.499	SD 430	
						300	28.214						
		22	JUNCTION PIT	900	900			300	28.469	29.791	1.322	SD 420	
0.043 0.0						300	28.519						
0.097 0.15 - 1.37 - 2.2	56 0.097 21	23	SIDE ENTRY PIT	900	900			300	28.324	29.694	1.370	SD 420	
		24	JUNCTION PIT	900	900			300	30.453	31.777	1.324	SD 425	
< 300Ø >< 300						300	30.503						
<1 in 100>< 1 in 1	38.4 -><1 in 100>	25	SIDE ENTRY PIT	900	900			300	29.107	30.539	1.432	SD 430	
18.0 50 50 2 2		26	JUNCTION PIT	600	900			225	23.570	24.693	1.124	SD 425	
1.505 1.455 1.370 1.320	1.505 1.455 1.370	27 29	SIDE ENTRY PIT	900	900 900	300	22.939	300 300	23.733	25.166	1.433 1.517	SD 430 SD 430	
0 2 88 5	+, 00 t- m	29		900	900	300	22.939	500	22.889	24.406	1.51/	טא עכ 450	
24.252 24.398 24.405 24.405 24.420	24.773 24.794 24.908 25.034					225	22.959						
		30	SIDE ENTRY PIT	900	900	300	24.002	300	23.952	25.457	1.505	SD 430	
23.952 24.002 24.087 24.137	24.473 24.523 24.608					300	24.002			,			
		31	SIDE ENTRY PIT	900	900	300	24.566	300	24.516	26.174	1.658	SD 430	
.457	.979	32	SIDE ENTRY PIT		900			300	24.889	26.256		SD 430	
25.	25.		SIDE ENTRY PIT	900	900	225	23.110	300	23.035	24.406	1.371	SD 430	
.762	25.928 26.358	34	JUNCTION PIT	600	900			225	23.475	24.601	1.126	SD 425	
25.		35	JUNCTION PIT	600	900			225	23.779	24.916	1.138	SD 425	
200	076.		SIDE ENTRY PIT		900	300	24.137	300	24.087	25.457	1.370	SD 430	
(8.500) (12.9	21.440 29.940		SIDE ENTRY PIT		900	300	24.523	300	24.473	25.979	1.505	SD 430	
		38	SIDE ENTRY PIT	900	900			300	24.608	25.979	1.370	SD 430	

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### <u>LEGEND</u>

— — — EXISTING SURFACE
DESIGN SURFACE
DRAINAGE PIPE/PIT
— — — EXISTING DRAINAGE

NAGE PIPE/PIT

TING DRAINAGE PIPE/PIT — HYDRAULIC GRADE LINE



**Estuary** Stage 9 City Of Greater Geelong Roadworks and Drainage Drainage Longitudinal Sections - 3 & Pit Schedule

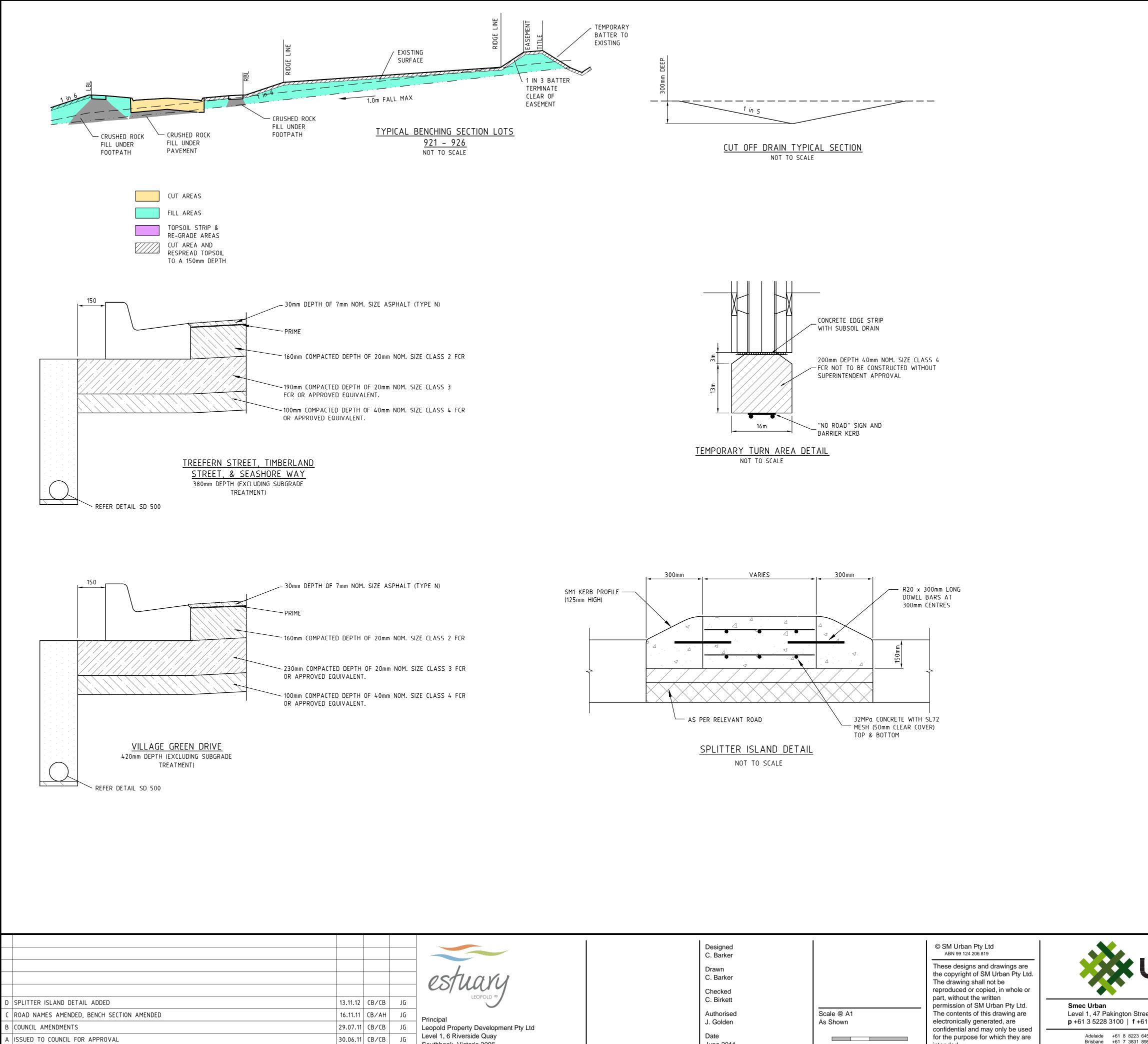
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### Drawing No. 0250EHL-09-19 Sheet No. 19 of 21

