

# TILLERMAN

## PARK RIDGE

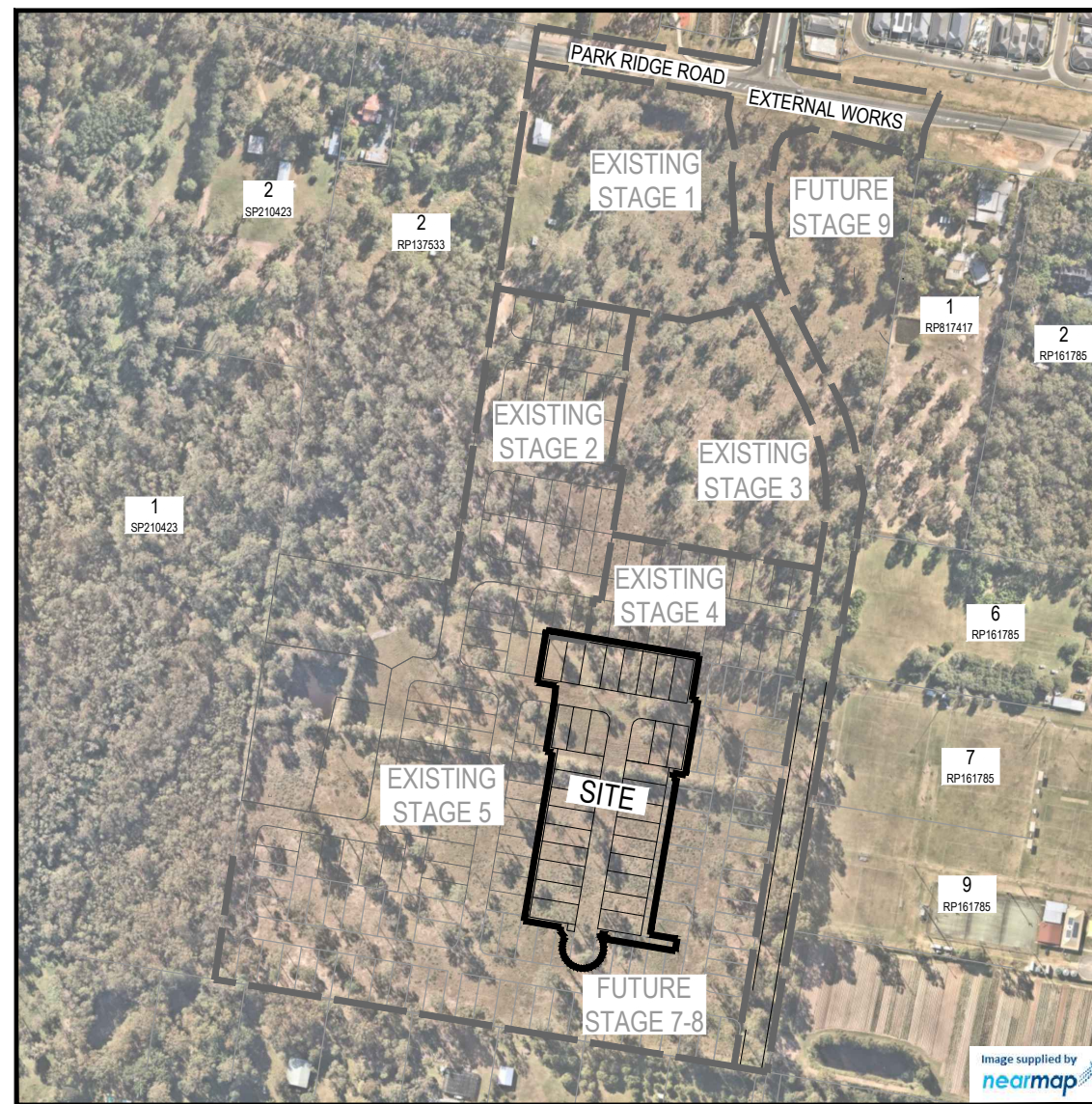
# PROPOSED RESIDENTIAL DEVELOPMENT

STAGE 6 OPERATIONAL WORKS  
 133-159 PARK RIDGE ROAD, PARK RIDGE  
 FOR 'HB PARK RIDGE'

### DRAWING LIST

#### SEWERAGE AND WATER RETICULATION

- 22-0447-300 SEWERAGE AND WATER RETICULATION COVER PLAN
- 22-0447-301 SEWERAGE AND WATER RETICULATION GENERAL NOTES
- 22-0447-302 SEWERAGE AND WATER RETICULATION LIVE WORKS DETAILS
- 22-0447-303 SEWERAGE LAYOUT PLAN
- 22-0447-304 SEWERAGE LONGITUDINAL SECTIONS SHEET 1 OF 3
- 22-0447-305 SEWERAGE LONGITUDINAL SECTIONS SHEET 2 OF 3
- 22-0447-306 SEWERAGE LONGITUDINAL SECTIONS SHEET 3 OF 3
- 22-0447-307 WATER RETICULATION LAYOUT PLAN
- 22-0447-308 FIRE HYDRANT REACH LAYOUT PLAN



LOCALITY PLAN  
 SCALE 1:2500 (A1)  
 SCALE 1:5000 (A3)

**ENGINEER'S CERTIFICATION**

I, Dan Collins, hereby certify that:

1. The information contained in this drawing / document is in compliance with approved drawings and design.
2. The new water and sewerage works defined by this drawing have been designed and constructed in accordance with the SEQ code.
3. This generally represents an accurate record of as-constructed works
4. I accept responsibility for the information contained in this drawing / document.

RPEQ (signature) RPEQ No. 18631 Date: 09/10/24

ESTATE/STAGE		TILLERMAN STAGE 6				
CLIENT		HB PARK RIDGE				
LOGAN WATER APPLICATION No.		COM/36/2021				
LOGAN WATER APPROVAL DATE						
No. OF ALLOTMENTS		32				
ASSET REGISTER - SEWERAGE						
MAINS	DIAMETER	MATERIAL		LENGTH		
		DESIGN	CONST	DESIGN	CONST	
		DN150	uPVC SN8	-	<del>474m</del>	457m
DN225	uPVC SN8	-	-	-		
ASSET REGISTER - WATER RETICULATION						
MAINS	DIAMETER	MATERIAL		LENGTH		
		DESIGN	CONST	DESIGN	CONST	
		DN150	PE100 PN16	-	<del>265m</del>	264m
		DN180	PE100 PN16	-	-	-
DN250	PE100 PN16	-	-	-		
SERVICES	DIAMETER	MATERIAL		LENGTH		
		DESIGN	CONST	DESIGN	CONST	
		DN25	PE100 PN16	-	<del>26m</del>	16m
		2 x DN25	PE100 PN16	-	-	133m
		DN32	PE100 PN16	-	<del>42m</del>	-
DN40	PE100 PN16	-	<del>97m</del>	-		
METERS	DIAMETER	NUMBER				
		DESIGN	CONST			
		200	<del>31</del>			
		250	-			
320	-					

