

MERIDIAN CENTRAL ESTATE - STAGE 40

BROWNS PROPERTY PTY. LTD.

CITY OF CASEY

CONSTRUCTION NOTES

SITE MANAGEMENT

- A1. Prior to commencement of works on site, the contractor must ensure that all matters relating to the Occupational Health & Safety Act 2004, including all relevant regulations, have been addressed. In particular, the required notifications must be conveyed to the Victorian Workcover Authority - Health & Safety division with respect to trenching operations. Details of the contractors occupational health & safety procedures must be lodged with the superintendent prior to commencement of works.
- A2. All native trees & shrubs to be retained unless road construction necessitates their removal or removal is directed by the engineer. A town planning permit is required for the removal of native trees & / or vegetation. The removal or retention of any existing trees must be in accordance with the approved landscape plan, or else approval will be required from the City of Casey landscape approvals officer.
- A3. Existing dam or watercourses to be excavated to a firm base & backfilled as specified. Consulting engineer to be notified when the dam or watercourses are excavated to a firm base. No filling is to be placed prior to dams being inspected & levels taken. Backfilling is to be carried out to the satisfaction of the Council supervising engineer.
- A4. Prior to commencement of works, the contractor must submit a Site Management Plan (SMP) to the consultant for approval. The contractor must comply with the recommendations of the Environment Protection Authority publication No.275 "Construction techniques for sediment pollution control". Appropriate siltation control is to be maintained throughout the construction & maintenance period of the works.
- A5. Provide temporary safety barrier fence (Farm Fence as per MW Std Dwg 72514/203) along extent of outfall drain where the drain is greater than 1.5m in depth & side slopes are steeper than 1 in 3. Safety fence to remain until permanent underground drainage is installed.
- A6. A temporary fence shall be erected & maintained around existing trees, nominated to be retained, at all times during construction. (For fencing details & construction works within the "Tree protection zone" refer to the arboricultural inspection report by XXXXX). - **DELETE IF NOT REQUIRED**
- A7. Contractor to remove existing irrigation & drainage pipes & pits encountered on site. Trenches to be backfilled in accordance with notes C2 & C3.

GENERAL

- B1. All works to be carried out in accordance with AS2124-1992 general conditions of contract & the City of Casey current specification & standard drawings & to the satisfaction of the City of Casey works supervisor.
- B2. Council to be notified two (2) clear days prior to commencement of works.
- B3. Before commencement of works on trenches in excess of 1.5m deep, the civil contractors construction supervisor must give notice in writing of such proposals to Worksafe Victoria in accordance with Part 5.1, Division 4 of the Occupational Health & Safety regulations (2007) & undertake safety precautions in trenching operations in accordance with Workcover's code of practice (1988).
- B4. Lots to be graded (1 in 150 min slope) & left clean to the satisfaction of the engineer. Finished levels to be compatible with lots adjoining this stage.
- B5. On completion the contractor is responsible for the removal of all rubbish & spoil from site. No surplus trees, vegetation or other material is to be burnt on site.
- B6. Reserves to be free draining & to be left in a condition satisfactory to the City of Casey works supervisor.
- B7. Where works are in the vicinity of existing services these services are to be located & the various authorities notified prior to the commencement of works.
- B8. All TBM's & control points are to be maintained & protected at all times during construction. Should any marks be disturbed, the contractor will immediately notify the consultant to arrange re-installation at the contractors expense.
- B9. Provide painted paling fence along any boundary common to lots & municipal reserves as per Council Std. Dwg. S-706. Paling to be on the reserve side.
- B10. As constructed plans and electronic asset information in D-Spec and R-Spec format must be submitted to Council prior to practical completion.
- B11. A CCTV report must be provided for all drainage lines prior to issue of practical completion.
- B12. An environmental management plan (EMP) must be submitted to and approved by Council prior to the commencement of any works on site and all works must be carried out in accordance with this EMP.
- B13. A traffic management plan (TMP) must be submitted to, and approved by council prior to the commencement of any works on site and all traffic management must be carried out in accordance with this TMP.
- B14. If any existing substandard filling is encountered on the site it must be removed and replaced with approved fill material properly compacted to council requirements. A geo-technical report must be submitted showing detail of depth, type of material and density of the fill areas concerned.
- B15. Temporary crushed rock turn around areas must be maintained in a safe and sound condition so that vehicles area able to use them at all times.

ROADWORKS

- C1. 100a agricultural pipe drains (MPA standard drawing EDCM 202) to be placed behind all kerb & channel & buffer pitchers & where directed by the engineer.
- C2. Filling in all properties & road reserves is to be carried out using approved clay fill. Top soil & all vegetable matter to be stripped from site prior to filling. All filling to be carried out in accordance with AS3798-2007 and the geotechnical report. Level 1 inspection

and testing to be carried out in accordance with AS3798-2007 Section 8.2. A fill report must be submitted to the Consultant, showing from a NATA registered soil testing laboratory.

- C3. Importing Fill- All imported fill must be tested by a NATA approved laboratory to ensure it is suitable for use on site, & any contaminants are within accepted levels. Under no circumstances should fill material enter or leave the site without the permission of the supervising engineer & Council works supervisor, prior to it being appropriately tested. All vehicles transporting fill material to & from the site must have appropriate measures in place to ensure that material does not get onto roads & into stormwater systems & natural waterways.
- C4. Batters to be 1 in 5 for fill & 1 in 3 for cut unless noted otherwise.
- C5. Cut batters are to be grassed & mulched with a mixture of chopped grass, straw & bitumen emulsion.
- C6. Where cut batters exceed 700mm an additional 300mm berm shall be formed behind footpath.
- C7. Access ramps are to be constructed where cut batters exceed 1.0m. They are to be graded 1 in 10 for the first 2.5m from the back of path & then at a maximum of 1 in 4 to natural surface.
- C8. The water conduit offset from the lot boundary is given on the water reticulation plan. The contractor must construct conduits to accord with the given offset & ensure that the concrete marks the kerb & footpath exactly above the conduit.
- C9. Irrigation conduits are to be DN100 DWV PVC installed beneath the pavement and/or capping layer, if present. Locations are to be marked using a green dot spray painted on the top of kerb.
- C10. All footpaths are to be 125mm thick 25MPa concrete with SL72 mesh centrally located in accordance with the MPA standard drawing EDCM 401.
- C11. NBN Co to be notified seven (7) days prior to concrete works being placed.
- C12. Electrical distribution pits within footpaths are to be a minimum of 300mm within the edge of the path. Concrete is to be placed around distribution pits to a minimum depth of 200mm.
- C13. All street signs to be constructed & erected to current City of Casey standards including logo. Court street names are to show court name only.
- C14. Traffic control signs, markings & delineators to be installed in accordance with AS1742.2. All line marking is to be long life road marking, with longitudinal lines in thermoplastic & transverse markings in cold applied.
- C15. Driveways to be constructed in accordance with the MPA standard drawings EDCM 501 & EDCM 502. Single driveways to be a minimum 3.5m wide & to be offset 0.75m from side boundary or easement unless otherwise shown.
- C16. Kerb transition to take place in the minor street over a 2.0m length from either the tangent point or TP pit.
- C17. Existing road works to be reconstructed as required to provide, without discontinuity, a connection in accordance with design levels & grades.
- C18. Provide 2.5m wide shared footpath through reserves as shown on a curvilinear alignment to the satisfaction of the engineer.
- C19. Tactile ground surface indicators (TGSi) are to be installed at all pram crossings & pedestrian cross points in accordance with AS1428.4 : 2002 & MPA standard drawing EDCM 403.

DRAINAGE

- D1. Drainage & pits to be set out from offsets shown rather than from centreline pipe chainages.
- D2. Lightweight fibreglass type pit lids are required for all drainage pits & all grates for pits are to be Class D, to comply with AS3996 unless otherwise shown. All drainage works are to be constructed to council specifications.
- D3. All pipes up to and including 750mm in diameter shall be rubber ring jointed (RRJ). Pipes above this size may be flush jointed with external sealing bands. For pipes greater than 900mm and changes in direction between 2 connecting pipes exceeding 10° construct segmented curves using splayed pipes with banded joints, having deflections within the manufacturer's specification.
- D4. All pipes to be Class 2" R.C. unless noted otherwise. PVC pipes to be Class SH unless specified.
- D5. Pipe trenches beneath the road pavement, footpath or within 150mm of the kerb & channel to be backfilled with 20mm Class 3 FCR in 150mm layers.
- D6. Property inlets to be constructed as per MPA standard drawing EDCM 701 – EDCM 704.
- D7. All proposed drainage stubs to be blanked off at end of pipe with timber planks to the satisfaction of the supervising engineer.

PAVEMENT

- E1. Modification of the pavement requires approval by the City of Casey works supervisor.

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1801767-40-102	ROAD LONGITUDINAL SECTIONS KHILLARI CIRCUIT (SHEET 2 OF 2)	A
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1801767-40-401	DRAINAGE LONGITUDINAL SECTIONS (SHEET 2 OF 2)	A
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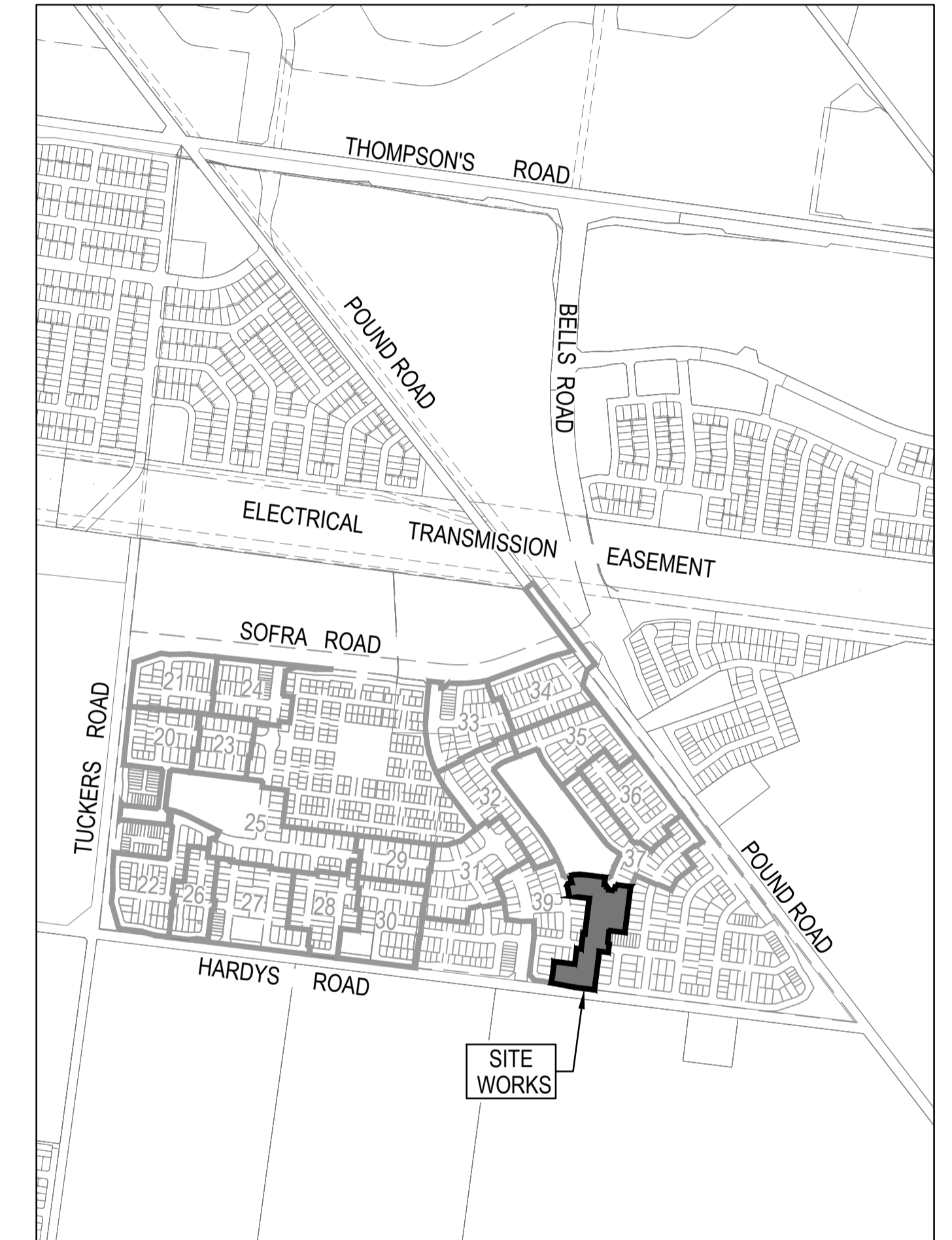
Survey Origin:

Coordinates are on a local plane datum based upon MGA2020 Zone 55 bearings and truncated MGA2020 Zone 55 co-ordinates at PM77. Heights are to AHD vide Permanent Mark PM 56 (Cranbourne) RL 26.71 Bearing Datum is MGA2020 Zone 55 which has been derived by our GPSnet Survey.

Plane Grid Coordinates to MGA2020 Zone 55 Grid Coordinates Conversion.

(PLANE SHIFT) Add + 353,823.586 to Eastings
Add +5,780,840.520 to Northings

(APPLY SCALE FACTOR) Scale by 0.999846 at point PM77



SITE PLAN

NOT TO SCALE

MELWAY REF: 135 F4

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A	ISSUED FOR CONSTRUCTION	21.12.22	C.D.	M.F.					



