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1:250

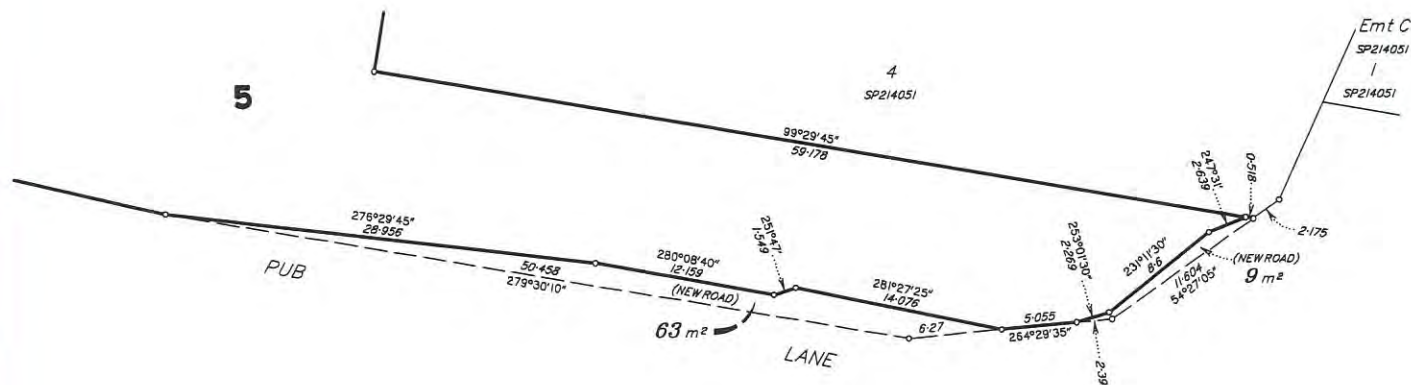


DIAGRAM B
1:250

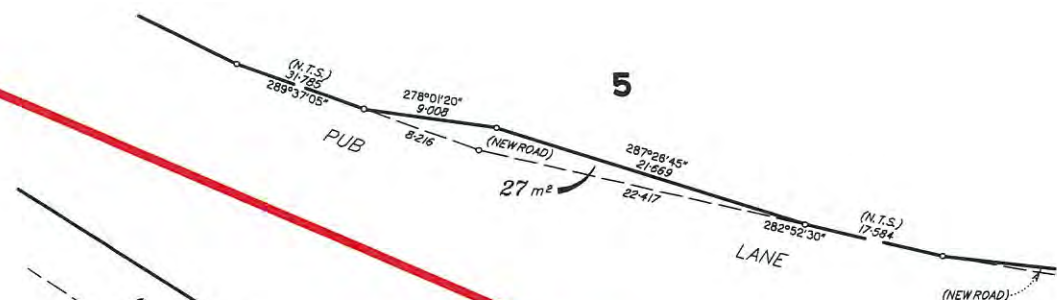
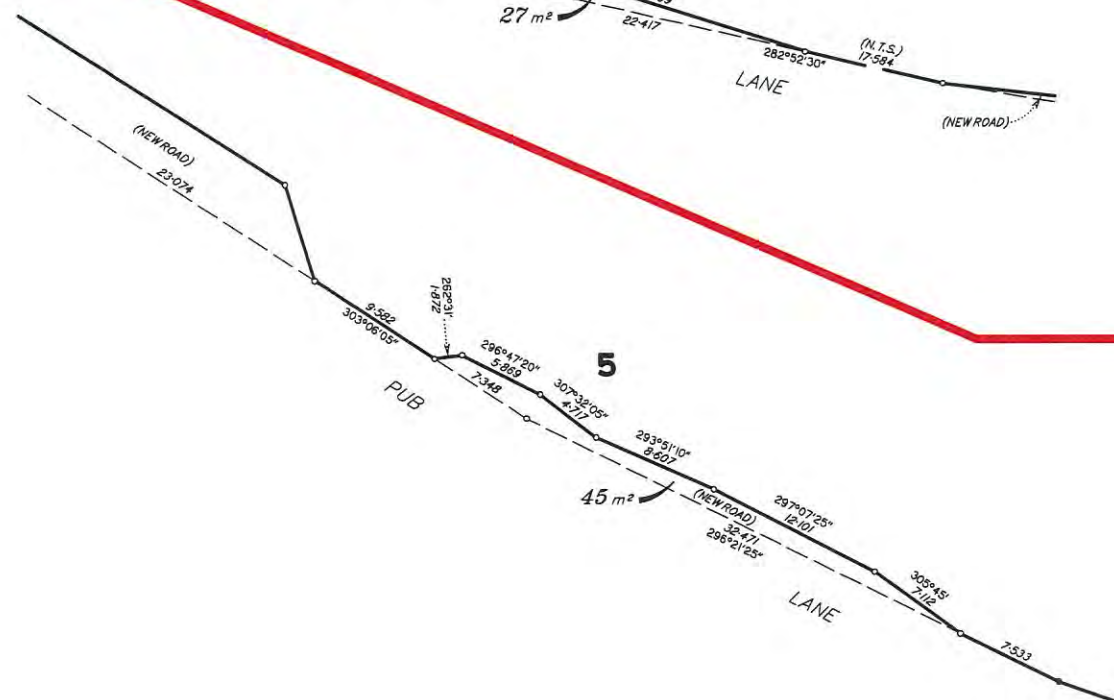


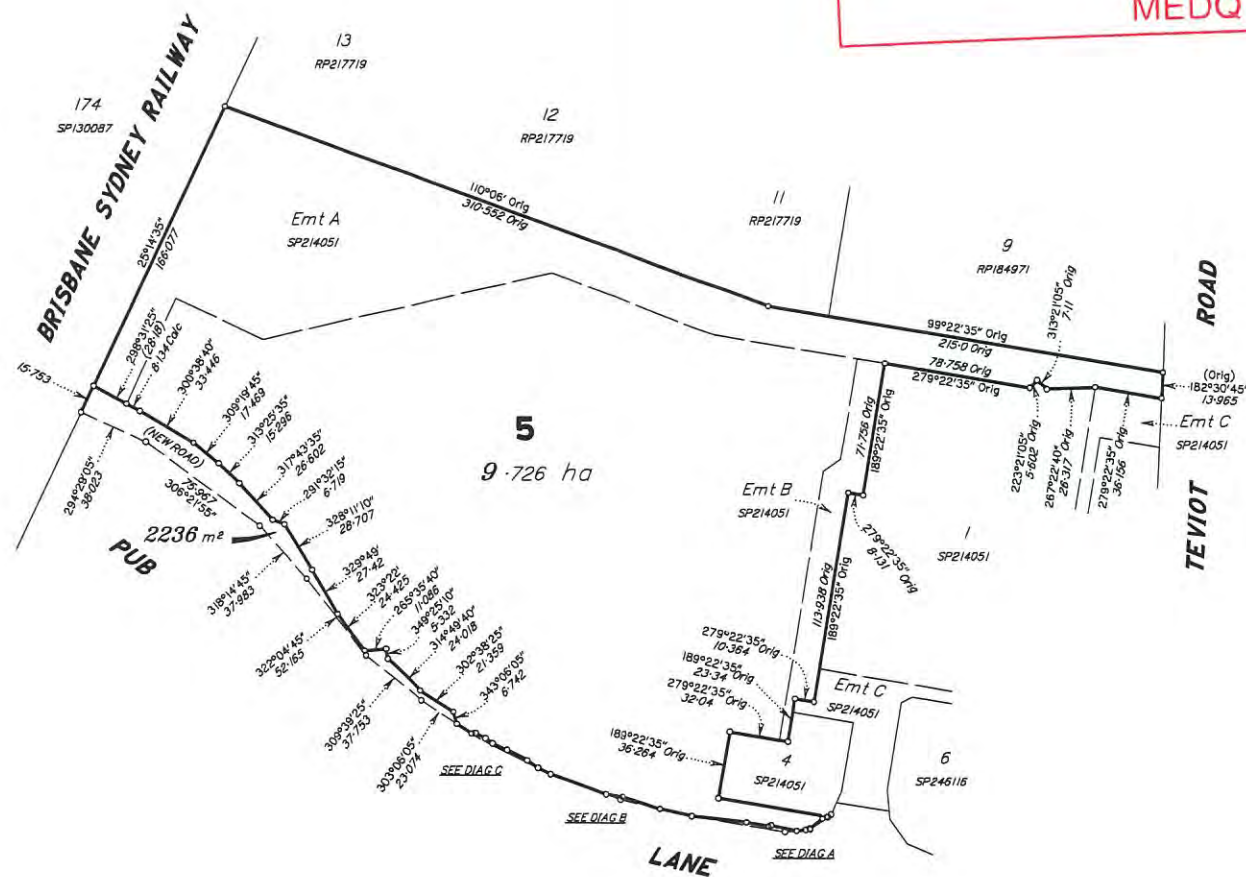
DIAGRAM C
1:250



PLANS AND DOCUMENTS
referred to in the PDA APPROVAL

28 JAN 2015

MEDQ



NOTES

This plan was prepared as a provisional layout to accompany a development application. The information on this plan is not suitable for any other purpose.

Property dimensions, areas, numbers of lots and contours and other physical features shown have been compiled from existing information and may not have been verified by field survey. These may need verification if the development application is approved and development proceeds, and may change when a full survey is undertaken or in order to comply with development approval conditions.

No reliance should be placed on the information on this plan for detailed subdivision design or for any financial dealings involving the land.

The Saunders Havill Group therefore disclaims any liability for any loss or damage whatsoever or howsoever incurred, arising from any party using or relying upon this plan for any purpose other than as a document prepared for the sole purpose of accompanying a development application and which may be subject to alteration beyond the control of the Saunders Havill Group. Unless a development approval states otherwise, this is not an approved plan.

* This note is an integral part of this plan/data. Reproduction of this plan or any part of it without this note being included in full will render the information shown on such reproduction invalid and not suitable for use.

Total Area of New Road
2380 m²

Scale 1:2000 - Lengths are in Metres.