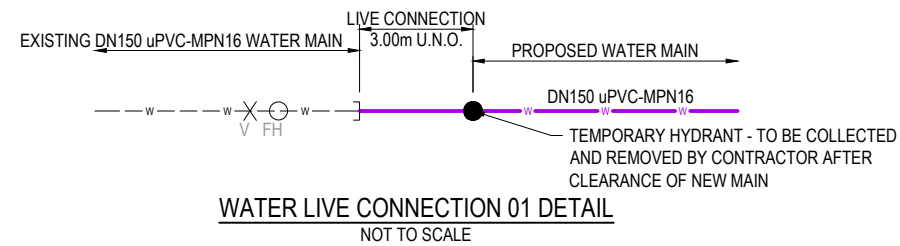
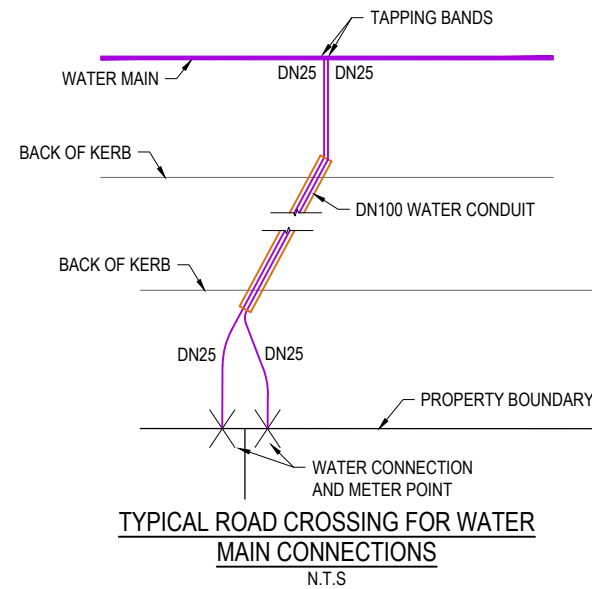
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>REV</th> <th>DATE</th> <th>DESIGN</th> <th>DRAWN</th> <th>ISSUED FOR CONSTRUCTION</th> </tr> <tr> <td>1</td> <td>27.05.24</td> <td>CL</td> <td>CL</td> <td>ISSUED FOR CONSTRUCTION</td> </tr> <tr> <td>2</td> <td>09.10.24</td> <td>CL</td> <td>BP</td> <td>AS CONSTRUCTED</td> </tr> </table>	REV	DATE	DESIGN	DRAWN	ISSUED FOR CONSTRUCTION	1	27.05.24	CL	CL	ISSUED FOR CONSTRUCTION	2	09.10.24	CL	BP	AS CONSTRUCTED	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>DRAWN</th> <th>STATUS</th> </tr> <tr> <td></td> <td style="text-align: center;"><b>AS CONSTRUCTED</b></td> </tr> </table>	DRAWN	STATUS		<b>AS CONSTRUCTED</b>		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>DESIGN</th> <th>APPROVED</th> <th>RPEQ</th> <th>DATE</th> </tr> <tr> <td></td> <td>DANIEL COLLINS</td> <td>18631</td> <td>9.10.24</td> </tr> </table> <p style="font-size: small;">FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING &amp; DESIGN PTY LTD</p>	DESIGN	APPROVED	RPEQ	DATE		DANIEL COLLINS	18631	9.10.24	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>SCALE</th> </tr> <tr> <td>1:2500 50 0 50 100 A1 1:5000</td> </tr> </table>	SCALE	1:2500 50 0 50 100 A1 1:5000	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>CLIENT</th> </tr> <tr> <td style="text-align: center;"> </td> </tr> <tr> <td style="font-size: x-small;">ASSOCIATED CONSULTANT SAUNDERS HAVILL GROUP PH: 1300 123 744</td> </tr> </table>	CLIENT		ASSOCIATED CONSULTANT SAUNDERS HAVILL GROUP PH: 1300 123 744	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>PROJECT NAME</th> </tr> <tr> <td style="text-align: center;"> </td> </tr> <tr> <td style="font-size: x-small;">STAGE 6 133-159 PARK RIDGE ROAD, PARK RIDGE</td> </tr> </table>	PROJECT NAME		STAGE 6 133-159 PARK RIDGE ROAD, PARK RIDGE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="3">DRAWING TITLE</th> </tr> <tr> <td colspan="3" style="text-align: center;"><b>SEWERAGE AND WATER RETICULATION COVER PLAN</b></td> </tr> <tr> <td style="font-size: x-small;">PROJECT No.</td> <td style="font-size: x-small;">DRAWING No.</td> <td style="font-size: x-small;">REVISION</td> </tr> <tr> <td style="text-align: center;"><b>22-0447</b></td> <td style="text-align: center;"><b>300</b></td> <td style="text-align: center;"><b>2</b></td> </tr> </table>	DRAWING TITLE			<b>SEWERAGE AND WATER RETICULATION COVER PLAN</b>			PROJECT No.	DRAWING No.	REVISION	<b>22-0447</b>	<b>300</b>	<b>2</b>
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**LIVE WORKS NOTES:**

- ALL LIVE WORKS SHALL BE UNDERTAKEN BY THE CONTRACTOR IN ACCORDANCE WITH AN APPROVED NETWORKS ACCESS PERMIT, UNDER THE SUPERVISION OF LCC, AT THE DEVELOPERS EXPENSE.
- LIVE WORKS CANNOT COMMENCE UNTIL ALL RELEVANT TEST CERTIFICATES HAVE BEEN PROVIDED AND ACCEPTED BY LCC.



**WATER RETICULATION LIVE CONNECTIONS**

CONNECTION 1	
STREET	ROAD 05
LOCATION	LOT 602
LENGTH	3.00m TYPE OF MAIN 150Ø PVC-M PN16
DATE COMMENCED	DATE COMPLETED
SIGNATURE	