Designed
Date C.DAWSON
28.09.2022

Drawn
L.SUTHERLAND

Approved
Date M.FELICIANO
18.11.2022

PS Number
PS904418Y



Project
Details MERIDIAN CENTRAL ESTATE
STAGE 40
CITY OF CASEY

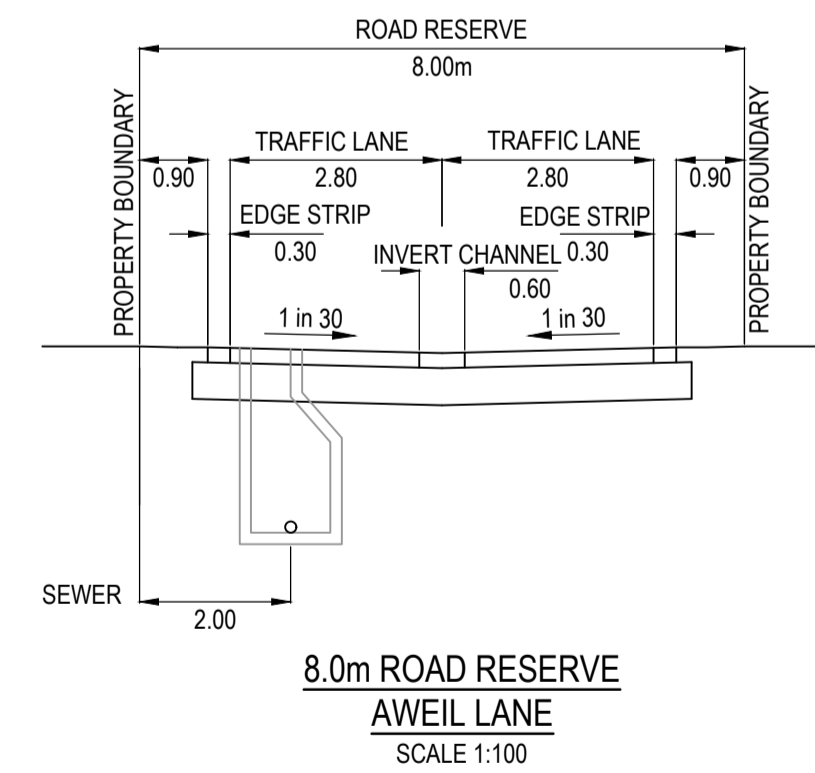
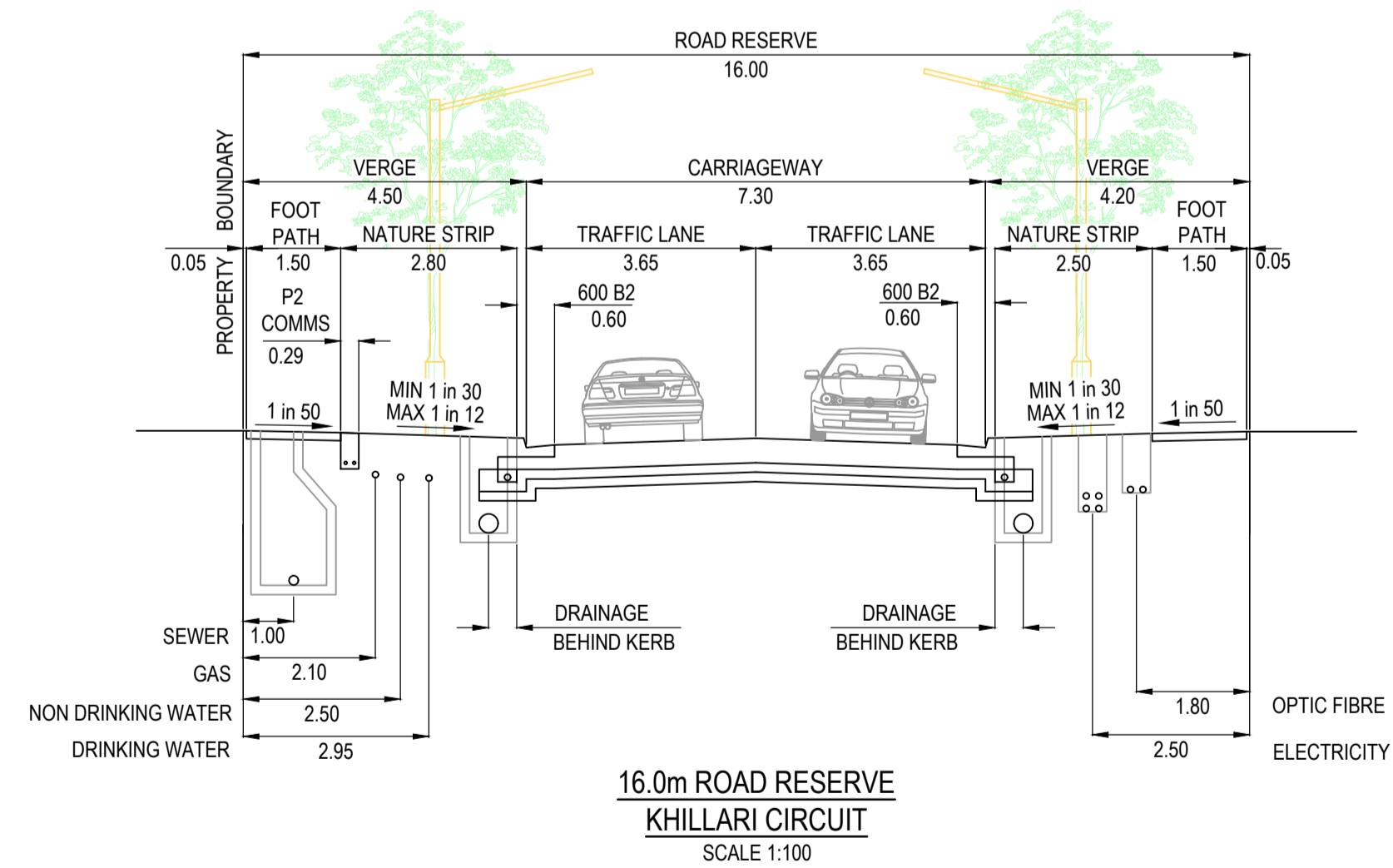
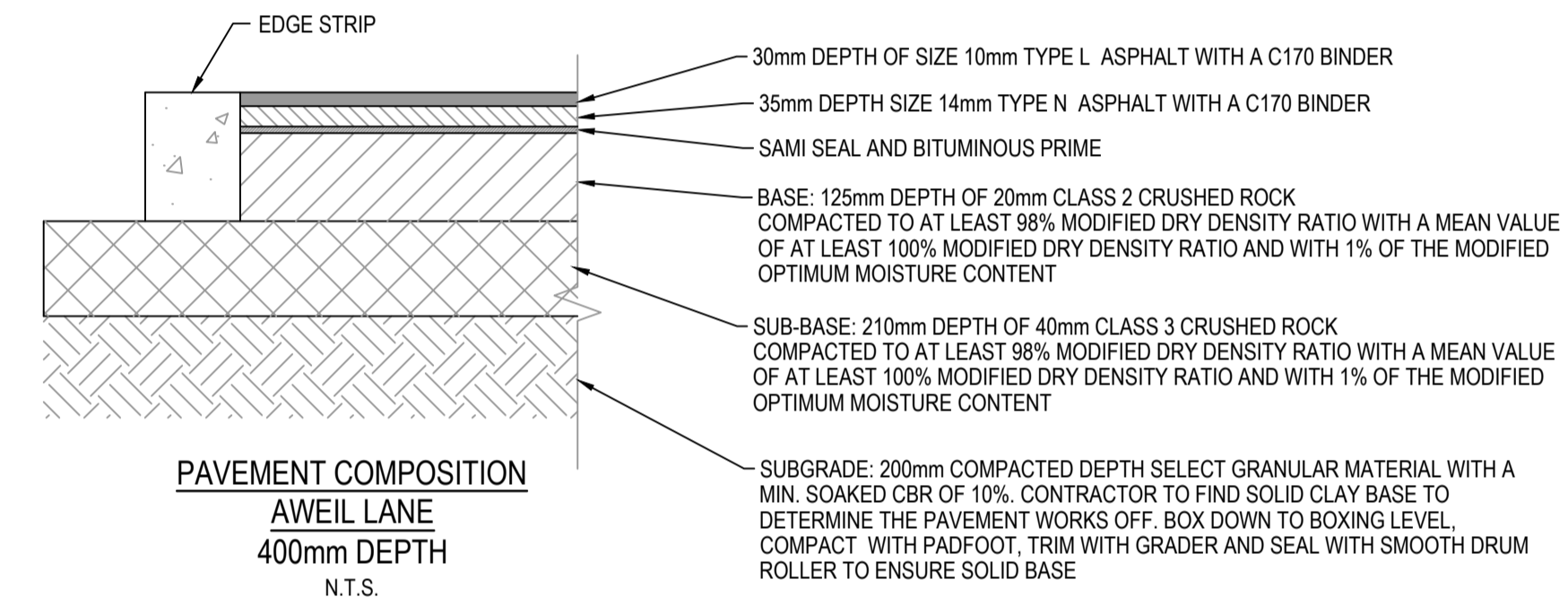
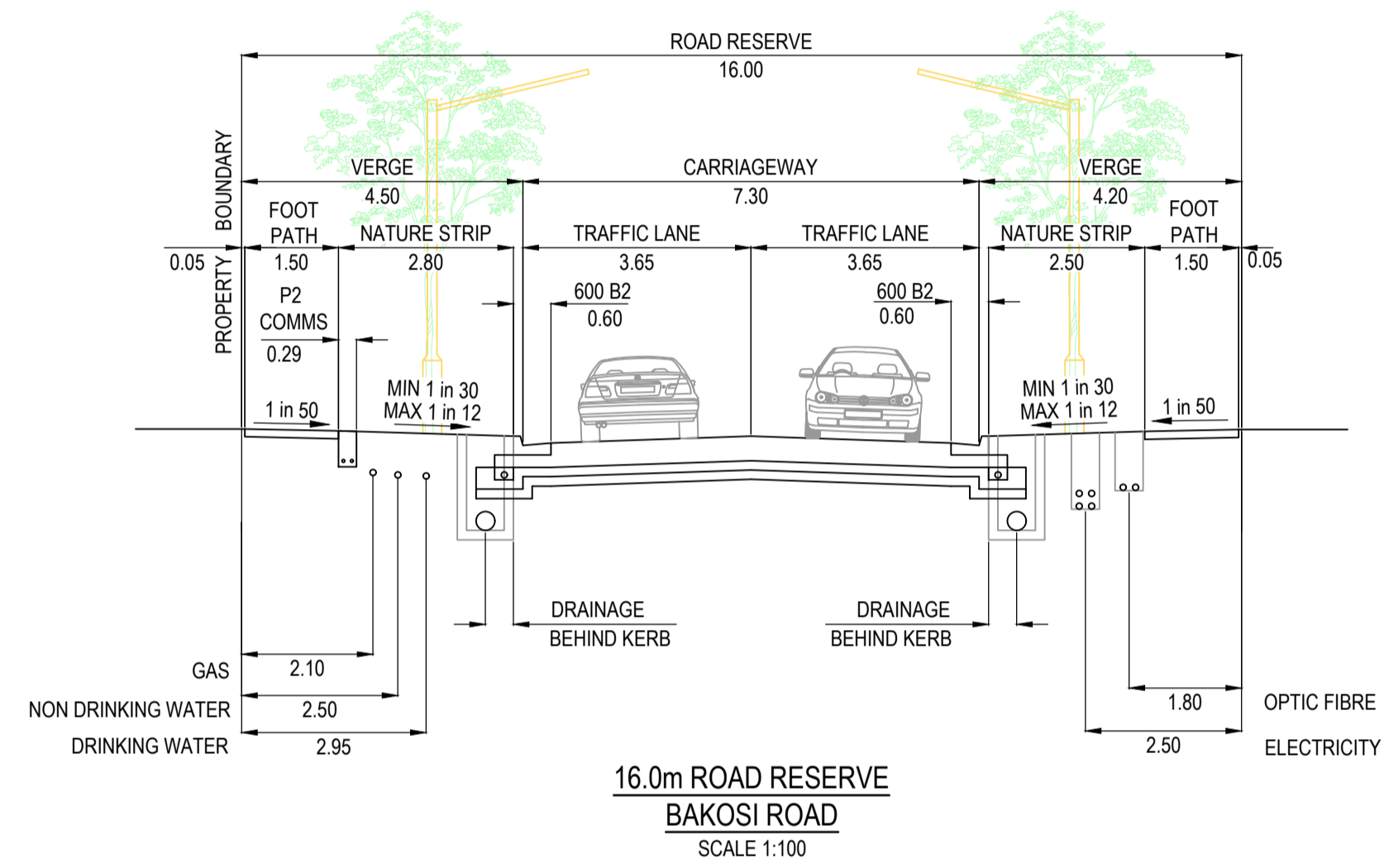
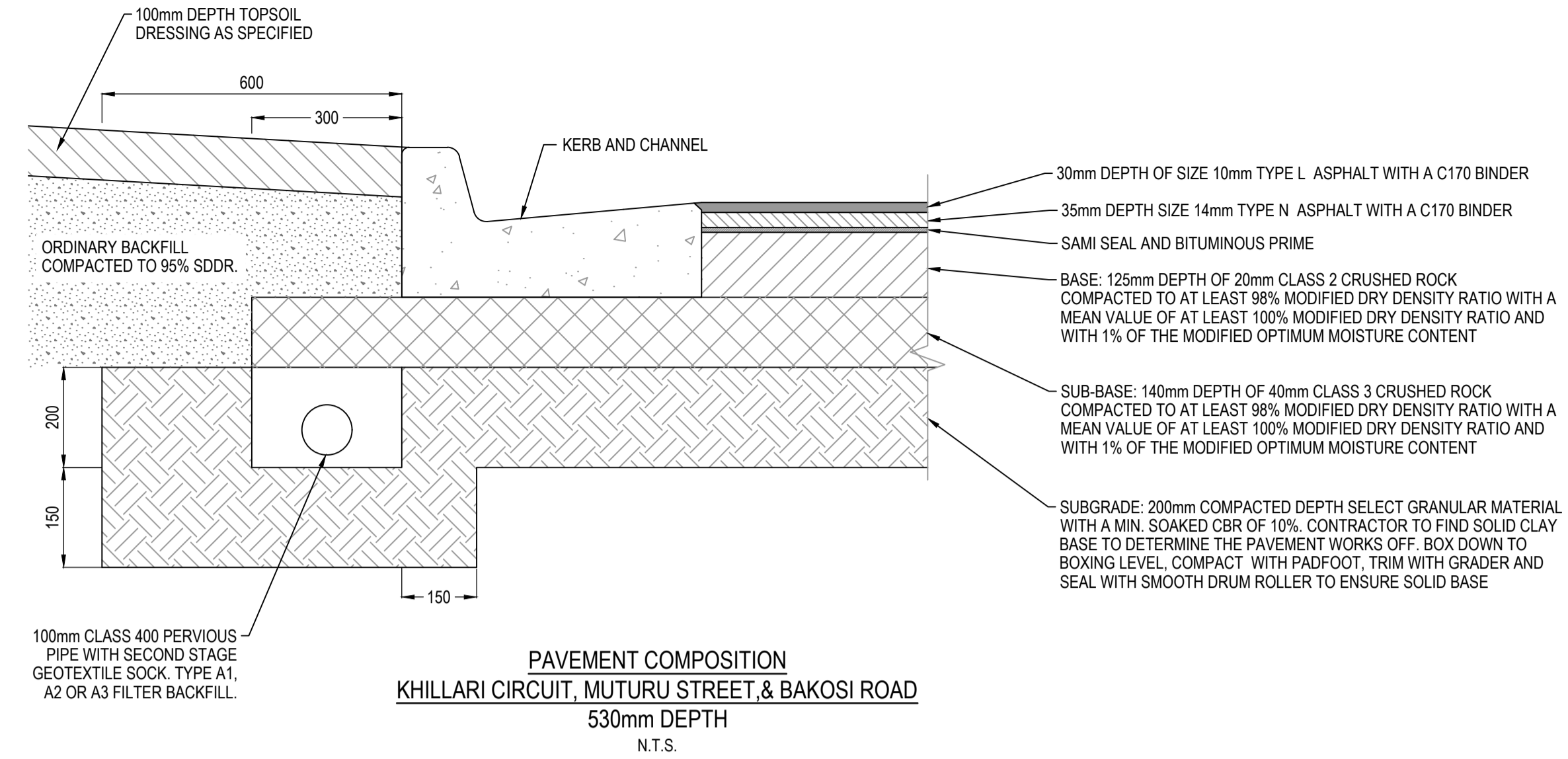
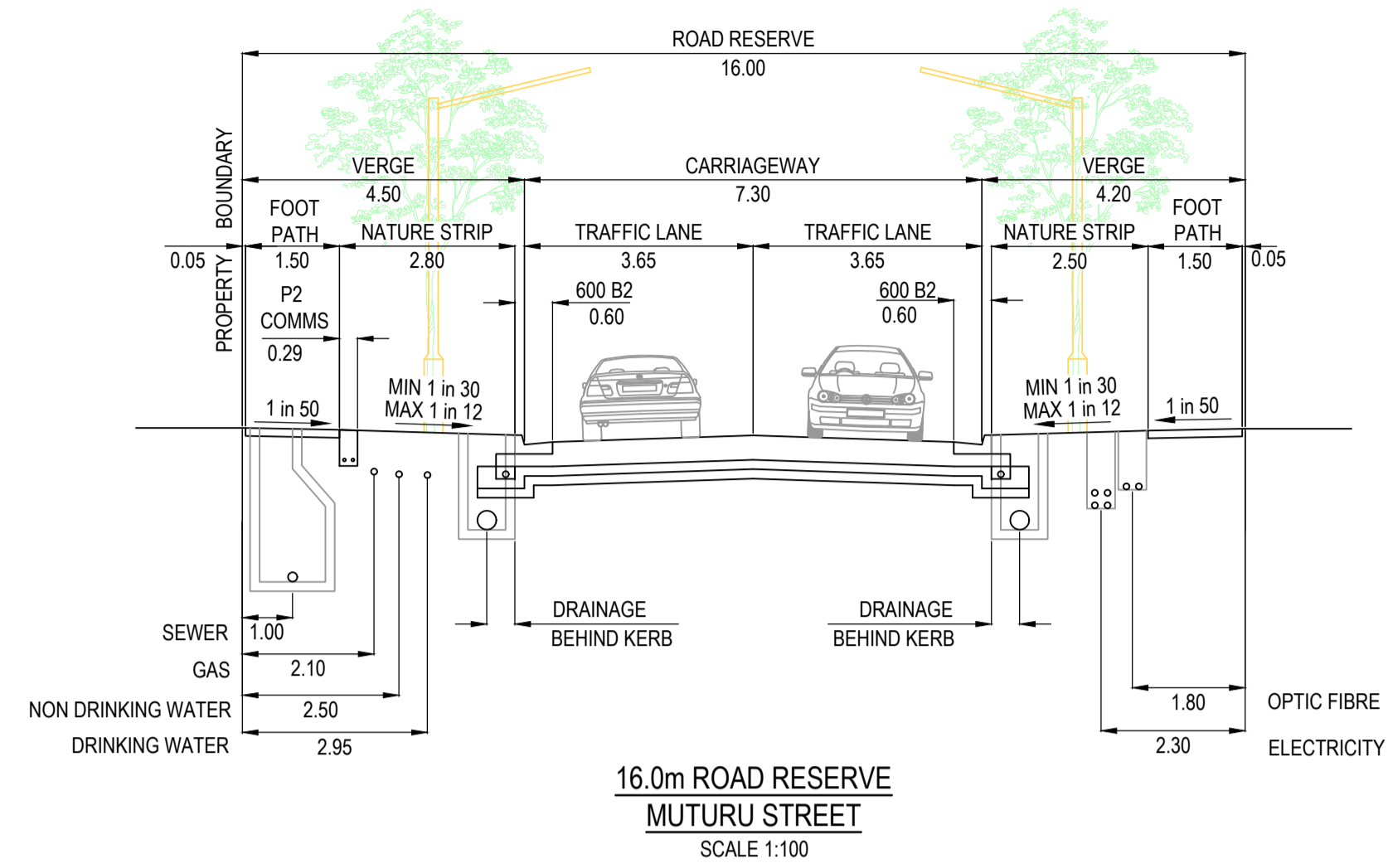
Drawing
Title COVER SHEET

Sheet 01 of 17

Scale



Project Ref	Stage No	Drawing No	Rev
1801767	40	001	A



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A	ISSUED FOR CONSTRUCTION	21.12.22	C.D.	M.F.					

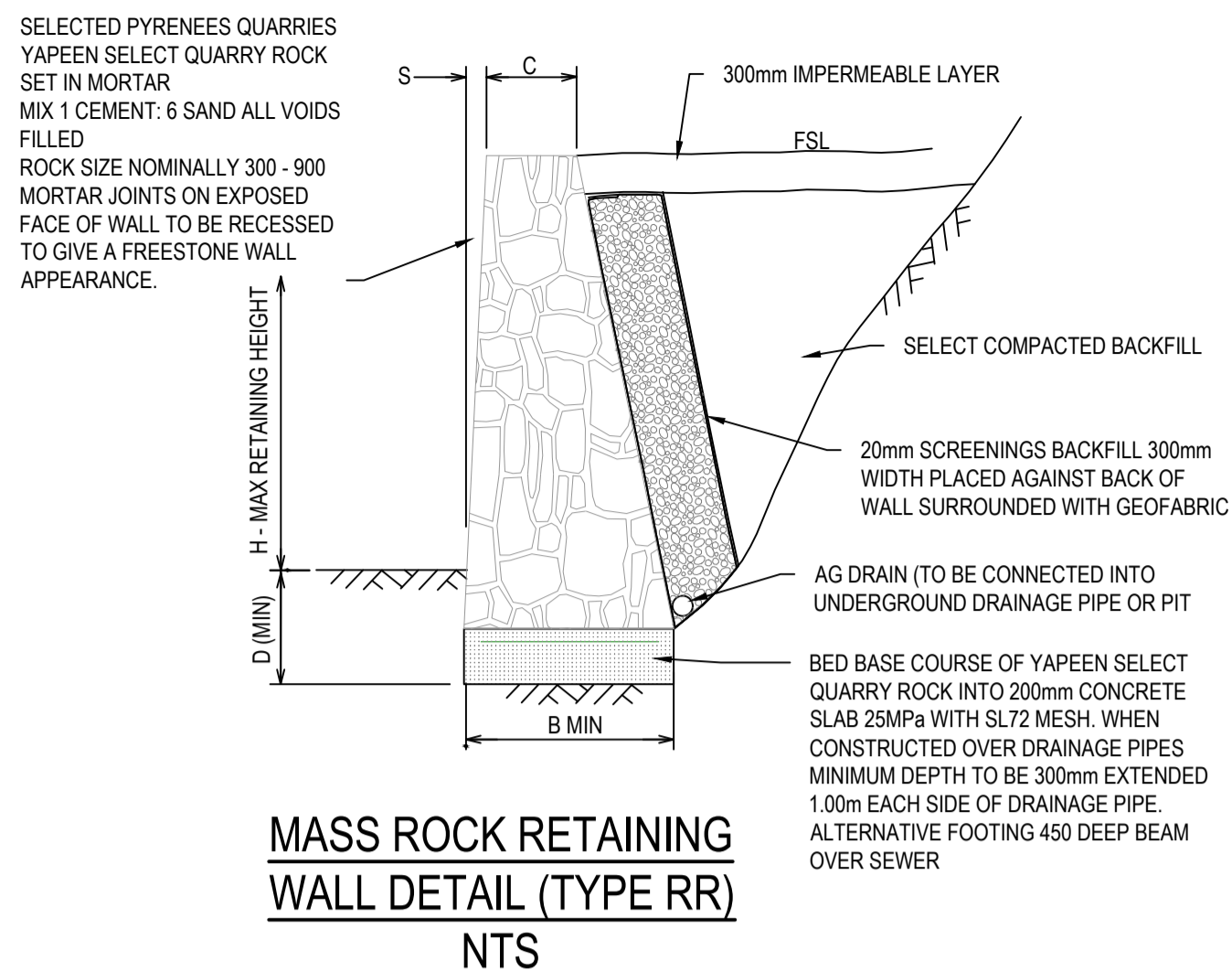


Designed Date: C.DAWSON 28.09.2022
Drawn: L.SUTHERLAND
Approved Date: M.FELICIANO 18.11.2022
PS Number: PS904418Y



Project Details: MERIDIAN CENTRAL ESTATE
STAGE 40
CITY OF CASEY
Drawing Title: TYPICAL ROAD CROSS SECTIONS AND PAVEMENT MAKEUP

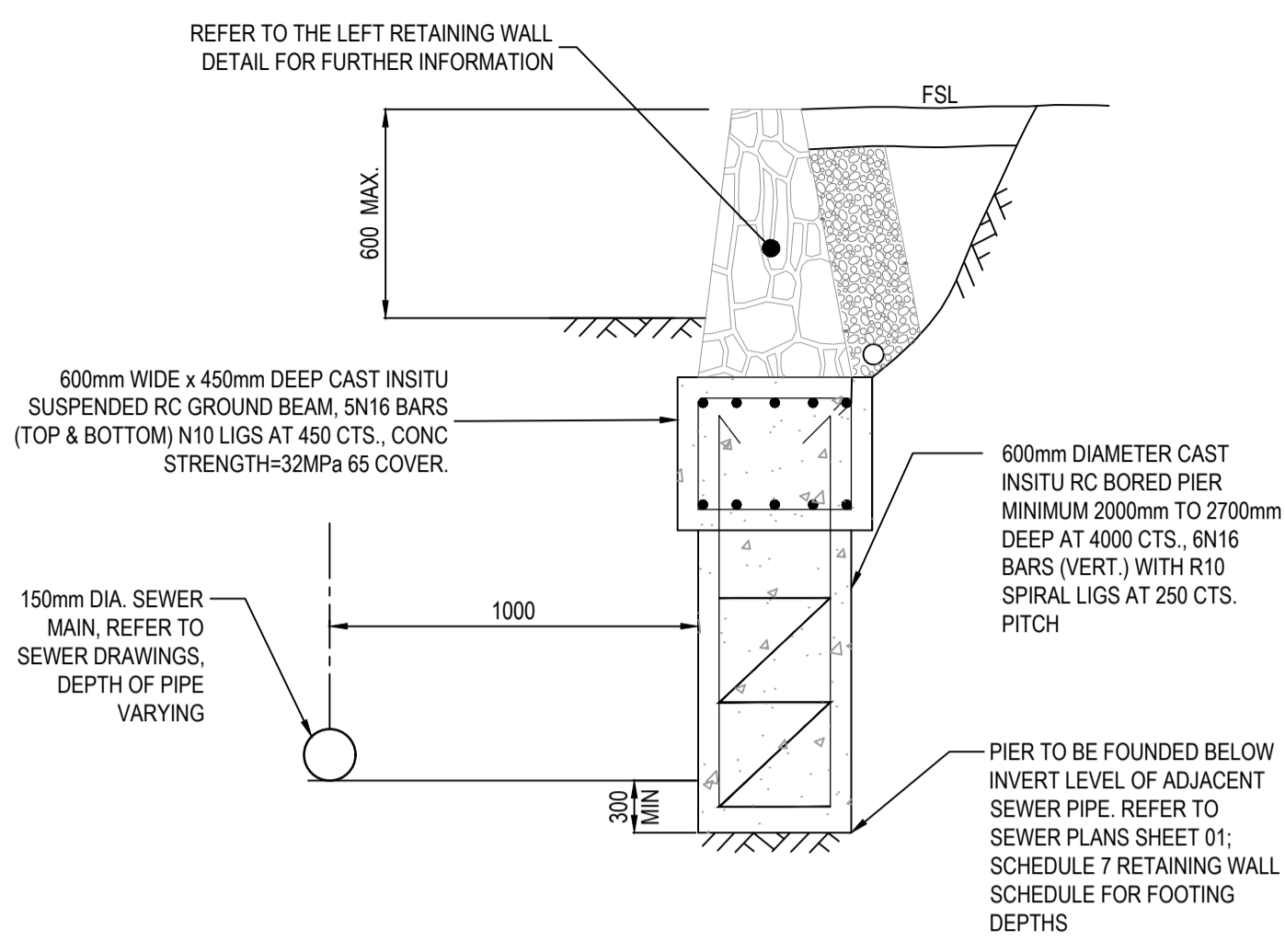
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Project Ref: 1801767	Stage No: 40
Drawing No: 002	Rev: A



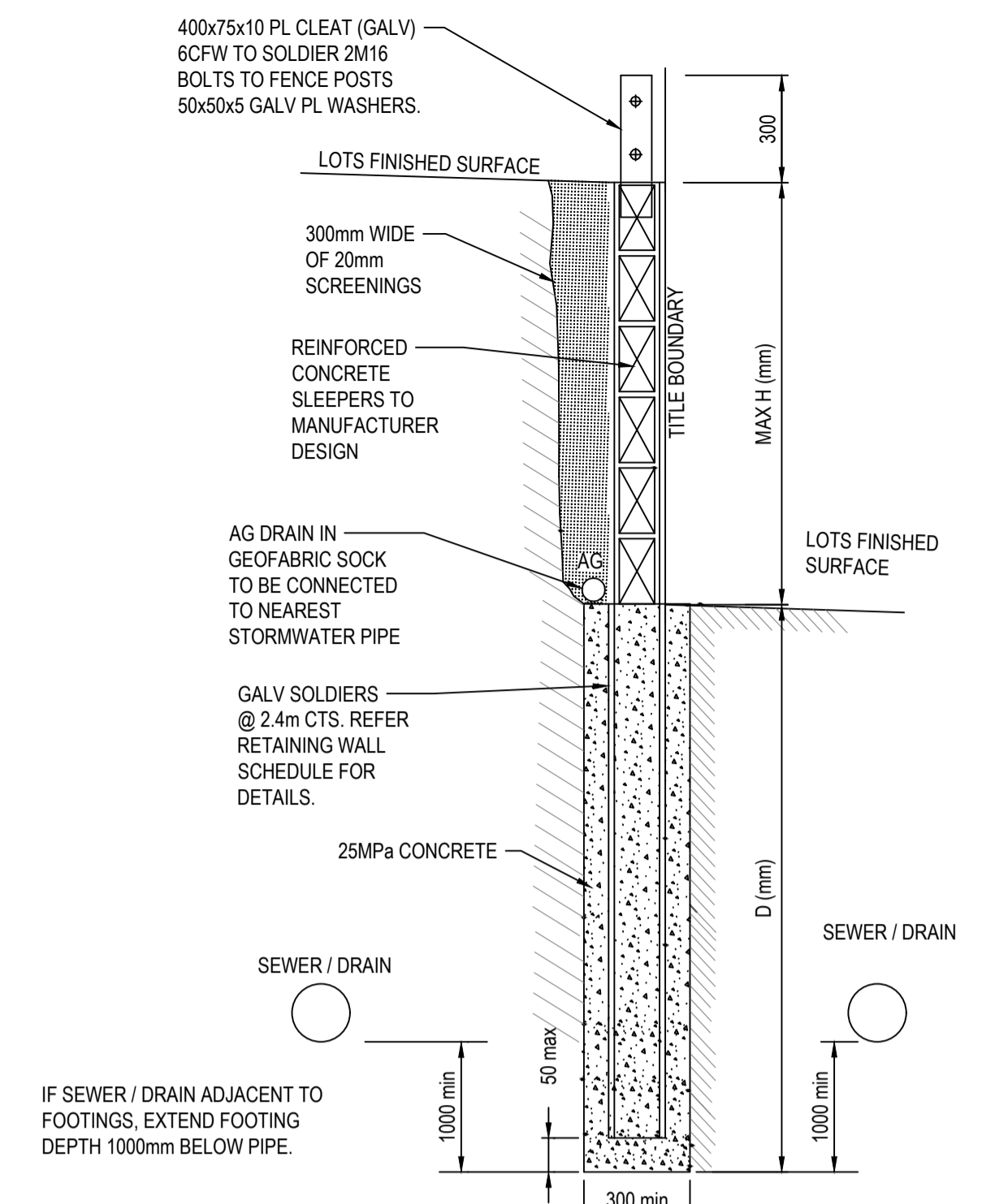
MASS ROCK RETAINING WALL SCHEDULE

MAX WALL HEIGHT-H(mm)	FOUNDING DEPTH-D(mm)	BASE WIDTH - B(mm)	FRONT FACE SETBACK-S (mm)	CREST WIDTH-C(mm)
400	400	450	15	300
500	400	500	15	300
600	400	500	30	300
800	400	600	30	300
1000	400	700	30	300

- RETAINING WALL NOTE R.1
 a. WHERE FOOTPATH ABUTS RETAINING WALL CONTINUE CONCRETE UP TO BASE OF RETAINING WALL.
- FOUNDING NOTE F.2
 a. TOE OF WALL SHALL PENETRATE THROUGH ANY FILL MATERIAL & THE NATURAL SILT SOILS TO BE FOUNDED AT LEAST 100mm INTO THIS UNDERLYING NATURAL STILL CLAY OR WEATHERED ROCK.
 ALL EXCAVATIONS SHALL HAVE FOUNDING DEPTHS AND BEARING CAPACITY APPROVED BY THE ENGINEER OR BUILDING SURVEYOR BEFORE CONCRETE IS PLACED.
 FOOTING EXCAVATIONS WHICH ARE DEEPEND TO PENETRATE THROUGH UNSUITABLE SOILS SHALL BE BACKFILLED UP TO UNDERSIDE OF FOOTINGS WITH 15 MPa BLINDING CONCRETE.
 b. ALL EXCAVATION FOUNDING SURFACES SHALL BE LEVEL (NOT INCLINED) CLEAN CUT & FREE OF MUD OR WATER.
 c. ALL SEEPAGE INFLOW SHALL BE REMOVED BEFORE PLACEMENT OF CONCRETE.
 d. FOOTINGS SHALL BE FOUNDED IN STIFF NATURAL CLAY HAVING A SAFE BEARING CAPACITY OF 150KPa.