No.	by	Date	Description
A	MD	12/12/14	Original Issue

Surveyed:	
Date:	
Drawn: MD	
Date: 12/12/2014	
Checked: PS	

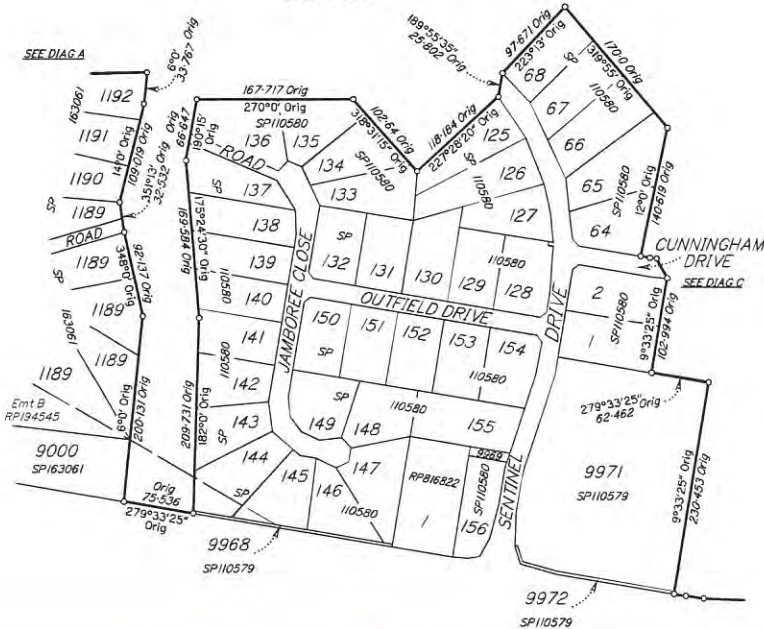
Plan of	PROPOSED NEW ROAD
Project	PUB LANE, GREENBANK
Client	LATERAL PROPERTIES PTY LTD

Lot Description	Lot 5 on SP214051
Locality of Greenbank	Parish of Perry County of Stanley

town planning	
Scale @A1 1:2000 @A3 1:4000	
Dwg No. 7194 S 02 PP A	

9968

DIAGRAM A
1:4000



PLANS AND DOCUMENTS
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28 JAN 2015

MEDQ

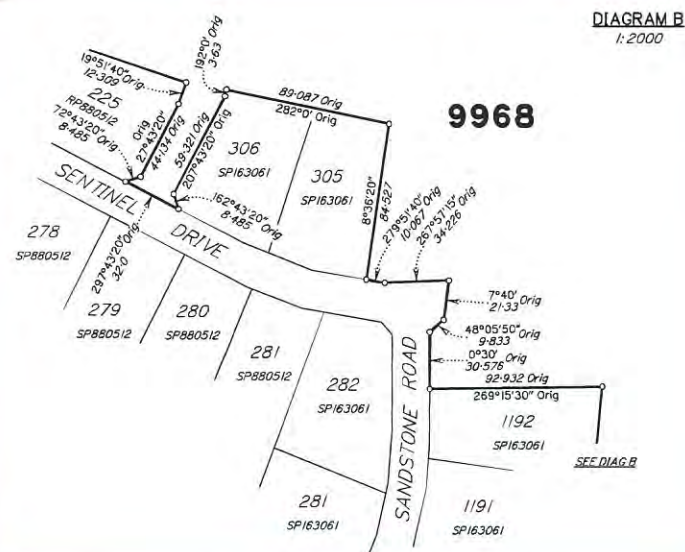


DIAGRAM B
1:2000

9968

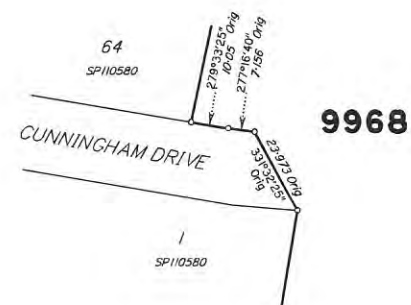


DIAGRAM C
1:1000

9968

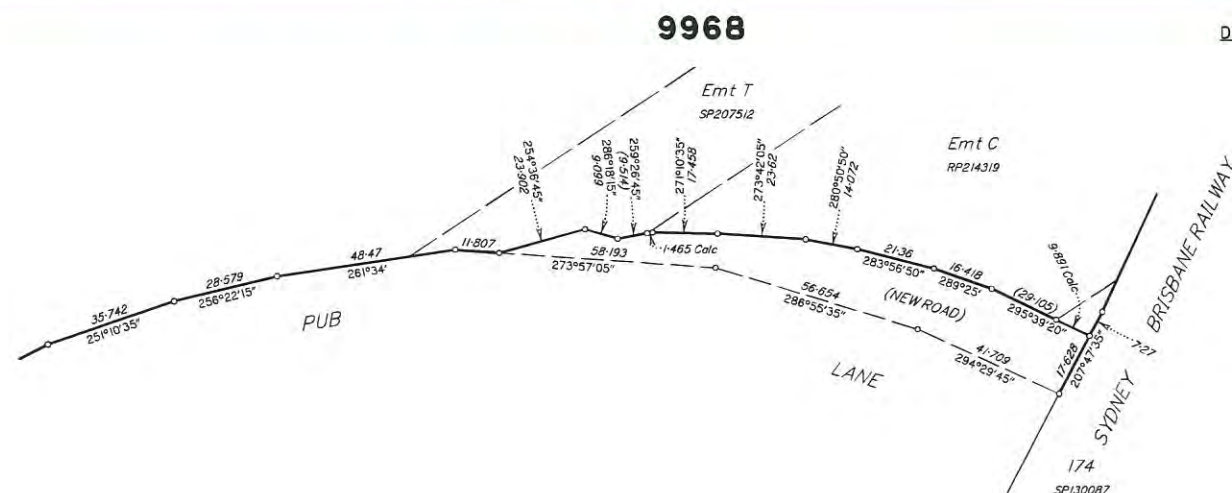


DIAGRAM D
1:1000

9968

NOTES

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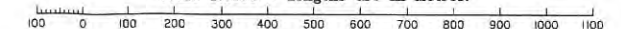
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Area of New Road
1968 m²

Scale 1:8000 - Lengths are in Metres.



Issues	No.	by	Date	Description	Surveyed:
	A	MD	12/12/14	Original Issue	Date:
					Drawn: MD
					Date: 12/12/2014
					Checked: PS

Surveyed:
Date:
Drawn: MD
Date: 12/12/2014
Checked: PS

Plan of

PROPOSED NEW ROAD

Project

PUB LANE, GREENBANK

Client

LATERAL PROPERTIES PTY LTD

Lot Description

Lot 9968 on SP163061

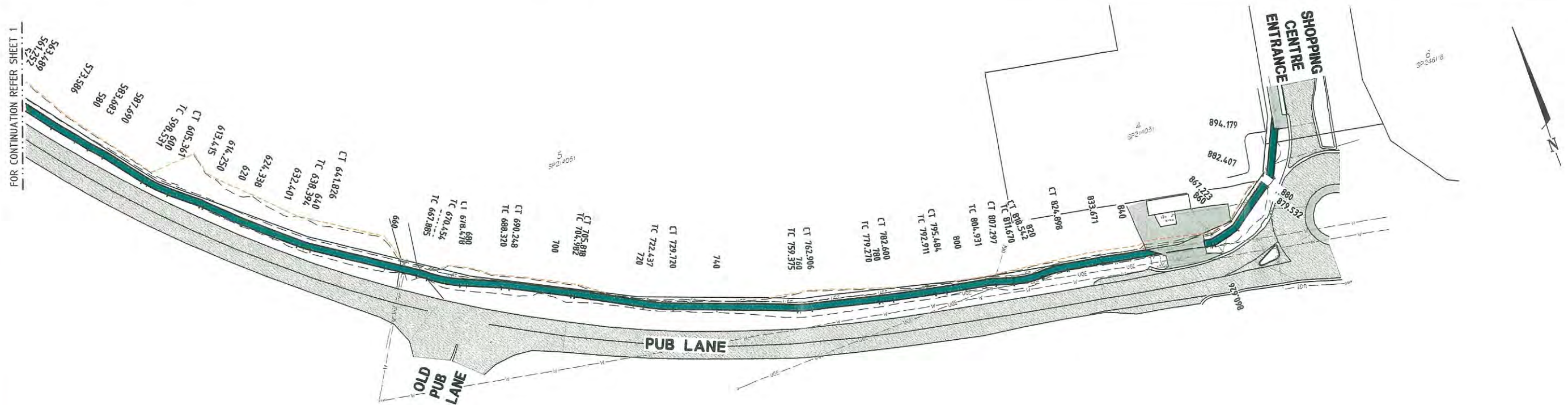
Locality of Greenbank
Parish of Perry
County of Stanley