Approved for Construction

Rev C



Southbank, Victoria 3006

DATE DES/DFT APP'D

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### Estuary

Stage 9 City Of Greater Geelong Roadworks and Drainage Details

Drawing No. 0250EHL-09-20 Sheet No. 20 of 21

Rev D



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Dai Jur	ate ine 2011	0 5 10 20		Adelaide +61 8 8223 6455 Gold C Brisbane +61 7 3831 8988 Melbou Canberra +61 2 6126 1900 Traralg



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Gold Coast+61755780222Melbourne+61398690800Traralgon+61351730100

**Estuary** Stage 9 City Of Greater Geelong Roadworks and Drainage Subdivision Setout Plan

Drawing No. 0250EHL-09-21 Sheet No. 21 of 21

Rev C

	S S S S S S S S S S S S S S S S S S S S	TORMWATER DRAIN & EWER & MAINTENANC YPE "A" JUMP UP YPE "C" SLIDE LINE BLIQUE JUNCTION YPE "A" SPECIAL YPE "B" SPECIAL XISTING ELECTRICITY XISTING ELECTRICITY XISTING GAS XISTING TELSTRA XISTING STORMWATER XISTING SURFACE LEV INISHED BUILDING LINE INISHED RIDGE LINE L ERMANENT SURVEY N EMPORARY BENCH MA SBESTOS CEMENT AST IRON CEMENT LINE ILD STEEL STEN INT STEEL STEN I	E STRUCTURES (UNDERGROUND) (OVERHEAD) R DRAIN VEL E LEVEL E VEL ARK ARK NED D D D D ECIFIED) SERVICES approximate only and ven on site. ervices are shown. mencement of works OU DIG CONTRACTOR CONTRACTOR COST. 7 TO THE IUST BE GIVEN D BARWON DITOR. CONTRACTORS TRACTOR			24   	- 19.00	506 506 506 506 506 506 507	$     \begin{array}{c}             252268 4 \\             252526 \\             90 \\             5 5 \\             5 5 \\         $	6 FS25.79 FS25.79 FS25.79 FS25.79 FS25.73 FS26.14 FS26.14 FS26.14 FS26.14 FS26.14 FS26.14
	COST. 7 CLEAI THE COMMENCE GIVEN TO THE	R DAYS NOTICE EMENT OF WORI	PRIOR TO S MUST BE NT AND			ا <b>ن</b> اف				
	TBM           R0D501           R0D502           M00LAP           PM321           M00LAP           PM302	EASTING 10106.39 10309.58 1000.00 9897.742000 10212.03 EASTING	NS (HORIZONTAL – AF NORTHING 48560.27 48587.59 50000.00 48994.921 48959.504 SURVEY CONT NORTHING 5768010.27	RL 21.19 28.62 - 9.436 22.180 ROL RL	DESCRIPTION ROD ROD BRASS PLAQUE BRASS PLAQUE BRASS PLAQUE DESCRIPTION		IZE 50	-	SEWER MAINS TYPE TC SN8	LENGTH 53m
	ROD501 ROD502 MOOLAP PM69 MOOLAP PM321 MOOLAP PM302	277245.07 277448.31 277138.66 277040 277310	5768919.27 5768946.60 5770359.31 5769480 5769280	21.19 28.62 - 9.436 22.180	ROD ROD BRASS PLAQUE BRASS PLAQUE BRASS PLAQUE		MH No. F.S.L.	MAIN	LINE No. /	CHAMBER INFORMA DOWNSTREAM INV / UPSTREAM INVE
, ,									_	

					nst
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					Principal
3	BARWON WATER AMENDMENTS	29.08.11	СВ∕СВ	JG	Leopold Prop
١	ISSUED TO BARWON WATER FOR APPROVAL	21.07.11	СВ∕СВ	JG	Level 1, 6 Riv Southbank, V
RE	VISION	DATE	DES/DFT	APP'D	

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			SERVICES OFFSET SCHEDULE								
		ROAD NAM	E	0	iAS	WATER		ELECTRICITY		TELSTRA	
		ROAD NAM	L	SIDE	OFFSET (m)	SIDE	OFFSET (m)	SIDE	OFFSET (m)	SIDE	OFFSET (m
		TREEFERN	STREET E-W	NORTH	2.90	NORTH	3.50	NORTH	2.30	NORTH	1.70
LENGTH		VILLAGE G	REEN DRIVE E-W	NORTH	2.90	NORTH	3.50	NORTH	2.30	NORTH	1.70
53m		TREEFERN	STREET	EAST	2.10	EAST	2.70	EAST	2.30	EAST	1.70
		VILLAGE G	REEN DRIVE	WEST	2.10	WEST	2.70	EAST	2.30	EAST	1.70
		TIMBERLAN	D STREET	NORTH	2.10	NORTH	2.70	SOUTH	2.30	SOUTH	1.70
MBER INFORMATION		SEASHORE	WAY	NORTH	2.90	NORTH	3.50	NORTH	2.30	NORTH	1.70
/NSTREAM INVERT	LINE No. / UPSTREAM INVERT										
	<ul> <li>mains is to be in accordance with the Barwon Water standard specifications</li> <li>"Construction of gravity sewers and rising mains" and "Construction of water mains".</li> <li>Every endeavour to ensure the</li> </ul>	Designed C. Barker Drawn C. Barker			the copyright c The drawing sl	and drawings a of SM Urban Pty hall not be	' Ltd.		kur	consulting g	
	location of all existing services on the plan are correct. However actual	Checked C. Birkett			part, without th						1-
	locations are to be checked on site prior to commencement of excavations.	Authorised	Scale @ A1 1:500		<ul> <li>permission of SM Urban Pty Ltd.</li> <li>The contents of this drawing are electronically generated, are</li> </ul>		ire	Smec Urban           Level 1, 47 Pakington Street, Geelong West, VIC, 3218           p +61 3 5228 3100   f +61 3 5228 3199   www.smu.cd			
3	<ol> <li>Nominal size of water mains indicated in millimetres &amp; offsets are indicated</li> </ol>	J. Golden				generated, are d may only be ເ		<b>p</b> +61 3 5228 310	00   <b>f</b> +61 3 5228	3199   www.sr	

