

LOCALITY PLAN (NTS)
MELWAYS: 367-E1

SHEET INDEX

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15	P1	TYPICAL CROSS SECTIONS & PAVEMENT DETAILS
16	P1	RETAINING WALL PLAN & DETAILS

SODIC SOIL REQUIREMENTS
CONTRACTOR IS TO REFER TO THE SODIC SOIL REPORT DATED 10TH DECEMBER 2021 AND READ IN CONJUNCTION WITH THE APPROVED ENVIRONMENTAL MANAGEMENT PLAN PRIOR TO COMMENCING ANY WORKS ON SITE.

- TOPSOIL - STRIPPING AND STORAGE OF TOPSOIL FOR LATER USE.
(a) ALL TOPSOIL SHOULD BE STRIPPED FROM SITE AND PLACED IN DISCRETE MOUNDS AND ARE TO BE SEED TO PROMOTE VEGETATION COVER TO PREVENT EROSION.
- SUBSOIL - BULK EARTHWORKS DOWN TO FINISHED SURFACE LEVEL.
(a) NO ADDITIONAL TREATMENT REQUIRED IN DP30 STAGES.
- TOPSOILING - FORM EXISTING STOCKPILES ABOVE.
(a) PLACE TOPSOIL AND HYDROSEED TO PROMOTE GROWTH AS SOON AS POSSIBLE.
- AS PER THE SODIC SOIL ASSESSMENT REPORT, ALL TEMPORARY CATCH DRAINS, WATERWAYS OR WETLANDS, AND CONSTRUCTION ACCESS TRACKS TO BE TREATED WITH GYPSUM.
- CONTRACTOR IS TO PROVIDE PHOTOGRAPHIC EVIDENCE OF GYPSUM TREATMENT DURING CONSTRUCTION AND PRACTICAL COMPLETION. CONSULTATION WITH COUNCIL SUPERVISORS.

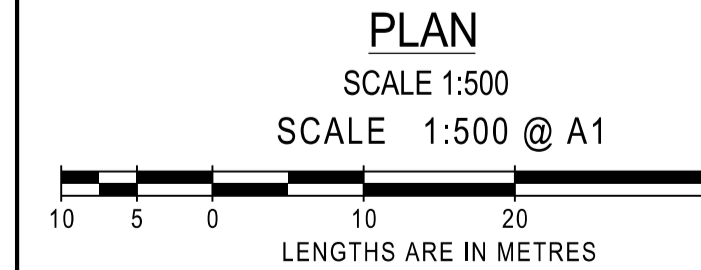
SEWER BACKFILL & STRUCTURE NOTES:
1. FOR SEWER BACKFILL DETAILS REFER SEWER DETAIL PLANS
2. WHERE SEWER STRUCTURES ARE NEAR THE EDGE OF THE FOOTPATH, ENSURE 100mm MIN FROM CONCRETE EDGE TO THE COVER SURROUND

SYMBOL LEGEND

Drains	Prop	Prev Stage	Ex/Natural/FS Level	+28.57	+28.57
Sewer < 3000	—	—	FS @ Building Line	+28.28	+28.28
Sewer ≥ 3000	—	—	Top/Toe of Batter	+28.28	+28.28
Water (DW)	—	—	Top Ret. Wall Level	+28.28	+28.28
Water (NDW)	—	—	100yr Flood Level	+28.28	+28.28
House Drain	—	—	Fill Proposed (<0.3m/20.3m)	—	—
Property Inlet	—	—	Cut Proposed (±0.2m)	—	—
Street Sign	—	—	Tree To Be Removed	—	—
PSM	—	—	Tree To Be Retained with Tree Protection Zone (TPZ)	—	—
Rock Ret Wall	—	—	—	—	—
Sloped Ret Wall	—	—	—	—	—
Conduits 50mm	—	—	—	—	—
Conduits 100mm	—	—	—	—	—
Street Tree without/with Passive Irrigation (Refer Detail)	—	—	—	—	—

DAM DE-SLUDGING NOTES:
EXISTING DAMS TO BE EXCAVATED TO A FIRM BASE AND BACKFILLED AS SPECIFIED. DEVELOPER'S CONSULTANT TO BE NOTIFIED WHEN THE DAMS ARE EXCAVATED TO A FIRM BASE.
NO FILLING IS TO BE PLACED PRIOR TO DAMS BEING INSPECTED AND LEVELS TAKEN.
BACKFILLING IS TO BE CARRIED OUT IN ACCORDANCE WITH COUNCIL NOTES 12, 13 & 14 ON SHEET 8.

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SERVICES OFFSETS AND LOCATIONS

Location	Gas	Water		Telecommunications		Electricity		BOK	Road Width	Joint Trenching	Street Classification
		NDW	DW	Cables	Pits	Cables	Poles				
TITANIUM STREET	2.10 E	2.50 E	3.00 E	1.85 W	1.85 W	2.20 W	1.00 BOK	3.90 W 4.20 E	16.00	G NDW DW & E NBN	ACCESS STREET LVL 1
CURRAWONG STREET	2.10 N	2.50 N	3.00 N	1.85 S	1.85 S	2.20 S	1.00 BOK	3.90 S 4.20 N	16.00	G NDW DW & E NBN	ACCESS STREET LVL 1
MAGNESIUM ROAD	2.10 E	2.50 E	3.00 E	1.85 W	1.85 W	2.20 W	1.00 BOK	3.90 W 4.20 E	16.00	G NDW DW & E NBN	ACCESS STREET LVL 1
STILT STREET	2.10 W	2.50 W	3.00 W	1.85 E	1.85 E	2.20 E	1.00 BOK	3.90 E 4.20 W	16.00	G NDW DW & E NBN	ACCESS STREET LVL 1

ATTENTION TO CONTRACTOR

- IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT THE DIGITAL PLAN, PROVIDED FOR SETOUT PURPOSES, MATCHES THE TBM COORDINATES SHOWN.
- Contractor to ensure that the site is pegged and/or set out checked by the licenced surveyor responsible for certifying the Plan of Subdivision prior to underground infrastructure being installed.
- Where concrete works about a sewer access chamber surround or similar structure, an expansion joint of approved material shall be provided between the two faces.

breese pitt dixon pty. ltd.
land surveyors civil engineers

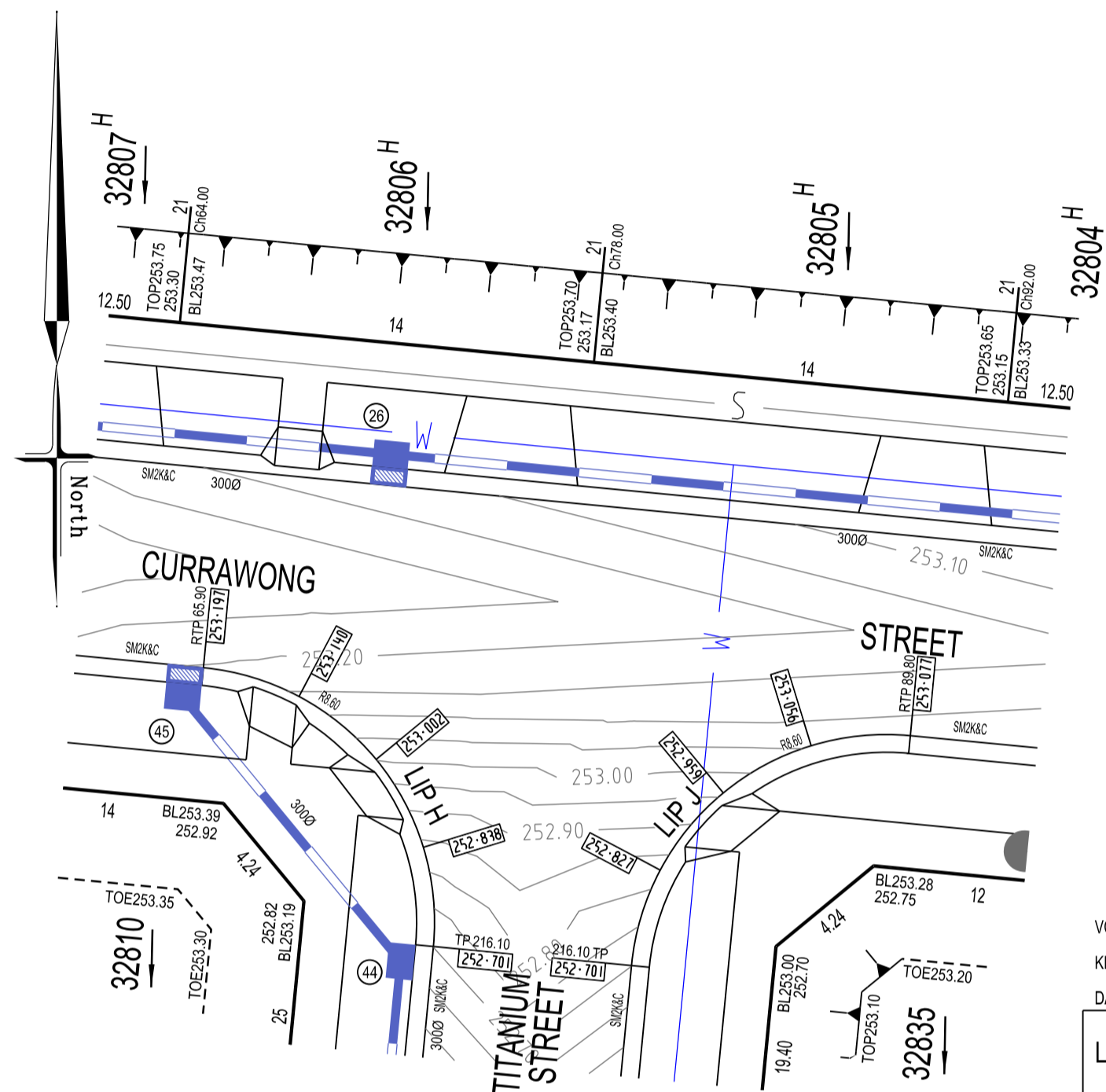
1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310

CLOVERTON ESTATE STAGE 328
LAYOUT PLAN AND DETAILS

MELWAY REF. 367-F-3
SURVEY VERIS
DESIGN R.W.
DRAWN D.W.
CHECKED A.K.SCALE AS SHOWN
DATUM AHD
DATE AUG '22
SHEET 1 OF 16
P1

VC LENGTH	3.65% 3.65% 5.27% 0.50% 0.50%				
KERB GRADING	6.75m V.C. 6.75m V.C.				
DATUM 251.5					
LIP OF KERB	252.518	252.701	252.888	253.002	253.222
LIP CHAINAGE	-5.000	0.000	3.377	6.754	10.132

LIP LINE H

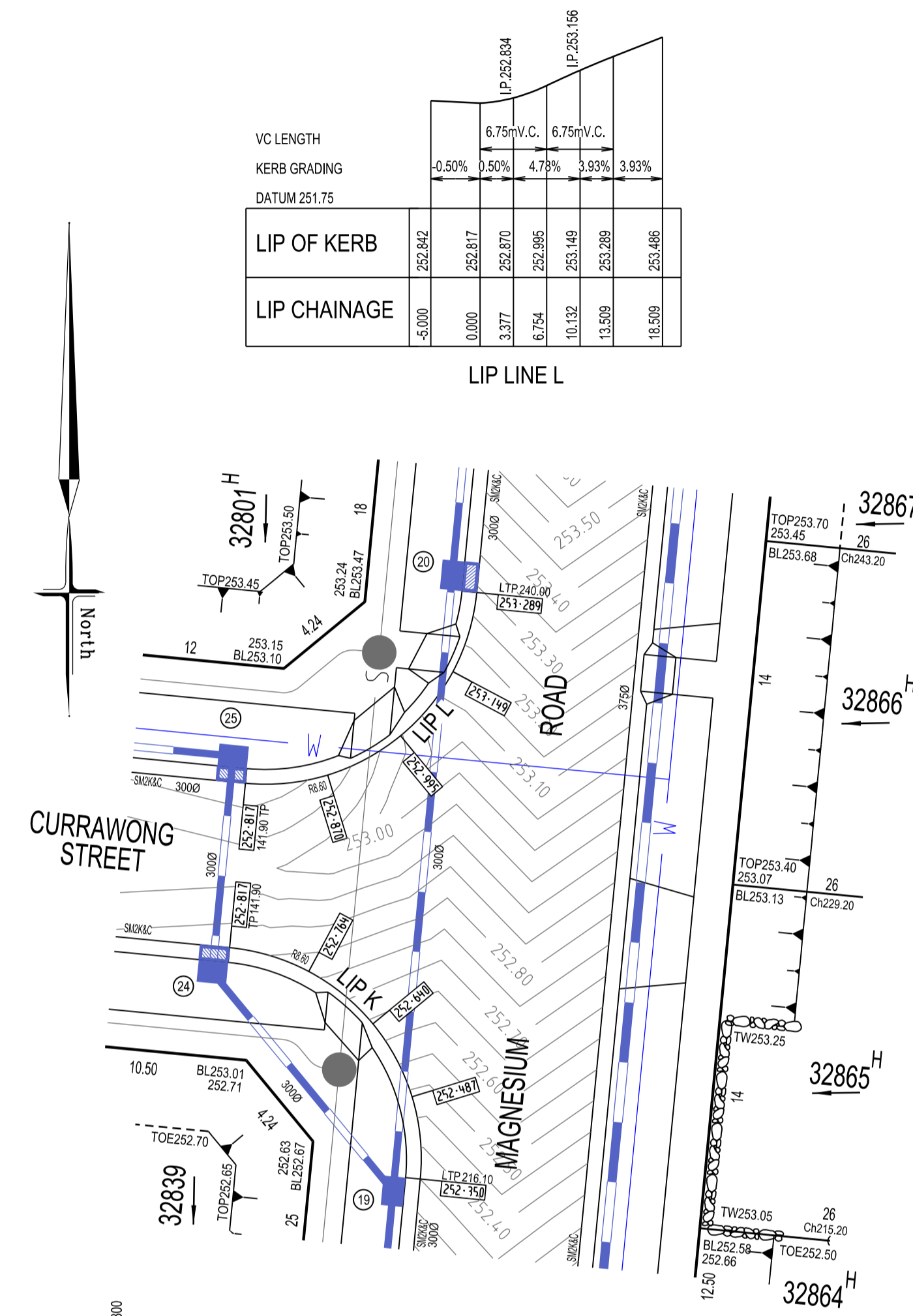


VC LENGTH	0.50% 0.50% -4.00% -3.65% -3.65%				
KERB GRADING	6.75m V.C. 6.75m V.C.				
DATUM 251.5					
LIP OF KERB	253.052	253.077	253.079	252.869	252.701
LIP CHAINAGE	-5.000	0.000	0.351	3.377	6.754

LIP LINE J

VC LENGTH	6.75m V.C. 6.75m V.C.				
KERB GRADING	-0.50% 0.50% 4.78% 3.93% 3.93%				
DATUM 251.75					
LIP OF KERB	252.842	252.817	252.870	252.895	253.149
LIP CHAINAGE	-5.000	0.000	3.377	6.754	10.132

LIP LINE L

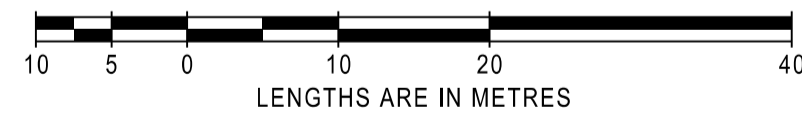


VC LENGTH	3.63% 3.63% 4.74% 0.50% 0.50%				
KERB GRADING	6.75m V.C. 6.75m V.C.				
DATUM 251					
LIP OF KERB	252.189	252.260	252.487	252.764	252.817
LIP CHAINAGE	-5.000	0.000	3.377	6.754	10.132

LIP LINE K

PLAN
SCALE 1:200

SCALE 1:200 @ A1

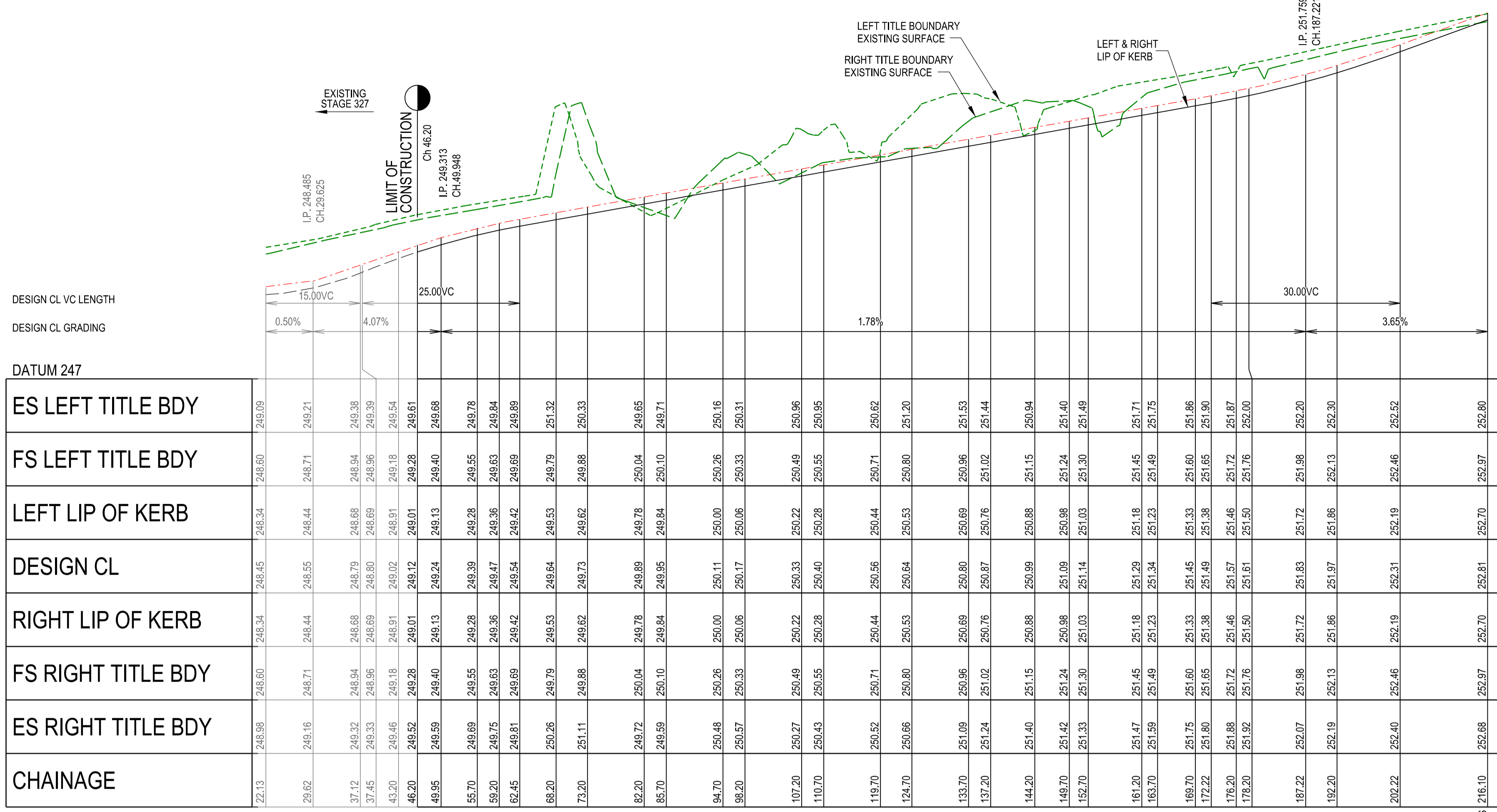


SYMBOL LEGEND	
Drains	Prop Prev Stage
Sewer < 3000	S S
Sewer ≥ 3000	S S
Water (DW)	W W
House Drain	W W
Property Inlet	W W
Street Sign	W W
PSM	W W
Rock Ret Wall	W W
Sleeper Ret Wall	W W
Conduits 50mm	W W
Conduits 100mm	W W
Street Tree without/with Passive Irrigation (Refer Detail)	W W
Ex Drains	W W
Ex Water/DW/DW	W W
Ex Sewer/Gas	W W
Ex Elect/Comm	W W
Ex/Natural/FS Level	• 28.57 • N28.57 • F28.57
FS @ Building Line	• BL28.57
Top/Toe of Batter	• TOP28.57 • TOE28.57
Top Ret. Wall Level	• TW28.57
100yr Flood Level	• FL28.57
Fill Proposed (<0.3m/≥0.3m)	■
Cut Proposed (≥0.2m)	■
Tree To Be Removed	⊗
Tree To Be Retained with Tree Protection Zone (TPZ)	⊙

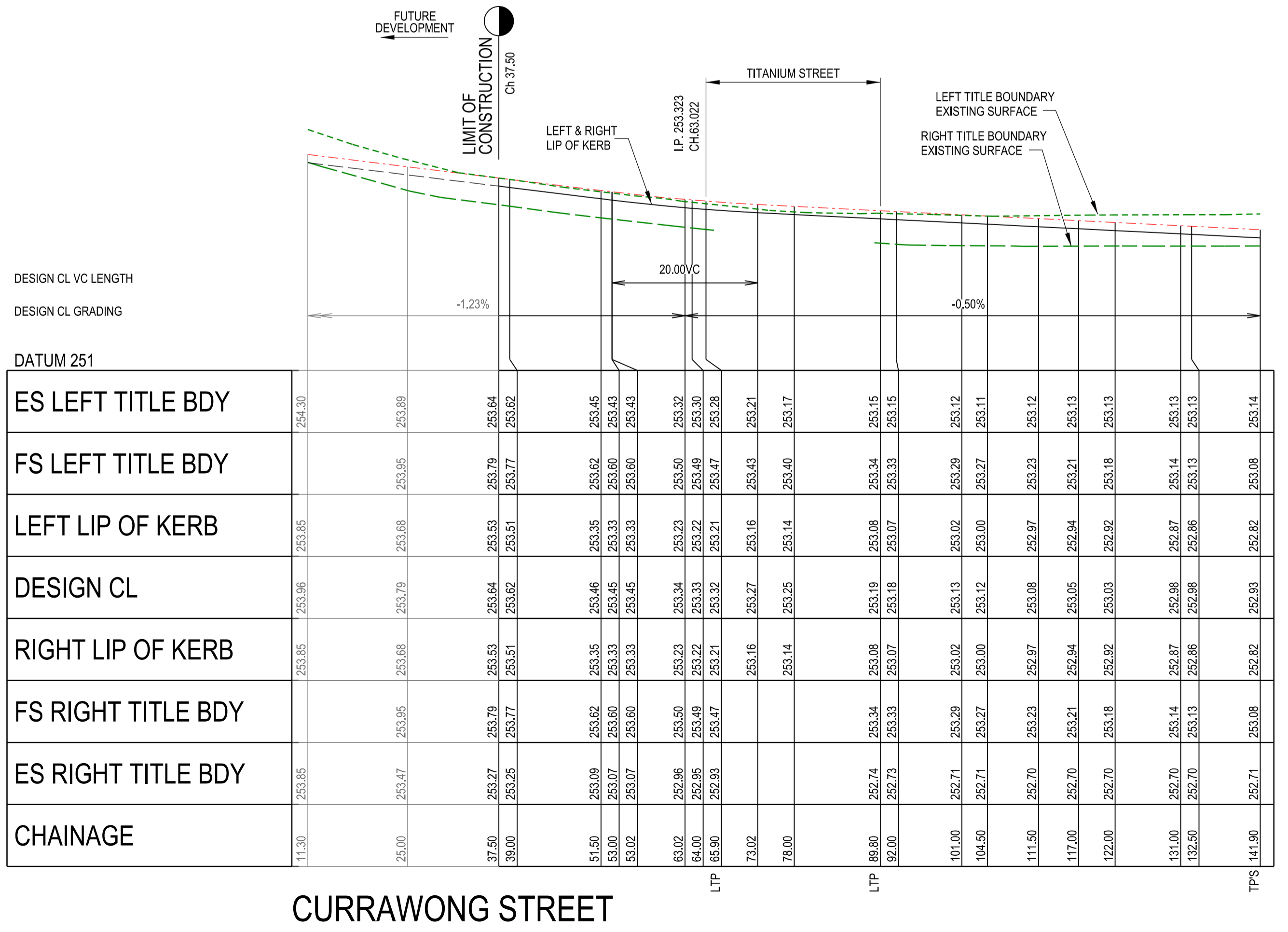
ALL SETOUT DETAILS ARE PROVIDED AT LIP OF KERB

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.

