

Kingston Downs Estate - Stage 32

Ocean Grove

NOTES:

- 1
- ALL WORKS IN THIS CONTRACT ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT CITY OF GREATER GEELONG (COGG) STANDARD SPECIFICATIONS FOR ROADWORKS AND DRAINAGE.

- 2
- ALL ROADWORKS SIGNAGE IS TO BE IN ACCORDANCE WITH VICROADS WORKSITE TRAFFIC MANAGEMENT CODE OF PRACTISE INCORPORATING AS1742.3.

SITE MANAGEMENT:

- 3
- ALL WORKS ARE TO BE UNDERTAKEN IN ACCORDANCE WITH THE APPROVED CONSTRUCTION MANAGEMENT PLAN.
- 4
- ALL TREES, SHRUB etc. ARE TO BE RETAINED UNLESS OTHERWISE INDICATED.
- 5
- DURING THE CONSTRUCTION AND MAINTENANCE PERIOD SILT FENCES ARE TO BE PLACED DOWNSTREAM OF ALL EXPOSED AREAS, AND SILT BARRIERS ARE TO BE PLACED UPSTREAM OF ALL PITS. THE SILT FENCES AND SILT BARRIERS ARE TO BE CHECKED AND MAINTAINED UNTIL THE END OF THE MAINTENANCE PERIOD.
- 6
- ALL AREAS OF THE SUBDIVISION EXPOSED OF VEGETATION, INCLUDING NATURESTRIPS, LOTS AND RESERVE ARE TO BE FULLY GRASSED BY HYDRO MULCHING, WATERED AND MAINTAINED UNTIL THE END OF THE MAINTENANCE PERIOD.

GENERAL:

- 7
- THE CONTRACTOR SHALL:

a)

GIVE 48 HOURS NOTICE IN WRITING TO COGG SUBDIVISIONS ENGINEER OR REPRESENTATIVE PRIOR TO THE COMMENCEMENT OF WORKS.

b)

NOTIFY COGG SUBDIVISIONS ENGINEER OR REPRESENTATIVE 24 HOURS PRIOR TO WORKING ON ANY WEEKEND.

c)

BE FULLY AWARE OF ALL SITE CONDITIONS PRIOR TO TENDERING.

d)

BE RESPONSIBLE FOR LOCATING ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF WORKS AND SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE SERVICES.

e)

BE RESPONSIBLE FOR THE INSTALLATION OF ALL SERVICES REQUIRED FOR THE PROJECT.

f)

ENSURE THAT ALL SERVICES ARE INSTALLED TO THE SPECIFIED OFFSETS AND MEETS MINIMUM COVER REQUIREMENTS. ALL SURFACE FIXTURES, PITS VALVES, FIREPLUGS, etc. SHALL BE INSTALLED A MINIMUM OF 5m FROM ANY SIDE BOUNDARY AND SHALL MATCH THE REQUIRED FINISHED SURFACE LEVEL. THIS APPLIES TO ALL SERVICES REQUIRED FOR THE PROJECT IRRESPECTIVE IF THEY ARE INSTALLED BY THE CONTRACTOR OR OTHERWISE.

g)

COMPLY WITH THE REQUIREMENTS OF THE MINES ACT 1958 AND RELEVANT REGULATIONS INCLUDING NOTIFICATION IN WRITING (CLAUSE 385) TO THE CHIEF MINING INSPECTOR OF THE INTENTION TO COMMENCE EXCAVATION OPERATIONS WHERE ANY TRENCH IS 15m OR MORE IN DEPTH.

h)

GIVE 24 HOURS NOTICE TO COGG SUBDIVISIONS ENGINEER OR REPRESENTATIVE PRIOR TO BACKFILLING OF ANY PIPE TRENCHES OR LAYING OF ANY PAVEMENT OR CONCRETE WORKS SO THAT THE WORKS CAN BE CHECKED AND APPROVED.

i)

COMPLY WITH THE OCCUPATIONAL HEALTH AND SAFETY (CONFIED SPACES) REGULATIONS AND CODE OF PRACTICE FOR CONFINED SPACES.

j)

BE RESPONSIBLE FOR THE COMPACTION TESTING OF THE PAVEMENT MATERIAL BY AN APPROVED GEOTECHNICAL CONSULTANT AS AND WHEN DIRECTED BY COGG SUBDIVISIONS ENGINEER OR REPRESENTATIVE.

8

EXISTING CONSTRUCTION WORKS ARE TO BE CHECKED BY COUNCIL 48hrs PRIOR TO COMMENCEMENT OF ANY FUTURE PAVEMENT WORKS. IF REMEDIAL WORKS ARE NECESSARY TO ENSURE SATISFACTORY CONNECTION, THESE ARE TO BE CARRIED OUT AT THE DEVELOPER'S EXPENSE. AT THE SAME INSPECTION DAMAGE TO EXISTING WORKS WILL BE DETERMINED, OTHERWISE THE CONTRACTOR WILL BE HELD LIABLE.


9

ANY WORKS WITHIN ROADWAYS SHALL SATISFY COUNCIL'S "REQUIREMENTS FOR OCCUPANCY OF ROAD RESERVE". CONTACT COGG TRAFFIC MANAGEMENT OFFICER ON TELEPHONE (03) 5227 0384 FOR FURTHER SPECIFIC DETAILS RELATING TO THIS PROJECT. A COPY OF THE TRAFFIC MANAGEMENT PLAN IS TO BE FORWARDED TO THE COGG SUBDIVISIONS ENGINEER OR REPRESENTATIVE PRIOR TO WORKS COMMENCING.

10

ALL REASONABLE CARE SHALL BE TAKEN BY THE CONTRACTOR TO PRESERVE THE SURVEY PEGS AND ALL BENCHMARKS ARE TO BE CHECKED PRIOR TO THE COMMENCEMENT OF WORKS AND ANY DISCREPANCIES ARE TO BE REPORTED IMMEDIATELY.

11

EXISTING SURFACE LEVELS ARE SHOWN THUS: 

12

ALL DIMENSIONS ARE IN METRES AND LEVELS ARE TO AUSTRALIAN HEIGHT DATUM (AHD).

ROADWORKS:

- 13
- SUBSOIL DRAINS ARE TO BE CONSTRUCTED BEHIND THE KERB AND CHANNEL OR AS DIRECTED BY THE COGG SUBDIVISIONS ENGINEER OR REPRESENTATIVE.
- 14
- WHERE DRAINAGE LINES EXIST BEHIND THE KERB AND CHANNEL SUBSOIL DRAINAGE IS NOT REQUIRED HOWEVER A 1m LENGTH OF SUBSOIL DRAIN INCLUDING FILTER SOCK IS REQUIRED BOTH SIDES OF DRAINAGE PITS.
- 15
- ALL FOOTPATHS ARE TO BE A MINIMUM OF 125mm THICK WITH F72 REINFORCEMENT AND BEDDED ON A MINIMUM OF 50mm COMPACTED CLASS 3 FCR WITH THE BEDDING TO EXTEND 100mm BEYOND THE EDGES OF THE PROPOSED FOOTPATH PRIOR TO THE PLACEMENT OF THE TIMBERS AND BOARDS. CONTRACTION JOINTS ARE TO BE CONSTRUCTED AT 12.5m INTERVALS IN ACCORDANCE WITH COGG STANDARD DRAWINGS.
- 16
- WHERE FILLING IS REQUIRED UNDER THE FOOTPATH BEDDING MATERIAL THEN CLASS 4 FCR IS TO BE USED UNLESS OTHERWISE APPROVED BY THE COGG SUBDIVISIONS ENGINEER.
- 17
- CONCRETE FOR KERB AND CHANNEL USED IN EXTRUSION MACHINES SHALL HAVE A MINIMUM CEMENT CONTENT OF 280 kg/m3.
- 18
- CONCRETE FOR STORMWATER PITS IS TO HAVE A MINIMUM STRENGTH OF 32Mpa AT 28 DAYS.
- 19
- CONCRETE FOR ALL OTHER APPLICATIONS IS TO HAVE A MINIMUM STRENGTH OF 25Mpa AT 28 DAYS.
- 20
- TO ALLOW FOR A CONTINUOUS CONCRETE KERB AND CHANNEL POUR THE STORMWATER PIT CONCRETE SURROUND IS TO BE IN PLACE PRIOR TO THE POUR COMMENCING. IF THE PIT SURROUNDS ARE NOT IN PLACE THEN THE INITIAL KERB AND CHANNEL POUR IS TO STOP ONE (1) METRE EITHER SIDE OF EVERY PIT.
- 21
- CLAY SURFACES, INCLUDING NATURE STRIPS, EXPOSED DUE TO CUT AND FILL ARE TO BE COVERED WITH 100mm OF THE BEST APPROVED TOPSOIL MATERIAL AVAILABLE FROM SITE.
- 22
- ALL FILLING PLACED IS TO BE CARRIED OUT UNDER LEVEL 1 SUPERVISION IN ACCORDANCE WITH AS3798-2007. PRIOR TO ANY FILLING ON LOTS ALL TOPSOIL IS TO BE REMOVED AND STOCKPILED. THE FILL MUST BE APPROVED AND CONSOLIDATED IN 150mm COMPACTED LAYERS TO A DRY DENSITY OF 95% STANDARD COMPACTION. THE TOPSOIL IS THEN TO BE UNIFORMLY REPLACED TO A COMPACTED DEPTH OF 100mm. COMPACTION TESTING WILL BE REQUIRED AT THE DISCRETION OF THE COGG SUBDIVISIONS ENGINEER OR REPRESENTATIVE.
- 23
- ALLOTMENTS SHALL BE GRADED TO AN EVEN SURFACE AT THE COMPLETION OF ALL WORKS AND SHALL HAVE A MINIMUM GRADE OF 1 IN 100 TO THEIR NOMINATED DRAINAGE CONNECTION POINTS. ALL SURPLUS SPOIL, BOXTHORN, FENCING, CONSTRUCTION WASTE AND OTHER RUBBISH SHALL BE REMOVED FROM SITE AT THE COMPLETION OF WORKS.
- 24
- BATTER SLOPES ON LOTS SHALL BE A MAXIMUM OF 1 IN 5 FOR FILL AND 1 IN 3 FOR CUT UNLESS OTHERWISE SHOWN.
- 25
- AS PART OF CIVIL WORKS, ROUNDED-TOPPED TREATED PINE BOLLARDS (0.6m HIGH) ARE TO BE PLACED ACROSS THE FRONTAGES OF RESERVE 1 AND 2 AT 15m CENTRES WITH A LOCKED/REMOVABLE BOLLARD CENTRAL TO THE PATH FOR MAINTENANCE ACCESS (REFER TO COUNCIL STANDARD DRAWING CGG701).
- AS PART OF LANDSCAPING WORKS, RECTANGULAR POST AND RAIL FENCING IS TO BE CONSTRUCTED ACROSS THE FRONTAGES OF COUNCIL BASIN RESERVE BOUNDARIES CONSISTING OF WHITE CYPRESS POST AND RAIL FENCING (1.2m HIGH), HARVESTED FROM SUSTAINABLE FOREST (REFER TO COUNCIL STANDARD DRAWING CGG709). A DEMOUNTABLE SECTION FOR VEHICLE ACCESS MUST BE INSTALLED WITHIN THE POST AND RAIL FENCING TO COUNCIL STANDARDS (REFER TO COUNCIL STANDARD DRAWINGS CGG702 & 703).




PRIOR TO HANDOVER, COUNCIL STANDARD D200 LOCKS ARE TO BE SUPPLIED AND FITTED BY THE CONTRACTOR TO ALL GATES , GRILLES, VALVES AND REMOVABLE BOLLARDS etc. AS REQUIRED.

- 26
- 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.
- 27
- 'NO THROUGH ROAD' SIGN IS TO BE INSTALLED BELOW THE STREET SIGN WHERE APPLICABLE.
- 28
- ALL REINFORCEMENT USED IN CONCRETE WORKS FOR FOOTPATH DRIVEWAYS AND ROADS IS TO BE ADEQUATELY SUPPORTED BY APPROPRIATE SIZED BAR CHAIRS PRIOR TO THE POURING/PLACEMENT OF CONCRETE.
- 29
- GAS CONDUITS ARE 50mm HEAVY DUTY PVC AND ARE TO EXTEND FROM THE POINT OF SUPPLY TO AT LEAST 500mm BEYOND THE PROPERTY BOUNDARY.
- 30
- AT THE TERMINATION OF STAGED PAVEMENT CONSTRUCTION, A CONCRETE EDGE STRIP 200mm X 200mm AND SUBSOIL DRAIN IS TO BE INSTALLED ACROSS THE WIDTH OF THE PAVEMENT AND A 'NO THROUGH ROAD' AND CHEVRON MARKER SIGNS ARE TO BE INSTALLED ACROSS THE FULL WIDTH OF THE ROAD RESERVE. APPROPRIATE RETAINING WALLS AND FENCING IS TO BE PROVIDED AS DIRECTED BY COGG SUBDIVISIONS ENGINEER OR REPRESENTATIVE.

- 31
- WHERE LINE MARKING NEEDS TO BE REMOVED, THESE LINES ARE TO BE PERMANENTLY REMOVED EITHER BY GRINDING THE OLD LINES OFF OR BY PLACING A SEAL AND GRIT TREATMENT (USING THE 'FLOCON' SYSTEM) OVER THE UNWANTED LINES.

- 32
- LOT NUMBERS SHALL BE STENCILLED IN 50mm HIGH FIGURES WITH WHITE PAINT ON THE FACE OF THE KERB AND CHANNEL.

DRAINAGE:

- 33
- PIPE DRAINAGE WITHIN ROADWAYS TO BE REINFORCED CONCRETE PIPES - CLASS 2 UNLESS OTHERWISE SHOWN.
- 34
- ALL REINFORCED CONCRETE PIPES ARE TO BE RUBBER RING JOINTED.
- 35
- PIPES IN EASEMENTS ARE TO BE RUBBER RING JOINTED OR UPVC SEWER CLASS (SH UPVC UP TO 3.0m DEPTH OR SEH UPVC GREATER THAN 3.0m DEPTH) PIPES WITH SOLVENT CEMENT JOINTS. TRENCHES ARE TO BE BACKFILLED WITH COMPACTED CLAY UNLESS OTHERWISE SHOWN.
- 36
- ALL DRAINAGE PITS IN COUNCIL ROAD RESERVES, DRAINAGE RESERVES AND RECREATION RESERVES ARE TO HAVE LIDS THAT ARE, AT LEAST CLASS D (HEAVY DUTY) IN ACCORDANCE WITH AUSTRALIAN STANDARD AS3996.
- 37
- ALL PITS ARE TO BE SET OUT FROM SURVEY CO-ORDINATES USING SET OUT POINTS DETAILED IN THE COGG STANDARD DRAWINGS.
- 38
- ALL PIPES UNDER ROADS, FOOTPATHS, DRIVEWAYS AND BEHIND BACK OF KERB SHALL BE BACKFILLED WITH 20mm NOMINAL SIZE CLASS 3 FCR (WETMX) COMPACTED TO 95% MODIFIED COMPACTION IN 150mm MAXIMUM LAYERS.
- 39
- PIPE BEDDING UNDER ROAD PAVEMENTS FROM THE BOTTOM OF PIPE TO THE SPRINGLINE IS TO BE 2% STABILIZED SAND. CLASS 3 FCR IS TO BE PLACED FROM THE SPRINGLINE TO SUBBASE MATERIAL.
- 40
- PIPEWORK AT ALL PITS TO BE WELL ALIGNED TO ENSURE FLOW IS GUIDED TO OUTLET PIPE eg.  NOT 
- 41
- ALL PIPELINES ARE TO BE INSPECTED VIA REMOTE CAMERA PRIOR TO THE ISSUANCE OF A STATEMENT OF COMPLIANCE AT THE CONTRACTOR'S EXPENSE AND UNDER THE SUPERVISION OF COGG SUBDIVISIONS ENGINEER OR REPRESENTATIVE.
- 42
- PROPERTY INLET PITS ARE SHOWN THUS:  AND ARE TO BE LOCATED 1m FROM THE LOW CORNER UNLESS OTHERWISE SHOWN.
- 43
- LOTS DENOTED THUS: 34.0^H ARE TO BE PROVIDED WITH A 100mm DIAMETER CLASS 6 PVC SOCKETED PIPE HOUSE DRAIN LOCATED 6.0m FROM THE LOW CORNER OF THE LOT UNLESS OTHERWISE SHOWN AND SHALL BE CONNECTED DIRECTLY TO UNDERGROUND DRAINS WHERE AVAILABLE.
- 44
- HOUSE DRAINS ARE TO BE A MINIMUM OF 0.5m BELOW FINISHED SURFACE AT THE LOT BOUNDARY UNLESS OTHERWISE SHOWN.
- 45
- EASEMENT DRAIN CONNECTION TO BE A MINIMUM OF 0.5m BELOW FINISHED SURFACE UNLESS OTHERWISE SHOWN.
- 46
- WHEN USING 150mm DIAMETER UPVC PIPES ALL HOUSE DRAINS ARE TO BE CONNECTED USING STANDARD T-PIECE FITTINGS.
- 47
- WHEN USING 225mm DIAMETER OR LARGER UPVC PIPES, HOUSE DRAINS ARE TO BE CONNECTED IN A SIMILAR WAY TO CONCRETE PIPES SUBJECT TO THE INLET BEING CORE DRILLED.
- 48
- WATER AND GAS SERVICE CONDUITS SHALL BE LOCATED CLEAT OF ALL DRIVEWAY CROSSINGS AND SHALL EXTEND FROM THE POINT OF SUPPLY TO AT LEAST 500mm INSIDE THE HOUSE LOT TO BE SERVICED AND LEFT EXPOSED UNTIL INSPECTED BY COGG SUBDIVISIONS ENGINEER. WATER CONDUITS ARE TO BE LOCATED AT LEAST 5m FROM SIDE BOUNDARY, WHEREAS GAS CONDUITS ARE TO BE LOCATED 2m FROM "NON-DRIVEWAY" SIDE BOUNDARY OF LOT TO BE SERVICED. CONDUIT TRENCHES ARE TO BE BACKFILLED WITH CLASS 3 FCR.
- 49
- THE LOCATION OF HOUSE DRAINS (H) AND SERVICE CONDUITS (W, G, T AND E) ARE TO BE NEATLY ETCHED ON THE KERB FACE WITH 50mm HIGH LETTERS.
- 50
- IN ROAD RESERVE EXISTING OPEN DRAINS ARE TO BE CLEANED OUT TO AND APPROVED BASE AND ANY SPOIL IS TO BE REMOVED FROM THE SITE. STRUCTURAL FILL (CLASS 4 MINIMUM) IS TO BE PLACED IN NOT MORE THAN 150mm LAYERS AND COMPACTED TO A MINIMUM OF 98% STANDARD COMPACTION. COMPACTION TESTS ARE TO BE PROVIDED TO THE SATISFACTION OF COGG SUBDIVISIONS ENGINEER OR REPRESENTATIVE.
- 51
- WHERE DRAINAGE PITS ARE LESS THAN 1200mm DEEP NO HAUNCHING IS REQUIRED (REFER TO SD00302). WHERE DRAINAGE PITS ARE GREATER THAN 1200mm DEEP THEY WILL REQUIRE HAUNCHING TO FORM 900mm MIN WIDE BASE (REFER SD00301). IN THIS INSTANCE PARTICULAR NOTE OF WALL THICKNESSES IS TO BE MADE AND ADHERED TO.


SHEET INDEX

SHEET No.	DESCRIPTION
1	GENERAL NOTES.
2	FACEPLAN AND SERVICES SCHEDULE.
3	FACEPLAN AND SERVICES SCHEDULE.
4	COASTAL BOULEVARD LONGITUDINAL SECTION.
5	COASTAL BOULEVARD CROSS SECTIONS (CH139.66-CH200).
6	COASTAL BOULEVARD CROSS SECTIONS (CH223.45-CH266.46).
7	COASTAL BOULEVARD CROSS SECTIONS (CH284.68-CH395.79).
8	PARKSIDE BOULEVARD LONGITUDINAL SECTION.
9	PARKSIDE BOULEVARD CROSS SECTIONS.
10	SHELBURN WAY LONGITUDINAL SECTION.
11	SHELBURN WAY CROSS SECTIONS (CH184.3-CH127.04).

SHEET No.	DESCRIPTION
12	SHELBURN WAY CROSS SECTIONS (CH150.25-CH213.65).
13	IRONWOOD COURT LONGITUDINAL SECTION & CROSS SECTIONS.
14	JANELLE WAY LONGITUDINAL SECTION.
15	JANELLE WAY CROSS SECTIONS (CH00-CH140.00).
16	JANELLE WAY CROSS SECTIONS (CH160.99-CH283.55).
17	COASTAL BOULEVARD DETAIL (CH125.38-CH261.80) @ (1:200).
18	COASTAL BOULEVARD/ROUNDABOUT DETAIL (CH261.80-CH359.67) - (1:200).
19	INTERSECTION DETAILS - (1:125) AND CURVE SETOUT TABLES.
20	INTERSECTION DETAILS - (1:125) AND CURVE SETOUT TABLES.
21	BASIN SETOUT DETAILS - INLET (NORTH) SECTION (1:250)
22	BASIN SETOUT DETAILS - OUTLET (SOUTH) SECTION (1:250)

SHEET No.	DESCRIPTION
23	DRAINAGE LONGITUDINAL SECTION ('A'B'- 'A' T LINE).
24	DRAINAGE LONGITUDINAL SECTION ('A'5'- 'A'8' LINE).
25	DRAINAGE LONGITUDINAL SECTION ('B' LINE).
26	DRAINAGE LONGITUDINAL SECTIONS ('C' & 'V' LINES).
27	DRAINAGE LONGITUDINAL SECTIONS ('D' & 'G' LINES).
28	DRAINAGE LONGITUDINAL SECTIONS ('E' & 'F' LINES).
29	DRAINAGE LONGITUDINAL SECTIONS ('H'- 'O' LINES INCLUSIVE).
30	DRAINAGE LONGITUDINAL SECTIONS ('P'- 'R' LINES INCLUSIVE).
31	DRAINAGE LONGITUDINAL SECTIONS ('S'- 'U' LINES) INCL. & PIT SCHEDULE.
32	BASIN OUTLET GRILLE DETAIL.

AS CONSTRUCTED PLANS	
CONTRACTOR SIGNATURE:	CONSULTANT SIGNATURE:
_____	_____
DATE: 10/07/17	DATE: 10/07/17

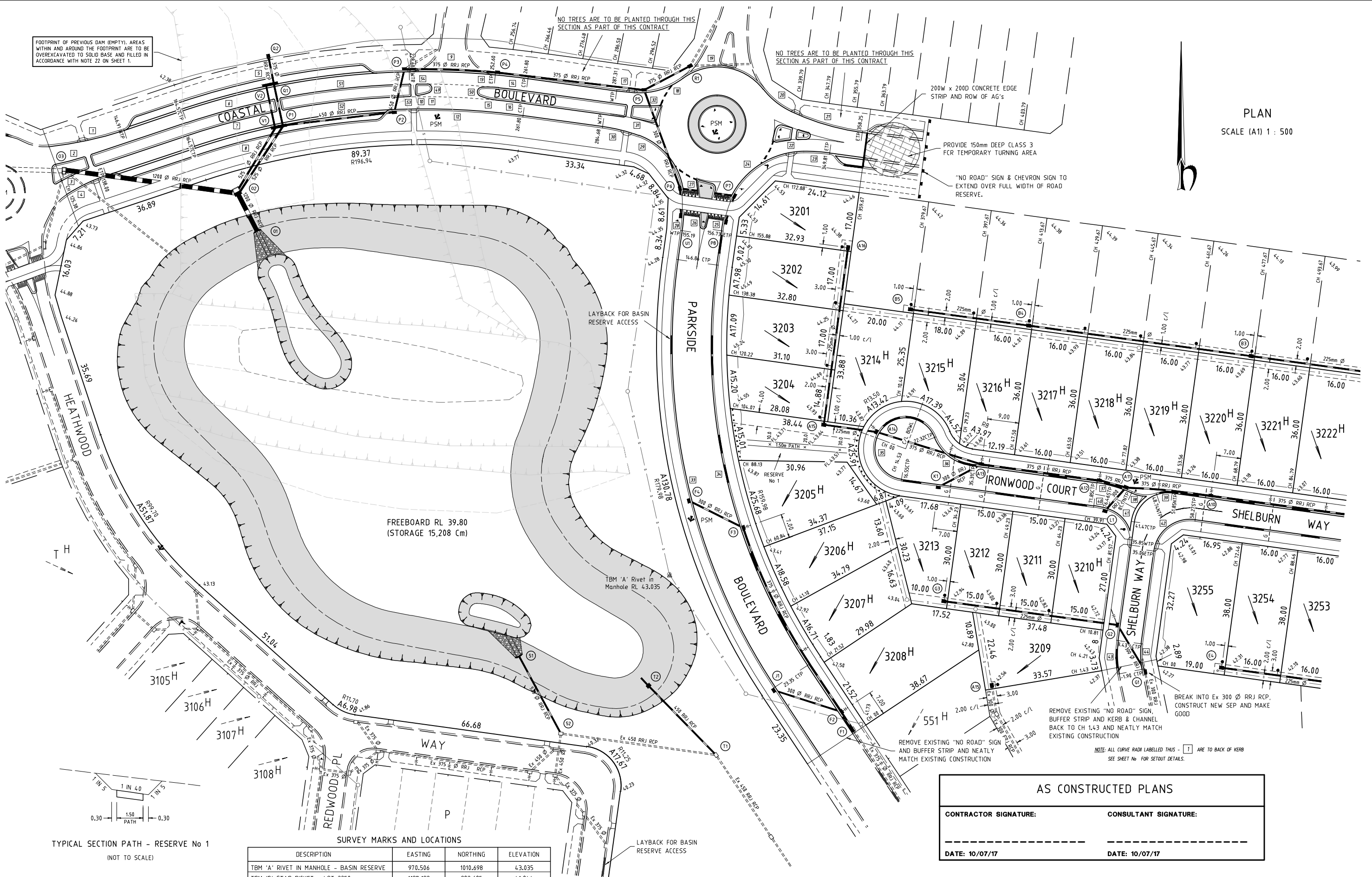
AMENDMENTS			 Peter Berry & Associates Pty. Ltd.				153 Yarra Street	
			Civil Engineers				Geelong Victoria 3220	
							Telephone: 5223 2799	
	10.07.17	AS CONSTRUCTED	MELWAY REF.	KINGSTON DOWNS ESTATE STAGE 32				MUNICIPALITY
22.11.16	VERSION C	SURVEYED	GREATER GEELONG					
DATE	DESCRIPTION	DESIGNED P.J.B	REFERENCE					
A1			DRAWN C.S.	0211 E/32				
			CHECKED					
				SCALE AS SHOWN	DATUM	AHD	DATE	JUL '16

FOOTPRINT OF PREVIOUS DAM (EMPTY). AREAS WITHIN AND AROUND THE FOOTPRINT ARE TO BE OVEREXCAVATED TO SOLID BASE AND FILLED IN ACCORDANCE WITH NOTE 22 ON SHEET 1.

