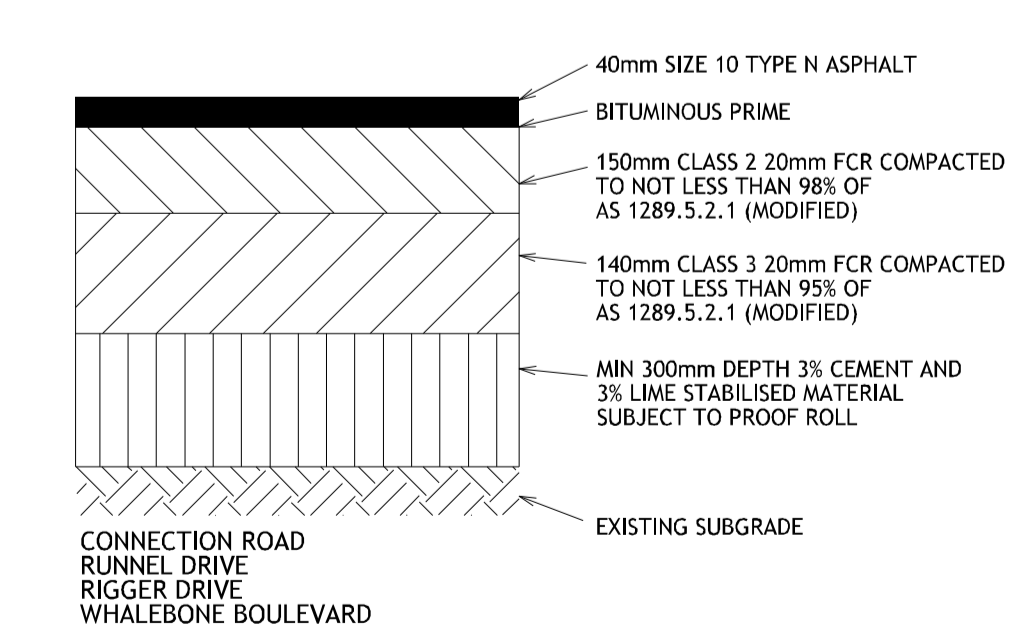
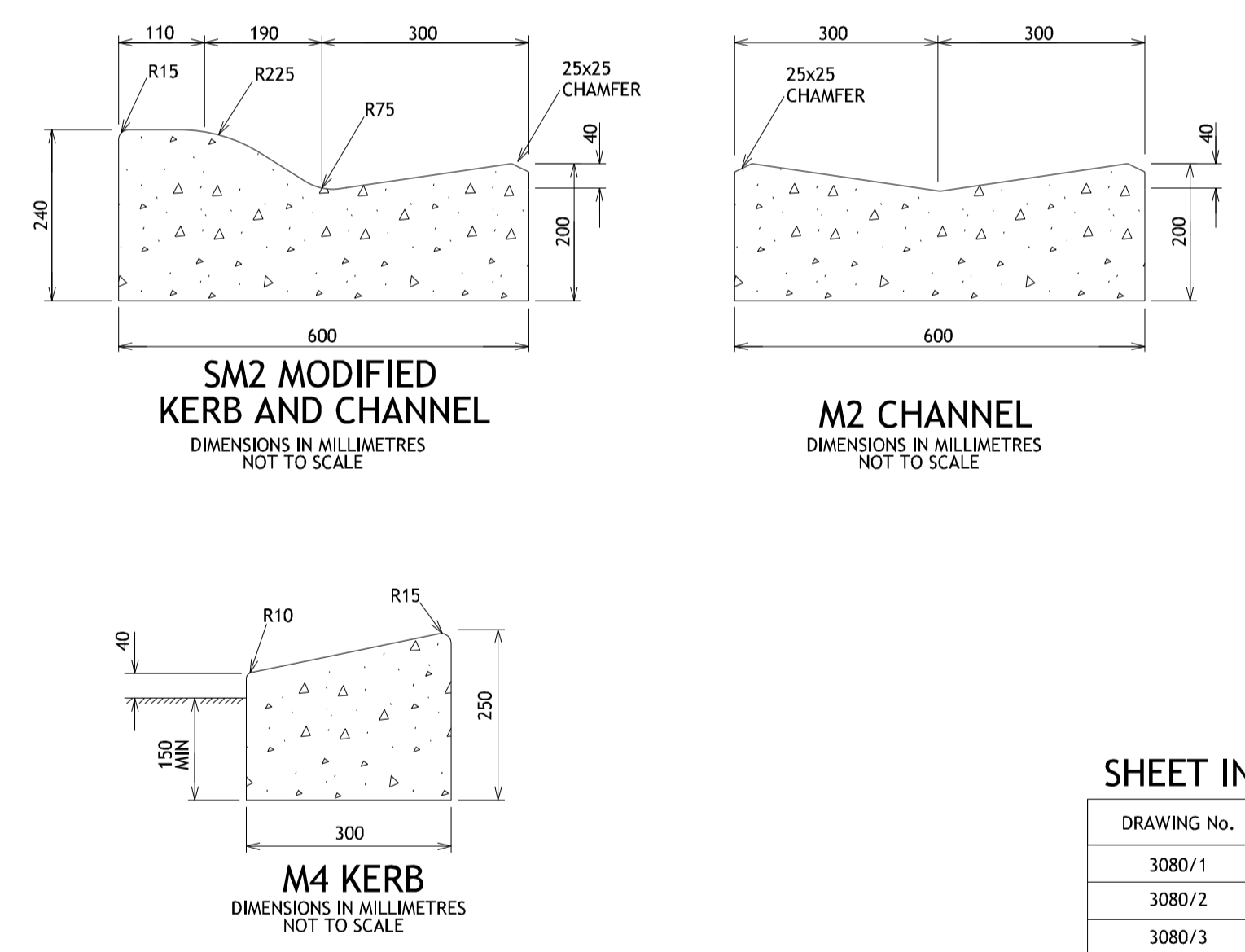
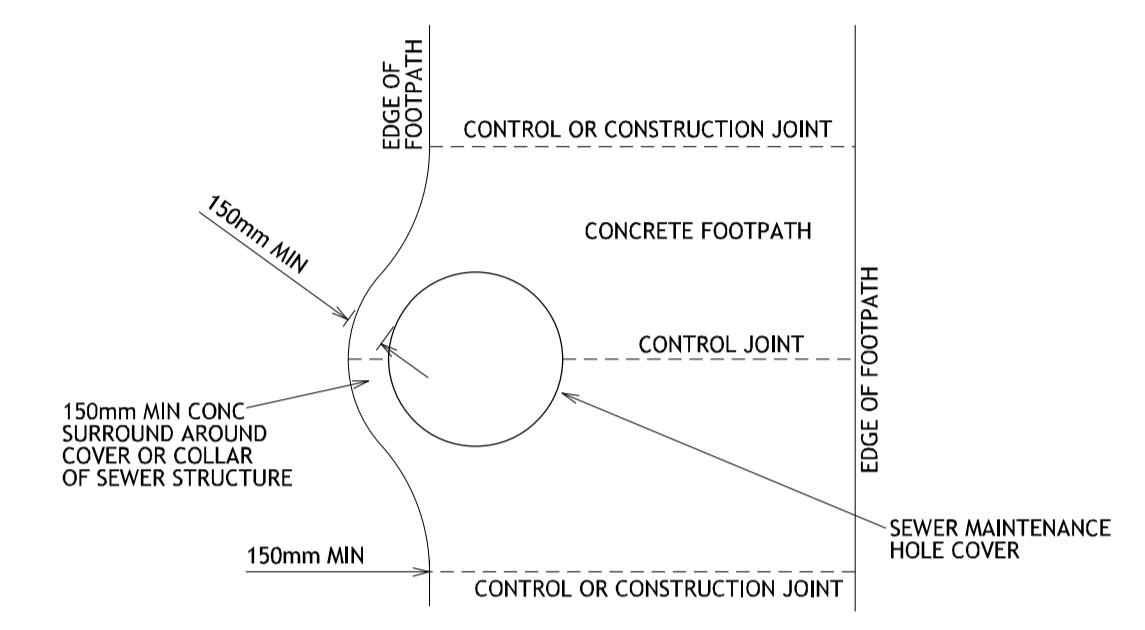
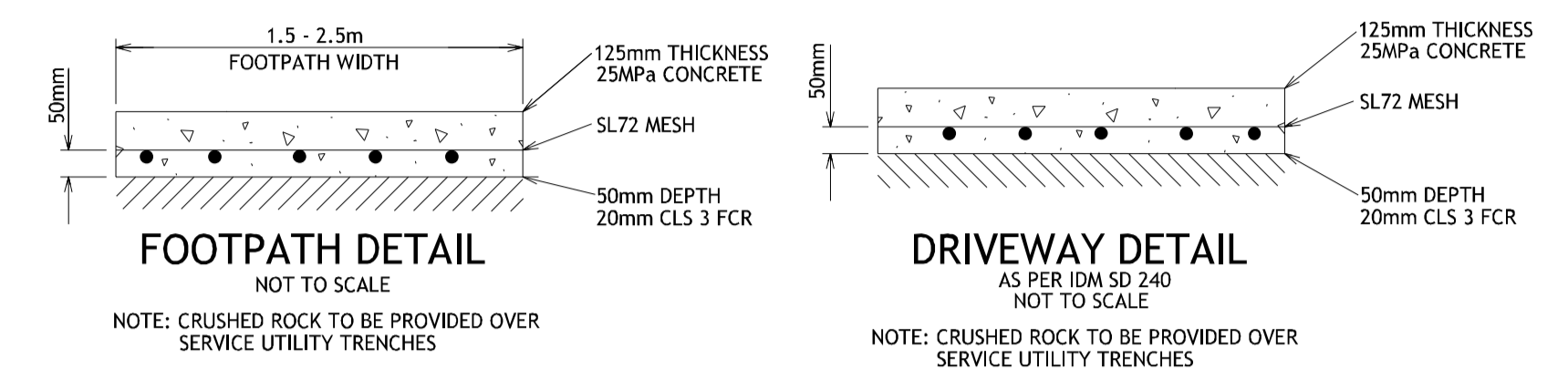




SERVICE OFFSET TABLE

ROAD	TELSTRA	WATER	GAS	POWER	SEWER	STREET TREES
CONNECTION ROAD	2.1m NORTH (TYPICALLY)	2.8m SOUTH (TYPICALLY)	2.3m SOUTH(TYPICALLY)	2.6m NORTH (TYPICALLY)	1m NORTH (TYPICALLY)	2.5m NORTH (TYPICALLY) 2.5m SOUTH (TYPICALLY)
RUNNEL DRIVE	2.10m SOUTH (TYPICALLY)	2.6m NORTH (TYPICALLY)	2.1m NORTH (TYPICALLY)	2.6m SOUTH (TYPICALLY)	VARIABLES	2.5m NORTH (TYPICALLY) 2.5m SOUTH (TYPICALLY)
RIGGER DRIVE	2.10m WEST (TYPICALLY)	2.6m EAST (TYPICALLY)	2.1m EAST (TYPICALLY)	2.6m WEST (TYPICALLY)	1m EAST (TYPICALLY)	2.5m EAST (TYPICALLY) 2.5m WEST (TYPICALLY)
WHALEBONE BOULEVARD	2.10m EAST (TYPICALLY)	2.8m WEST (TYPICALLY)	2.3m WEST (TYPICALLY)	2.6m EAST (TYPICALLY)	-1.5m WEST (TYPICALLY)	2.5m EAST (TYPICALLY) 2.5m WEST (TYPICALLY)

NOTE: LOCATIONS ARE DIRECTIONAL FROM ROAD CENTRELINES. ALL MEASUREMENTS ARE TO BE TAKEN FROM THE BUILDING LINE TO CENTRELINE OF TRENCH



- NOTES:**
- ALL WORKS SHALL CONFORM TO VICROADS STANDARD SPECIFICATIONS
 - ALL DIMENSIONS ARE IN METRES
 - LEVELS ARE TO A.H.D. AND TAKEN FROM LEVEL PLANS BY REDDIE SURVEYORS
 - EXISTING SURFACE LEVELS SHOWN ES 9.79
 - STREET SIGNS SHOWN
 - ALL CHAINAGES SHOWN ARE CENTRELINE CHAINAGES UNLESS OTHERWISE NOTED. PITS SHALL BE LOCATED FROM OFFSETS SHOWN ON PLANS.
 - NBN, ELECTRICITY AND WATER CONDUITS TAPPED AT EACH END ARE SHOWN
 - ALL EASEMENTS ARE FOR DRAINAGE AND SEWERAGE PURPOSES UNLESS OTHERWISE NOTED
 - ALL CONSTRUCTION MUST BE CONTAINED WITHIN THEIR RELEVANT RESERVE OR EASEMENT
 - PROPOSED DRAINAGE SHOWN
 - EXISTING DRAINAGE SHOWN
 - HOUSE DRAIN
 - CLASS 3 BACKFILL TO BE USED IN SERVICE TRENCHES UNDER FOOTPATHS AND VEHICULAR CROSSINGS
 - PROPOSED SEWER SHOWN
 - EXISTING SEWER SHOWN
 - THE CONTRACTOR SHOULD NOTE THE EXISTENCE OF TELECOM, GAS, POWER, WATER AND ANY OTHER SERVICES IN THE AREA PRIOR TO TENDERING. ANY DISTURBANCE TO EXISTING SERVICES, FOOTPATHS ETC. SHALL BE RECTIFIED AT THE CONTRACTORS EXPENSE.
 - ALL NATURE STRIPS AND BATTERS SHALL BE COVERED WITH 150mm MIN. DEPTH TOPSOIL AND SEEDED WITH AN APPROVED SEED AND FERTILIZER MIXTURE.
 - AT COMPLETION, THE WHOLE SITE SHALL BE CLEANED UP, GRADED OVER AND ALL RUBBISH REMOVED, AND THE SITE LEFT IN A CLEAN AND TIDY CONDITION TO THE SATISFACTION OF THE SUPERVISING ENGINEER.
 - EXTENT OF CUT AND FILL IS SHOWN AS
 - SERVICE CROSSING LOCATIONS TO BE MARKED ON KERB FOR WATER, POWER AND NBN CONDUITS AND HOUSE DRAINS FOR EACH PROPERTY.
 - HOLD POINTS FOR CONSTRUCTION ARE AS FOLLOWS:
24 HOURS NOTICE IS REQUIRED FOR INSPECTIONS AT HOLD POINTS
- INSPECTION PRIOR TO COMMENCEMENT OF WORKS;
- INSPECTION OF SUBGRADE;
- INSPECTION DURING DRAINAGE WORKS;
- INSPECTION OF SUBSOIL DRAINAGE;
- INSPECTION OF KERB AND CHANNEL BEDDING AND LAYING;
- INSPECTION AND TESTING OF EACH PAVEMENT LAYER PRIOR TO PLACING ANY SUBSEQUENT PAVEMENT LAYER;
- INSPECTION PRIOR TO SEALING AND ASPHALT WORKS.
 - WATER AND GAS CONDUITS ARE TO EXTEND 1m INSIDE THE PROPERTY BOUNDARY
 - BACKFILL FOR ROAD CROSSINGS AND UNDER DRIVEWAY CROSSINGS SHALL BE 20mm CLASS 2 CRUSHED ROCK COMPACTED IN 150mm DEEP LAYERS TO 95% OF AS1289.5.2.1
 - TREATMENT OF SOFT SPOTS SHALL BE DIRECTED BY BROSNAN ENGINEERING SOLUTIONS. NO SUBGRADE REPLACEMENT WORKS TO BE UNDERTAKEN WITHOUT PRIOR CONSENT FROM BROSNAN ENGINEERING SOLUTIONS.
 - COUNCIL'S SURVEILLANCE OFFICER, TOM RUELLELL IS TO BE CONTACTED ON 00466 821 859 WHEN ARRANGING INSPECTIONS.
 - NO TOPSOIL, SILT OR CLAYEY SILT IS TO BE TAKEN OFF SITE
 - PRAM CROSSINGS ARE TO BE USED AT ALL MODIFIED SM2 KERB AND CHANNEL LOCATIONS
 - BEFORE COMMENCING WORK ON TRENCHES IN EXCESS OF 1.5 METRES IN DEPTH, NOTICE OF SUCH PROPOSAL IS TO BE SENT TO THE PRINCIPAL MINING INSPECTOR, VICTORIAN WORKCOVER AUTHORITY IN ACCORDANCE WITH THE MINES ACT 1958 AND OH&S ACT 1985. A FOREMAN, QUALIFIED AS A NOMINATED PERMITTED MINES MANAGER, MUST BE IN ATTENDANCE AT ALL TIMES DURING SUCH EXCAVATION.
 - ALL LINE MARKING AND SIGNAGE TO BE INSTALLED IN ACCORDANCE WITH AS1742-1 AND AS1742-2, UNLESS SHOWN OTHERWISE. ALL TEMPORARY WARNING SIGNS USED DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH AS1742-3. ALL LINE MARKING TO BE THERMOPLASTIC.
 - TACTILE GROUND SURFACE INDICATORS (TGS) ARE TO BE VICROADS APPROVED
 - COMPACTION TEST RESULTS ON SUBGRADE, SUBBASE & BASE TO BE PROVIDED TO BROSNAN ENGINEERING SOLUTIONS AND BASS COAST SHIRE COUNCIL PRIOR TO CONSTRUCTION OF SUBSEQUENT LAYERS
 - CONCRETE GRADE TO BE USED FOR CONSTRUCTION OF PITS TO BE 25MPa
 - ALL PIPES TO BE RUBBER RING JOINTED (RRJ) UNLESS OTHERWISE STATED
 - ALL AREAS REQUIRING FILL TO BE STRIPPED, CLEANED OUT TO A SOLID BASE, AND FILLED WITH A SUITABLE CLEAN SITE-DERIVED MATERIAL PLACED IN LAYERS NOT EXCEEDING 150mm IN DEPTH AND COMPACTED TO NOT LESS THAN 95.0% OF AS1289.5.1.1 (STANDARD COMPACTION) AT A MOISTURE RATIO BETWEEN 90% AND 105% OF OPTIMUM MOISTURE CONTENT. ALL ALLOTMENT FILLING EXCEEDING 300mm DEPTH TO BE UNDERTAKEN UNDER LEVEL 1 SUPERVISION WITH COMPACTION TESTS AND CERTIFICATES PROVIDED FOR EACH ALLOTMENT THAT HAS SAID FILL PLACED.
 - HOUSE DRAINS ARE TO BE INSTALLED IN ACCORDANCE WITH IDM STANDARD DRAWING SPECIFIED. DRAINS SHALL BE BROUGHT TO THE SURFACE AND CAPPED WHERE APPLICABLE. SD 520 EASEMENT DRAINS TO BE CONSTRUCTED WITH 450x450 PLASTIC EVERHARD PIT (OR EQUIVALENT)

SHEET INDEX

DRAWING No.	TITLE
3080/1	LAYOUT PLAN & GENERAL NOTES
3080/2	DETAIL PLAN
3080/3	RIGGER DRIVE & RUNNEL DRIVE LONGITUDINAL & TYP SECTIONS
3080/4	CONNECTION ROAD LONGITUDINAL SECTION & TYPICAL SECTION
3080/5	WHALEBONE BOULEVARD LONGITUDINAL & CROSS SECTIONS
3080/6	MAIN DRAINAGE CHANNEL LONGITUDINAL/CROSS SECTION
3080/7	RIGGER DRIVE CROSS SECTIONS
3080/8	RUNNEL DRIVE CROSS SECTIONS
3080/9	RUNNEL DRIVE CROSS SECTIONS
3080/10	RUNNEL DRIVE CROSS SECTIONS
3080/11	RUNNEL DRIVE CROSS SECTIONS
3080/12	CONNECTION ROAD CROSS SECTIONS
3080/13	CONNECTION ROAD CROSS SECTIONS
3080/14	CONNECTION ROAD & WHALEBONE BOULEVARD CROSS SECTIONS
3080/15	DRAINAGE LONGITUDINAL SECTIONS
3080/16	DRAINAGE LONGITUDINAL SECTIONS
3080/17	DRAINAGE LONGITUDINAL SECTIONS
3080/18	DRAINAGE LONGITUDINAL SECTIONS & PIT SCHEDULE
3080/19	INTERSECTION DETAILS
3080/20	CHICANE DETAILS

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INDEX	DATE	REVISION	APPD

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 P 03 5672 5777 E info@broseng.com.au

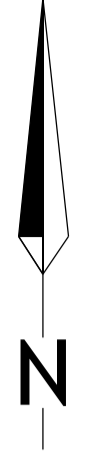
PLAN OF SUBDIVISION: PS838137Y
 SURVEY NOBELIUS
 DESIGN M.BROSNAN
 CHECKED B.WILSON

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MUNICIPALITY: BASS COAST SHIRE COUNCIL
 SCHEME: 'POWLETT RIDGE ESTATE', WONTHAGGI - STAGE 3 LAYOUT PLAN & GENERAL NOTES
 CLIENT: THE BOULEVARDE PTY LTD

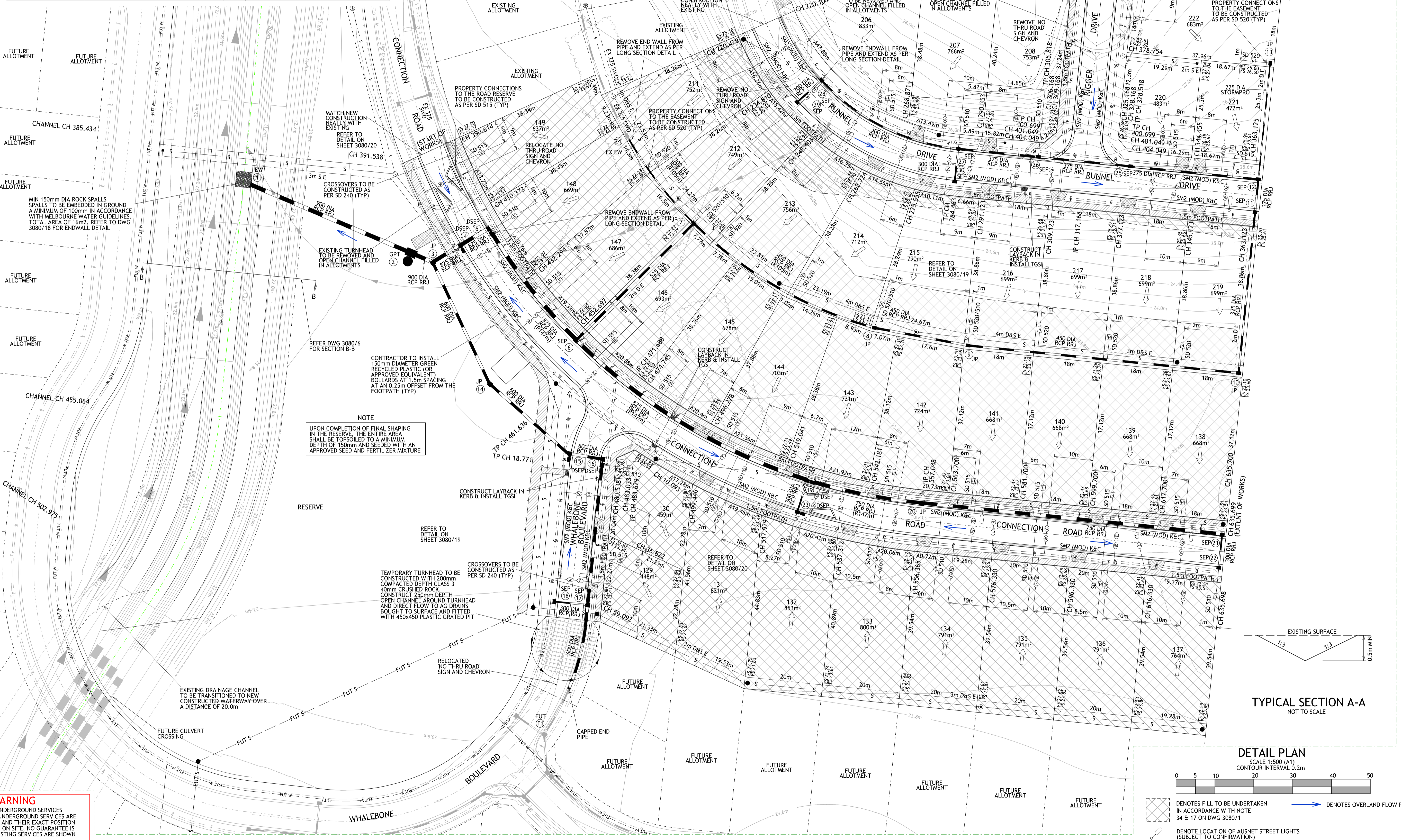
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 3080/ 1
 SHEET 1 OF 20

REV A



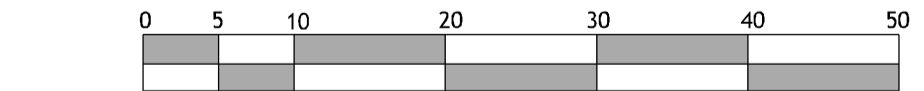
LEGEND

W	PROPOSED POTABLE WATERMAIN	●	PROPOSED SEWER MAINTENANCE STRUCTURE
S	EXISTING POTABLE WATERMAIN	○	EXISTING SEWER MAINTENANCE STRUCTURE
S	PROPOSED SEWERMAIN	■	PROPOSED SEWER TERMINAL MAINTENANCE SHAFT
E	EXISTING SEWERMAIN	□	EXISTING SEWER TERMINAL MAINTENANCE SHAFT
E	PROPOSED ELECTRICAL CABLE	○	PROPOSED DRAINAGE PIT
E	EXISTING ELECTRICAL CABLE	○	EXISTING DRAINAGE PIT
T	PROPOSED TELECOMMUNICATIONS CABLE	○	PROPOSED FIREPLUG
T	EXISTING TELECOMMUNICATIONS CABLE	○	EXISTING FIREPLUG
---	PROPOSED DRAINAGE PIPE	○	PROPOSED STREET LIGHT
---	EXISTING DRAINAGE PIPE	○	STORMWATER PROPERTY CONNECTION
---	FUTURE DRAINAGE PIPE	○	TACTILE GROUND SURFACE INDICATORS (TGS)
---	ELECTRICITY & TELECOMMUNICATIONS CONDUIT	○	DENOTES STREET LIGHT LOCATION
---	WATER & GAS CONDUIT	○	PERMANENT SURVEY MARK
---	TEMPORARY BENCH MARK	○	



TYPICAL SECTION A-A
NOT TO SCALE

DETAIL PLAN
SCALE 1:500 (A1)
CONTOUR INTERVAL 0.2m



DENOTES FILL TO BE UNDERTAKEN IN ACCORDANCE WITH NOTE 34 & 17 ON DWG 3080/1

DENOTES OVERLAND FLOW PATH

DENOTE LOCATION OF ALSNET STREET LIGHTS (SUBJECT TO CONFIRMATION)