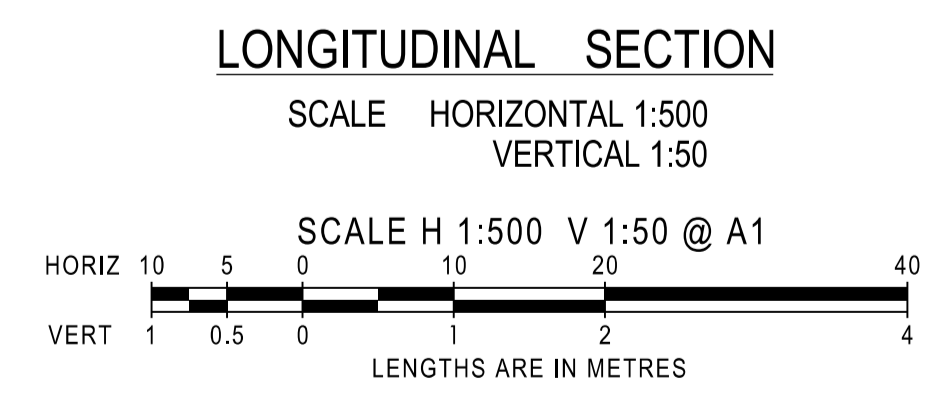
		breese pitt dixon pty. ltd. land surveyors civil engineers		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
MELWAY REF. 386-F-3 SURVEY VERIS DESIGN R.W. DRAWN D.W.		CLOVERTON ESTATE STAGE 328 INTERSECTION DETAILS		MUNICIPALITY HUME REFERENCE 8460 E/328	
AMENDMENTS	VER	DATE	REMARKS	CHECKED A.K.	SCALE AS SHOWN
					DATUM AHD
					DATE AUG'22
					SHEET 2 OF 16
					P1



TITANIUM STREET

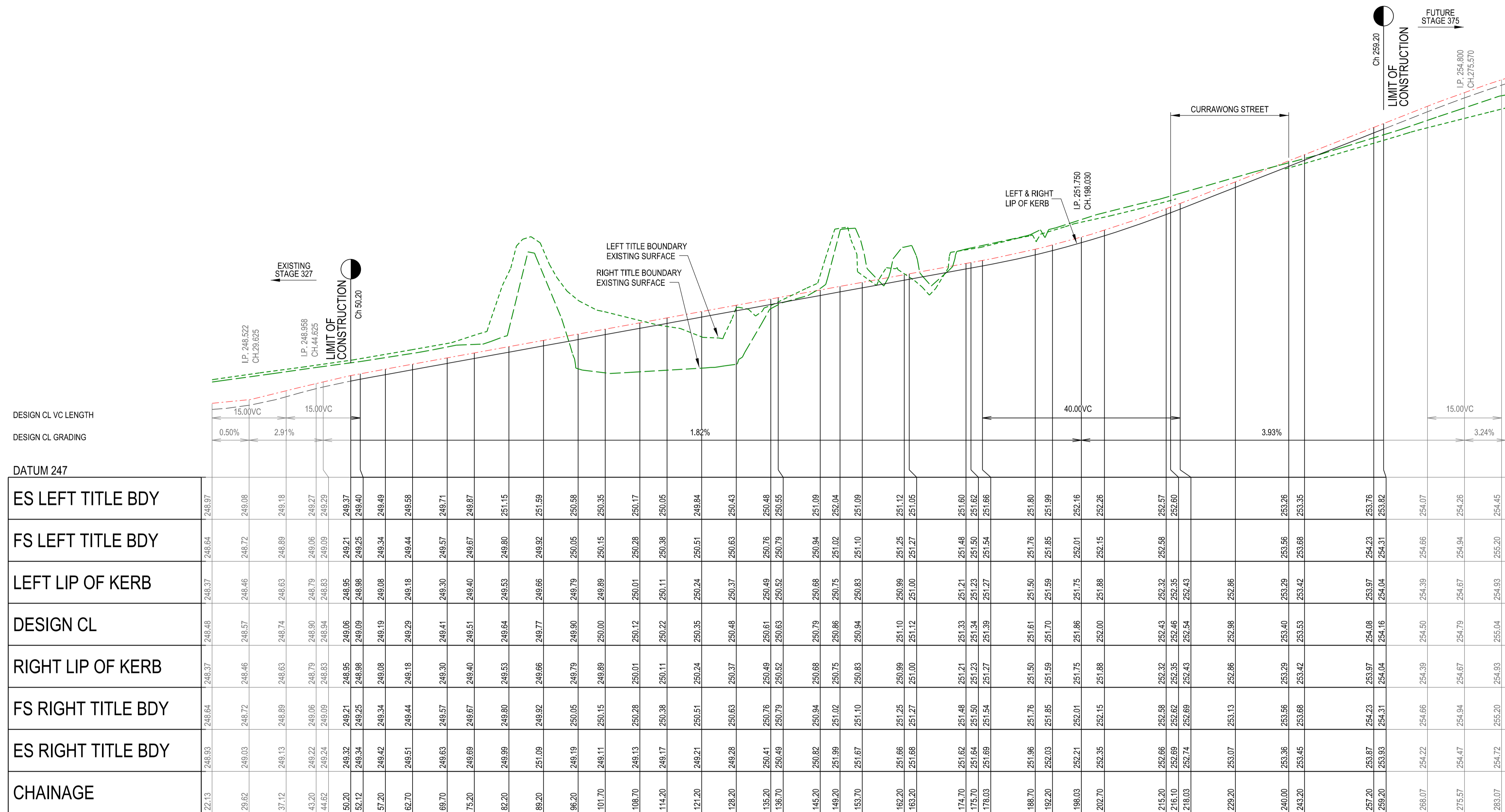


CURRAWONG STREET



AMENDMENTS	DATE	REMARKS	breese pitt dixon pty. ltd. land surveyors civil engineers 1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310					
	DESIGN	R.W.						
	DRAWN	D.W.						
	CHECKED	A.K.						
SCALE	AS SHOWN	DATUM	AHD	DATE	AUG '22	SHEET	3 OF 16	P1
CLOVERTON ESTATE STAGE 328 LONGITUDINAL SECTIONS			MUNICIPALITY HUME REFERENCE 8460^E/328					

E:\Engineering\Breese Pitt Dixon\ClovertonStage 328\Cadd\E328_R03.L51.dgn

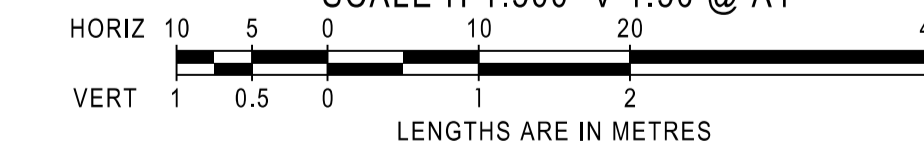


MAGNESIUM ROAD

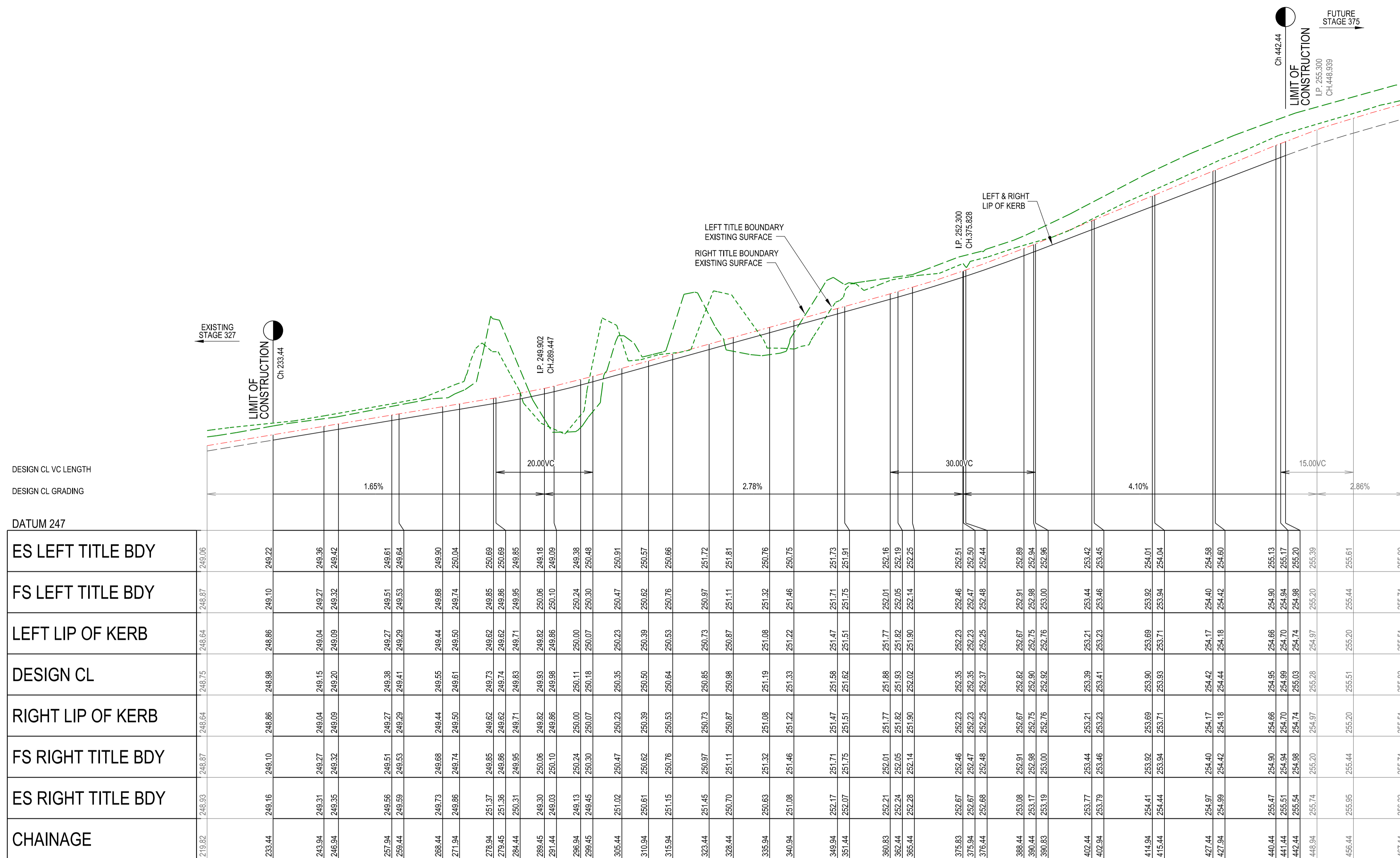
LONGITUDINAL SECTION

SCALE HORIZONTAL 1:50
VERTICAL 1:50

SCALE H 1:500 V 1:50 @ A1



AMENDMENTS		<p>breese pitt dixon pty. ltd. land surveyors civil engineers</p>	MELWAY REF. 386-F-3	<p>CLOVERTON ESTATE STAGE 328 LONGITUDINAL SECTIONS</p>	MUNICIPALITY
VER	DATE		REMARKS		<p>HUME</p> <p>REFERENCE</p> <p>8460^E/328</p>
					<p>1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310</p>
					<p>SCALE AS SHOWN</p> <p>DATUM AHD</p> <p>DATE AUG' 22</p> <p>SHEET 4 OF 16</p> <p>P1</p>



DESIGN CL VC LENGTH	DESIGN CL GRADING	DATUM 247
20.00 VC	1.65%	
30.00 VC	2.78%	
15.00 VC	4.10%	
	2.86%	

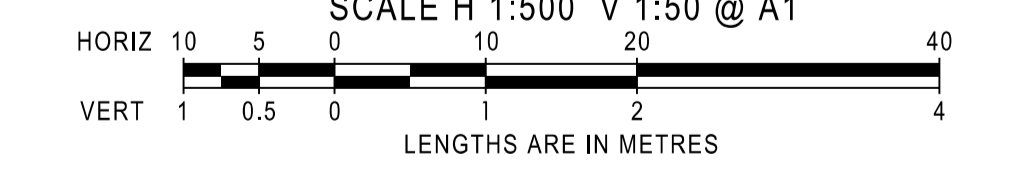
ES LEFT TITLE BDY	FS LEFT TITLE BDY	LEFT LIP OF KERB	DESIGN CL	RIGHT LIP OF KERB	FS RIGHT TITLE BDY	ES RIGHT TITLE BDY	CHAINAGE
249.06	248.87	248.64	248.75	248.84	248.87	248.93	219.82
249.22	249.10	248.86	248.98	248.86	249.10	249.16	233.44
249.36	249.27	249.04	249.15	249.04	249.27	249.31	243.94
249.42	249.32	249.09	249.20	249.09	249.32	249.35	246.94
249.61	249.51	249.27	249.38	249.27	249.51	249.56	257.94
249.64	249.53	249.29	249.41	249.29	249.53	249.59	259.44
249.80	249.68	249.44	249.55	249.44	249.68	249.73	266.44
250.04	249.74	249.50	249.61	249.50	249.74	249.86	271.94
250.09	249.85	249.62	249.73	249.62	249.85	251.37	276.94
250.09	249.86	249.62	249.74	249.62	249.86	251.36	279.45
249.85	249.85	249.71	249.83	249.71	249.85	250.31	284.44
249.18	250.06	249.82	249.93	249.82	250.06	249.30	289.45
249.09	250.10	249.86	249.98	249.86	250.10	249.03	291.44
249.38	250.24	250.00	250.11	250.00	250.24	249.13	296.94
250.48	250.30	250.07	250.18	250.07	250.30	249.45	298.45
250.91	250.47	250.23	250.35	250.23	250.47	251.02	305.44
250.57	250.62	250.39	250.50	250.39	250.62	250.61	310.94
250.66	250.76	250.53	250.64	250.53	250.76	251.15	315.94
251.72	250.87	250.73	250.85	250.73	250.87	251.45	323.44
251.81	250.87	250.87	250.98	250.87	251.11	250.70	328.44
250.76	251.32	251.08	251.19	251.08	251.32	250.63	335.94
250.75	251.46	251.22	251.33	251.22	251.46	251.08	340.94
251.73	251.71	251.47	251.56	251.47	251.71	252.17	349.94
251.91	251.75	251.51	251.62	251.51	251.75	252.07	351.44
252.16	252.01	251.77	251.88	251.77	252.01	252.21	360.83
252.19	252.05	251.82	251.93	251.82	252.05	252.24	362.44
252.25	252.14	251.90	252.02	251.90	252.14	252.28	365.44
252.51	252.35	252.23	252.35	252.23	252.51	252.67	375.83
252.50	252.47	252.23	252.35	252.23	252.47	252.67	375.84
252.44	252.48	252.25	252.37	252.25	252.48	252.68	376.44
252.89	252.82	252.67	252.82	252.67	252.89	253.08	388.44
252.94	252.75	252.90	252.75	252.90	252.94	253.17	390.44
252.96	252.76	252.92	252.92	252.76	253.00	253.19	390.83
253.42	253.21	253.44	253.39	253.21	253.44	253.77	402.44
253.45	253.23	253.41	253.23	253.41	253.45	253.79	402.94
254.01	253.92	253.69	253.90	253.69	254.01	254.41	411.94
254.04	253.71	253.71	253.93	253.71	254.04	254.44	415.44
254.58	254.40	254.17	254.42	254.17	254.58	254.97	427.44
254.60	254.42	254.18	254.44	254.18	254.60	254.99	427.94
255.13	254.95	254.66	254.95	254.66	255.13	255.47	440.44
255.17	254.70	254.99	254.70	254.94	255.17	255.51	441.44
255.20	254.74	254.74	255.03	254.74	255.20	255.54	442.44
255.39	255.20	254.97	255.28	254.97	255.39	255.74	446.94
255.61	255.44	255.20	255.51	255.20	255.61	255.95	456.44
255.74	255.51	255.20	255.82	255.51	255.74	256.23	467.14

STILT STREET

LONGITUDINAL SECTION

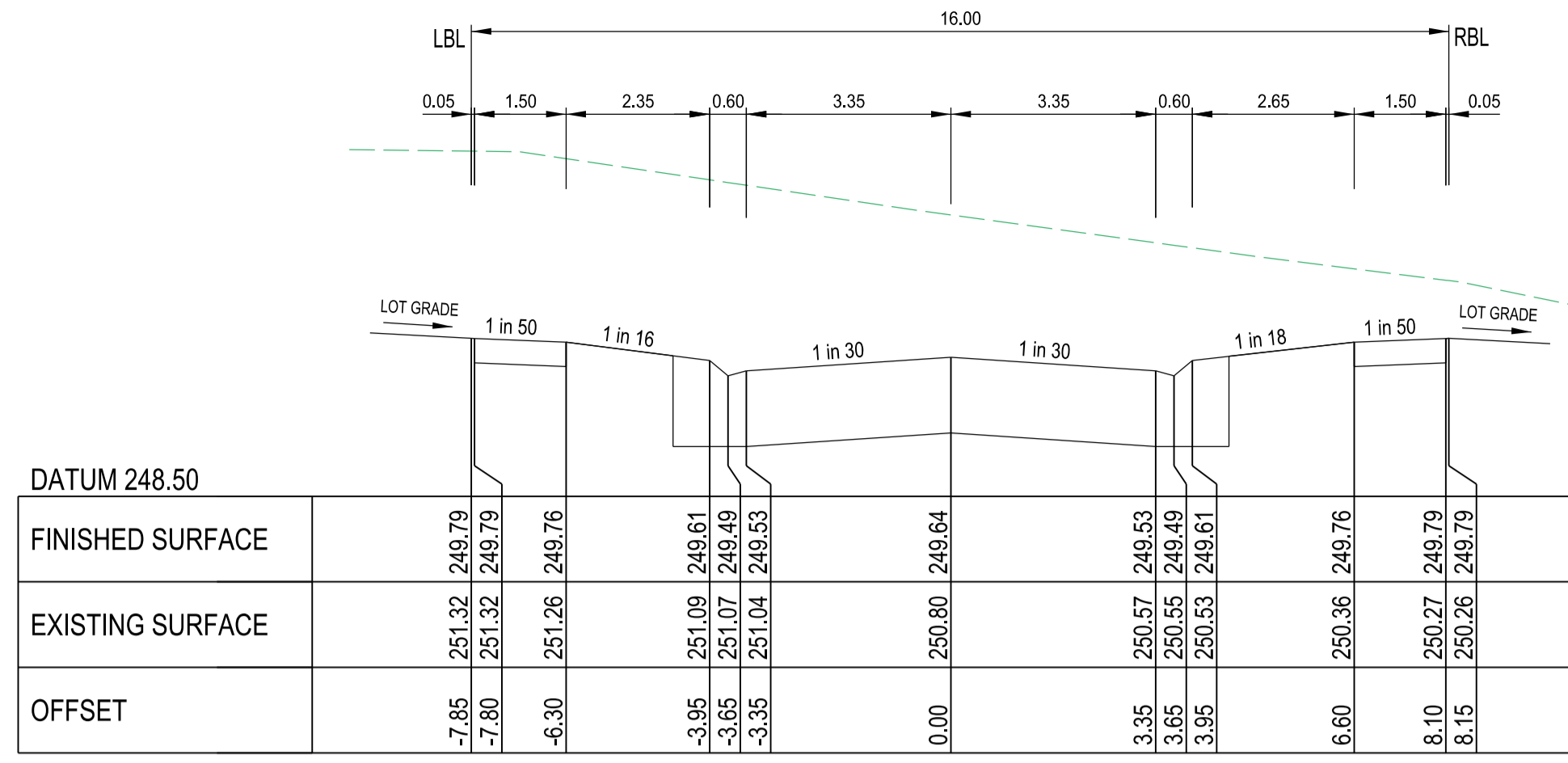
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VERTICAL 1:50

SCALE H 1:500 V 1:50 @ A1

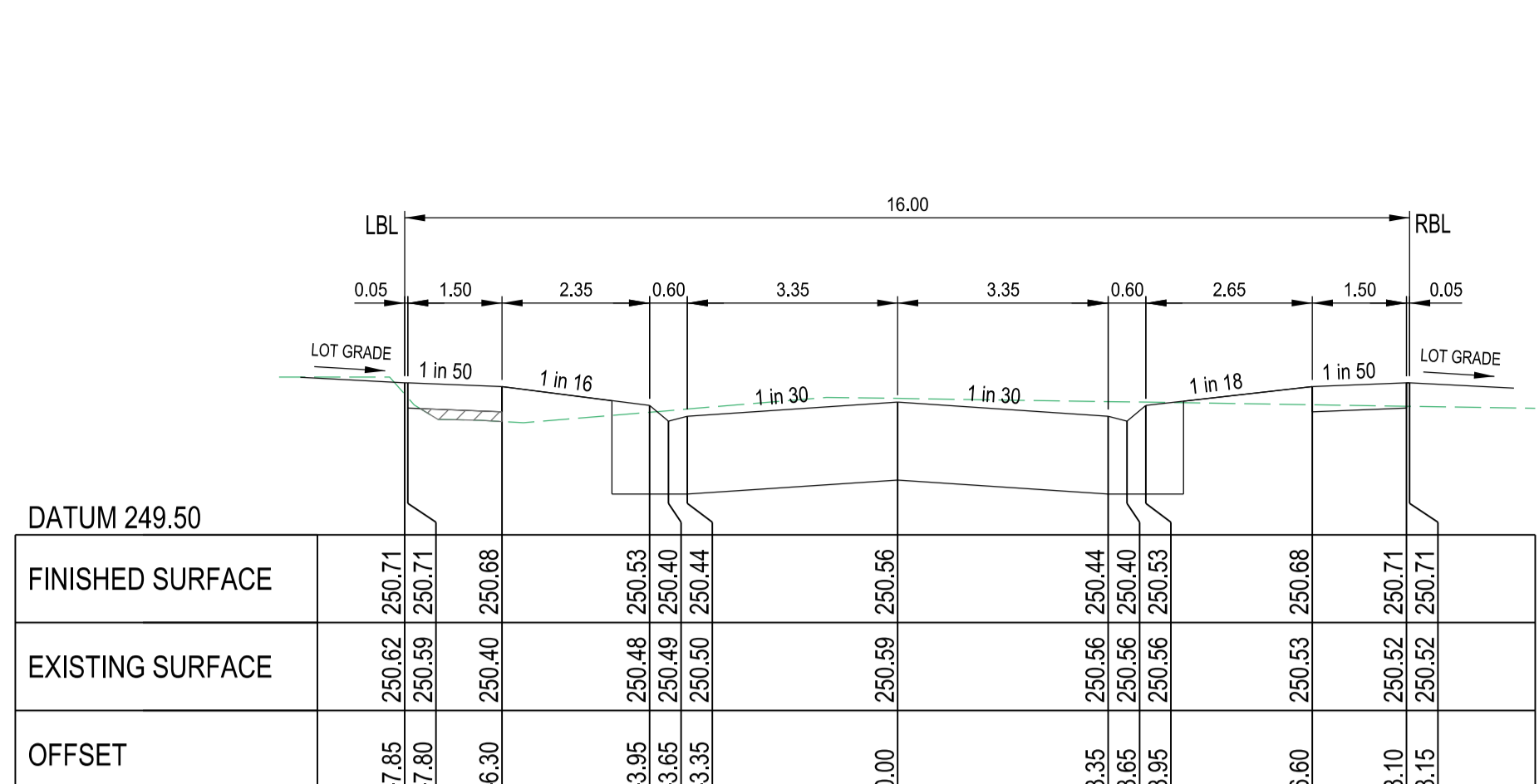


AMENDMENTS		breese pitt dixon pty. ltd. land surveyors civil engineers		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310					
MELWAY REF.	386-F-3	CLOVERTON ESTATE STAGE 328 LONGITUDINAL SECTIONS		MUNICIPALITY HUME REFERENCE 8460^E/328					
SURVEY	VERIS								
DESIGN	R.W.								
DRAWN	D.W.								
VER	DATE	REMARKS	CHECKED	A.K.	SCALE AS SHOWN	DATUM AHD	DATE AUG'22	SHEET 5 OF 16	P1