NO TREES ARE TO BE PLANTED THROUGH THIS SECTION AS PART OF THIS CONTRACT

NO TREES ARE TO BE PLANTED THROUGH THIS SECTION AS PART OF THIS CONTRACT

PLAN
SCALE (A1) 1 : 500



TYPICAL SECTION PATH - RESERVE No 1
(NOT TO SCALE)

SURVEY MARKS AND LOCATIONS

DESCRIPTION	EASTING	NORTHING	ELEVATION
TBM 'A' RIVET IN MANHOLE - BASIN RESERVE	970.506	1010.698	43.035
TBM 'B' STAR PICKET - LOT 3250	1197.193	983.685	41.844


SERVICES LOCATION SCHEDULE

STREET NAME	TELECOM	GAS	WATER	ELECTRICITY	KERB
COASTAL BOULEVARD (28.5m)	0.40 S	2.10 N	2.70 N/4.80 S	1.10 S	VARIABLE
COASTAL BOULEVARD (24m)	1.90 S	2.10 N	2.70 N	2.60 S	VARIABLE
PARKSIDE BOULEVARD	1.90 W	2.10 E	2.70 E	2.50 W	4.00
IRONWOOD COURT	1.90 S	2.10 N	2.70 N	2.50 S	4.25
SHELBURN WAY	1.90 E & S	2.10 W & N	2.70 W & N	2.50 E & S	4.25

AS CONSTRUCTED PLANS

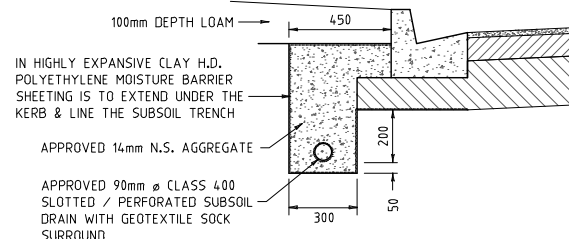
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DATE: 10/07/17 DATE: 10/07/17

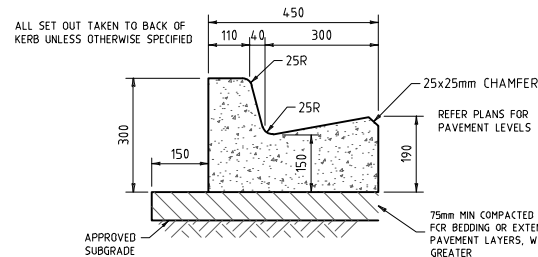
AMENDMENTS	10.07.17	AS CONSTRUCTED	 Peter Berry & Associates Pty. Ltd. Civil Engineers	153 Yarra Street Geelong Victoria 3220 Telephone: 5223 2799
	20.01.17	VERSION E (DRIVEWAY CHANGE - LOT 3209)		
	12.12.16	VERSION D (DRIVEWAY CHANGE - LOT 3208)		
	22.11.16	VERSION C		
A1	DATE	DESCRIPTION	MELWAY REF.	KINGSTON DOWNS ESTATE STAGE 32
			SURVEYED	
			DESIGNED P.J.B	
			DRAWN C.S.	
	1:500	0 5 10 20 30 METRES	CHECKED	SCALE AS SHOWN DATUM AHD DATE JUL '16
				MUNICIPALITY GREATER GEELONG REFERENCE 0211 E/32 SHEET 2 OF 32

PLAN
SCALE (A1) 1 : 500

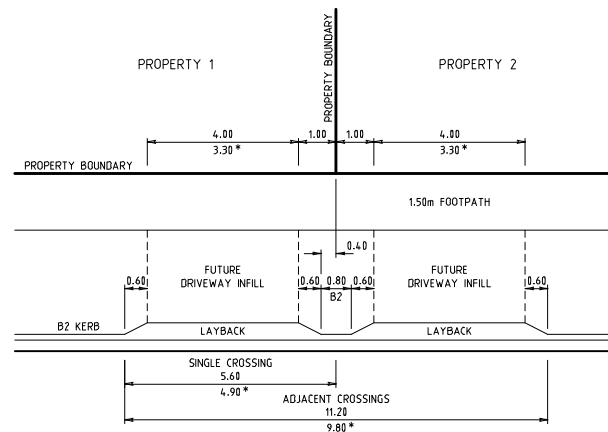
SURVEY MARKS AND LOCATIONS			
DESCRIPTION	EASTING	NORTHING	ELEVATION
TBM 'A' RIVET IN MANHOLE - BASIN RESERVE	970.506	1010.698	43.035
TBM 'B' STAR PICKET - LOT 3250	1197.193	983.685	41.844



SUBSOIL DRAIN DETAIL
(NOT TO SCALE)



B2 KERB SECTION
(NOT TO SCALE)
(SEE ID10 DRG SD100)



- NOTE:
- * WHERE LOT FRONTAGES ARE LESS THAN 12.50m THE DRIVEWAY WIDTH IS TO BE A MAXIMUM OF 3.30m.
 - WHERE ADJACENT DRIVEWAYS ARE LOCATED ON EACH SIDE OF THE PROPERTY BOUNDARY, THE LAYOUT IS TO BE AS PER ABOVE.
 - WHERE ADJACENT DRIVEWAYS ARE LOCATED ON EACH SIDE OF THE PROPERTY BOUNDARY, THE LAYOUT IS TO BE AS PER ABOVE.

VEHICLE CROSSING DETAILS
(NOT TO SCALE)

SERVICES LOCATION SCHEDULE

STREET NAME	TELECOM	GAS	WATER	ELECTRICITY	KERB
SHELBURN WAY	1.90 E & S	2.10 W & N	2.70 W & N	2.50 E & S	4.25
JANELLE WAY	1.90 E & S	2.10 W & N	2.70 W & N	2.50 E & S	4.25


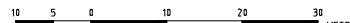
NOTE: ALL CURVE RADII LABELLED THUS - [1] ARE TO BACK OF KERB
SEE SHEET No. FOR SETOUT DETAILS.

AS CONSTRUCTED PLANS

CONTRACTOR SIGNATURE: _____ CONSULTANT SIGNATURE: _____




DATE: 10/07/17

DATE: 10/07/17

AMENDMENTS		 Peter Berry & Associates Pty. Ltd. Civil Engineers	153 Yarra Street Geelong Victoria 3220 Telephone: 5223 2799		
	10.07.17	AS CONSTRUCTED	MELWAY REF.	KINGSTON DOWNS ESTATE STAGE 32	
	22.11.16	VERSION C	SURVEYED		
	DATE	DESCRIPTION	DESIGNED P.J.B.		
A1	1:500			DRAWN C.S.	REFERENCE 0211 E/32
	CHECKED	SCALE AS SHOWN DATUM AHD DATE JUL '16		SHEET 3 OF 32	



<h2 style="margin: 0;">AS CONSTRUCTED PLANS</h2>	
CONTRACTOR SIGNATURE: <div style="border-top: 1px dashed black; height: 1.2em; width: 100%;"></div>	CONSULTANT SIGNATURE: <div style="border-top: 1px dashed black; height: 1.2em; width: 100%;"></div>
DATE: 10/07/17	DATE: 10/07/17

AMENDMENTS					Peter Berry & Associates Pty. Ltd. Civil Engineers			153 Yarra Street Geelong Victoria 3220 Telephone: 5223 2799		
	10.07.17	AS CONSTRUCTED	MELWAY REF.	KINGSTON DOWNS ESTATE STAGE 32			MUNICIPALITY			
	22.11.16	VERSION C	SURVEYED				GREATER GEELONG			
DATE	DESCRIPTION	DESIGNED P.J.B	REFERENCE							
A1	1: 100		DRAWN C.S.				0211 E/32			
	1: 50		CHECKED							SCALE AS SHOWN DATUM AHD DATE JUL '16
							SHEET 5 OF 32			

LINE

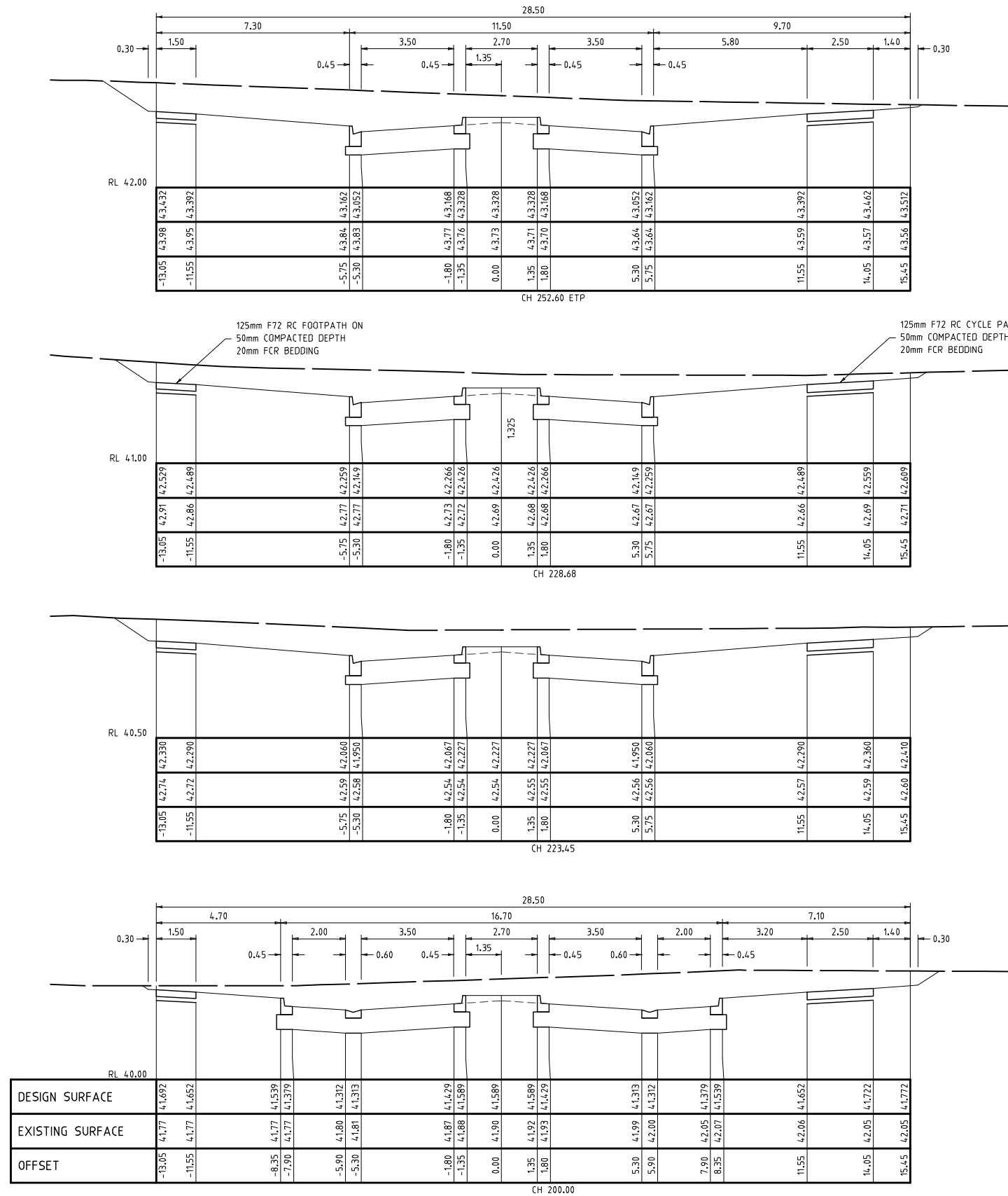
BUILDING

NORTH

LINE

BUILDING

SOUTH



COASTAL BOULEVARD CROSS SECTIONS


SCALES - HORIZ. 1 : 100
VERT. 1 : 50

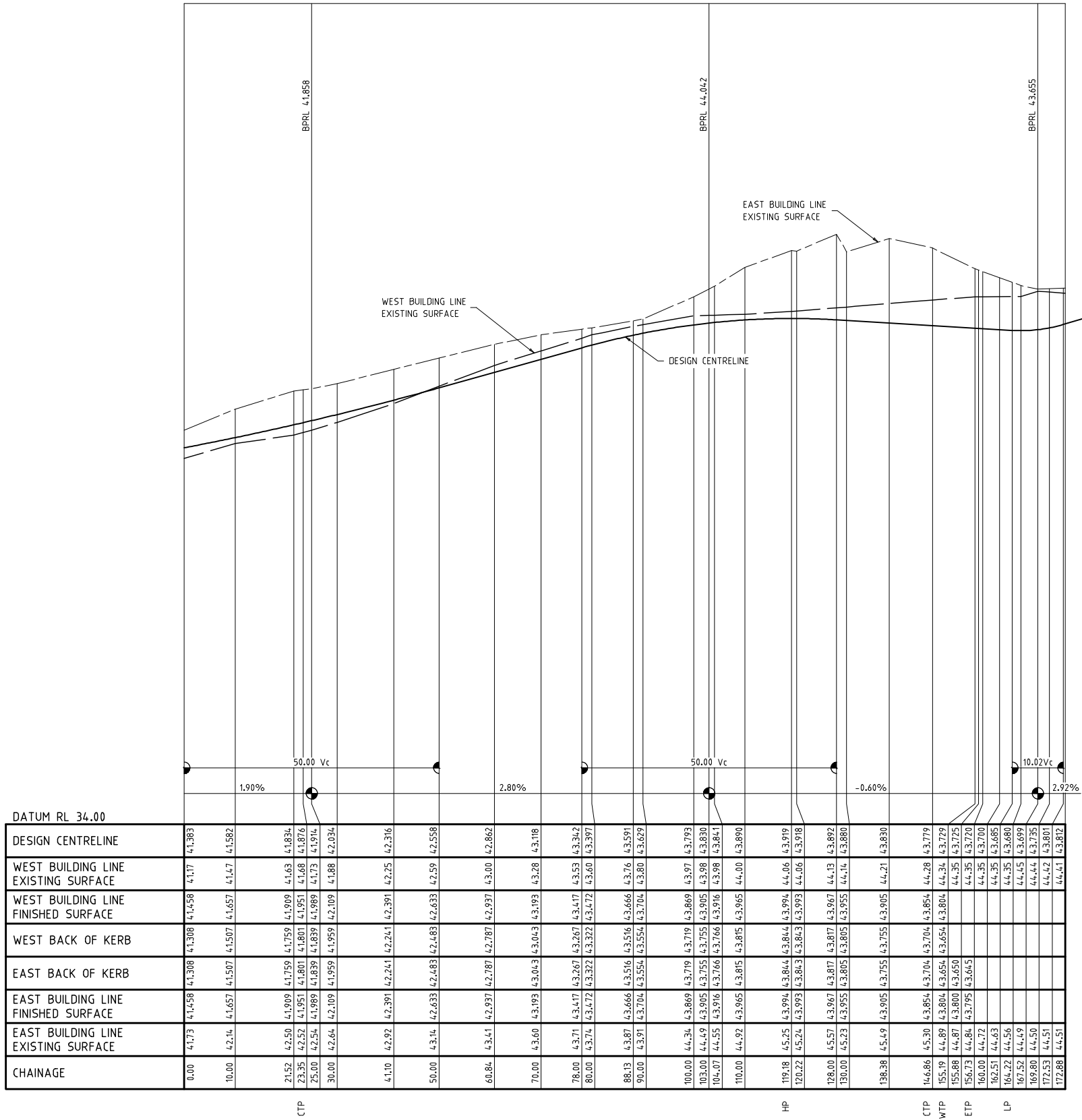
PAVEMENT TO CONSIST OF:
a) 30mm COMPACTED DEPTH 10mm TYPE N CLASS 170 ASPHALT
b) PRIME AS SPECIFIED
c) 150mm COMPACTED DEPTH 20mm CLASS 2 FCR
d) 255mm COMPACTED DEPTH 20mm CLASS 3 FCR

AS CONSTRUCTED PLANS	
CONTRACTOR SIGNATURE:	CONSULTANT SIGNATURE:
DATE: 10/07/17	DATE: 10/07/17

AMENDMENTS		Peter Berry & Associates Pty. Ltd. Civil Engineers		153 Yarra Street Geelong Victoria 3220 Telephone: 5223 2799			
10.07.17	AS CONSTRUCTED	MELWAY REF.	KINGSTON DOWNS ESTATE STAGE 32		MUNICIPALITY GREATER GEELONG		
22.11.16	VERSION C	SURVEYED			REFERENCE 0211 E/32		
DATE	DESCRIPTION	DESIGNED P.J.B			SHEET 6 OF 32		
A1	1 : 100 1 : 50	1 2 3 4 5 6 0 0.5 1 2 3 METRES	DRAWN C.S.	CHECKED	SCALE AS SHOWN	DATUM AHD	DATE JUL '16



AMENDMENTS			 Peter Berry & Associates Pty. Ltd. Civil Engineers		153 Yarra Street Geelong Victoria 3220 Telephone: 5223 2799		
	10.07.17	AS CONSTRUCTED	MELWAY REF.	<div>KINGSTON DOWNS ESTATE STAGE 32</div>			MUNICIPALITY
	22.11.16	VERSION C	SURVEYED				GREATER GEELONG
DATE	DESCRIPTION	DESIGNED P.J.B	REFERENCE				
A1	<div><div>1 : 100</div><div><div>2</div><div>1</div><div>0</div><div>2</div><div>4</div><div>6</div></div><div>METRES</div></div>		DRAWN C.S.	<div>0211 E/32</div>			
	<div><div>1 : 50</div><div><div>1</div><div>0.5</div><div>0</div><div>1</div><div>2</div><div>3</div></div><div>METRES</div></div>		CHECKED				SCALE AS SHOWN



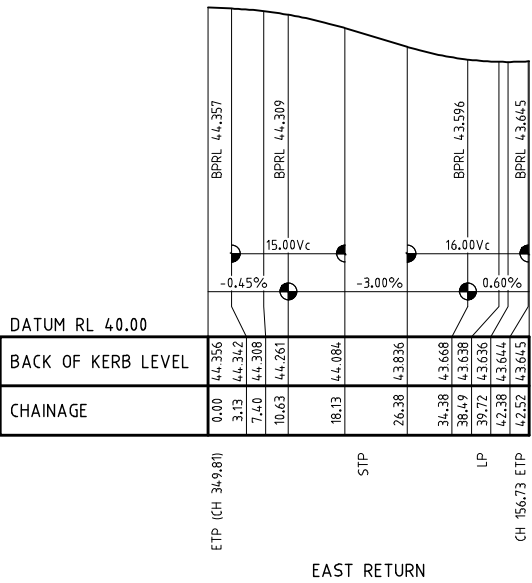
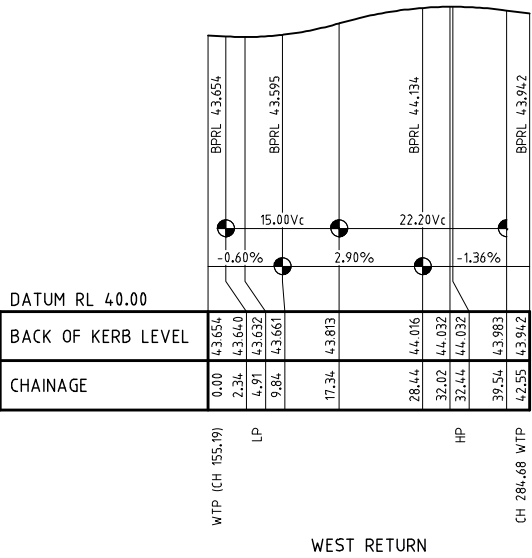
PARKSIDE

BOULEVARD

LONGITUDINAL

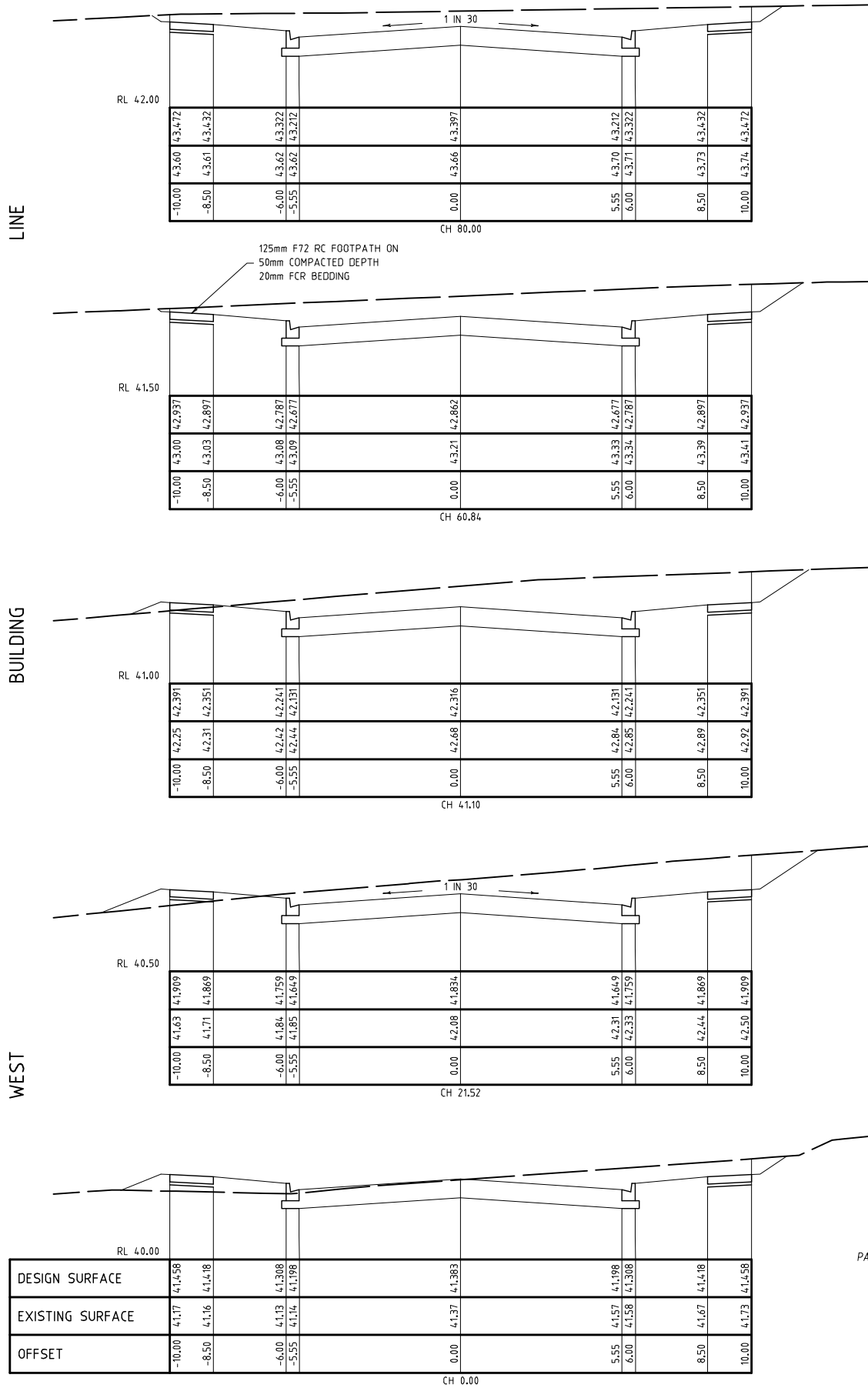
SECTION

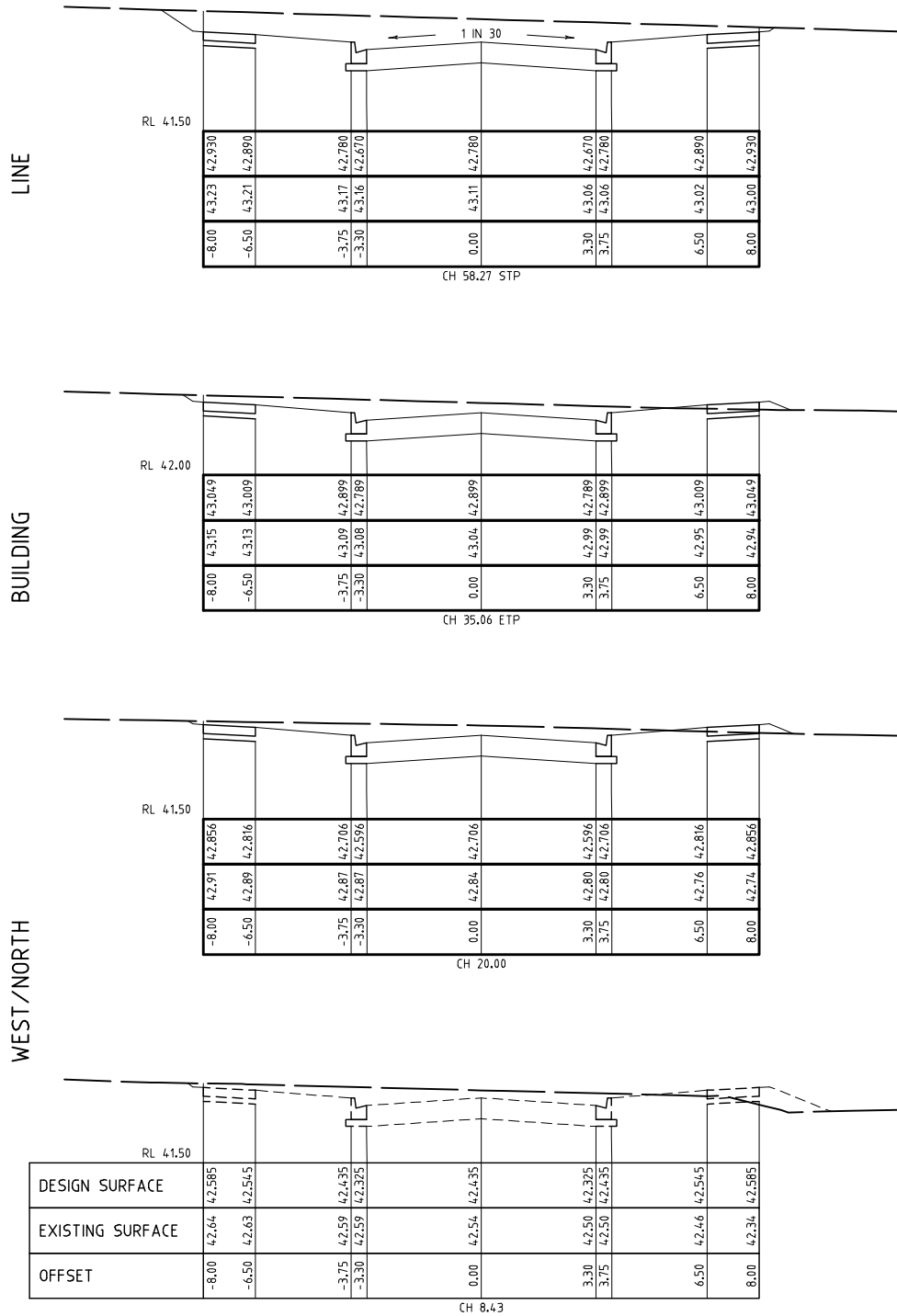
SCALES - HORIZ. 1 : 500
VERT. 1 : 50



AS CONSTRUCTED PLANS	
CONTRACTOR SIGNATURE:	CONSULTANT SIGNATURE:
_____	_____
DATE: 10/07/17	DATE: 10/07/17

AMENDMENTS			Peter Berry & Associates Pty. Ltd. Civil Engineers	153 Yarra Street Geelong Victoria 3220 Telephone: 5223 2799	MUNICIPALITY GREATER GEELONG	REFERENCE 0211 E/32			
	10.07.17	AS CONSTRUCTED	MELWAY REF.	KINGSTON DOWNS ESTATE STAGE 32	SHEET 8 OF 32				
	22.11.16	VERSION C	SURVEYED						
	DATE	DESCRIPTION	DESIGNED P.J.B						
			DRAWN C.S.						
A1	1 : 500	1 : 50	1 : 50	CHECKED	SCALE AS SHOWN	DATUM	AHD	DATE	JUL '16

