

GENERAL NOTES:

1. THE CONTRACTOR SHALL SUPPLY ALL LABOR, MATERIALS, PLANT AND EQUIPMENT TO CONSTRUCT THE WORKS AS DOCUMENTED AND STRICTLY IN ACCORDANCE WITH THE RELEVANT AUTHORITY STANDARDS, SPECIFICATIONS AND REQUIREMENTS.
2. THE EXISTING SERVICES THAT ARE SHOWN ON THE DRAWINGS ARE PROVIDED FOR INFORMATION PURPOSES ONLY. NO RESPONSIBILITY IS TAKEN BY THE SUPERINTENDENT OR THE PRINCIPAL FOR INFORMATION THAT HAS BEEN SUPPLIED BY OTHERS, OR ANY EXISTING SERVICES THAT MAY BE PRESENT NOT SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL VERIFY THE POSITION OF ANY UNDERGROUND SERVICES WITHIN THE AREAS OF WORKS AND SHALL BE RESPONSIBLE FOR MAKING GOOD ANY DAMAGE THERETO. ANY ALTERATION WORKS TO SERVICES WILL BE CARRIED OUT ONLY BY THE SERVICE OWNER AUTHORITY UNLESS APPROVED OTHERWISE.
3. ALL CONSTRUCTION ACTIVITIES UNDERTAKEN SHALL COMPLY WITH CURRENT WORKPLACE HEALTH AND SAFETY REQUIREMENTS AND LEGISLATION.
4. PRIOR TO COMMENCING WORK, THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL RELEVANT LOCAL AUTHORITY PERMITS.
5. THE CONTRACTOR SHALL NOT COMMENCE THE DEMOLITION OF ANY EXISTING BUILDINGS AND/OR STRUCTURES WITHOUT APPROVAL FROM THE SUPERINTENDENT.
6. THE CONTRACTOR SHALL APPLY INDUSTRY BEST PRACTICE SO WORKS SHALL NOT DISTURB OR AFFECT NEARBY RESIDENTS EITHER BY DUST, NOISE, FLOODING OR DISCONNECTION OF SERVICES. CONTRACTOR TO ENSURE THAT ACCESS AND SERVICES TO EXISTING PROPERTIES ARE AVAILABLE AT ALL TIMES.
7. THE CONTRACTOR SHALL VERIFY LEVELS OF EXISTING SERVICE CROSSINGS AND CONNECTION POINTS PRIOR TO COMMENCEMENT OF WORKS AND NOTIFY SUPERINTENDENT OF ANY DISCREPANCIES BETWEEN ACTUAL AND PROPOSED DESIGN LEVELS.
8. THESE ENGINEERING DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE APPROVED VEGETATION MANAGEMENT PLAN, WHERE APPLICABLE. WHEN IN DOUBT, ALL EXISTING TREES ARE TO REMAIN UNLESS DIRECTED OTHERWISE.
9. **HOLD POINT:** ONCE THE BASE OF MANHOLES, INSPECTION PITS, GULLIES AND FIELD INLETS FOR STORMWATER DRAINAGE AND SEWER RETICULATION HAVE BEEN POURED, CONSTRUCTION SHALL ONLY RE-COMMENCE ONCE THE SUPERINTENDENT AND/OR ENGINEER HAVE INSPECTED THE WORKS.
10. THE CONTRACTOR SHALL NOTE DURING THE COURSE OF THE WORKS WHEN JOINT INSPECTIONS WITH THE AUTHORITY AND THE SUPERINTENDENT ARE REQUIRED. THESE INCLUDE PRE-STARTS, SUBGRADES, PRE-SEALS, CLEARING, AND OTHER SUCH INSPECTIONS AS NOMINATED IN THE APPROVAL AND THE SPECIFICATIONS. THE CONTRACTOR SHALL ENSURE NO WORKS PROCEED PAST THE INSPECTION POINT UNTIL THE JOINT INSPECTION HAS BEEN SUCCESSFULLY COMPLETED.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A SAFE MOVEMENT OF TRAFFIC AND THE PROTECTION OF PERSON AND PROPERTY THROUGH AND AROUND THE SITE. THE CONTRACTOR IS RESPONSIBLE FOR ALL TRAFFIC MANAGEMENT INCLUDING THE DESIGN, CONSTRUCTION, MAINTENANCE AND REMOVAL OF TEMPORARY ROADWAYS, DETOURS, SIGNS, LIGHTS AND BARRIER AS REQUIRED STRICTLY IN ACCORDANCE WITH THE RELEVANT AUTHORITY REQUIREMENTS.

BULK EARTHWORKS NOTES

1. NOTWITHSTANDING THE EXTENTS OF CUTTING AND FILLING SHOWN ON DRAWINGS, THE SUPERINTENDENT RESERVES THE RIGHT TO ADJUST THE FINISHED SURFACE LEVELS AND EARTHWORKS EXTENTS THROUGH WRITTEN DIRECTION.
2. THE CONTRACTOR SHALL UNDERTAKE ALL CLEARING USING INDUSTRY BEST PRACTICE INCLUDING CONSIDERATION OF FAUNA RELOCATION.
3. THE CONTRACTOR SHALL UNDERTAKE ALL EARTHWORKS IN ACCORDANCE WITH AS3798-2007 AND LOCAL AUTHORITY REQUIREMENTS. LEVEL 1 SUPERVISION IS REQUIRED.
4. THE CONTRACTOR SHALL CONSIDER LOADS GENERATED BY THE EARTHWORKS OPERATIONS SO AS TO AVOID DAMAGE TO ALL PIPES, SERVICES AND STRUCTURES.
5. THE EARTHWORKS DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE PROJECT'S SEDIMENT AND EROSION CONTROL PLAN, WHERE APPLICABLE.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PLANNING, DESIGN, CERTIFICATION, IMPLEMENTATION AND MAINTENANCE OF AN EROSION AND SEDIMENT CONTROL PLAN THAT IS COMPLIANT WITH THE INTERNATIONAL EROSION CONTROL ASSOCIATION (IECA) GUIDELINE 'BEST PRACTICE EROSION AND SEDIMENT CONTROL' AND RELEVANT COUNCIL POLICIES.
7. ALLOTMENT FINISHED SURFACE LEVELS, SHOWN ON THE LAYOUT PLAN, INDICATE THE FINISHED SURFACE LEVEL AFTER TOPSOIL PLACEMENT.

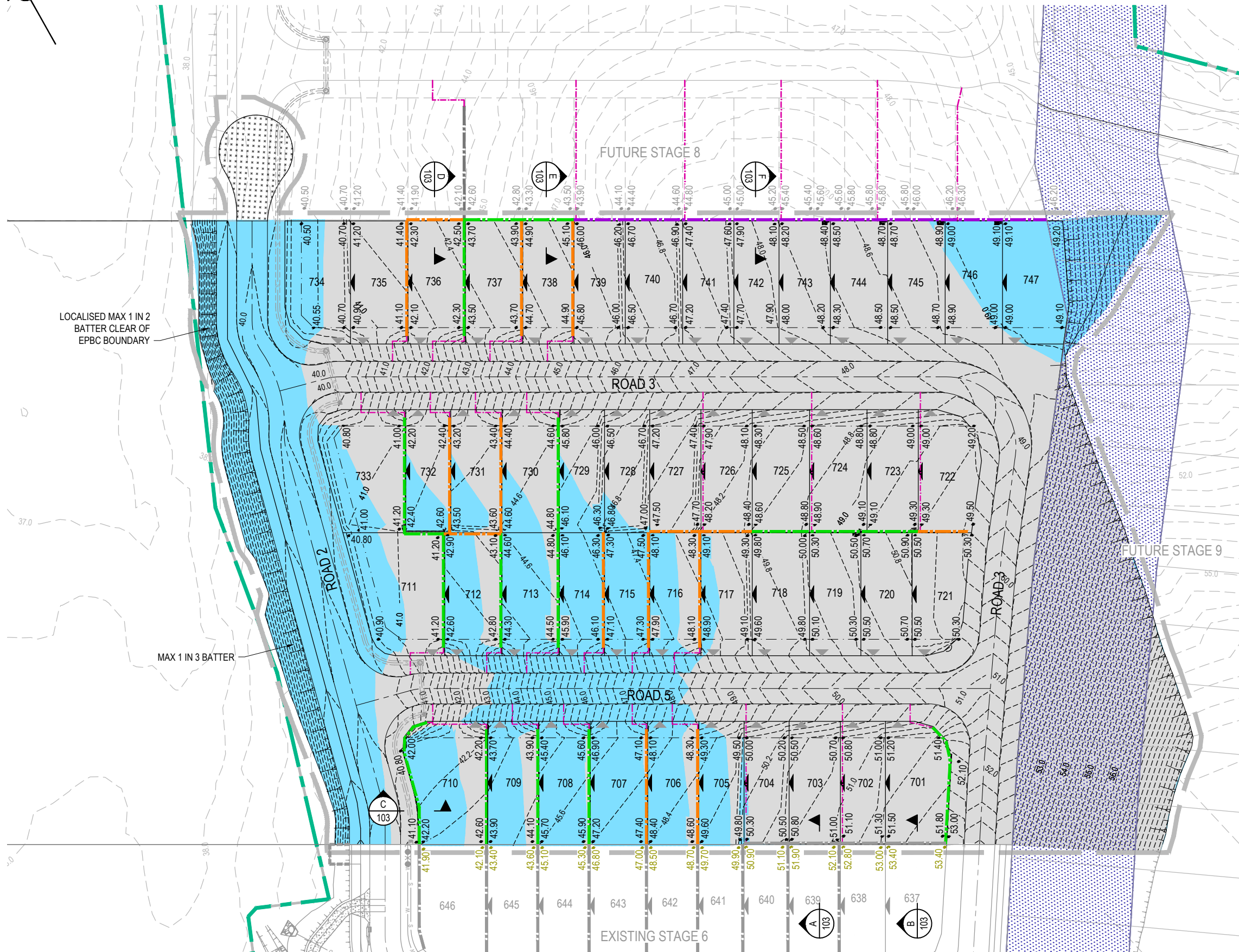
ROADWORKS AND DRAINAGE NOTES

1. ALL WORKS SHALL BE IN ACCORDANCE WITH THE RELEVANT AUTHORITY'S STANDARD DRAWINGS, METHODS AND SPECIFICATIONS.
2. NOTWITHSTANDING THE EXTENTS OF CUTTING AND FILLING SHOWN ON DRAWINGS, THE SUPERINTENDENT RESERVES THE RIGHT TO ADJUST THE FINISHED SURFACE LEVELS AND EARTHWORKS EXTENTS THROUGH WRITTEN DIRECTION.
3. NEW CONSTRUCTION SHALL BE NEATLY JOINED TO EXISTING FORMATION. WHERE REQUIRED, THE EXISTING FORMATION SHALL BE SAW CUT IN ACCORDANCE WITH IPWEAQ STD DRG RS-170. LEVELS AND GRADIENTS AT CONNECTIONS WITH EXISTING WORKS MAY BE VARIED AS REQUIRED TO ACHIEVE A SMOOTH CONNECTION.
4. THE CONTRACTOR SHALL UNDERTAKE ALL EARTHWORKS IN ACCORDANCE WITH AS3798-2007 AND LOCAL AUTHORITY REQUIREMENTS. LEVEL 1 SUPERVISION IS REQUIRED.
5. THE CONTRACTOR SHALL SUPPLY THE SUPERINTENDENT WITH THE SUBGRADE TEST RESULTS NECESSARY FOR ALL PAVEMENT DESIGN.
6. THE CONTRACTOR SHALL ENSURE A MINIMUM OF 75mm TOPSOIL TO ALL VERGE AND BATTER AREAS (AND STABILISATION AS ORDERED)
7. THE CONTRACTOR SHALL INSTALL ALL FOOTPATH AND PRAM RAMPS IN COMPLIANCE WITH THE AUTHORITY'S STANDARD DRAWINGS. PRAM RAMPS ARE TO BE LOCATED CLEAR OF DRAINAGE GULLY PITS AND FUTURE DRIVEWAY POSITIONS INDICATED ON THE LAYOUT PLANS.
8. THE CONTRACTOR SHALL INSTALL SUBSOIL DRAINS UNDER ALL KERBS AS REQUIRED BY THE LOCAL AUTHORITY'S STANDARDS.
9. THE CONTRACTOR SHALL ENSURE THAT ALL RETAINING WALL SUBSOIL DRAINS ARE TO CONNECT TO EITHER KERB ADAPTORS OR STORMWATER DRAINAGE STRUCTURES. CONTRACTOR TO DEMONSTRATE TO SUPERINTENDENT THAT SUITABLE CONNECTIONS HAVE BEEN PROVIDED FOR ALL WALLS.
10. ALL STORMWATER DRAINAGE MATERIALS, BEDDING, JOINTING AND STEP IRON REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE RELEVANT AUTHORITIES STANDARD DRAWINGS, METHODS AND SPECIFICATIONS.
11. THE STORMWATER PIPE CLASSES HAVE BEEN DESIGNED FOR SERVICE LOADS ONLY. THE CONTRACTOR SHALL ASSESS THE SUITABILITY OF MACHINERY USED ON SITE AND THE ANTICIPATED CONSTRUCTION LOADS, AND UPGRADE THE PIPE CLASSES IF NECESSARY IN ACCORDANCE WITH AS3725-2007.
12. THE TERM D₅₀ DOCUMENTED ON THE DRAWINGS, IN RELATION TO ROCK ARMORING, CORRESPONDS TO THE REQUIRED MEDIAN DIAMETER OF THE PLACED ROCKS. THE ROCKS USED SHALL NOT VARY IN SIZE BY +/- 30% OF THE PROPOSED D₅₀ SIZE.

ROOFWATER NOTES

1. THE GEOMETRIC CENTRE SHALL BE TAKEN AS THE SETOUT POINT FOR ALL STRUCTURES, UNLESS DETAILED OTHERWISE.
2. ROOFWATER ALIGNMENT, COVER, MATERIALS, BEDDING, JOINTING AND STEP IRON REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE RELEVANT AUTHORITY'S STANDARD DRAWINGS, METHODS AND SPECIFICATIONS.
3. ALL PVC PIPES ARE TO BE MINIMUM CLASS SN8.
4. END CAPS SHALL BE INSTALLED ON ENDS OF ALL PIPES AND STUBS.
5. WHERE ROOFWATER PIPES ARE ALIGNED BEHIND PROPOSED RETAINING WALLS, THE CONTRACTOR IS TO REFER TO THE SPECIFIC PROJECT DESIGN DETAILS AND CONFIRM CLEARANCES WITH THE SUPERINTENDENT PRIOR TO LAYING OF THE PIPES.
6. PROPERTY CONNECTIONS SHALL BE 1500 UNLESS SHOWN OTHERWISE. THE CONTRACTOR SHALL EXTEND CONNECTIONS A MINIMUM OF 1.0m BEYOND ADJACENT SEWER LINES, WHERE APPLICABLE.
7. IN INSTANCES WHERE REAR ALLOTMENT DRAINAGE IS NOT PROVIDED, THE CONTRACTOR SHALL INSTALL A ROOFWATER CONNECTION TO EACH PROPERTY BY ONE OF THE FOLLOWING METHODS, AS SHOWN ON THE LAYOUT PLAN:
 - TWO ROOFWATER KERB ADAPTORS, ONE ON A 500mm FROM THE DOWNSTREAM BOUNDARY, THE SECOND ON A 6.0m OFFSET FROM THE DOWNSTREAM BOUNDARY. WHERE THERE IS A CONCRETE FOOTPATH, A ROOFWATER PIPE SHALL BE INSTALLED FROM THE PROPERTY BOUNDARY CONNECTED TO THE KERB ADAPTOR AT 1.25% MINIMUM GRADE IN ACCORDANCE WITH COUNCIL'S STANDARDS.
 - ONE 1500 ROOFWATER PIPE CONNECTED TO PROPOSED STORMWATER GULLY PIT OR MANHOLE AT MINIMUM 1.0% GRADE WITH 1.0m COVER.