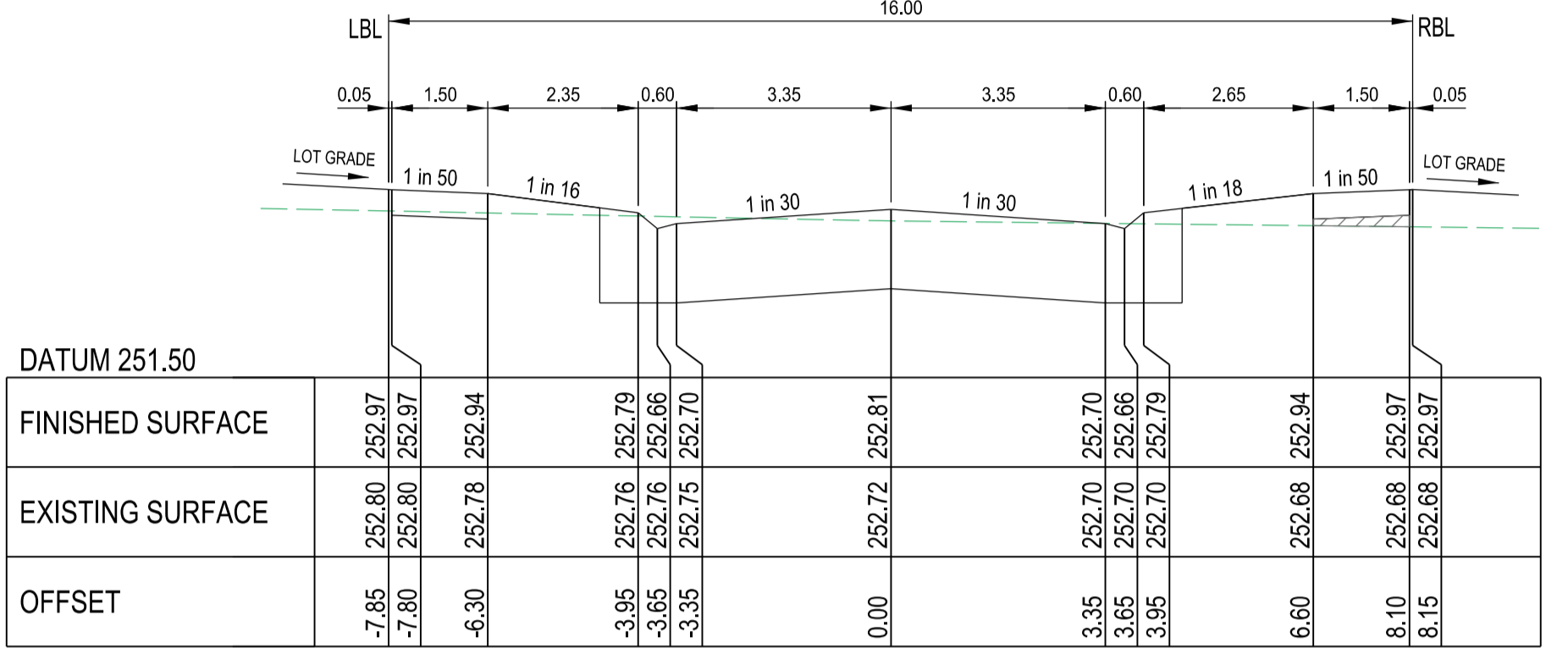
E:\Engineering\Breese Pitt Dixon\Cloverton\Stage 328\Cadd\E328.805.LS1.dgn



