

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.
12. PRIOR TO COMMENCING WORK, THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING AFFECTED PROPERTY OWNERS.

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 INCLUDING AFFECTED AREAS OUTSIDE STAGE BOUNDARY 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.
8. ALL DISTURBED AREAS TO BE TOPSOILED AND TURFED AND PROTECTED FROM SCOUR BY CONTRACTOR.

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, KERB SUBSOIL DRAINS 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.
13. ALL CUSTOM MANHOLES TO BE DELIVERED ON 'DESIGN, BUILD, AND CERTIFIED' BASIS BY CONTRACTOR

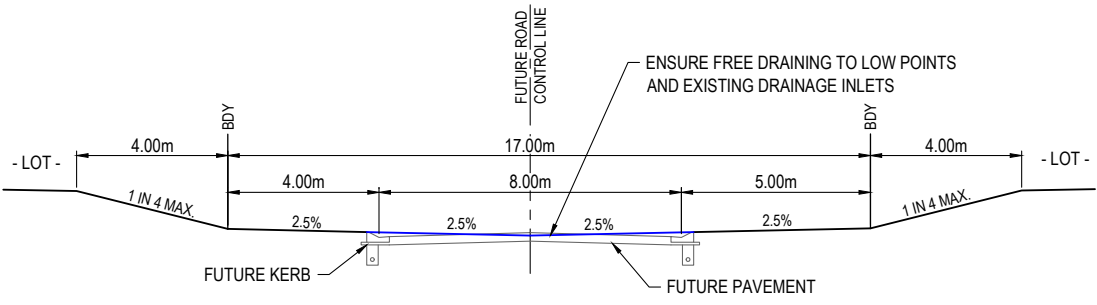
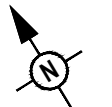
ROOFWATER NOTES

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 150Ø 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 ADAPTOR 500mm FROM THE DOWNSTREAM BOUNDARY (UNLESS SHOWN ON A DIFFERENT ALIGNMENT). 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 150Ø ROOFWATER PIPE CONNECTED TO PROPOSED STORMWATER GULLY PIT OR MANHOLE AT MINIMUM 1.0% GRADE WITH 1.0m COVER.

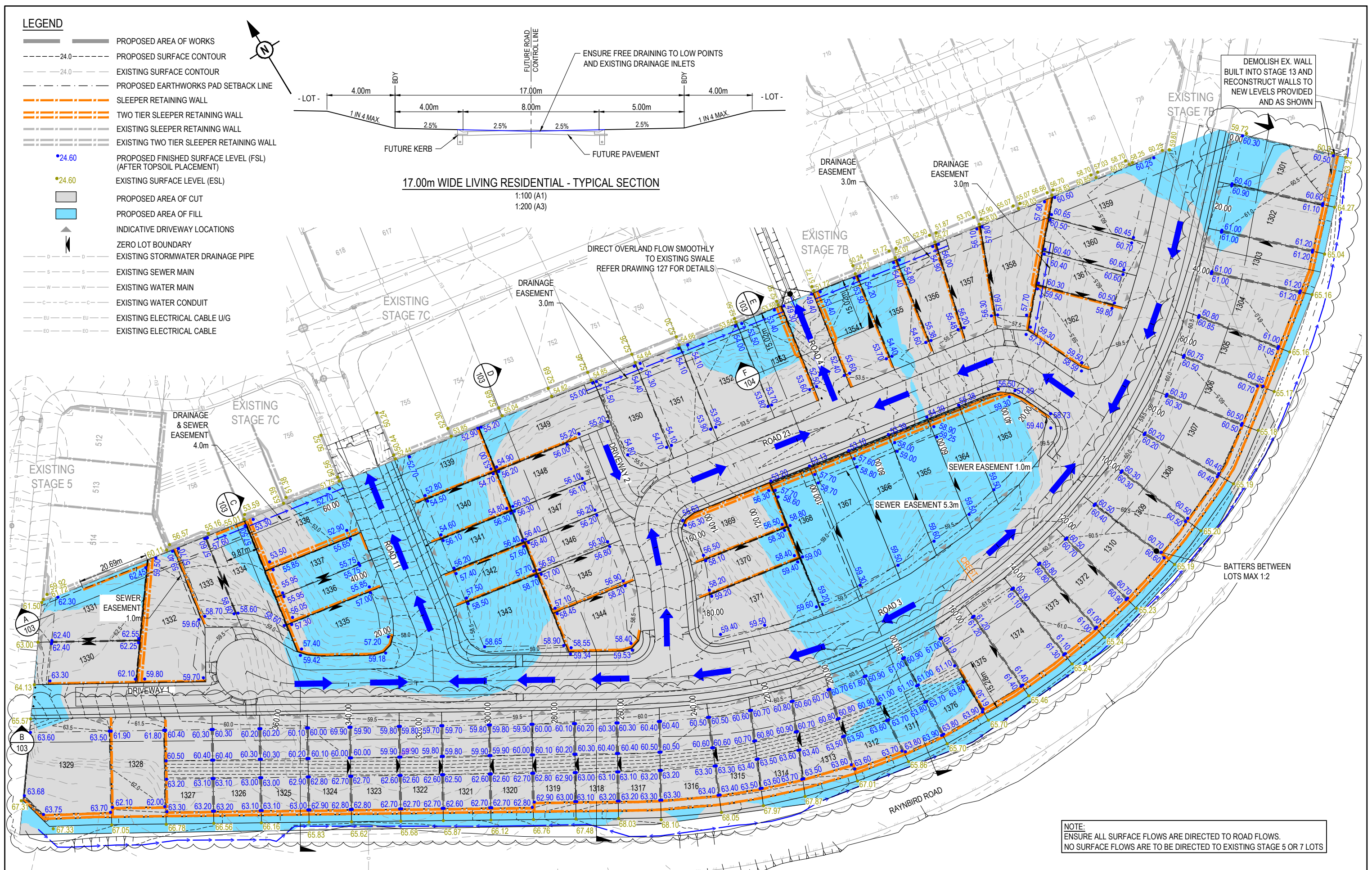
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1	08.11.2024	SM	SM	ISSUED FOR APPROVAL				SATTERLEY PROPERTY GROUP PTY LTD	RIDGEVIEW STAGE 13	GENERAL NOTES
2	23.01.2025	NP	NP	COUNCIL RFS ADDRESSED	NP	ISSUED FOR CONSTRUCTION				
3	30.01.2025	NP	NP	ISSUED FOR CONSTRUCTION						
					DESIGN	APPROVED JAMES VONHOFF <i>Vonhoff</i>	RPEQ 32647	DATE 09.07.25	ASSOCIATED CONSULTANT COLLIERS PTY LTD (07) 3532 1300	PROJECT No. 21-0249
									RAYNBIRD ROAD NARANGBA	DRAWING No. 101
						FOR AND ON BEHALF OF COLLIERS INTERNATIONAL ENGINEERING & DESIGN PTY LTD				REVISION 3

LEGEND

- PROPOSED AREA OF WORKS
- PROPOSED SURFACE CONTOUR
- EXISTING SURFACE CONTOUR
- PROPOSED EARTHWORKS PAD SETBACK LINE
- SLEEPER RETAINING WALL
- TWO TIER SLEEPER RETAINING WALL
- EXISTING SLEEPER RETAINING WALL
- EXISTING TWO TIER SLEEPER RETAINING WALL
- 24.60 PROPOSED FINISHED SURFACE LEVEL (FSL) (AFTER TOPSOIL PLACEMENT)
- 24.60 EXISTING SURFACE LEVEL (ESL)
- 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 WATER CONDUIT
- EXISTING ELECTRICAL CABLE U/G
- EXISTING ELECTRICAL CABLE



17.00m WIDE LIVING RESIDENTIAL - TYPICAL SECTION



REV	DATE	DESIGN	DRAWN	ISSUED FOR APPROVAL	REVISION DETAILS
1	08.11.2024	SM	SM		ISSUED FOR APPROVAL
2	23.01.2025	NP	NP		COUNCIL RPT'S ADDRESSED
3	30.01.2025	NP	NP		ISSUED FOR CONSTRUCTION
4	29.07.25	AF	AF		AMENDED RETAINING WALLS & PADS

