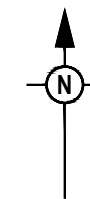




FOR 'HB PARK RIDGE'

22-0495-300	SEWERAGE AND WATER RETICULATION COVER PLAN
22-0495-301	SEWERAGE AND WATER RETICULATION GENERAL NOTES
22-0495-302	SEWERAGE AND WATER RETICULATION LIVE WORKS DETAILS
22-0495-303	SEWERAGE LAYOUT PLAN
22-0495-304	SEWERAGE LONGITUDINAL SECTIONS SHEET 1 OF 2
22-0495-305	SEWERAGE LONGITUDINAL SECTIONS SHEET 2 OF 2
22-0495-306	WATER RETICULATION LAYOUT PLAN
22-0495-306A	WATER RETICULATION DETAILS PLAN
22-0495-307	FIRE HYDRANT REACH LAYOUT PLAN



METERS	DIAMETER	NUMBER			
		DESIGN	CONST	DESIGN	CONST
	20Ø	PVC-M PN16	-	20	-
	25Ø	PVC-M PN16	-	-	-
	32Ø	PVC-M PN16	-	-	-

RPEQ (signature) RPEQ No. 18631 Date: 30/09/2025

SCALE 1:2000 (A1)
SCALE 1:4000 (A3)

REV	DATE	DESIGN	DRAWN	REVISION DETAILS		DRAWN	STATUS		SCALE	CLIENT	PROJECT NAME	DRAWING TITLE		
0	28.02.25	JW	AK	ISSUED FOR CONSTRUCTION			AS CONSTRUCTED		1:2500 50 0 50 100 A1 1:5000	 ASSOCIATED CONSULTANT SAUNDERS HAVILL GROUP PH: 1300 123 744	 STAGE 9 133-159 PARK RIDGE ROAD, PARK RIDGE	PROJECT No.	DRAWING No.	REVISION
1	30.09.25	JW	HC	AS CONSTRUCTED										
						DESIGN	APPROVED	DATE 28.02.25						
							FOR AND ON BEHALF OF COLLIERS INTERNATIONAL ENGINEERING & DESIGN PTY LTD							

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. EXISTING SERVICES RELEVANT TO THE PROJECT HAVE BEEN CONSIDERED THROUGHOUT DESIGN AND IS BASED ON SURVEY INFORMATION PROVIDED BY THE SURVEYOR AND THE CONTRACTOR. THE RPEQ WHO CERTIFIED THE DESIGN OR THE PRINCIPAL'S CONSTRUCTION RPEQ HAVE RELIED UPON THIS INFORMATION TO INFORM THE DESIGN. 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 DESIGN AND 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 CERTIFICATION OF THIS DESIGN IS BASED ON SURVEY AND POTHOLE INFORMATION PROVIDED BY THE SURVEYOR AND/OR CONTRACTOR AT THE TIME OF DESIGN. PRIOR TO COMMENCEMENT OF WORKS, THE CONTRACTOR SHALL VERIFY LEVELS OF EXISTING SERVICE CROSSINGS AND CONNECTION POINTS AND NOTIFY THE RPEQ WHO CERTIFIED THE DESIGN OR THE PRINCIPAL'S CONSTRUCTION RPEQ OF ANY DISCREPANCIES BETWEEN ACTUAL AND PROPOSED DESIGN LEVELS. THE CERTIFICATION OF THIS DESIGN IS BASED ON SURVEY AND POTHOLE INFORMATION PROVIDED BY THE SURVEYOR AND CONTRACTOR AT THE TIME OF DESIGN.
8. THE CONTRACTOR SHALL VERIFY LEVELS OF EXISTING SERVICE CROSSINGS AND CONNECTION POINTS PRIOR TO COMMENCEMENT OF WORKS AND NOTIFY THE RPEQ WHO CERTIFIED THE DESIGN OR THE PRINCIPAL'S CONSTRUCTION RPEQ OF ANY DISCREPANCIES BETWEEN ACTUAL AND PROPOSED DESIGN LEVELS. THE CERTIFICATION OF THIS DESIGN IS BASED ON SURVEY AND POTHOLE INFORMATION PROVIDED BY THE SURVEYOR AND CONTRACTOR AT THE TIME OF DESIGN.
7. 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.
8. HOLD POINT: ONCE THE BASE OF MANHOLES HAVE BEEN POURED, CONSTRUCTION SHALL ONLY RE-COMMENCE ONCE THE SUPERINTENDENT AND/OR ENGINEER HAVE INSPECTED THE WORKS.
9. 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 DURING THE PRE-START, 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.

ENVIRONMENTAL CONDITIONS

VEGETATION PROTECTION

- A. TREES LOCATED ALONG THE FOOTPATH SHALL BE, TRANSPLANTED PRIOR TO CONSTRUCTION, OR REPLACED IF DESTROYED.
- B. WHEN WORKING WITHIN 4m OF TREES, RUBBER OR HARDWOOD GIRDLES SHALL BE CONSTRUCTED WITH 1.8m BATTENS CLOSELY SPACED AND ARRANGED VERTICALLY FROM GROUND LEVEL. GIRDLES SHALL BE STRAPPED TO TREES PRIOR TO CONSTRUCTION AND REMAIN UNTIL COMPLETION.
- C. TREE ROOTS SHALL BE TUNNELED UNDER, RATHER THAN SEVERED. IF ROOTS ARE SEVERED THE DAMAGED AREA SHALL BE TREATED WITH A SUITABLE FUNGICIDE. CONTACT RELEVANT COUNCIL ARBORIST FOR FURTHER ADVICE.
- D. ANY TREE LOPPING REQUIRED SHOULD BE UNDERTAKEN BY AN APPROVED ARBORIST.

