

SPRING MOUNTAIN

ACREAGE ESTATE STAGE 18B



DD A WING INDEX

18-201-34 EASEMENT PLAN

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MARK SHAW hereby certify that the As Constructed information shown on this plan is a true and correct record of the sizes, types, materials, classes etc., and it corresponds with the relevant approved Engineering

RPEQ No...17544.......... Dated...06.05.2021....

GENERAL NOTES

- ALL WORK SHALL BE JOINED NEATLY TO EXISTING CONSTRUCTION. WHERE REFERENCE IS MADE ON THESE DRAWINGS TO A KERB LINE, IT SHALL BE TAKEN TO MEAN THE KERB INVERT LINE.
- LEVELS FOR KERB AND CHANNEL CONSTRUCTION ARE SHOWN AT LIP OF CHANNEL UNLESS SHOWN OTHERWISE.
- KERB AND CHANNEL AND SPOON DRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH INSTITUTE OF PUBLIC WORKS ENGINEERING AUSTRALIA STANDARD DWG NO SEQ RS-80. SPOON DRAINS ACROSS ROAD INTERSECTIONS SHALL BE IN ACCORDANCE WITH INSTITUTE OF PUBLIC WORKS ENGINEERING AUSTRALIA STD DWG NO SEQ RS-80. THE CONCRETE SHALL BE CLASS N32 AND THE DEPTH INCREASED BY 50mm TO 175mm AT INVERT. FLUSH KERB TO BE INCREASED IN DEPTH BY 50mm TO 280mm
- IF MACHINE MADE KERB AND CHANNEL IS USED, EXTRA FINES AND 20mm SLUMP IS REQUIRED.
- ALL DRAINAGE CENTRE LINES ARE 2m FROM INVERT OF KERB UNLESS OTHERWISE SHOWN.
- GULLY CONNECTIONS AND STORMWATER PIPES SHALL BE 375mm DIAMETER CLASS '2' R.C. PIPES UNLESS SHOWN OTHERWISE.
- THE CONTRACTOR SHALL INITIALLY EXCAVATE THE PAVEMENT BOX TO 280mm BELOW THE FINISHED PAVEMENT LEVEL SHOWN ON THE DRAWINGS. HE SHALL THEN NOTIFY THE ENGINEER WHO WILL FIX THE PAVEMENT THICKNESS TO BE CONSTRUCTED FOLLOWING THE RESULTS OF SUB-GRADE TESTING.
- NOTWITHSTANDING THE LIMITS OF CUTTING AND FILLING SHOWN ON THE DRAWINGS, THE ACTUAL LIMITS SHALL BE DETERMINED ON SITE BY THE ENGINEER AND SIMILARLY THE FINISHED SURFACE CONTOURS MAY BE ADJUSTED BY WRITTEN DIRECTION OF THE ENGINEER DURING CONSTRUCTION.
- THE MINIMUM CLEARANCE BETWEEN OUTER WALLS OF PIPES IN MANHOLES SHALL BE 150mm.
 SUBSURFACE DRAIN CLEANING POINTS SHALL BE INSTALLED IN
- ACCORDANCE WITH IPWEAQ STD DWG NO SEQ RS-142.
- CONSTRUCTION LOAD CONTROL ON THE INSTALLATION OF REINFORCED CONCRETE STORMWATER PIPE WORK SHALL BE UNDERTAKEN IN ACCORDANCE WITH THE RECOMMENDATIONS DEFINED IN THE CONCRETE PIPE ASSOCIATIONS OF AUSTRALASIA'S "THE INSTALLATIONS OF STEEL REINFORCED CONCRETE PIPES - MINIMUM PIPE COVER REQUIRED FOR VARIOUS COMPACTORS".
- PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL ERECT A 2 STRAND WIRE FENCE INCLUDING SAFETY BARRIER MESH TO THE PERIMETER OF VEGETATION TO BE RETAINED AND/OR
- 14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH OF EXISTING SERVICES WITH RELEVANT AUTHORITIES/DIAL BEFORE YOU DIG PRIOR TO COMMENCING WORKS.
- THE CONTRACTOR SHALL NOTE THE PRESENCE OF EXISTING SERVICES ASSOCIATED WITH THE WORKS. SPECIAL CARE MUST BE TAKEN BY THE CONTRACTOR IN THE VICINITY OF ALL SERVICES.

- THE ENDS OF 150mm ROOFWATER CONNECTIONS FROM LOT DIRECTLY
 TO GULLY PIT SHALL BE CAPPED AND LOCATED WITH NOT LESS THAN 300mm AND NOT MORE THAN 450mm COVER UNLESS OTHERWISE APPROVED
- PROVIDE 1 x KERB ADAPTORS FOR ALL LOTS GRADING TO KERB AND CHANNEL AS PER LAYOUT PLAN. ALL KERB ADAPTORS SHALL BE CAST INTO KERB AND CHANNEL.
- ROOFWATER KERB ADAPTORS SHALL BE LOCATED IN THE KERB AND CHANNEL FOR EACH ALLOTMENT THAT DRAINS PREDOMINANTLY TO THE ROAD FRONTAGE. KERB ADAPTORS SHALL BE LOCATED 0.6 METERS OFF THE SIDE BOUNDARY POSITION OR IF THE ALLOTMENT DRAINS PREDOMINANTLY TO ONE SIDE BOUNDARY THEN LOCATE BOTH KERB ADAPTORS 0.3 METERS AND APART 0.5 METERS

DATUM A.H.D. P.M. No 61324 E 491712.179 N 6931003.529 RL 69.322

1: 2,000 (A1 UNREDUCED)

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REVISIONS

NO	Description	Dale	Dy
Α	ISSUED FOR APPROVAL	11/06/20	DES
В	DRAWING 34 ADDED	20/08/20	DES
С	REVISED LOTS	23/09/20	DES
D	AS CONSTRUCTED WATER AND EWKS	04/03/21	LMS
Е	AS CONSTRUCTED FINAL	06/05/21	LMS

SPRING MOUNTAIN ACREAGE ESTATE

STAGE 18B

OW/106/2020



GENERAL LOCALITY PLAN, DRAWING INDEX AND NOTES

JUN 20 as shown 01 of 33 18-201-01



CONTROL LINE DETAILS - DAWSON CLOSE

PT	CHAINAGE	EASTING	NORTHING	BEARING	RADIUS	TANGENT	DEF ANGLE	ARC-LEN
IP1	0.000	491986.296	6929712.643	253d34'49"	-	-	-	-
TC	11.430	491975.332	6929709.412	253d34'49"	-	-	-	-
IP2	12.848	491973.967	6929709.010	-	14.100	1.423	11d31'27"	2.836
CT	14.266	491972.550	6929708.889	265d06'17"	-	-	-	-
TC	149.103	491838.205	6929697.382	265d06'17"	-	-	-	-
IP3	179.792	491804.648	6929694.508	-	60.000	33.679	58d36'46"	61.379
CT	210.482	491789.625	6929664.365	206d29'31"	-	-	-	-
TC	332.188	491735.336	6929555.439	206d29'31"	-	-	-	-
IP4	350.854	491723.291	6929531.272	-	20.000	27.002	106d56'48"	37.331
CT	369.519	491749.919	6929526.794	99d32'42"	-	-	-	-
TC	502.160	491880.724	6929504.799	99d32'42"	-	-	-	-
IP5	508.987	491887.730	6929503.621	-	20.000	7.104	39d06'42"	13.653
СТ	515.813	491892.422	6929498.287	138d39'25"	-	-	-	-
IP6	526.950	491899.779	6929489.926	138d39'25"	-	-	-	-

MARK SHAW

... hereby certify that the As Constructed information shown on this plan is a true and correct record of the sizes, types, materials, classes etc., and it corresponds with the relevant approved Engineering

LEGEND CONSTRUCTION BOUNDARY PROPOSED ROAD CENTRELINE SCALE 10 5 0 10 20 30 40 50 60 70 80 90 100m 1:1000 (A1 UNREDUCED) DO NOT SCALE THIS DRAWING IF IN DOUBT - ASK!





No	Description	Date	Ву
Α	ISSUED FOR APPROVAL	11/06/20	DES
В	REVISED LOTS / EASEMENT	23/09/20	DES
С	AS CONSTRUCTED FINAL	06/05/21	LMS

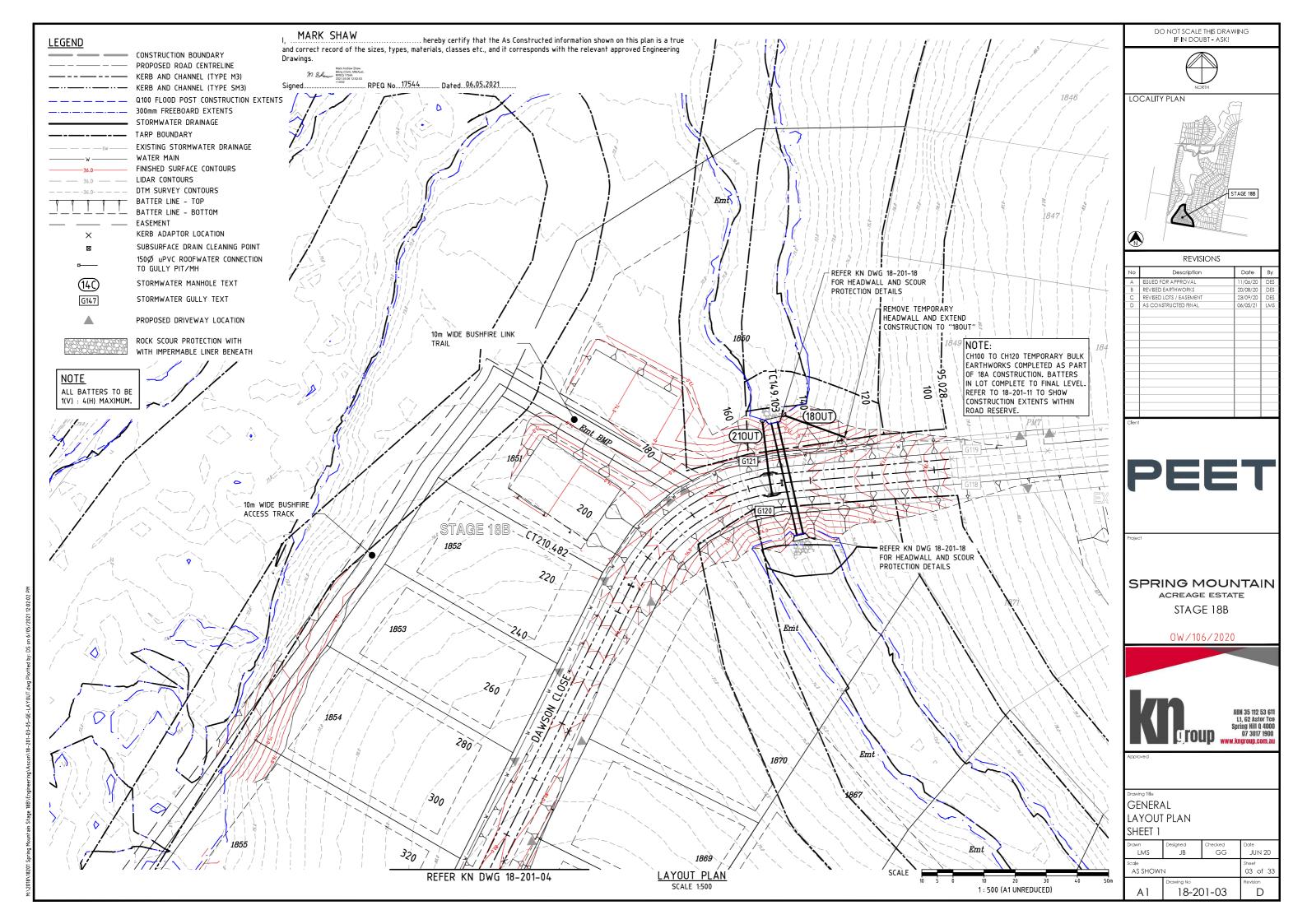
SPRING MOUNTAIN ACREAGE ESTATE STAGE 18B