### <u>NOTES</u> <u>GENERAL</u> 1. SEWERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE WATER SERVICES ASSOCIATION OF AUSTRALIA STANDARD CODES (WSA 02-2002 - WSA 03-2002) IN CONJUNCTION WITH BARWON WATERS SUPPLEMENTS TO THE CODES. 2. BARWON WATER AND THE PROJECT MANAGER TO BE NOTIFIED 7 CLEAR WORKING DAYS NOTICE PRIOR TO COMMENCEMENT OF WORKS. 3. THE CONTRACTOR SHALL 3.A. COMPLY WITH SAFETY REQUIREMENTS OF THE MINES ACT, GENERAL REGULATIONS AND STATUTORY RULES, AND THE MINES (TRENCHES) REGULATIONS 1982. NOTIFY THE DEPARTMENT OF LABOUR OF HIS INTENTION TO COMMENCE TRENCHING 3.B. OPERATIONS WHERE TRENCHES ARE 1.5 METRES OR DEEPER. 3.C. INSURE THAT THE MINE MANAGER OR HIS DEPUTY AS REQUIRED BY THE REGULATIONS IS IN ATTENDANCE WHEN TRENCHING OPERATIONS ARE IN PROGRESS. 4. THE CONTRACTOR SHALL MAKE ALL WORKS AVAILABLE FOR THE INSPECTOR/SURVEYOR TO CARRY OUT THE NECESSARY INSPECTIONS AND SURVEYING BEFORE BACKFILLING IS COMMENCED. 5. SERVICES ARE APPROXIMATE ONLY. ALL RELEVANT SERVICE AUTHORITY'S ARE TO BE CONTACTED PRIOR TO THE COMMENCEMENT OF EXCAVATION TO ESTABLISH THEIR EXACT LOCATION. 6. CONTACT PRIOR TO COMMENCEMENT OF WORKS: CITY OF GREATER GEELONG POWERCOR

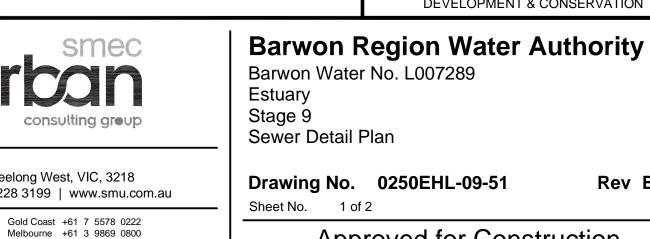
- TELSTRA TRU
- VICTORIAN WORKCOVER AUTHORITY
- 7. ALL SERVICES ARE TO BE LOCATED ON SITE PRIOR TO ANY EXCAVATION.
- 8. INVERT LEVELS OF EXISTING SEWERS AND WATERMAINS TO BE CHECKED PRIOR TO THE COMMENCEMENT OF WORKS. 9. CLASS 2 BACKFILL TO BE USED UNDER DRIVEWAYS FOR WATER AND SEWER RETICULATION.
- 10. PROPERTY OWNERS ARE TO BE NOTIFIED IN WRITING BY THE CONSULTANT 14 CLEAR DAYS PRIOR TO COMMENCEMENT OF WORKS 11. COPY OF CADASTRAL MAP GRID (MGA) CONNECTION & COPY OF AUSTRALIAN HEIGHT DATUM
- (AHD) CONNECTION IS TO BE PROVIDED BY CONTRACTOR 12. WORKS SHALL BE EFFECTED BETWEEN THE HOURS OF 8:00am AND 5:00pm MONDAY -FRIDAY. IN THE EVENT THAT WORKS ARE TO BE EFFECTED OUTSIDE THESE WORKING HOURS, A LETTER REQUESTING APPROVAL FOR SUCH OUT OF HOURS WORK SHALL BE LODGED TO
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- 14. WATER RESTRICTIONS ARE TO APPLY FROM MIDNIGHT JUNE 30th 2006, IN ACCORDANCE WITH BY-LAW NO. 187. ONLY TRIGGER HOSES (MAXIMUM SIZE 25mm) MAY BE USED FOR CONSTRUCTION WORK NOT INCLUDING TRENCHING, UNLESS OTHERWISE EXEMPTED BY THE AUTHORITY IN WRITING. MECHANICAL COMPACTION IS TO BE USED IN ACCORDANCE WITH MRWA SPECIFICATION 04-03 FOR TRENCH WORKS UNTIL FURTHER NOTICE. ANY WATER USED TO FLUSH WATER MAINS IS TO BE RECLAIMED AND USED FOR CONSTRUCTION PURPOSES.