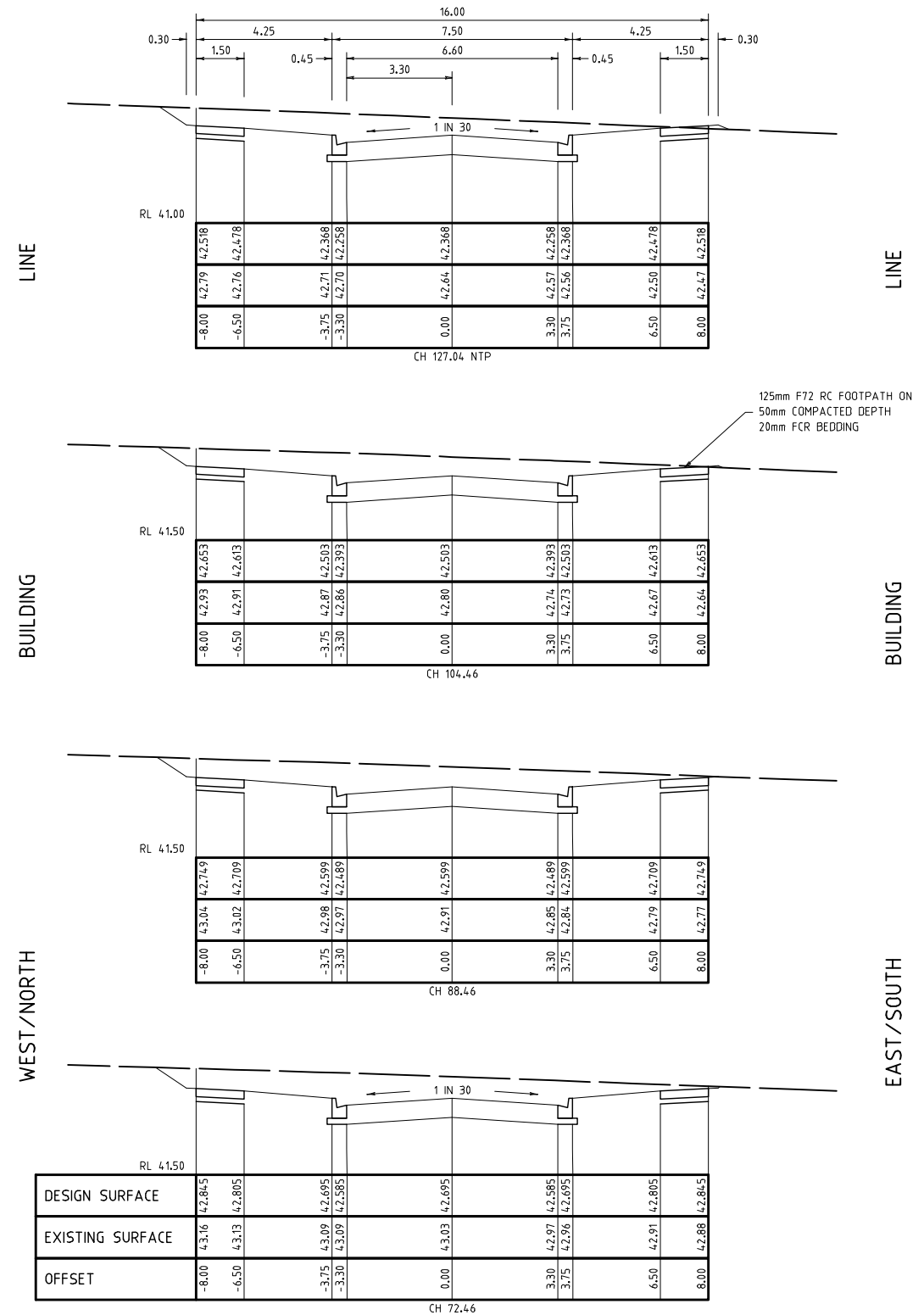




SHELBURN WAY CROSS SECTIONS

SCALES - HORIZ. 1 : 100
VERT. 1 : 50


PAVEMENT TO CONSIST OF:
a) 30mm COMPACTED DEPTH 10mm TYPE N CLASS 170 ASPHALT
b) PRIME AS SPECIFIED
c) 150mm COMPACTED DEPTH 20mm CLASS 2 FCR
d) 170mm COMPACTED DEPTH 20mm CLASS 3 FCR

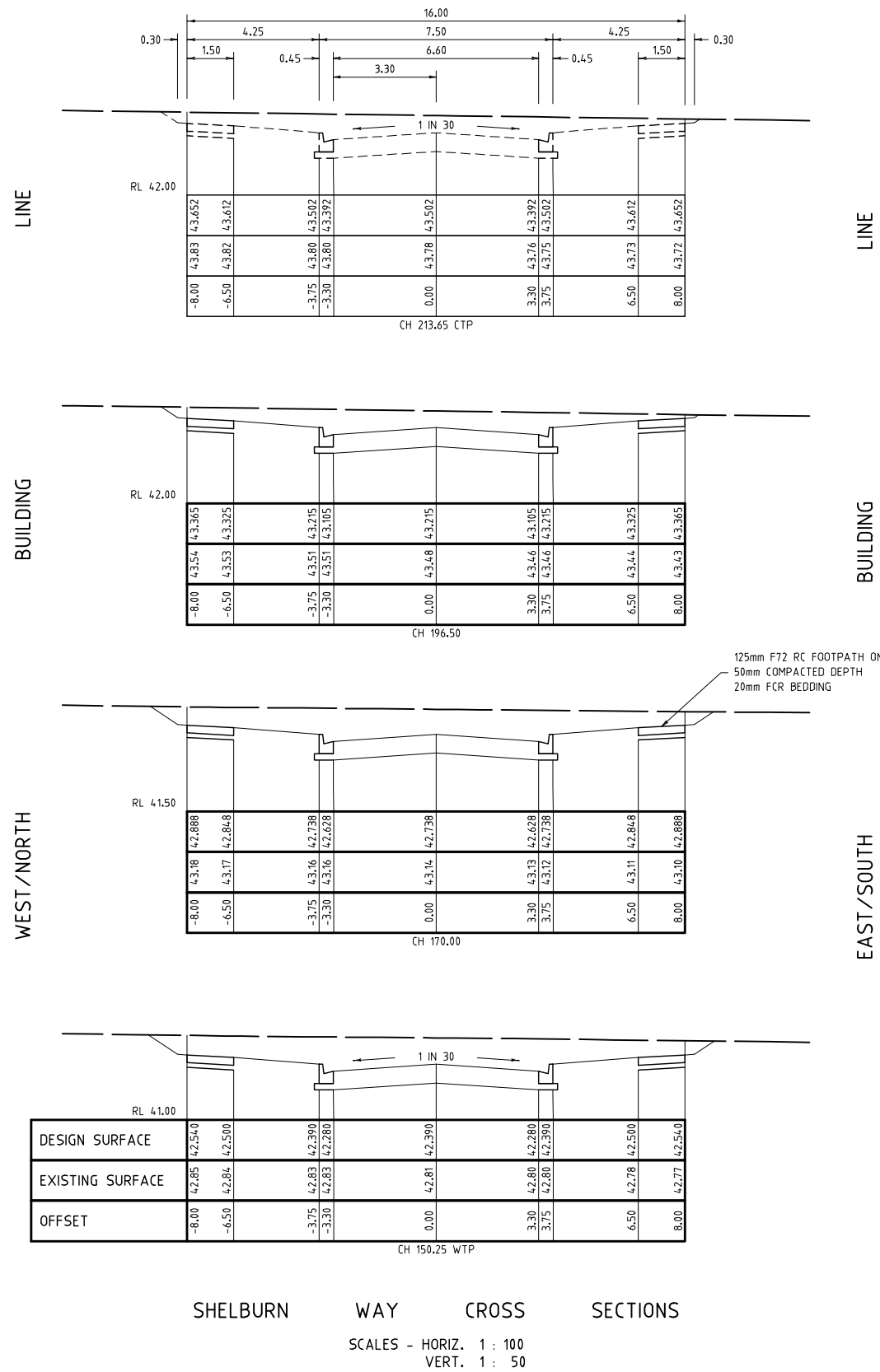


AS CONSTRUCTED PLANS

CONTRACTOR SIGNATURE: _____ CONSULTANT SIGNATURE: _____

DATE: 10/07/17 DATE: 10/07/17

AMENDMENTS			<div></div> <div>Peter Berry & Associates Pty. Ltd.</div> <div>Civil Engineers</div>				<div>153 Yarra Street</div> <div>Geelong Victoria 3220</div> <div>Telephone: 5223 2799</div>			
	10.07.17	AS CONSTRUCTED	MELWAY REF.	KINGSTON DOWNS ESTATE STAGE 32				MUNICIPALITY		
	22.11.16	VERSION C	SURVEYED					GREATER GEELONG		
A1	DATE	DESCRIPTION	DESIGNED P.J.B	REFERENCE 0211 E ₃₂				SHEET 11 OF 32		
	1 : 500 1 : 50	<div><div><div>10</div><div>5</div><div>0</div><div>10</div><div>20</div><div>30</div></div><div>1 0.5 0 1 2 3</div></div> METRES	DRAWN C.S.							
			CHECKED	SCALE AS SHOWN	DATUM	AHD	DATE JUL '16			

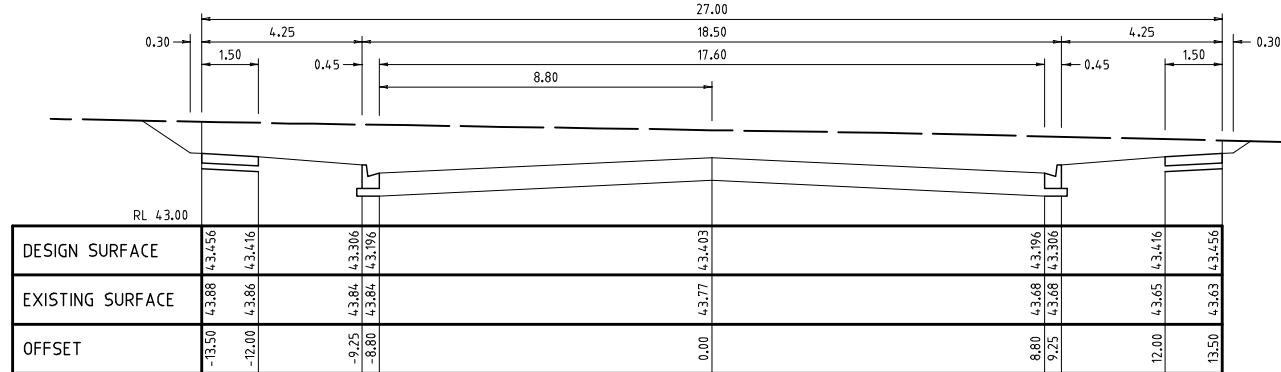
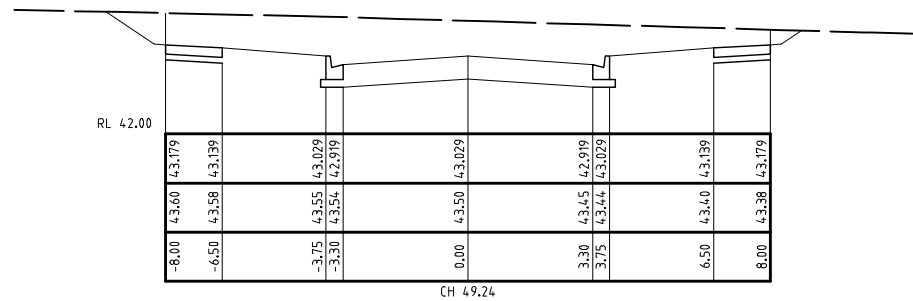
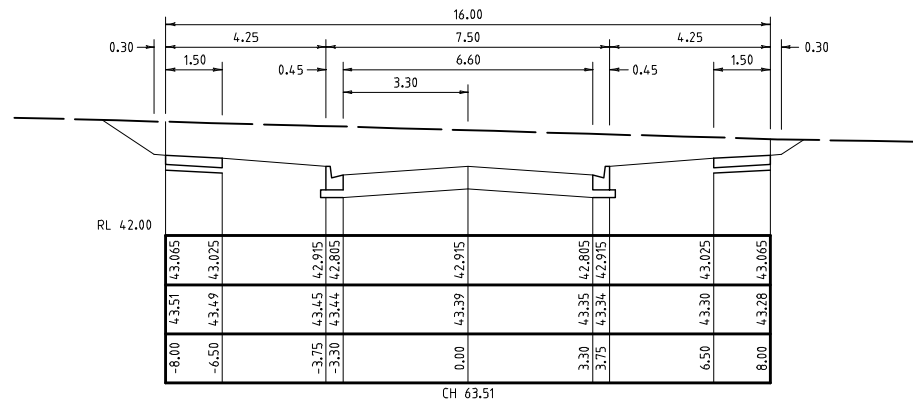
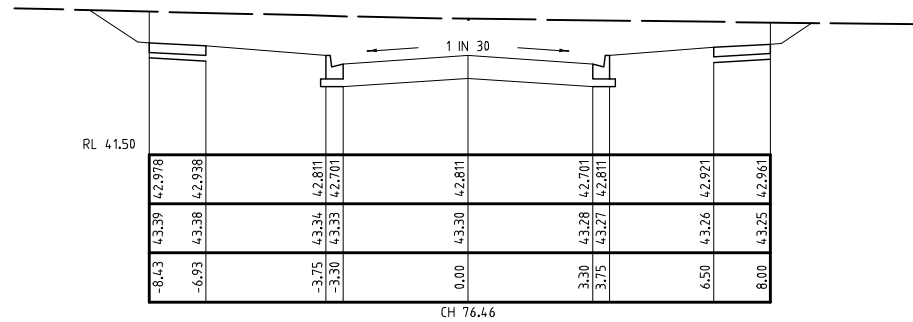


PAVEMENT TO CONSIST OF:

- 30mm COMPACTED DEPTH 10mm TYPE N CLASS 170 ASPHALT
- PRIME AS SPECIFIED
- 150mm COMPACTED DEPTH 20mm CLASS 2 FCR
- 170mm COMPACTED DEPTH 20mm CLASS 3 FCR

AS CONSTRUCTED PLANS	
CONTRACTOR SIGNATURE:	CONSULTANT SIGNATURE:
DATE: 10/07/17	DATE: 10/07/17

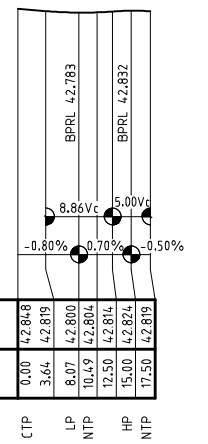
AMENDMENTS			<div><div>Peter Berry & Associates Pty. Ltd.</div><div>Civil Engineers</div></div>	<div>153 Yarra Street Geelong Victoria 3220 Telephone: 5223 2799</div>					
	10.07.17	AS CONSTRUCTED	MELWAY REF.	KINGSTON DOWNS ESTATE STAGE 32			MUNICIPALITY		
	22.11.16	VERSION C	SURVEYED				GREATER GEELONG		
	DATE	DESCRIPTION	DESIGNED P.J.B				REFERENCE		
A1	<div><div>1: 100210246</div><div>1: 5010.50123</div><div>METRES</div></div>		DRAWN C.S.	SCALE AS SHOWN			DATUM AHD	DATE JUL '16	SHEET 12 OF 32
			CHECKED						



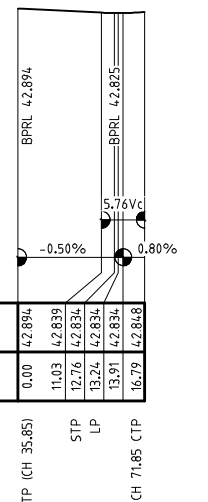
SCALES - HORIZ. 1 : 100
VERT. 1 : 50

[illegible]



DATE: 10/07/17

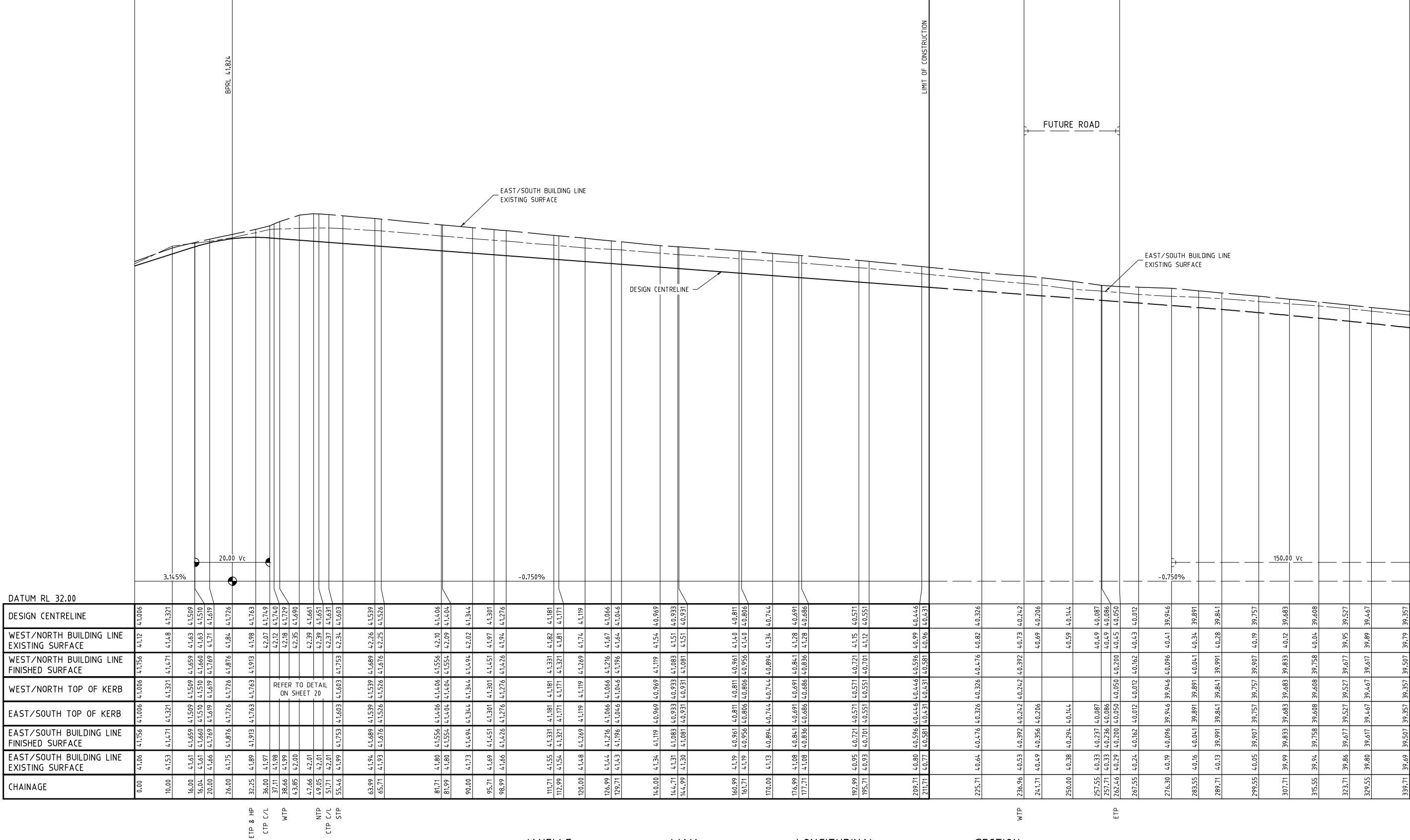


CHAINAGE



SOUTH RETURN

AMENDMENTS			 Peter Berry & Associates Pty. Ltd. Civil Engineers		153 Yarra Street Geelong Victoria 3220 Telephone: 5223 2799		
	10.07.17	AS CONSTRUCTED	MELWAY REF.	KINGSTON DOWNS ESTATE STAGE 32			MUNICIPALITY
	22.11.16	VERSION C	SURVEYED				GREATTER GEELONG
DATE	DESCRIPTION	DESIGNED P.J.B	REFERENCE				
A1			DRAWN C.S.	0211 E/32			
	 METRES		CHECKED				SCALE AS SHOWN

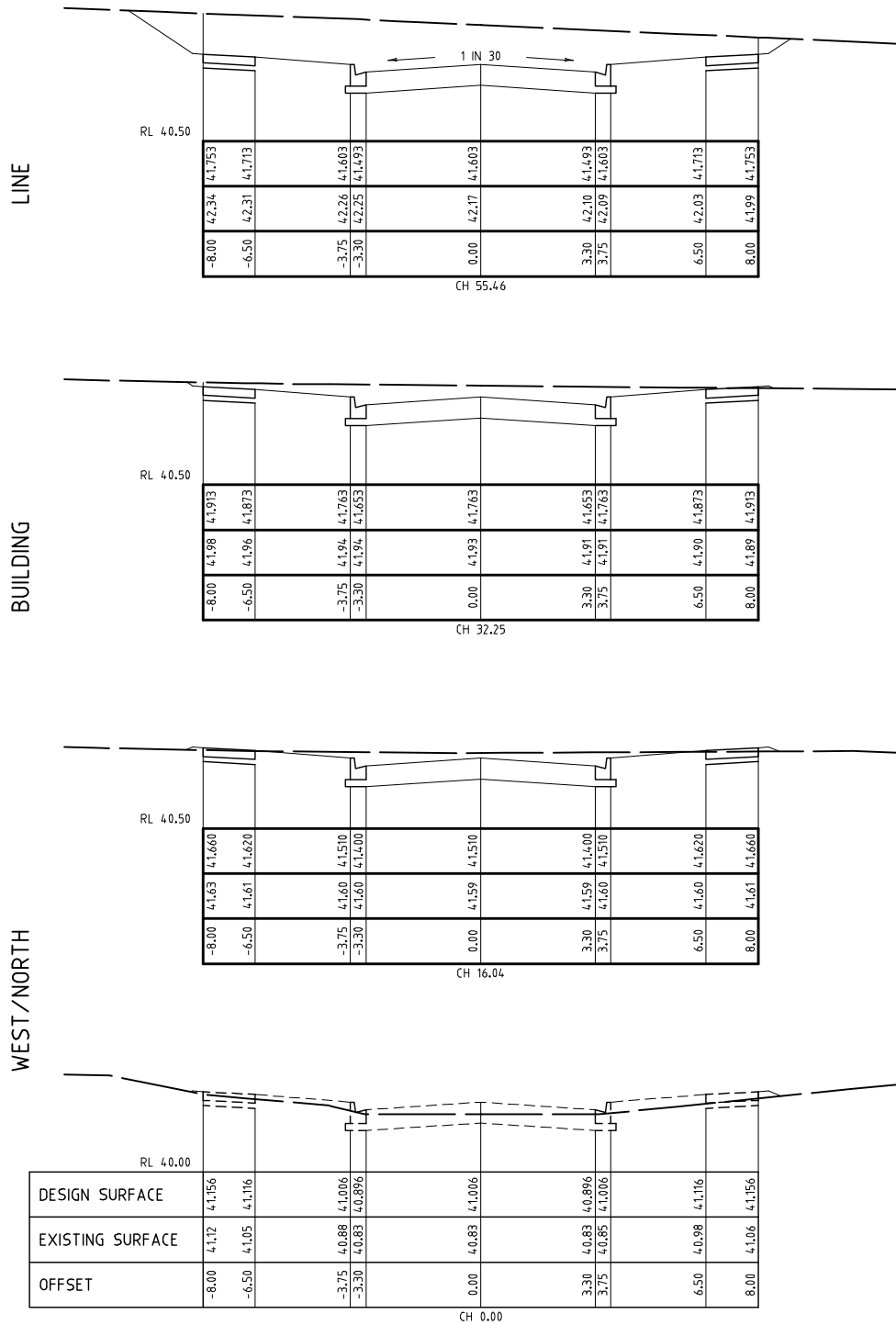


JANELLE WAY LONGITUDINAL SECTION

SCALES - HORIZ. 1 : 500
VERT. 1 : 50

AS CONSTRUCTED PLANS	
CONTRACTOR SIGNATURE:	CONSULTANT SIGNATURE:
_____	_____
DATE: 10/07/17	DATE: 10/07/17

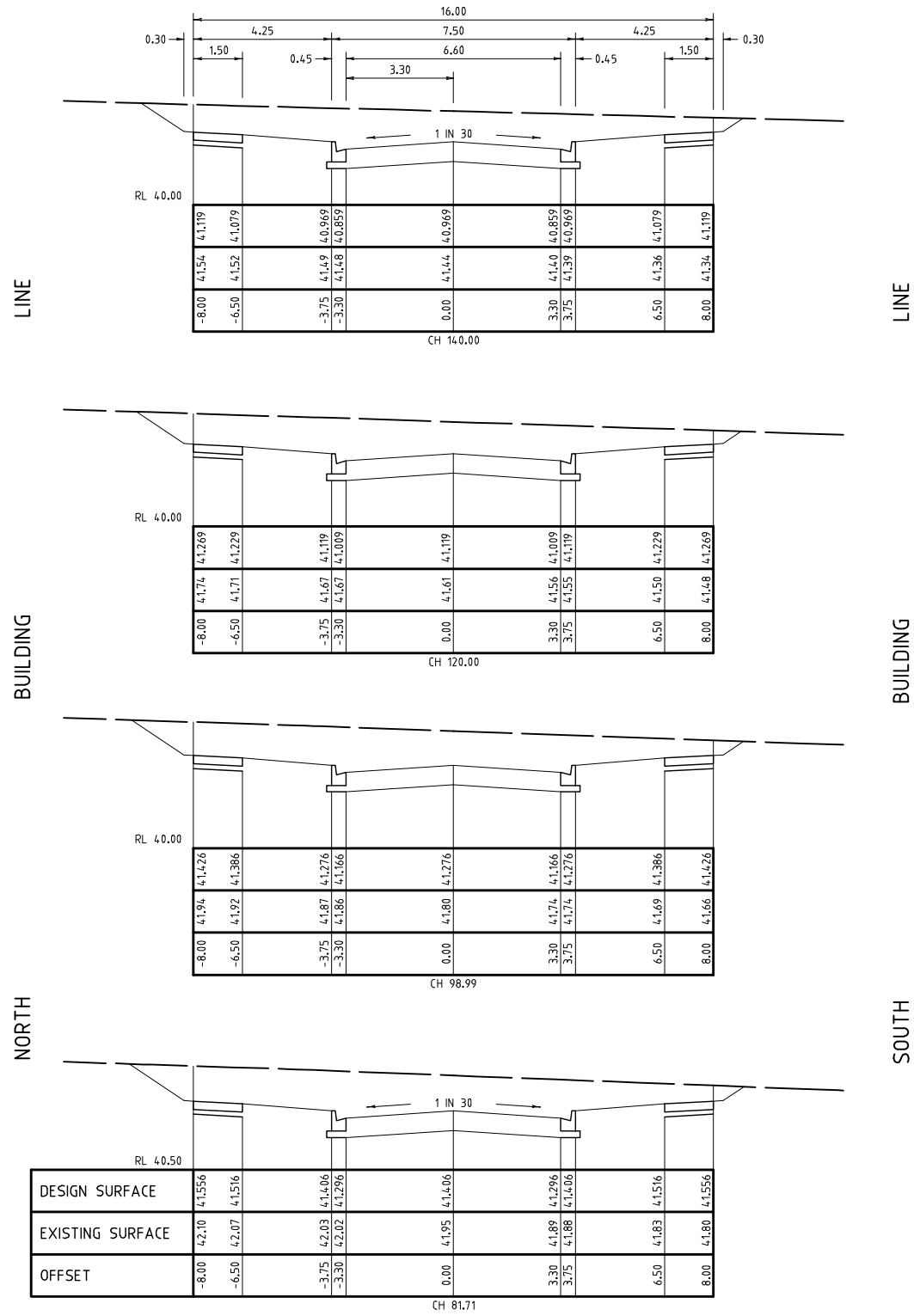
AMENDMENTS			Peter Berry & Associates Pty. Ltd. Civil Engineers 153 Yarra Street Geelong Victoria 3220 Telephone: 5223 2799		
10.07.17	AS CONSTRUCTED	MELWAY REF.	KINGSTON DOWNS ESTATE STAGE 32	MUNICIPALITY	
22.11.16	VERSION C	SURVEYED		GREATER GEELONG	
DATE	DESCRIPTION	DESIGNED P.J.B		REFERENCE	
1 : 500 1 : 50	0 5 10 20 30 1 0.5 1 2 3 METRES	DRAWN C.S.		0211 E/32	
A1	CHECKED	SCALE AS SHOWN	DATUM AHD	DATE JUL '16	SHEET 14 OF 32