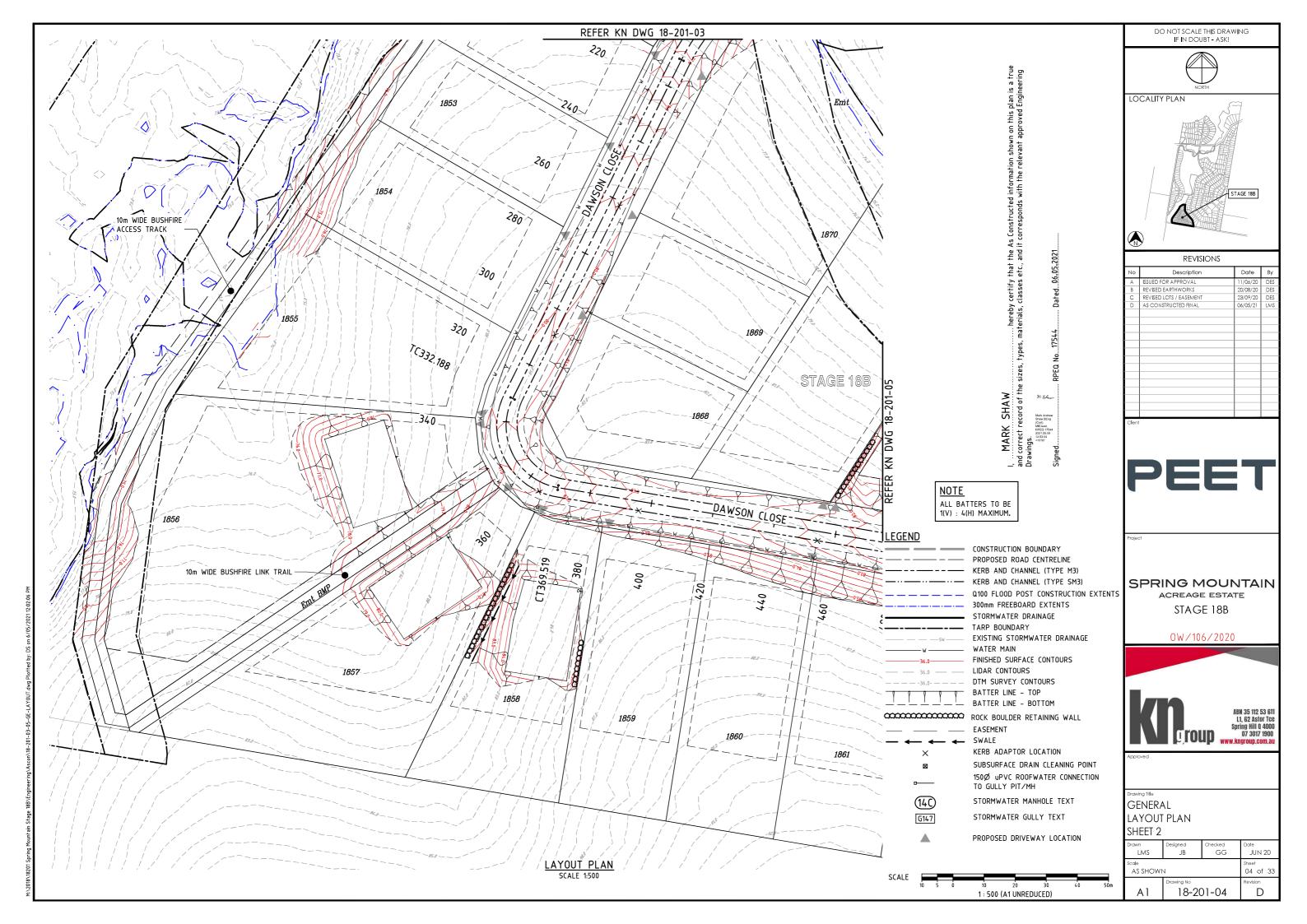
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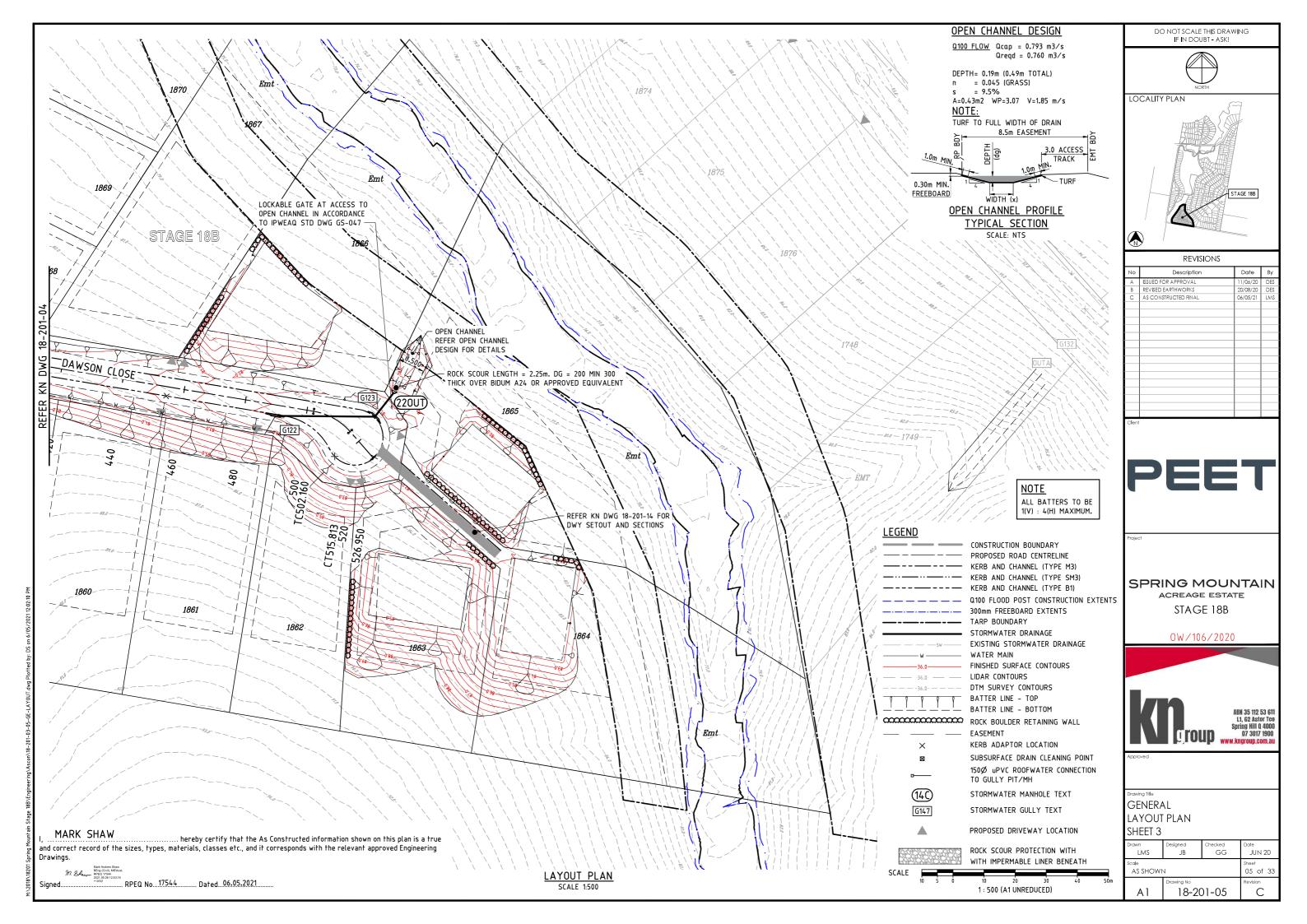


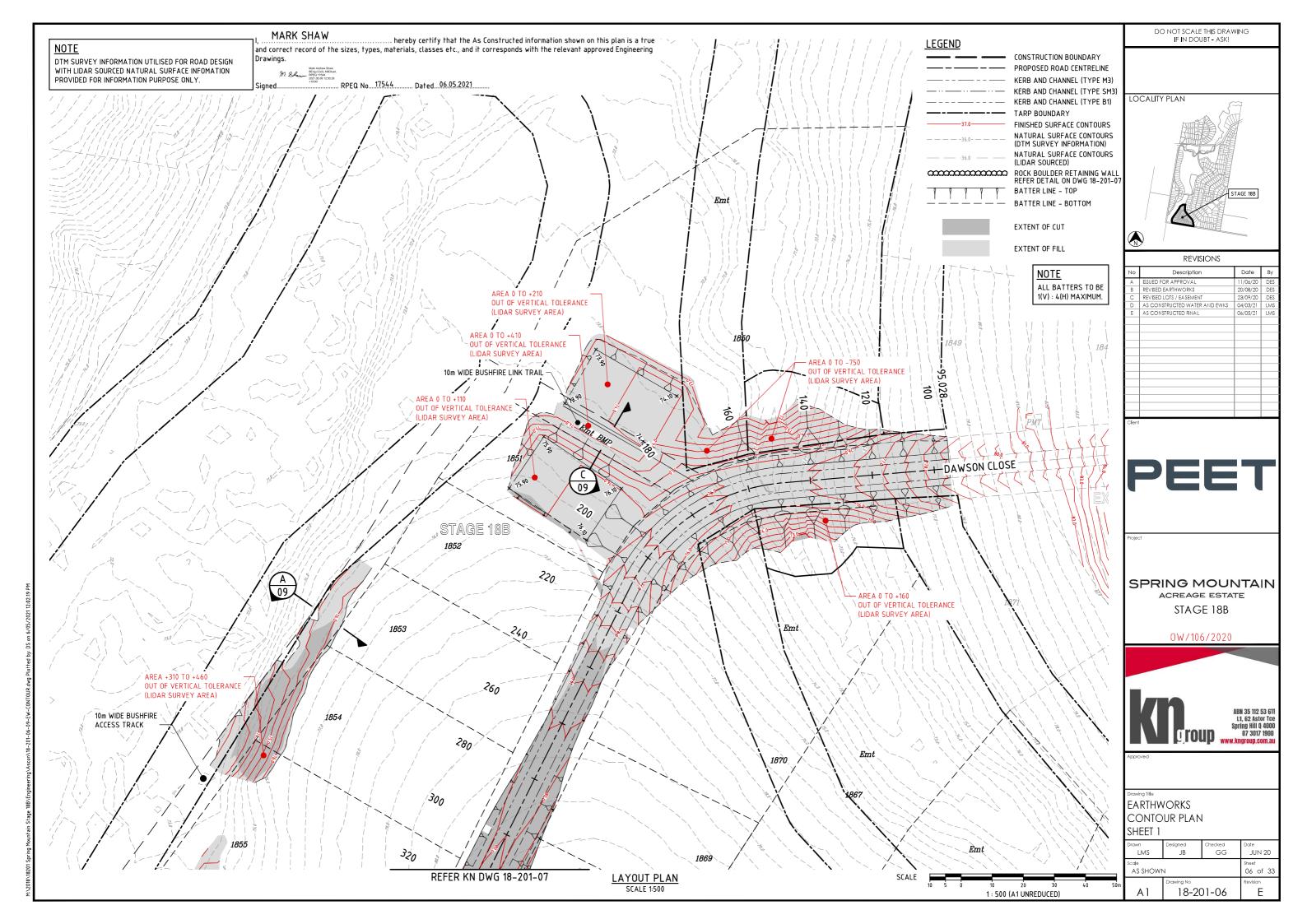
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GENERAL SETOUT PLAN

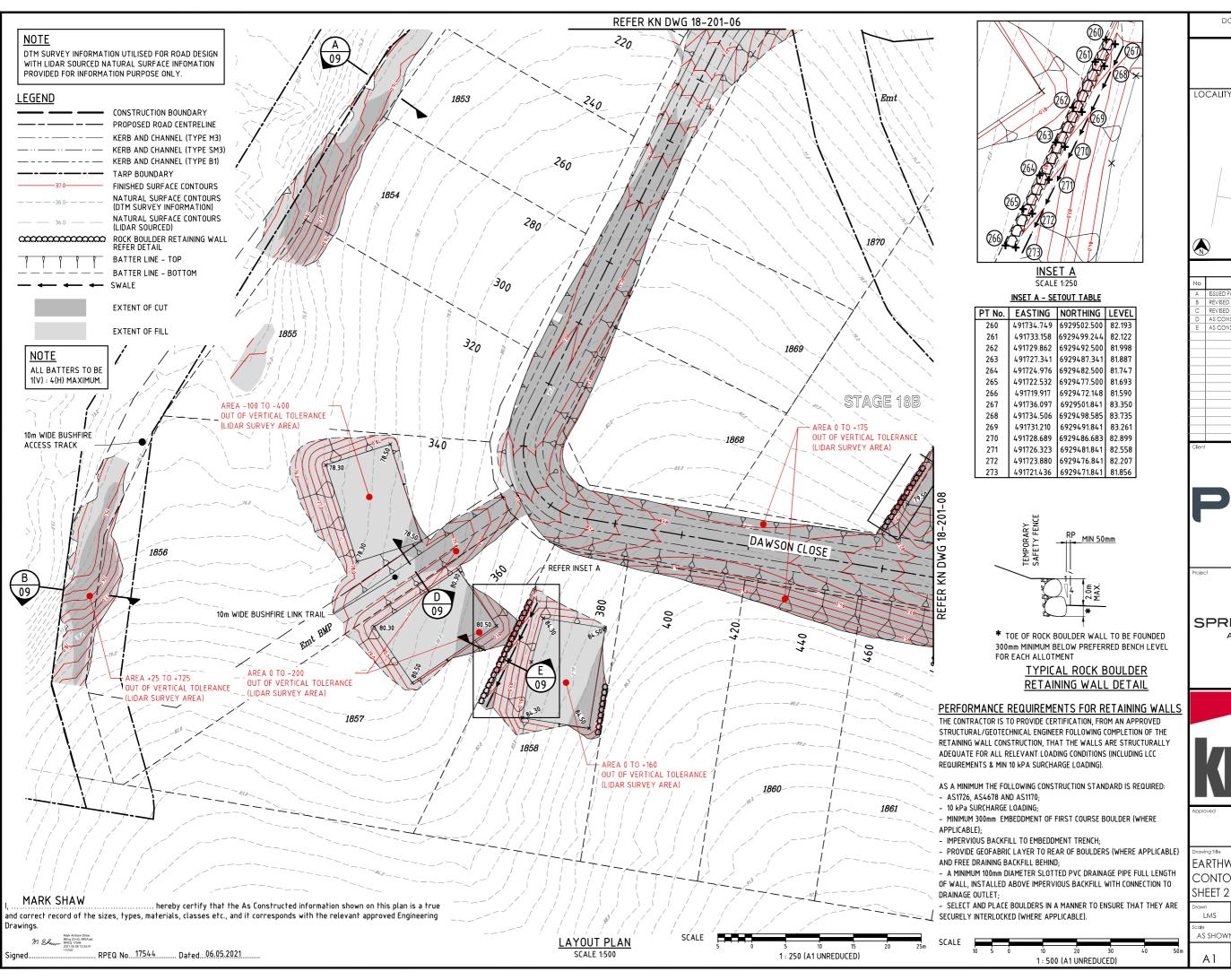
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Drawn	Designed	Checked	Date
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Scale		Sheet	
AS SHOWN		02 of 33	
A1	Drawing No 18-20	01-02	Revision













REVISIONS

No	Description	Date	Ву		
Α	ISSUED FOR APPROVAL	11/06/20	DE:		
В	REVISED EARTHWORKS	20/08/20	DE:		
С	REVISED LOTS / EASEMENT	23/09/20	DE:		
D	AS CONSTRUCTED WATER AND EWKS	04/03/21	LM.		
Е	AS CONSTRUCTED FINAL	06/05/21	LM		

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SPRING MOUNTAIN
ACREAGE ESTATE

STAGE 18B

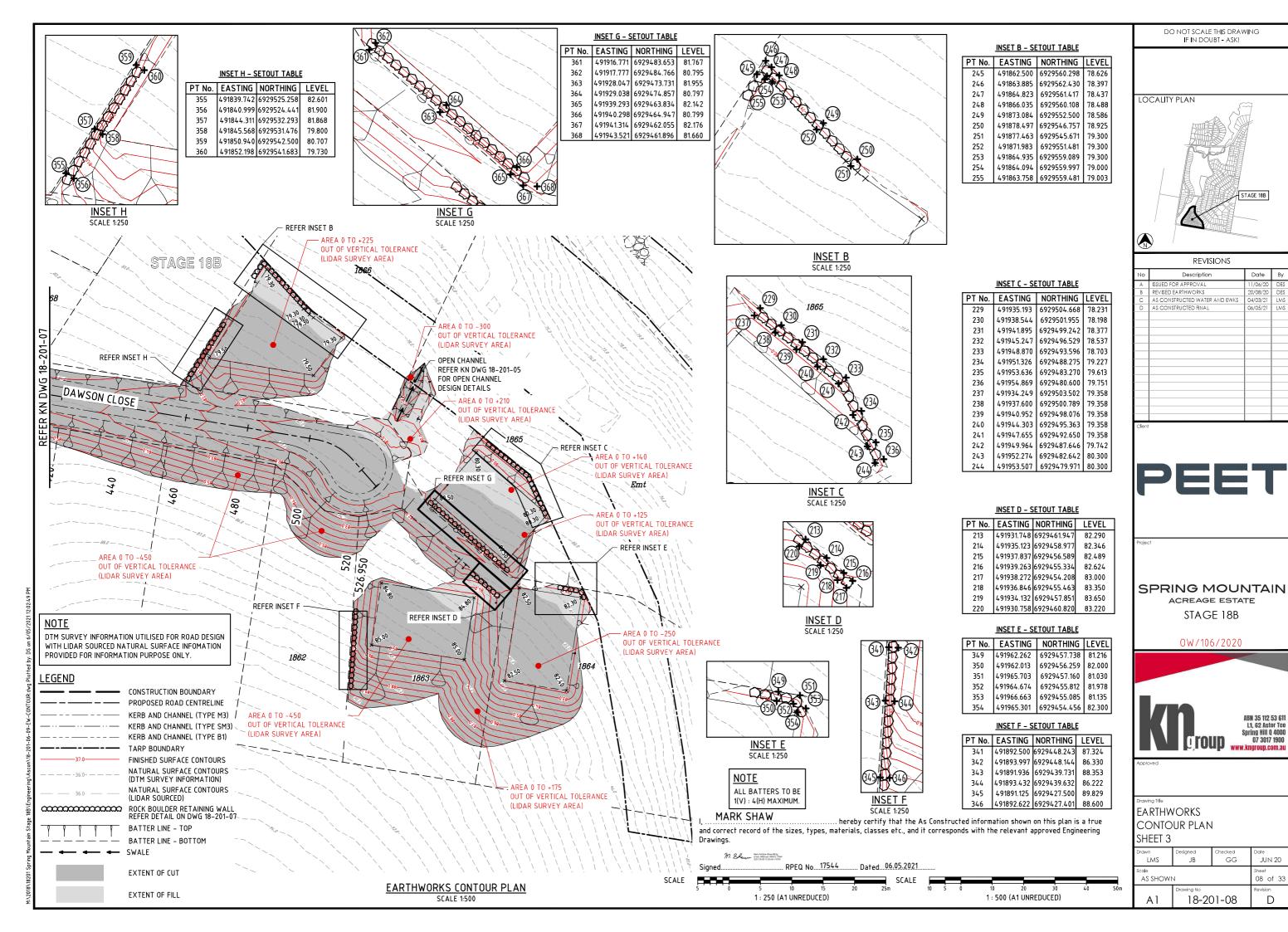
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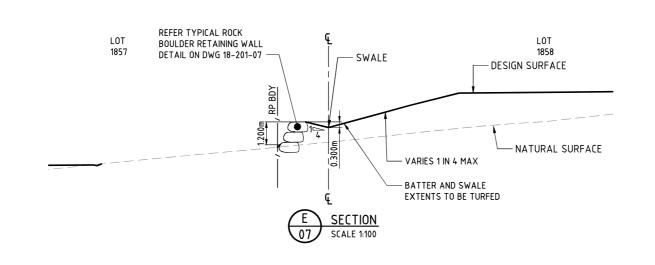