DRAWN	STATUS
A.F	ISSUED FOR CONSTRUCTION

DESIGN	APPROVED	DATE
A.F	JAMES VONHOFF <i>Vonhoff</i>	RPEQ 32647 09.07.25



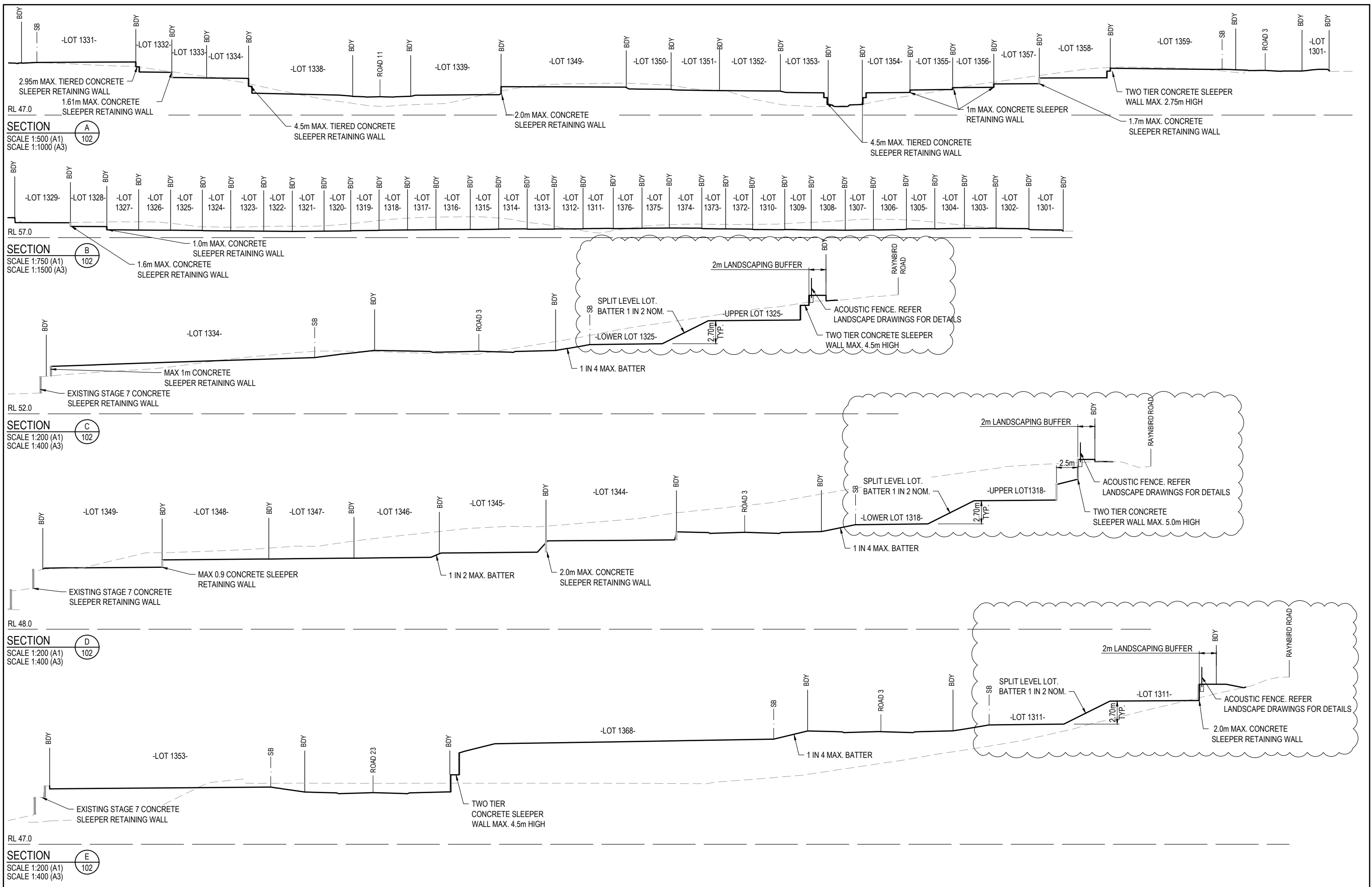
CLIENT
SATTERLEY PROPERTY GROUP PTY LTD

ASSOCIATED CONSULTANT
COLLIERS PTY LTD
(07) 3532 1300

PROJECT NAME
RIDGEVIEW STAGE 13

RAYNBIRD ROAD
NARANGBA

DRAWING TITLE		
BULK EARTHWORKS LAYOUT PLAN		
PROJECT No.	DRAWING No.	REVISION
21-0249	102	4

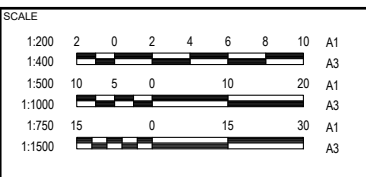


REV	DATE	DESIGN	DRAWN	REVISION DETAILS
1	08.11.2024	SM	SM	ISSUED FOR APPROVAL
2	23.01.2025	NP	NP	COUNCIL RFTS ADDRESSED
3	30.01.2025	NP	NP	ISSUED FOR CONSTRUCTION
4	29.07.25	AF	AF	AMENDED RETAINING WALLS & PADS

DRAWN	STATUS
AF	ISSUED FOR CONSTRUCTION

DESIGN	APPROVED	RPEQ	DATE
AF	JAMES VONHOFF <i>Vonhoff</i>	RPEQ 32647	09.07.25

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



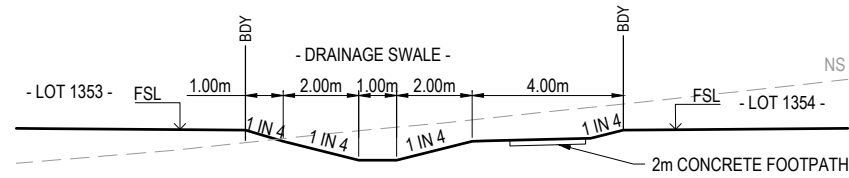
CLIENT
SATTERLEY PROPERTY GROUP PTY LTD

ASSOCIATED CONSULTANT
COLLIERS PTY LTD
(07) 3532 1300

PROJECT NAME
RIDGEVIEW STAGE 13

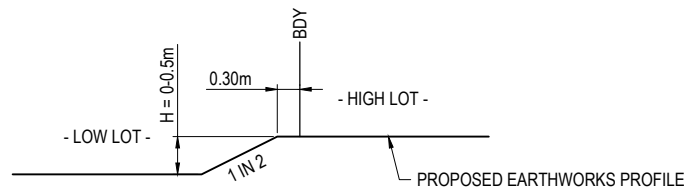
RAYNBIRD ROAD
NARANGBA

DRAWING TITLE		
BULK EARTHWORKS TYPICAL SECTIONS SHEET 1 OF 3		
PROJECT No.	DRAWING No.	REVISION
21-0249	103	4



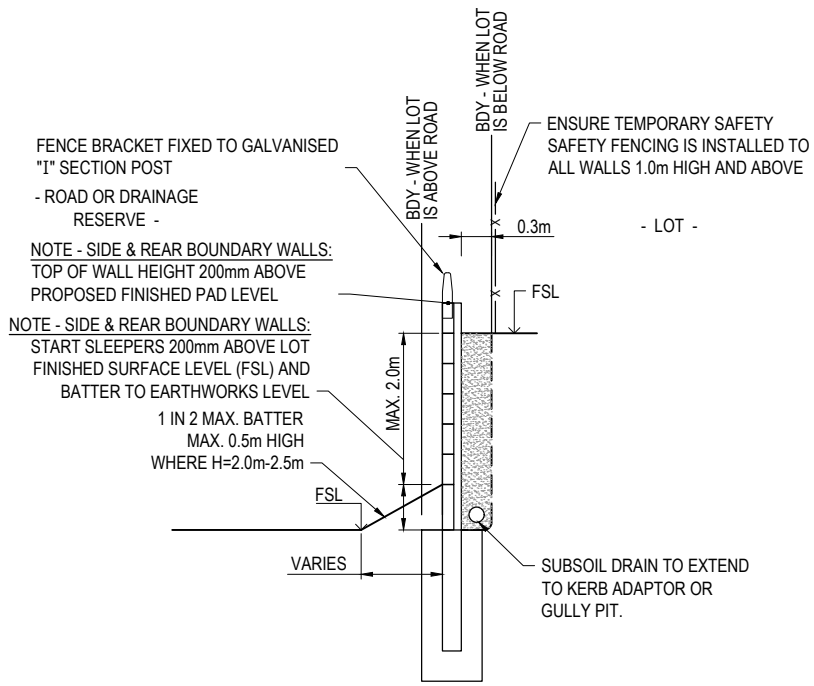
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SECTION
SCALE 1:100 (A1)
SCALE 1:200 (A3)



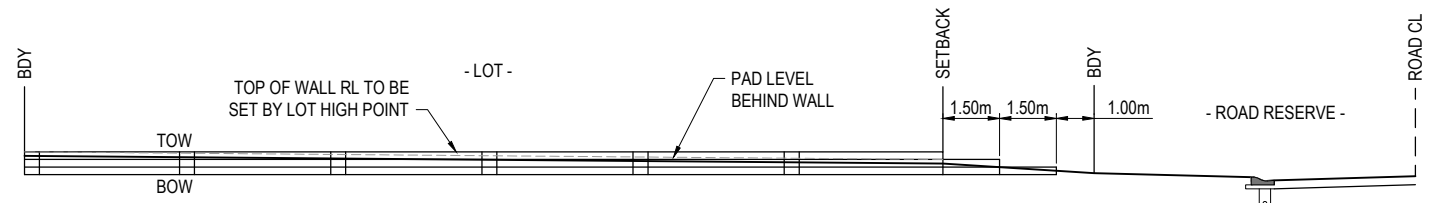
TYPICAL STEP BETWEEN LOTS DETAIL

SCALE 1:50 (A1)
SCALE 1:100 (A3)



SINGLE CONCRETE SLEEPER RETAINING WALL
(ADJACENT ROAD OR DRAINAGE RESERVE)
TYPICAL DETAIL

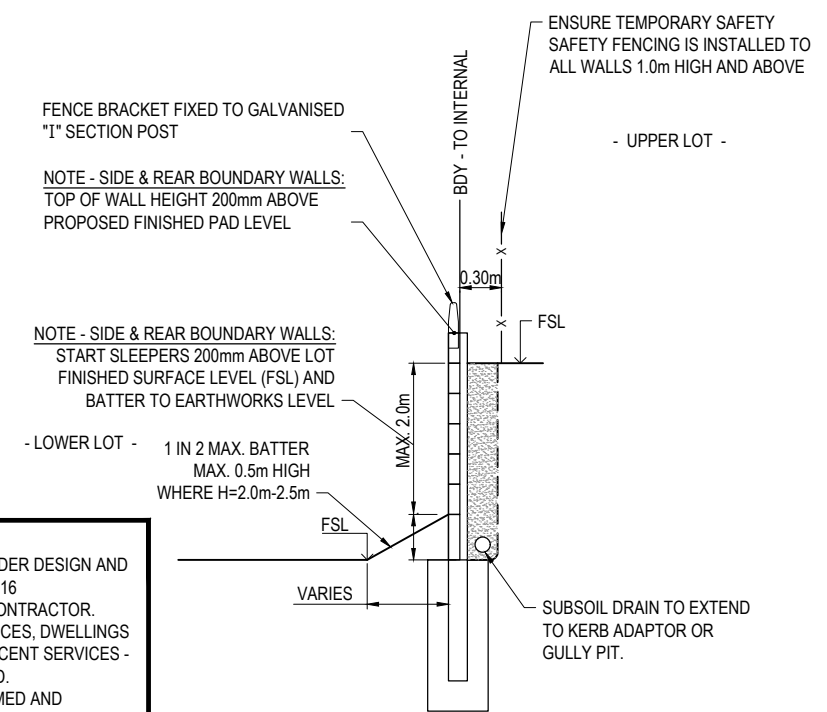
SCALE 1:25 (A1)
SCALE 1:50 (A3)



TYPICAL RETAINING WALL STEPPING DETAIL

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

- 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. DESIGN OF WALLS TO CONSIDER ALL LOADS (FENCES, DWELLINGS ETC) AND ASSOCIATED IMPACTS FROM ANY ADJACENT SERVICES - FOOTING DEPTHS TO BE EXTENDED AS REQUIRED.
 3. GEOTECHNICAL CONDITIONS ARE TO BE CONFIRMED AND APPROPRIATELY CONSIDERED FOR ALL WALLS.
 4. REFER LANDSCAPE DRAWINGS FOR FURTHER INFORMATION ON RETAINING WALLS, PARTICULARLY RELATING TO FINISHES.
 5. TEMPORARY SAFETY FENCING TO BE INSTALLED BEHIND ALL WALLS 1.0m HIGH AND GREATER.