SOIL

- A. TOPSOIL AND SUBSOIL SHALL BE STOCKPILED SEPARATELY.
- B. CARE SHALL BE TAKEN TO PREVENT SEDIMENT FROM ENTERING THE STORMWATER SYSTEM. THIS MAY INVOLVE
PLACING APPROPRIATE SEDIMENT CONTROLS AROUND STOCKPILES.
- C. ACID SULPHATE SOILS EXIST IN THE WORKS AREA. THE OUTPUTS FROM THE RISK ASSESSMENT BASED ON THE QUEENSLAND ACID SULPHATE SOIL TECHNICAL MANUAL REQUIRES THAT ACID SULPHATE SOILS BE MANAGED AS FOLLOWS:

CREEK CROSSINGS

- A. SILTATION CONTROL MEASURES SHALL BE PLACED DOWNSTREAM OF ANY EXCAVATION WORK.
B. APPROPRIATE SEDIMENT CONTROLS SHALL BE USED TO PREVENT SEDIMENT FROM ENTERING THE CREEK.
C. NO SOIL SHALL BE STOCKPILED WITHIN 5m OF THE CREEK.

REHABILITATION

- A. PREDISTURBANCE SOIL PROFILES AND COMPACTION LEVELS SHALL BE REINSTATED.
- B. PREDISTURBANCE VEGETATION PATTERNS SHALL BE RESTORED.

SEWERAGE NOTES

1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT WSAA GRAVITY SEWERAGE CODE OF AUSTRALIA SPECIFICATIONS AND STANDARD - SOUTH EAST QUEENSLAND SERVICE PROVIDERS EDITION.
2. UNLESS SPECIFIED OTHERWISE ALL MATERIALS AND WORK SHALL COMPLY WITH THE RELEVANT AUSTRALIAN STANDARDS.
3. THE CONSTRUCTION OF THE SEWERAGE WORK SHOWN ON THIS DRAWING SHALL BE SUPERVISED BY AN ENGINEER WHO HAS RPEQ REGISTRATION. SEWERAGE WORKS NOT COMPLYING WITH THIS REQUIREMENT WILL NOT BE PERMITTED TO CONNECT INTO THE SEQ SERVICE PROVIDER SEWERAGE SYSTEM.
4. ALL WORKS ON EXISTING SEWER MAINS ARE TO BE CARRIED OUT BY LOGAN CITY COUNCIL AT THE DEVELOPER'S EXPENSE OR AS DIRECTED BY LOGAN CITY COUNCIL.
5. ALL PIPES AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE "ACCEPTED PRODUCTS AND MATERIALS" LIST, UNLESS APPROVED BY THE WATER AUTHORITY.
6. BENCH MARK AND LEVELS TO AHD.
7. WHERE PIPES ARE LAID IN FILL, THE FILLING SHALL BE CARRIED OUT IN LAYERS NOT EXCEEDING 300mm (LOOSE) IN DEPTH AND SHALL BE COMPACTED UNTIL THE COMPACTION IS NOT LESS THAN 95% OF THE MATERIALS MAXIMUM COMPACTION WHEN TESTED IN ACCORDANCE WITH A.S.1289 (MODIFIED COMPACTION). TESTING SHALL BE CARRIED OUT AFTER EACH ALTERNATE LAYER. IN ALL SUCH CASES APPROVAL OF CONSTRUCTED SEWERS WILL NOT BE ISSUED BY THE SEQ SERVICE PROVIDER UNLESS CERTIFICATES ARE PRODUCED CERTIFYING THAT THE REQUIRED COMPACTION HAS BEEN ACHIEVED.
8. WHERE SEWERS HAVE A GRADE OF 1 IN 20 OR STEEPER, BULKHEADS, TRENCH STOPS AND TRENCH DRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CLAUSE 9.10 OF THE SEQ SEWER CODE AND DRG'S SEQ-SEW-1206-1 AND 1207-1.
9. SEWERS SHALL BE DISUSED/ABANDONED IN ACCORDANCE WITH PROCEDURE SET OUT IN THE GRAVITY SEWER CODE.
10. EACH ALLOTMENT SHALL BE SERVED BY A 100Ø PVC PROPERTY CONNECTION. FOR ALLOTMENTS OTHER THAN SINGLE RESIDENTIAL, A 150Ø PVC PE PROPERTY CONNECTION SHALL BE PROVIDED. PROPERTY CONNECTIONS SHALL BE LOCATED WITHIN THE PROPERTY AS SHOWN IN THE DRAWINGS AND SHALL EXTEND INTO THE PROPERTY A MINIMUM OF 300mm (500mm FOR LCC) AND A MAXIMUM OF 750mm.
11. EXISTING ALLOTMENTS REQUIRING A PROPERTY CONNECTIONS FROM EXISTING SEWERS SHALL BE PROVIDED BY THE SEQ SERVICE PROVIDER AT THE DEVELOPERS COST.

ALL WATER AND SEWERAGE CONSTRUCTION SHALL COMPLY WITH ALL QUEENSLAND LEGISLATION

ALL ENVIRONMENTAL PROTECTION MEASURES SHALL
BE IMPLEMENTED PRIOR TO ANY CONSTRUCTION
WORK COMMENCING, INCLUDING CLEARING

PROPERTY CONNECTIONS HAVE BEEN DESIGNED TO CONTROL THE REQUIRED SERVICE AREA OF EACH LOT AT A GRADE OF 1:60 AND A MAXIMUM DEPTH OF PROPERTY CONNECTION AT 1.5m UNLESS OTHERWISE STATED. FOR JUNCTION DETAILS REFER SEQ-SEW-1104-1 AND SEQ-SEW-1105-1.