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EARTHWORKS CONTOUR PLAN SHEET 2

n	A1	Drawing No 18-201-07		Revision E
	Scale AS SHOWI	Sheet 07 of 33		
	LMS	JB	GG	JUN 20

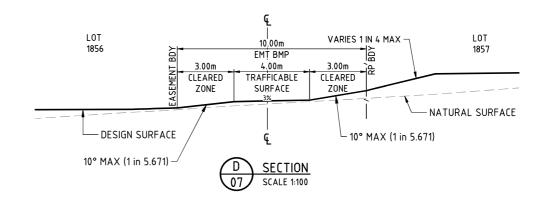


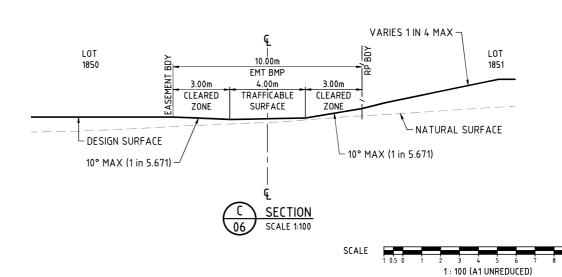


MARK SHAW

I, MAKN SHAW hereby certify that the As Constructed information shown on this plan is a true and correct record of the sizes, types, materials, classes etc., and it corresponds with the relevant approved Engineering Drawings.

M. Slaw BEng (Civil), MIEAust, RPEQ 17544 2021 05.06 12:55:40 440007





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No	Description	Date	Ву
Α	ISSUED FOR APPROVAL	11/06/20	DES
В	NOTE ADDED	20/08/20	DES
С	REVISED SECTIONS	23/09/20	DES
D	AS CONSTRUCTED WATER AND EWKS	04/03/21	LMS
Е	AS CONSTRUCTED FINAL	06/05/21	LMS

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Project

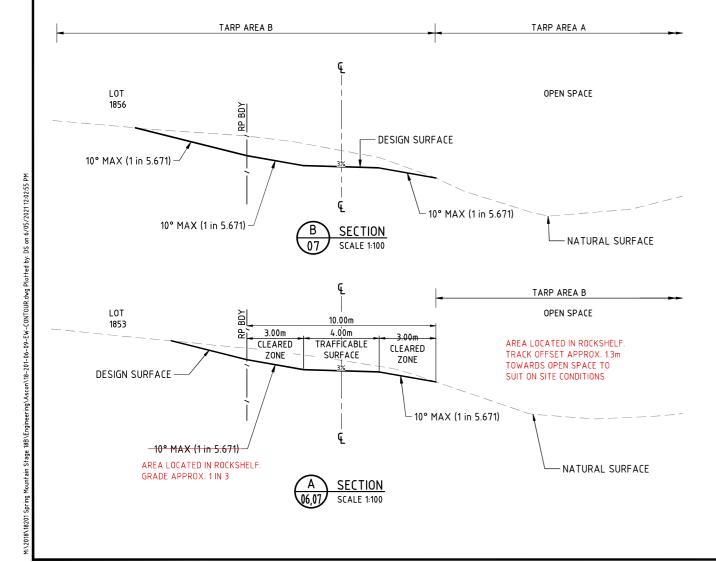
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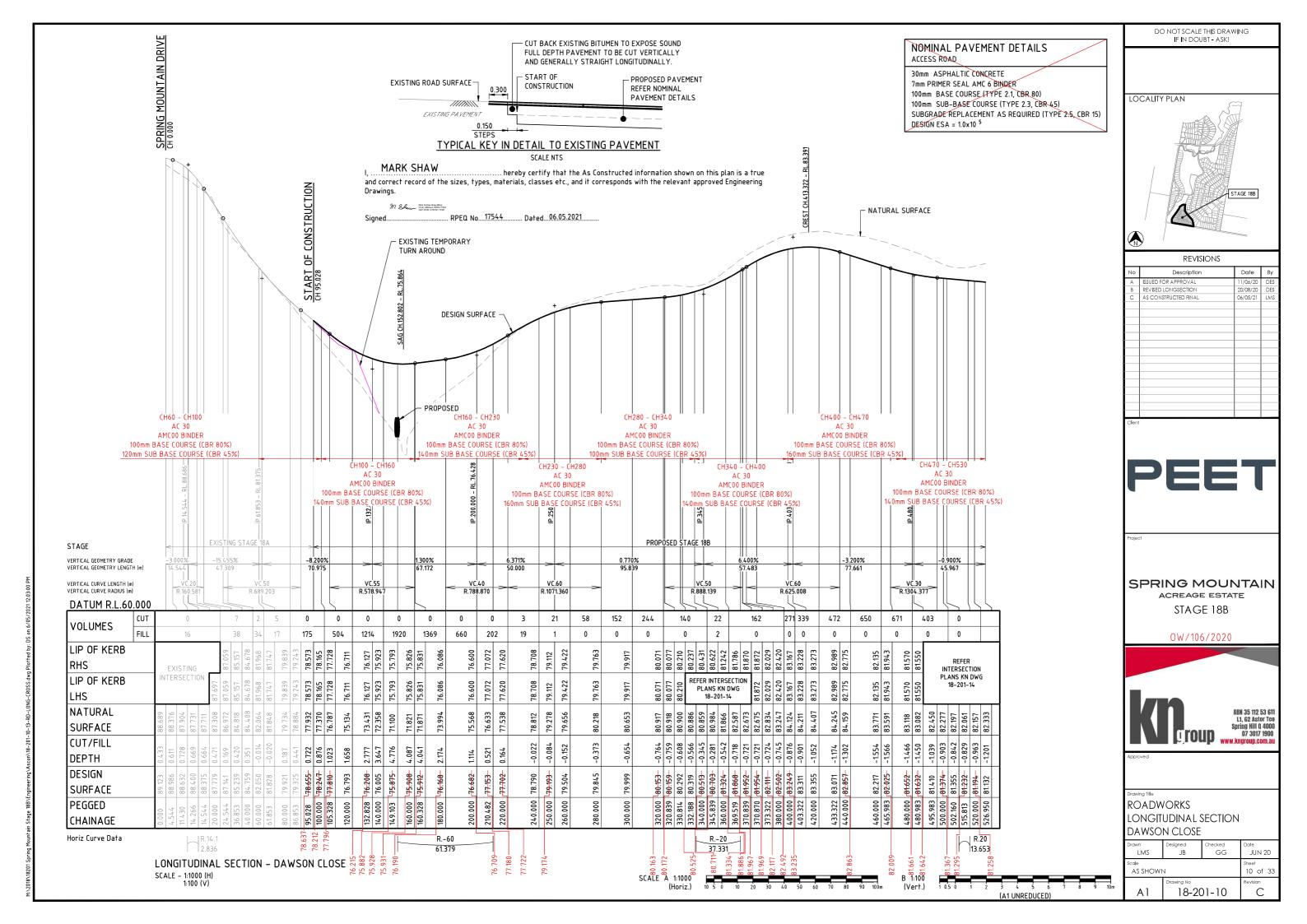
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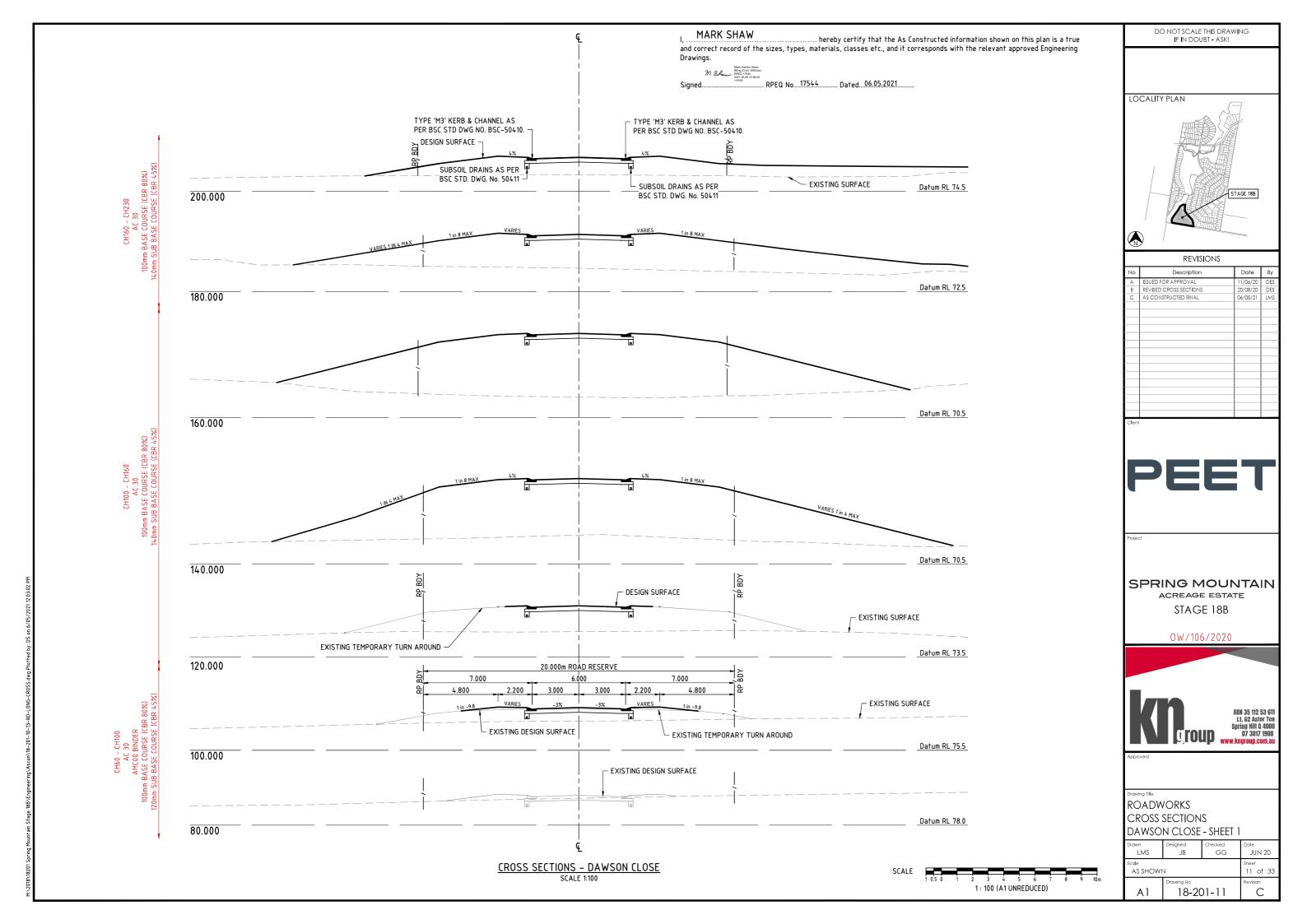