REV	DATE	DESIGN	DRAWN	REVISION DETAILS		DRAWN	STATUS	SCALE	CLIENT	PROJECT NAME	DRAWING TITLE		
A	28.10.22	KH	KH	ISSUED FOR CONSTRUCTION		KH	ISSUED FOR CONSTRUCTION		RIPLEY PROJECTS PTY LTD	HAYFIELD STAGE 7	GENERAL NOTES		
						DESIGN	APPROVED DAN COLLINS RPEQ 18631		ASSOCIATED CONSULTANT	352 RIPLEY ROAD, RIPLEY QLD	PROJECT No. 21-0024	DRAWING No. 101	REVISION A
							FOR AND ON BEHALF OF PEAKURBAN PTY LTD	ENQUIRIES@PEAKURBAN.COM.AU					



LEGEND

- PROPOSED AREA OR WORKS
- EPBC BOUNDARY
- 24.0- PROPOSED SURFACE CONTOUR
- 24.0- EXISTING SURFACE CONTOUR
- PROPOSED EARTHWORKS PAD SETBACK LINE
- PROPOSED CONCRETE SLEEPER RETAINING WALL LESS THAN 1.0m HIGH
- PROPOSED CONCRETE SLEEPER RETAINING WALL HEIGHT RANGE 1.0-1.5m
- PROPOSED CONCRETE SLEEPER RETAINING WALL HEIGHT RANGE 1.5-3.0m
- FUTURE CONCRETE SLEEPER RETAINING WALL
- RETAINING WALL SUBSOIL PIPE EXTENSION
- PROPOSED FINISHED SURFACE LEVEL (FSL) (AFTER TOPSOIL PLACEMENT)
- EXISTING SURFACE LEVEL (ESL)
- FUTURE SURFACE LEVEL (FSL)
- PROPOSED AREA OF CUT
- PROPOSED AREA OF FILL
- INDICATIVE DRIVEWAY LOCATIONS
- ZERO LOT BOUNDARY
- EXISTING STORMWATER DRAINAGE PIPE
- EXISTING SEWER MAIN
- EXISTING WATER MAIN
- EXISTING ELECTRICAL CABLE U/G
- EXISTING ELECTRICAL CABLE O/H

WARNING! - EXISTING SERVICES

EXTREME CARE SHOULD BE TAKEN WHEN EXCAVATING IN THIS AREA. THE FOLLOWING EXISTING SERVICES ARE LIKELY TO BE PRESENT IN THE VICINITY OF THE SITE:

- ELECTRICAL CABLES
- TELECOMMUNICATIONS CABLES
- GAS MAINS
- WATER MAINS
- SEWER MAINS

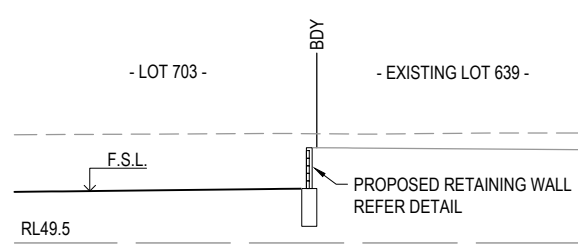
THE CONTRACTOR SHOULD CONTACT THE SERVICE PROVIDER FOR FURTHER INFORMATION AND SATISFY THEMSELVES OF ANY SPECIFIC TREATMENT OR REQUIREMENTS.

REV	DATE	DESIGN	DRAWN	REVISION DETAILS	DRAWN	STATUS		SCALE	CLIENT	PROJECT NAME	DRAWING TITLE
A	28.10.22	KH	KH	ISSUED FOR CONSTRUCTION	KH	ISSUED FOR CONSTRUCTION		1:500 1:1000	RIPLEY PROJECTS PTY LTD	HAYFIELD STAGE 7	BULK EARTHWORKS LAYOUT PLAN
					DB	DESIGN APPROVED DAN COLLINS RPEQ 18631				352 RIPLEY ROAD, RIPLEY QLD	PROJECT No. 21-0024
											DRAWING No. 102
											REVISION A

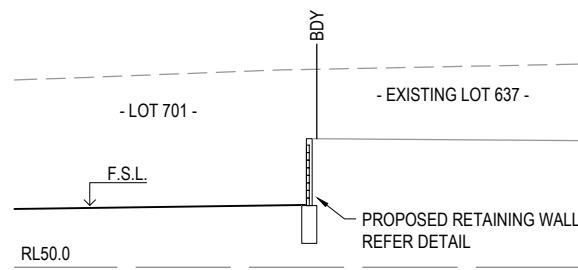


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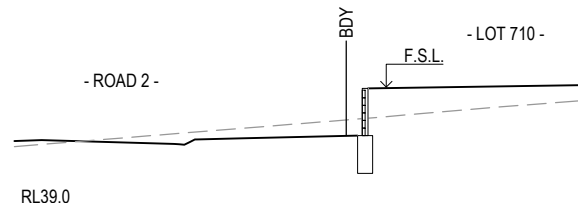
- RETAINING WALL NOTES:**
1. ALL RETAINING WALLS ARE TO BE DELIVERED UNDER DESIGN AND CONSTRUCTION ARRANGEMENT - FORMS 15 AND 16 CERTIFICATIONS ARE TO BE PROVIDED BY THE CONTRACTOR.
 2. BUILDING APPROVAL TO BE OBTAINED FOR ALL RELEVANT RETAINING WALLS, PRIOR TO CONSTRUCTING RETAINING WALLS
 3. DESIGN OF WALLS TO CONSIDER ALL LOADS (FENCES, DWELLINGS ETC) AND ASSOCIATED IMPACTS FROM ANY ADJACENT SERVICES - FOOTING DEPTHS TO BE EXTENDED AS REQUIRED.
 4. GEOTECHNICAL CONDITIONS ARE TO BE CONFIRMED AND APPROPRIATELY CONSIDERED FOR ALL WALLS.
 5. REFER LANDSCAPE DRAWINGS FOR FURTHER INFORMATION ON RETAINING WALLS, PARTICULARLY RELATING TO FINISHES.
 6. TEMPORARY SAFETY FENCING TO BE INSTALLED BEHIND ALL WALLS 1.0m HIGH AND GREATER.
 7. CONCRETE SLEEPER RETAINING WALLS ON COMMON BOUNDARY OF ALLOTMENTS AND ROAD RESERVE / OPEN SPACE WHICH ARE VISIBLE FROM PUBLIC SPACE ARE TO BE FINISHED TO FULL DEPTH COLOUR (COFFEE BROWN, TERRACOTTA OR STORM GREY) AND TEXTURED TREATMENT (TIMBER, OR STONE PROFILE AND GRAIN)



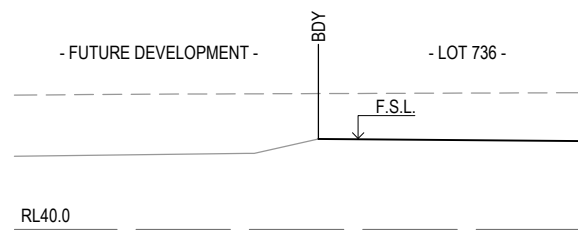
SECTION A
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SCALE 1:200 (A3)



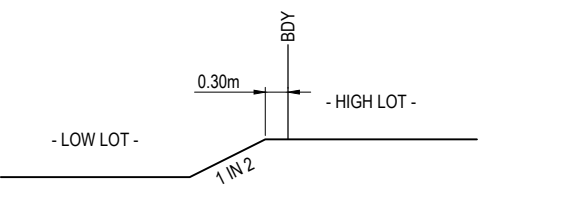
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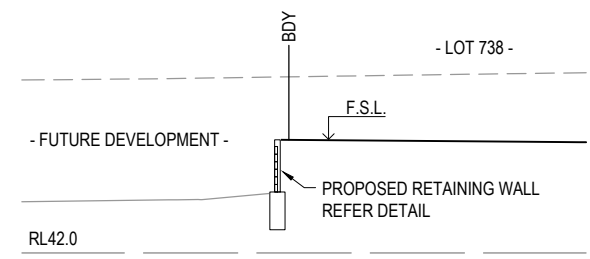
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SCALE 1:200 (A3)



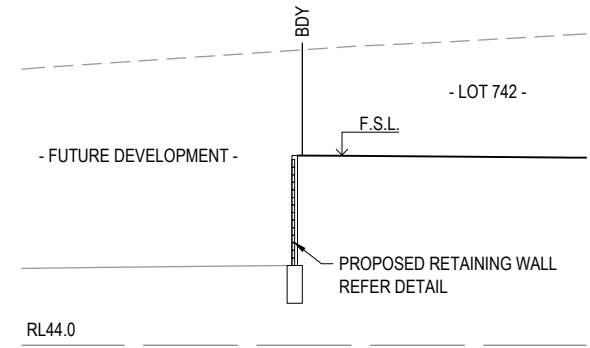
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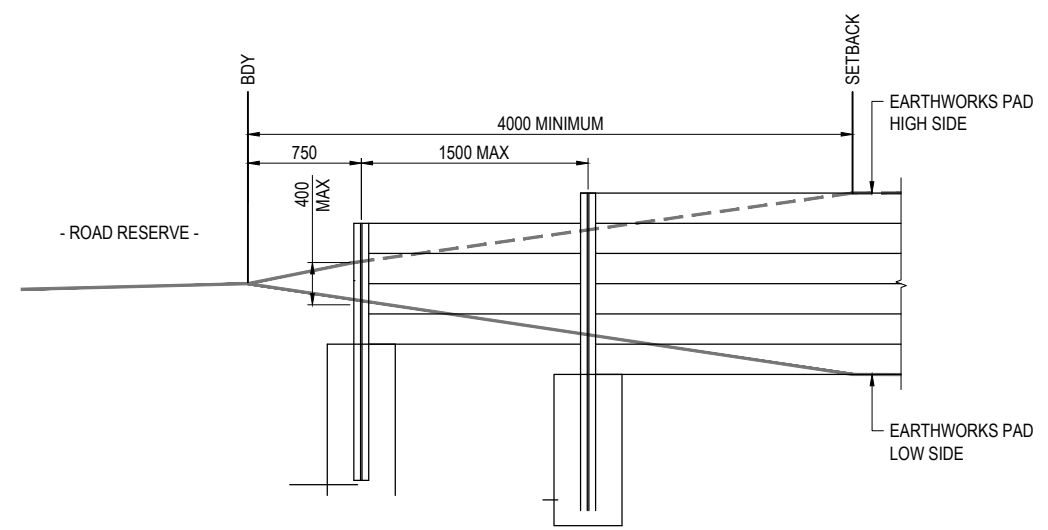
TYPICAL STEP BETWEEN LOTS DETAIL
SCALE 1:50 (A1)
SCALE 1:100 (A3)



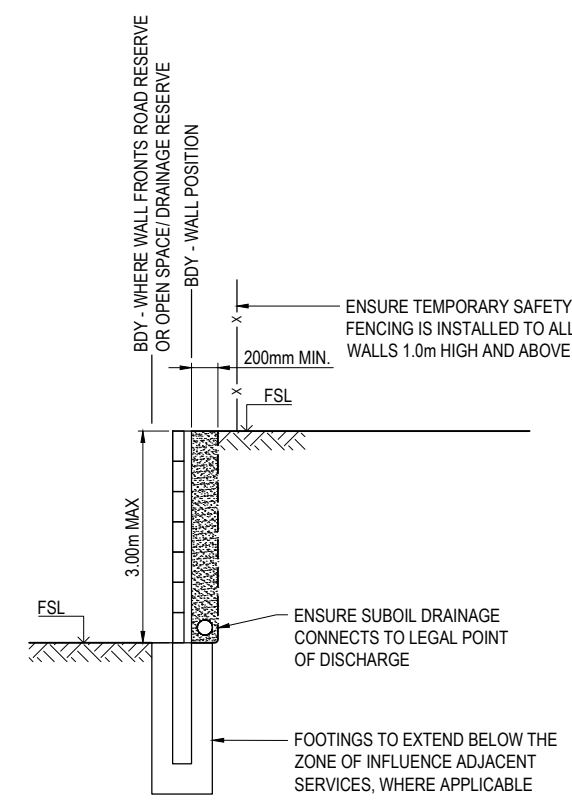
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SCALE 1:200 (A3)



SECTION F
SCALE 1:100 (A1)
SCALE 1:200 (A3)



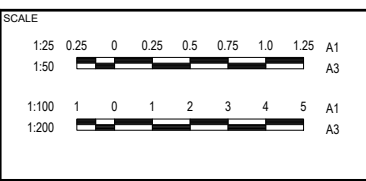
TYPICAL RETAINING WALL TAPER DETAIL
SCALE 1:25 (A1)



CONCRETE SLEEPER RETAINING WALL TYPICAL DETAIL
SCALE 1:25 (A1)

REV	DATE	DESIGN	DRAWN	REVISION DETAILS
A	28.10.22	KH	KH	ISSUED FOR CONSTRUCTION

DRAWN	STATUS
KH	ISSUED FOR CONSTRUCTION
DESIGN	APPROVED
DB	DAN COLLINS RPEQ 18631



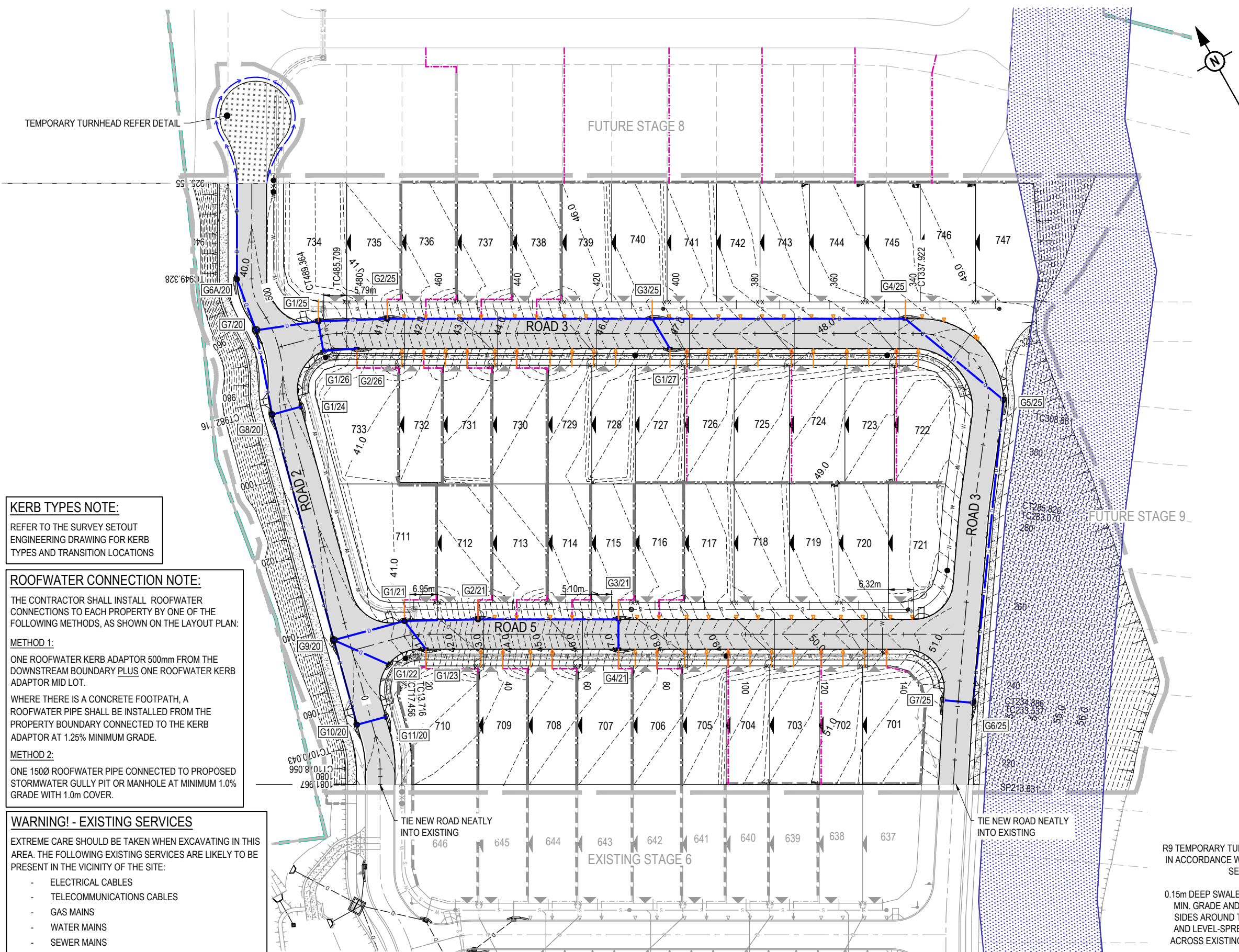
CLIENT
RIPLEY PROJECTS PTY LTD

ASSOCIATED CONSULTANT

PROJECT NAME
HAYFIELD STAGE 7

352 RIPLEY ROAD, RIPLEY QLD

DRAWING TITLE		
BULK EARTHWORKS TYPICAL SECTIONS		
PROJECT No.	DRAWING No.	REVISION
21-0024	103	A



LEGEND	
	PROPOSED AREA OF WORKS
	EPBC BOUNDARY
	PROPOSED ROAD CONTROL LINE
	EXISTING ROAD CROWN
	PROPOSED KERB INVERT LINE
	PROPOSED CONCRETE PATH AND PRAM RAMP
	PROPOSED NEW ROAD PAVEMENT
	INDICATIVE DRIVEWAY LOCATION
	ZERO LOT BOUNDARY
	PROPOSED SURFACE CONTOUR
	EXISTING SURFACE CONTOUR
	PROPOSED STORMWATER DRAINAGE PIPE
	EXISTING STORMWATER DRAINAGE PIPE
	PROPOSED DRAINAGE SWALE
	EXISTING DRAIN
	PROPOSED ROOFWATER KERB ADAPTOR
	PROPOSED ROOFWATER KERB ADAPTOR WITH PIPE CONNECTION TO ALLOTMENT
	PROPOSED SLEEPER RETAINING WALL
	RETAINING WALL SUBSOIL PIPE EXTENSION
	EXISTING SLEEPER RETAINING WALL
	FUTURE SLEEPER RETAINING WALL
	PROPOSED SEWERAGE MAIN
	EXISTING SEWERAGE MAIN
	PROPOSED WATER MAIN
	EXISTING WATER MAIN
	EXISTING TRUNK WATER MAIN
	PROPOSED WATER CONDUIT
	EXISTING ELECTRICAL CABLE U/G
	EXISTING ELECTRICAL CABLE O/H

KERB TYPES NOTE:
REFER TO THE SURVEY SETOUT ENGINEERING DRAWING FOR KERB TYPES AND TRANSITION LOCATIONS

ROOFWATER CONNECTION NOTE:
THE CONTRACTOR SHALL INSTALL ROOFWATER CONNECTIONS TO EACH PROPERTY BY ONE OF THE FOLLOWING METHODS, AS SHOWN ON THE LAYOUT PLAN:

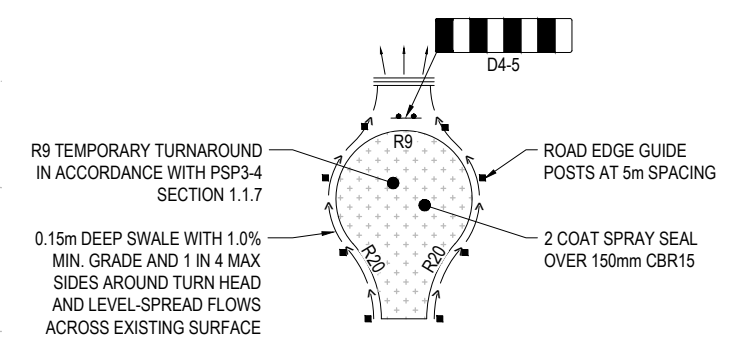
METHOD 1:
ONE ROOFWATER KERB ADAPTOR 500mm FROM THE DOWNSTREAM BOUNDARY PLUS ONE ROOFWATER KERB ADAPTOR MID LOT.
WHERE THERE IS A CONCRETE FOOTPATH, A ROOFWATER PIPE SHALL BE INSTALLED FROM THE PROPERTY BOUNDARY CONNECTED TO THE KERB ADAPTOR AT 1.25% MINIMUM GRADE.