WATER RETICULATION NOTES

1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT WSAA WATER SUPPLY CODE OF AUSTRALIA SPECIFICATIONS AND STANDARD - SOUTH EAST QUEENSLAND SERVICE PROVIDERS EDITION.
2. UNLESS SPECIFIED OTHERWISE ALL MATERIALS AND WORK SHALL COMPLY WITH THE RELEVANT AUSTRALIAN STANDARDS.
3. THE CONSTRUCTION OF THE WATER RETICULATION WORK SHOWN ON THIS DRAWING MUST BE SUPERVISED BY AN ENGINEER WHO HAS RPEQ REGISTRATION. WORKS NOT COMPLYING WITH THIS REQUIREMENT WILL NOT BE PERMITTED TO CONNECT TO THE RETICULATION SYSTEM.
4. ALL MATERIALS USED IN THE WORKS SHALL COMPLY WITH THE SEQ-SP'S ACCEPTED PRODUCTS AND MATERIALS LIST OR BE APPROPRIATELY SHOWN, LISTED AND DEFINED IN THE ENGINEERING SUBMISSION SO THAT THE ALTERNATIVE PRODUCT OR MATERIAL CAN BE ASSESSED AND IF APPROPRIATE, APPROVED BY THE SEQ-SP.
5. ADOPT LIP OF KERB OR SHOULDER OF ROAD AS PERMANENT LEVEL.
6. COVER ON MAINS FROM PERMANENT LEVEL TO BE AS SHOWN IN SEQ-WAT-1200-2.
7. CONDUITS TO BE INSTALLED IN ACCORDANCE WITH THE STANDARD DRAWINGS.
8. A WATER METER SUPPLIED AT THE DEVELOPER'S COST, IS TO BE INSTALLED AT THE SERVICE POINT OF EACH LOT IN ACCORDANCE WITH THE STANDARD DRAWING FOR THE SEQ-SP.
9. HYDRANTS TO BE INSTALLED AT THE END OF ALL NEW MAINS WHERE REQUIRED FOR TESTING AND COMMISSIONING PURPOSES.

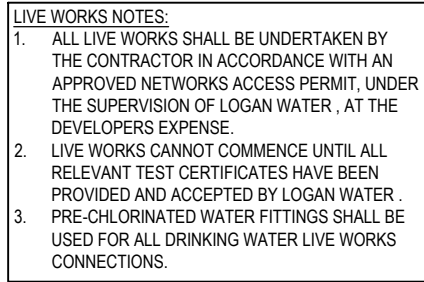
ENGINEER'S CERTIFICATION

I, Daniel Collins, hereby certify that:
As Constructed information shown on this plan is a true and correct record of the sizes,
types, materials, classes etc., and it corresponds with the relevant approved Engineering
Drawings.



RPEQ (signature) RPEQ No. 18631 Date: 30/09/2025

[illegible]

[illegible]

LIVE WATER CONNECTION 1 DETAIL
SCALE 1:20 (A1)
1:40 (A3)

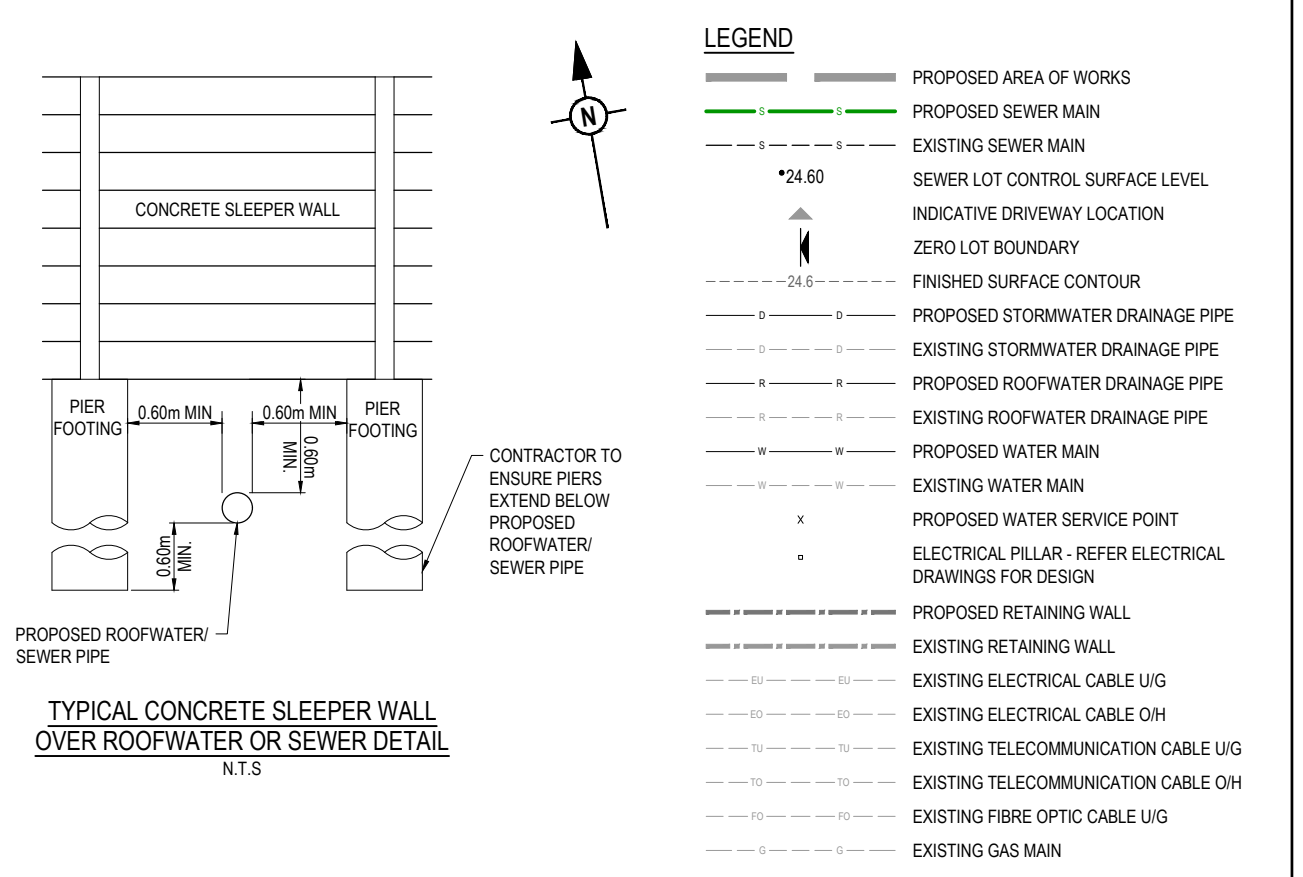
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CONNECTION 1	
STREET	TILLERMAN PARADE
LOCATION	NEXT TO LOT 1004 AND 1005
LENGTH	3.00m
TYPE OF MAIN	DN150 PVC-M PN16
DATE COMMENCED	DATE COMPLETED
SIGNATURE	