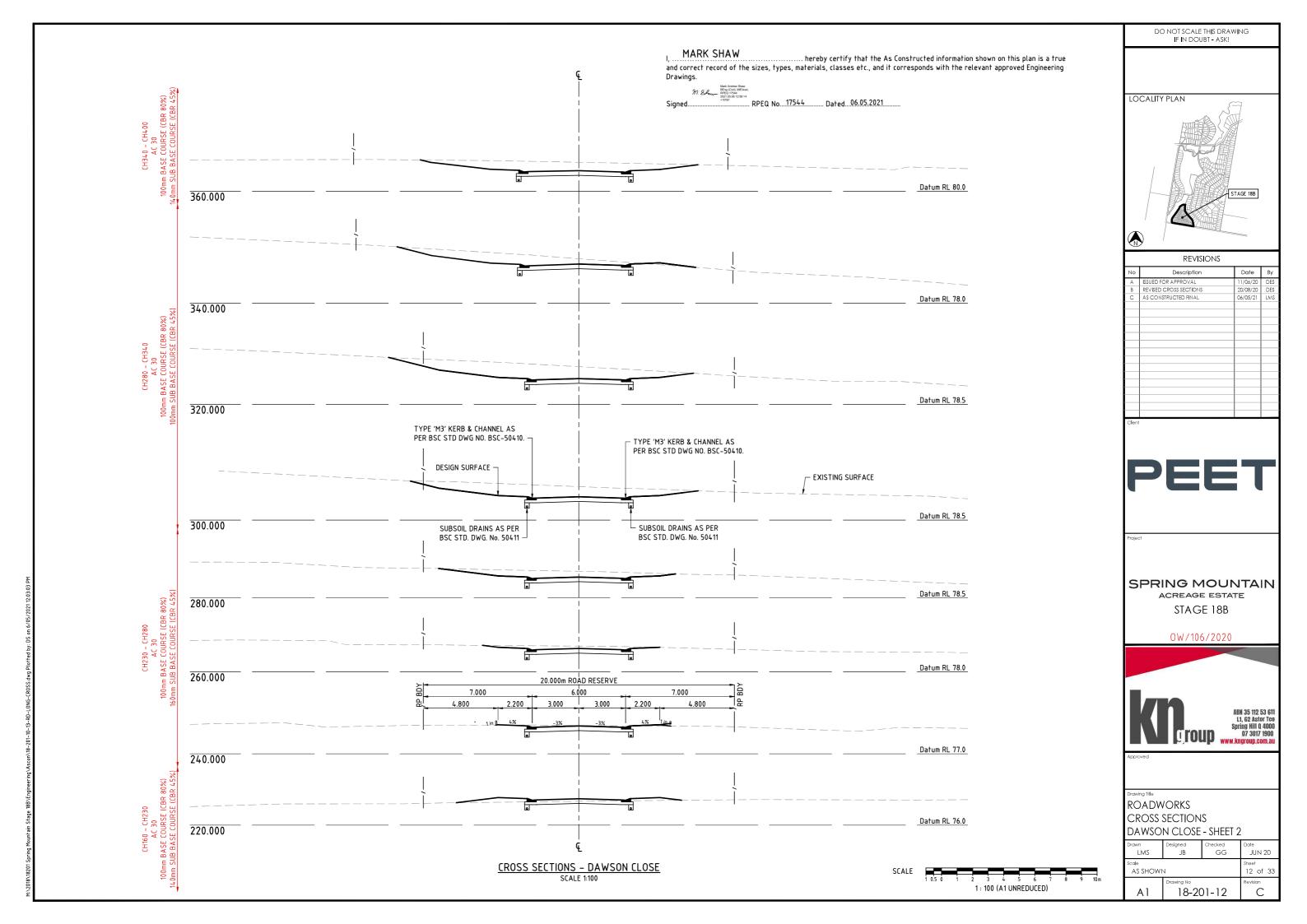
EARTHWORKS
BUSHFIRE ACCESS TRAIL
TYPICAL SECTIONS

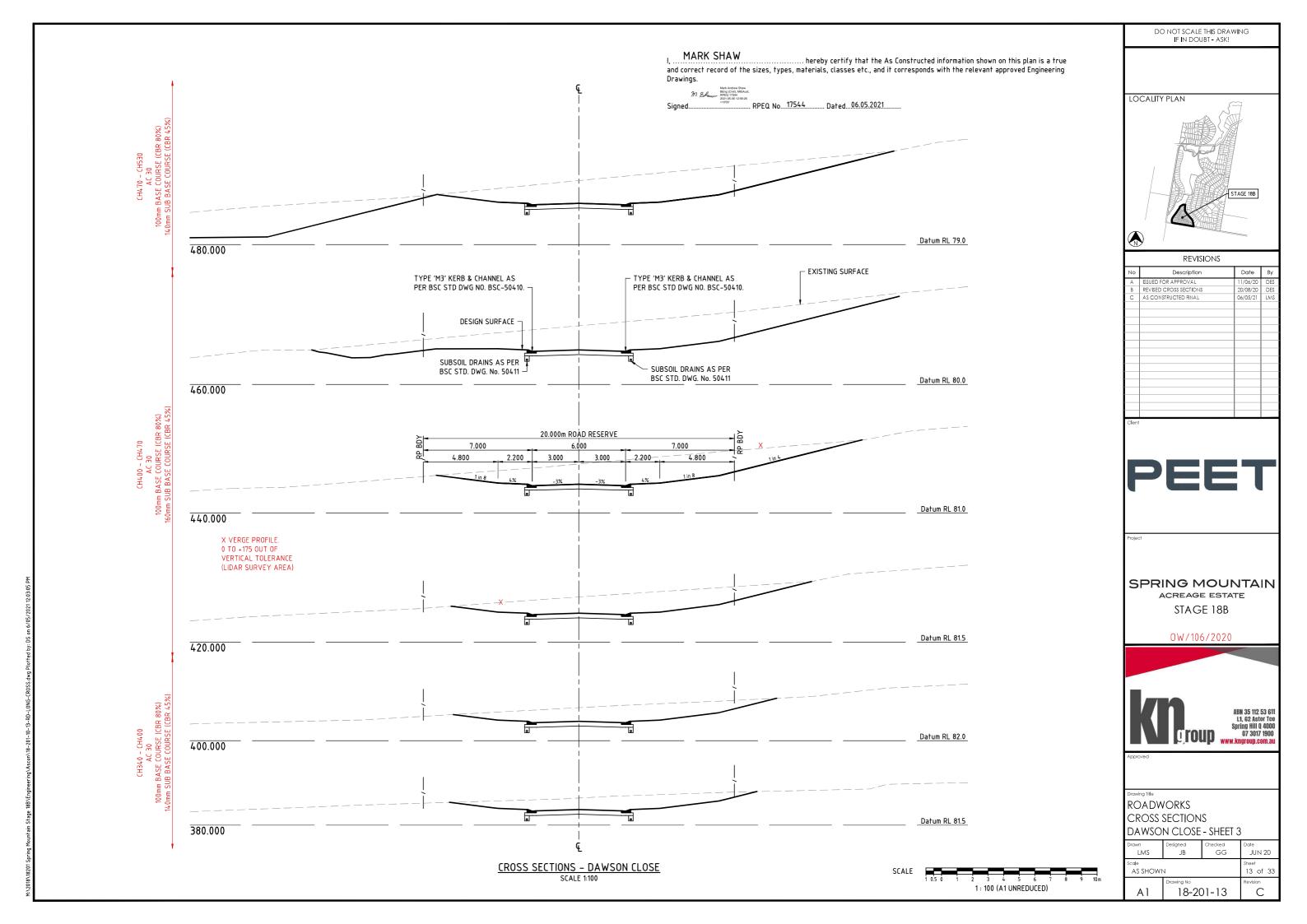
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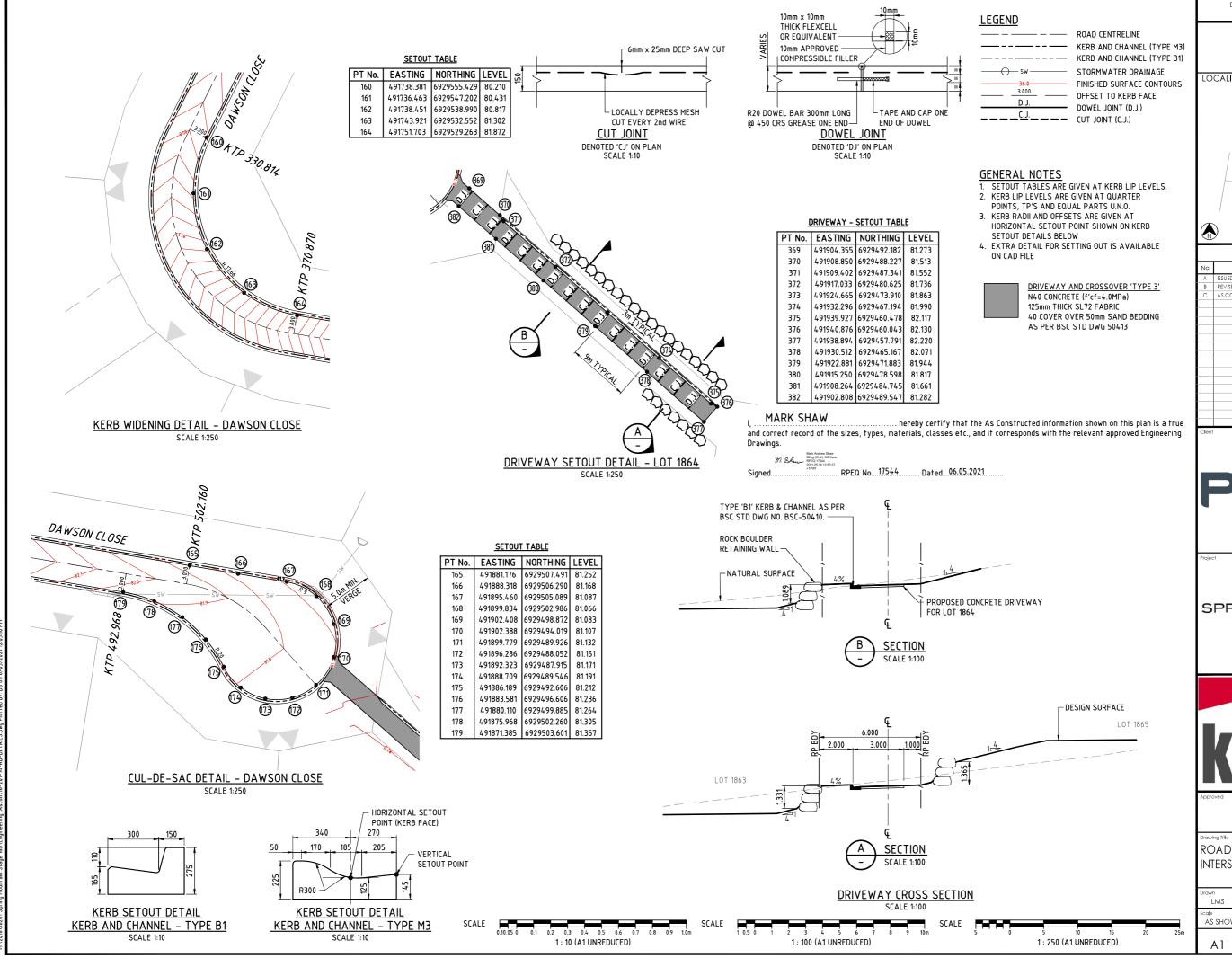














REVISIONS

No	Description	Date	Ву
Α	ISSUED FOR APPROVAL	11/06/20	DES
В	REVISED TABLES/DETAILS	20/08/20	DES
С	AS CONSTRUCTED FINAL	06/05/21	LMS

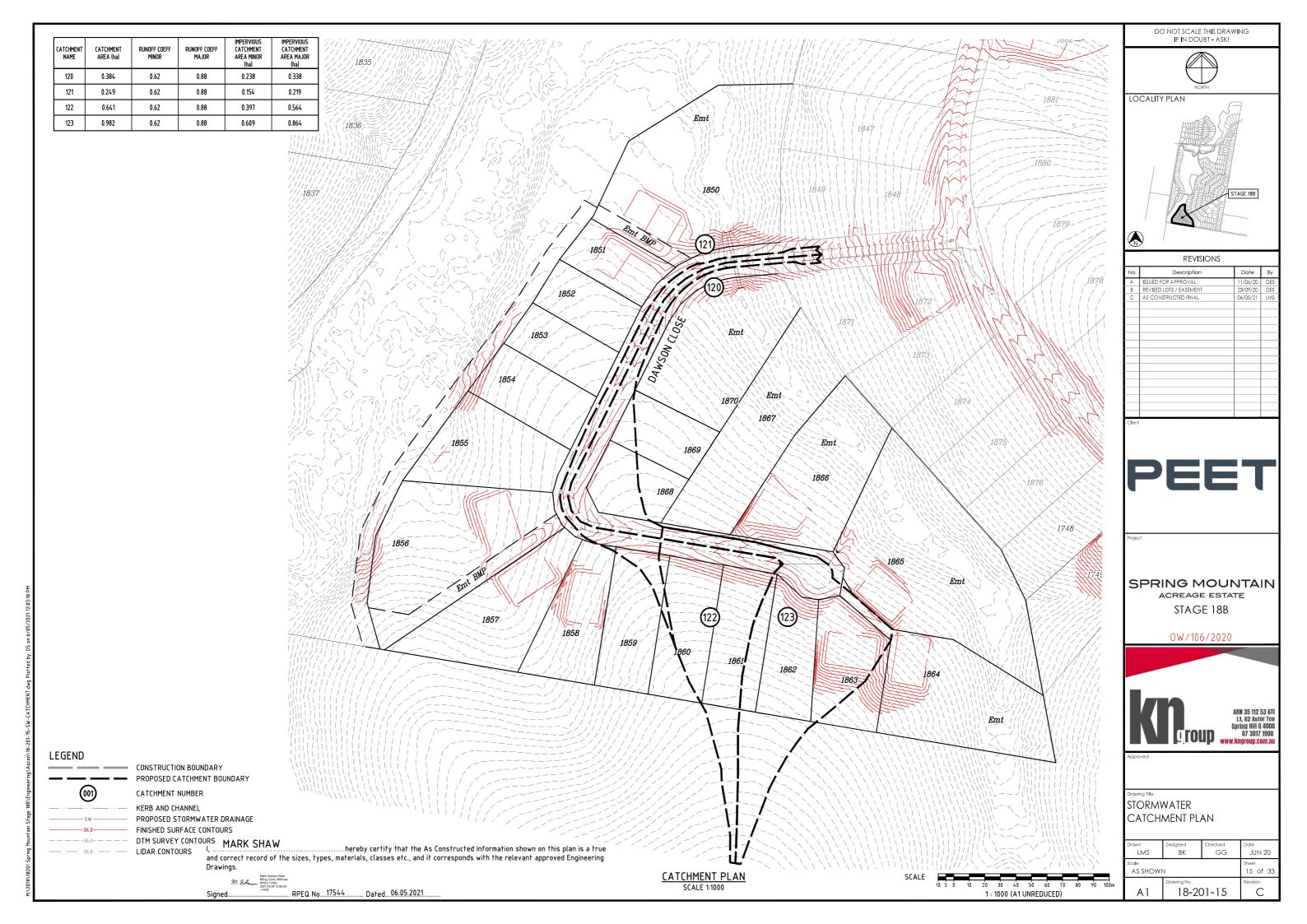
SPRING MOUNTAIN ACREAGE ESTATE STAGE 18B

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ROADWORKS INTERSECTION DETAILS