town planning

Scale @A1 1: 8000

@A3 1: 16000

Dwg No. 7194 S 03 PP A



PLANS AND DOCUMENTS
referred to in the PDA APPROVAL

28 JAN 2015

MEDQ

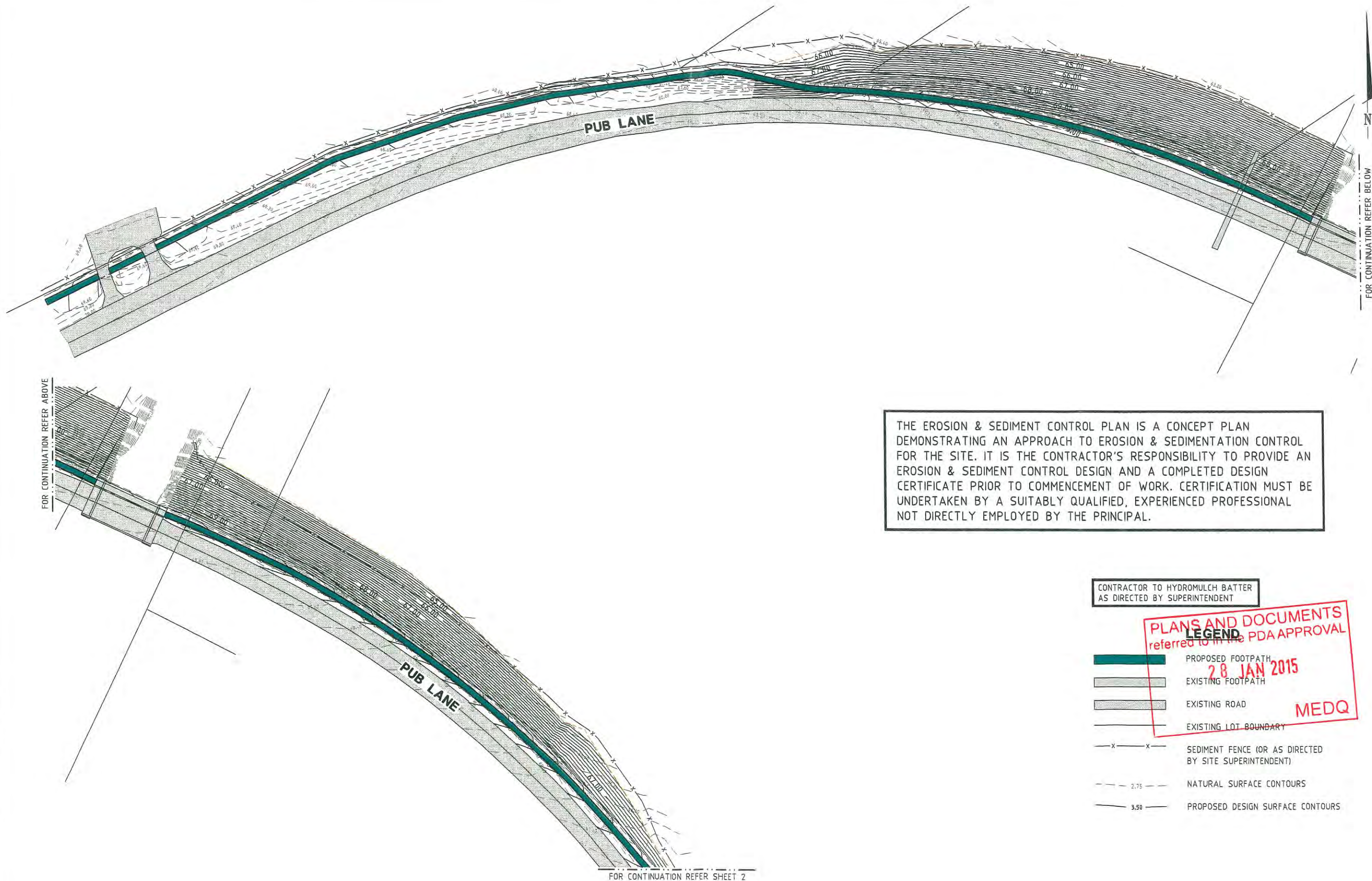
CONTROL PATH- PATH EDGE									
PT	Chainage	Easting	Northing	Level	Bearing	Rad/Spiral	A.Length	D.Angle	
IP1	0	5572.427	5130.549		63°22'13.13"				
TC	88.941	5651.934	5170.415	68.83	63°22'13.13"				
IP2	90.304	5653.154	5171.026	68.81		20	2.726	7°48'29.77"	
CT	91.667	5654.446	5171.467	68.79	71°10'42.90"				
TC	124.796	5685.804	5182.155	68.38	71°10'42.90"				
IP3	125.703	5686.662	5182.447	68.37		20	1.813	5°11'39.85"	
CT	126.609	5687.544	5182.661	68.36	76°22'22.75"				
TC	152.716	5712.916	5188.812	68.24	76°22'22.75"				
IP4	154.008	5714.172	5189.117	68.24		28.5	2.585	5°11'45.32"	
CT	155.3	5715.452	5189.306	68.22	81°34'08.08"				
TC	196.82	5756.523	5195.394	66.67	81°34'08.08"				
IP5	201.941	5761.643	5196.153	66.58		28.5	10.241	20°35'18.22"	
CT	207.061	5766.703	5195.063	66.57	102°09'26.30"				
TC	224.514	5783.765	5191.387	67.65	102°09'26.30"				
IP6	226.536	5785.748	5190.96	67.79		-21.484	4.045	10°47'16.21"	
IP7	228.559	5787.776	5190.911	67.94					
IP8	228.559	5787.776	5190.911	67.94					
IP9	282.073	5841.821	5189.619	69.76		307.61	107.028	19°56'06.69"	
CT	335.587	5892.187	5169.978	70.43	111°18'16.78"				
TC	335.587	5892.187	5169.978	70.43	111°18'16.78"				
IP10	336.429	5892.971	5169.672	70.43		49.008	1.683	1°58'04.58"	
CT	337.27	5893.745	5169.339	70.43	113°16'21.36"				
IP11	339.214	5895.53	5168.571	70.43					
IP12	349.272	5904.724	5164.492	70.39					
TC	365.604	5919.553	5157.65	70.34	114°46'07.97"				
IP13	367.109	5920.921	5157.019	70.34		50	3.011	3°27'02.19"	
CT	368.615	5922.248	5156.307	70.35	118°13'10.17"				
IP14	371.55	5924.834	5154.919	70.36					
IP15	392.676	5944.062	5146.17	70.13					
TC	398.452	5949.45	5144.087	70.09	111°08'12.77"				
IP16	399.986	5950.881	5143.533	70.08		50	3.068	3°30'56.80"	
CT	401.52	5952.276	5142.893	70.07	114°39'09.57"				
TC	428.523	5976.818	5131.63	69.85	114°39'09.57"				
IP17	429.994	5978.155	5131.016	69.83		49.998	2.942	3°22'16.84"	
IP18	431.465	5979.454	5130.325	69.82					
IP19	431.465	5979.454	5130.325	69.82					
IP20	491.049	6032.715	5101.977	68.72		308.647	119.168	22°07'18.74"	
CT	550.633	6071.38	5055.658	67.54	140°08'45.16"				
IP21	561.252	6078.185	5047.507	67.36					
IP22	563.489	6079.588	5045.764	67.33					
IP23	573.586	6085.749	5037.765	67.16					
IP24	583.683	6092.228	5030.021	67.05					
IP25	587.69	6094.87	5027.008	67.03					
IP21	587.69	6094.87	5027.008	67.03					
TC	598.531	6101.533	5018.456	66.984	142°04'43.85"				
IP22	601.946	6103.64	5015.751	66.96					
CT	605.361	6106.279	5013.564	66.929	129°39'25.31"	-31.5	6.829	12°25'18.54"	
IP23	613.415	6112.48	5008.423	66.842					
IP24	614.25	6113.068	5007.831	66.835					
IP25	624.338	6120.416	5000.919	66.776					
IP26	632.401	6126.502	4995.631	66.735					
TC	638.394	6131.116	4991.806	66.704	129°39'26.11"				
IP27	640.11	6132.439	4990.709	66.695		-30	3.433	6°33'22.14"	
CT	641.826	6133.878	4989.771	66.686	123°06'03.97"				
TC	667.885	6155.708	4975.54	66.299	123°06'03.97"				
IP28	669.169	6156.784	4974.838	66.27		29.999	2.569	4°54'22.58"	
CT	670.454	6157.797	4974.047	66.251	128°00'26.55"				
TC	670.454	6157.797	4974.047	66.251	128°00'26.55"				
IP29	674.466	6160.977	4971.561	66.383		-30	8.024	15°19'28.52"	
CT	678.478	6164.701	4970.005	66.391	112°40'58.03"				
TC	688.32	6173.782	4966.21	66.326	112°40'58.03"				
IP30	689.284	6174.672	4965.838	66.32		30	1.928	3°40'56.12"	
CT	690.248	6175.536	4965.409	66.314	116°21'54.15"				
TC	704.982	6188.737	4958.866	66.232	116°21'54.15"				
IP31	705.4	6189.112	4958.681	66.231		30	0.837	1°35'53.45"	
CT	705.818	6189.481	4958.484	66.23	117°57'47.60"				
TC	722.437	6204.16	4950.692	66.18	117°57'47.60"				
IP32	726.079	6207.382	4948.981	66.171		-50	7.283	8°20'43.84"	
CT	729.72	6210.818	4947.756	66.183	109°37'03.76"				
TC	759.375	6238.752	4937.8	66.661	109°37'03.76"				
IP33	761.141	6240.477	4937.207	66.694		-30	3.53	6°44'33.84"	
CT	762.906	6242.14	4936.813	66.728	102°52'29.92"				
TC	779.27	6258.092	4933.167	67.088	102°52'29.92"				
IP34	780.935	6259.715	4932.796	67.126		-100	3.33	1°54'28.50"	
CT	782.6	6261.35	4932.479	67.164	100°58'01.42"				
TC	792.911	6271.473	4930.517	67.398	100°58'01.42"				
IP35	794.197	6272.736	4930.272	67.427		-100	2.572	1°28'25.53"	
CT	795.484	6274.005	4930.06	67.456	99°29'35.89"				
TC	804.931	6283.323	4928.502	67.67	99°29'35.89"				
IP36	806.114	6284.491	4928.307	67.697		20.1	2.366	6°44'43.98"	
CT	807.297	6285.628	4927.975	67.724	106°14'19.87"				
TC	811.67	6289.826	4926.753	67.823	106°14'19.87"				
IP37	815.106	6293.158	4925.782	67.901		-20	6.872	19°41'16.98"	
CT	818.542	6296.622	4925.991	67.979	86°33'02.89"				
TC	818.845	6296.925	4926.009	67.986	86°33'02.89"				
IP38	821.872	6299.957	4926.192	68.059		28.5	6.053	12°10'10.75"	
CT	824.898	6302.96	4925.731	68.135	98°43'13.64"				
IP39	833.671	6311.632	4924.401	68.372					
IP40	860.626	6338.218	4919.957	68.934					
IP41	867.223	6344.591	4921.658	69.037					
IP42	879.532	6354.621	4928.794	69.229					
IP43	882.407	6356.96	4930.466	69.273					
IP44	894.179	6361.825	4941.185		24°24'34.83"				

LEGEND

- PROPOSED FOOTPATH
- EXISTING FOOTPATH
- EXISTING ROAD
- EXISTING LOT BOUNDARY

FILE: N14020-102.dwg DATE: 15-10-2014 TIME: 11:14
Xref's: X-N14020-BASE X-N14020-SURVEY X-N14020-TIT USR: kym kennedy

FIRST ISSUE		CALCS DRAWN		DATE		AMENDMENT DETAILS		DESIGN CHECK		SCALE (METRES)		MICROFILM No.		SURVEYOR: Saunders Havill Group 9 Thompson St, Bowen Hills, QLD, 4006 Ph 1300 123 744		CLIENT LATERAL PROPERTIES PUB LANE FOOTPATH TEVIOT DOWNS ESTATE		BROWN Smart Consulting		CONSULT AUSTRALIA		DRAWING TITLE SURVEY SETOUT DETAIL PLAN SHEET 2 OF 2		DRAWING NUMBER N14020-102		ISSUE A	
A	KK	KK	KK	15.10.14		PATH REALIGNED BETWEEN CH 460 - 740 PER COUNCIL REQUIREMENTS		DRAWN CHECK		1:500 10 5 0 10 20 A1 1:1000		PROJECT No. N14020		APPROVED BRENT THOMAS RPEQ 7862 BRAD THOMPSON RPEQ 7818 SHAWN PILCHER RPEQ 14593		FOR & ON BEHALF OF BROWN CONSULTING (QLD) PTY LTD				Brown Consulting (QLD) Pty Ltd Level 14, 14 Innovation Parkway, Brisbane QLD Australia 4575 Telephone 07 5314 2200 Facsimile 07 5314 5222 Brisbane Canberra Melbourne Sydney Singapore Shanghai Seoul		Quality Endorsed Company ISO 9001 Lic 4584					



THE EROSION & SEDIMENT CONTROL PLAN IS A CONCEPT PLAN DEMONSTRATING AN APPROACH TO EROSION & SEDIMENTATION CONTROL FOR THE SITE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE AN EROSION & SEDIMENT CONTROL DESIGN AND A COMPLETED DESIGN CERTIFICATE PRIOR TO COMMENCEMENT OF WORK. CERTIFICATION MUST BE UNDERTAKEN BY A SUITABLY QUALIFIED, EXPERIENCED PROFESSIONAL NOT DIRECTLY EMPLOYED BY THE PRINCIPAL.

