

DERBY AND ORMOND STREET INTERSECTION KENSINGTON STREETSCAPE IMPROVEMENTS AND DRAINAGE WORKS

CONSTRUCTION NOTES

1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATIONS AND DRAWINGS ISSUED BY THE PROJECT MANAGER AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT.
2. ALL DIMENSIONS AND RELEVANT SETOUT POINTS SHALL BE CONFIRMED AND VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION IS COMMENCED. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE PROJECT MANAGER.
3. THE CONTRACTOR SHALL TRANSFER THEM'S OUT OF CONSTRUCTION AREA PRIOR TO COMMENCEMENT OF EXCAVATION WORKS.
4. THE CONTRACTOR SHALL MAINTAIN THE WORK SITE IN A SAFE AND TRAFFICABLE CONDITION.
5. THE CONTRACTOR SHALL ERECT AND MAINTAIN ALL SHORING, PLANNING AND STRUTTING, DEWATERING DEVICES, BARRICADES, SIGNS, LIGHTS, ETC NECESSARY TO KEEP WORKS IN A SAFE AND STABLE CONDITION FOR THE PROTECTION OF THE PUBLIC.
6. THE CONTRACTOR SHALL ENSURE THAT NO POLYMER OR SEDIMENT LOOSE RUNOFF ENTERS ANY DRAIN OR WATERCOURSE. THE CONTRACTOR SHALL ENSURE THAT PRECAUTIONS ARE TAKEN TO PREVENT EMISSION OF DUST, WHETHER FROM THE OPERATION OF CONSTRUCTION EQUIPMENT OR OTHERWISE.
7. THE CONTRACTOR SHALL PROVE ALL SERVICE LOCATIONS PRIOR TO COMMENCING WORK.
8. SAWCUT EXISTING PAVEMENT AT LIMIT OF WORKS TO ENSURE NEARLY MATCHING TO NEW WORKS. SAWCUT DEPTH: 75mm for ASPHALT FOOTPATH & 125mm for ASPHALT ROADWAY.
9. CARE MUST BE TAKEN WHEN EXCAVATING IN THE VICINITY OF SERVES.
10. EXCAVATION WITHIN 4.5m RADIUS OF TREES SHALL BE CARRIED OUT WITH HAND HELED EQUIPMENT AS PER HCC TREE PROTECTION FACT SHEET. CUTTING OF FREE ROOTS GREATER THAN 25mm DIA. SHALL BE CARRIED OUT UNDER THE SUPERVISION OF PARKS & GREEN DESIGN ARCHITECT. CONTACT TIANA BARCLOD TEL. 9658 8716 PRIOR TO COMMENCEMENT OF WORKS IN THIS VICINITY.
11. CONTRACTOR TO ADJUST ALL AFFECTED SERVICE COVERS TO MATCH NEW PAVEMENT LEVELS.
12. CONTRACTOR TO COORDINATE EXCAVATION WORKS WHERE OPTIC FIBRE EXISTS WITH TELSTRA.
13. UPON COMPLETION THE WHOLE SITE SHALL BE CLEANED UP AND ALL RUBBISH REMOVED AND SITE LEFT IN A CLEAN AND SOUND CONDITION TO THE SATISFACTION OF ALL PROJECT MANAGER.

DRAINAGE NOTES

- D1. ALL REINFORCED CONCRETE PIPES (RCP) SHALL BE CLASS 2 (UNLESS OTHERWISE NOTED) AND COMPLY WITH AS 4058.
- D2. ALL REINFORCED CONCRETE PIPES AND ALL UPVC PIPES 2250 OR GREATER SHALL BE RUBBER LINED.
- D3. ALL SUSCEPTIBLE DIAMANS TO BE 90 DIA. SLOTTED UPVC PIPE AND INSTALLED TO NIN DEPTH WITH 10% OVERLAP.
- D4. LAYING OF PIPES SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF THE SPECIFICATION.
- D5. PIPE LAYING SHALL COMMENCE AT THE DOWNSREAM END OF WORK.
- D6. THE SIZE OF UNDERGROUND PIPES CONNECTING TO DOWNPIPES SHALL MATCH DOWNPipe SIZE UNLESS OTHERWISE NOTED.

OH&S DRAINAGE NOTES

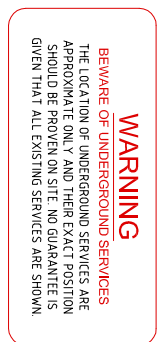
1. CONTRACTOR TO CHECK FOR CONTAMINANTS PRIOR TO ENTERING DRAINAGE SYSTEM
2. CONTRACTOR TO INTRODUCE MANUAL HANDLING PROCEDURES PRIOR TO CONSTRUCTION AND MAINTENANCE WORKS
3. CONTRACTOR TO INTRODUCE SAFE MAINTENANCE PROCEDURES PRIOR TO UNDERTAKING MAINTENANCE WORKS ON THESE ASSETS.
4. ALL EXCAVATION AND TRENCHING TO COMPLY WITH OH&S ACT AND RELEVANT GUIDELINES



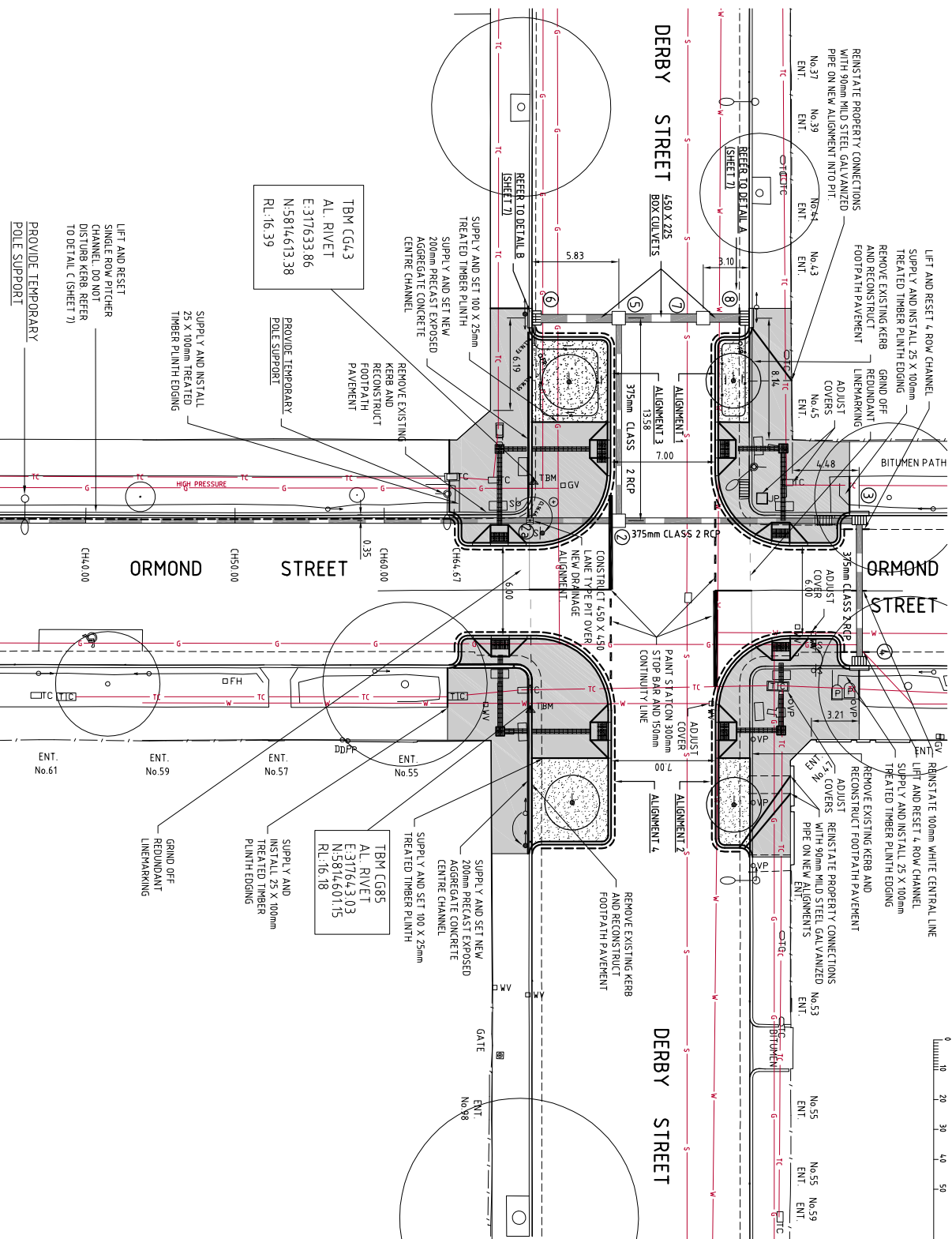
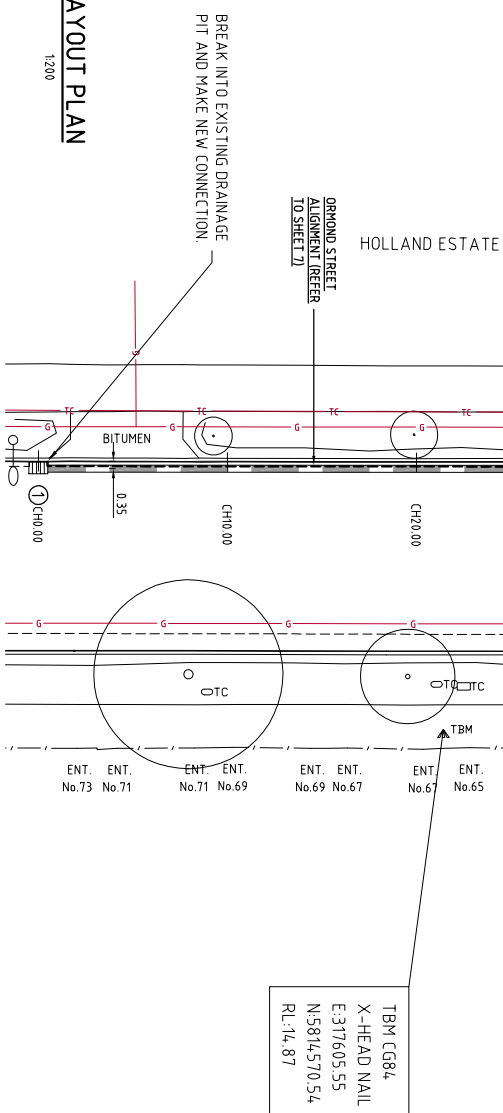
A	PRELIMINARY ISSUE		
Rev.	<i>Revision Details</i>	By	Date