METHOD 2:
ONE 150Ø ROOFWATER PIPE CONNECTED TO PROPOSED STORMWATER GULLY PIT OR MANHOLE AT MINIMUM 1.0% GRADE WITH 1.0m COVER.

WARNING! - EXISTING SERVICES
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- GAS MAINS
- WATER MAINS
- SEWER MAINS

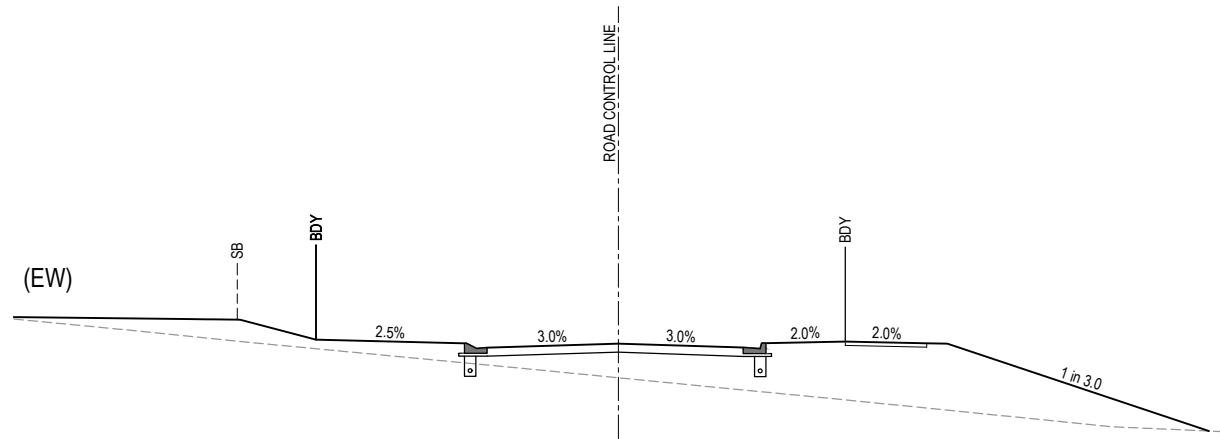
THE CONTRACTOR SHOULD CONTACT THE SERVICE PROVIDER FOR FURTHER INFORMATION AND SATISFY THEMSELVES OF ANY SPECIFIC TREATMENT OR REQUIREMENTS.



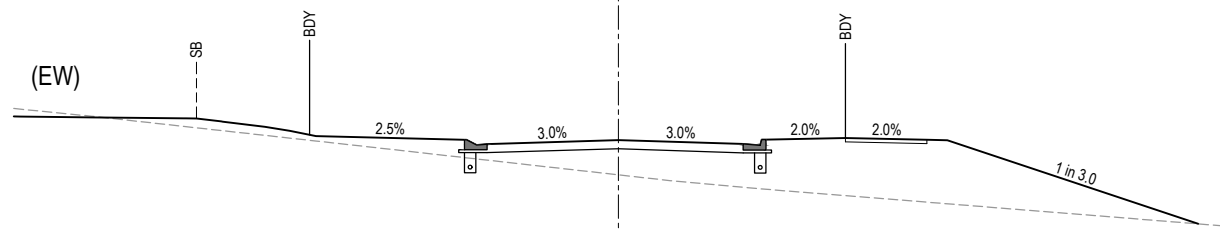
TYPICAL TEMPORARY TURNAROUND DETAIL (DOWNSLOPE)
N.T.S.

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A	28.10.22	KH	KH	ISSUED FOR CONSTRUCTION	KH	ISSUED FOR CONSTRUCTION	1:500 1:1000	RIPLEY PROJECTS PTY LTD	HAYFIELD STAGE 7	ROADWORKS AND DRAINAGE LAYOUT PLAN
					DESIGN	APPROVED				
					DB	DAN COLLINS				
					RPEQ 18631					
					FOR AND ON BEHALF OF PEAKURBAN PTY LTD		ENQUIRIES@PEAKURBAN.COM.AU		352 RIPLEY ROAD, RIPLEY QLD	
							ASSOCIATED CONSULTANT		PROJECT No. 21-0024	
									DRAWING No. 104	
									REVISION A	

(EW) REFER TO BULK EARTHWORKS DRAWING FOR LOT GRADING AND FINISHED SURFACE LEVELS
 SB DENOTES SETBACK LINE

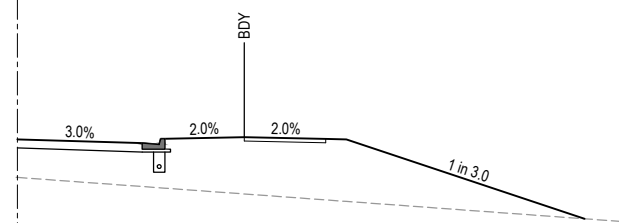


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CH 1000.000

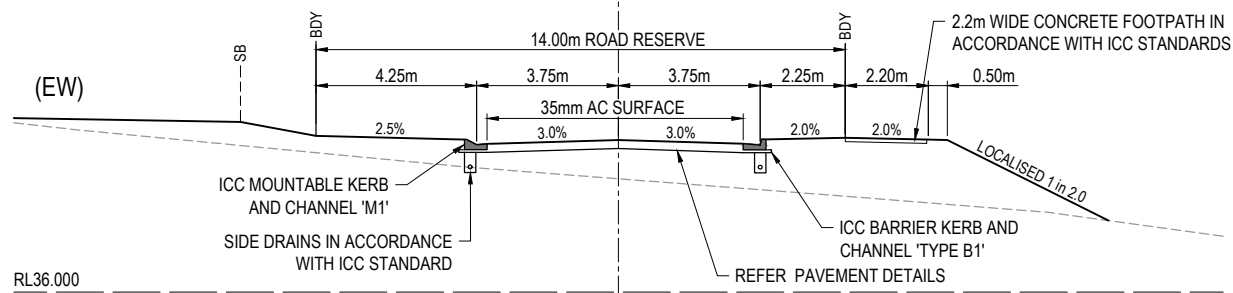


RL37.000
CH 980.000

- ROAD 3 INTERSECTION -

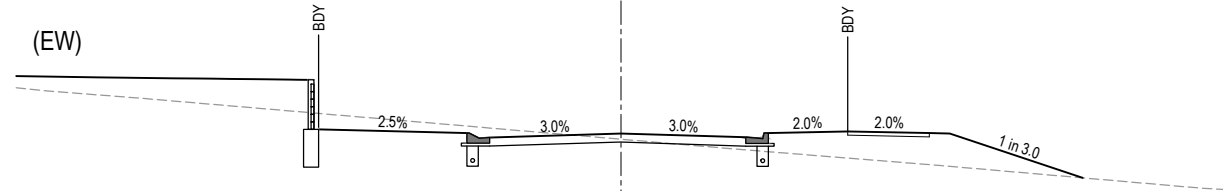


RL37.000
CH 960.000

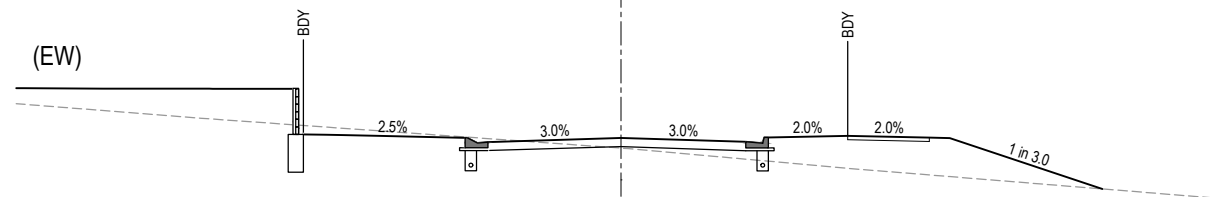


RL36.000
CH 940.000

ROAD 2

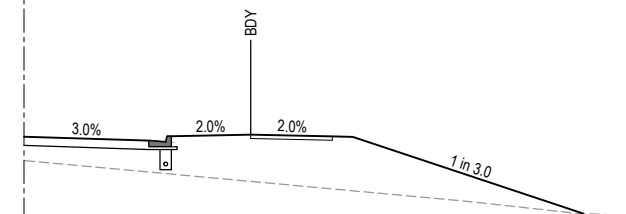


RL38.000
CH 1080.000

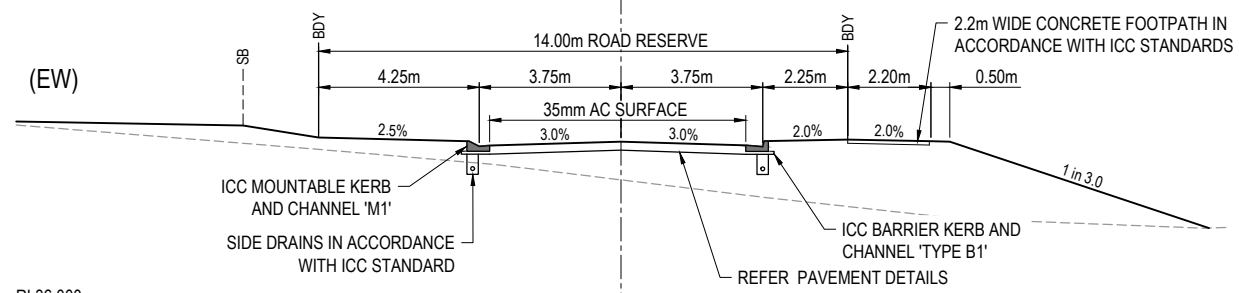


RL38.000
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- ROAD 5 INTERSECTION -



RL37.000
CH 1040.000



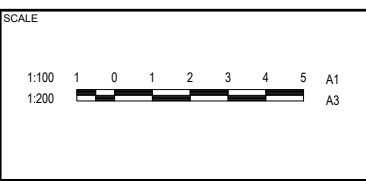
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CH 1020.000

ROAD 2

REV	DATE	DESIGN	DRAWN	REVISION DETAILS
A	28.10.22	KH	KH	ISSUED FOR CONSTRUCTION

DRAWN	STATUS
KH	ISSUED FOR CONSTRUCTION
DESIGN	APPROVED
DB	DAN COLLINS RPEQ 18631

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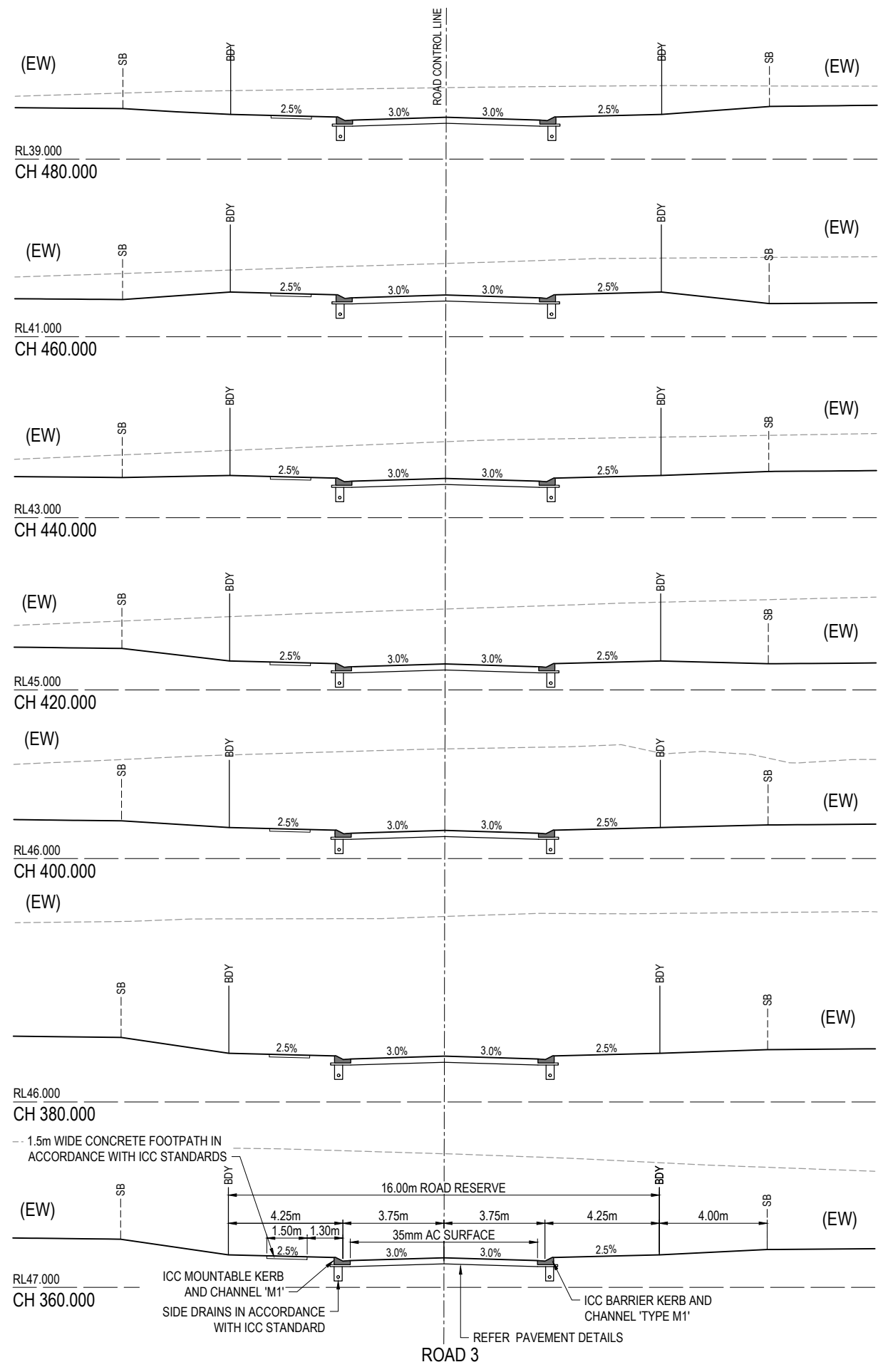
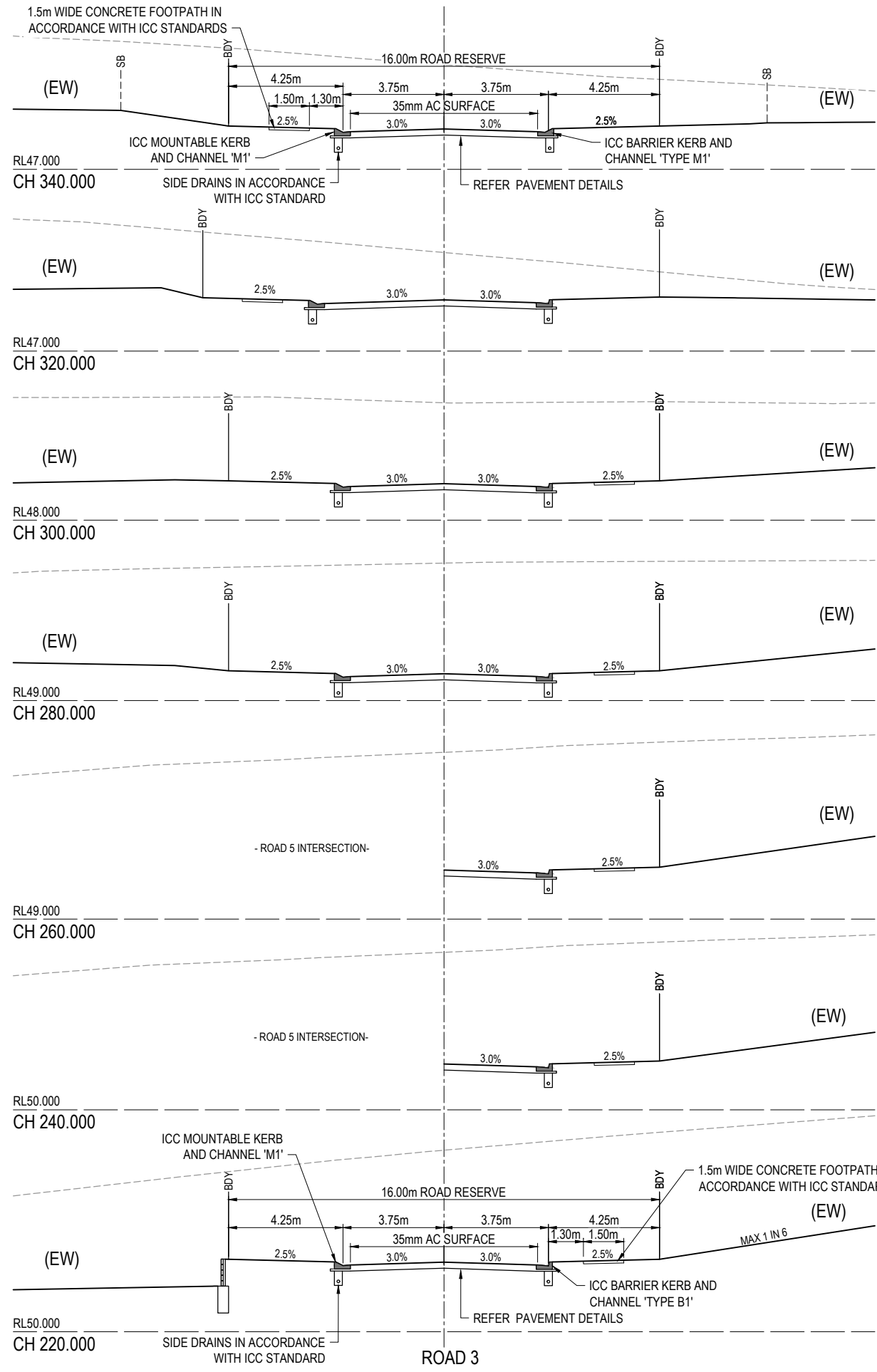