**LIVE SEWER WORKS**

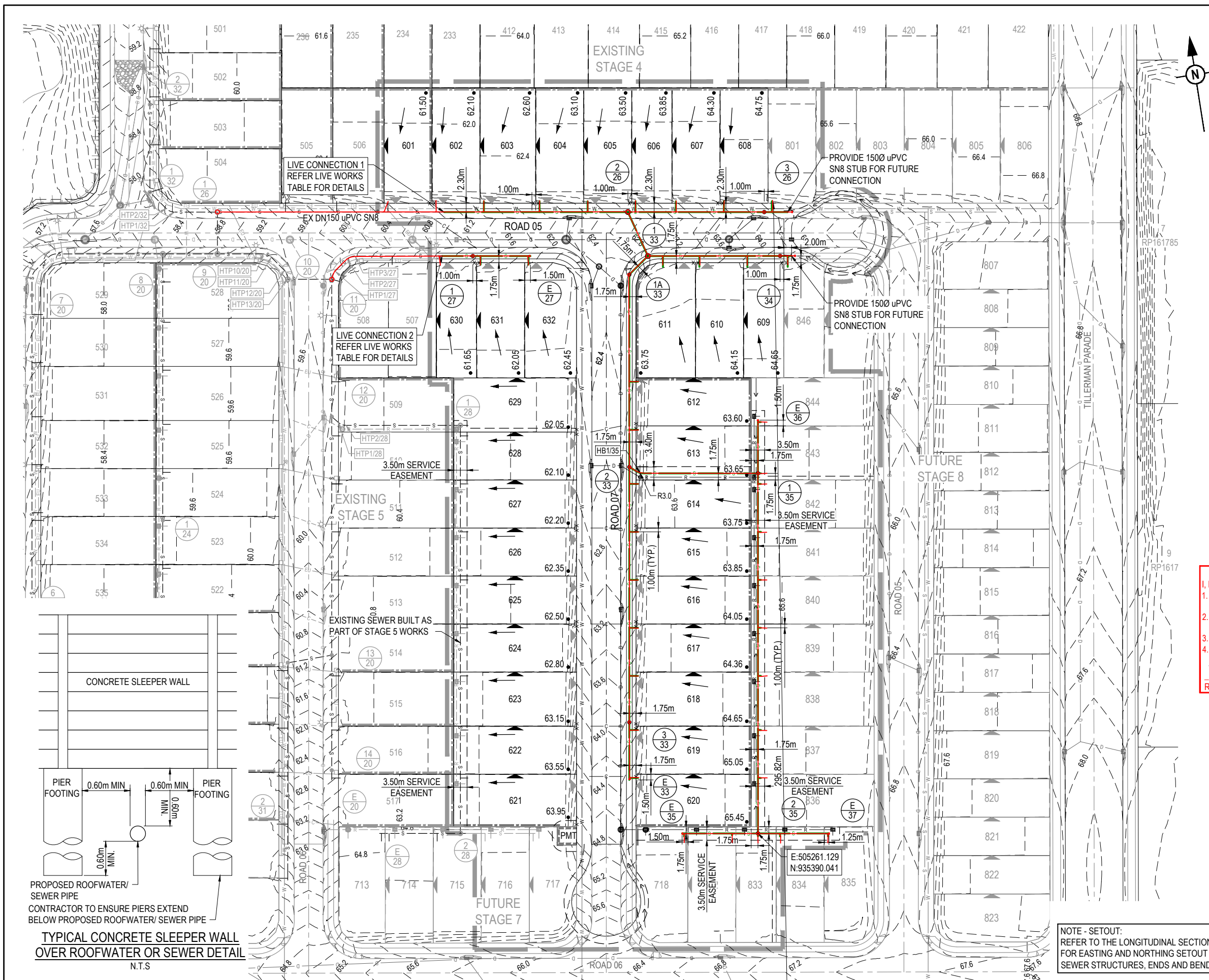
No.	DESCRIPTION	DIA. SEWER	EXISTING ASSET ID AT CONNECTION	MH/MS TYPE	COVER TYPE	LOT & PLAN No.	F.S.L.	E.S.L.	CONNECTION I.L.	CONNECTION DEPTH TO INVERT	ALTERATION TO EXISTING MH BENCHING REQUIRED (Y/N)
1 (A)	0.50m FROM EXISTING STUB, CONSTRUCTOR, TO LAY NEW SEWERS. AFTER CLEANSING, TESTING AND INSPECTION, NOTIFY AGENCY.	150Ø	-	<del>LINE</del> 2/26	-	602	<del>61.110</del> 62.84	<del>60.910</del>	<del>58.374</del> 60.19	<del>2.736</del> 2.65	-
1 (B)	AGENCY TO REMOVE TEMPORARY END CAP ON EXISTING STUB AND MAKE LIVE CONNECTION AFTER SUCCESSFUL 'ON MAINTENANCE' INSPECTION.										
2 (A)	0.50m FROM EXISTING STUB, CONSTRUCTOR, TO LAY NEW SEWERS. AFTER CLEANSING, TESTING AND INSPECTION, NOTIFY AGENCY.	150Ø	-	<del>LINE</del> 1/27	-	630	<del>61.069</del> 61.38	<del>62.75</del>	<del>59.202</del> 59.61	<del>1.867</del> 1.77	-
2 (B)	AGENCY TO REMOVE TEMPORARY END CAP ON EXISTING STUB AND MAKE LIVE CONNECTION AFTER SUCCESSFUL 'ON MAINTENANCE' INSPECTION.										

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RPEQ (signature) RPEQ No. 18631 Date: 09/10/24

REV	DATE	DESIGN	DRAWN	REVISION DETAILS	DRAWN	STATUS	SCALE	CLIENT	PROJECT NAME	DRAWING TITLE	PROJECT No.	DRAWING No.	REVISION
1	27.05.24	CL	CL	ISSUED FOR CONSTRUCTION		<b>AS CONSTRUCTED</b>				<b>SEWERAGE AND WATER RETICULATION LIVE WORKS DETAILS</b>	22-0447	302	2
2	09.10.24	CL	BP	AS CONSTRUCTED									
					DESIGN	APPROVED		ASSOCIATED CONSULTANT	STAGE 6				
						DANIEL COLLINS	RPEQ 18631	SAUNDERS HAVILL GROUP	133-159 PARK RIDGE ROAD, PARK RIDGE				
							DATE 9.10.24	PH: 1300 123 744					
						FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD							



**LEGEND**

	PROPOSED AREA OF WORKS
	PROPOSED SEWER MAIN
	EXISTING SEWER MAIN
	SEWER LOT CONTROL SURFACE LEVEL
	INDICATIVE DRIVEWAY LOCATION
	ZERO LOT BOUNDARY
	FINISHED SURFACE CONTOUR
	PROPOSED STORMWATER DRAINAGE PIPE
	FUTURE STORMWATER DRAINAGE PIPE
	EXISTING STORMWATER DRAINAGE PIPE
	PROPOSED ROOFWATER DRAINAGE PIPE
	EXISTING ROOFWATER DRAINAGE PIPE
	FUTURE SEWER MAIN
	PROPOSED WATER MAIN
	FUTURE WATER MAIN
	EXISTING WATER MAIN
	PROPOSED WATER SERVICE POINT
	ELECTRICAL PILLAR - REFER ELECTRICAL DRAWINGS FOR DESIGN
	PROPOSED RETAINING WALL
	EXISTING RETAINING WALL
	PROPOSED ROCK RETAINING WALL
	EXISTING ROCK RETAINING WALL
	EXISTING ELECTRICAL CABLE U/G

**AS CONSTRUCTED LEGEND**

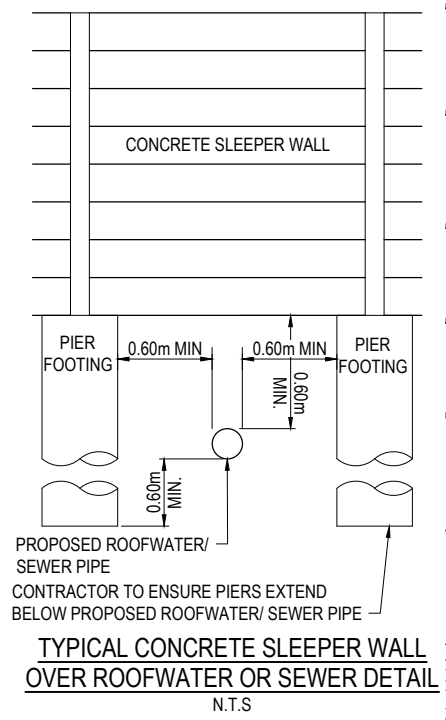
	SEWERAGE MAIN
	SEWERAGE MANHOLE
	END CAP
	REDUCER

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**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.