CONSTRUCTION LEGEND

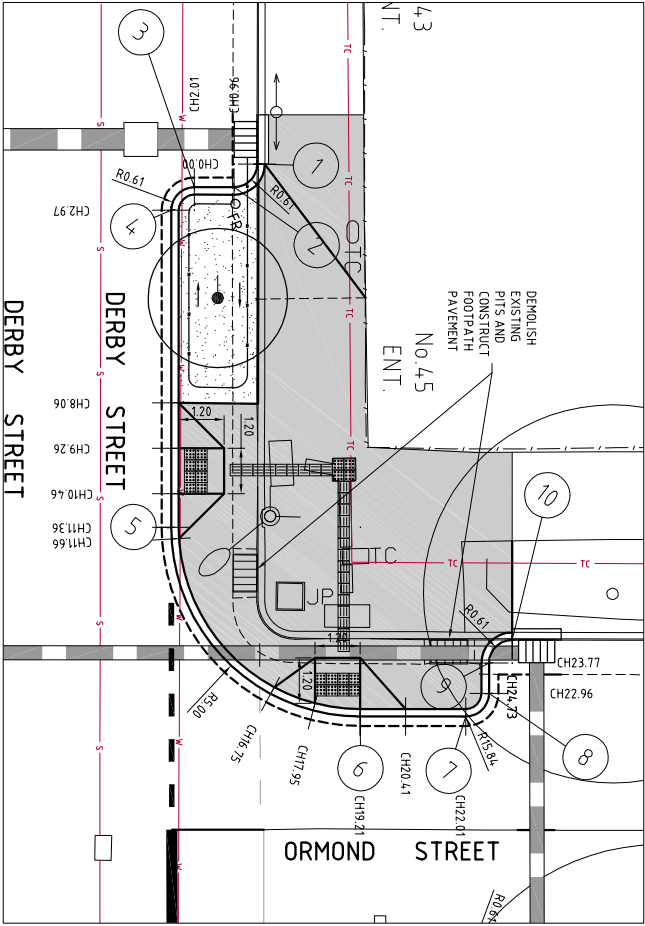
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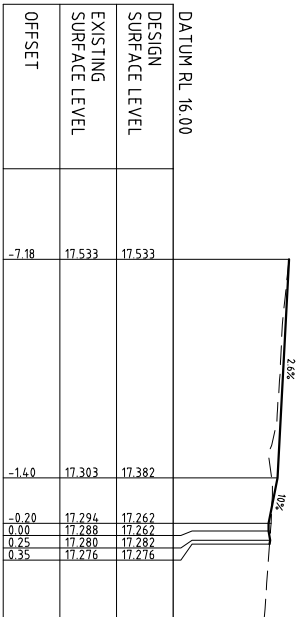
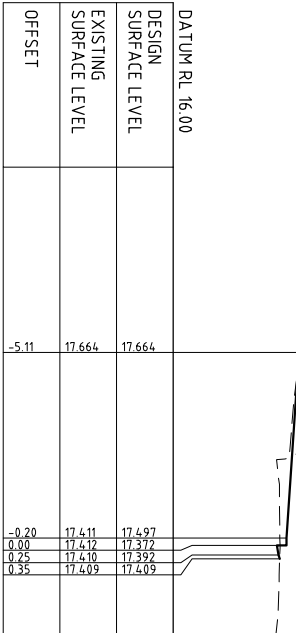
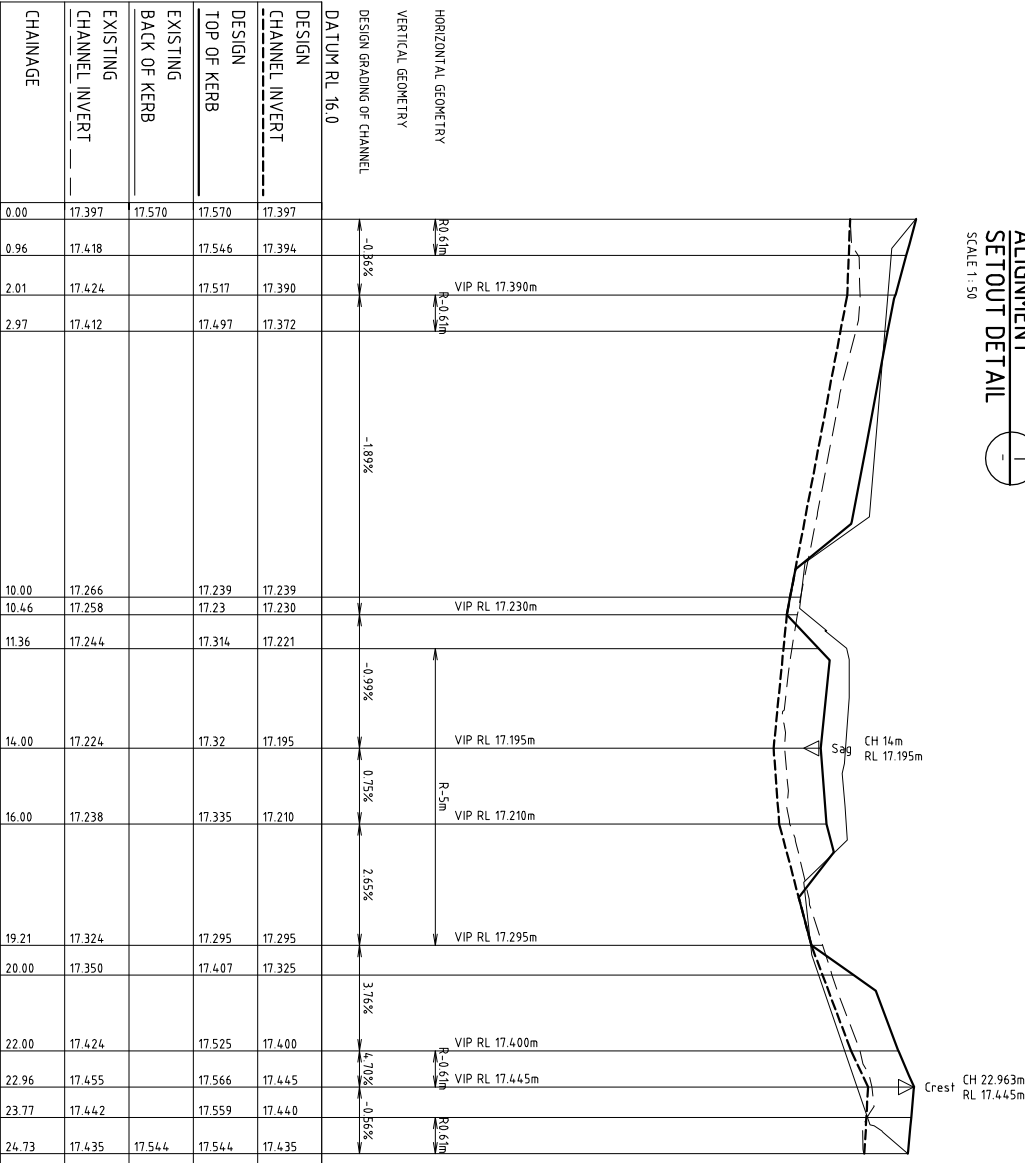
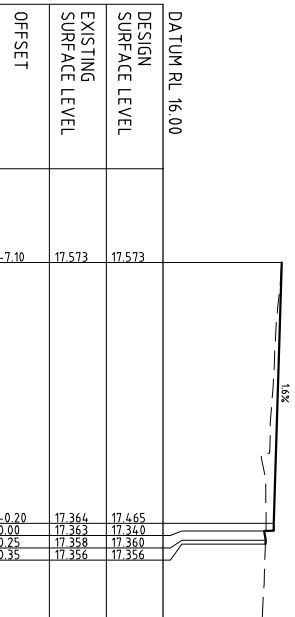
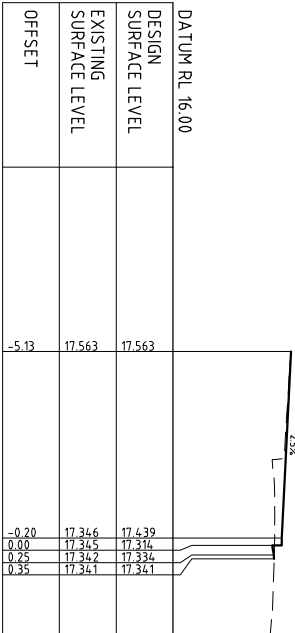
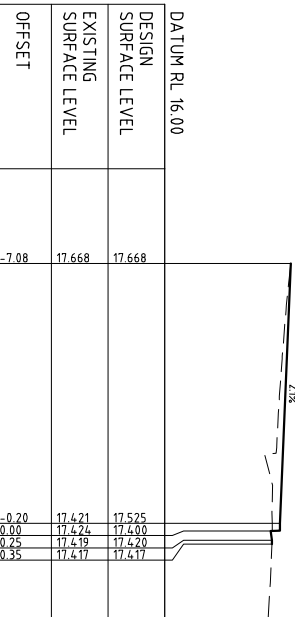
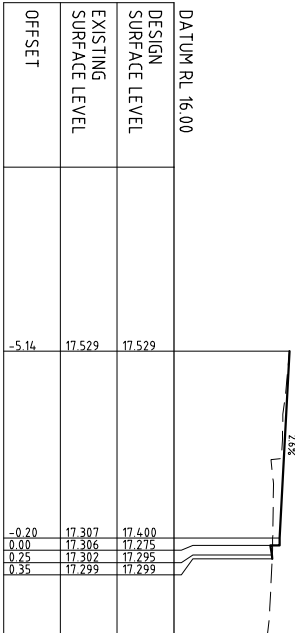
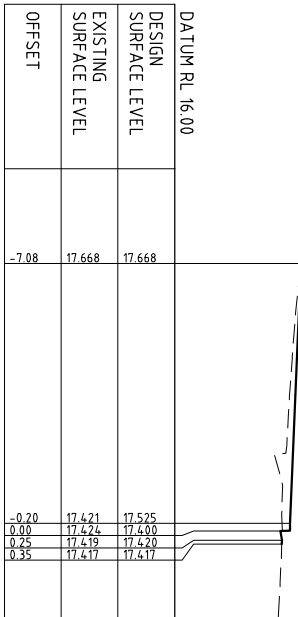
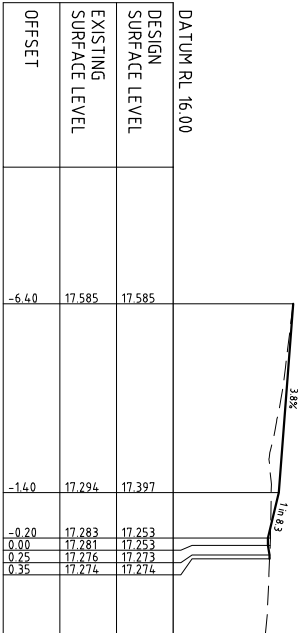
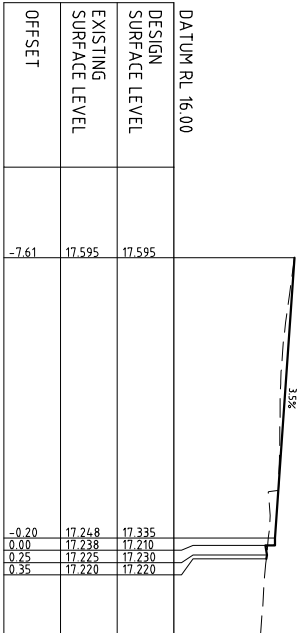
LAYOUT PLAN