SINGLE CONCRETE SLEEPER RETAINING WALL
(SIDE AND REAR BOUNDARIES)
TYPICAL DETAIL

SCALE 1:25 (A1)
SCALE 1:50 (A3)

REV	DATE	DESIGN	DRAWN	REVISION DETAILS
1	08.11.2024	SM	SM	ISSUED FOR APPROVAL
2	23.01.2025	NP	NP	COUNCIL RFTS ADDRESSED
3	30.01.2025	NP	NP	ISSUED FOR CONSTRUCTION

DRAWN	STATUS
NP	ISSUED FOR CONSTRUCTION



SCALE
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1:100 0 0.5 1.0 1.5 2.0 A1
1:200 0 0.5 1.0 1.5 2.0 A3

CLIENT
SATTERLEY PROPERTY GROUP PTY LTD

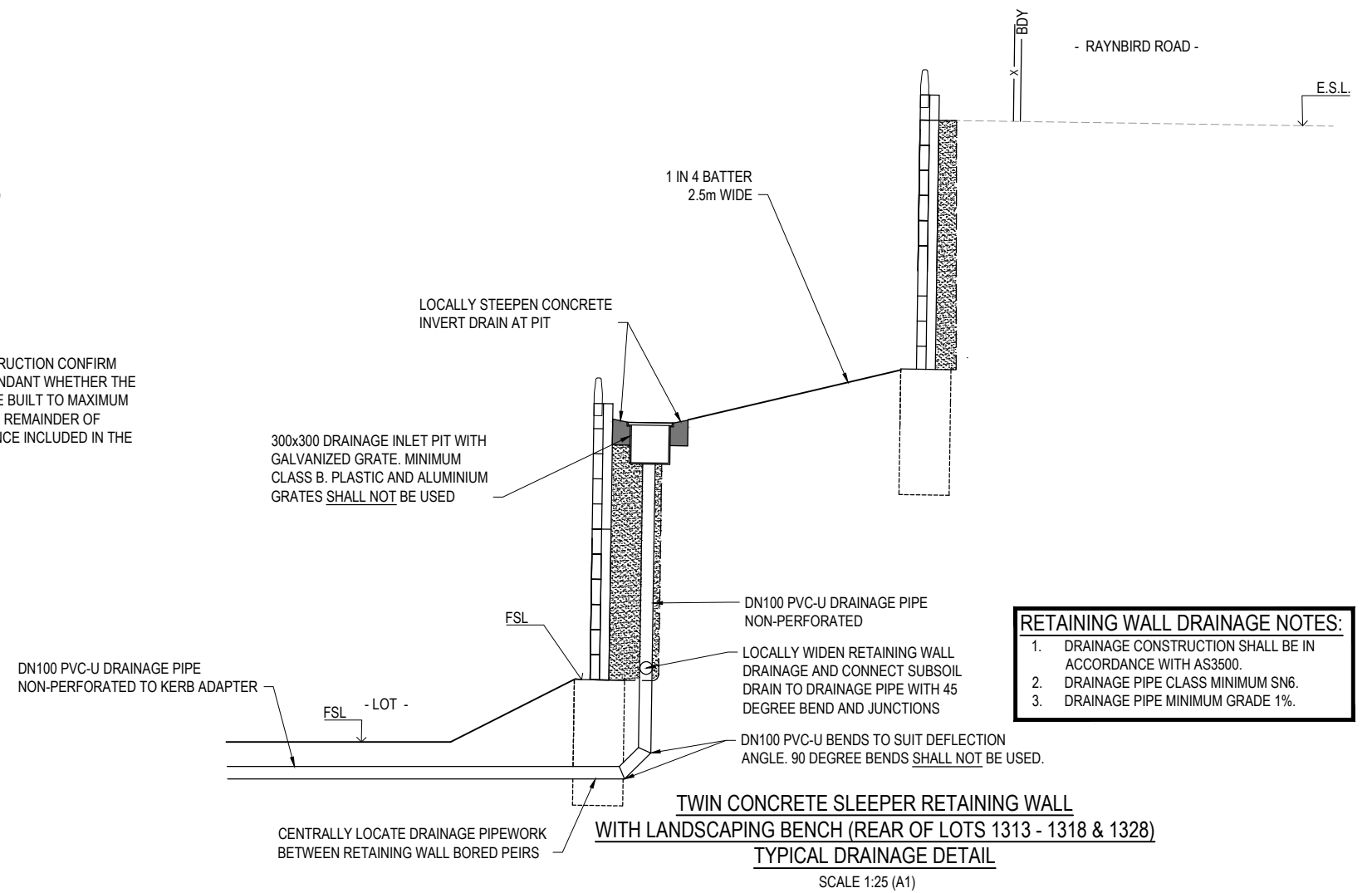
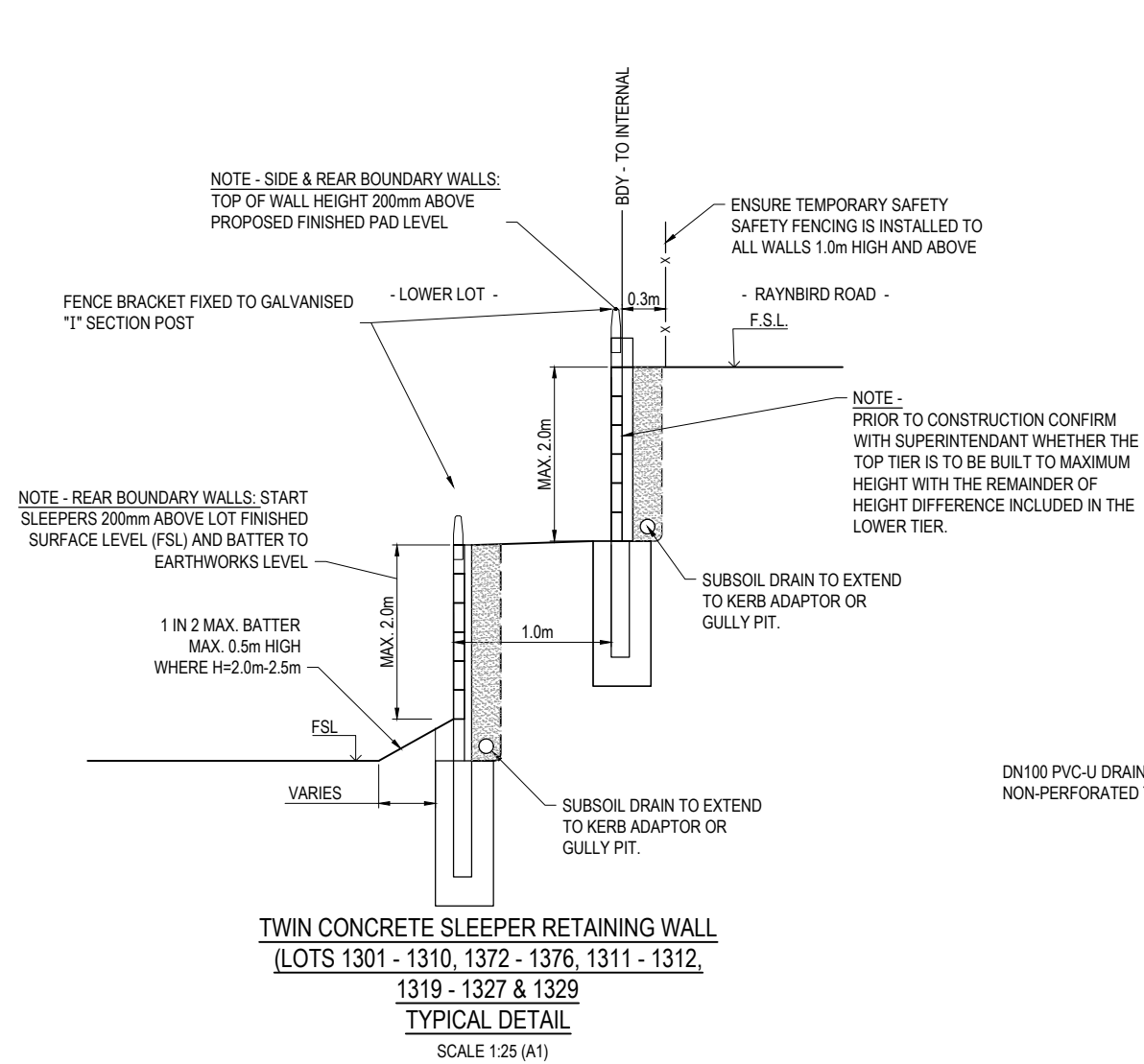
PROJECT NAME
RIDGEVIEW STAGE 13

DRAWING TITLE
BULK EARTHWORKS TYPICAL SECTIONS SHEET 2 OF 3

DESIGN	APPROVED	DATE
NP	JAMES VONHOFF	09.07.25

ASSOCIATED CONSULTANT
COLLIERS PTY LTD (07) 3532 1300

PROJECT No.	DRAWING No.	REVISION
21-0249	104	3



- RETAINING WALL DRAINAGE NOTES:**
1. DRAINAGE CONSTRUCTION SHALL BE IN ACCORDANCE WITH AS3500.
 2. DRAINAGE PIPE CLASS MINIMUM SN6.
 3. DRAINAGE PIPE MINIMUM GRADE 1%.