JUN 20 18-201-14



	11	CATION			TIMI		SUR.	-CATCH	MENT RU	INNFF				IN.	LET DES	SIGN			$\overline{}$				nı	RAIN DE	SIGN									HF	ADLOS	SSFS						P	ART FUL		$\overline{}$			SIGN LEV	/FIS	—	\neg
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					ENT	<u></u>			AREA								ug	45					>		FLOW	ΨР			(5)				SC	7272	9 1																
DESIGN ARI	STRUCTURE No.	DRAIN SECTION	SUB-CATCHMENTS Contributing	LAND USE	SLOPE OF CATCHMENT SUB-CATCHMENT	TIME OF CONC. RAINFALL INTENSITY	10yr RUNOFF	CO-EFFICIENT		EQUIVALENT AREA	SUM OF (C × A)	SUB-CATCHMENT DISCHARGE	FLOW IN K&C (INC. BYPASS)	AT INLET	ROAD CAPACITY	INLET TYPE	FLOW INTO INLET	BYPASS FLOW	STRUCTURE No.	TIME OF CONC.	RAINFALL INTENSITY	TOTAL (C × A)	I I	CAPACITY	FACE	PIPE FLOW	REACH LENGTH	PIPE GRADE	PIPE / BOX DIMENSIONS (CLAS	FLOW VELOCITY FULL (PIPE GRADE VELOCITY)	TIME OF FLOW IN REACH	CHART No.	STRUCTURE RATIOS FOR 'K' VALUE CALCULATIONS	VELOCITY HEAD	U/S HEADLOSS	COEFFICIENT U/S PIPF STRUCT	HEADLOSS I AT HEADIOSS	CO-EFFICIENT LAT. PIPE STRUCT.	HEADLOSS W.S.E	CO-EFFICIENT	PIPE FRICTION	DPE E FRICTION	HEADLOSS (L × Sf)	VELOCITY	0 10/10 1 10/100	OBVERT LEVELS DRAIN SECTION	H.G.L	UPSTREAM H.G.L	W.S.E.	SURFACE OR K&C INVERT LEVEL	STRUCTURE No.
угѕ					% min	n mm/	h		ha	ha	ha	l/s	l/s	% l	/s	l	/s	l/s			m/h	ha l	_	_			m	%	mm	m/s	min			П			m	Г	П	П			пп					п п	m m		
2 100	G101	G101 to G102	101		15.0 15.0		2	0.62 0.88		0.374	0.264 0.374		70 DW WIDTH 1 VNSTREAM	.500 m	247		61 OCKED 0)			15.00	95 0 192 0	1.264 1.374	199 1			r= Grate f	lew)	1.95		5(0.47 1y) (2.21)	0.86			0.01	5 5.5	90 0.	091		5.90	0.0	91 0.1	2 0.0	62 0.12 (0.118	27 1.84 3 1y) [1.76 1	ly] 89.1	9.154 89.1 3.152 88.0	.154 89.2 .090	9.245	89.245	90.194	G101
2 100	G102	G102 to 18A	101;102		5.0 5.0	0 14		0.75 1.00	0.090 0.090	0.068 0.090	0.068 0.090	28 74 FL	28 DW WIDTH 1		142		28 OCKED 0)	0	G118	15.86 15.86	93 0 188 0	1.332 1.464	242		165 flow= Sun					0 0.59 1y) (1.23)	0.16		Part full downstream pipe Upstream HGL 88.090 below out pipe obv 88.132 Set Kp to 1.6		5 1.6	60 0	.131		1.60	0 0.13	81 0.1	9 0.0	8 0.20 [0.183	02 1.27 3 1y) [1.22 1	ly] 88.1	.076 87.5	959 88.0 903	.090	88.090	89.169	G102
2 100	G103	G103 to 18A	103		15.0 15.0			0.62 0.88	0.457 0.457		0.283 0.402	75 214 FL DO	83 DW WIDTH 2 VNSTREAM	.108 m	142		69 OCKED 0)	15 G	104A		95 0 192 0	0.283 0.402	214		146 (Pipe floo			2.00		2 0.50 1y) (2.24)	0.15			0.02	0 7.9	90 0.	155		7.91	0 0.15	5 0.1	5 0.0		35 1.92 1 1y) (1.81 1				:315	88.315	89.125	G103
2 100	18A	18A to G118	18A -Maj;101;102;10 3													16	(0		n Imp Are			0.866 Maj 0.724	Overland	(Pipe Flow Maj		upstr att				9(1.07 1y) (5.17)	1.19			0.08	5 1.3	30 0	.110		1.30	0 0.11	0 0.6	6 0.6	0 0.12	28 4.30 5 1y) (4.08 1	1y) 87.4	456 87.4 .691 77.	456 87.5 737	.566	87.566	89.113	18A
2 100	G119	G119 to G118	119		5.0 5.0	0 14		0.75 1.00	0.054 0.054			17 44 FL	17 DW WIDTH 0		408		17 OCKED 0)		5121	5.00 5.00		0.041 0.054	44 2		28 (Pipe floo			3.69		(3.05)	0.11		Part full downstream pipe Upstream HGL 77.781 below out pipe obv 77.937 Set Kp to 7.9		1 7.5	90 0.	043		7.91	0.04	3 0.0	1 0.0		57 1.59 0 1y) (1.46 1				.781	77.781	78.781	G119
2 100	G118	G118 to 180UT	18A -Maj;101;102;10 3;119;118		5.0 5.0			0.75 1.00		0.044 0.058	0.044 0.058	18 48 FL	18 DW WIDTH 0		408		18 OCKED 0)		5120		89 0 181 0).700).978	92 2		333 flaw= Sun					4(1.19 1y) (5.22)	0.69		Og 0.011 Oo 0.159 Do 375 Routine 2.24 Join Pipes: 18A and G119 Vel1 1.251 Vel2 0.092 Eq Dia 401 Angle 148 Flow 0.148		6 0.4	62 0.	CI S. D	 HART 34 An: JUO 2.5 Ju/Do 1.07 Qg JUO 1.17 cor	gle 32 Case 1/Qo 0.07 K	e3 (0.51	6 0.8	3 0.4		35 4.46 ? 1y) (4.23 1				.737	77.731	78.781	G118
2 100	G120	G120 to G121	120		15.0 15.0			0.62 0.88	0.384 0.384			63 180 FL	63 DW WIDTH 0		192 185		63 0CKED 0)		5121	15.00 15.00	95 0 192 0).238).338	180		117 e flow= Su					7(0.44 1y) (3.17)	0.11			0.01	7 7.9	90 0	.131		7.91	0 0.1	81 0.1	3 0.0	8 0.10	08 2.40 4 1y) (2.23 1	74.1 ly) 74.1	.745 74.1 .481 74.1	745 74.8 214	.876	74.876	75.782	G120
2 100	G121	G121 to 210UT	120;121		15.0 15.0			0.62 0.88			0.154 0.219	41 117 FL	41 OW WIDTH 0		192 181		41 OCKED 0)			15.11 15.11	95 0 192 0).392).557	297		194 e flow= Su					4(0.73 1y) (6.00)	0.28		Og 0.041 Oo 0.103 Do 375 Flow G120 made eqv grate flow CHRT 32: Vo2/2gDo 0.12 H/Do 0 Kq side flow 7.53 end flow 5.82 K vals above for stepped pipes	00	5 7.5	53 0.	339		7.53	3 0.3	39 0.3	5 0.0		00 4.37 3 1y) (4.06 1				.996	73.996	75.782	G121
2 100	G122	G122 to G123	122		15.0 15.0		2	0.62 0.88	0.616 0.616		0.382 0.542		101 DW WIDTH 2 WNSTREAM	.165 m	162		78 OCKED 0)		5123	15.00 15.00	95 0 192 0	1.542	289	991	211 (Pipe floo	78 3 v= Grate fl		1.41		(1.89)	0.51			0.02	6 5.9	90 0.	152		5.91	0 0.15	0.2	0.0		50 1.75 5 1y) (1.67 1	ly] 80.5	525 80.5 .090 80.5	525 80.6 403	.676	80.676	81.377	G122
2 100	G123	G123 to 220UT	122;123		15.0 15.0	10 9 10 19		0.62 0.88	0.572 0.572	0.355 0.503	0.355 0.503	94 268 FL	116 GW WIDTH 1		192 18:		116 OCKED 0)			15.51 15.51	94 0 190 1).737 1.045	552		357 e flow= Su					6(1.37 1y) (2.24)	0.09		Qg 0.116 Qo 0.194 Do 375 CHART 37 Angle 53 Case2 S/Do 2.5 Du/Do 1.00 Qg/Qo 0.60 K 1.78 S/Do 1.89 cor 0.33 Ku 2.11 Kw 2:		8 2.	.11 0.	333		2.11	1 0.33	33 1.2	3 0.12	0 0.25	50 2.48 2 1y) (2.35 1	(y) 79.1	070 80.0 .875 79.1	070 80.4 750	.403	80.403	81.066	G123

CALCULATIONS TABLE

DO NOT SCALE THIS DRAWING IF IN DOUBT - ASK!



REVISIONS

		No	Description	Date	Ву
ı		Α	ISSUED FOR APPROVAL	11/06/20	DES
ı	H	В	REVISED CALCS SHEET	20/08/20	DES
	H	С	AS CONSTRUCTED FINAL	06/05/21	LMS
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SPRING MOUNTAIN ACREAGE ESTATE STAGE 18B

OW/106/2020



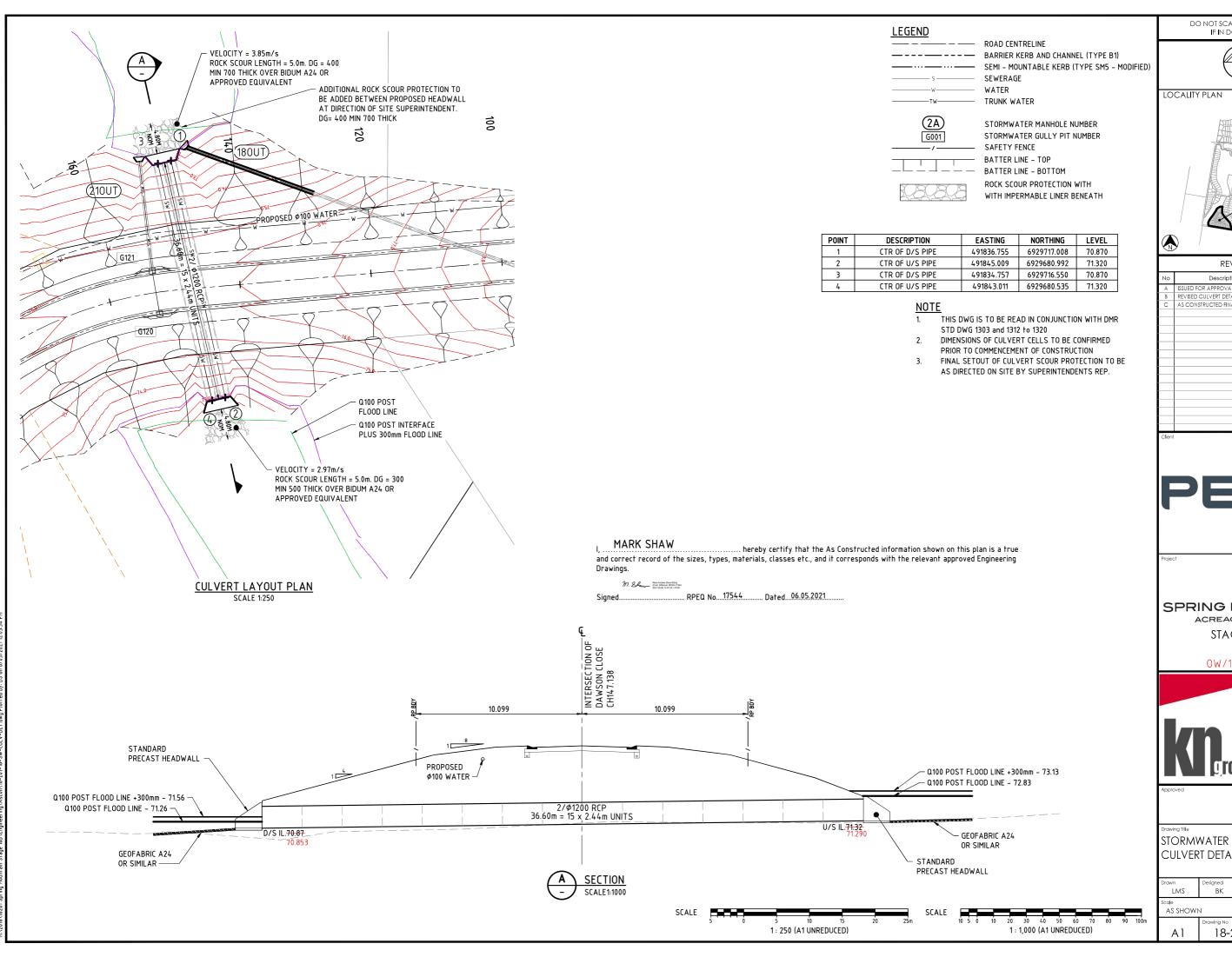
STORMWATER CALCULATION TABLE

Drawn LMS	Date JUN 20							
Scale AS SHOWI	Sheet 16 of 33							
A1	Drawing No 18-20	Revision						

. RPEQ No...17544....... Dated...06.05.2021



2018/18201 Spring Maintain Stade 188/Endineering/Ascon/18-201-17-5W-1 MGS dwg Plotted hy: NS on 6/05/2021 12:03:28







REVISIONS

	No	Description	Date	В
	Α	ISSUED FOR APPROVAL	11/06/20	DI
١	В	REVISED CULVERT DETAILS	20/08/20	DI
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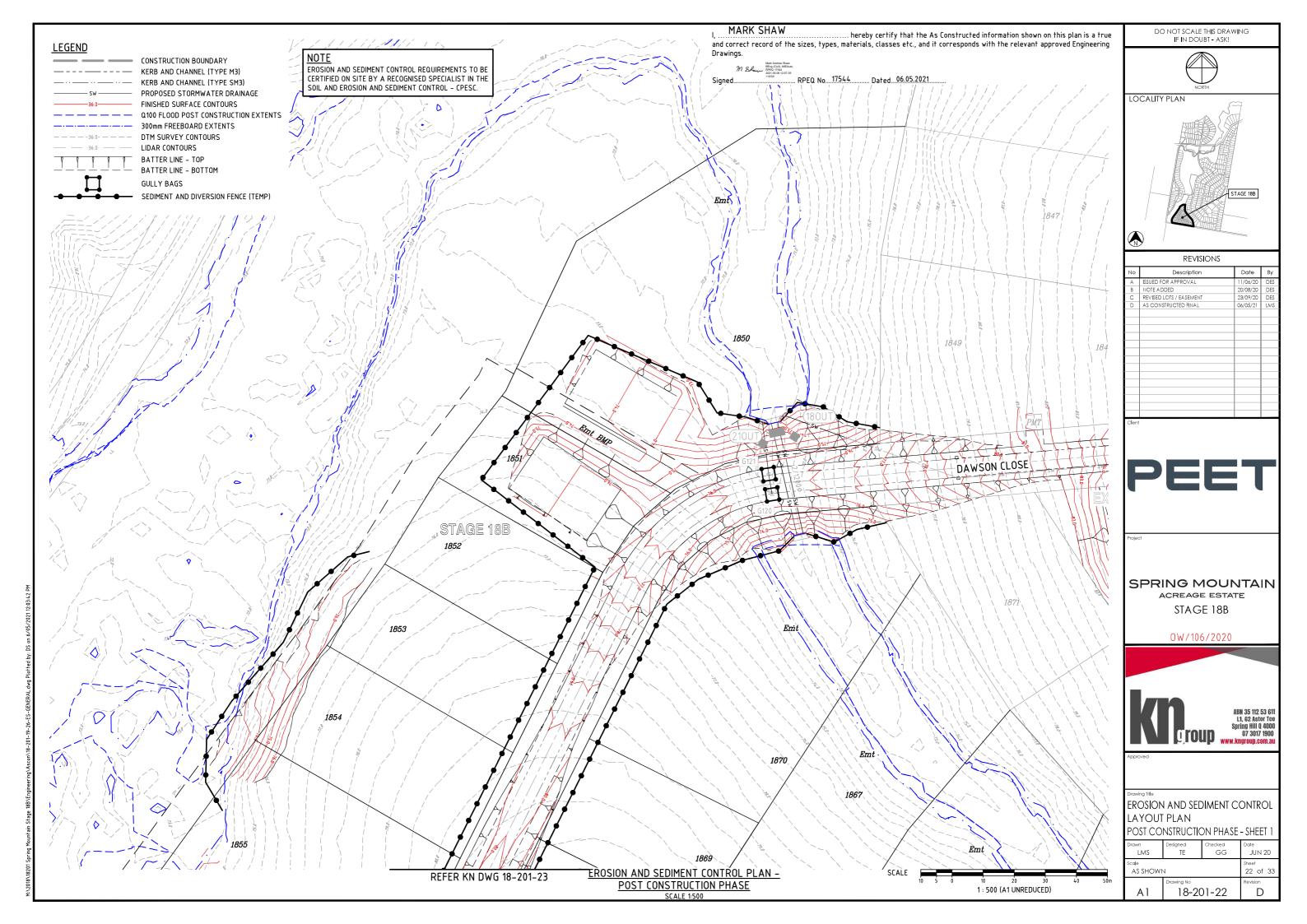
SPRING MOUNTAIN ACREAGE ESTATE STAGE 18B