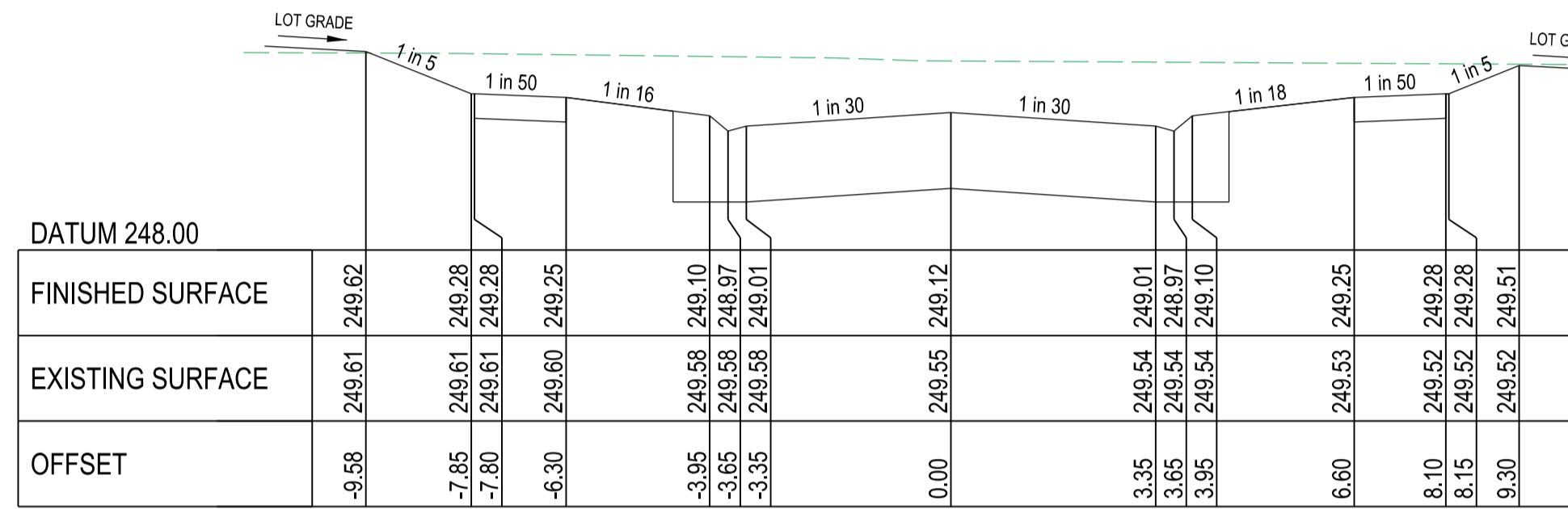
TITANIUM STREET Ch 68.20



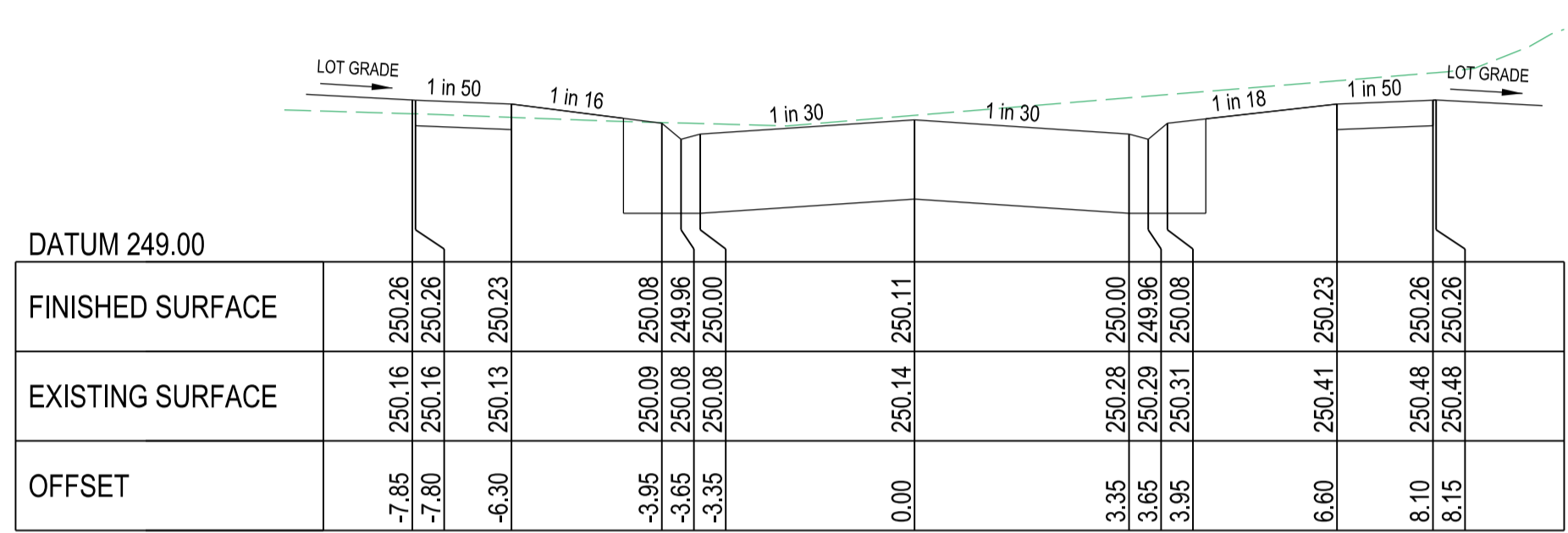
TITANIUM STREET Ch 119.70



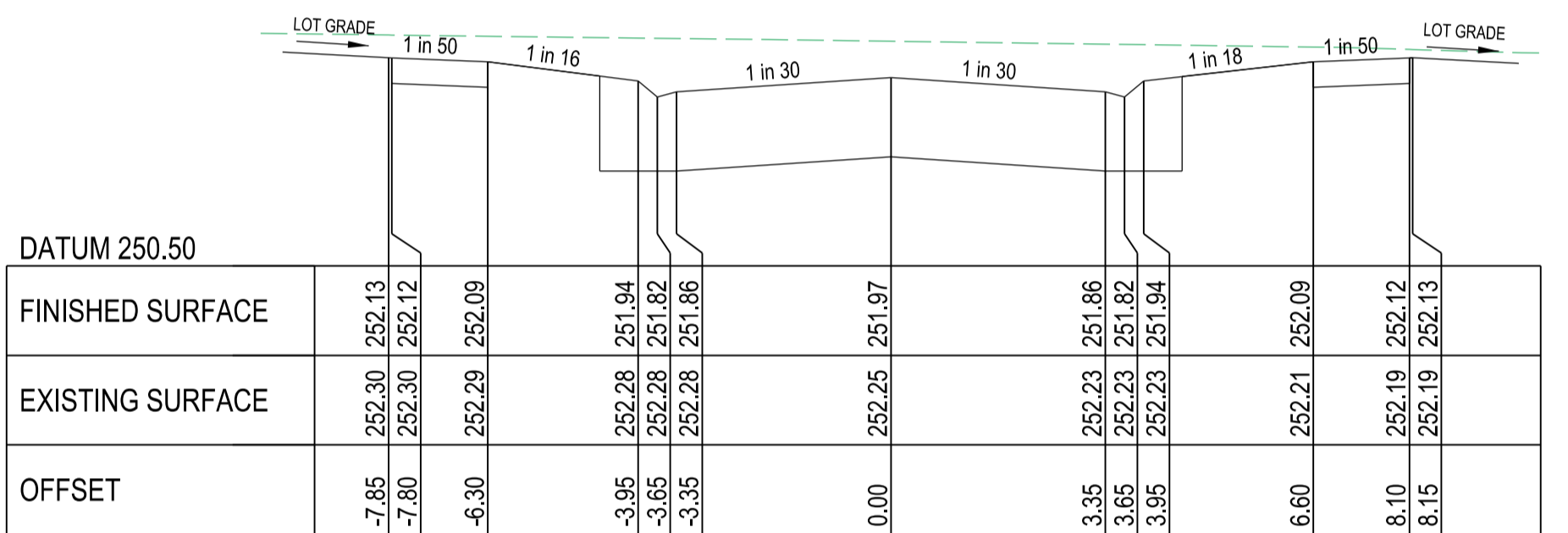
TITANIUM STREET Ch 216.10



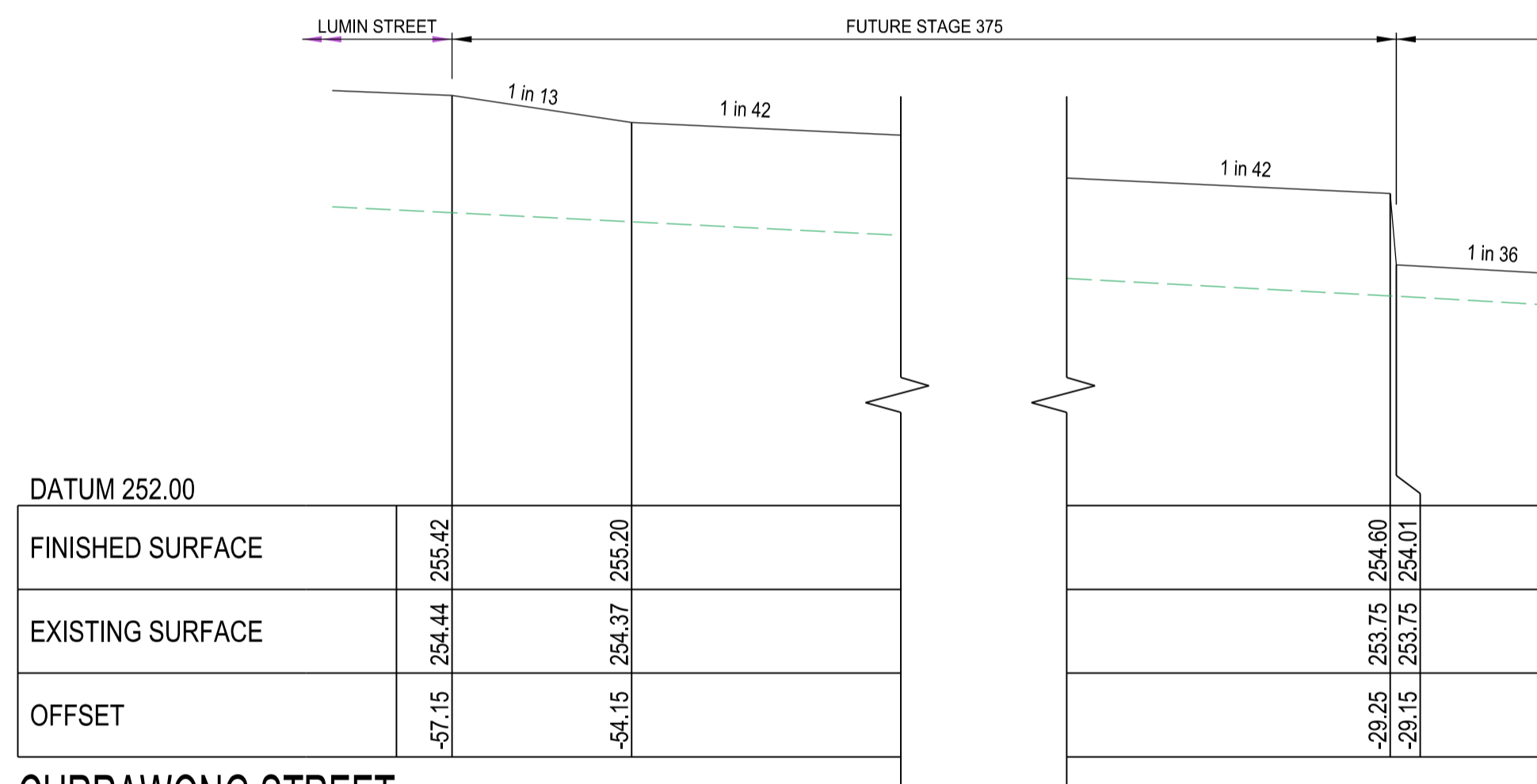
TITANIUM STREET Ch 46.20



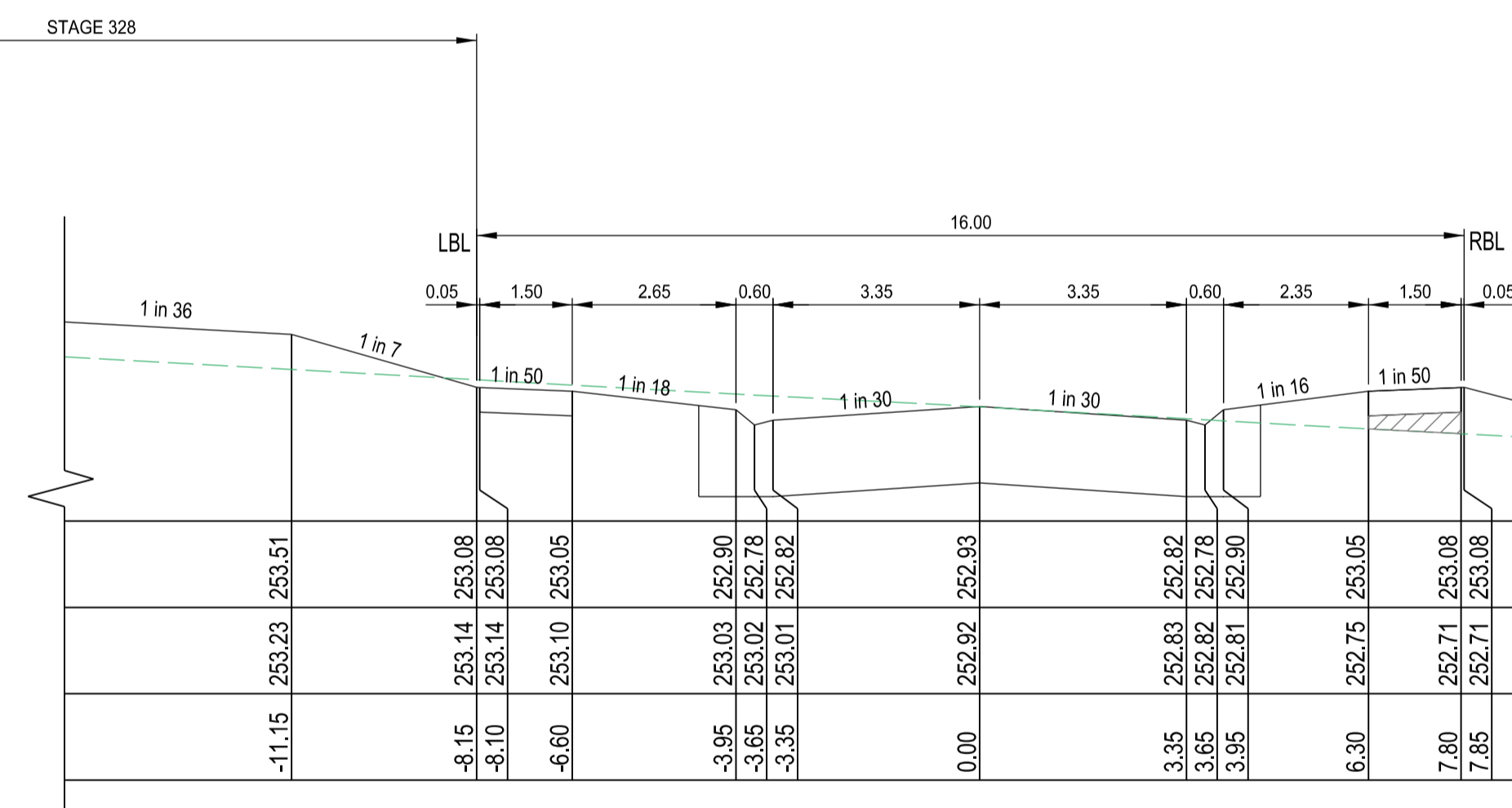
TITANIUM STREET Ch 94.70



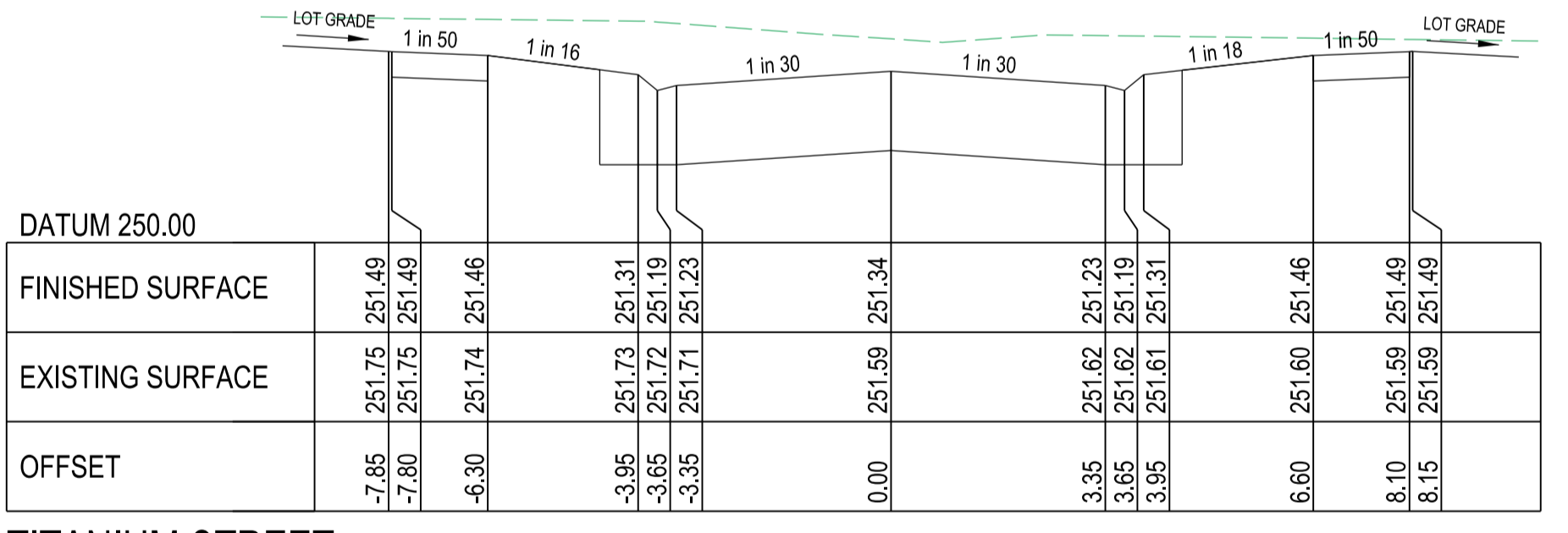
TITANIUM STREET Ch 192.20



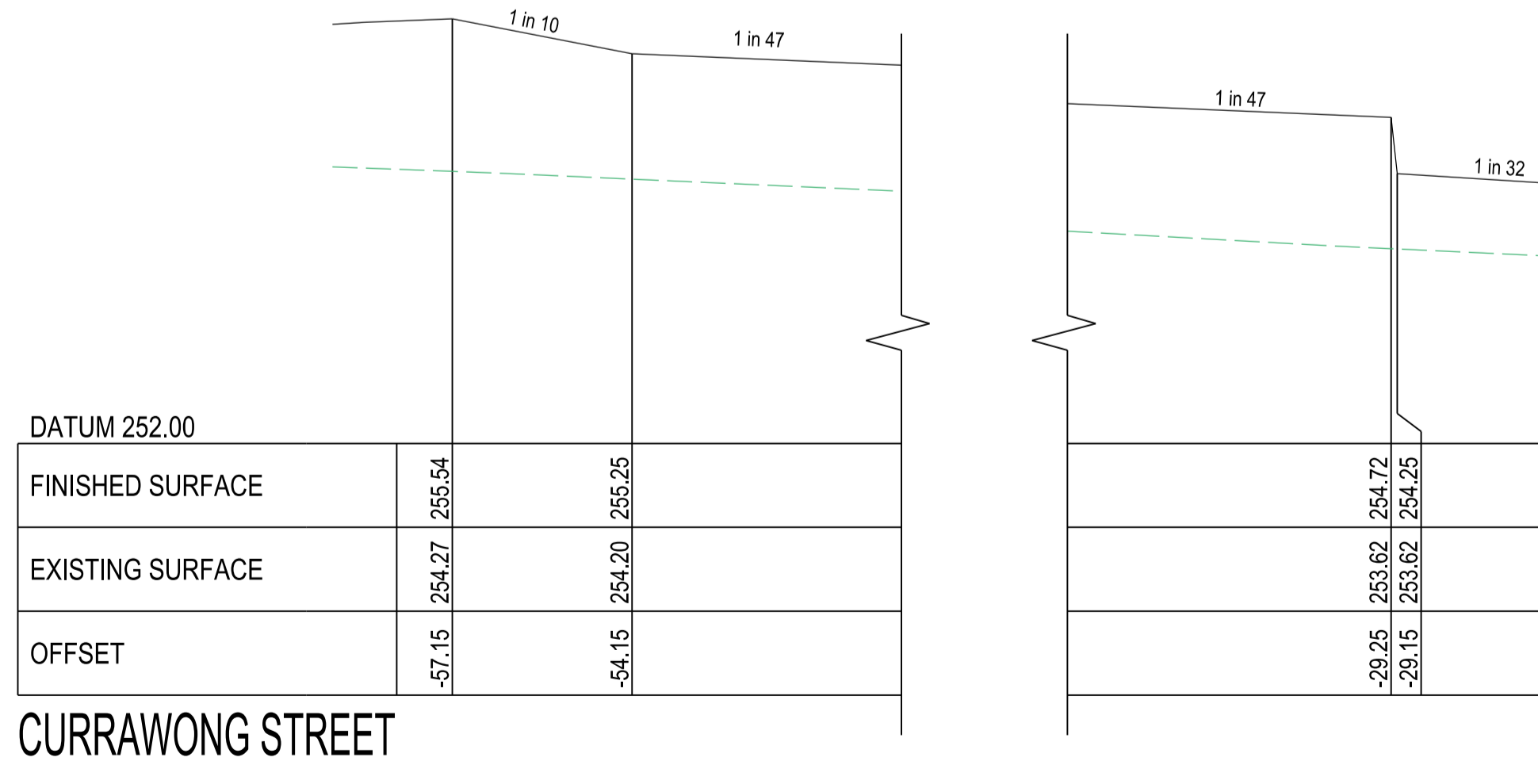
CURRAWONG STREET



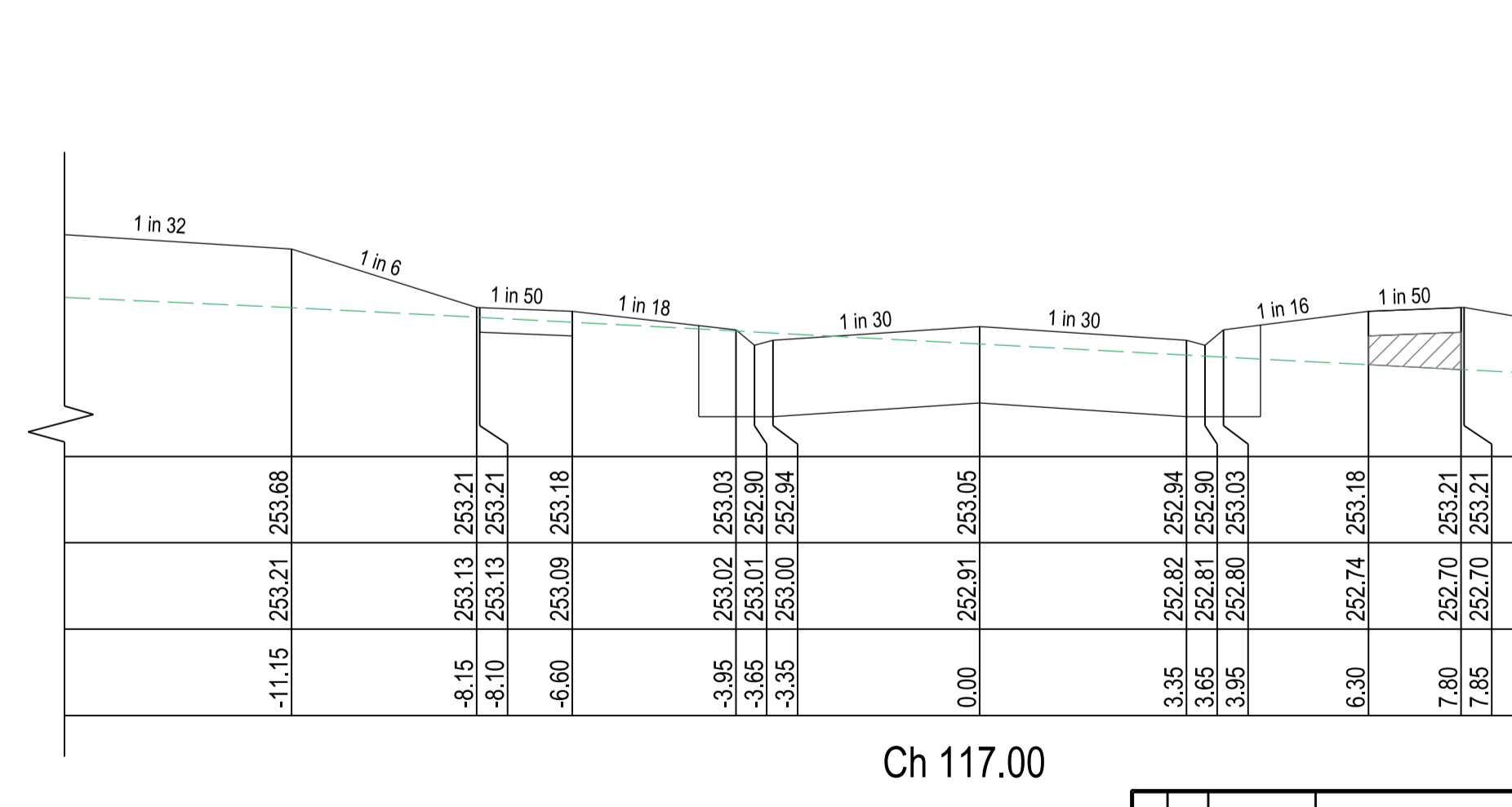
TITANIUM STREET Ch 141.90



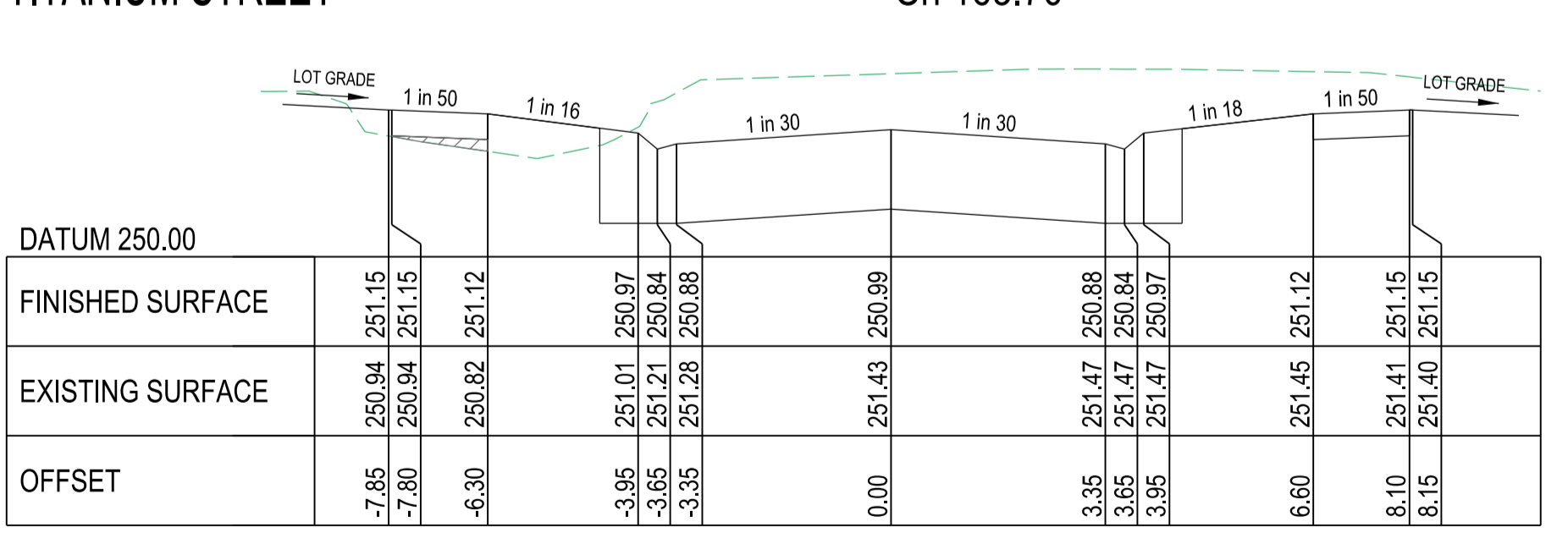
TITANIUM STREET Ch 163.70



CURRAWONG STREET



TITANIUM STREET Ch 117.00

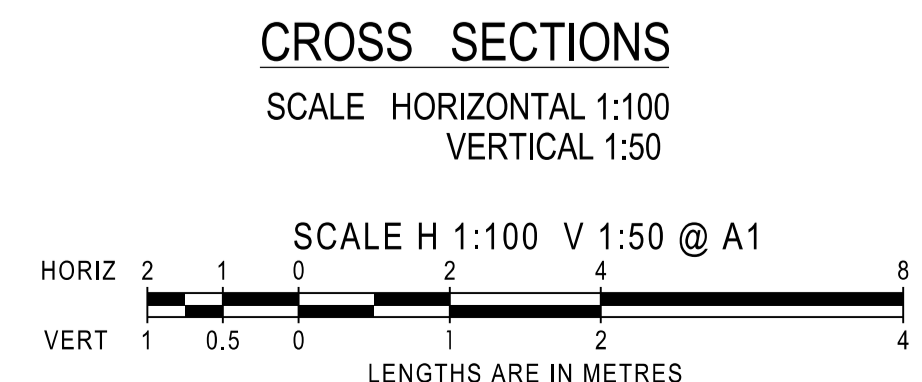


TITANIUM STREET Ch 144.20



INDICATES CRUSHED ROCK BACKFILL

ALLOTMENT GRADE NOTE
MINIMUM 1 IN 150 LOT GRADE INDICATED THUS;
ALLOTMENT BATTER NOTE
IF NOT SHOWN FOR CLARITY ALL BATTERS WITHIN ALLOTMENTS TO BE GRADE 1 IN 5. UNLESS NOTED OTHERWISE

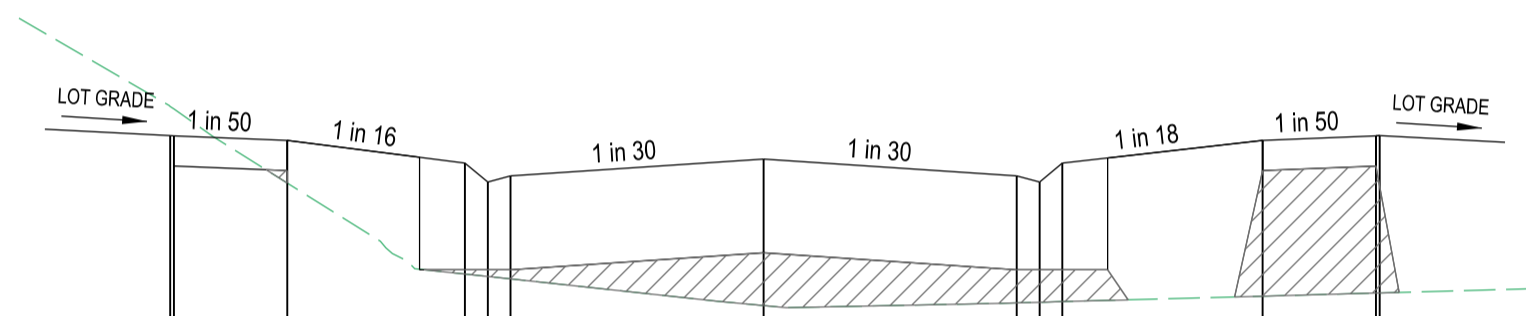


AMENDMENTS		breeze pitt dixon pty. ltd. land surveyors civil engineers		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
MELWAY REF.	386-F-3	CLOVERTON ESTATE STAGE 328 CROSS SECTIONS		MUNICIPALITY	
SURVEY	VERIS			HUME	
DESIGN	R.W.			REFERENCE	
DRAWN	D.W.			8460 E/328	
CHECKED	A.K.	SCALE	AS SHOWN	DATUM	AHD
DATE		DATE	AUG '22	SHEET	6 OF 16
REMARKS					P1



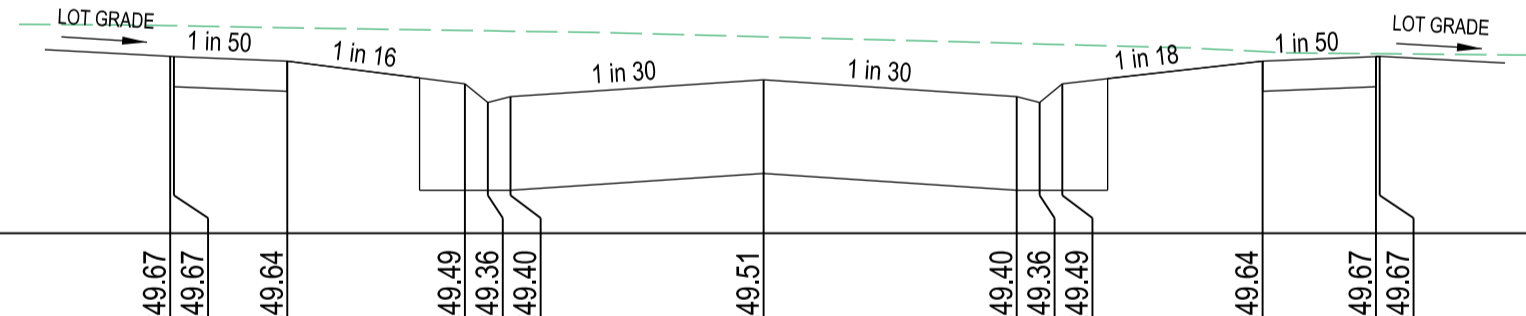
DATUM 248.50						
FINISHED SURFACE	-7.85	250.43	250.63	250.60	250.48	
EXISTING SURFACE	-7.80	250.43	250.63	250.37	250.37	
OFFSET	-6.30	250.25	250.60	0.00	249.30	250.48

MAGNESIUM ROAD Ch 128.20



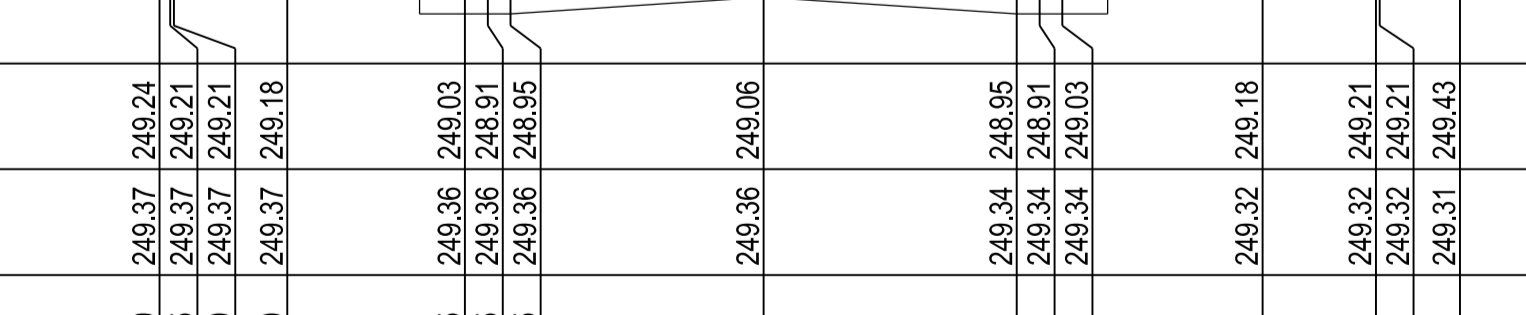
DATUM 248.50						
FINISHED SURFACE	-7.85	250.35	250.15	249.97	250.15	
EXISTING SURFACE	-7.80	250.33	250.15	249.89	250.15	
OFFSET	-6.30	249.84	250.12	0.00	249.03	250.00

MAGNESIUM ROAD Ch 101.70



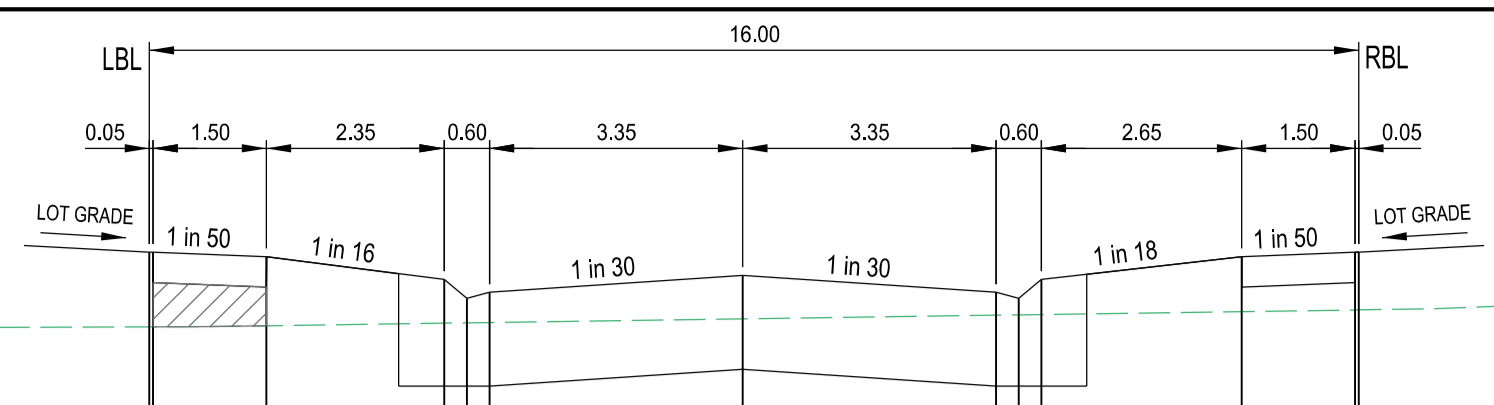
DATUM 248.50						
FINISHED SURFACE	-7.85	249.87	249.67	249.49	249.64	
EXISTING SURFACE	-7.80	249.87	249.67	249.36	249.40	
OFFSET	-6.30	249.86	249.64	0.00	249.80	249.51

MAGNESIUM ROAD Ch 75.20



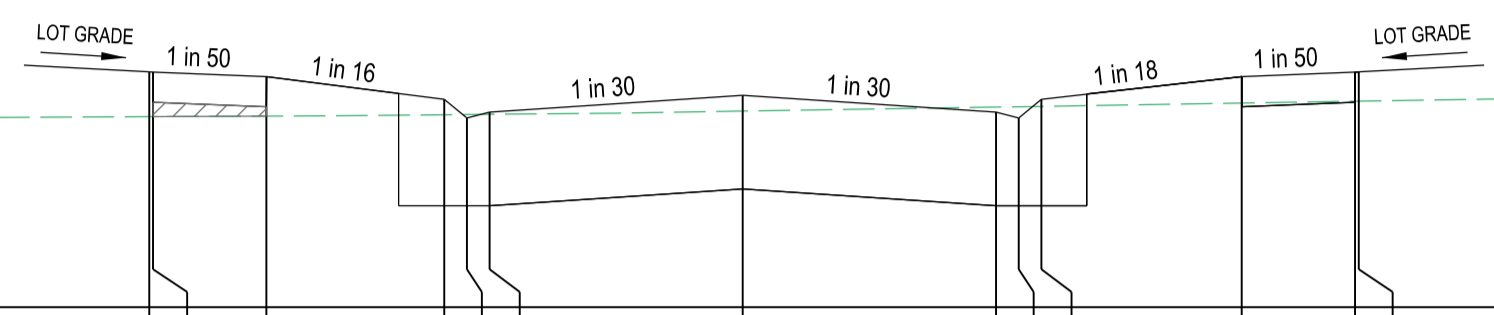
DATUM 248.00						
FINISHED SURFACE	-7.99	249.37	249.24	249.03	249.18	
EXISTING SURFACE	-7.85	249.37	249.21	248.91	249.21	
OFFSET	-6.30	249.37	249.21	0.00	249.36	249.06

MAGNESIUM ROAD Ch 50.20



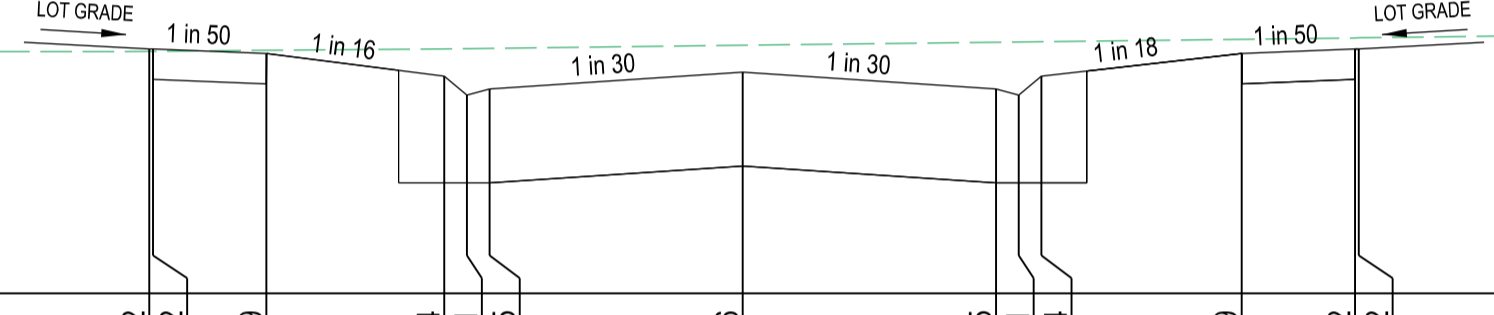
DATUM 253.00						
FINISHED SURFACE	-7.85	253.82	254.31	254.13	254.16	
EXISTING SURFACE	-7.80	253.82	254.31	254.04	254.04	
OFFSET	-6.30	253.82	254.28	0.00	253.87	254.16

MAGNESIUM ROAD Ch 259.20



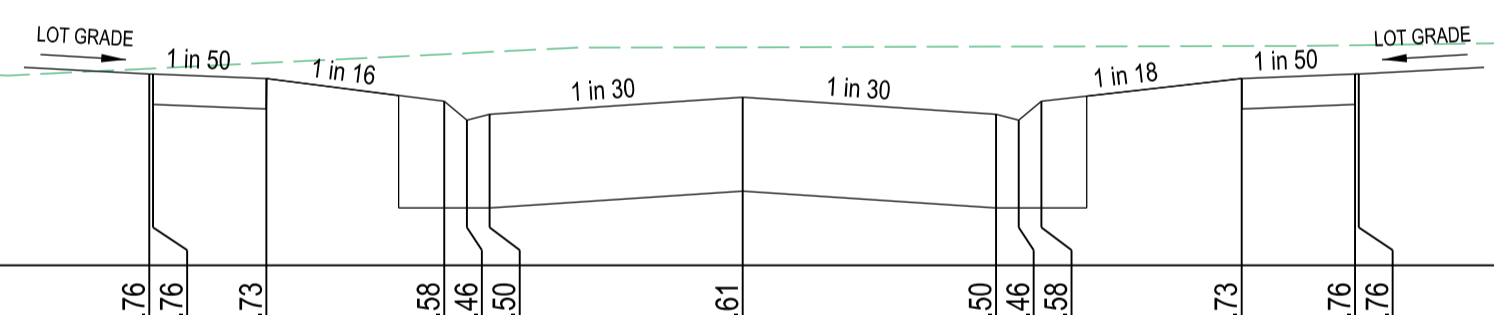
DATUM 252.00						
FINISHED SURFACE	-7.85	253.26	253.56	253.29	253.40	
EXISTING SURFACE	-7.80	253.26	253.56	253.25	253.25	
OFFSET	-6.30	253.26	253.52	0.00	253.30	253.40

MAGNESIUM ROAD Ch 240.00



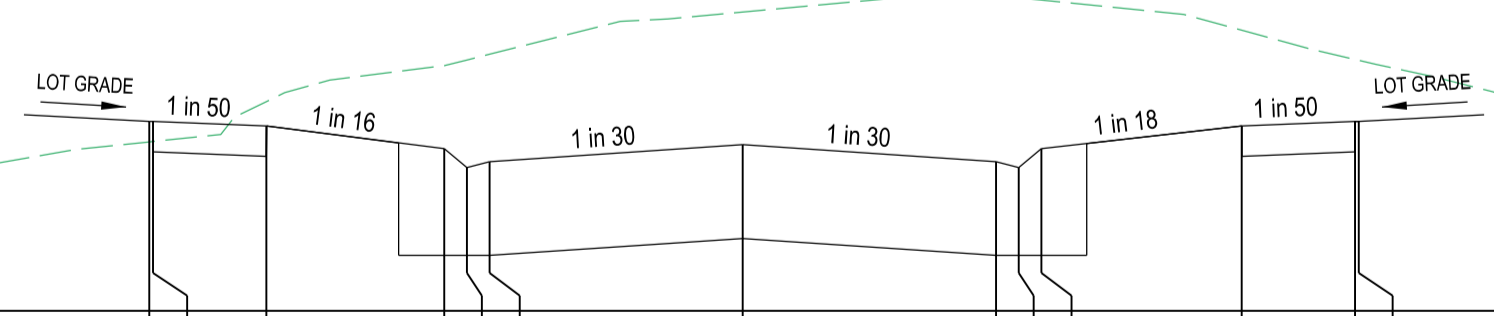
DATUM 251.00						
FINISHED SURFACE	-7.85	252.60	252.62	252.44	252.46	
EXISTING SURFACE	-7.80	252.60	252.62	252.31	252.31	
OFFSET	-6.30	252.61	252.59	0.00	252.64	252.46

MAGNESIUM ROAD Ch 216.10



DATUM 250.50						
FINISHED SURFACE	-7.85	251.80	251.76	251.58	251.61	
EXISTING SURFACE	-7.80	251.80	251.76	251.46	251.46	
OFFSET	-6.30	251.84	251.73	0.00	251.94	251.73

MAGNESIUM ROAD Ch 188.70

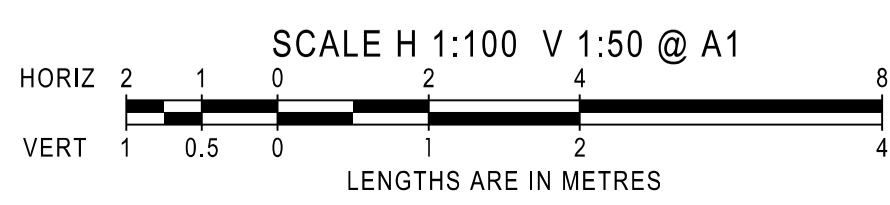


DATUM 250.00						
FINISHED SURFACE	-7.85	251.12	251.25	251.07	251.10	
EXISTING SURFACE	-7.80	251.12	251.25	250.99	250.99	
OFFSET	-6.30	251.38	251.22	0.00	251.97	251.10

MAGNESIUM ROAD Ch 162.20

INDICATES CRUSHED ROCK BACKFILL

CROSS SECTIONS
SCALE HORIZONTAL 1:100
VERTICAL 1:50



ALLOTMENT GRADE NOTE
MINIMUM 1 IN 150 LOT GRADE
INDICATED THUS: LOT GRADE

ALLOTMENT BATTER NOTE
IF NOT SHOWN FOR CLARITY
ALL BATTERS WITHIN ALLOTMENTS
TO BE GRADE 1 IN 5.
UNLESS NOTED OTHERWISE

AMENDMENTS	DATE	REMARKS

breese pitt dixon pty. ltd.
land surveyors civil engineers

MELWAY REF. 386-F-3
SURVEY VERIS
DESIGN R.W.
DRAWN D.W.
CHECKED A.K.

