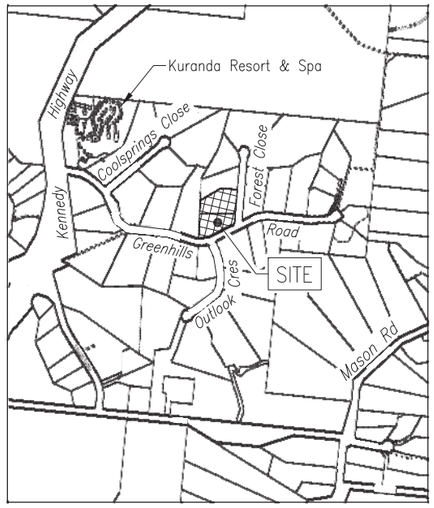

LOCALITY PLAN

Not to Scale

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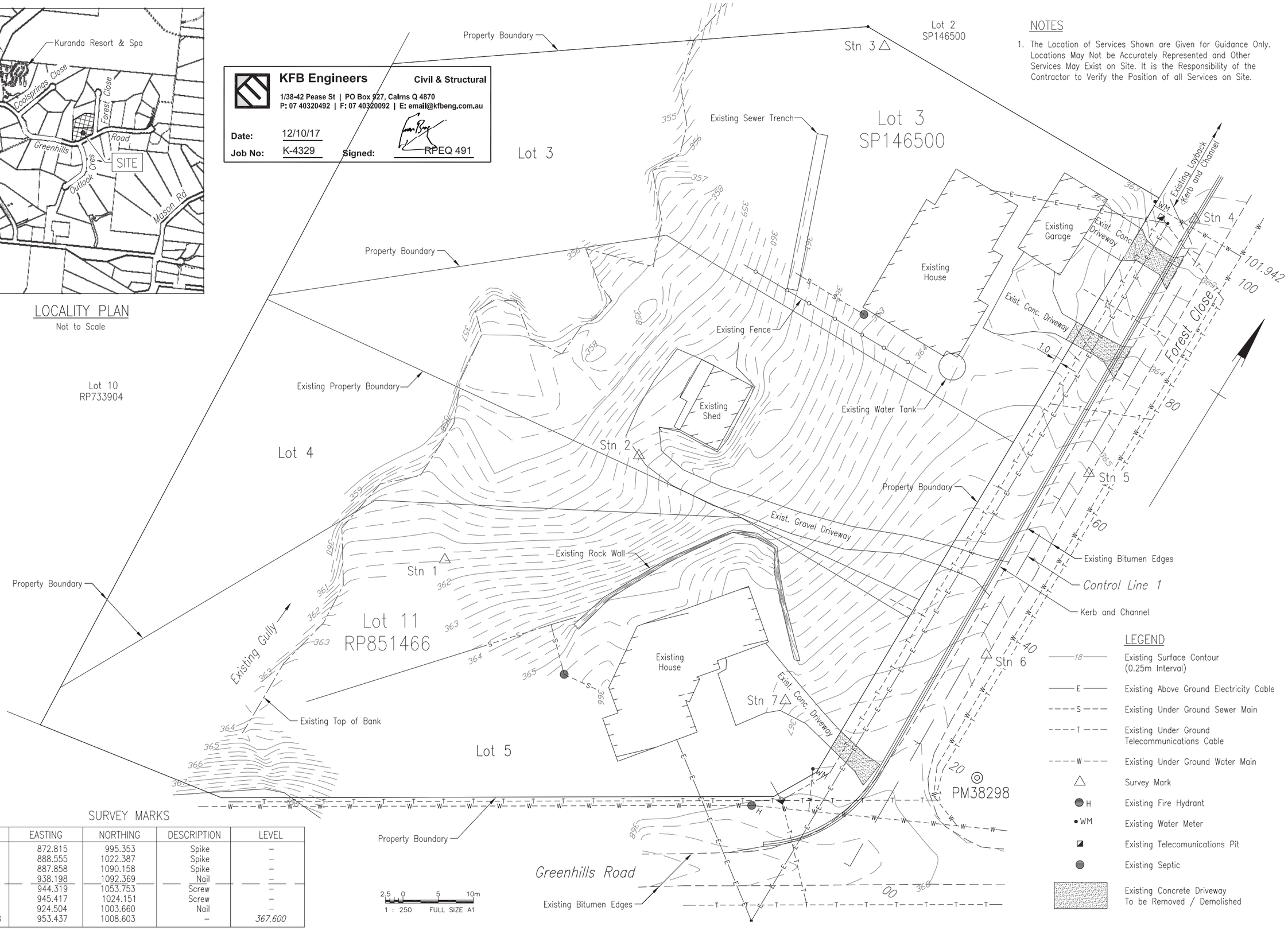
Date: 12/10/17

Job No: K-4329

Signed: RPEQ 491

NOTES

1. The Location of Services Shown are Given for Guidance Only. Locations May Not be Accurately Represented and Other Services May Exist on Site. It is the Responsibility of the Contractor to Verify the Position of all Services on Site.