<u>sewer</u> 1. THE CONTRACTOR SHALL CORE CUT ALL HOLES INTO EXISTING PRECAST SEWER

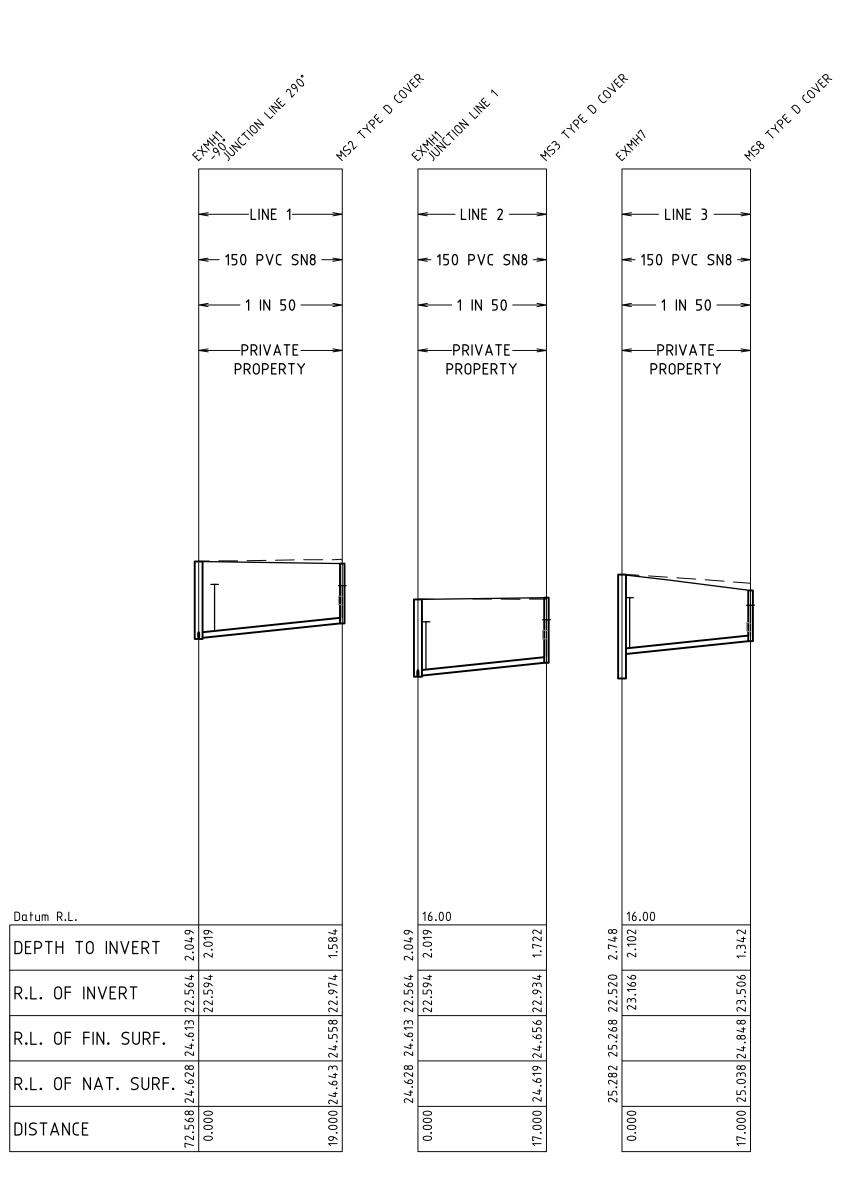
- MAINTENANCE HOLES. ALL FSL'S SHOWN IN MAINTENANCE HOLES INFORMATION BOX ARE TOP OF MANHOLE LEVELS.
- 3. ALL END OF LINES NOMINATED AS TMS ARE TO HAVE A TERMINAL MAINTENANCE SHAFT AS PER BARWON WATER STANDARD DRAWING 70095.
- 4. WHERE FUTURE SEWER MAINS ARE INDICATED A 150mm ACCESS COUPLING AND CAP ARE TO BE PLACED OUT OF THE MANHOLE.
- 5. WARNING; ENTRY INTO ANY MAINTENANCE HOLE IS CONTROLLED BY CONFINED SPACE REGULATIONS BEING "OCCUPATIONAL HEALTH & SAFETY (CONFINED SPACES) REGULATIONS 1996, STATUTORY RULE No 148/1996 AND A.S. 2865 - 1995 SAFE WORKING IN CONFINED SPACES". PERSON(S) REQUIRING ACCESS TO ANY BARWON WATER MANHOLE AS PART OF THE DEVELOPER WORKS PROCESS MUST CONTACT THE SENIOR QUALITY AUDITOR PH (03) 5226 9204 FOR ANY REQUIREMENTS
- DURING THE CONSTRUCTION OF WORKS TO GAIN ACCESS TO A BARWON WATER MANHOLE THE PROCEDURE AS OUTLINED IN THE ATTACHED FLOWCHART IS TO BE FOLLOWED, AND "THE CONFINED SPACE ENTRY PERMIT APPLICATION FORM" (ALSO ATTACHED) IS TO BE COMPLETED AND LODGED WITH THE SENIOR QUALITY AUDITOR 3 (THREE) CLEAR WORKING DAYS PRIOR TO ENTRY. 6. ALL SEWERS ARE TO BE PVC-SN8
- 7. DETECTOR TAPE TO BE PLACED OVER SEWERS AT ALL ROAD CROSSINGS AND ALL CURVED
- SEWER MAINS. 8. BORED SECTIONS OF SEWER TO BE CCTV INSPECTED IN ACCORDANCE WITH BARWON WATER'S
- LAND DEVELOPMENT MANUAL AND SUBMITTED TO BARWON WATER FOR ACCEPTANCE. 9. ALL MANHOLE JOINTS, INCLUDING DROPS TO BE SEALED WITH FERROPRE OR APPROVED
- EQUIVALENT. 10. ALL EXCAVATIONS AROUND A NEWLY CONSTRUCTED MANHOLE TO BE BACKFILLED WITH 3% CEMENT STABILISED SAND.
- <u>SPECIAL</u> 1. TRENCH COMPACTION RESULTS TO BE SUBMITTED BY CONSULTANT WITH 'AS CONSTRUCTED' NOTES.