CLIENT
RIPLEY PROJECTS PTY LTD
 ASSOCIATED CONSULTANT

PROJECT NAME
HAYFIELD STAGE 7
 352 RIPLEY ROAD, RIPLEY QLD

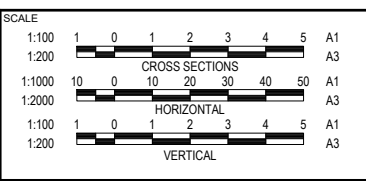
DRAWING TITLE		
ROAD 2 CROSS SECTIONS		
PROJECT No.	DRAWING No.	REVISION
21-0024	107	A

(EW) REFER TO BULK EARTHWORKS DRAWING FOR LOT GRADING AND FINISHED SURFACE LEVELS
SB DENOTES SETBACK LINE



REV	DATE	DESIGN	DRAWN	REVISION DETAILS
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DRAWN	STATUS
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DESIGN	APPROVED
DB	DAN COLLINS RPEQ 18631



CLIENT
RIPLEY PROJECTS PTY LTD
ASSOCIATED CONSULTANT

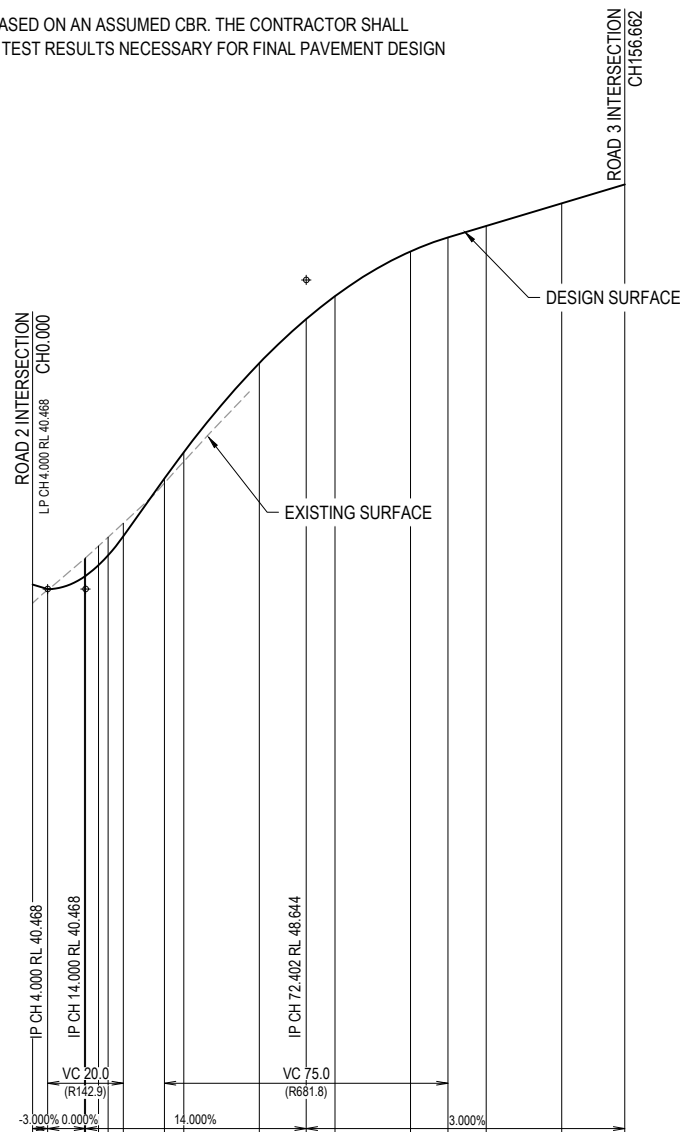
PROJECT NAME
HAYFIELD STAGE 7
352 RIPLEY ROAD, RIPLEY QLD

DRAWING TITLE		
ROAD 3 CROSS SECTIONS		
PROJECT No.	DRAWING No.	REVISION
21-0024	109	A

ASSUMED PAVEMENT DETAILS (SUBJECT TO CBR TESTING)

ROAD	ROAD CLASSIFICATION	DESIGN ESAs	ASSUMED CBR	SURFACING	BASE	SUB BASE	LOWER SUB BASE	TOTAL DEPTH
ROAD 5	ACCESS STREET	1.0 x 10 ⁵	3	35mm	125mm	100mm	170mm	430mm

NOTE: THIS PAVEMENT DESIGN IS PRELIMINARY ONLY BASED ON AN ASSUMED CBR. THE CONTRACTOR SHALL SUPPLY THE SUPERINTENDENT WITH SUBGRADE TEST RESULTS NECESSARY FOR FINAL PAVEMENT DESIGN

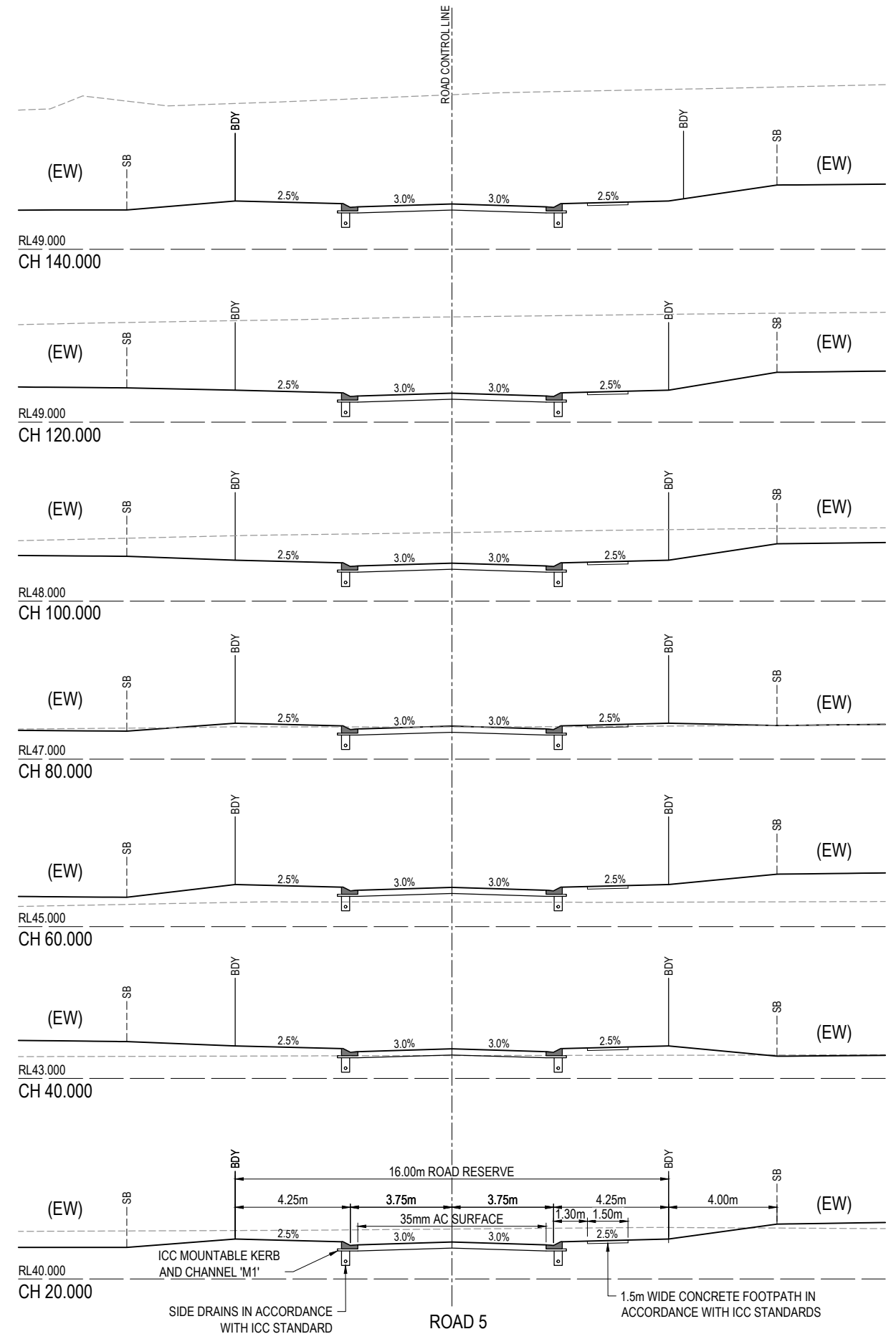


DATUM RL 25.0

	0.000	4.000	13.716	17.456	20.000	24.000	34.902	40.000	60.000	72.402	80.000	100.000	109.902	120.000	140.000	156.662
CUT (-) / FILL		0.516	0.051	-0.341	-0.343	-0.326	-0.298	-0.195	0.382	0.542	0.244	-1.129	-1.892	-2.813	-4.031	-4.487
LHS LIP LEVEL																
RHS LIP LEVEL																
DESIGN SURFACE	40.072	40.468	40.798	41.102	41.364	41.868	43.290	44.089	46.446	47.613	48.216	49.400	49.769	50.072	50.672	51.172
EXISTING SURFACE	40.072	40.417	41.140	41.161	41.260	41.764	43.290	44.089	45.904	47.369	48.188	50.529	51.661	52.865	54.703	55.659
CHAINAGES	0.000	4.000	13.716	17.456	20.000	24.000	34.902	40.000	60.000	72.402	80.000	100.000	109.902	120.000	140.000	156.662
HORIZONTAL CURVES	R14.000															

REFER KERB RETURN LONGITUDINAL SECTIONS FOR LIP LEVELS

ROAD 5



REV	DATE	DESIGN	DRAWN	REVISION DETAILS
A	28.10.22	KH	KH	ISSUED FOR CONSTRUCTION

DRAWN	STATUS
KH	ISSUED FOR CONSTRUCTION
DESIGN	APPROVED
DB	DAN COLLINS RPEQ 18631

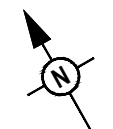
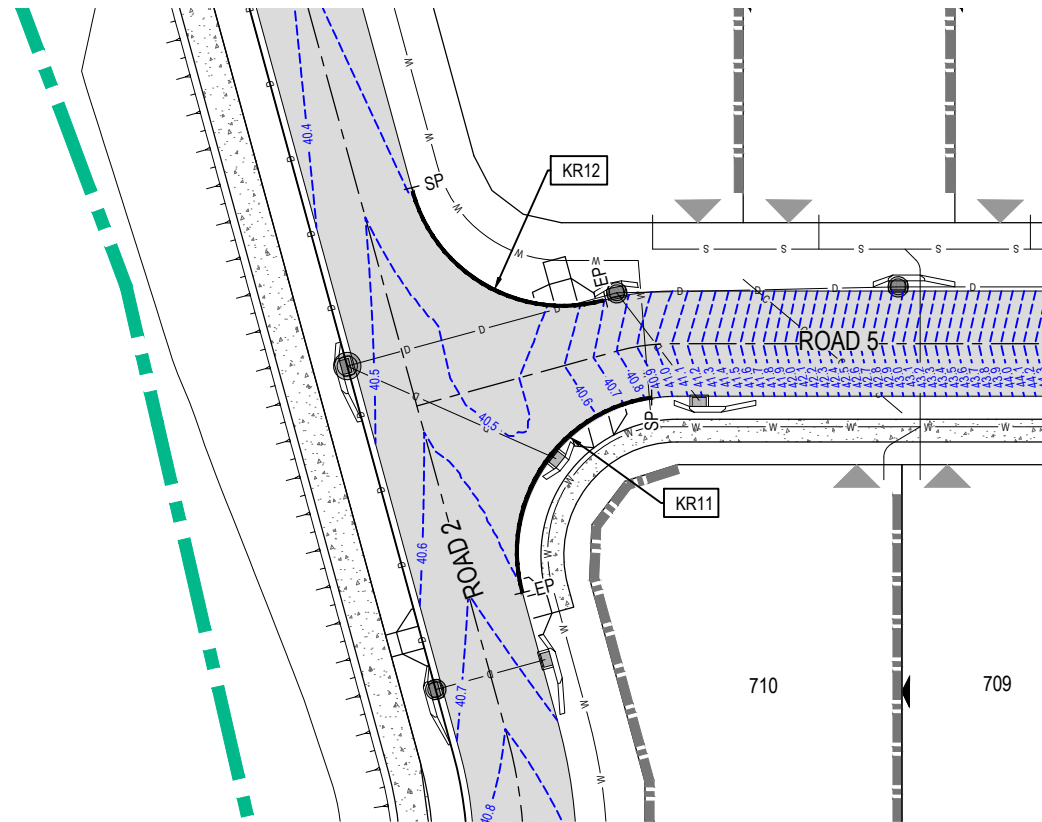
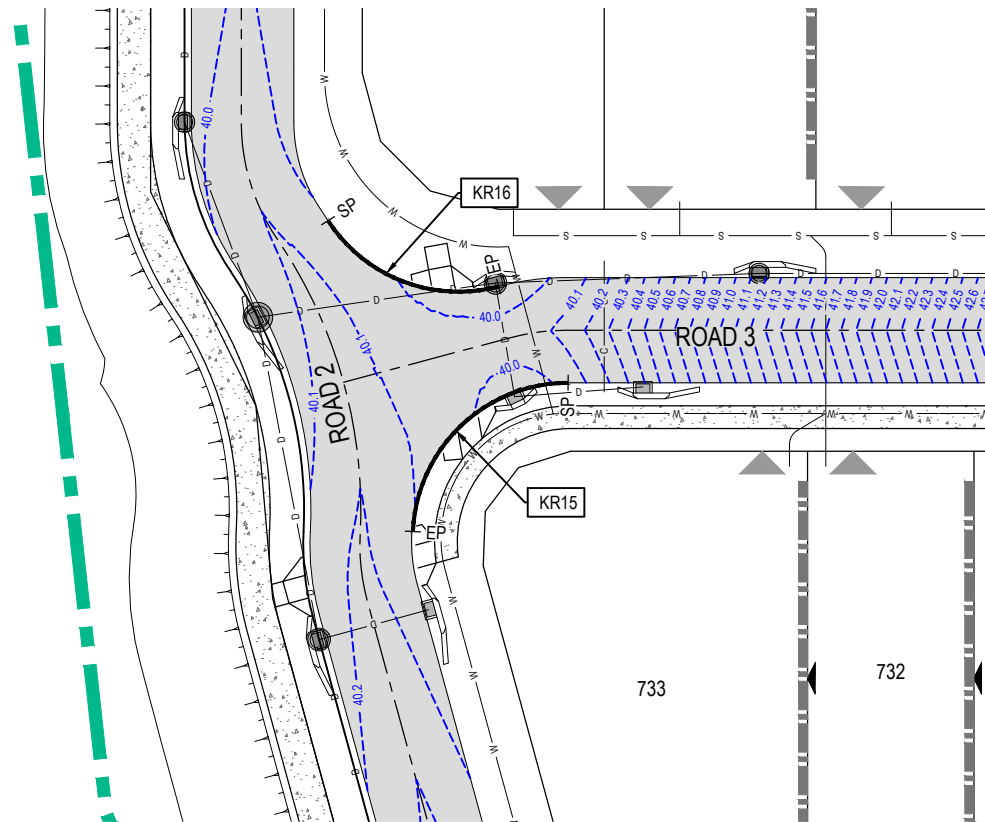
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SCALE	CROSS SECTIONS	HORIZONTAL	VERTICAL
1:100	1 0 1 2 3 4 5	A1	
1:200	10 0 10 20 30 40 50	A3	
1:100	1 0 1 2 3 4 5	A1	
1:200	1 0 1 2 3 4 5	A3	