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

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INDEX	DATE	REVISION									

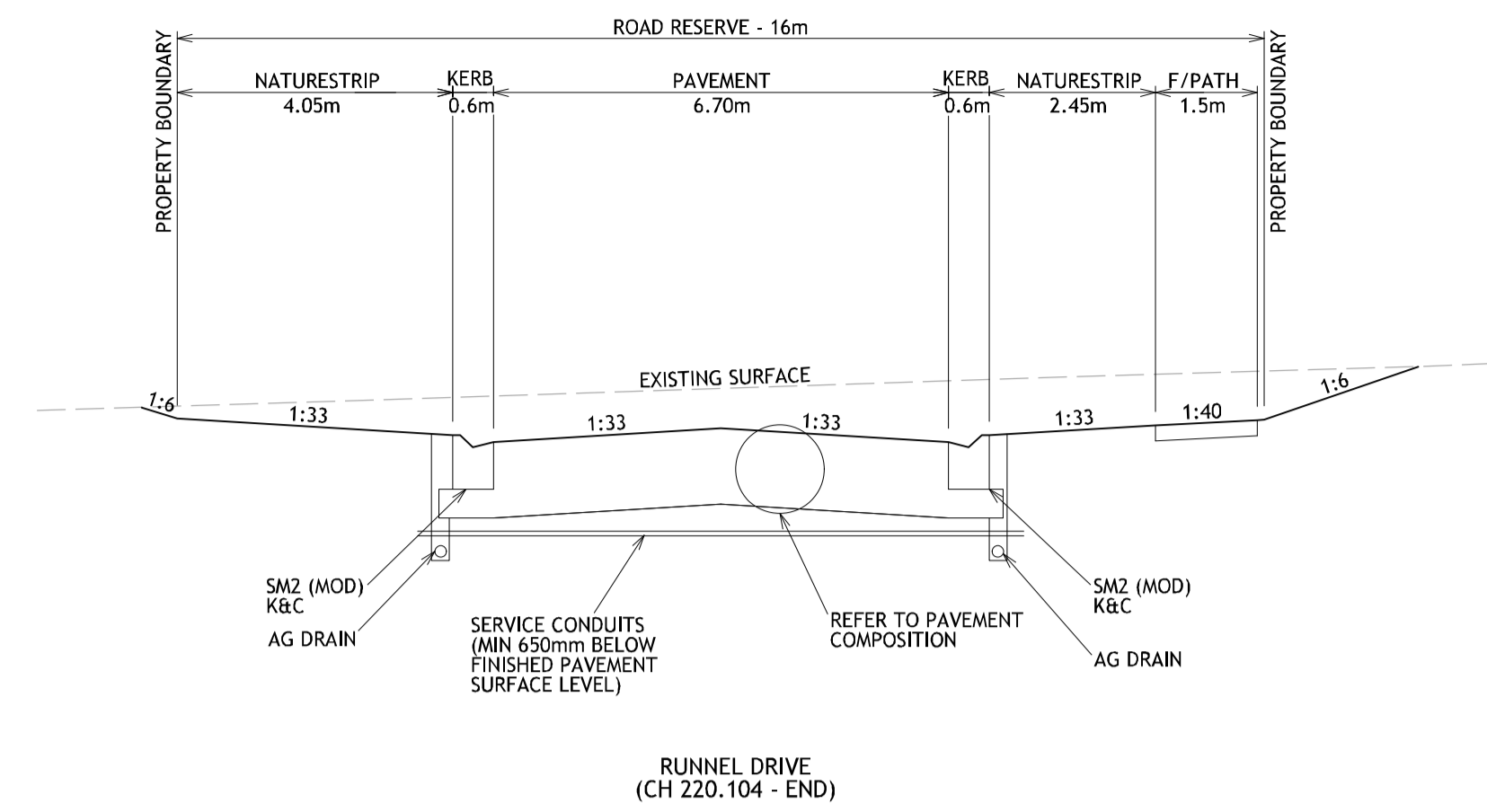
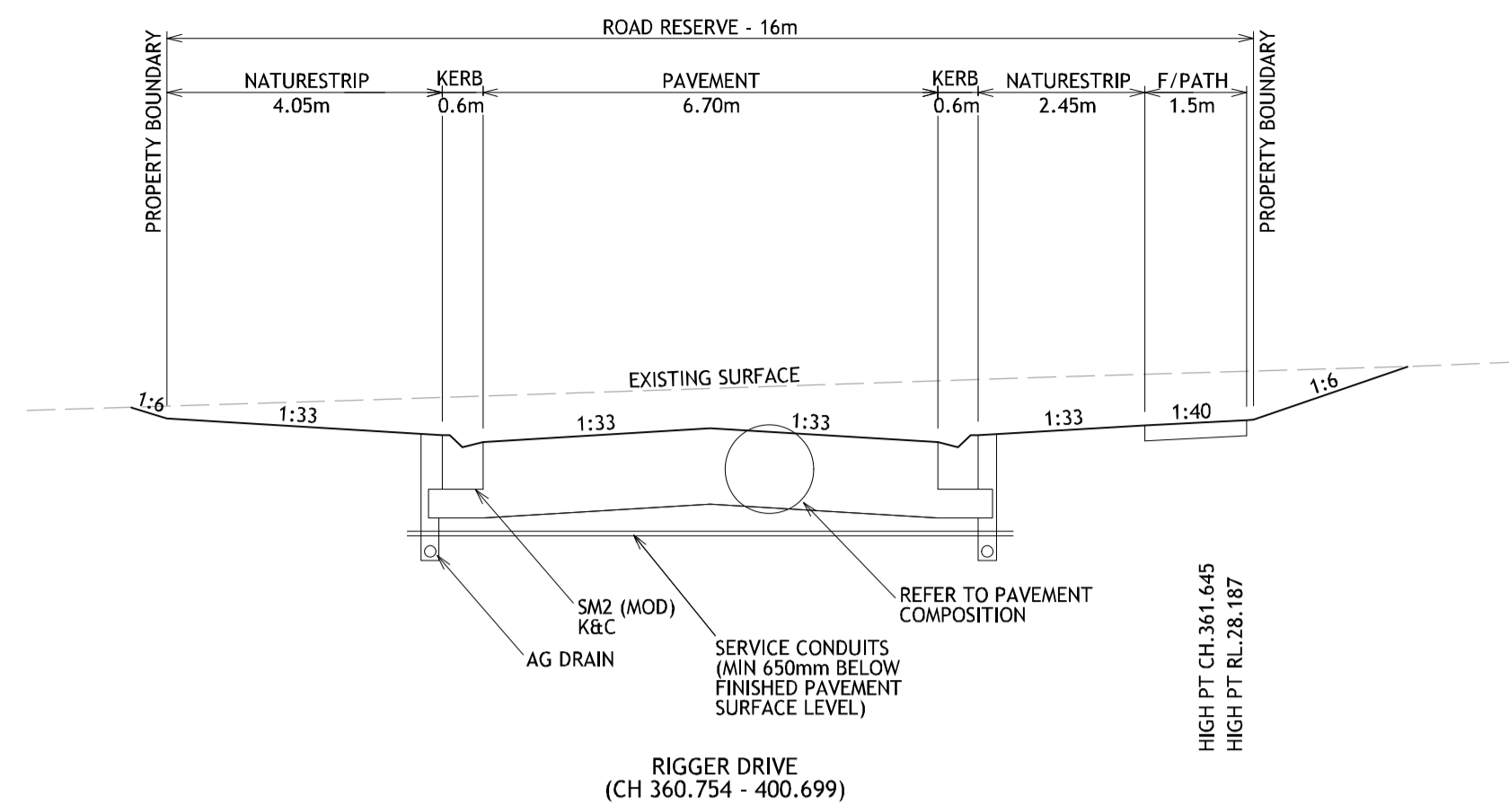


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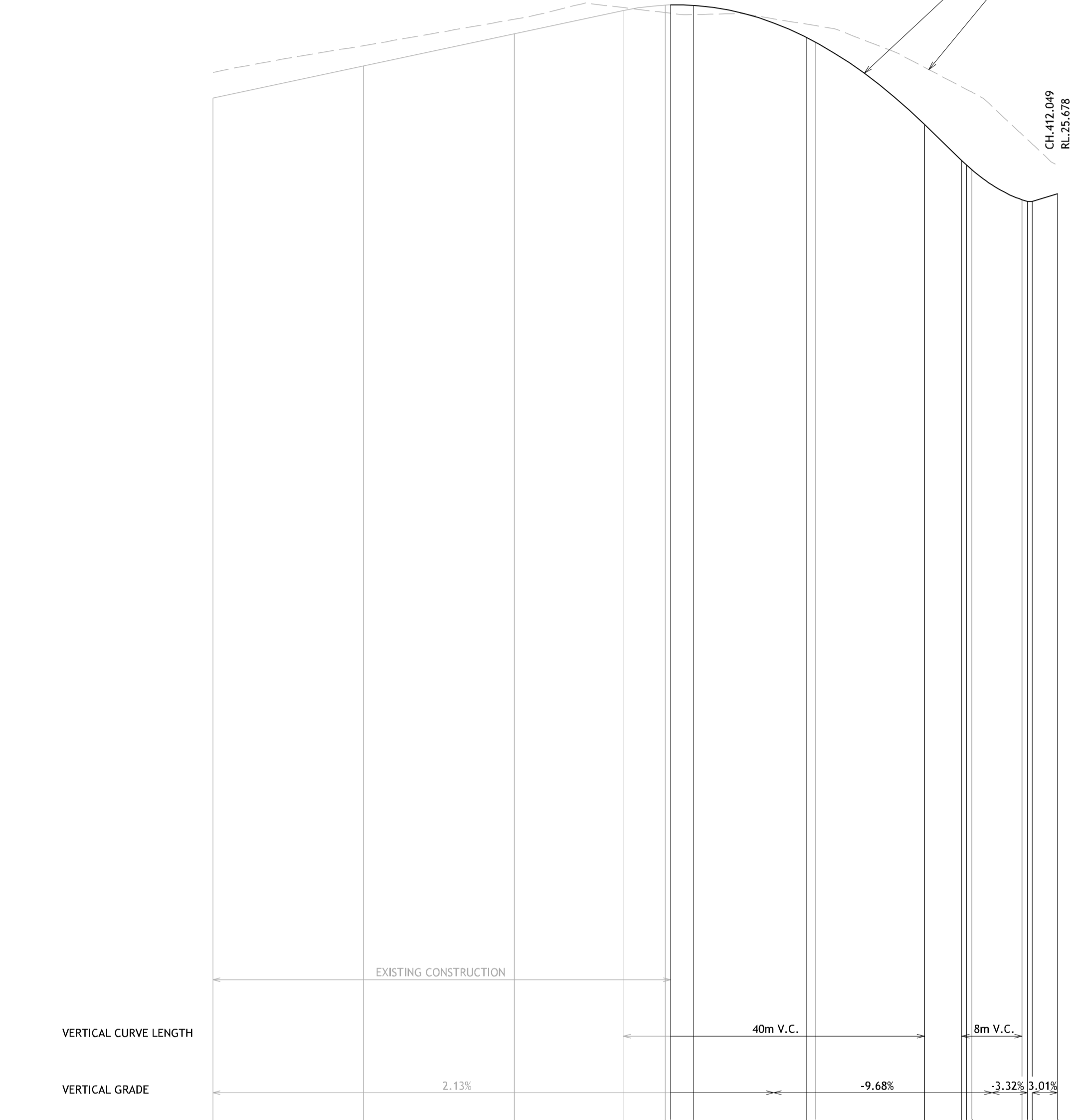
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CHECKED	B.WILSON	

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SCHEME	'POWLETT RIDGE ESTATE', WONTHAGGI - STAGE 3 DETAIL PLAN
CLIENT:	THE BOULEVARDE PTY LTD

BES REFERENCE: 1129-3	REV
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SHEET 2 OF 20	



TYPICAL SECTIONS
NOT TO SCALE



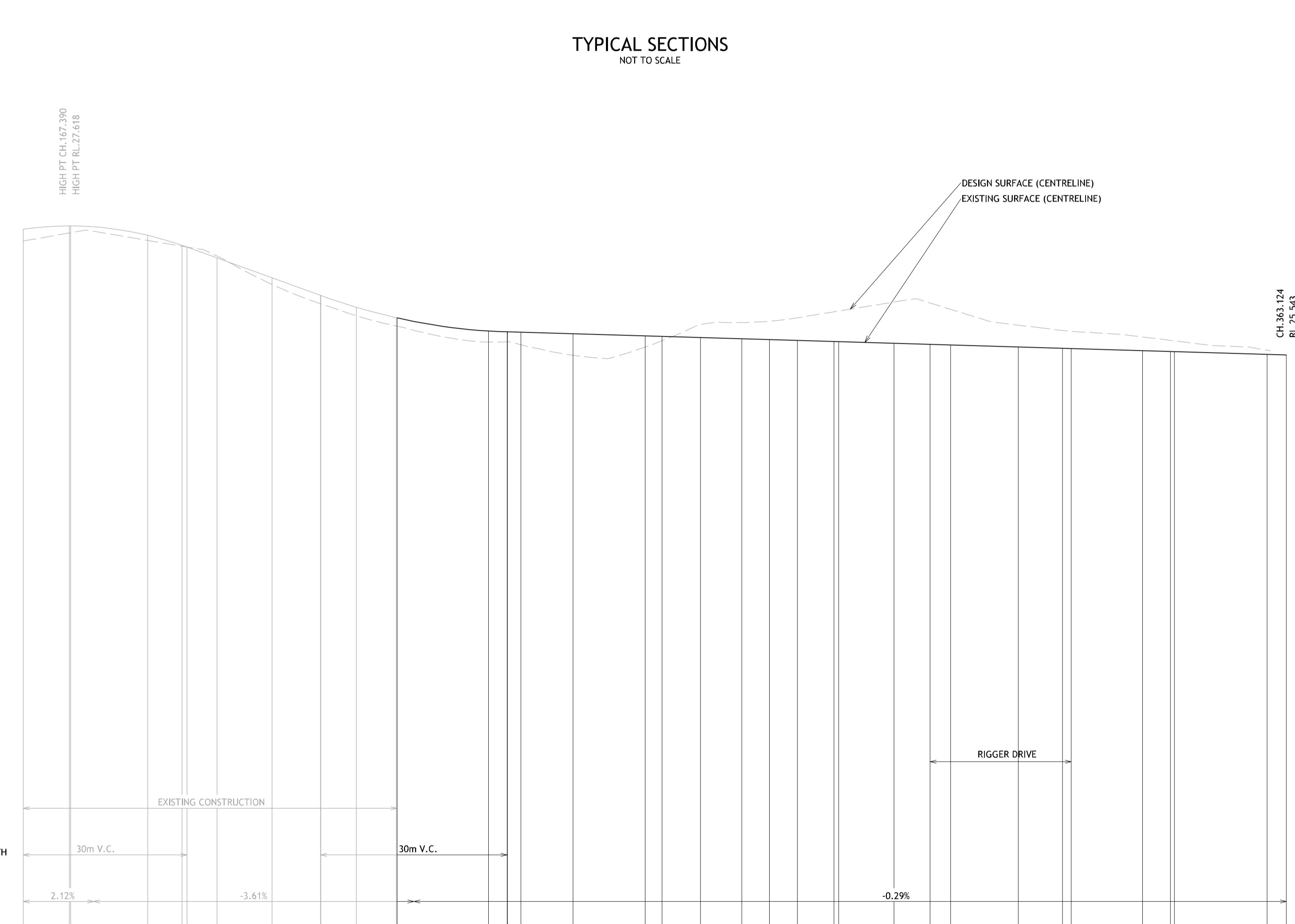
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DESIGN CENTRELINE	300.000	26.951	320.000	27.377	340.000	27.803	354.433	28.110	360.754	28.08	363.688	28.06	378.754	27.93	380.000	27.91	394.433	27.35	399.372	27.10	400.699	26.000	407.372	26.47	408.699	26.40	412.048	26.33
EXISTING SURFACE	300.000	27.29	320.000	27.77	340.000	28.00	354.433	28.15	360.754	28.08	363.688	28.06	378.754	27.93	380.000	27.91	394.433	27.35	399.372	27.10	400.699	26.000	407.372	26.47	408.699	26.40	412.048	26.33
CHAINAGE	300.000		320.000		340.000		354.433		360.754		363.688		378.754		380.000		394.433		399.372		400.699		407.372		408.699		412.048	

LONGITUDINAL SECTION
RIGGER DRIVE
SCALE 1:500(H), 1:50(V) (A1)

HORIZONTAL 1:500

VERTICAL 1:50



DATUM = 16.0

DESIGN CENTRELINE	160.000	27.565	167.390	27.618	180.000	27.466	185.333	27.29	191.158	27.13	200.000	26.68	207.390	26.36	207.810	26.36	213.541	26.310	220.000	26.01	220.104	00.000	234.810	25.75	237.835	25.75	240.000	25.71	248.403	25.54	258.811	25.881	260.000	25.67	262.724	25.77	268.871	26.03	275.555	26.06	280.000	26.08	284.463	26.14	290.353	26.24	291.122	26.25	300.000	26.39	305.818	26.38	309.122	26.28	320.000	26.02	327.122	25.94	328.518	25.92	340.000	25.83	344.855	25.78	345.123	25.77	360.000	25.62	361.123	25.62
EXISTING SURFACE	160.000	27.38	167.390	27.50	180.000	27.38	185.333	27.29	191.158	27.13	200.000	26.68	207.390	26.36	207.810	26.36	213.541	26.310	220.000	26.01	220.104	00.000	234.810	25.75	237.835	25.75	240.000	25.71	248.403	25.54	258.811	25.881	260.000	25.67	262.724	25.77	268.871	26.03	275.555	26.06	280.000	26.08	284.463	26.14	290.353	26.24	291.122	26.25	300.000	26.39	305.818	26.38	309.122	26.28	320.000	26.02	327.122	25.94	328.518	25.92	340.000	25.83	344.855	25.78	345.123	25.77	360.000	25.62	361.123	25.62
CHAINAGE	160.000		167.390		180.000		185.333		191.158		200.000		207.390		207.810		213.541		220.000		220.104		234.810		237.835		240.000		248.403		258.811		260.000		262.724		268.871		275.555		280.000		284.463		290.353		291.122		300.000		305.818		309.122		320.000		327.122		328.518		340.000		344.855		345.123		360.000		361.123	

LONGITUDINAL SECTION
RUNNEL DRIVE
SCALE 1:500(H), 1:50(V) (A1)

HORIZONTAL 1:500

VERTICAL 1:50

E			
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C			
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A	INITIAL PLAN PREPARATION		BW
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SURVEY NOBELIUS

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SCHEME 'POWLETT RIDGE ESTATE', WONTHAGGI - STAGE 3
RIGGER DRIVE & RUNNEL DRIVE LONGITUDINAL & TYP SECTIONS

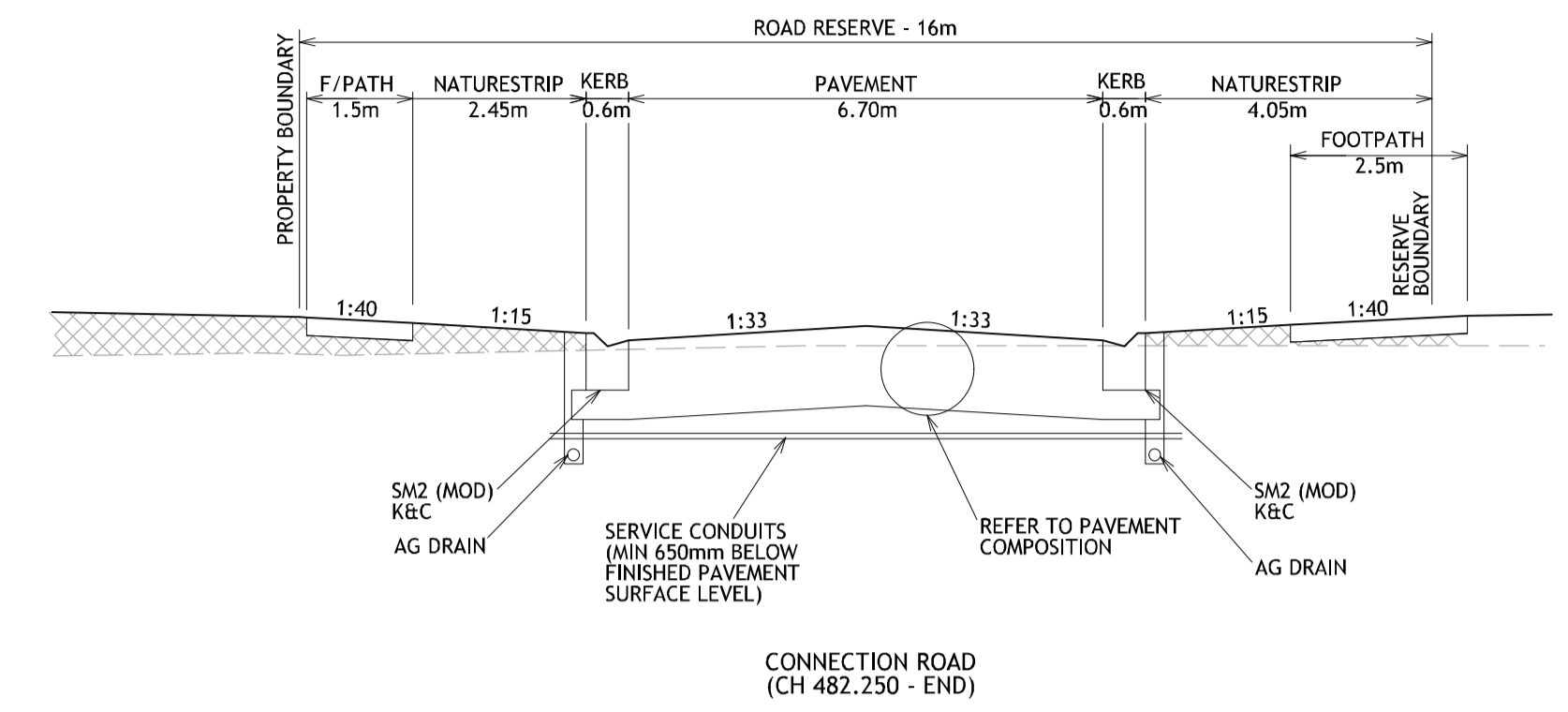
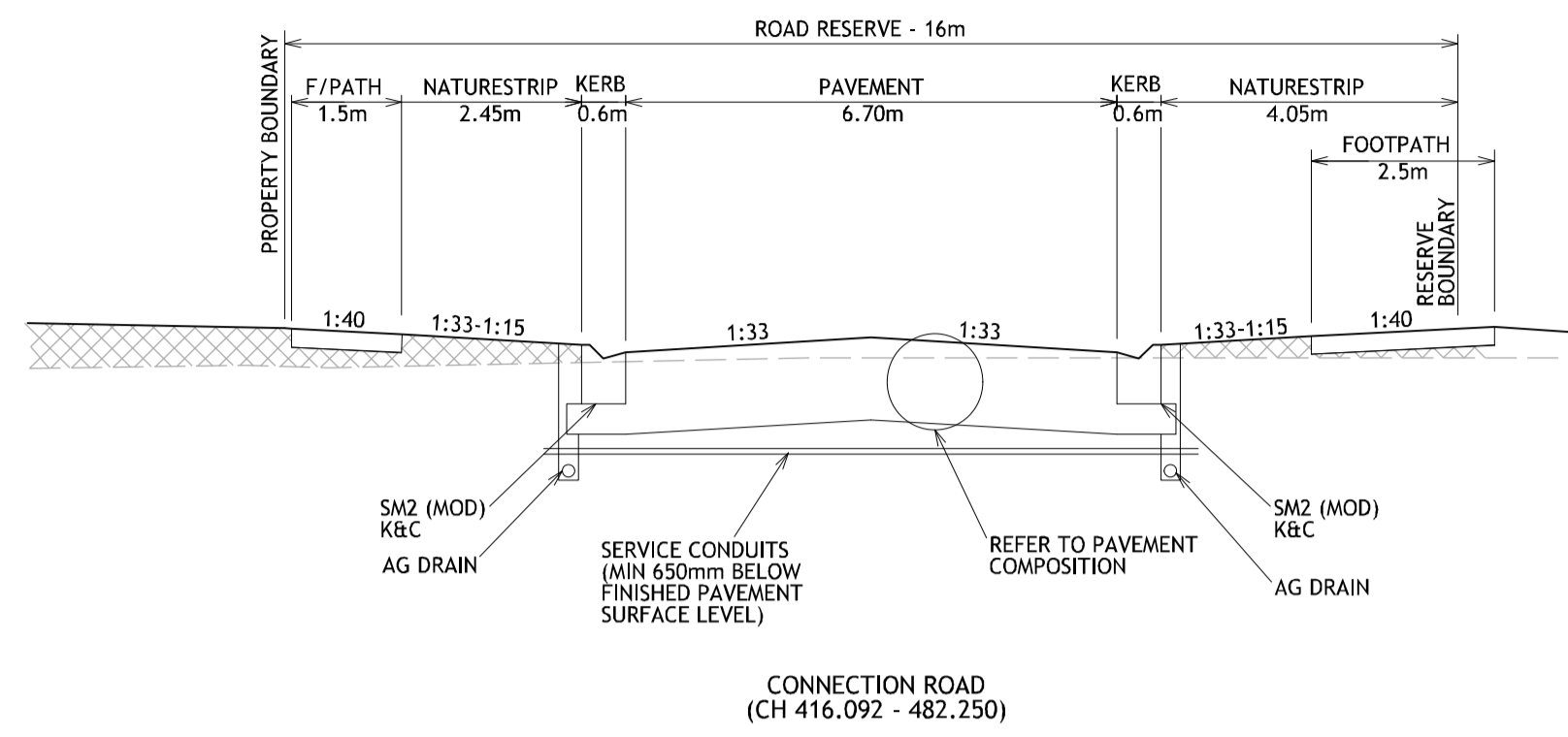
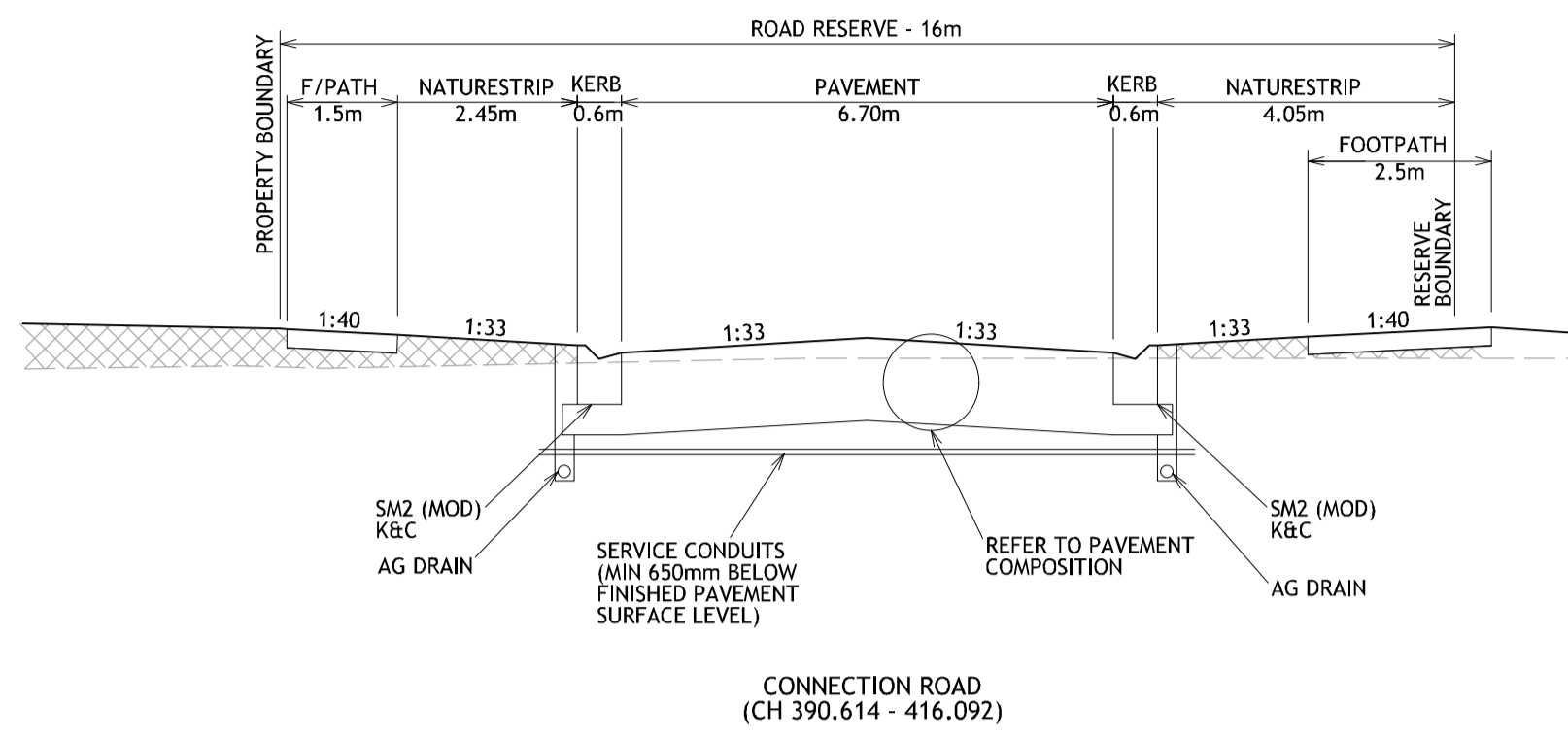
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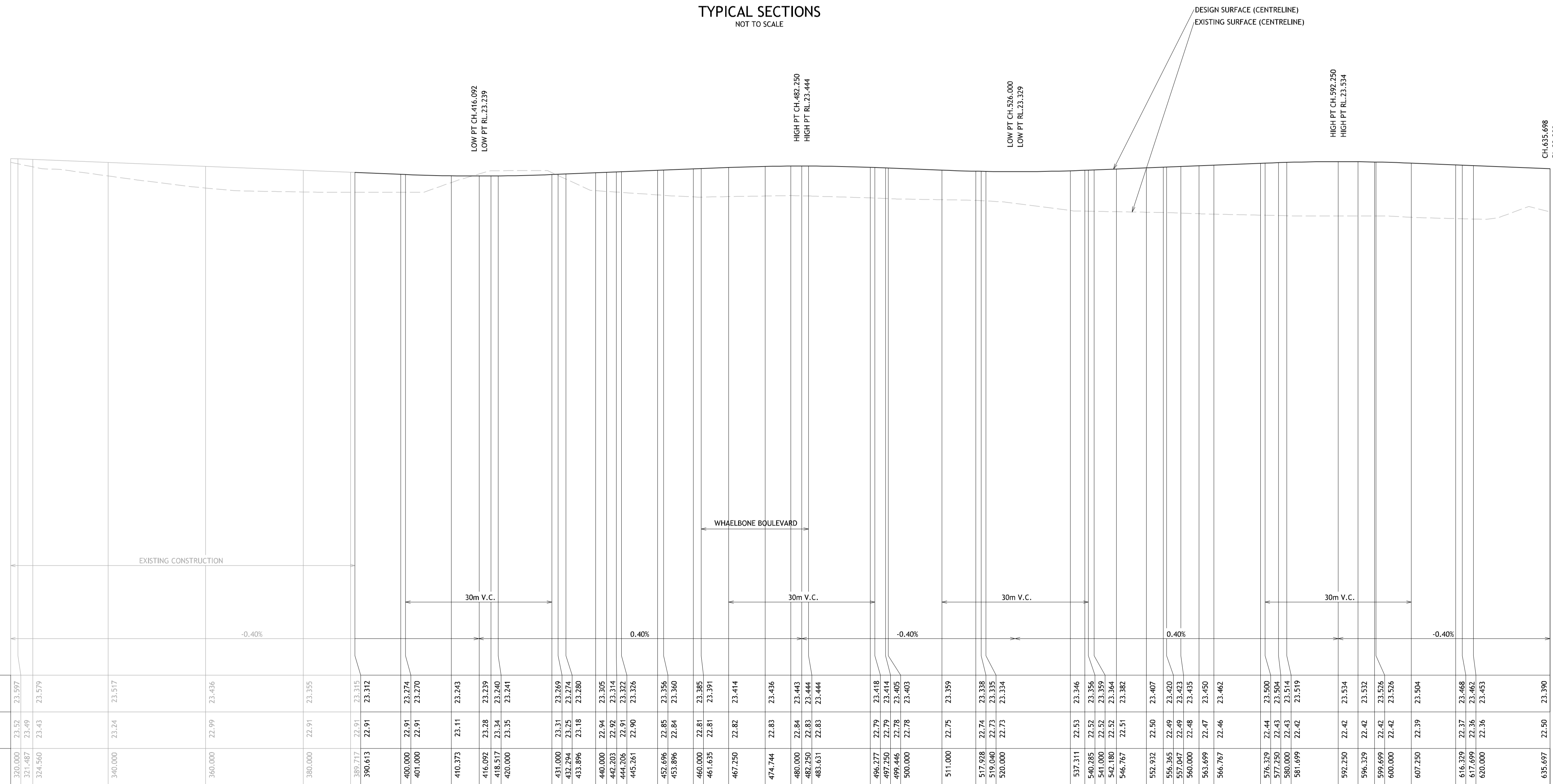
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SHEET 3 OF 20