**MASS ROCK RETAINING WALL FOOTING DETAIL
 PARALLEL WITH SEWER MAIN
 (MAX. 600mm HEIGHT)
 NTS**

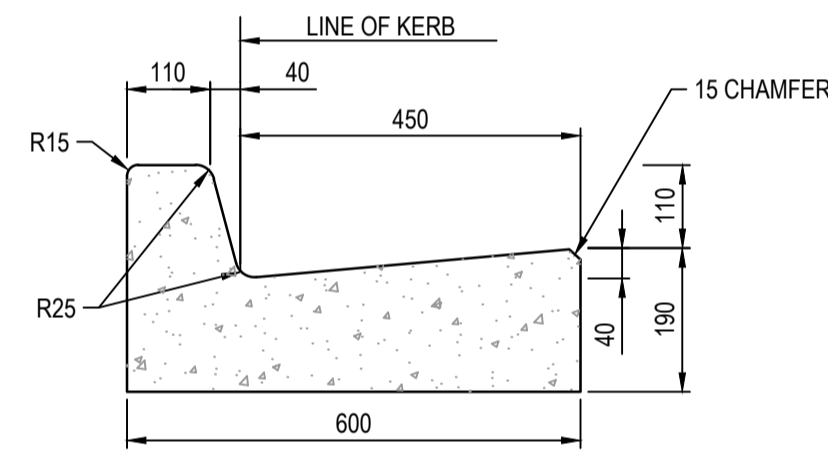


**CONCRETE SLEEPER RETAINING WALL DETAILS
 NTS**

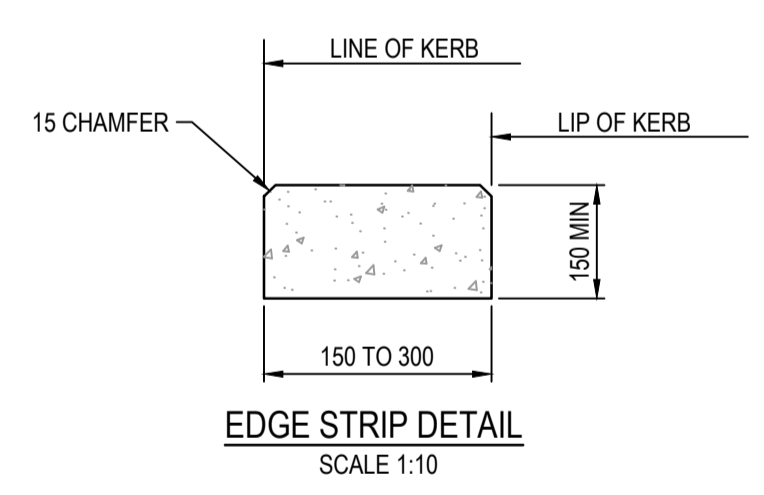
CONCRETE SLEEPER RETAINING WALL SCHEDULE

HEIGHT - H(mm)	DEPTH - D(mm)	SOLDIERS SIZE @ 2.4m CTS
600	900	100 UC 14.8
800	1200	100 UC 14.8
1000	1500	100 UC 14.8

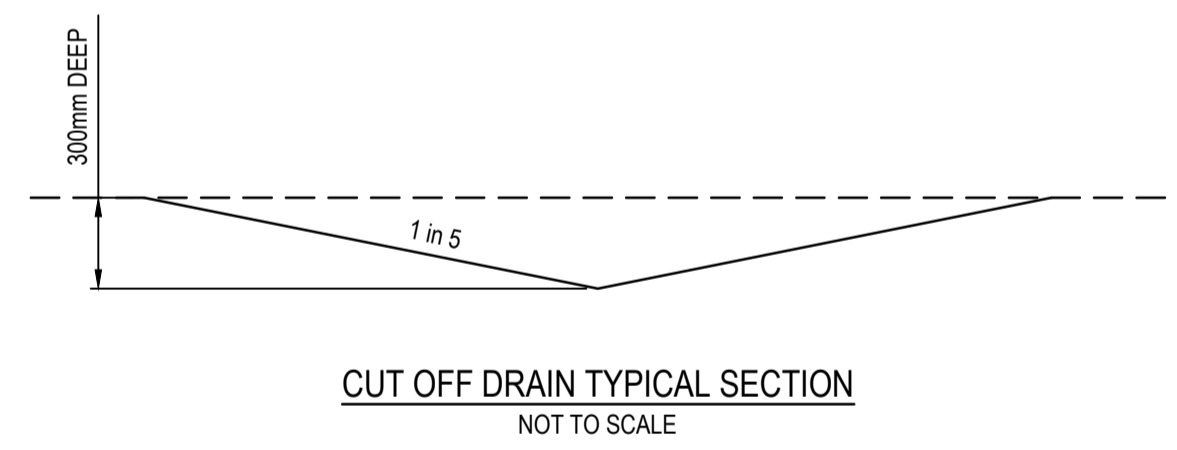
Dmin to BE GREATER OF THAT SHOWN ABOVE OR 1000mm BELOW ADJACENT SEWER / DRAINAGE



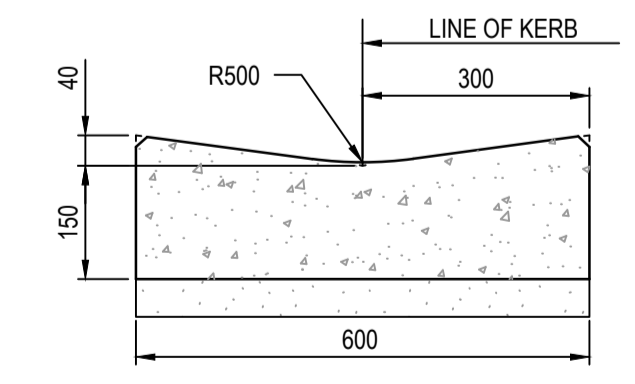
**600 WIDE BARRIER KERB (600 B2) DETAIL
 SCALE 1:10**



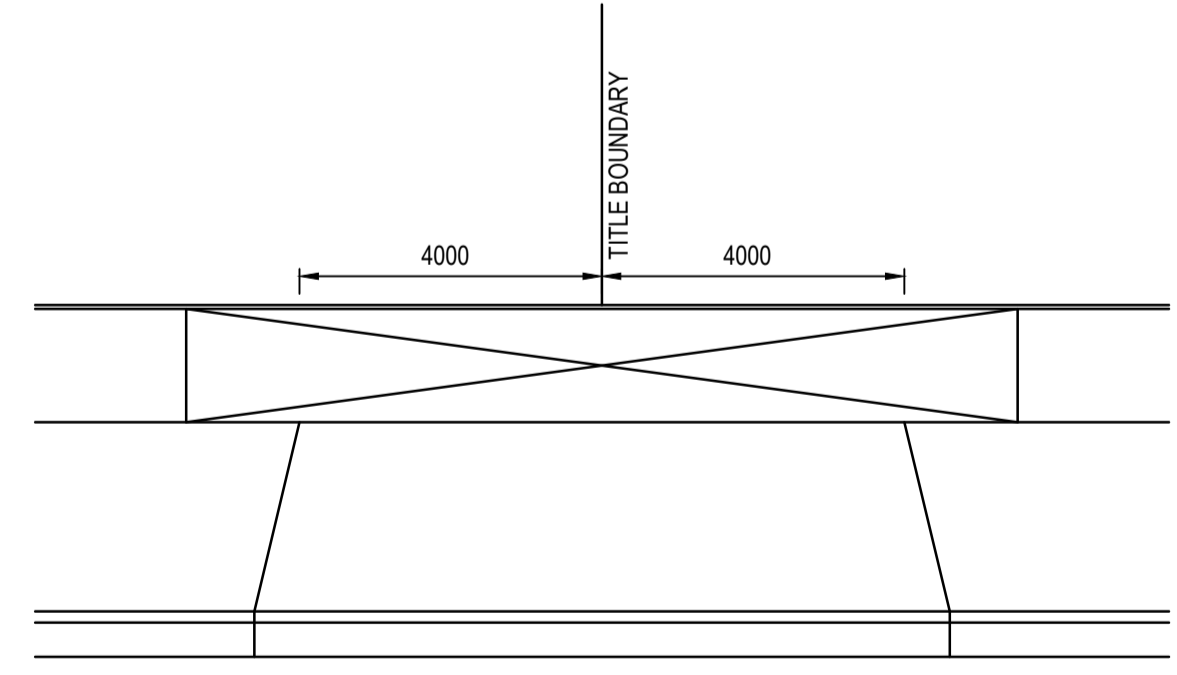
**EDGE STRIP DETAIL
 SCALE 1:10**



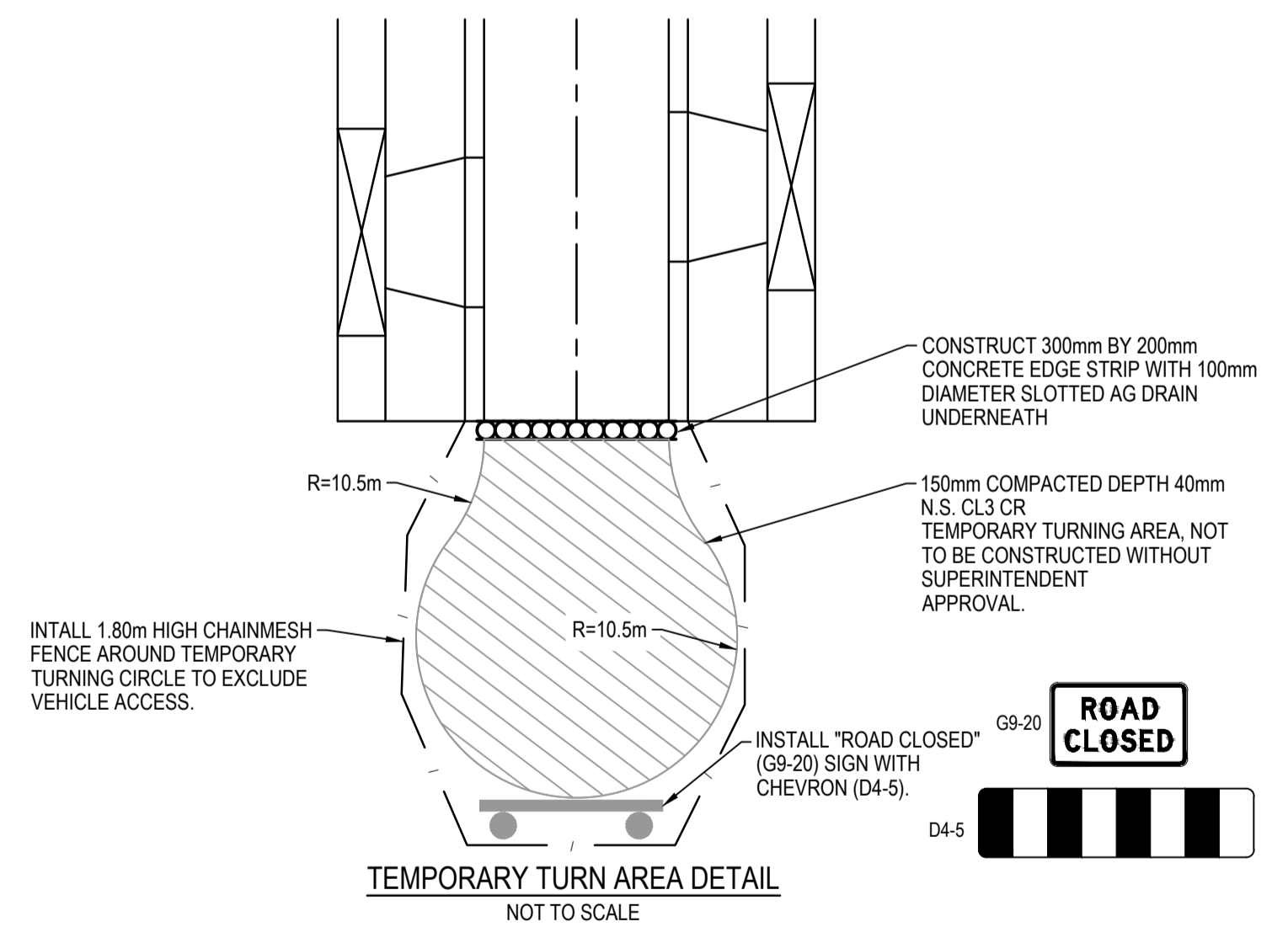
**CUT OFF DRAIN TYPICAL SECTION
 NOT TO SCALE**



**600 WIDE INVERT CHANNEL (600 INV) DETAIL
 SCALE 1:10**



**8.0m DOUBLE VEHICLE CROSSING DETAIL
 NOT TO SCALE**



**TEMPORARY TURN AREA DETAIL
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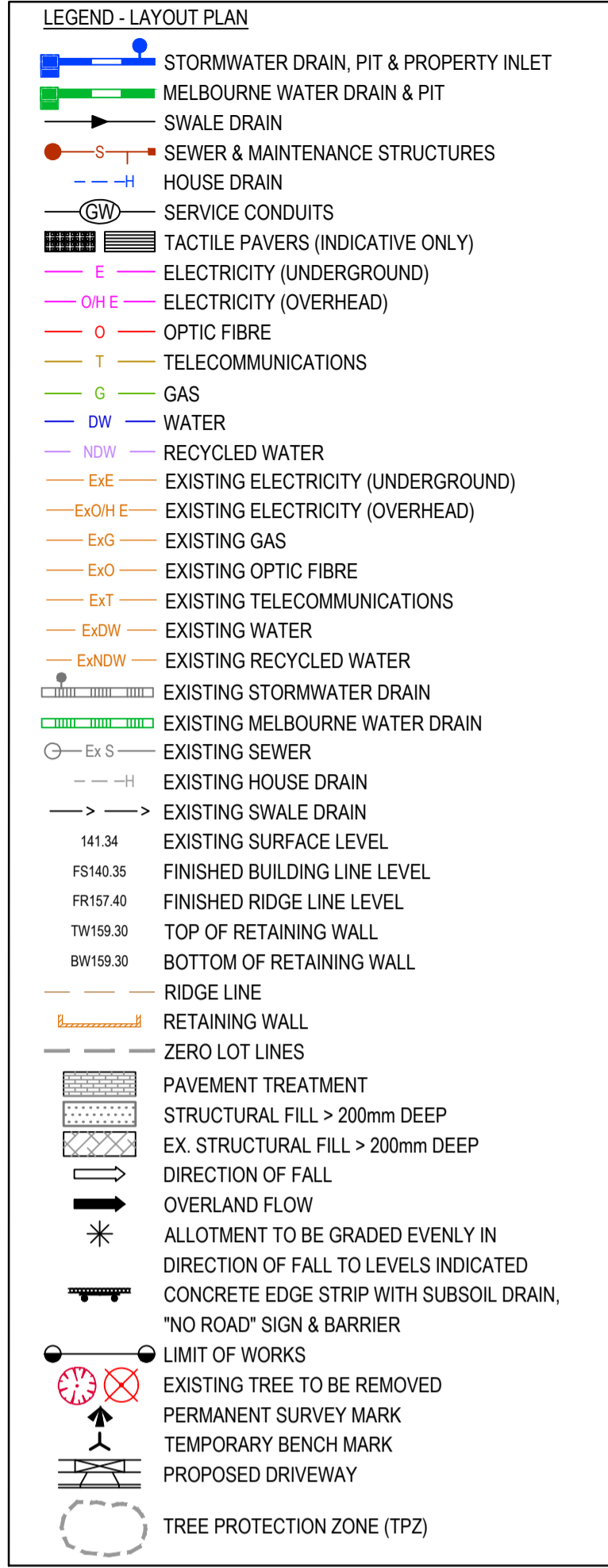
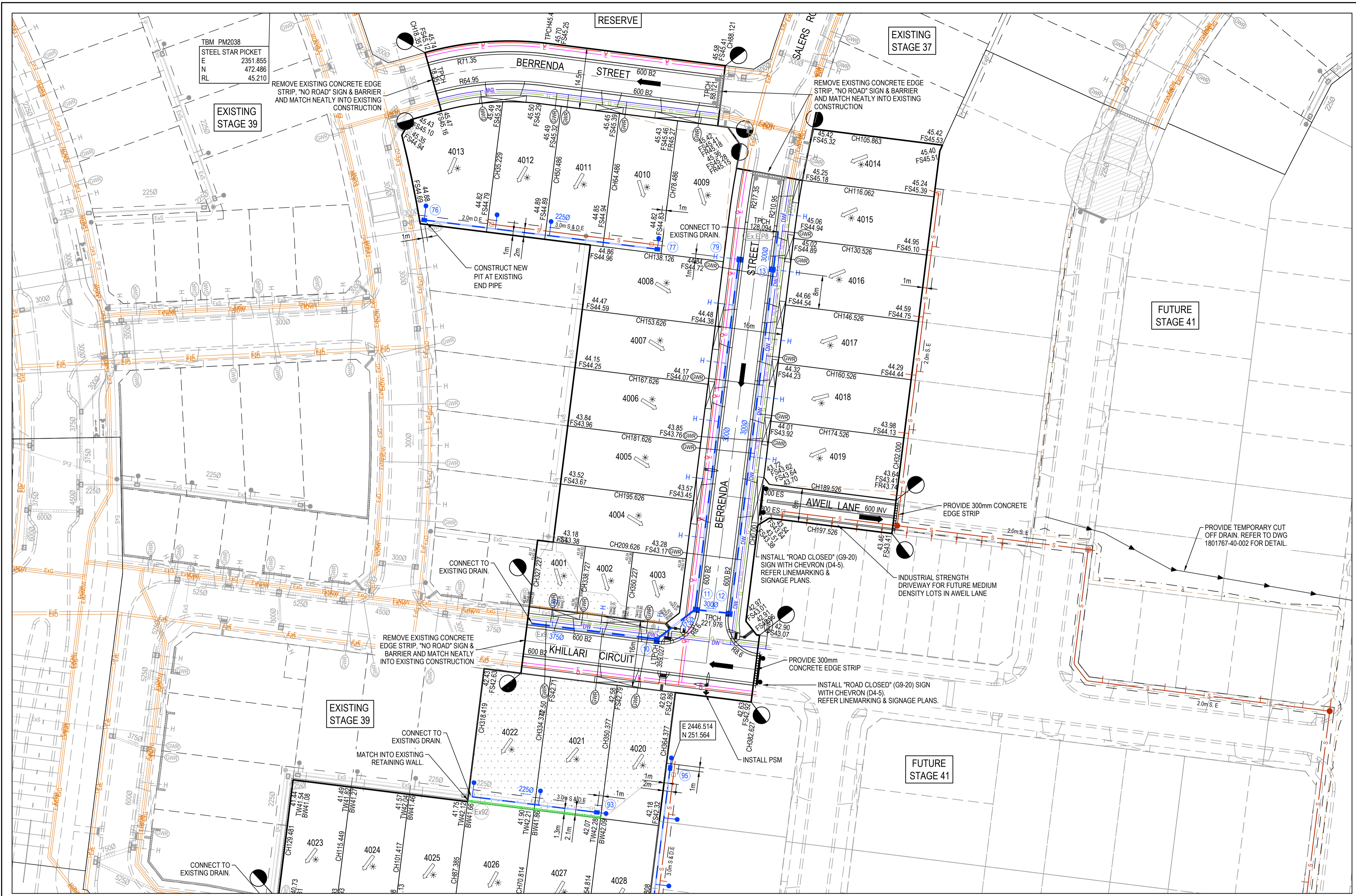


Designed Date: C.DAWSON 28.09.2022
 Drawn: L.SUTHERLAND
 Approved Date: M.FELICIANO 18.11.2022
 PS Number: PS904418Y



Project Details: MERIDIAN CENTRAL ESTATE STAGE 40 CITY OF CASEY
 Drawing Title: RETAINING WALL DETAILS AND GENERAL DETAILS

Sheet 03 of 17
 Scale: AS SHOWN
 Project Ref: 1801767 Stage No: 40 Drawing No: 003 Rev: A



FOR CONTINUATION REFER DRG 1801767-40-011

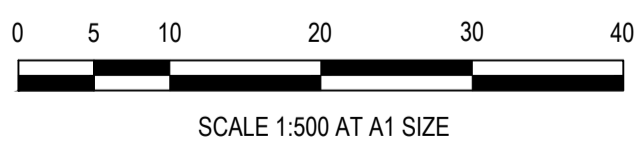
ROAD LAYOUT TABLE

Road Name	Reserve Width (m)	Road Width (m)			Kerb Type		Verge Width (m)	
		Lip to Lip	Inv to Inv	Back to Back	Nth/West	Sth/East	Nth/West	Sth/East
BERRENDA STREET (E-W)	14.50	6.40	7.30	7.60	600 B2	600 B2	2.70	4.50
BERRENDA STREET (N-S)	16.00	6.40	7.30	7.60	600 B2	600 B2	4.20	4.50
KHILLARI CIRCUIT (LOTS 4020 - 4022)	16.00	6.40	7.30	7.60	600 B2	600 B2	4.50	4.20
KHILLARI CIRCUIT (LOTS 4023 - 4028)	14.50	6.40	7.30	7.60	600 B2	600 B2	4.50	2.70
AWEIL LANE	8.00	5.60	-	6.20	300 ES	300 ES	0.90	0.90

SERVICE OFFSET TABLE

Location	Gas		ND - Water		Water		Electricity		Telecommunication		Sewer	
	Side	Offset (m)	Side	Offset (m)	Side	Offset (m)	Side	Offset (m)	Side	Offset (m)	Side	Offset (m)
BERRENDA STREET (14.50m)	S	2.10	S	2.50	S	2.95	N	1.10	N	0.40	-	-
BERRENDA STREET (16.00m)	E	2.10	E	2.50	E	2.95	W	2.60	W	1.90	-	-
KHILLARI CIRCUIT (LOTS 4020 - 4022)	N	2.10	N	2.50	N	2.95	S	2.60	S	1.90	N	Ex1.0
KHILLARI CIRCUIT (LOTS 4023 - 4028)	N	2.10	N	2.50	N	2.95	S	1.15	S	0.45	-	-
AWEIL LANE	-	-	-	-	-	-	-	-	-	-	S	2.00