JANELLE WAY CROSS SECTIONS

SCALES - HORIZ. 1 : 100
VERT. 1 : 50

- PAVEMENT TO CONSIST OF:
- a) 30mm COMPACTED DEPTH 10mm TYPE N CLASS 170 ASPHALT
 - b) PRIME AS SPECIFIED
 - c) 150mm COMPACTED DEPTH 20mm CLASS 2 FCR
 - d) 170mm COMPACTED DEPTH 20mm CLASS 3 FCR



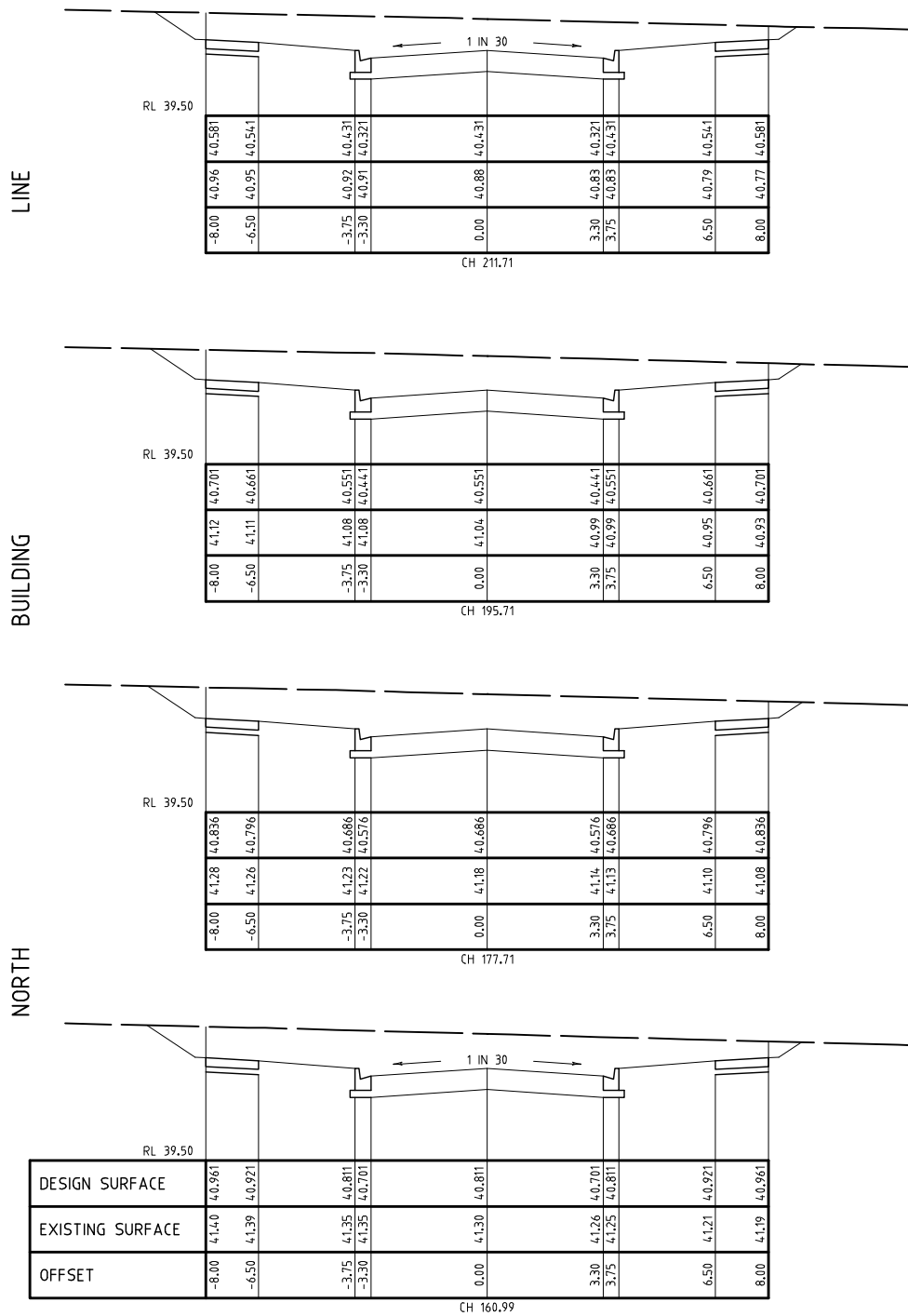
AS CONSTRUCTED PLANS

CONTRACTOR SIGNATURE: CONSULTANT SIGNATURE:

DATE: 10/07/17

DATE: 10/07/17

AMENDMENTS			<div>Peter Berry & Associates Pty. Ltd. Civil Engineers</div> <div>153 Yarra Street Geelong Victoria 3220 Telephone: 5223 2799</div>		KINGSTON DOWNS ESTATE STAGE 32		MUNICIPALITY GREATER GEELONG REFERENCE 0211 E ₃₂ SHEET 15 OF 32	
	10.07.17	AS CONSTRUCTED						
	22.11.16	VERSION C						
	DATE	DESCRIPTION						
A1	1 : 100	1 : 50	1 : 25	1 : 12.5	1 : 6.25	1 : 3.125	1 : 1.5625	1 : 0.78125
	1 : 50	1 : 25	1 : 12.5	1 : 6.25	1 : 3.125	1 : 1.5625	1 : 0.78125	1 : 0.390625
	1 : 25	1 : 12.5	1 : 6.25	1 : 3.125	1 : 1.5625	1 : 0.78125	1 : 0.390625	1 : 0.1953125
			MELWAY REF.		SURVEYED		DESIGNED	
			P.J.B		C.S.		CHECKED	
			SCALE AS SHOWN		DATUM		AHD	
			DATE		JUL '16			



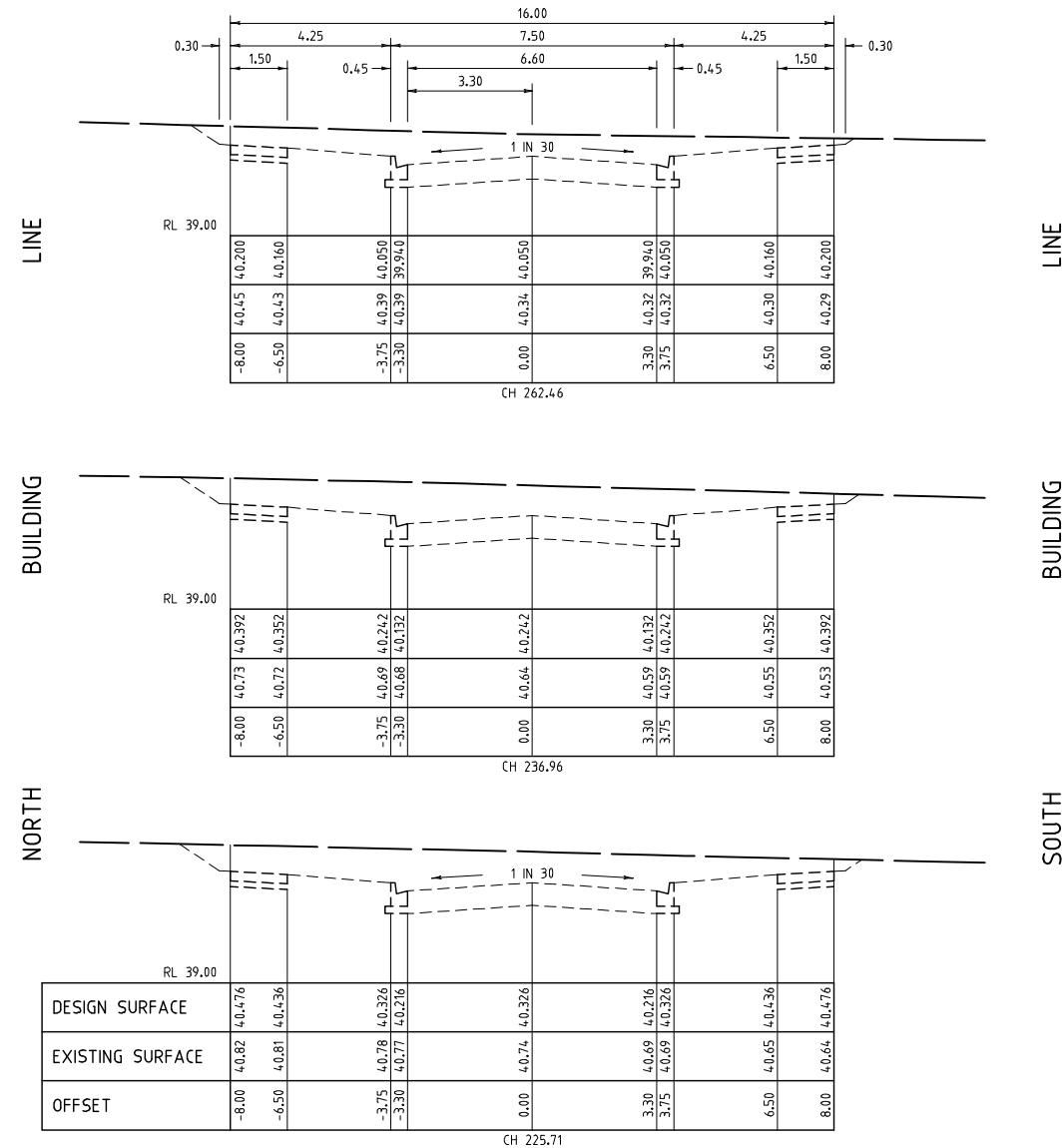
PAVEMENT TO CONSIST OF:

a) 30mm COMPACTED DEPTH 10mm TYPE N CLASS 170 ASPHALT

b) PRIME AS SPECIFIED

c) 150mm COMPACTED DEPTH 20mm CLASS 2 FCR

d) 170mm COMPACTED DEPTH 20mm CLASS 3 FCR




AS CONSTRUCTED PLANS

CONTRACTOR SIGNATURE: _____

CONSULTANT SIGNATURE: _____

DATE: 10/07/17

DATE: 10/07/17

AMENDMENTS			 Peter Berry & Associates Pty. Ltd. Civil Engineers	153 Yarra Street Geelong Victoria 3220 Telephone: 5223 2799
	10.07.17	AS CONSTRUCTED	MELWAY REF.	KINGSTON DOWNS ESTATE STAGE 32
	22.11.16	VERSION C	SURVEYED	
A1	DATE	DESCRIPTION	DESIGNED P.J.B.	
	1:100 1:50	1 0.5 1 2 3 METRES	DRAWN C.S.	MUNICIPALITY GREATER GEELONG
			CHECKED	REFERENCE 0211 E/32
			SCALE AS SHOWN	SHEET 16 OF 32
			DATUM AHD	
			DATE JUL '16	

PLAN DETAIL

SCALE (A1) 1 : 200

CONTOUR INTERVAL 0.10 m

PAVEMENT COMPOSITION (CONCRETE SHARED BICYCLE PATH) -

- i) 125mm COMPACTED DEPTH REINFORCED (F72 MESH), 32MPa COLOURED CONCRETE, VIBRATED AND PROPERLY CURED IN ACCORDANCE WITH THE APPROPRIATE AUSTRALIAN STANDARD CODE.
"SAND" COLOUR TO BE ADDED AT THE TIME OF BATCHING.
- ii) 50mm COMPACTED DEPTH CLASS 3 20mm FCR.
- a) REINFORCEMENT IS TO BE ADEQUATELY SUPPORTED BY APPROPRIATE SIZED CHAIRS PRIOR TO THE POURING/PLACEMENT OF CONCRETE.
- b) CONCRETE PAVEMENT TO BE CAST MONOLITHICALLY.
- c) EXPANSION JOINTS TO BE SAW CUT PERPENDICULAR TO THE DIRECTION OF TRAVEL.

SEE NOTE i) LEFT

NOTE: LINE MARKING FOLLOWING ROUNDABOUT WORKS IS TO BE CARRIED OUT IN ACCORDANCE WITH VICROADS STANDARDS. THE DELINEATION OF THE INTERSECTION TREATMENT IS TO INCLUDE RRPMs ON ALL ROUNDABOUT APPROACHES.

NO TREES ARE TO BE PLANTED THROUGH THIS SECTION AS PART OF THIS CONTRACT

REMOVE EXISTING "NO ROAD" SIGN AND BUFFER STRIP AND NEATLY MATCH EXISTING CONSTRUCTION

REFER TO THE LANDSCAPING PLAN FOR DETAILS ON FOOTPATH AND FENCING ALONG/THROUGH RESERVE

CURVE SETOUT TABLE

CURVE	RADIUS (m)	L	T	ARC	a	b	c	d
1	99.85	12°33'26"	10.986	21.884	10.920	0.599	5.468	0.150
2	75.15	6°19'45"	4.155	8.301	4.149	0.115	2.075	0.029
3	55.15	10°13'36"	4.935	9.844	4.915	0.219	2.460	0.055
4	49.85	14°18'32"	6.257	12.449	6.209	0.388	3.110	0.097
5	220.74	13°36'54"	26.351	52.454	26.165	1.556	13.106	0.389
6	213.74	6°52'57"	12.853	25.675	12.830	0.385	6.418	0.096
7	211.04	6°53'20"	12.702	25.374	12.679	0.381	6.342	0.095
8	204.84	14°33'36"	26.066	51.850	25.855	1.645	12.954	0.412
9	218.14	11°22'03"	21.711	43.28	21.604	1.072	10.815	0.268
10	29.85	3°13'27"	0.840	1.680	0.840	0.012	0.420	0.003
11	8.35	10°33'49"	0.772	1.539	0.769	0.035	0.385	0.009
12	206.64	10°28'45"	18.787	37.313	18.631	0.842	9.325	0.211
13	29.85	9°06'27"	2.377	4.745	2.370	0.094	1.186	0.024
14	213.74	2°08'30"	3.995	7.989	3.994	0.037	1.997	0.009
15	14.85	17°10'44"	2.243	4.452	2.218	0.167	1.112	0.042
16	211.04	2°15'47"	4.168	8.336	4.168	0.041	2.084	0.010
49	0.85	156°58'48"	4.149	2.327	0.833	0.679	0.537	0.191
50	0.85	153°35'49"	3.624	2.279	0.828	0.656	0.528	0.184
51	213.74	9°54'24"	18.524	36.957	18.455	0.798	9.236	0.200
52	211.04	9°27'12"	17.450	34.820	17.390	0.718	8.783	0.180
53	29.85	3°06'37"	0.810	1.628	0.810	0.011	0.405	0.003
54	213.74	0°45'32"	1.415	2.831	1.415	0.005	0.708	0.001

NOTE: ALL CURVE RADII LABELLED THIS - T ARE TO BACK OF KERB

POINT No	EASTING	NORTHING	ELEVATION
1	793.542	1133.265	43.334
2	798.964	1133.973	43.142
3	804.344	1134.976	42.943
4	809.658	1136.273	42.737
5	814.893	1137.859	42.523
6	816.216	1138.967	42.450
7	817.091	1140.579	42.487
8	818.582	1141.828	42.446
9	830.829	1145.908	41.933
10	843.386	1149.680	41.604
11	856.145	1152.708	41.483
12	869.061	1154.957	41.573
13	882.088	1156.443	41.871
14	883.965	1155.812	41.899
15	885.420	1154.708	41.983
16	887.034	1154.198	41.917
17	897.845	1154.402	42.317
18	908.663	1154.470	42.717
19	919.461	1153.801	43.114
20	930.213	1152.598	43.456
21	955.484	1149.134	43.978
22	968.702	1148.617	44.024
23	967.676	1149.423	44.015
24	973.942	1152.598	43.919
25	979.844	1155.440	43.819
26	986.386	1155.838	43.781
27	992.589	1153.724	43.880
28	997.527	1149.416	44.014
29	1001.001	1145.883	44.122
30	1005.286	1143.263	44.203
31	1018.083	1141.193	44.268
32	1015.104	1139.499	44.320
33	1028.238	1138.189	44.347
34	1025.457	1137.271	44.326
35	1025.445	1126.875	44.437
36	1028.491	1127.354	44.457
37	1018.857	1128.234	44.445
38	1017.479	1129.809	44.398
39	1016.030	1130.598	44.356
40	1008.653	1131.849	44.308
41	1001.044	1129.659	44.165
42	994.325	1125.825	43.939
43	989.258	1119.981	43.727
44	986.415	1112.787	43.638
45	985.718	1108.817	43.645

KERB SETOUT SCHEDULE

POINT No	EASTING	NORTHING	ELEVATION
46	973.624	1108.975	43.654
47	974.035	1108.791	43.661
48	972.923	1124.204	43.761
49	970.301	1129.068	43.904
50	966.391	1132.972	43.997
51	961.522	1135.585	44.031
52	951.322	1138.097	43.942
53	928.650	1141.285	43.456
54	919.383	1142.263	43.148
55	910.077	1142.982	42.789
56	900.753	1143.128	42.425
57	891.427	1142.917	42.059
58	889.825	1142.184	42.039
59	888.589	1140.879	42.029
60	886.843	1140.056	41.991
61	873.944	1138.773	41.618
62	861.157	1136.674	41.484
63	848.527	1133.767	41.589
64	836.187	1130.063	41.933
65	817.078	1123.725	42.732
66	815.223	1123.792	42.768
67	813.290	1124.596	42.731
68	811.646	1124.656	42.793
69	810.872	1124.131	42.852
70	798.871	1118.771	43.288
71	795.554	1122.638	43.401
72	795.545	1121.323	43.387
73	803.565	1129.450	43.166
74	804.432	1126.859	43.164
75	816.885	1127.708	43.082
76	816.032	1130.269	43.082
77	833.041	1139.266	41.984
78	833.895	1136.785	41.984
79	849.898	1141.142	41.682
80	858.084	1144.168	41.581
81	864.592	1144.427	41.554
82	867.474	1147.639	41.587
83	880.289	1146.541	41.842
84	885.093	1149.457	42.002
85	894.726	1147.438	42.361
86	898.639	1147.886	42.522
87	900.289	1148.119	42.598
88	901.754	1148.585	42.674
89	901.426	1150.218	42.617
90	916.941	1149.248	43.213

POINT No	EASTING	NORTHING	ELEVATION
91	916.668	1147.616	43.217
92	920.969	1146.533	43.356
93	921.681	1149.176	43.372
94	925.113	1146.889	43.496
95	925.652	1148.745	43.503
96	929.248	1145.564	43.623
97	929.614	1148.239	43.623
98	957.835	1144.371	44.175
99	957.467	1141.696	44.179
100	959.903	1141.428	44.209
101	960.264	1144.849	44.196
102	967.544	1144.113	44.227
103	965.456	1140.201	44.225
104	1002.494	1138.372	44.384
105	1009.379	1136.429	44.444
106	1009.478	1135.479	44.468
107	1008.684	1134.651	44.367
108	983.074	1129.692	43.835
109	982.434	1118.118	43.807
110	981.312	1113.611	43.814
111	980.459	1110.380	43.842
112	979.572	1110.283	43.852
113	979.456	1113.853	43.817
114	979.086	1118.557	43.795
115	978.558	1122.725	43.839
116	977.496	1134.462	44.133
117	976.033	1140.407	44.302
118	979.201	1145.646	44.129
119	985.146	1147.111	44.064
120	990.385	1143.942	44.186
121	991.850	1137.996	44.376
122	988.680	1132.757	44.164
123	982.735	1131.294	44.093
124	979.913	1136.240	44.348
125	978.998	1139.955	44.517
126	980.978	1143.229	44.344
127	984.694	1144.145	44.279
128	987.969	1142.165	44.401
129	988.884	1138.448	44.590
130	986.903	1135.174	44.378
131	983.187	1134.259	44.308
132	896.344	1147.527	42.456
133	896.295	1150.177	42.425
134	898.595	1150.210	42.507

SERVICES LOCATION SCHEDULE

STREET NAME	TELECOM	GAS	WATER	ELECTRICITY	KERB
COASTAL BOULEVARD (28.5m)	0.40 S	2.10 N	2.70 N/4.80 S	1.10 S	VARIABLE

AS CONSTRUCTED PLANS

CONTRACTOR SIGNATURE: CONSULTANT SIGNATURE:

DATE: 10/07/17

DATE: 10/07/17

CURVE SETOUT DETAIL

(NOT TO SCALE)



Peter Berry & Associates Pty. Ltd.
Civil Engineers

153 Yarra Street
Geelong Victoria 3220
Telephone: 5223 2799

KINGSTON DOWNS ESTATE
STAGE 32

MUNICIPALITY
GREATER GEELONG

REFERENCE
0211 E/32

SHEET 17 OF 32

- NOTE:
1. ALL LINEMARKING AND ROAD SIGNS ARE TO BE TO VICROAD STANDARDS.
 2. UNLESS OTHERWISE NOTED ALL MEDIAN KERBING TO BE B3 TYPE
 2. CONTOUR INTERVAL 0.2m.

INTERSECTION DETAIL

SCALE (A1) 1 : 200

CONTOUR INTERVAL 0.10 m

CURVE SETOUT TABLE								
CURVE	RADIUS (m)	I	T	ARC	a	b	c	d
17	70.00	4°17'35"	2.624	5.245	2.622	0.049	1.311	0.812
18	20.00	4°0'26'03"	7.365	14.114	6.912	1.232	3.510	0.310
19	16.95	89°10'36"	16.708	26.381	11.899	4.879	6.430	1.267
20	21.00	27°05'49"	5.060	9.932	4.920	0.584	2.477	0.147
21	70.00	17°21'08"	10.682	21.200	10.559	0.801	5.295	0.201
22	44.53	11°23'10"	4.439	8.848	4.417	0.228	2.211	0.055
23	50.00	8°28'37"	3.706	7.398	3.695	0.137	1.849	0.034
24	23.00	77°26'47"	18.442	31.089	14.388	5.056	7.625	1.301
25	60.00	3°50'58"	2.016	4.031	2.815	0.034	1.008	0.008
26	90.15	2°23'07"	1.877	3.753	1.876	0.020	0.938	0.005
27	90.15	2°44'47"	2.161	4.321	2.160	0.026	1.080	0.006
28	50.00	11°16'36"	4.936	9.841	4.912	0.242	2.459	0.061
29	19.00	66°53'26"	12.550	22.182	10.472	3.146	5.447	0.804
30	50.00	12°03'37"	5.282	10.524	5.253	0.277	2.630	0.069
31	75.30	4°19'41"	2.845	5.688	2.843	0.054	1.422	0.013
32	55.30	7°32'56"	3.648	7.286	3.640	0.120	1.821	0.030
33	175.97	4°13'58"	66.904	127.868	62.537	11.487	31.792	2.896
34	163.97	4°13'58"	62.342	119.149	58.272	10.704	29.624	2.698

NOTE: ALL CURVE RADII LABELLED THUS - [] ARE TO BACK OF KERB

CURVE SETOUT DETAIL

(NOT TO SCALE)

RAISED PAVEMENT PLAN

(NOT TO SCALE)

CONCRETE EDGE STRIP SECTION

(NOT TO SCALE)

TYPICAL SECTION - ROUNDABOUT

(NOT TO SCALE)

- PAVEMENT COMPOSITION (CONCRETE ROUNDABOUT/TRAFFIC ISLAND INFILLS) -
- i) 175mm COMPACTED DEPTH REINFORCED (F72 MESH), 32MPa CONCRETE, VIBRATED AND PROPERLY CURED IN ACCORDANCE WITH THE APPROPRIATE AUSTRALIAN STANDARD CODE.
 - ii) 150mm COMPACTED DEPTH CLASS 3 20mm FCR.
- a) REINFORCEMENT IS TO BE ADEQUATELY SUPPORTED BY APPROPRIATE SIZED CHAIRS PRIOR TO THE POURING/PLACEMENT OF CONCRETE.
- b) CONCRETE PAVEMENT TO BE CAST MONOLITHICALLY.