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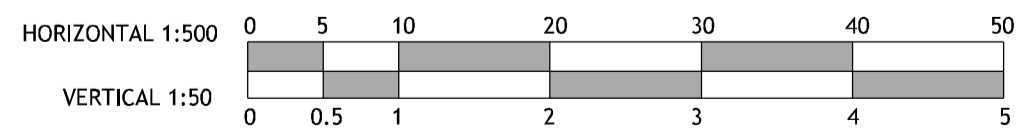


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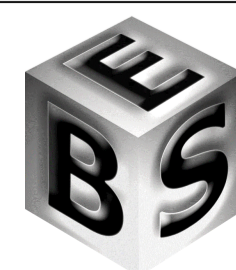


LONGITUDINAL SECTION

CONNECTION ROAD
SCALE 1:500(H), 1:50(V) (A1)



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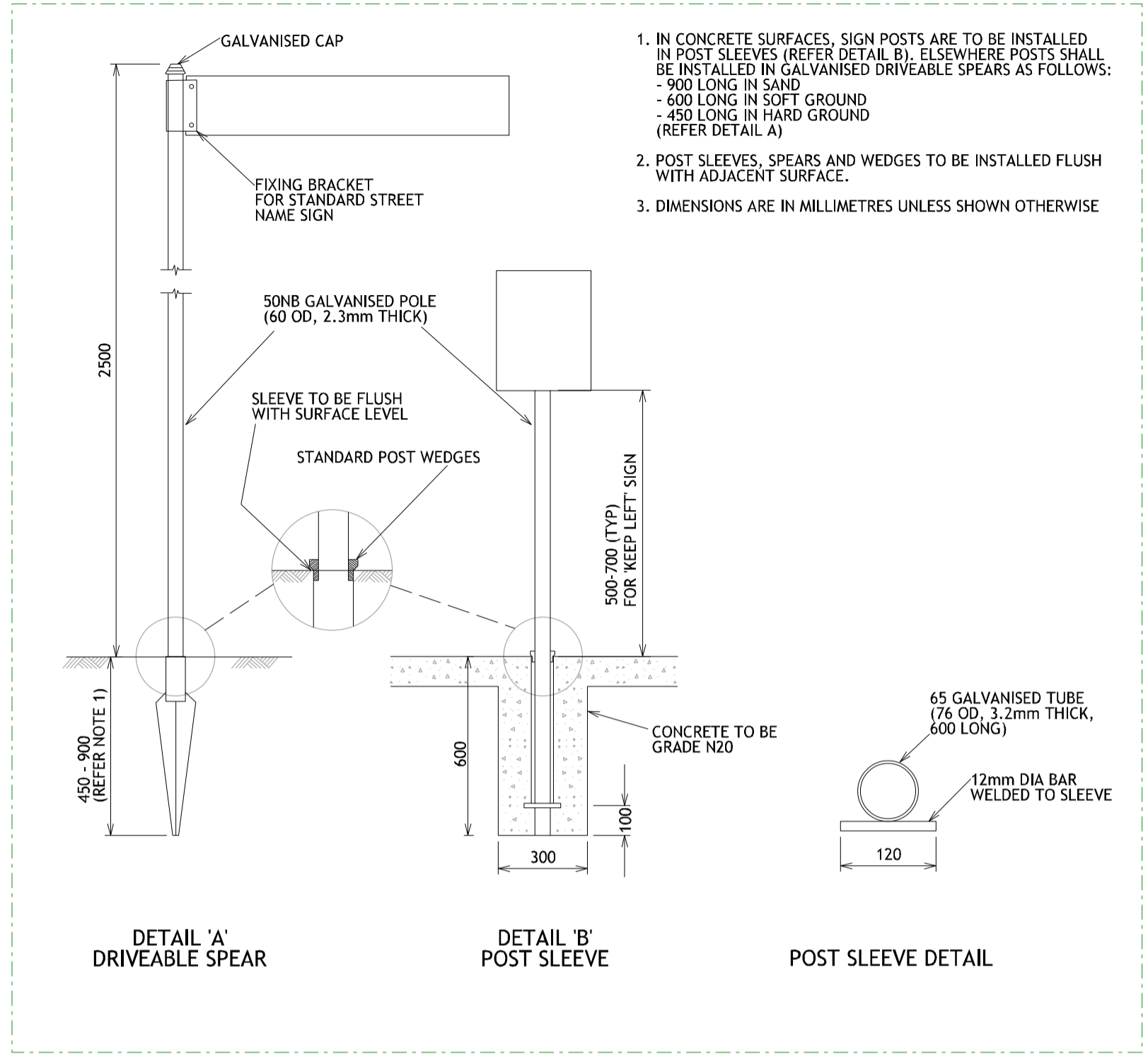
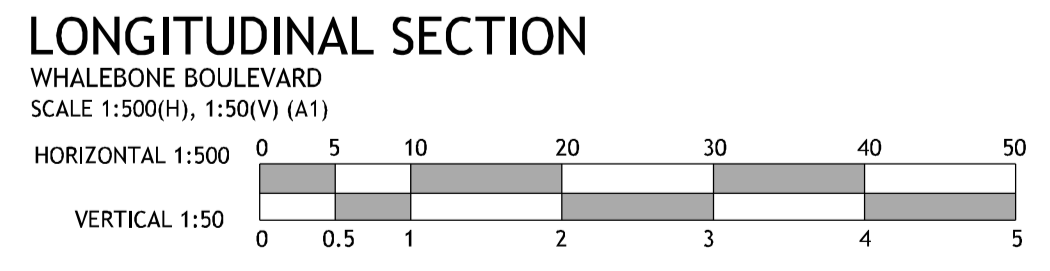
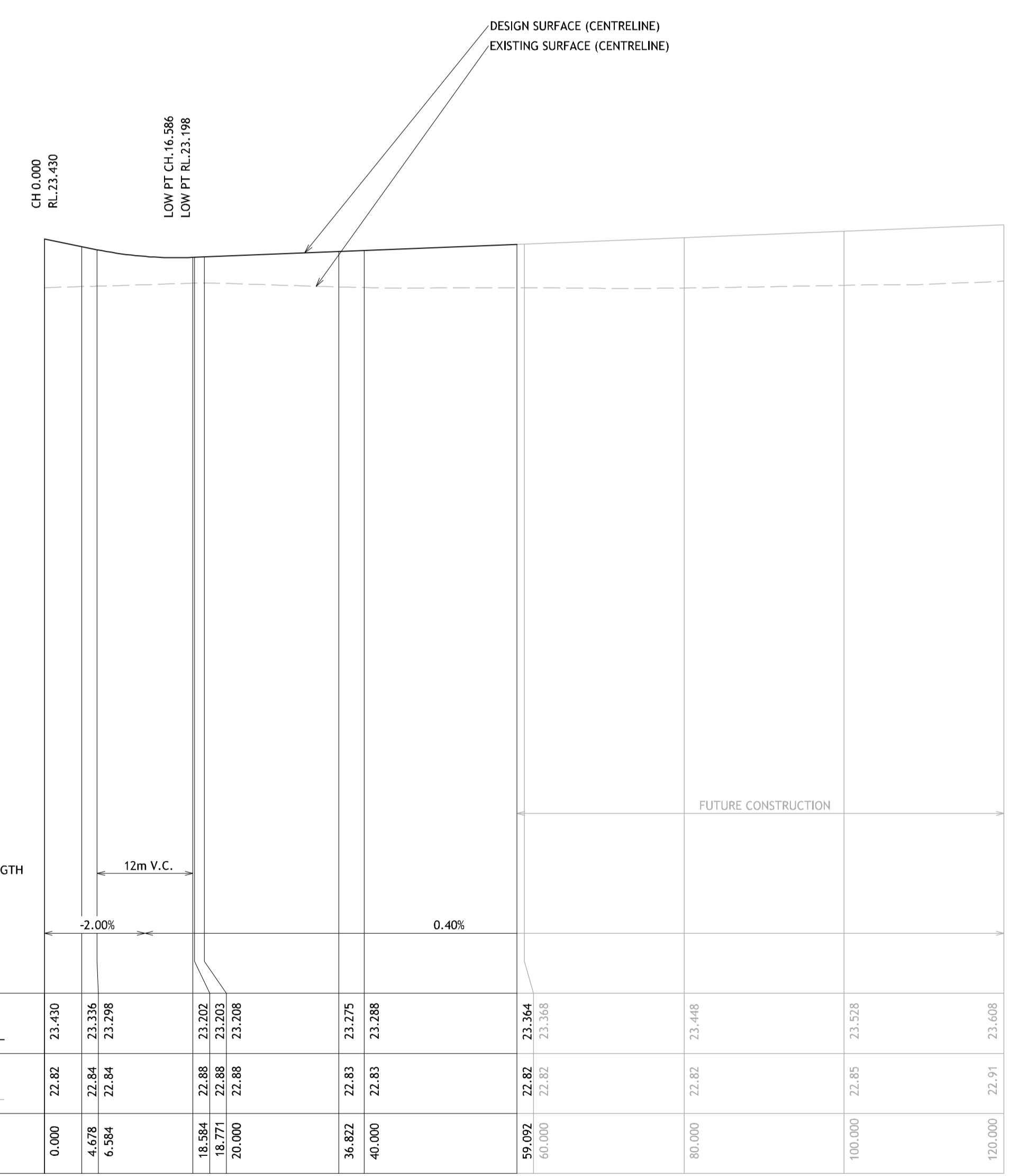
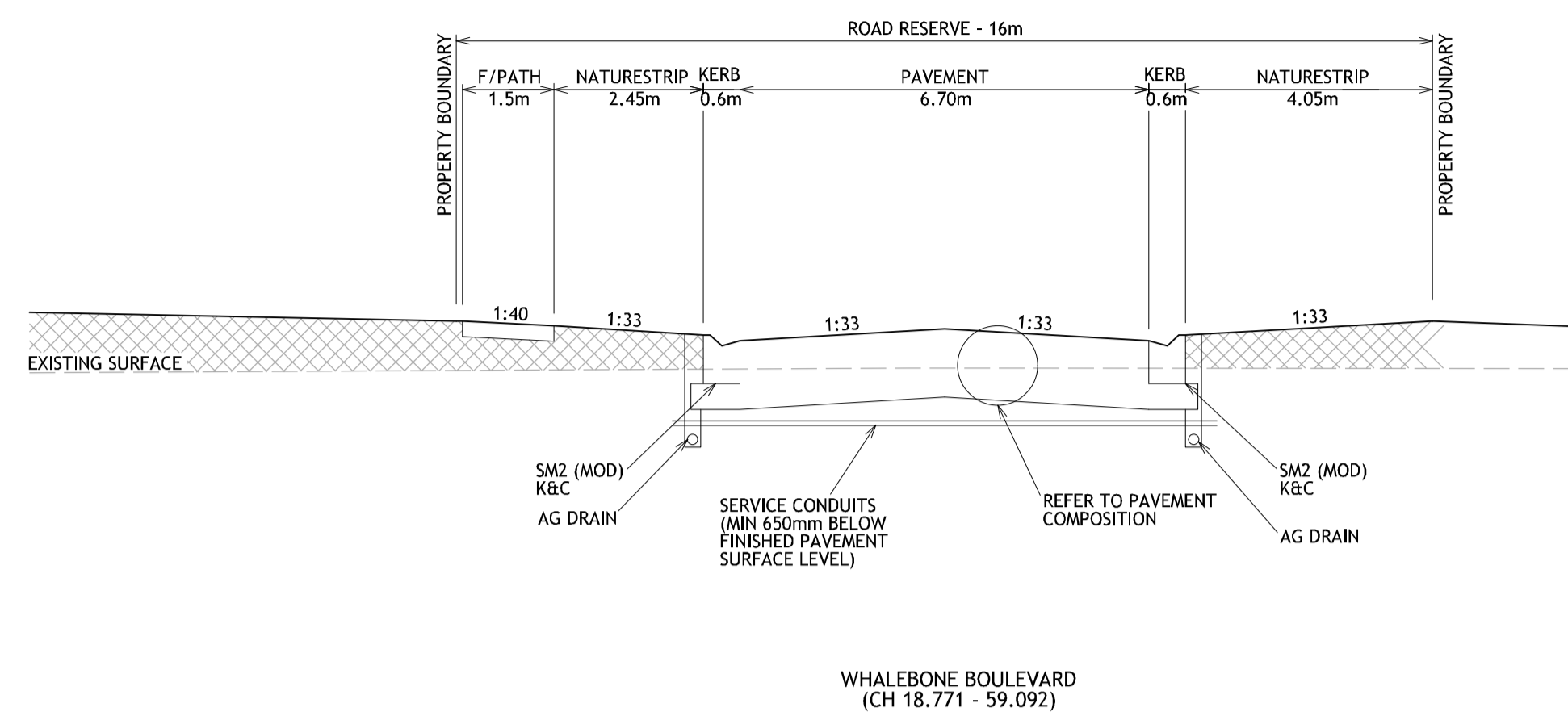
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CLIENT:	THE BOULEVARDE PTY LTD
CONNECTION ROAD LONGITUDINAL SECTION & TYPICAL SECTION	

BES REFERENCE: 1129-3	REV
3080/ 4	A
SHEET 4 OF 20	



TYPICAL FOOTING DETAILS FOR SIGNS
NOT TO SCALE

E			
D			
C			
B			
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SCHEME 'POWLETT RIDGE ESTATE', WONTHAGGI - STAGE 3
WHALEBONE BOULEVARD LONGITUDINAL & CROSS SECTIONS

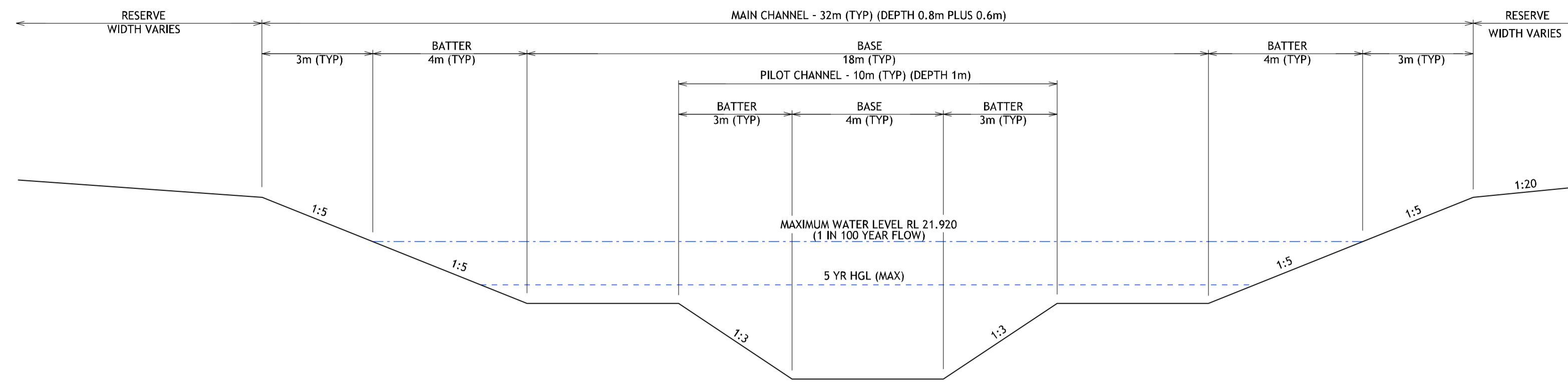
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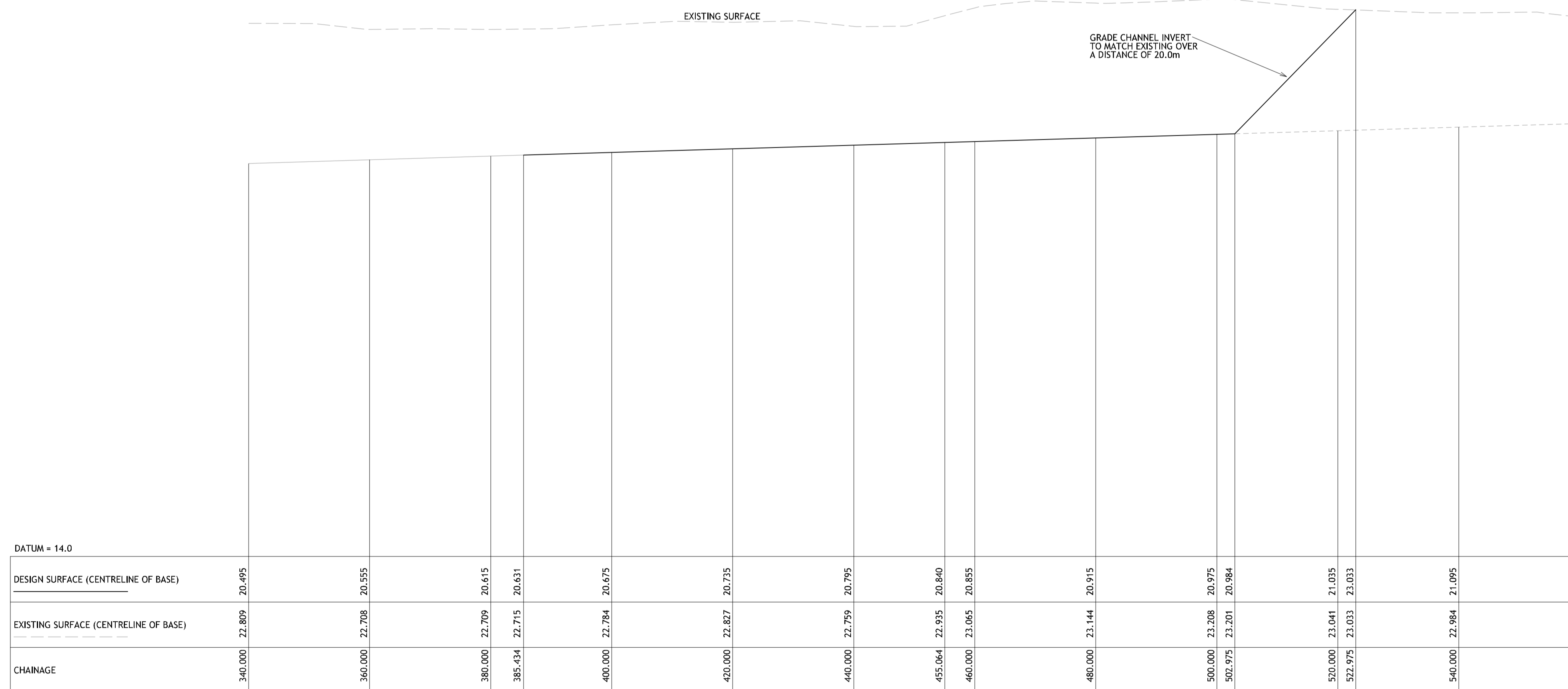
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SHEET 5 OF 20

REV A



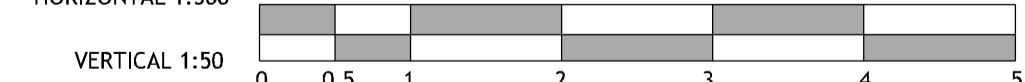
SECTION B-B
NOT TO SCALE



LONGITUDINAL SECTION

MAIN DRAINAGE CHANNEL
SCALE 1:500(H), 1:50(V) (A1)

HORIZONTAL 1:500



VERTICAL 1:50

WATERWAY PROPERTIES - ADOPTED SITE REFERENCE 20-21

DERIVED FROM ENGENY DRAINAGE STRATEGY FOR WONTHAGGI NORTH EAST PSP

Reference	Design Flow Q_{ref} m ³ /s	Design Flow Q_{ref} m ³ /s	Length L m	NS Elev m	NS Elev d/B m	Grade (1 in ...)	Manning's n	Side Slope	Pilot Channel					
									Base Width (B) m	Pilot Channel Depth (d) m	Pilot Channel x-section Area m ²	Velocity v_p m/s	Pilot Channel Top Width m	Pilot Channel Q_{ref} m ³ /s
Eastern Waterway														
3-4	13.12	2.62	367	23.50	22.25	293	0.050	3	6.5	0.80	5.0	0.72	10.10	3.58
4-5	13.38	2.68	404	22.25	19.65	155	0.050	3	7.0	1.00	10.0	1.32	13.00	13.25
5-6	28.96	5.79	729	19.65	18.73	793	0.050	3	10.0	1.00	13.0	0.81	16.00	7.93
6-7	29.77	5.95	740	18.73	17.00	428	0.050	3	10.0	1.00	13.0	0.83	16.00	10.80
7-8	39.95	7.99	274	17.00	16.30	392	0.050	3	10.0	1.00	13.0	0.87	16.00	11.29
8-9	38.30	7.66	545	16.30	14.90	390	0.050	3	10.0	1.00	13.0	0.87	16.00	11.32
Western Waterway														
17-18	13.87	2.77	306	26.81	24.90	160	0.050	3	3.0	0.80	4.3	1.04	7.80	4.51
19-20	17.04	3.41	373	24.80	23.00	207	0.050	3	4.0	0.80	5.1	0.95	8.80	4.86
20-21	18.48	3.70	527	23.00	21.42	333	0.050	3	4.0	1.00	7.0	0.85	10.00	5.92
22-23	24.07	4.81	705	21.17	18.00	222	0.050	3	4.0	1.00	7.0	1.04	10.00	7.25
23-24	24.01	4.80	834	18.00	16.00	417	0.050	3	4.0	1.00	7.0	0.76	10.00	5.29
24-25	24.45	4.89	279	16.00	14.90	253	0.050	3	4.0	1.00	7.0	0.97	10.00	6.79

Reference	Design Flow Q_{ref} m ³ /s	Main Channel Depth (d) m	Base Width (B) m	Manning's n	Side Slope	Area A m ²	Velocity v m/s	Freeboard m	Top Width with freeboard m	Channel Capacity Q_{ref} m ³ /s
Eastern Waterway										
3-4	9.54	0.60	18.10	0.05	5	12.7	0.76	0.60	30.10	9.60
4-5	0.13	1.10	21.00	0.05	5	29.2	1.50	0.60	38.00	43.74
5-6	21.02	1.10	24.00	0.05	5	32.5	0.67	0.60	41.00	21.83
6-7	18.97	1.10	24.00	0.05	5	32.5	0.92	0.60	41.00	29.72
7-8	28.66	1.10	24.00	0.05	5	32.5	0.96	0.60	41.00	31.05
8-9	26.98	1.10	24.00	0.05	5	32.5	0.96	0.60	41.00	31.14
Western Waterway										
17-18	9.36	0.80	7.80	0.05	5	9.4	1.11	0.60	21.80	10.52
19-20	12.18	0.80	16.80	0.05	5	16.6	1.06	0.60	30.80	17.64
20-21	12.57	0.80	18.00	0.05	5	17.6	0.84	0.60	32.00	14.80
22-23	16.82	1.00	18.00	0.05	5	23.0	1.17	0.60	34.00	26.93
23-24	18.72	1.00	18.00	0.05	5	23.0	0.85	0.60	34.00	19.66
24-25	17.66	1.00	18.00	0.05	5	23.0	1.10	1.60	44.00	25.23

E			
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A	INITIAL PLAN PREPARATION		BW
INDEX	DATE	REVISION	APPD



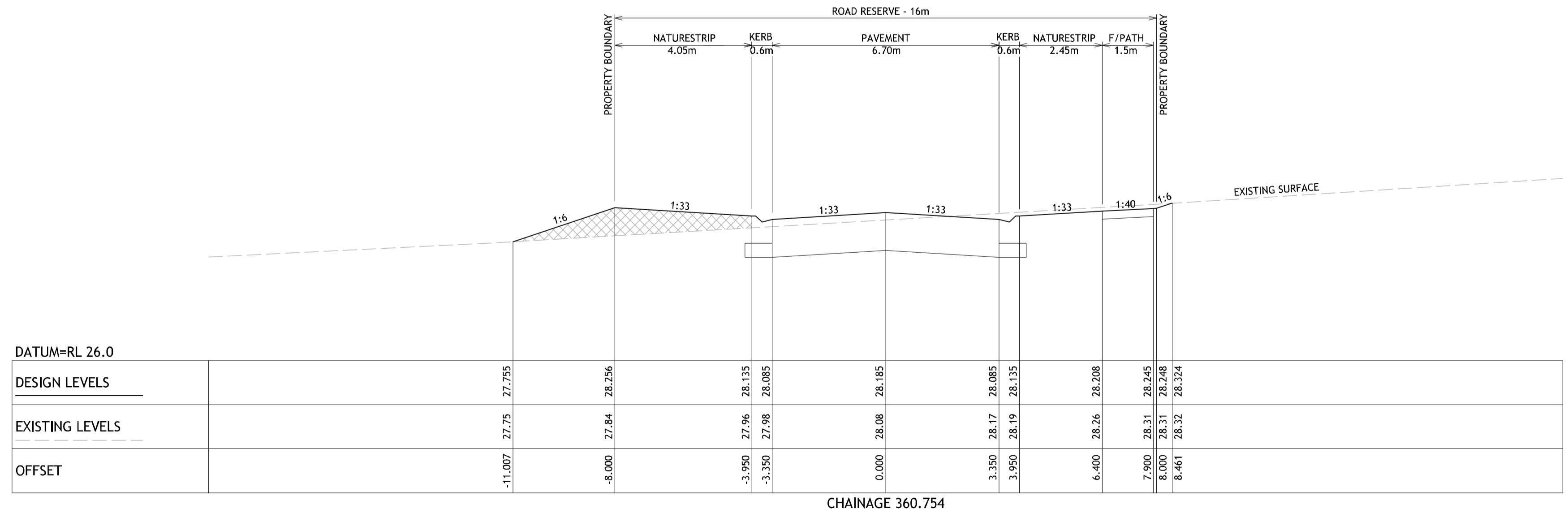
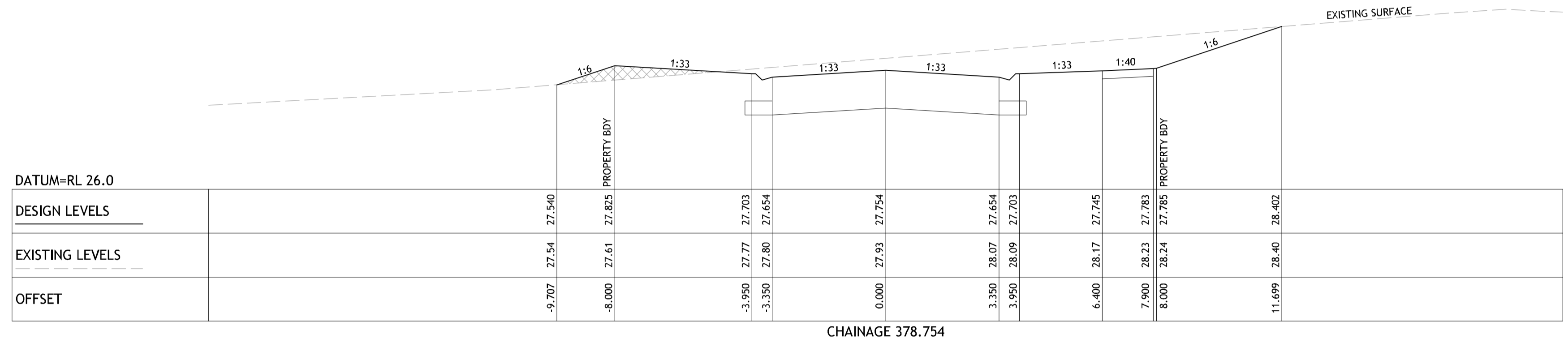
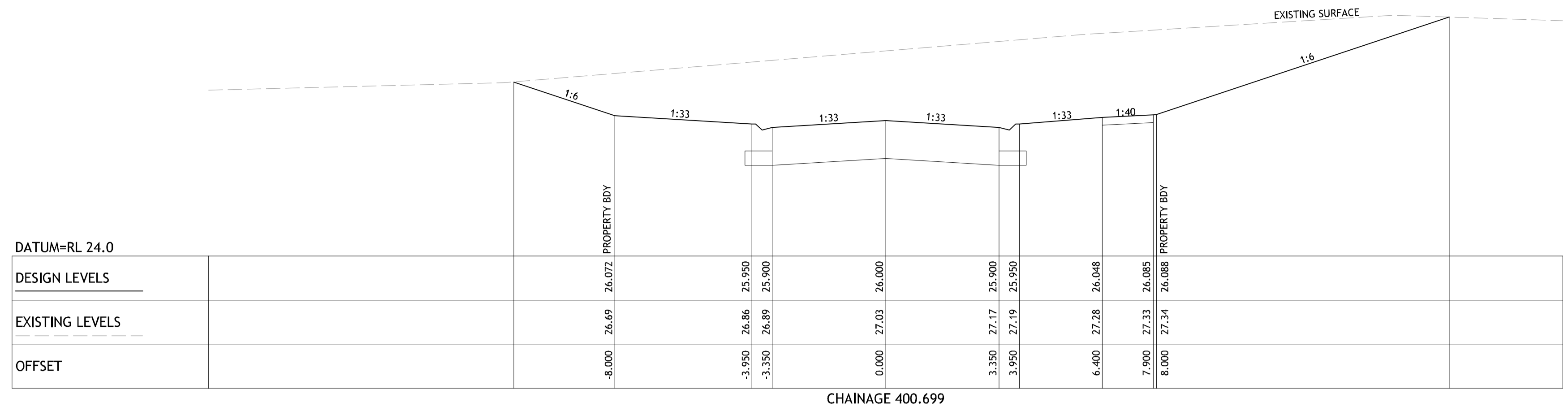
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PLAN OF SUBDIVISION:	PS838137Y
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DESIGN	M.BROSAN
CHECKED	B.WILSON

