

SHOALHAVEN CITY COUNCIL

PREPARED BY TECHNICAL SERVICES



DRAWING No.	DESCRIPTION OF SHEET
01	NOTES, CONSTRUCTION DETAILS & SURVEY CONTROL
02	LAYOUT PLAN & CONSTRUCTION LONGITUDINAL SECTIONS - FP_01 - (1 of 10)
03	LAYOUT PLAN & CONSTRUCTION LONGITUDINAL SECTIONS - FP_01 - (2 of 10)
04	LAYOUT PLAN & CONSTRUCTION LONGITUDINAL SECTIONS - FP_01 - (3 of 10)
05	LAYOUT PLAN & CONSTRUCTION LONGITUDINAL SECTIONS - FP_01 - (4 of 10)
06	LAYOUT PLAN & CONSTRUCTION LONGITUDINAL SECTIONS - FP_01 - (5 of 10)
07	LAYOUT PLAN & CONSTRUCTION LONGITUDINAL SECTIONS - FP_01 - (6 of 10)
08	LAYOUT PLAN & CONSTRUCTION LONGITUDINAL SECTIONS - FP_01 - (7 of 10)
09	LAYOUT PLAN & CONSTRUCTION LONGITUDINAL SECTIONS - FP_01 - (8 of 10)
10	LAYOUT PLAN & CONSTRUCTION LONGITUDINAL SECTIONS - FP_01 - (9 of 10)
11	LAYOUT PLAN & CONSTRUCTION LONGITUDINAL SECTIONS - FP_01 - (10 of 10)
12	CROSS SECTIONS - CL_01 - (1 of 8)
13	CROSS SECTIONS - CL_01 - (2 of 8)
14	CROSS SECTIONS - CL_01 - (3 of 8)
15	CROSS SECTIONS - CL_01 - (4 of 8)
16	CROSS SECTIONS - CL_01 - (5 of 8)
17	CROSS SECTIONS - CL_01 - (6 of 8)
18	CROSS SECTIONS - CL_01 - (7 of 8)
19	CROSS SECTIONS - CL_01 - (8 of 8)
20	CROSS SECTIONS - FP_01 - (1 of 3)
21	CROSS SECTIONS - FP_01 - (2 of 3)
22	CROSS SECTIONS - FP_01 - (3 of 3)

SHARED USER PATH

MURRAMARANG ROAD

BAWLEY POINT TO KIOLOA

	AMENDMENT		DATE	CHECKED BY	CLIENT ACCEPTANCE	APPROVED		PLAN No. 5515	SHEET No.: - No. SHEETS: 22
						SIGNED:			
						MANAGER TECHNICAL SERVICES SECTION TOM DIMEC			
						DATE:			

1. All work is to be carried out in accordance with Council's Development Construction Specification and Supplement to DCP No. 100.
2. All works are to be conducted to the requirements of the superintendent.
3. Surfaces that lie outside the general limits of works, which are disturbed, are to be restored at least to their pre-construction condition by the contractor.
4. Unless otherwise noted, all levels shown are finished surface levels, where applicable the contractor shall allow for the thickness of the varied specified finishes.
5. The contractor shall provide all labour, materials and equipment necessary for the accurate setting out of the entire works and shall ensure that all surfaces are constructed to the correct levels.
6. All setout, to be approved by Council's superintendent prior to construction.
7. The contractor shall not give less notice than that noted in the construction specification when requesting an inspection. The contractor shall arrange for the work to be inspected by the superintendent, or their representatives:
 - * following site establishment – prior to commencement of any works;
 - * after final restoration prior to practical completion.
8. The superintendent will provide approval under Section 138 of the *Roads Act 1993* prior to commencing construction within all road reserves. Traffic control plans are to be submitted to the superintendent prior to construction work commencing.
9. Traffic control measures shall be provided in accordance with AS 1742.3 & SCC requirements.
10. The contractor is responsible for arranging for inspections by Council's authorised representative at the timing and following the procedure outlined in Council's letter of approval.
11. The contractor shall ensure that the residents adjacent to the construction zone are not affected by dust or undue noise during construction and are not deprived of all-weather access nor are subjected to additional stormwater runoff at all times during construction.
12. The contractor shall not disturb any survey control marks. Should any survey control mark be disturbed or obliterated, the contractor shall notify the superintendent immediately. The contractor shall have the marks replaced at their own expense.
13. Refer any design discrepancies to the Design Engineer for clarification.
14. Pedestrians must be protected from hazards at all times. Direct pedestrians & road users away from unsafe construction using approved safety management plan.

1. Not all utility services are shown. Underground utilities have not been physically located & approximate locations only are provided. It is the constructors responsibility to;
 - Identify the location of existing subsurface infrastructure by contacting asset owners including using DIAL BEFORE YOU DIG.
 - Physically locate all subsurface utility services that are likely to conflict with the proposed works.
 - Ensure all utility services are protected from damage during the construction period.
 - Obtain & comply with all utility service authorities requirements, particularly in regards to working near their assets.
 - Adjust service locations as required. Repair any damage to services or Council infrastructure.

1. Erosion & sediment control measures shall comply with the 4th edition of *Managing Urban Stormwater: Soils and Construction* (Landcom, March 2004).
2. All trees must be protected from damage unless shown to be removed.
3. Topsoil must be stripped and stockpiled in nominated locations for reuse in accordance with (SD 4-1). Sediment fences must be installed on the downstream side of material stockpiles.
4. Topsoil shall generally be stockpiled on the high sides of works for reuse to re-spread on after formation. All stockpiles are to be protected from erosion.
5. All disturbed areas shall be revegetated immediately using kikuyu turf following formation.
6. For the duration of the construction period all sediment devices shall be maintained and retained in a fully functional condition.
7. Any disturbed bare areas where final stabilisation will not commence immediately shall be temporarily stabilised or grass seeded within 15 days.
8. Install sediment fences (SD 6-8) downstream of disturbed areas and stockpiles.
9. Install mesh and gravel inlet filter (SD 6-11) at kerb inlet pits.
10. Install geotextile inlet filter (SD 6-12) at stormwater inlet pits.
11. Construct energy dissipater (SD 5-8) at all stormwater outlets / in locations shown on drawings.
12. All bare areas to be turfed or seeded immediately after finish surface levels have been obtained.
13. Refer to Project Plan for standard erosion & sediment control drawings applicable to this project.

1. Boundaries and improvements have been located with approximate accuracy for the purpose of this survey.
2. Relationships of improvements to boundaries for financial or any other purposes should be confirmed by further survey by a registered surveyor.
3. The location of underground services between locating marks shown on this plan is indicative only.
4. It is your responsibility to locate underground services by careful hand pot-holing prior to any excavation and exercise due care during that excavation.

1. **MATERIALS**
Construction materials and workmanship for concrete works shall be in accordance with the specification and AS 3600 – *Concrete structures*.
2. **CONCRETE PROPERTIES**
For concrete properties refer to specification.
3. **JOINTING IN CONCRETE STRUCTURES**
location of all expansion and contraction joints shall be as shown on the drawings.
location of such joints shall not be changed without approval of the principal. If adequate construction joints are not shown in the drawings the contractor shall submit proposed locations of required construction joints for approval before construction.
4. **CHAMFERS**
Except as otherwise required, exposed concrete corners and edges shall have 20mm chamfers.
5. **FINISH**
All concrete surfaces shall have a heavy broom finish transversely applied to the roadway, ensuring there is sufficient skid resistance in both wet and dry conditions.

1. All reinforcement shall be in accordance with AS/NZS 4671 - *Steel reinforcing materials*.
2. All reinforcement shall be firmly supported on mild steel plastic tipped, plastic or concrete bar chairs at not greater than 1000mm centres.
3. Plastic tipped bar chairs shall not be used on exposed faces in exposed classification B1 & B2 of AS 3600.
4. Bars shall be tied at alternate intersections.
5. Splices in reinforcement shall be made only in the positions shown. Where lap is not shown the builder shall confirm the lap length with the Design Engineer.
6. All reinforcement shall be inspected by the Design Engineer prior to placement of concrete.

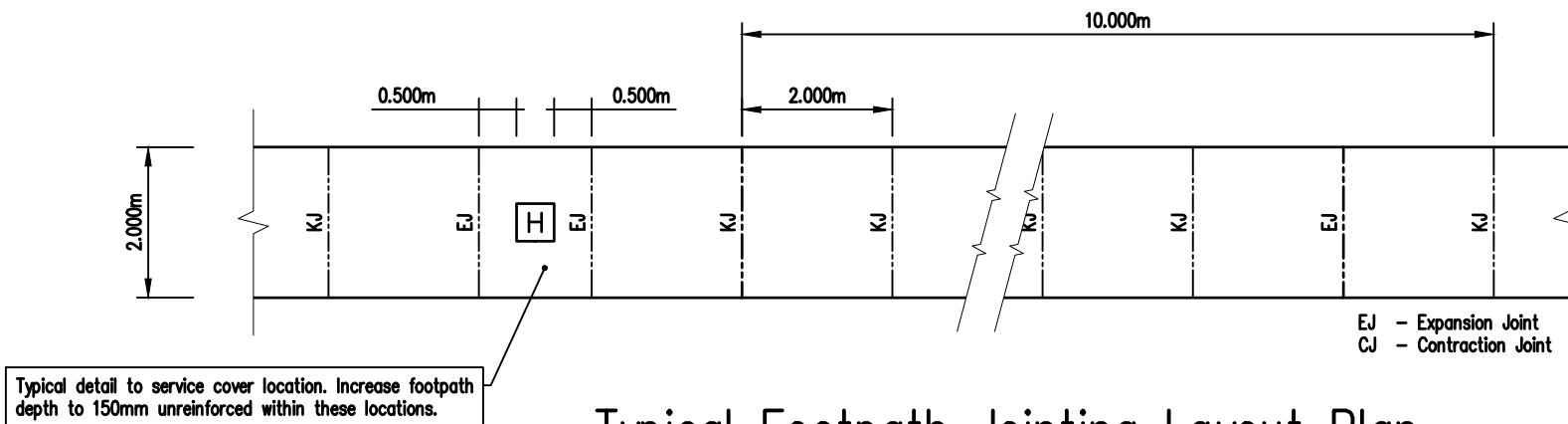
1. Footpaths to be 100mm thick unreinforced N20 concrete, unless stated otherwise.
2. Footpaths shall drain towards the kerb & gutter where possible, crossfall shall not be less than 2.5% and no greater than 5.0%.
3. All concrete surfaces not coloured and stamped shall be broom finished.
4. Expansion joints to be located where possible at tangent points of curves and elsewhere at a maximum of 12.0m centres. Expansion joints also to be located at both sides of any driveway.
5. Articulated joints, 'tripstop' or approved equivalent, to be placed at centres to match the width of the path (i.e. 1.200m centres for a 1.200m wide path). Joints to extend one full panel past the drip-line of any mature tree, or a minimum of five (5) joints to be installed, whichever is greater.
6. Refer to www.tripstop.net for suppliers and installation requirements.

1. ALL driveways and vehicular crossings shall be linked to the roadway, only after consultation with the property owner. These connections shall match the roadway in their construction for colour, strength, thickness and reinforcement.
2. Stenciled / coloured concrete to be matched for pattern and/or oxide colour. Coloured oxide to be fully incorporated in the concrete mix prior to pouring.