REV	DATE	DESIGN	DRAWN	REVISION DETAILS		DRAWN	STATUS		SCALE	CLIENT	PROJECT NAME	DRAWING TITLE			
0	28.02.25	JW	AK	ISSUED FOR CONSTRUCTION			AS CONSTRUCTED					TILLERMAN PARK RIDGE	SEWERAGE AND WATER RETICULATION LIVE WORKS DETAILS		
1	30.09.25	JW	HC	AS CONSTRUCTED											
						DESIGN	APPROVED	DATE 28.02.25				PROJECT No.	DRAWING No.	REVISION	
FOR AND ON BEHALF OF COLLIERS INTERNATIONAL ENGINEERING & DESIGN PTY LTD															



150mm MIN - NON TRAFFICABLE
300mm MIN - TRAFFICABLE

100-150mm

200mm

MARKING TAPE

BIDIM A64 GEOTEXTILE

EMBEDMENT MATERIAL SHALL BE OF NOMINAL SIZED AGGREGATE OR 7/5mm AGGREGATE AS SPECIFIED. REFER SEQ CODE ACCEPTED PRODUCTS AND MATERIALS LIST. TRENCH FILL SHALL COMPLY WITH SEQ-WAT-1200-2

TRENCH DETAIL TYPE '3'

SUPPORT

SEQ-SEW-1201-1

GEOTECHNICAL INVESTIGATION TO CONFIRM MIN. BEARING CAPACITY OF 100kPa PRIOR TO CONSTRUCTION.

ENGINEER'S CERTIFICATION

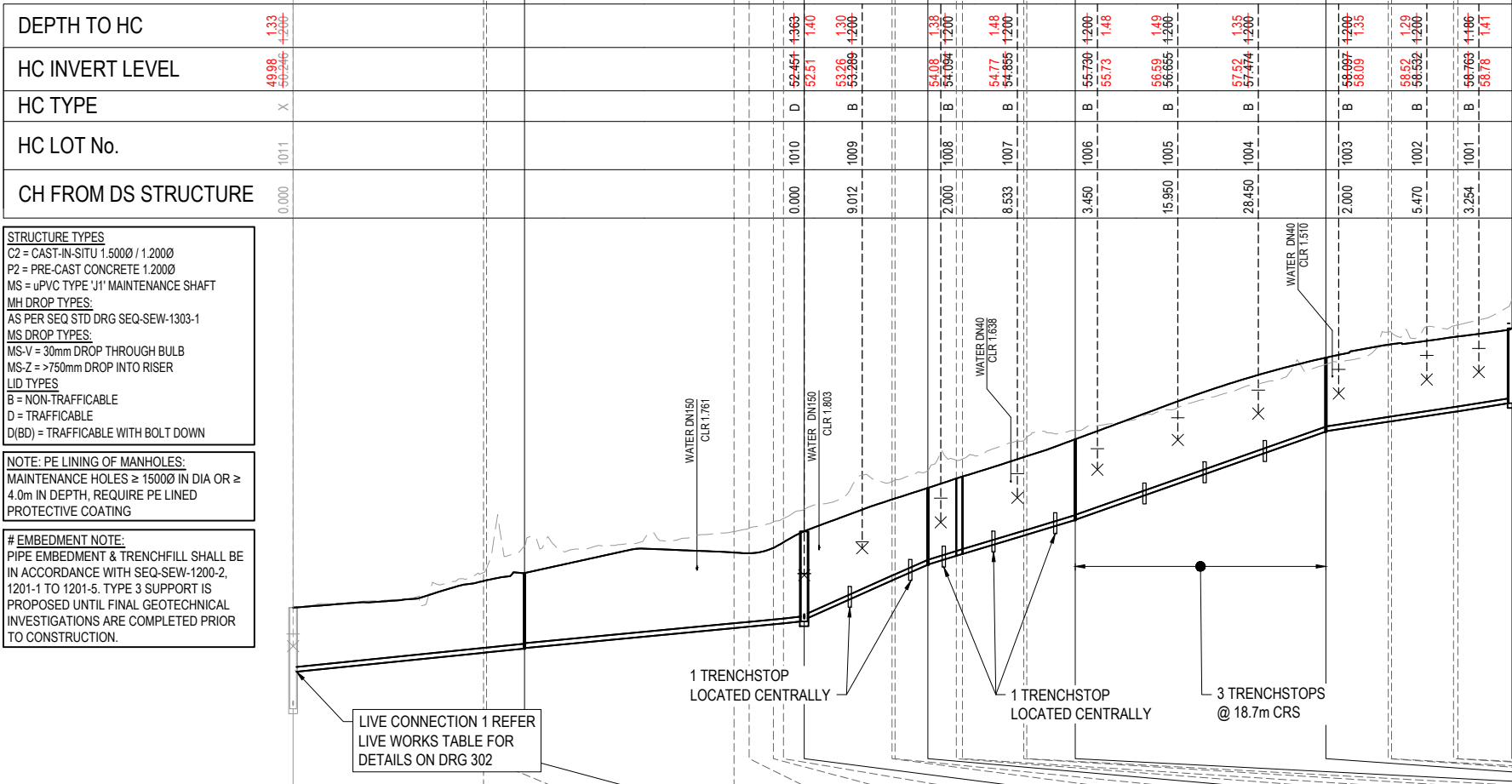
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 RPEQ (signature) RPEQ No. 18631 Date: 30/09/2025