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SCHEME	'POWLETT RIDGE ESTATE', WONTHAGGI - STAGE 3 MAIN DRAINAGE CHANNEL LONGITUDINAL/CROSS SECTION
CLIENT:	THE BOULEVARDE PTY LTD

BES REFERENCE: 1129-3	REV
3080/ 6	A
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CROSS SECTIONS

RIGGER DRIVE

SCALE 1:100 (H), 1:50 (V) (A1)



DENOTES SELECT FILL, FOR FILL DEPTHS GREATER THAN 300mm COMPACTION OF FILL TO BE UNDERTAKEN IN ACCORDANCE WITH TABLE 204.131 COMPACTION REQUIREMENTS SCALE C OF VICROADS SPECIFICATION
 DENOTES CRUSHED ROCK BACKFILL COMPACTED TO NOT LESS THAN 95% OF AS 1289.5.2.1 (MODIFIED)

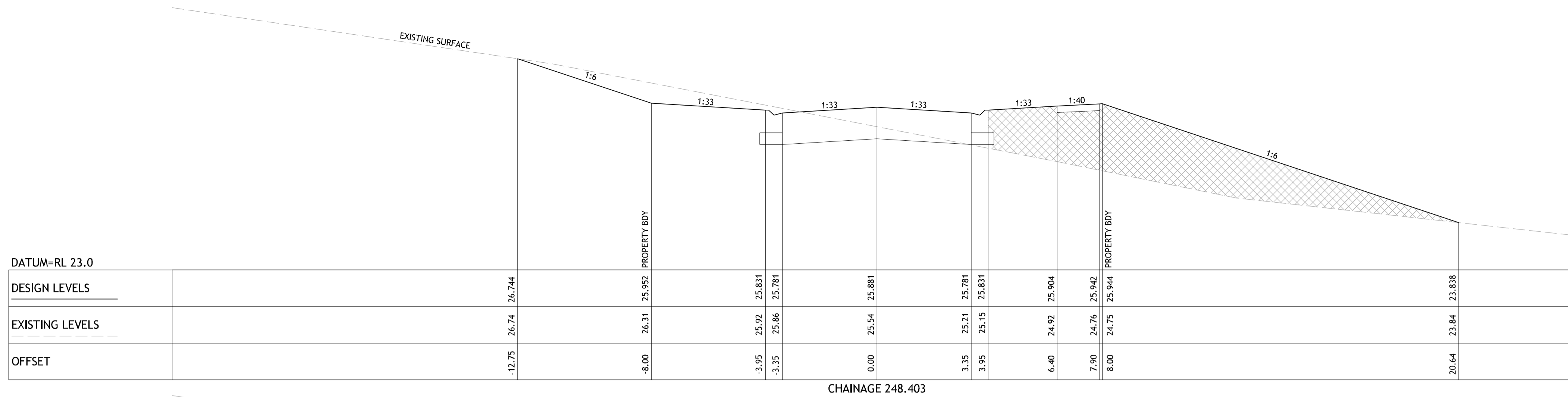
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A	INITIAL PLAN PREPARATION		BW
INDEX	DATE	REVISION	APPD

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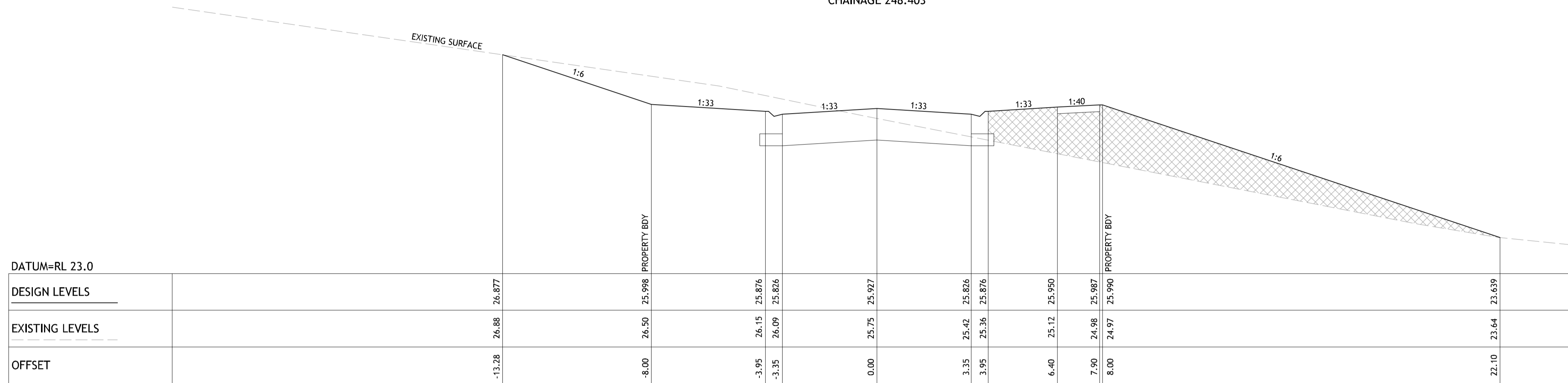
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SCHEME	'POWLETT RIDGE ESTATE', WONTHAGGI - STAGE 3 RIGGER DRIVE CROSS SECTIONS
CLIENT:	THE BOULEVARDE PTY LTD

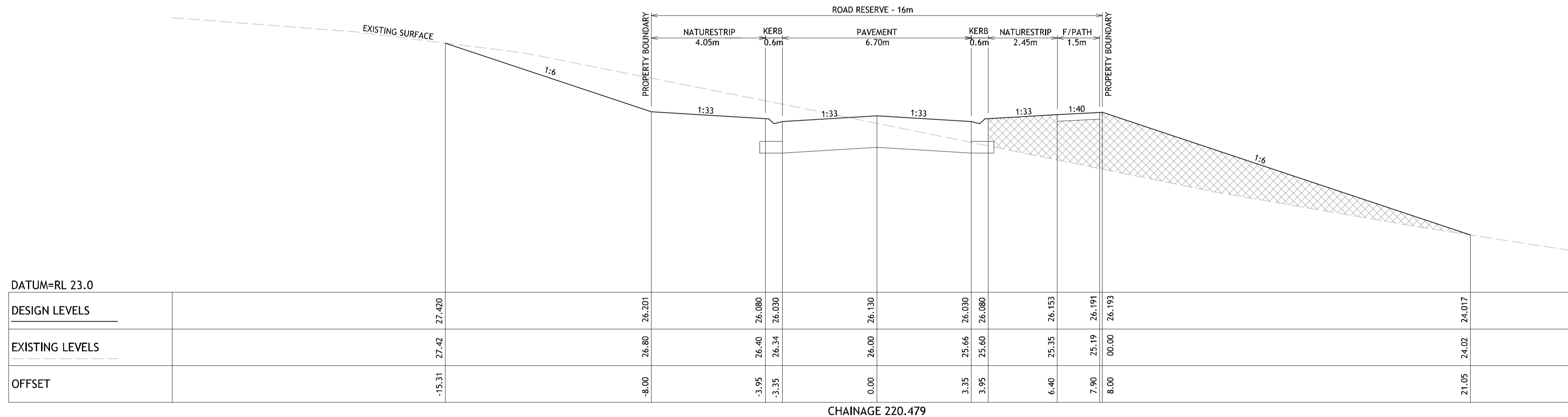
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CHAINAGE 248.403



CHAINAGE 234.810

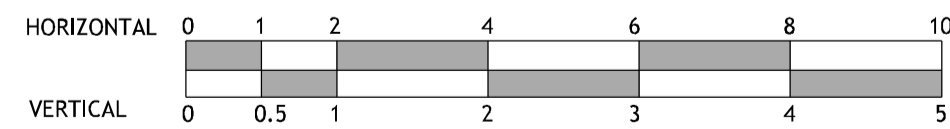


CHAINAGE 220.479

CROSS SECTIONS

RUNNEL DRIVE

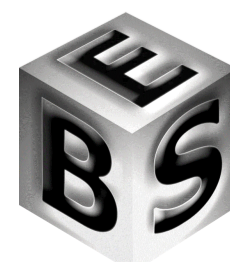
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DENOTES CRUSHED ROCK BACKFILL COMPACTION TO NOT LESS THAN 95% OF AS 1289.5.2.1 (MODIFIED)

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A	INITIAL PLAN PREPARATION	BW	
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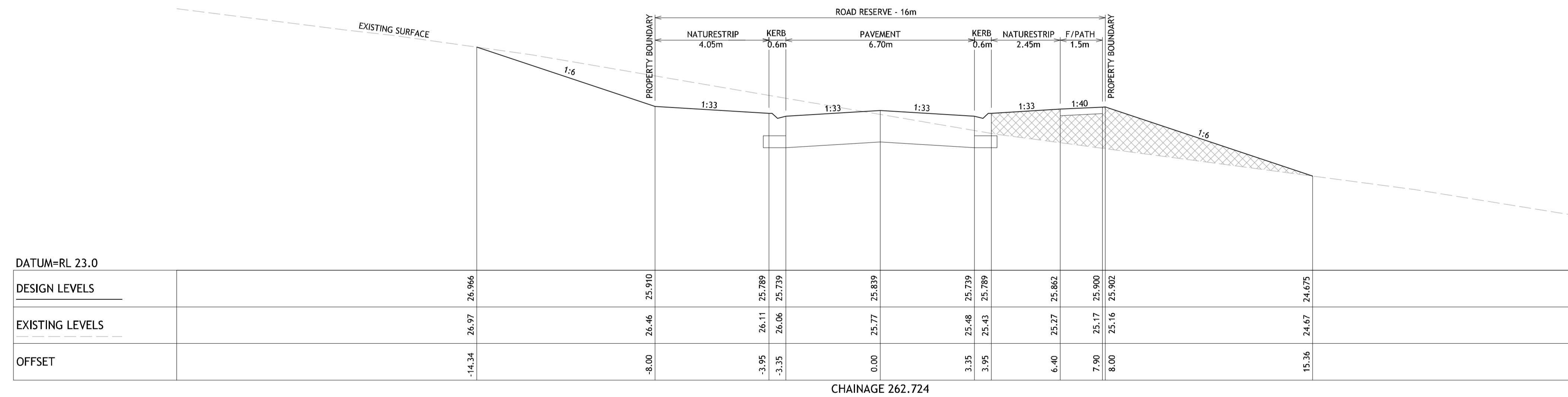
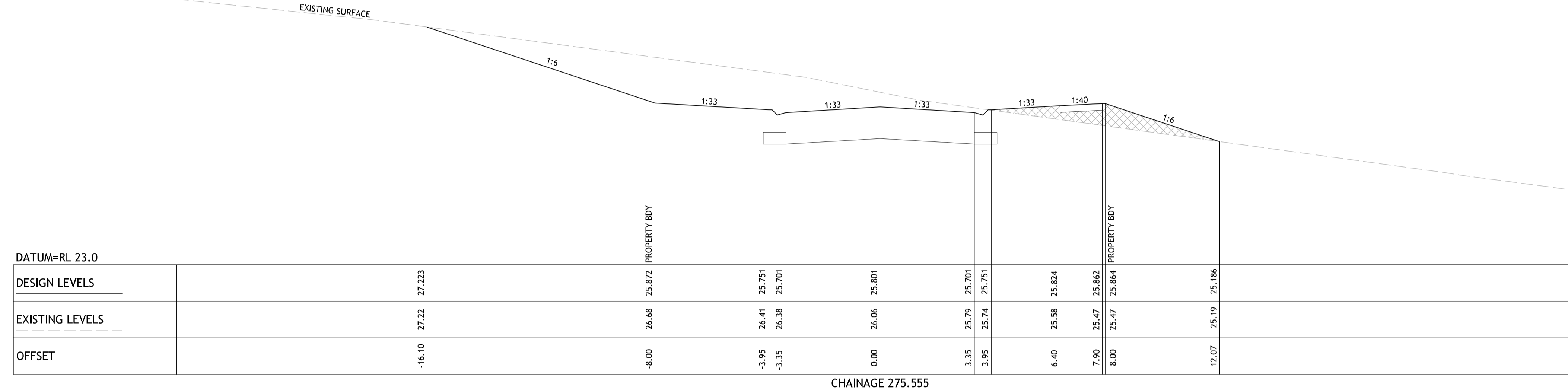
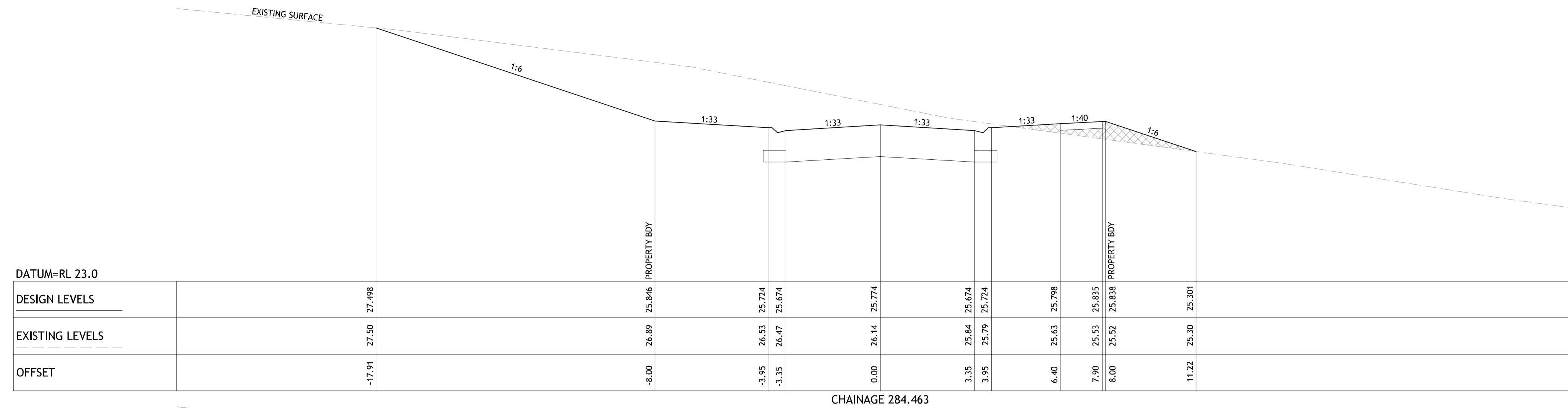
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 RUNNEL DRIVE CROSS SECTIONS
 CLIENT: THE BOULEVARDE PTY LTD

BES REFERENCE: 1129-3
 3080/ 8
 SHEET 8 OF 20

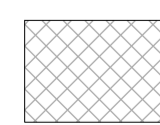
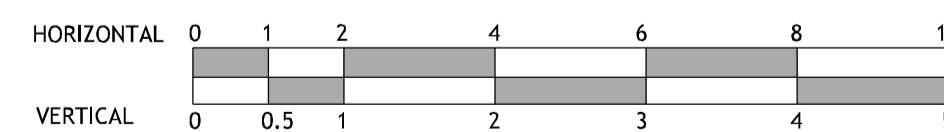
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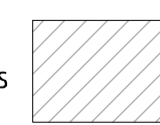
CROSS SECTIONS

RUNNEL DRIVE

SCALE 1:100 (H), 1:50 (V) (A1)

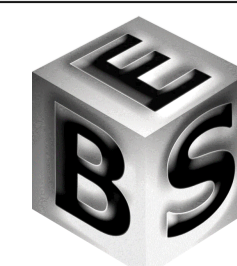


DENOTES SELECT FILL, FOR FILL DEPTHS GREATER THAN 300mm COMPACTION OF FILL TO BE UNDERTAKEN IN ACCORDANCE WITH TABLE 204.131 COMPACTION REQUIREMENTS SCALE C OF VICROADS SPECIFICATION



DENOTES CRUSHED ROCK BACKFILL COMPACTED TO NOT LESS THAN 95% OF AS 1289.5.2.1 (MODIFIED)

E			
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C			
B			
A	INITIAL PLAN PREPARATION		BW
INDEX	DATE	REVISION	APPD



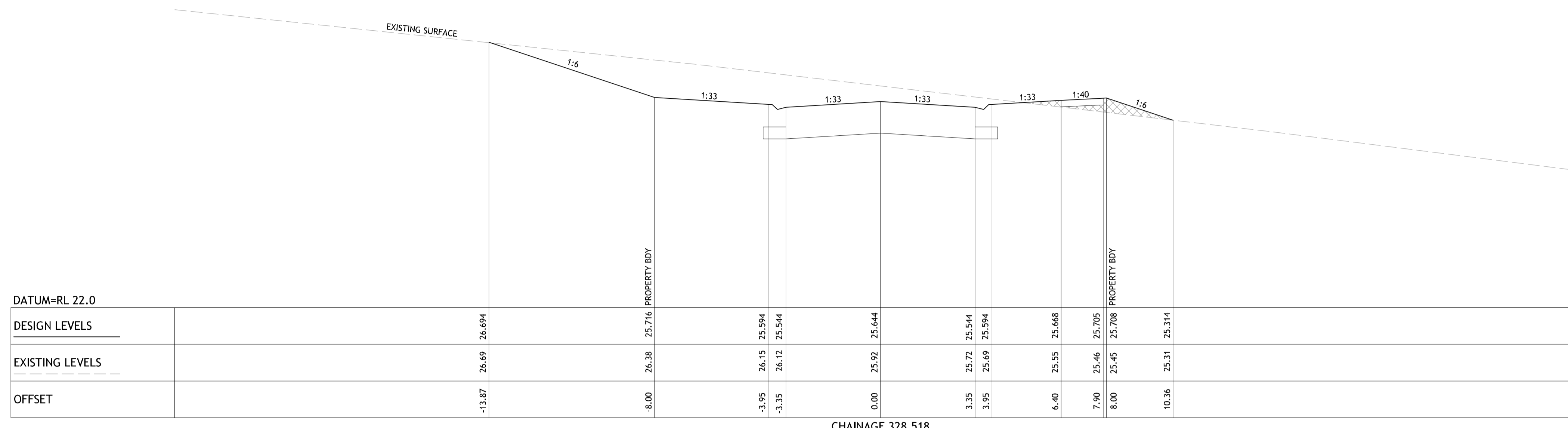
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DESIGN	M.BROSNAN
CHECKED	B.WILSON

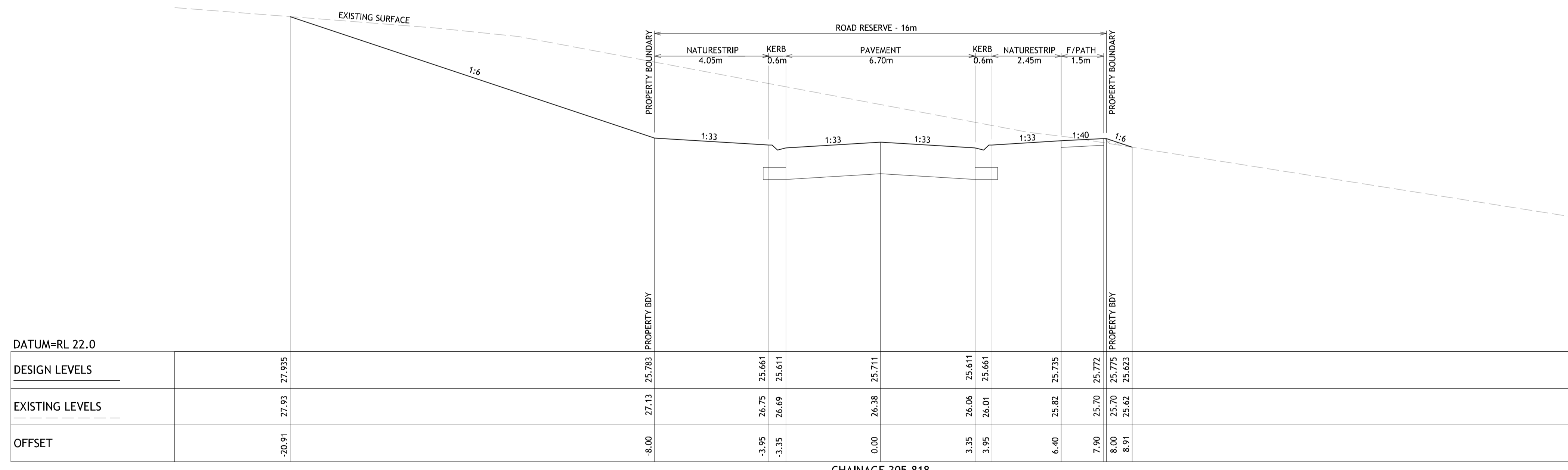
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CLIENT:	THE BOULEVARDE PTY LTD

BES REFERENCE: 1129-3	REV
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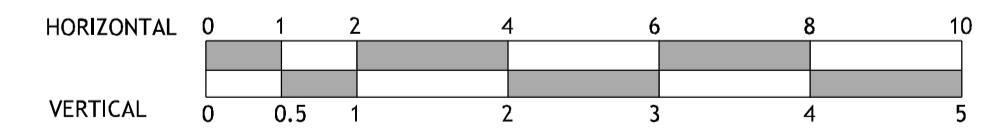


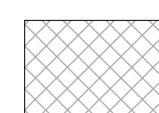

CHAINAGE 328.518



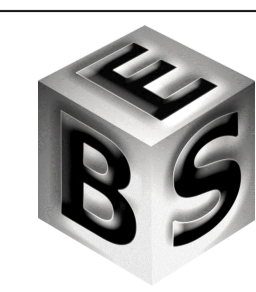
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CROSS SECTIONS
RUNNEL DRIVE
SCALE 1:100 (H), 1:50 (V) (A1)



 DENOTES SELECT FILL, FOR FILL DEPTHS GREATER THAN 300mm COMPACTION OF FILL TO BE UNDERTAKEN IN ACCORDANCE WITH TABLE 204.131 COMPACTION REQUIREMENTS SCALE C OF VICROADS SPECIFICATION
 DENOTES CRUSHED ROCK BACKFILL COMPACTED TO NOT LESS THAN 95% OF AS 1289.5.2.1 (MODIFIED)

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A	INITIAL PLAN PREPARATION		BW
INDEX	DATE	REVISION	APPD

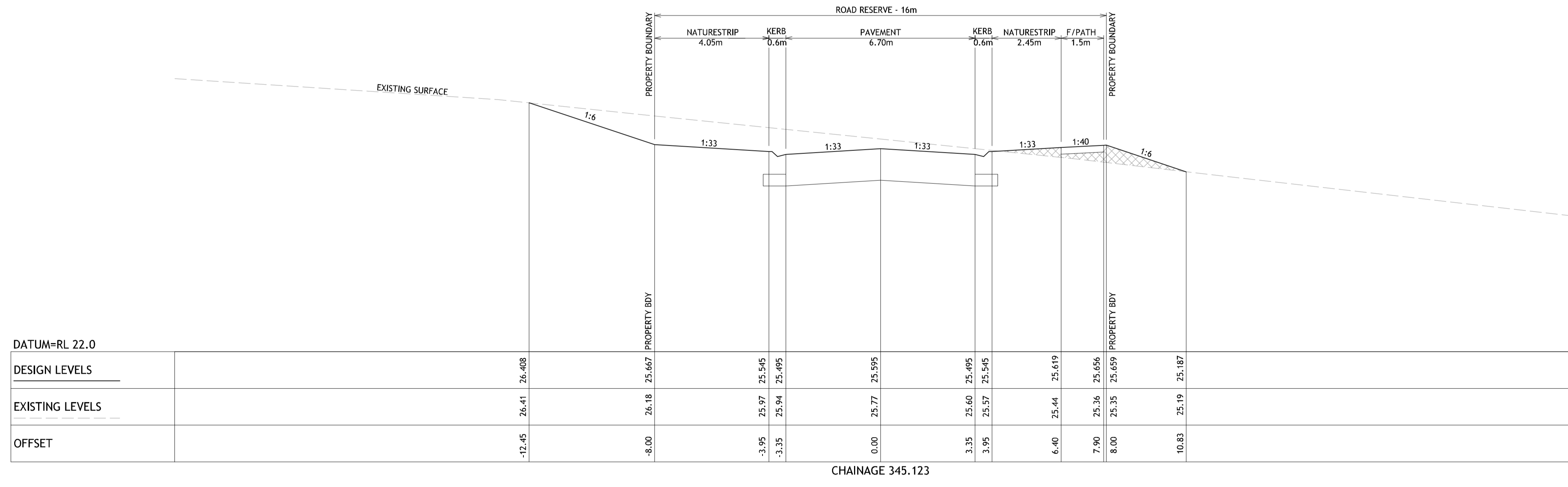
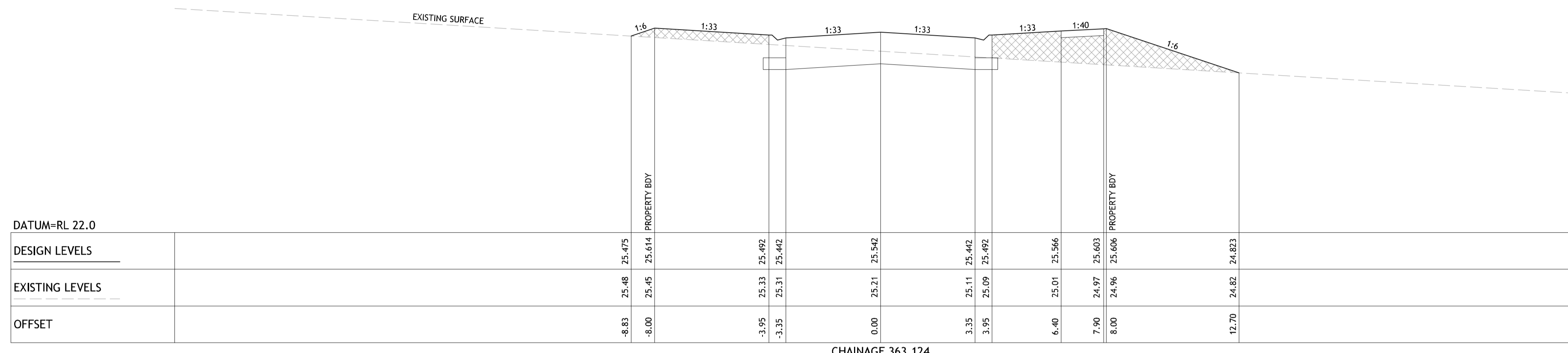


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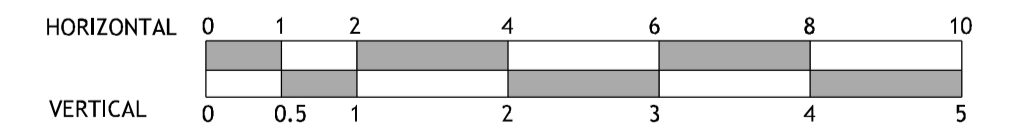
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CROSS SECTIONS
RUNNELL DRIVE



DENOTES SELECT FILL, FOR FILL DEPTHS GREATER THAN 300mm COMPACTION OF FILL TO BE UNDERTAKEN IN ACCORDANCE WITH TABLE 204.131 COMPACTION REQUIREMENTS SCALE C OF VICROADS SPECIFICATION
 DENOTES CRUSHED ROCK BACKFILL, COMPACTION TO NOT LESS THAN 95% OF AS 1289.5.2.1 (MODIFIED)