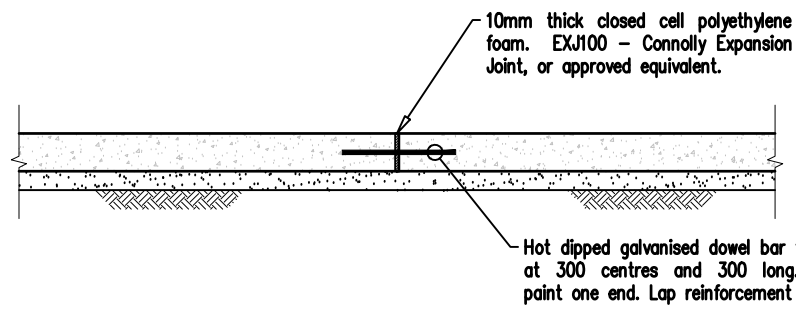
1. Stormwater drainage shall be in accordance with Council specifications and relevant Australian standards.
2. All stormwater pipes within road reserves shall be minimum 375 dia. steel reinforced concrete pipe (SRCP), rubber ring jointed (RRJ), class 3, laid at 1% min. grade U.N.O.
3. Pipes of 225mm diameter and under shall be uPVC class SN6 laid at 0.5% min. grade U.N.O.
4. Minimum cover to pipes 300mm dia. and greater shall be 600mm under car parks and roads U.N.O.
5. Pipes laid at grades over 16% shall have concrete bulkheads at all joints.
6. Hand excavate stormwater pits in the vicinity of tree roots.
7. Compaction testing shall be carried out by a NATA certified laboratory for all drainage lines laid wholly or in part under the kerb and gutter or pavement.
8. A minimum 150mm clearance shall be provided between the outside of the pipe and the trench wall.

For HS2 support in accordance with AS/NZS 3725 – Design for installation of buried concrete pipes.

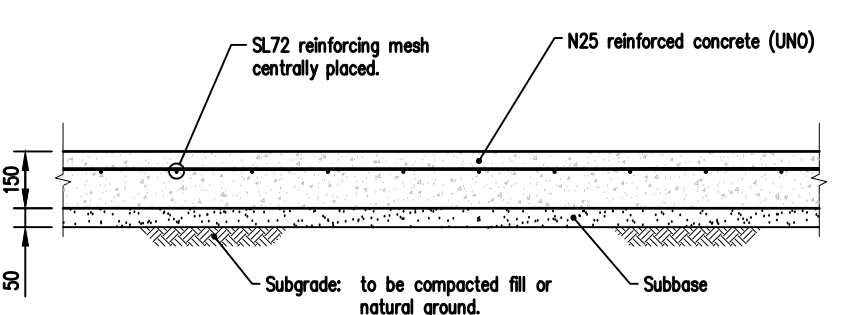
- Prior to completion of excavation, the soil type in which the trench is excavated shall be assessed for density and stiffness, to the satisfaction and approval of the Superintendent.
- If it is established that the natural ground will provide effective side support, the trench width for both trench condition and embankment condition shall be as shown on the drawings.
2. Excavation shall be to line and level shown on the drawings, to provide for a pipe bed zone, for the trench width and thickness:
- of 100mm for pipe nominal diameter ≤ 1500 mm.
or 150mm for pipe nominal diameter > 1500 mm.
- Should the excavation to the required foundation at the bottom of the bed level reveal material, which in the opinion of the Superintendent is unsuitable, the trench shall be over-excavated to a depth required to remove the unsuitable material and refilled with compacted material conforming to the requirements for the Bed Zone.
3. Bed zone material shall consist of sand and/or gravel complying with the following grading:
- | Sieve Size (mm) | 19.0 | 2.36 | 0.60 | 0.30 | 0.15 | 0.075 |
|-----------------|------|--------|-------|-------|------|-------|
| % Mass Passing | 100 | 100–50 | 90–20 | 60–10 | 25–0 | 10–0 |
- and with the material passing the 0.075mm sieve having low plasticity as described in Appendix D of AS 1726.
4. Alternatively, select fill as defined in AS 3725 which does not conform with the above grading limits may be used provided that it is stabilised. Details of the proposed stabilised material shall be approved by the Superintendent prior to installation.
5. The Bed Zone shall be placed to the final required thickness of 100mm for pipe nominal diameter less than or equal to 1500mm or 150mm for pipe nominal diameter greater than 1500mm. The bed material shall extend over the full width of the trench and shall be compacted by tamping, rolling and/or vibration to a minimum Density Index (DI) of 60.
- Compaction achieved shall be monitored by field testing as directed by the Superintendent.
6. The bed level shall be graded to provide a uniform fall to the discharging end of the pipeline, with line and level as shown on the drawings.
7. For pipes with sockets protruding beyond the barrel outside surface, chases shall be dug into the bed and foundation if necessary, in the appropriate positions, so that each pipe is supported along the full length of the barrel and the socket is not subjected to point loading.
8. The refilling shall be carried out in three stages and these are to be identified as Haunch Zone, Overlay Zone, and Backfill or Embankment fill.
9. The Haunch Zone shall extend from the top of the Bed Zone up to 0.3 times pipe outside diameter and shall be fill material complying with the requirements shown above for the Bed Zone.
10. The material shall be placed over the full width of the trench either in layers not exceeding 150mm compacted thickness and compacted by conventional methods or compacted in one operation by saturation and vibration to achieve a minimum density index (DI) of 60.
- Compaction achieved shall be monitored by field testing as directed by the Superintendent.
11. The Side Zone shall extend from the top of the Haunch Zone up to 0.7 times the pipe outside diameter and shall consist of fill material complying with the following grading:
- | Sieve Size (mm) | 75 | 9.5 | 2.36 | 0.60 | 0.075 |
|-----------------|-----|--------|--------|-------|-------|
| % Mass Passing | 100 | 100–50 | 100–30 | 50–15 | 25–0 |
12. The material shall be placed over the full width of the trench either in layers not exceeding 150mm compacted thickness and compacted by tamping rolling or vibration to a minimum Relative Density (RD) of 90% or minimum Density Index (DI) of 60.
- Compaction achieved shall be monitored by field testing as directed by the Superintendent.
13. The Overlay Zone shall extend from the top of the Side Zone up to 300mm above the top of the pipe and around the pipe measured radially from any point and shall be fill material consisting of material from the excavation or elsewhere. It shall not contain any stones larger than 150mm, nor more than 20% with a size between 75mm and 150mm.
14. The material is to be compacted as necessary to prevent excessive settlement in the ground surface level over the installed pipeline.
15. Backfill or Embankment fill is to be the remainder of the refilling and shall consist of any available material up to finished levels as shown on the drawings.



Typical Footpath Jointing Layout Plan



Expansion Joint
(EJ)



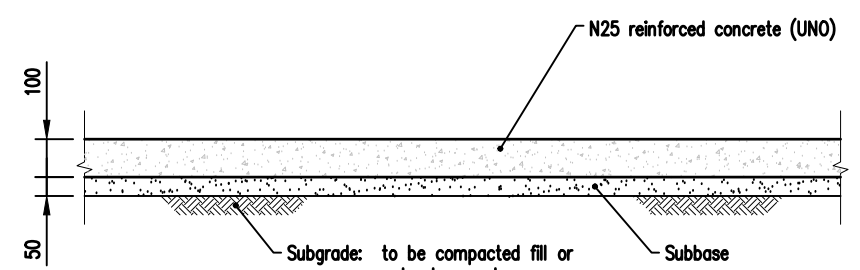
Key Joint
(KJ)

Point	Easting	Northing	Height	Description
2	262635.673	6063272.315	2.623	NAIL
10	263608.070	6065606.390	14.893	STM 20938
11	263596.283	6065325.715	5.825	STN
12	263596.282	6065325.634	5.818	DPY
283	263597.895	6065093.425	12.025	STN
391	263604.755	6065275.764	5.787	STN
473	263576.689	6064953.355	12.414	STN
622	263561.756	6064864.007	10.413	STN
705	263492.031	6064796.683	7.374	STN
727	263406.059	6064748.355	5.654	STN
802	263283.960	6064717.944	5.237	STN
854	263188.382	6064632.336	6.094	STN
890	263239.168	6064690.287	5.257	STN
954	263140.454	6064541.591	6.572	STN
1027	263050.153	6064332.113	8.055	STN
1141	262970.236	6064028.901	5.983	STN
1142	263045.408	6064324.255	7.915	PM 56447
1337	262934.956	6063762.521	5.809	STN
1338	262941.585	6063831.102	5.844	STN
1663	262911.244	6063579.289	4.767	STN
1665	262880.254	6063475.363	5.107	STN
1750	262795.889	6063410.632	4.173	STN
1786	262633.358	6063309.545	4.596	STN
1894	262554.162	6063118.145	3.006	STN
2028	262506.920	6062955.339	3.876	STN
2149	262492.198	6062753.907	3.281	STN
2158	262520.938	6062959.603	2.936	PM 56449
2321	262411.149	6062599.252	5.880	STN
2416	262395.358	6062485.778	6.927	STN
2509	262374.641	6062309.797	6.132	STN
2510	262414.012	6062493.171	6.316	PM 40368
2591	262363.395	6062129.189	5.779	STN
2772	262364.061	6062131.555	5.769	STM 40431
6182	262893.080	6063457.936	4.390	PM 56448
6183	262395.363	6062485.836	6.925	STN
6327	262810.358	6063388.219	4.347	NAIL
6471	262767.089	6063373.943	3.200	NAIL
6493	262734.405	6063348.809	2.879	NAIL
6503	262718.773	6063332.882	2.543	NAIL
6550	262697.940	6063335.210	2.789	NAIL
6570	262660.783	6063306.111	3.629	NAIL
6580	262635.673	6063272.315	2.623	NAIL
6601	262424.928	6062540.918	5.742	NAIL
6651	262485.571	6062584.534	4.622	NAIL
6705	262511.953	6062619.347	4.252	STN
6727	262523.127	6062636.311	3.946	NAIL
6729	262498.912	6062674.649	4.341	NAIL
6766	262475.128	6062669.219	4.334	NAIL

+EP	ELECTRICITY – POWER POLE
+ELP	ELECTRICITY – LIGHT POLE
+TOP	TELSTRA – CONNECTION PIT
+JPT	TELSTRA – JUNCTION / INSPECTION PIT
+EJ	TELSTRA – ELEVATED JUNCTION
+PL	TELSTRA – PILLAR
+	TREE
□	DRAINAGE – PIT
-	SIGN POST

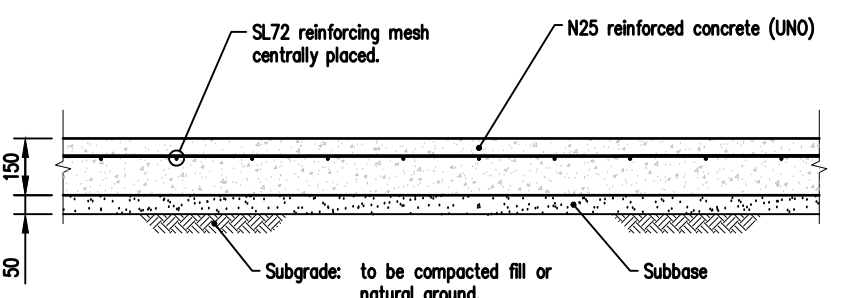
	Proposed concrete path and/or kerb ramp constructed to Council's standards.
	Proposed reinforced concrete path and/or kerb ramp constructed to Council's standards.
	Proposed Concrete Headwall.
	Proposed Concrete Pipes.