CLIENT
RIPLEY PROJECTS PTY LTD
ASSOCIATED CONSULTANT

PROJECT NAME
HAYFIELD STAGE 7
352 RIPLEY ROAD, RIPLEY QLD

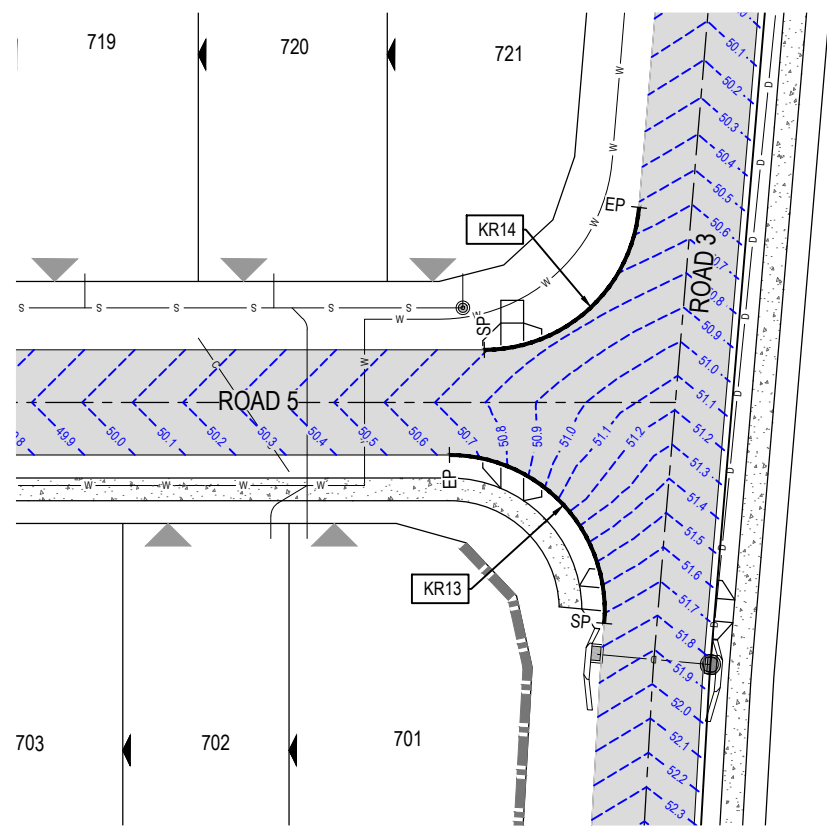
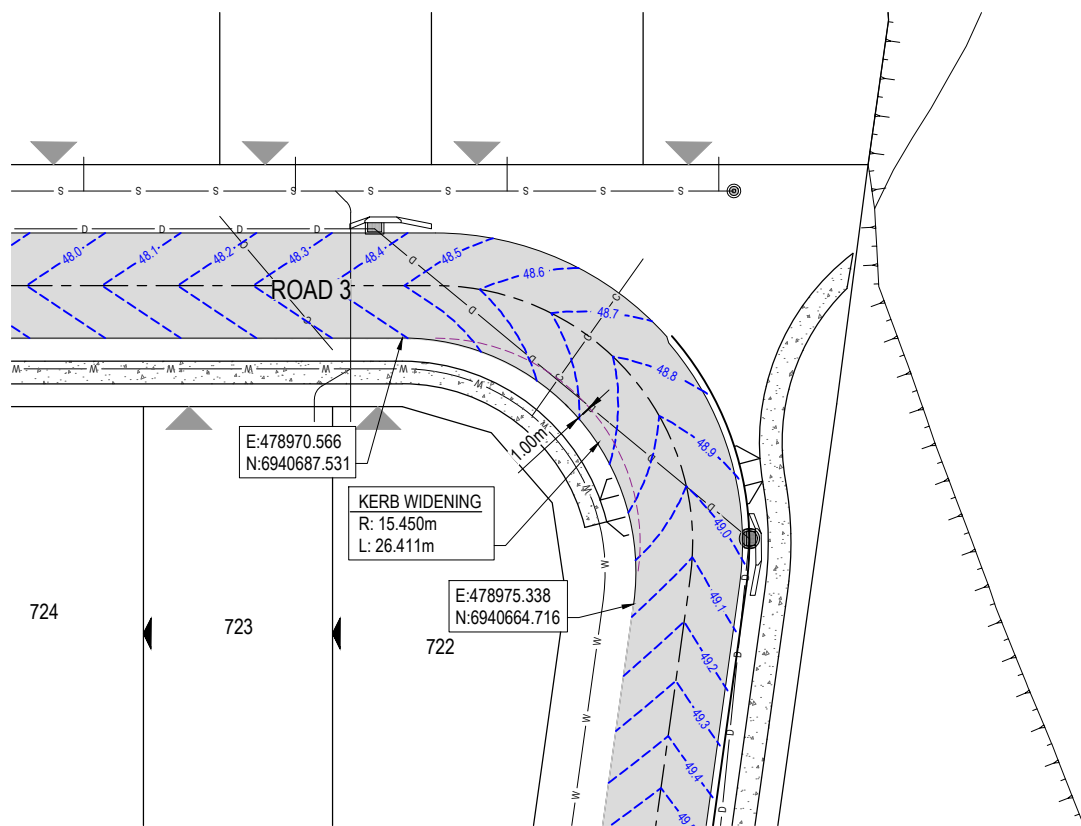
DRAWING TITLE		
ROAD 5 LONGITUDINAL SECTION AND CROSS SECTIONS		
PROJECT No. 21-0024	DRAWING No. 110	REVISION A



LEGEND

- PROPOSED ROAD CONTROL LINE
- PROPOSED ROAD LIP OF KERB
- PROPOSED CONCRETE PATH AND PRAM RAMP
- PROPOSED NEW ROAD PAVEMENT
- INDICATIVE DRIVEWAY LOCATION
- PROPOSED PAVEMENT CONTOUR (0.1m INTERVAL)
- PROPOSED KERB SETOUT LINE
- SP — PROPOSED KERB SETOUT START POINT
- TP — PROPOSED KERB SETOUT TANGENT POINT
- EP — PROPOSED KERB SETOUT END POINT
- PROPOSED SLEEPER RETAINING WALL
- PROPOSED SEWERAGE MAIN
- EXISTING SEWERAGE MAIN
- PROPOSED WATER MAIN
- EXISTING WATER MAIN
- PROPOSED WATER CONDUIT

NOTE:
REFER DRG. 112 FOR KERB LONGITUDINAL SECTIONS



REV	DATE	DESIGN	DRAWN	REVISION DETAILS	DRAWN	STATUS		SCALE	CLIENT	PROJECT NAME	DRAWING TITLE
A	28.10.22	KH	KH	ISSUED FOR CONSTRUCTION	KH	ISSUED FOR CONSTRUCTION		1:250 1:500	RIPLEY PROJECTS PTY LTD	HAYFIELD STAGE 7	INTERSECTION DETAILS LAYOUT PLAN
					DB	APPROVED DAN COLLINS RPEQ 18631			ASSOCIATED CONSULTANT	352 RIPLEY ROAD, RIPLEY QLD	PROJECT No. 21-0024
						FOR AND ON BEHALF OF PEAKURBAN PTY LTD					DRAWING No. 111
											REVISION A

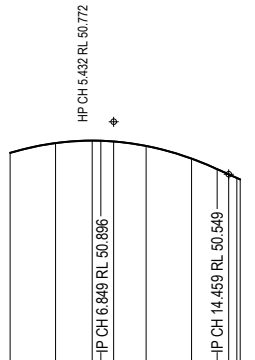


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DATUM RL 39.0

LIP LEVEL	NORTHING	EASTING	CHAINAGES	HORIZONTAL CURVES
40.835	6940682.634	478823.301	0.000	R-10.275
40.638	6940683.319	478820.391	3.000	
40.578	6940683.343	478819.011	4.381	
40.534	6940683.137	478817.407	6.000	
40.516	6940682.597	478815.642	7.848	
40.520	6940682.215	478814.513	8.762	
40.523	6940682.103	478814.602	9.000	
40.551	6940680.306	478812.213	12.000	
40.562	6940679.451	478811.457	13.142	
40.581	6940677.898	478810.443	15.000	
40.606	6940675.547	478809.544	17.523	

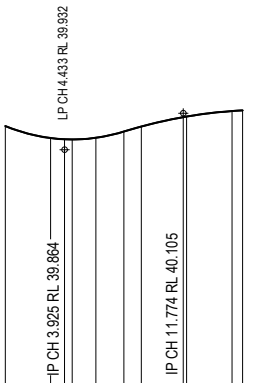
KR11



DATUM RL 39.0

LIP LEVEL	NORTHING	EASTING	CHAINAGES	HORIZONTAL CURVES
40.396	6940702.245	478816.144	0.000	R-10.275
40.409	6940699.270	478815.656	3.000	
40.412	6940698.244	478815.959	4.032	
40.417	6940696.337	478816.437	6.000	
40.419	6940694.475	478817.319	8.064	
40.423	6940693.696	478817.638	9.000	
40.466	6940691.570	478819.939	12.000	
40.489	6940691.513	478820.016	12.096	
40.624	6940690.139	478822.564	15.000	
40.695	6940689.808	478823.641	16.128	

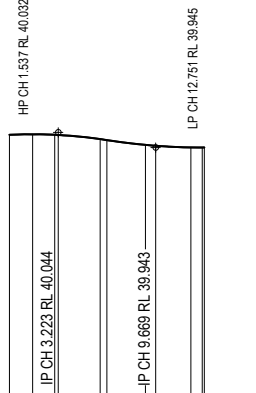
KR12



DATUM RL 49.0

LIP LEVEL	NORTHING	EASTING	CHAINAGES	HORIZONTAL CURVES
51.730	6940606.717	478936.432	0.000	R-10.275
51.572	6940609.405	478937.740	3.000	
51.490	6940610.631	478938.048	4.265	
51.362	6940612.356	478938.220	6.000	
51.143	6940614.865	478937.948	8.530	
51.100	6940615.319	478937.530	9.000	
50.864	6940618.045	478936.003	12.000	
50.812	6940616.698	478936.149	12.795	
50.684	6940620.303	478934.643	15.000	
50.617	6940621.481	478932.957	17.060	

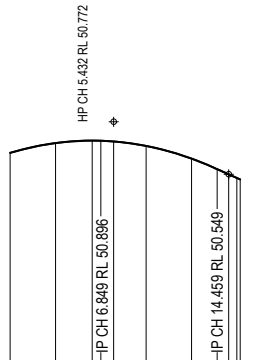
KR13



DATUM RL 49.0

LIP LEVEL	NORTHING	EASTING	CHAINAGES	HORIZONTAL CURVES
50.691	6940626.344	478938.502	0.000	R-10.275
50.756	6940625.281	478941.296	3.000	
50.772	6940625.041	478943.711	5.432	
50.771	6940625.068	478944.278	6.000	
50.767	6940625.166	478945.121	6.849	
50.737	6940625.721	478947.195	9.000	
50.653	6940627.187	478949.800	12.000	
50.563	6940628.332	478951.051	13.698	
50.549	6940628.909	478951.547	14.459	
50.525	6940629.341	478951.873	15.000	
50.515	6940629.521	478951.999	15.220	

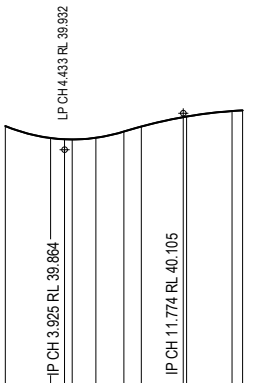
KR14



DATUM RL 38.0

LIP LEVEL	NORTHING	EASTING	CHAINAGES	HORIZONTAL CURVES
40.020	6940758.466	478943.580	0.000	R-10.275
39.941	6940759.529	478940.786	3.000	
39.933	6940759.688	478939.876	3.925	
39.932	6940759.740	478939.370	4.433	
39.943	6940759.743	478937.805	6.000	
39.984	6940759.440	478935.982	7.850	
40.017	6940759.089	478934.888	9.000	
40.079	6940757.759	478932.462	11.774	
40.083	6940757.623	478932.282	12.000	
40.120	6940755.470	478930.209	15.000	
40.124	6940754.887	478929.822	15.699	

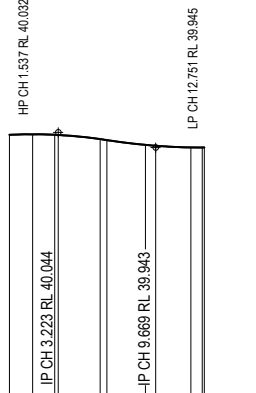
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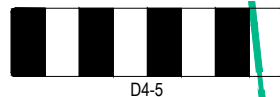
DATUM RL 38.0

LIP LEVEL	NORTHING	EASTING	CHAINAGES	HORIZONTAL CURVES
40.029	6940775.549	478934.947	0.000	R-10.275
40.032	6940774.029	478935.162	1.537	
40.029	6940772.627	478935.576	3.000	
40.028	6940772.419	478935.657	3.223	
40.001	6940770.009	478937.020	6.000	
39.994	6940769.660	478937.298	6.446	
39.962	6940767.918	478939.156	9.000	
39.956	6940767.543	478939.710	9.669	
39.945	6940766.530	478941.804	12.000	
39.945	6940766.308	478942.521	12.751	
39.945	6940766.272	478942.658	12.892	

KR16



<table border="1"> <thead> <tr> <th>REV</th> <th>DATE</th> <th>DESIGN</th> <th>DRAWN</th> <th>REVISION DETAILS</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>28.10.22</td> <td>KH</td> <td>KH</td> <td>ISSUED FOR CONSTRUCTION</td> </tr> </tbody> </table>	REV	DATE	DESIGN	DRAWN	REVISION DETAILS	A	28.10.22	KH	KH	ISSUED FOR CONSTRUCTION	<table border="1"> <thead> <tr> <th>DRAWN</th> <th>STATUS</th> </tr> </thead> <tbody> <tr> <td>KH</td> <td>ISSUED FOR CONSTRUCTION</td> </tr> </tbody> </table>	DRAWN	STATUS	KH	ISSUED FOR CONSTRUCTION	<p>ENQUIRIES@PEAKURBAN.COM.AU</p>	<table border="1"> <thead> <tr> <th>SCALE</th> </tr> </thead> <tbody> <tr> <td>1:250 0 5 10 A1</td> </tr> <tr> <td>1:500 0 5 10 A3</td> </tr> <tr> <td colspan="2">HORIZONTAL</td> </tr> <tr> <td>1:25 0 0.25 0.5 0.75 1 1.25 A1</td> </tr> <tr> <td>1:50 0 0.25 0.5 0.75 1 1.25 A3</td> </tr> <tr> <td colspan="2">VERTICAL</td> </tr> </tbody> </table>	SCALE	1:250 0 5 10 A1	1:500 0 5 10 A3	HORIZONTAL		1:25 0 0.25 0.5 0.75 1 1.25 A1	1:50 0 0.25 0.5 0.75 1 1.25 A3	VERTICAL		<table border="1"> <thead> <tr> <th>CLIENT</th> </tr> </thead> <tbody> <tr> <td> <p>RIPLEY PROJECTS PTY LTD</p> </td> </tr> </tbody> </table>	CLIENT	<p>RIPLEY PROJECTS PTY LTD</p>	<table border="1"> <thead> <tr> <th>PROJECT NAME</th> </tr> </thead> <tbody> <tr> <td> <p>HAYFIELD STAGE 7</p> </td> </tr> </tbody> </table>	PROJECT NAME	<p>HAYFIELD STAGE 7</p>	<table border="1"> <thead> <tr> <th>DRAWING TITLE</th> </tr> </thead> <tbody> <tr> <td> <p>KERB RETURN LONGITUDINAL SECTION</p> </td> </tr> </tbody> </table>	DRAWING TITLE	<p>KERB RETURN LONGITUDINAL SECTION</p>
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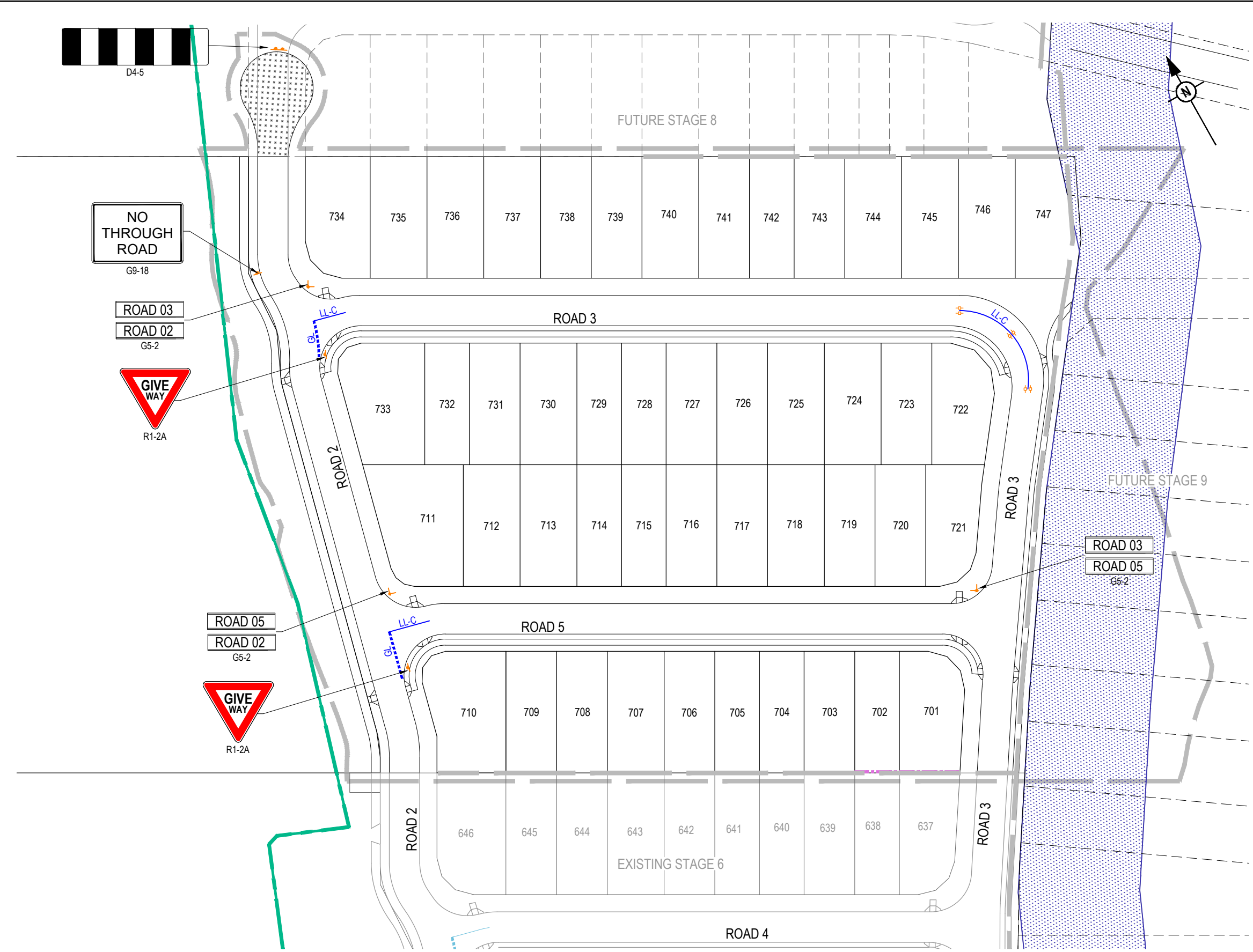