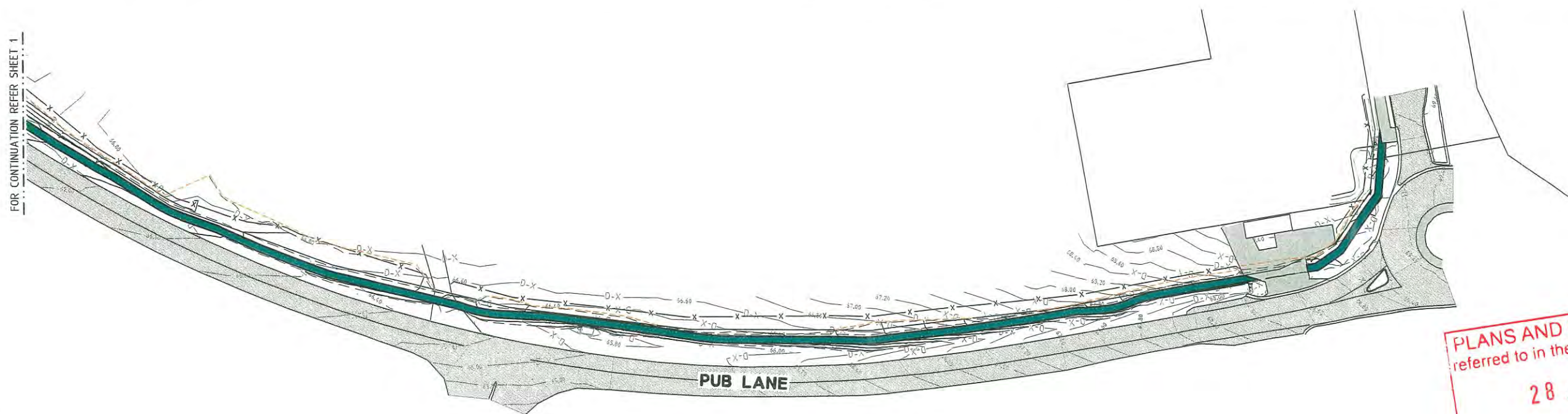
CONTRACTOR TO HYDROMULCH BATTER AS DIRECTED BY SUPERINTENDENT

LEGEND

PLANS AND DOCUMENTS referred to in the PDA APPROVAL 28 JAN 2015 MEDQ

- PROPOSED FOOTPATH
- EXISTING FOOTPATH
- EXISTING ROAD
- EXISTING LOT BOUNDARY
- SEDIMENT FENCE (OR AS DIRECTED BY SITE SUPERINTENDENT)
- 2.75 NATURAL SURFACE CONTOURS
- 3.50 PROPOSED DESIGN SURFACE CONTOURS

FOR CONTINUATION REFER SHEET 1



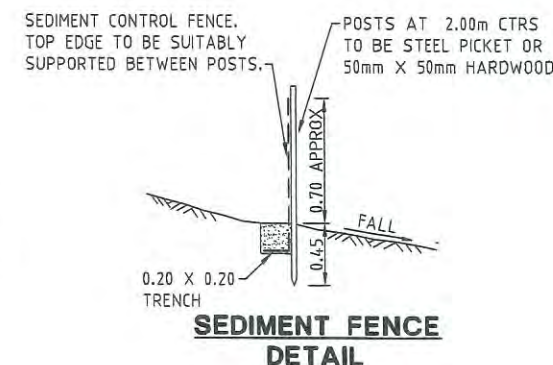
PLANS AND DOCUMENTS
referred to in the PDA APPROVAL
28 JAN 2015
MEDQ

CONCEPTUAL SEDIMENT MANAGEMENT

DESCRIPTION OF WORKS

- PRIOR TO CONSTRUCTION**
- SEDIMENT FENCE, SAND BAGS AND EARTH RILLS TO BE ERECTED AS INDICATED OR AS DIRECTED.
 - CONTRACTOR TO DISPLAY APPROPRIATE WORKPLACE HEALTH AND SAFETY SIGNAGE DETAILING THE AREA BEYOND IS A CONSTRUCTION SITE AND ONLY AUTHORISED PERSONNEL CAN ENTER.
 - CONSTRUCT ENTRY AND EXIT POINT AS INDICATED.
 - CONSTRUCT VEHICLE WASHDOWN AREA AND ASSOCIATED SEDIMENT MANAGEMENT DEVICES CONSTRUCT SITE OFFICE AND STORAGE COMPOUND AREA.
 - SEDIMENT BASINS TO BE CONSTRUCTED.
 - CUTOFF DRAINS (CLEAN AND DIRTY) TO BE CONSTRUCTED.
- CLEARING**
- EXISTING GRASSED VEGETATED AREAS TO BE RETAINED WHERE POSSIBLE AND EXPOSED DISTURBED AREA MINIMISED.
- EARTHWORKS**
- SUPERINTENDENT TO CONFIRM EXTENT OF CLEARING/EARTHWORKS TO CONTRACTOR PRIOR TO COMMENCEMENT OF WORKS.
 - EFFECTIVELY STABILISE ALLOTMENTS PROGRESSIVELY, AS REQUIRED.
 - SEDIMENT FENCES TO BE RE-ERECTED TO ALLOTMENTS WHEN REQUIRED. ANY STOCKPILES, TEMPORARY STOCKPILES AND EARTHWORKS NOT INTENDED TO BE WORKED FOR MORE THAN 10 DAYS ARE TO BE EFFECTIVELY STABILISED.
 - EARTHWORKS & RETAINING WALLS TO BE COMPLETED AND EXPOSED AREAS EFFECTIVELY STABILISED PRIOR TO WORKS PROCEEDING IN OTHER AREAS.
- STOCKPILE**
- SEDIMENT FENCE TO BE ERECTED 5M FROM TOE OF BATTER ON LOW SIDE OF STOCKPILE.
 - STOCKPILE SITE TO BE CLEAR OF STAGE BOUNDARIES SO AS TO NOT CAUSE A NUISANCE TO ADJOINING PROPERTIES.
 - STOCKPILES NOT INTENDED TO BE WORKED FOR MORE THAN 10 DAYS ARE TO BE EFFECTIVELY STABILISED.
- MAINTENANCE**
- SEDIMENT FENCES AND EARTH RILLS WITHIN ROADS TO BE ERECTED AS INDICATED OR REQUIRED.
 - SEDIMENT FENCES TO BE INSPECTED WEEKLY AND FOLLOWING RAINFALL EVENTS. ANY REPAIRS REQUIRED ARE TO BE EFFECTED IMMEDIATELY.
 - SEDIMENT AFTER RAIN IS TO BE CLEANED FROM STREETS AND ALLOTMENTS IMMEDIATELY AND CORRECTIVE ACTION TAKEN TO AVOID A RE-OCCURRENCE OF THE FAILURE.
 - SEDIMENT BASINS TO BE FLOCCULATED AND PUMPED OUT WITHIN 3 DAYS OF ALL RAIN EVENTS.

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CONTRACTOR TO HYDROMULCH BATTER
AS DIRECTED BY SUPERINTENDENT

LEGEND

- PROPOSED FOOTPATH
- PROPOSED BATTER
- EXISTING FOOTPATH
- EXISTING ROAD
- EXISTING LOT BOUNDARY
- SEDIMENT FENCE (OR AS DIRECTED BY SITE SUPERINTENDENT)
- NATURAL SURFACE CONTOURS
- PROPOSED DESIGN SURFACE CONTOURS

FILE: N14020-104.dwg DATE: 15-10-2014 TIME: 11:14
Xref's: X-N14020-BASE X-N14020-SURVEY X-N14020-TIT X-N14020-200mm-CONTS-DES X-N14020-200mm-CONTS-EXIST USR: kyn kennedy

REV	DATE	BY	CHKD	APPD	DESCRIPTION	SCALE (METRES)	MICROFILM No.	PROJECT No.	SURVEYOR: Saunders Havill Group 9 Thompson St, Bowen Hills, QLD, 4006 Ph 1300 123 744	CLIENT	PROJECT	DRAWING TITLE	DRAWING NUMBER	ISSUE
A	15.10.14	KK	KK		PATH REALIGNED BETWEEN CH 660 - 740 PER COUNCIL REQUIREMENTS	1:500		N14020	APPROVED BRENT THOMAS RPEQ 7862 BRAD THOMPSON RPEQ 7818 SHAWN PILCHER RPEQ 14593 FOR & ON BEHALF OF BROWN CONSULTING (QLD) PTY LTD	LATERAL PROPERTIES	PUB LANE FOOTPATH TEVIOT DOWNS ESTATE	CONCEPTUAL EROSION AND SEDIMENT CONTROL PLAN SHEET 2 OF 2	N14020-104	A