LEGEND

18	Existing Surface Contour (0.25m Interval)
E	Existing Above Ground Electricity Cable
S	Existing Under Ground Sewer Main
T	Existing Under Ground Telecommunications Cable
W	Existing Under Ground Water Main
△	Survey Mark
H	Existing Fire Hydrant
WM	Existing Water Meter
	Existing Telecomunications Pit
	Existing Septic
	Existing Concrete Driveway To be Removed / Demolished

SURVEY MARKS

MARK	EASTING	NORTHING	DESCRIPTION	LEVEL
Stn 1	872.815	995.353	Spike	–
Stn 2	888.555	1022.387	Spike	–
Stn 3	887.858	1090.158	Spike	–
Stn 4	938.198	1092.369	Nail	–
Stn 5	944.319	1053.753	Screw	–
Stn 6	945.417	1024.151	Screw	–
Stn 7	924.504	1003.660	Nail	–
PM38298	953.437	1008.603	–	367.600

No.	DATE	ISSUE / REVISIONS	DRN	CHKD
2	11/10/17	For Approval	TWV	KB
1	05/10/17	Preliminary	TWV	KB

DRAWING FILE: XREF FILE:

Saeed Derakshan

Lot 11 on RP851466 & Lot 3 on SP146500
Lot Reconfirguration, Kuranda

General Arrangement

KFB ENGINEERS Civil & Structural
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E: email@kfbeng.com.au

JOB No: K-4329

SHEET: C01 2

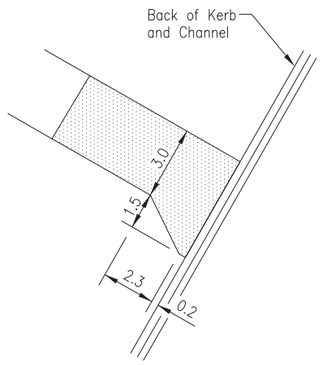
SCALE: 1:250 (@ A1)