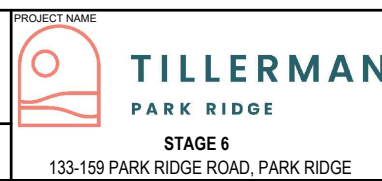
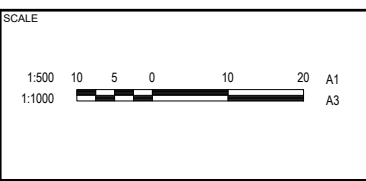
**RP DESCRIPTION**  
 LOT 3 ON SP137533  
**DATUM LEVEL AND LOCATION**  
 PM70079 RL 57.043 AHD  
 LOCATED: 133-159 PARK RIDGE ROAD, PARK RIDGE

NOTE - SETOUT:  
 REFER TO THE LONGITUDINAL SECTIONS FOR EASTING AND NORTHING SETOUT OF SEWER STRUCTURES, ENDS AND BENDS.



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2	09.10.24	CL	BP	AS CONSTRUCTED

DESIGN	APPROVED	RPEQ	DATE
DANIEL COLLINS	DANIEL COLLINS	18631	9.10.24



<b>PROJECT No.</b>	<b>DRAWING No.</b>	<b>REVISION</b>
22-0447	303	2

STRUCTURE NAME	9/20	1/26	2/26	3/26	4/26	5/26
STRUCTURE TYPE & DROP	P2-1050mm V	P2-1050mm V	P2-1050mm V	J V	P2-1200mm V	J V
STRUCTURE LID TYPE	B	B	B	B	D	B
JUNCT. LINE No.	20	32	33		38	
JUNCT. DROP TYPES	X	V	V	V	V	V

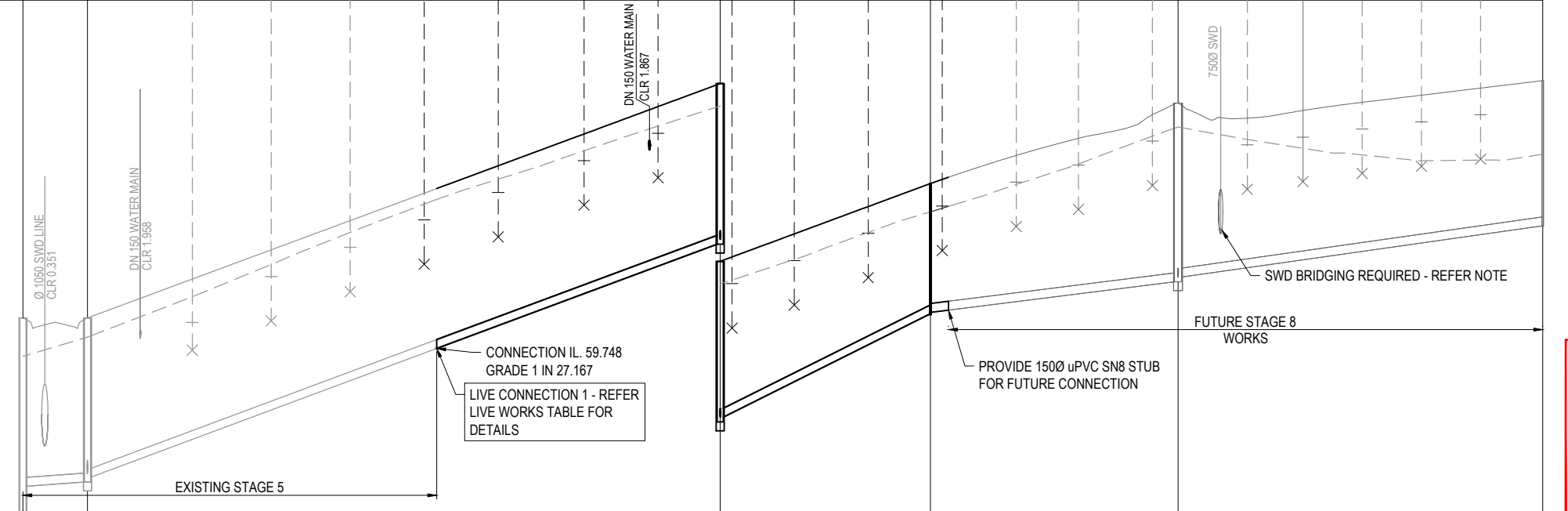
DEPTH TO HC						
HC INVERT LEVEL						
HC TYPE						
HC LOT No.						
CH FROM DS STRUCTURE						

**STRUCTURE TYPES**  
 C2 = CAST-IN-SITU 1.500Ø / 1.200Ø  
 P2 = PRE-CAST CONCRETE 1.050Ø  
 MS = uPVC TYPE 'J1' MAINTENANCE SHAFT  
**MH DROP TYPES:**  
 AS PER SEQ STD DRG SEQ-SEW-1303-1  
**MS DROP TYPES:**  
 MS-V = 30mm DROP THROUGH BULB  
 MS-Z = >750mm DROP INTO RISER  
**LID TYPES**  
 B = NON-TRAFFICABLE  
 D = TRAFFICABLE  
 D(BD) = TRAFFICABLE WITH BOLT DOWN

**NOTE: PE LINING OF MANHOLES:**  
 MAINTENANCE HOLES ≥ 1500Ø IN DIA OR ≥ 4.0m IN DEPTH, REQUIRE PE LINED PROTECTIVE COATING

**# EMBEDMENT NOTE:**  
 PIPE EMBEDMENT & TRENCHFILL SHALL BE IN ACCORDANCE WITH SEQ-SEW-1200-2, 1201-1 TO 1201-5. TYPE 3 SUPPORT IS PROPOSED UNTIL FINAL GEOTECHNICAL INVESTIGATIONS ARE COMPLETED PRIOR TO CONSTRUCTION.