GENERAL NOTES

- THIS DESIGN FOR EROSION AND SEDIMENT CONTROL IS CONCEPTUAL ONLY. THE CONTRACTOR SHALL MODIFY OR INSTALL ADDITIONAL / ALTERNATIVE MEASURES DURING THE CONSTRUCTION AND MAINTENANCE PERIOD IN ORDER TO COMPLY WITH BEST PRACTICE STANDARDS IN ACCORDANCE WITH BUT NOT LIMITED TO BROWN CONSULTING'S SPECIFICATION 17 , THE MANUAL FOR EROSION AND SEDIMENT CONTROL (V1.2) AND ALL STATUTORY REQUIREMENTS .
 - PRESCRIBED WATER CONTAMINANTS (AS DEFINED IN THE ENVIRONMENTAL PROTECTION ACT 1994) MUST NOT BE RELEASED FROM THE SITE, OR BE LIKELY TO BE RELEASED SHOULD RAINFALL OCCUR, UNLESS ALL REASONABLE AND PRACTICABLE MEASURES ARE TAKEN TO PREVENT OR MINIMISE THE RELEASE AND CONCENTRATION OF CONTAMINATION. THESE MEASURES MUST INCLUDE AS A MINIMUM, BUT ARE NOT LIMITED TO, THE FOLLOWING:
 - ENSURE NON ESSENTIAL EXPOSURE OF SOIL IS PREVENTED BY: RESTRICTING THE EXTENT OF CLEARING TO THAT NECESSARY FOR ACCESS TO, AND SAFE CONSTRUCTION OF, THE APPROVED WORKS; PROTECTING VEGETATION IN ALL OTHER AREAS OF THE SITE; AND BY MINIMISING THE DURATION OF SOIL EXPOSURE BY:
 - STAGING THE WORKS TO MINIMISE THE AREA OF SOIL EXPOSED AT ANY ONE TIME;
 - EFFECTIVELY STABILISING CLEARED AREAS PRIOR TO RAINFALL IF WORKS ARE DELAYED OR WORKS ARE NOT INTENDED TO OCCUR IMMEDIATELY. SEE E&SC ADVICE NOTE 1;
 - EFFECTIVELY STABILISING AREAS AT FINISHED LEVEL WITHOUT DELAY AND PRIOR TO RAINFALL; AND
 - EFFECTIVELY STABILISING STEEP AREAS, SUCH AS STOCKPILES, BATTERS AND EMBANKMENTS, WHICH ARE NOT BEING ACTIVELY WORKED AND PRIOR TO RAINFALL.
 - WHERE IT IS NOT FEASIBLE TO EFFECTIVELY STABILISE CLEARED AREAS OF EXPOSED SOIL, SUCH AS AREAS BEING ACTIVELY WORKED, IMPLEMENT A FULL SUITE OF EROSION AND SEDIMENT CONTROLS TO MAXIMISE SEDIMENT CAPTURE IN THOSE AREAS AND TO MINIMISE EROSION SUCH THAT EROSION BY ALL FORMS OTHER THAN SPLASH (RAINDROP IMPACT) EROSION AND SHEET EROSION DOES NOT OCCUR; AND
 - IN AREAS OF EXPOSED SOIL WHERE IT IS NOT FEASIBLE TO EITHER EFFECTIVELY STABILISE THE SURFACE OR IMPLEMENT A FULL SUITE OF EROSION AND SEDIMENT CONTROLS, FOR EXAMPLE IN THE AREAS BEING ACTIVELY WORKED AND WHERE THE IMPLEMENTATION OF SOME EROSION AND SEDIMENT CONTROLS WOULD IMPEDE CONSTRUCTION ACTIVITIES, ENSURE CONTINGENCY MEASURES ARE AVAILABLE ON SITE AND ARE IMPLEMENTED, PRIOR TO RAIN, TO MAXIMISE SEDIMENT CAPTURE AND TO MINIMISE EROSION SUCH THAT EROSION BY ALL FORMS OTHER THAN SPLASH (RAINDROP IMPACT) EROSION AND SHEET EROSION DOES NOT OCCUR
 - EFFECTIVELY STABILISE ALL STOCKPILES, BATTERS AND EMBANKMENTS WITHOUT DELAY. WHERE IT IS NOT FEASIBLE TO EFFECTIVELY STABILISE A STOCKPILE, BATTER OR EMBANKMENT, SUCH AS AREAS BEING ACTIVELY WORKED, ENSURE THAT SEDIMENT CONTROLS ARE INSTALLED AND SURFACE STORMWATER FLOWS ARE MANAGED SUCH THAT EROSION OF STOCKPILES, BATTERS OR EMBANKMENTS IS NOT CAUSED BY CONCENTRATED STORMWATER FLOWS.
 - ENSURE CLEAN STORMWATER IS DIVERTED OR MANAGED AROUND OR THROUGH THE SITE WITHOUT INCREASING THE CONCENTRATION OF TOTAL SUSPENDED SOLIDS OR OTHER CONTAMINANTS IN THE FLOW AND WITHOUT CAUSING EROSION (ON SITE OR OFF SITE). IF IT IS NOT FEASIBLE TO DIVERT ALL AREAS DISCHARGING CLEAN STORMWATER AROUND OR THROUGH THE SITE, MANAGE THE CLEAN STORMWATER RUNOFF AS FOR CONTAMINATED STORMWATER RUNOFF, AND ENSURE THAT SEDIMENT BASINS ARE SIZED TO ACCOMMODATE THE ADDITIONAL VOLUME OF RUNOFF (SEE E&SC ADVICE NOTE 2).
 - ENSURE SHEET FLOWS OF STORMWATER ARE MANAGED SUCH THAT SHEET AND RILL EROSION IS PREVENTED OR MINIMISED.
 - ENSURE THAT ALL CONCENTRATED STORMWATER FLOWS INCLUDING DRAINAGE LINES, DIVERSION DRAINS, CHANNELS AND BATTER CHUTES ARE MANAGED ONTO, THROUGH, AND AT RELEASE POINTS FROM THE SITE IN ALL RAIN EVENTS UP TO AND INCLUDING THE AVERAGE RECURRENCE INTERVAL (ARI) EVENT OF 1 IN 2 YEAR ARI WITHOUT CAUSING WATER CONTAMINATION, SHEET, RILL OR GULLY EROSION, SEDIMENTATION, OR DAMAGE TO STRUCTURES OR PROPERTY
 - ENSURE MEASURES HAVE BEEN IMPLEMENTED SUCH THAT THE RUNOFF FROM ALL DISTURBED AREAS FLOWS TO A SEDIMENT BASIN OR BASINS. WHERE IT IS NOT FEASIBLE TO DIVERT RUNOFF FROM DISTURBED AREAS OF THE SITE TO A SEDIMENT BASIN, IMPLEMENT COMPENSATORY EROSION AND DRAINAGE CONTROLS PRIOR TO RAINFALL TO ENSURE THAT EROSION OF THOSE AREAS DOES NOT OCCUR, INCLUDING EROSION CAUSED BY EITHER SPLASH (RAINDROP IMPACT), SHEET, RILL OR GULLY EROSION PROCESSES (SEE E&SC ADVICE NOTE 3).
 - ENSURE EACH SEDIMENT BASIN HAS THE CAPACITY TO TREAT FLOWS TO CURRENT BEST PRACTICE STANDARDS (SEE E&SC ADVICE NOTE 4) AND AS A MINIMUM TO CONTAIN ALL THE STORMWATER RUNOFF FROM THE 80TH PERCENTILE 5 DAY RAINFALL DEPTH AND STORE 2 MONTHS SEDIMENT FROM THE RECEIVING CATCHMENT, AS DETERMINED USING THE REVISED UNIVERSAL SOIL LOSS EQUATION.
 - ENSURE SEDIMENT BASINS ARE MAINTAINED WITH SUFFICIENT STORAGE CAPACITY TO CAPTURE AND TREAT THE RUNOFF FOR THE DESIGN RAINFALL DEPTH OR EVENT. WHERE SEDIMENT BASINS ARE PROPOSED TO BE OVERSIZED FOR STORAGE OF CAPTURED WATER FOR RE-USE, INSTALL SURVEY MARKERS IN EACH SUCH BASIN TO INDICATE THE LEVEL THAT WATER WITHIN THE BASIN MUST BE LOWERED TO, IN ORDER TO MEET THE STORAGE CAPACITY SPECIFIED IN THE ABOVE REQUIREMENT.
 - ENSURE SEDIMENT BASINS ARE DEWATERED AS SOON AS PRACTICABLE AFTER EACH RAINFALL EVENT.
 - ENSURE THAT DURING DEWATERING, THE CONCENTRATION OF TOTAL SUSPENDED SOLIDS (TSS) DISCHARGED DOES NOT EXCEED 50MG/L AND THAT PH IS WITHIN THE RANGE OF 6.5-8.5. THE CONCENTRATION OF TSS RELEASED BY DEWATERING MAY ONLY EXCEED 50MG/L WHERE IT CAN BE DEMONSTRATED AND SUPPORTED THROUGH DOCUMENTATION THAT:
 - FURTHER SIGNIFICANT RAINFALL IS FORECAST TO OCCUR BEFORE THE TSS CONCENTRATION IS LIKELY TO BE REDUCED TO 50MG/L ; AND
 - RELEASING A HIGHER CONCENTRATION OF TOTAL SUSPENDED SOLID WILL RESULT IN A BETTER ENVIRONMENTAL OUTCOME BY PROVIDING STORAGE FOR THE CAPTURE AND TREATMENT OF RUNOFF FROM THE IMMINENT RAINFALL AND RUNOFF; AND
 - FLOCCULENT HAS BEEN APPLIED AND THE CONCENTRATION OF TSS IN THE CAPTURED WATER HAS ALREADY SIGNIFICANTLY DECREASED.
 - ENSURE SEDIMENT BASINS AND ASSOCIATED STRUCTURES SUCH AS INLETS, OUTLETS AND SPILLWAYS ARE STRUCTURALLY SOUND FOR 10 YEAR ARI RAINFALL EVENT.
 - ENSURE ACCUMULATED SEDIMENT FROM BASINS AND OTHER CONTROLS IS REMOVED AND DISPOSED OF APPROPRIATELY WITHOUT CAUSING WATER CONTAMINATION.
 - ENSURE SEDIMENT DOES NOT LEAVE THE SITE ON THE TYRES OF VEHICLES.
3. THE ENVIRONMENTAL PROTECTION ACT 1994 STATES THAT A PERSON MUST NOT CARRY OUT ANY ACTIVITY THAT CAUSES, OR IS LIKELY TO CAUSE, ENVIRONMENTAL HARM UNLESS THAT PERSON TAKES ALL REASONABLE AND PRACTICAL MEASURES TO PREVENT OR MINIMISE THE HARM. ENVIRONMENTAL HARM INCLUDES ENVIRONMENTAL NUISANCE. IN REGARD PERSONS AND ENTITIES, INVOLVED IN THE CIVIL, EARTHWORKS AND CONSTRUCTION PHASES OF THIS DEVELOPMENT, ARE TO ADHERE TO THEIR 'GENERAL ENVIRONMENTAL DUTY' TO MINIMISE THE RISK OF CAUSING ENVIRONMENTAL HARM.
- ENVIRONMENTAL; HARM IS DEFINED BY THE ACT AS ANY ADVERSE AFFECT, OR POTENTIAL ADVERSE AFFECT WHETHER TEMPORARY OR PERMANENT AND OF WHATEVER MAGNITUDE, DURATION OR FREQUENCY ON AN ENVIRONMENTAL VALUE AND INCLUDES ENVIRONMENTAL NUISANCE. THEREFORE, NO PERSON SHOULD CAUSE ANY INTERFERENCE WITH THE ENVIRONMENT OR AMENITY OF THE AREA BY REASON OF THE EMISSION OF NOISE, VIBRATION, SMELL, FUMES, SMOKE, VAPOR, STEAM, SOOT, ASH, DUST, WASTE WATER, WASTE PRODUCTS, GRIT, SEDIMENT, OIL OR OTHERWISE, OR CAUSE HAZARDS LIKELY IN THE OPINION OF THE ADMINISTERING AUTHORITY TO CAUSE UNDUE DISTURBANCE OR ANNOYANCE TO PERSONS OR AFFECT PROPERTY NOT CONNECTED WITH THE USE.
4. THE CONTRACTOR IS TO TAKE ALL NECESSARY PRECAUTIONS TO CONTROL EROSION AND DOWNSTREAM SEDIMENTATION DURING ALL STAGES OF CONSTRUCTION INCLUDING THE MAINTENANCE PERIOD.
5. WHERE IT IS REQUIRED TO SLASH EXISTING VEGETATION EITHER PRIOR TO THE COMMENCEMENT OF WORKS, DURING THE CONSTRUCTION WORKS AND / OR DURING THE MAINTENANCE PERIOD, SAID VEGETATION SHALL BE SLASHED TO A MINIMUM HEIGHT OF 75mm TO ASSIST WITH THE RETENTION OF SOILS ON SITE (I.E. ASSIST IN THE PREVENTION OF EROSION).
6. WHERE THE EXISTING VEGETATION WITHIN THE PROPOSED LOTS AND / OR PARKLAND IS DISTURBED AS A RESULT OF THE CONSTRUCTION WORKS, SAID EARTHWORKS ARE TO BE TOPSOILED AND EFFECTIVELY STABILISED WITHIN FIVE (5) DAYS, (EARLIER IF RAIN EXPECTED) OF FINAL ALLOTMENT EARTHWORKS. AN EFFECTIVELY STABILISED SURFACE IS DEFINED AS ONE THAT DOES NOT HAVE
 - VISIBLE EVIDENCE OF SOIL LOSS CAUSED BY SHEET, RILL OR GULLY EROSION OR
 - LEAD TO SEDIMENTATION, OR
 - LEAD TO WATER CONTAMINATION.
7. ALL CONSTRUCTION VEHICLES ARE TO ACCESS THE SITE VIA A SINGLE POINT OF ACCESS; THE POINT OF ACCESS, TOGETHER WITH THE MEASURES TO BE IMPLEMENTED, ARE TO BE AGREED WITH COUNCIL'S DESIGNATED REPRESENTATIVE ON SITE. THE PRINCIPLE AIM OF THE MEASURE(S) TO BE IMPLEMENTED IS / ARE TO LIMIT THE TRACKING OF DELETERIOUS MATERIALS ONTO THE SURROUNDING ROAD NETWORK.
8. THE CONTRACTOR SHALL PROVIDE GULLY INLET PROTECTION TO ALL GULLY INLET STRUCTURES LOCATED, DIRECTLY DOWNSTREAM OF THE PROPOSED DEVELOPMENT WORKS.
9. APPROPRIATE PROVISIONS ARE TO BE PROVIDED TO THE INTERFACE BETWEEN THE EXISTING ROADWAY PAVEMENTS AND THE NEW ROADWORK'S CONSTRUCTION. THE PROVISIONS SHALL ADDRESS WORKPLACE HEALTH AND SAFETY CONCERNS (I.E. RESTRICTING ACCESS BY THE GENERAL PUBLIC TO THE SITE).
10. THE LOCATION OF THE CONSTRUCTION VEHICLE COMPOUND, SITE OFFICE AND THE VEHICLE SERVICING AREA SHALL BE AGREED WITH COUNCIL'S DESIGNATED REPRESENTATIVE ON SITE, PRIOR TO THE COMMENCEMENT OF WORKS.
11. CLEARED VEGETATION IS TO NOT BE BURNED ON SITE, ALL VEGETATIVE WASTE(S) SHALL BE MULCHED AND THEREAFTER RETAINED ON SITE FOR USE AS PART OF THE EROSION AND SEDIMENTATION CONTROL STRATEGY OR THE LANDSCAPING / REVEGETATION WORKS. ALL STUMPS AND / OR OTHER ORGANIC MATTER NOT SUITABLE FOR MULCHING SHALL BE DISPOSED OF AT AN APPROVED WASTE DISPOSAL FACILITY.
12. SEDIMENT FENCE AND TURFING RUNNING DOWNSLOPES SHALL HAVE REGULAR FLOW DISSIPATERS AT 45° TO SLOPE AS DIRECTED CONSISTING OF SAND BAGS OR SIMILAR AS REQUIRED.
13. DURING THE CONSTRUCTION PROCESS INCLUDING THAT PERIOD DURING WHICH THE WORKS ARE "ON MAINTENANCE" SHOULD COUNCIL'S DESIGNATED REPRESENTATIVE REQUEST ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES BE IMPLEMENTED, SAID MEASURES SHALL BE IMPLEMENTED AT THE EARLIEST TIME POSSIBLE. NOTWITHSTANDING THE ABOVE REQUIREMENT ANY MEASURES REQUESTED TO BE IMPLEMENTED BY COUNCIL'S DESIGNATED REPRESENTATIVE SHALL BE IMPLEMENTED WITHIN 24 HOURS OF THE TIME OF THE REQUEST.
14. ALL ROOFWATER / SEWER RETICULATION TRENCHES EITHER ADJACENT TO EXISTING DEVELOPMENT OR PERPENDICULAR TO THE CROSSFALL OF THE LAND ARE TO BE TOPSOILED (75mm MINIMUM) AND TURFED. FOR A MINIMUM 900mm WIDTH.
15. THE CONTRACTOR SHALL CONSTRUCT LINED CUTOFF DRAINS IN WORK AREAS SO AS TO LIMIT SLOPE LENGTHS TO A MAXIMUM OF 80M.
16. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT NO RELEASE OR FLOW IS PERMITTED FROM THE SITE, THROUGHOUT THE EARTHWORKS AND CONSTRUCTION PERIOD TO ANY WATER WAYS OR STORMWATER DRAINLINES LEADING TO A WATERWAY OR AREA OF NATIVE VEGETATION UNLESS THE LEVELS OF TOTAL SUSPENDED SOLIDS DOES NOT EXCEED A CONCENTRATION OF 50 MGL.
17. ALL SEDIMENT CONTROL DEVICES SHALL BE MONITORED, CLEANED AND/OR REPAIRED WHENEVER THE ACCUMULATED SEDIMENT REDUCES THE CAPACITY BY 50%.
18. ALL PERIMETER BANK/SWALE SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET.
19. AT ALL TIMES THE CONTRACTOR SHALL MONITOR THE PREVAILING WEATHER CONDITIONS AND PROTECT OR STABILISE ANY DOWNSTREAM CONSTRUCTION AND GULLY INLETS.
20. CLEARING OF SITE AND STOCK PILE AREAS TO BE AS DIRECTED BY THE SUPERINTENDENT.
21. WHERE PRACTICAL THE CONTRACTOR SHALL DIVERT CLEAN WATER ENTERING THE SITE FROM EXTERNAL CATCHMENT(S) AND DIRECTED TO THE STORMWATER SYSTEM. THIS DISCHARGE POINT SHOULD BE ROCK LINED. REGULAR ROCK CHECK DAMS SHOULD BE POSITIONED ALONG THE VEGETATED DRAINAGE LINE LEADING TO THIS DISCHARGE POINT.
22. REGULAR INSPECTIONS AND MAINTENANCE OF VEHICLE WASHDOWN AREA, SITE AND STORAGE COMPOUND TO BE CARRIED OUT BY CONTRACTOR.
23. AREAS USED FOR STORAGE OF CHEMICALS USED FOR CONSTRUCTION PURPOSES SHALL HAVE STORMWATER CONTROL DEVICES ERECTED ADJACENT TO THEM (I.E. EARTH BUND AND SEDIMENT FENCES). UPON COMPLETION OF ROADWORKS WASTE PRODUCTS ARE TO BE DISPOSED OF AS PER LOCAL AUTHORITY GUIDELINES AND TEMPORARY DEVICES ARE TO BE REMOVED AND AREA REHABILITATED.