LEGEND

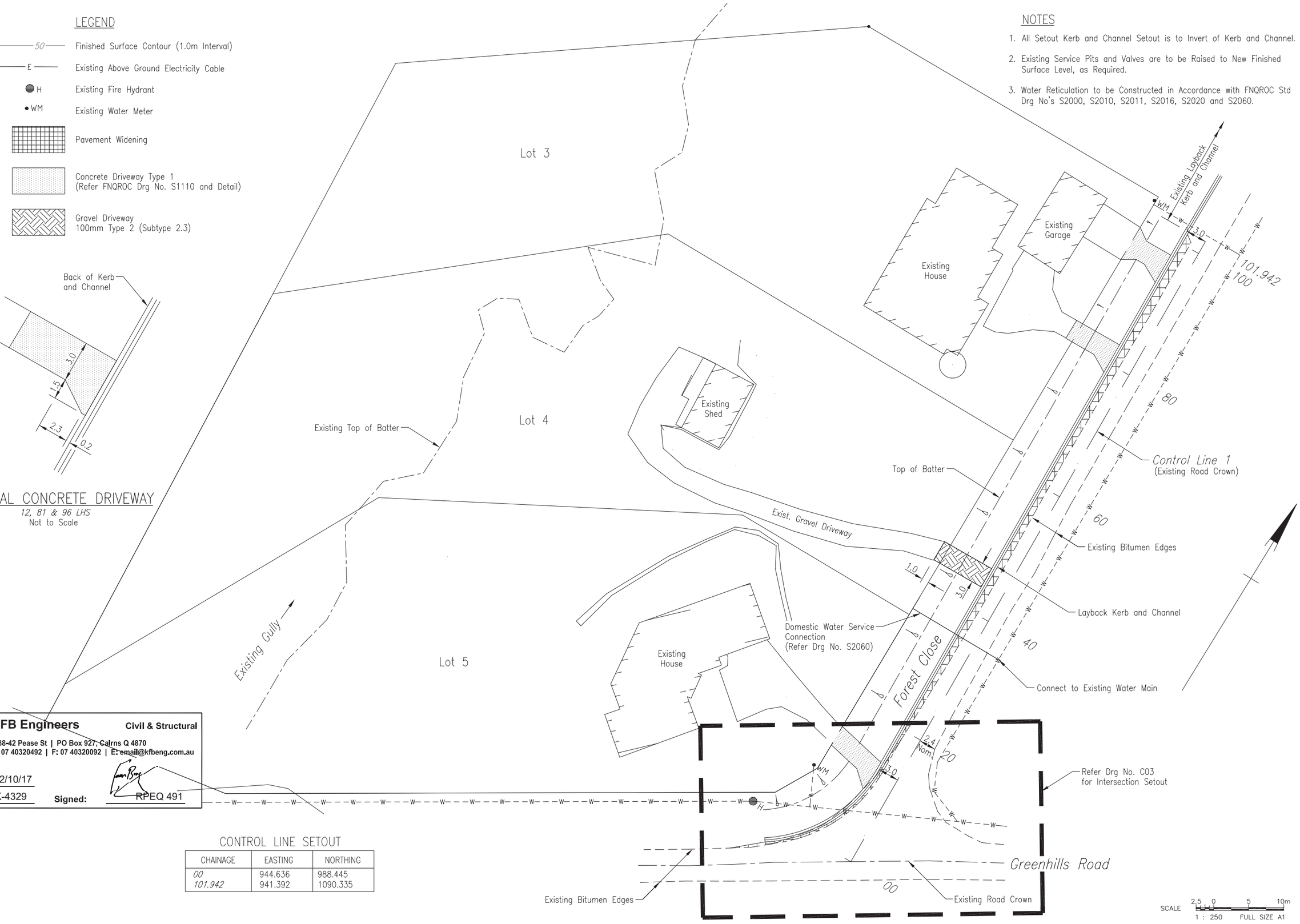
- 50 — Finished Surface Contour (1.0m Interval)
- E — Existing Above Ground Electricity Cable
- H — Existing Fire Hydrant
- WM — Existing Water Meter
- Pavement Widening
- Concrete Driveway Type 1 (Refer FNQROC Drg No. S1110 and Detail)
- Gravel Driveway 100mm Type 2 (Subtype 2.3)

NOTES

1. All Setout Kerb and Channel Setout is to Invert of Kerb and Channel.
2. Existing Service Pits and Valves are to be Raised to New Finished Surface Level, as Required.
3. Water Reticulation to be Constructed in Accordance with FNQROC Std Drg No's S2000, S2010, S2011, S2016, S2020 and S2060.



TYPICAL CONCRETE DRIVEWAY
12, 81 & 96 LHS
Not to Scale



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Date: 12/10/17
Job No: K-4329
Signed: RPEQ 491

CONTROL LINE SETOUT

CHAINAGE	EASTING	NORTHING
00	944.636	988.445
101.942	941.392	1090.335

No.	DATE	ISSUE / REVISIONS	DRN	CHKD
2	11/10/17	For Approval	TWV	KB
1	05/10/17	Preliminary	TWV	KB

DRAWING FILE: XREF FILE:

Saeed Derakshan
Lot 11 on RP851466 & Lot 3 on SP146500
Lot Reconfirguration, Kuranda