SERVICES LOCATION SCHEDULE

STREET NAME	TELECOM	GAS	WATER	ELECTRICITY	KERB
COASTAL BOULEVARD (28.5m)	0.40 S	2.10 N	2.70 N/4.80 S	1.10 S	VARIABLE
COASTAL BOULEVARD (24m)	1.90 S	2.10 N	2.70 N	2.60 S	VARIABLE
PARKSIDE BOULEVARD	1.90 W	2.10 E	2.70 E	2.50 W	4.00



AS CONSTRUCTED PLANS

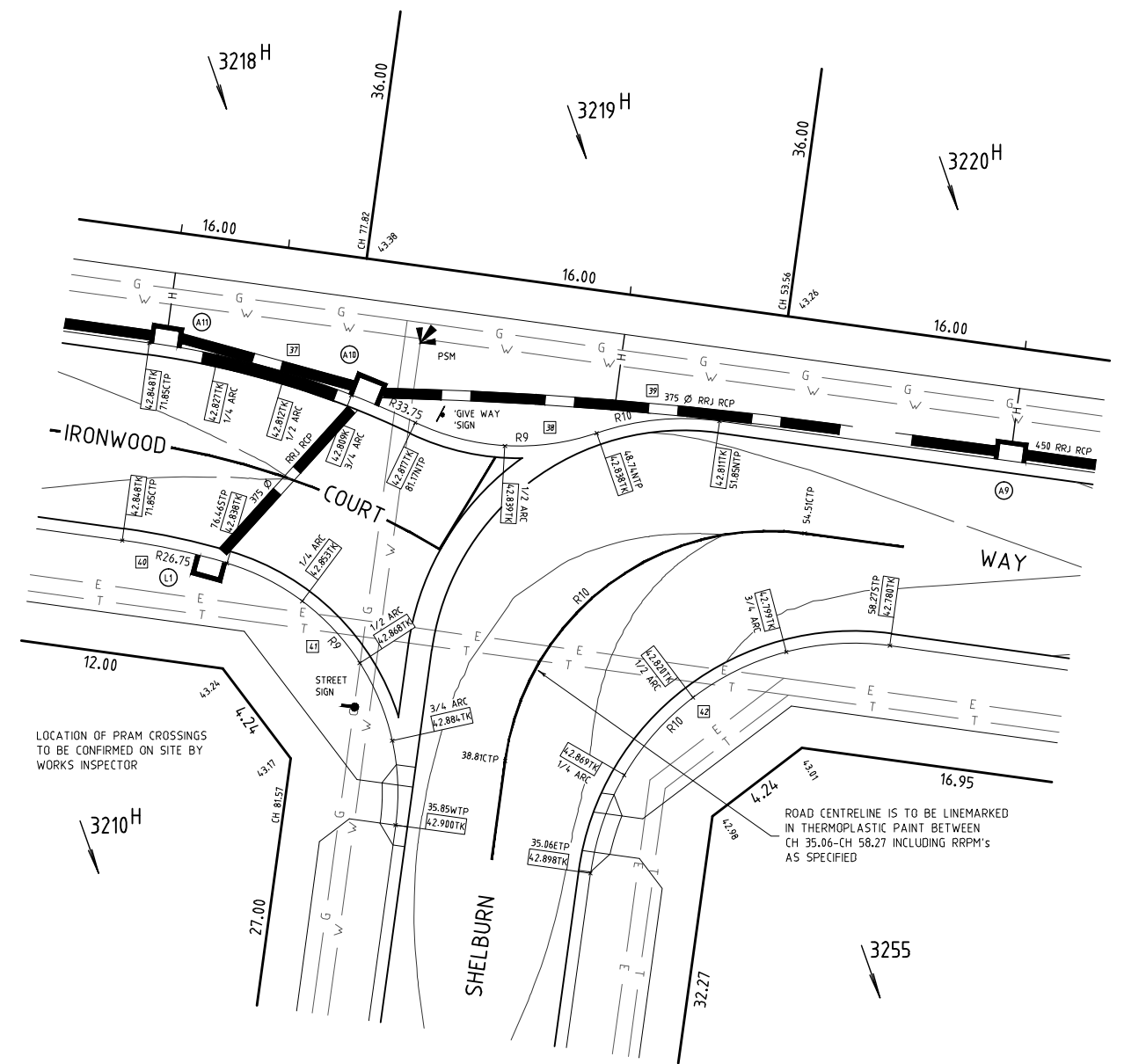
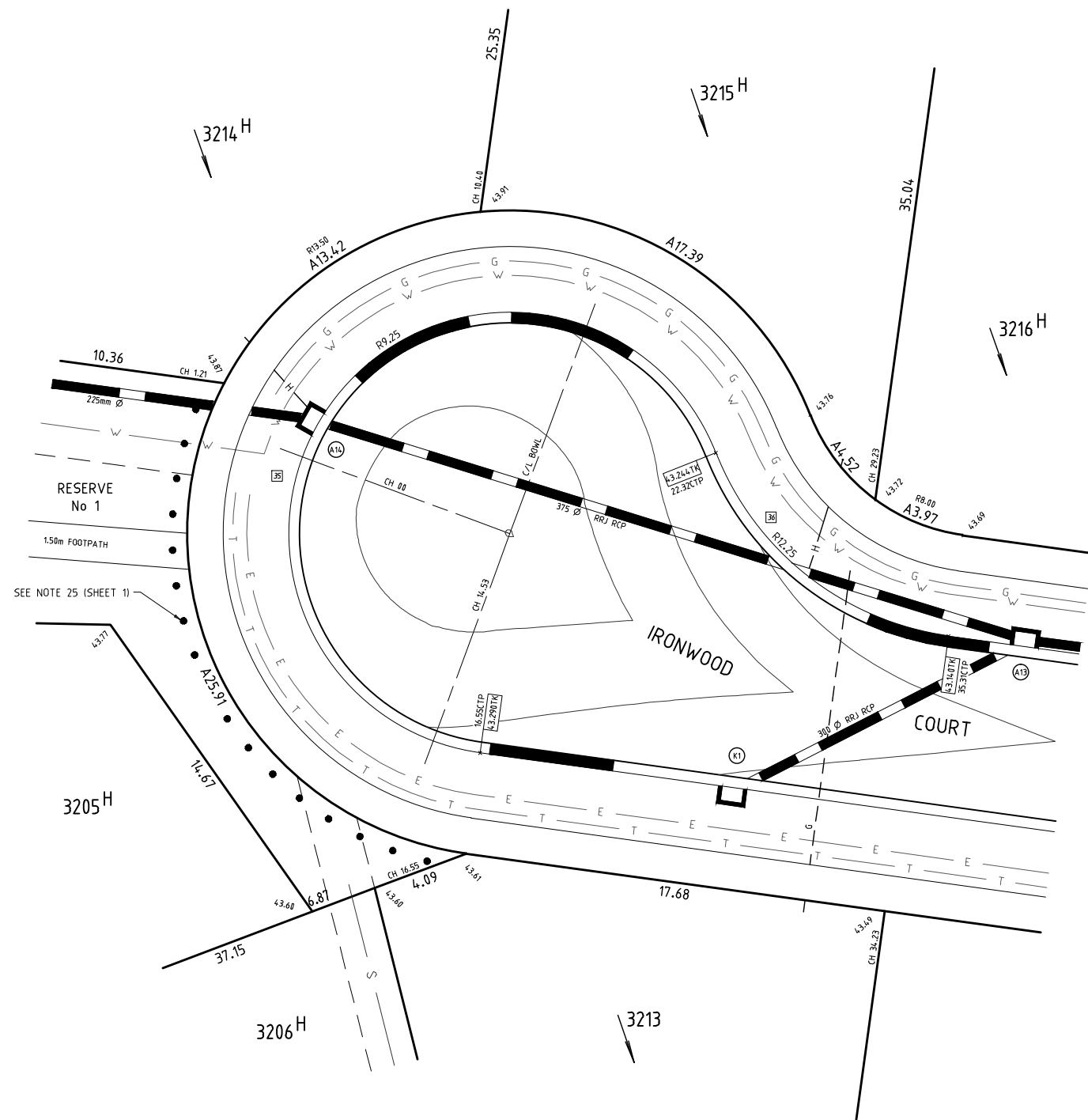
CONTRACTOR SIGNATURE:

CONSULTANT SIGNATURE:

DATE: 10/07/17

DATE: 10/07/17

AMENDMENTS			 Peter Berry & Associates Pty. Ltd. Civil Engineers		153 Yarra Street Geelong Victoria 3220 Telephone: 5223 2799		
	10.07.17	AS CONSTRUCTED	MELWAY REF.	KINGSTON DOWNS ESTATE STAGE 32			MUNICIPALITY
	22.11.16	VERSION C	SURVEYED				GREATER GEELONG
DATE	DESCRIPTION	DESIGNED P.J.B.	REFERENCE				
A1		DRAWN C.S.				0211 ^E / ₃₂	
1 : 200  METRES			CHECKED	SCALE AS SHOWN	DATUM AHD	DATE JUL '16	SHEET 18 OF 32



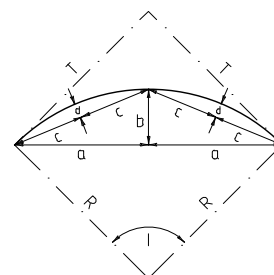
INTERSECTION DETAILS

SCALE (A1) 1 : 125

CONTOUR INTERVAL 0.10 m

CURVE	RADIUS (m)	I	T	ARC	a	b	c	d
35	9.25	24°4'50"10"	15.755	38.881	7.977	13.933	8.028	4.654
36	12.25	60°4'5'59"	7.182	12.992	6.196	1.682	3.210	0.428
37	33.75	17°4'7'35"	5.283	10.481	5.219	0.436	2.618	0.102
38	9.00	44°3'7'13"	3.693	7.809	3.417	0.674	1.741	0.170
39	10.00	26°4'9'37"	2.385	4.682	2.320	0.273	1.168	0.068
40	26.25	8°4'7'52"	2.019	4.831	2.013	0.077	1.007	0.019
41	9.00	81°12'08"	7.714	12.755	5.857	2.167	3.123	0.559
42	10.00	90°0'0'00"	10.00	15.708	7.071	2.929	3.827	0.761

NOTE: ALL CURVE RADII LABELLED THUS - [] ARE TO BACK OF KERB

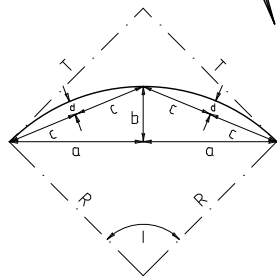
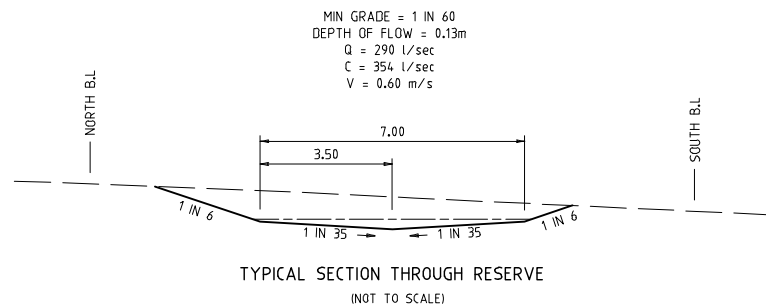
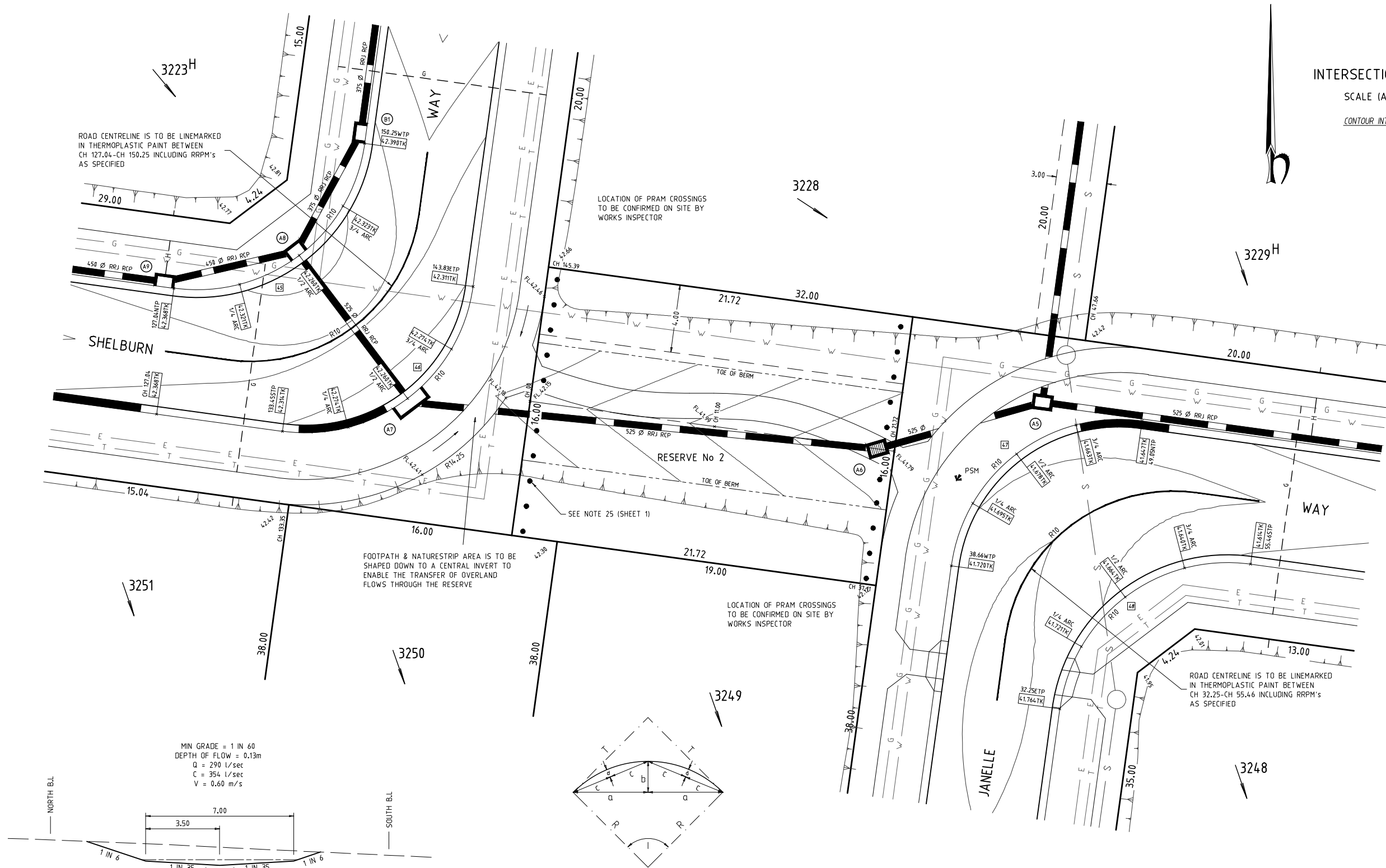


CURVE SETOUT DETAIL
(NOT TO SCALE)

STREET NAME	TELECOM	GAS	WATER	ELECTRICITY	KERB
IRONWOOD COURT	1.90 S	2.10 N	2.70 N	2.50 S	4.25
SHELburn WAY	1.90 E & S	2.10 W & N	2.70 W & N	2.50 E & S	4.25

AS CONSTRUCTED PLANS	
CONTRACTOR SIGNATURE:	CONSULTANT SIGNATURE:
DATE: 10/07/17	DATE: 10/07/17

AMENDMENTS		Peter Berry & Associates Pty. Ltd. Civil Engineers 153 Yarra Street Geelong Victoria 3220 Telephone: 5223 2799	KINGSTON DOWNS ESTATE STAGE 32	MUNICIPALITY GREATER GEELONG REFERENCE 0211 E/32 SHEET 19 OF 32	
	10.07.17				AS CONSTRUCTED
	22.11.16				VERSION C
	DATE				DESCRIPTION
A1	1:125 2.5 1.25 0 2.5 5 7.5 METRES	MELWAY REF. SURVEYED DESIGNED P.J.B. DRAWN C.S. CHECKED	SCALE AS SHOWN DATUM AHD DATE JUL '16		



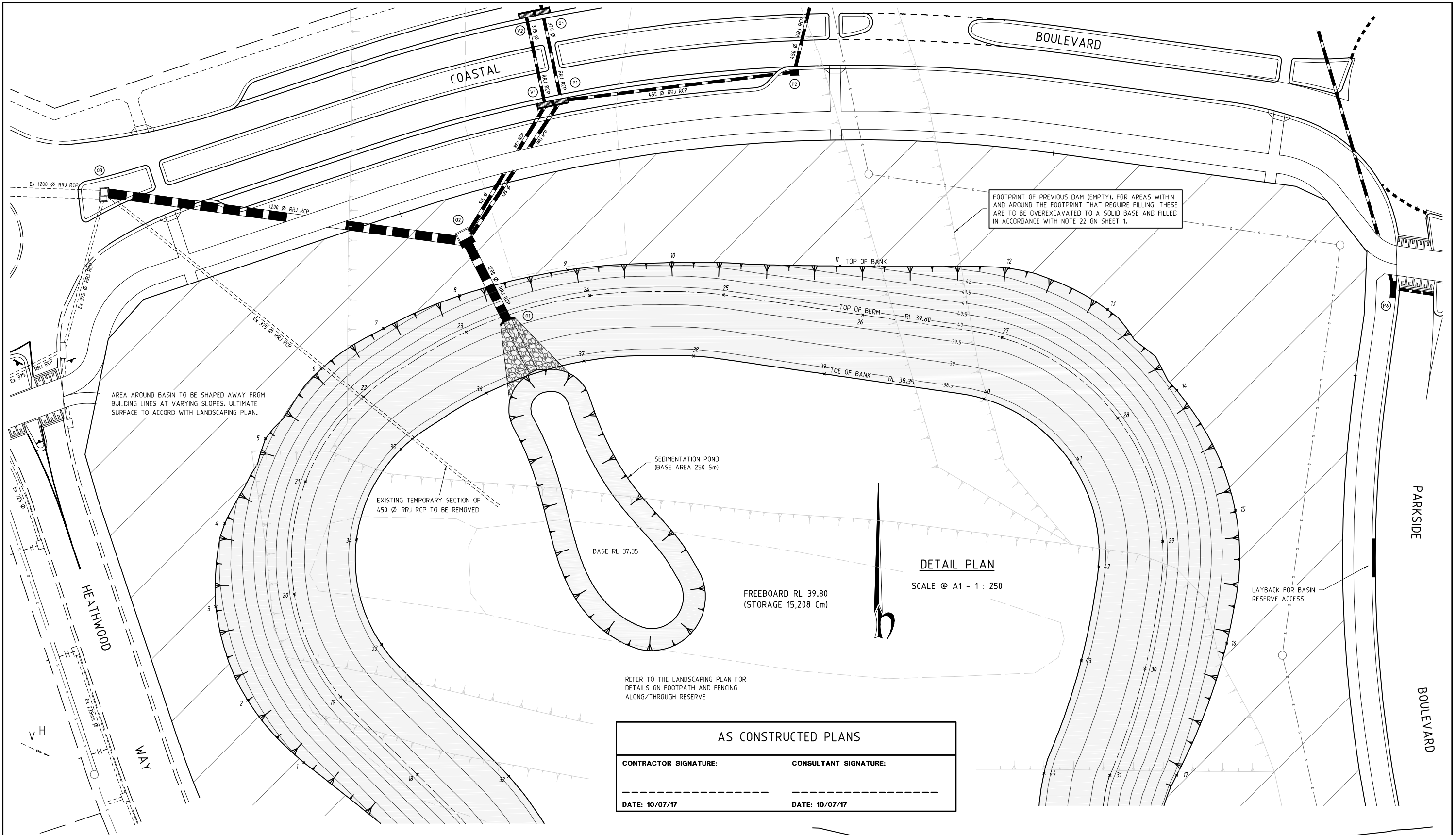
CURVE SETOUT TABLE							
CURVE	RADIUS (m)	L	T	ARC	a	b	c
4.5	10.00	98°00'00"	10.000	15.708	7.071	2.929	3.827
4.6	10.00	98°00'00"	10.000	15.708	7.071	2.929	3.827
4.7	10.00	98°00'00"	10.000	15.708	7.071	2.929	3.827
4.8	10.00	98°00'00"	10.000	15.708	7.071	2.929	3.827

NOTE: ALL CURVE RADII LABELLED THUS - [] ARE TO BACK OF KERB

SERVICES LOCATION SCHEDULE					
STREET NAME	TELECOM	GAS	WATER	ELECTRICITY	KERB
SHELBURN WAY	1.90 E & S	2.10 W & N	2.70 W & N	2.50 E & S	4.25
JANELLE WAY	1.90 E & S	2.10 W & N	2.70 W & N	2.50 E & S	4.25

AS CONSTRUCTED PLANS	
CONTRACTOR SIGNATURE: _____	CONSULTANT SIGNATURE: _____
DATE: 10/07/17	DATE: 10/07/17

AMENDMENTS			Peter Berry & Associates Pty. Ltd. Civil Engineers		153 Yarra Street Geelong Victoria 3220 Telephone: 5223 2799	
	10.07.17	AS CONSTRUCTED	MELWAY REF.	KINGSTON DOWNS ESTATE STAGE 32		
	22.11.16	VERSION C	SURVEYED			
A1	DATE	DESCRIPTION	DESIGNED P.J.B	REFERENCE 0211 E/32		
			DRAWN C.S.			
			CHECKED	SCALE AS SHOWN	DATUM AHD	
1:125 2.5 1.25 0 2.5 5 7.5 METRES			DATE JUL '16	SHEET 20 OF 32		



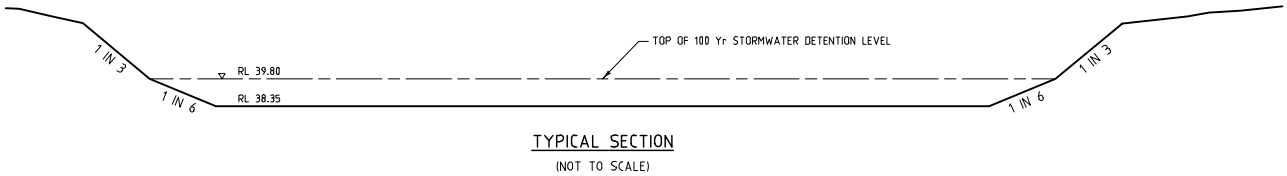
AS CONSTRUCTED PLANS	
CONTRACTOR SIGNATURE:	CONSULTANT SIGNATURE:
DATE: 10/07/17	DATE: 10/07/17

BASIN SETOUT SCHEDULE

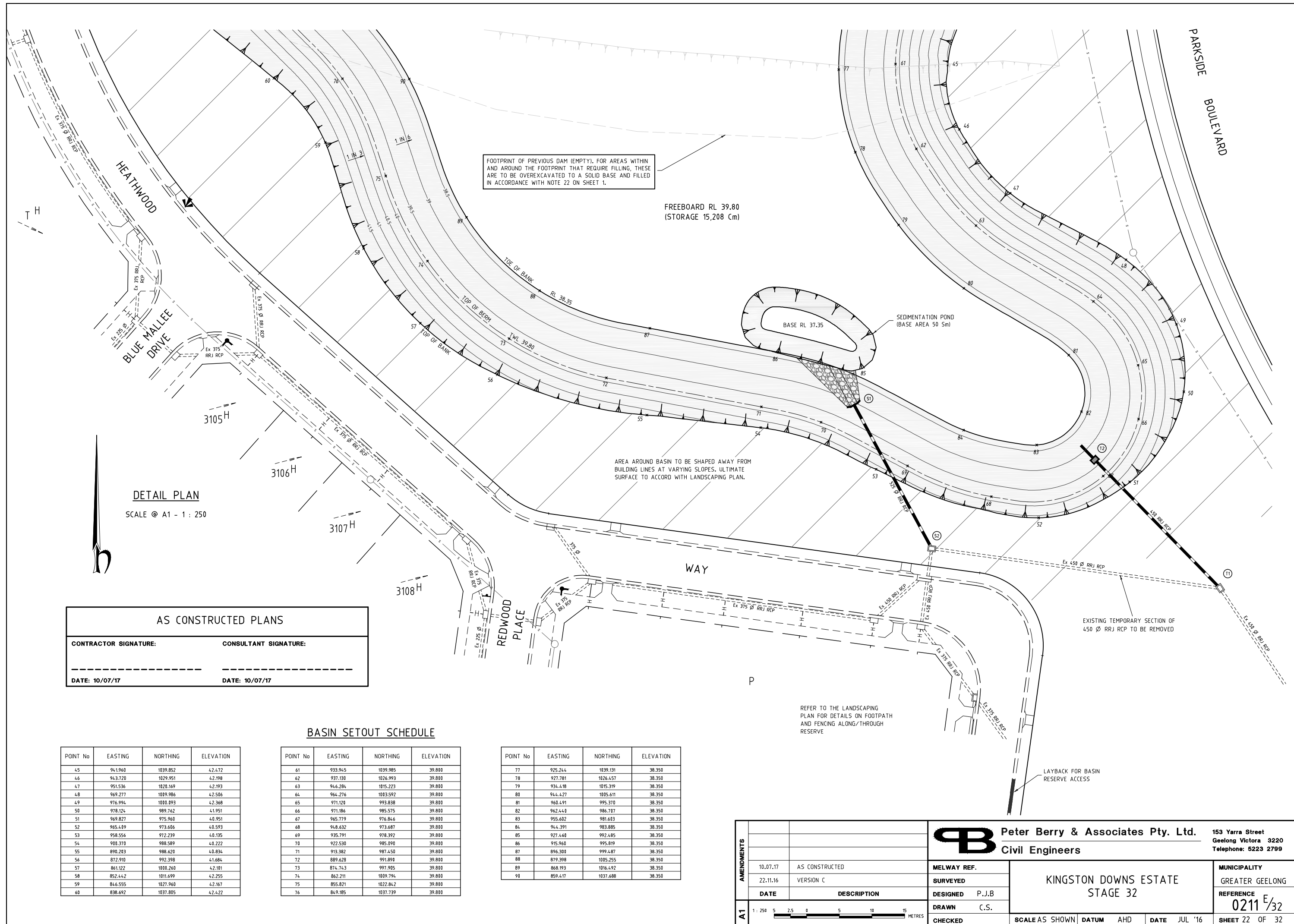
POINT No	EASTING	NORTHING	ELEVATION
1	825.218	1048.571	43.039
2	817.551	1057.055	43.410
3	813.204	1069.782	43.412
4	814.427	1081.142	42.926
5	819.958	1092.670	42.250
6	827.574	1102.288	42.042
7	836.039	1107.681	41.781
8	846.425	1112.172	41.422
9	861.151	1115.664	41.103
10	875.390	1116.698	41.116
11	898.272	1116.206	41.852
12	921.273	1115.901	42.920
13	934.716	1110.270	43.067
14	944.158	1099.274	42.718
15	952.125	1082.928	43.226