ENGINEERING SERVICES		STATUS	PRELIMINARY	
APPROVED BY Principal Engineer		JOB LOCATION DERBY AND ORMOND STREET INTERSECTION KENSINGTON STREETSCAPE IMPROVEMENTS & DRAINAGE WORKS COVER SHEET	DRAWING NUMBER W/K0326978	
-	Group Manager		NUMBER OF SHEETS 1 OF 7	REVISION A
Date	Date		DOCS NUMBER	-



SETOUT COORDINATES			
POINT	EASTING	NORTHING	R.L.
1	317639.14.4	5814630.156	17.397
2	317639.033	5814629.300	17.394
3	317638.200	5814628.658	17.390
4	317638.090	5814627.802	17.372
5	317643.215	5814621.158	17.221
6	317650.228	5814620.253	17.295
7	317652.437	5814621.958	17.400
8	317652.549	5814622.814	17.445
9	317652.058	5814623.451	17.440
10	317652.168	5814624.306	17.435



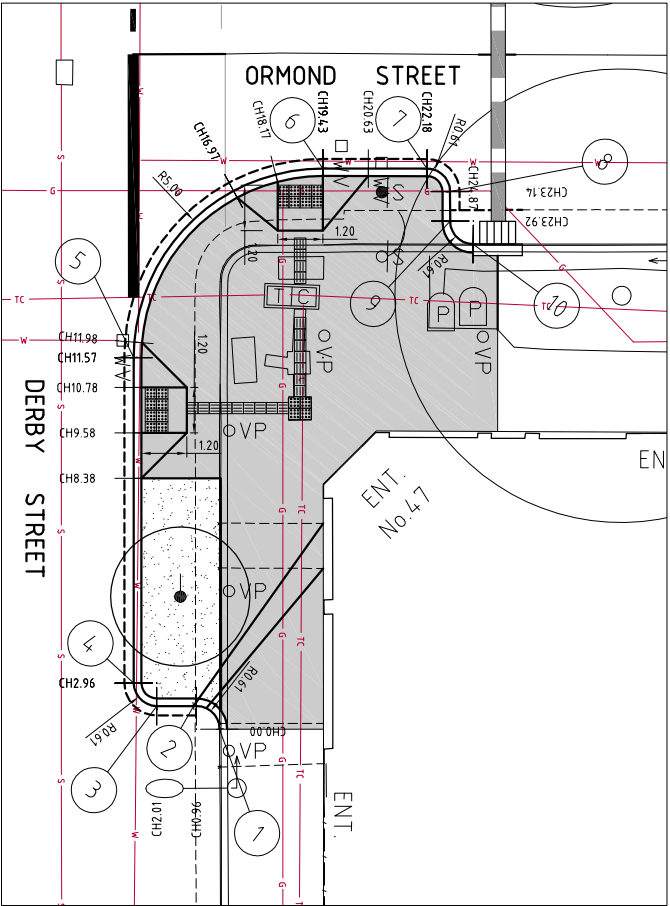
Alignment 1 - LONGITUDINAL SECTION

Scale H: 1:100
V: 1:10

ENGINEERING SERVICES

PRELIMINARY

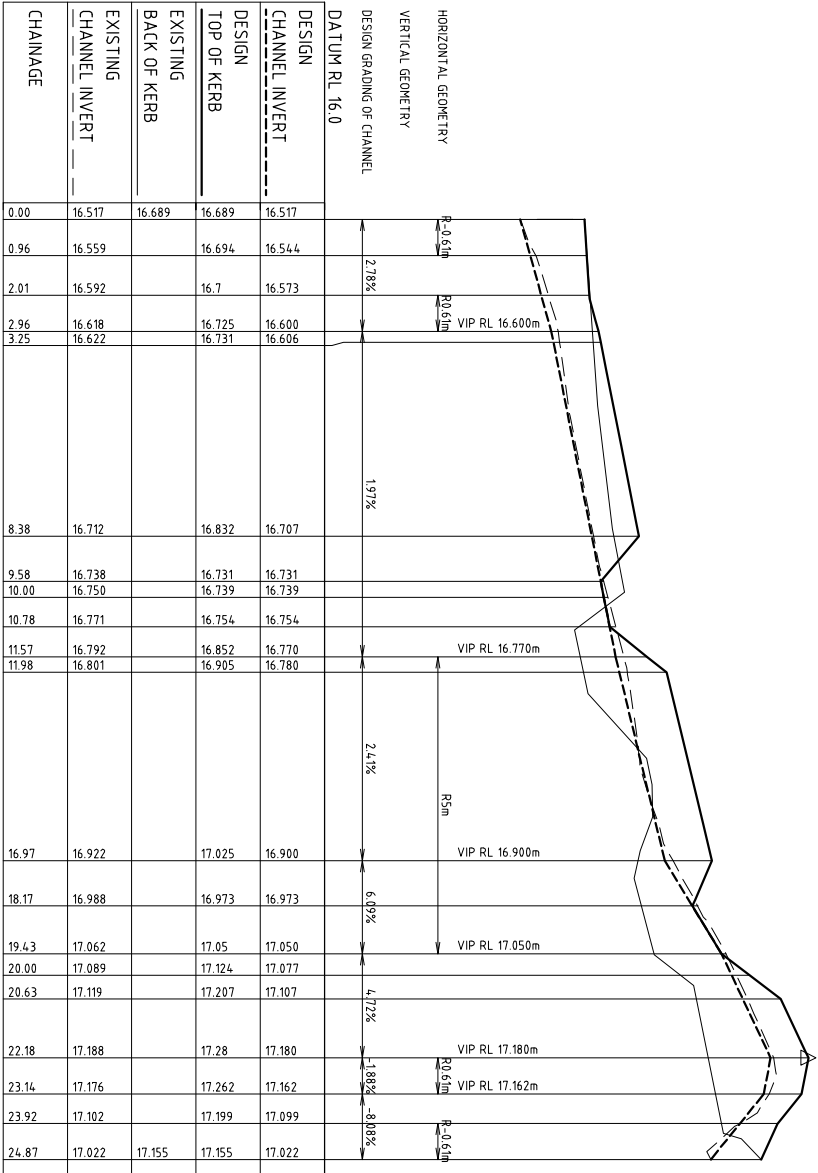
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SETOUT COORDINATES			
POINT	EASTING	NORTHING	R.L.
1	317660.832	5814602.102	16.517
2	317659.914	5814602.164	16.514
3	317659.147	5814601.572	16.573
4	317658.291	5814601.682	16.600
5	317653.031	5814608.496	16.770
6	317653.936	5814615.511	17.050
7	317656.116	5814617.192	17.180
8	317656.971	5814617.082	17.162
9	317657.448	5814616.464	17.099
10	317658.301	5814616.352	17.022