Setout

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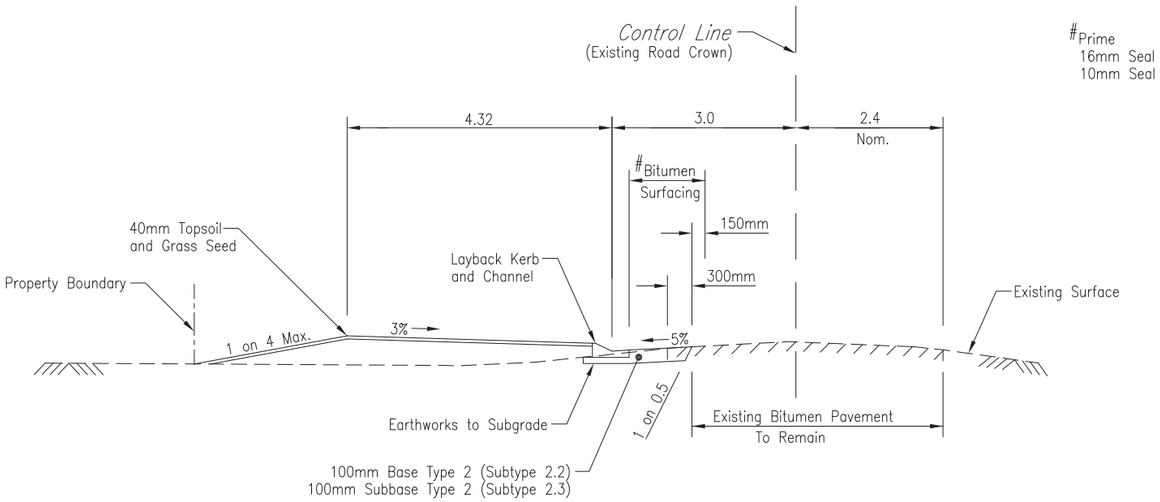
JOB No: K-4329
SHEET: C02 2
SCALE: 1:250 (@ A1)

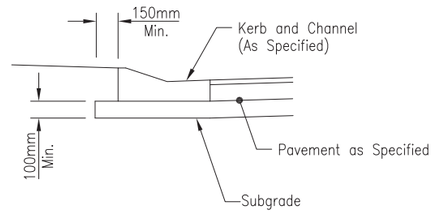


FOREST CLOSE – PAVEMENT WIDENING

13.424 – 101.942

NOTES

1. Kerb and Channel to be Constructed in Accordance with FNQROC Std Drg No. S1000.
2. All Works to be Constructed in Accordance with the Relevant FNQROC Specification, Unless Noted Otherwise.
3. All Setout Kerb and Channel Setout is to Invert of Kerb and Channel.



KERB AND CHANNEL DETAIL

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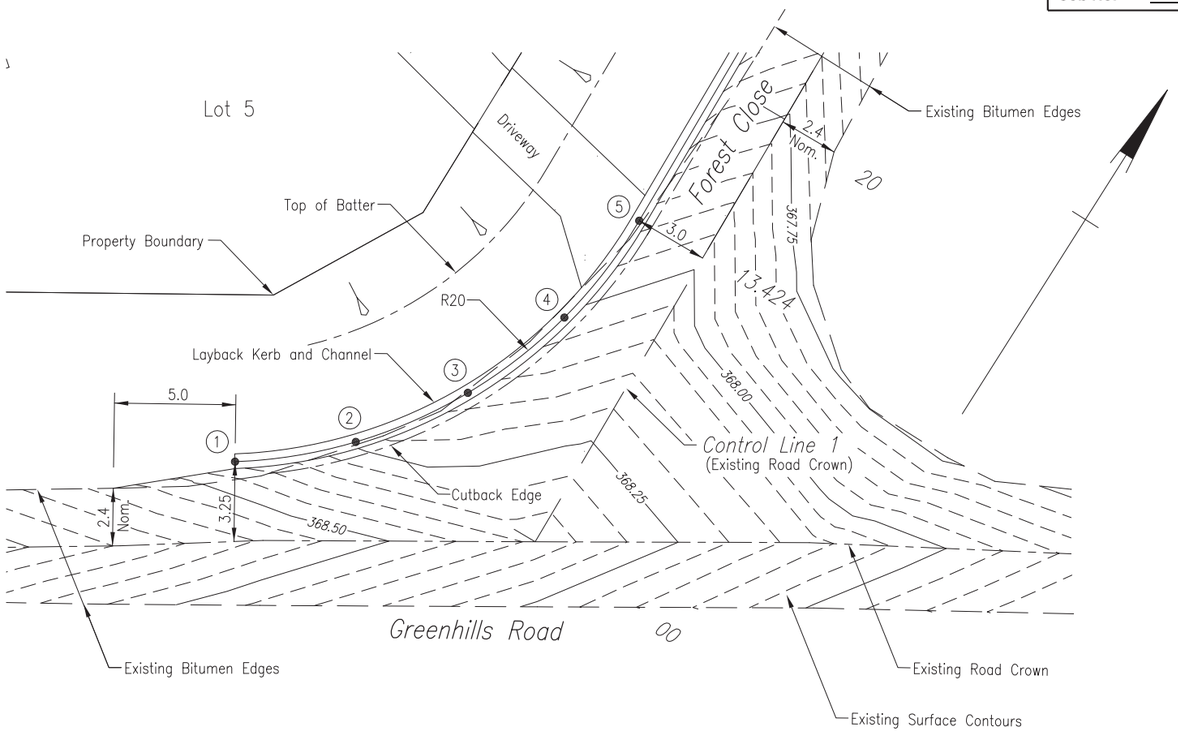
Date: 12/10/17
Job No: K-4329
Signed: RPEQ 491