WORKS SHALL NOT COMMENCE UNTIL PLANS ARE SIGNED BY BARWON WATER

ACCEPTED BY BARWON WATER DEVELOPMENT SERVICES CO-ORDINATOR **DEVELOPMENT & CONSERVATION** 



Rev B



					estuary LEOPOLD ®
					LEOPOLD ®
					Principal
В	BARWON WATER AMENDMENTS	29.08.11	CB/CB	JG	Leopold Property Development Pty Ltd
А	ISSUED TO BARWON WATER FOR APPROVAL	21.07.11	СВ∕СВ	JG	Level 1, 6 Riverside Quay Southbank, Victoria 3006
RE	/ISION	DATE	DES/DFT	APP'D	

LINE NO.	MANHOLE NO.	HC NO.	LOT	ΝΑΜΕ	CONNECTION TYPE
1	E XMH 1	1	LOT	903	В
1	MS2	2	LOT	904	A SPECIAL
2	E XMH 1	3	LOT	902	В
2	MS 3	4	LOT	901	A SPECIAL
3	E XMH 7	5	LOT	906	В
3	M S 8	6	LOT	905	A SPECIAL

Construction Notes 1. Construction of the sewer and water mains is to be in accordance with the	Designed C. Barker		© SM Urban Pty Ltd ABN 99 124 206 819	
<ul> <li>Barwon Water standard specifications</li> <li>"Construction of gravity sewers and rising mains" and "Construction of water mains".</li> <li>Every endeavour to ensure the location of all existing services on the plan are correct. However actual</li> </ul>	Drawn C. Barker Checked		These designs and drawings are the copyright of SM Urban Pty Ltd. The drawing shall not be reproduced or copied, in whole or part, without the written	<b>V</b> UI
locations are to be checked on site prior to commencement of excavations. 3. Nominal size of water mains indicated	C. Birkett Authorised J. Golden	Scale @ A1	permission of SM Urban Pty Ltd. The contents of this drawing are electronically generated, are	Smec Urban Level 1, 47 Pakington Street, Ge p +61 3 5228 3100   f +61 3 522
<ul> <li>in millimetres &amp; offsets are indicated in metres.</li> <li>All sewer pipes are 150Ømm unless otherwise shown.</li> </ul>	Date June 2011	0 5 10 20 0 1 2 4	confidential and may only be used for the purpose for which they are intended.	Adelaide +61 8 8223 6455 Brisbane +61 7 3831 8988 Canberra +61 2 6126 1900

CHAINAGE	IL SEWER	IL BRANCH	BRANCH HEIGHT
2 . 1 1 0 . 0 0 1 . 0 6	22.63 22.97	24.01 23.97	1 . 3 8 1 . 0 0
1.06 0.00 1.00	2 2 . 6 1 2 2 . 9 3 2 3 . 1 8	2 4 . 0 2 2 4 . 0 7 2 4 . 6 6	1.4 1 1.14 1.4 8
0.00	23.51	23.25	0.75

WORKS SHALL NOT COMMENCE UNTIL PLANS ARE SIGNED BY BARWON WATER

ACCEPTED BY BARWON WATER DEVELOPMENT SERVICES CO-ORDINATOR DEVELOPMENT & CONSERVATION



Geelong West, VIC, 3218 5228 3199 | www.smu.com.au

Gold Coast +61 7 5578 0222 Melbourne +61 3 9869 0800 Traralgon +61 3 5173 0100 
 Drawing No.
 0250EHL-09-52

 Sheet No.
 2 of 2

Barwon Water No. L007289

Sewer Longitudinal Sections

Estuary 0250EHL-09

Rev B

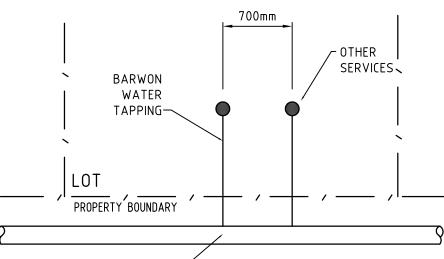
Approved for Construction

**Barwon Region Water Authority** 

LEGEND - W	VATER PLAN
	- STORMWATER DRAIN & PIT
	- WATER MAIN
	- CHANGE OF PIPE SIZE
	- MAINS NOT CONNECTED
	- MAINS IN CONDUIT
———————	- VALVE
—— <u>N</u> ——	- NON RETURN VALVE
•	- FIRE PLUG
	DEAD END CAP
——————————————————————————————————————	- EXISTING ELECTRICITY (UNDERGROUND)
——0∕H E——	- EXISTING ELECTRICITY (OVERHEAD)
——————————————————————————————————————	- EXISTING GAS
——Ex T——	- EXISTING TELSTRA
_	- EXISTING WATER
Ex D	- EXISTING STORMWATER DRAIN
-	- EXISTING SEWER
	EXISTING SURFACE LEVEL
	FINISHED BUILDING LINE LEVEL
	FINISHED RIDGE LINE LEVEL
	PERMANENT SURVEY MARK
	TEMPORARY BENCH MARK
	SWAB DIRECTION
PIPE TYPES	-
AC	ASBESTOS CEMENT
CICL	CAST IRON CEMENT LINED
DICL	DUCTILED CEMENT LINED
MSCL	MILD STEEL CEMENT LINED
PVC	POLYVINAL CHLORIDE
PE RC	POLYETHYLENE (AS SPECIFIED) REINFORCED CONCRETE
RC VC	VITREOUS CLAY
۷L	VIIRLOUS CLAI