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

REV	DATE	DESIGN	DRAWN	REVISION DETAILS		DRAWN	STATUS		SCALE		CLIENT	PROJECT NAME		DRAWING TITLE								
0	28.02.25	JW	AK	ISSUED FOR CONSTRUCTION			AS CONSTRUCTED						SEWERAGE LAYOUT PLAN									
1	28.05.25	CL	CL	LINE 18 AMENDED												APPROVED		PROJECT No.			DRAWING No.	
2	30.09.25	CL	HC	AS CONSTRUCTED												DATE 28.02.25		REVISION				
																FOR AND ON BEHALF OF COLLIERS INTERNATIONAL ENGINEERING & DESIGN PTY LTD						

STRUCTURE NAME	EX1/13	HB1/13	2/13	HB2/13	HB3/13	3/13	HB4/13	4/13	HB5/13	HB6/13	5/13	6/13	HB7/13	HB8/13	7/13	3/13	1/14	HB1/14
STRUCTURE TYPE & DROP	X	HTP	R-3.00 HTP	P2	HTP	R3.00 HTP	HTP	R3.00 HTP	P2	HTP	R-3.00 HTP	HTP	R-3.00 HTP	P2	V	P2	P2	HTP
STRUCTURE LID TYPE	B			B					B							B	B	
JUNCT. LINE No.	18		-81°					15°									-75°	
JUNCT. DROP TYPES	V							V								V	X	



STRUCTURE TYPES
C2 = CAST-IN-SITU 1.5000 / 1.2000
P2 = PRE-CAST CONCRETE 1.2000
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 ≥ 15000 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.

ENGINEER'S CERTIFICATION

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RPEQ (signature) RPEQ No. 18631 Date: 30/09/2025

DATUM RL(m)	45.0																	
LAND USE		ALLOTMENT						ROAD RESERVE										
PIPE DIA & TYPE								uPVC SN8 DN150										
PIPE GRADE (1 in x)		1 IN 50.000	1 IN 50.003	1 IN 50.000	1 IN 52.632	1 IN 52.632	1 IN 52.632	1 IN 52.632	1 IN 52.631	1 IN 11.628	1 IN 11.628	1 IN 11.628	1 IN 16.667	1 IN 16.667	1 IN 16.667	1 IN 16.667	1 IN 14.286	1 IN 33.333
EMBEDMENT								# TYPE 3										
JUNCTION INVERT LEVEL									51.095									
DEPTH TO INVERT	3.220	2.229	2.229	2.243	2.243	2.230	2.246	2.246	2.246	2.270	2.270	2.270	2.270	2.270	2.270	2.270	2.270	2.270
SEWER INVERT LEVEL	48.21	50.042	50.042	50.051	50.051	50.16	50.169	50.169	50.21	51.01	51.01	51.01	51.01	51.01	51.01	51.01	51.01	51.01
DESIGN SURFACE LEVEL	51.43	52.274	52.274	52.284	52.284	52.517	52.517	52.517	52.517	53.78	53.78	53.78	53.78	53.78	53.78	53.78	53.78	53.78
EXISTING SURFACE LEVEL	51.455	52.533	52.533	52.533	52.533	53.327	53.327	53.327	53.327	54.498	54.498	54.498	54.498	54.498	54.498	54.498	54.498	54.498
SETOUT	E505354.633	N935931.920	E505349.741	N935902.730	E505349.700	N935902.266	E505349.638	N935896.377	E505349.579	N935886.711	E505386.022	N935885.257	E505386.730	N935882.050	E505384.474	N935868.893	E505384.433	N935868.125
RUNNING CHAINAGE	0.000	29.597	36.03	0.466	30.063	5.089	35.952	32.557	68.509	2.356	70.865	43.26	76.201	3.224	79.422	43.645	93.067	19.22