NOTE: STREET TREES ARE TO BE PLANTED IN THE CENTRE OF ALL NATURE STRIPS



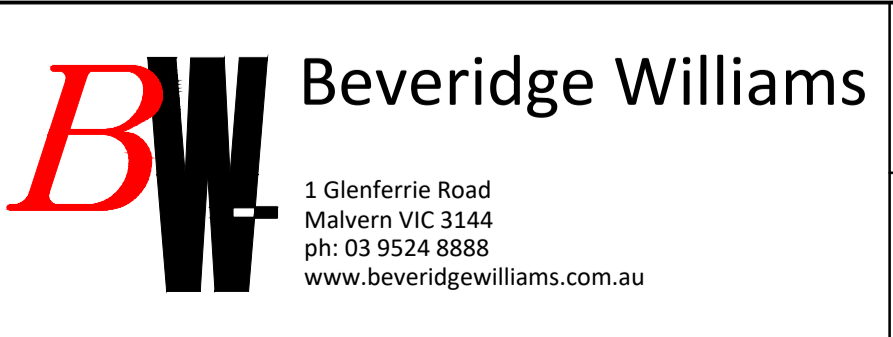
WARNING
BEWARE OF UNDERGROUND SERVICES
 The locations of underground services are approximate only and their exact position should be proven on site.
 No guarantee is given that all existing services are shown. Locate all underground services before commencement of works.
DIAL 1100 BEFORE YOU DIG
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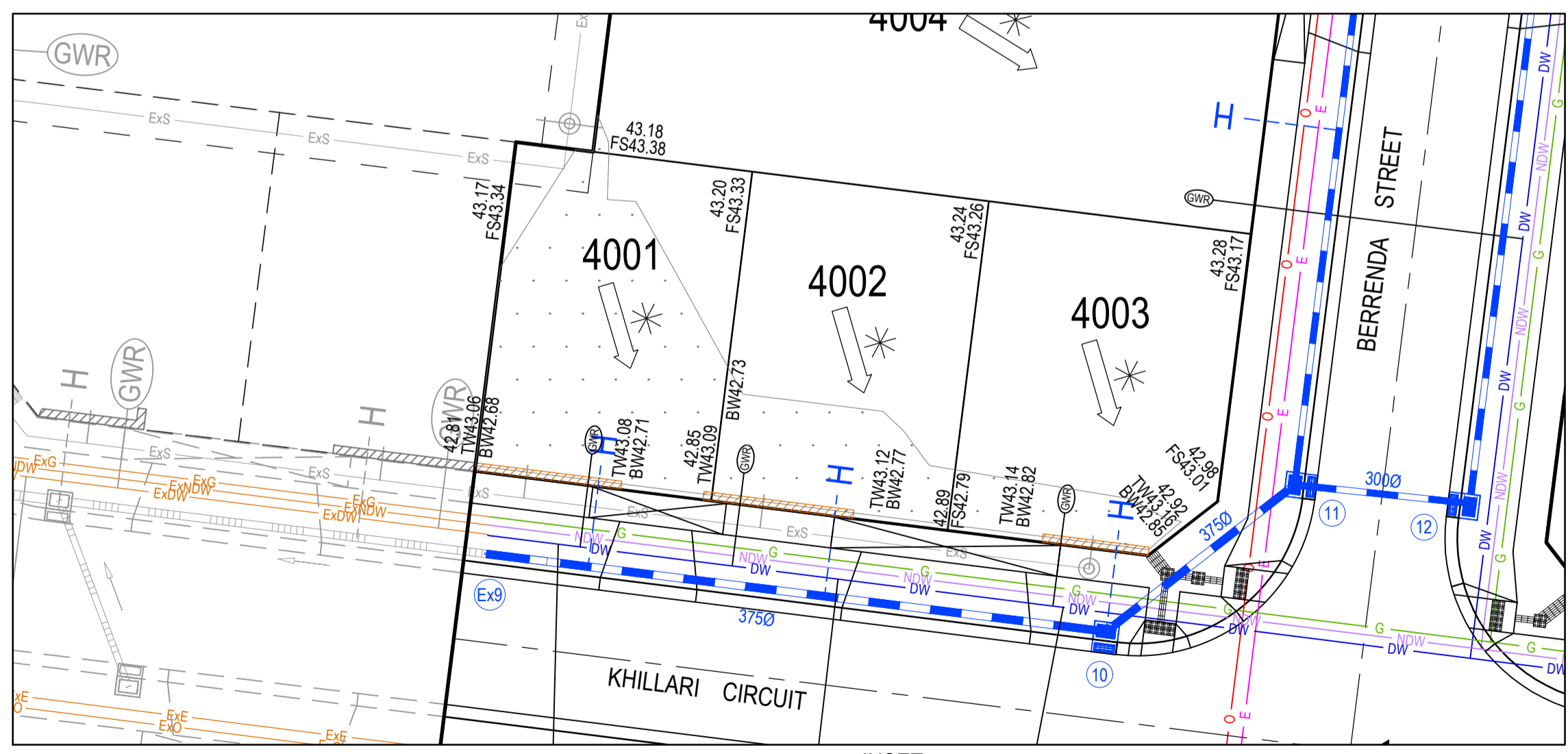
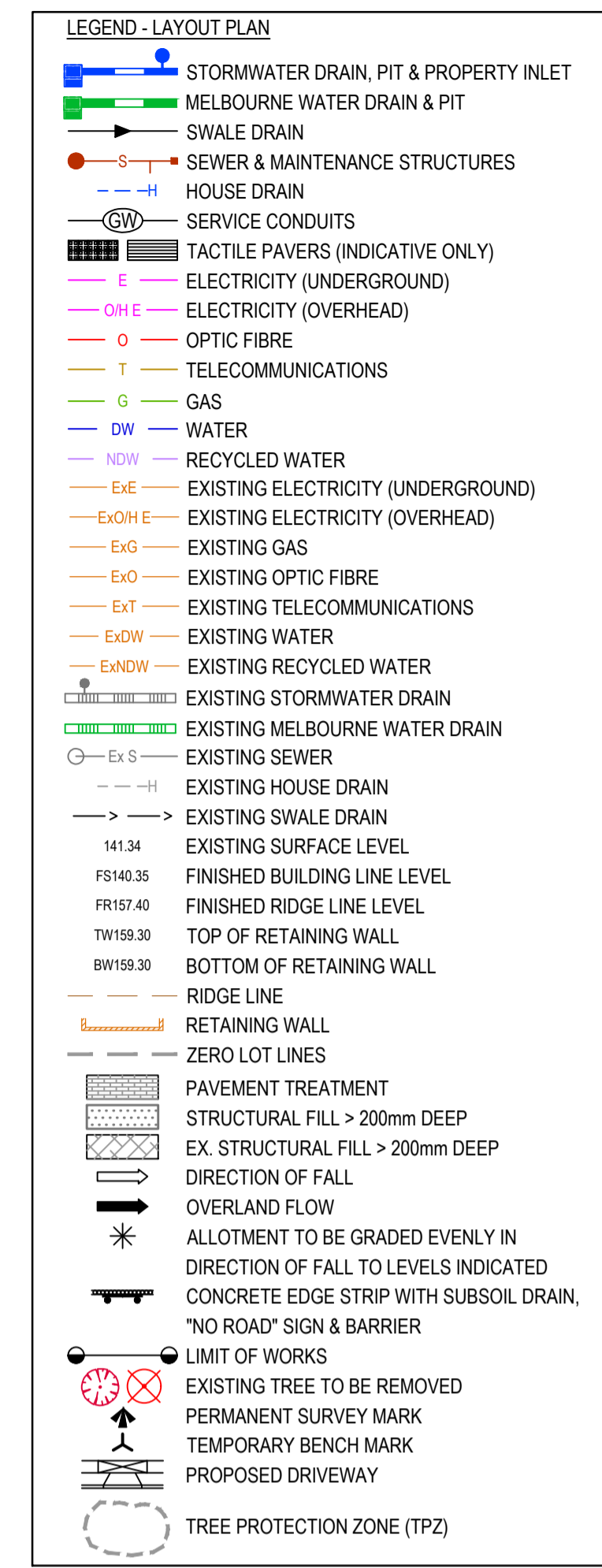
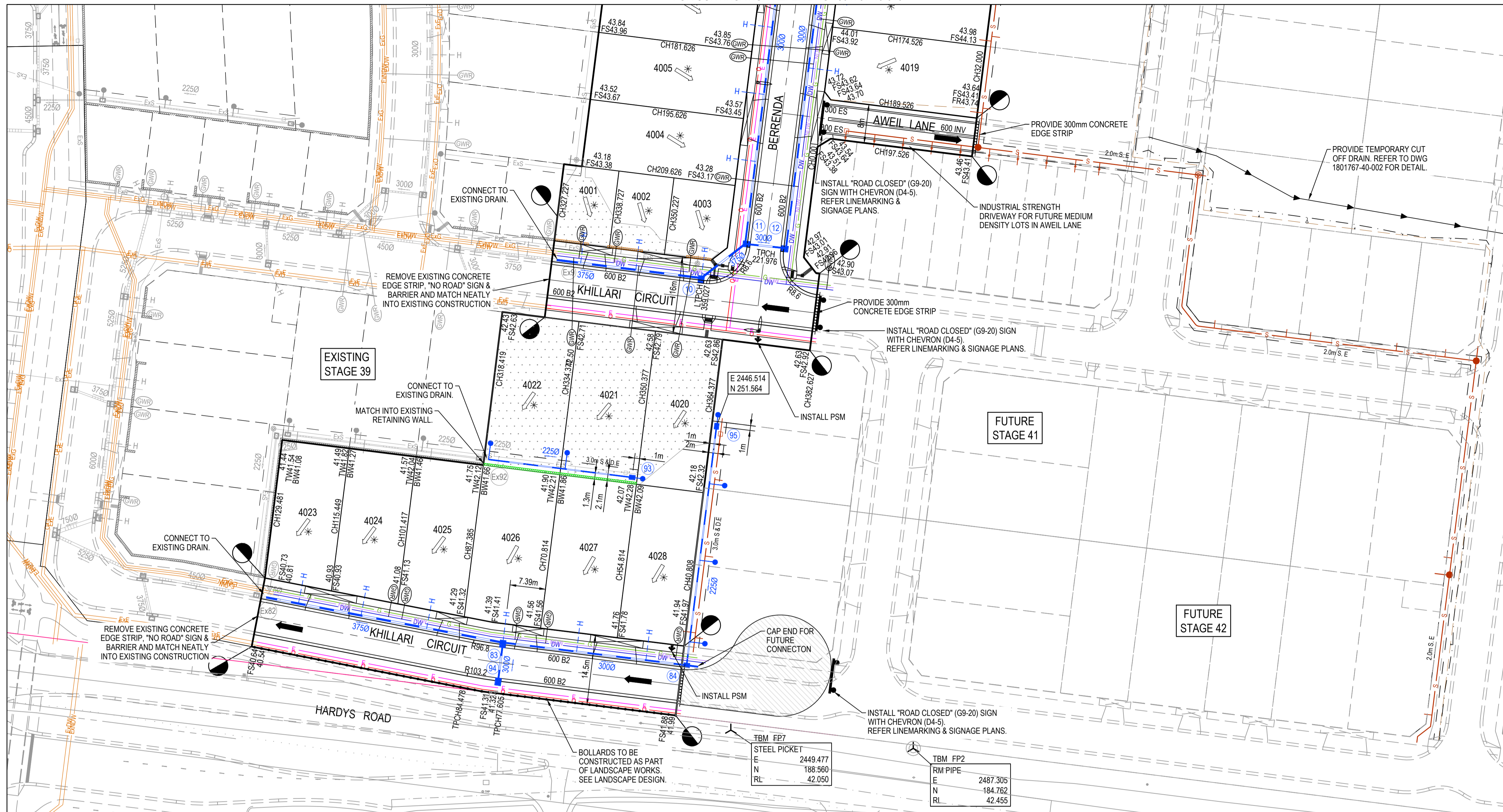


Project Details: MERIDIAN CENTRAL ESTATE STAGE 40 CITY OF CASEY
 Drawing Title: LAYOUT PLAN (SHEET 1 OF 2)

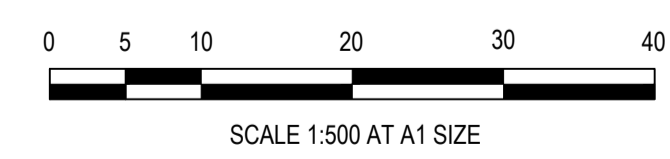
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 Project Ref: 1801767 Stage No: 40 Drawing No: 010 Rev: A

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FOR CONTINUATION REFER DRG 1801767-40-010



WARNING
BEWARE OF UNDERGROUND SERVICES
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DIAL 1100 BEFORE YOU DIG
 www.1100.com.au

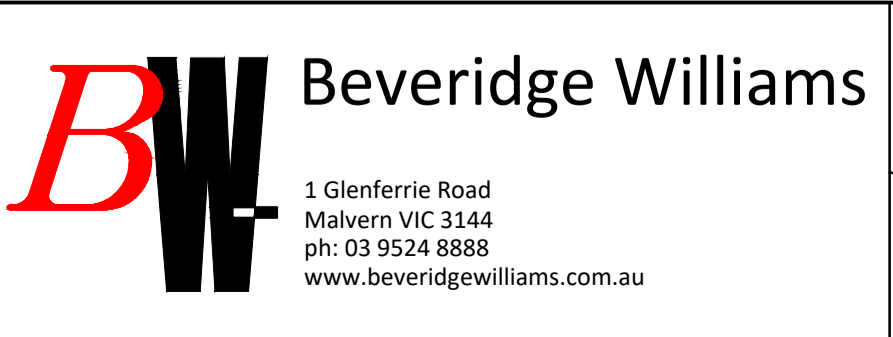


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 Date 18.11.2022
 PS Number PS904418Y



Project Details
MERIDIAN CENTRAL ESTATE
 STAGE 40
 CITY OF CASEY

Drawing Title
LAYOUT PLAN
 (SHEET 2 OF 2)

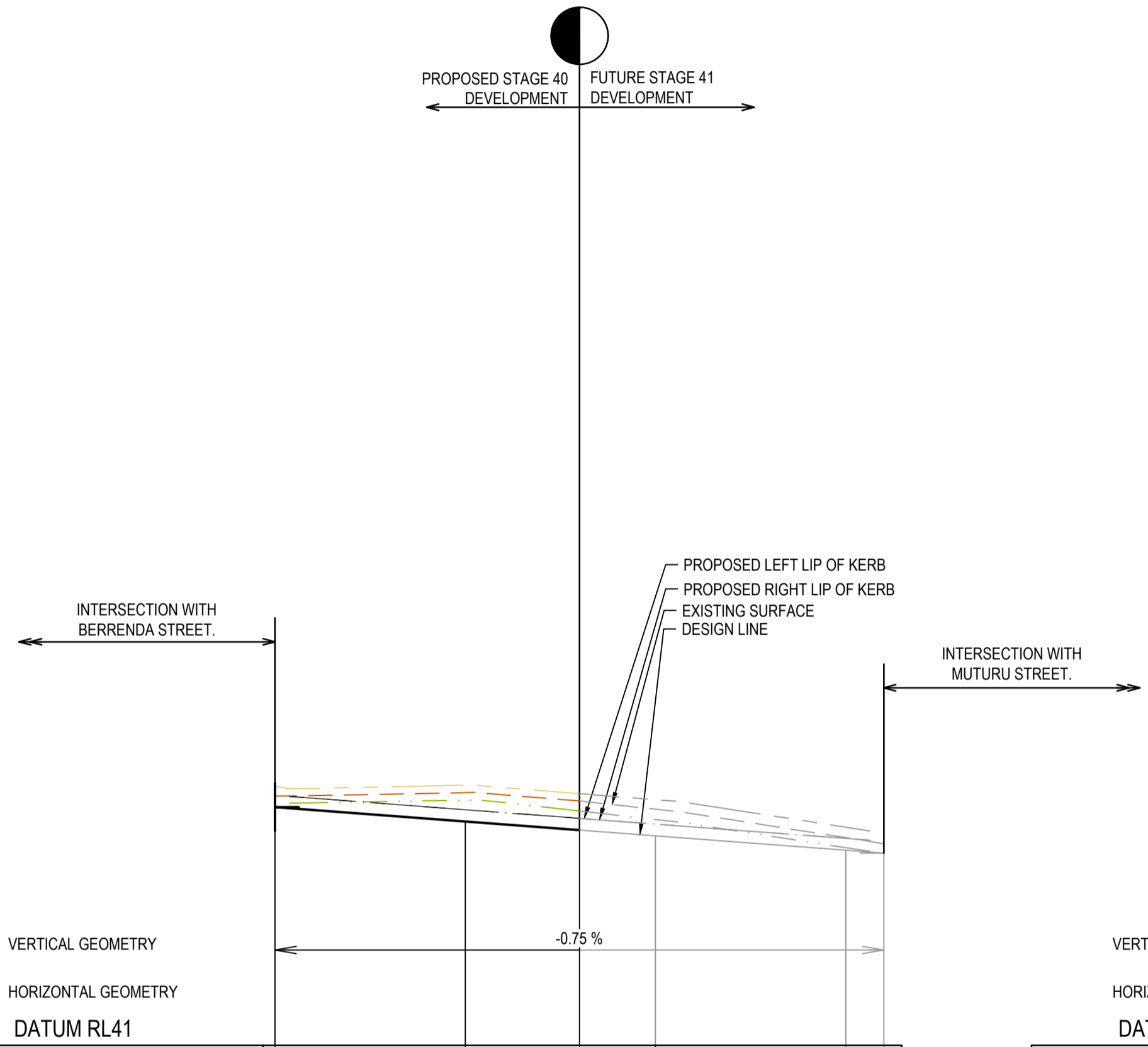
Sheet 05 of 17

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Project Ref Stage No Drawing No Rev
1801767 40 011 A

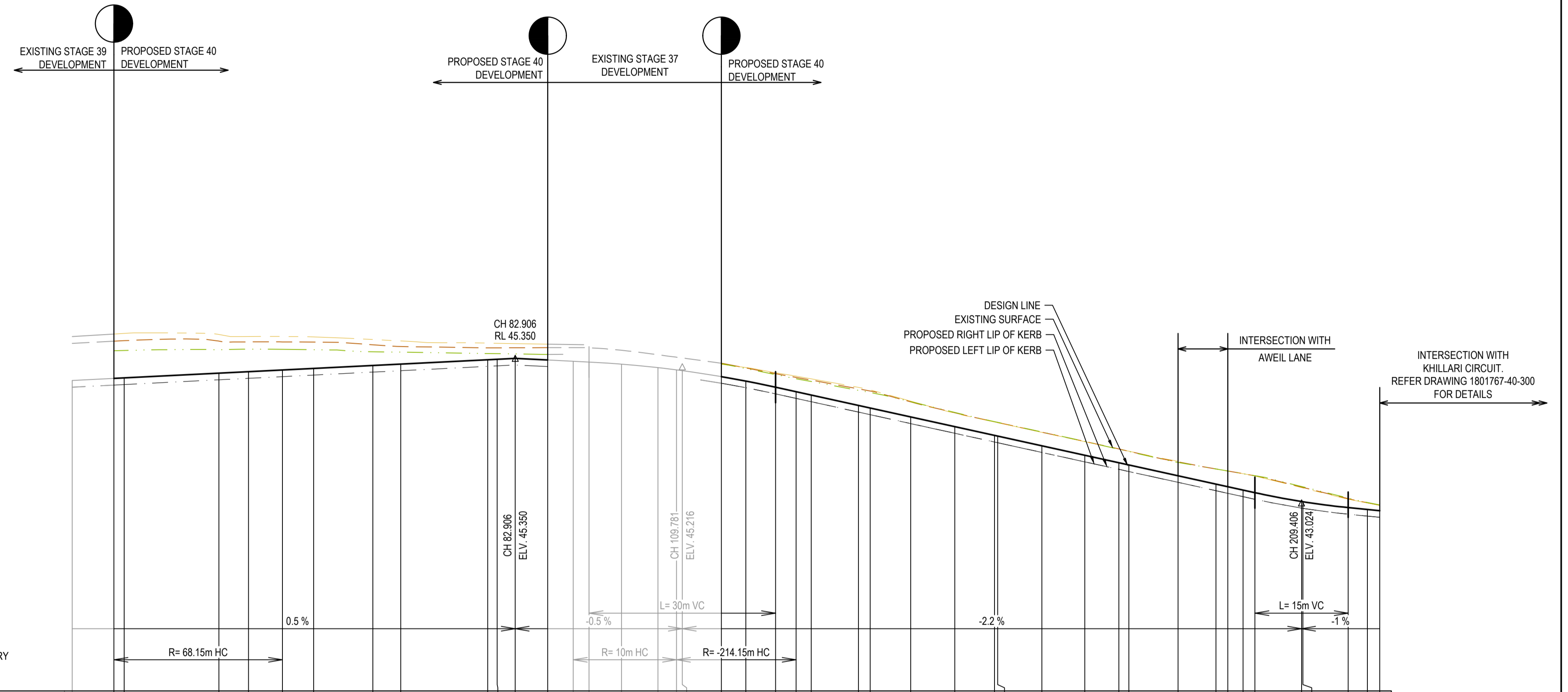
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LEGEND	
	EXISTING SURFACE
	DESIGN LINE
	FUTURE DESIGN LINE
	EXISTING SURFACE AT RIGHT BOUNDARY
	RIGHT LIP OF KERB
	EXISTING SURFACE AT LEFT BOUNDARY
	LEFT LIP OF KERB



	0.000	20.000	32.000	40.000	60.000	64.000
DESIGN CENTRELINE	43.501	43.350	43.260	43.195	43.049	43.018
RIGHT LIP OF KERB		43.474	43.383	43.323	43.172	43.075
EXISTING SURFACE AT RIGHT BOUNDARY		43.575	43.460	43.370	43.075	
LEFT LIP OF KERB		43.474	43.383	43.323	43.172	43.075
EXISTING SURFACE AT LEFT BOUNDARY	43.722	43.732	43.643	43.579	43.290	43.113
EXISTING SURFACE	43.617	43.653	43.566	43.480	43.181	43.113
CHAINAGE	0.000	20.000	32.000	40.000	60.000	64.000

AWEIL LANE LONGITUDINAL SECTION

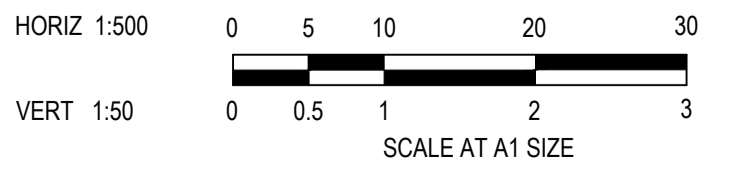


	11.628	18.351	20.000	35.229	40.000	45.459	50.486	60.000	64.486	78.486	80.000	82.906	88.121	92.241	94.781	100.000	105.863	108.848	109.781	116.062	120.000	124.781	128.094	130.526	138.126	140.000	146.526	153.626	160.000	160.526	167.626	174.526	180.000	181.626	188.526	195.626	197.526	200.000	201.906	208.406	208.626	216.906	220.000	221.976					
DESIGN CENTRELINE	44.887	45.028	45.036	45.112	45.136	45.163	45.189	45.236	45.258	45.328	45.336	45.350	45.324	45.304	45.291	45.257	45.201	45.165	45.152	45.056	44.985	44.886	44.813	44.760	44.653	44.502	44.451	44.406	44.251	44.100	44.005	43.993	43.837	43.792	43.685	43.671	43.635	43.462	43.327	43.286	43.231	43.189	43.043	42.941	42.843	42.812	42.889		
RIGHT LIP OF KERB		45.472	45.477	45.489	45.499	45.496	45.490	45.457	45.450	45.428	45.428	45.422	45.218							44.950	44.878	44.779	44.686	44.603	44.523	44.445	44.301	44.145	44.005	43.932	43.889	43.851	43.675	43.570	43.537	43.479	43.426	43.383	43.286	43.231	43.189	43.043	42.941	42.843	42.812	42.792			
EXISTING SURFACE AT RIGHT BOUNDARY		45.472	45.477	45.489	45.499	45.496	45.490	45.457	45.450	45.428	45.428	45.422	45.218							44.950	44.878	44.779	44.686	44.603	44.523	44.445	44.301	44.145	44.005	43.932	43.889	43.851	43.675	43.570	43.537	43.479	43.426	43.383	43.286	43.231	43.189	43.043	42.941	42.843	42.812	42.792			
LEFT LIP OF KERB		44.887	44.921	44.929	45.005	45.029	45.057	45.082	45.129	45.152	45.222	45.229	45.218							44.950	44.878	44.779	44.686	44.603	44.523	44.445	44.301	44.145	44.005	43.932	43.889	43.851	43.675	43.570	43.537	43.479	43.426	43.383	43.286	43.231	43.189	43.043	42.941	42.843	42.812	42.792			
EXISTING SURFACE AT LEFT BOUNDARY	45.701	45.741	45.752	45.734	45.703	45.702	45.696	45.653	45.631	45.596	45.594	45.589	45.581	45.574						45.596	45.520	45.420	45.329	45.243	45.162	45.080	44.934	44.778	44.632	44.515	44.431	44.382	44.357	44.163	44.055	43.993	43.929	43.872	43.826	43.783	43.740	43.697	43.654	43.511	43.403	43.303	43.203	43.103	43.003
EXISTING SURFACE	45.590	45.628	45.636	45.628	45.616	45.615	45.612	45.569	45.541	45.519	45.520	45.521	45.523	45.524	45.521	45.480	45.409	45.369	45.356	45.272	45.197	45.103	45.003	45.000	44.884	44.824	44.650	44.498	44.374	44.318	44.265	44.163	44.013	43.892	43.855	43.783	43.740	43.697	43.654	43.511	43.403	43.303	43.203	43.103	43.003				
CHAINAGE	11.628	18.351	20.000	35.229	40.000	45.459	50.486	60.000	64.486	78.486	80.000	82.906	88.121	92.241	94.781	100.000	105.863	108.848	109.781	116.062	120.000	124.781	128.094	130.526	138.126	140.000	146.526	153.626	160.000	160.526	167.626	174.526	180.000	181.626	188.526	195.626	197.526	200.000	201.906	208.406	208.626	216.906	220.000	221.976					

BERRENDIA STREET LONGITUDINAL SECTION

ISSUED FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.
A	ISSUED FOR CONSTRUCTION	21.12.22	C.D.	M.F.					