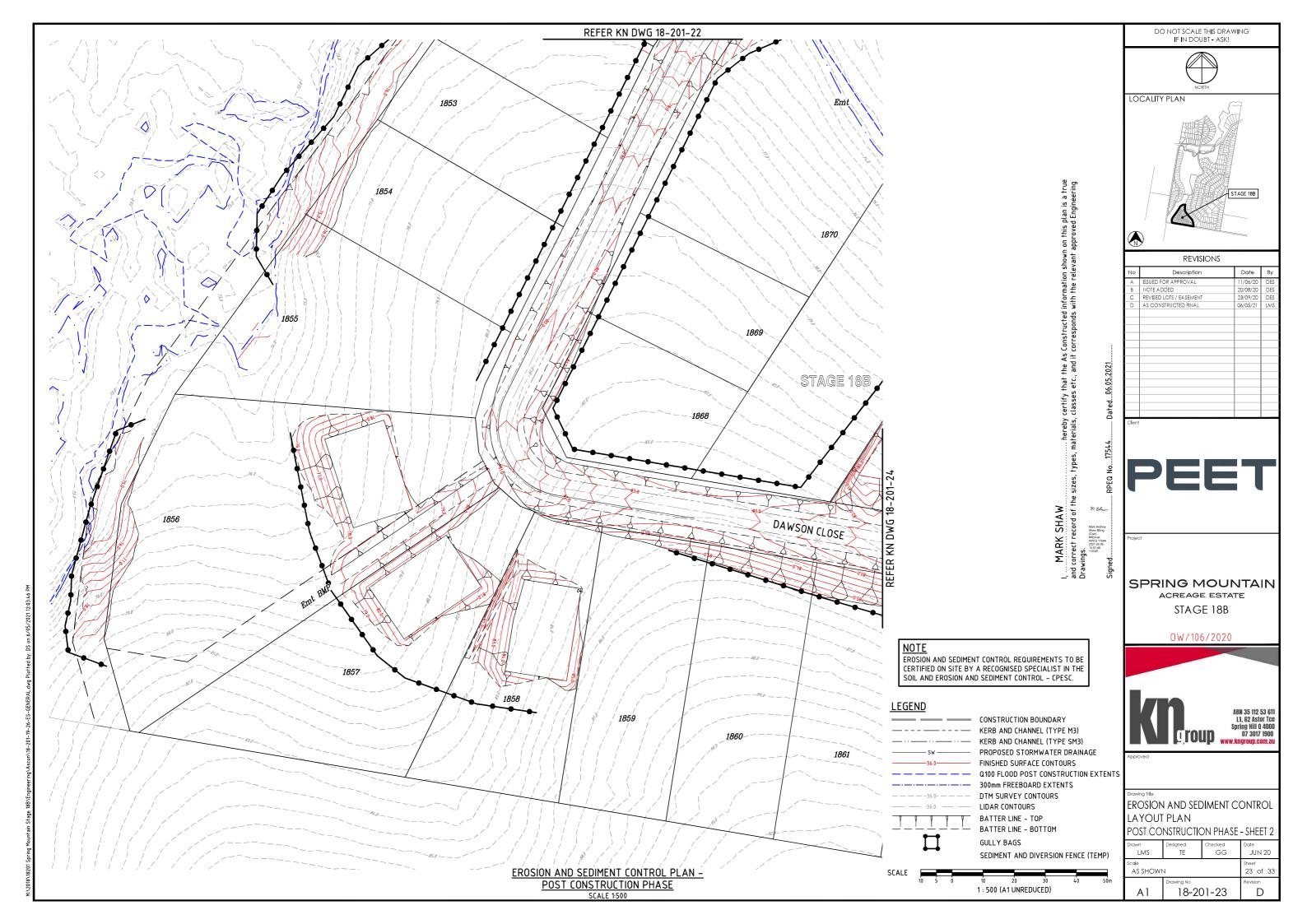
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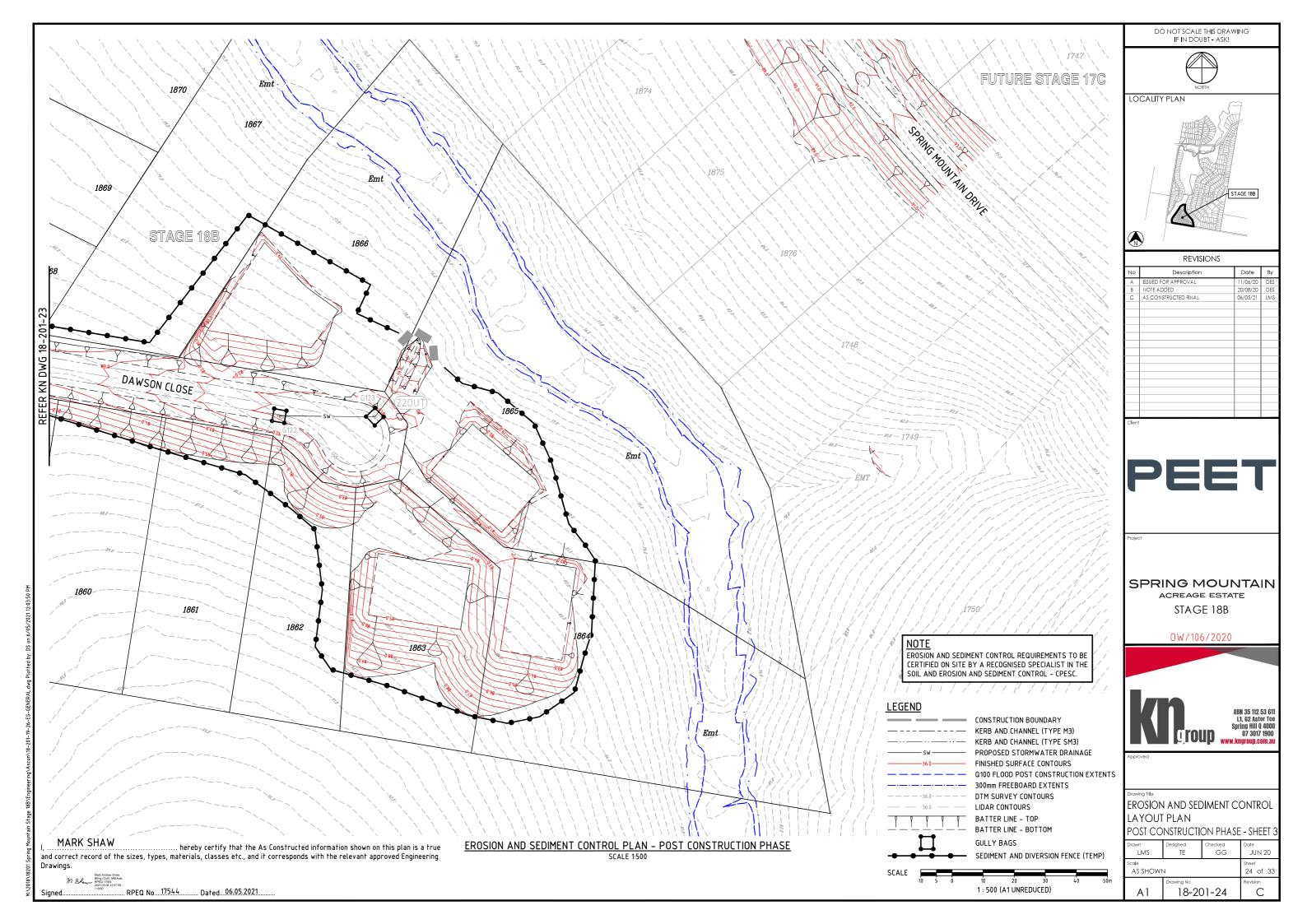


CULVERT DETAIL

Drawn LMS	Designed BK	Checked GG	JUN 20
Scale AS SHOWI	Sheet 18 of 33		
Αl	Drawing No 18-20	Revision	







- THE BASIC OBJECTIVES OF THE EROSION AND SEDIMENT CONTROL ARE:
 - IDENTIFY CRITICAL AREAS AND PROVIDE APPROPRIATE ATTENTION TO THOSE AREAS.
 - PLAN SITE LAYOUTS SO THAT ACCESS TO ALL REQUIRED DRAINAGE EROSION AND SEDIMENT CONTROL MEASURE IS MAINTAINED.
 - LIMIT EXPOSURE TIME BY PROGRAMMING TO MINIMISE THE AREA OF LAND EXPOSED TO POTENTIALLY ADVERSE WEATHER CONDITIONS AT ANY ONE TIME. I.E. PROGRESSIVELY CLEAR AND REVEGETATE.
 - IV. PROVIDE CONTROL MEASURES INCLUDING TEMPORARY AND PERMANENT DRAINAGE, EROSION AND SEDIMENT CONTROLS.
- THE EROSION AND SEDIMENT CONTROL SHALL COMPLY WITH BEST PRACTICE FOR EROSION AND SEDIMENT CONTROL. THE POLLUTION CONTROL MANUAL FOR URBAN STORMWATER MANAGEMENT, THE QUEENSLAND URBAN DRAINAGE MANUAL, AND THE SOIL EROSION AND SEDIMENT CONTROL - ENGINEERING GUIDELINES FOR QUEENSLAND (CURRENT EDITIONS).
- CONSTRUCTION SEQUENCE THE CONSTRUCTION SEQUENCE WILL GENERALLY BE: OBTAIN ALL NECESSARY PERMITS AND APPROVALS BEFORE SITE
 - ESTABLISHMENTS.
 - HOLD A PRE-CONSTRUCTION CONFERENCE.
 - STABILISE ALL CONSTRUCTION ACCESS ROUTES AND ENTRY/EXIT POINTS.
 - ESTABLISH SEDIMENT CONTROL STRUCTURES AND TEMPORARY DRAINAGE CONTROL MEASURES AS NECESSARY.
 - CARRY OUT BULK EARTHWORKS.
 - MAINTAIN AND REPAIR DRAINAGE, EROSION AND SEDIMENT CONTROL MEASURES.
 - VII. REMOVE SEDIMENT CONTROL MEASURES WHEN THE SITE IS STABILISED. I.E. >70% GROUND COVER
 - VIII. THE CONTRACTOR SHALL PREPARE A SUPPLEMENTARY EROSION AND SEDIMENT CONTROL PLAN TO SUIT HIS/HER CONSTRUCTION METHODOLOGY. AND SUBMIT THIS PLAN FOR APPROVAL TO THE SUPERINTENDENT. IT SHOULD BE NOTED THAT ANY SIGNIFICANT VARIATION TO THIS PLAN MAY REQUIRE RESUBMISSION TO COUNCIL FOR APPROVAL. THE CLIENT SHALL NOT BE RESPONSIBLE FOR ANY SUCH ASSOCIATED DELAY.
- ALL ESC DEVICES ARE TO BE INSPECTED WEEKLY, PRIOR TO EXPECTED AND AFTER RAINFALL ANY DAMAGE IS TO BE REPAIRED AS REQUIRED TO MAINTAIN THEIR EFFICACY.
- ALL TEMPORARY EROSION AND SEDIMENT CONTROL (ESC) MEASURE TO BE MAINTAINED AND FULLY OPERATIONAL DURING THE MAINTENANCE PERIOD AND ARE TO BE REMOVED AFTER THE SATISFACTORY COMPLETION OF AN OFF-MAINTENANCE INSPECTION BY COUNCIL AND PRIOR TO FORMAL ACCEPTANCE "OFF MAINTENANCE" BY COUNCIL
- PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR IS TO PROVIDE A DETAILED PROGRAM TO THE SUPERINTENDENT SHOWING THE TIMING FOR ALL WORKS ASSOCIATED WITH THE PROJECT, NOMINATING, IN PARTICULAR, THE PROGRAM FOR INSTALLATION OF SOIL AND EROSION CONTROL SYSTEMS.
- EARTHWORKS SHALL BE CARRIED OUT IN SUCH A MANNER THAT THE SITE IS MAINTAINED IN A WELL DRAINED CONDITION, AREAS OF LOOSE SOIL ARE MINIMISED AND CONCENTRATIONS OF STORMWATER ARE MINIMISED. BULK EARTHWORKS WILL BE CARRIED OUT OVER THE ENTIRE SITE IN ONE STAGE.
- A SHAKE DOWN AS DETAILED ON THE PLAN COMPRISING FREE DRAINAGE GRAVEL SHALL BE LOCATED ADJACENT TO THE POINT OF ACCESS WHERE VEHICLES CAN BE WASHED DOWN PRIOR TO EXIT TO THE STREET SYSTEM IF REQUIRED. THE WASH DOWN AREA SHALL BE
- FOR DETAILS OF ENTRY/EXIT SEDIMENT PAD REFER TO BEST PRACTICE EROSION & SEDIMENT CONTROL BOOK 1, PAGE 2.48, FIGURE 2.6.
- SUPPLEMENTARY EROSION AND SEDIMENT CONTROL DEVICES MAY BE REQUIRED AT THE DISCRETION OF THE SUPERINTENDENT.
- SEDIMENTATION FENCES TO BE PLACED AS SHOWN. FOR DETAILS OF SEDIMENT FENCE REFER BEST PRACTICE EROSION & SEDIMENT CONTROL BOOK 1, PAGE 2.50, FIGURE 2.8.
- WHERE SEDIMENT FENCES ARE SHOWN TO BE CONSTRUCTED IN AREAS OF SIGNIFICANT EARTHWORKS, ERECTION OF THE FENCE MAY BE DEFERRED UNTIL COMPLETION OF THE BULK EARTHWORKS, SUBJECT TO ABSENCE OF RAIN.

ENSURE COMPLIANCE WITH THE REQUIREMENTS OF AS4970 – TREES ON CONSTRUCTION SITES. THIS MAY REQUIRE CONSULTATION AND GUIDANCE FROM A CLASS V CERTIFIED ARBORIST AS TREES OUTSIDE THE IMMEDIATE WORK AREA MAY BE AFFECTED

. hereby certify that the As Constructed information shown on this plan is a true

EROSION AND SEDIMENT CONTROL NOTES

- NO DISTURBED AREA IS TO REMAIN DENUDED LONGER THAN 60 DAYS. ALL EROSION AND SILTATION CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN CLEARING AND GRUBBING OR ANY OTHER EARTHWORKS OR TRENCHING.
- ALL STORMWATER, SEWER LINE AND SERVICES TRENCHES NOT IN STREETS ARE TO BE MULCHED AND SEEDED WITHIN 15 DAYS AFTER BACKFILL, NO MORE THAN 150 METRES ARE TO BE OPEN AT ANY ONE TIME.
- ALL TEMPORARY EARTH BANKS, DIVERSIONS AND SEDIMENT DAM EMBANKMENTS ARE TO BE MACHINE-COMPACTED, SEEDED AND MULCHED FOR TEMPORARY VEGETATIVE COVER WITHIN 10 DAYS AFTER GRADING. STRAW OR HAY MULCH IS REQUIRED.
- ALL FILL EMBANKMENTS ARE TO BE LEFT WITH A LIP AT THE TOP OF THE SLOPE AT THE FND OF FACH DAYS OPERATION.
- ALL CUT AND FILL BATTERS ARE TO BE SEEDED AND MULCHED WITHIN 10 DAYS OF COMPLETION OF GRADING.
- ADDITIONAL SILT AND EROSION CONTROLS MAY BE REQUIRED AS ORDERED ON SITE BY THE SUPERVISING ENGINEER.
- ALL CONTROLS ARE TO BE INSPECTED AFTER EACH STORM EVENT AND MAINTAINED AS REQUIRED. CONTROLS ARE TO BE MAINTAINED UNTIL THE DISTURBED AREAS ARE PERMANENTLY STABILIZED OR UNTIL NO LONGER REQUIRED.

PHASE 1 - CLEARING AND BULK EARTHWORKS

CONSTRUCT AND MAINTAIN SILT FENCES, STRAW BALE TRAPS, ALLOTMENT DRAINAGE BANKS, CATCH DRAINS AND HYDROMULCHING WHICH CONTROL SEDIMENT AND EROSION DURING CLEARING AND BUILK FARTHWORKS

PHASE 2 - TRENCH EXCAVATION

CONSTRUCT AND MAINTAIN SILT FENCES, STRAW BALE TRAPS, ALLOTMENT DRAINAGE BANKS AND CATCH DRAINS WHICH CONTROL SEDIMENTATION AND EROSION DURING TRENCHING WORK.