ALIGNMENT
SETOUT DETAIL

SCALE 1 : 50



Alignment 2 - LONGITUDINAL SECTION

Scale H: 1:100

V: 1:10

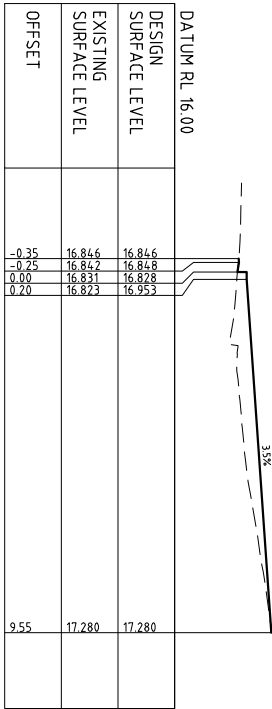
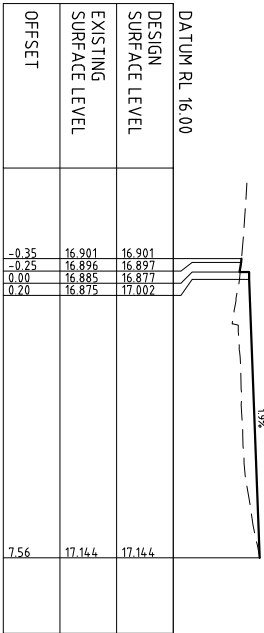
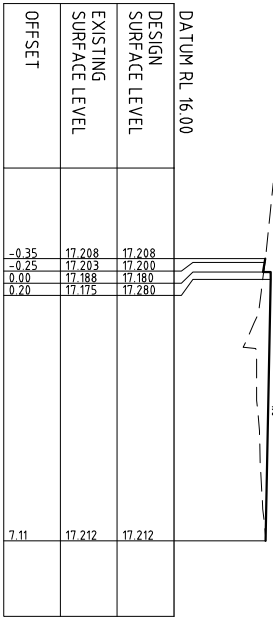
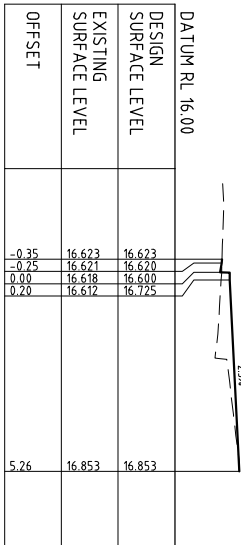
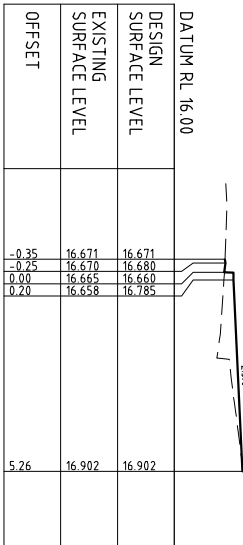
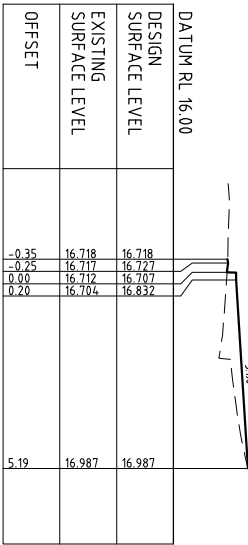
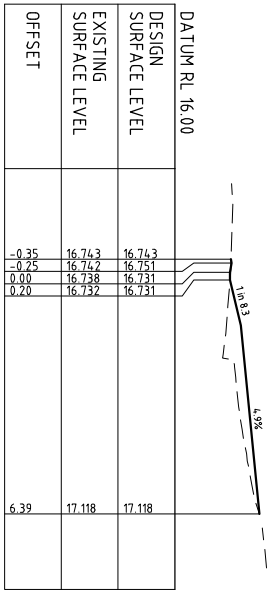


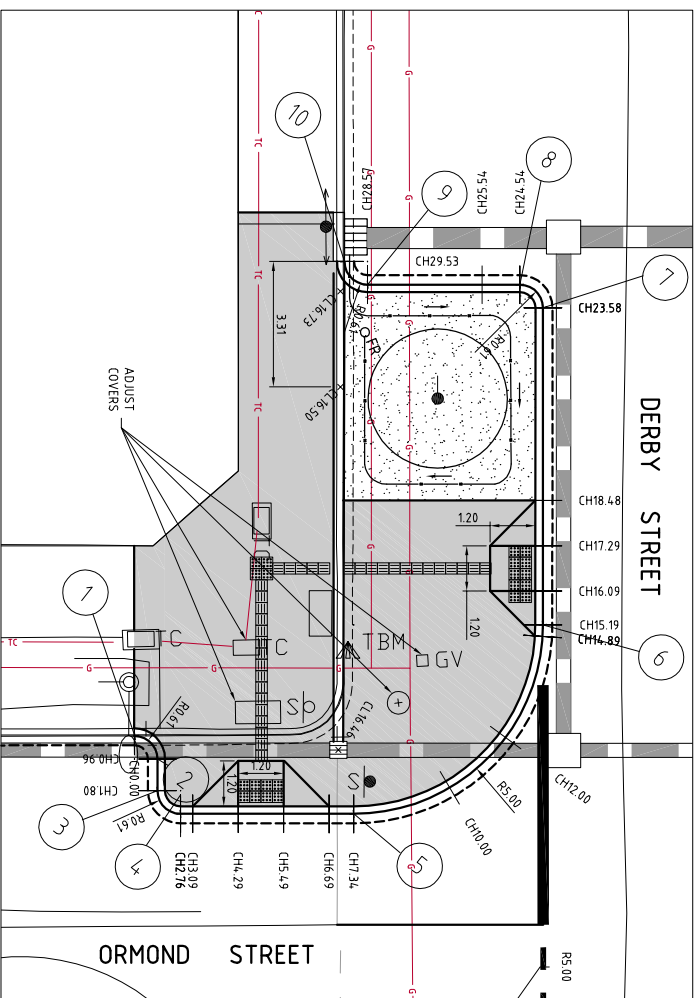
ENGINEERING SERVICES		PRELIMINARY	
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DESIGNED BY		CONCEPT DOCS NO.	
DRAWN BY		SURVEY REFERENCE	CARDNO
CHECKED		SCALE	1:200
CHECKED DATE		DATUM	MGASL/AHD
Rev.		By	Date
A PRELIMINARY ISSUE		PM	17/01/14
Revision Details			