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A	INITIAL PLAN PREPARATION		BW
INDEX	DATE	REVISION	APPD

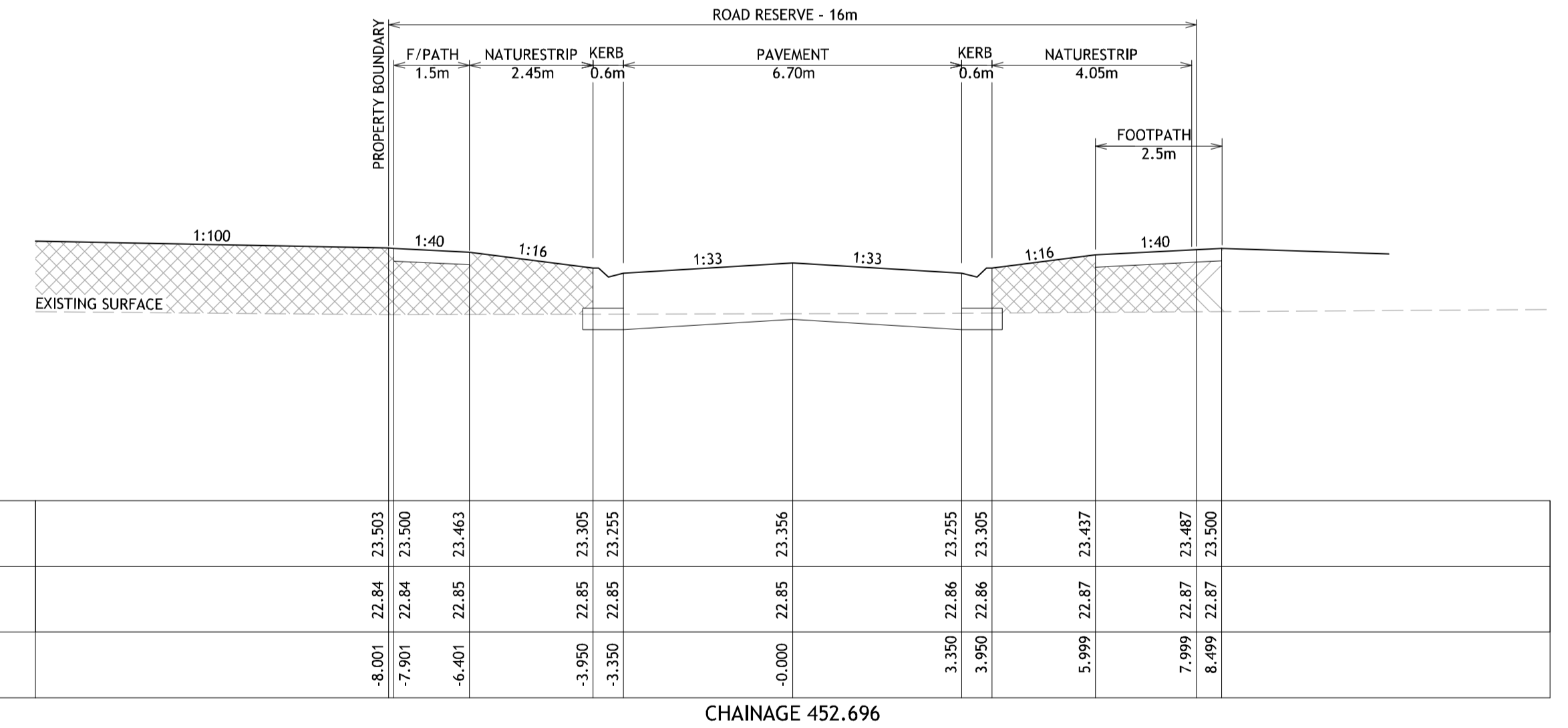
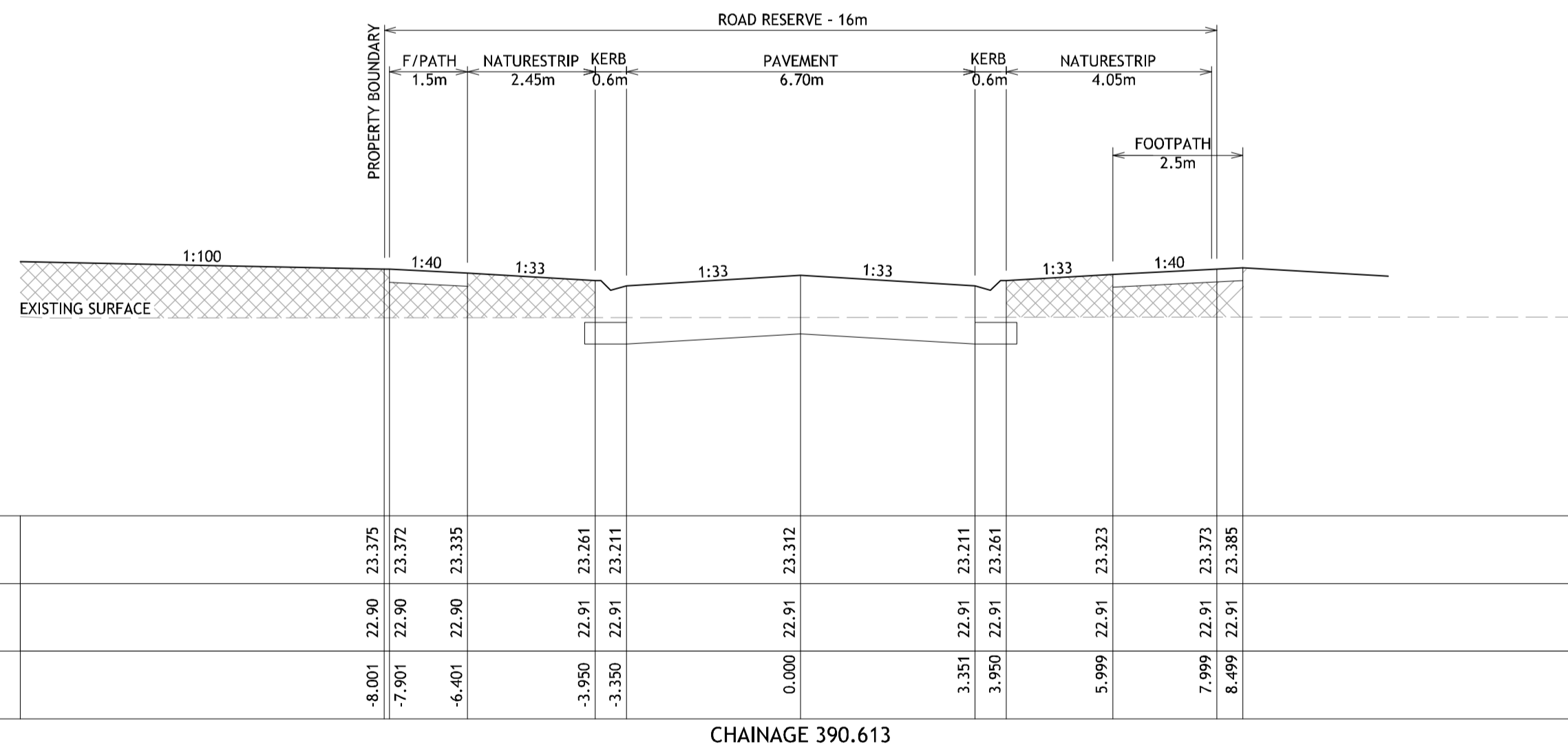
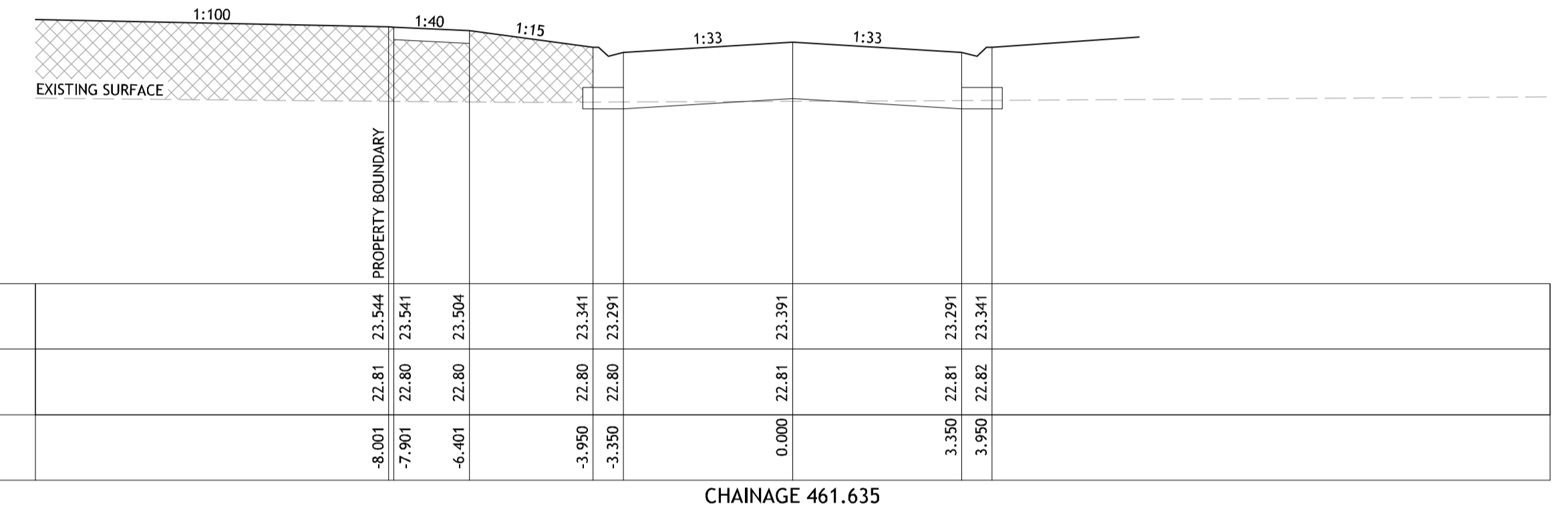
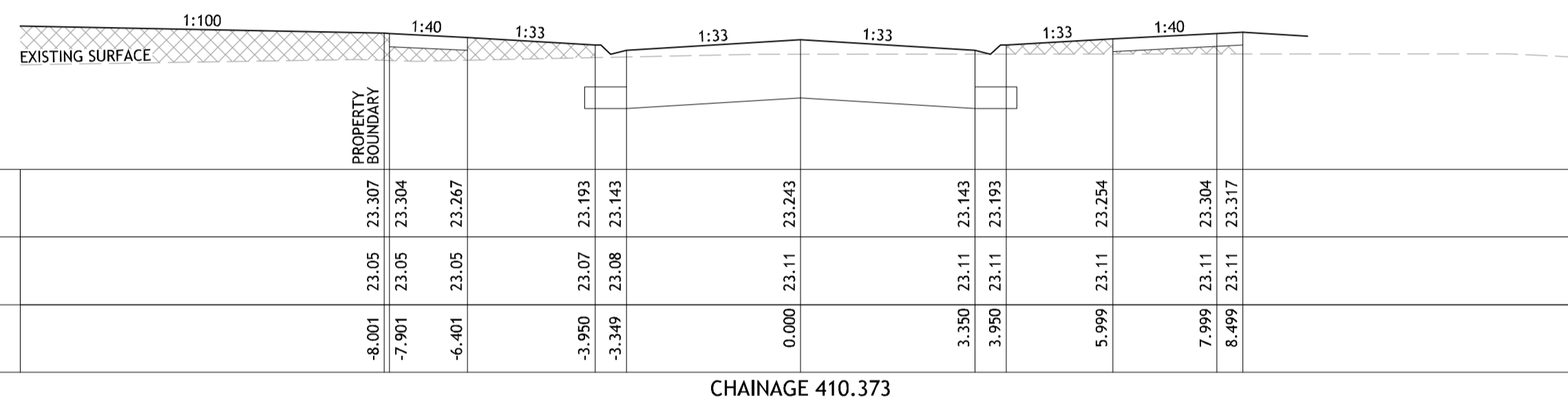
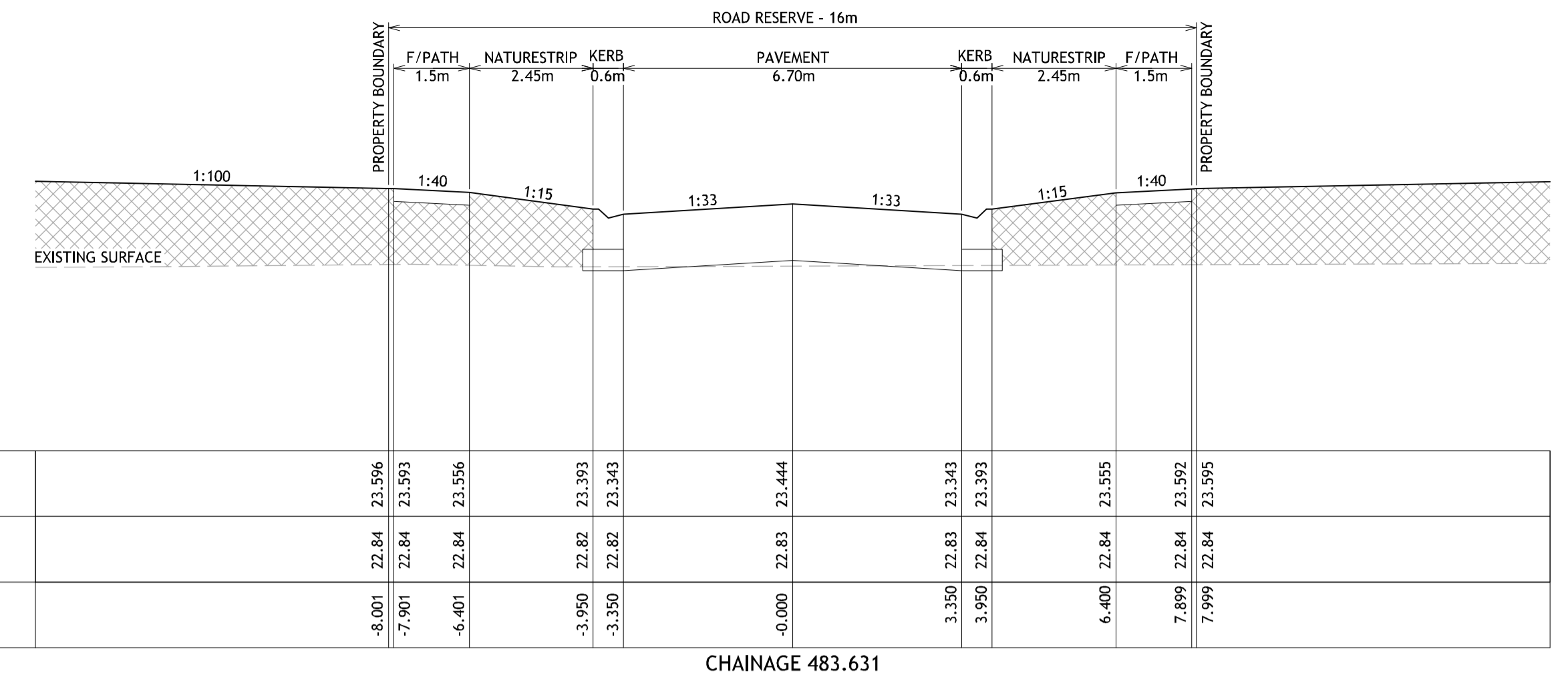
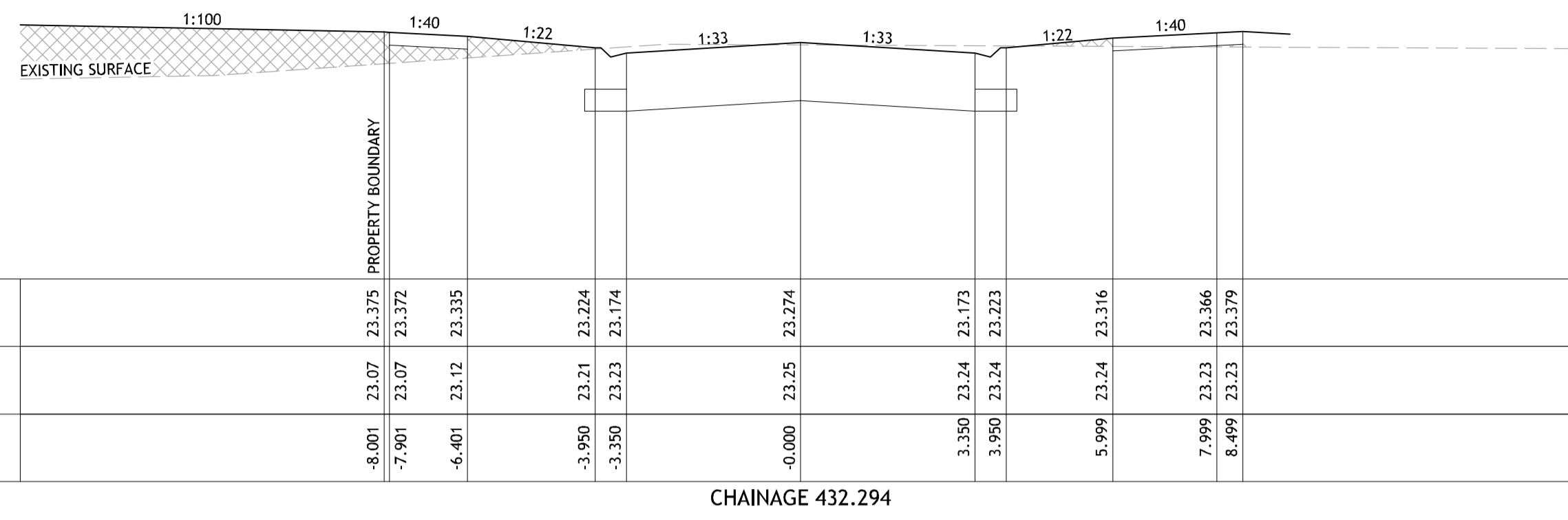


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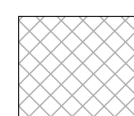
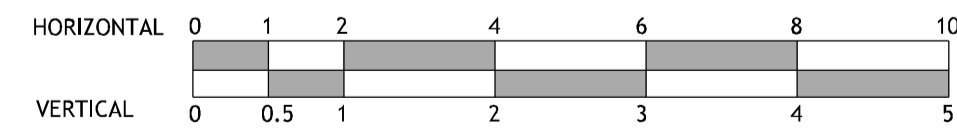
BES REFERENCE: 1129-3	REV
3080/ 11	A
SHEET 11 OF 20	



CROSS SECTIONS

CONNECTION ROAD

SCALE 1:100 (H), 1:50 (V) (A1)

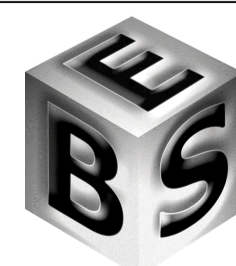


DENOTES SELECT FILL. FOR FILL DEPTHS GREATER THAN 300mm COMPACTION OF FILL TO BE UNDERTAKEN IN ACCORDANCE WITH TABLE 204.131 COMPACTION REQUIREMENTS SCALE C OF VICROADS SPECIFICATION



DENOTES CRUSHED ROCK BACKFILL COMPACTION TO NOT LESS THAN 95% OF AS 1289.5.2.1 (MODIFIED)

E			
D			
C			
B			
A	INITIAL PLAN PREPARATION		BW
INDEX	DATE	REVISION	APPD



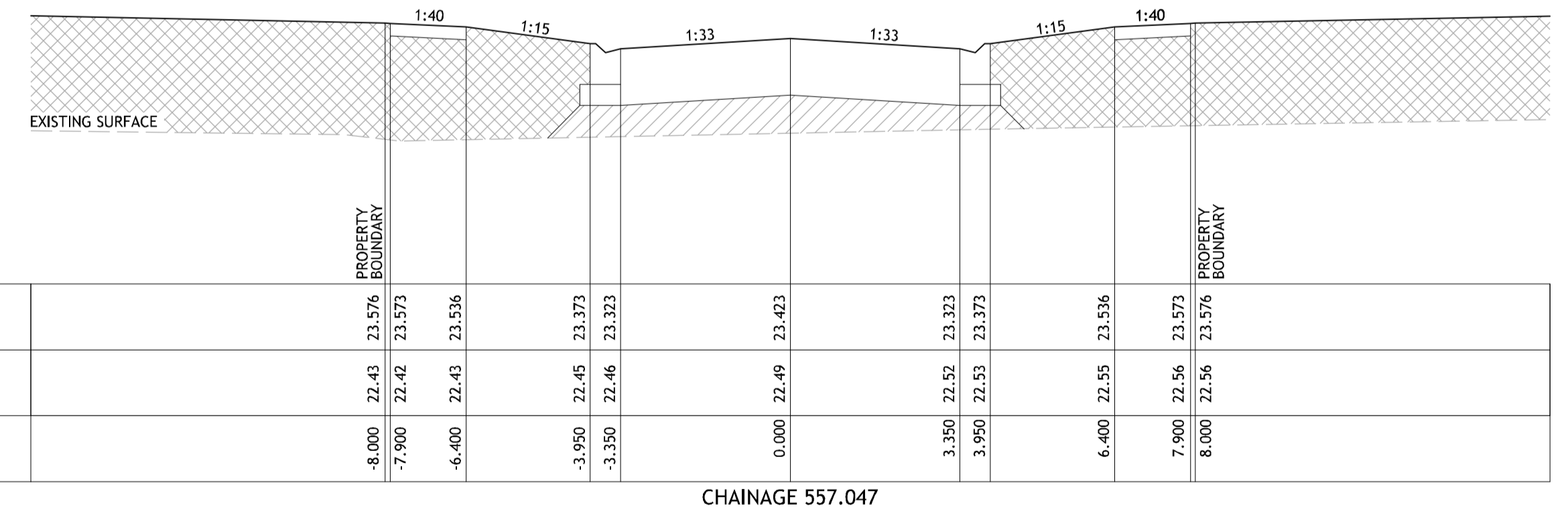
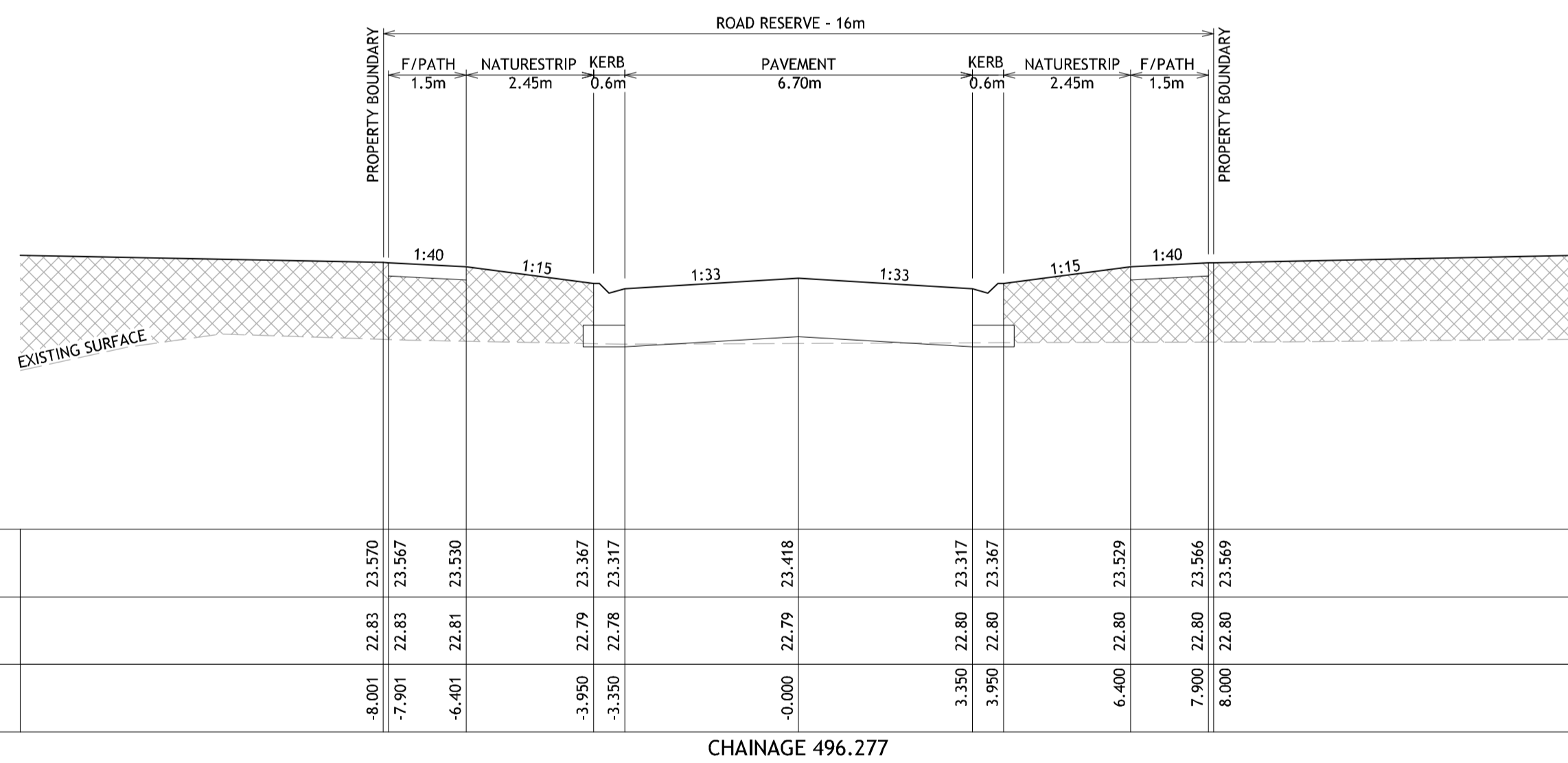
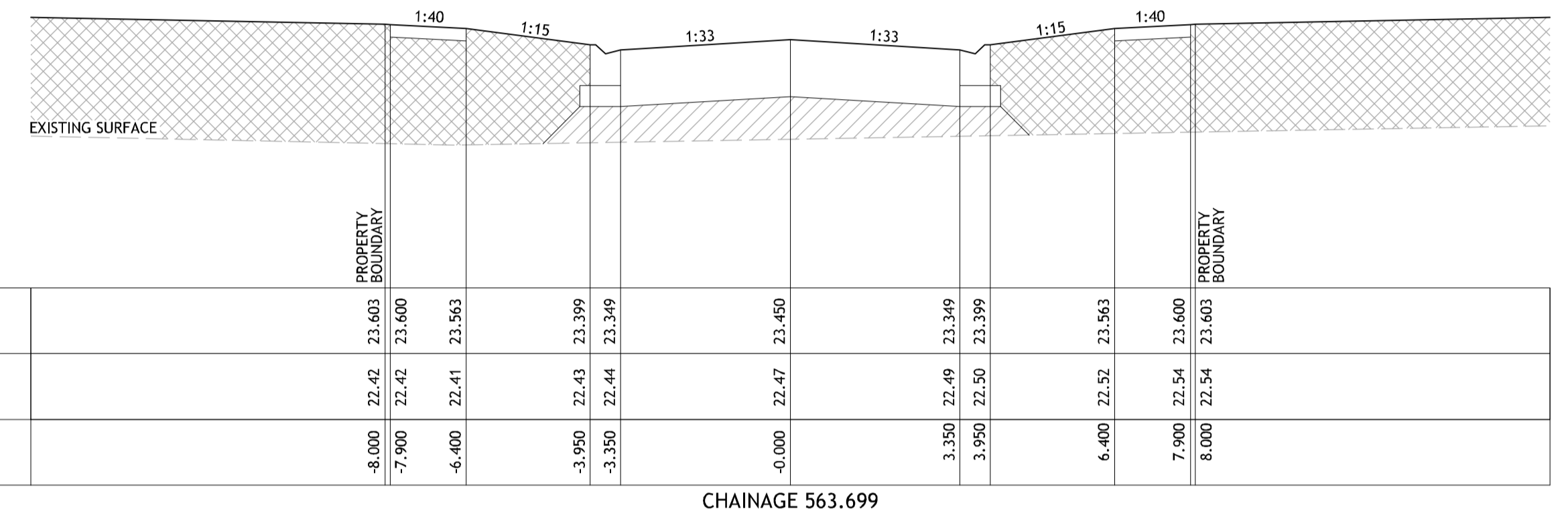
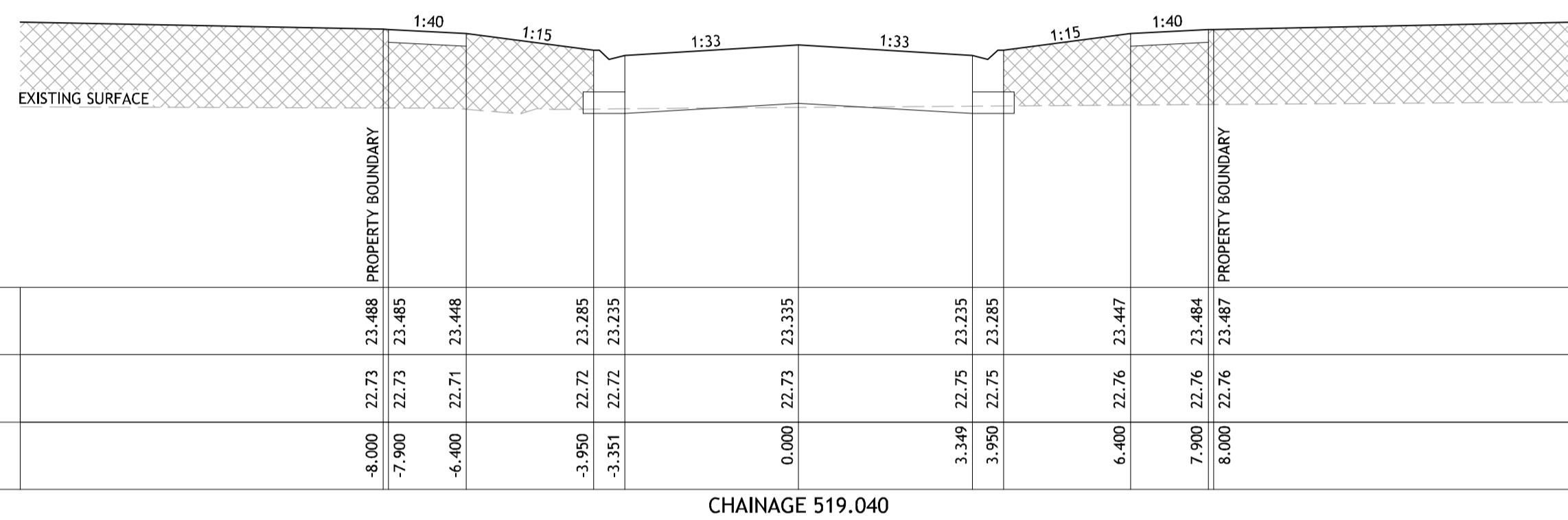
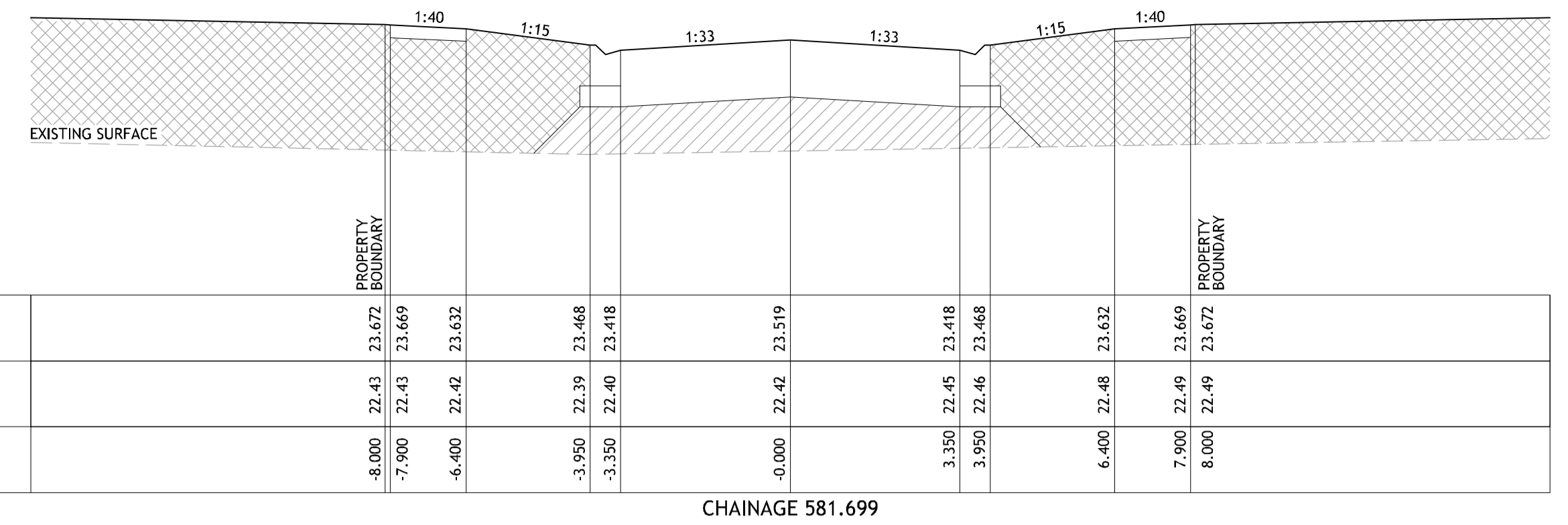
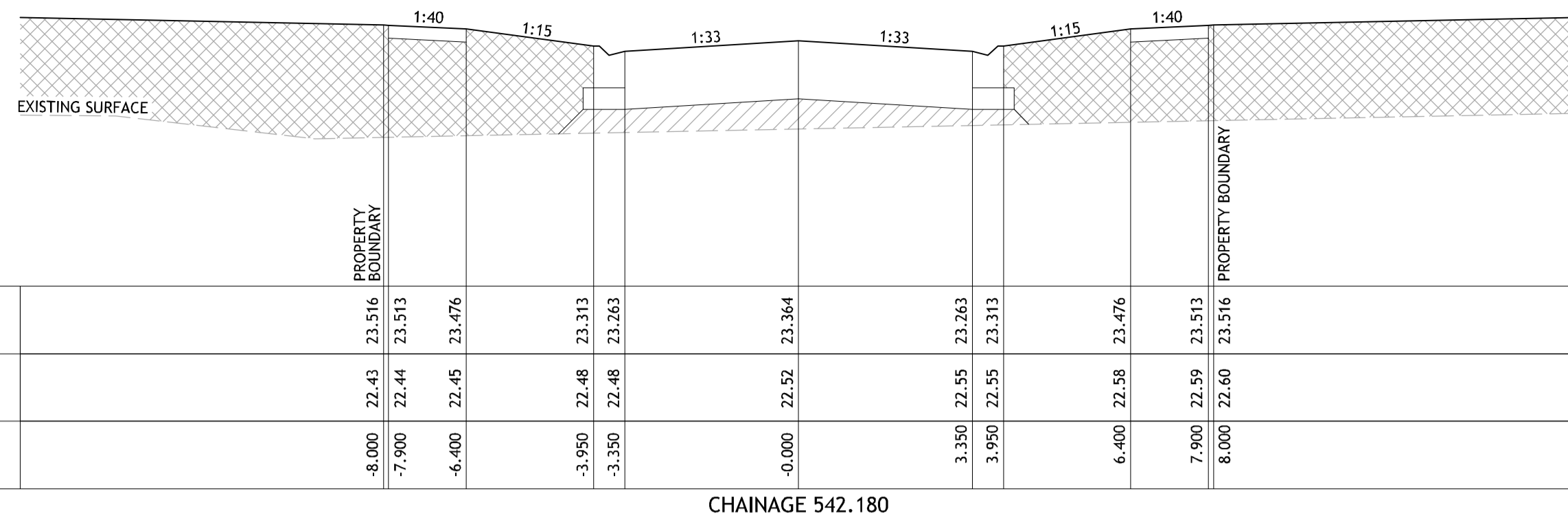
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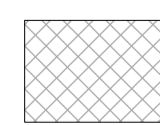
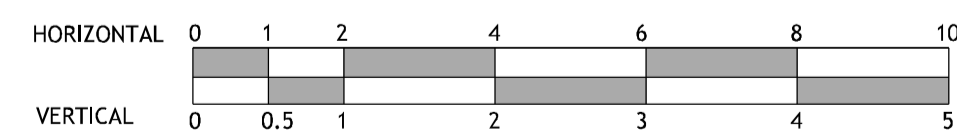
MUNICIPALITY:	BASS COAST SHIRE COUNCIL
SCHEME	'POWLETT RIDGE ESTATE', WONTHAGGI - STAGE 3 CONNECTION ROAD CROSS SECTIONS
CLIENT:	THE BOULEVARDE PTY LTD