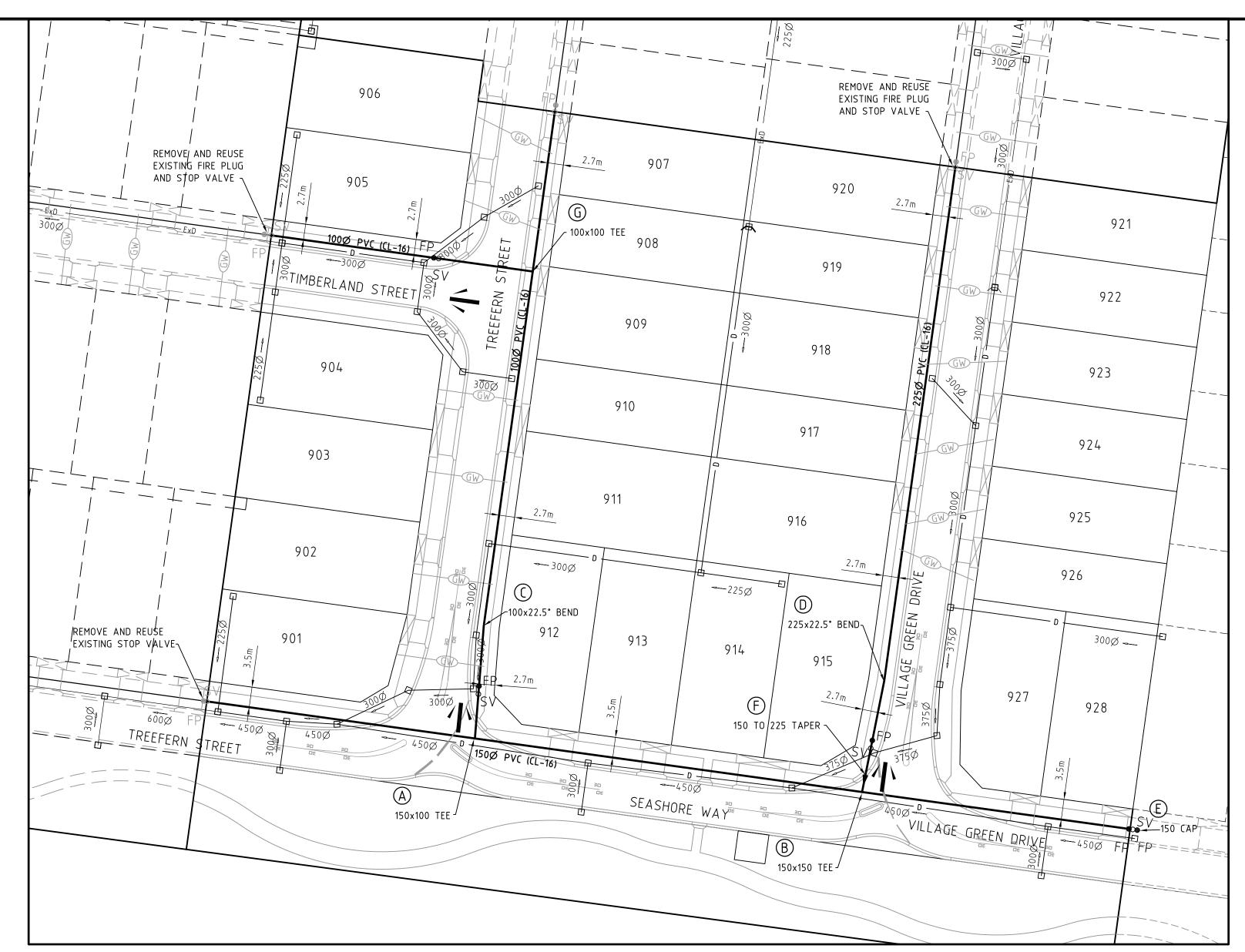
THRUST RESTRAINT SCHEDULE							
	LOCATION	TYPE	AREA (m²)	NUMBER			
Α	SEASHORE WAY	CONCRETE	0.80	1			
В	SEASHORE WAY	CONCRETE	0.80	1			
C	TREEFERN STREET	CONCRETE	0.16	1			
D	VILLAGE GREEN DRIVE	CONCRETE	0.67	1			
E	VILLAGE GREEN DRIVE	CONCRETE	0.80	1			
F	VILLAGE GREEN DRIVE	CONCRETE	0.900	1			
G	TREEFERN STREET	CONCRETE	0.380	1			

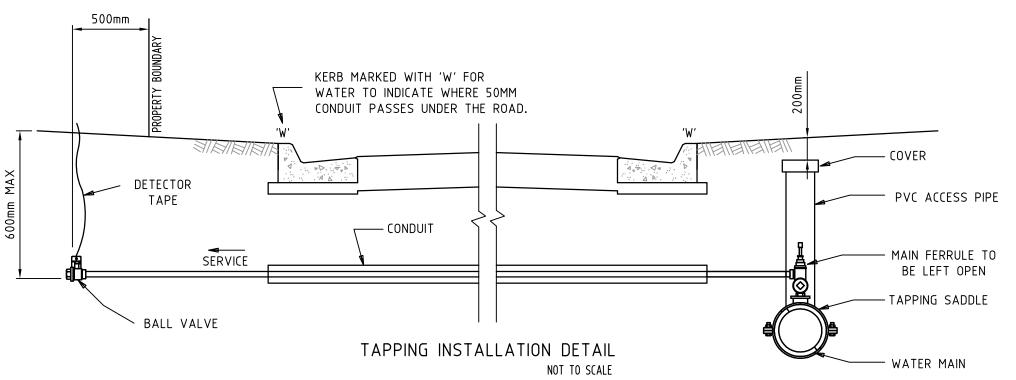
NEW WATER MAINS						
SIZE	TYPE	LENGTH				
100	PVC (CL-16)	153.8m				
150	PVC (CL-16)	160m				
225	PVC (CL-16)	108.5m				



BARWON WATER MAIN-

TAPPING OFFSET DETAIL NOT TO SCALE





SURVEY STATIONS (HORIZONTAL – ARBITARY, VERTICAL – AHD)							
ТВМ	EASTING	NORTHING	RL	DESCRIPTION			
R0D501	10106.39	48560.27	21.19	ROD			
ROD502	10309.58	48587.59	28.62	ROD			
MOOLAP PM69	1000.00	50000.00	-	BRASS PLAQUE			
MOOLAP PM321	9897.742000	48994.921	9.436	BRASS PLAQUE			
MOOLAP PM302	10212.03	48959.504	22.180	BRASS PLAQUE			