Designed Date: C.DAWSON 28.09.2022
 Drawn: L.SUTHERLAND
 Approved Date: M.FELICIANO 18.11.2022
 PS Number: PS904418Y



Project Details: MERIDIAN CENTRAL ESTATE STAGE 40 CITY OF CASEY
 Drawing Title: ROAD LONGITUDINAL SECTIONS AWEIL LANE AND BERRENDIA STREET

Sheet 06 of 17
 Scale: 1:500 H 1:50 V @ A1
 Project Ref: 1801767 Stage No: 40 Drawing No: 100 Rev: A

K:\Jobs Data\1801767 - Meridian_Eng\Stage 40\Drawings\1801767-40-100-RLS.dwg

LEGEND	
	EXISTING SURFACE
	DESIGN LINE
	FUTURE DESIGN LINE
	EXISTING SURFACE AT RIGHT BOUNDARY
	RIGHT LIP OF KERB
	EXISTING SURFACE AT LEFT BOUNDARY
	LEFT LIP OF KERB



DESIGN LINE
EXISTING SURFACE
PROPOSED RIGHT LIP OF KERB
PROPOSED LEFT LIP OF KERB

INTERSECTION WITH
BERRENDA STREET

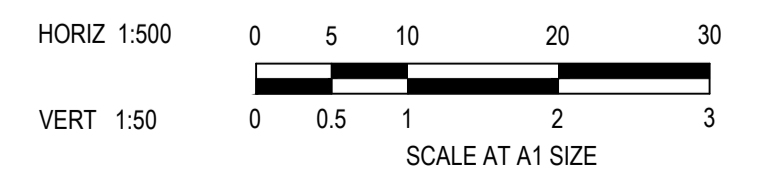
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-1.4%	R=100m HC		L=30m VC	
2.9%	R=10m HC		L=30m VC	
0.5%				
0.5%				

DESIGN CENTRELINE	RIGHT LIP OF KERB	EXISTING SURFACE AT RIGHT BOUNDARY	LEFT LIP OF KERB	EXISTING SURFACE AT LEFT BOUNDARY	EXISTING SURFACE	CHAINAGE
42.092					42.387	0.000
42.049					42.372	8.418
42.021		42.271		42.334	42.322	14.159
41.992		42.206		42.241	42.245	20.000
41.945		42.097		42.109	42.102	29.352
41.890		41.994		42.023	41.997	36.852
41.848		41.951		41.989	41.958	40.000
41.802	41.741	41.940	41.741	41.979	41.949	40.808
41.756	41.696	41.892	41.696	41.939	41.909	44.352
41.656	41.549	41.759	41.549	41.794	41.753	54.814
41.583	41.477	41.698	41.477	41.704	41.669	60.000
41.432	41.325	41.565	41.325	41.509	41.539	70.814
41.337	41.230	41.447	41.230	41.402	41.421	77.605
41.303	41.197	41.409	41.197	41.341	41.376	80.000
41.241	41.134	41.338	41.134	41.237	41.288	84.478
41.200	41.093	41.289	41.093	41.180	41.231	87.385
41.023	40.917	41.102	40.917	40.938	41.019	100.000
41.003	40.897	41.084	40.897	40.911	40.992	101.417
40.807	40.700	40.933	40.700	40.693	40.806	115.449
40.743	40.637	40.890	40.637	40.643	40.755	120.000
40.610	40.504	40.814	40.504	40.542	40.606	129.481
40.463	40.357	40.720	40.357	40.370	40.444	140.000
40.419	40.313	40.691	40.313	40.332	40.416	143.126
40.323	40.217	40.614	40.217	40.277	40.345	149.999
40.196	40.163	40.570	40.163	40.262	40.222	159.055
40.116	40.116	40.568	40.116	40.248	40.211	160.000
40.048	40.048	40.566	40.048	40.229	40.270	164.798
39.961	39.961	40.564	39.961	40.452	40.495	174.626
39.962	39.962	40.658	39.962	40.544	40.598	179.798
40.234	40.234	41.000	40.234	40.548	40.602	180.000
40.341	40.341	41.143	40.341	40.881	40.925	194.798
40.492	40.492	41.143	40.492	41.042	41.084	200.000
41.072	41.072	41.731	41.072	41.615	41.667	220.000
41.377	41.377	42.000	41.377	41.893	41.944	230.519
41.652	41.652	42.000	41.652	42.410	42.180	240.000
41.739	41.739	42.000	41.739	42.436	42.230	242.977
41.828	41.828	42.000	41.828	42.459	42.254	246.227
42.083	42.083	42.102	42.083	42.504	42.297	257.977
42.116	42.116	42.009	42.116	42.513	42.306	260.000
42.246	42.246	42.188	42.246	42.583	42.375	272.977
42.283	42.283	42.249	42.283	42.631	42.425	280.000
42.383	42.383	42.275	42.383	42.691	42.498	300.000
42.463	42.463	42.377	42.463	42.782	42.605	316.149
42.519	42.519	42.461	42.519	42.812	42.634	327.227
42.555	42.555	42.498	42.555	42.833	42.656	334.377
42.571	42.571	42.521	42.571	42.851	42.674	338.977
42.583	42.583	42.528	42.583	42.857	42.680	340.000
42.634	42.634	42.581	42.634	42.882	42.727	350.977
42.658	42.658	42.582	42.658	42.885	42.726	353.977
42.678	42.678	42.636	42.678	42.921	42.759	359.000
42.683	42.683	42.637	42.683	42.921	42.771	360.000

KHILLARI CIRCUIT LONGITUDINAL SECTION

ISSUED FOR
CONSTRUCTION

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REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION
A	ISSUED FOR CONSTRUCTION	21.12.22	C.D.	M.F.		



Designed Date: C.DAWSON 28.09.2022
Drawn: L.SUTHERLAND
Approved Date: M.FELICIANO 18.11.2022
PS Number: PS904418Y

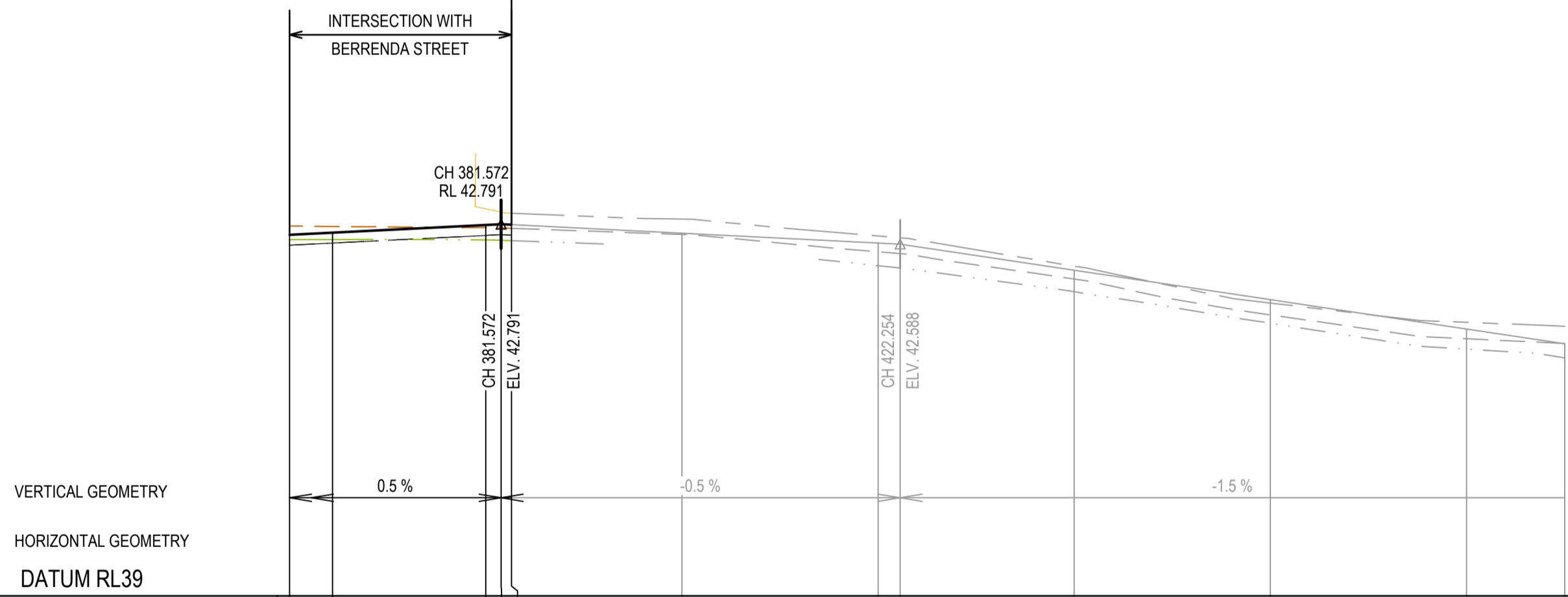
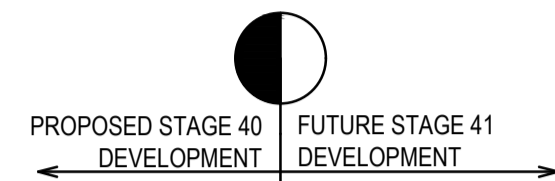


Project Details: MERIDIAN CENTRAL ESTATE STAGE 40 CITY OF CASEY
Drawing Title: ROAD LONGITUDINAL SECTIONS KHILLARI CIRCUIT (SHEET 1 OF 2)

Sheet 07 of 17
Scale: 1:500 H 1:50 V @ A1
Project Ref: 1801767 Stage No: 40 Drawing No: 101 Rev: A

K:\Jobs Data\1801767 - Meridian_E\Stage 40\Drawings\1801767-40-100-RLS.dwg

LEGEND	
	EXISTING SURFACE
	DESIGN LINE
	FUTURE DESIGN LINE
	EXISTING SURFACE AT RIGHT BOUNDARY
	RIGHT LIP OF KERB
	EXISTING SURFACE AT LEFT BOUNDARY
	LEFT LIP OF KERB



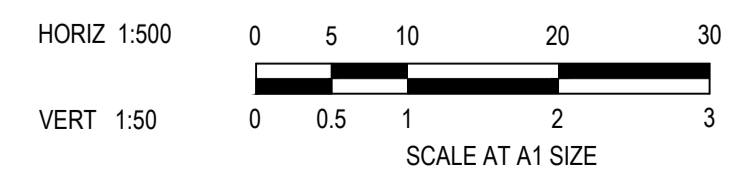
	360.000	364.377	380.000	381.572	382.627	400.000	420.000	422.254	440.000	460.000	480.000	490.000
DESIGN CENTRELINE	42.683	42.705	42.783	42.791	42.786	42.699	42.599	42.588	42.322	42.022	41.722	41.572
RIGHT LIP OF KERB	42.577	42.599	42.677	42.679	42.679							
EXISTING SURFACE AT RIGHT BOUNDARY	42.631	42.634	42.630	42.627	42.623		42.368	42.344	42.102	41.781	41.517	41.428
LEFT LIP OF KERB	42.577	42.599	42.677	42.685	42.679							
EXISTING SURFACE AT LEFT BOUNDARY			42.848	42.915	42.903	42.843	42.671	42.653	42.362	41.986	41.790	41.749
EXISTING SURFACE	42.771	42.768	42.756	42.753	42.749	42.686	42.510	42.491	42.232	41.866	41.622	41.574
CHAINAGE	360.000	364.377	380.000	381.572	382.627	400.000	420.000	422.254	440.000	460.000	480.000	490.000

KHILLARI CIRCUIT LONGITUDINAL SECTION (CONTINUED)

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REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.
A	ISSUED FOR CONSTRUCTION	21.12.22	C.D.	M.F.					





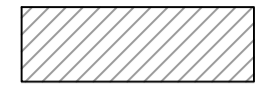
Designed Date: C.DAWSON 28.09.2022
Drawn: L.SUTHERLAND
Approved Date: M.FELICIANO 18.11.2022
PS Number: PS904418Y

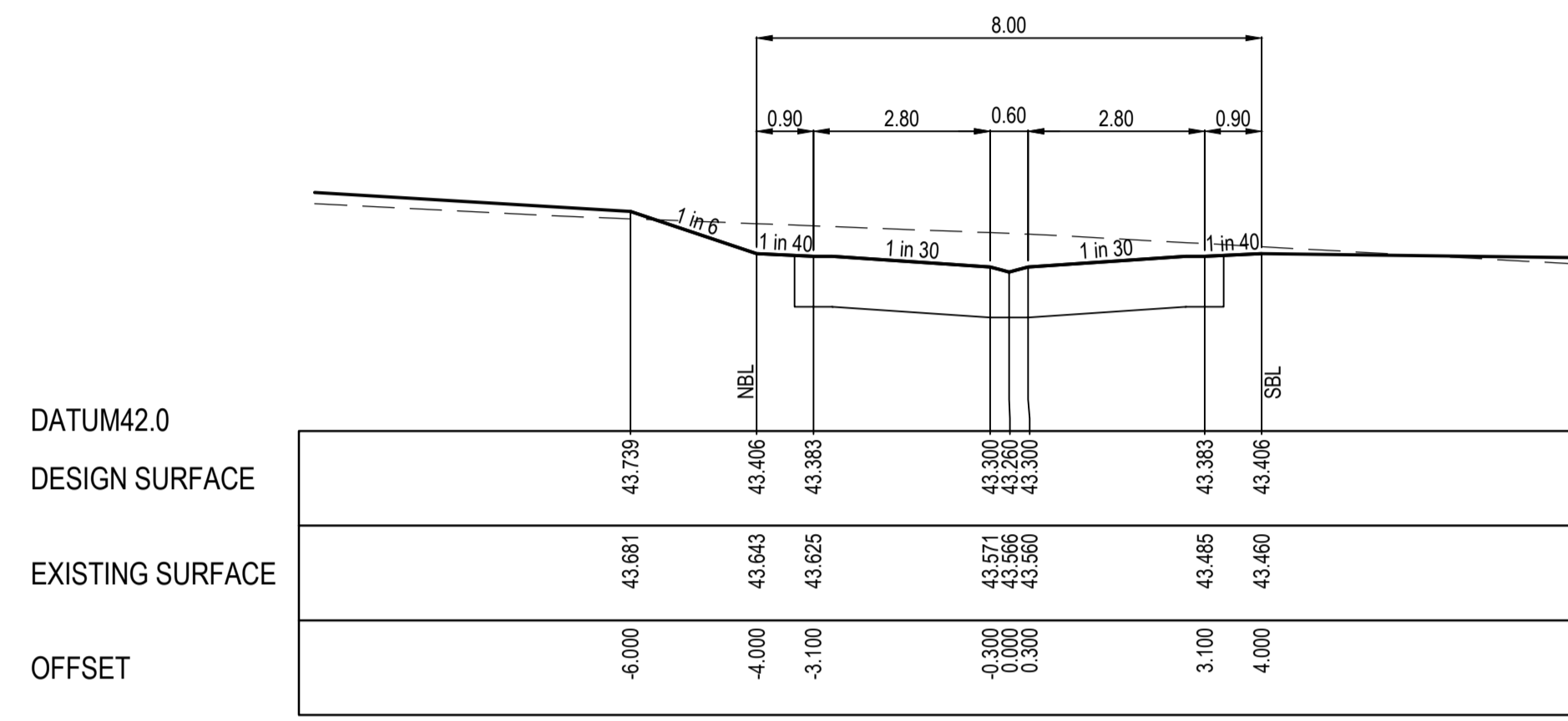


Project Details: MERIDIAN CENTRAL ESTATE STAGE 40 CITY OF CASEY
Drawing Title: ROAD LONGITUDINAL SECTIONS KHILLARI CIRCUIT (SHEET 2 OF 2)

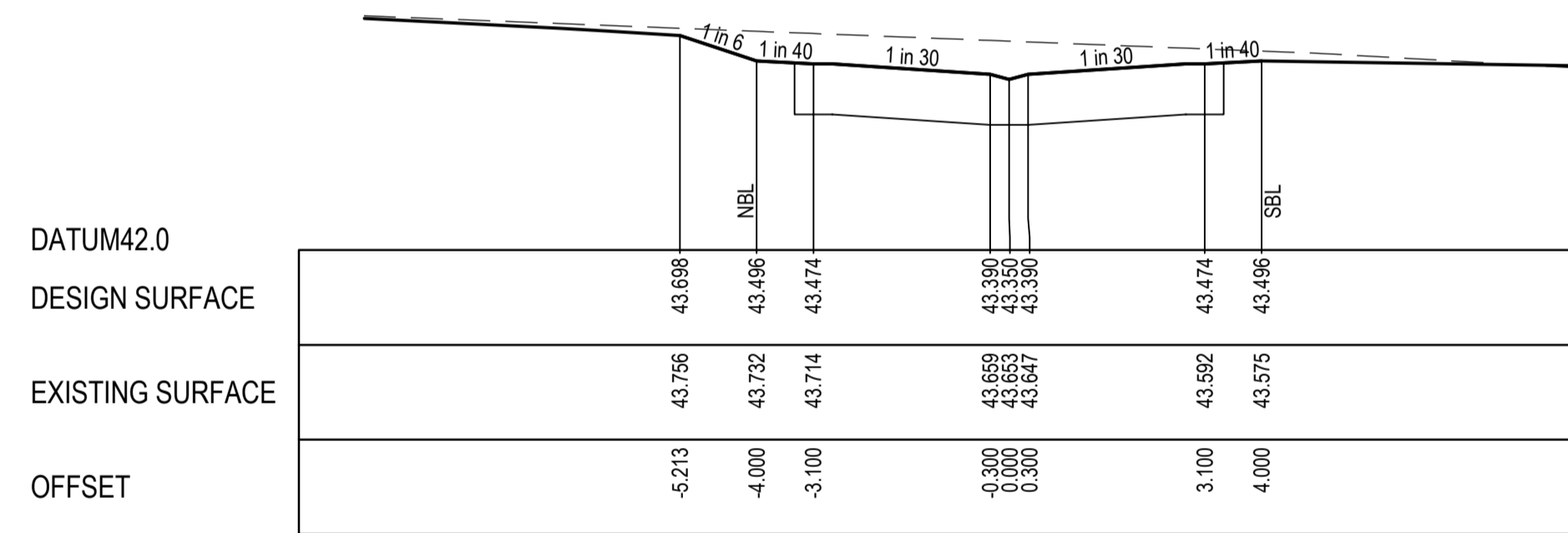
Sheet 08 of 17	
Scale: 1:500 H 1:50 V @ A1	
Project Ref: 1801767	Stage No: 40
Drawing No: 102	Rev: A

STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE NATURAL SURFACE. REFER GEOTECH REPORT FOR SPECIFICATION

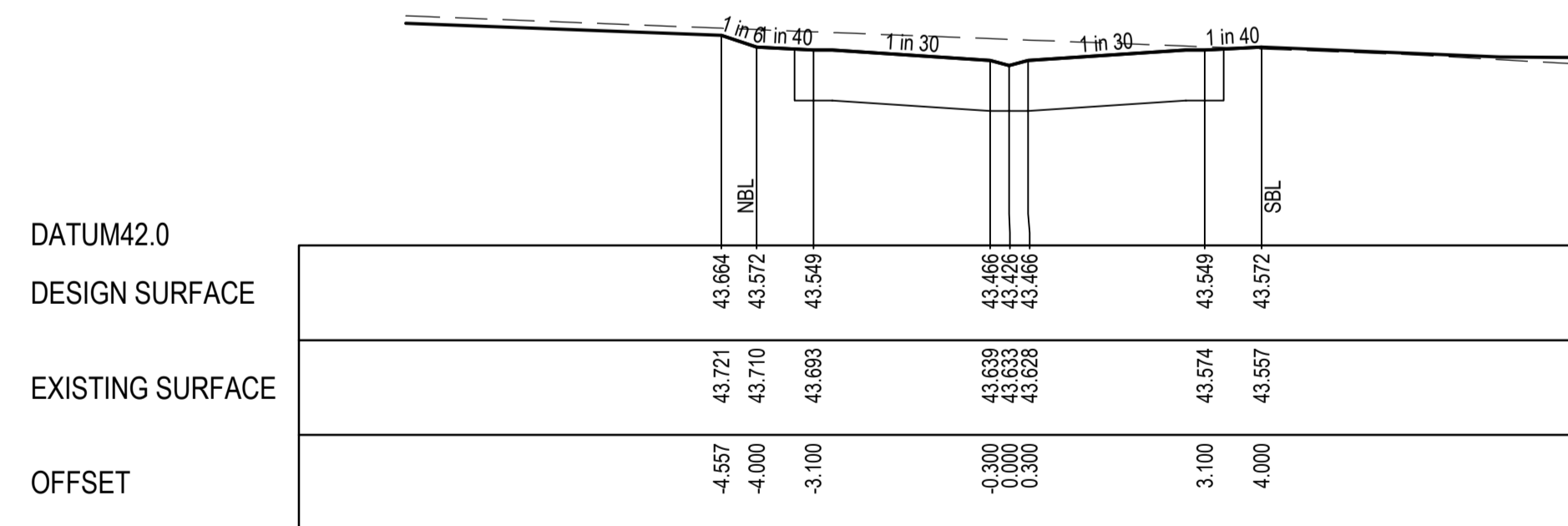
LEGEND	
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	DESIGN SURFACE
	STRUCTURAL FILL