THE EROSION & SEDIMENT CONTROL PLAN IS A CONCEPT PLAN DEMONSTRATING AN APPROACH TO EROSION & SEDIMENTATION CONTROL FOR THE SITE. IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE AN EROSION & SEDIMENT CONTROL DESIGN AND A COMPLETED DESIGN CERTIFICATE PRIOR TO COMMENCEMENT OF WORK. CERTIFICATION MUST BE UNDERTAKEN BY A SUITABLY QUALIFIED, EXPERIENCED PROFESSIONAL NOT DIRECTLY EMPLOYED BY THE PRINCIPAL.

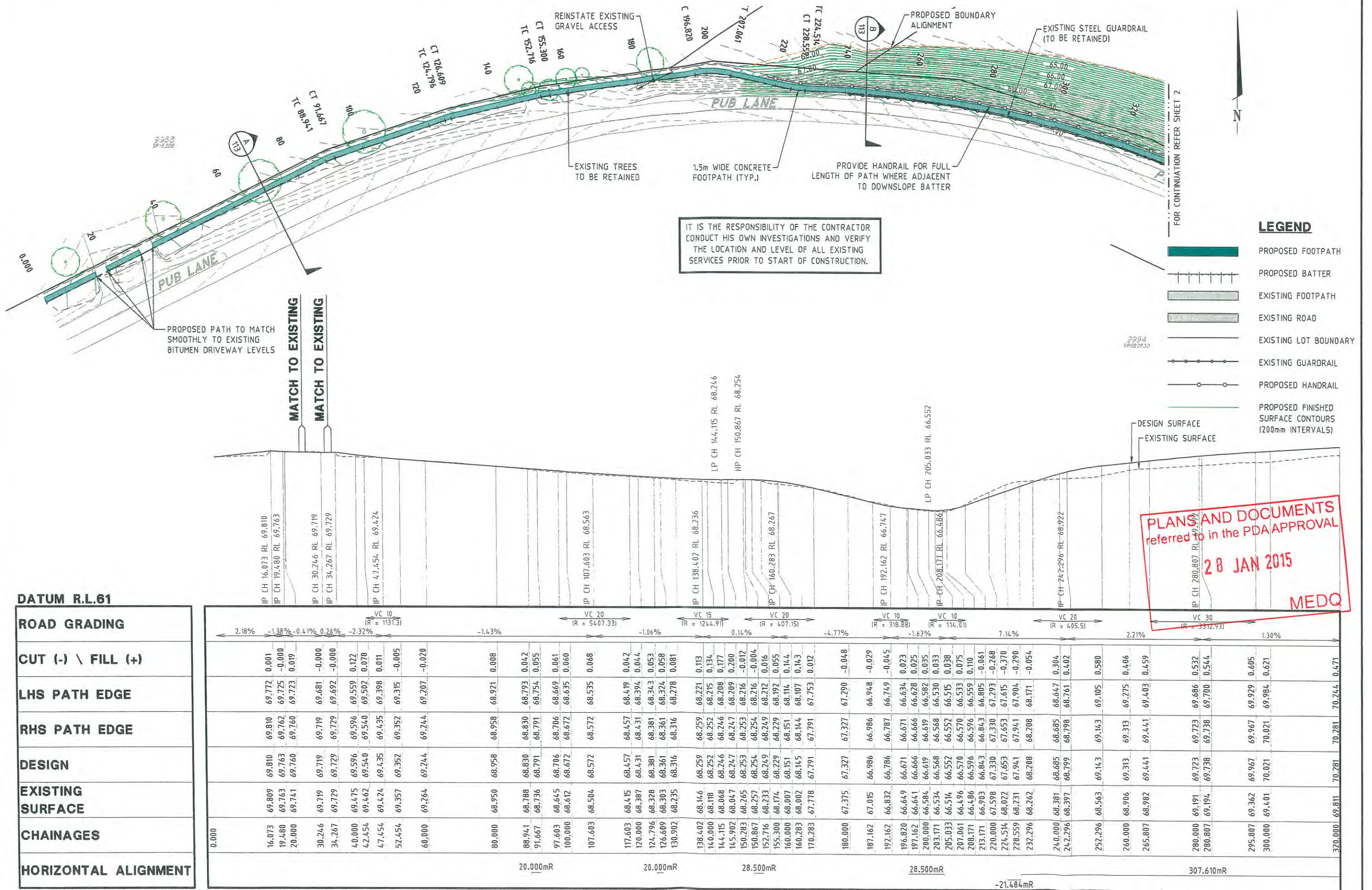
PLANS AND DOCUMENTS
referred to in the PDA APPROVAL