**\* STORMWATER BRIDGING NOTE:**  
 WHERE A STORMWATER PIPE ≥ 600mm DIA CROSSES OVER A SEWER, THE STORMWATER PIPE SHALL BE SUPPORTED BY A BRIDGE STRUCTURE THAT SPANS THE SEWER TRENCH. REFER PEAK URBAN STD DRG S-100.



DATUM RL(m)	53.0		56.0			
LAND USE			ROAD RESERVE			
PIPE DIA & TYPE	Ø150uPVC SN8		Ø150uPVC SN8			
PIPE GRADE (1 in x)	1 IN 153	27.84 1 IN 27.167	20.40 1 IN 26.468	1 IN 81.082	1 IN 71.429	
EMBEDMENT	# TYPE 3		# TYPE 3			
JUNCTION INVERT LEVEL	56.049		60.214		62.580	
DEPTH TO INVERT	3.431	2.841	2.76	2.69	3.015	2.451
SEWER INVERT LEVEL	55.459	56.049	56.120	56.214	62.500	62.880
DESIGN SURFACE LEVEL	56.890	56.241	56.120	56.214	65.515	65.111
EXISTING SURFACE	56.241	56.565	62.467	63.680	65.111	64.651
SETOUT	505147.624	505562.416	505254.816	505331.051	505320.308	505320.308
RUNNING CHAINAGE	0.000	10.900	117.775	153.275	195.100	266.700

LINE NUMBER	LINE 26					
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 RPEQ (signature) RPEQ No. 18631 Date: 09/10/24

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STRUCTURE NAME	11/20	HTP1/27	HTP2/27	HTP3/27	1/27	E/27
STRUCTURE TYPE & DROP	P2-10500	R3.00 H	HTP	HTP	R3.00 H	J V
STRUCTURE LID TYPE	B					B V
JUNCT. LINE No.	20					
JUNCT. DROP TYPES	V					V
DEPTH TO HC	0.000		9.678	22.178	2.000	14.500
HC INVERT LEVEL	59.384		59.375	59.83 1.34	60.266 1.200	60.80 1.18
HC TYPE	D		B	B	B	B
HC LOT No.	508		507	630	631	632
CH FROM DS STRUCTURE	0.000		9.678	22.178	2.000	14.500
STRUCTURE TYPES C2 = CAST-IN-SITU 1.5000 / 1.2000 P2 = PRE-CAST CONCRETE 1.0500 MS = uPVC TYPE 'J' MAINTENANCE SHAFT MH DROP TYPES: AS PER SEQ STD DRG SEQ-SEW-1303-1 MS DROP TYPES: MS-V = 30mm DROP THROUGH BULB MS-Z = >750mm DROP INTO RISER LID TYPES B = NON-TRAFFICABLE D = TRAFFICABLE D(BD) = TRAFFICABLE WITH BOLT DOWN						
NOTE: PE LINING OF MANHOLES: MAINTENANCE HOLES ≥ 1500Ø IN DIA OR ≥ 4.0m IN DEPTH, REQUIRE PE LINED PROTECTIVE COATING						
# EMBEDMENT NOTE: PIPE EMBEDMENT & TRENCHFILL SHALL BE IN ACCORDANCE WITH SEQ-SEW-1200-2, 1201-1 TO 1201-5. TYPE 3 SUPPORT IS PROPOSED UNTIL FINAL GEOTECHNICAL INVESTIGATIONS ARE COMPLETED PRIOR TO CONSTRUCTION.						
* STORMWATER BRIDGING NOTE: WHERE A STORMWATER PIPE ≥ 600mm DIA CROSSES OVER A SEWER, THE STORMWATER PIPE SHALL BE SUPPORTED BY A BRIDGE STRUCTURE THAT SPANS THE SEWER TRENCH. REFER PEAK URBAN STD DRG S-100.						
DATUM RL(m)	53.0					
LAND USE	ROAD RESERVE					
PIPE DIA & TYPE	Ø150uPVC SN8					
PIPE GRADE (1 in x)	1 IN 22.222					
EMBEDMENT	# TYPE 3					
JUNCTION INVERT LEVEL	57.770					
DEPTH TO INVERT	3.243	1.814	1.766	1.875	2.05	2.65
SEWER INVERT LEVEL	56.340	57.770	57.876	58.072	59.81	60.27
DESIGN SURFACE LEVEL	59.584	59.642	59.946	60.141	61.36	61.92
EXISTING SURFACE	59.257	59.339	59.539	59.658	60.815	61.334
SETOUT	505175.847	505177.068	505180.610	505182.849	505200.348	505205.817
RUNNING CHAINAGE	0.000	2.356	4.344	6.700	9.056	11.412

LINE NUMBER LINE 27

STRUCTURE NAME	2/26	1/33	1A/33	2/33	3/33	E/33
STRUCTURE TYPE & DROP	P2-10500	P2-10500	J V	J V	J V	END
STRUCTURE LID TYPE	B	B	D	B	B	B
JUNCT. LINE No.	26	34		35		
JUNCT. DROP TYPES	V	V	V	V	V	V
DEPTH TO HC						
HC INVERT LEVEL		61.51 1.26	61.55 1.31	61.61 1.31	61.79 1.33	62.00 1.42
HC TYPE		B	B	B	B	B
HC LOT No.		612	613	614	615	616
CH FROM DS STRUCTURE		27.357	40.174	4.403	16.903	29.403
STRUCTURE TYPES C2 = CAST-IN-SITU 1.5000 / 1.2000 P2 = PRE-CAST CONCRETE 1.0500 MS = uPVC TYPE 'J' MAINTENANCE SHAFT MH DROP TYPES: AS PER SEQ STD DRG SEQ-SEW-1303-1 MS DROP TYPES: MS-V = 30mm DROP THROUGH BULB MS-Z = >750mm DROP INTO RISER LID TYPES B = NON-TRAFFICABLE D = TRAFFICABLE D(BD) = TRAFFICABLE WITH BOLT DOWN						
NOTE: PE LINING OF MANHOLES: MAINTENANCE HOLES ≥ 1500Ø IN DIA OR ≥ 4.0m IN DEPTH, REQUIRE PE LINED PROTECTIVE COATING						
# EMBEDMENT NOTE: PIPE EMBEDMENT & TRENCHFILL SHALL BE IN ACCORDANCE WITH SEQ-SEW-1200-2, 1201-1 TO 1201-5. TYPE 3 SUPPORT IS PROPOSED UNTIL FINAL GEOTECHNICAL INVESTIGATIONS ARE COMPLETED PRIOR TO CONSTRUCTION.						
* STORMWATER BRIDGING NOTE: WHERE A STORMWATER PIPE ≥ 600mm DIA CROSSES OVER A SEWER, THE STORMWATER PIPE SHALL BE SUPPORTED BY A BRIDGE STRUCTURE THAT SPANS THE SEWER TRENCH. REFER PEAK URBAN STD DRG S-100.						
DATUM RL(m)	57.0					
LAND USE	ROAD RESERVE					
PIPE DIA & TYPE	Ø150uPVC SN8					
PIPE GRADE (1 in x)	1 IN 180					
EMBEDMENT	# TYPE 3					
JUNCTION INVERT LEVEL	60.214	61.353	61.593	61.82	62.00	62.15
DEPTH TO INVERT	2.76	2.06	2.51	1.85	1.87	1.85
SEWER INVERT LEVEL	60.08	60.33	60.48	60.84	61.15	62.00
DESIGN SURFACE LEVEL	62.824	62.969	63.207	63.497	63.802	64.168
EXISTING SURFACE	62.518	62.207	62.018	62.018	62.018	62.018
SETOUT	505254.816	505258.031	505262.462	505266.893	505271.324	505275.755
RUNNING CHAINAGE	0.000	12.63	24.26	36.89	49.52	62.15