BES REFERENCE: 1129-3	REV
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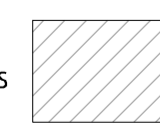


CROSS SECTIONS

CONNECTION ROAD
SCALE 1:100 (H), 1:50 (V) (A1)

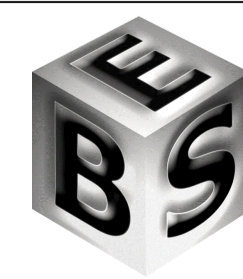


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DENOTES CRUSHED ROCK BACKFILL COMPACTED TO NOT LESS THAN 95% OF AS 1289.5.2.1 (MODIFIED)

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D			
C			
B			
A	INITIAL PLAN PREPARATION		BW
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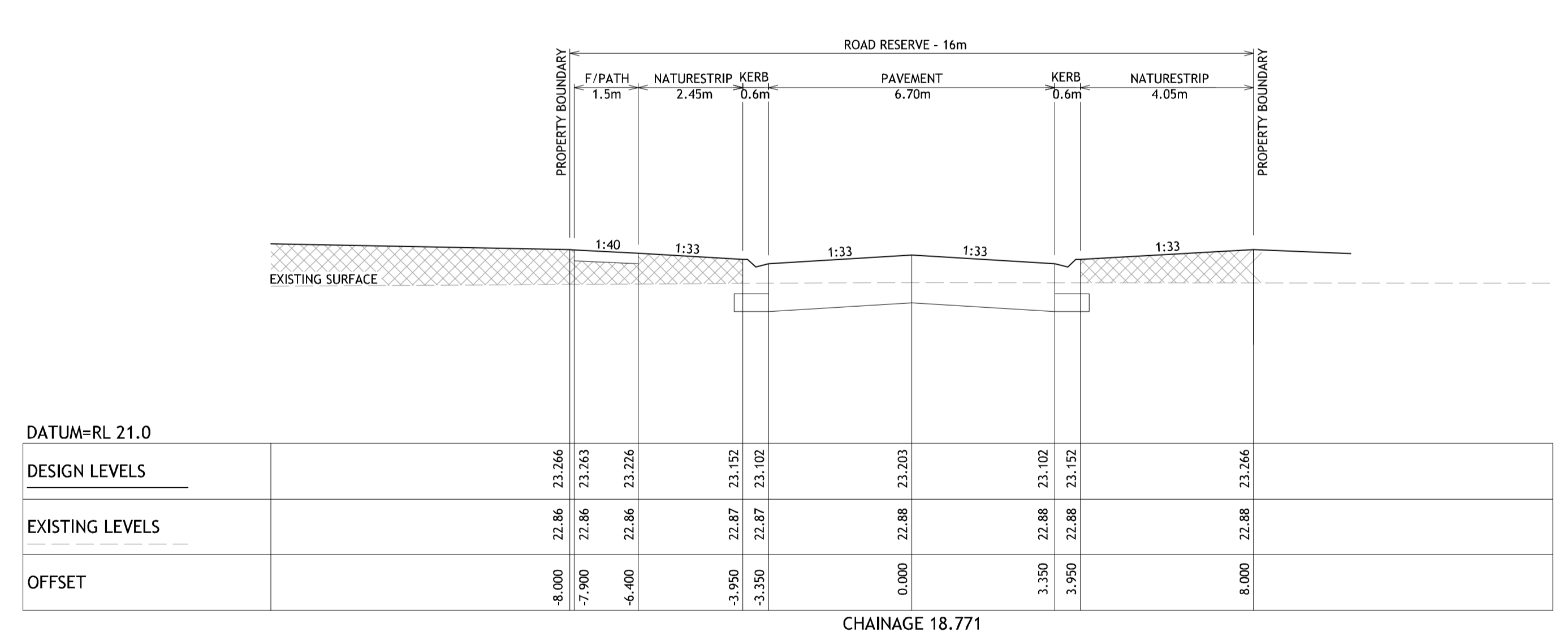
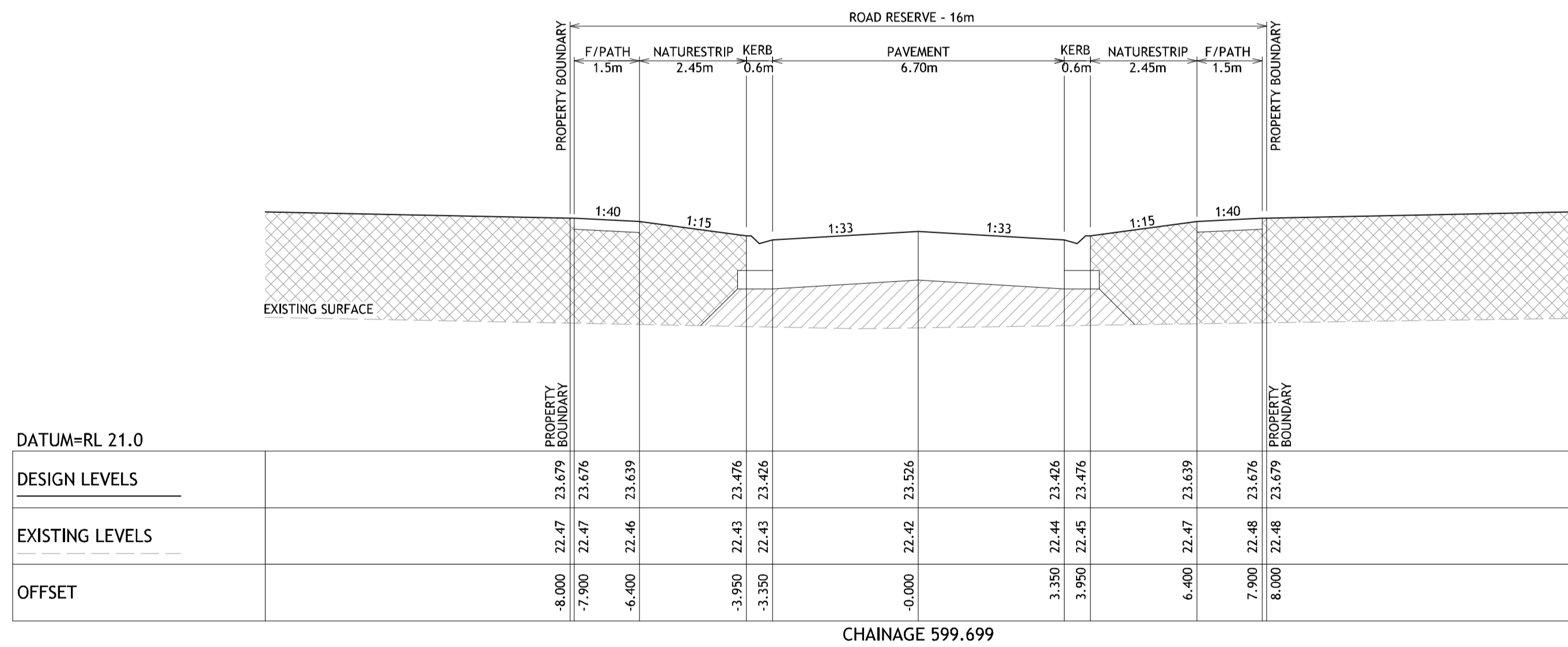
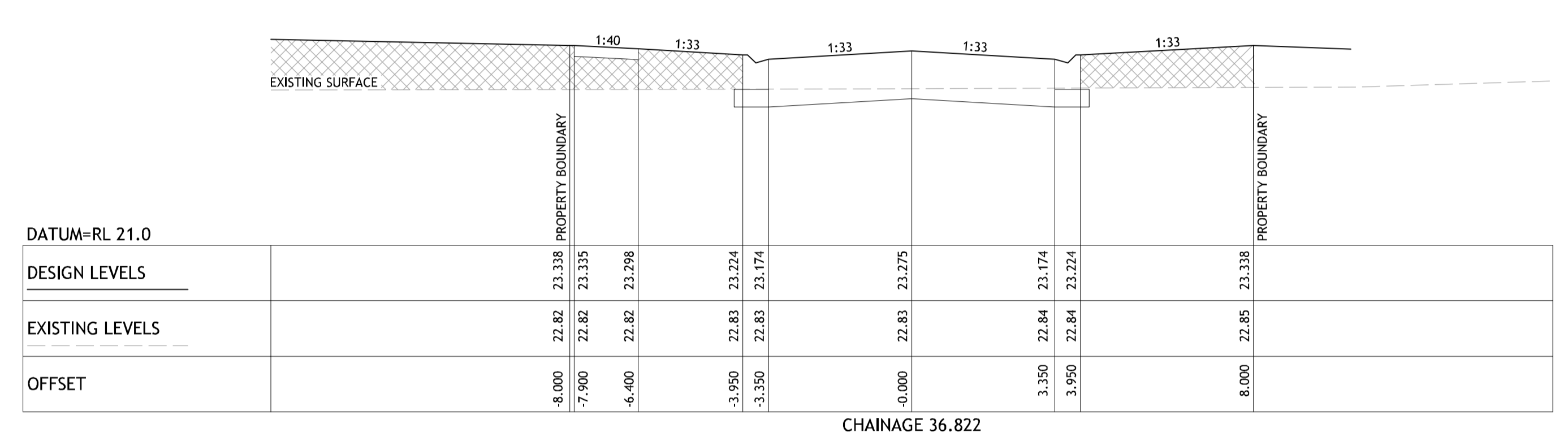
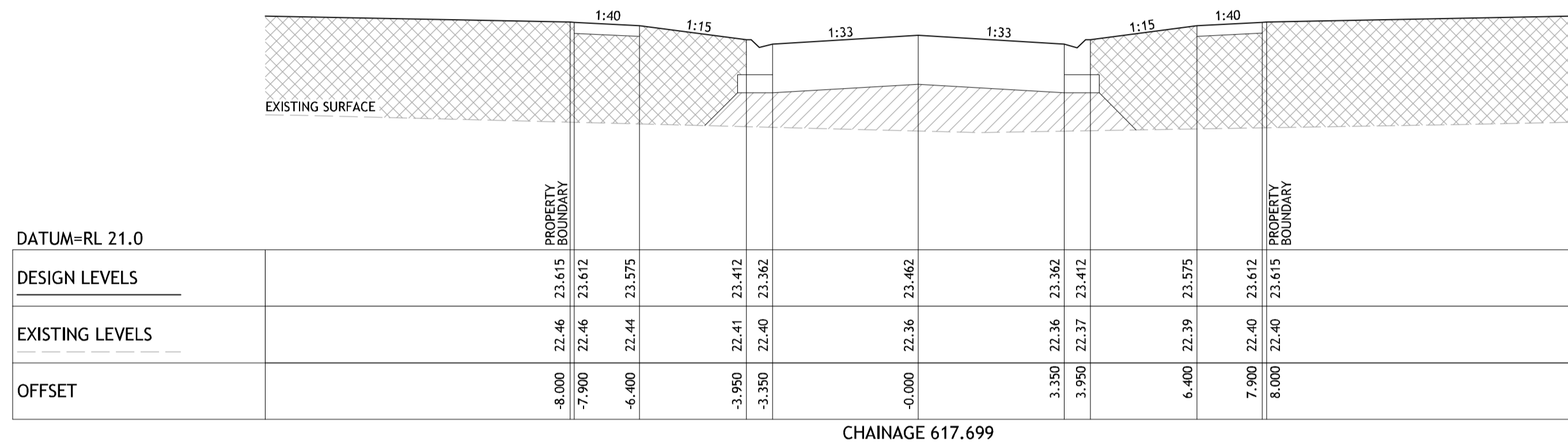
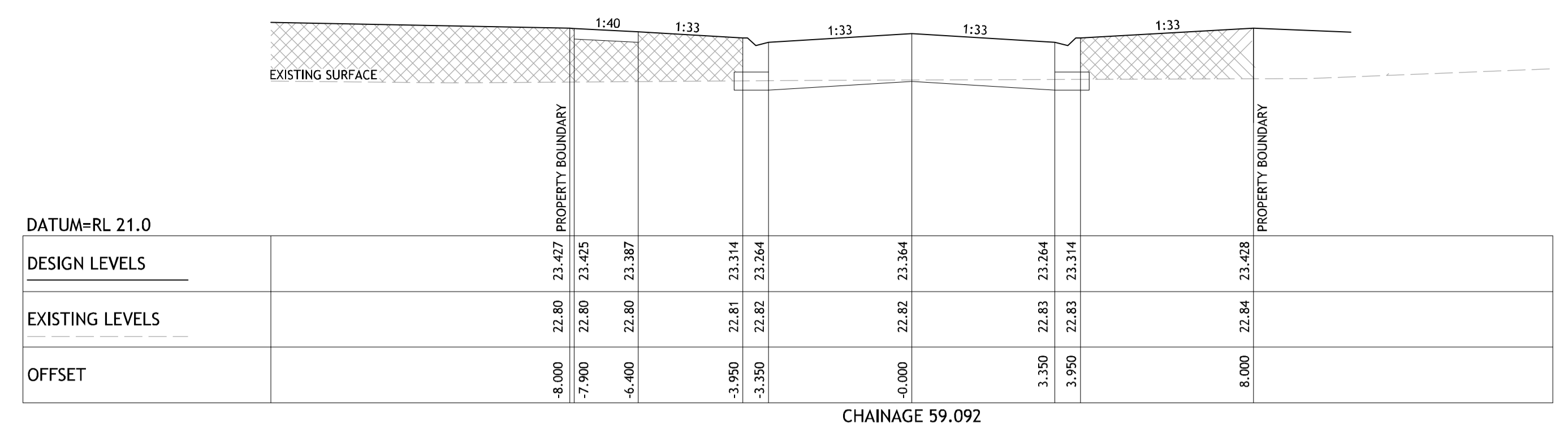
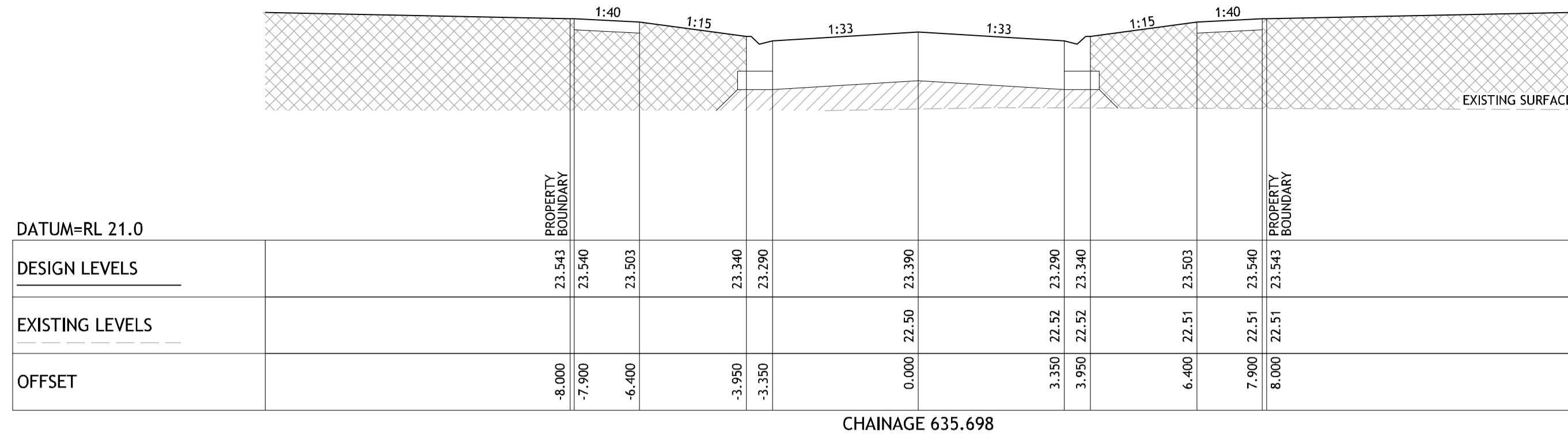
BROSAN ENGINEERING SOLUTIONS PTY LTD
48 MCBRIDE AVENUE, WONTHAGGI
(PO BOX 865 WONTHAGGI VIC 3995)
P 03 5672 5777 E info@broseng.com.au

PLAN OF SUBDIVISION:	PS838137Y
SURVEY	NOBELIUS
DESIGN	M.BROSAN
CHECKED	B.WILSON

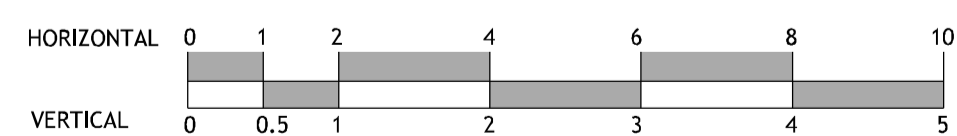
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SCHEME	'POWLETT RIDGE ESTATE', WONTHAGGI - STAGE 3 CONNECTION ROAD CROSS SECTIONS
CLIENT:	THE BOULEVARDE PTY LTD

BES REFERENCE: 1129-3	REV
3080/ 13	A
SHEET 13 OF 20	

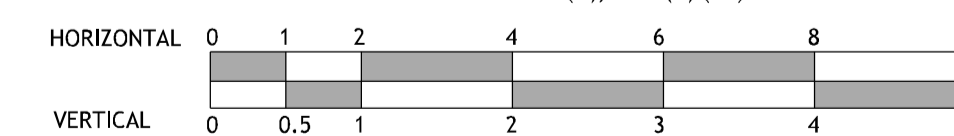


CROSS SECTIONS



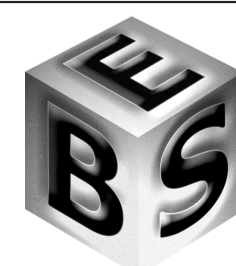
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 DENOTES CRUSHED ROCK BACKFILL COMPACTED TO NOT LESS THAN 95% OF AS 1289.5.2.1 (MODIFIED)

CROSS SECTIONS



DENOTES SELECT FILL, FOR FILL DEPTHS GREATER THAN 300mm COMPACTION OF FILL TO BE UNDERTAKEN IN ACCORDANCE WITH TABLE 204.131 COMPACTION REQUIREMENTS SCALE C OF VICROADS SPECIFICATION
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E			
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A	INITIAL PLAN PREPARATION		BW
INDEX	DATE	REVISION	APPD

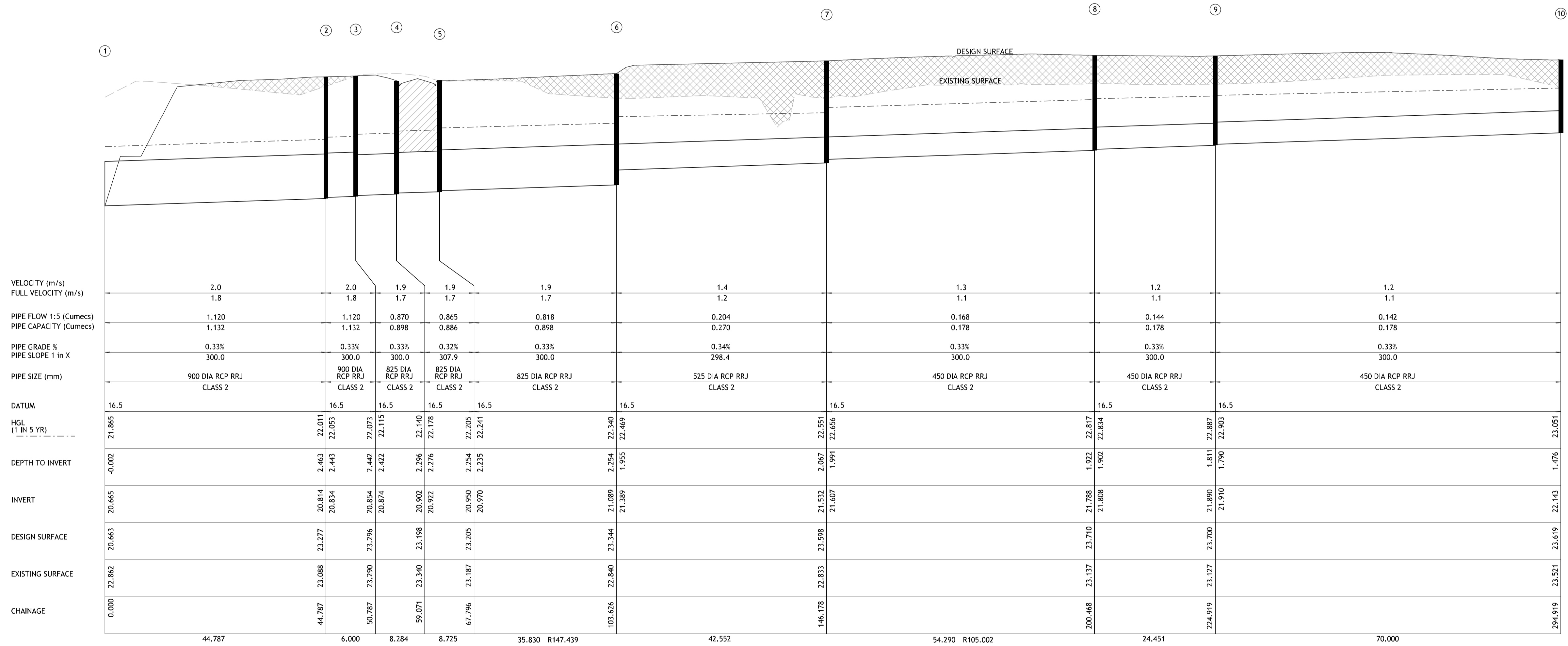


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PLAN OF SUBDIVISION:	PS838137Y
SURVEY	NOBELIUS
DESIGN	M.BROSAN
CHECKED	B.WILSON

MUNICIPALITY:	BASS COAST SHIRE COUNCIL
SCHEME	'POWLETT RIDGE ESTATE', WONTHAGGI - STAGE 3
CLIENT:	THE BOULEVARDE PTY LTD

BES REFERENCE:	1129-3
3080/ 14	REV A
SHEET 14 OF 20	



DRAINAGE LONGITUDINAL SECTIONS
 SCALE 1:500(H), 1:50(V) @ A1
 HORIZONTAL 1:500
 VERTICAL 1:50

DENOTES SELECT FILL. FOR FILL DEPTHS GREATER THAN 300mm COMPACTION OF FILL TO BE UNDERTAKEN IN ACCORDANCE WITH TABLE 204.131 COMPACTION REQUIREMENTS SCALE C OF VICROADS SPECIFICATION
 DENOTES CRUSHED ROCK BACKFILL COMPACTION TO NOT LESS THAN 95% OF AS 1289.5:2.1 (MODIFIED)