REV	DATE	DESIGN	DRAWN	REVISION DETAILS
1	08.11.2024	SM	SM	ISSUED FOR APPROVAL
2	23.01.2025	NP	NP	COUNCIL RFTS ADDRESSED
3	30.01.2025	NP	NP	ISSUED FOR CONSTRUCTION

DRAWN	STATUS
NP	ISSUED FOR CONSTRUCTION



SCALE
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1:50 1 0.5 0 1 2 A1
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CLIENT
SATTERLEY PROPERTY GROUP PTY LTD
ASSOCIATED CONSULTANT COLLIERS PTY LTD (07) 3532 1300

PROJECT NAME
RIDGEVIEW STAGE 13
RAYNBIRD ROAD NARANGBA

DRAWING TITLE		
BULK EARTHWORKS TYPICAL SECTIONS SHEET 3 OF 3		
PROJECT No. 21-0249	DRAWING No. 105	REVISION 3

LEGEND

- 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
- - - 24.0 FINISHED SURFACE CONTOUR
- PROPOSED STORMWATER DRAINAGE PIPE
- EXISTING STORMWATER DRAINAGE PIPE
- PROPOSED SWALE
- ▽ PROPOSED ROOFWATER KERB ADAPTOR
- ▽ PROPOSED ROOFWATER KERB ADAPTOR WITH PIPE CONNECTION TO ALL ALLOTMENT
- █ PROPOSED CONCRETE DRIVEWAY 150mm THICK OF CBR 15
- PROPOSED SINGLE CONCRETE SLEEPER RETAINING WALL
- PROPOSED TWIN CONCRETE SLEEPER RETAINING WALL
- EXISTING CONCRETE SLEEPER RETAINING WALL
- RETAINING WALL SUBSOIL PIPE EXTENSION
- PROPOSED SEWERAGE MAIN
- EXISTING SEWERAGE MAIN
- PROPOSED WATER MAIN
- EXISTING WATER MAIN
- PROPOSED WATER CONDUIT
- EXISTING WATER CONDUIT
- EXISTING ELECTRICAL CABLE U/G
- PROPOSED EASEMENT

ROOFWATER CONNECTION NOTE:

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 ADAPTOR 500mm FROM THE DOWNSTREAM BOUNDARY (UNLESS SHOWN ON A DIFFERENT ALIGNMENT). 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 THE LOCAL AUTHORITY STANDARDS.
- ONE 150Ø ROOFWATER PIPE CONNECTED TO PROPOSED STORMWATER GULLY PIT OR MANHOLE AT MINIMUM 1.0% GRADE WITH 1.0m COVER.

WARNING! - EXISTING SERVICES

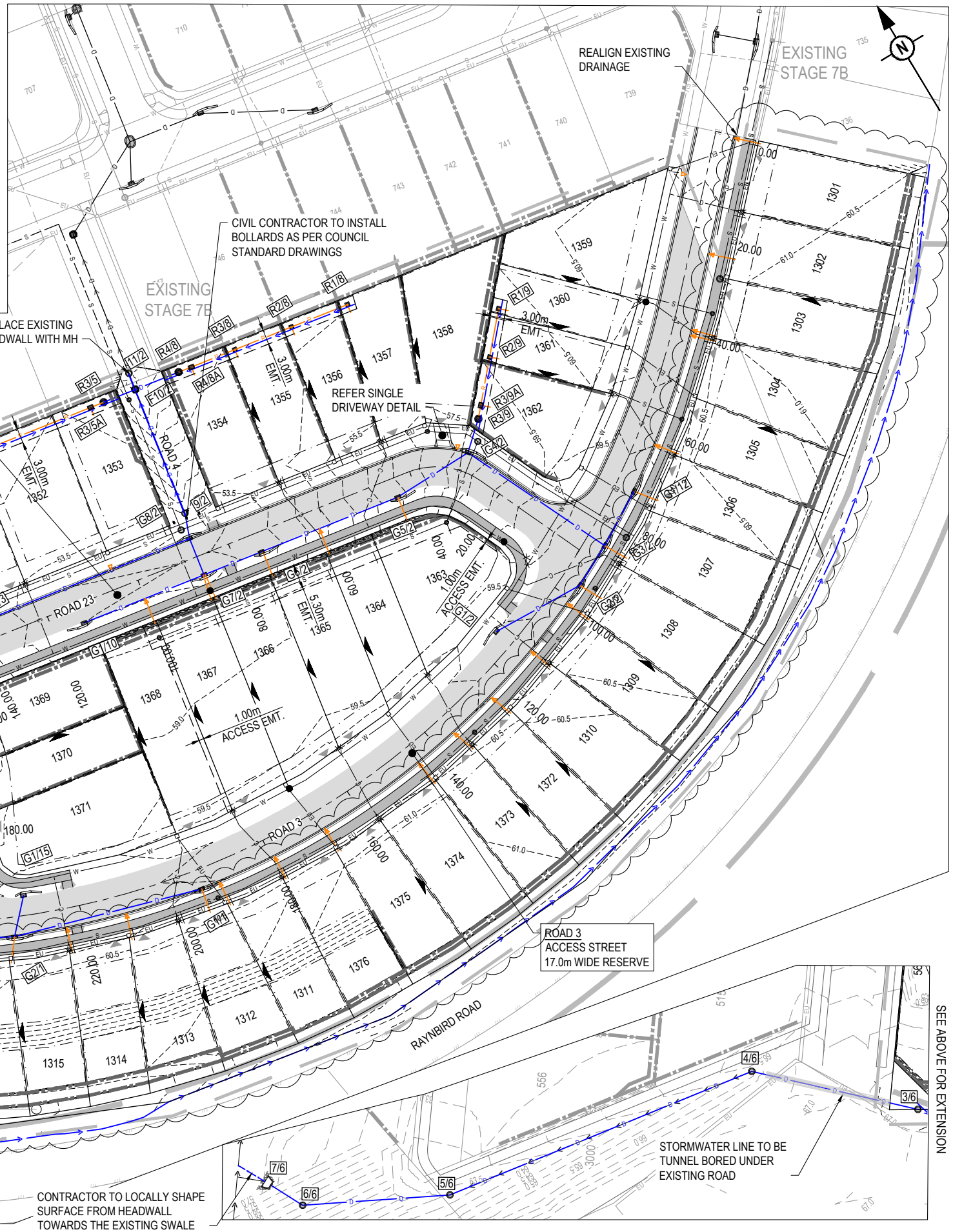
EXTREME CARE SHOULD BE TAKEN WHEN EXCAVATING IN THIS AREA. THE FOLLOWING EXISTING SERVICES ARE LIKELY TO BE PRESENT IN THE VICINITY OF THE SITE:

- 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.

KERB TYPES NOTE:

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



SEE BELOW FOR EXTENSION

SEE ABOVE FOR EXTENSION

REV	DATE	DESIGN	DRAWN	ISSUED FOR APPROVAL	REVISION DETAILS
1	08.11.2024	SM	SM	ISSUED FOR APPROVAL	
2	23.01.2025	NP	NP	COUNCIL RPTS ADDRESSED	
3	20.01.2025	NP	NP	ISSUED FOR CONSTRUCTION	
4	29.07.2025	NP	NP	DRIVEWAY & BIN BAY LOCATIONS UPDATED	
5	29.07.25	AF	AF	AMENDED RETAINING WALLS & PADS	

DRAWN	STATUS
A.F.	ISSUED FOR CONSTRUCTION
DESIGN	APPROVED
A.F.	JAMES VONHOFF
	RPEQ 32647
	DATE 09.07.25



SCALE

1:500 10 5 0 10 20 A1

1:1000

CLIENT

SATTERLEY PROPERTY GROUP PTY LTD

ASSOCIATED CONSULTANT

COLLIERS PTY LTD
(07) 3532 1300

PROJECT NAME

RIDGEVIEW STAGE 13

RAYNBIRD ROAD
NARANGBA

DRAWING TITLE

ROADWORKS AND DRAINAGE LAYOUT PLAN

PROJECT No. **21-0249**

DRAWING No. **106**

REVISION **5**

CONTROL LINE SETOUT DRIVEWAY 2								
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	DEP.SEG	DEP.RAD	DEP.LEN
S	0.000	492374.083	6992949.597		9°05'40.00"	ARC	8.500	7.163
CT	7.163	492372.278	6992956.312	55.648	9°05'40.00"	LINE		18.955
E	26.118	492375.274	6992975.029	55.743	9°05'40.00"			

CONTROL LINE SETOUT ROAD 11								
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	DEP.SEG	DEP.RAD	DEP.LEN
S	0.000	492296.077	6992936.453	58.984	29°59'59.94"	LINE		7.370
TC	7.370	492299.761	6992942.836	58.647	29°59'59.94"	ARC	-30.000	10.946
CT	18.316	492303.404	6992953.094	57.797	9°05'40.00"	LINE		65.302
E	83.618	492313.725	6993017.575	49.694	9°05'40.00"			

CONTROL LINE SETOUT ROAD 4							
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	DEP.SEG	DEP.LEN
S	0.000	492439.494	6992948.545	52.438	9°05'52.78"	LINE	30.002
DIS	30.002	492444.238	6992978.170	48.924	9°02'27.66"	LINE	1.994
E	31.995	492444.551	6992980.139	48.893	9°02'27.66"		

CONTROL LINE SETOUT DRIVEWAY 1								
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	DEP.SEG	DEP.RAD	DEP.LEN
S	0.000	492242.062	6992965.970	59.325	267°34'16.49"	LINE		0.034
TC	0.034	492242.029	6992965.969	59.326	267°34'16.49"	ARC	8.250	4.542
CT	4.575	492237.665	6992967.004	59.440	299°06'52.44"	LINE		0.128
DIS	4.703	492237.554	6992967.066	59.443	299°59'59.94"	LINE		51.784
E	56.487	492192.707	6992992.958	64.532	299°59'59.94"			