Alignment 2 - CROSS SECTIONS

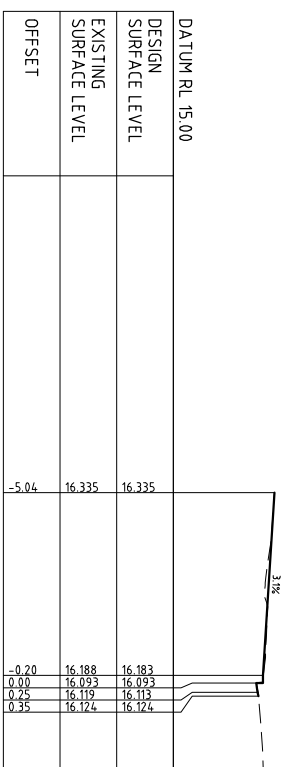
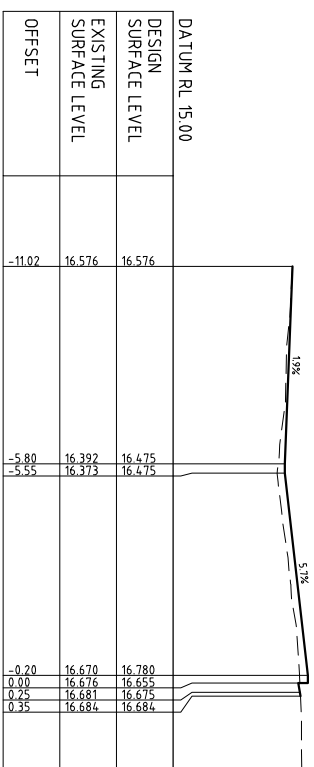
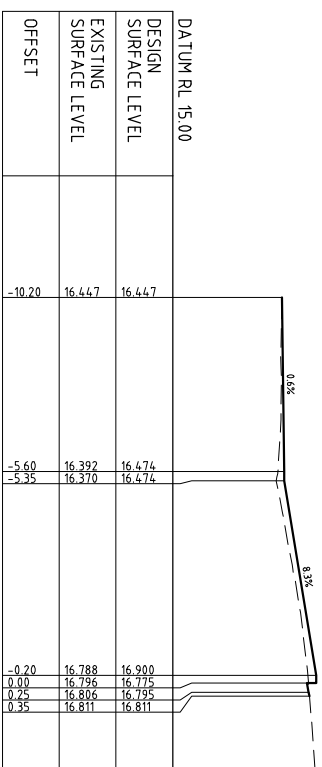
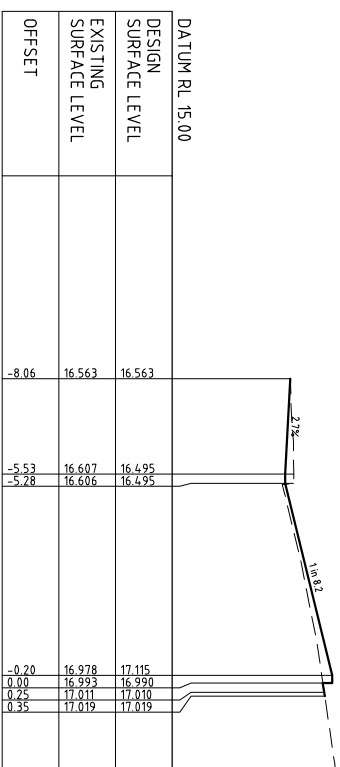
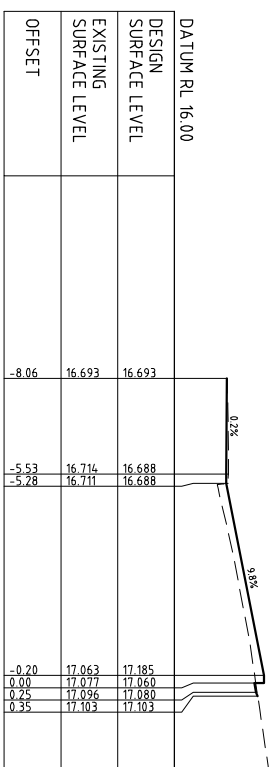
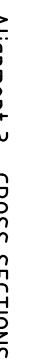
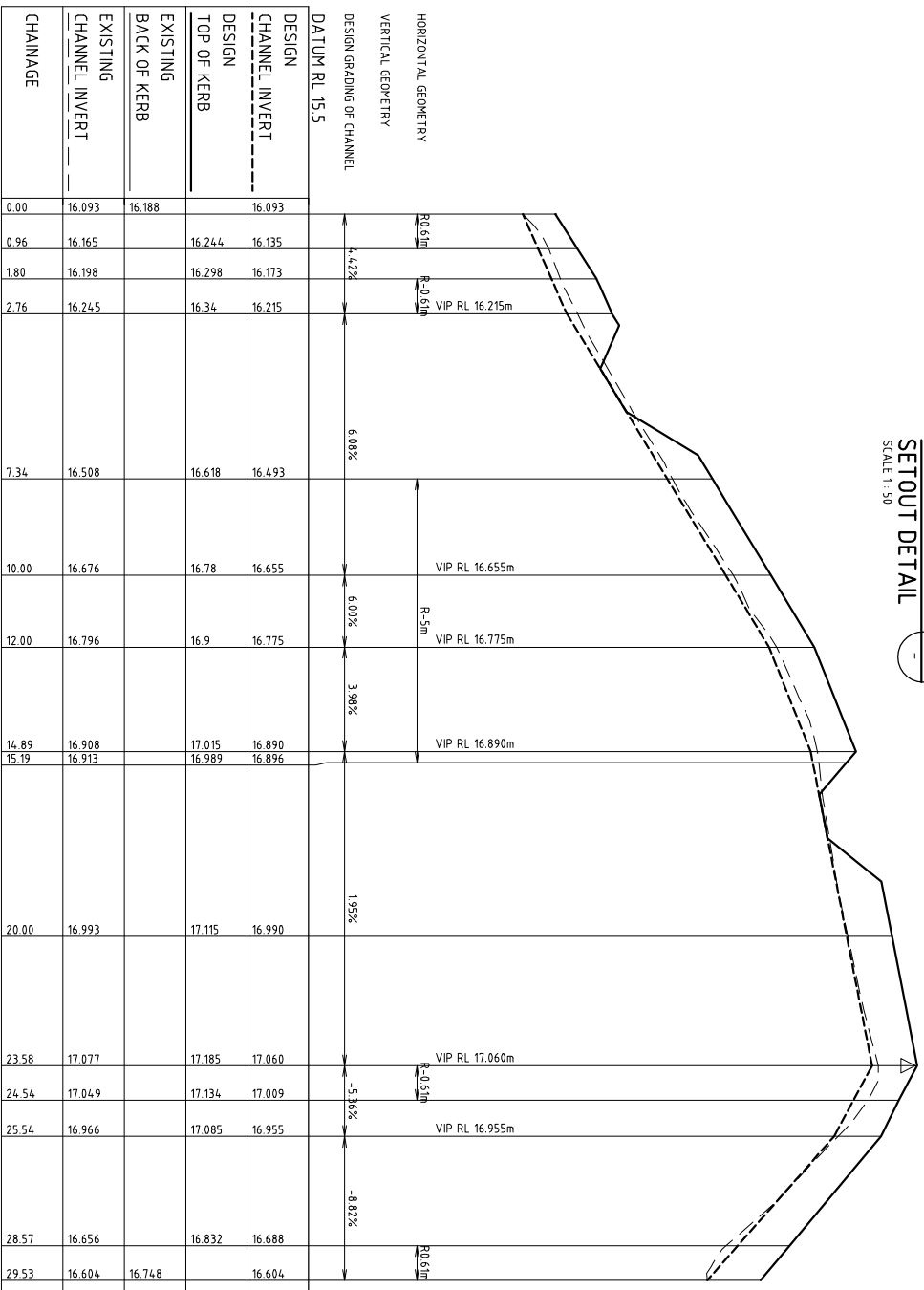
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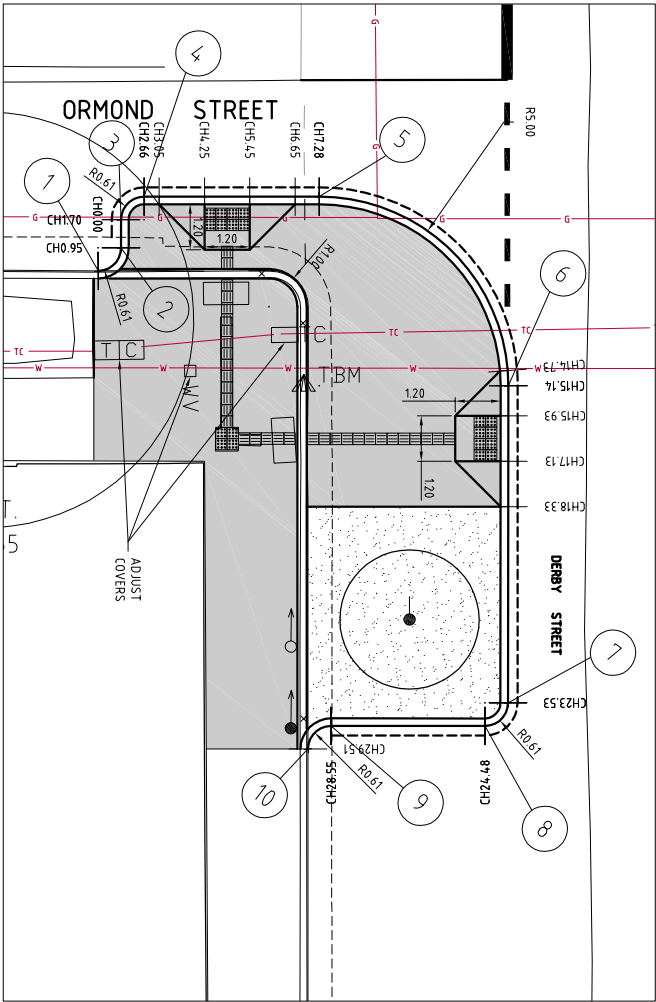
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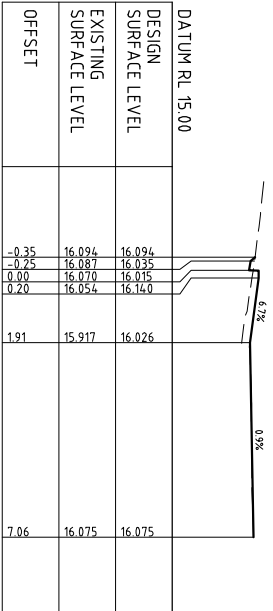
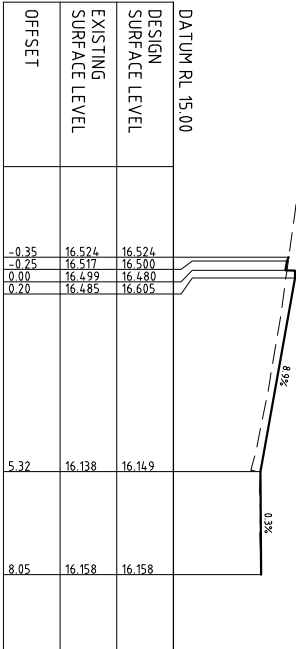
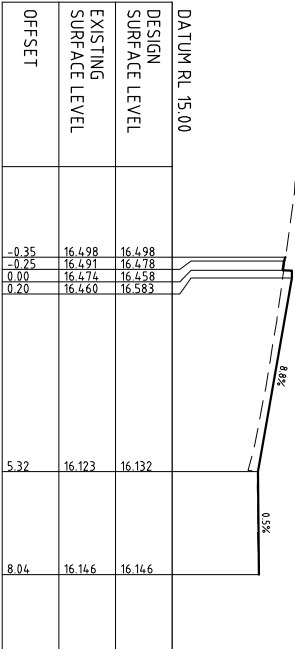
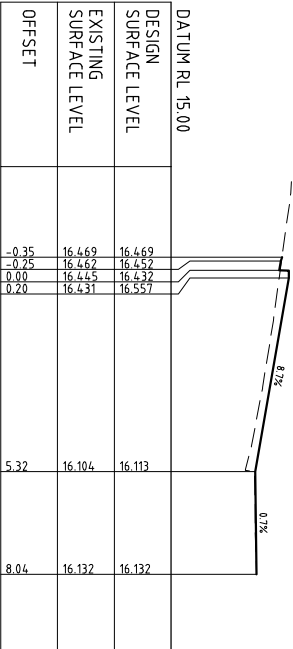
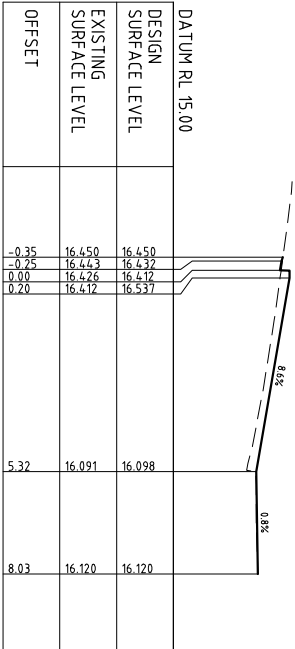