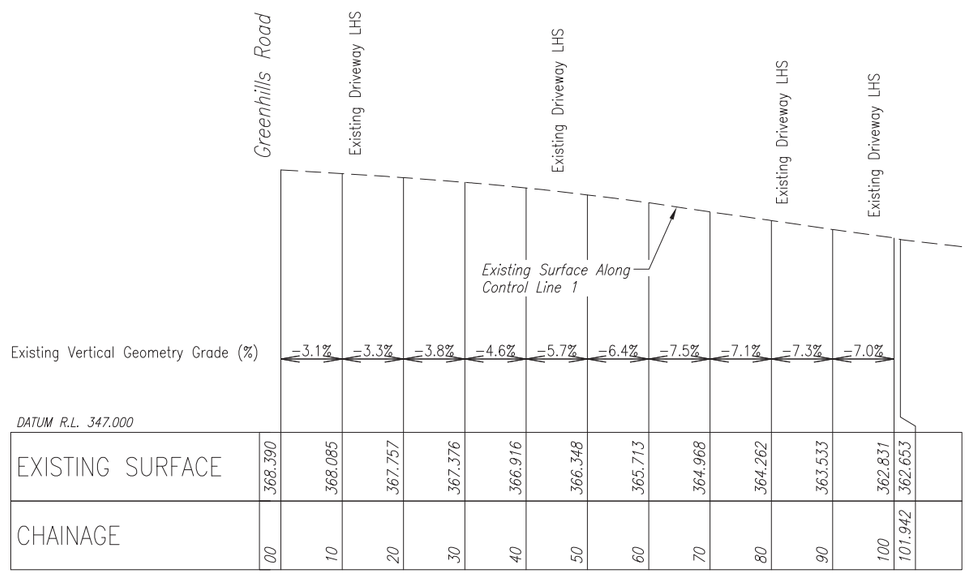
DESIGN SETOUT POINTS

POINT	EASTING	NORTHING	HEIGHT	DESCRIPTION
1	932.549	984.648	*368.389*	TP
2	936.275	987.963	*368.232*	–
3	939.064	992.097	*368.110*	–
4	940.744	996.793	*368.001*	–
5	941.210	1001.766	*367.866*	TP



INTERSECTION OF GREENHILLS ROAD AND FOREST CLOSE

1.25 0 2.5m 5m
1 : 125 FULL SIZE A1



LONGITUDINAL SECTION FOREST CLOSE CONTROL LINE 1

Horizontal 5 0 10 20m — 1 : 500 FULL SIZE A1
Vertical 2.5 0 5 10m — 1 : 250 FULL SIZE A1

No.	DATE	ISSUE / REVISIONS	DRN	CHKD
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1	05/10/17	Preliminary	TWV	KB

DRAWING FILE: XREF FILE:

Saeed Derakshan
Lot 11 on RP851466 & Lot 3 on SP146500
Lot Reconfirguration, Kuranda

Typical Section and Details

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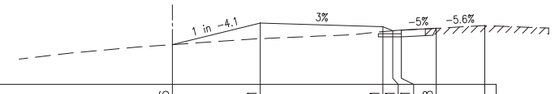
JOB No: K-4329
SHEET: C03 2
SCALE: N.T.S. (@ A1)

Centreline Data
X = 943.363
Y = 1028.424
Z = 366.916
Datum 365

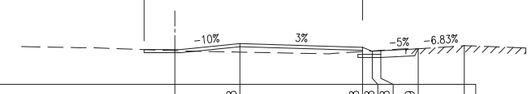


DESIGN HEIGHT	366.296	367.001	366.881	366.751	366.771	366.828	
EXISTING SURFACE	366.296	366.490	366.720	366.745	366.765	366.828	366.916
DESIGN OFFSET	-10.187	-7.320	-3.320	-3.000	-2.720	-1.582	0.000