CONTROL LINE SETOUT ROAD 3								
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	DEP.SEG	DEP.RAD	DEP.LEN
S	0.000	492573.300	6992960.867	59.557	223°16'00.00"	LINE		36.680
TC	36.680	492548.159	6992934.157	60.406	223°16'00.00"	ARC	161.000	215.619
CT	252.299	492350.424	6992905.076	59.505	299°59'59.94"	LINE		102.407
TC	354.707	492261.736	6992956.280	59.342	299°59'59.94"	ARC	30.000	13.839
CT	368.546	492251.740	6992965.672	59.480	326°25'48.45"	LINE		1.952
E	370.498	492250.660	6992967.299	59.500	326°25'48.45"			

CONTROL LINE SETOUT ROAD 23								
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	DEP.SEG	DEP.RAD	DEP.LEN
S	0.000	492505.226	6992901.677	59.197	335°52'48.52"	LINE		24.687
TC	24.687	492495.138	6992924.209	57.694	335°52'48.52"	ARC	-16.000	15.858
CT	40.545	492483.063	6992933.469	56.267	279°05'40.00"	LINE		98.277
TC	138.822	492386.022	6992949.003	54.591	279°05'40.00"	ARC	-12.000	18.849
CT	157.671	492372.276	6992939.051	56.566	189°05'52.50"	LINE		5.267
TC	162.938	492371.443	6992933.851	57.119	189°05'52.50"	ARC	28.000	8.340
CT	171.277	492368.926	6992925.932	57.946	206°09'47.94"	LINE		27.204
E	198.481	492356.932	6992901.516	59.579	206°09'47.94"			



LEGEND

- PROPOSED AREA OF WORKS
- PROPOSED NEW ROAD PAVEMENT
- PROPOSED ROAD CONTROL LINE
- PROPOSED MOUNTABLE KERB AND CHANNEL TYPE M3
- PROPOSED BARRIER KERB AND CHANNEL TYPE B1
- PROPOSED CONCRETE PATH AND PRAM RAMP
- INDICATIVE DRIVEWAY LOCATION
- ZERO LOT BOUNDARY

REV	DATE	DESIGN	DRAWN	REVISION DETAILS
1	08.11.2024	SM	SM	ISSUED FOR APPROVAL
2	23.01.2025	NP	NP	COUNCIL RFP'S ADDRESSED
3	30.01.2025	NP	NP	ISSUED FOR CONSTRUCTION
4	09.07.2025	NP	NP	DRIVEWAY & BIN BAY LOCATIONS UPDATED

DRAWN	STATUS
NP	ISSUED FOR CONSTRUCTION



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

CLIENT
SATTERLEY PROPERTY GROUP PTY LTD

PROJECT NAME
RIDGEVIEW STAGE 13

DRAWING TITLE
SURVEY SETOUT AND KERB TYPES LAYOUT PLAN

DESIGN	APPROVED	RPEQ	DATE
NP	JAMES VONHOFF	32647	09.07.25

ASSOCIATED CONSULTANT
COLLIERS PTY LTD (07) 3532 1300

PROJECT No.	DRAWING No.	REVISION
21-0249	107	4

PROJECT No.	DRAWING No.	REVISION
21-0249	107	4

LOT 1332 DRIVEWAY SETOUT			
PT	EASTING	NORTHING	ELEVATION
1	492242.680	6992971.433	59.344
2	492241.430	6992972.302	59.477
3	492240.088	6992973.234	59.519
4	492241.594	6992975.841	59.518
5	492243.106	6992974.790	59.472
6	492244.350	6992973.926	59.338

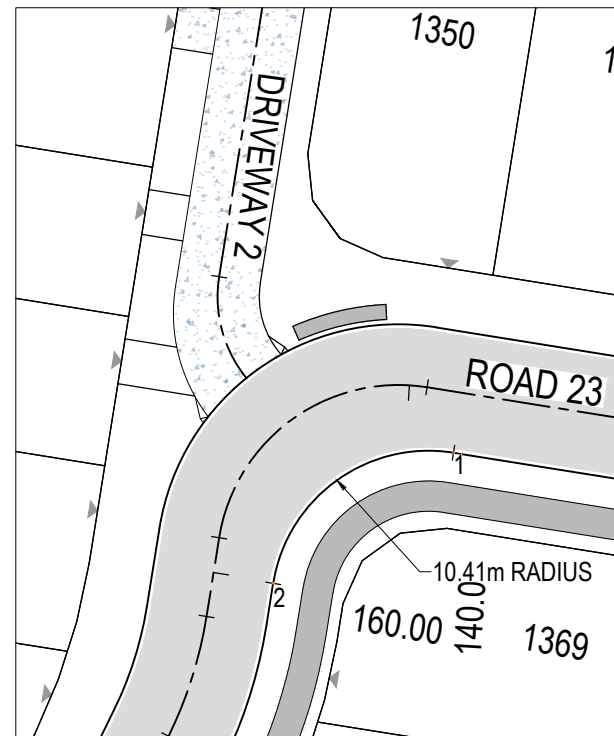
LOT 1333 & 1334 DRIVEWAY SETOUT			
PT	EASTING	NORTHING	ELEVATION
1	492252.959	6992976.498	59.302
2	492253.196	6992977.983	59.436
3	492253.616	6992980.609	59.489
4	492258.187	6992977.529	59.460
5	492257.875	6992975.577	59.413
6	492257.583	6992973.753	59.275

LOT 1326 DRIVEWAY SETOUT			
PT	EASTING	NORTHING	ELEVATION
1	492246.006	6992960.178	59.281
2	492245.255	6992958.878	59.414
3	492243.751	6992956.271	59.489
4	492246.349	6992954.771	59.485
5	492248.006	6992957.643	59.401
6	492248.784	6992958.989	59.266

LOT 1336 & 1337 DRIVEWAY SETOUT			
PT	EASTING	NORTHING	ELEVATION
1	492302.618	6992973.494	55.588
2	492301.137	6992973.731	55.722
3	492298.668	6992974.126	55.856
4	492299.459	6992979.063	55.721
5	492301.927	6992978.668	54.964
6	492303.409	6992978.431	54.830

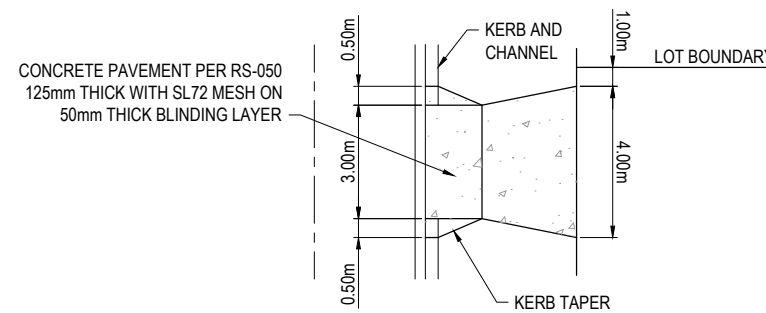
LOT 1346 DRIVEWAY SETOUT			
PT	EASTING	NORTHING	ELEVATION
1	492371.596	6992947.106	55.789
2	492367.778	6992948.885	55.914
3	492365.576	6992949.238	55.998
4	492366.050	6992952.200	55.964
5	492368.253	6992951.847	55.824

LOT 1358 DRIVEWAY SETOUT			
PT	EASTING	NORTHING	ELEVATION
1	492491.056	6992934.679	56.706
2	492491.610	6992936.098	56.817
3	492492.873	6992939.335	56.872
4	492495.415	6992937.596	57.048
5	492494.136	6992934.321	57.028
6	492493.561	6992932.846	56.930

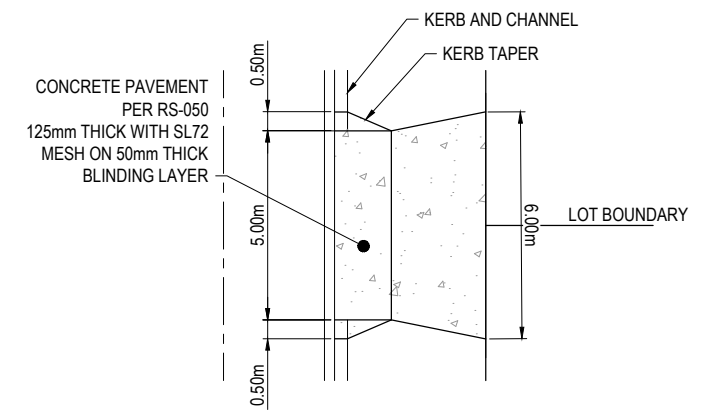


ROAD 23 CURVE WIDENING
SCALE 1:250 (A1)
SCALE 1:500 (A3)

ROAD 23 - CURVE WIDENING SETOUT		
PT	EASTING	NORTHING
1	492387.7689	6992944.6724
2	492375.8444	6992936.0393



TYPICAL SINGLE DRIVEWAY DETAIL
REFERENCE: MBRC STD. DWG. RS-049 & RS-050
SCALE 1:50 (A1)
SCALE 1:100 (A3)