CH 32.000

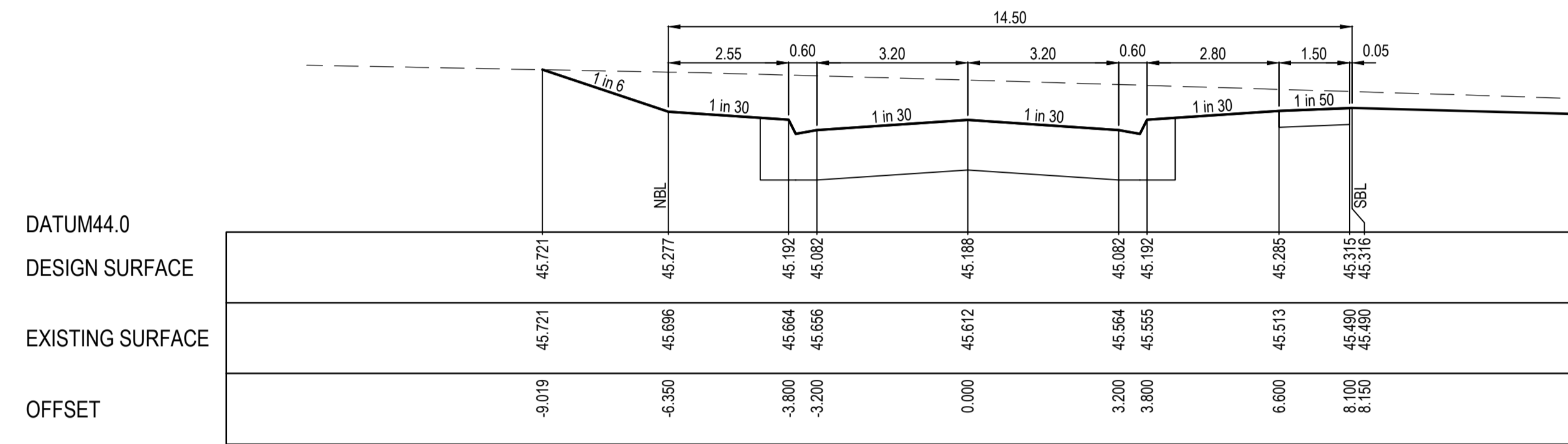


CH 20.000

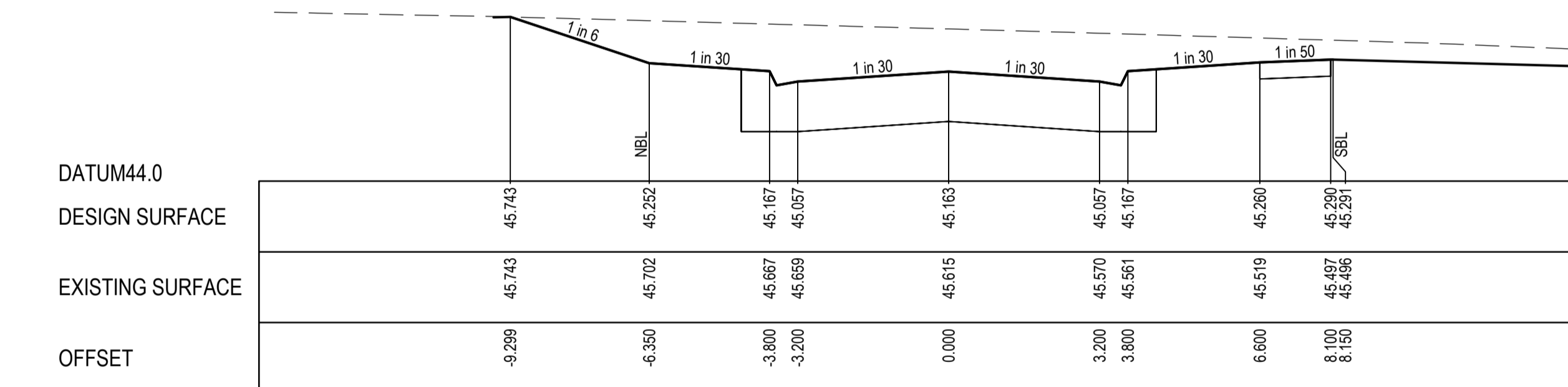


CH 10.000

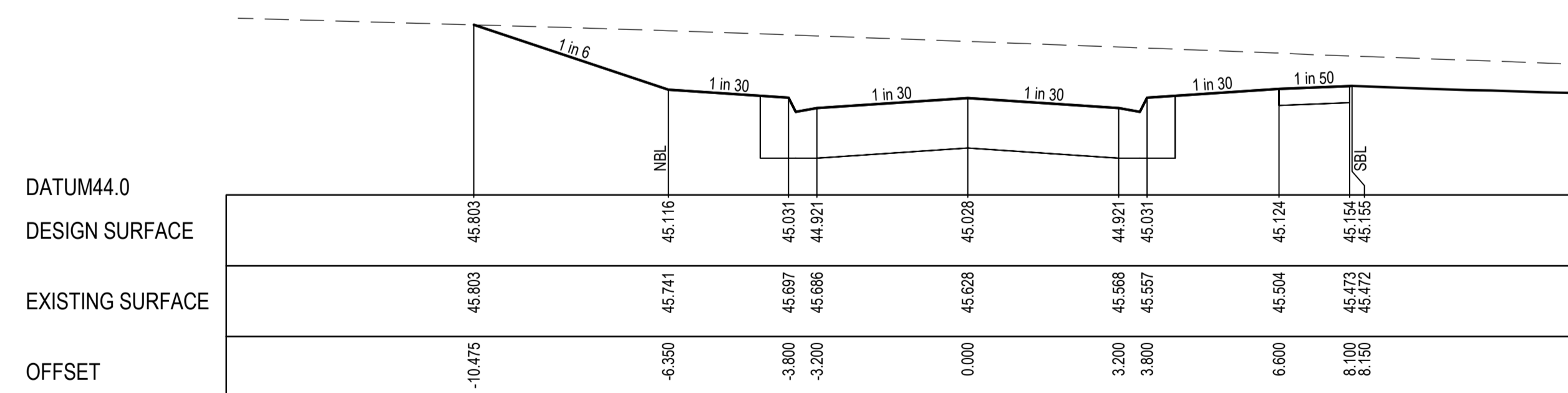
AWEIL LANE CROSS SECTIONS



CH 50.486



TPCH 45.459

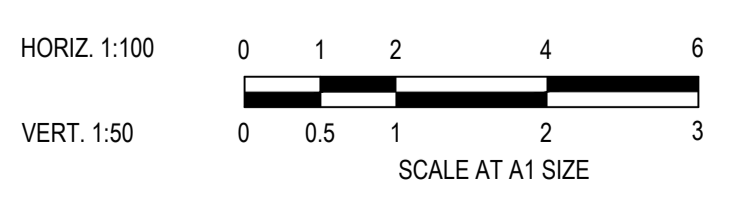


TPCH 18.351

BERRENDA STREET CROSS SECTIONS

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REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.
A	ISSUED FOR CONSTRUCTION	21.12.22	C.D.	M.F.					



Designed Date: C.DAWSON 28.09.2022
Drawn: L.SUTHERLAND
Approved Date: M.FELICIANO 18.11.2022
PS Number: PS904418Y



Project Details: MERIDIAN CENTRAL ESTATE
STAGE 40
CITY OF CASEY
Drawing Title: ROAD CROSS SECTIONS
AWEIL LANE AND
BERRENDA STREET

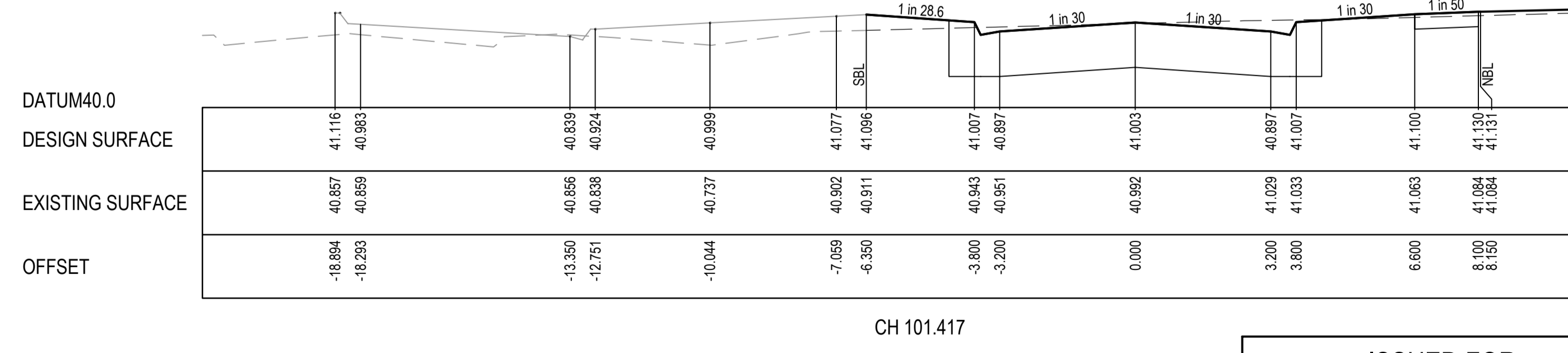
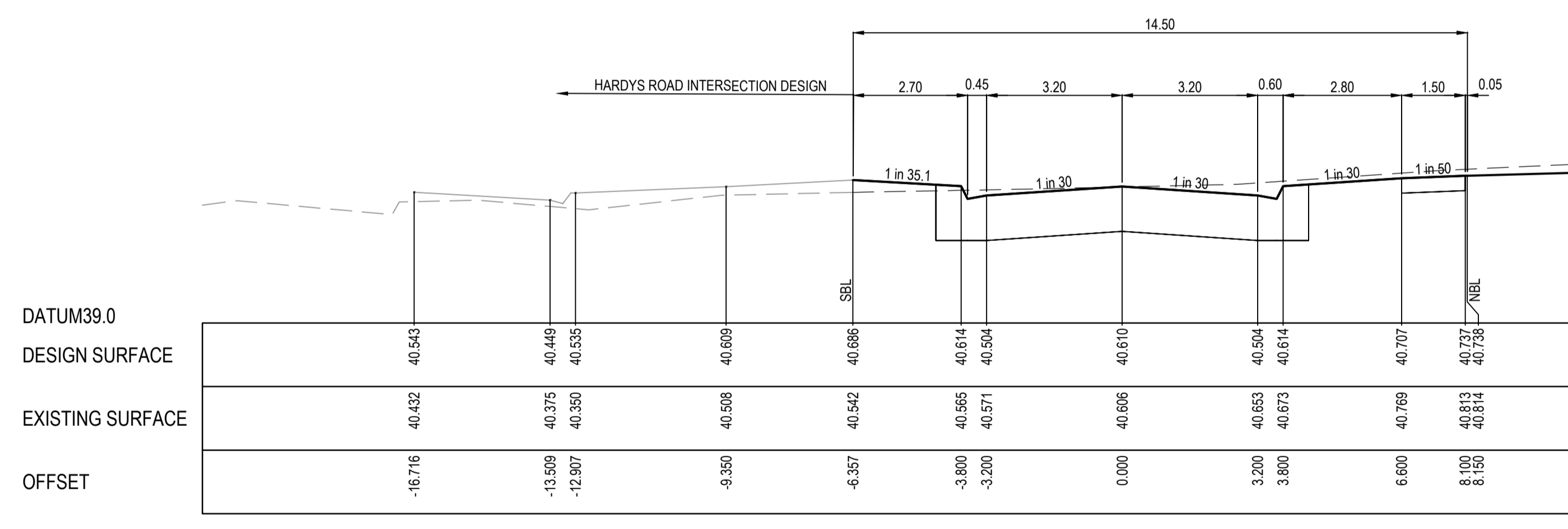
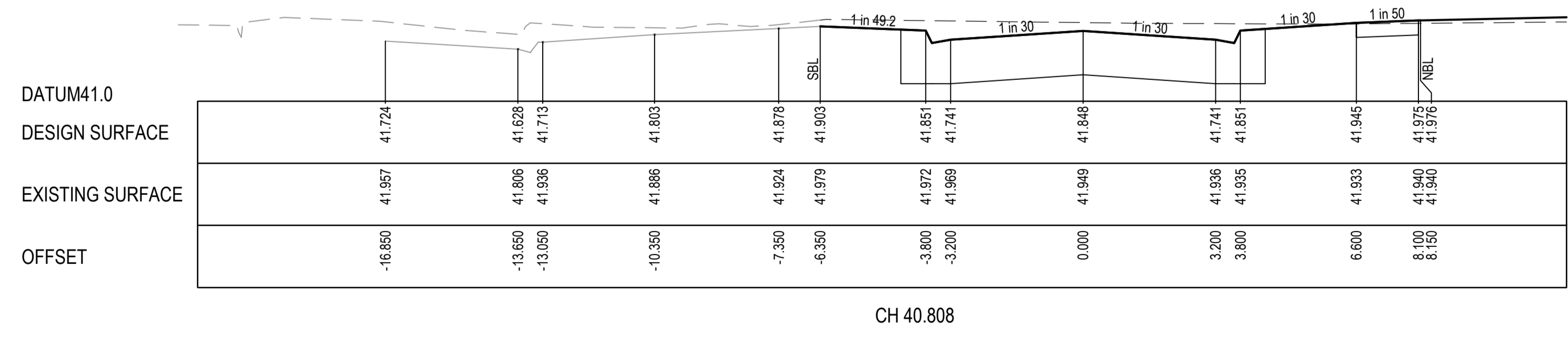
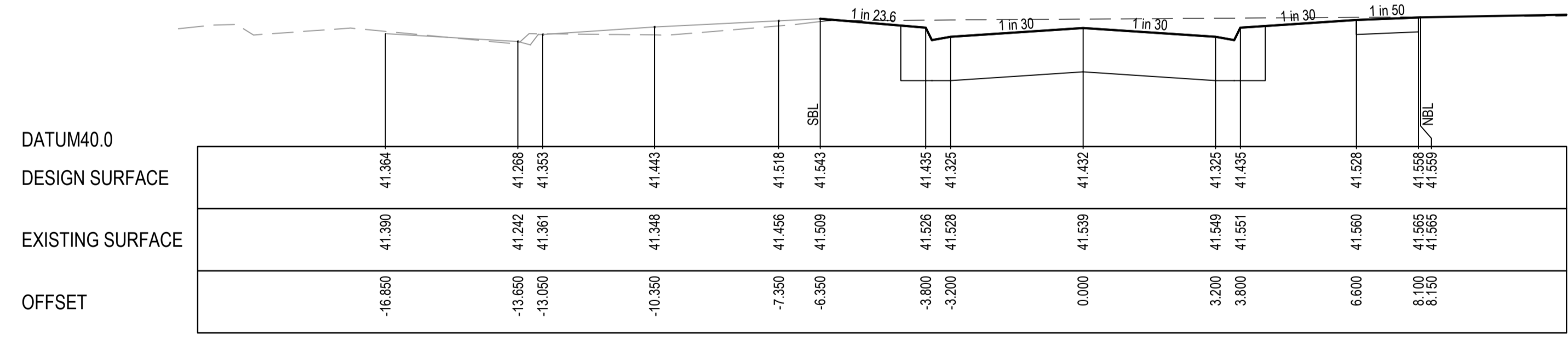
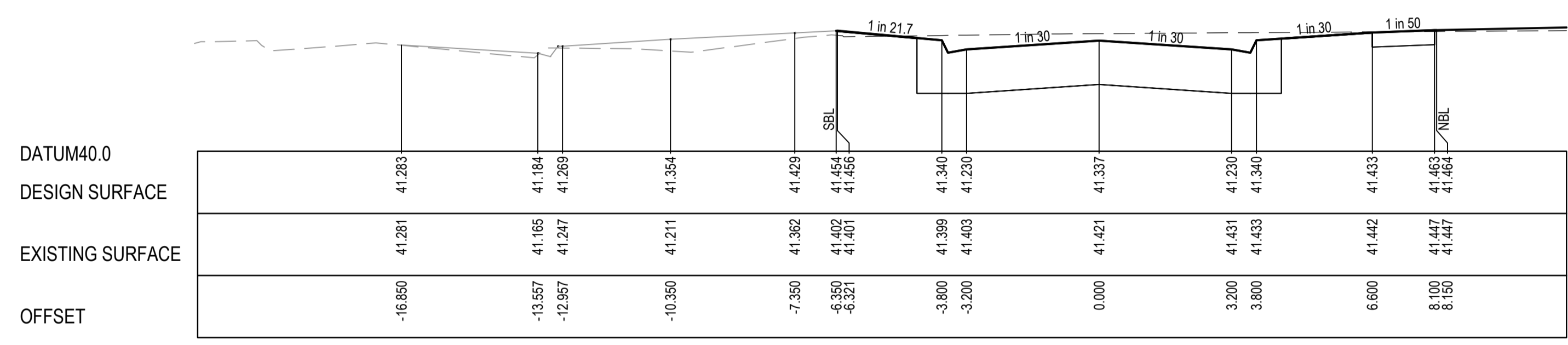
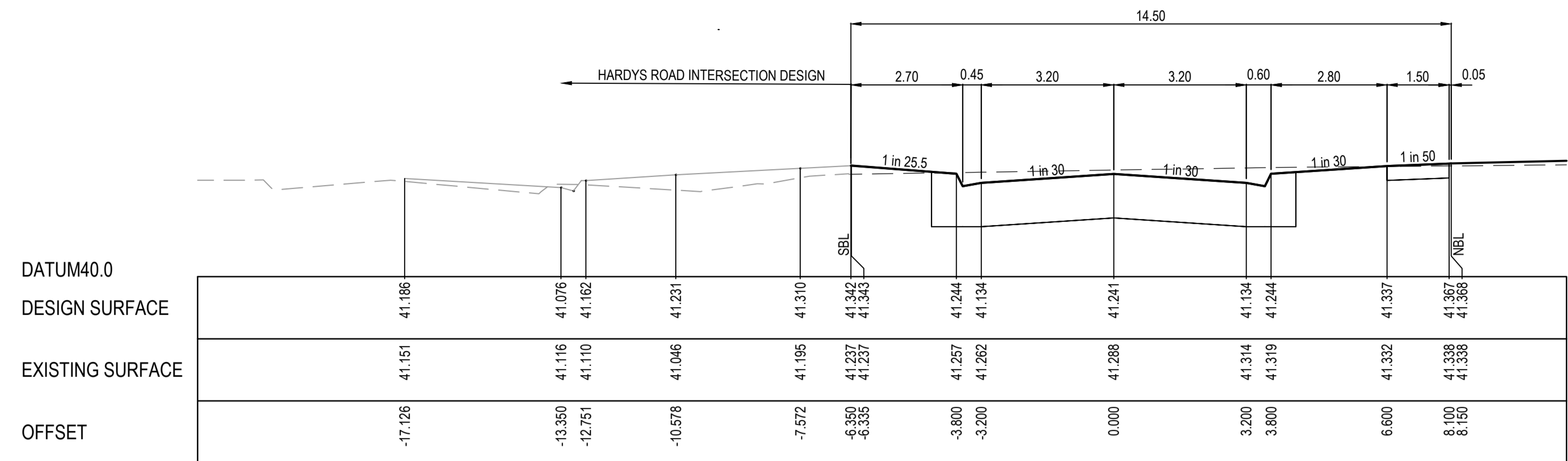
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Scale: 1:100 H 1:50 V @ A1			
Project Ref	Stage No	Drawing No	Rev
1801767	40	200	A

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STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE NATURAL SURFACE. REFER GEOTECH REPORT FOR SPECIFICATION

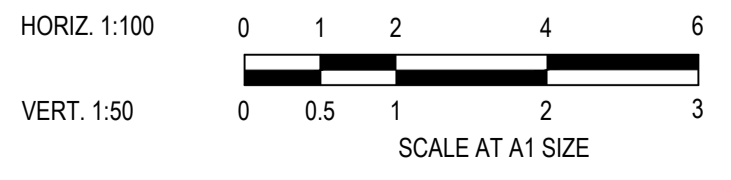
LEGEND

- EXISTING SURFACE
- DESIGN SURFACE
- ▨ STRUCTURAL FILL



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A	ISSUED FOR CONSTRUCTION	21.12.22	C.D.	M.F.																	
REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.												