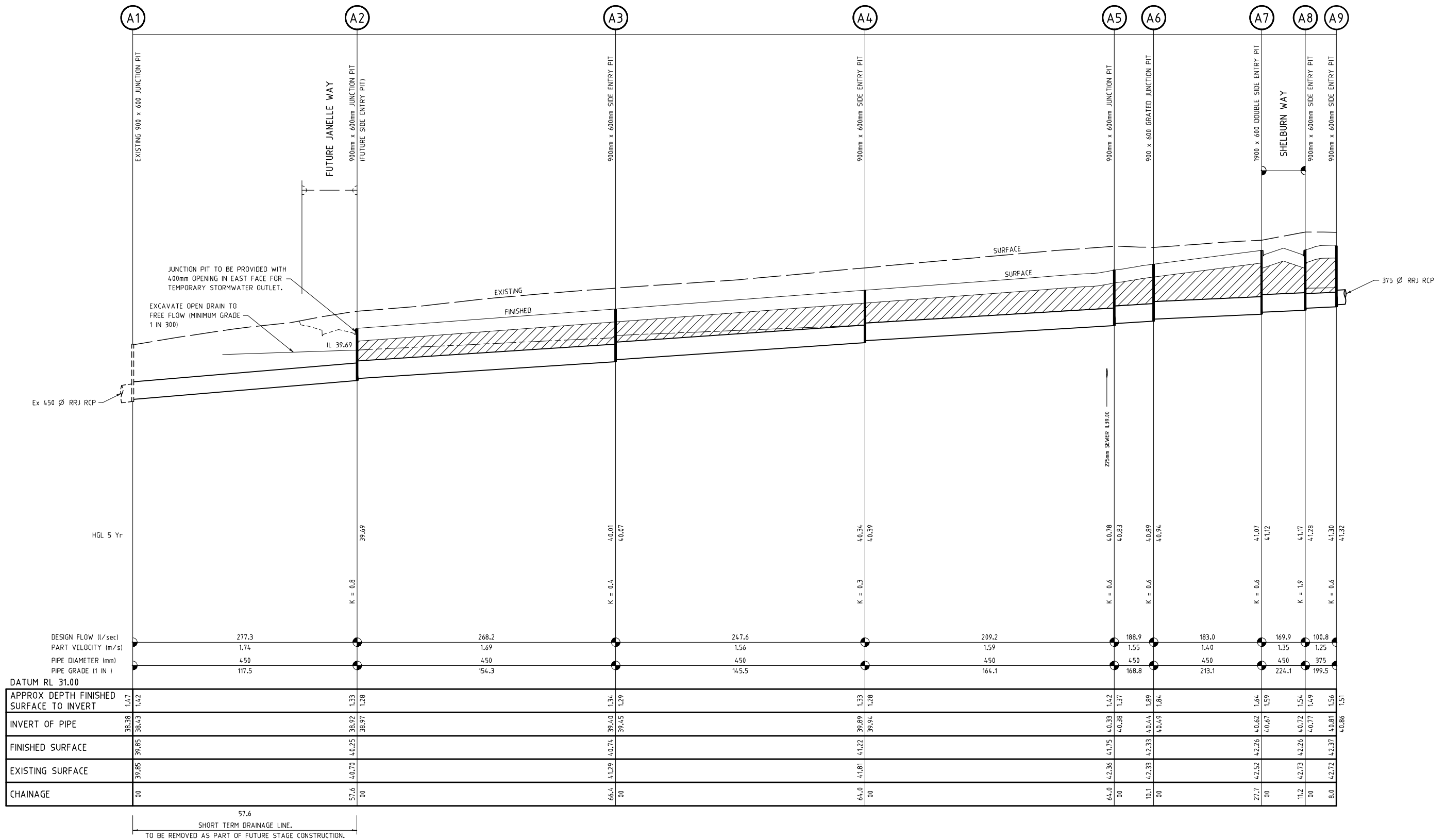
POINT No	EASTING	NORTHING	ELEVATION
16	950.941	1064.822	43.175
17	944.129	1046.823	42.612
18	840.684	1046.910	39.800
19	830.225	1057.513	39.800
20	823.897	1071.531	39.800
21	825.428	1086.834	39.800
22	833.336	1098.399	39.800
23	847.320	1107.235	39.800
24	864.154	1112.178	39.800
25	882.389	1112.283	39.800
26	901.346	1109.539	39.800
27	920.352	1106.450	39.800
28	936.116	1095.474	39.800
29	942.228	1078.673	39.800
30	939.829	1061.330	39.800

POINT No	EASTING	NORTHING	ELEVATION
31	935.039	1046.804	39.800
32	853.145	1046.692	38.350
33	835.766	1064.630	38.350
34	832.367	1078.914	38.350
35	838.430	1091.247	38.350
36	851.089	1098.917	38.350
37	863.354	1103.248	38.350
38	878.386	1103.941	38.350
39	896.137	1101.505	38.350
40	917.864	1098.113	38.350
41	929.743	1089.435	38.350
42	933.496	1075.211	38.350
43	931.136	1062.437	38.350
44	926.860	1047.072	38.350



AMENDMENTS	10.07.17	AS CONSTRUCTED	MELWAY REF.	Peter Berry & Associates Pty. Ltd. Civil Engineers	153 Yarra Street Geelong Victoria 3220 Telephone: 5223 2799	MUNICIPALITY GREATER GEELONG	
	22.11.16	VERSION C	SURVEYED				
	DATE	DESCRIPTION	DESIGNED P.J.B				
	DRAWN C.S.						
A1	1: 250	5 2.5 0 5 10 15 METRES	CHECKED	SCALE AS SHOWN	DATUM AHD	DATE JUL '16	REFERENCE 0211 E/32



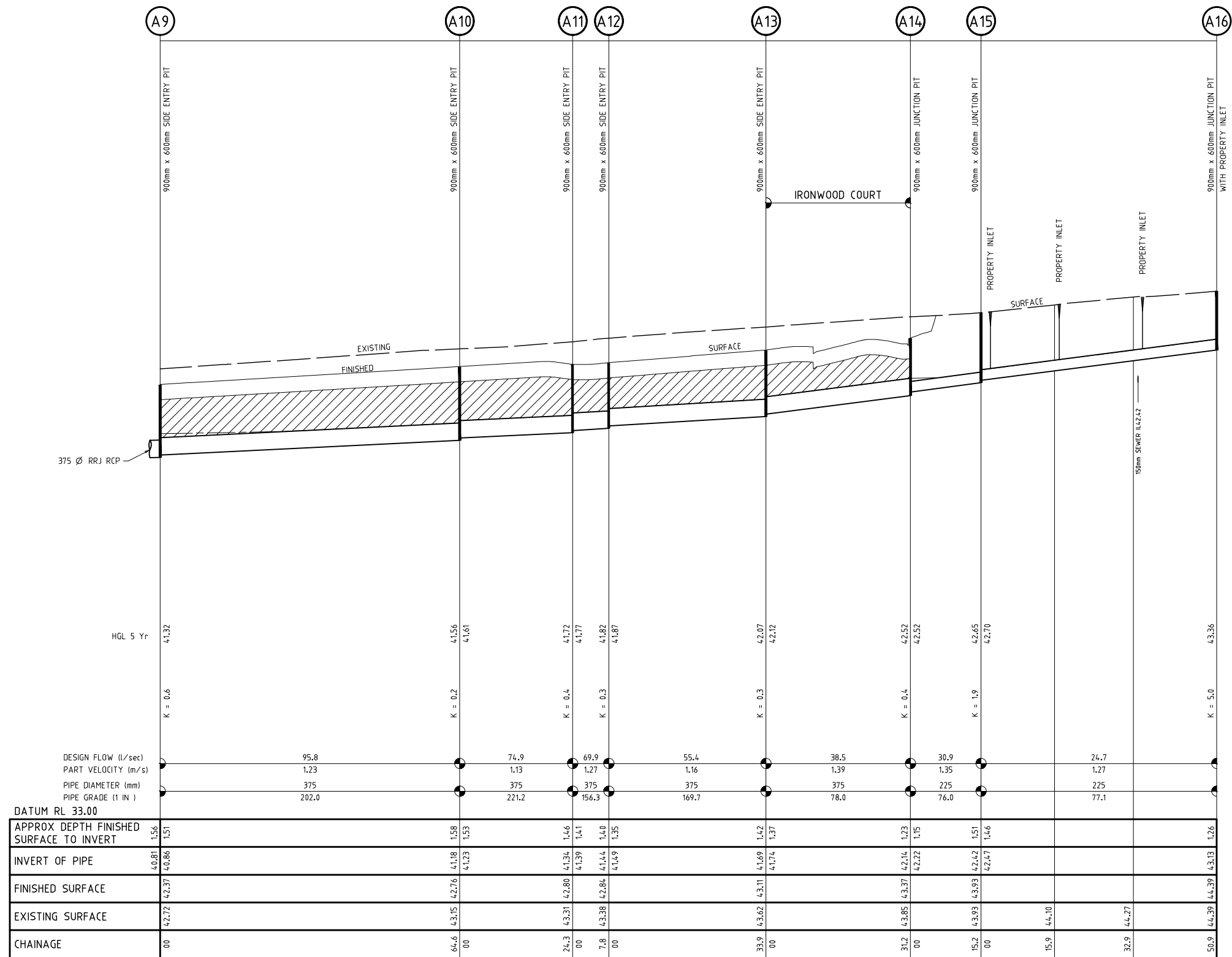


NOTE
ALL SUMPS IN PRECAST PITS ARE TO BE INFILLED
WITH CONCRETE FLUSH TO THE INVERT LEVEL OF
THE OUTLET PIPE.

AS CONSTRUCTED PLANS	
CONTRACTOR SIGNATURE:	CONSULTANT SIGNATURE:
DATE: 10/07/17	DATE: 10/07/17



AMENDMENTS		Peter Berry & Associates Pty. Ltd. Civil Engineers		153 Yarra Street Geelong Victoria 3220 Telephone: 5223 2799		
10.07.17	AS CONSTRUCTED	MELWAY REF.	KINGSTON DOWNS ESTATE STAGE 32		MUNICIPALITY GREATER GEELONG	
22.11.16	VERSION C	SURVEYED			REFERENCE 0211 E/32	
DATE	DESCRIPTION	DESIGNED P.J.B.			SHEET 23 OF 32	
A1	1: 500 10 5 0 10 20 30 1: 50 1 0.5 0 1 2 3 METRES	DRAWN C.S.	CHECKED	SCALE AS SHOWN	DATUM AHD	DATE JUL '16



NOTE
ALL SUMPS IN PRECAST PITS ARE TO BE INFILLED
WITH CONCRETE FLUSH TO THE INVERT LEVEL OF
THE OUTLET PIPE.

DRAINAGE

LONGITUDINAL

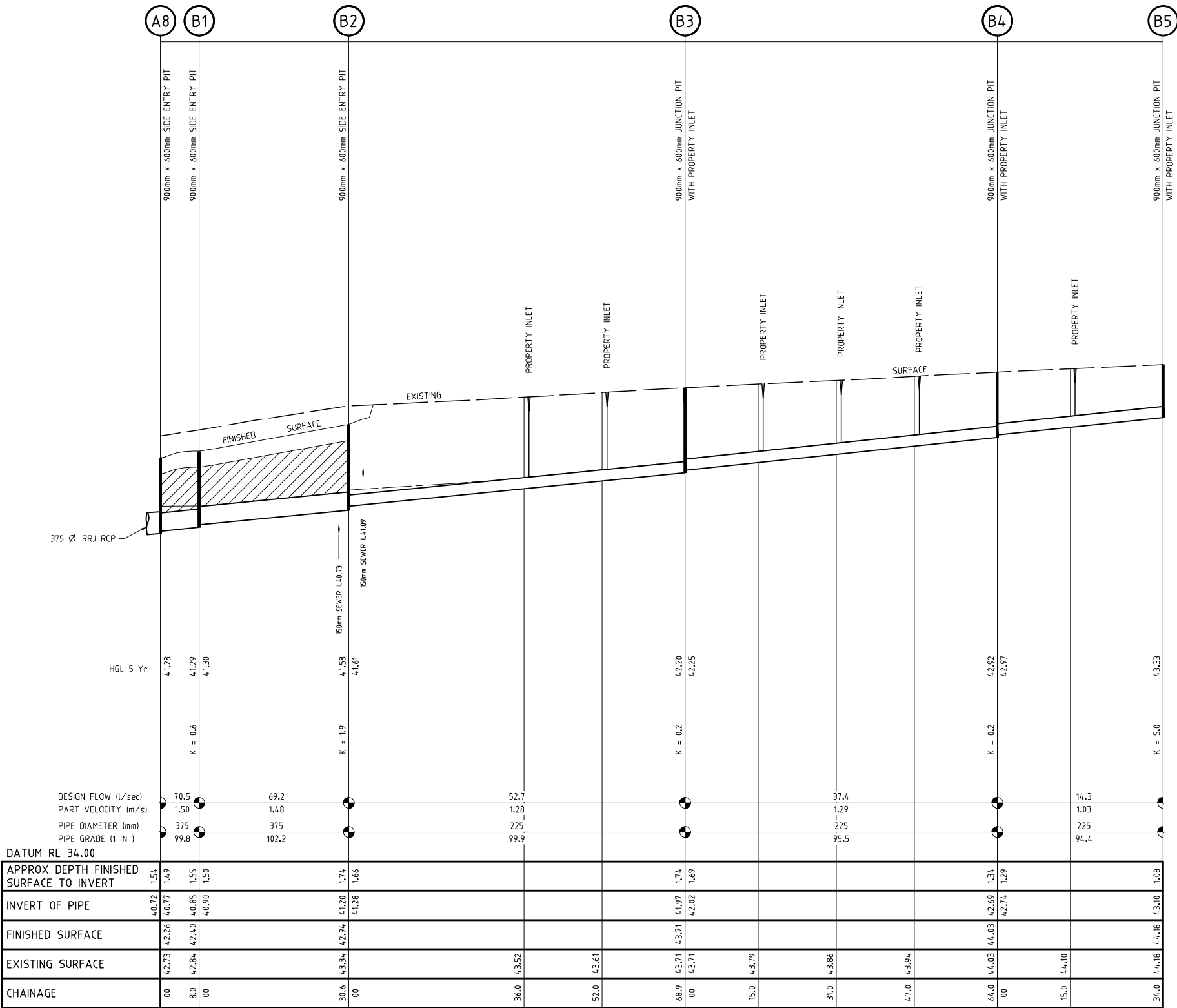
SECTION

SCALES - HORIZ. 1 : 500
VERT. 1 : 50

AS CONSTRUCTED PLANS	
CONTRACTOR SIGNATURE:	CONSULTANT SIGNATURE:
DATE: 10/07/17	DATE: 10/07/17

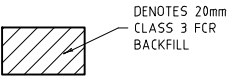


AMENDMENTS		Peter Berry & Associates Pty. Ltd. Civil Engineers		153 Yarra Street Geelong Victoria 3220 Telephone: 5223 2799		
10.07.17	AS CONSTRUCTED	MELWAY REF.	KINGSTON DOWNS ESTATE STAGE 32		MUNICIPALITY GREATER GEELONG	
22.11.16	VERSION C	SURVEYED			REFERENCE 0211 E/32	
DATE	DESCRIPTION	DESIGNED P.J.B			SHEET 24 OF 32	
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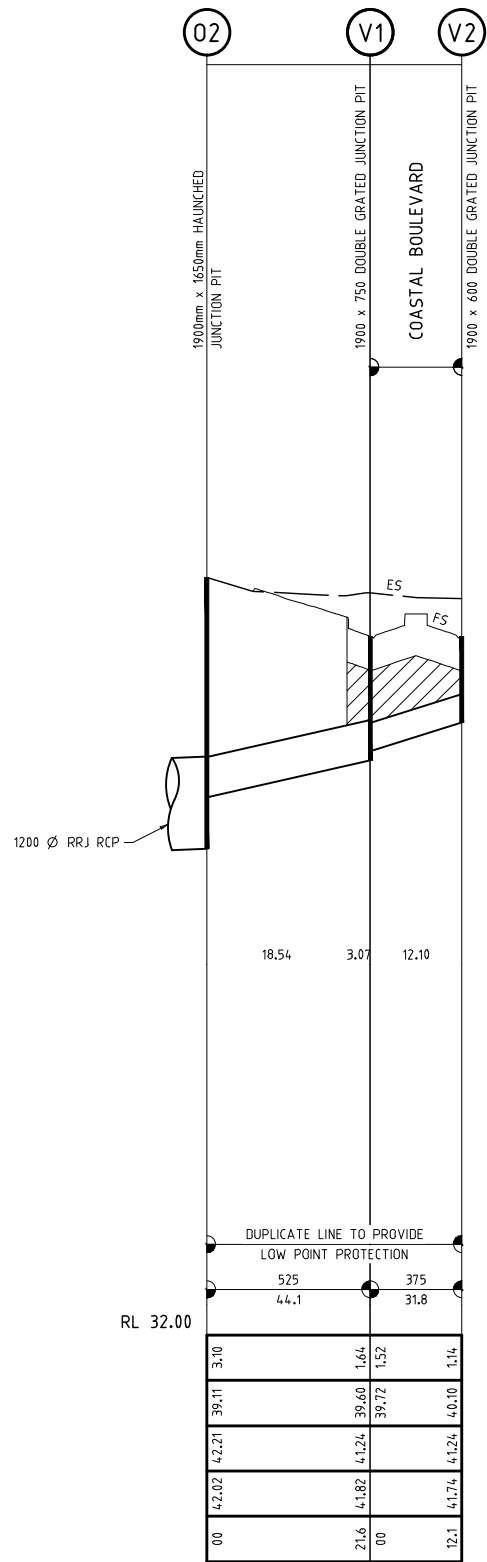
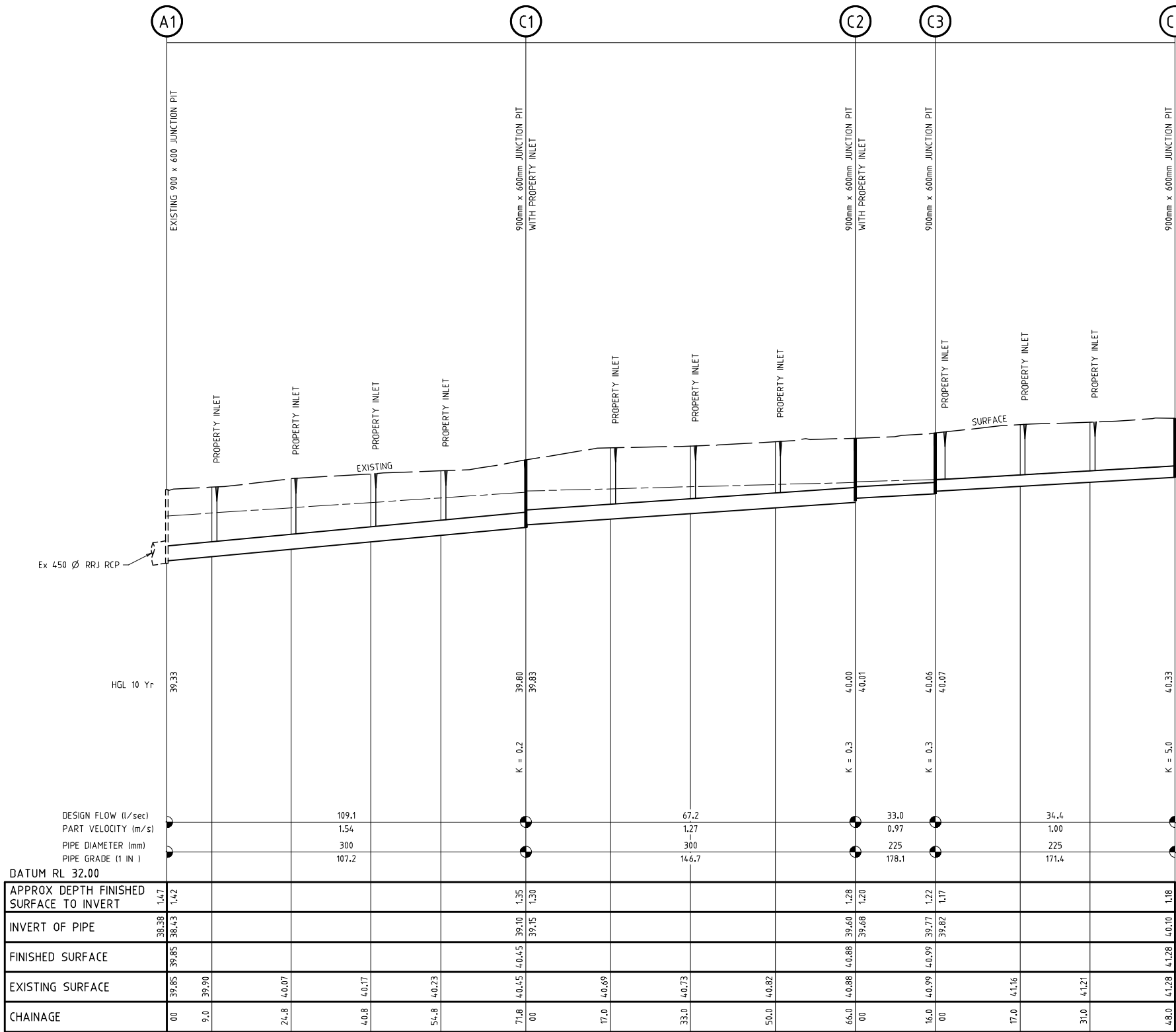
NOTE
ALL SUMPS IN PRECAST PITS ARE TO BE INFILLED
WITH CONCRETE FLUSH TO THE INVERT LEVEL OF
THE OUTLET PIPE.

AS CONSTRUCTED PLANS	
CONTRACTOR SIGNATURE:	CONSULTANT SIGNATURE:
DATE: 10/07/17	DATE: 10/07/17



DRAINAGE
LONGITUDINAL
SECTIONS
SCALES - HORIZ. 1 : 500
VERT. 1 : 50

AMENDMENTS			Peter Berry & Associates Pty. Ltd. Civil Engineers 153 Yarra Street Geelong Victoria 3220 Telephone: 5223 2799	MUNICIPALITY GREATER GEELONG			
	10.07.17	AS CONSTRUCTED			MELWAY REF.		
	22.11.16	VERSION C			SURVEYED		
	DATE	DESCRIPTION			DESIGNED P.J.B		
A1	1 : 500	1 : 50	1 : 50	DRAWN C.S.	KINGSTON DOWNS ESTATE STAGE 32	REFERENCE 0211 E/32	
	1 : 50	1 : 50	1 : 50	CHECKED			SCALE AS SHOWN



NOTE
ALL SUMPS IN PRECAST PITS ARE TO BE INFILLED
WITH CONCRETE FLUSH TO THE INVERT LEVEL OF
THE OUTLET PIPE.

DRAINAGE

LONGITUDINAL

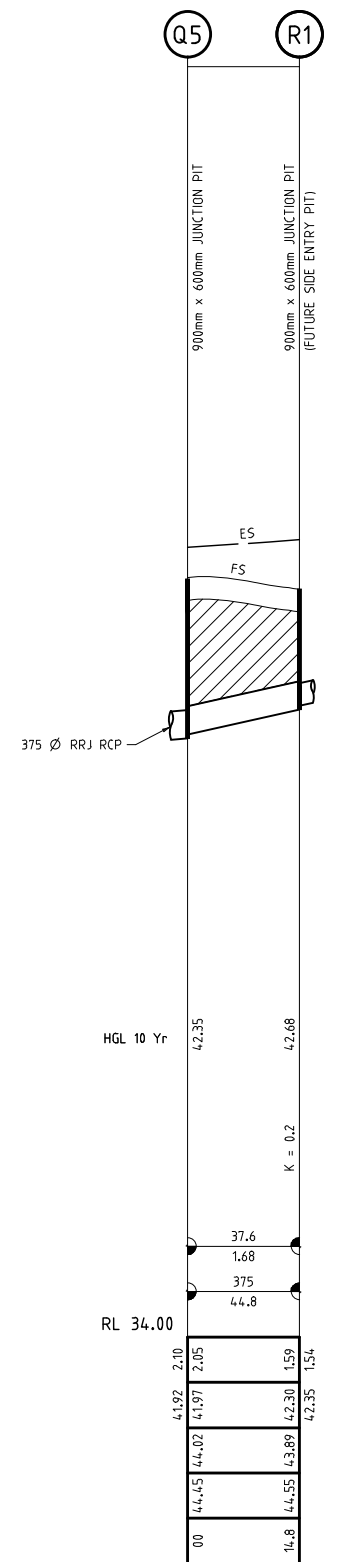
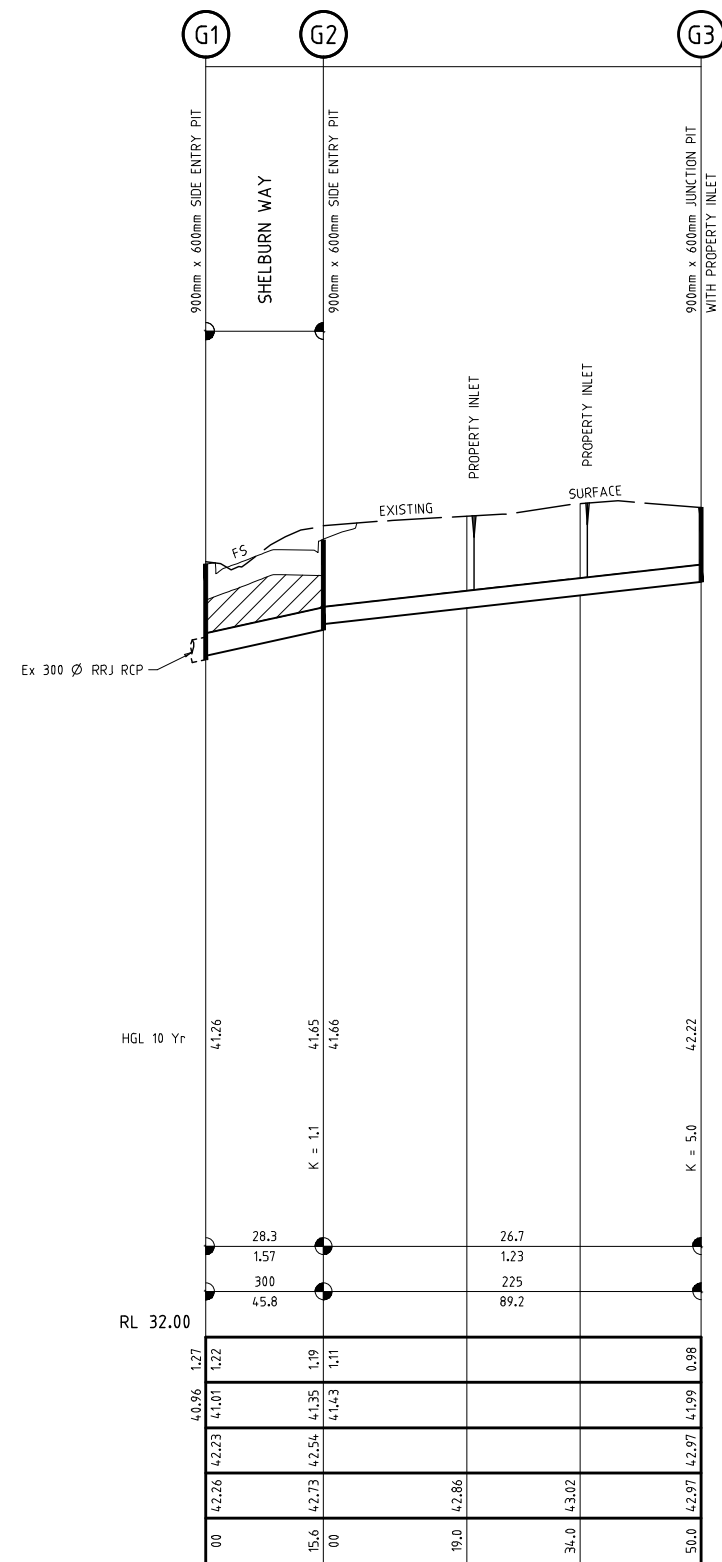
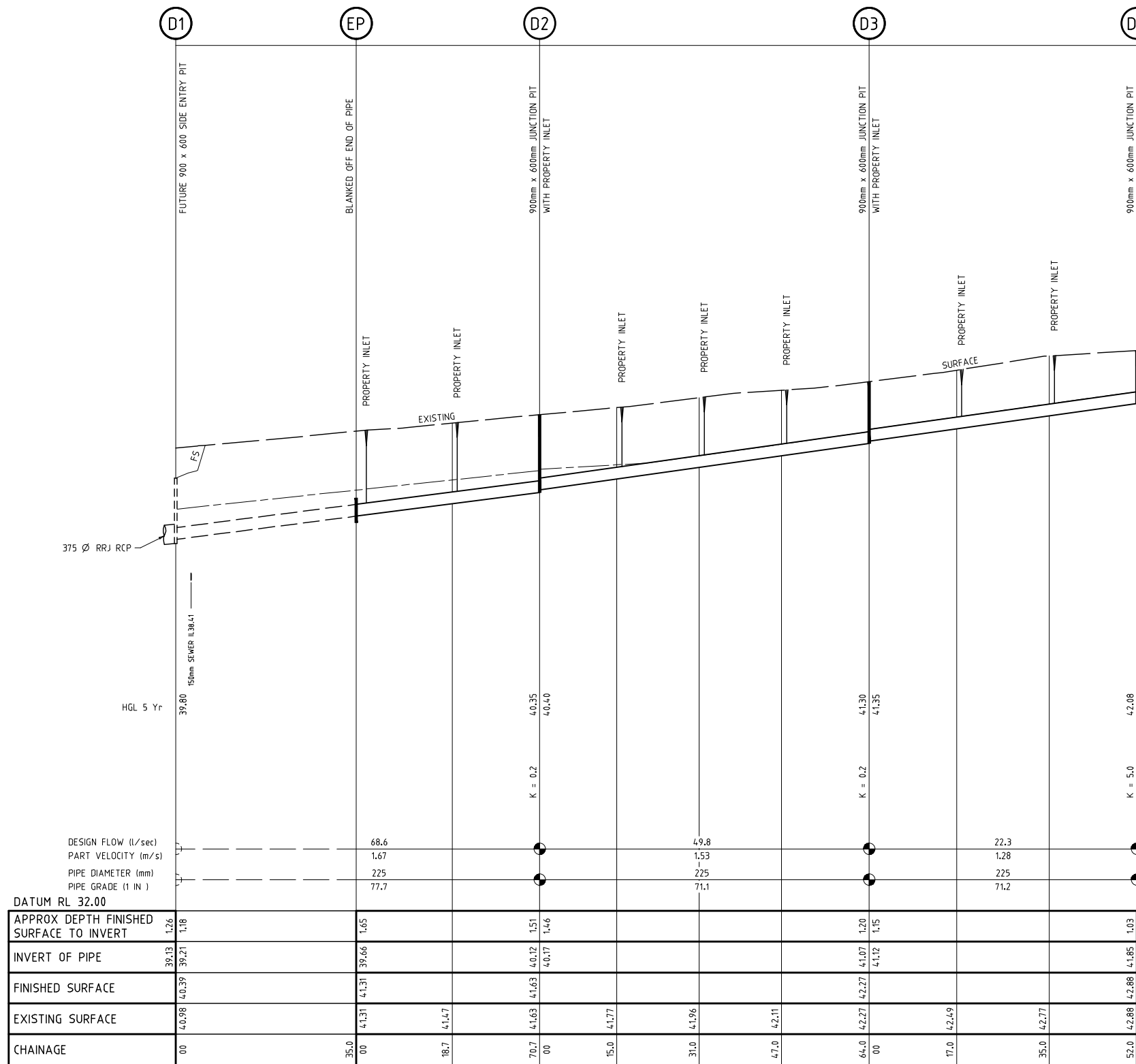
SECTIONS