LINE NUMBER	LINE 13																	
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STRUCTURE NAME	3/13	1/14	HB1/14
STRUCTURE TYPE & DROP	P2	P2	HTP
STRUCTURE LID TYPE	B	B	
JUNCT. LINE No.	13	15	
JUNCT. DROP TYPES	V	X	

DATUM RL(m)	43.0		
LAND USE	ROAD		
PIPE DIA & TYPE	uPVC SN8 DN150		
PIPE GRADE (1 in x)	1 IN 100.000	1 IN 123.10	
EMBEDMENT	# TYPE 3		
JUNCTION INVERT LEVEL	51.095	51.954	
DEPTH TO INVERT	2.770	2.550	2.446
SEWER INVERT LEVEL	51.01	51.21	51.266
DESIGN SURFACE LEVEL	53.78	53.76	53.402
EXISTING SURFACE LEVEL	54.498	54.816	54.769
SETOUT	E505386.730	E505397.480	E505388.817
RUNNING CHAINAGE	0.000	10.95	12.31

LINE NUMBER	LINE 14		
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REV	DATE	DESIGN	DRAWN	REVISION DETAILS
0	28.02.25	JW	AK	ISSUED FOR CONSTRUCTION
1	12.03.25	JW	AK	SEWER LINE 13 AND 14 UPDATED
2	30.09.25	JW	HC	AS CONSTRUCTED

DRAWN	STATUS
AS CONSTRUCTED	

DESIGN	APPROVED	DATE
		28.02.25

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

SCALE

1:1000 10 0 10 20 30 40 50 A1

1:2000 HORIZONTAL A3

1:100 2 1 0 2 4 A1

1:200 VERTICAL A3

CLIENT

ASSOCIATED CONSULTANT
SAUNDERS HAVILL GROUP
PH: 1300 123 744

PROJECT NAME

STAGE 9
133-159 PARK RIDGE ROAD, PARK RIDGE

DRAWING TITLE

SEWERAGE LONGITUDINAL SECTIONS SHEET 1 OF 2

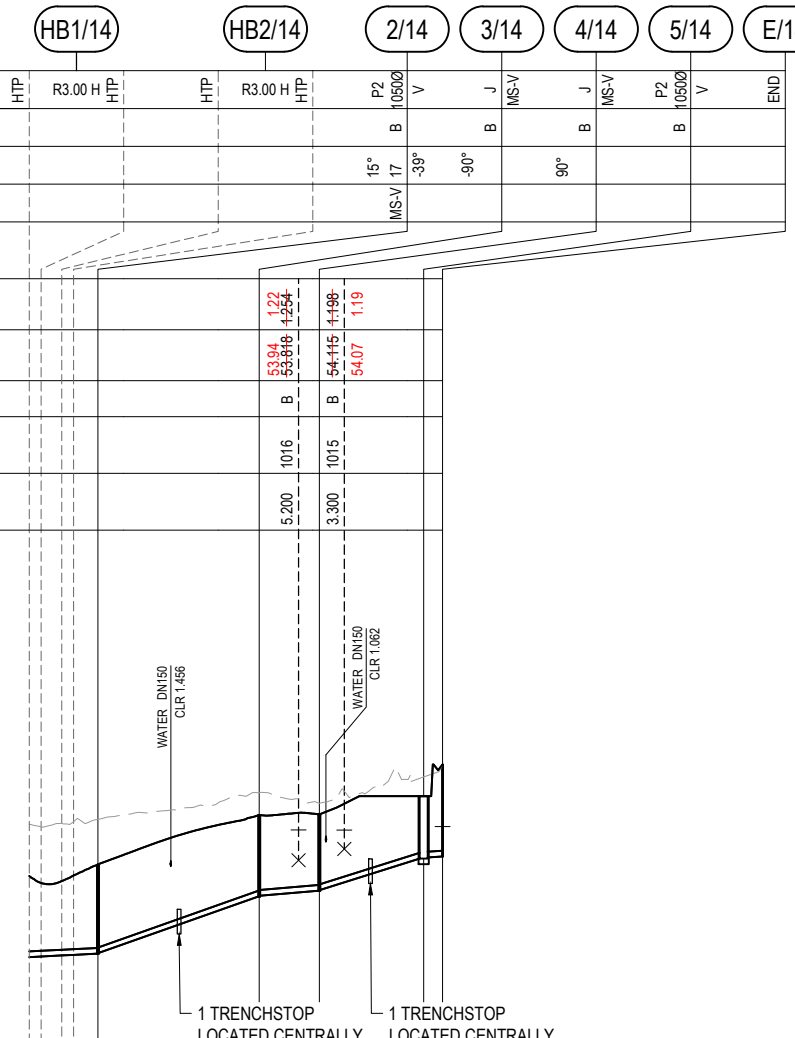
PROJECT No.	DRAWING No.	REVISION
22-0495	304	2

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

STRUCTURE TYPES C2 = CAST-IN-SITU 1.5000' / 1.2000' P2 = PRE-CAST CONCRETE 1.2000' 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 $\geq 1500\phi$ IN DIA OR $\geq$
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.