Designed Date: C.DAWSON 28.09.2022
Drawn: L.SUTHERLAND
Approved Date: M.FELICIANO 18.11.2022
PS Number: PS904418Y



Project Details: MERIDIAN CENTRAL ESTATE
STAGE 40
CITY OF CASEY
Drawing Title: ROAD CROSS SECTIONS
KHILLARI CIRCUIT
(SHEET 1 OF 2)

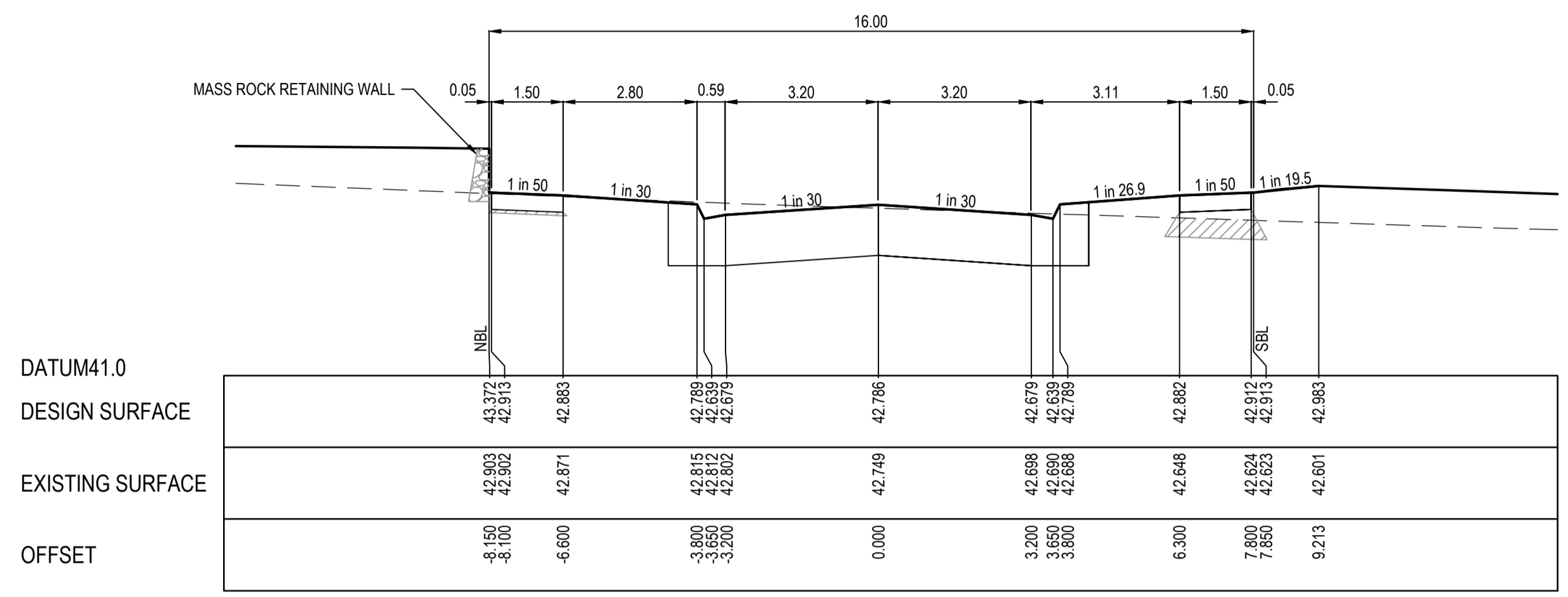
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Project Ref 1801767	Stage No 40
Drawing No 202	Rev A

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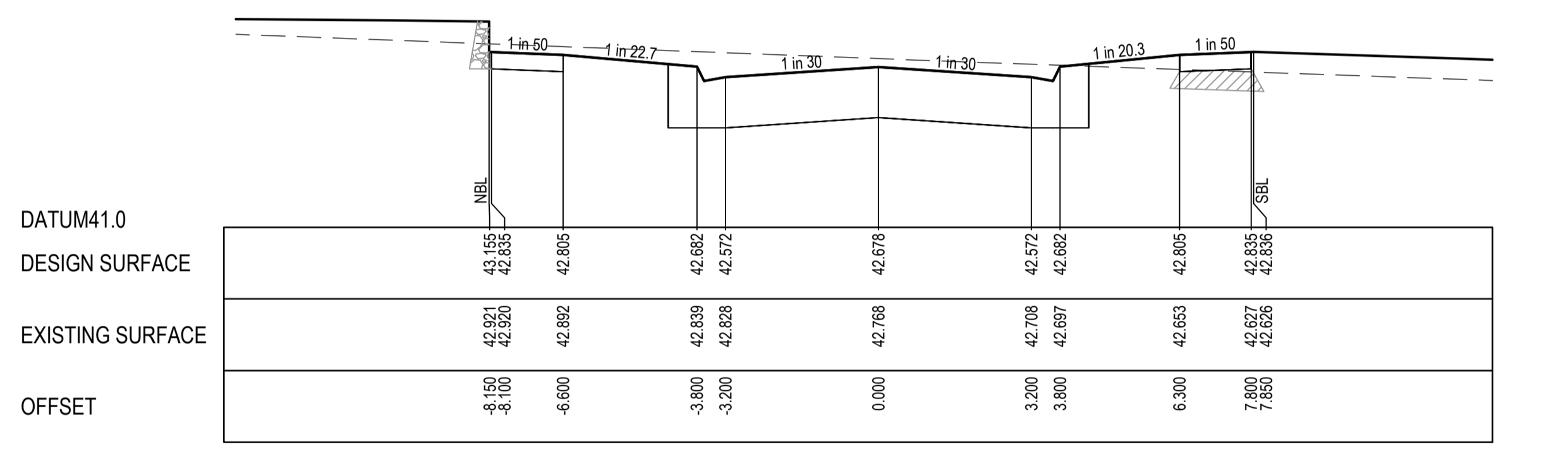
STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE NATURAL SURFACE. REFER GEOTECH REPORT FOR SPECIFICATION

LEGEND

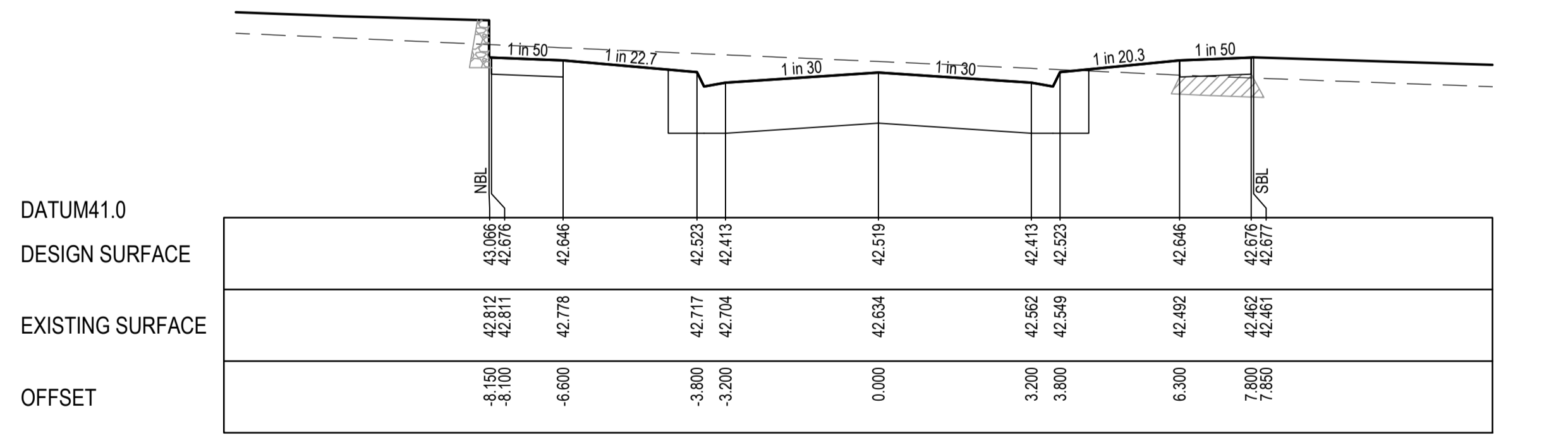
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 — DESIGN SURFACE
 [Hatched Box] STRUCTURAL FILL



TPCH 382.627



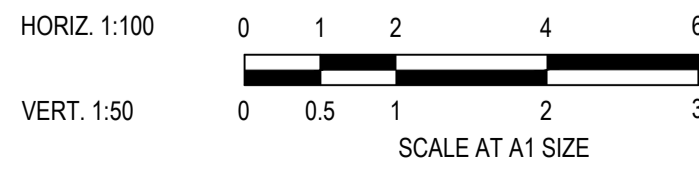
TPCH 359.027



CH 327.227

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A	ISSUED FOR CONSTRUCTION	21.12.22	C.D.	M.F.					
REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.



Designed Date: C.DAWSON 28.09.2022
 Drawn: L.SUTHERLAND
 Approved Date: M.FELICIANO 18.11.2022
 PS Number: PS904418Y

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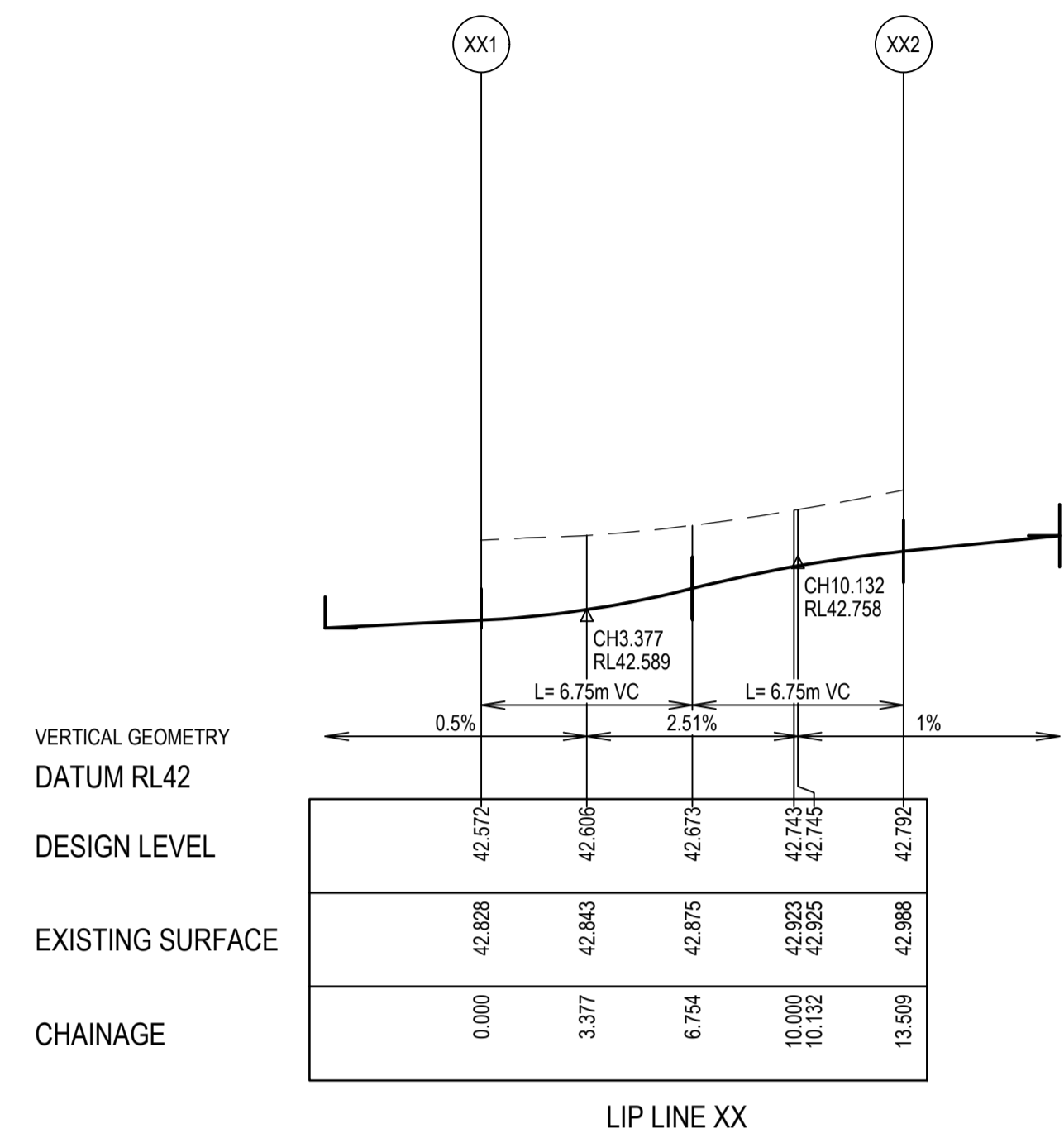
1 Glenferrie Road
 Malvern VIC 3144
 ph: 03 9524 8888
 www.beveridgewilliams.com.au

Project Details: MERIDIAN CENTRAL ESTATE
 STAGE 40
 CITY OF CASEY

Drawing Title: ROAD CROSS SECTIONS
 KHILLARI CIRCUIT
 (SHEET 2 OF 2)

Sheet 12 of 17			
Scale: 1:100 H 1:50 V @ A1			
Project Ref	Stage No	Drawing No	Rev
1801767	40	203	A

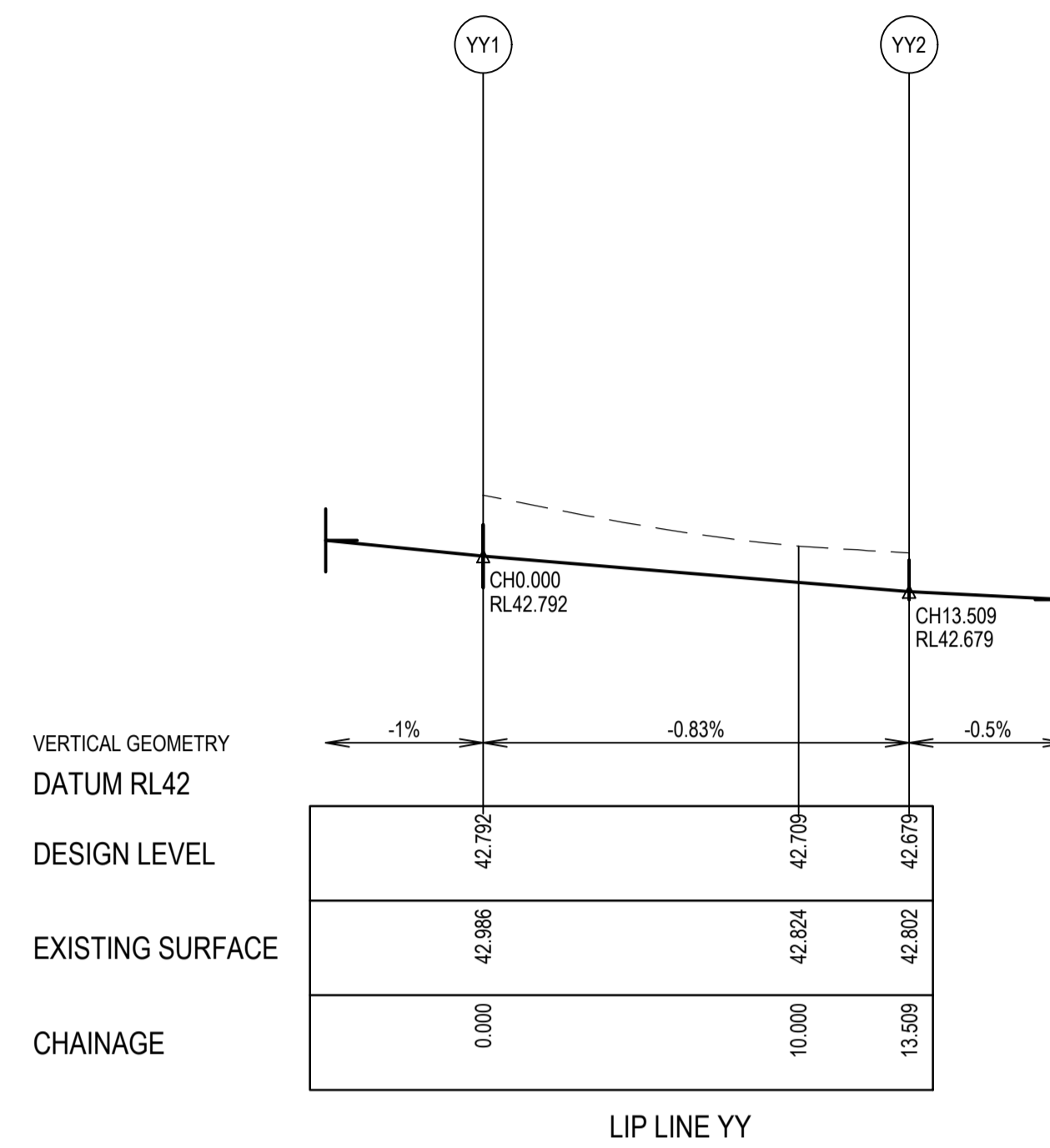
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LIP LINE XX

Point no	Easting	Northing	RL
XX1	2443.820	281.178	42.572
XX2	2453.421	288.644	42.792

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
XX1 - XX2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	42.673

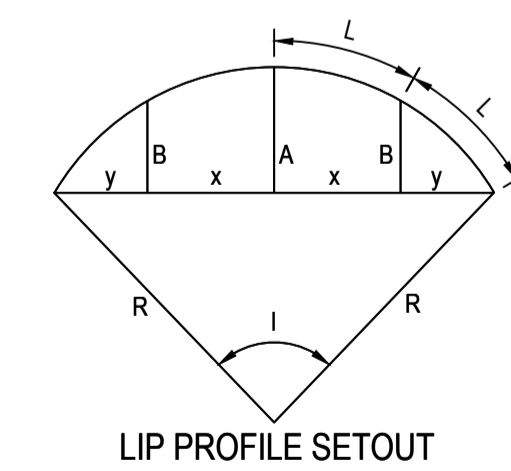
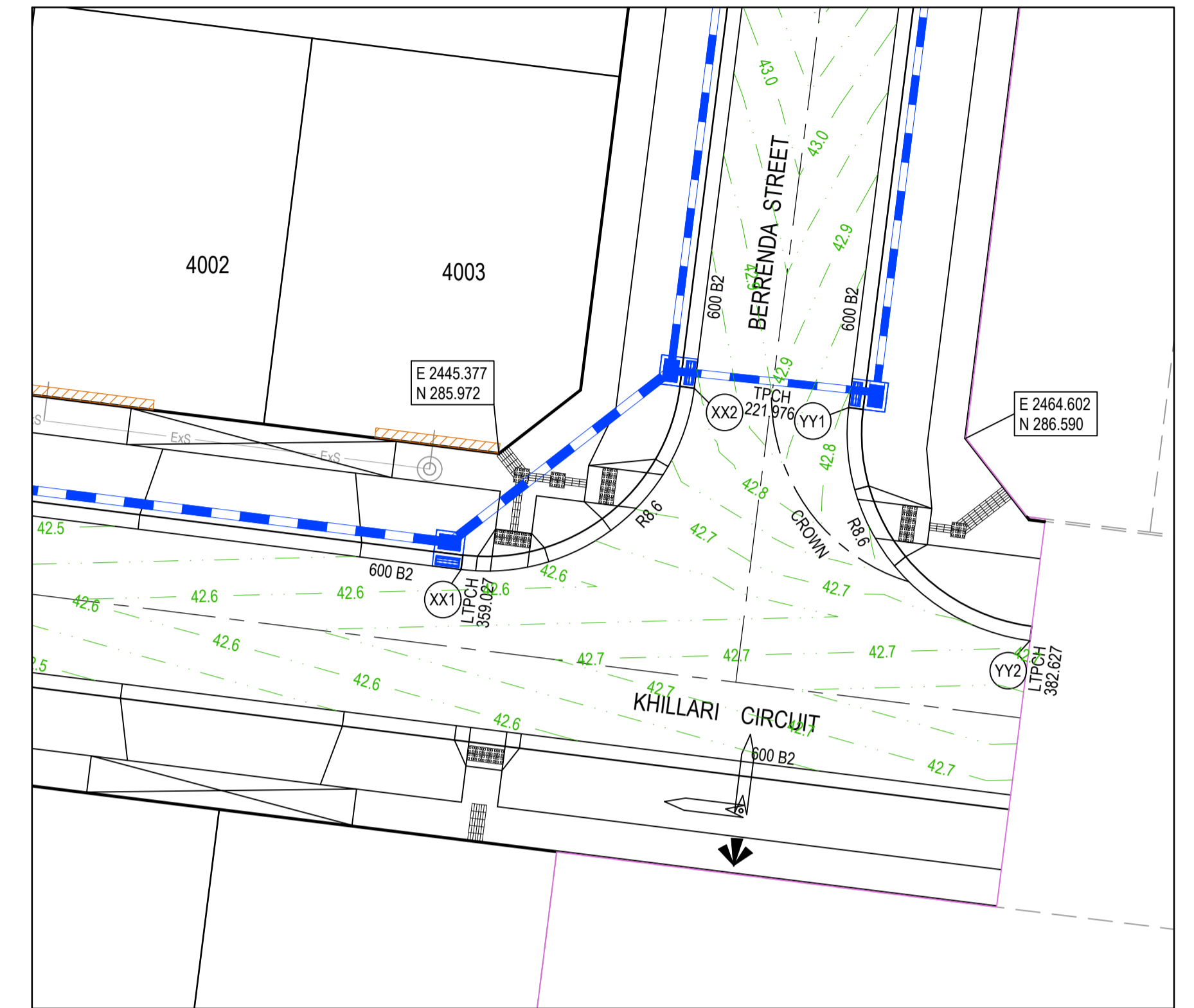


LIP LINE YY

LIP LINE YY

Point no	Easting	Northing	RL
YY1	2459.771	287.849	42.792
YY2	2467.237	278.248	42.679

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
YY1 - YY2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	42.736

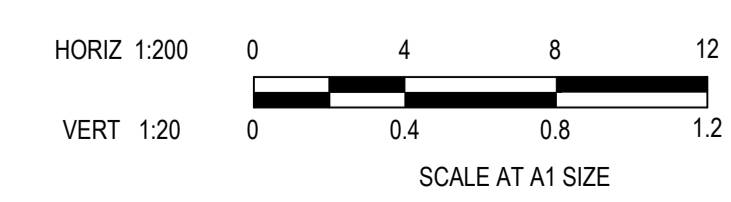


LEGEND

- STORMWATER DRAIN, PIT & PROPERTY INLET
- MELBOURNE WATER DRAIN & PIT
- SWALE DRAIN
- SEWER & MAINTENANCE STRUCTURES
- HOUSE DRAIN
- TACTILE PAVERS (INDICATIVE ONLY)
- EXISTING HOUSE DRAIN
- RETAINING WALL
- PAVEMENT TREATMENT
- CONCRETE EDGE STRIP WITH SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
- LIMIT OF WORKS
- EXISTING TREE TO BE REMOVED
- PERMANENT SURVEY MARK
- TEMPORARY BENCH MARK
- PROPOSED DRIVEWAY

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REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.
A	ISSUED FOR CONSTRUCTION	21.12.22	C.D.	M.F.					