PHASE 3 - PAVEMENT CONSTRUCTION

CONSTRUCT AND MAINTAIN SILT FENCES, STRAW BALE TRAPS, ALLOTMENT DRAINAGE BANKS, GULLY INLET PROTECTION, AND PIPE INLET/OUTLET PROTECTION WHICH CONTROL SEDIMENTATION AND EROSION DURING PAVEMENT CONSTRUCTION. SAND BAGGING TO BE PLACED ACROSS PAVEMENT TO CONTROL RUNOFF IN PAVEMENT BOXING AS DIRECTED ON SITE.

PHASE 4 - MAINTENANCE PERIOD

CONSTRUCT AND MAINTAIN CONTROLS AND VEGETATIVE TREATMENTS WHICH CONTROL SEDIMENTATION AND EROSION PRIOR TO THE ESTABLISHMENT OF GRASS COVER. PROVIDE 600mm WIDE GRASS FILTER STRIPS BEHIND KERB AND CHANNEL

NOTE: TURF TREATMENT IN CERTAIN AREAS BY LANDSCAPER. REFER TO LANDSCAPE DRAWING.

ALL VEHICLES EXITING FROM THE SITE ARE TO BE CLEANED AND TREATED TO PREVENT MATERIAL BEING TRACKED OR DEPOSITED ONTO PUBLIC ROADS.

IF MATERIAL IS ACCIDENTLY DEPOSITED ONTO PUBLIC ROADS IT SHALL BE REMOVED WITHOUT DELAY. IF THE SHAKEDOWN DEVICE PROVES TO BE INEFFECTIVE THE CONTRACTOR IS TO USE OTHERS MEANS TO PREVENT MATERIAL BEING DEPOSITED ONTO PUBLIC ROADS.

- STRIP AND STOCKPILE AVAILABLE TOPSOIL (ASSUMED AVERAGE DEPTH 150mm) FROM ALL DISTURBED AREAS PRIOR TO BULK EARTHWORKS. GRADE EVENLY BETWEEN ALLOTMENT FINISHED SURFACE LEVELS AND ENSURE LOTS ARE FREE DRAINING.
- MINIMUM SLOPE ACROSS ALLOTMENTS TO BE 1%.
- ALL FOOTPATHS, BATTERS, AND EARTHWORKS AFFECTED ALLOTMENTS ARE TO BE TOPSOILED TO A MINIMUM DEPTH OF 150mm (LIGHTLY COMPACTED) AND TURFED WHERE

- SEDIMENT FENCES

 1. SEDIMENT FENCES TO BE PLACED AS SHOWN. SEDIMENT FENCED TO BE REPAIRED AND EXCESSIVE SEDIMENT DEPOSITS SHALL BE REMOVED ONCE CAPACITY FALLS BELOW 75%.
- FOR DETAILS OF SEDIMENT FENCE REFER BEST PRACTICE EROSION & SEDIMENT CONTROL BOOK 1. PAGE 2.50. FIGURE 2.8.
- SEDIMENT FENCES TO BE REPAIRED AS REQUIRED AND EXCESSIVE SEDIMENT DEPOSITS SHOULD BE REMOVED.
- INSTALL KERB INLETS WITH GRAVEL RANGING FROM 50mm TO 75mm IN SIZE SHALL BE INSTALLED AT ALL COMPLETED INLETS. REFER IPWEAQ STANDARD DRAWING D-0041. THESE SHALL BE MAINTAINED IN A CLEAN CONDITION. IN THE EVENT OF HEAVY RAIN THEY SHALL BE REMOVED TO MINIMISE THE POTENTIAL FOR FLOODING.
- CHECKS OF SILT CONTROL DEVICES ARE TO BE MADE WEEKLY, OR AFTER ANY SIGNIFICANT STORM EVENT TO ENSURE INTEGRITY AND PERFORMANCE.

TURFING

- PROVIDE TURFING TO ENTIRE WIDTH OF ALL SWALES, FOOTPATHS AND 1 IN 4 CUT AND FILL
- FOOTPATH BATTERS ARE TO BE STABILISED WITH TOPSOIL (AND TURFED) AS SOON AS PRACTICAL AFTER THE BATTERS HAVE BEEN COMPLETED.

DURING CONSTRUCTION SEQUENCE:

- TOPSOIL STOCKPILES SHALL BE LESS THAN 1m DEEP AND UNCOMPACTED. A
 SEDIMENTATION FENCE SHALL BE CONSTRUCTED ON THE D/S SIDE, OR THE STOCKPILE STABILISED WITH VEGETATION, MULCH, OR A SOIL STABILISER.
- SEDIMENTATION FENCES TO BE PLACED AS SHOWN. REGULARLY INSPECT BANKS AND REPAIR ANY SLUMPS, WHEEL TRACK DAMAGE OR LOSS
- OF FREEBOARD.
- REMOVE SEDIMENT TO AVOID PONDING FROM CATCH DRAINS.
- REMOVE EXCESSIVE SEDIMENT FROM UPSTREAM OF CHECK DAM.
- ROAD RESERVE TO BE USED AS HAUL ROAD.
- A CATCH DRAIN OR DIVERSION BANK IS TO BE PROVIDED ON THE TOP SIDE OF ALL CUTS, WITH DISCHARGE EITHER TO UNDISTURBED GRASS LANDS OR TO THE CROSS ROAD DRAINAGE.
- SUPPLEMENTARY EROSION AND SEDIMENT CONTROL DEVISED MAY BE REQUIRED AT THE DISCRETION OF THE ENGINEER.
- WATER QUALITY SAMPLES MUST BE TAKEN AND ANALYSED PRIOR TO THE RELEASE OF ANY WATER FROM THE SEDIMENT POND. WATER QUALITY MUST SATISFY THE FOLLOWING CRITERIA: TSS<50MG/L PH BETWEEN 6.5 AND 8.5.
- ALL WATER QUALITY DATA INCLUDING DATES OF RAINFALL, TESTING AND WATER RELEASE MUST BE MAINTAINED IN AN ON-SITE REGISTER. THIS REGISTER IS TO BE MAINTAINED FOR THE DURATION OF THE APPROVED WORKS AND BE AVAILABLE ON SITE FOR INSPECTION BY COUNCIL OFFICERS ON REQUEST.
- EXPOSED AREAS ON LOTS ARE TO BE SEEDED AND MULCHED (E.G. HYDROMULCHED). MULCH SHALL BE APPLIED AT A MINIMIUM RATE OF 2.5T/HA. ALTERNATIVELY THEY SHALL BE DRILL-SEEDED AND IRRIGATED SO AS TO ENSURE >70% GROUND COVER WITHIN 14 DAYS FROM NOVEMBER TO APRIL, OR 30 DAYS FROM MAY TO OCTOBER.

FOLLOWING CONSTRUCTION:

- SEDIMENTATION FENCES TO BE MAINTAINED UNTIL TURFING IS COMPLETED.
- SEDIMENT BASINS TO BE CHECKED AFTER EVERY SIGNIFICANT STORM AND DESILTED ONCE THE SETTLEMENT LIMIT HAS BEEN REACHED.

STABILISATION:

- THE AMOUNT OF AREA EXPOSED AT ANY ONE TIME TO BE MINIMISED BY STAGING THE WORKS WHEREVER POSSIBLE AND AIMING TO ACHIEVE FINISHED LEVEL IN EACH AREA AS QUICKLY AS POSSIBLE BEFORE OPENING NEW AREAS.
- TOPSOIL TO BE STRIPPED AND STOCKPILED SEPARATELY TO SUB-SOILS.
- STOCKPILES TO BE PROVIDED WITH SURFACE COVER USING A CHEMICAL SURFACE STABILISER SUCH AS VITAL CHEMICALS VITAL-BON MATT STONEWALL. IF WORKS ARE DELAYED OR PUT ON HOLD THEN TEMPORARY EROSION CONTROL COVERING
- TO BE PROVIDED USING VITAL CHEMICALS VITAL-BON MATT P47-VR1 OR EQUIVALENT.
- ONCE AREAS REACH FINISHED LEVEL:
 - TOPSOIL TO BE SPREAD TO CAP/BURY THE DISPERSIVE SUBSOILS.
 - TOPSOIL TO BE DRILL-SEEDED WITH A MIXTURE OF ANNUAL AND PERENIAL GRASS SPECIES (REFER TABLE) AND FERTILISER WITH CROP-KING 88 (0.3+/Ha).
 - TEMPORARY SOIL COVER TO BE APPLIED CONSISTING OF VITAL CHEMICALS VITAL-BON MATT P47-VR1 OR EQUIVALENT.
 - WATERING UNDERTAKEN AS NECESSARY UNTIL STABLE GRASS SURFACE COVER IS ESTABLISHED.

SEED MIXES								
	SUMMER BLEND (APPLICATIONS NOVEMBER – DECEMBER)	MID SEASON BLEND (APPLICATIONS MARCH/APRIL & SEPTEMBER/OCTOBER)	WINTER BLEND (APPLICATIONS MAY AUGUST)					
UNHULLED GREEN COUCH (CYNODON DACTYLON) OR BLUE COACH (DIGITARIA DIDACYLA)	25%	25%	25%					
HULLED GREEN COUCH (CYNODON DACTYLON) OR BLUE COACH (DIGITARIA DIDACYLA)	25%	25%	25%					
JAPANESE MILLET	30%	15%	N/A					
RYE GRASS	N/A	15%	30%					
CARPET GRASS (AXONOPUS AFFINIS)	20%	20%	20%					

STAGE 18B

DO NOT SCALE THIS DRAWING IF IN DOUBT - ASK!

REVISIONS Description Date S CONSTRUCTED FINA

SPRING MOUNTAIN ACREAGE ESTATE STAGE 18B

OW/106/2020



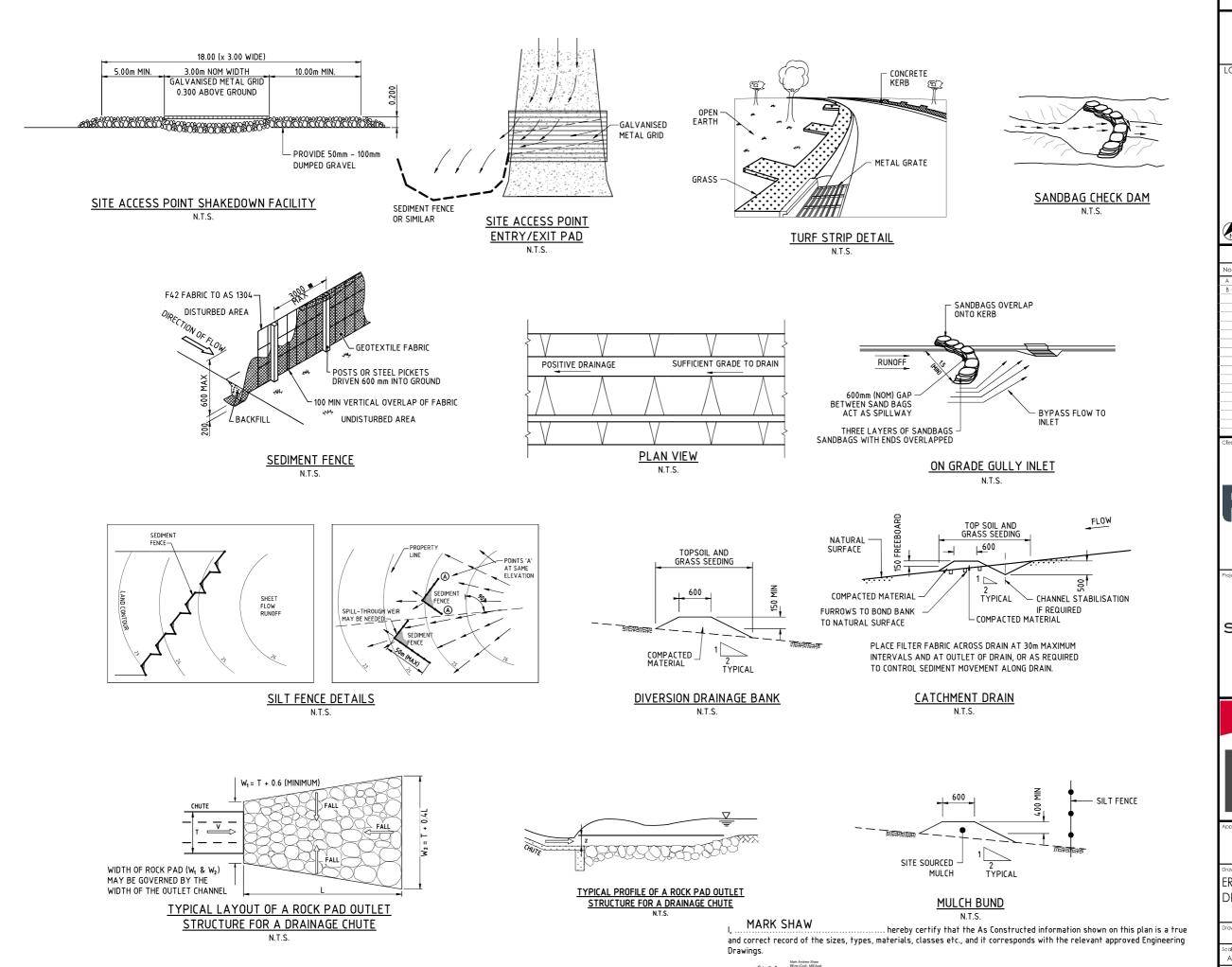
EROSION AND SEDIMENT CONTROL NOTES

LMS GG JUN 20 as shown 25 of 33 18-201-25

and correct record of the sizes, types, materials, classes etc., and it corresponds with the relevant approved Engineering

MARK SHAW

RPEQ No. 17544 Dated 06.05.2021



LOCALITY PLAN

STAGE 18B

REVISIONS

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SPRING MOUNTAIN
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STAGE 18B