SURVEY CONTROL							
TBM	EASTING	NORTHING	RL	DESCRIPTION			
ROD501	277245.07	5768919.27	21.19	ROD			
ROD502	277448.31	5768946.60	28.62	ROD			
MOOLAP PM69	277138.66	5770359.31	_	BRASS PLAQUE			
MOOLAP PM321	277040	5769480	9.436	BRASS PLAQUE			
MOOLAP PM302	277310	5769280	22.180	BRASS PLAQUE			

					_
					K
					Prin
З	BARWON WATER AMENDMENTS	01.09.11	CB/CB	JG	Leop
4	ISSUED TO BARWON WATER FOR APPROVAL	21.07.11	CB/CB	JG	Leve Sou
RE	VISION	DATE	DES/DFT	APP'D	

### WARNING

BEWARE OF UNDERGROUND SERVICES The locations of underground services are approximate on their exact position should be proven on site. No guarantee is given that all existing services are show Locate all underground services before commencement of DIAL 1100 BEFORE YOU DIG www.1100.com.au

incipa opold Property Development Pty Ltd evel 1, 6 Riverside Quay outhbank, Victoria 3006

- 1. ALL LOTS ARE TO BE TAPPED USING A TAPPING SADDLE AND PRESSURE FERRULE.
- 2. A MINIMUM SIZE SERVICE (IE 20MM COPPER, 25MM PE) IS THEN TO BE EXTENDED TO A POINT 500MM WITHIN THE PROPERTY.
- 3. SERVICE PIPE BETWEEN MAIN FERRULE AND BALL VALVE TO BE A CONTINUOUS LENGTH (IE NO JOINS)
- SERVICE TO BE TYPE 'B' COPPER OR CLASS 12 TYPE 50 PE. 5. IN THE CASE OF PE OR ANY OTHER NON-METALLIC SERVICE BEING INSTALLED, A COPPER TRACE WIRE IS TO BE INCORPORATED. A BURIED BALL VALVE IS TO BE PLACED AT THE END OF THE SERVICE.
- DETECTOR TAPE IS TO BE RUN TO SURFACE LEVEL. 8. BALL VALVE TO BE IN ACCORDANCE WITH AUSTRALIAN STANDARDS (IE STAMPED 'W') BRASS FITTING WITH STAINLESS STEEL BALL.

				SERVICES OFF	SET SCHEDULE					
	ROAD NAME		GAS	TER ELECTRICITY		[RICITY	TELSTRA			
	ROAD NAME	SIDE	OFFSET (m)	SIDE	OFFSET (m)	SIDE	OFFSET (m)	SIDE	OFFSET (m)	
	TREEFERN STREET E-W	NORTH	2.90	NORTH	3.50	NORTH	2.30	NORTH	1.70	
only and	VILLAGE GREEN DRIVE E-W	NORTH	2.90	NORTH	3.50	NORTH	2.30	NORTH	1.70	-
	TREEFERN STREET	EAST	2.10	EAST	2.70	EAST	2.30	EAST	1.70	
hown.	VILLAGE GREEN DRIVE	WEST	2.10	WEST	2.70	EAST	2.30	EAST	1.70	
of works	TIMBERLAND STREET	NORTH	2.10	NORTH	2.70	SOUTH	2.30	SOUTH	1.70	
	SEASHORE WAY	NORTH	2.90	NORTH	3.50	NORTH	2.30	NORTH	1.70	-
	<ol> <li>Construction of the sewer and water mains is to be in accordance with the Barwon Water standard specifications "Construction of gravity sewers and rising mains" and "Construction of water mains".</li> <li>Every endeavour to ensure the location of all existing services on the plan are correct. However actual</li> <li>Designed C. Barker</li> <li>Drawn C. Barker</li> <li>Drawn C. Barker</li> </ol>				ABN 99 124 206 819 These designs and drawings are the copyright of SM Urban Pty Ltd. The drawing shall not be reproduced or copied, in whole or part, without the written		ty Ltd.			
2.							le or			001