[illegible]

LINE NUMBER LINE 14

WATER DNI 50	7.294	1017	B	53.000	1.49
CLR 0.948				53.142	1.200
				53.290	1.48
	9.302	1018	B	53.000	1.49

[illegible]

LINE 15

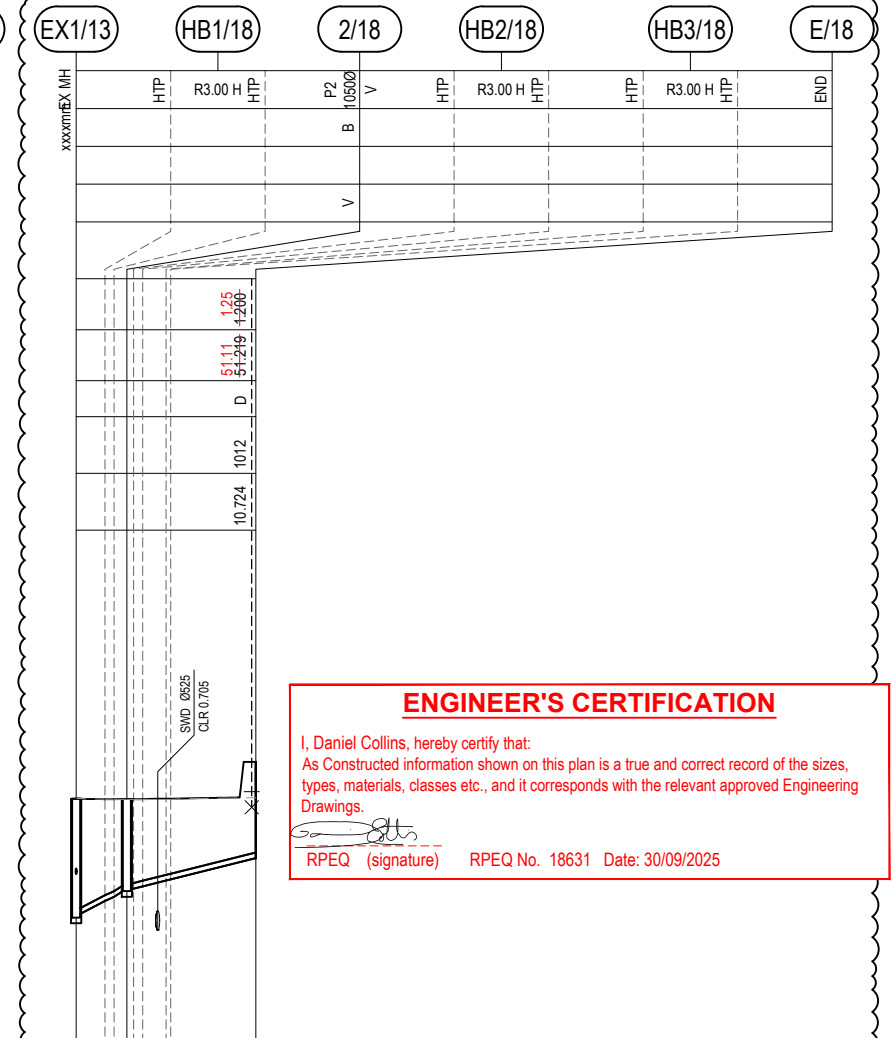
	S/D 0.275 C/R 0.0607	11.960	1020	B	55.68 139 55.686 1.64
		14.033	1019	B	55.466 1469 55.466 1.68

E505390.873	54.13 54.16	2.510 2.519	54.282						
0.000	56.674 56.64	2.412 2.350	56.938	1 in 24.18 1 in 22.842	ROAD	46.0			
N35841.415	56.64	54.29	56.938	# TYPE 3	UPVC SN8 DN150				
E505004.493	54.78 54.76	2.020 2.039							
N35844.798	56.884 56.86								
14.034	11.85 14.034								

LINE 16

E050406.689	54.898	51.34 51.44	2.340 2.355	51.367	43.0
N935886.813	53.762 53.68	51.367 51.40	2.335 2.280	ROAD	
0.000	15.56 17.639			uPVC SN8 DN150 1 in 24.70 1 IN 26.00	
E050418.947	52.624 52.624	52.624 52.624	2.290 2.240	# TYPE 3	

LINE 17



ENGINEER'S CERTIFICATION

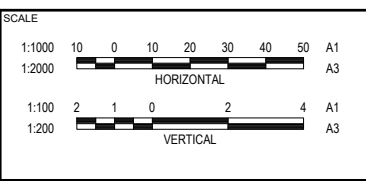
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RPEQ (signature) RPEQ No. 18631 Date: 30/09/2025