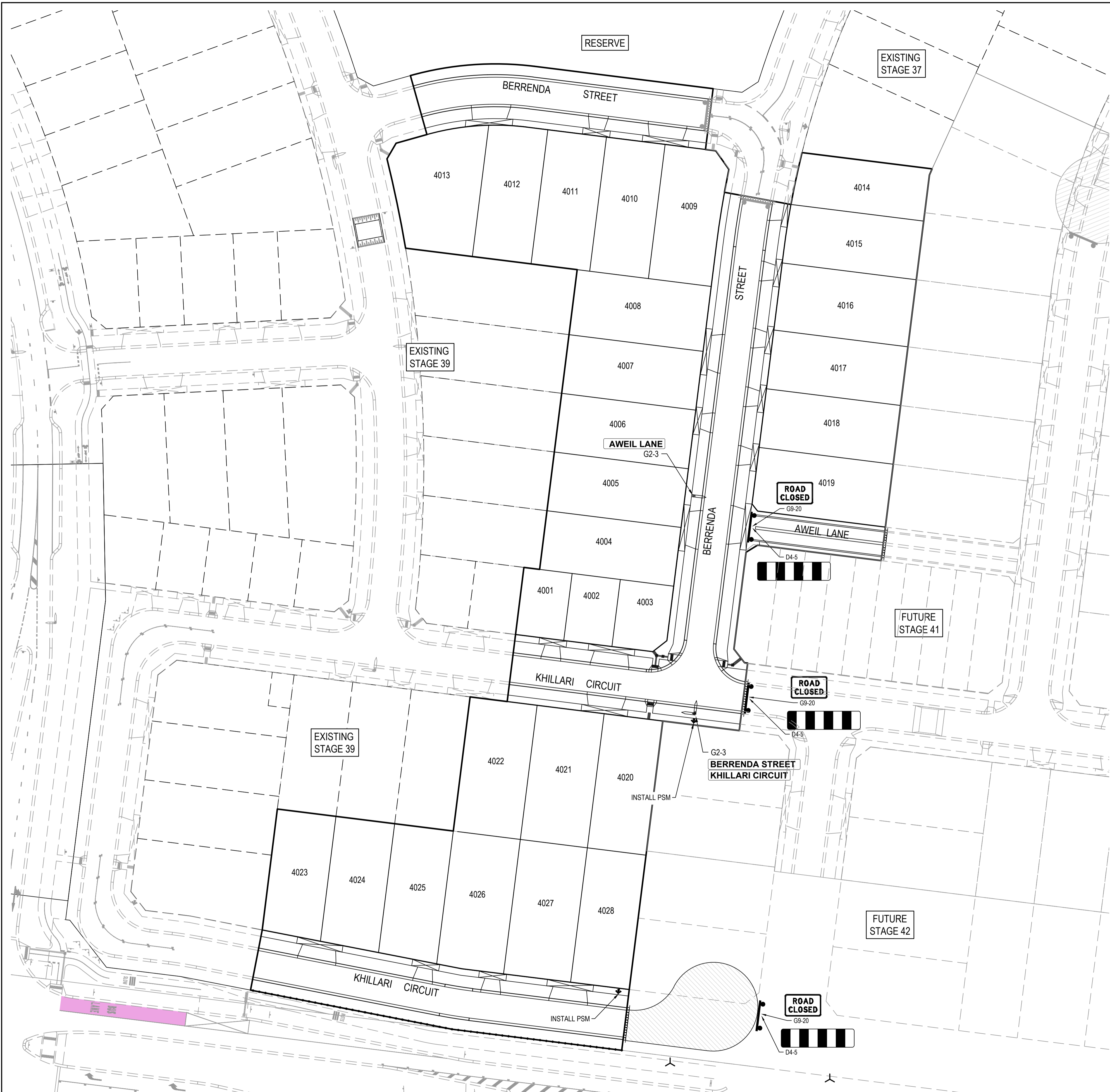
Designed Date: C.DAWSON 28.09.2022
 Drawn: L.SUTHERLAND
 Approved Date: M.FELICIANO 18.11.2022
 PS Number: PS904418Y



Project Details: MERIDIAN CENTRAL ESTATE
 STAGE 40
 CITY OF CASEY
 Drawing Title: INTERSECTION DETAILS

Sheet 13 of 17
 Scale: 1:200 H 1:20 V @ A1
 Project Ref: 1801767
 Stage No: 40
 Drawing No: 300
 Rev: A

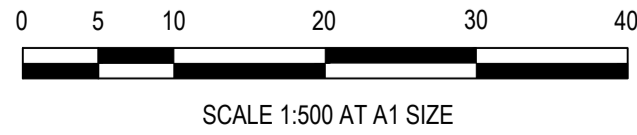
K:\Jobs Data\1801767 - Meridian_Eng\Stage 40\Drawings\1801767-40-300-INT.dwg



- NOTES**
1. RRPM'S AT MAX 6m SPACING.
 2. LINEMARKING TO BE EXTENDED AT LEAST 6m FROM THE TANGENT POINT
 3. LINEMARKING IN ACCORDANCE WITH AS1742.
 4. TGS1 TO BE INSTALLED IN ACCORDANCE WITH AS1428.4 & VICROADS SUPPLEMENTARY STANDARD TEM Vol 2 Part 2.23
 5. ALL STREET NAME SIGNS AT INTERSECTIONS TO INCLUDE RELEVANT STREET NUMBERING.
 6. ALL LINE MARKING PAINT SHALL BE LONG LIFE TYPE. LATERAL WORKS AND ARROWS BEING COLD APPLIED PLASTIC TROWELLED INTO PLACE (MATERIAL DEGADUR PLASTELINE) AND LONGITUDINAL LINES BEING EXTRUDED THERMOPLASTIC MATERIAL.

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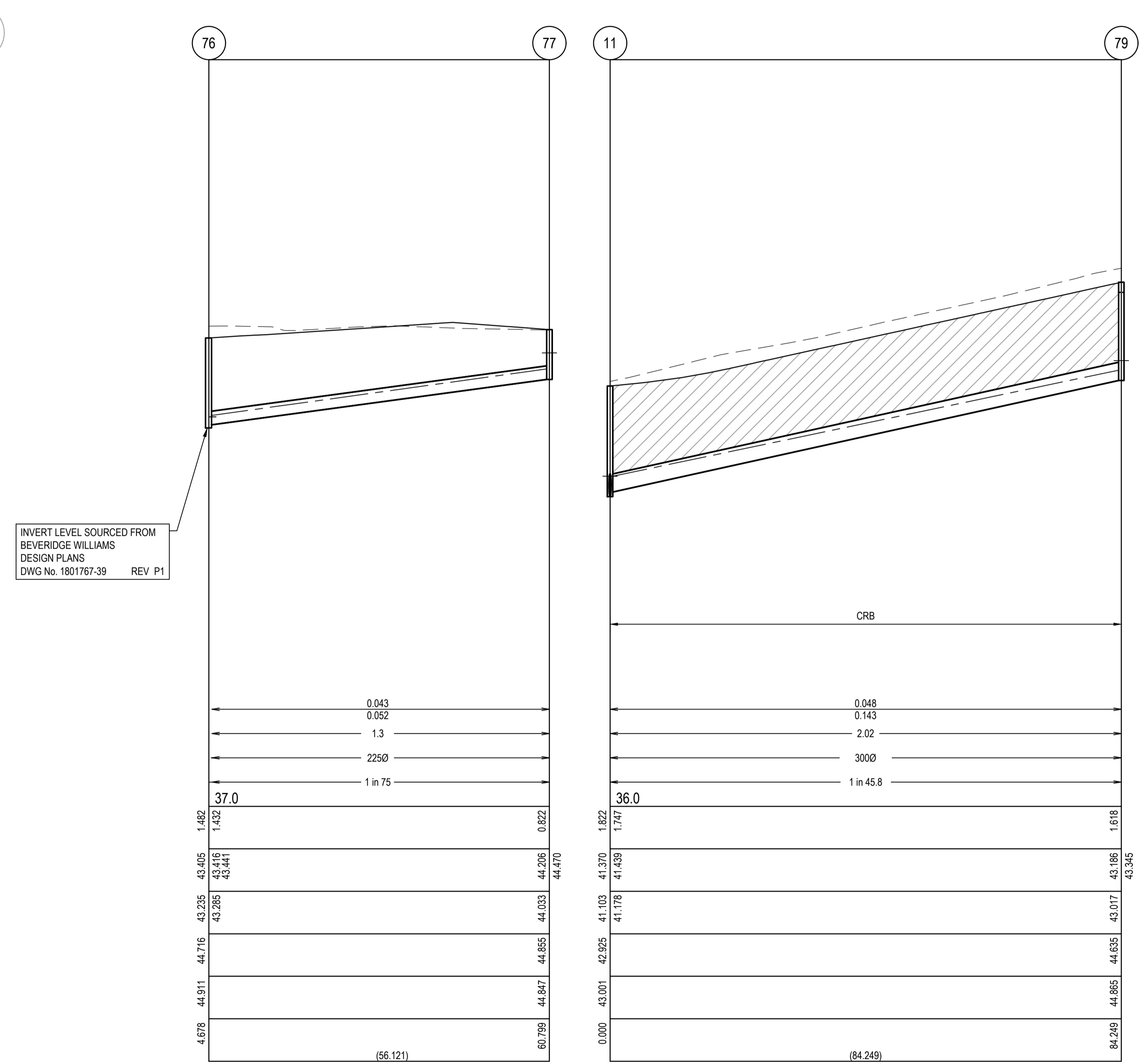
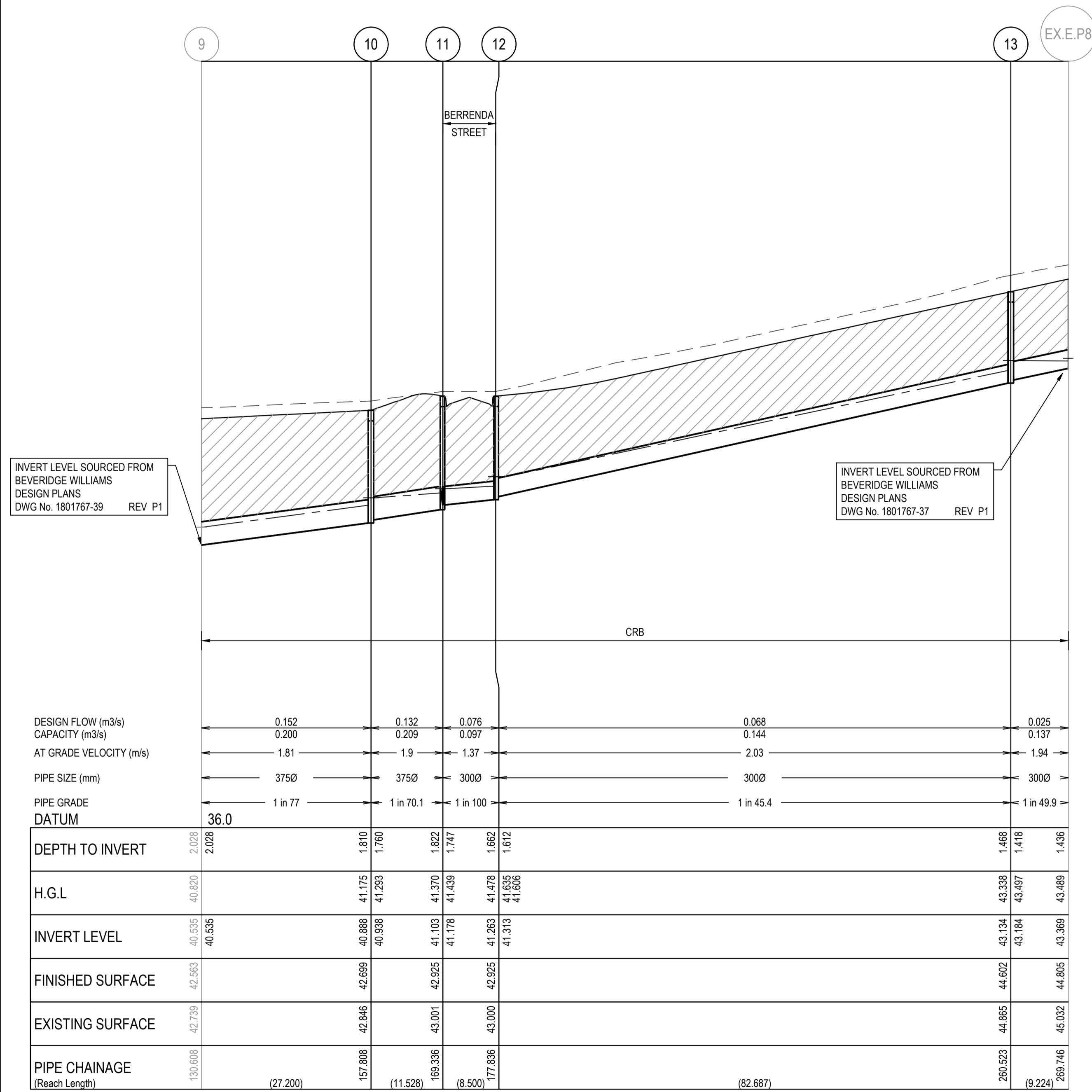


Project Details: MERIDIAN CENTRAL ESTATE
 STAGE 40
 CITY OF CASEY
 Drawing Title: SIGNAGE & LINE MARKING PLANS

Sheet 14 of 17			
Scale: 1:500 @ A1			
Project Ref	Stage No	Drawing No	Rev
1801767	40	350	A

NOTES:
 ALL STORMWATER DRAINS UP TO AND INCLUDING 750mm DIA. ARE TO BE CLASS 2 R.R.J. PIPES UNLESS NOTED OTHERWISE.

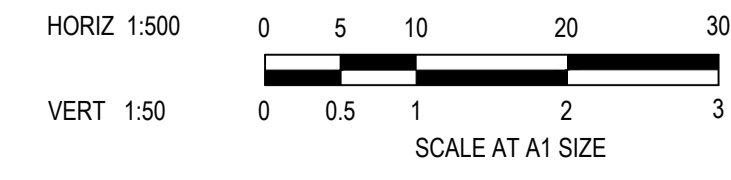
LEGEND	
	EXISTING SURFACE
	DESIGN SURFACE
	DRAINAGE PIPE/PIT
	EXISTING DRAINAGE PIPE/PIT
	HYDRAULIC GRADE LINE
	DENOTES 20mm CLASS 3 FCR BACKFILL



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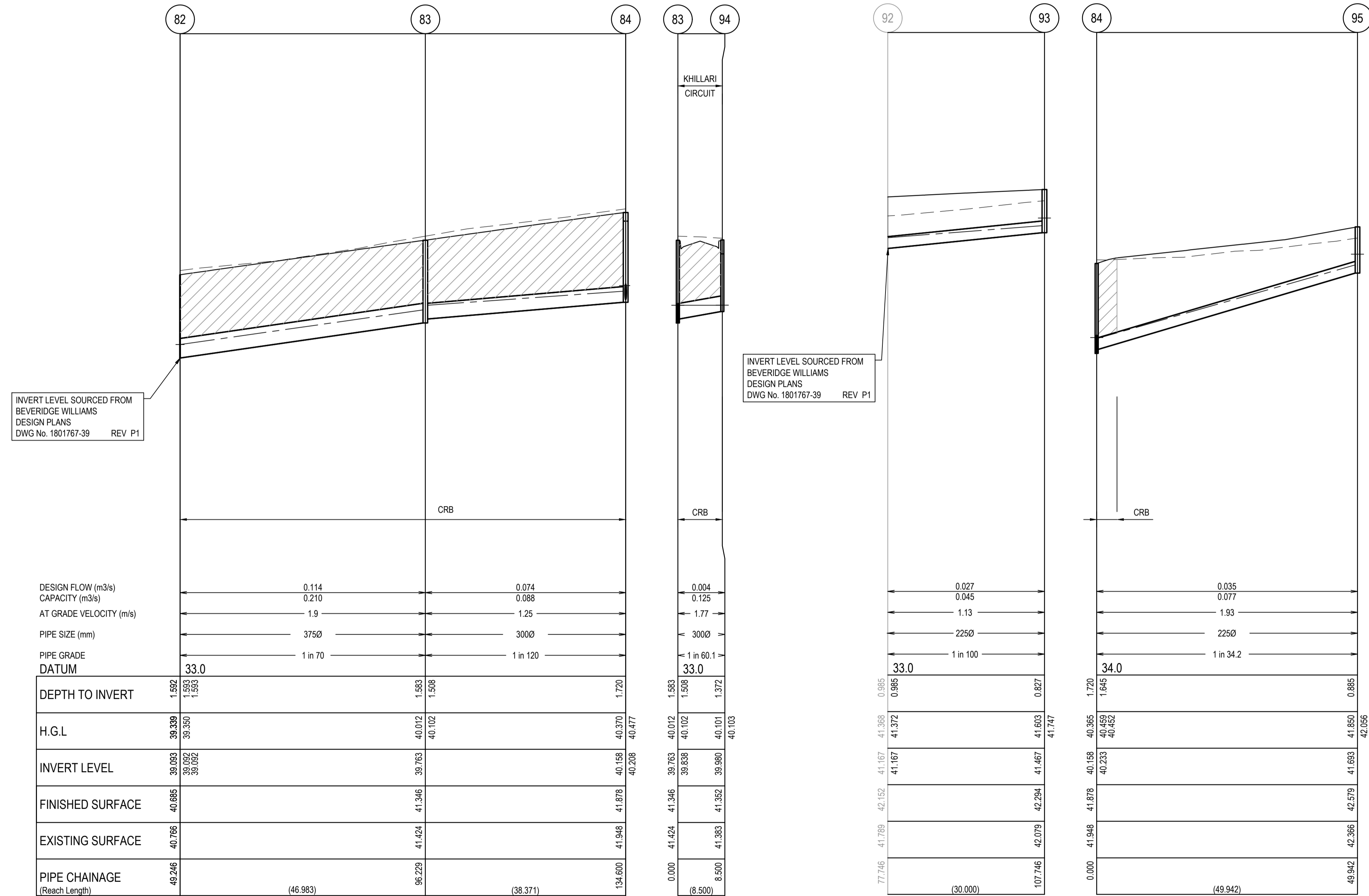


Project Details: MERIDIAN CENTRAL ESTATE STAGE 40 CITY OF CASEY
 Drawing Title: DRAINAGE LONGITUDINAL SECTIONS (SHEET 1 OF 2)

Sheet 15 of 17
 Scale: 1:500 H 1:50 V @ A1
 Project Ref: 1801767 Stage No: 40 Drawing No: 400 Rev: A

NOTES:
 ALL STORMWATER DRAINS UP TO AND INCLUDING 750mm DIA. ARE TO BE CLASS 2 R.R.J. PIPES UNLESS NOTED OTHERWISE.

LEGEND	
	EXISTING SURFACE
	DESIGN SURFACE
	DRAINAGE PIPE/PIT
	EXISTING DRAINAGE PIPE/PIT
	HYDRAULIC GRADE LINE
	DENOTES 20mm CLASS 3 FCR BACKFILL



INVERT LEVEL SOURCED FROM BEVERIDGE WILLIAMS DESIGN PLANS DWG No. 1801767-39 REV P1

INVERT LEVEL SOURCED FROM BEVERIDGE WILLIAMS DESIGN PLANS DWG No. 1801767-39 REV P1

	82	83	84
DESIGN FLOW (m ³ /s)		0.114	0.074
CAPACITY (m ³ /s)		0.210	0.088
AT GRADE VELOCITY (m/s)		1.9	1.25
PIPE SIZE (mm)		3750	3000
PIPE GRADE		1 in 70	1 in 120
DATUM	33.0		
DEPTH TO INVERT	1.592 1.593 1.593		1.720
H.G.L	39.339 39.350 39.350		40.370 40.477
INVERT LEVEL	39.093 39.092 39.092		40.158 40.208
FINISHED SURFACE	40.685	41.346	41.878
EXISTING SURFACE	40.766	41.424	41.948
PIPE CHAINAGE (Reach Length)	49.246	96.229 (46.983)	134.600 (38.371)

	83	94
DESIGN FLOW (m ³ /s)		0.004
CAPACITY (m ³ /s)		0.125
AT GRADE VELOCITY (m/s)		1.77
PIPE SIZE (mm)		3000
PIPE GRADE		1 in 60.1
DATUM	33.0	
DEPTH TO INVERT	1.593 1.598	1.372
H.G.L	39.763 39.838	40.103
INVERT LEVEL	39.763 39.838	39.880
FINISHED SURFACE	41.346	41.352
EXISTING SURFACE	41.424	41.383
PIPE CHAINAGE (Reach Length)	0.000 (8.500)	6.500

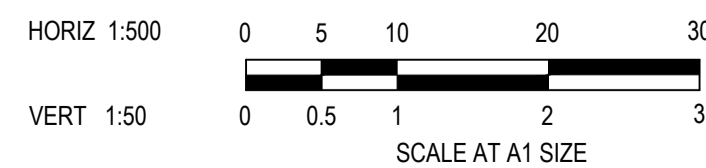
	92	93
DESIGN FLOW (m ³ /s)		0.027
CAPACITY (m ³ /s)		0.045
AT GRADE VELOCITY (m/s)		1.13
PIPE SIZE (mm)		2250
PIPE GRADE		1 in 100
DATUM	33.0	
DEPTH TO INVERT	0.965 0.965	0.827
H.G.L	41.167 41.372	41.603 41.747
INVERT LEVEL	41.167 41.372	41.667
FINISHED SURFACE	42.152	42.294
EXISTING SURFACE	41.789	42.079
PIPE CHAINAGE (Reach Length)	77.746 (30.000)	107.746

	84	95
DESIGN FLOW (m ³ /s)		0.035
CAPACITY (m ³ /s)		0.077
AT GRADE VELOCITY (m/s)		1.93
PIPE SIZE (mm)		2250
PIPE GRADE		1 in 34.2
DATUM	34.0	
DEPTH TO INVERT	1.720 1.645	0.885
H.G.L	40.158 40.459 40.452	41.690 42.056
INVERT LEVEL	40.158 40.233	41.693
FINISHED SURFACE	41.878	42.579
EXISTING SURFACE	41.948	42.366
PIPE CHAINAGE (Reach Length)	0.000 (49.942)	49.942

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Designed Date: C.DAWSON 28.09.2022
 Drawn: L.SUTHERLAND
 Approved Date: M.FELICIANO 18.11.2022
 PS Number: PS904418Y



Project Details: MERIDIAN CENTRAL ESTATE STAGE 40 CITY OF CASEY
 Drawing Title: DRAINAGE LONGITUDINAL SECTIONS (SHEET 2 OF 2)

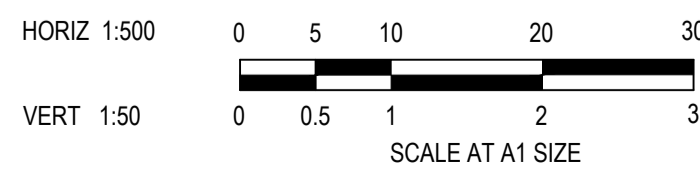
Sheet 16 of 17
 Scale: 1:500 H 1:50 V @ A1
 Project Ref: 1801767 Stage No: 40 Drawing No: 401 Rev: A

PIT SCHEDULE											
PIT NAME	PIT TYPE	INTERNAL		INLET		OUTLET		PIT		STD DWG	REMARKS
		WIDTH	LENGTH	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH		
Ex.9	END PIPE			375	40.535	375	40.535	42.563	2.028		CONNECT TO EXISTING END PIPE
10	GRADED ENTRY PIT	600	900	375	40.938	375	40.888	42.699	1.810	EDCM 601 & 605	
11	GRADED ENTRY PIT	600	900	300	41.178	375	41.103	42.925	1.822	EDCM 601 & 605	
				300	41.178						
12	GRADED ENTRY PIT	600	900	300	41.313	300	41.263	42.925	1.662	EDCM 601 & 605	
13	GRADED ENTRY PIT	600	900	300	43.184	300	43.134	44.602	1.468	EDCM 601 & 605	
Ex.E.P8	END PIPE					300	43.369	44.805	1.436		CONNECT TO EXISTING END PIPE
76	JUNCTION PIT	600	900	225	43.285	225	43.235	44.716	1.482	EDCM 605	CONSTRUCT NEW PIT AT EXISTING END PIPE
77	JUNCTION PIT	600	900			225	44.033	44.855	0.822	EDCM 605	
79	GRADED ENTRY PIT	600	900			300	43.017	44.635	1.618	EDCM 601 & 605	
Ex.82	END PIPE			375	39.093	375	39.093	40.685	1.592		CONNECT TO EXISTING END PIPE
83	GRADED ENTRY PIT	600	900	300	39.838	375	39.763	41.346	1.583	EDCM 601 & 605	
				300	39.838						
84	JUNCTION PIT	600	900	300	40.208	300	40.158	41.878	1.720	EDCM 605	
				225	40.233						
Ex.92	END PIPE			225	41.167	225	41.167	42.152	0.985		CONNECT TO EXISTING END PIPE
93	JUNCTION PIT	600	900			225	41.467	42.294	0.827	EDCM 605	
94	GRADED ENTRY PIT	600	900			300	39.98	41.352	1.372	EDCM 601 & 605	
95	JUNCTION PIT	600	900			225	41.693	42.579	0.885	EDCM 605	

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Designed Date: C.DAWSON 28.09.2022
Drawn: L.SUTHERLAND
Approved Date: M.FELICIANO 18.11.2022
PS Number: PS904418Y



Project Details: MERIDIAN CENTRAL ESTATE
STAGE 40
CITY OF CASEY
Drawing Title: PIT SCHEDULE

Sheet 17 of 17
Scale: 1:500 H 1:50 V @ A1
Project Ref: 1801767
Stage No: 40
Drawing No: 402
Rev: A