LEGEND

- PROPOSED AREA OF WORKS
- PROPOSED STREET NAME SIGN
- PROPOSED ROAD SIGN
- EXISTING STREET NAME SIGN
- EXISTING ROAD SIGN
- PROPOSED RRPM - WHITE - BIDIRECTIONAL
- LL-C
- PROPOSED LANE LINE - CONTINUOUS
- EXISTING LINEMARKING (LINETYPES AS PER PROPOSED)

NOTES:

1. ALL SIGNS AND LINEMARKING SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND (IPSWICH CITY COUNCIL) STANDARDS.
2. TRAFFIC SIGN POSTS SHALL BE IN ACCORDANCE WITH (IPSWICH CITY COUNCIL) STANDARD DRAWINGS.
3. STREET NAME SIGN SHALL BE IN ACCORDANCE WITH (IPSWICH CITY COUNCIL) STANDARD DRAWINGS.
4. CONTRACTOR TO ENSURE SIGN LOCATIONS ARE CLEAR OF FUTURE DRIVEWAY LOCATIONS - LOCATE ON PB OR MID BLOCK.



REV	DATE	DESIGN	DRAWN	REVISION DETAILS
A	28.10.22	KH	KH	ISSUED FOR CONSTRUCTION

DRAWN	STATUS
KH	ISSUED FOR CONSTRUCTION
DESIGN	APPROVED
DB	DAN COLLINS RPEQ 18631
FOR AND ON BEHALF OF PEAKURBAN PTY LTD	



SCALE
1:500 10 5 0 10 20 A1
1:1000

CLIENT	PROJECT NAME
RIPLEY PROJECTS PTY LTD	HAYFIELD STAGE 7
ASSOCIATED CONSULTANT	352 RIPLEY ROAD, RIPLEY QLD

DRAWING TITLE
SIGNS AND LINEMARKING LAYOUT PLAN
PROJECT No.
21-0024

DRAWING No.	REVISION
113	A



LEGEND




1	CATCHMENT NAME
	CATCHMENT BOUNDARY
	PROPOSED STORMWATER DRAINAGE PIPE
	EXISTING STORMWATER DRAINAGE PIPE
	PROPOSED ROOFWATER DRAINAGE PIPE
	EXISTING ROOFWATER DRAINAGE PIPE
	PROPOSED SWALE DRAIN
	EXISTING SWALE DRAIN
	PROPOSED SURFACE CONTOUR
	EXISTING SURFACE CONTOUR
	CATCHMENT FLOW DIRECTION ARROW

CATCHMENT TABLE

CATCHMENT	AREA (ha)
6/20	0.0281
6A/20	0.0082
7/20	0.0132
8/20	0.0355
9/20	0.0133
10/20	0.0218
11/20	0.0417
1/21	0.0573
2/21	0.1364
3/21	0.2950
4/21	0.2982
1/22	0.0794
1/23	0.1559
1/24	0.1185
1/25	0.0690
2/25	0.2546
3/25	0.2432
4/25	0.1358
5/25	0.1629
6/25	0.3374
7/25	0.0400
1/26	0.0794
2/26	0.2793
1/27	0.3162
1/28	0.0895

<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>REV</th> <th>DATE</th> <th>DESIGN</th> <th>DRAWN</th> <th>REVISION DETAILS</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>28.10.22</td> <td>KH</td> <td>KH</td> <td>ISSUED FOR CONSTRUCTION</td> </tr> </tbody> </table>	REV	DATE	DESIGN	DRAWN	REVISION DETAILS	A	28.10.22	KH	KH	ISSUED FOR CONSTRUCTION	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">DRAWN: KH</td> <td style="width: 50%;">STATUS: ISSUED FOR CONSTRUCTION</td> </tr> <tr> <td>DESIGN: DB</td> <td>APPROVED: DAN COLLINS RPEQ 18631</td> </tr> <tr> <td colspan="2" style="text-align: center;">FOR AND ON BEHALF OF PEAKURBAN PTY LTD</td> </tr> </table> </td> <td style="width: 50%; text-align: center;"> <p>ENQUIRIES@PEAKURBAN.COM.AU</p> </td> </tr> </table>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">DRAWN: KH</td> <td style="width: 50%;">STATUS: ISSUED FOR CONSTRUCTION</td> </tr> <tr> <td>DESIGN: DB</td> <td>APPROVED: DAN COLLINS RPEQ 18631</td> </tr> <tr> <td colspan="2" style="text-align: center;">FOR AND ON BEHALF OF PEAKURBAN PTY LTD</td> </tr> </table>	DRAWN: KH	STATUS: ISSUED FOR CONSTRUCTION	DESIGN: DB	APPROVED: DAN COLLINS RPEQ 18631	FOR AND ON BEHALF OF PEAKURBAN PTY LTD		<p>ENQUIRIES@PEAKURBAN.COM.AU</p>	<p>SCALE</p> <p>1:500 10 5 0 10 20 A1</p> <p>1:1000</p>	<p>CLIENT</p> <p>RIPLEY PROJECTS PTY LTD</p> <p>ASSOCIATED CONSULTANT</p>	<p>PROJECT NAME</p> <p>HAYFIELD STAGE 7</p> <p>352 RIPLEY ROAD, RIPLEY QLD</p>	<p>DRAWING TITLE</p> <p>STORMWATER DRAINAGE CATCHMENT LAYOUT PLAN</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>PROJECT No.</td> <td>DRAWING No.</td> <td>REVISION</td> </tr> <tr> <td style="text-align: center;">21-0024</td> <td style="text-align: center;">114</td> <td style="text-align: center;">A</td> </tr> </table>	PROJECT No.	DRAWING No.	REVISION	21-0024	114	A
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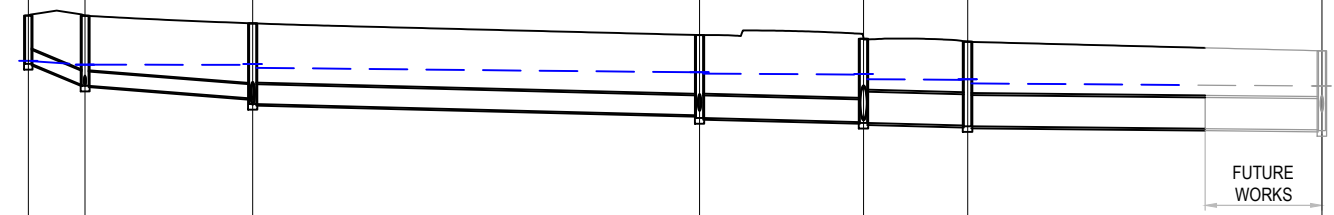
STRUCTURE SETOUT REFERENCE POINT

STRUCTURE TYPE	HORIZONTAL	VERTICAL
MANHOLE	 MAIN SHAFT	FINISHED SURFACE LEVEL
GULLY PIT	 INTERSECTION OF PIT AND KERB INVERT LNE # (INCLUDING MANHOLES UNDER GULLIES)	KERB INVERT LEVEL
HEADWALL	 INTERSECTION OF HEADWALL FACE & PIPE CENTRE LINE	TOP OF HEADWALL

NOTE:
WITHIN GULLY PIT CHAMBER, CONTRACTOR TO ENSURE STORMWATER PIPES ARE OFFSET AS REQUIRED SO THAT PIPES ENTER WHOLLY WITHIN A SIDE WALL

STRUCTURE NAME	G11/20	G10/20	G9/20	G8/20	G7/20	G6A/20	G6/20
STRUCTURE DESCRIPTION	STD TYPE A GULLY LIL: 2.4m LINTEL; TYPE S	STD TYPE A GULLY LIL: 2.4m LINTEL; TYPE S ON AT 1050DIA MANHOLE	STD TYPE A GULLY LIL: 2.4m LINTEL; TYPE S ON AT 1350DIA MANHOLE	STD TYPE A GULLY LIL: 2.4m LINTEL; TYPE S ON AT 1350DIA MANHOLE	STD TYPE A GULLY LIL: 2.4m LINTEL; TYPE S ON AT 1500DIA MANHOLE	STD TYPE A GULLY LIL: 2.4m LINTEL; TYPE S ON AT 1050DIA MANHOLE	STD TYPE A GULLY LIL: 2.4m LINTEL; TYPE S ON AT 1350DIA MANHOLE

STORMWATER STRUCTURE NOTE:
STANDARD ROUND MANHOLES LESS THAN 3.0m DEEP:
CONSTRUCT IN ACCORDANCE WITH THE LOCAL AUTHORITY STANDARDS.
STANDARD ROUND MANHOLES 3.0m > 5.3m DEEP:
CONSTRUCT IN ACCORDANCE WITH TMR STD DRAWINGS 1307 AND 1308.
STANDARD ROUND MANHOLES GREATER THAN 5.3m DEEP:
SHALL BE STRUCTURALLY DESIGNED (CERTIFIED) AND CONSTRUCTED BY CONTRACTOR ON A CASE BY CASE BASIS.
ROUND EXTENDED (900mm MAX) MANHOLES:
CONSTRUCT IN ACCORDANCE WITH PEAK URBAN STD DRAWINGS S-101 & S-102.
RECTANGULAR STRUCTURE (SPECIAL):
SHALL BE STRUCTURALLY DESIGNED (CERTIFIED) AND CONSTRUCTED BY CONTRACTOR ON A CASE BY CASE BASIS.



PIPE SIZE (mm)	375	375	525	600	825	825
PIPE CLASS	3	3	3	3	3	3
PIPE GRADE (%)	7.44%	1.50%	0.50%	0.50%	0.50%	0.20%
PIPE SLOPE (1 in X)	13.43	66.67	200.00	200.00	200.00	500.00
FULL PIPE VELOCITY (m/s)	0.10	0.15	0.89	0.76	1.05	1.05
PART FULL VELOCITY (m/s)	1.80	1.16	1.49	1.53	1.95	1.35
DATUM RL	24.0					
H.G.L IN PIPE & W.S.E IN STRUCTURE	39.428	39.423	39.330	39.330	39.327	39.325
			39.344	39.244	39.126	39.131
					39.093	39.082
					38.945	38.924
					38.943	38.834
						38.763
						38.765
						38.743
PIPE FLOW (Cumecs)	0.011	0.017	0.192	0.216	0.560	0.559
DEPTH TO INVERT	1.281	1.832	1.965	2.119	2.207	2.090
		1.852	2.135	2.194	2.227	2.110
INVERT LEVEL OF DRAIN	39.348	38.790	38.437	37.992	37.808	37.605
		38.770	38.287	37.917	37.788	37.585
DESIGN SURFACE LEVEL	40.629	40.622	40.422	40.110	40.015	39.695
SETOUT COORDINATES	E 478808690 N 6940670947	E 478801409 N 6940672747	E 478806732 N 6940694279	E 478820921 N 6940751674	E 478827772 N 694072263	E 478829834 N 6940785876
RUNNING CHAINAGE	0.000	7.500	22.180	59.124	88.803	110.502
						124.271
						13.769
						46.860
						171.131

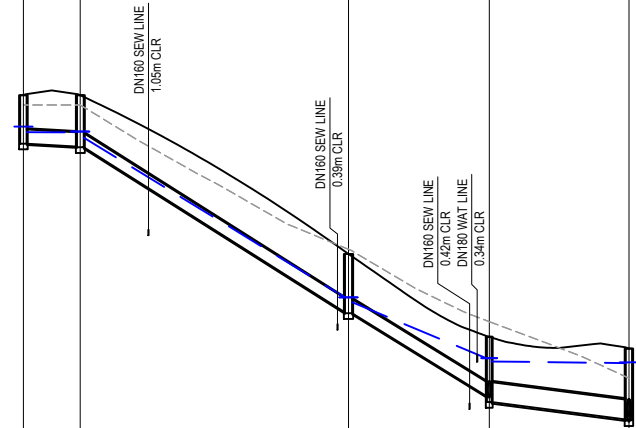
LINE

20

REV	DATE	DESIGN	DRAWN	REVISION DETAILS	DRAWN	STATUS	SCALE	CLIENT	PROJECT NAME	DRAWING TITLE	PROJECT No.	DRAWING No.	REVISION
A	28.10.22	KH	KH	ISSUED FOR CONSTRUCTION	KH	ISSUED FOR CONSTRUCTION	1:500 1:1000 HORIZONTAL 1:50 1:100 VERTICAL	RIPLY PROJECTS PTY LTD	HAYFIELD STAGE 7	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 1 OF 3	21-0024	115	A
					DB	APPROVED DAN COLLINS RPEQ 18631			352 RIPLEY ROAD, RIPLEY QLD				
						FOR AND ON BEHALF OF PEAKURBAN PTY LTD							
						ENQUIRIES@PEAKURBAN.COM.AU							

STRUCTURE NAME	4/21
STRUCTURE DESCRIPTION	STD TYPE A GULLY L.I.L.: 2.4m LINTEL; TYPE S
	3/21
	STD TYPE A GULLY L.I.L.: 2.4m LINTEL; TYPE S
	2/21
	STD TYPE A GULLY L.I.L.: 2.4m LINTEL; TYPE S ON AT 1050DIA MANHOLE
	1/21
	STD TYPE A ANTI-PONDING GULLY (SAG) ON AT 1050DIA MANHOLE
	9/20
	STD TYPE A GULLY L.I.L.: 2.4m LINTEL; TYPE S ON AT 1350DIA MANHOLE

STORMWATER STRUCTURE NOTE:
 STANDARD ROUND MANHOLES LESS THAN 3.0m DEEP:
 CONSTRUCT IN ACCORDANCE WITH THE LOCAL AUTHORITY STANDARDS.
 STANDARD ROUND MANHOLES 3.0m > 5.3m DEEP:
 CONSTRUCT IN ACCORDANCE WITH TMR STD DRAWINGS 1307 AND 1308.
 STANDARD ROUND MANHOLES GREATER THAN 5.3m DEEP:
 SHALL BE STRUCTURALLY DESIGNED (CERTIFIED) AND CONSTRUCTED BY CONTRACTOR ON A CASE BY CASE BASIS.
 ROUND EXTENDED (900mm MAX) MANHOLES:
 CONSTRUCT IN ACCORDANCE WITH PEAK URBAN STD DRAWINGS S-101 & S-102.
 RECTANGULAR STRUCTURE (SPECIAL):
 SHALL BE STRUCTURALLY DESIGNED (CERTIFIED) AND CONSTRUCTED BY CONTRACTOR ON A CASE BY CASE BASIS.