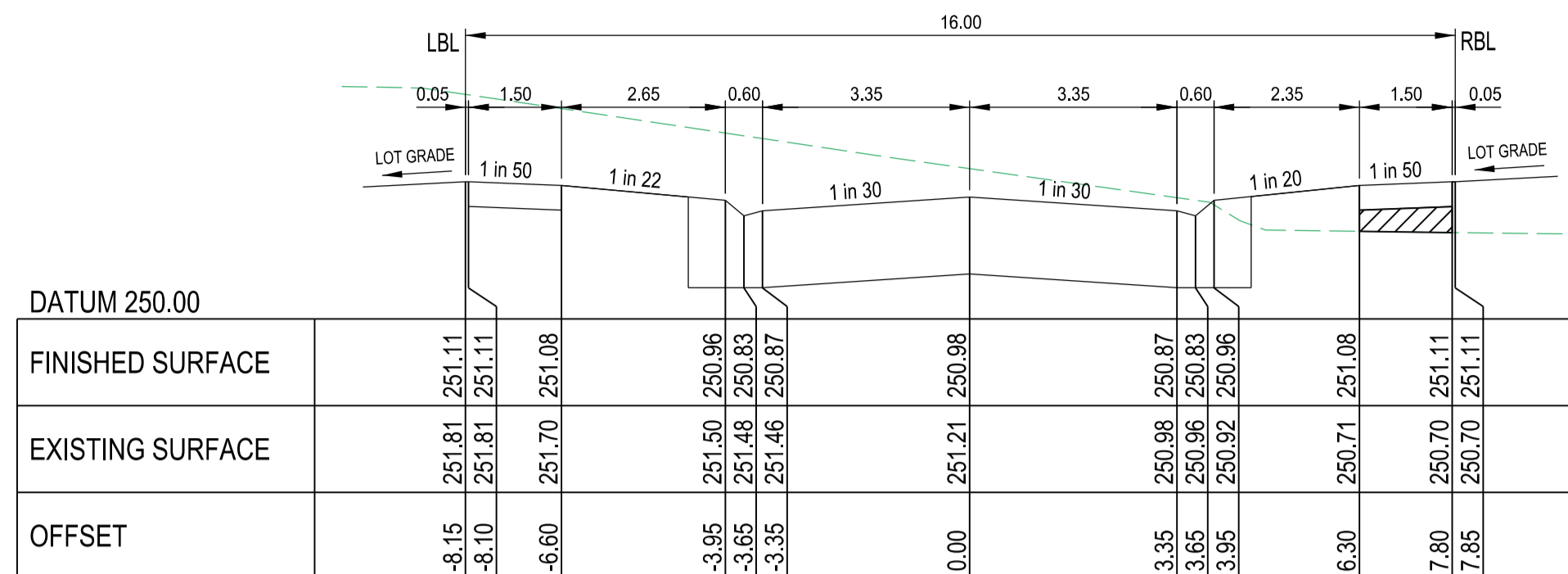
**CLOVERTON ESTATE
STAGE 328
CROSS SECTIONS**

MUNICIPALITY
HUME
REFERENCE
8460^E/328

1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

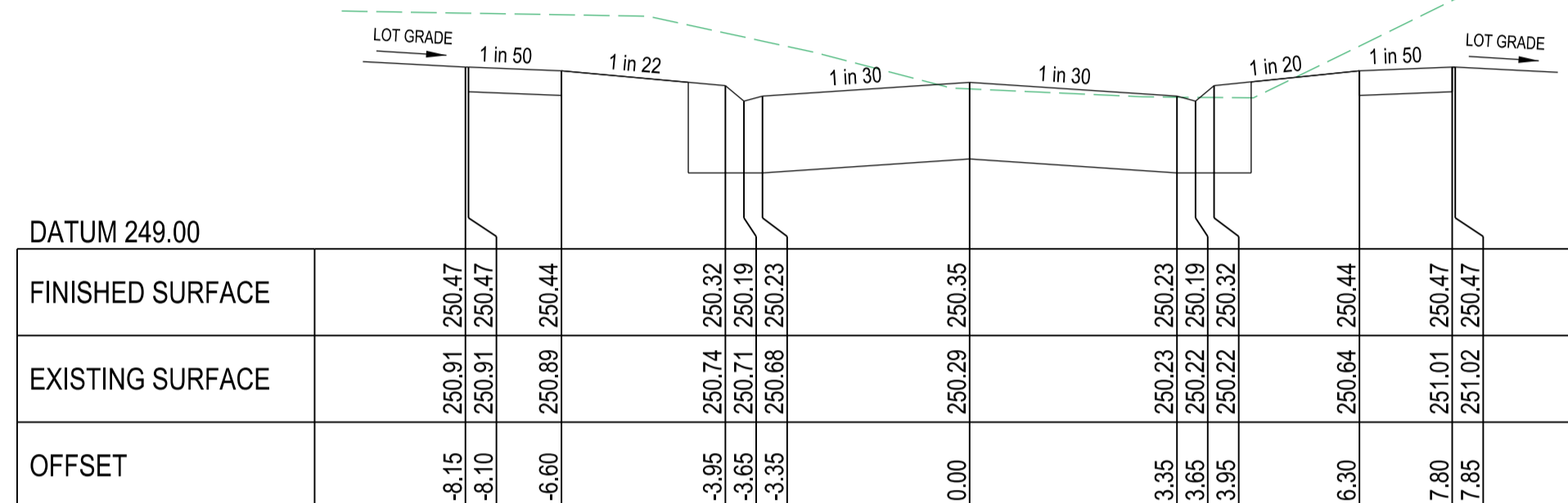
SCALE AS SHOWN DATUM AHD DATE AUG'22 SHEET 8 OF 16 P1