SCALES - HORIZ. 1 : 500
VERT. 1 : 50

AS CONSTRUCTED PLANS	
CONTRACTOR SIGNATURE:	CONSULTANT SIGNATURE:
DATE: 10/07/17	DATE: 10/07/17



AMENDMENTS	10.07.17	AS CONSTRUCTED	MELWAY REF.	Peter Berry & Associates Pty. Ltd. Civil Engineers	153 Yarra Street Geelong Victoria 3220 Telephone: 5223 2799						
	22.11.16	VERSION C	SURVEYED								
	DATE	DESCRIPTION	DESIGNED P.J.B								
	1: 500	1: 50	1: 50			1: 50	1: 50	1: 50			
A1	1: 500	1: 50	1: 50	1: 50	1: 50	1: 50					
						KINGSTON DOWNS ESTATE STAGE 32			MUNICIPALITY GREATER GEELONG		
						REFERENCE 0211 E/32			SHEET 26 OF 32		
						SCALE AS SHOWN			DATE JUL '16		



DRAINAGE

LONGITUDINAL

SECTIONS

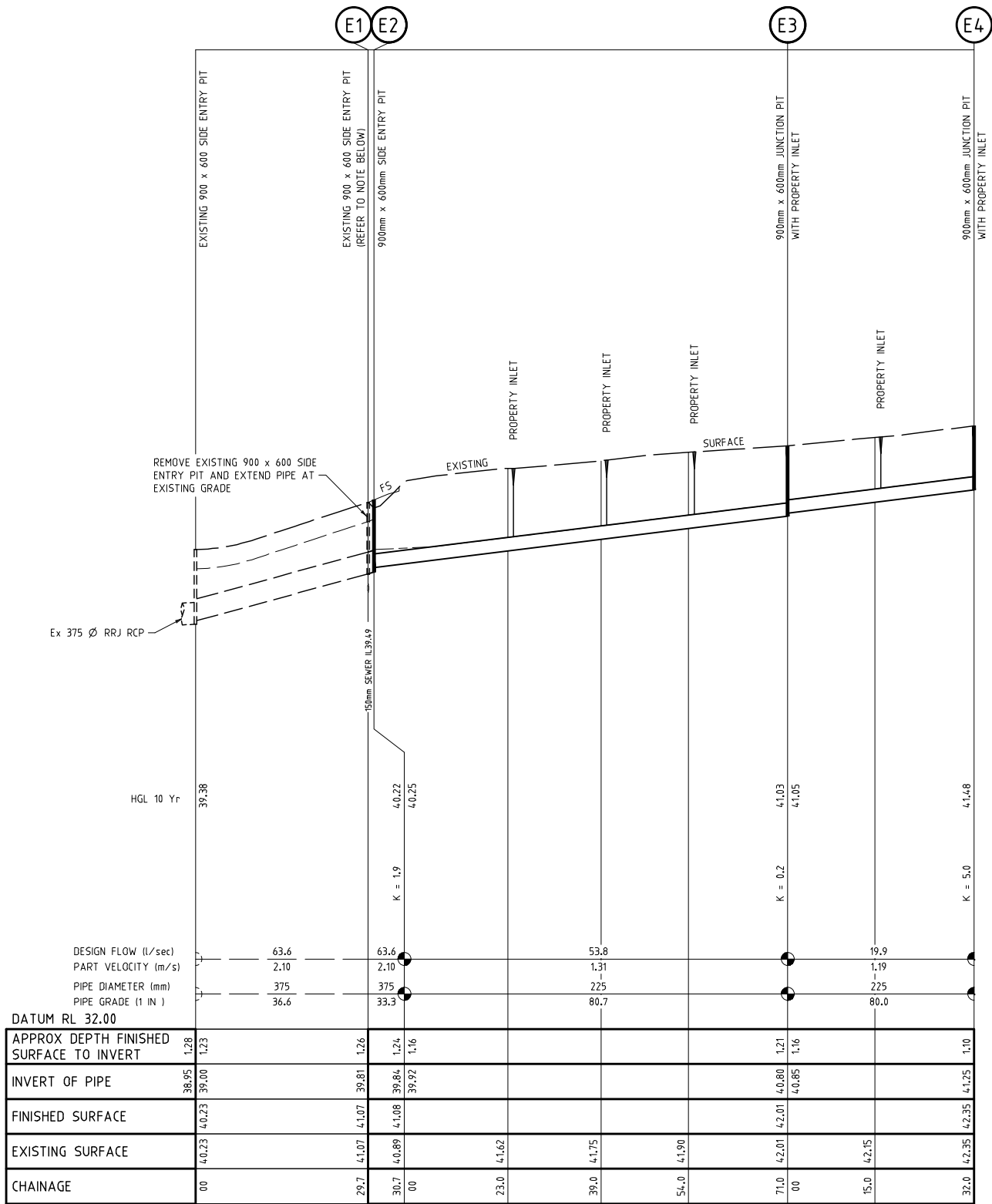
NOTE
ALL SUMPS IN PRECAST PITS ARE TO BE INFILLED
WITH CONCRETE FLUSH TO THE INVERT LEVEL OF
THE OUTLET PIPE.

SCALES - HORIZ. 1 : 500
VERT. 1 : 50

AS CONSTRUCTED PLANS	
CONTRACTOR SIGNATURE:	CONSULTANT SIGNATURE:
DATE: 10/07/17	DATE: 10/07/17



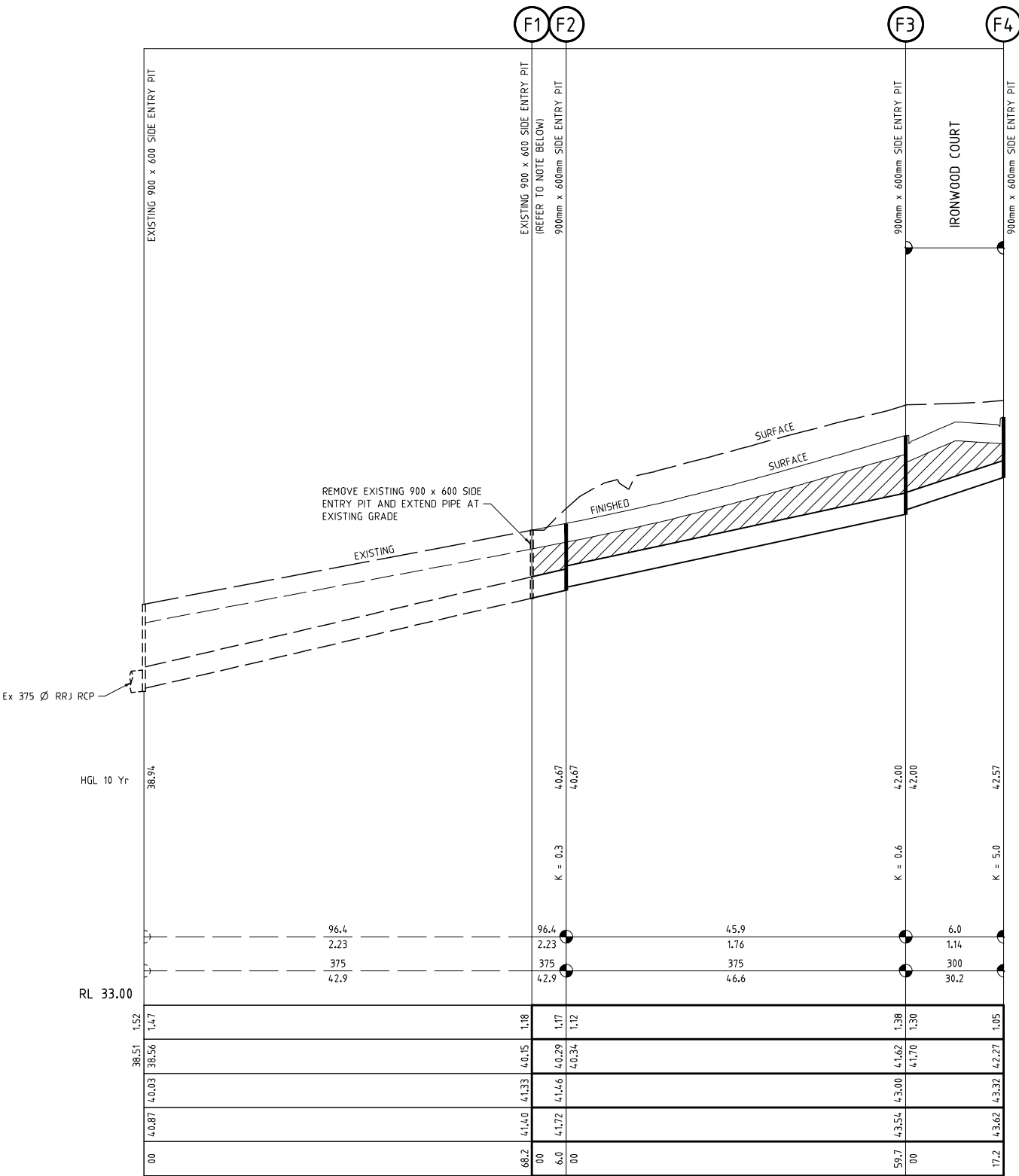
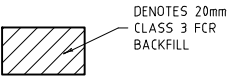
AMENDMENTS	10.07.17	AS CONSTRUCTED	MELWAY REF.	Peter Berry & Associates Pty. Ltd. Civil Engineers 153 Yarra Street Geelong Victoria 3220 Telephone: 5223 2799	KINGSTON DOWNS ESTATE STAGE 32	MUNICIPALITY
	22.11.16	VERSION C	SURVEYED			GREATER GEELONG
	DATE	DESCRIPTION	DESIGNED P.J.B			REFERENCE
	1: 500 10 5 0 10 20 30 1: 50 1 0.5 0 1 2 3 METRES	DRAWN C.S.	CHECKED			0211 E/32
SCALE AS SHOWN			DATUM AHD	DATE JUL '16	SHEET 27 OF 32	



DRAINAGE

NOTE
ALL SUMPS IN PRECAST PITS ARE TO BE INFILLED
WITH CONCRETE FLUSH TO THE INVERT LEVEL OF
THE OUTLET PIPE.

AS CONSTRUCTED PLANS	
CONTRACTOR SIGNATURE:	CONSULTANT SIGNATURE:
DATE: 10/07/17	DATE: 10/07/17

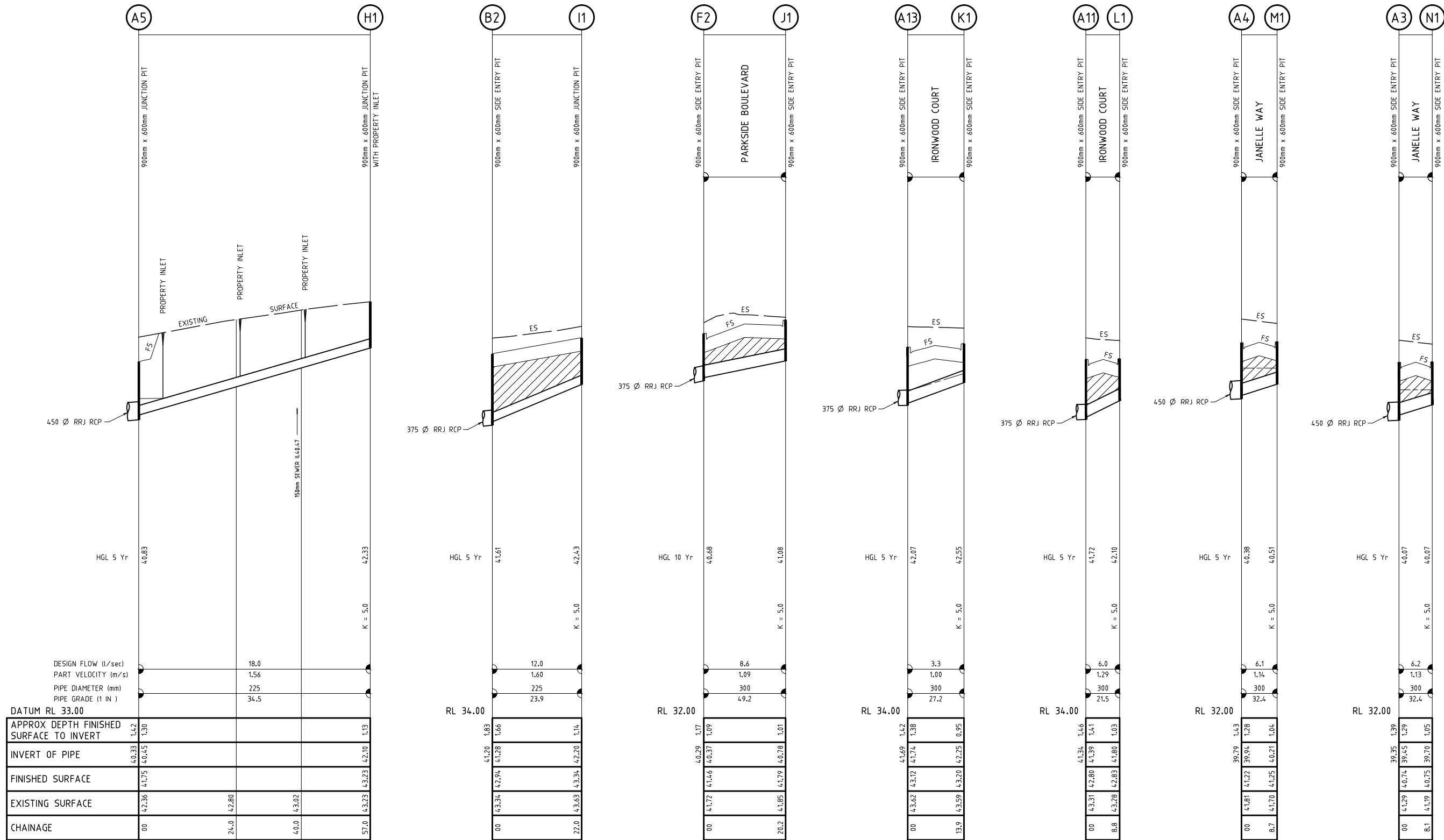


LONGITUDINAL

SCALES - HORIZ. 1 : 500
VERT. 1 : 50

SECTIONS

AMENDMENTS	10.07.17	AS CONSTRUCTED	MELWAY REF.	Peter Berry & Associates Pty. Ltd. Civil Engineers	153 Yarra Street Geelong Victoria 3220 Telephone: 5223 2799	MUNICIPALITY GREATER GEELONG					
	22.11.16	VERSION C	SURVEYED								
	DATE	DESCRIPTION	DESIGNED P.J.B								
	DRAWN C.S.										
A1	1 : 500	10 5 0 10 20 30	1 : 50	1 0.5 0 1 2 3	MEETRES	SCALE AS SHOWN	DATUM	AHD	DATE	JUL '16	REFERENCE 0211 E/32
SHEET 28 OF 32											



DRAINAGE

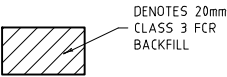
LONGITUDINAL

SECTIONS

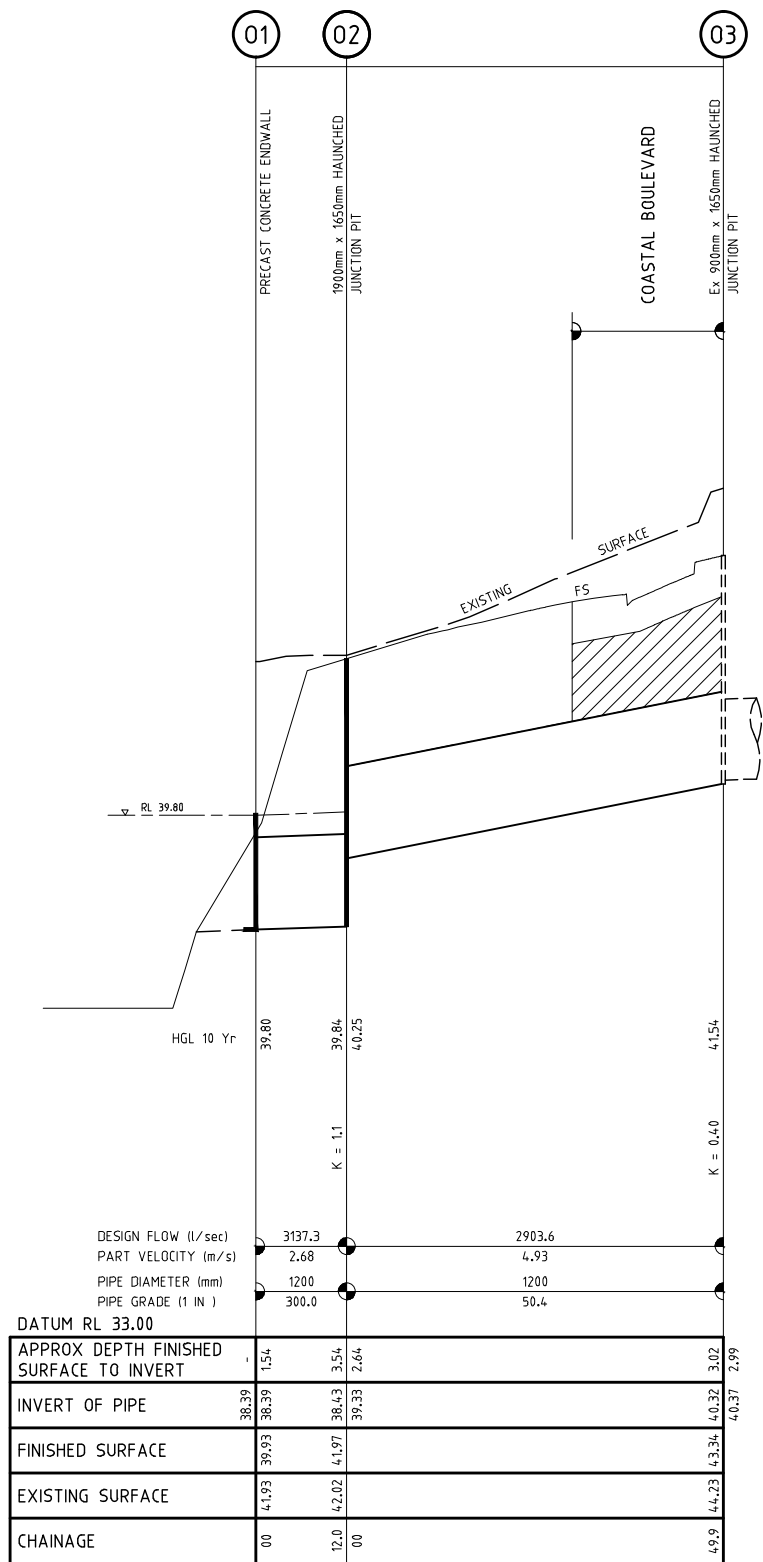
NOTE
ALL SUMPS IN PRECAST PITS ARE TO BE INFILLED
WITH CONCRETE FLUSH TO THE INVERT LEVEL OF
THE OUTLET PIPE.

SCALES - HORIZ. 1 : 500
VERT. 1 : 50

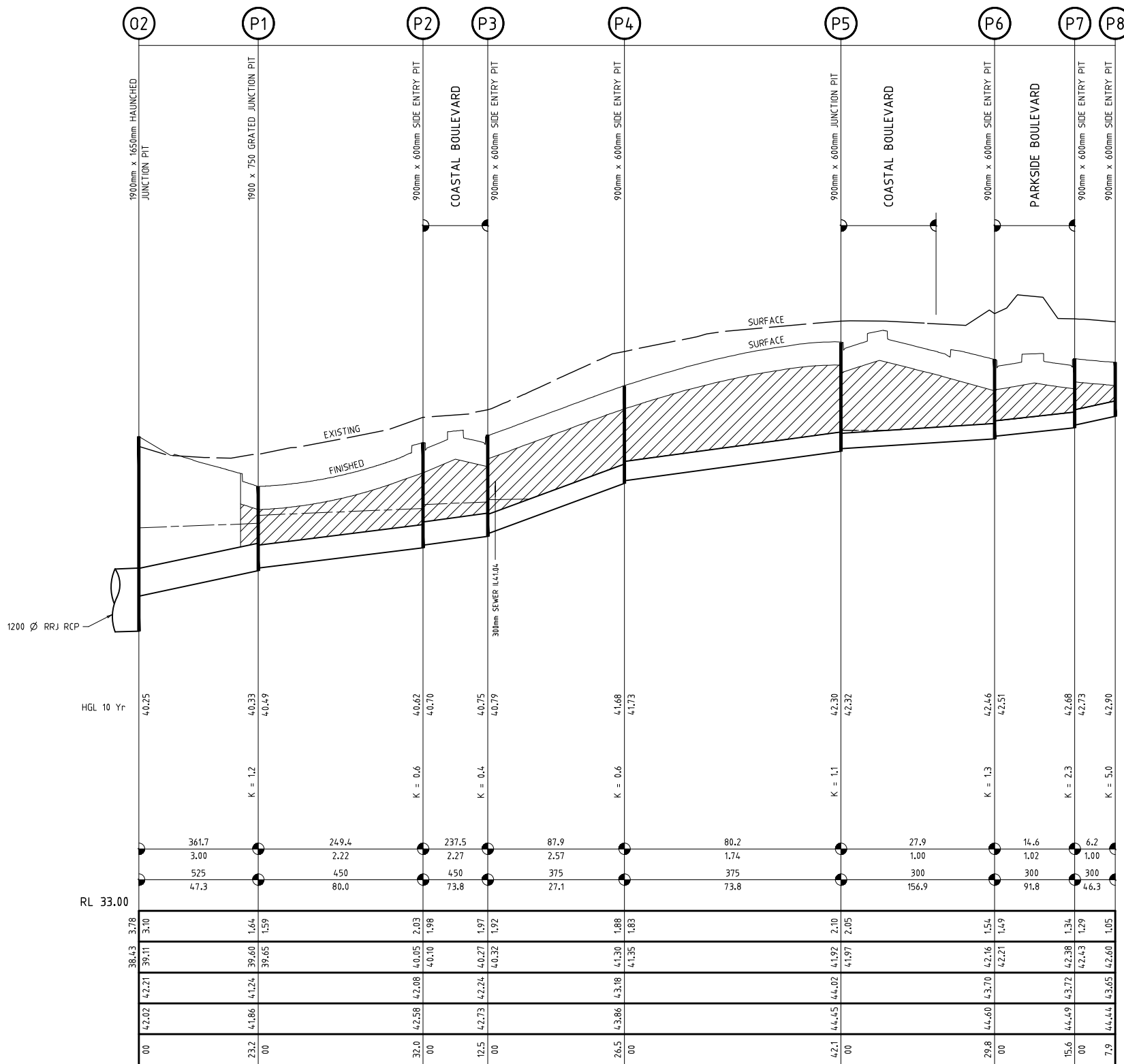
AS CONSTRUCTED PLANS	
CONTRACTOR SIGNATURE:	CONSULTANT SIGNATURE:
DATE: 10/07/17	DATE: 10/07/17



AMENDMENTS			Peter Berry & Associates Pty. Ltd. Civil Engineers	153 Yarra Street Geelong Victoria 3220 Telephone: 5223 2799	
	10.07.17	AS CONSTRUCTED			MELWAY REF.
	22.11.16	VERSION C			SURVEYED
	DATE	DESCRIPTION			DESIGNED P.J.B
A1	1 : 500	10 5 0 10 20 30	DRAWN C.S.	KINGSTON DOWNS ESTATE STAGE 32	MUNICIPALITY GREATER GEELONG
	1 : 50	1 0.5 0 1 2 3	CHECKED		REFERENCE 0211 E/32
SCALE AS SHOWN			DATUM AHD	DATE JUL '16	SHEET 29 OF 32