SETOUT COORDINATES			
POINT	EASTING	NORTHING	R.L.
1	317030.926	5846407.967	16.093
2	317031.772	5846407.850	16.135
3	317032.285	5846407.184	16.113
4	317033.141	5846407.074	16.215
5	317036.767	5846409.070	16.493
6	317037.672	5846416.883	16.896
7	317032.546	5846423.526	17.060
8	317031.693	5846423.537	17.009
9	317028.503	5846421.718	16.688
10	317027.646	5846421.888	16.604

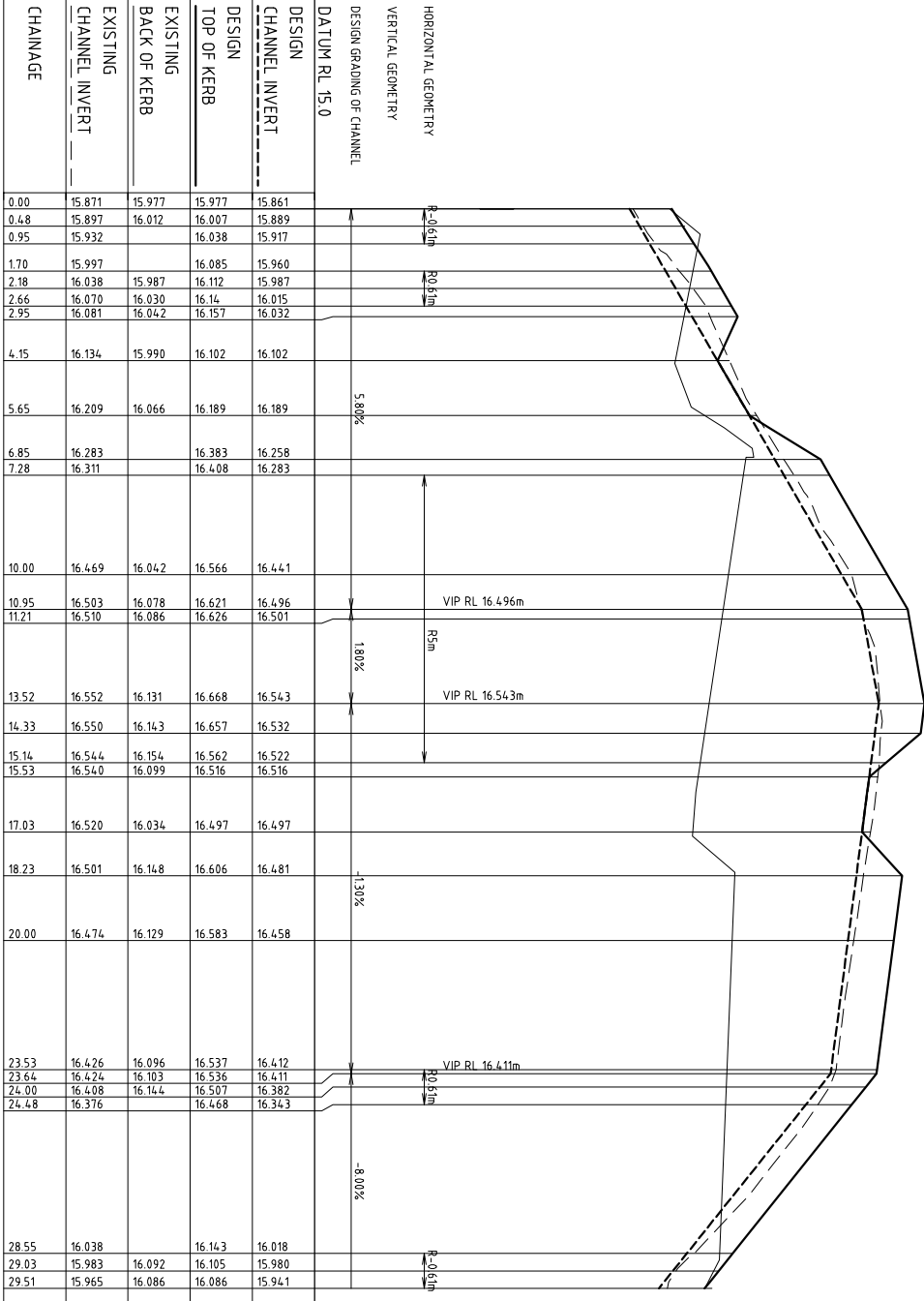
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SETOUT COORDINATES			
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2	317637.160	5814600.861	15.917
3	317636.706	5814601.449	15.960
4	317636.616	5814602.305	16.015
5	317640.677	5814605.130	16.283
6	317647.692	5814606.424	16.522
7	317652.612	5814597.580	16.412
8	317649.282	5814596.725	16.343
9	317649.171	5814593.386	15.941
10			