E:\Engineering\Breese Pitt Dixon\Cloverton\Stage 328\Cadd\E328_808_CS1.dgn



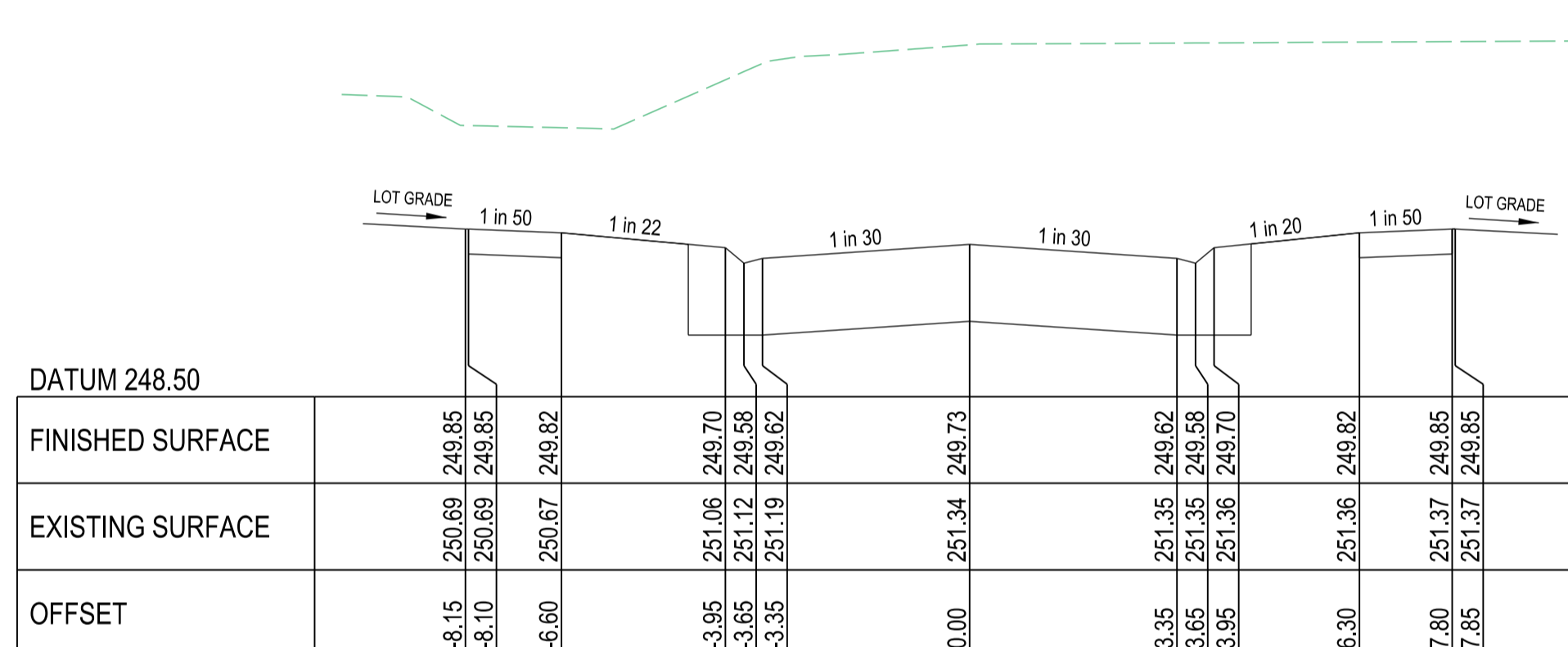
STILT STREET

Ch 328.44



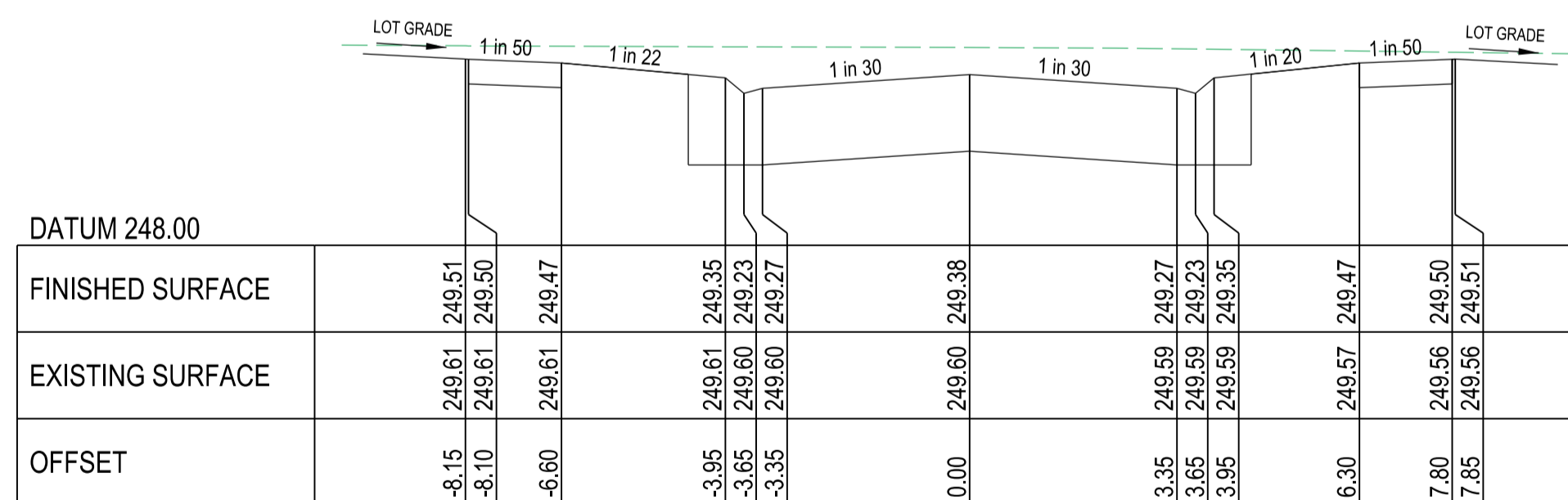
STILT STREET

Ch 305.44



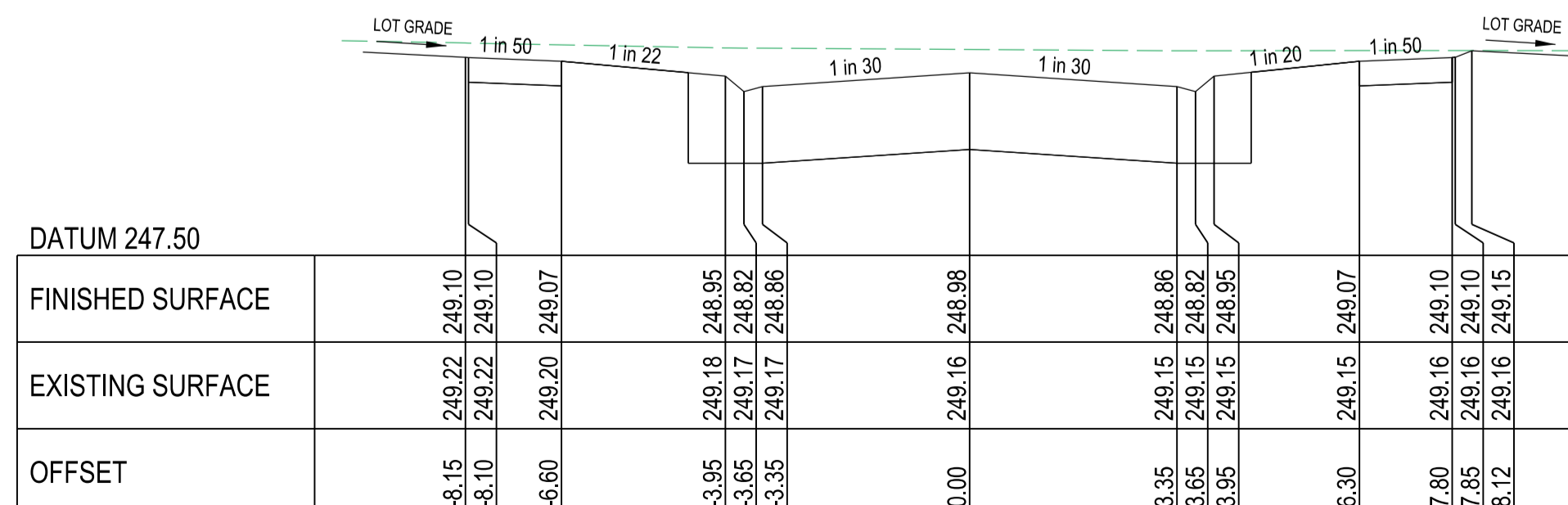
STILT STREET

Ch 278.94



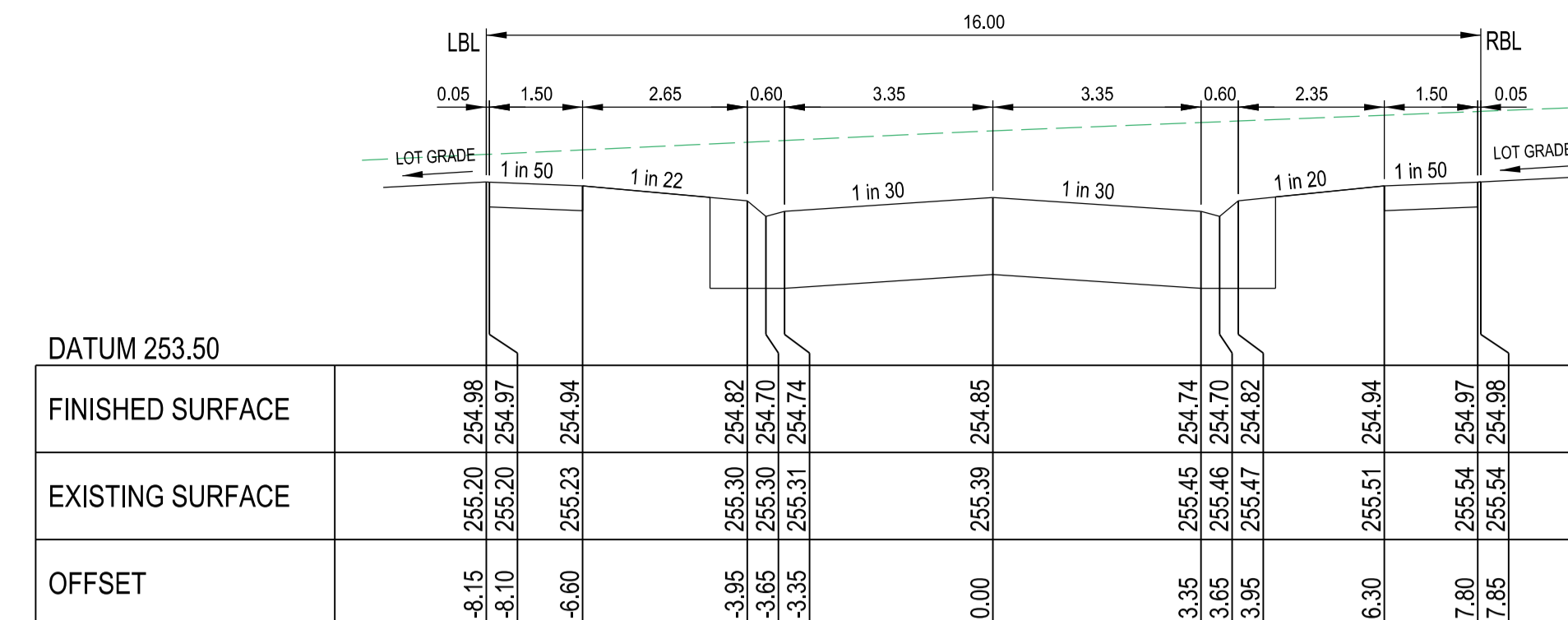
STILT STREET

Ch 257.94



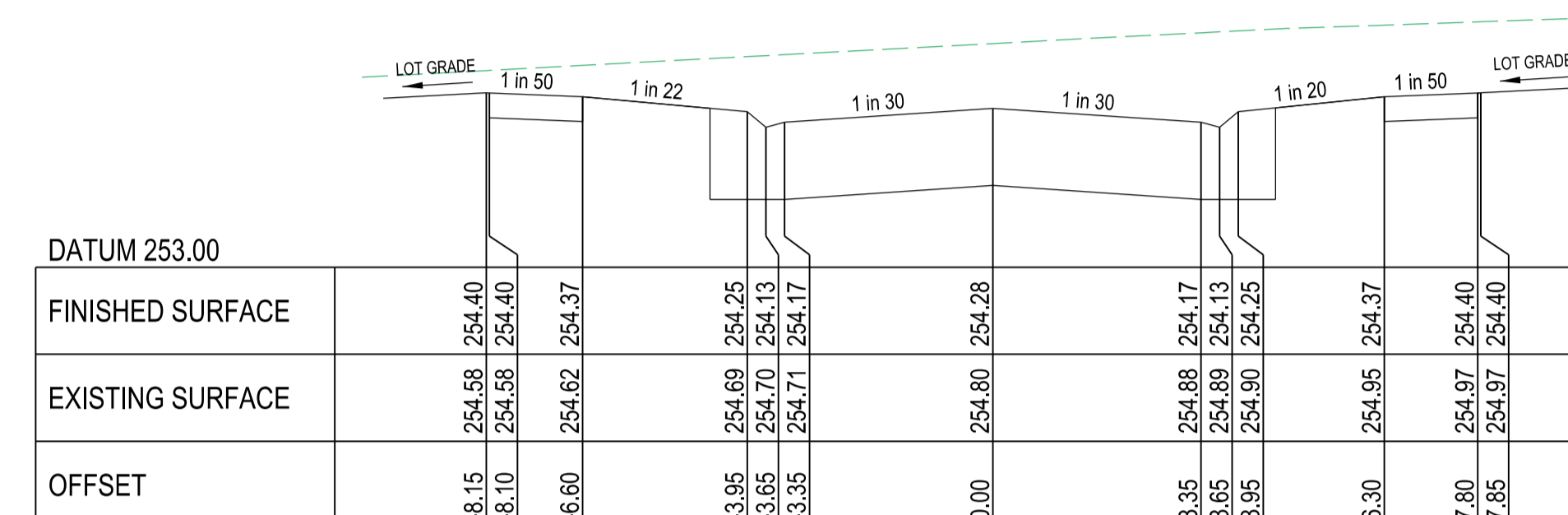
STILT STREET

Ch 233.44



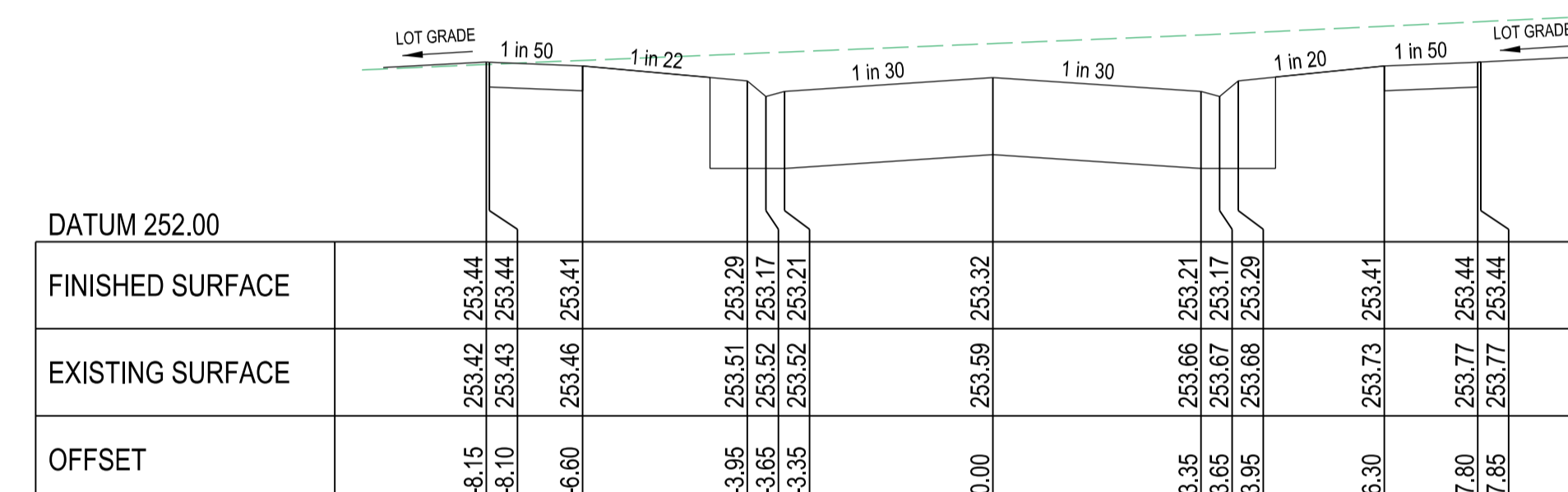
STILT STREET

Ch 442.44



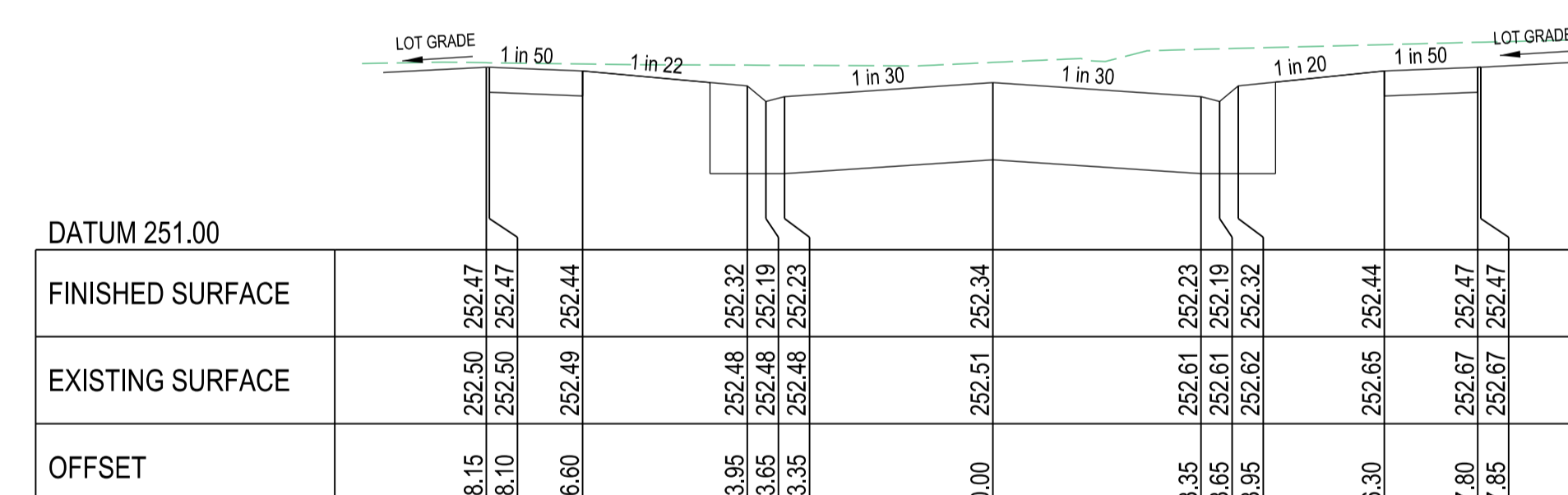
STILT STREET

Ch 427.44



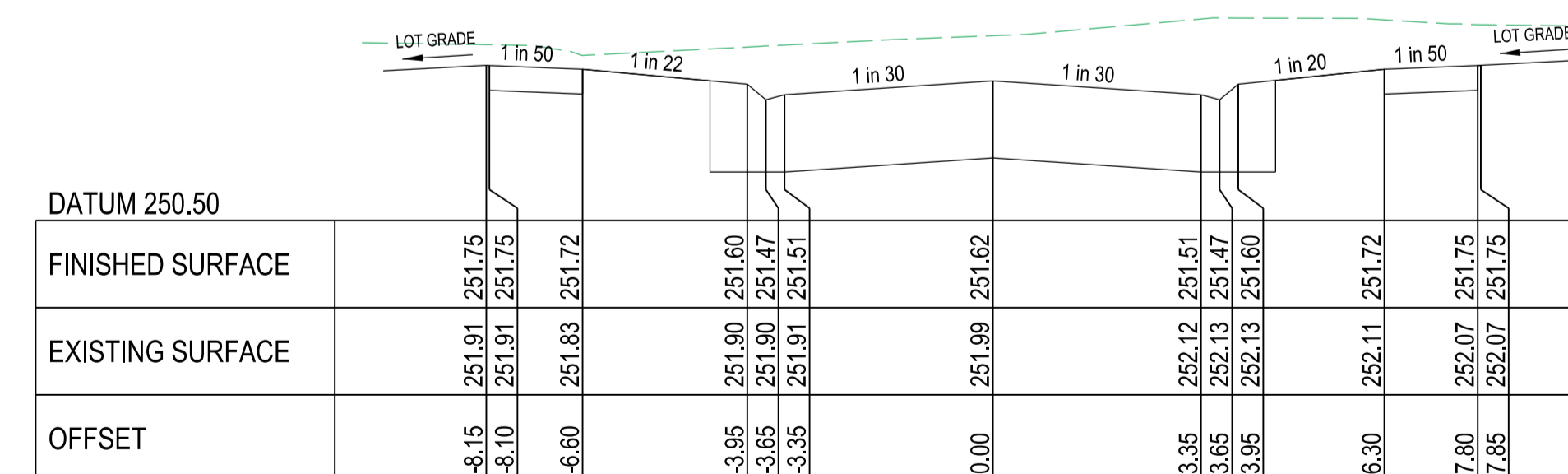
STILT STREET

Ch 402.44



STILT STREET

Ch 375.94



STILT STREET

Ch 351.44

ALLOTMENT GRADE NOTE

MINIMUM 1 IN 150 LOT GRADE INDICATED THUS:

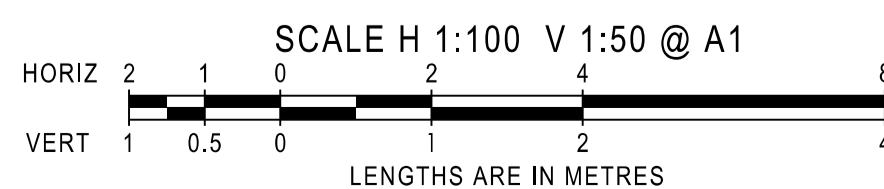
ALLOTMENT BATTER NOTE

IF NOT SHOWN FOR CLARITY ALL BATTERS WITHIN ALLOTMENTS TO BE GRADE 1 IN 5, UNLESS NOTED OTHERWISE

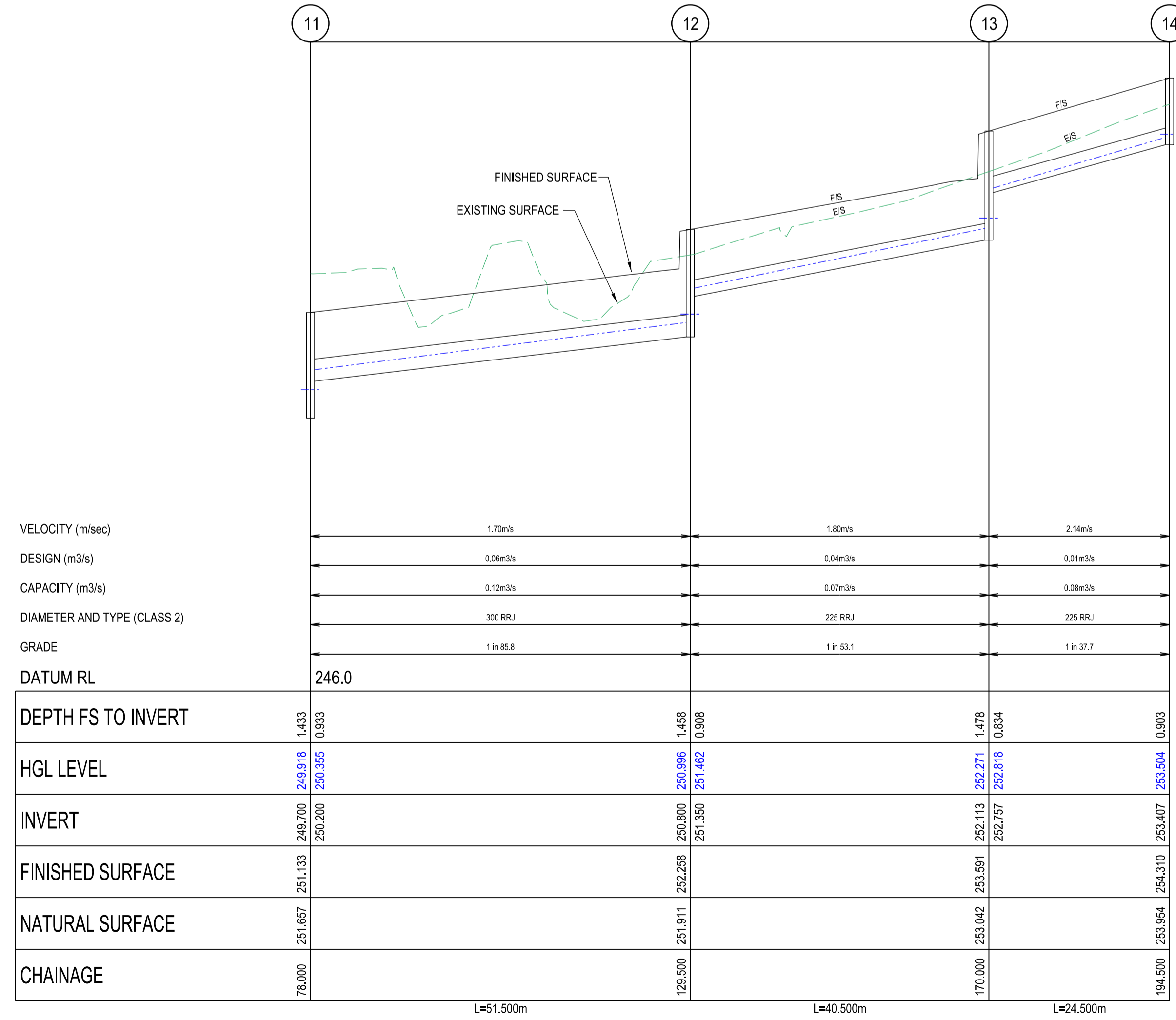
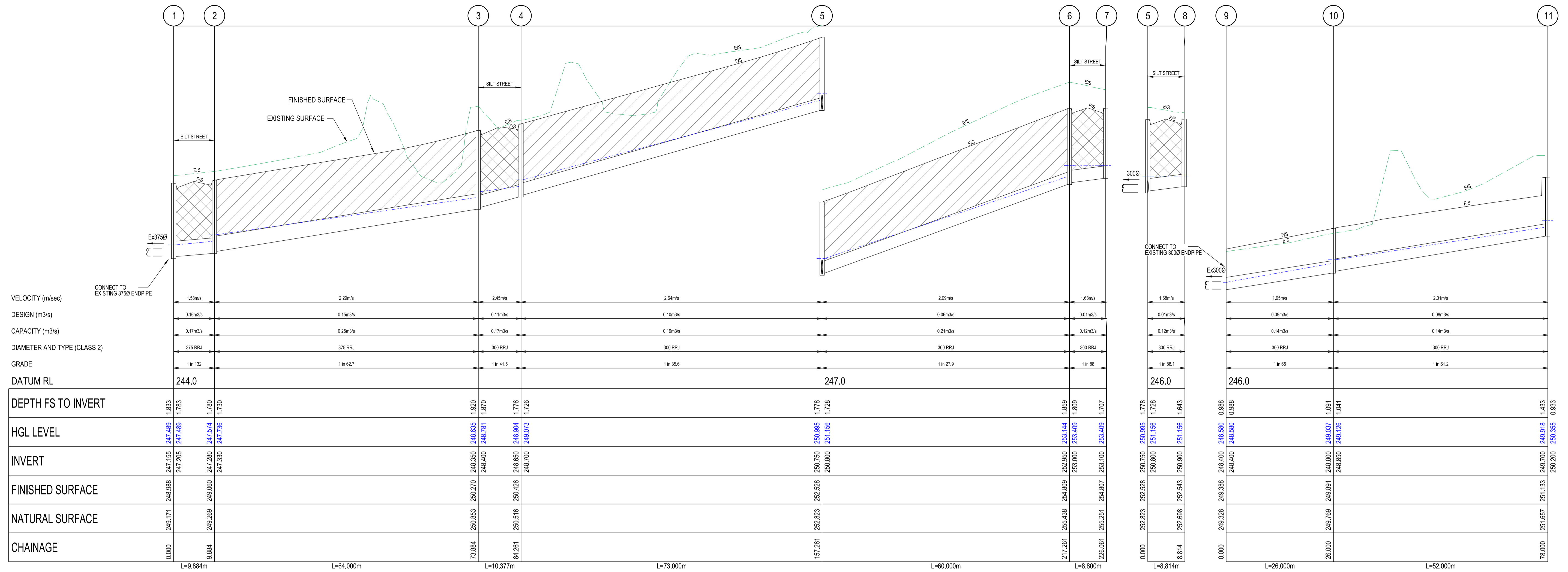
INDICATES CRUSHED ROCK BACKFILL

CROSS SECTIONS

SCALE HORIZONTAL 1:100 VERTICAL 1:50



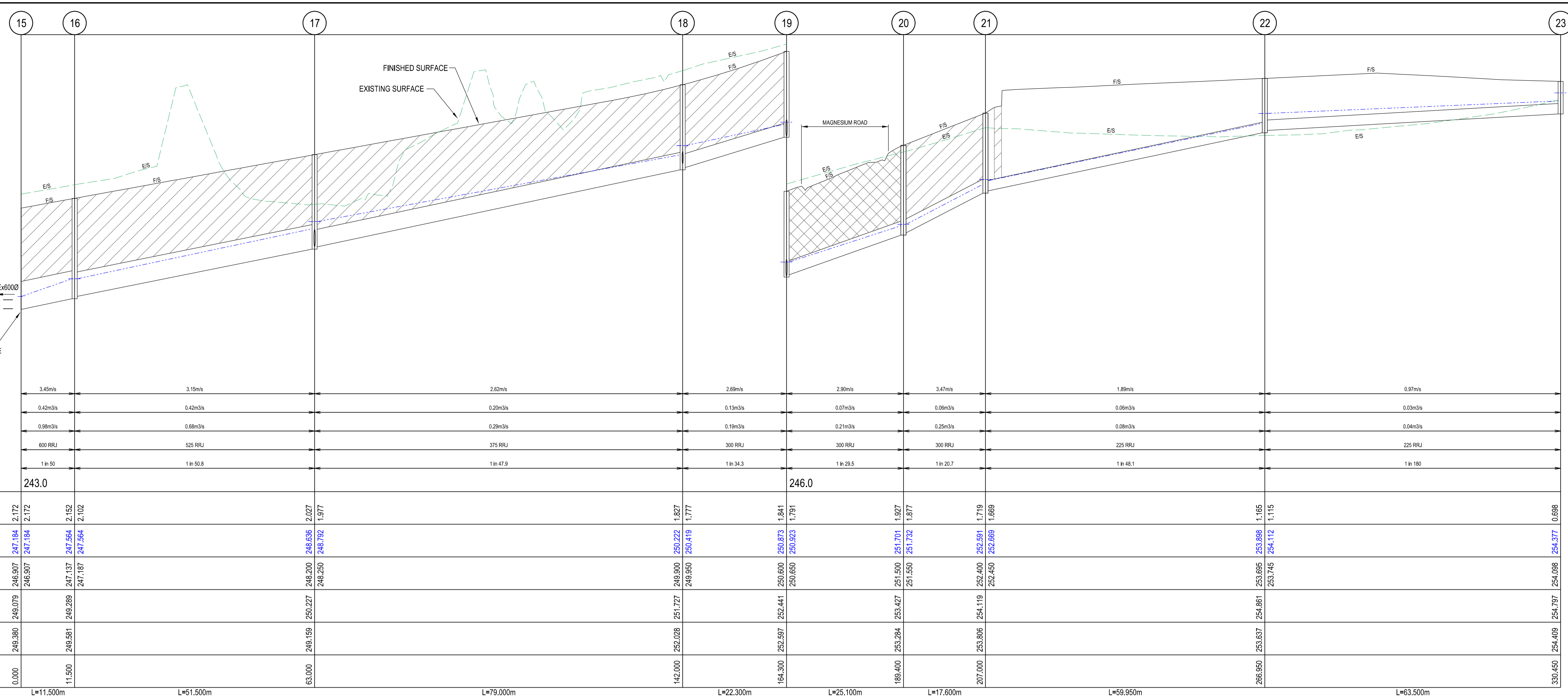
AMENDMENTS		breese pitt dixon pty. ltd. land surveyors civil engineers		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
MELWAY REF. 386-F-3		CLOVERTON ESTATE STAGE 328 CROSS SECTIONS		MUNICIPALITY	
SURVEY VERIS				HUME	
DESIGN R.W.				REFERENCE	
DRAWN D.W.				8460 E/328	
VER	DATE	REMARKS	CHECKED A.K.	SCALE AS SHOWN	DATUM AHD
					DATE AUG'22
			SHEET 9 OF 16		P1



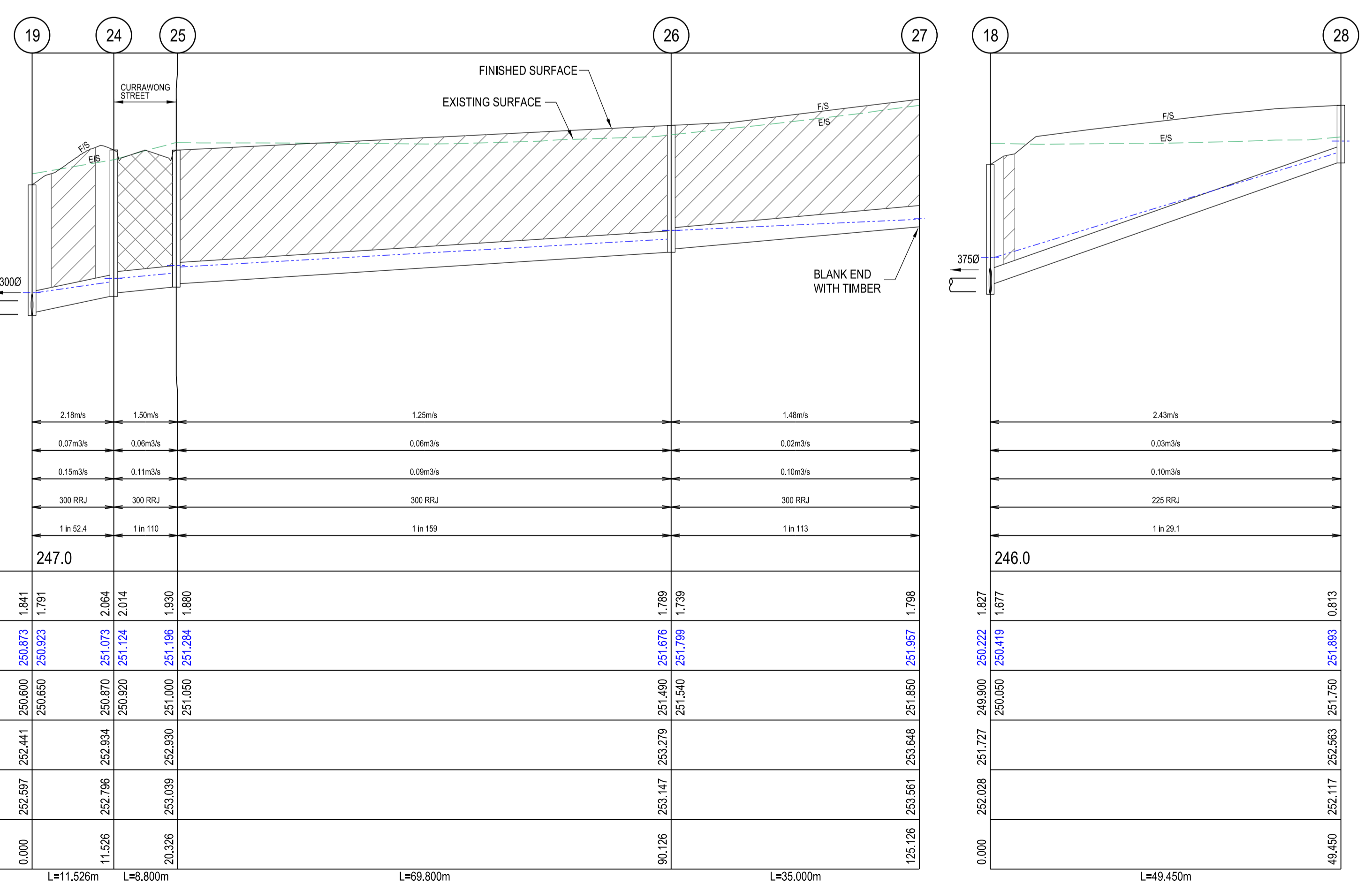
INDICATES CLASS 2 CRUSHED ROCK BACKFILL
 INDICATES CLASS 3 CRUSHED ROCK BACKFILL
 INDICATES 5YR HGL

DRAINAGE LONGITUDINAL SECTIONS
 SCALE HORIZONTAL 1:500
 VERTICAL 1:50
 SCALE H 1:500 V 1:50 @ A1
 HORIZ 10 5 0 10 20 40
 VERT 1 0.5 0 1 2 4
 LENGTHS ARE IN METRES

AMENDMENTS		breese pitt dixon pty. ltd. land surveyors civil engineers 1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	CLOVERTON ESTATE STAGE 328 DRAINAGE LONG SECTIONS	MUNICIPALITY HUME REFERENCE 8460 E/328									
VER	DATE	REMARKS	CHECKED	A.K.	SCALE	AS SHOWN	DATUM	AHD	DATE	AUG'22	SHEET	10 OF 16	P1



VELOCITY (m/sec)	3.45m/s	3.15m/s	2.62m/s	2.69m/s	2.80m/s	3.47m/s	1.89m/s	0.97m/s
DESIGN (m ³ /s)	0.42m ³ /s	0.42m ³ /s	0.20m ³ /s	0.13m ³ /s	0.07m ³ /s	0.06m ³ /s	0.06m ³ /s	0.03m ³ /s
CAPACITY (m ³ /s)	0.58m ³ /s	0.58m ³ /s	0.29m ³ /s	0.19m ³ /s	0.21m ³ /s	0.25m ³ /s	0.08m ³ /s	0.04m ³ /s
DIAMETER AND TYPE (CLASS 2)	800 RRJ	525 RRJ	375 RRJ	300 RRJ	300 RRJ	300 RRJ	225 RRJ	225 RRJ
GRADE	1 in 50	1 in 50.8	1 in 47.9	1 in 34.3	1 in 28.5	1 in 20.7	1 in 48.1	1 in 180
DATUM RL	243.0		246.0					
DEPTH FS TO INVERT	2.172	2.172	2.027	1.977	1.827	1.777	1.841	1.791
HGL LEVEL	247.184	247.184	246.636	246.732	250.222	250.419	251.701	251.732
INVERT	245.007	245.007	244.200	244.250	249.900	249.900	251.500	251.550
FINISHED SURFACE	249.079	249.079	250.227	250.227	251.727	251.727	253.427	253.427
NATURAL SURFACE	249.380	249.581	249.159	249.028	252.028	252.028	253.284	253.284
CHAINAGE	0.000	11.500	63.000	142.000	164.300	189.400	207.000	266.950
	L=11.500m	L=51.500m	L=79.000m	L=22.300m	L=25.100m	L=17.600m	L=59.950m	L=63.500m