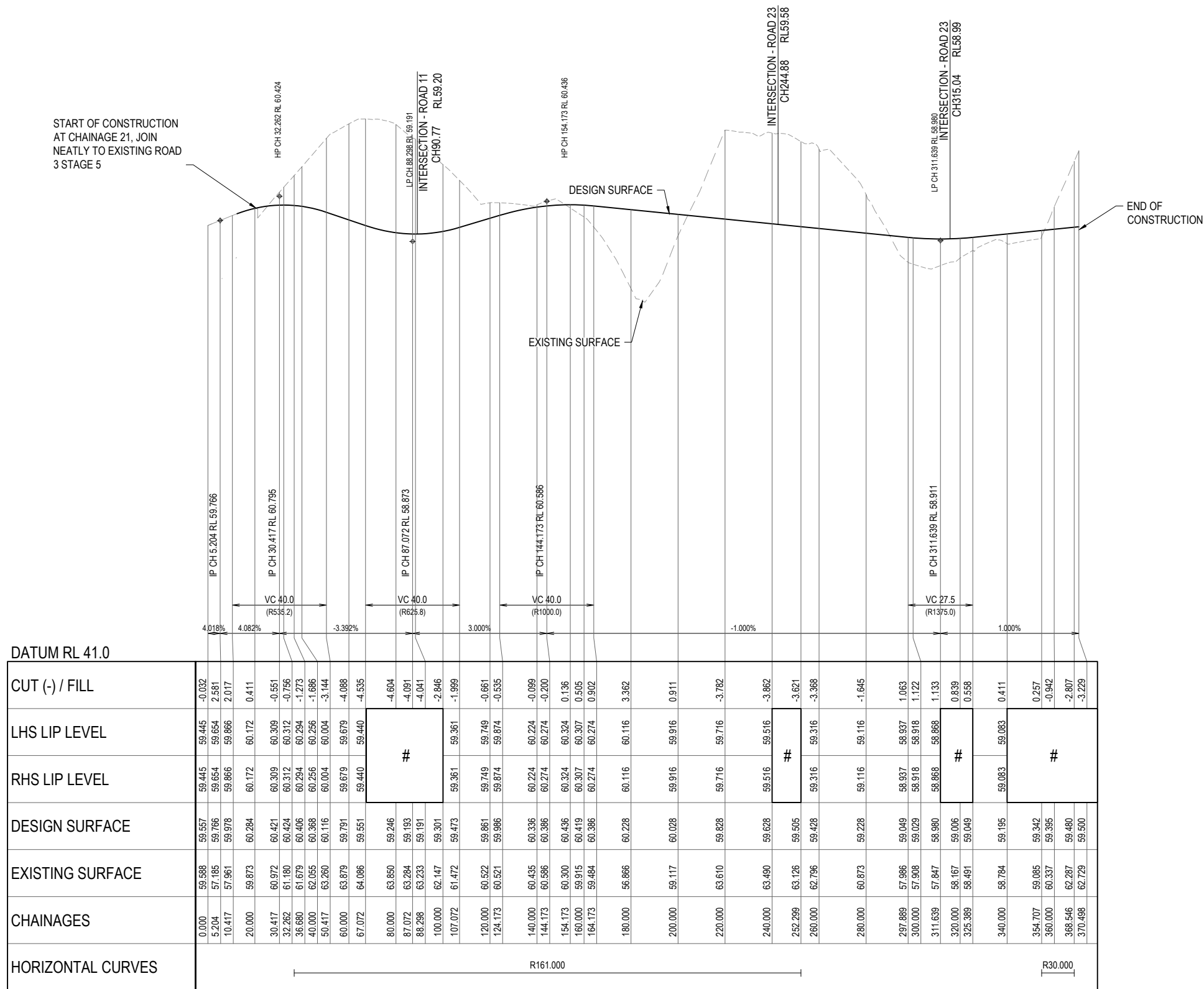
TYPICAL JOINT DRIVEWAY DETAIL
REFERENCE: MBRC STD. DWG. RS-049 & RS-050
SCALE 1:50 (A1)
SCALE 1:100 (A3)

REV	DATE	DESIGN	DRAWN	REVISION DETAILS	DRAWN	STATUS	SCALE	CLIENT	PROJECT NAME	DRAWING TITLE
1	08.11.2024	SM	SM	ISSUED FOR APPROVAL						
2	23.01.2025	NP	NP	COUNCIL RFP'S ADDRESSED	NP	ISSUED FOR CONSTRUCTION				
3	30.01.2025	NP	NP	ISSUED FOR CONSTRUCTION						
4	09.07.2025	NP	NP	DRIVEWAY & BIN BAY LOCATIONS UPDATED						
					DESIGN	APPROVED				
					NP	JAMES VONHOFF <i>vonhoff</i>	RPEQ 32647	DATE 09.07.25		
					FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD					
							AS SHOWN	SATTERLEY PROPERTY GROUP PTY LTD	RIDGEVIEW STAGE 13	DRIVEWAY SETOUT TABLES
								ASSOCIATED CONSULTANT COLLIERS PTY LTD (07) 3532 1300	RAYNBIRD ROAD NARANGBA	PROJECT No. 21-0249
										DRAWING No. 108
										REVISION 4

ASSUMED PAVEMENT DETAILS (SUBJECT TO CBR TESTING)

ROAD	ROAD CLASSIFICATION	DESIGN ESAS	ASSUMED CBR	SURFACING	BASE	SUB BASE	LOWER SUB BASE	TOTAL DEPTH
ROAD 21	LIVING RESIDENTIAL	1.2 x 10 ⁵	3	30mm	100mm	100mm	100mm	325mm

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



HORIZ SCALE: 1000
VERTICAL SCALE: 100

REFER INTERSECTION DRAWINGS FOR LIP LEVELS

ROAD 3

REV	DATE	DESIGN	DRAWN	REVISION DETAILS
1	08.11.2024	SM	SM	ISSUED FOR APPROVAL
2	23.01.2025	NP	NP	COUNCIL RFTS ADDRESSED
3	30.01.2025	NP	NP	ISSUED FOR CONSTRUCTION

DRAWN	STATUS
NP	ISSUED FOR CONSTRUCTION

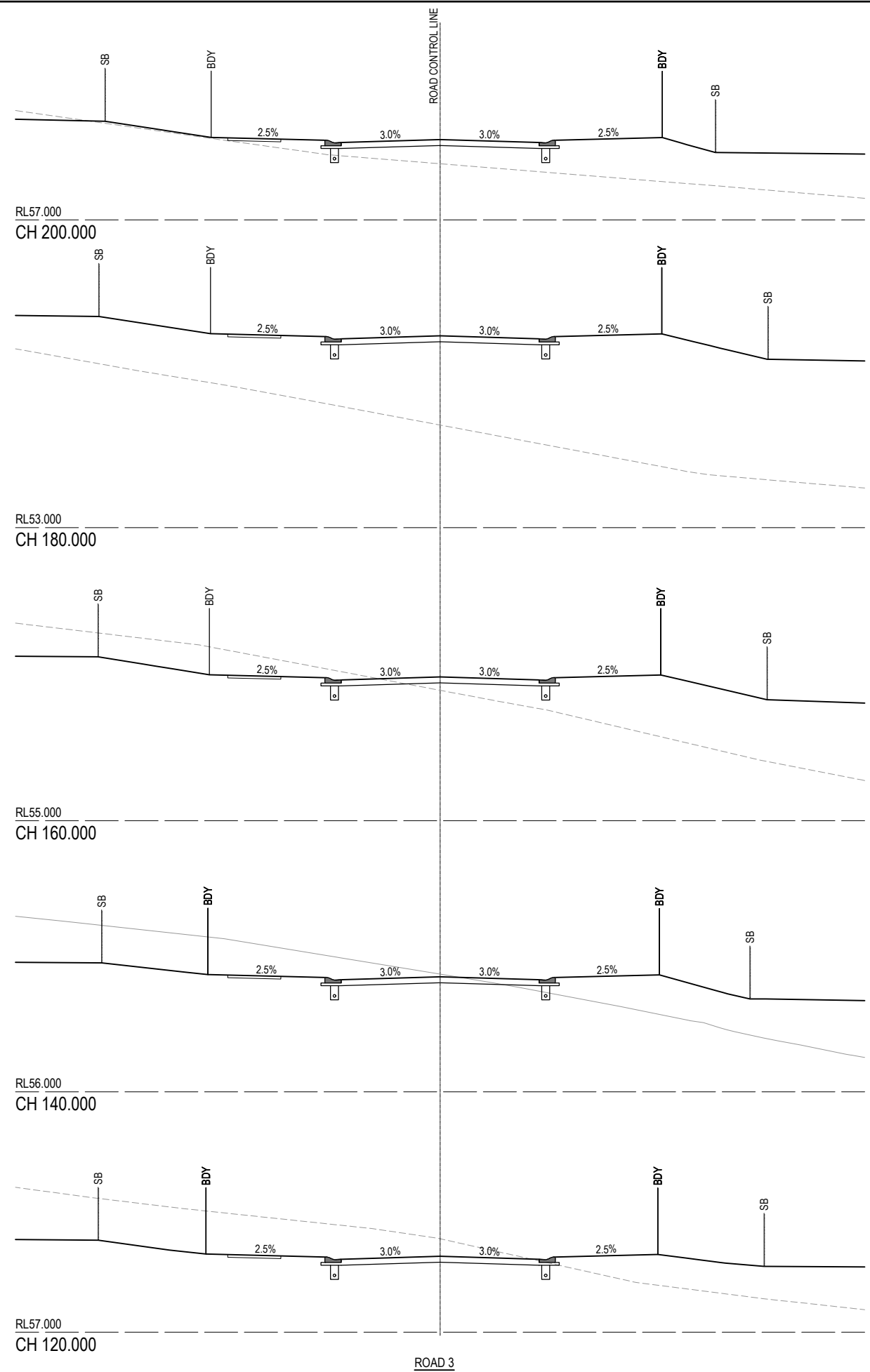
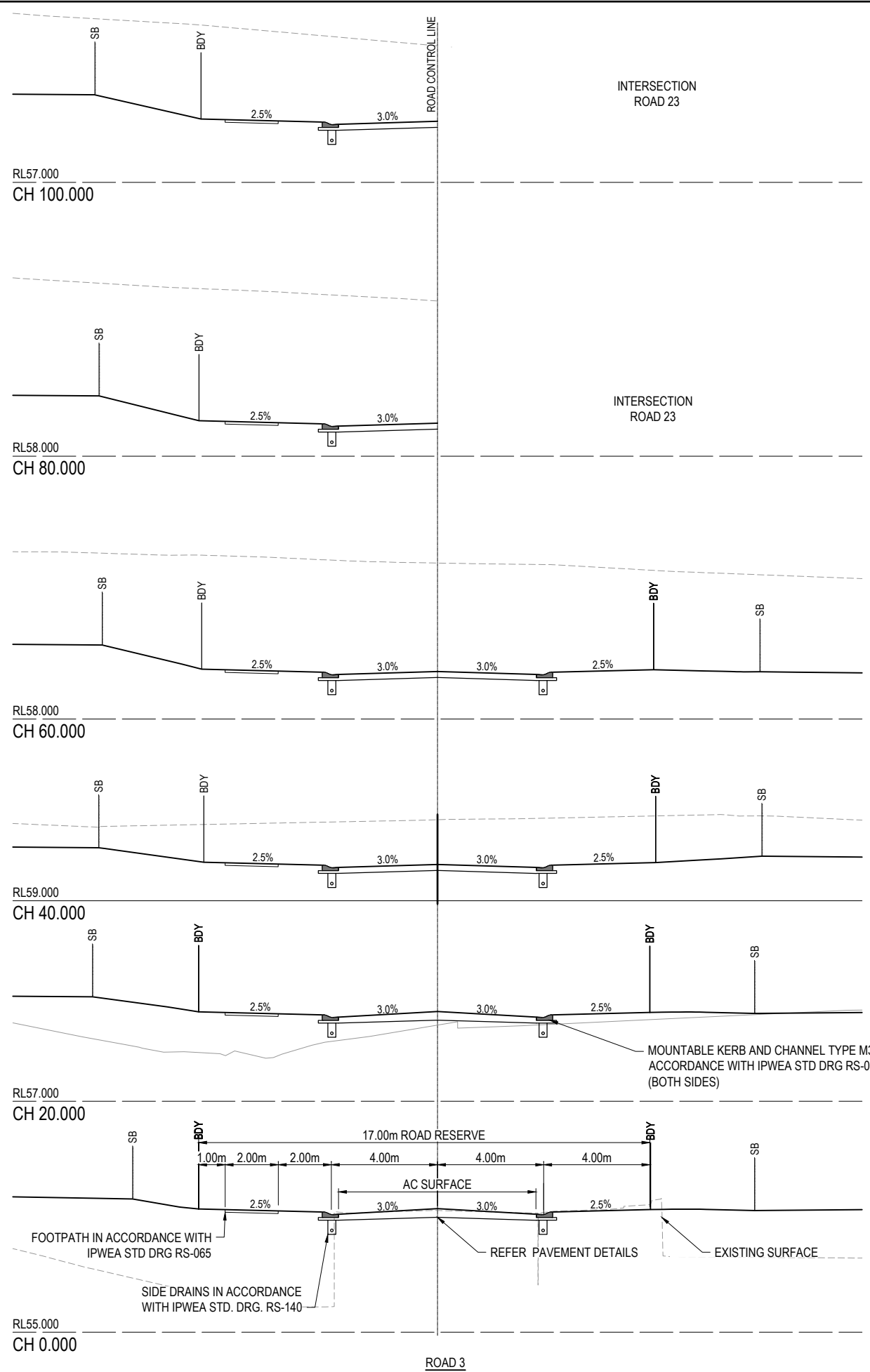
DESIGN APPROVED
JAMES VONHOFF
James Vonhoff
 RPEQ 32647 DATE 09.07.25
 FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD