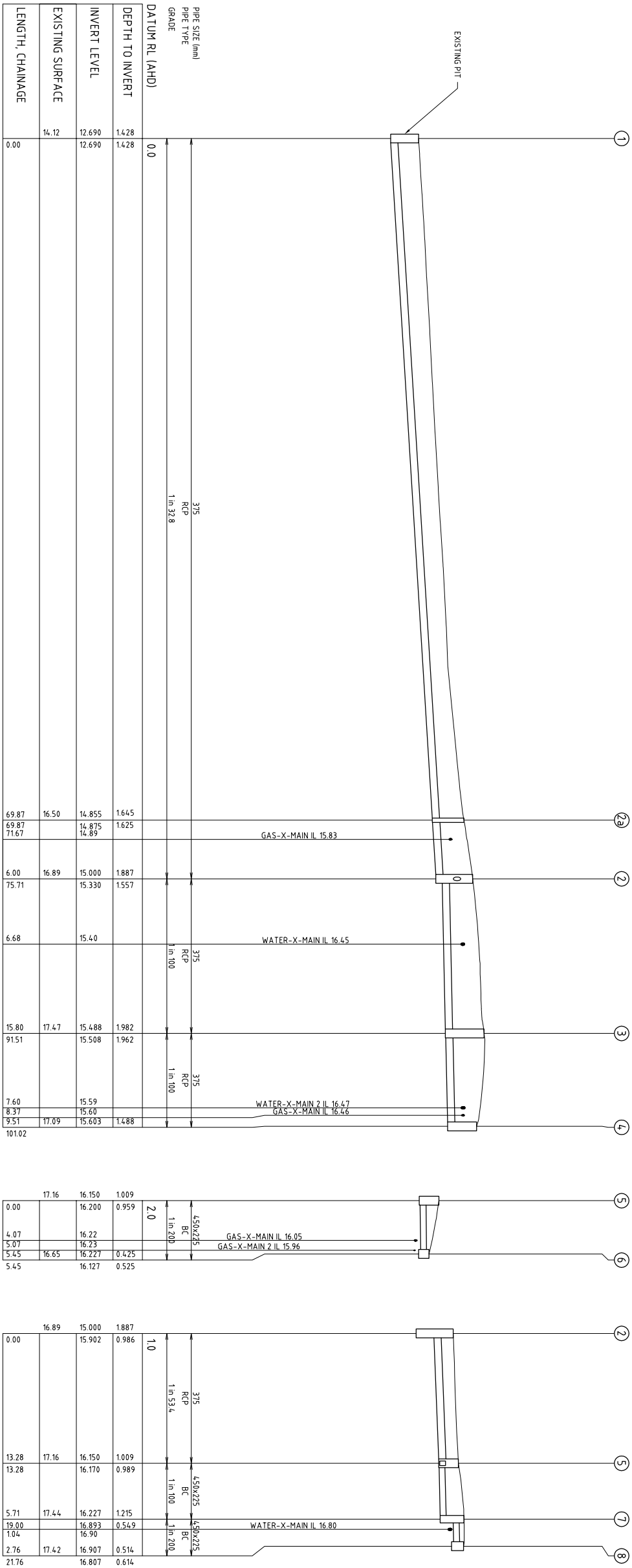


Alignment 4 - LONGITUDINAL SECTION



C/D FILE		PROJECT NUMBER		ENGINEERING SERVICES		STATUS		DRAWING NUMBER	
DESIGNED BY		P. MITROVSKI		CONCEPT DOCS NO.		JOB LOCATION		DERBY AND ORMOND STREET INTERSECTION	
DRAWN BY		P. MITROVSKI		SURVEY REFERENCE		KENSINGTON		STREETSCAPE IMPROVEMENTS & DRAINAGE WORKS	
CHECKED		M. BRAJANOVSKI		SCALE		1:200		ALIGNMENT 4 SETOUT, LONGITUDINAL & CROSS SECTIONS	
PRELIMINARY ISSUE		PM		DATE		-		DOCS NUMBER	
Revision Details		By		Date		-		-	

DRAINAGE PIT SCHEDULE										
PIT NO	TYPE	PIT SIZE	INLET		OUTLET		COVER / GRATE		PIT DEPTH	
			DIA	INV LEV	DIA	INV LEV	COVER LEVEL	TYPE		
1	EXISTING GOFK	EX.	375	12.690			16.118	EXISTING GOFK	1.43	BREAK INTO EXISTING JUNCTION PIT AND MAKE NEW CONNECTION
2	JP	900 x 900	375	15.330	375	15.000	16.887	INSTALL NEW 900 x 900 HEAVY DUTY SOLID GATIC	1.89	CONSTRUCT JUNCTION PIT AS PER MHC STD DWG TP 50318. INSTALL STEP IRONS
2a	JP	450 x 450	375	14.875	375	14.855	16.500	INSTALL NEW 450 x 450 MCC LANE GRATE	1.65	CONSTRUCT JUNCTION PIT AS PER MHC STD DWG TP 50318. INSTALL STEP IRONS
3	GOFK	900 x 750	375	15.508	375	15.488	17.470	INSTALL NEW STANDARD 933 x 545mm FRAME AND GRATE	1.98	CONSTRUCT GRATED PIT WITH PEAK OFK AS PER MHC STD DWG TP 50301. INSTALL STEP IRONS
4	GOFK	900 x 750		375	15.603	17.092	17.092	INSTALL NEW STANDARD 933 x 545mm FRAME AND GRATE	1.49	CONSTRUCT GRATED PIT WITH PEAK OFK AS PER MHC STD DWG TP 50301. INSTALL STEP IRONS
5	JP	900 x 900	450x225	16.200	375	17.159		INSTALL NEW 900 x 900 HEAVY DUTY SOLID GATIC	1.01	CONSTRUCT JUNCTION PIT AS PER MHC STD DWG TP 50318.
6	GOFK	900 x 750	450x225	16.170		16.150	16.652	INSTALL NEW STANDARD 933 x 545mm FRAME AND GRATE	0.43	CONSTRUCT GRATED PIT WITH PEAK OFK AS PER MHC STD DWG TP 50301. REFER TO DETAIL A
7	JP	900 x 900	450x225	16.933	16.893	16.227	17.442	INSTALL NEW 900 x 900 HEAVY DUTY SOLID GATIC	1.22	CONSTRUCT JUNCTION PIT AS PER MHC STD DWG TP 50318. INSTALL STEP IRONS
8	GOFK	900 x 750	450x225	16.907	17.421		17.421	INSTALL NEW STANDARD 933 x 545mm FRAME AND GRATE	0.51	CONSTRUCT GRATED PIT WITH PEAK OFK AS PER MHC STD DWG TP 50301. REFER TO DETAIL A




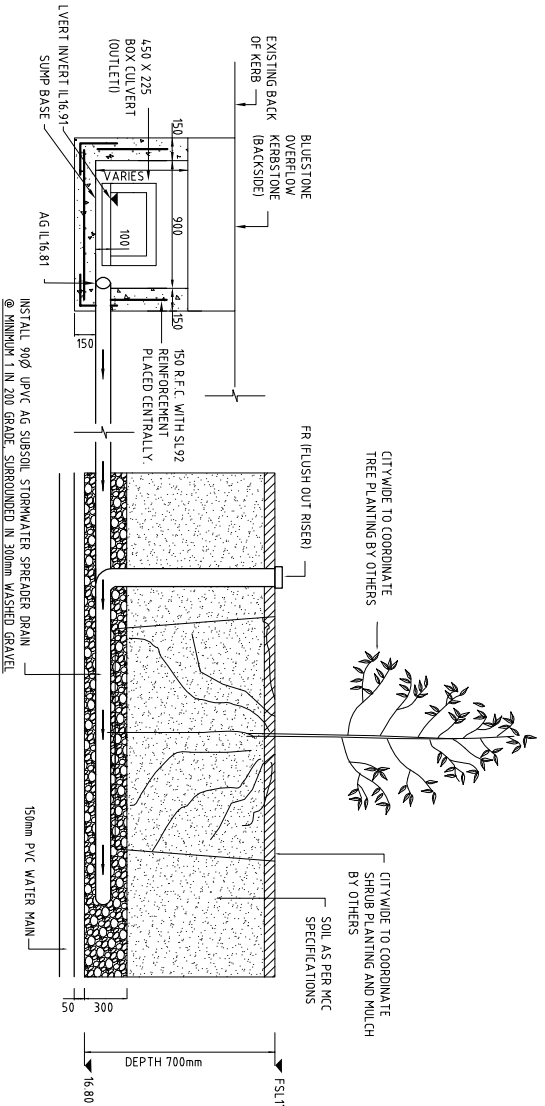
NOTE: ALL SERVICE IL'S ARE TO TOP OF SERVICE

DRAINAGE LONGITUDINAL SECTION

H 1: 250, V 1: 125



		CAD FILE		WK0326978	PROJECT NUMBER	136033N		
		DESIGNED BY		P. MITROVSKI	CONCEPT DOCS NO.			
		DRAWN BY		P. MITROVSKI	SURVEY REFERENCE	CARDNO		
		CHECKED		M. BRAJANOVSKI	SCALE	1200		
		CHECKED DATE		-	DATUM	NGA94/AHD	North Point	
		Rev		By	Date			
A		PRELIMINARY ISSUE		PM	17/07/14			
		Revision Details						
<div><div><div><div>CITY OF</div><div>MELBOURNE</div></div></div><div><div>ENGINEERING SERVICES</div><div><div>APPROVED BY</div><div><div>Principal Engineer</div><div>Group Manager</div></div></div><div><div>-</div><div>-</div></div><div><div>Date</div><div>Date</div></div><div>-</div><div>-</div></div></div> <div><div>STATUS</div><div>JOB LOCATION</div><div>DERBY AND ORMOND STREET INTERSECTION</div><div>KENSINGTON</div><div>STREETSCAPE IMPROVEMENTS & DRAINAGE WORKS</div><div>DRAINAGE PIT SCHEDULE AND LONGITUDINAL SECTION</div></div> <div><div>DRAWING NUMBER</div><div>WK0326978</div><div>NUMBER OF SHEETS</div><div>6 OF 7</div><div>REVISION</div><div>A</div><div>DOCS NUMBER</div><div>-</div></div>								



STREET TREE TRAFFIC ISLAND SOIL AND PLANTER SPECIFICATION

GENERAL OBSERVATIONS.