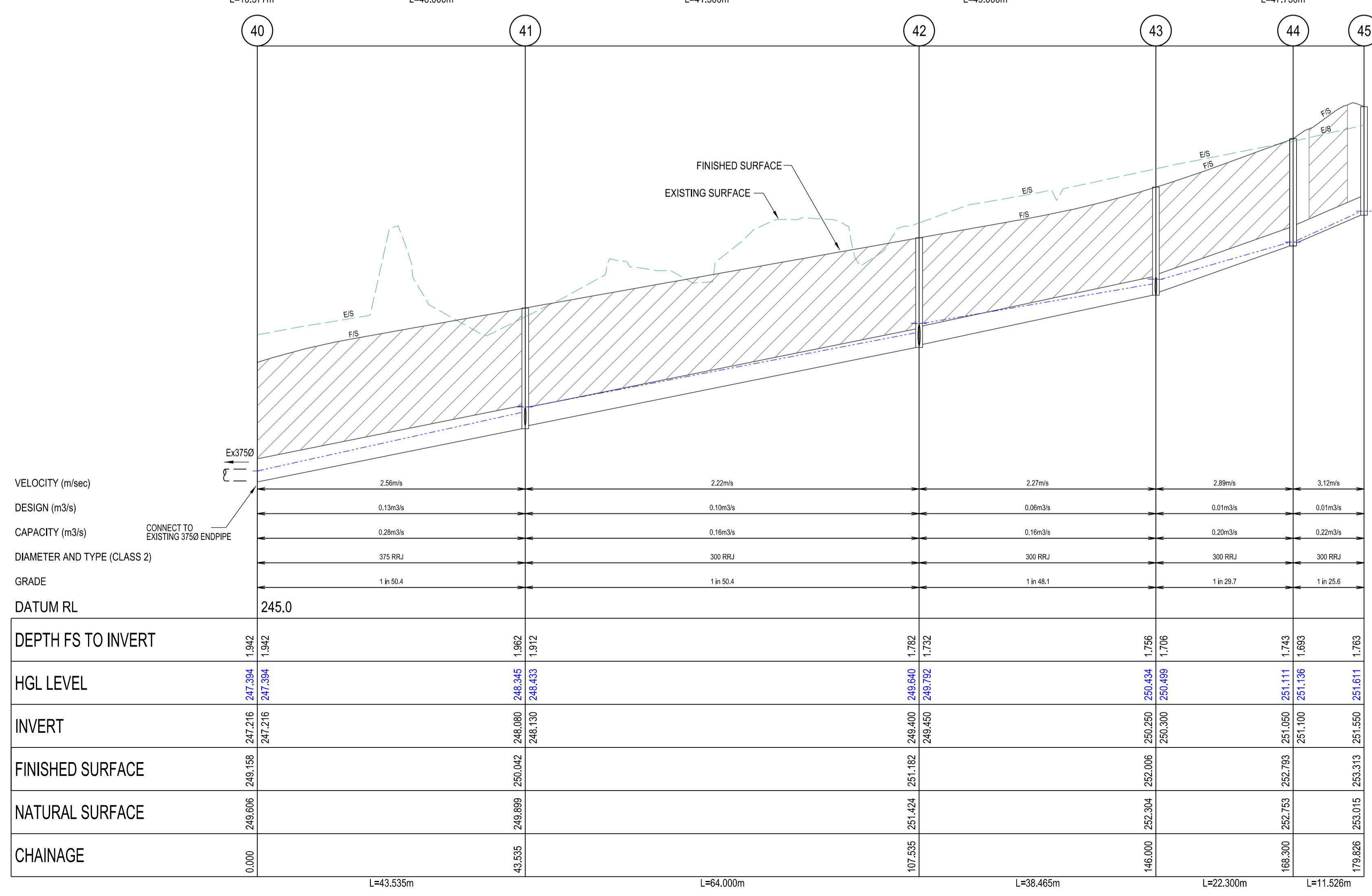
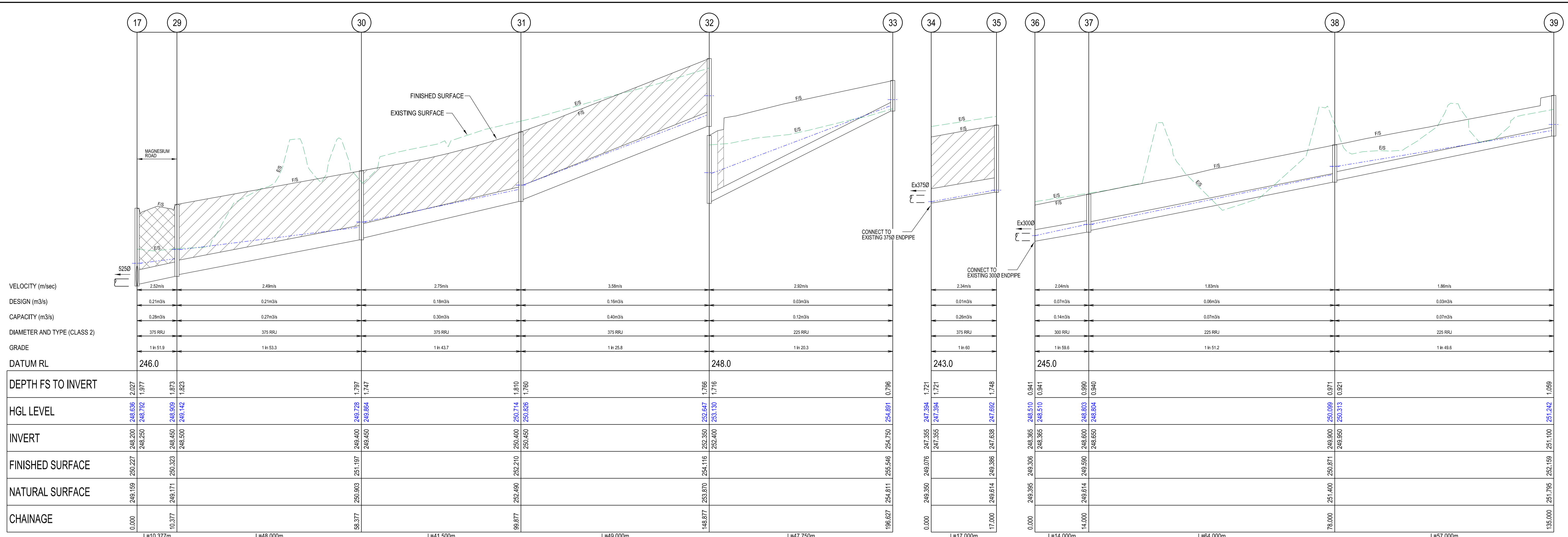


VELOCITY (m/sec)	2.18m/s	1.50m/s	1.25m/s	1.48m/s	2.43m/s	
DESIGN (m ³ /s)	0.07m ³ /s	0.06m ³ /s	0.06m ³ /s	0.02m ³ /s	0.03m ³ /s	
CAPACITY (m ³ /s)	0.15m ³ /s	0.11m ³ /s	0.09m ³ /s	0.10m ³ /s	0.10m ³ /s	
DIAMETER AND TYPE (CLASS 2)	300 RRJ	300 RRJ	300 RRJ	300 RRJ	225 RRJ	
GRADE	1 in 52.4	1 in 110	1 in 159	1 in 113	1 in 28.1	
DATUM RL	247.0					246.0
DEPTH FS TO INVERT	1.841	1.791	2.064	1.789	1.739	
HGL LEVEL	250.873	250.923	251.073	251.124	251.676	
INVERT	250.032	250.134	250.870	250.920	251.490	
FINISHED SURFACE	252.441	252.934	252.934	253.279	251.540	
NATURAL SURFACE	252.597	252.796	252.796	253.147	253.039	
CHAINAGE	0.000	11.526	20.326	90.126	125.126	
	L=11.526m	L=8.800m	L=69.800m	L=35.000m	L=49.450m	

INDICATES CLASS 2 CRUSHED ROCK BACKFILL
 INDICATES CLASS 3 CRUSHED ROCK BACKFILL
 INDICATES 5YR HGL

DRAINAGE LONGITUDINAL SECTIONS
 SCALE HORIZONTAL 1:500
 VERTICAL 1:50
 SCALE H 1:500 V 1:50 @ A1
 HORIZ 10 5 0 10 20 40
 VERT 1 0.5 0 1 2 4
 LENGTHS ARE IN METRES

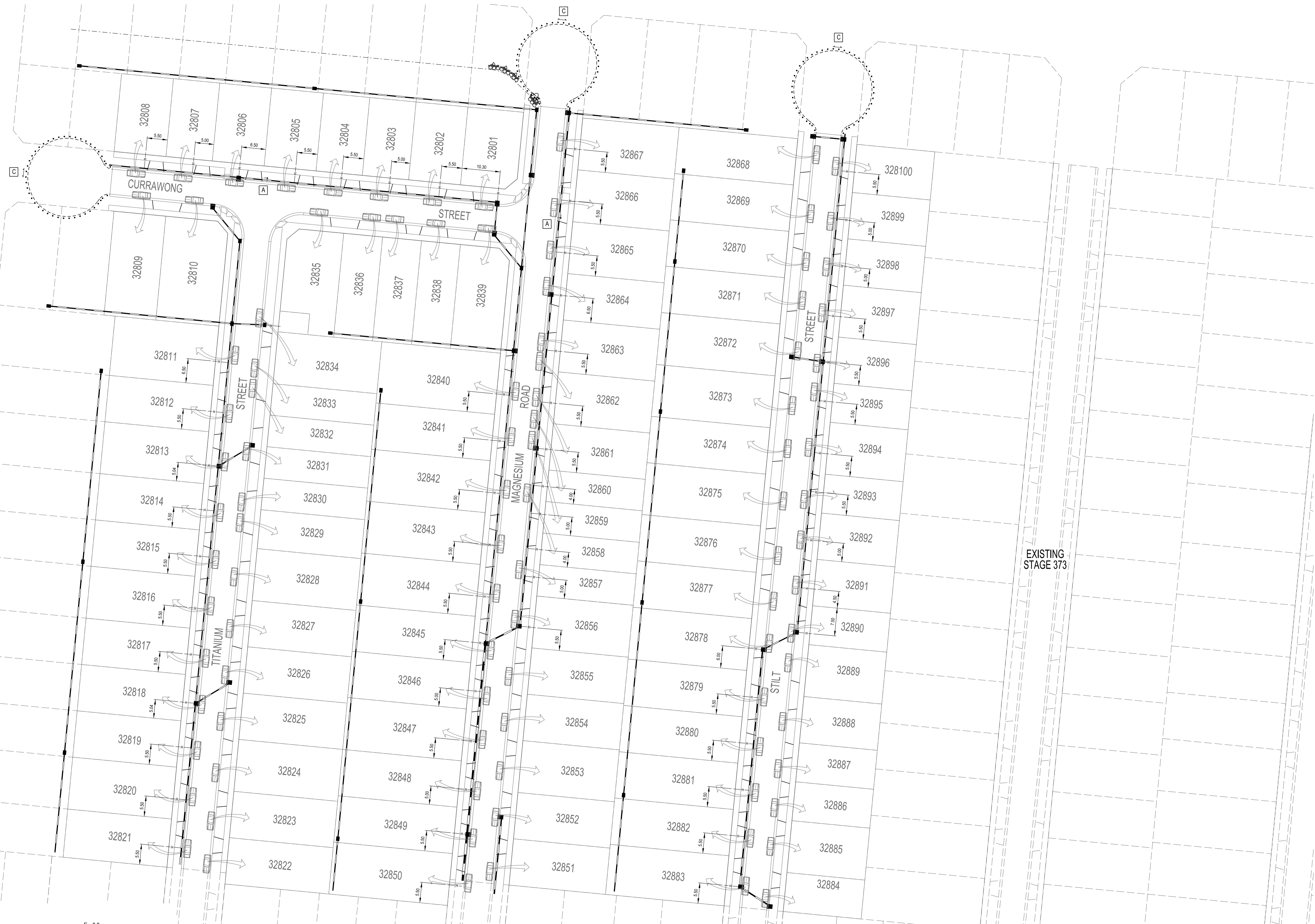
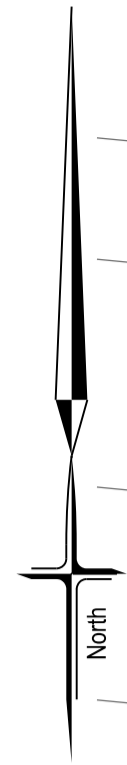
 breese pitt dixon pty. ltd. land surveyors civil engineers		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310
MELWAY REF. 367-F-3 SURVEY VERIS DESIGN R.W. DRAWN D.W.		CLOVERTON ESTATE STAGE 328 DRAINAGE LONG SECTIONS
AMENDMENTS VER DATE REMARKS		MUNICIPALITY HUME REFERENCE 8460 E/328
CHECKED A.K.		SCALE AS SHOWN DATUM AHD DATE AUG'22 SHEET 11 OF 16 P1



INDICATES CLASS 2 CRUSHED ROCK BACKFILL
 INDICATES CLASS 3 CRUSHED ROCK BACKFILL
 INDICATES 5YR HGL

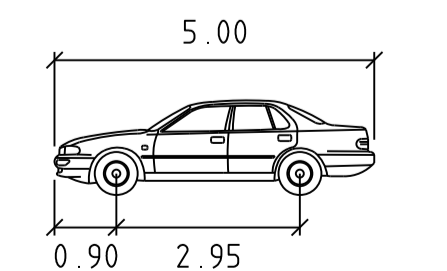
DRAINAGE LONGITUDINAL SECTIONS
 SCALE HORIZONTAL 1:500
 VERTICAL 1:50
 SCALE H 1:500 V 1:50 @ A1
 HORIZ 10 5 0 10 20 40
 VERT 1 0.5 0 1 2 4
 LENGTHS ARE IN METRES

breese pitt dixon pty. ltd. land surveyors civil engineers		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
MELWAY REF. 367-F-3 SURVEY VERIS DESIGN R.W. DRAWN D.W.		CLOVERTON ESTATE STAGE 328 DRAINAGE LONG SECTIONS	
MUNICIPALITY HUME REFERENCE 8460 E/328		SHEET 12 OF 16 P1	
AMENDMENTS VER DATE REMARKS	CHECKED A.K. SCALE AS SHOWN DATUM AHD DATE AUG'22	DATE AUG'22	SHEET 12 OF 16 P1



SIGNAGE LEGEND

A	STREET SIGNS
B	GIVE WAY (R1-2)
C	ROAD CLOSED SIGN (G9-20) WITH OBSTRUCTION MARKER SIGN (D4-5) - CLASS 1



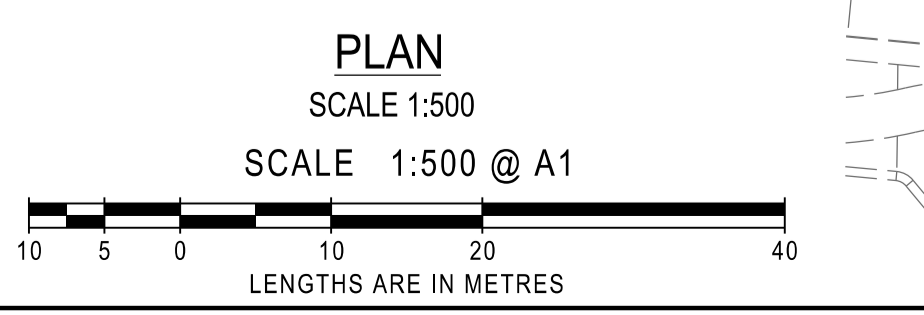
NOTES

a) ALL SIGNS TO BE SLEEVED USING A SL27 SLEEVE.

b) SWLM - INDICATES SOLID WHITE "LONGLIFE" LINE MARKING
 BWLM - INDICATES BROKEN WHITE "LONGLIFE" LINE MARKING

CAR meters

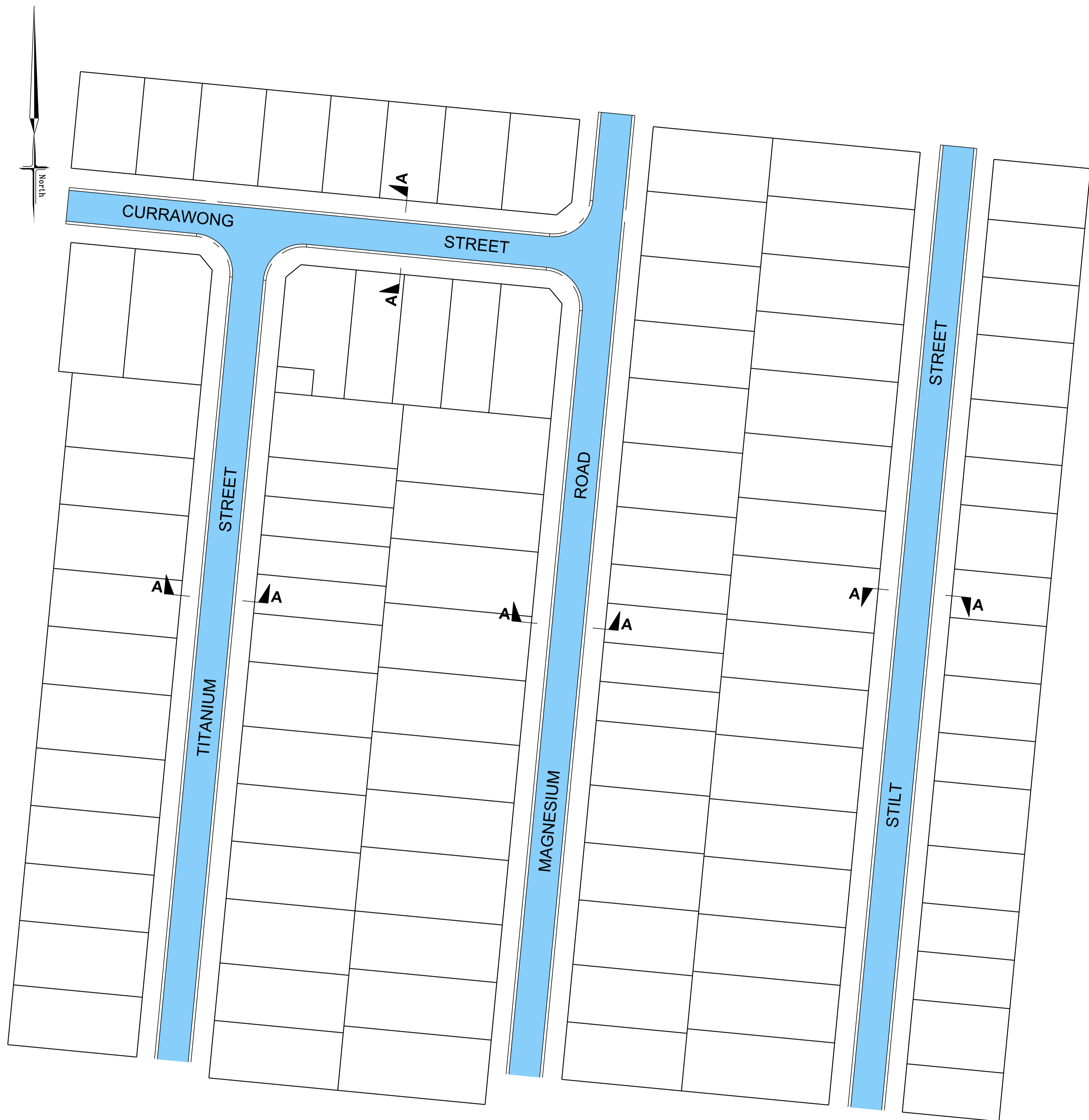
Width : 1.90
 Track : 1.55
 Lock to Lock Time : 6.00
 Steering Angle : 33.00



AMENDMENTS	VER	DATE	REMARKS

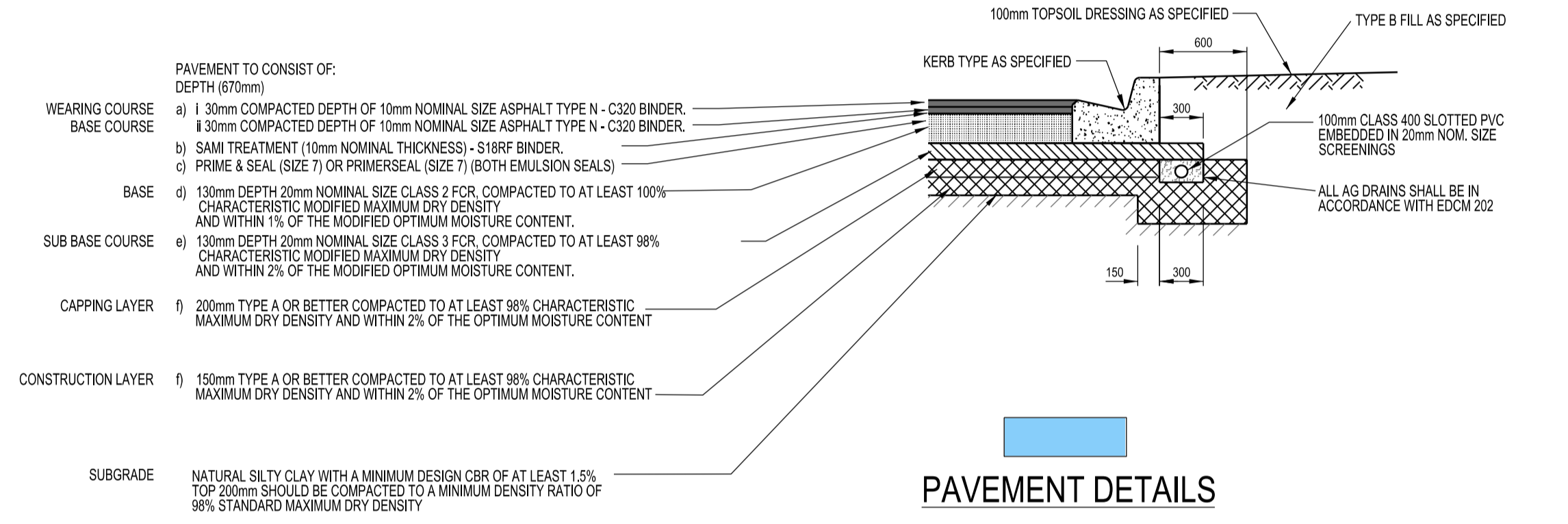
<p>breese pitt dixon pty. ltd. land surveyors civil engineers</p>	MELWAY REF. 386-F-3	<p>COLVERTON ESTATE STAGE 328 SIGNAGE & LINEMARKING PLAN</p>	MUNICIPALITY HUME
	SURVEY VERIS		REFERENCE 8460E/328
	DESIGN R.W.		
	DRAWN D.W.		
CHECKED A.K.	SCALE AS SHOWN	DATUM AHD	DATE FEB '22
			SHEET 14 OF 16
			P1