SCALE
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 1:2000 HORIZONTAL A3
 1:100 2 1 0 2 4 A1
 1:200 VERTICAL A3

CLIENT
SATTERLEY PROPERTY GROUP PTY LTD
 ASSOCIATED CONSULTANT
 COLLIER'S PTY LTD
 (07) 3532 1300

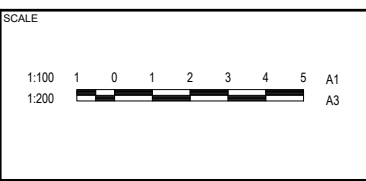
PROJECT NAME
RIDGEVIEW STAGE 13
 RAYNBIRD ROAD
 NARANGBA

DRAWING TITLE
ROAD 3 LONGITUDINAL SECTION
 PROJECT No. **21-0249**
 DRAWING No. **109**
 REVISION **3**



REV	DATE	DESIGN	DRAWN	REVISION DETAILS
1	08.11.2024	SM	SM	ISSUED FOR APPROVAL
2	23.01.2025	NP	NP	COUNCIL RFTS ADDRESSED
3	30.01.2025	NP	NP	ISSUED FOR CONSTRUCTION

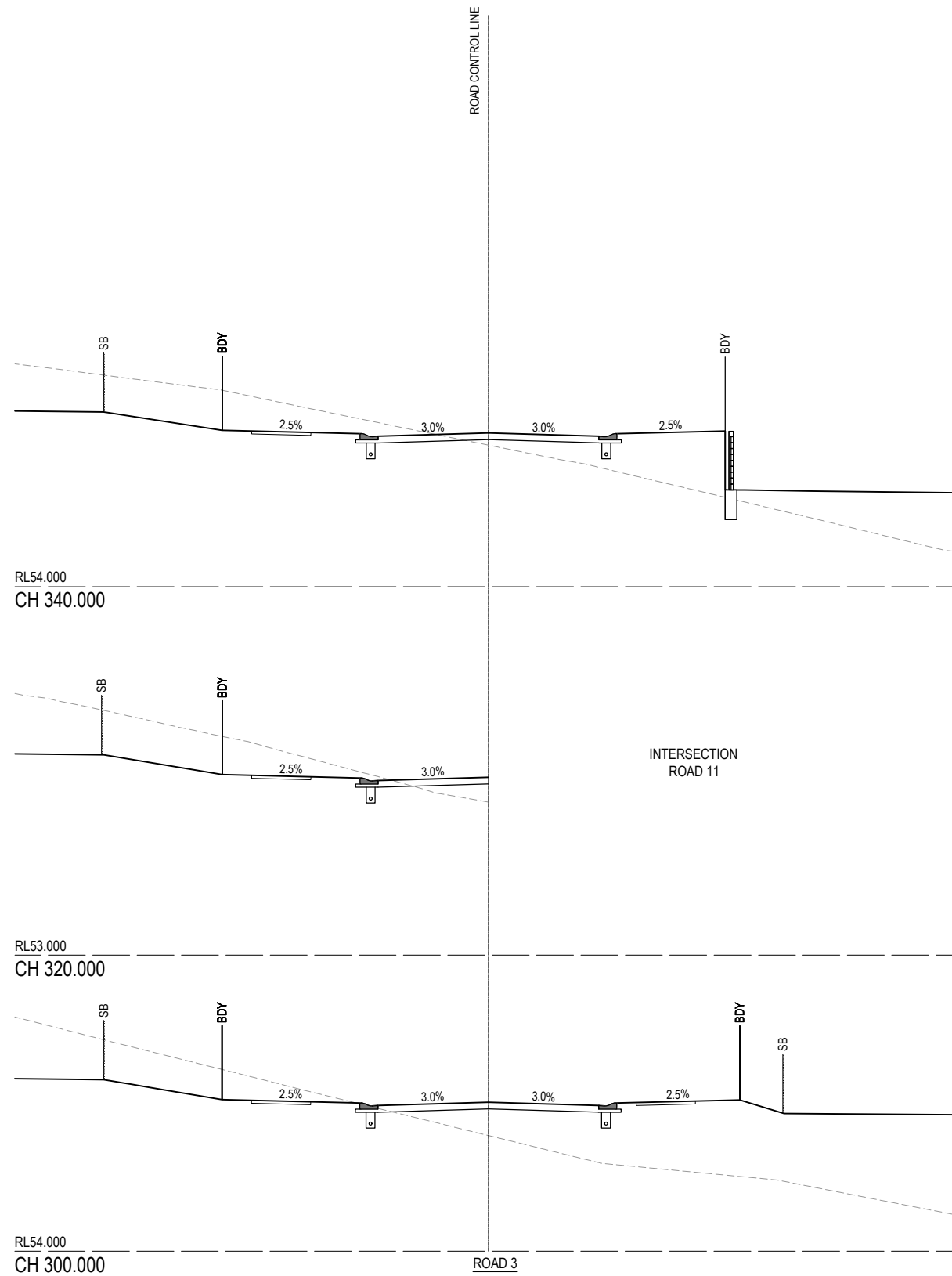
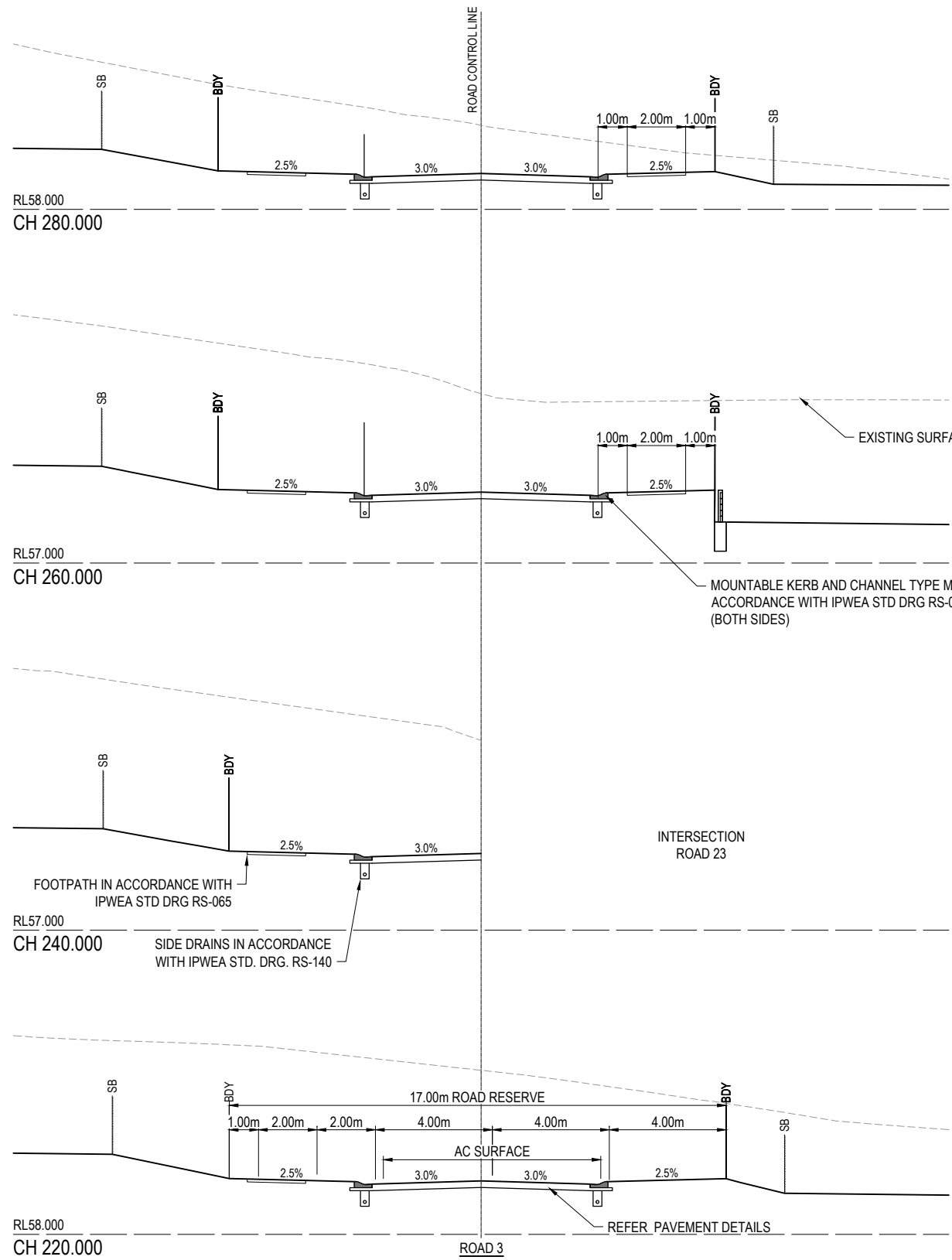
DRAWN	STATUS
NP	ISSUED FOR CONSTRUCTION
DESIGN	APPROVED
NP	JAMES VONHOFF RPEQ 32647 DATE 09.07.25
FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD	