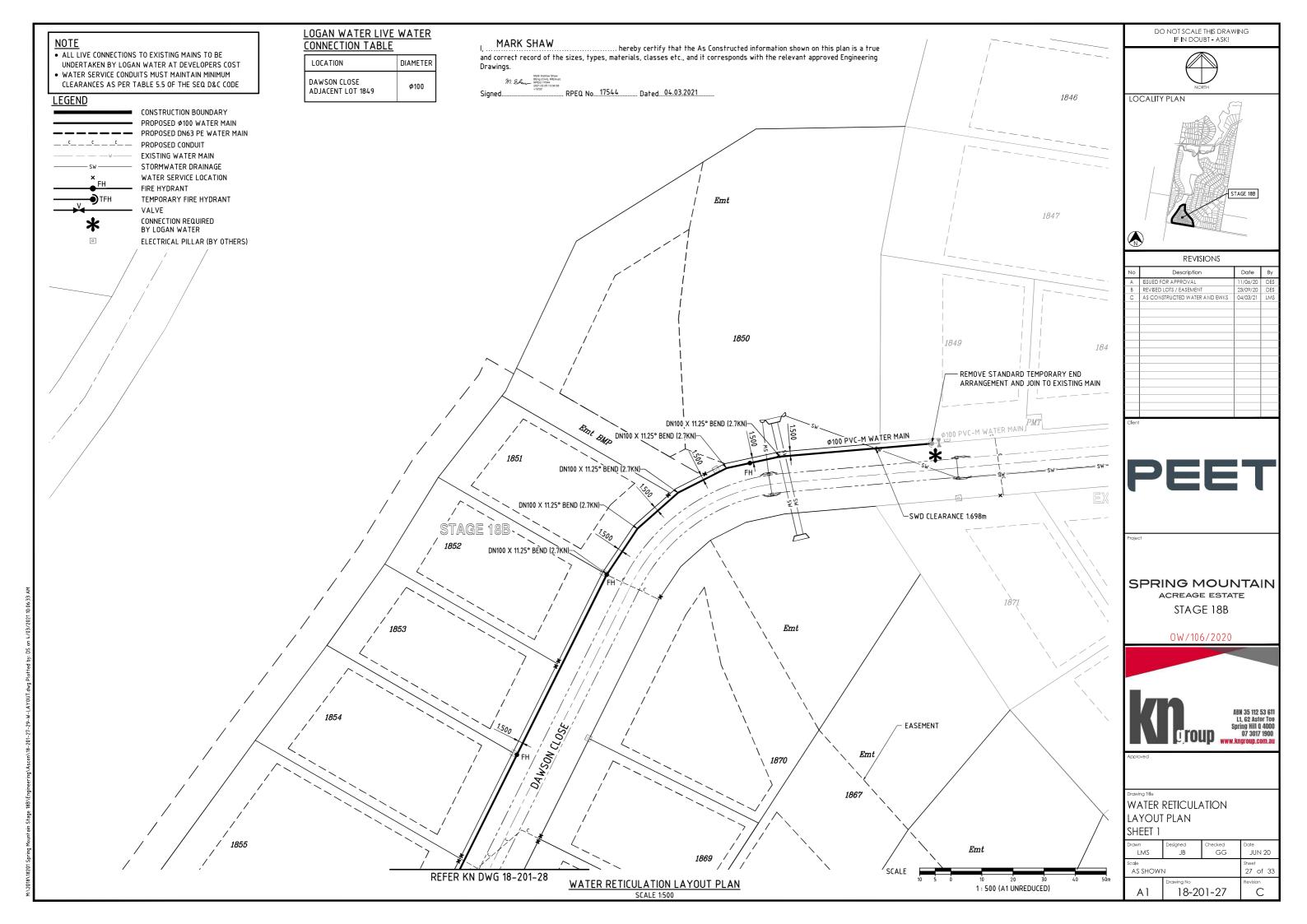
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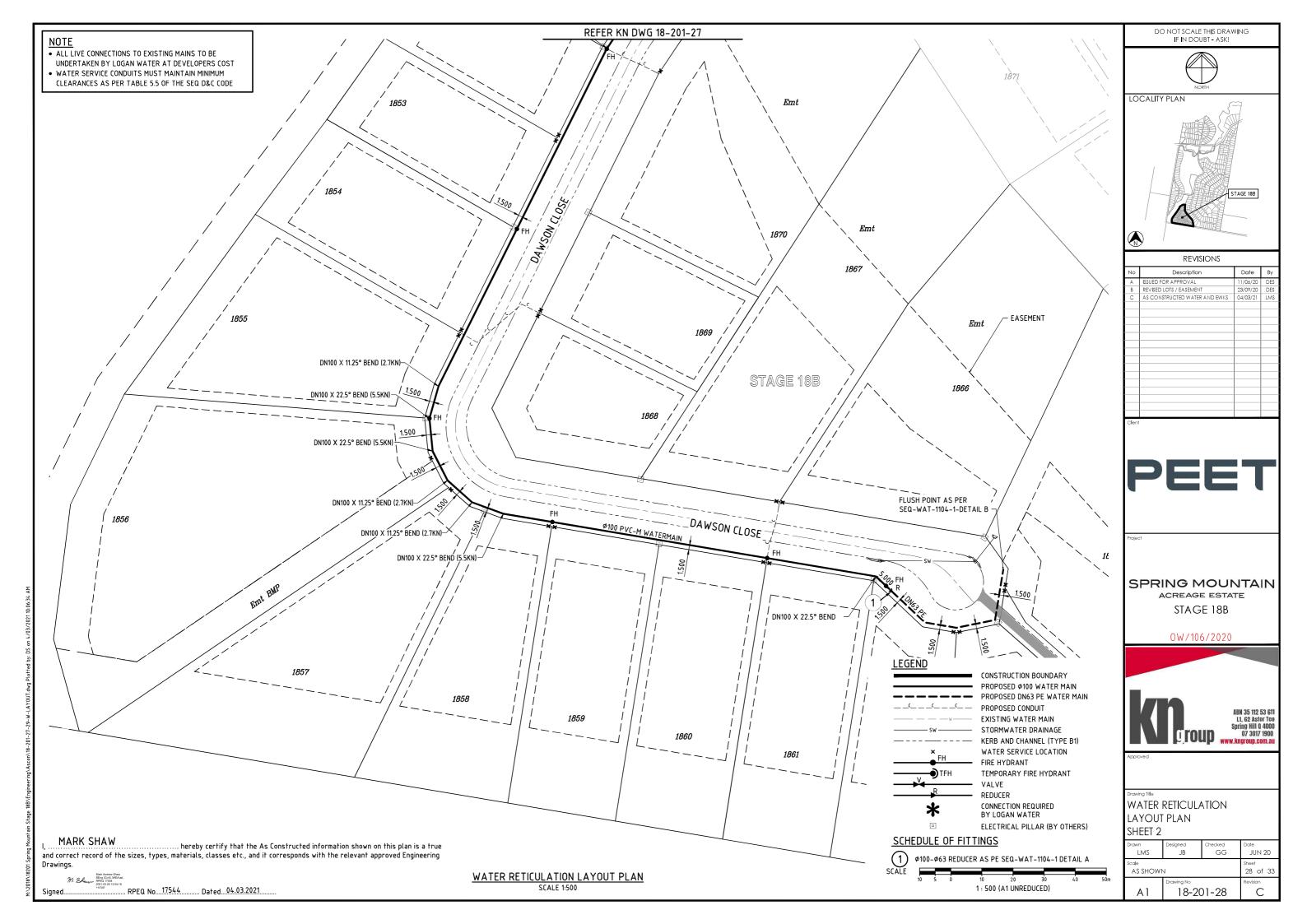


RPEQ No. 17544 Dated 06.05.2021

Signed.

EROSION AND SEDIMENT CONTROL DETAILS

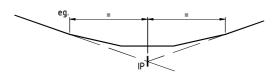




UNLESS SPECIFIED OTHERWISE ALL MATERIALS AND WORK SHALL COMPLY WITH THE RELEVANT AUSTRALIAN STANDARDS.

- ADOPT LIP OF KERB OR SHOULDER OF ROAD AS PERMANENT LEVEL.
- CLEARANCE OVER MAINS FROM PERMANENT LEVEL TO BE AS SHOWN IN STANDARD DRAWING No. SEQ-WAT-1200-2.
- MINIMUM EMBEDMENT SHALL BE TYPE C IN ACCORDANCE WITH STANDARD DRAWING No. SEQ-WAT-1201-1.
- THRUST BLOCKS SHALL BE IN ACCORDANCE WITH AND PRESSURE TESTED TO 1200kPa AS PER STANDARD DRAWING No. SEQ-WAT-1205-1 AND SEQ-WAT-1206-1
- CONDUITS TO BE INSTALLED IN ACCORDANCE WITH THE STANDARD DRAWING No. SEQ-WAT-1110-1.
- A WATER METER IS TO BE INSTALLED AT THE RESIDENT'S COST, BY LOGAN
- ALL MATERIALS USED IN THE WORKS SHALL BE AS FOLLOWS:
 - ALL DUCTILE IRON FITTINGS SHALL BE MANUFACTURED TO AS/NZS 2280 WITH SOCKET ENDS (UNLESS NOTED) AND DESIGNED FOR USE WITH PVC OR DI PIPES AS APPLICABLE. ALL DI PIPES SHALL BE CEMENT LINED TO AS/NZS 2280.
 - DICL USED IN ROAD CROSSINGS WILL BE PN35 AS PER WATER AUTHORITY
 - PRESSURE PIPES USED FOR WATER SUPPLY SHALL BE RRJ PIPES AND SHALL BE EITHER PVC CLASS PN16 (UNLESS NOTED OTHERWISE) MINIMUM AND MANUFACTURED TO (UPVC AS/NZS 1477), (PVC-M AS/NZS 4765) (PVC-0 AS/NZS 4441) OR DICL PN 20, 35 OR FLANGED CLASS TO AS/NZS 2280).
 - DUCTILE IRON SLUICE AND SCOUR VALVES SHALL BE PN16 RESILIENT SEATED WITH DOUBLE "O" RING STEM SEALS MANUFACTURED TO AS 2638.
 - ALL VALVES, FITTINGS AND PIPE FITTINGS TO BE COATED INTERNALLY AND EXTERNALLY WITH FACTORY APPLIED THERMAL POLYMERIC CORROSION PROTECTION TO AS 4158.
 - ALL NUTS, BOLTS AND WASHERS, SHALL BE STAINLESS STEEL GRADE 316 CLASS 50 WITH AN ANTI-SEIZE APPLIED DURING ASSEMBLY.
 - ALL DUCTILE IRON FLANGES ARE TO COMPLY WITH AS/NZS 2280 AND SHALL BE RAISED FACE TO AS 4087

- ALL CONCRETE FOOTPATHS TO BE CLEAR OF WATER MAINS (WHERE APPLICABLE).
- MARKERS SHALL BE INSTALLED FOR ALL SERVICE CROSSINGS, HYDRANTS AND VALVES IN ACCORDANCE WITH STANDARD DRAWING Nos. SEQ-WAT-1110-1, AND SEQ-WAT-1110-2
- THE CONSTRUCTION OF THE WATER RETICULATION WORK SHOWN ON THIS DRAWING MUST BE SUPERVISED BY AN ENGINEER WHO HAS R.P.E.Q. REGISTRATION. WORKS NOT COMPLYING WITH THIS REQUIREMENT WILL NOT BE PERMITTED TO CONNECT TO THE RETICULATION SYSTEM.
- WATER MAIN SHALL BE LAID AT 1.425m ALIGNMENT FROM PROPERTY BOUNDARY UNLESS NOTES OTHERWISE.
- WHERE PERMANENT HYDRANTS ARE NOT INSTALLED AT END OF MAINS OF EACH STAGE, A TEMPORARY HYDRANT WILL BE INSTALLED INSTEAD.
- NO WORK SHALL BE BACKFILLED UNTIL PERMISSION IS GRANTED BY THE SUPERINTENDENT OR LOGAN WATER.
- NOT ALL SERVICES HAVE NECESSARILY BEEN SHOWN. THE LOCATION OF SERVICES ON THESE PLANS ARE APPROXIMATE ONLY. NO RESPONSIBILITY IS TAKEN FOR THE ACCURACY OR COMPLETENESS OF THIS INFORMATION NO WORK IS TO BE UNDERTAKEN WITHOUT CONSULTING THE RELEVANT SERVICE AUTHORITY PRIOR TO COMMENCEMENT OF THE WORK. DEPTH OF SERVICES AT POSSIBLE CONFLICT POINTS ARE TO BE CONFIRMED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. ABOVE GROUND SERVICES AS SHOWN ON THE DRGS HAVE BEEN LOCATED BY FIELD SURVEY. ALL UNDERGROUND SERVICES HAVE BEEN PLOTTED FROM THE RELEVANT AUTHORITY'S RECORDS.
- ALL EXISTING FEATURES (eg. DRIVEWAYS, GARDENS, PATHS etc.) ARE TO BE REINSTATED WHERE DISTURBED BY THE WORKS. ALLOW FOR SUPPORT OF POWER POLES/STAYS, FENCES etc. ADJACENT TO TRENCHES.
- WHERE BEND FITTINGS ARE NOT SHOWN, MAKE CHANGES IN DIRECTION USING PIPE JOINT DEFLECTIONS. MAKE EQUAL NUMBER AND SIZE OF PIPE DEFLECTIONS EACH SIDE OF CHAINAGE SHOWN (MAX. DEFLECTION 3° PER JOINT). IL SHOWN ON LONG SECTIONS IS AT INTERSECTIONS POINT (IP). JOINT DEFLECTIONS MAY ALSO BE REQUIRED AT FITTINGS TO MEET ALIGNMENT AND LEVELS AS SPECIFIED.



VEGETATION PROTECTION (WHERE APPLICABLE)

- TREES LOCATED ALONG THE FOOTPATH SHALL BE, TRANSPLANTED PRIOR TO CONSTRUCTION, OR REPLACED IF DESTROYED.
- WHEN WORKING WITHIN 4m OF TREES, RUBBER OR HARDWOOD GIRDLES SHALL BE CONSTRUCTED WITH 1.8m BATTENS CLOSELY SPACED AND ARRANGED VERTICALLY FROM GROUND LEVEL. GIRDLES SHALL BE STRAPPED TO TREES PRIOR TO CONSTRUCTION AND REMAIN UNTIL COMPLETION.
- TREE ROOTS SHALL BE TUNNELLED UNDER, RATHER THAN SEVERED. IF ROOTS ARE SEVERED THE DAMAGED AREA SHALL BE TREATED WITH A SUITABLE FUNGICIDE. CONTACT RELEVANT COUNCIL ARBORIST FOR FURTHER ADVICE.
- ANY TREE LOPPING REQUIRED SHOULD BE UNDERTAKEN BY AN APPROVED ARBORIST

SOIL (WHERE APPLICABLE)

- TOPSOIL AND SUBSOIL SHOULD BE STOCKPILED SEPARATELY.
- CARE SHOULD BE TAKEN TO PREVENT SEDIMENT FROM ENTERING THE STORMWATER SYSTEM. THIS MAY INVOLVE PLACING APPROPRIATE SEDIMENT CONTROL AROUND STOCKPILES.

CREEK CROSSINGS (WHERE APPLICABLE)

- SILTATION CONTROL MEASURES SHALL BE PLACED DOWNSTREAM OF ANY EXCAVATION WORK.
- APPROPRIATE SEDIMENT CONTROLS SHALL BE USED TO PREVENT SEDIMENT FROM ENTERING THE CREEK
- NO SOIL SHOULD BE STOCKPILED WITHIN 5m OF CREEK.

REHABILITATION (WHERE APPLICABLE)

- PREDISTURBANCE SOIL PROFILES AND COMPACTION LEVELS SHALL BE REINSTATED.
- PREDISTURBANCE VEGETATION PATTERNS SHALL BE RESTORED.

DO NOT SCALE THIS DRAWING IF IN DOUBT - ASK





REVISIONS

No	Description	Date	В
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SPRING MOUNTAIN ACREAGE ESTATE STAGE 18B

OW/106/2020



WATER RETICULATION LIVE CONNECTION DETAILS AND NOTES

Drawn LMS	Designed JB	Checked GG	Date JUN 20
Scale 1WOH2 2A	Sheet 29 of 33		
A1	Revision B		

5.0m LOGAN WATER CONNECTION EXISTING \$100 PVC-M PROPOSED Ø100 PVC-M LOGAN WATER TO REMOVE DEC'S AND IOIN TO NEW MAIN WITH GIBAULTS -DAWSON CLOSE-

> LIVE CONNECTION DETAIL SPRING MOUNTAIN DRIVE ADJACENT LOT 1849 SCALE 1:100

MARK SHAW . hereby certify that the As Constructed information shown on this plan is a true and correct record of the sizes, types, materials, classes etc., and it corresponds with the relevant approved Engineering

RPEQ No...17544 Dated 04.03.2021

Signed.

1: 100 (A1 UNREDUCED)