	EXISTING FENCE
	EXISTING STORMWATER
	EXISTING ELECTRICITY [OVERHEAD]
	EXISTING ELECTRICITY [UNDERGROUND]
	EXISTING TELSTRA CABLES [UNDERGROUND]



Concrete Path

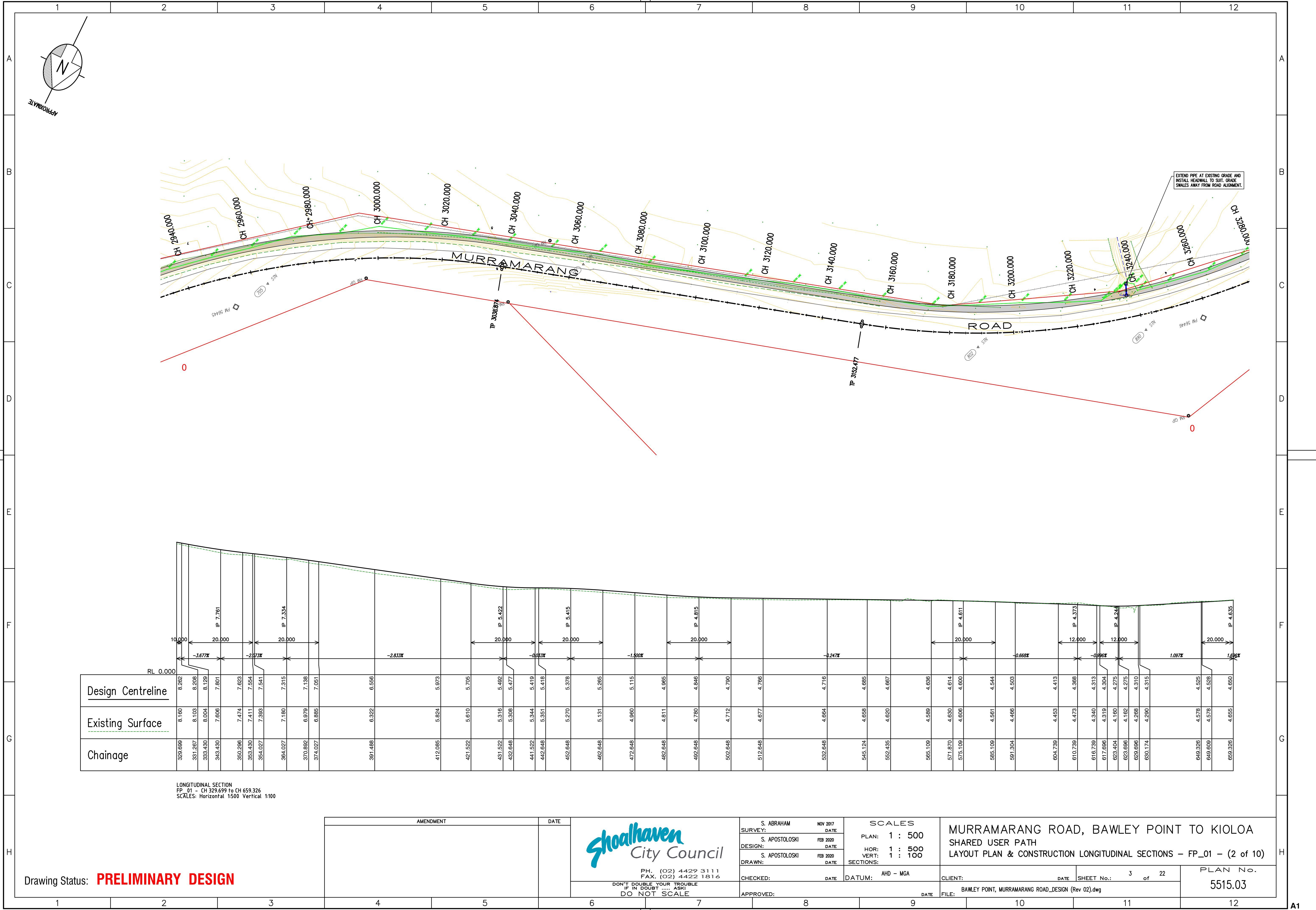
Scale 1:20

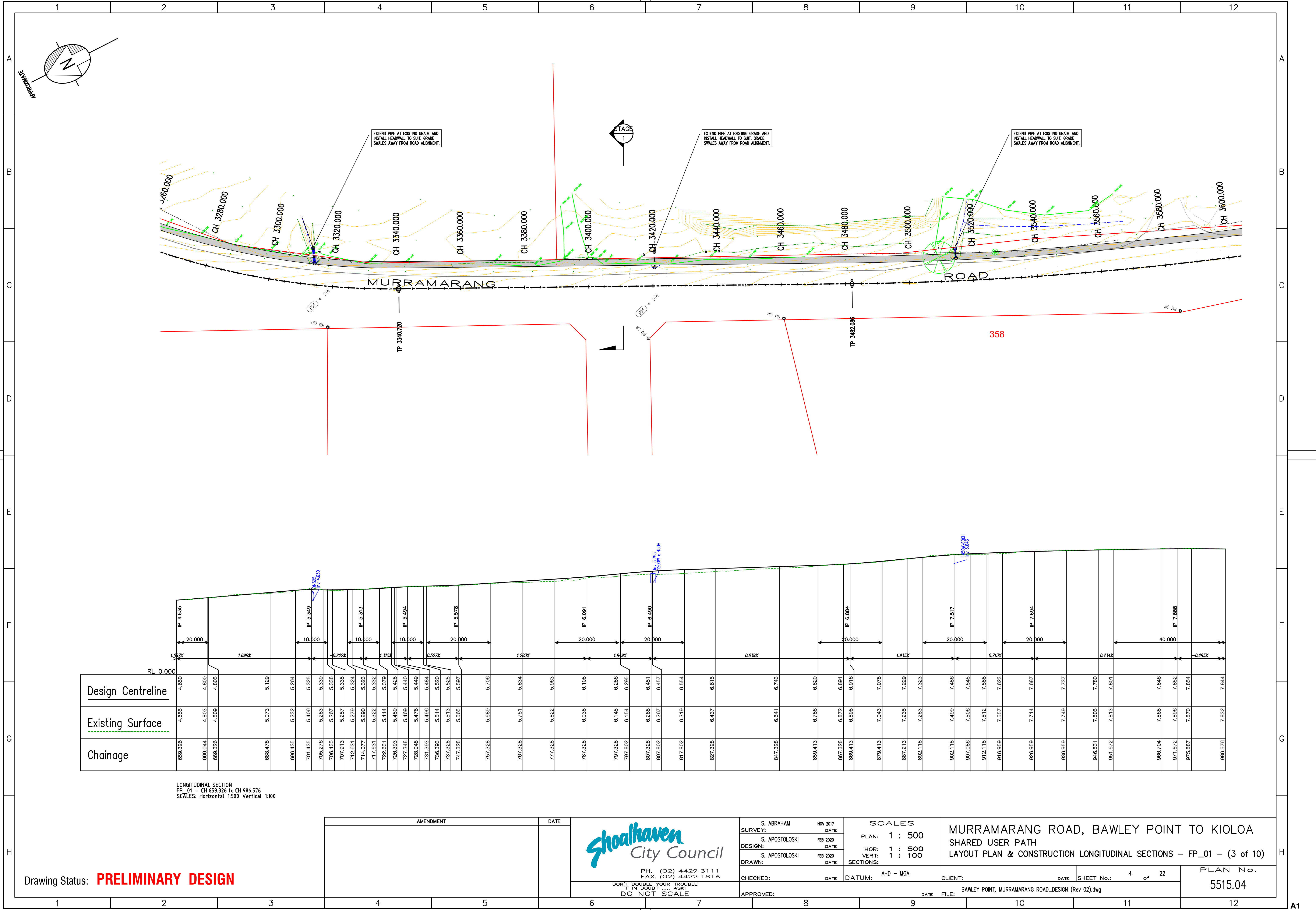


Driveway Crossing

Scale 1:20

Drawing Status: PRELIMINARY DESIGN	AMENDMENT	DATE	 PH. (02) 4429 3111 FAX. (02) 4422 1816 DON'T DOUBLE YOUR TROUBLE IF IN DOUBT, ASK! DO NOT SCALE	S. ABRAHAM NOV 2017 SURVEY: DATE S. APOSTOLOSKI FEB 2020 DESIGN: DATE S. APOSTOLOSKI FEB 2020 DRAWN: DATE	SCALES PLAN: HOR: VERT: SECTIONS:	MURRAMARANG ROAD, BAWLEY POINT TO KIOLOA SHARED USER PATH NOTES, CONSTRUCTION DETAILS & SURVEY CONTROL		
				CHECKED: DATE	DATUM: AHD - MGA	CLIENT: DATE	SHEET No.: 1 of 22	PLAN No. 5515.01
				APPROVED: DATE		FILE: BAWLEY POINT, MURRAMARANG ROAD DESIGN (Rev 02).dwg		