28 JAN 2015

MEDQ

FILE: N14020-105.dwg DATE: 11-09-2014 TIME: 09:35
Xref's: X-N14020-111 USR: ben gear

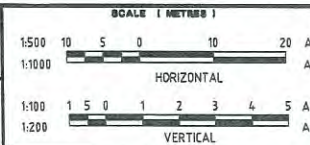
FIRST NAME	LAST NAME	CALC BY	DRAWN BY	DATE	AMENDMENT DETAILS	DESIGN CHECK	SCALE (METRES)	MICROFILM No.	PROJECT No.	SURVEYOR: Saunders Havill Group 9 Thompson St, Bowen Hills, QLD, 4006 Ph 1300 123 744	CLIENT	PROJECT	BROWN <i>Smart Consulting</i>	 Brown Consulting (QLD) Pty Ltd Level 4, 16 Innovation Parkway, Miraflores QLD Australia 4375 Telephone 07 5314 2320 Facsimile 07 5314 2322 Austlians Customer Satisfaction Agency Singapore Australia Council	 Quality Endorsed Company ISO 9001 member CQA	DRAWING TITLE	DRAWING NUMBER	ISSUE
A	B	CC	12.09.14						N14020	APPROVED  BRENT THOMAS RP02 7862 BRAD THOMPSON RP02 7818 SHAUN PILCHER RP02 14593 FOR & ON BEHALF OF BROWN CONSULTING (QLD) PTY LTD	LATERAL PROPERTIES	PUB LANE FOOTPATH TEVIOT DOWNS ESTATE			CONCEPTUAL EROSION AND SEDIMENT CONTROL NOTES	N14020-105		



FILE: N14020-106.dwg DATE: 09-10-2014 TIME: 10:13
Xref's: X-N14020-101 X-N14020-BASE X-N14020-SURVEY X-N14020-ROADS X-N14020-200mm-CONTS-DES USR: kym kennedy

REV	DATE	BY	CHKD	DESCRIPTION
A	12.09.14	KG		
B				
C				
D				
E				
F				

DESIGN CHECK	DRAWN CHECK



MICROFILM No.

PROJECT No.

N14020

SURVEYOR: Saunders Havill Group
9 Thompson St, Bowen Hills, QLD, 4006
Ph 1300 123 744

APPROVED

BRENT THOMAS RPEQ 7862
BRAD THOMPSON RPEQ 7118
SHAWN PILCHER RPEQ 14593

FOR & ON BEHALF OF BROWN CONSULTING (QLD) PTY LTD

CLIENT

LATERAL PROPERTIES

PROJECT

PUB LANE FOOTPATH
TEVIOT DOWNS ESTATE

BROWN
Smart Consulting

Brown Consulting (QLD) Pty Ltd
Level 3, 16 Innovation Parkway, Brisbane QLD Australia 4075
Telephone 07 5314 2320 Facsimile 07 5314 2322
Website: www.brownconsulting.com.au

DRAWING TITLE

FOOTPATH PLAN AND
LONGITUDINAL SECTION
SHEET 1 OF 3

DRAWING NUMBER

N14020-106

18/09/14



IT IS THE RESPONSIBILITY OF THE CONTRACTOR
CONDUCT HIS OWN INVESTIGATIONS AND VERIFY
THE LOCATION AND LEVEL OF ALL EXISTING
SERVICES PRIOR TO START OF CONSTRUCTION.

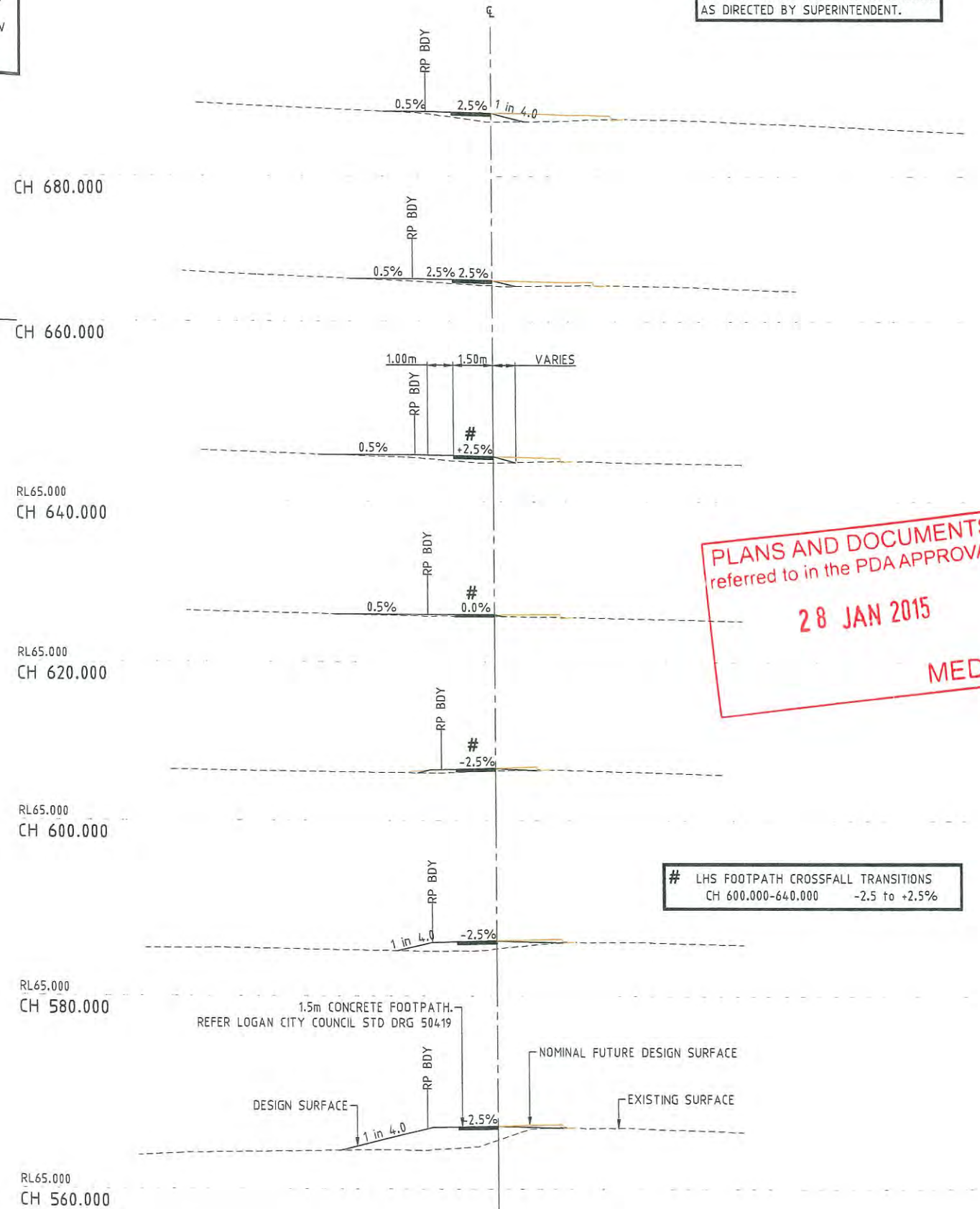
- LEGEND**
- PROPOSED FOOTPATH
 - PROPOSED BATTER
 - EXISTING FOOTPATH
 - EXISTING ROAD
 - EXISTING LOT BOUNDARY
 - EXISTING GUARDRAIL
 - PROPOSED HANDRAIL
 - PROPOSED FINISHED SURFACE CONTOURS (200mm INTERVALS)

DATUM R.L.60

ROAD GRADING		VC 20 (R = 1077.39)		VC 10 (R = 1187.22)		VC 10 (R = 10950.35)		VC 20 (R = 2430.38)		VC 20 (R = 3440.84)		VC 20 (R = 3439.91)		VC 20 (R = 1539.82)		VC 15 (R = 1732.41)		VC 10 (R = 1460.85)			
CUT (-) \ FILL (+)		1.30%	-0.56%	0.29%	-1.07%	-0.71%	-0.80%	-1.63%	-2.21%	-1.63%	-0.33%	-1.19%	-0.51%								
LHS PATH EDGE		70.281	70.244	70.310	70.477																
RHS PATH EDGE		70.347	70.431	70.395	70.502																
DESIGN		70.347	70.431	70.395	70.502																
EXISTING SURFACE		70.347	70.431	70.395	70.502																
CHAINAGES		320.000	325.057	335.057	335.587	337.270	339.072	339.214	340.000	340.000	340.000	340.000	340.000	340.000	340.000	340.000	340.000	340.000	340.000	340.000	340.000
HORIZONTAL ALIGNMENT		49.008mR	50.000mR	50.000mR	49.998mR	308.647mR															

PLANS AND DOCUMENTS
referred to in this approval
28 JAN 2015
MEDQ

BATTERS TO BE TURFED/HYDROMULCHED
AS DIRECTED BY SUPERINTENDENT.