1. PLANTER TO BE EXCAVATED TO A DEPTH OF 600MM TO 700MM ACCORDING TO A CITY OF MELBOURNE ARBORIST AUTHORIZED EXTENT AND DEPTH REFER TO CONSTRUCTION NOTES 0-14).
2. THE EXPOSED CLAY SUBSOIL IN THE BOTTOM OF THE PLANTING HOLE IS TO BE TREATED WITH GYPSONUM AT A RATE OF 500 G/LM². IF POSSIBLE, THE CLAY SHOULD BE BROKEN UP TO A DEPTH OF 150MM AFTER TREATMENT. THE EXCAVATED SOIL, THIS COULD BE DONE WITH A SMALL BUCKET BACKFILL OR WITH A HIPPER TYPE ON AN EXCAVATOR ARM.
3. THE PLANTER SOIL TO MEET THE FOLLOWING SPECIFICATION:

THE FOOT ZONE IS TO BE A SAND, LOAM OR COARSE SANDY LOAM SOIL OF ~1% ORGANIC MATTER BY WEIGHT. THIS SOIL IS TO BE INSTALLED IN 50 MM LAYS AND COMPACTED GENTLY BY FOOT OR ONE PASS OF A PLATE COMPACTOR. AFTER COMPACTION IT SHOULD STILL BE POSSIBLE TO PUSH A METAL SPINE INTO THE SOIL OR TO DIG INTO THE SOIL WITH A SHOVEL WITH MINIMAL EFFORT. THE LANDSCAPE CONTRACTOR IS NOT TO ADD ANY ORGANIC MATTER TO THE SOIL WITHOUT FIRST SECURING APPROVAL FROM THE LANDSCAPE ARCHITECT. THE SOIL USED IN THE FOOT ZONE MUST BE A STANDARD TOPSOIL (CONVENTIONAL TYPE) WITH A PH OF 5.5 TO 6.5 AND 30 MM% DETERMINED USING THE RETINOSS SET 01 IN 3.5/4.0/4.5/5.0/5.5/6.0/6.5/7.0/7.5/8.0/8.5/9.0/9.5/10.0. THE SOIL USED SHALL HAVE A PH OF BETWEEN 5.5 AND 7.0 AND A MAXIMUM ELECTRICAL CONDUCTIVITY BEFORE THE ADDITION OF FERTILIZER MATERIALS OF 0.5/0.5/0.5/1.0/1.5/2.0/2.5/3.0/3.5/4.0/4.5/5.0/5.5/6.0/6.5/7.0/7.5/8.0/8.5/9.0/9.5/10.0. CORRECTED BEFORE DELIVERY TO THE SITE.

UNLESS SPECIFIED DIFFERENTLY ABOVE, THE SOIL IS TO CONFORM TO ALL CRITERIA FOR NATURAL SOILS AND SOIL BLENDS IN AS 4419 SOILS FOR LANDSCAPE AND GARDEN USE.

THE SURFACE 200 MM IS TO HAVE FINE COMPOSTED ORGANIC MATTER ADDED AT A RATE OF 20% BY VOLUME. ANY COMPOST USED SHOULD CONFORM TO THE DESCRIPTION OF COMPOSTED SOIL CONDITIONER IN AUSTRALIAN STANDARD AS 4454. THE LANDSCAPE CONTRACTOR IS NOT TO ADD ANY OTHER ORGANIC MATTER TO THE SOIL WITHOUT FIRST SEEKING APPROVAL FROM THE LANDSCAPE ARCHITECT.

SAMPLES OF ALL SOIL, ORGANIC MATTER TO BE TESTED BY AN APPROVED LABORATORY PRIOR TO SUPPLY. FINAL APPROVAL FROM THE LANDSCAPE ARCHITECT IS REQUIRED BEFORE ANY OF THESE MATERIALS ARE INSTALLED.

FERTILIZER SPECIFICATIONS

AT SITE/DATE: 2007/07/10	ANALYST: J. L. HARRIS
BEFORE DELIVERY TO THE SITE. THIS SOIL IS TO HAVE ADDED TO IT THE FOLLOWING FERTILIZER MATERIALS:	
POTASSIUM NITRATE	250 G/M3
AMMONIUM NITRATE	400 G/M3
SUPERPHOSPHATE	400 G/M3
MICROHAX * TRACE ELEMENT MIX	300 G/M3
GYPSSUM	500 G/M3*
MAGNESIUM SULPHATE	400 G/M3*

* THESE INGREDIENTS ARE NOT NECESSARY IF PH HAS BEEN CORRECTED WITH DOLOMITIC LIMESTONE OR DOLOMITE OR IF SOIL CHEMICAL ANALYSIS INDICATES NO REQUIREMENT.

AFTER PLANTING PLY OSMOGOTE 32-1, MONTHS LATER RELEASE FERTILIZER (OR EQUIVALENT) TO THE SURFACE OF THE PLANTED AREAS OF THE BED AT 500 G/M². TOTALLY THIS FERTILIZER SHOULD BE APPLIED TO THE SOIL SURFACE PRIOR TO ANY MULCH APPLICATION. IN THE EVENT THAT THE MULCH IS ALREADY APPLIED, THEN APPLY TO THE SURFACE OF THE MULCH.

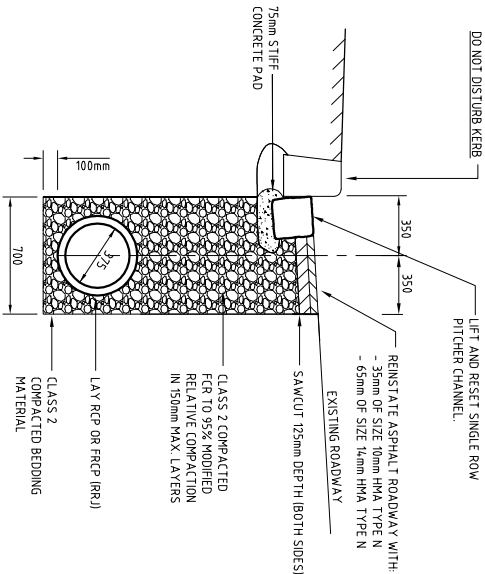
IN THE EVENT THAT AN ALTERNATIVE FERTILIZER PROGRAM IS PROPOSED BY THE CONTRACTOR, APPROVAL MUST FIRST BE SOUGHT FROM THE LANDSCAPE ARCHITECT BEFORE USE.

ORMOND STREET CHANNEL ALIGNMENT - LONGITUDINAL SECTION

Scale H: 1:200
V: 1:100




V: 1:100

CHAINAGE	EXISTING CHANNEL	DESIGN CHANNEL	DATUM RL 8.0	DESIGN GRADING OF CHANNEL
0.000	14.091	14.091	HCP	
				3.07%
10.000	14.398	14.398		VIP RL 14.398m
				2.78%
20.000	14.677	14.677		VIP RL 14.677m
				2.40%
30.000	14.917	14.917		VIP RL 14.917m
				2.93%
40.000	15.210	15.210		VIP RL 15.210m
				3.00%
50.000	15.510	15.510		VIP RL 15.510m
				2.56%
55.000	15.641	15.638		VIP RL 15.638m
				4.99%
60.000	15.888	15.888		VIP RL 15.888m
				4.71%
64.671	16.107	16.107	HCP	



TYPICAL SECTION
(ORMOND STREET) C -

NOT TO SCALE

<div>Cardno Shaping the Future</div> <div>ASB 47 106 610 913 150 Duff Street, Suite 100, Melbourne VIC 3000 Phone +61 3 9415 7777 Fax +61 3 9415 7788 Email: sales@cardno.com.au Web: www.cardno.com/melb</div>																								
	CAD FILE	WK0326978	PROJECT NUMBER	13603IN	<div></div> <div></div>					<div>ENGINEERING SERVICES</div> <div><div>APPROVED BY</div><div><div>Principal Engineer</div><div>-</div><div>Date</div></div><div><div>Group Manager</div><div>-</div><div>Date</div></div></div> <td colspan="5" rowspan="5"><div>STATUS</div><div>JOB LOCATION</div><div>DERBY AND ORMOND STREET INTERSECTION KENSINGTON STREETSCAPE IMPROVEMENTS & DRAINAGE WORKS ORMOND ST CHANNEL LONGITUDINAL SECTION & DETAILS</div></td> <td colspan="5" rowspan="5"><div>PRELIMINARY</div><div>DRAWING NUMBER</div><div>WK0326978</div><div>NUMBER OF SHEETS</div><div>7 OF 7</div><div>REVISION</div><div>A</div></td>					<div>STATUS</div> <div>JOB LOCATION</div> <div>DERBY AND ORMOND STREET INTERSECTION KENSINGTON STREETSCAPE IMPROVEMENTS & DRAINAGE WORKS ORMOND ST CHANNEL LONGITUDINAL SECTION & DETAILS</div>					<div>PRELIMINARY</div> <div>DRAWING NUMBER</div> <div>WK0326978</div> <div>NUMBER OF SHEETS</div> <div>7 OF 7</div> <div>REVISION</div> <div>A</div>				
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	CHECKED	M. BRAJANDOVSKI	SCALE	1:200																				
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