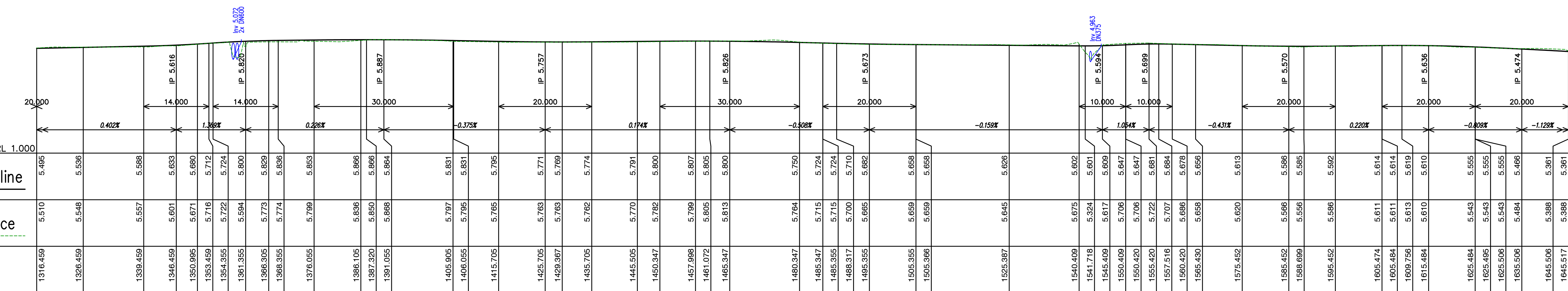
Drawing Status: **PRELIMINARY DESIGN**

AMENDMENT		DATE

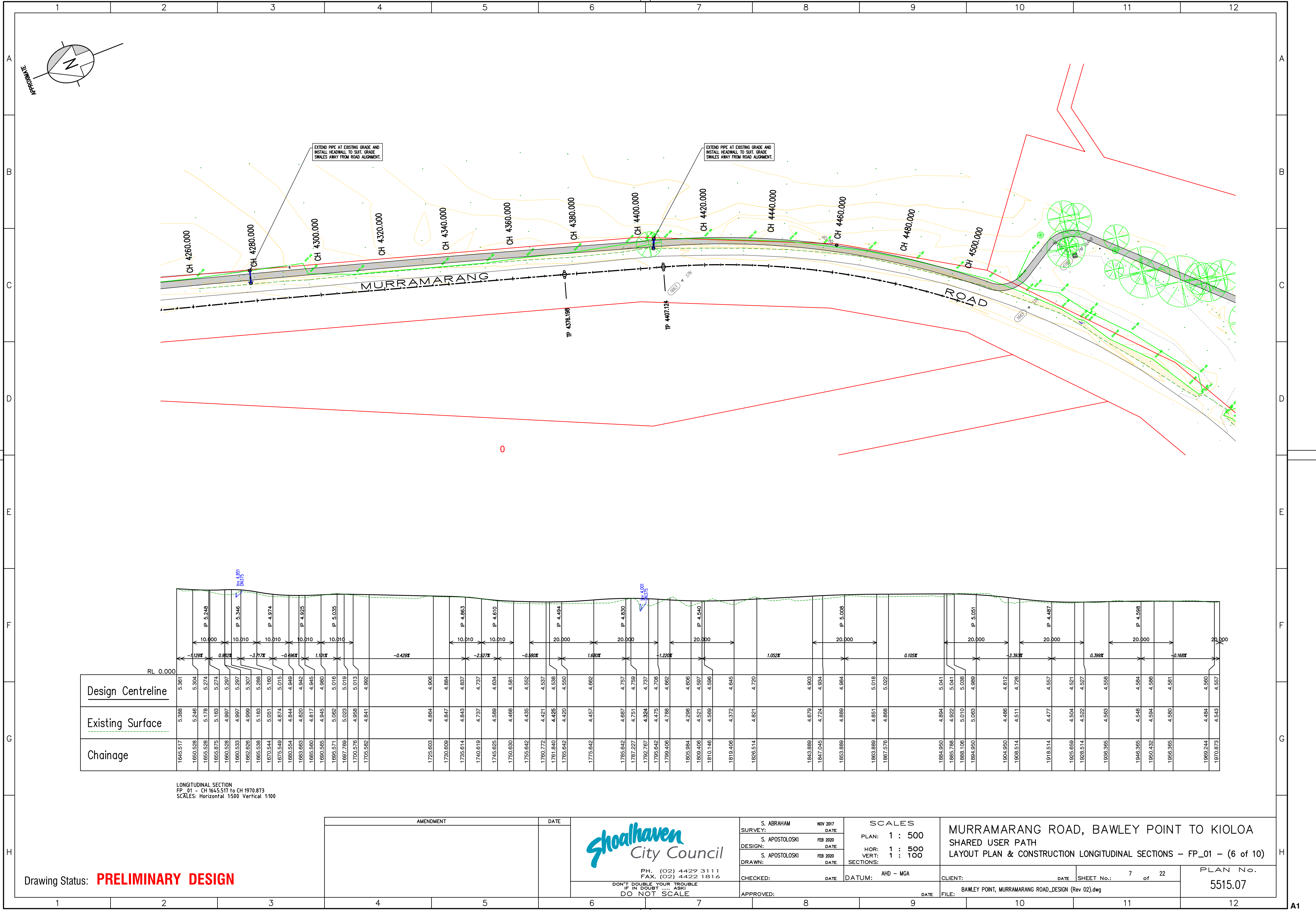
 PH. (02) 4429 3111 FAX. (02) 4422 1816 DON'T DOUBLE YOUR TROUBLE IF IN DOUBT ASK DO NOT SCALE	S. ABRAHAM SURVEY: NOV 2017 DATE
	S. APOSTOLOSKI DESIGN: FEB 2020 DATE
	S. APOSTOLOSKI DRAWN: FEB 2020 DATE
	CHECKED: DATE
APPROVED: DATE	

SCALES	
PLAN:	1 : 500
HOR:	1 : 500
VERT:	1 : 100
SECTIONS:	
DATUM: AHD - MGA	

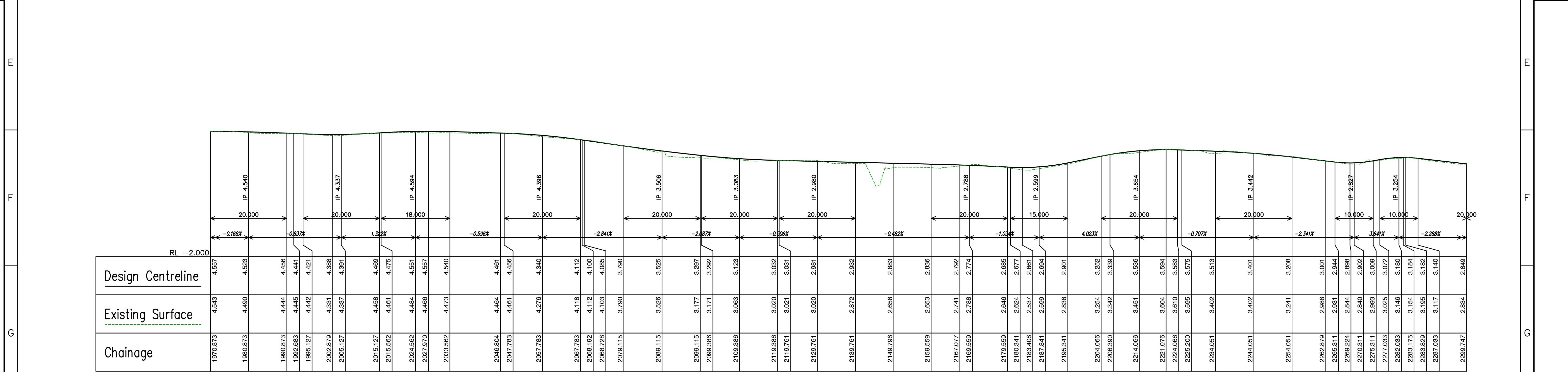
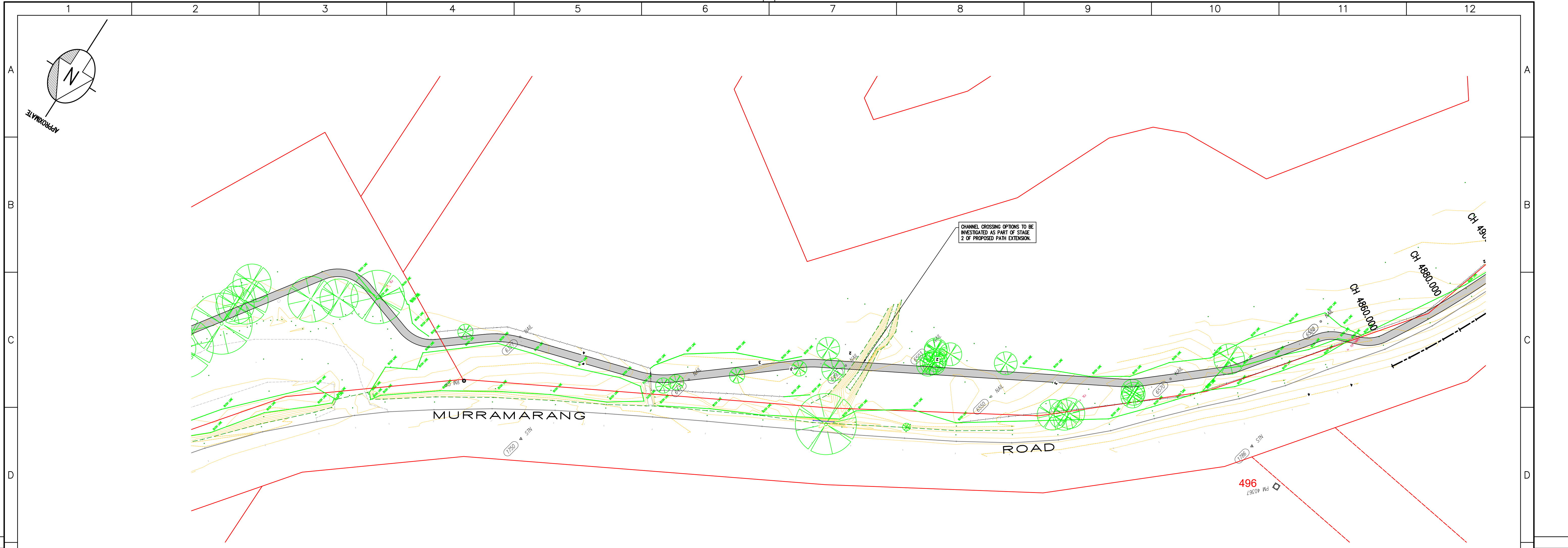
MURRAMARANG ROAD, BAWLEY POINT TO KIOLOA SHARED USER PATH LAYOUT PLAN & CONSTRUCTION LONGITUDINAL SECTIONS - FP_01 - (3 of 10)			
CLIENT:	DATE	SHEET No.:	4 of 22
FILE: BAWLEY POINT, MURRAMARANG ROAD_DESIGN (Rev 02).dwg		PLAN No. 5515.04	



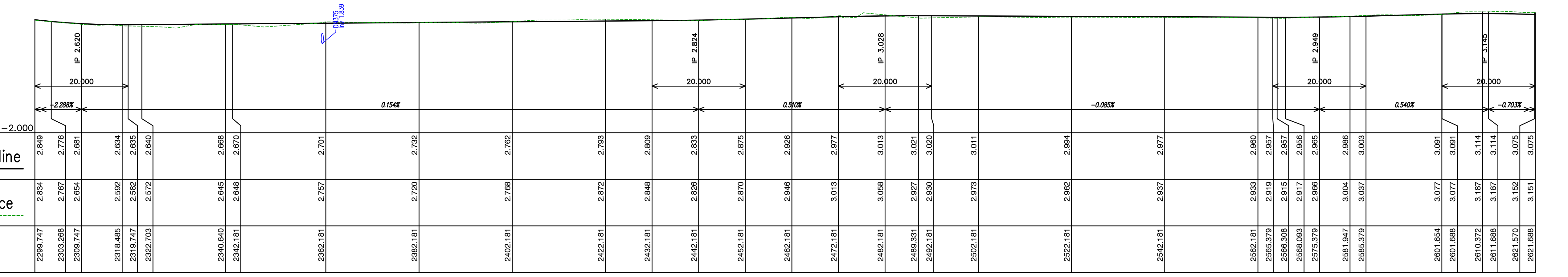
AMENDMENT	DATE	 PH. (02) 4429 3111 FAX. (02) 4422 1816	S. ABRAHAM SURVEY: NOV 2017 DATE S. APOSTOLOSKI DESIGN: FEB 2020 DATE S. APOSTOLOSKI DRAWN: FEB 2020 DATE	SCALES PLAN: 1 : 500 HOR: 1 : 500 VERT: 1 : 100 SECTIONS:	MURRAMARANG ROAD, BAWLEY POINT TO KIOLOA SHARED USER PATH LAYOUT PLAN & CONSTRUCTION LONGITUDINAL SECTIONS – FP_01 – (5 of 10)			
			PH. (02) 4429 3111 FAX. (02) 4422 1816	CHECKED: DATE	DATUM: AHD – MGA	CLIENT: DATE	SHEET No.: 6 of 22	PLAN No.
			DON'T DOUBLE YOUR TROUBLE IF IN DOUBT ... ASK! DO NOT SCALE	APPROVED: DATE	FILE: BAWLEY POINT, MURRAMARANG ROAD DESIGN (Rev 02).dwg	5515.06		



Drawing Status: **PRELIMINARY DESIGN**



LONGITUDINAL SECTION FP_01 - CH 1970.873 to CH 2299.747 SCALES: Horizontal 1:500 Vertical 1:100											
AMENDMENT				DATE				S. ABRAHAM SURVEY: NOV 2017 DATE			
								S. APOSTOLOSKI DESIGN: FEB 2020 DATE			
								S. APOSTOLOSKI DRAWN: FEB 2020 DATE			
								CHECKED: DATE			
								APPROVED: DATE			
								SCALES PLAN: 1 : 500 HOR: 1 : 500 VERT: 1 : 100 SECTIONS:			
								MURRAMARANG ROAD, BAWLEY POINT TO KIOLOA SHARED USER PATH LAYOUT PLAN & CONSTRUCTION LONGITUDINAL SECTIONS - FP_01 - (7 of 10)			
								CLIENT: DATE			
								SHEET No.: 8 of 22			
								FILE: BAWLEY POINT, MURRAMARANG ROAD_DESIGN (Rev 02).dwg			
								PLAN No. 5515.08			