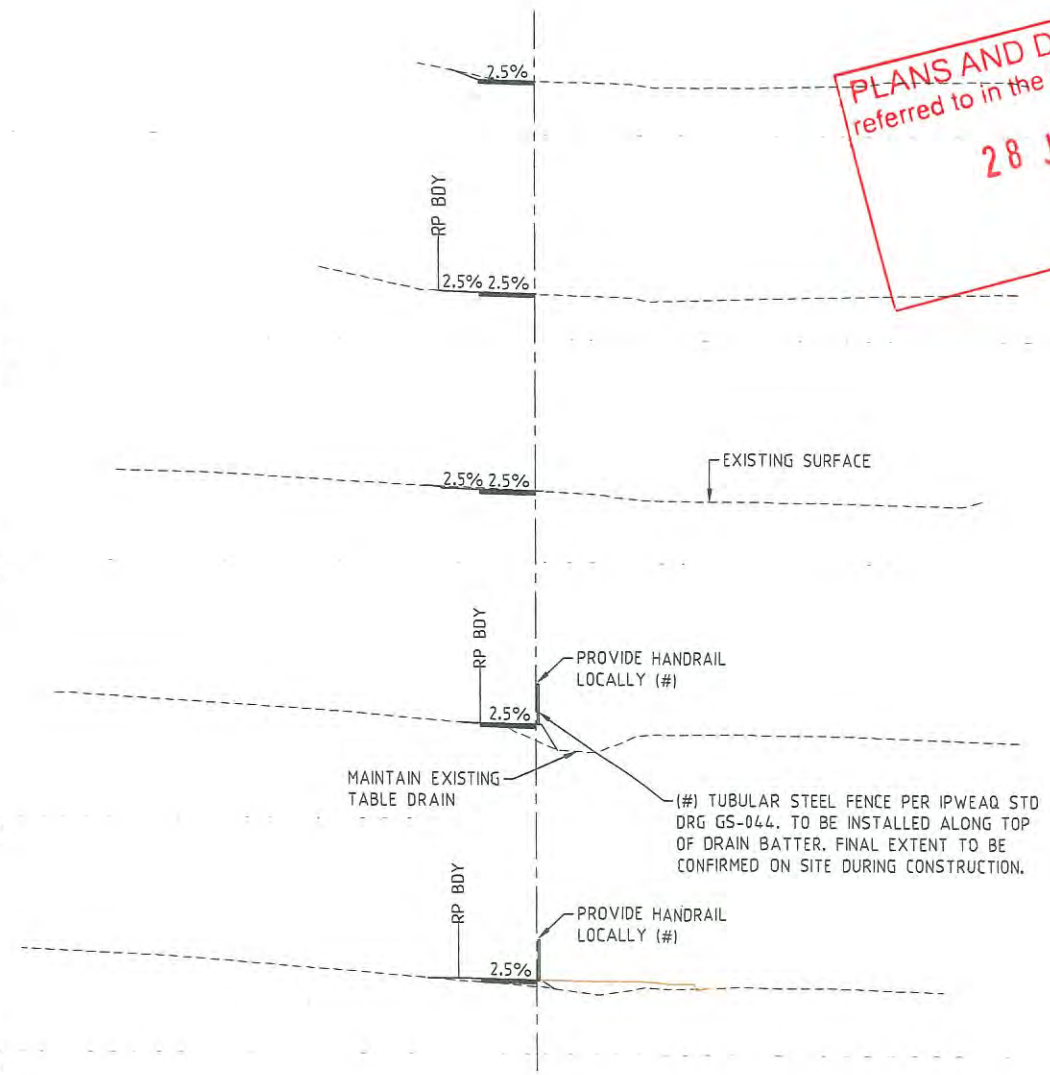
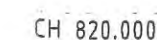
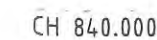
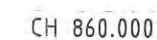
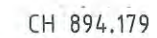
PLANS AND DOCUMENTS
referred to in the PDA APPROVAL

28 JAN 2015

MEDQ

#	LHS FOOTPATH CROSSFALL TRANSITIONS
	CH 600.000-640.000 -2.5 to +2.5%

BATTERS TO BE TURFED/HYDROMULCHED
AS DIRECTED BY SUPERINTENDENT.



FIRST ISSUE		CALCS	DRAWN	DATE	AMENDMENT DETAILS
AMENDMENT T	A	KK	KK	12.09.14	PATH REALIGNED BETWEEN CH 660 - 740 PER COUNCIL REQUIREMENTS
	B				
	C				
	D				
	E				
	F				

DESIGN CHECK	
DRAWN CHECK	

SCALE (METRES)

1:100 1 5 0 1 2 3 4 5 A1

1:200 A3

PROJECT No.
N14020

SURVEYOR: Saunders Havill Group
9 Thompson St, Bowen Hills, QLD, 4006
Ph 1300 123 744

APPROVED  BRENT THOMAS RPE
BRAD THOMPSON RPE
SHAWN PILCHER RPE

FOR & ON BEHALF OF BROWN CONSULTING (Q/D) PTY LTD

CLIENT	LATERAL PROPERTIES
PROJECT	PUB LANE FOOTPATH TEVIOT DOWNS ESTATE

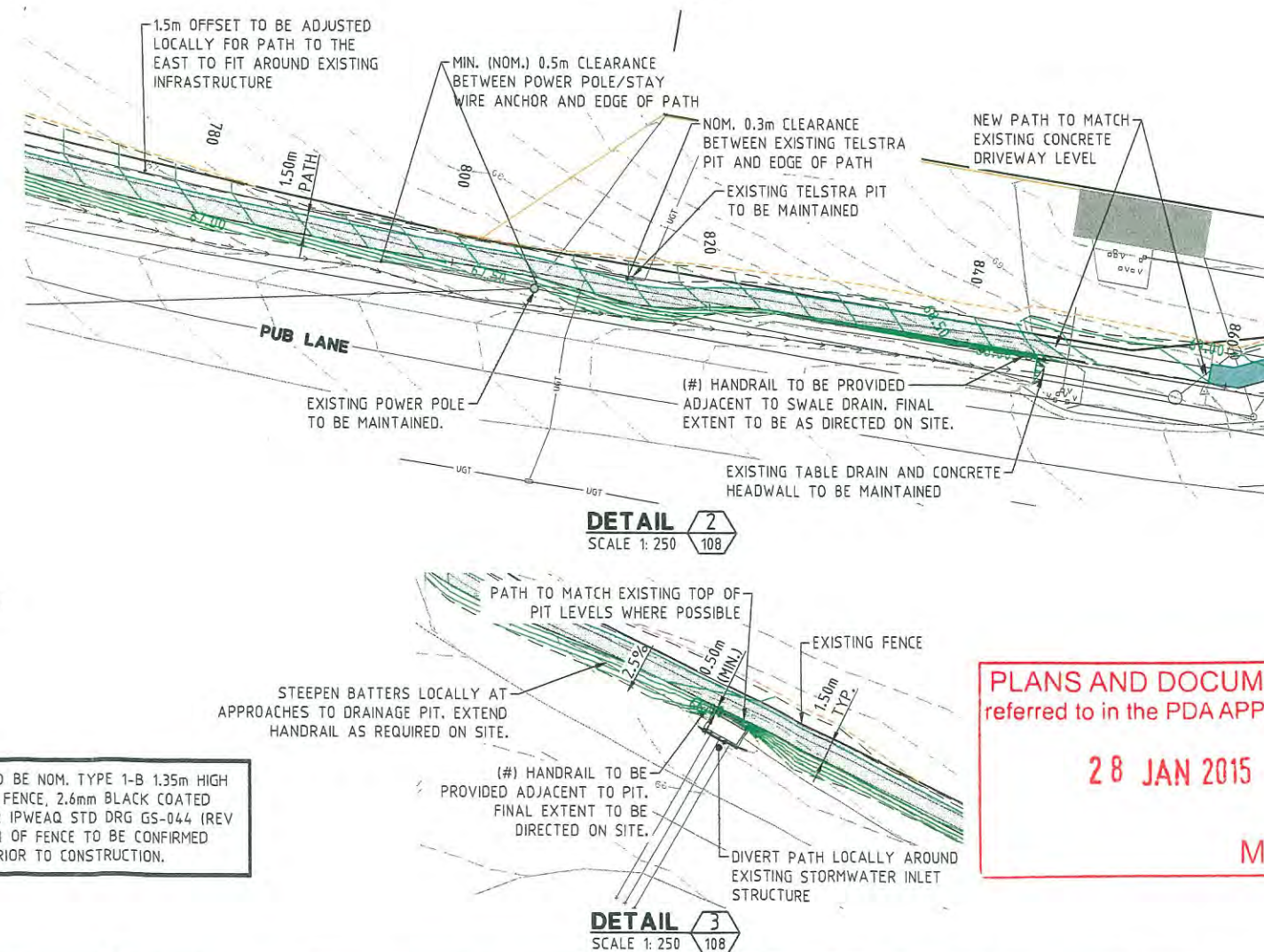
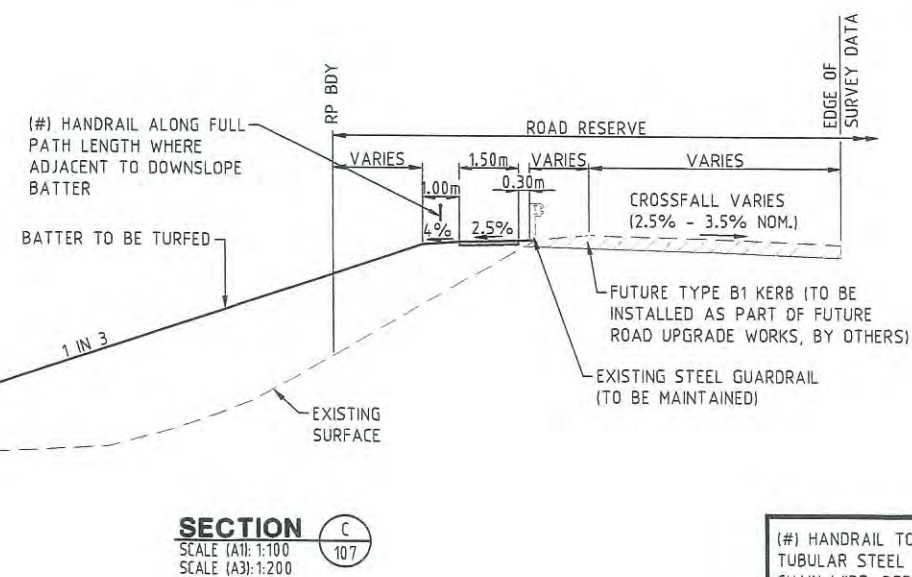
BROWN
Smart Consulting

CONSULT AUSTRALIA

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Level 9, 14 Innovation Parkway, Brisbane QLD Australia 4575
Telephone: 07 5314 2520 Facsimile: 07 5314 2522

Quality Endorsed Company ISO 9001

DRAWING TITLE		ISSUE
FOOTPATH CROSS SECTIONS SHEET 4 OF 4		A
DRAWING NUMBER		
N14020 112		



MEDQ