1/19 cato street
 hawthorn east, 3123
 telephone 8823 2300
 fax no. 8823 2310

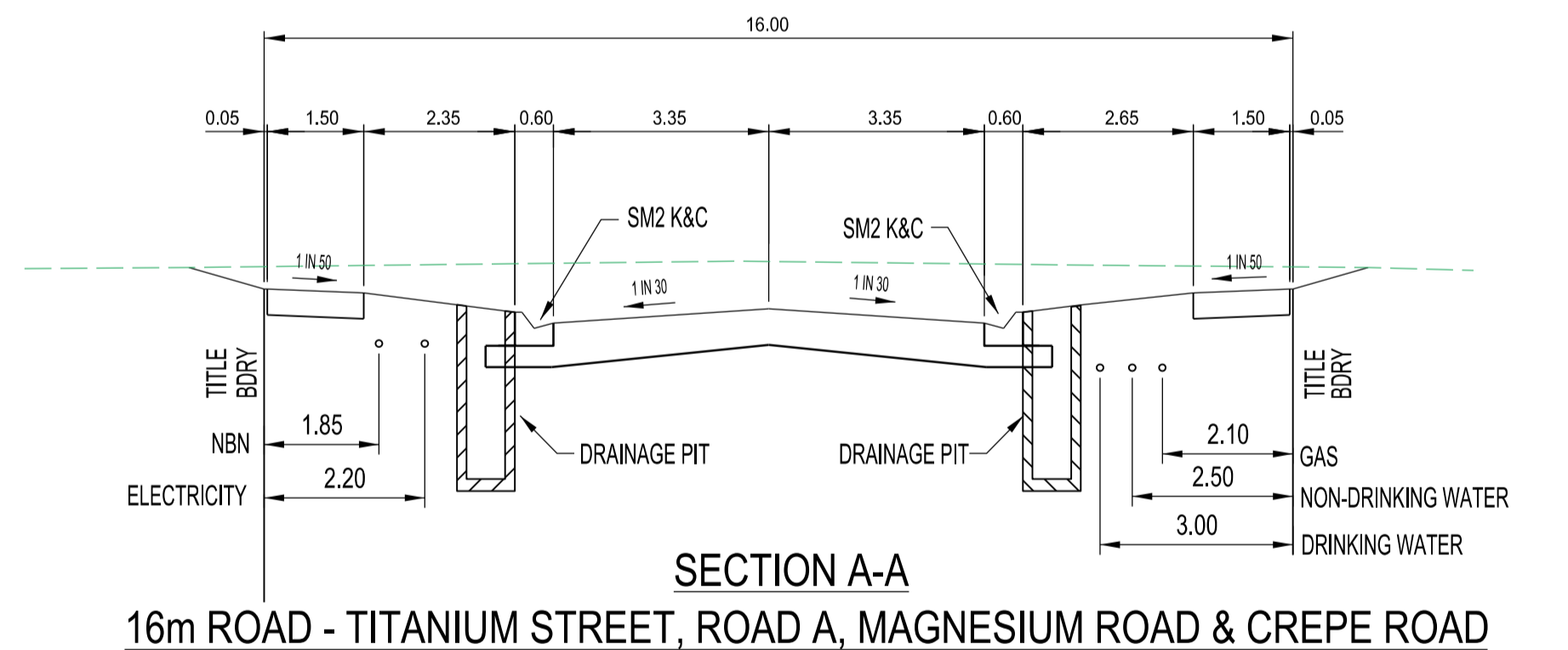


PLAN
NTS

LEGEND
670mm PAVEMENT
(REFER DETAILS)



PAVEMENT DETAILS
TITANIUM STREET, CURRAWONG STREET, MAGNESIUM ROAD & STILT STREET



SECTION A-A
16m ROAD - TITANIUM STREET, ROAD A, MAGNESIUM ROAD & CREPE ROAD

AMENDMENTS		breese pitt dixon pty. ltd. land surveyors civil engineers		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
		MELWAY REF. 386-F-3 SURVEY VERIS DESIGN R.W. DRAWN D.W.		MUNICIPALITY HUME REFERENCE 8460 ^E /328	
		CLOVERTON ESTATE STAGE 328 TYPICAL CROSS SECTIONS		SHEET 15 OF 16 P1	
VER	DATE	REMARKS	CHECKED A.K.	SCALE AS SHOWN	DATUM AHD
					DATE AUG'22

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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	300	450	15	300
500	300	500	15	300
600	300	500	30	300
800	300	550	30	300
1000	300	600	30	300

RETAINING WALL NOTE R.1.

a. WHERE FOOTPATH ABUTS RETAINING WALL CONTINUE CONCRETE UP TO BASE OF RETAINING WALL

FOOTING NOTE F.2.

a. TOE OF WALL SHALL PENETRATE THROUGH ANY FILL MATERIAL & THE NATURAL SILT SOILS TO BE FOUND AT LEAST 100mm INTO THIS UNDERLYING NATURAL STIFF 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 DEEPEMED 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 FOUND IN STIFF NATURAL CLAY HAVING A SAFE BEARING CAPACITY OF 100KPa.

e. WHERE A PARALLEL SEWER IS PROPOSED ADJACENT TO THE RETAINING WALL, LOWER FOUNDING DEPTH 'D' TO ENSURE SEWER PIPE IS ABOVE THE 45° ANGLE OF REPOSE.

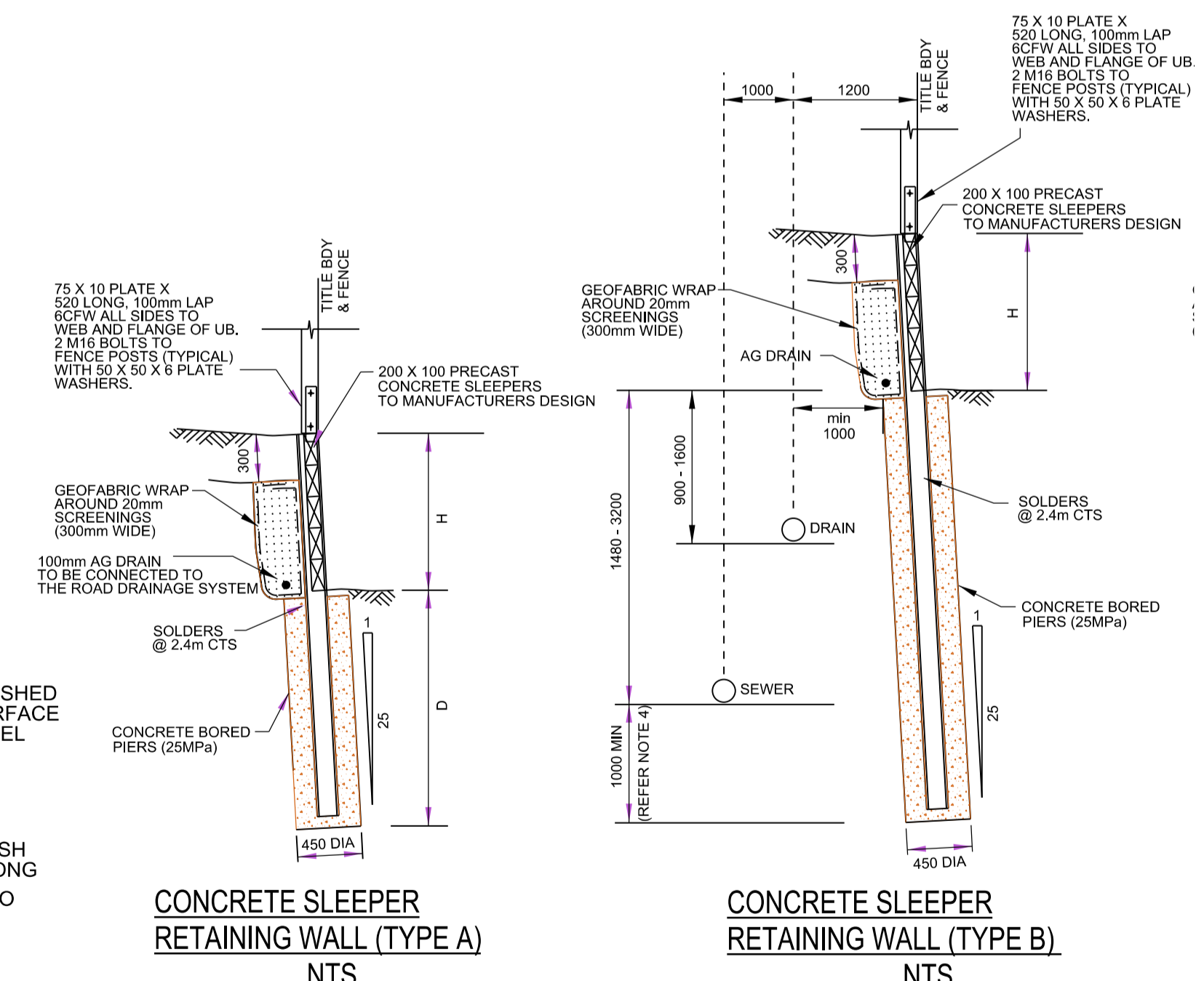
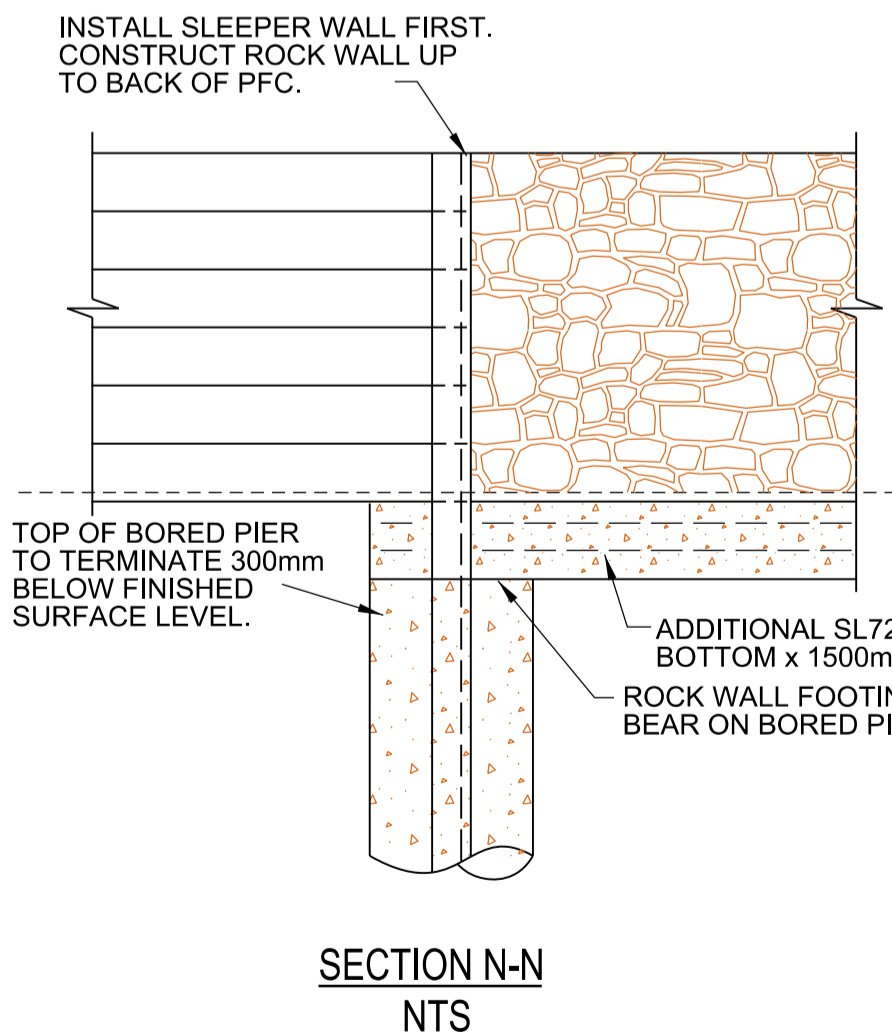
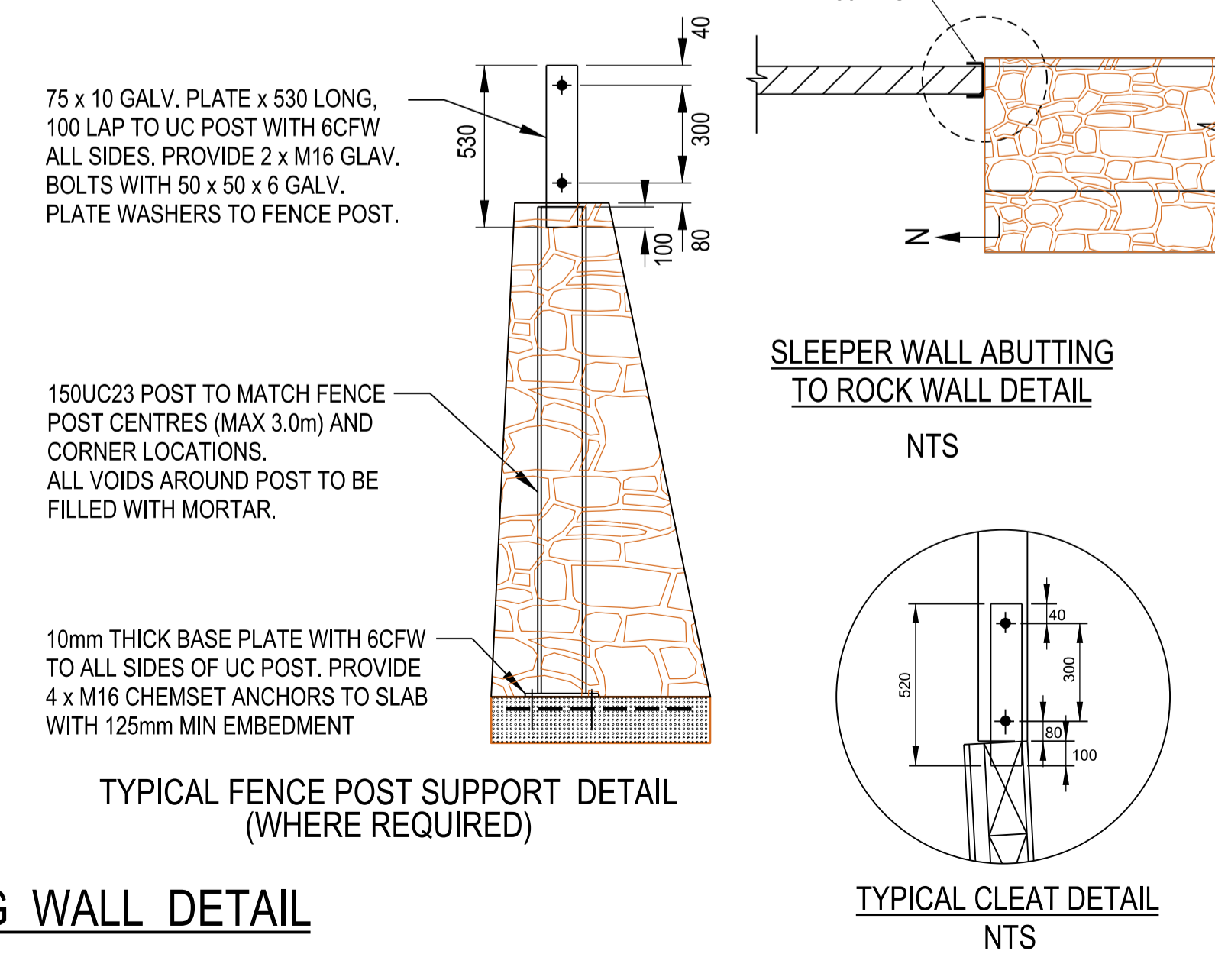
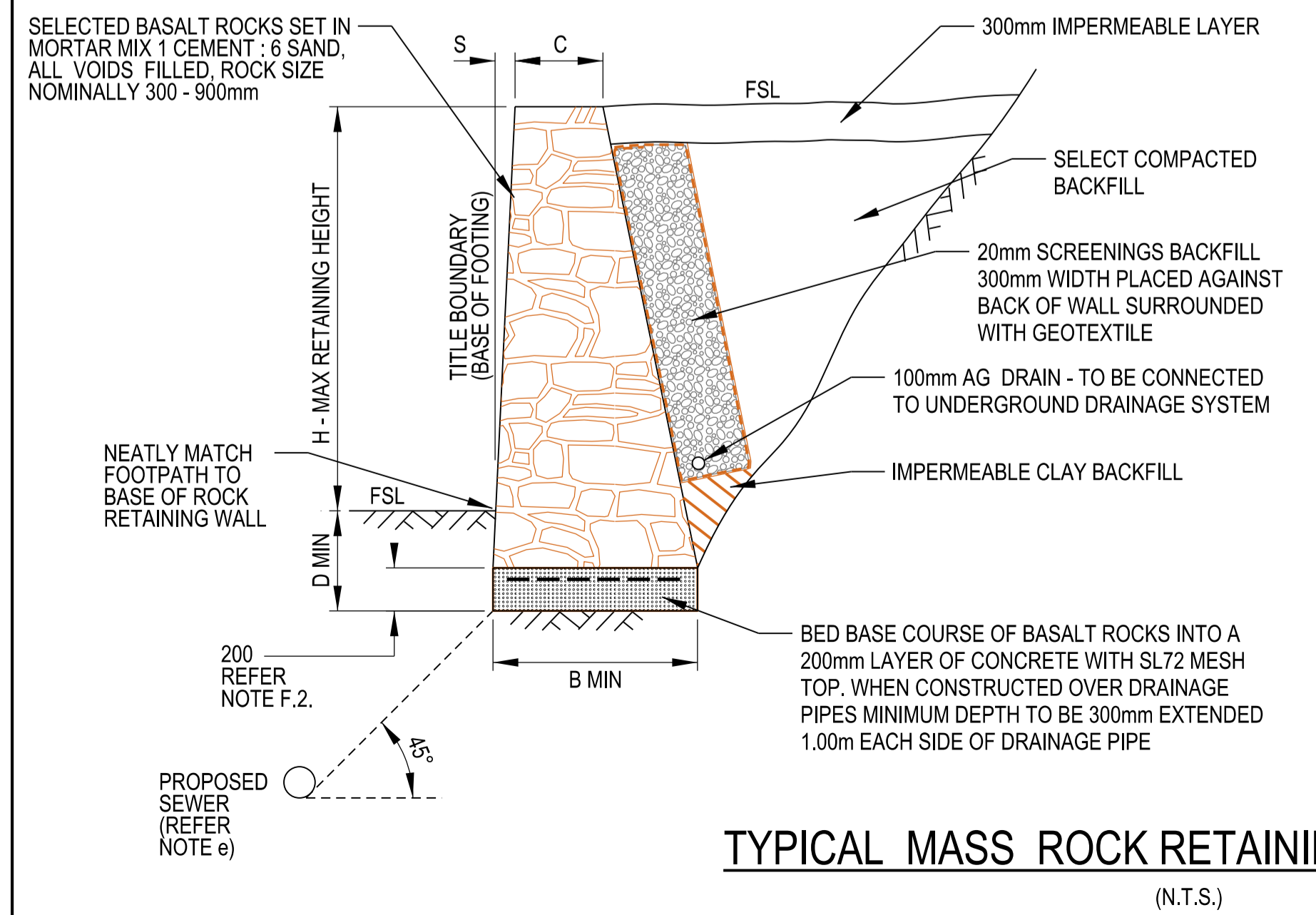
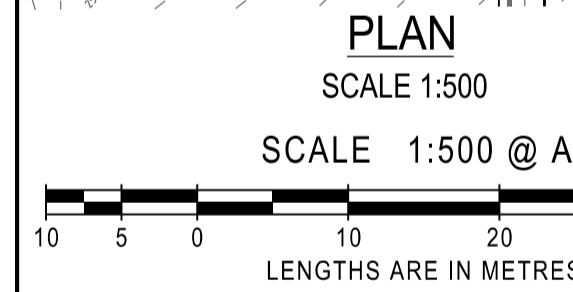
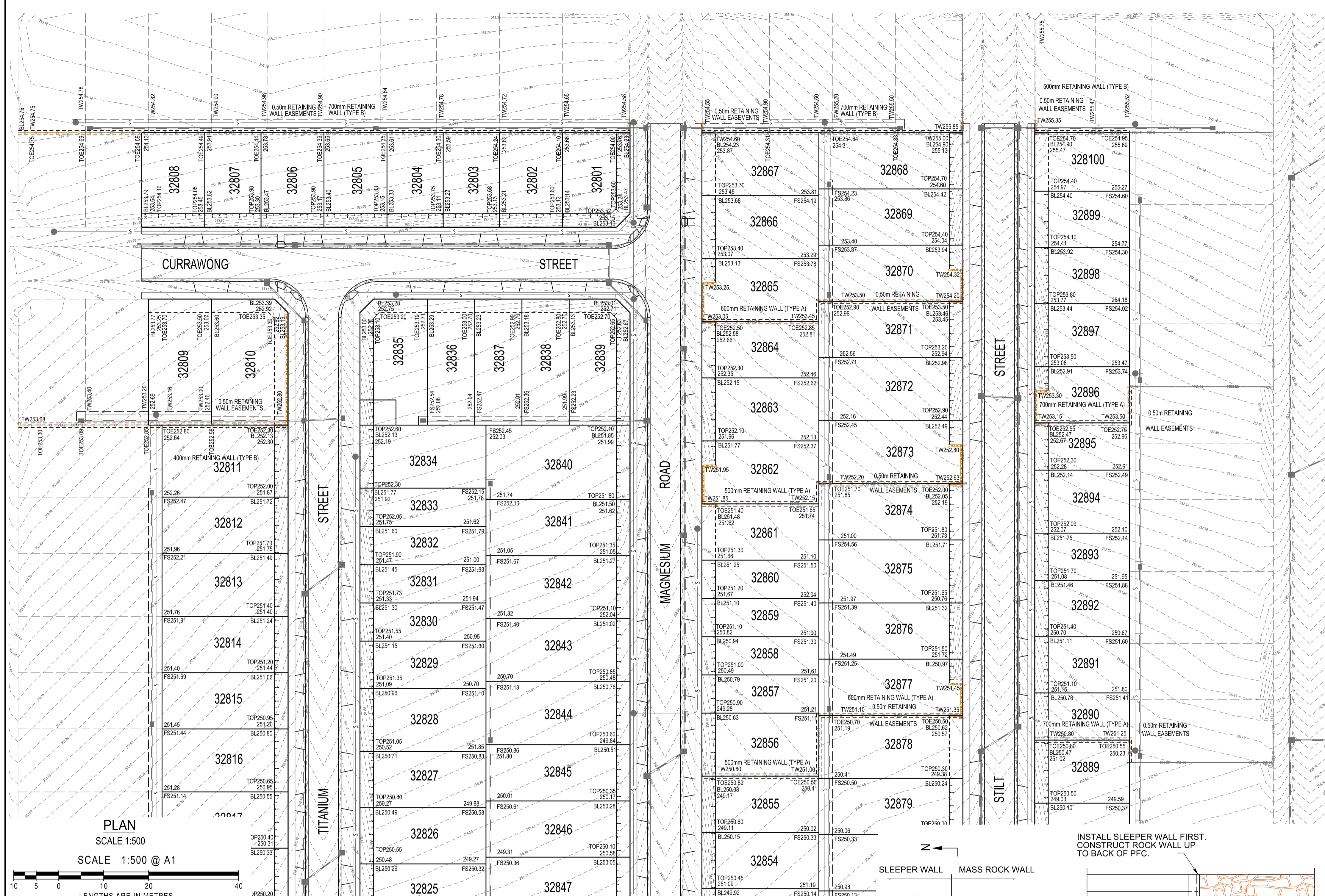
RETAINING WALL DETAILS ARE NOT PART OF THE SUB DIVISIONAL WORKS OR APPROVAL AND IS SUBJECT TO SEPARATE APPROVAL.

THIS SHEET IS SUPPLEMENTARY TO THE ENGINEERING PLANS.

CONCRETE SLEEPER RETAINING WALL DIMENSIONS

MAX WALL HEIGHT - H (mm)	FOUNDING DEPTH - D (mm)	GALV. SOLDIER SIZE
400	600	150 UB 14
600	900	150 UB 14
800	1200	150 UB 14
1000	1500	150 UB 14

- NOTES:**
- ALL STEELWORK IS TO BE HOT DIPPED GALVANISED.
 - IF BEDROCK OR BASALT BOULDER IS STRUCK DURING PIER DRILLING PROVIDE 600 MIN SOCKET.
 - ALL SOLDIERS TO BE FOUND AT DEPTH 'D' OR 1000mm BELOW THE INVERT OF THE ADJACENT EXISTING SEWER, WHICHEVER IS THE GREATER.
 - WHERE A PARALLEL SEWER IS PROPOSED ADJACENT TO THE RETAINING WALL, PIER DEPTH 'D' IS TO BE EXTENDED 1.0m MIN BELOW SEWER PIPE. REFER SEWER LS FOR DEPTH.



AMENDMENTS		breese pitt dixon pty. ltd. land surveyors civil engineers		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310							
MELWAY REF.	367-F-3	CLOVERTON ESTATE STAGE 328 RETAINING WALL PLAN & DETAILS		MUNICIPALITY							
SURVEY	VERIS			HUME							
DESIGN	R.W.			REFERENCE							
DRAWN	D.W.			8460 E/328							
VER	DATE	REMARKS	CHECKED	A.K.	SCALE AS SHOWN	DATUM AHD	DATE	AUG 22	SHEET	16 OF 16	P1