AMENDMENT		DATE	 PH. (02) 4429 3111 FAX. (02) 4422 1316 DON'T DOUBLE YOUR TROUBLE IF IN DOUBT ASK DO NOT SCALE	S. ABRAHAM NOV 2017 SURVEY: DATE		SCALES		MURRAMARANG ROAD, BAWLEY POINT TO KIOLOA SHARED USER PATH LAYOUT PLAN & CONSTRUCTION LONGITUDINAL SECTIONS – FP_01 – (8 of 10)				
				S. APOSTOLOSKI FEB 2020 DESIGN: DATE		PLAN: 1 : 500						
				S. APOSTOLOSKI FEB 2020 DRAWN: DATE		HOR: 1 : 500 VERT: 1 : 100						
						SECTIONS:						
				CHECKED: DATE		DATUM: AHD – MGA		CLIENT: DATE		SHEET No.: 9 of 22		PLAN No.
			APPROVED: DATE		FILE: BAWLEY POINT, MURRAMARANG ROAD DESIGN (Rev 02).dwg						5515.09	

Shoalhaven
City Council

PH. (02) 4429 3111
FAX. (02) 4422 1816

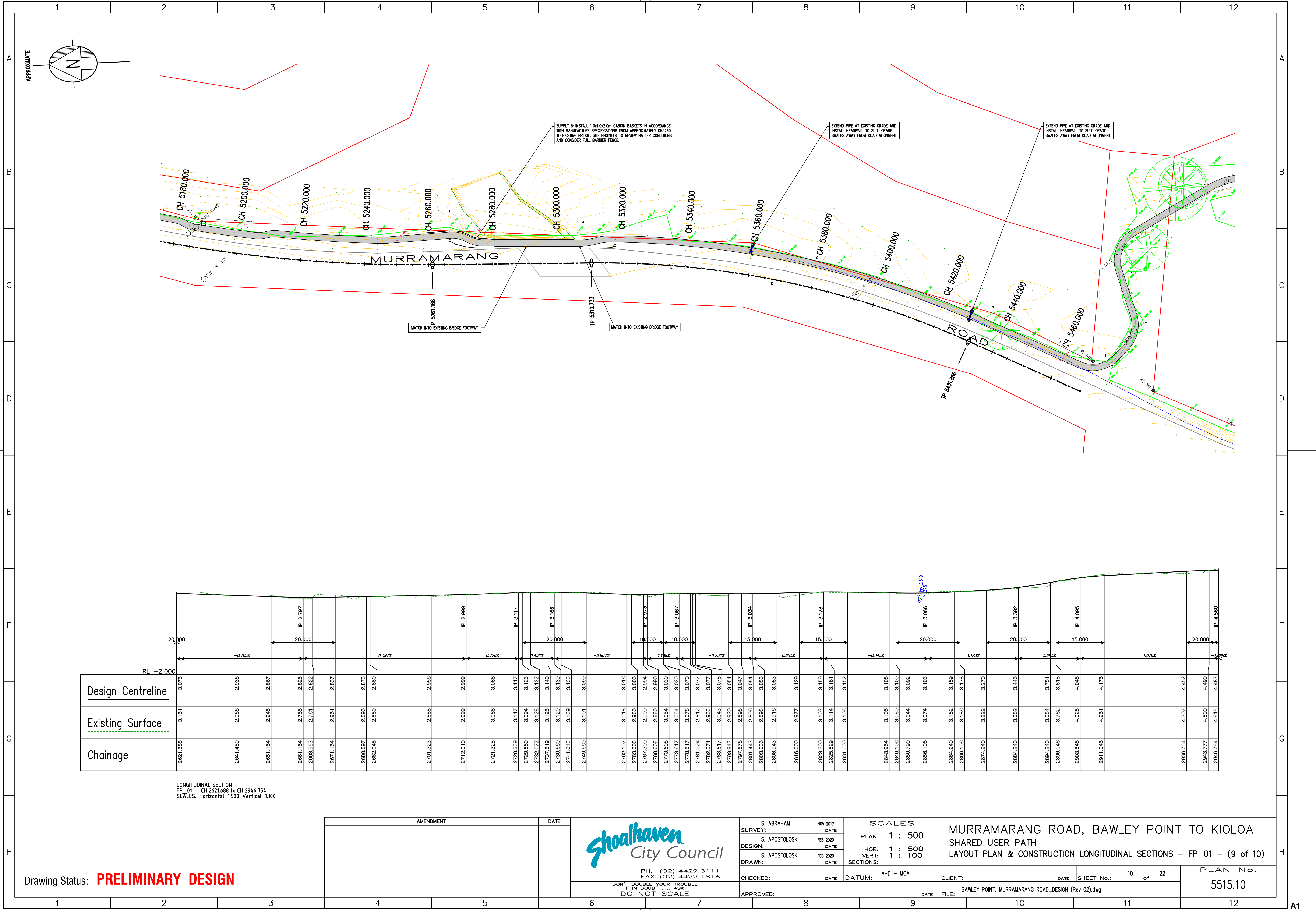
DON'T DOUBLE YOUR TROUBLE
IF IN DOUBT ASK!
DO NOT SCALE

SURVEY:	S. ABRAHAM	NOV 2017 DATE	SCALES	
DESIGN:	S. APOSTOLOSKI	FEB 2020 DATE	PLAN:	1 : 500
DRAWN:	S. APOSTOLOSKI	FEB 2020 DATE	HOR:	1 : 500
			VERT:	1 : 100
			SECTIONS:	
CHECKED:		DATE	DATUM: AHD - MGA	
APPROVED:			DATE	

MURRAMARANG ROAD, BAWLEY POINT TO KIOLOA
SHARED USER PATH
LAYOUT PLAN & CONSTRUCTION LONGITUDINAL SECTIONS – FP_01 – (8 of 10)