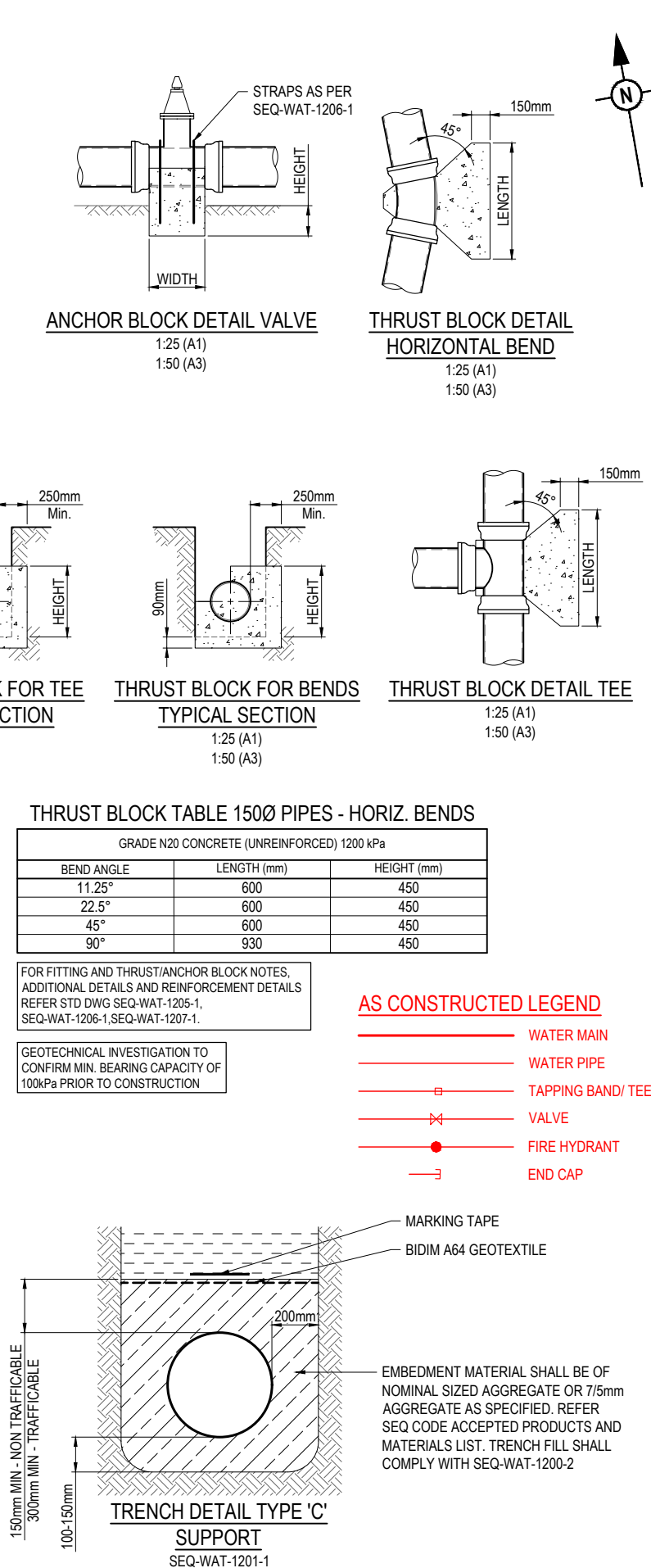
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LINE 18

REV	DATE	DESIGN	DRAWN	REVISION DETAILS	DRAWN	STATUS
0	28.02.25	JW	AK	ISSUED FOR CONSTRUCTION		AS CONSTRUCTED
1	12.03.25	JW	AK	SEWER LINE 14 SETOUT UPDATED		
2	28.05.25	CL	CL	LINE 18 AMENDED		
3	30.09.25	CL	HC	AS CONSTRUCTED		
					DESIGN	APPROVED
						DATE 28.02.25
						FOR AND ON BEHALF OF COLLIERIES INTERNATIONAL ENGINEERING & DESIGN PTY LTD



CLIENT		PROJECT NAME		DRAWING TITLE		
		 TILLERMAN PARK RIDGE		SEWERAGE LONGITUDINAL SECTIONS SHEET 2 OF 2		
ASSOCIATED CONSULTANT SAUNDERS HAVILL GROUP PH: 1300 123 744		STAGE 9 133-159 PARK RIDGE ROAD, PARK RIDGE		PROJECT No. 22-0495	DRAWING No. 305	REVISION 3

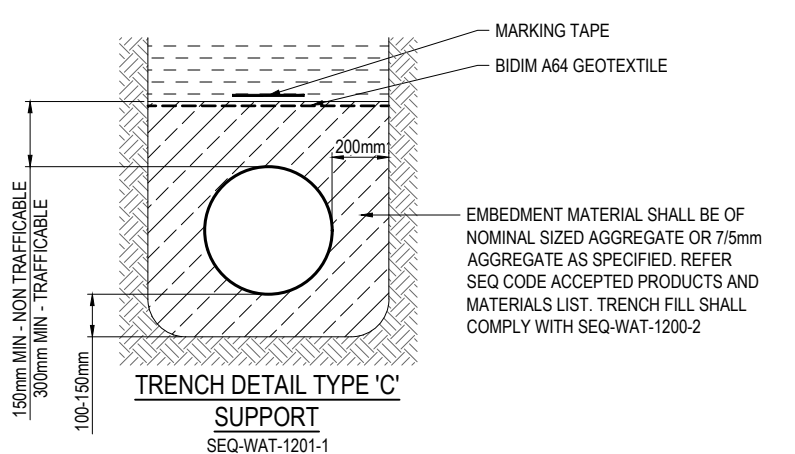


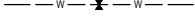
FOR FITTING AND THRUST/ANCHOR BLOCK NOTES,
ADDITIONAL DETAILS AND REINFORCEMENT DETAILS
REFER STD DWG SEQ-WAT-1205-1,
SEQ-WAT-1206-1, SEQ-WAT-1207-1.

GEOTECHNICAL INVESTIGATION TO
CONFIRM MIN. BEARING CAPACITY OF
100kPa PRIOR TO CONSTRUCTION

AS CONSTRUCTED LEGEND

	WATER MAIN
	WATER PIPE
	TAPPING BAND/ TEE
	VALVE
	FIRE HYDRANT
	END CAP



- ## WATER FITTINGS LEGEND
- PROPOSED:
-  FIRE HYDRANT
 -  ISOLATION VALVE
 -  DEAD END
 -  WATER SERVICE POINT
- EXISTING:
-  FIRE HYDRANT
 -  ISOLATION VALVE
 -  DEAD END

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.

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

ENGINEER'S CERTIFICATION

I, Daniel Collins, hereby certify that:
 As Constructed information shown on this plan is a true and correct record of the sizes, types, materials, classes etc., and it corresponds with the relevant approved Engineering Drawings.


 RPEQ (signature) RPEQ No. 18631 Date: 30/09/2025

[illegible]