### DESIGN HEAD=111.9m AHD TEST PRESSURE=1600kPa

### <u>NOTES</u> <u>GENERAL</u>

- 1. SEWERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE WATER SERVICES ASSOCIATION OF AUSTRALIA STANDARD CODES (WSA 02-2002 - WSA 03-2002) IN CONJUNCTION WITH BARWON WATERS SUPPLEMENTS TO THE CODES. 2. BARWON WATER AND THE PROJECT MANAGER TO BE NOTIFIED 7 CLEAR
- WORKING DAYS NOTICE PRIOR TO COMMENCEMENT OF WORKS.
- 3. THE CONTRACTOR SHALL
- 3.A. COMPLY WITH SAFETY REQUIREMENTS OF THE MINES ACT, GENERAL REGULATIONS AND STATUTORY RULES, AND THE MINES (TRENCHES) REGULATIONS 1982.
- 3.B. NOTIFY THE DEPARTMENT OF LABOUR OF HIS INTENTION TO COMMENCE TRENCHING OPERATIONS WHERE TRENCHES ARE 1.5 METRES OR DEEPER. 3.C. INSURE THAT THE MINE MANAGER OR HIS DEPUTY AS REQUIRED BY THE REGULATIONS IS IN ATTENDANCE WHEN TRENCHING OPERATIONS ARE IN PROGRESS.
- 4. THE CONTRACTOR SHALL MAKE ALL WORKS AVAILABLE FOR THE INSPECTOR/SURVEYOR TO CARRY OUT THE NECESSARY INSPECTIONS AND
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- 6. CONTACT PRIOR TO COMMENCEMENT OF WORKS:
- CITY OF GREATER GEELONG
- POWERCOR TELSTRA
- TRU
- VICTORIAN WORKCOVER AUTHORITY
- 7. ALL SERVICES ARE TO BE LOCATED ON SITE PRIOR TO ANY EXCAVATION. 8. INVERT LEVELS OF EXISTING SEWERS AND WATERMAINS TO BE CHECKED PRIOR TO THE COMMENCEMENT OF WORKS.
- 9. CLASS 2 BACKFILL TO BE USED UNDER DRIVEWAYS FOR WATER AND SEWER RETICULATION.
- 10. PROPERTY OWNERS ARE TO BE NOTIFIED IN WRITING BY THE CONSULTANT 14 CLEAR DAYS PRIOR TO COMMENCEMENT OF WORKS 11. COPY OF CADASTRAL MAP GRID (MGA) CONNECTION & COPY OF AUSTRALIAN
- HEIGHT DATUM (AHD) CONNECTION IS TO BE PROVIDED BY CONTRACTOR 12. WORKS SHALL BE EFFECTED BETWEEN THE HOURS OF 8:00am AND 5:00pm MONDAY - FRIDAY. IN THE EVENT THAT WORKS ARE TO BE EFFECTED OUTSIDE THESE WORKING HOURS, A LETTER REQUESTING APPROVAL FOR SUCH OUT OF
- HOURS WORK SHALL BE LODGED TO THE SENIOR QUALITY AUDITOR. 13. THE CONTRACTOR SHALL COMPLY WITH SAFETY REQUIREMENTS RELATING TO WORKING NEAR POWER LINES AS SET BY THE CHIEF ELECTRICAL INSPECTOR
- WHERE NECESSARY AN ACCREDITED TRAINED SPOTTER IS TO BE PROVIDED. 14. WATER RESTRICTIONS ARE TO APPLY FROM MIDNIGHT JUNE 30th 2006, IN ACCORDANCE WITH BY-LAW NO. 187. ONLY TRIGGER HOSES (MAXIMUM SIZE 25mm) MAY BE USED FOR CONSTRUCTION WORK NOT INCLUDING TRENCHING, UNLESS OTHERWISE EXEMPTED BY THE AUTHORITY IN WRITING. MECHANICAL COMPACTION IS TO BE USED IN ACCORDANCE WITH MRWA SPECIFICATION 04-03 FOR TRENCH WORKS UNTIL FURTHER NOTICE. ANY WATER USED TO FLUSH WATER MAINS IS TO BE RECLAIMED AND USED FOR CONSTRUCTION PURPOSES. WATER
- 1. ENSURE WATERMAINS ARE GRADED TO SUFFICIENT DEPTH UNDER ROADWAYS TO OBTAIN REQUIRED CLEARANCE UNDER STORM WATER DRAINS AND PAVEMENT LEVELS.
- 2. MARKER POSTS TO BE PLACED AT FIRE PLUGS. FIRE PLUG INDICATORS ARE TO BE IN ACCORDANCE WITH CFA & WSAA REQUIREMENTS.
- 3. ALL ALLOTMENTS ARE TO BE PROVIDED WITH A WATER SERVICE AS PART OF WATER RETICULATION WORKS. THE WATER MAIN IS TO BE TAPPED USING A TAPPING SADDLE AND PRESSURE FERRULE (FERRULE TO BE LEFT OPEN). A MINIMUM SIZE SERVICE (i.e. 20mm COPPER, 25mm PE) IS THEN TO BE EXTENDED TO A POINT 500mm WITHIN THE PROPERTY. THE SERVICE IS TO BE A CONTINUOUS LENGTH WITH NO JOINTS. IN THE CASE OF PE OR ANY OTHER NON-METALLIC SERVICE BEING INSTALLED, A COPPER TRACE WIRE IS TO BE INCORPORATED. A BURIED BALL VALVE IS TO BE PLACED AT THE END OF THE SERVICE AND BACKFILLED WITH SAND TO DESIGN SURFACE LEVEL. DETECTOR TAPE FROM BALL VALVE TO BE RUN TO SURFACE LEVEL.
- 4. PE PIPE TO BE LAID IN ACCORDANCE WITH WSA-01 WITH LONG RADIUS BENDS OR DEFLECTION ONLY. NO COMPRESSION BENDS TO BE USED. 5. <u>AC PIPE NOTE</u>
- ANY WORK INVOLVING THE REMOVAL (CUTTING AND HANDLING). STORAGE. TRANSPORTATION AND DISPOSAL OF WASTE ASBESTOS CEMENT (AC) PIPES MUST BE CARRIED OUT IN ACCORDANCE WITH THE OCCUPATIONAL, HEALTH AND SAFETY (ASBESTOS) REGULATIONS 1992 AND RELEVANT CODES OF PRACTICE (REMOVAL), THE ENVIRONMENT PROTECTION (PRESCRIBED WASTE) REGULATIONS 1998 (STORAGE, TRANSPORTATION AND DISPOSAL), AND BARWON WATER'S SAFETY MANAGEMENT SYSTEM "SAFEAS".
- 6. FITZROY BOXES ARE TO BE PLACED OVER MONT TAP (MT) OR ANY TAPPING LOCATED WITHIN THE ROAD PAVEMENT.
- 7. THRUST BLOCKS ARE TO BE CONSTRUCTED AS PER BARWON WATER STANDARD DRAWING No'S 70104, 70105 AND 70106
- 8. SWABBING OF WATER MAINS IS TO BE DONE IN ACCORDANCE WITH SECTION 6.7 AND SECTION 18 OF WSAA WATER SUPPLY CODE OF AUSTRALIA WSA 03-2002 MRWA EDITION 1 9. ALL WATER MAINS MUST BE HYDROSTATIC PRESSURE TESTED IN ACCORDANCE
- WITH SECTION 19.4 OF WSAA WATER SUPPLY CODE OF AUSTRALIA WSA 03-2002 MRWA EDITION 1.0. THE CONTRACTOR MUST BE GIVE BARWON WATER THREE WORKING DAYS NOTICE IN WRITING OF THE DATE AND TIME OF THE PROPOSED HYDROSTATIC PRESSURE TESTING TO ENSURE THAT BARWON WATER HAS THE OPPORTUNITY TO WITNESS THESE TESTS.
- <u>SPECIAL</u> 1. TRENCH COMPACTION RESULTS TO BE SUBMITTED BY CONSULTANT WITH 'AS CONSTRUCTED' NOTES.