CLIENT:	DATE	SHEET No.:	9	of	22
FILE: BAWLEY POINT, MURRAMARANG ROAD_DESIGN (Rev 02).dwg					

PLAN No.
5515.09



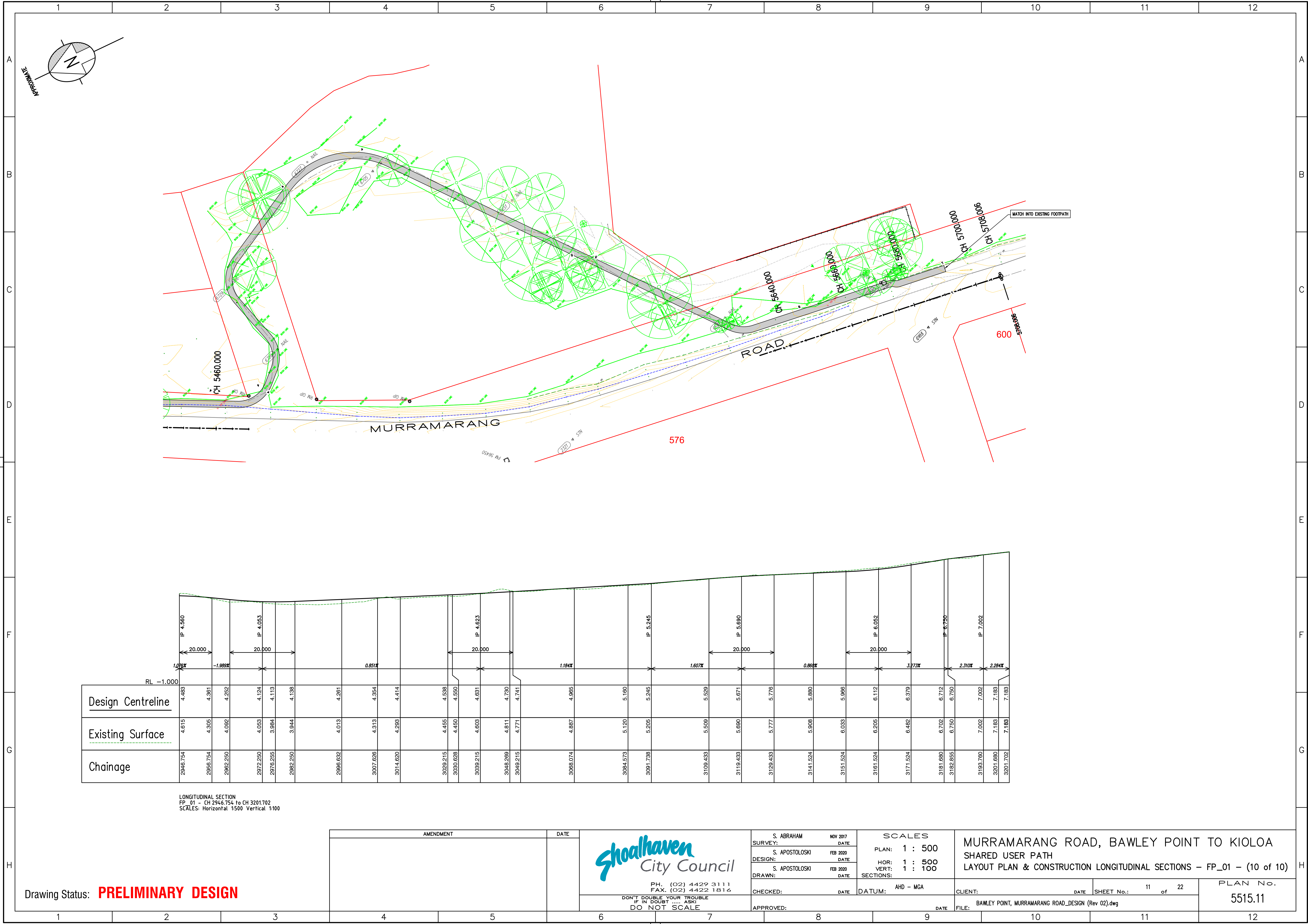
Drawing Status: **PRELIMINARY DESIGN**

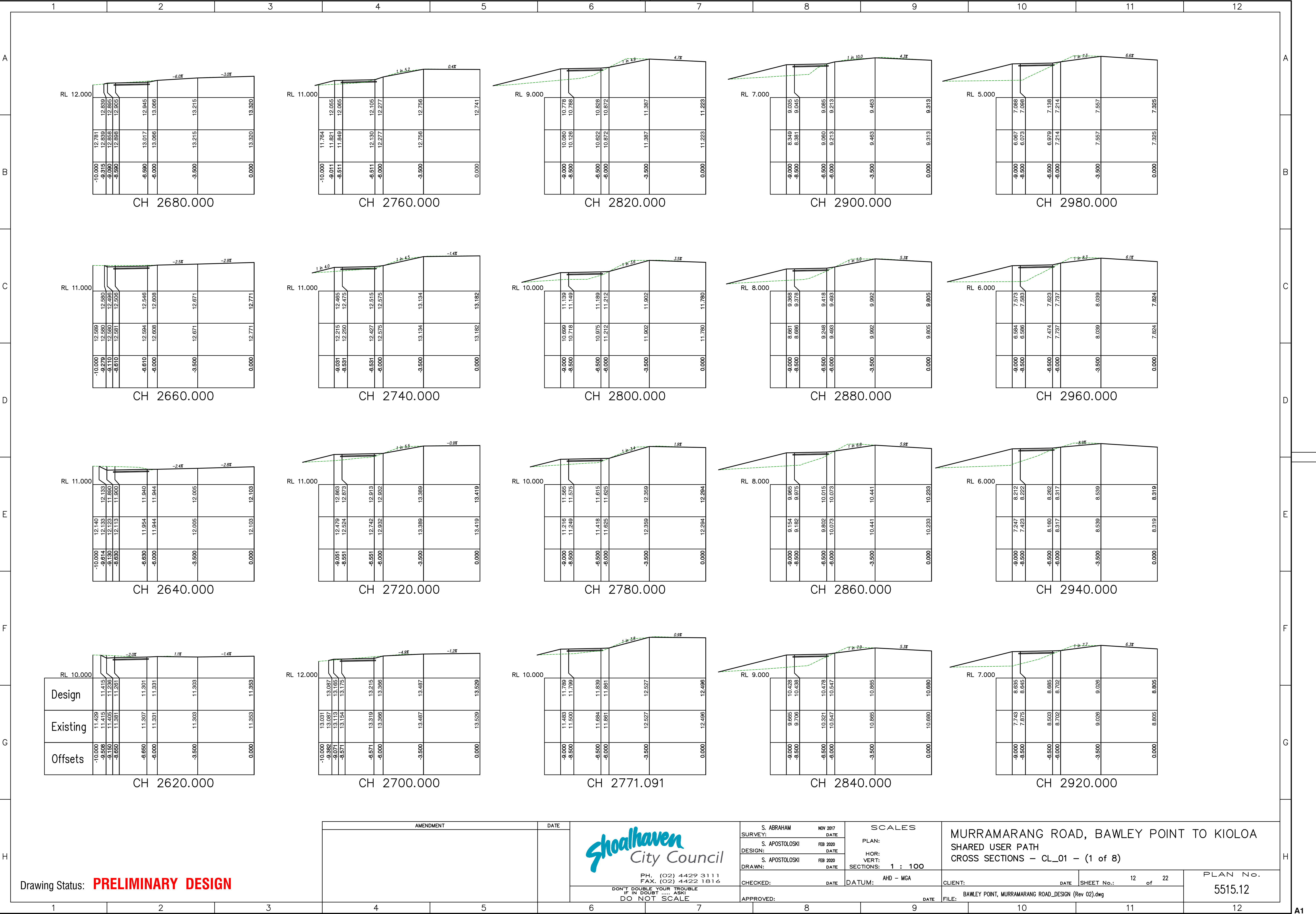
AMENDMENT		DATE

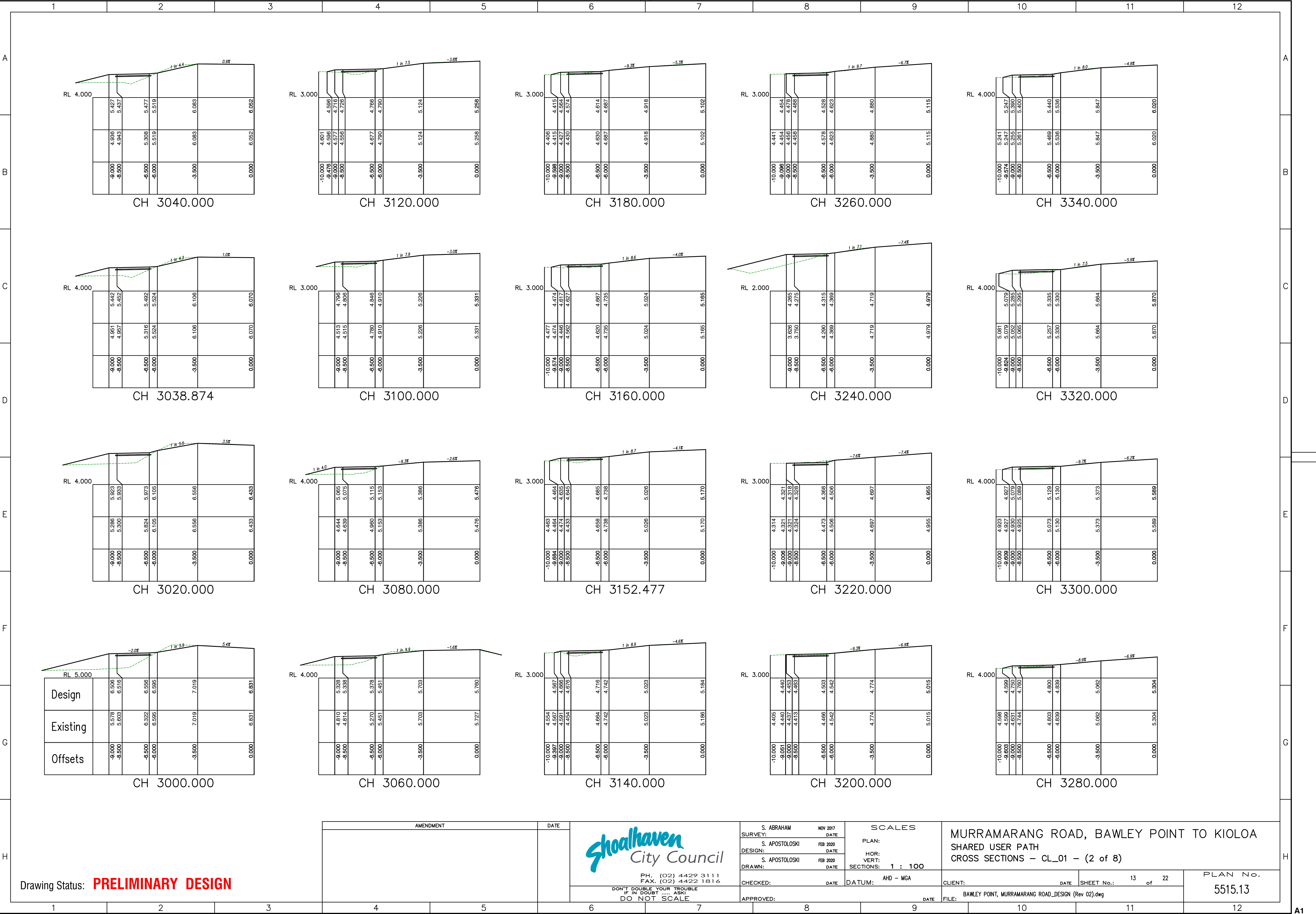
 PH. (02) 4429 3111 FAX. (02) 4422 1816 DON'T DOUBLE YOUR TROUBLE IF IN DOUBT ASK DO NOT SCALE	SURVEY: S. ABRAHAM DESIGN: S. APOSTOLOSKI DRAWN: S. APOSTOLOSKI	NOV 2017 FEB 2020 FEB 2020
	CHECKED:	DATE
	APPROVED:	DATE