LINE NUMBER LINE 33

STRUCTURE NAME	1/33	1/34	E/34
STRUCTURE TYPE & DROP	P2-10500	J V	END
STRUCTURE LID TYPE	B	B	B
JUNCT. LINE No.	33		
JUNCT. DROP TYPES	V	V	V
DEPTH TO HC			
HC INVERT LEVEL	61.984 1.200	62.35 1.32	62.82 1.31
HC TYPE	B	B	B
HC LOT No.	611	610	609
CH FROM DS STRUCTURE	3.921	13.421	25.921
STRUCTURE TYPES C2 = CAST-IN-SITU 1.5000 / 1.2000 P2 = PRE-CAST CONCRETE 1.0500 MS = uPVC TYPE 'J' MAINTENANCE SHAFT MH DROP TYPES: AS PER SEQ STD DRG SEQ-SEW-1303-1 MS DROP TYPES: MS-V = 30mm DROP THROUGH BULB MS-Z = >750mm DROP INTO RISER LID TYPES B = NON-TRAFFICABLE D = TRAFFICABLE D(BD) = TRAFFICABLE WITH BOLT DOWN			
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DATUM RL(m)	56.0		
LAND USE	ROAD RESERVE		
PIPE DIA & TYPE	Ø150uPVC SN8		
PIPE GRADE (1 in x)	1 IN 26.640		
EMBEDMENT	# TYPE 3		
JUNCTION INVERT LEVEL	61.333	62.66	63.99
DEPTH TO INVERT	2.61	1.69	1.52
SEWER INVERT LEVEL	60.38	61.33	62.47
DESIGN SURFACE LEVEL	62.997	63.30	63.759
EXISTING SURFACE	62.354	63.541	63.975
SETOUT	505254.031	505258.744	505263.457
RUNNING CHAINAGE	0.000	34.35	68.70

LINE NUMBER LINE 34

EXISTING STAGE 5  
CONNECTION I.L. 61.427  
GRADE 1 IN 22.222  
LIVE CONNECTION 2 - REFER LIVE WORKS TABLE FOR DETAILS

SWD BRIDGING REQUIRED - REFER NOTE

PROVIDE 150Ø uPVC SN8 STUB FOR FUTURE CONNECTION FUTURE STAGE 8 WORKS

**ENGINEER'S CERTIFICATION**  
I, Dan Collins, hereby certify that:  
1. The information contained in this drawing / document is in compliance with approved drawings and design.  
2. The new water and sewerage works defined by this drawing have been designed and constructed in accordance with the SEQ code.  
3. This generally represents an accurate record of as-constructed works  
4. I accept responsibility for the information contained in this drawing / document.

RPEQ (signature) RPEQ No. 18631 Date: 09/10/24

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FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD

APPROVED DANIEL COLLINS RPEQ 18631 DATE 9.10.24

ASSOCIATED CONSULTANT SAUNDERS HAVILL GROUP PH: 1300 123 744

STAGE 6 133-159 PARK RIDGE ROAD, PARK RIDGE

STRUCTURE NAME	2/33	HB1/35	1/35	2/35	E/35
STRUCTURE TYPE & DROP	J V	HTP	HTP	J V	END
STRUCTURE LID TYPE	B			B	
JUNCT. LINE No.	33		90°	37	90°
JUNCT. DROP TYPES	Z		V	V	
DEPTH TO HC					
HC INVERT LEVEL					
HC TYPE					
HC LOT No.					
CH FROM DS STRUCTURE					
STRUCTURE TYPES	C2 = CAST-IN-SITU 1.500Ø / 1.200Ø P2 = PRE-CAST CONCRETE 1.050Ø MS = uPVC TYPE 'J1' MAINTENANCE SHAFT MH DROP TYPES: AS PER SEQ STD DRG SEQ-SEW-1303-1 MS DROP TYPES: MS-V = 30mm DROP THROUGH BULB MS-Z = >750mm DROP INTO RISER LID TYPES B = NON-TRAFFICABLE D = TRAFFICABLE D(BD) = TRAFFICABLE WITH BOLT DOWN				
NOTE: PE LINING OF MANHOLES:	MAINTENANCE HOLES ≥ 1500Ø IN DIA OR ≥ 4.0m IN DEPTH, REQUIRE PE LINED PROTECTIVE COATING				
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DATUM RL(m)	58.0				
LAND USE					
PIPE DIA & TYPE	uPVC SN8 *150				
PIPE GRADE (1 in x)	<del>+1 IN 26.316</del> <del>+1 IN 26.316</del> <del>+1 IN 26.316</del> <del>+1 IN 49.905</del> <del>+1 IN 100.000</del>				
EMBEDMENT	# TYPE 3				
JUNCTION INVERT LEVEL	61.581		62.900		65.050
DEPTH TO INVERT	2.51	1.65	0.95	2.28	1.55
SEWER INVERT LEVEL	60.38	61.25	61.95	62.72	63.50
DESIGN SURFACE LEVEL	62.686	62.69	62.829	62.829	62.829
EXISTING SURFACE	62.090	62.174	62.230	63.164	66.069
SETOUT	505244.075	935487.753	505245.878	935488.206	505247.330
RUNNING CHAINAGE	0.000	2.376	33.75	1.623	29.918
			93.79	93.800	