PIPE SIZE (mm)	375	375	375	525
PIPE CLASS	3	3	3	3
PIPE GRADE (%)	1.00%	12.31%	11.81%	2.50%
PIPE SLOPE (1 in X)	100.00	8.13	8.47	40.00
FULL PIPE VELOCITY (m/s)	0.55	1.09	1.41	0.96
PART FULL VELOCITY (m/s)	1.44	4.32	4.58	2.76
DATUM RL	30.0			
H.G.L IN PIPE & W.S.E IN STRUCTURE	46.293 46.144	46.141 46.164	46.003	41.776 41.779
PIPE FLOW (Cumecs)	0.061	0.120	0.156	0.209
DEPTH TO INVERT	1.281	1.356	1.376	1.548
INVERT LEVEL OF DRAIN	45.842	45.767	45.747	41.378
DESIGN SURFACE LEVEL	47.123	47.123		42.926
SETOUT COORDINATES	E 478868.436 N 6940657.210	E 478872.094 N 6940663.758		E 478841.102 N 6940681.071
RUNNING CHAINAGE	0.000	7.500	35.500	43.000

LINE 21

	1/22
	STD TYPE A ANTI-PONDING GULLY (SAG)
	9/20
	STD TYPE A GULLY L.I.L.: 2.4m LINTEL; TYPE S ON AT 1350DIA MANHOLE

LINE 22

	1/23
	STD TYPE A GULLY L.I.L.: 2.4m LINTEL; TYPE S
	1/21
	STD TYPE A ANTI-PONDING GULLY (SAG) ON AT 1050DIA MANHOLE

LINE 23

	1/24
	STD TYPE A GULLY L.I.L.: 2.4m LINTEL; TYPE S
	8/20
	STD TYPE A GULLY L.I.L.: 2.4m LINTEL; TYPE S ON AT 1350DIA MANHOLE

LINE 24

	2/26
	STD TYPE A GULLY L.I.L.: 2.4m LINTEL; TYPE S ON AT 1050DIA MANHOLE
	1/26
	STD TYPE A ANTI-PONDING GULLY (SAG) ON AT 1050DIA MANHOLE
	1/25
	STD TYPE A ANTI-PONDING GULLY (SAG) ON AT 1200DIA MANHOLE

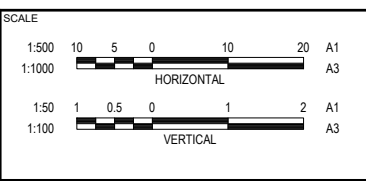
LINE 26

	1/27
	STD TYPE A GULLY L.I.L.: 2.4m LINTEL; TYPE S
	3/25
	STD TYPE A GULLY L.I.L.: 2.4m LINTEL; TYPE S

LINE 27

REV	DATE	DESIGN	DRAWN	REVISION DETAILS
A	28.10.22	KH	KH	ISSUED FOR CONSTRUCTION

DRAWN	STATUS
KH	ISSUED FOR CONSTRUCTION
DESIGN	APPROVED
DB	DAN COLLINS RPEQ 18631



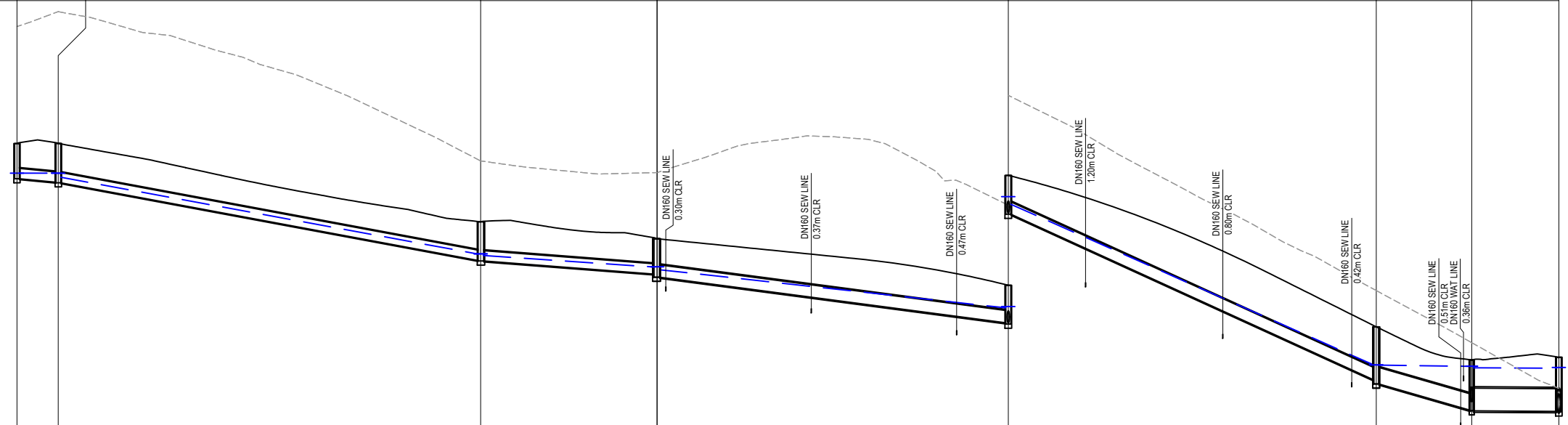
CLIENT
RIPLEY PROJECTS PTY LTD
 ASSOCIATED CONSULTANT

PROJECT NAME
HAYFIELD STAGE 7
 352 RIPLEY ROAD, RIPLEY QLD

DRAWING TITLE STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 2 OF 3		
PROJECT No. 21-0024	DRAWING No. 116	REVISION A

STRUCTURE NAME	7/25	6/25	5/25	4/25	3/25	2/25	1/25	7/20	
STRUCTURE DESCRIPTION	STD TYPE A GULLY LIL: 2.4m LINTEL; TYPE S	STD TYPE A GULLY LIL: 2.4m LINTEL; TYPE S	STD TYPE A GULLY LIL: 2.4m LINTEL; TYPE S	STD TYPE A GULLY LIL: 2.4m LINTEL; TYPE S	STD TYPE A GULLY LIL: 2.4m LINTEL; TYPE S	STD TYPE A GULLY LIL: 2.4m LINTEL; TYPE S	STD TYPE A GULLY LIL: 2.4m LINTEL; TYPE S ON AT 1050DIA MANHOLE	STD TYPE A ANTI-PONDING GULLY (SAG) ON AT 1200DIA MANHOLE	STD TYPE A GULLY LIL: 2.4m LINTEL; TYPE S ON AT 1500DIA MANHOLE

STORMWATER STRUCTURE NOTE:
 STANDARD ROUND MANHOLES LESS THAN 3.0m DEEP:
 CONSTRUCT IN ACCORDANCE WITH THE LOCAL AUTHORITY STANDARDS.
 STANDARD ROUND MANHOLES 3.0m > 5.3m DEEP:
 CONSTRUCT IN ACCORDANCE WITH TMR STD DRAWINGS 1307 AND 1308.
 STANDARD ROUND MANHOLES GREATER THAN 5.3m DEEP:
 SHALL BE STRUCTURALLY DESIGNED (CERTIFIED) AND CONSTRUCTED BY CONTRACTOR ON A CASE BY CASE BASIS.
 ROUND EXTENDED (900mm MAX) MANHOLES:
 CONSTRUCT IN ACCORDANCE WITH PEAK URBAN STD DRAWINGS S-101 & S-102.
 RECTANGULAR STRUCTURE (SPECIAL):
 SHALL BE STRUCTURALLY DESIGNED (CERTIFIED) AND CONSTRUCTED BY CONTRACTOR ON A CASE BY CASE BASIS.



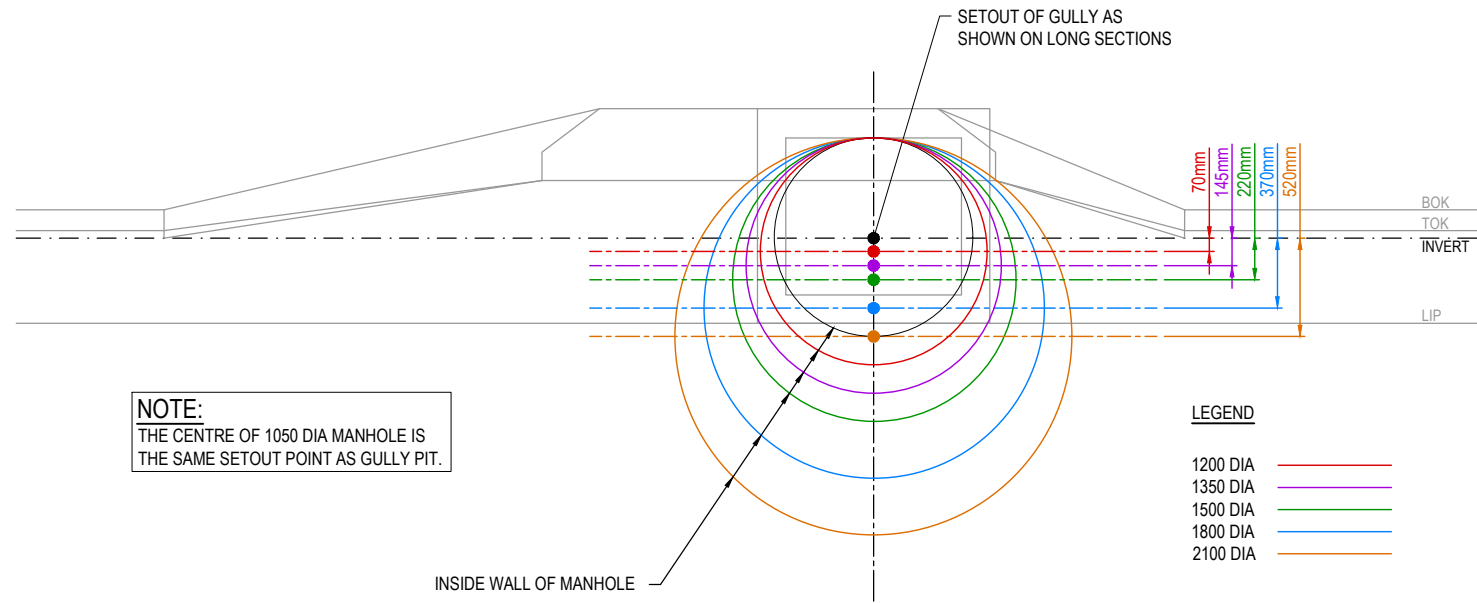
PIPE SIZE (mm)	375	375	375	450	450	600	825							
PIPE CLASS	3	3	3	3	3	3	3							
PIPE GRADE (%)	1.73%	3.67%	1.48%	2.60%	8.60%	6.62%	0.12%							
PIPE SLOPE (1 in X)	57.98	27.24	67.57	38.53	11.63	15.11	833.33							
FULL PIPE VELOCITY (m/s)	0.09	0.70	0.68	0.95	1.67	1.12	0.80							
PART FULL VELOCITY (m/s)	1.03	2.47	1.76	2.59	4.67	4.36	1.05							
DATUM RL	35.0				31.0									
H.G.L IN PIPE & W.S.E IN STRUCTURE	50.720 50.717	50.717 50.720	50.571	47.775 47.782 47.721	47.300 47.310 47.203	45.615 45.604 45.585	39.737 39.739 39.731	39.685 39.691 39.632	39.618 39.646 39.440					
PIPE FLOW (Cumecs)	0.010	0.077	0.075	0.151	0.266	0.315	0.429							
DEPTH TO INVERT	1.281	1.413	1.433	1.286 1.401	1.369 1.415	1.667 1.817	1.764 1.853	1.972 1.992						
INVERT LEVEL OF DRAIN	50.517	50.388 50.368	47.541 47.521	47.046 46.930	45.269 45.223	39.458 39.308	38.156 38.066	38.047 38.027						
DESIGN SURFACE LEVEL	51.798	51.800	48.950	48.331	46.638	41.124	39.920	40.019						
SETOUT COORDINATES	E 478933.867 N 694060.868	E 478940.062 N 694060.163	E 478984.139 N 694064.762	E 478972.491 N 694064.726	E 478916.619 N 6940725.939	E 478858.087 N 6940758.638	E 478842.592 N 6940766.574	E 478827.772 N 6940772.263						
RUNNING CHAINAGE	0.000	7.500	76.989	84.489	32.149	116.638	64.000	180.638	67.046	247.683	17.409	265.092	15.874	280.966

LINE

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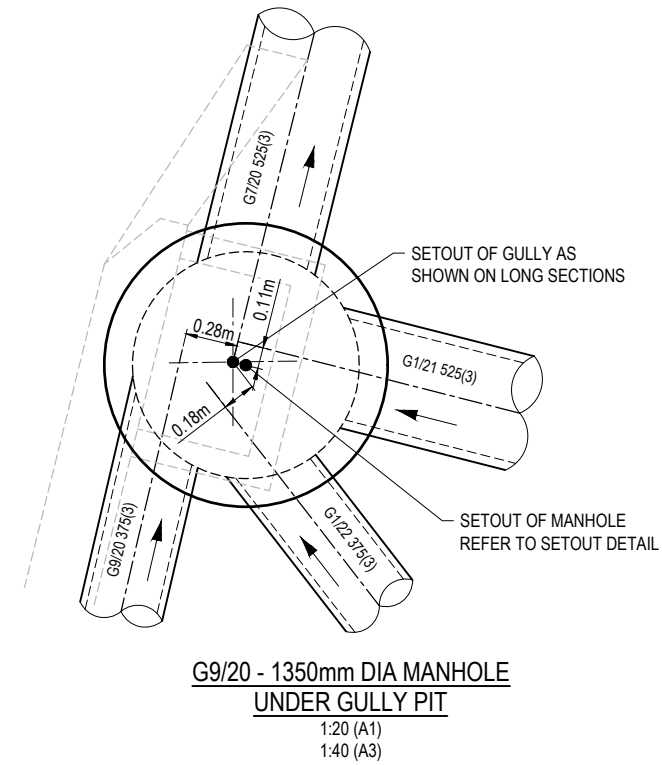
REV	DATE	DESIGN	DRAWN	REVISION DETAILS	DRAWN	STATUS	SCALE	CLIENT	PROJECT NAME	DRAWING TITLE
A	28.10.22	KH	KH	ISSUED FOR CONSTRUCTION	KH	ISSUED FOR CONSTRUCTION	1:500 1:1000 HORIZONTAL 1:50 1:100 VERTICAL	RIPLY PROJECTS PTY LTD	HAYFIELD STAGE 7	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 3 OF 3
					DESIGN	APPROVED DAN COLLINS RPEQ 18631		ASSOCIATED CONSULTANT	352 RIPLEY ROAD, RIPLEY QLD	PROJECT No. 21-0024
					DB					DRAWING No. 117
						FOR AND ON BEHALF OF PEAKURBAN PTY LTD	ENQUIRIES@PEAKURBAN.COM.AU			REVISION A