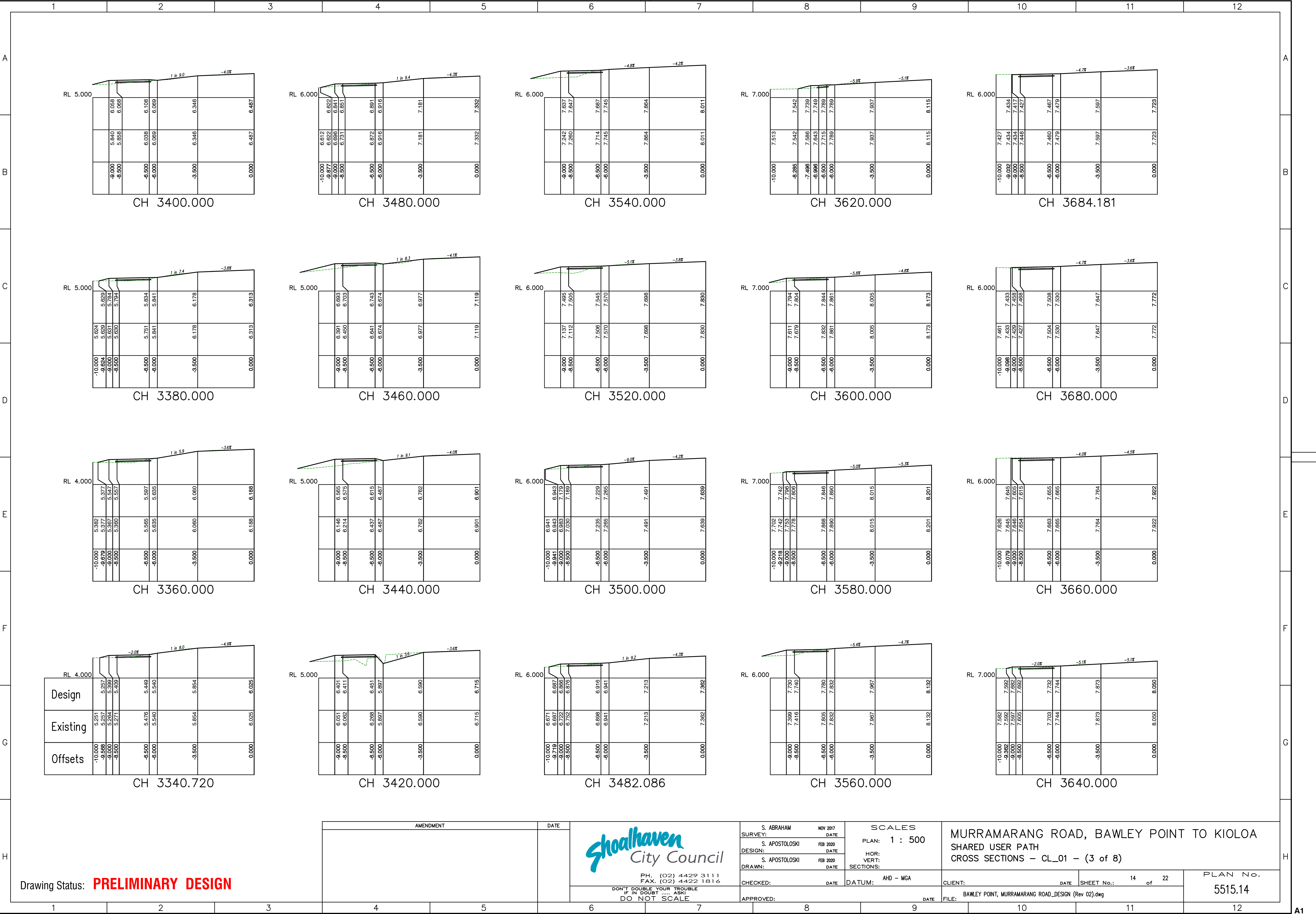
SCALES	
PLAN:	1 : 500
HOR:	1 : 500
VERT:	1 : 100
SECTIONS:	
DATUM: AHD - MGA	

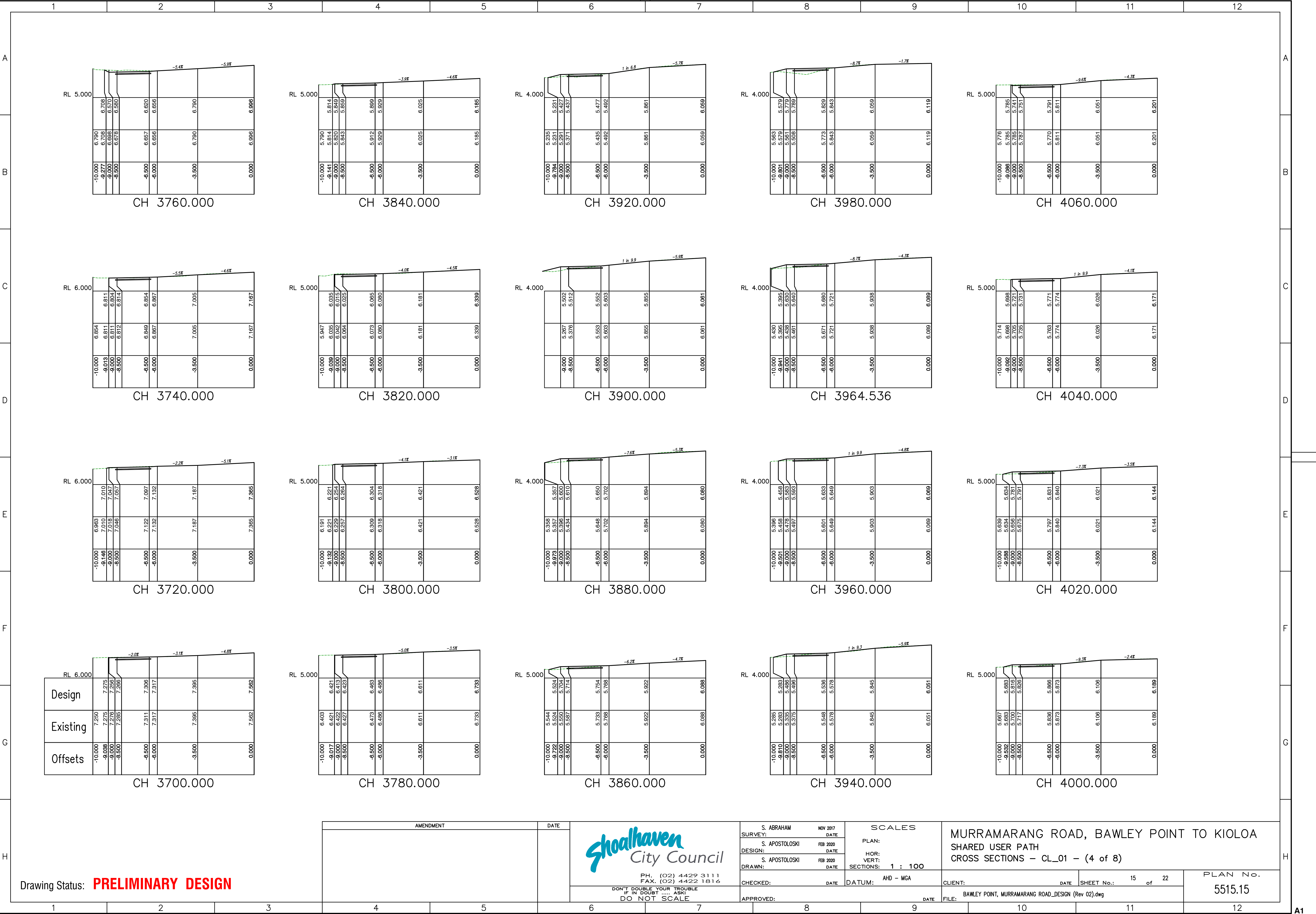
MURRAMARANG ROAD, BAWLEY POINT TO KIOLOA SHARED USER PATH LAYOUT PLAN & CONSTRUCTION LONGITUDINAL SECTIONS - FP_01 - (9 of 10)	
CLIENT:	DATE
FILE: BAWLEY POINT, MURRAMARANG ROAD_DESIGN (Rev 02).dwg	SHEET No.: 10 of 22
PLAN No. 5515.10	