CHAINAGE 40.000

Exist. Conc. Driveway
New Conc. Driveway

Centreline Data
X = 942.09
Y = 1068.404
Z = 364.262
Datum 363

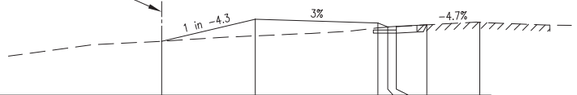


DESIGN HEIGHT		364.328	364.208	364.078	364.098	364.159	
EXISTING SURFACE	364.099	364.052	364.069	364.089	364.109	364.159	364.262
DESIGN OFFSET	-9.442	-7.320	-3.320	-3.000	-2.720	-1.503	0.000

CHAINAGE 80.000

Property Boundary

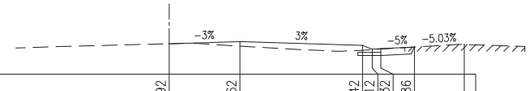
Centreline Data
X = 943.681
Y = 1018.429
Z = 367.376
Datum 365



DESIGN HEIGHT	366.758	367.475	367.355	367.225	367.245	367.294	
EXISTING SURFACE	366.758	366.934	367.195	367.218	367.235	367.294	367.376
DESIGN OFFSET	-10.374	-7.320	-3.320	-3.000	-2.720	-1.726	0.000

CHAINAGE 30.000

Centreline Data
X = 942.409
Y = 1058.409
Z = 364.968
Datum 364



DESIGN HEIGHT	364.992	365.062	364.942	364.812	364.832	364.886	
EXISTING SURFACE	364.992	364.913	364.777	364.802	364.819	364.886	364.968
DESIGN OFFSET	-9.628	-7.320	-3.320	-3.000	-2.720	-1.624	0.000

CHAINAGE 70.000

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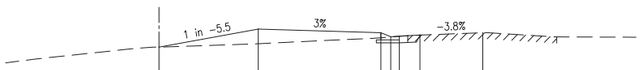
Date: 12/10/17
Job No: K-4329
Signed: RPEQ 491

Centreline Data
X = 943.999
Y = 1008.434
Z = 367.757
Datum 366

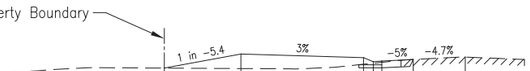


DESIGN HEIGHT	367.288	367.876	367.756	367.626	367.646	367.680	
EXISTING SURFACE	367.288	367.399	367.593	367.617	367.638	367.680	367.757
DESIGN OFFSET	-10.560	-7.320	-3.320	-3.000	-2.720	-2.046	0.000

CHAINAGE 20.000

Property Boundary

Centreline Data
X = 942.727
Y = 1048.414
Z = 365.713
Datum 364

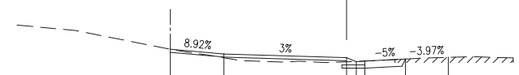


DESIGN HEIGHT	365.354	365.812	365.692	365.562	365.582	365.634	
EXISTING SURFACE	365.354	365.339	365.481	365.512	365.541	365.634	365.713
DESIGN OFFSET	-9.815	-7.320	-3.320	-3.000	-2.720	-1.696	0.000

CHAINAGE 60.000

Exist. Conc. Driveway
New Conc. Driveway

Centreline Data
X = 941.454
Y = 1088.394
Z = 362.831
Datum 362



DESIGN HEIGHT	363.095	362.939	362.819	362.689	362.709	362.775	
EXISTING SURFACE	363.095	362.817	362.684	362.697	362.710	362.775	362.831
DESIGN OFFSET	-9.069	-7.320	-3.320	-3.000	-2.720	-1.395	0.000

CHAINAGE 100.000

Exist. Conc. Driveway
New Conc. Driveway

Centreline Data
X = 944.209
Y = 1001.862
Z = 367.972
Datum 366

DESIGN HEIGHT	367.640	368.116	367.996	367.866	367.886	367.893	
EXISTING SURFACE	367.640	367.730	367.852	367.872	367.887	367.893	367.979
DESIGN OFFSET	-10.683	-7.320	-3.320	-3.000	-2.720	-2.578	0.000

CHAINAGE 13.424

Exist. Gravel Driveway
New Gravel Driveway

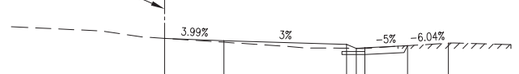
Centreline Data
X = 943.045
Y = 1038.419
Z = 366.348
Datum 365