DESIGN ARI	STRUCTURE NO.		DRAIN SECTION	CONTRIBUTING CATCHMENT	UPPER CATCHMENT SUMMARY																				UPPER CATCHMENT													LOWER CATCHMENT		LOWER CATCHMENT													TOTAL FULL		DESIGN LEVELS						
	yr	min			mm/h	ha	L/s	L/s	L/s	m	m	m	m	%	%	%	Inlet type	Inlet curve	L/s	L/s	By-pass flow	By-pass structure No.	Critical time of conc.	mm/hr	Total (C+A)	Peak flow	Q	L	S	Cap. & Tra. Velocity	Chart(s) used	Velocity head	U/S Head loss	W.S.E. Coefficient	Change in W.S.E.	Pipe friction slope	Pipe friction head loss	Normal depth	Normal depth vel.	Pipe U/S LL	Pipe D/S LL	Pipe U/S H.G.L.	Pipe D/S H.G.L.	W.S.E.	Grade level	Structure No.															
2	G11/20	G11/20 to G10/20			5	129	0.04	0.031	11	11	237	1.195	0.06	1.11	3	ALZD	16.3.3X	11	G1/22	5	129	0.031	11	11	7.5	7.44	375	3	479	2	G2	0.001	9.7	0.005		0.005	1.24	0.119	0.04	1.8	39.348	38.79	39.423	39.33	39.428	40.628	G11/20														
100	G11/20	G11/20 to G10/20			5	281	0.04	0.041	32	32	237	1.844	0.068	1.11	3	ALZD	16.3.3X	22	G1/22	5	281	0.041	32	22	7.5	7.44	375	3	479	2	G2	0.002	3.36	0.007		0.007	0.02	0.001	0.055	2.21	39.348	38.79	40.618	40.617	40.625	40.628	G11/20														
2	G10/20	G10/20 to G9/20		G11/20	5	129	0.022	0.016	6	6	224	0.672	0.043	1.11	3	ALZD	16.3.3X	6	G9/20	5.06	128	0.047	17	17	22.18	1.5	375	3	215	2	T10	0.001	2.24	0.003	2.66	0.003	0.01	0.002	0.071	1.16	38.77	38.437	39.327	39.325	39.33	40.622	G10/20														
100	G10/20	G10/20 to G9/20		G11/20	5	281	0.022	0.02	16	16	224	5.236	0.177	1.11	3	ALZD	16.3.3X	95	G9/20	5.06	280	0.061	54	117	22.18	1.5	375	3	215	2	G1/T10	0.058	1.85	0.107	1.95	0.112	0.45	0.099	0.198	1.99	38.77	38.437	40.51	40.411	40.622	40.622	G10/20														
2	G9/20	G9/20 to G8/20		G1/22 G1/23 G4/21 G3/21 G2/21 G1/21 G11/20 G10/20	5	129	0.013	0.009	3	3	180	0.498	0.038	0.73	3	ALZD	0.9.3.3X	3	G8/20	15.67	88	0.782	192	192	59.124	0.5	525	3	304	2	T9/T10	0.04	2.01	0.081	2.48	0.099	0.2	0.118	0.303	1.49	38.287	37.992	39.244	39.126	39.344	40.421	G9/20														
100	G9/20	G9/20 to G8/20		G1/22 G1/23 G4/21 G3/21 G2/21 G1/21 G11/20 G10/20	5	281	0.013	0.012	10	10	397	1.80	0.53	0.178	0.73	3	ALZD	0.9.3.3X	255	G8/20	15.67	191	1.02	1006	720	59.124	0.5	525	3	304	2	T9	0.066	1.63	0.108	1.71	0.113	0.33	0.193	0.525	3.32	38.287	37.992	40.303	40.11	40.416	40.421	G9/20													
2	G8/20	G8/20 to G7/20		G1/24 G1/22 G1/23 G4/21 G3/21 G2/21 G1/21 G11/20 G10/20 G9/20	5	129	0.035	0.025	9	9	152	1.149	0.057	0.51	3	ALZD	0.9.3.3X	9	G7/20	16.16	87	0.892	216	216	21.698	0.5	600	3	434	2	T1/T3	0.03	1.13	0.034	1.28	0.038	0.12	0.027	0.299	1.53	37.917	37.808	39.093	39.066	39.131	40.11	G8/20														
100	G8/20	G8/20 to G7/20		G1/24 G1/22 G1/23 G4/21 G3/21 G2/21 G1/21 G11/20 G10/20 G9/20	5	281	0.035	0.033	26	167	152	3.787	0.139	0.51	3	ALZD	0.9.3.3X	-246	G7/20	16.16	188	1.162	1074	465	21.698	0.5	600	3	434	2	T1/T3	0.138	0.45	0.062	0.52	0.071	0.57	0.124	0.546	1.72	37.917	37.808	40.037	39.913	40.108	40.11	G8/20														
2	G7/20	G7/20 to G6A/20		G2/26 G1/26 G1/27 G7/25 G6/25 G5/25 G4/25 G3/25 G2/25 G1/25 G1/24 G1/22	5	129	0.013	0.009	3	3	162	0.564	0.04	0.58	2.97	ALZD	0.9.3.3X	3	G6A/20	17.28	84	2.337	560	560	13.769	0.5	825	3	1015	2	T6/T9	0.056	2.16	0.121	2.46	0.138	0.15	0.021	0.437	1.95	37.788	37.719	38.945	38.924	39.082	40.014	G7/20														
100	G7/20	G7/20 to G6A/20		G1/23 G4/21 G3/21 G2/21 G1/21 G11/20 G10/20 G9/20 G8/20	5	281	0.013	0.012	10	423	162	5.825	0.189	0.58	2.97	ALZD	0.9.3.3X	267	G6A/20	17.28	183	3.046	2040	826	13.769	0.5	825	3	1015	2	T3	0.012	1.44	0.018	1.72	0.021	0.03	0.005	0.565	2.12	37.788	37.719	39.895	39.891	39.916	40.014	G7/20														
2	G6A/20	G6A/20 to G6/20		G2/26 G1/26 G1/27 G7/25 G6/25 G5/25 G4/25 G3/25 G2/25 G1/25 G1/24 G1/22	5	129	0.008	0.006	2	2	135	0.435	0.035	0.4	3.04	ALZD	0.9.3.3X	2	G6/20	17.39	84	2.343	559	559	46.86	0.2	825	3	642	2	T1/T3	0.056	1.62	0.09	1.96	0.109	0.15	0.071	0.596	1.35	37.699	37.605	38.834	38.763	38.943	39.939	G6A/20														
100	G6A/20	G6A/20 to G6/20		G1/23 G4/21 G3/21 G2/21 G1/21 G11/20 G10/20 G9/20 G8/20 G7/20	5	281	0.008	0.008	6	162	135	3.787	0.143	0.4	3.04	ALZD	0.9.3.3X	134	G6/20	17.39	182	3.053	2040	952	46.86	0.2	825	3	642	2	T1/T3	0.123	1.28	0.158	1.49	0.183	0.34	0.157	0.825	1.78	37.699	37.605	39.733	39.576	39.916	39.939	G6A/20														
2	G6/20	G6/20 to G5/20		G1/28 G1/26 G1/27 G7/25 G6/25 G5/25 G4/25 G3/25 G2/25 G1/25 G1/24	5	129	0.028	0.02	7	7	152	1.016	0.054	0.51	3	ALZD	0.9.3.3X	7	G5/20	17.78	83	2.426	573	573	19.14	0.2	900	3	810	2	T1/T3	0.041	0.47	0.019	0.52	0.022	0.1	0.019	0.559	1.38	37.585	37.547	38.743	38.724	38.765	39.695	G6/20														
100	G6/20	G6/20 to G5/20		G1/22 G1/23 G4/21 G3/21 G2/21 G1/21 G11/20 G10/20 G9/20 G8/20 G7/20	5	281	0.028	0.026	20	49	152	2.418	0.095	0.51	3	ALZD	0.9.3.3X	49	G5/20	17.78	180	3.162	2080	1052	19.14	0.2	900	3	810	2	T1/T3	0.139	0.74	0.104	0.82	0.114	0.34	0.065	0.9	1.65	37.585	37.547	39.472	39.407	39.586	39.695	G6/20														
2	G4/21	G4/21 to G3/21			15	90	0.298	0.212	53	53	689	1.464	0.057	9.12	3	ALZD	8.6.3.3X	49	G1/23	15	90	0.212	53	49	7.5	1	375	3	175	2	G2	0.01	9.7	0.096		0.096	-0.06	0.009	0.135	1.36	45.842	45.767	46.06	46.065	46.156	47.122	G4/21														
100	G4/21	G4/21 to G3/21			15	194	0.298	0.276	149	149	689	2.219	0.079	9.12	3	ALZD	8.6.3.3X	99	G1/23	15	194	0.276	149	99	7.5	1	375	3	175	2	G2	0.041	6.18	0.256		0.256	0.32	0.024	0.202	1.64	45.842	45.767	46.409	46.385	46.665	47.122	G4/21														
2	G3/21	G3/21 to G2/21			15	90	0.295	0.21	52	52	689	1.458	0.057	9.12	3	ALZD	8.6.3.3X	48	G2/21	15.06	90	0.421	105	97	35.5	12.31	375	3	615	2	T10	0.039	2.29	0.089	2.66	0.104	12.05	4.327	0.1	4.06	45.747	41.378	45.975	41.697	46.079	47.122	G3/21														
100	G3/21	G3/21 to G2/21			15	194	0.295	0.273	147	147	689	2.209	0.078	9.12	3	ALZD	8.6.3.3X	99	G2/21	15.06	194	0.549	295	198	35.5	12.31	375	3	615	2	T10	0.164	1.93	0.315	2.39	0.39	11.29	4.04	0.146	4.96	45.747	41.378	46.07	42.061	46.46	47.122	G3/21														
2	G2/21	G2/21 to G1/21			10	106	0.136	0.097	29	33	850	1.089	0.047	14.08	3	ALZD	16.6.3.3X	32	G1/21	15.36	89	0.518	128	123	18.622	13.1	375	3	635	2	T1/T3	0.063	1.29	0.081	1.31	0.083	11.87	2.264	0.112	4.44	41.358	38.919	41.616	39.406	41.699	42.925	G2/21														
100	G2/21	G2/21 to G1/21		G4/21 G3/21	10	229	0.136	0.126	80	129	850	1.929	0.07	14.08	3	ALZD	16.6.3.3X	79	G1/21	15.36	192	0.675	361	262	18.622	13.1	375	3	635	2	T1/T3	0.287	1.22	0.351	1.24	0.356	5.37	1.014	0.168	5.47	41.358	38.919	41.71	40.711	42.066	42.925	G2/21														
2	G1/21	G1/21 to G8/20		G1/23 G4/21 G3/21 G2/21	8	115	0.057	0.041	13	14	146		0.004	6.29	3.49	ANTI POND	SAG	14	G1/24	15.51	89	0.67	165	165	18.475	2.5	525	3	680	2	T3/T6	0.03	1.81	0.054	2.22	0.066	0.15	0.027	0.176	2.59	38.769	38.307	39.352	39.325	39.418	40.735	G1/21														
100	G1/21	G1/21 to G8/20		G1/23 G4/21 G3/21 G2/21	8	250	0.057	0.053	37	86	36		0.15	6.29	3.49	ANTI POND	SAG	36	G1/24	15.51	191	0.873	464	362	18.475	2.5	525	3	680	2	T3/T6	0.142	1.19	0.17	1.36	0.194	0.71	0.13	0.272	3.19	38.769	38.307	40.541	40.411	40.735	40.735	G1/21														
2	G9/20			G1/22 G1/23 G4/21 G3/21 G2/21 G1/21 G11/20 G10/20	5	129	0.013	0.009	3	3	180	0.498	0.038	0.73	3	ALZD	0.9.3.3X	3	G8/20													2.01	0.081	2.48	0.099						39.344	40.421	G9/20																		
100	G9/20			G1/22 G1/23 G4/21 G3/21 G2/21 G1/21 G11/20 G10/20	5	281	0.013	0.012	10	397	180	5.3	0.178	0.73	3	ALZD	0.9.3.3X	255	G8/20													1.63	0.108	1.71	0.113						40.416																				

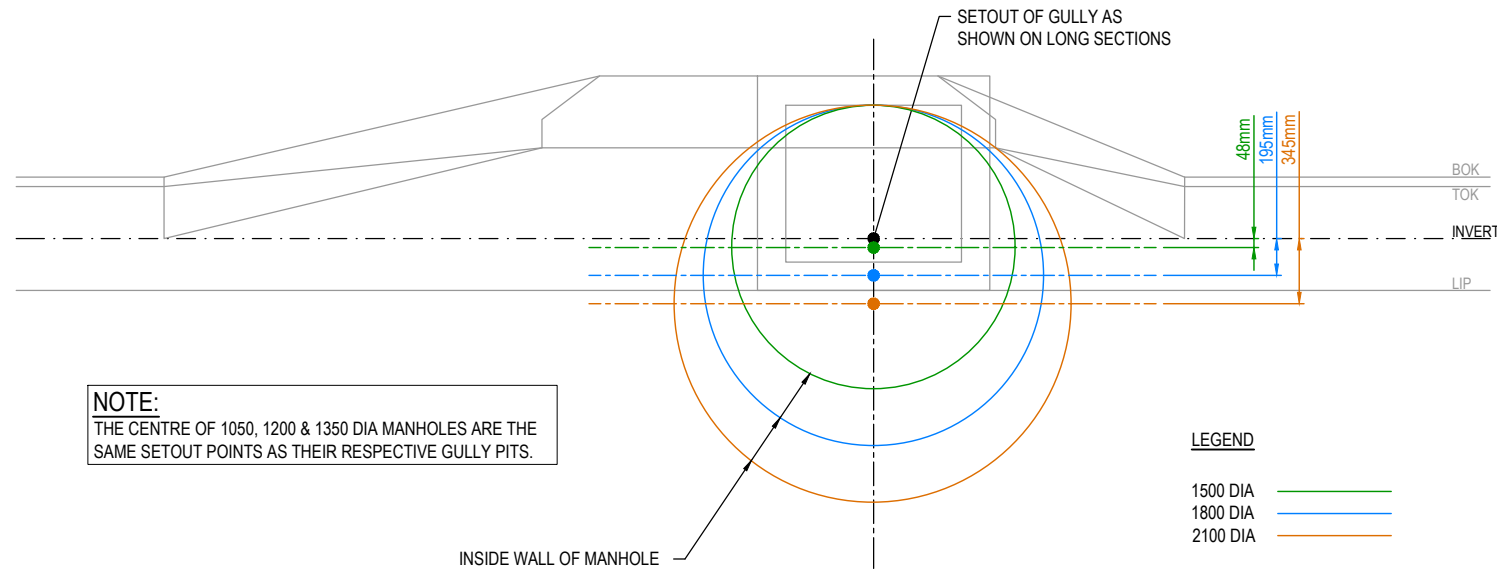


NOTE:
THE CENTRE OF 1050 DIA MANHOLE IS THE SAME SETOUT POINT AS GULLY PIT.

TYPICAL MANHOLE UNDER GULLY SETOUT - BARRIER K&C - STANDARD TYPE A GULLY
1:20 (A1)
1:40 (A3)

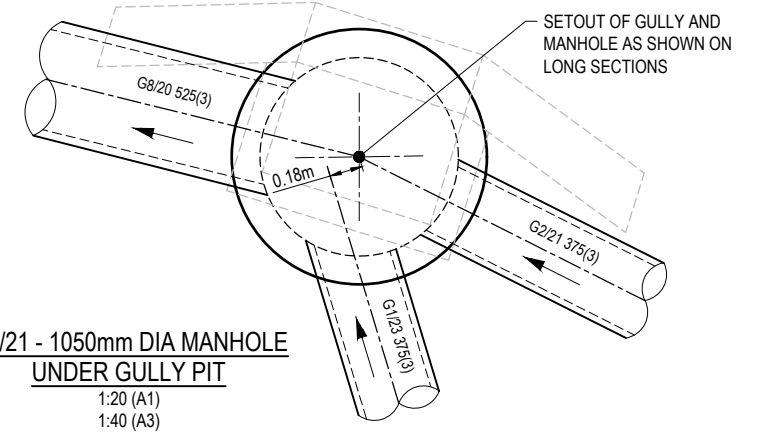


G9/20 - 1350mm DIA MANHOLE UNDER GULLY PIT
1:20 (A1)
1:40 (A3)

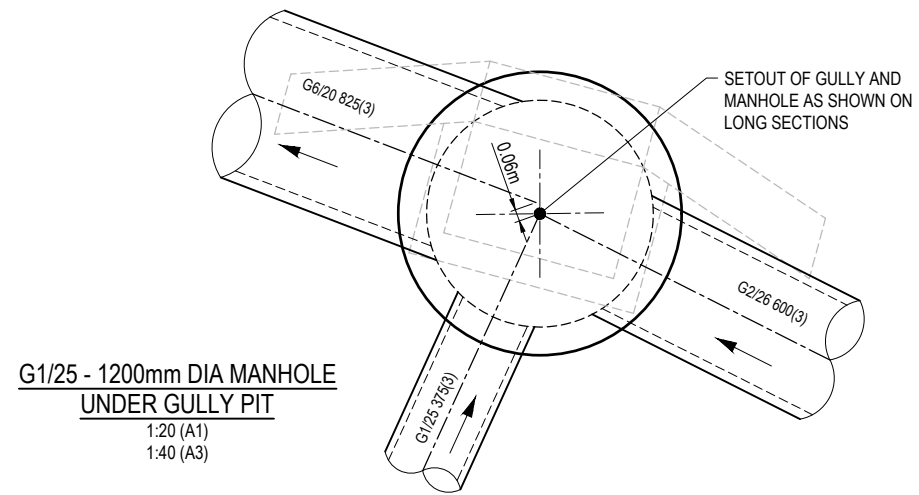


NOTE:
THE CENTRE OF 1050, 1200 & 1350 DIA MANHOLES ARE THE SAME SETOUT POINTS AS THEIR RESPECTIVE GULLY PITS.

TYPICAL MANHOLE UNDER GULLY SETOUT - MOUNTABLE K&C - STANDARD TYPE A GULLY
1:20 (A1)
1:40 (A3)



G1/21 - 1050mm DIA MANHOLE UNDER GULLY PIT
1:20 (A1)
1:40 (A3)



G1/25 - 1200mm DIA MANHOLE UNDER GULLY PIT
1:20 (A1)
1:40 (A3)

REV	DATE	DESIGN	DRAWN	REVISION DETAILS	DRAWN	STATUS	SCALE	CLIENT	PROJECT NAME	DRAWING TITLE	
A	28.10.22	KH	KH	ISSUED FOR CONSTRUCTION	KH	ISSUED FOR CONSTRUCTION	1:20 0.2 0.4 0.6 0.8 1 A1 1:40	RIPLEY PROJECTS PTY LTD	HAYFIELD STAGE 7	STORMWATER DRAINAGE STRUCTURE DETAILS	
					DB	DESIGN APPROVED DAN COLLINS RPEQ 18631		ASSOCIATED CONSULTANT	352 RIPLEY ROAD, RIPLEY QLD	PROJECT No. 21-0024 DRAWING No. 119 REVISION A	
FOR AND ON BEHALF OF PEAKURBAN PTY LTD							ENQUIRIES@PEAKURBAN.COM.AU				