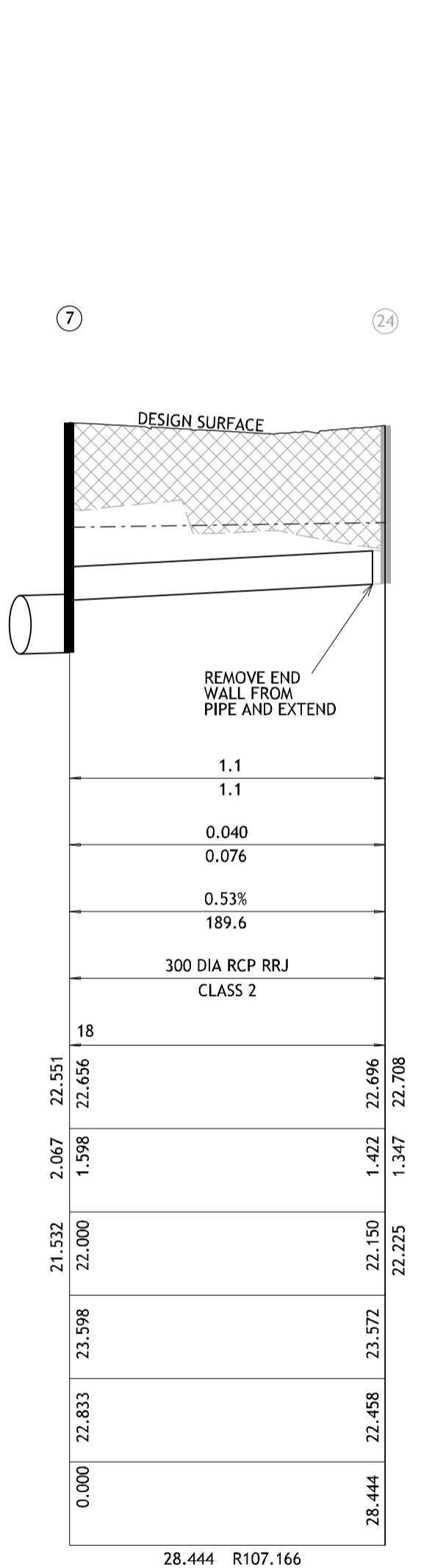
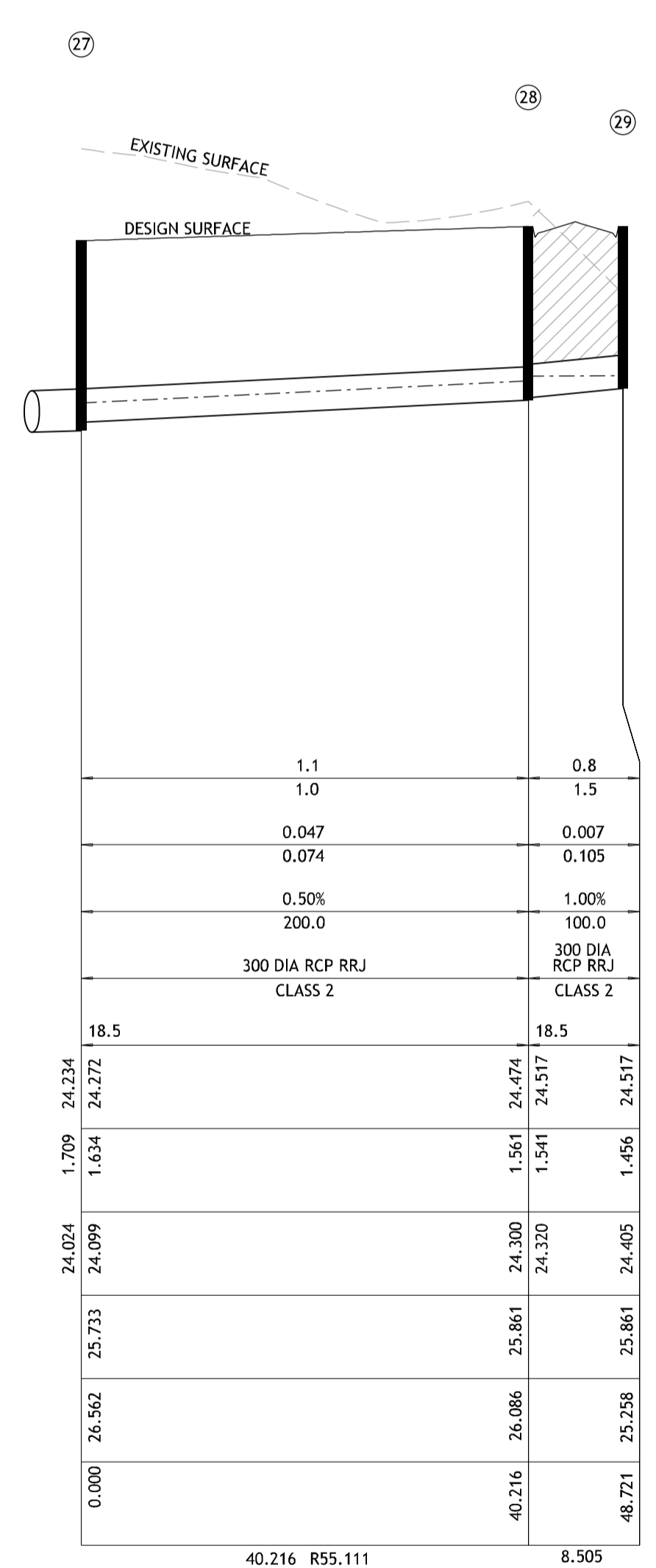
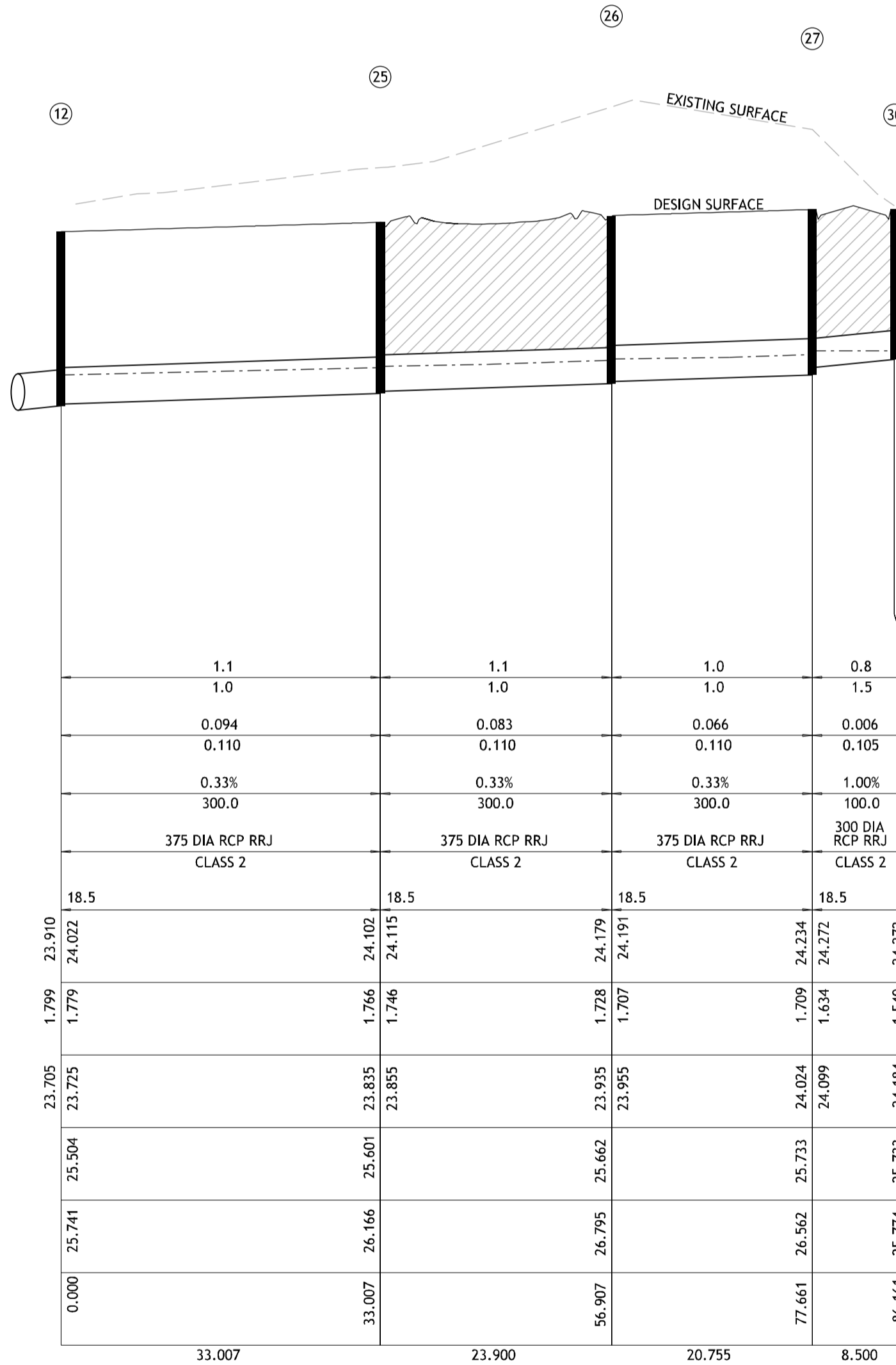
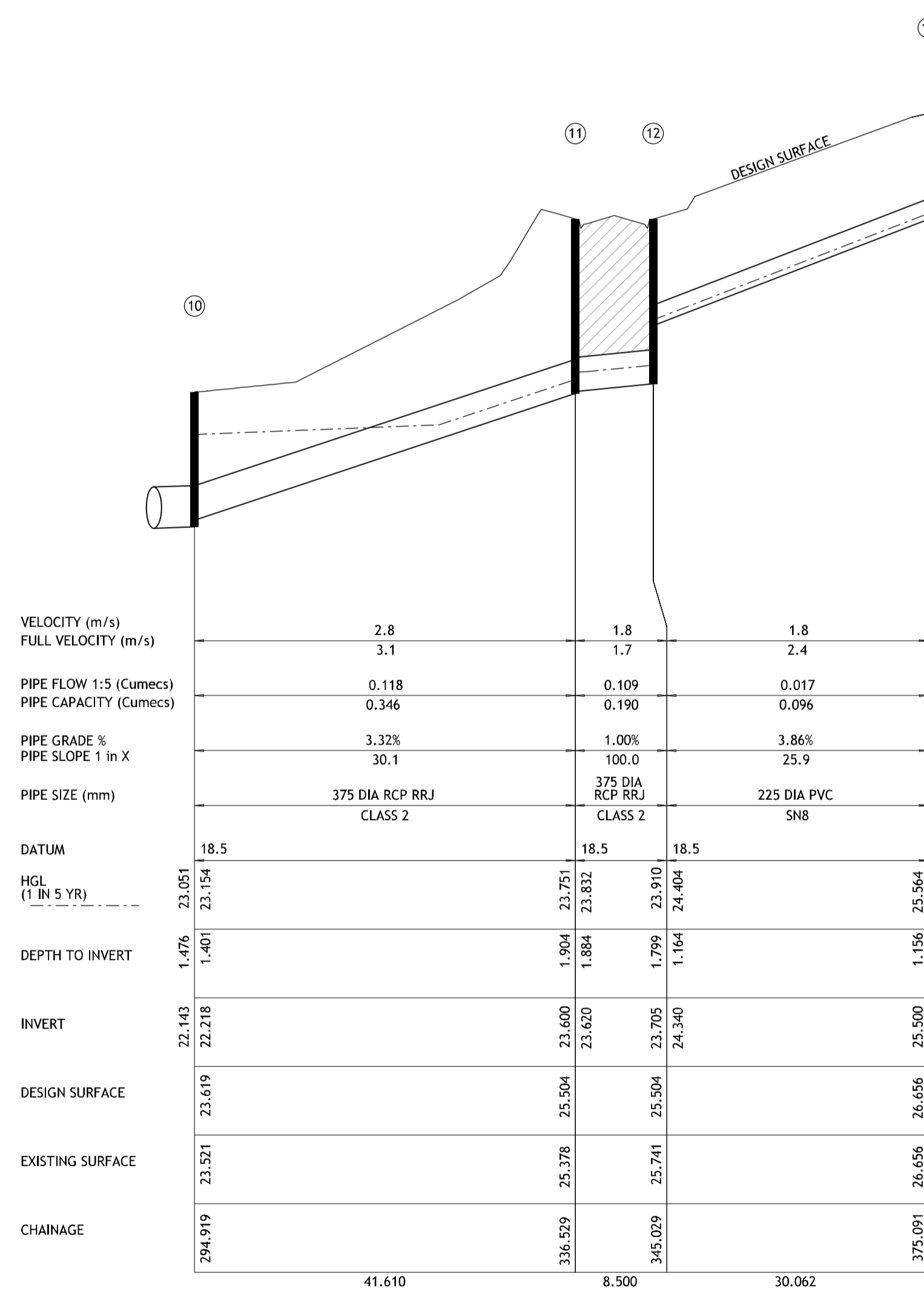
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A		INITIAL PLAN PREPARATION	BW
INDEX	DATE	REVISION	APPD

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MUNICIPALITY:	BASS COAST SHIRE COUNCIL
SCHEME	'POWLETT RIDGE ESTATE', WONTHAGGI - STAGE 3 DRAINAGE LONGITUDINAL SECTIONS
CLIENT:	THE BOULEVARDE PTY LTD

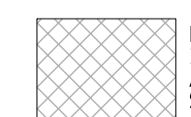

BES REFERENCE: 1129-3	REV
3080/ 15	A
SHEET 15 OF 20	



DRAINAGE LONGITUDINAL SECTIONS

SCALE 1:500(H), 1:50(V) @ A1



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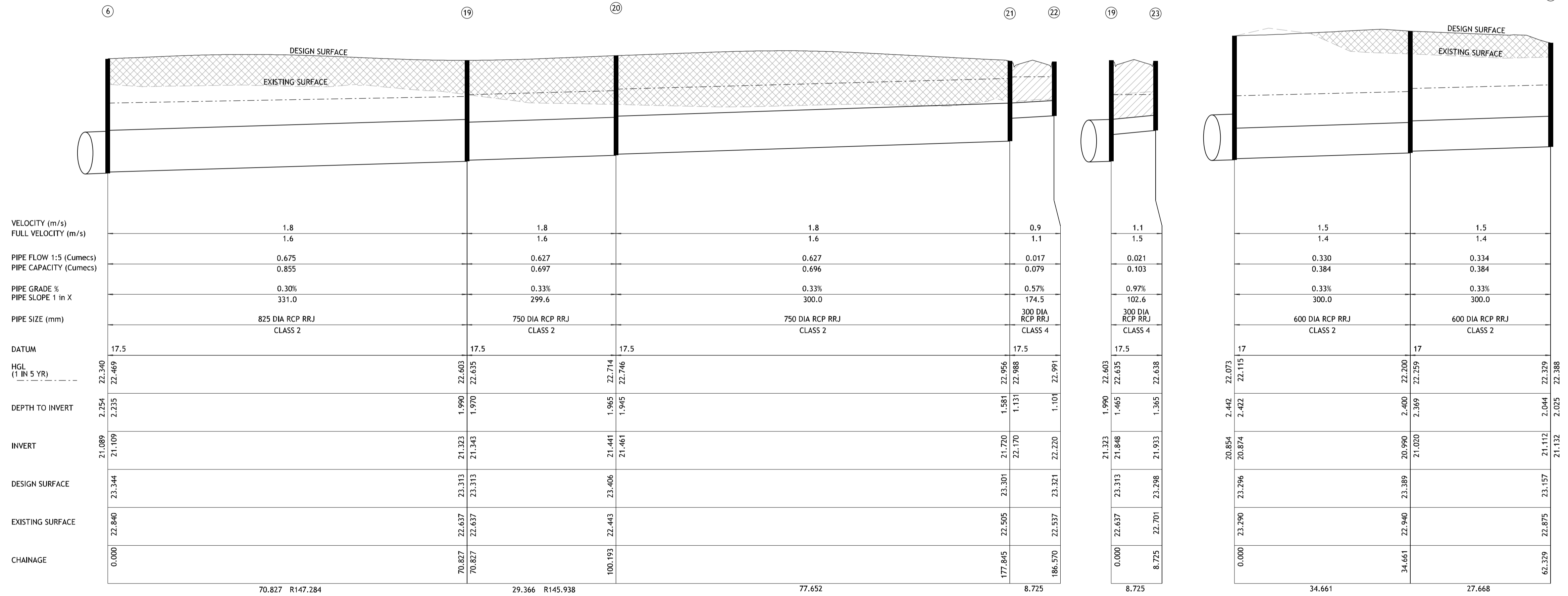
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CLIENT:	THE BOULEVARDE PTY LTD

BES REFERENCE:	1129-3
	3080/ 16
	SHEET 16 OF 20

REV
A



DRAINAGE LONGITUDINAL SECTIONS
 SCALE 1:500(H), 1:50(V) @ A1
 HORIZONTAL 1:500
 VERTICAL 1:50

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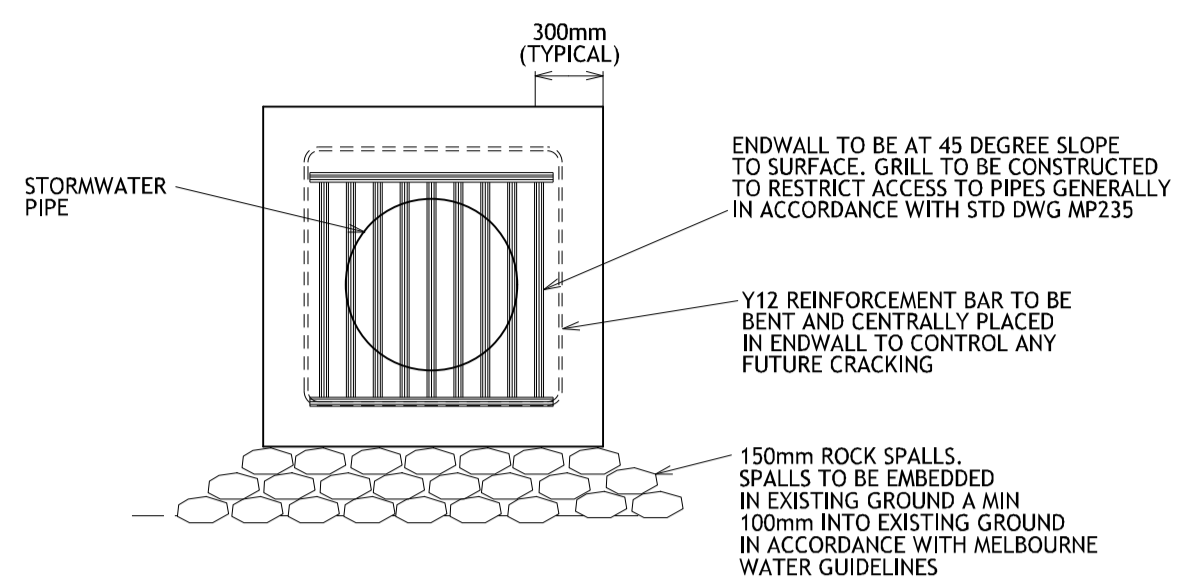
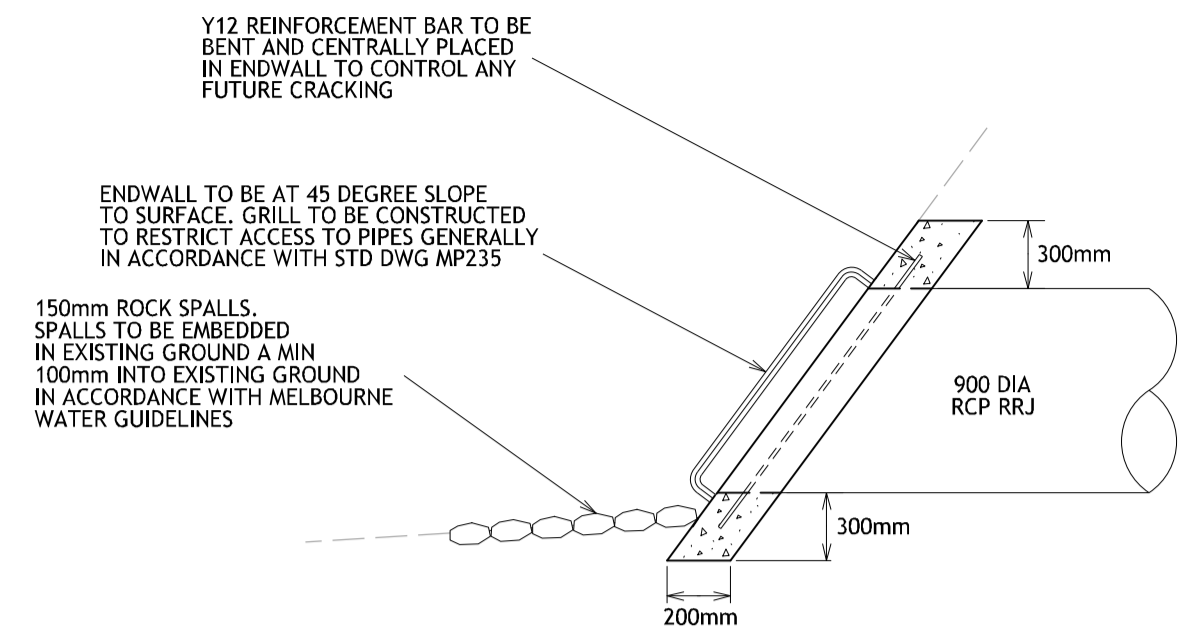
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A	INITIAL PLAN PREPARATION		BW
INDEX	DATE	REVISION	APPD

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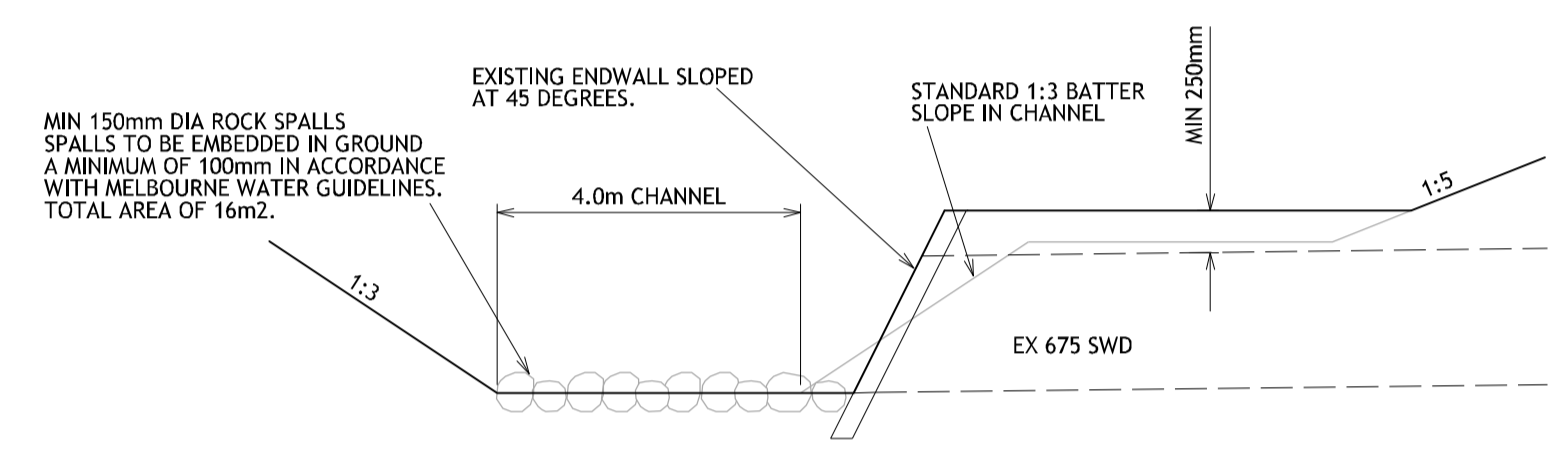
PLAN OF SUBDIVISION:	PS838137Y
SURVEY	NOBELIUS
DESIGN	M.BROSAN
CHECKED	B.WILSON

MUNICIPALITY:	BASS COAST SHIRE COUNCIL
SCHEME	'POWLETT RIDGE ESTATE', WONTHAGGI - STAGE 3 DRAINAGE LONGITUDINAL SECTIONS
CLIENT:	THE BOULEVARDE PTY LTD

BES REFERENCE: 1129-3	REV
3080/ 17	A
SHEET 17 OF 20	



SLOPED ENDWALL DETAIL (EW 1)
NOT TO SCALE

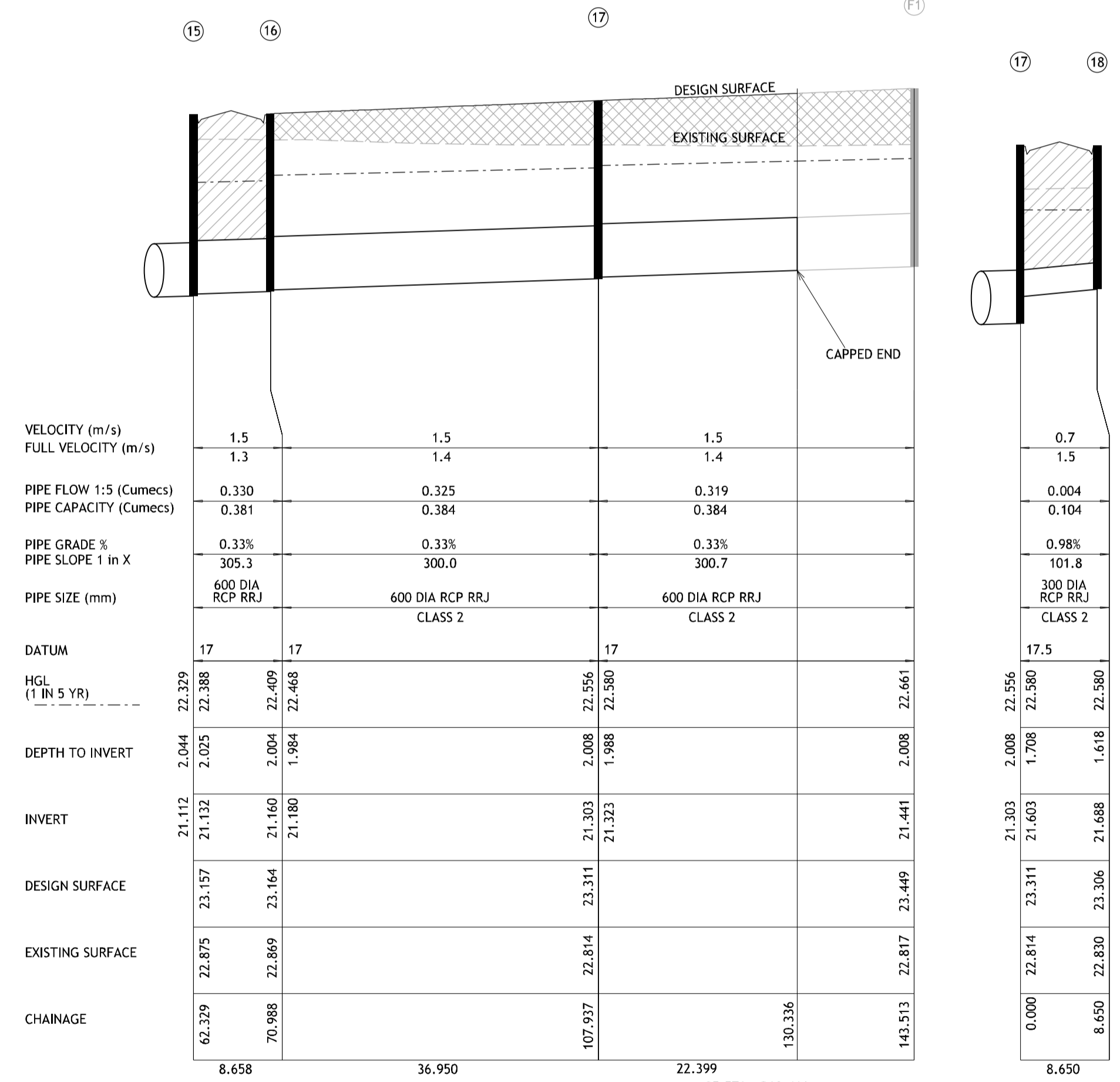


ENDWALL 1 OUTLET DETAIL
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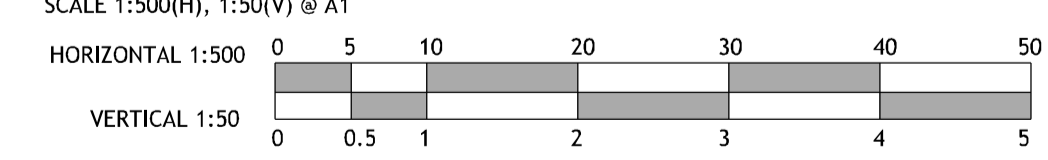
PIT SCHEDULE