STRUCTURE NAME	1/35	E/36	2/35	E/37
STRUCTURE TYPE & DROP	J V	END	J V	END
STRUCTURE LID TYPE	B		B	
JUNCT. LINE No.	35		35	
JUNCT. DROP TYPES	V		Z	
DEPTH TO HC				
HC INVERT LEVEL				
HC TYPE				
HC LOT No.				
CH FROM DS STRUCTURE				
STRUCTURE TYPES	C2 = CAST-IN-SITU 1.500Ø / 1.200Ø P2 = PRE-CAST CONCRETE 1.050Ø MS = uPVC TYPE 'J1' MAINTENANCE SHAFT MH DROP TYPES: AS PER SEQ STD DRG SEQ-SEW-1303-1 MS DROP TYPES: MS-V = 30mm DROP THROUGH BULB MS-Z = >750mm DROP INTO RISER LID TYPES B = NON-TRAFFICABLE D = TRAFFICABLE D(BD) = TRAFFICABLE WITH BOLT DOWN			
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DATUM RL(m)	57.0			
LAND USE				
PIPE DIA & TYPE	uPVC SN8 *150			
PIPE GRADE (1 in x)	<del>+1 IN 26.316</del> <del>+1 IN 26.316</del> <del>+1 IN 26.316</del> <del>+1 IN 49.905</del> <del>+1 IN 100.000</del>			
EMBEDMENT	# TYPE 3			
JUNCTION INVERT LEVEL	62.900		65.050	
DEPTH TO INVERT	2.03	2.16	2.28	1.68
SEWER INVERT LEVEL	62.86	62.89	62.77	63.25
DESIGN SURFACE LEVEL	66.109	65.06	66.962	67.06
EXISTING SURFACE	63.164	66.069	66.069	66.484
SETOUT	505275.826	935482.518	505275.144	935496.173
RUNNING CHAINAGE	0.000	13.96	18.59	18.500
			64.93	

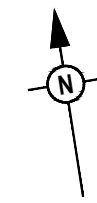
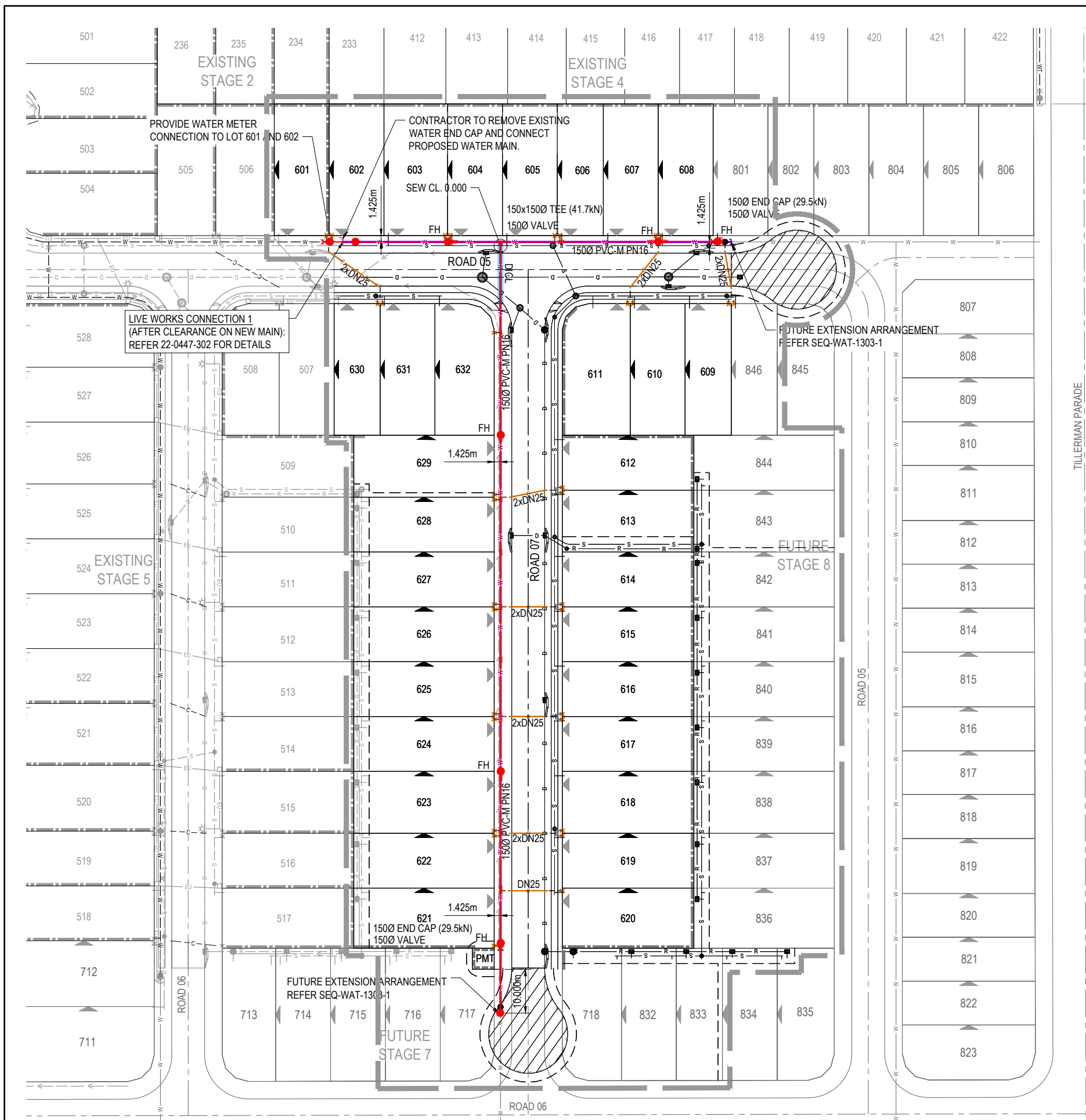
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 RPEQ (signature) RPEQ No. 18631 Date: 09/10/24

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**LEGEND**

	PROPOSED AREA OF WORKS
	PROPOSED WATER MAIN
	PROPOSED DICL WATER MAIN
	EXISTING WATER MAIN
	PROPOSED WATER CONDUIT
	PROPOSED ROAD CONTOUR
	INDICATIVE DRIVEWAY LOCATION
	ZERO LOT BOUNDARY
	PROPOSED STORMWATER DRAINAGE PIPE
	EXISTING STORMWATER DRAINAGE PIPE
	PROPOSED ROOFWATER DRAINAGE PIPE
	EXISTING ROOFWATER DRAINAGE PIPE
	PROPOSED SEWER MAIN
	EXISTING SEWER MAIN
	FUTURE WATER MAIN
	PROPOSED ELECTRICAL CABLE U/G (BY OTHER)

**WATER FITTINGS LEGEND**

PROPOSED:

	FIRE HYDRANT
	ISOLATION VALVE
	DEAD END
	REDUCER
	WATER SERVICE POINT

EXISTING:

	FIRE HYDRANT
	ISOLATION VALVE
	DEAD END
	REDUCER
	WATER SERVICE POINT

**AS CONSTRUCTED LEGEND**

	WATER PIPE
	TAPPING BAND
	VALVE
	FIRE HYDRANT
	END CAP

**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.

**NOTE:**

- WATER MAINS MUST CROSS OVER SERVICES WITH MINIMUM COVER PER SEQ CI. 7.4.2. AND CLEARANCES PER SEQ CODE TABLE 5.5.
- ALL VALVES TO BE FULLY RESTRAINED IN ACCORDANCE WITH THE SEQ CODE.
- MARKERS FOR PROPERTY SERVICES SHALL BE IN ACCORDANCE WITH SEQ-WAT-1106-1108. MARKERS FOR WATER MAIN CROSSINGS, HYDRANTS AND VALVES SHALL BE IN ACCORDANCE WITH SEQ-WAT-1300-1.
- ALL FITTINGS (HYDRANTS, VALVES, WATER SERVICE CONNECTIONS ETC) MUST BE INSTALLED ON STRAIGHT SECTIONS OF WATER MAIN.