DESIGN HEIGHT		366.436	366.316	366.186	366.206	366.263	
EXISTING SURFACE	365.870	365.942	366.142	366.180	366.196	366.263	366.348
DESIGN OFFSET	-10.001	-7.320	-3.320	-3.000	-2.720	-1.575	0.000

CHAINAGE 50.000

Property Boundary

Centreline Data
X = 941.772
Y = 1078.399
Z = 363.533
Datum 362



DESIGN HEIGHT	363.690	363.613	363.493	363.363	363.383	363.452	
EXISTING SURFACE	363.690	363.564	363.369	363.363	363.364	363.452	363.533
DESIGN OFFSET	-9.255	-7.320	-3.320	-3.000	-2.720	-1.330	0.000

CHAINAGE 90.000

1 0 1 2 3 4 5m
1 : 100 FULL SIZE A1

No.	DATE	ISSUE / REVISIONS	DRN	CHKD
2	11/10/17	For Approval	TWV	KB
1	05/10/17	Preliminary	TWV	KB

DRAWING FILE: XREF FILE:

Saeed Derakshan
Lot 11 on RP851466 & Lot 3 on SP146500
Lot Reconfirguration, Kuranda

CROSS SECTIONS ALONG CONTROL LINE 1

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JOB No: K-4329
SHEET: C04 2
SCALE: 1 : 100 (@ A1)

NOTES

1. All Sediment and Erosion Control Measures Shall be in Place Prior to Construction.
2. Where Possible the Works are to be Programmed to be Constructed During Lower than Average Rainfall Periods.
3. All Erosion and Sediment Control Measures Shall be Checked for Damage, Cleaned Out and Reinstated After Each Rainfall Event.
4. All Drainage Structures are to be Protected Against Sediment Infiltration During Construction.
5. Silt Fencing is to be Erected on the Downstream Side of all Stockpiles & about the Construction Site as Detailed on this Drawing.
6. All Temporary Erosion and Sediment Control Measures are to Remain in Place until all Areas have been Fully Revegetated.
7. All Disturbed Areas are to be Topsoiled and Grass Seeded.

LEGEND

18	Finished Surface Contour (0.25m Interval)
SF	Silt Fence
SCD	Sandbag Check Dam

KFB Engineers Civil & Structural

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Date: 12/10/17

Job No: K-4329 Signed: RPEQ 491

SCALE 2.5 0 5 10m
1 : 250 FULL SIZE A1

No.	DATE	ISSUE / REVISIONS	DRN	CHKD
2	11/10/17	For Approval	TWV	KB
1	05/10/17	Preliminary	TWV	KB

DRAWING FILE: XREF FILE:

Saeed Derakshan

Lot 11 on RP851466 & Lot 3 on SP146500
Lot Reconfirguration, Kuranda

Erosion and Sediment Control Strategy

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JOB No: K-4329
SHEET: C05 2
SCALE: 1:250 (@ A1)

KERB AND CHANNEL CAPACITY

REFERENCE POINT	DEPTH OF K & C (m)	LONGITUDINAL FALL (%)	FLOW WIDTH (m)	FLOW AREA (m^2)	FLOW VELOCITY (m/s)	FLOW (m^3/s)
1	0.11	7	2.7	0.15	2.5	0.38

DRAINAGE CALCULATIONS

REFERENCE POINT	CATCHMENT AREA (ha)	TIME OF CONCENTRATION (Min)	RUNOFF COEFFICIENT (C_2)	RAINFALL INTENSITY (I_2, mm/hr)	FLOW (Q_2, m^3/s)	RUNOFF COEFFICIENT (C_{100})	RAINFALL INTENSITY (I_{100}, mm/hr)	FLOW (Q_{100}, m^3/s)
1	0.08	5	0.8	150.76	0.03	1.0	324.73	0.07

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Date: 12/10/17
Job No: K-4329
Signed: RPEQ 491

SCALE 1 : 250 — 2.5 0 5 10m — FULL SIZE A1

No.	DATE	ISSUE / REVISIONS	DRN	CHKD
2	11/10/17	Preliminary	TWV	KB
1	05/10/17	Preliminary	TWV	KB

DRAWING FILE: XREF FILE:

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Lot 11 on RP851466 & Lot 3 on SP146500
Lot Reconfirguration, Kuranda

Stormwater Drainage Calculations

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JOB No: K-4329
SHEET: C06 2
SCALE: 1:250 (@ A1)