NODE NAME	DIMENSIONS		PIT TYPE	DIMENSIONS		INLET		OUTLET		COVER LEVEL	DEPTH	COMMENTS
	EASTING	NORTHING		WIDTH	LENGTH	DIA	IL	DIA	IL			
1	378970.259	5726301.070	EW	-	-	900	20.665			20.665	0.000	REFER DETAIL
2	379011.458	5726283.507	GPT	600	900	900	20.834	900	20.814	23.277	2.463	ROCLA CDS UNIT 1518
3	379016.978	5726281.154	JP	900	900	825	20.874	900	20.854	23.296	2.442	AS PER SD 425. LIGHT CONCRETE PIT LID (OR EQUIVALENT)
4	379024.443	5726284.745	DSEP	600	2400	825	20.922	825	20.902	23.198	2.296	TWO SEPS AS PER SD 431 WITH 825 DIA CONNECTING PIPE. GREEN FIBREGLASS PIT LID
						H600	H2550					
5	379031.932	5726289.222	DSEP	600	2400	375	21.452	825	20.950	23.205	2.254	TWO SEPS AS PER SD 431 WITH 825 DIA CONNECTING PIPE. GREEN FIBREGLASS PIT LID
						H1050	H2550	825	20.970			
6	379054.012	5726261.116	JP	600	900	525	21.389	825	21.089	23.344	2.254	AS PER SD 420. GREEN FIBREGLASS PIT LID
						H1050	H900	825	21.109			
7	379084.173	5726291.133	JP	600	900	450	21.607	525	21.532	23.598	2.067	AS PER SD 425. LIGHT CONCRETE PIT LID (OR EQUIVALENT)
								300	22.000			
8	379130.650	5726264.259	JP	600	900	450	21.808	450	21.788	23.710	1.922	AS PER SD 425. LIGHT CONCRETE PIT LID (OR EQUIVALENT)
9	379154.673	5726259.704	JP	600	900	450	21.910	450	21.890	23.700	1.811	AS PER SD 425. LIGHT CONCRETE PIT LID (OR EQUIVALENT)
10	379224.313	5726252.610	JP	600	900	375	22.218	450	22.143	23.619	1.476	AS PER SD 425. LIGHT CONCRETE PIT LID (OR EQUIVALENT)
11	379228.536	5726294.005	SEP	600	900	375	23.620	375	23.600	25.504	1.904	AS PER SD 431. GREEN FIBREGLASS PIT LID
12	379229.399	5726302.461	SEP	600	900	225	24.340	375	23.705	25.504	1.799	AS PER SD 431. GREEN FIBREGLASS PIT LID
13	379231.498	5726332.450	JP	600	900			225	25.500	26.656	1.156	AS PER SD 425. LIGHT CONCRETE PIT LID (OR EQUIVALENT)
14	379031.706	5726249.778	JP	900	900	600	21.020	600	20.990	23.389	2.400	AS PER SD 425. LIGHT CONCRETE PIT LID (OR EQUIVALENT)
15	379052.118	5726231.099	DSEP	600	2400	600	21.132	600	21.112	23.157	2.044	TWO SEPS AS PER SD 431 WITH 600 DIA CONNECTING PIPE. GREEN FIBREGLASS PIT LID
16	379060.660	5726229.690	DSEP	900	2400	600	21.180	600	21.160	23.164	2.004	TWO SEPS AS PER SD 431 WITH 600 DIA CONNECTING PIPE. GREEN FIBREGLASS PIT LID
17	379056.879	5726192.935	SEP	900	900	600	21.323	600	21.303	23.311	2.008	AS PER SD 440. GREEN FIBREGLASS PIT LID
18	379048.273	5726193.809	SEP	600	900			300	21.688	23.306	1.618	AS PER SD 431. GREEN FIBREGLASS PIT LID
19	379114.096	5726224.917	DSEP	600	2400	750	21.343	825	21.323	23.313	1.990	TWO SEPS AS PER SD 431 WITH 825 DIA CONNECTING PIPE. GREEN FIBREGLASS PIT LID
						H1050	H2400	300	21.848			
20	379142.849	5726219.199	JP	600	900	750	21.461	750	21.441	23.406	1.965	AS PER SD 425. GREEN FIBREGLASS PIT LID
21	379220.086	5726211.180	SEP	600	900	300	22.170	750	21.720	23.301	1.581	AS PER SD 440. GREEN FIBREGLASS PIT LID
						H1050	H900					
22	379219.201	5726202.500	SEP	600	900			300	22.220	23.321	1.101	AS PER SD 431. GREEN FIBREGLASS PIT LID
23	379111.465	5726216.598	DSEP	600	2400			300	21.933	23.298	1.365	TWO SEPS AS PER SD 431 WITH 300 DIA CONNECTING PIPE. GREEN FIBREGLASS PIT LID
24	379066.951	5726313.665	EX JP	600	900	225	22.225	300	22.150	23.572	1.422	REMOVE ENDWALL FROM PIPE, AND CONNECT AS PER LONG SECTION DETAIL
25	379196.562	5726305.806	SEP	600	900	375	23.855	375	23.835	25.601	1.766	AS PER SD 431. GREEN FIBREGLASS PIT LID
26	379172.785	5726308.228	SEP	600	900	375	23.955	375	23.935	25.662	1.728	AS PER SD 431. GREEN FIBREGLASS PIT LID
27	379152.137	5726310.332	SEP	600	900	300	24.099	375	24.024	25.733	1.709	AS PER SD 431. GREEN FIBREGLASS PIT LID
28	379117.006	5726328.012	SEP	600	900	300	24.320	300	24.300	25.861	1.561	AS PER SD 431. GREEN FIBREGLASS PIT LID
29	379110.724	5726322.278	SEP	600	900			300	24.405	25.861	1.456	AS PER SD 431. GREEN FIBREGLASS PIT LID
								300	24.184	25.733	1.549	AS PER SD 431. GREEN FIBREGLASS PIT LID
30	379151.276	5726301.876	SEP	600	900			300	24.184	25.733	1.549	AS PER SD 431. GREEN FIBREGLASS PIT LID
F-1	379045.756	5726159.563	FUT JP	900	900	600	21.461	600	21.441	23.449	2.008	AS PER SD 425. LIGHT CONCRETE PIT LID (OR EQUIVALENT)

NOTE: -PIT COVER LEVELS ARE APPROXIMATE ONLY. COVERS SHALL BE SET TO SUIT FINISHED SURFACE LEVELS
- PIT DIMENSIONS ARE INTERNAL



DRAINAGE LONGITUDINAL SECTIONS



DENOTES SELECT FILL. FOR FILL DEPTHS GREATER THAN 300mm COMPACTION OF FILL TO BE UNDERTAKEN IN ACCORDANCE WITH TABLE 204.131 COMPACTION REQUIREMENTS SCALE C OF VICROADS SPECIFICATION
DENOTES CRUSHED ROCK BACKFILL COMPACTION TO NOT LESS THAN 95% OF AS 1289.5.2.1 (MODIFIED)

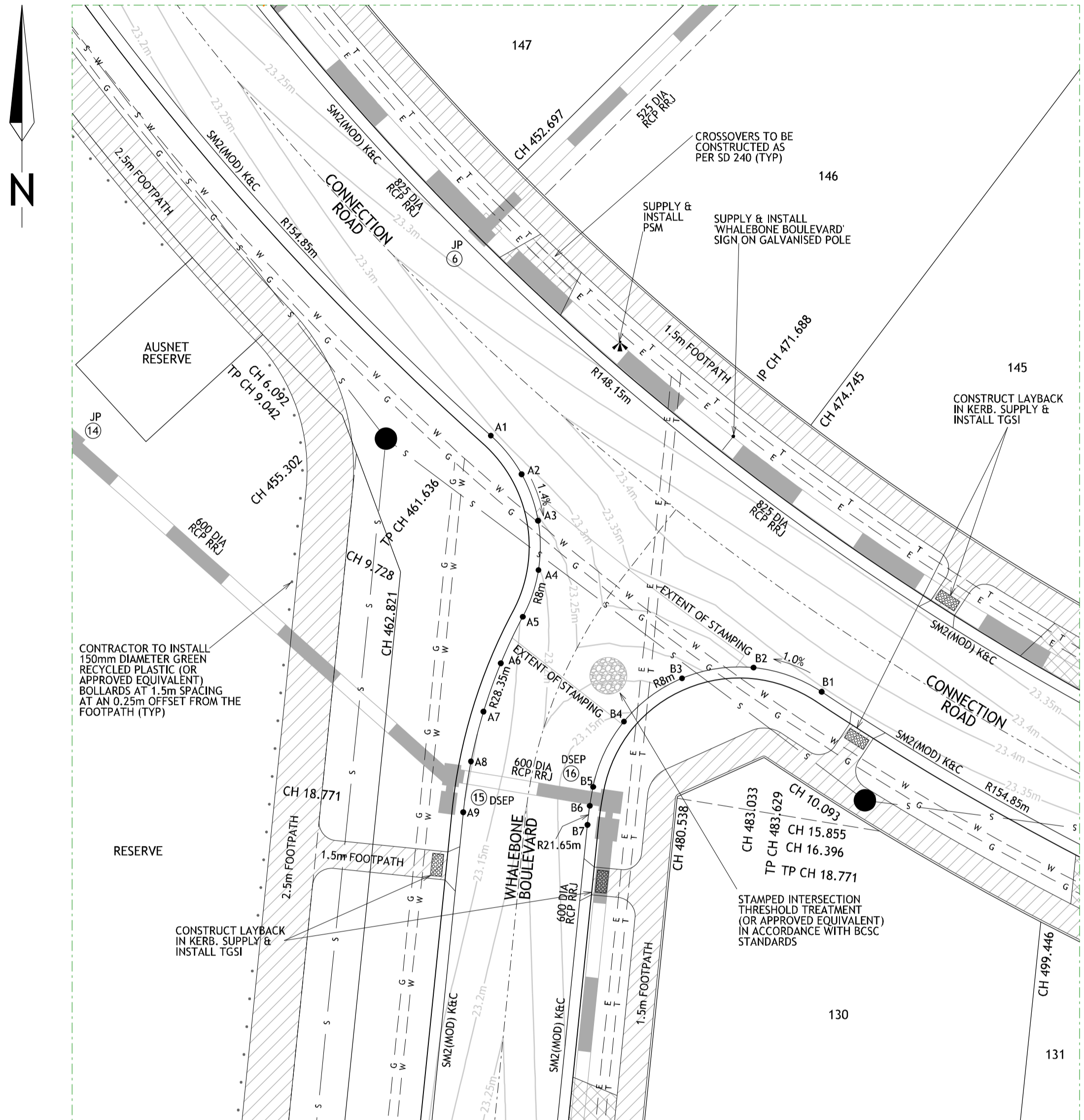
E			
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A		INITIAL PLAN PREPARATION	BW
INDEX	DATE	REVISION	APPD

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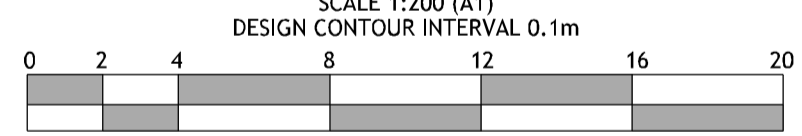
PLAN OF SUBDIVISION: P5838137Y	
SURVEY	NOBELIUS
DESIGN	M.BROSAN
CHECKED	B.WILSON

MUNICIPALITY: BASS COAST SHIRE COUNCIL
SCHEME: 'POWLETT RIDGE ESTATE', WONTHAGGI - STAGE 3 DRAINAGE LONGITUDINAL SECTIONS & PIT SCHEDULE
CLIENT: THE BOULEVARDE PTY LTD

BES REFERENCE: 1129-3	REV
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SHEET 18 OF 20	

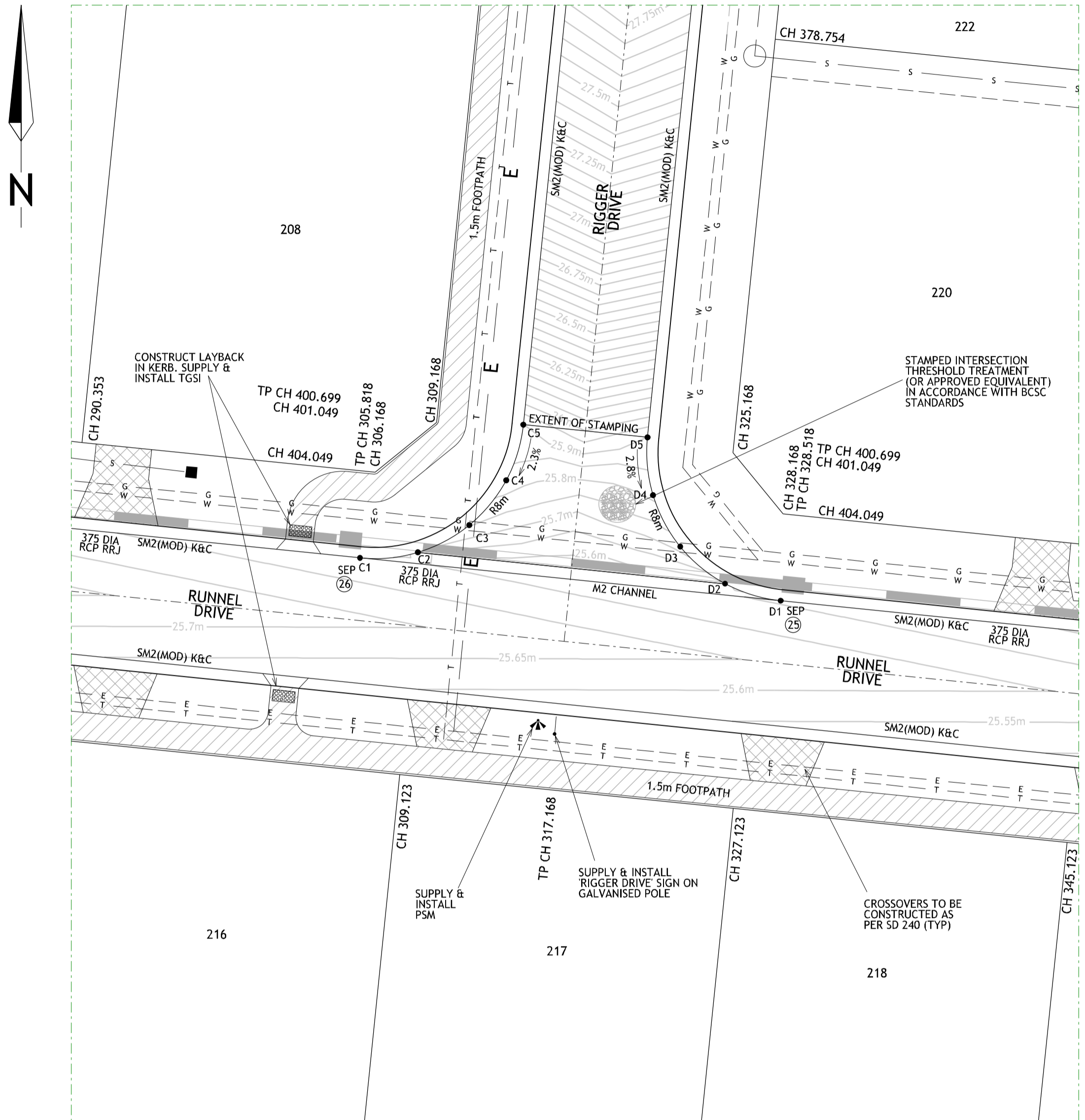


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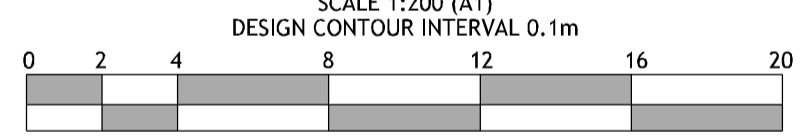


CO-ORDINATE SETOUT DETAIL
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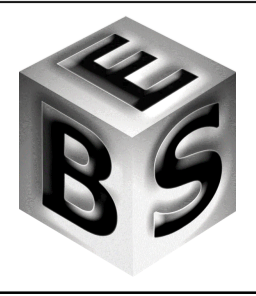
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A1	379054.320	5726250.062	23.291
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A4	379056.878	5726242.849	23.197
A5	379056.034	5726240.340	23.155
A6	379054.856	5726237.847	23.124
A7	379053.925	5726235.252	23.105
A8	379053.250	5726232.579	23.098
A9	379052.839	5726229.853	23.105
B1	379072.081	5726236.314	23.343
B2	379068.422	5726237.613	23.305
B3	379064.583	5726237.036	23.222
B4	379061.467	5726234.720	23.137
B5	379059.809	5726231.209	23.098
B6	379059.633	5726230.196	23.098
B7	379059.504	5726229.176	23.102
C1	379173.291	5726307.272	25.611
C2	379176.398	5726307.568	25.683
C3	379179.156	5726309.030	25.755
C4	379181.144	5726311.436	25.828
C5	379182.060	5726314.420	25.900
D1	379195.874	5726304.972	25.544
D2	379192.890	5726305.888	25.633
D3	379190.484	5726307.876	25.722
D4	379189.021	5726310.634	25.811
D5	379188.726	5726313.741	25.900



INTERSECTION DETAIL



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A		INITIAL PLAN PREPARATION	BW
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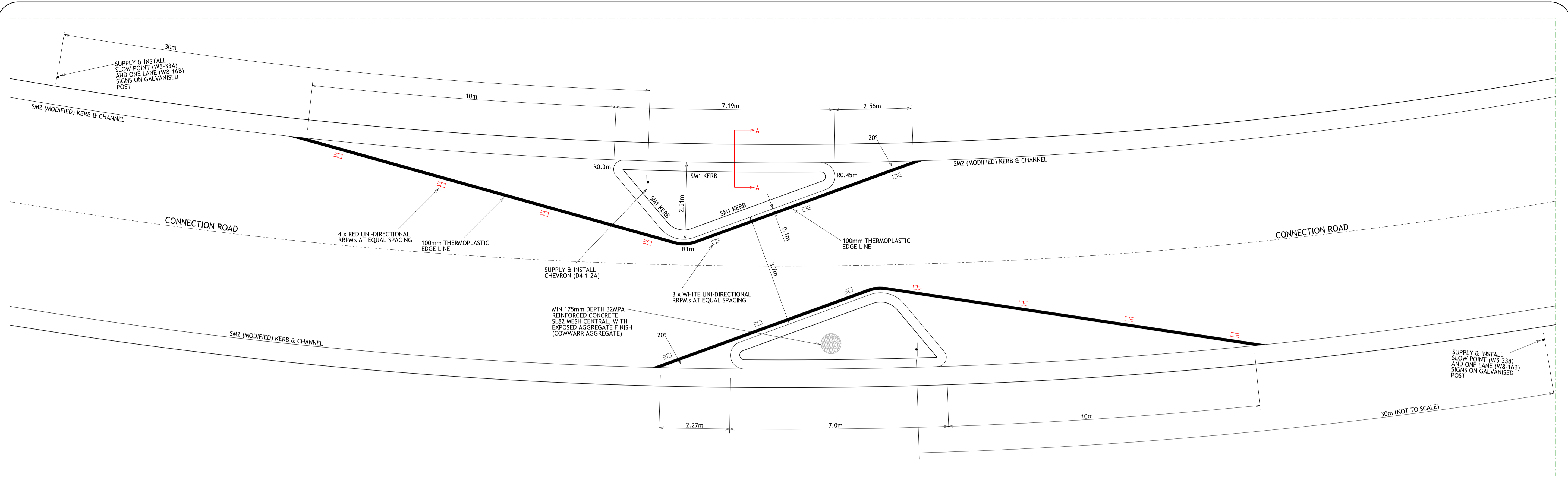


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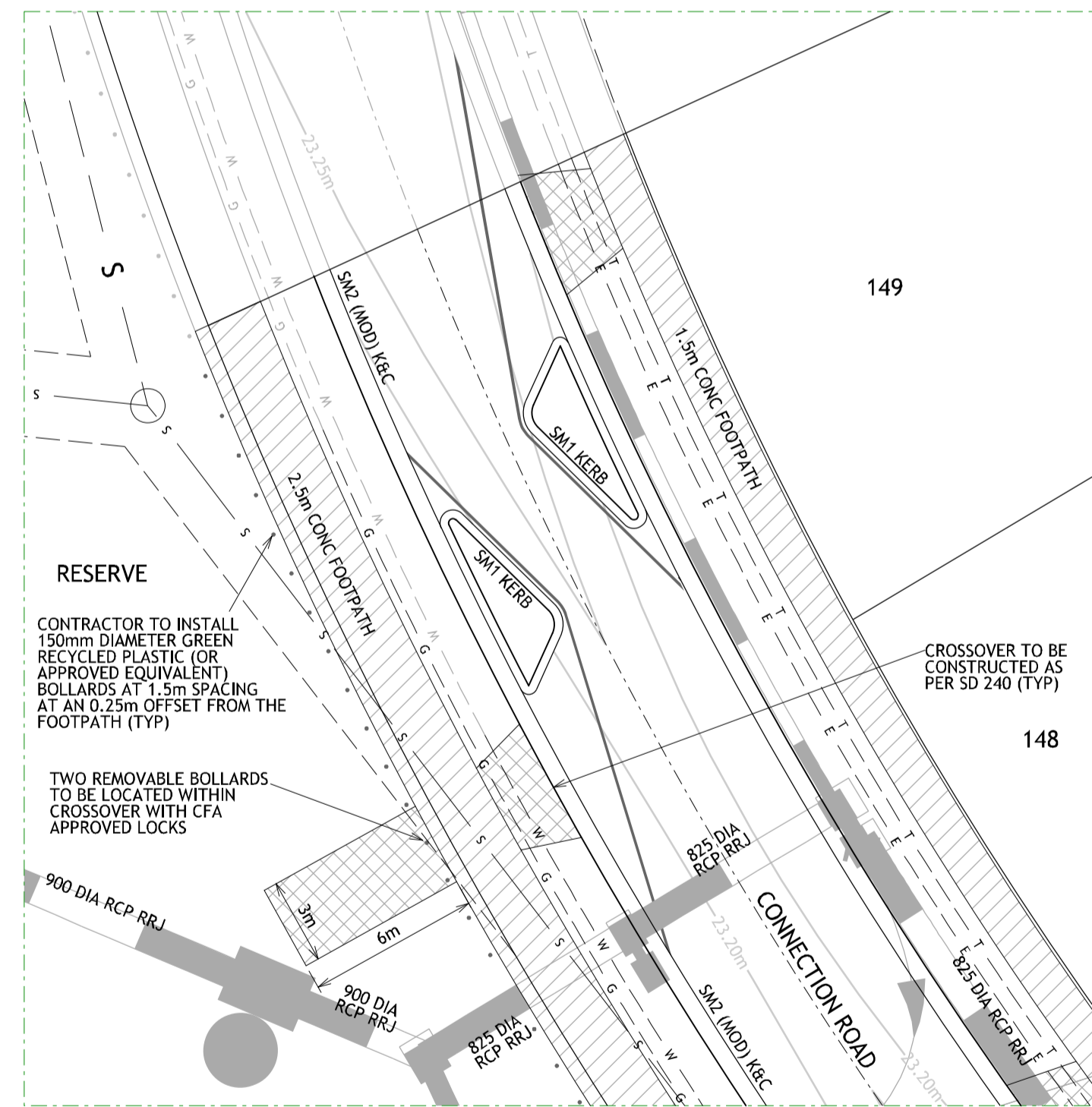
PLAN OF SUBDIVISION:	PS838137Y
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CHECKED	B.WILSON

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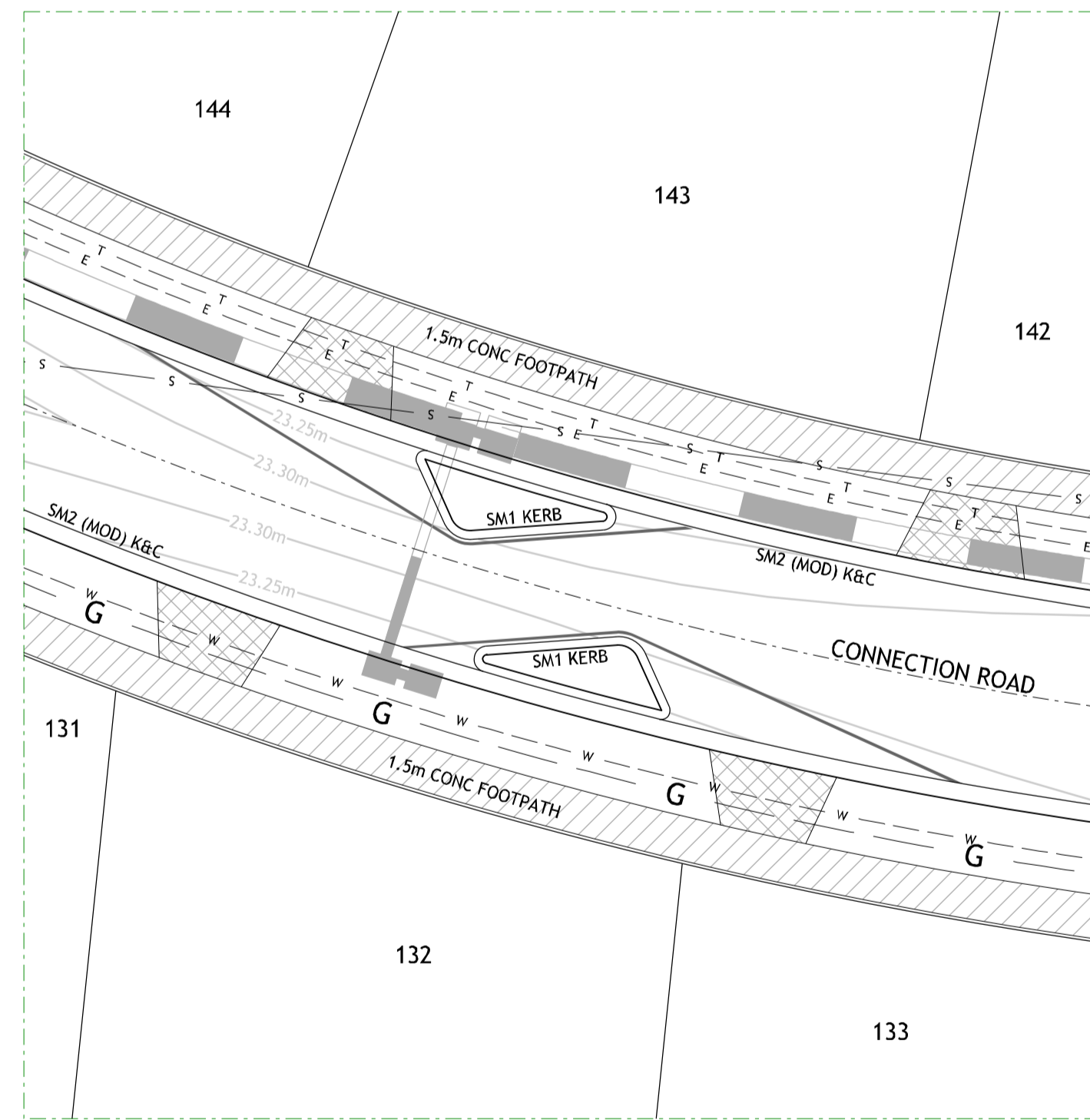
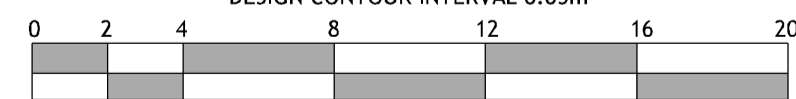


CHICANE DETAIL
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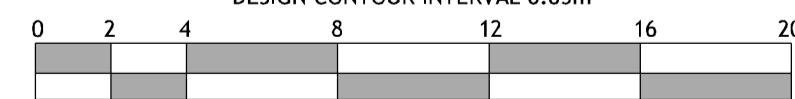
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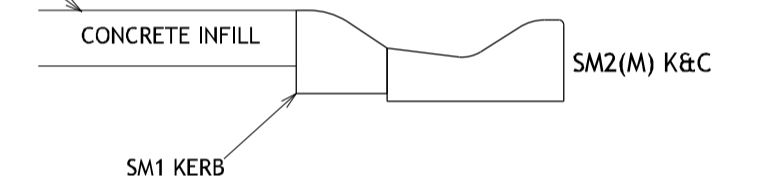


CHICANE 2 SETOUT

SCALE 1:200 (A1)
DESIGN CONTOUR INTERVAL 0.05m

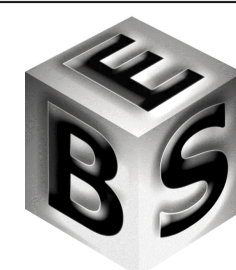


MIN 175mm DEPTH 32MPA REINFORCED CONCRETE SL82 MESH CENTRAL, WITH EXPOSED AGGREGATE FINISH (COWWARR AGGREGATE)



SECTION A-A
NOT TO SCALE

E			
D			
C			
B			
A		INITIAL PLAN PREPARATION	BW
INDEX	DATE	REVISION	APPD



BROSNAN ENGINEERING SOLUTIONS PTY LTD
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PLAN OF SUBDIVISION:	PS838137Y
SURVEY	NOBELIUS
DESIGN	M.BROSNAN
CHECKED	B.WILSON

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MUNICIPALITY:	BASS COAST SHIRE COUNCIL
SCHEME	'POWLETT RIDGE ESTATE', WONTHAGGI - STAGE 3 CHICANE DETAILS
CLIENT:	THE BOULEVARDE PTY LTD

BES REFERENCE: 1129-3	REV
3080/ 20	A
SHEET 20 OF 20	