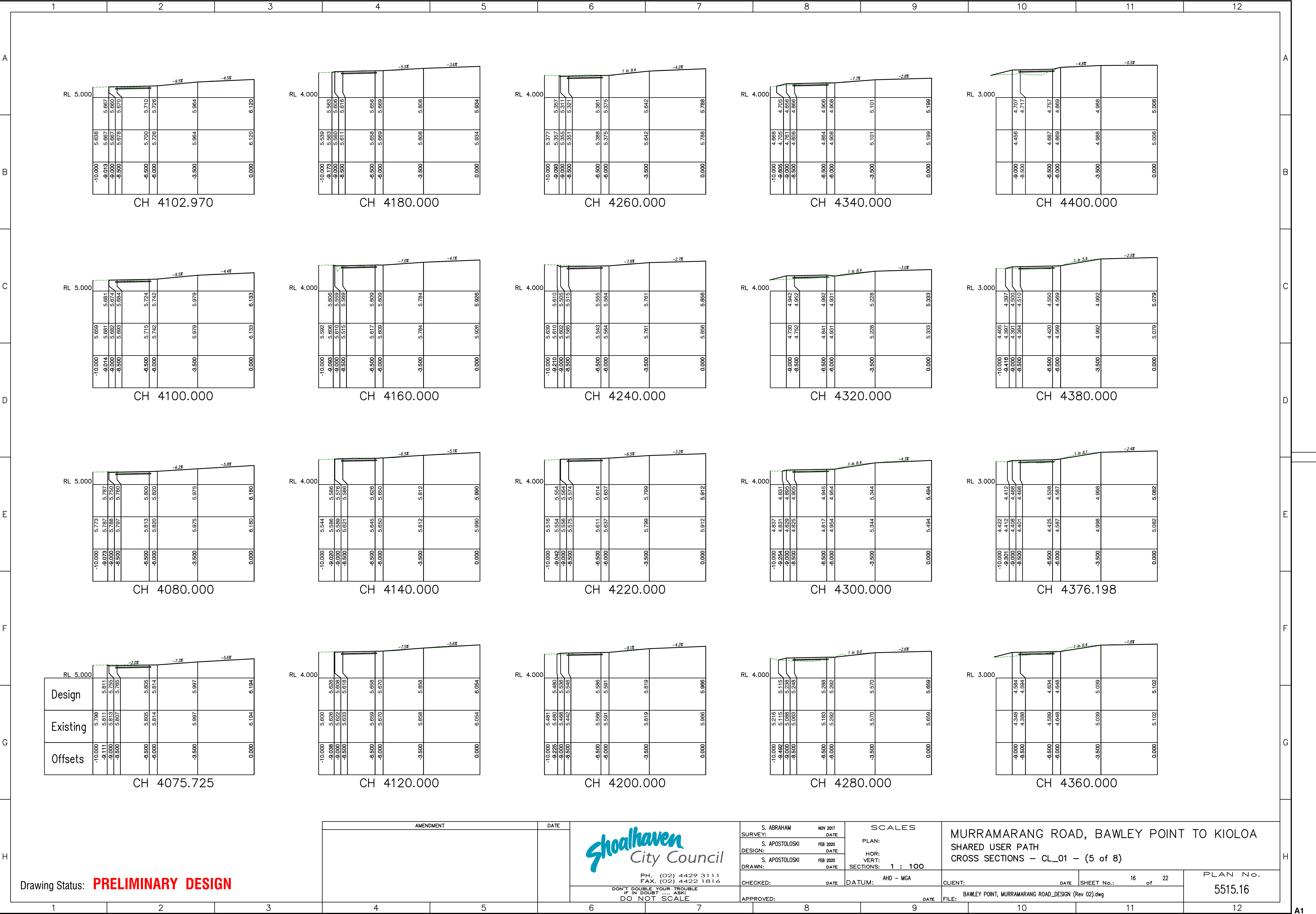




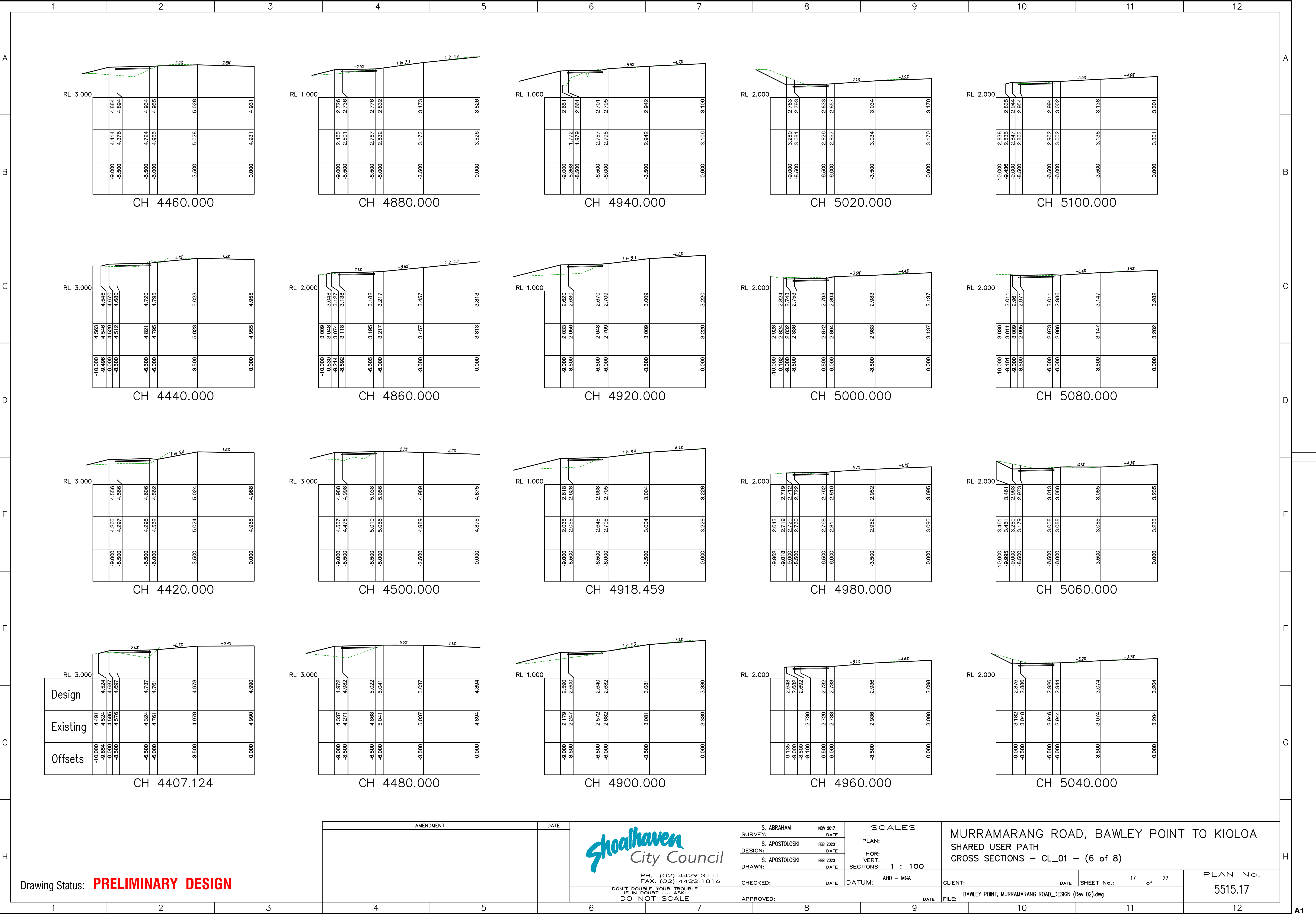








Drawing Status: **PRELIMINARY DESIGN**

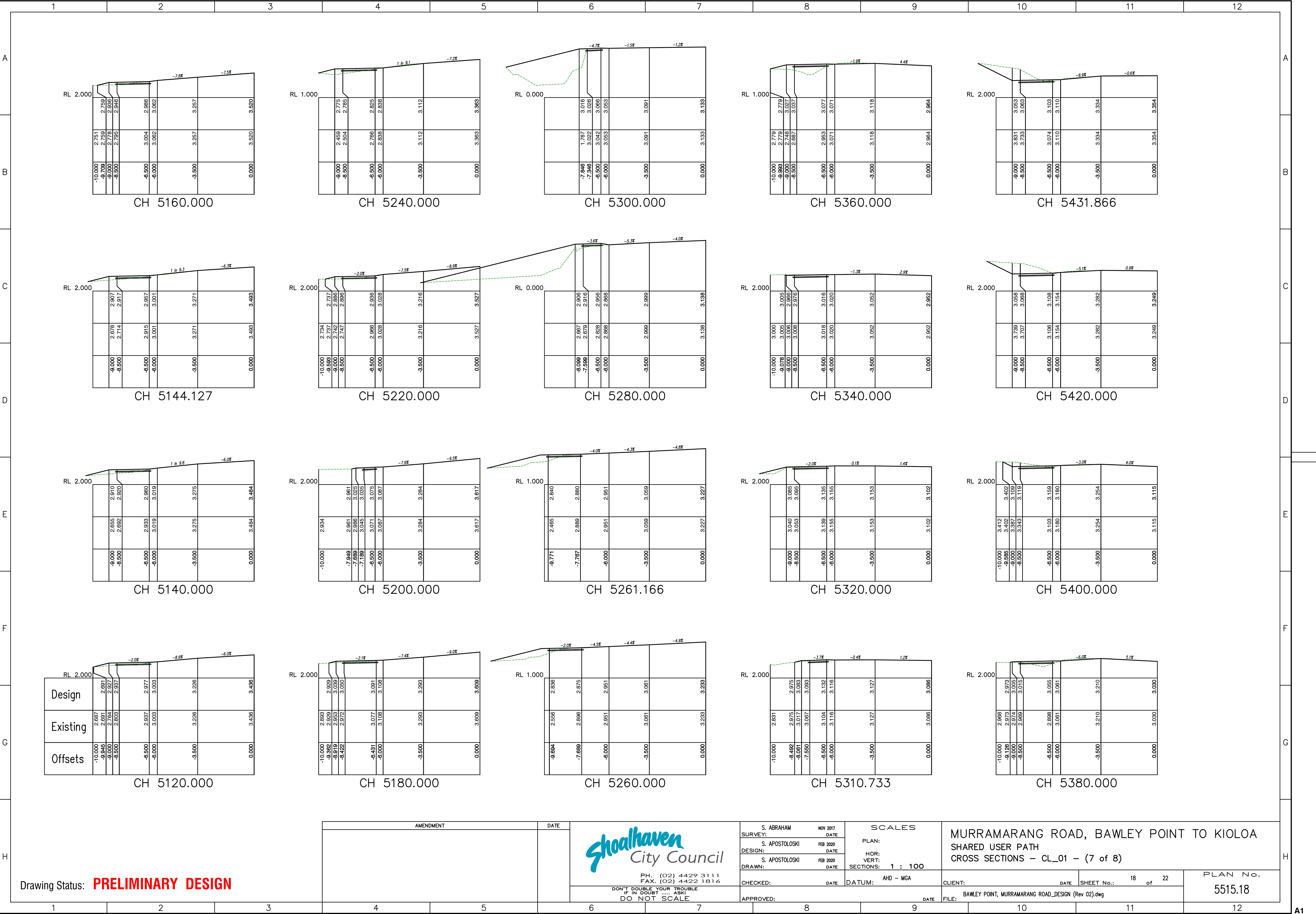


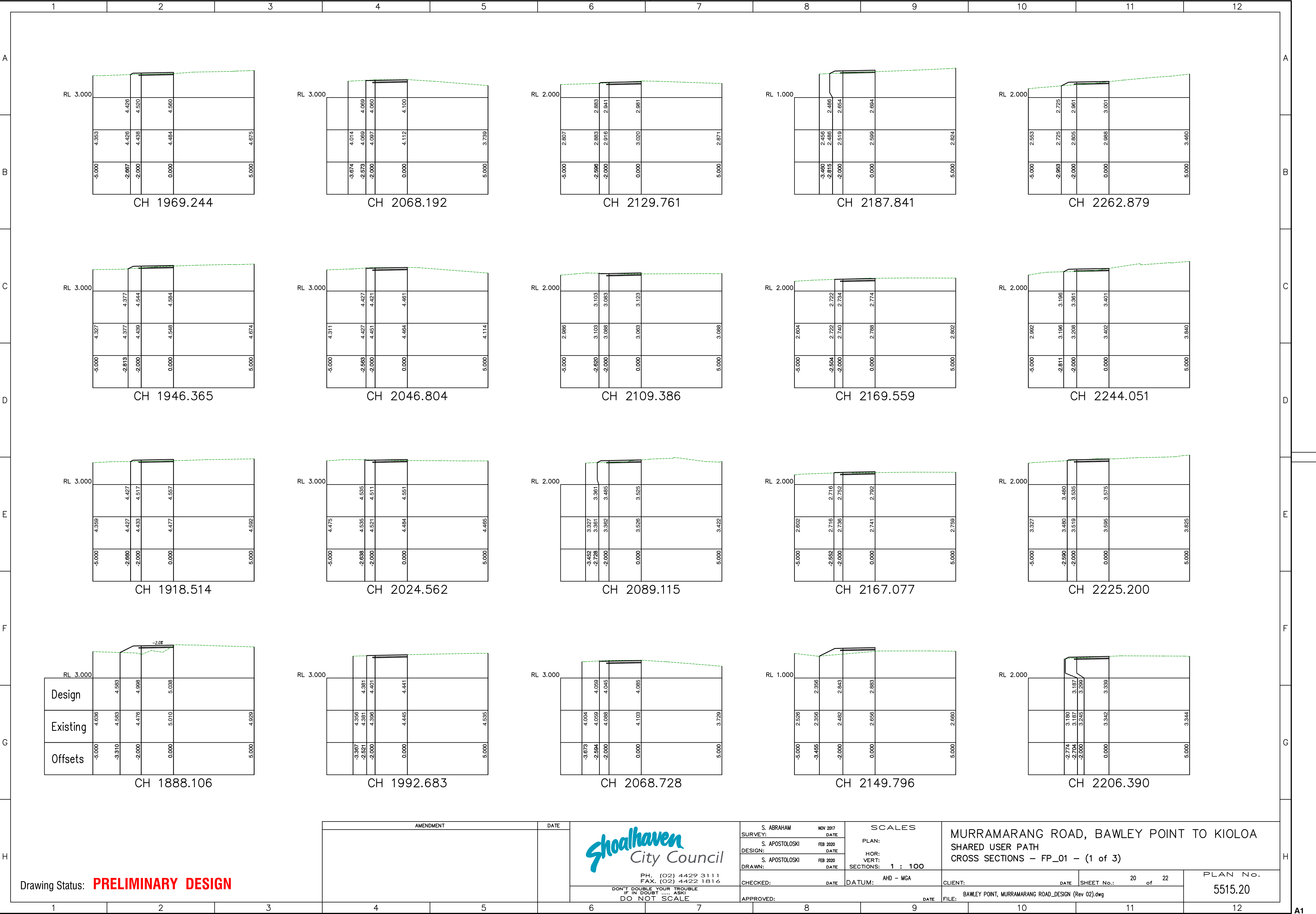
Drawing Status: **PRELIMINARY DESIGN**

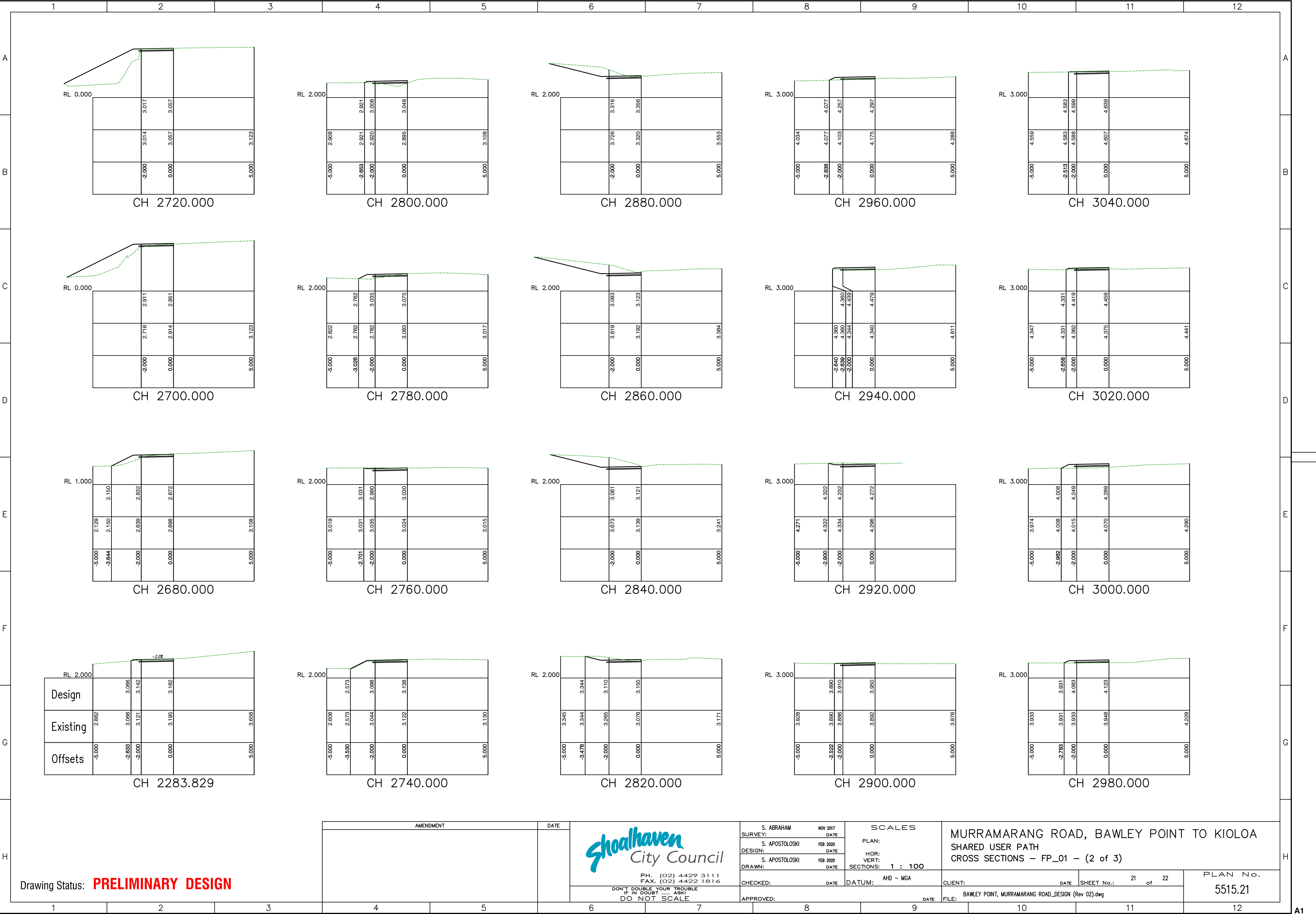


S. ABRAHAM	NOV 2017	SCALES
SURVEY:	DATE	
S. APOSTOLOSKI	FEB 2020	
DESIGN:	DATE	
S. APOSTOLOSKI	FEB 2020	HOR: VERT: 1 : 100
DRAWN:	DATE	
CHECKED:	DATE	DATUM: AHD - MGA
APPROVED:	DATE	

MURRAMARANG ROAD, BAWLEY POINT TO KIOLOA SHARED USER PATH CROSS SECTIONS – CL_01 – (6 of 8)			PLAN No. 5515.17	
CLIENT:	DATE	SHEET No.: 17 of 22		
FILE:	BAWLEY POINT, MURRAMARANG ROAD_DESIGN (Rev 02).dwg			







Drawing Status: **PRELIMINARY DESIGN**