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RPEQ (signature) RPEQ No. 18631 Date: 09/10/24

<b>RP DESCRIPTION</b>	
LOT 3 ON SP137533	
<b>DATUM LEVEL AND LOCATION</b>	
PM70079 RL 57.043 AHD LOCATED: 133-159 PARK RIDGE ROAD, PARK RIDGE	

REV	DATE	DESIGN	DRAWN	ISSUED FOR CONSTRUCTION
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2	09.10.24	CL	BP	AS CONSTRUCTED

DRAWN	STATUS
<b>AS CONSTRUCTED</b>	



SCALE	1:500	10	5	0	10	20	A1
	1:1000						A3

CLIENT

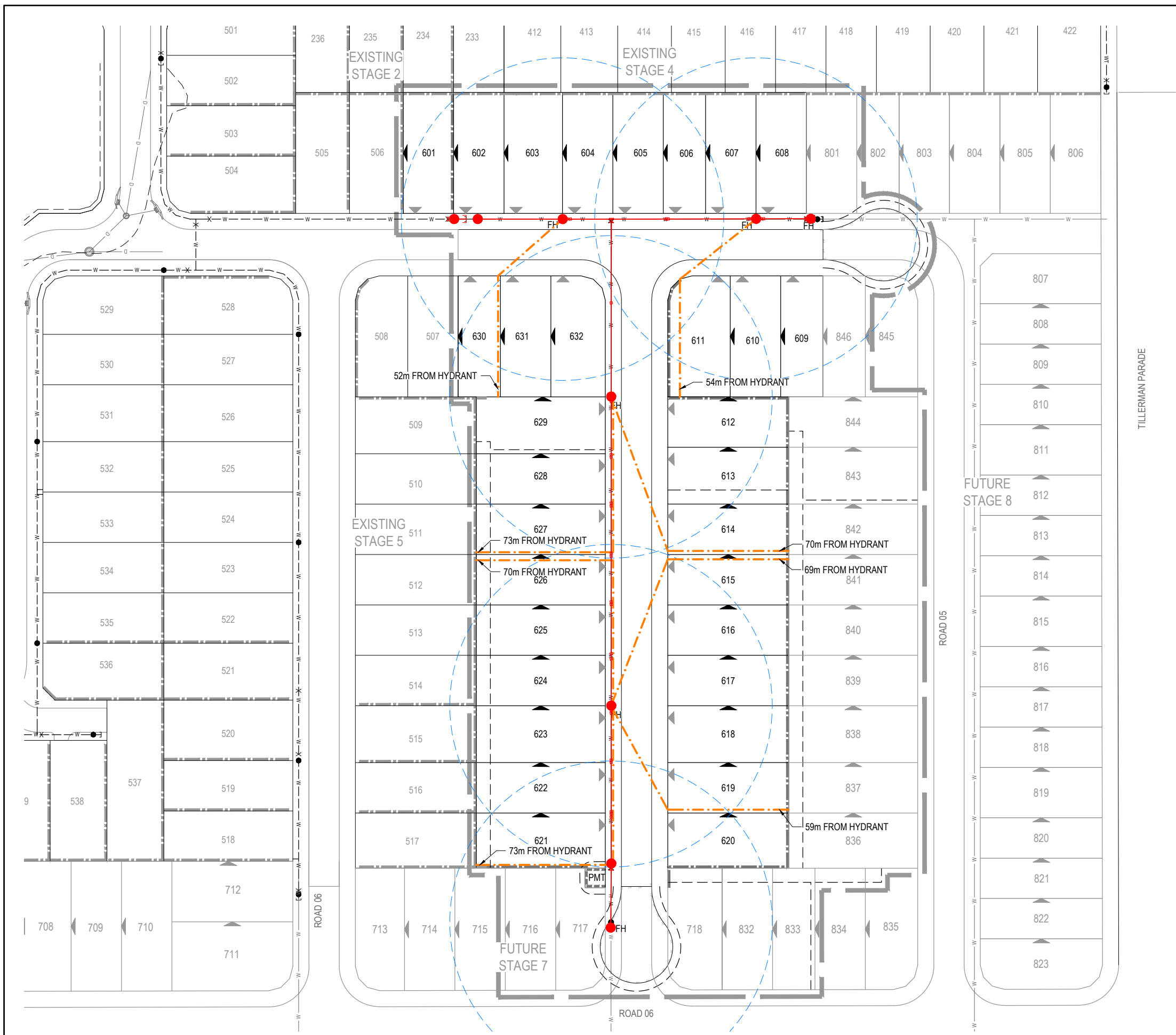
ASSOCIATED CONSULTANT  
SAUNDERS HAVILL GROUP  
PH: 1300 123 744

PROJECT NAME

STAGE 6  
133-159 PARK RIDGE ROAD, PARK RIDGE

<b>DRAWING TITLE</b>		
<b>WATER RETICULATION LAYOUT PLAN</b>		
PROJECT No.	DRAWING No.	REVISION
22-0447	307	2





**LEGEND**

- PROPOSED AREA OF WORKS
- PROPOSED WATER MAIN
- EXISTING WATER MAIN
- PROPOSED HYDRANT REACH (WORST CASE ALLOTMENT)
- FIRE HYDRANT SPACING (RADIUS 40m)

**NOTE:**  
 ALL FIRE HYDRANT LOCATIONS SHALL MEET CLASS 1 BUILDING COVERAGE REQUIREMENTS OF THE SEQ CODE. FIRE HYDRANT COVERAGE IS AS SHOWN AND DEMONSTRATES THE WORST POSSIBLE LOCATION OF ANY PROPOSED CLASS 1 BUILDING WITHIN 90m OF HYDRANT REACH.

**AS CONSTRUCTED LEGEND**

- WATER PIPE
- TAPPING BAND
- VALVE
- FIRE HYDRANT
- END CAP

**FIRE HYDRANT COVERAGE**  
NOT TO SCALE

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DRAWN	STATUS
	<b>AS CONSTRUCTED</b>

DESIGN	APPROVED	RPEQ	DATE
	DANIEL COLLINS	18631	9.10.24

FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD



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

CLIENT  
  
 ASSOCIATED CONSULTANT  
 SAUNDERS HAVILL GROUP  
 PH: 1300 123 744

PROJECT NAME  
  
 STAGE 6  
 133-159 PARK RIDGE ROAD, PARK RIDGE

DRAWING TITLE	PROJECT No.	DRAWING No.	REVISION
<b>FIRE HYDRANT REACH LAYOUT PLAN</b>	22-0447	308	2