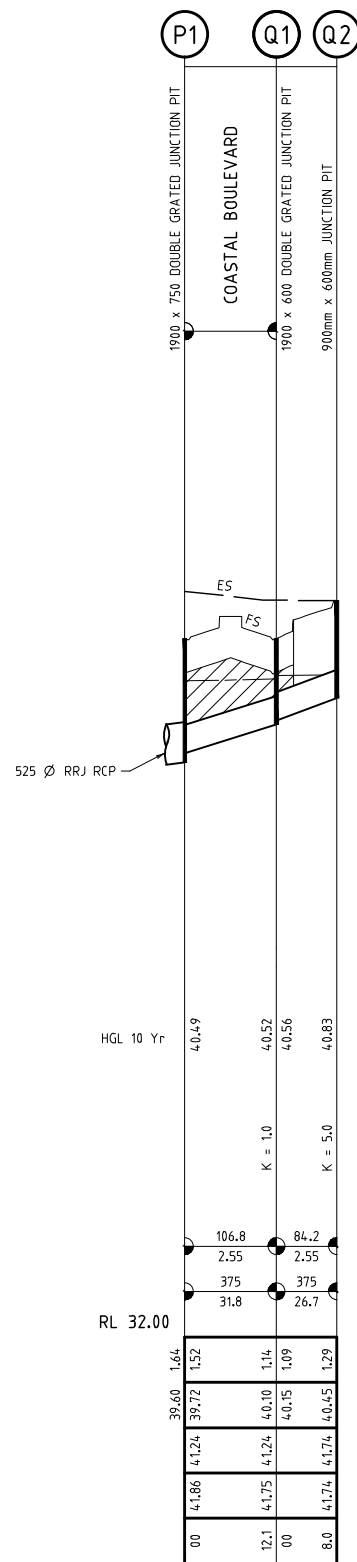


DRAINAGE



LONGITUDINAL

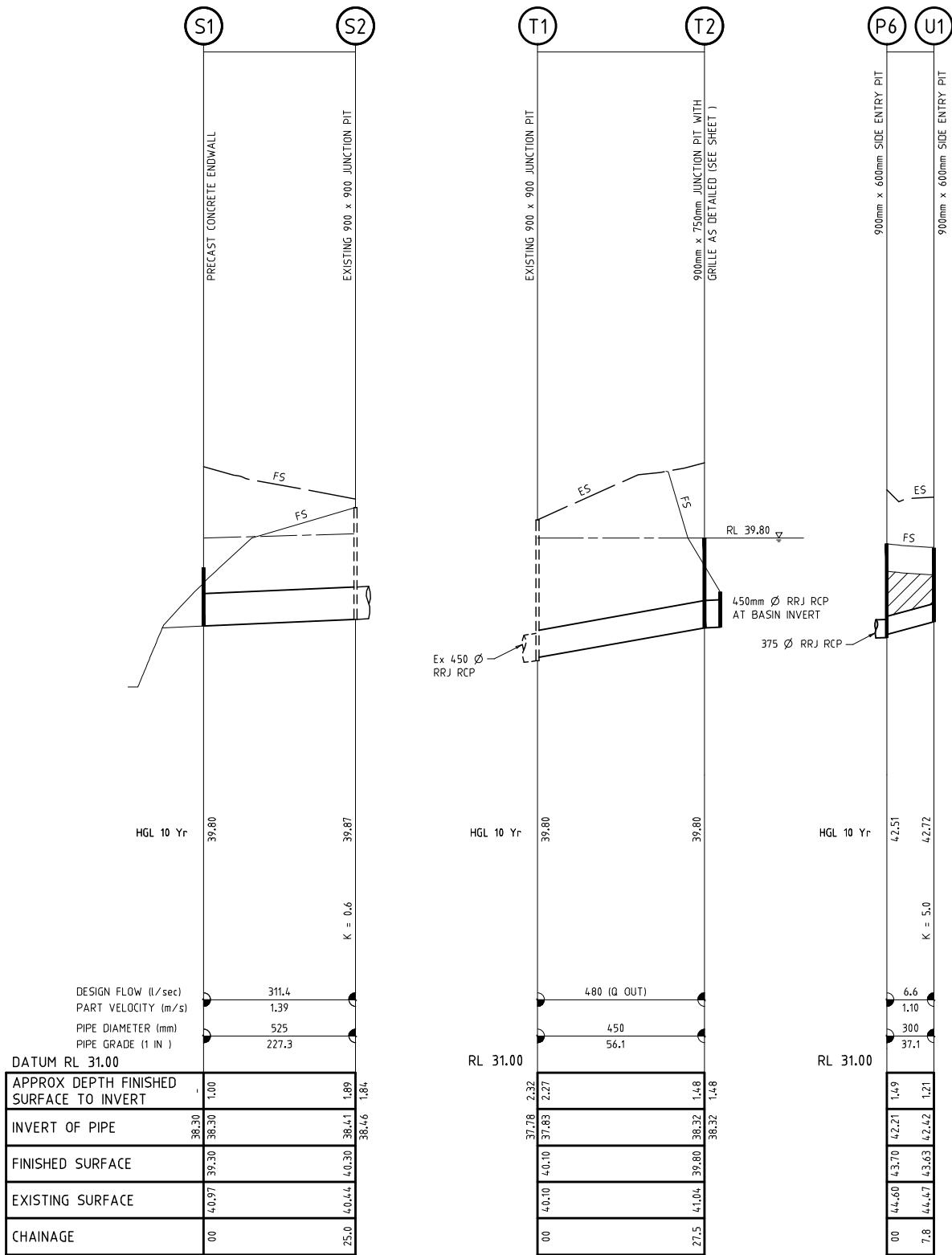
SCALES - HORIZ. 1 : 500
VERT. 1 : 50



SECTIONS

AS CONSTRUCTED PLANS	
CONTRACTOR SIGNATURE:	CONSULTANT SIGNATURE:
DATE: 10/07/17	DATE: 10/07/17

AMENDMENTS	10.07.17	AS CONSTRUCTED	MELWAY REF.	KINGSTON DOWNS ESTATE STAGE 32	MUNICIPALITY GREATER GEELONG				
	22.11.16	VERSION C	SURVEYED						
	DATE	DESCRIPTION	DESIGNED P.J.B.						
	1: 500	1: 50	1: 500			DRAWN C.S.			
A1	1: 500	1: 50	1: 500	CHECKED	SCALE AS SHOWN	DATUM AHD	DATE JUL '16	REFERENCE 0211 E/32	SHEET 30 OF 32



DRAINAGE LONGITUDINAL SECTIONS

SCALES - HORIZ. 1 : 500
VERT. 1 : 50

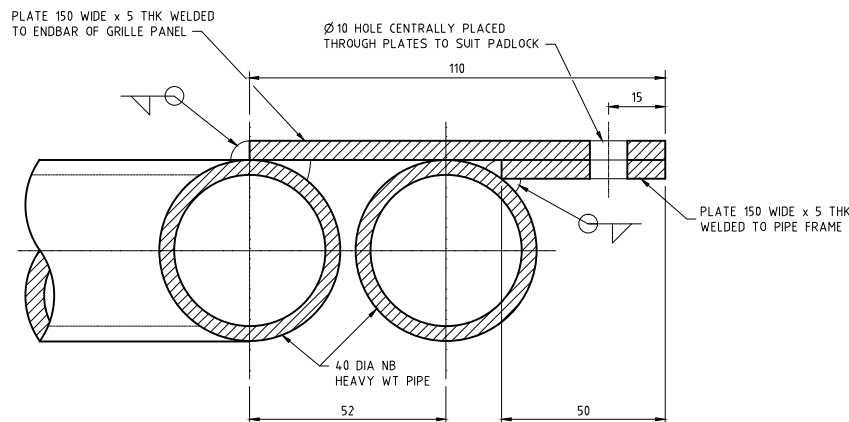
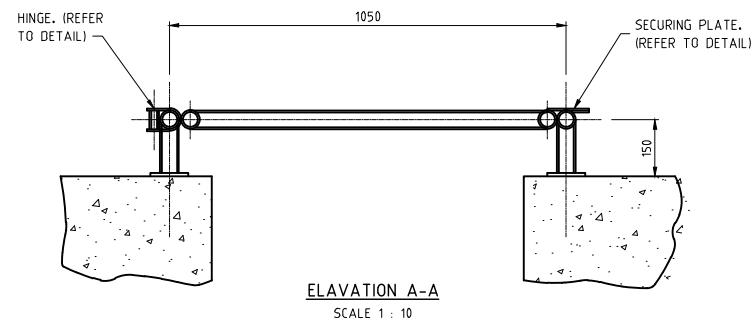
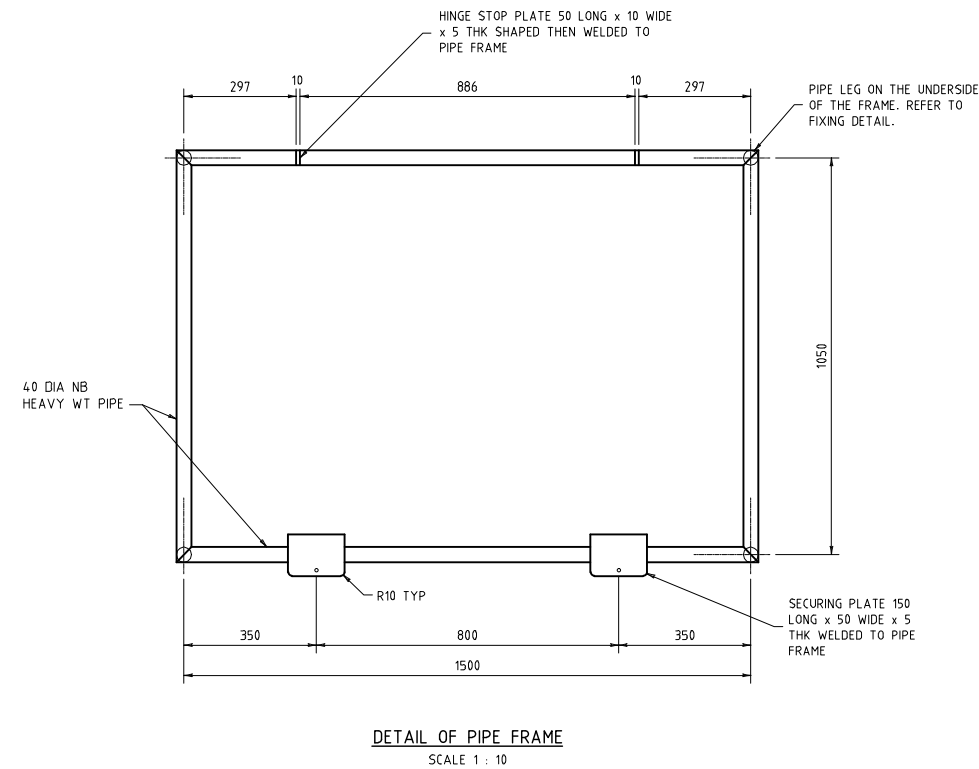
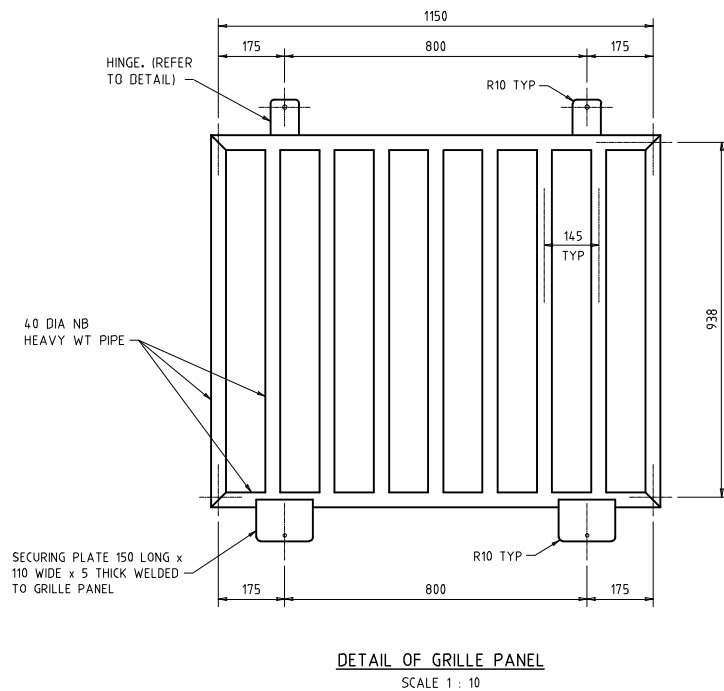
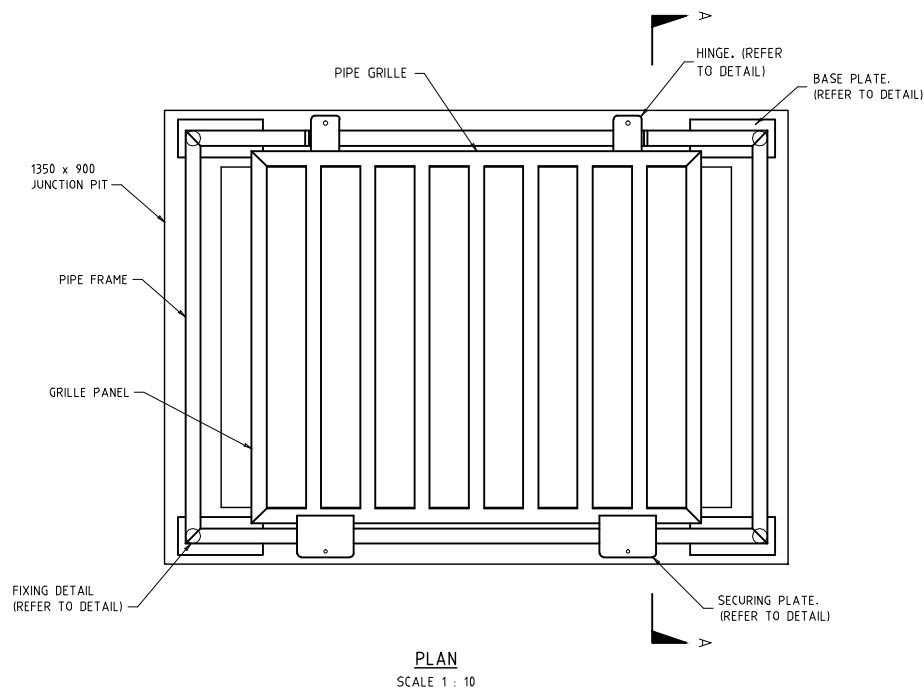
PIT SCHEDULE									
PIT No.	PIT TYPE	LENGTH	WIDTH	INLET	PIPE Ø	OUTLET	PIPE Ø	FINISHED SURFACE R.L.	PIT DEPTH
		mm	mm	I.L.	mm	I.L.	mm	(m)	m
A1	EXISTING JUNCTION PIT	900	600	38.43	450	38.38	450	39.85	1.47
				38.43	300				
A2	JUNCTION PIT	900	600	38.97	450	38.92	450	40.25	1.33
				39.00	300				
A3	SIDE ENTRY PIT	900	600	39.45	450	39.40	450	40.74	1.34
				39.45	300				
A4	SIDE ENTRY PIT	900	600	39.94	450	39.89	450	41.22	1.33
				39.94	300				
A5	JUNCTION PIT	900	600	40.38	450	40.33	450	41.75	1.42
				40.45	225				
A6	GRADED JUNCTION PIT	900	600	40.49	450	40.44	450	42.33	1.89
A7	DOUBLE SIDE ENTRY PIT	1900	600	40.67	450	40.62	450	42.26	1.64
A8	SIDE ENTRY PIT	900	600	40.77	375	40.72	450	42.26	1.54
				40.77	375				
A9	SIDE ENTRY PIT	900	600	40.86	375	40.81	375	42.37	1.56
A10	SIDE ENTRY PIT	900	600	41.23	375	41.18	375	42.76	1.58
A11	SIDE ENTRY PIT	900	600	41.39	300	41.34	375	42.80	1.46
				41.39	375				
A12	SIDE ENTRY PIT	900	600	41.49	375	41.44	375	42.84	1.40
A13	SIDE ENTRY PIT	900	600	41.74	375	41.69	375	43.11	1.42
				41.74	300				
A14	JUNCTION PIT	900	600	42.22	225	42.14	375	43.37	1.23
A15	JUNCTION PIT	900	600	42.47	225	42.42	225	43.93	1.51
A16	JUNCTION PIT	900	600	-	-	43.13	225	44.39	1.26
B1	SIDE ENTRY PIT	900	600	40.90	375	40.85	375	42.40	1.55
B2	SIDE ENTRY PIT	900	600	41.28	225	41.20	375	42.94	1.74
				41.28	225				
B3	JUNCTION PIT	900	600	42.02	225	41.97	225	43.71	1.74
B4	JUNCTION PIT	900	600	42.74	225	42.69	225	44.03	1.34
B5	JUNCTION PIT	900	600	-	-	43.10	225	44.18	1.08
C1	JUNCTION PIT	900	600	39.15	300	39.10	300	40.45	1.35
C2	JUNCTION PIT	900	600	39.68	225	39.60	300	40.88	1.28
C3	JUNCTION PIT	900	600	39.82	225	39.77	225	40.99	1.22
C4	JUNCTION PIT	900	600	-	-	40.10	225	41.28	1.18
EP	BLANKED OFF END OF PIPE	-	-	-	-	39.66	225	41.31	1.65
D2	JUNCTION PIT	900	600	40.17	225	40.12	225	41.63	1.51
D3	JUNCTION PIT	900	600	41.12	225	41.07	225	42.27	1.20
D4	JUNCTION PIT	900	600	-	-	41.85	225	42.88	1.03
E1	EXISTING END OF PIPE	-	-	39.81	375	39.81	375	41.07	1.26
E2	SIDE ENTRY PIT	900	600	39.92	225	39.84	375	41.08	1.24
E3	JUNCTION PIT	900	600	40.85	225	40.80	225	42.01	1.21
E4	JUNCTION PIT	900	600	-	-	41.25	225	42.35	1.10
F1	EXISTING END OF PIPE	-	-	40.15	375	40.15	375	41.33	1.18
F2	SIDE ENTRY PIT	900	600	40.34	375	40.29	375	41.46	1.17
				40.37	300				
F3	SIDE ENTRY PIT	900	600	41.70	300	41.62	375	43.00	1.38
F4	SIDE ENTRY PIT	900	600	-	-	42.27	300	43.32	1.05
G1	SIDE ENTRY PIT	900	600	41.01	300	40.96	300	42.23	1.27
G2	SIDE ENTRY PIT	900	600	41.43	225	41.35	300	42.54	1.19
G3	JUNCTION PIT	900	600	-	-	41.99	225	42.97	0.98
H1	JUNCTION PIT	900	600	-	-	42.10	225	43.23	1.13
I1	JUNCTION PIT	900	600	-	-	42.20	225	43.34	1.14
J1	SIDE ENTRY PIT	900	600	-	-	40.78	300	41.79	1.01
K1	SIDE ENTRY PIT	900	600	-	-	42.25	300	43.20	0.95
L1	SIDE ENTRY PIT	900	600	-	-	41.80	300	42.83	1.03
M1	SIDE ENTRY PIT	900	600	-	-	40.21	300	41.25	1.04
N1	SIDE ENTRY PIT	900	600	-	-	39.70	300	40.75	1.05

PIT SCHEDULE									
PIT No.	PIT TYPE	LENGTH	WIDTH	INLET	PIPE Ø	OUTLET	PIPE Ø	FINISHED SURFACE R.L.	PIT DEPTH
		mm	mm	I.L.	mm	I.L.	mm	(m)	m
O1	PRECAST CONCRETE ENDWALL	-	-	38.39	1200	38.39	-	42.63	4.24
O2	HAUNCHED JUNCTION PIT	1900	1650	39.33	1200	38.43	1200	42.21	3.78
				39.11	525				
				39.11	525				
O3	EXISTING HAUNCHED JUNCTION PIT	900	1650	40.37	1050	40.32	1200	43.34	3.02
P1	GRADED JUNCTION PIT	1900	750	39.65	450	39.60	525	41.24	1.64
				39.72	375				
P2	SIDE ENTRY PIT	900	600	40.10	450	40.05	450	42.08	2.03
P3	SIDE ENTRY PIT	900	600	40.32	375	40.27	450	42.24	1.97
				40.32	375				
P4	SIDE ENTRY PIT	900	600	41.35	375	41.30	375	43.18	1.88
P5	SIDE ENTRY PIT	900	600	41.97	300	41.92	375	44.02	2.10
				41.97	375				
P6	SIDE ENTRY PIT	900	600	42.21	300	42.16	300	43.70	1.54
				42.21	300				
P7	SIDE ENTRY PIT	900	600	42.43	300	42.38	300	43.72	1.34
P8	SIDE ENTRY PIT	900	600	-	-	42.60	300	43.65	1.05
Q1	GRADED JUNCTION PIT	1900	600	40.15	375	40.10	375	41.24	1.14
Q2	JUNCTION PIT	900	600	-	-	40.45	375	41.74	1.29
R1	JUNCTION PIT	900	600	42.35	375	42.30	375	43.89	1.59
				42.35	300				
S1	PRECAST CONCRETE ENDWALL	-	-	38.30	525	38.30	-	39.30	1.00
S2	EXISTING JUNCTION PIT	900	900	38.46	525	38.41	525	40.30	1.89
T1	EXISTING JUNCTION PIT	900	600	37.83	450	37.78	450	40.10	2.32
T2	JUNCTION PIT	900	600	38.32	450	38.32	450	39.80	1.48
U1	SIDE ENTRY PIT	900	600	-	-	42.42	300	43.63	1.21
V1	GRADED JUNCTION PIT	1900	750	39.72	375	39.60	525	41.24	1.64
V2	GRADED JUNCTION PIT	1900	600	-	-	40.10	375	41.24	1.14

NOTE: PIT DENOTED THUS "*" IS TO BE HAUNCHED TO AN OPENING OF 900mm x 600mm (INTERNAL DIMENSIONS) WITH APPROPRIATE COVER.

AS CONSTRUCTED PLANS	
CONTRACTOR SIGNATURE:	CONSULTANT SIGNATURE:
DATE: 10/07/17	DATE: 10/07/17

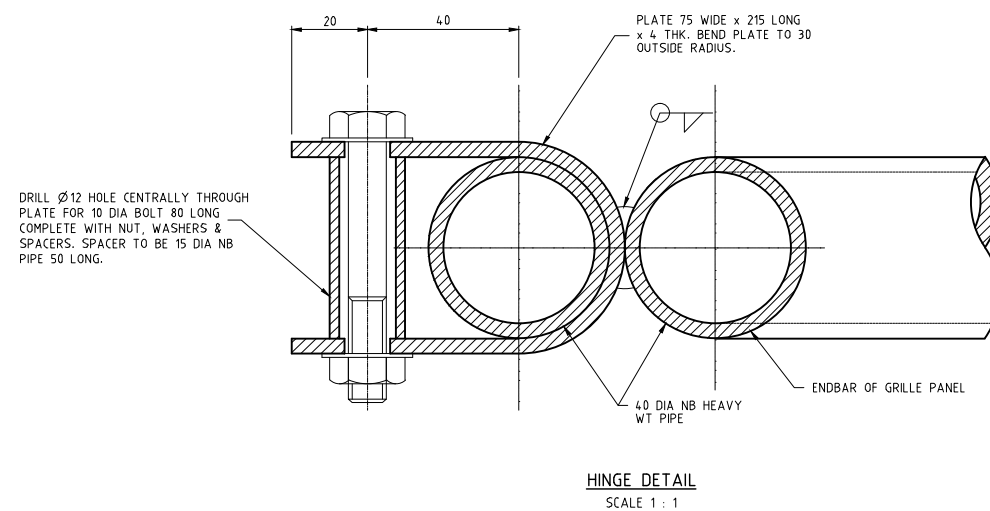
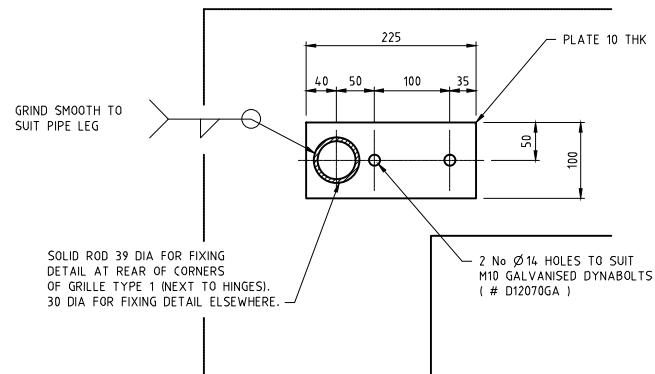
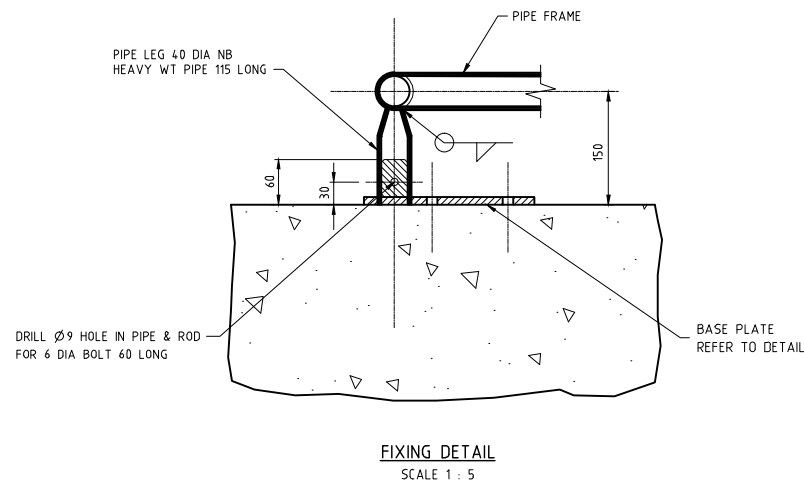
AMENDMENTS			Peter Berry & Associates Pty. Ltd. Civil Engineers 153 Yarra Street Geelong Victoria 3220 Telephone: 5223 2799		KINGSTON DOWNS ESTATE STAGE 32		MUNICIPALITY GREATER GEELONG REFERENCE 0211 E/32 SHEET 31 OF 32		
	10.07.17	AS CONSTRUCTED	MELWAY REF.						
	22.11.16	VERSION C	SURVEYED						
	DATE	DESCRIPTION	DESIGNED P.J.B						
A1	1: 500 1: 50	10 1	5 0.5	0 0	10 1	20 2	30 3	METRES	
			CHECKED	SCALE AS SHOWN		DATUM	AHD	DATE	JUL '16



NOTES

STEELWORK

- S1. ALL MATERIALS SHALL HAVE STRUCTURAL QUALITY IN ACCORDANCE WITH AS 3678 - GRADE 250.
- S2. ALL STEELWORK TO COMPLY WITH AS 1250 - STEEL STRUCTURES CODE.
- S3. REMOVE ALL BURRS AND SHARP EDGES FROM CORNERS.
- S4. ALL WELDS TO BE 6mm CONTINUOUS FILLET WELDS IN ACCORDANCE WITH AS 1554 - PART 1 UNLESS OTHERWISE STATED.
- S5. ALL STEELWORK TO BE HOT DIP GALVANISED AFTER FABRICATION.
- S6. ALL FIXTURES AND FITTINGS TO BE HOT DIP GALVANISED.



AS CONSTRUCTED PLANS

CONTRACTOR SIGNATURE:

CONSULTANT SIGNATURE:

DATE: 10/07/17

DATE: 10/07/17

AMENDMENTS			Peter Berry & Associates Pty. Ltd. Civil Engineers		153 Yarra Street Geelong Victoria 3220 Telephone: 5223 2799
	10.07.17	AS CONSTRUCTED	MELWAY REF.	KINGSTON DOWNS ESTATE STAGE 32	MUNICIPALITY GREATER GEELONG REFERENCE 0211 E/32 SHEET 32 OF 32
	22.11.16	VERSION C	SURVEYED		
A1	DATE	DESCRIPTION	DESIGNED P.J.B.		
	1:10 0.2 0.1 0 0.2 0.4 0.6	1:5 0.1 0.05 0 0.1 0.2 0.3	DRAWN C.S.		
	1:1 0.02 0.01 0 0.02 0.04 0.06	METRES	CHECKED	SCALE AS SHOWN	DATUM AHD
			DATE JUL '16		