CLIENT
SATTERLEY PROPERTY GROUP PTY LTD
ASSOCIATED CONSULTANT
COLLIERS PTY LTD (07) 3532 1300

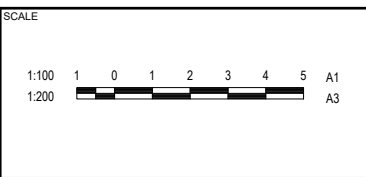
PROJECT NAME
RIDGEVIEW STAGE 13
RAYNBIRD ROAD NARANGBA

DRAWING TITLE		
ROAD 3 CROSS SECTIONS SHEET 1 OF 2		
PROJECT No.	DRAWING No.	REVISION
21-0249	110	3



REV	DATE	DESIGN	DRAWN	REVISION DETAILS
1	08.11.2024	SM	SM	ISSUED FOR APPROVAL
2	23.01.2025	NP	NP	COUNCIL RFTS ADDRESSED
3	30.01.2025	NP	NP	ISSUED FOR CONSTRUCTION

DRAWN	STATUS
NP	ISSUED FOR CONSTRUCTION
DESIGN	APPROVED
NP	JAMES VONHOFF RPEQ 32647 DATE 09.07.25



CLIENT
SATTERLEY PROPERTY GROUP PTY LTD

ASSOCIATED CONSULTANT
COLLIERS PTY LTD
(07) 3532 1300

PROJECT NAME
RIDGEVIEW STAGE 13

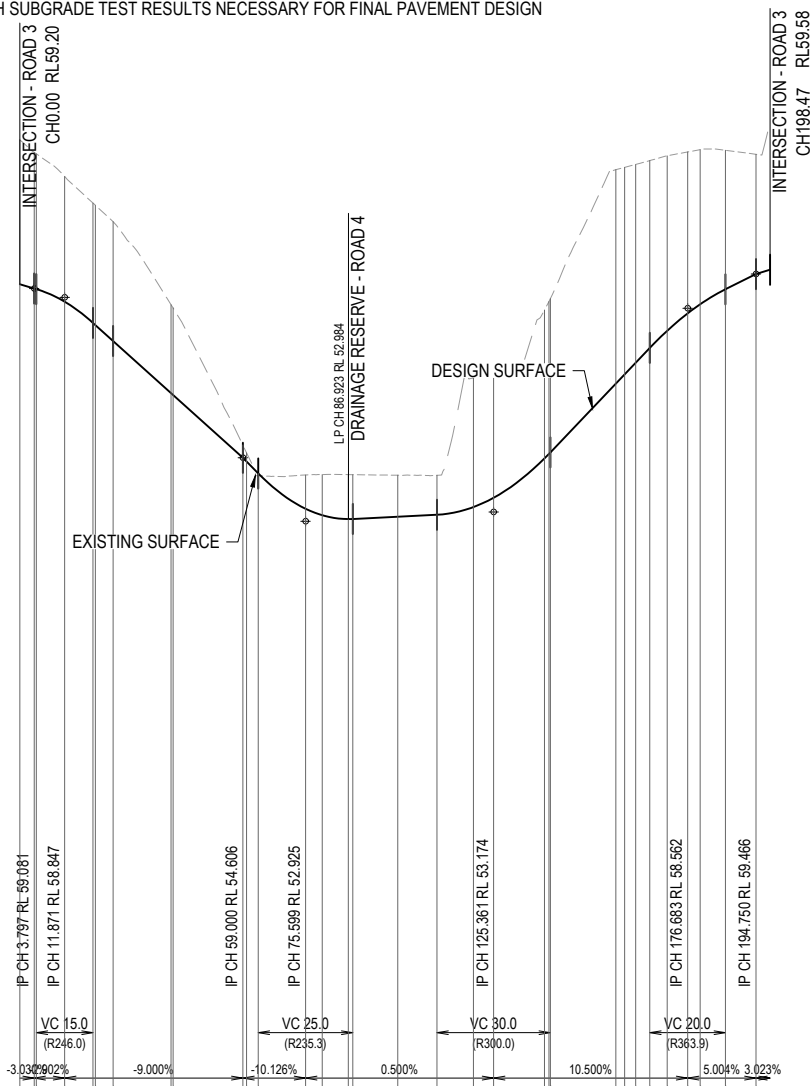
RAYNBIRD ROAD
NARANGBA

DRAWING TITLE		
ROAD 3 CROSS SECTIONS SHEET 2 OF 2		
PROJECT No.	DRAWING No.	REVISION
21-0249	111	3

ASSUMED PAVEMENT DETAILS (SUBJECT TO CBR TESTING)

ROAD	ROAD CLASSIFICATION	DESIGN ESAs	ASSUMED CBR	SURFACING	BASE	SUB BASE	LOWER SUB BASE	TOTAL DEPTH
ROAD 21	LIVING RESIDENTIAL	1.2 x 10 ⁵	3	30mm	100mm	100mm	100mm	325mm

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 37.0

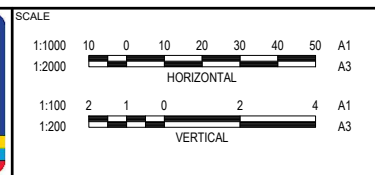
CUT (-) / FILL	CHAINAGES	EXISTING SURFACE	DESIGN SURFACE	RHS LIP LEVEL	LHS LIP LEVEL
-3.818	0.000	63.014	59.197		
-3.602	3.797	62.683	59.081		
-3.579	4.371	62.644	59.065		
-3.315	11.871	62.048	58.733	58.621	58.621
-3.168	19.371	61.341	58.172	58.060	58.060
-3.167	20.000	61.283	58.116	58.004	58.004
-3.157	24.687	60.851	57.694	57.582	57.582
-2.340	40.000	58.655	56.316	56.204	56.204
-2.303	40.545	58.569	56.267	56.155	56.155
-0.339	59.000	54.945	54.606	54.494	54.494
-0.232	60.000	54.737	54.504	54.392	54.392
0.061	63.099	54.130	54.191	54.079	54.079
-0.893	75.599	54.150	53.257	53.145	53.145
-1.077	80.000	54.163	53.086	52.974	52.974
-1.176	86.923	54.161	52.984	52.872	52.872
-1.172	88.099	54.159	52.987	52.875	52.875
-1.098	100.000	54.144	53.047	52.935	52.935
-1.045	110.361	54.144	53.099	52.987	52.987
-3.415	120.000	56.717	53.302	53.190	53.190
-3.363	125.361	56.911	53.549	53.437	53.437
-3.922	138.822	58.513	54.691	54.479	54.479
-4.029	140.000	58.739	54.711	54.599	54.599
-4.064	140.361	58.813	54.748	54.637	54.637
-5.658	157.671	62.224	56.566	56.454	56.454
-5.476	160.000	62.286	56.811	56.699	56.699
-5.245	162.938	62.364	57.119	57.007	57.007
-4.954	165.683	62.466	57.512	57.400	57.400
-4.271	171.277	62.592	57.996	57.884	57.884
-4.089	176.683	62.695	58.425	58.313	58.313
-4.089	180.000	62.756	58.667	58.555	58.555
-3.675	186.683	62.738	59.063		
-3.167	194.750	62.633	59.466		

HORIZ SCALE: 1000 REFER INTERSECTION DRAWINGS FOR LIP LEVELS
 VERTICAL SCALE: 100

ROAD 23

REV	DATE	DESIGN	DRAWN	REVISION DETAILS
1	08.11.2024	SM	SM	ISSUED FOR APPROVAL
2	23.01.2025	NP	NP	COUNCIL RFTS ADDRESSED
3	30.01.2025	NP	NP	ISSUED FOR CONSTRUCTION

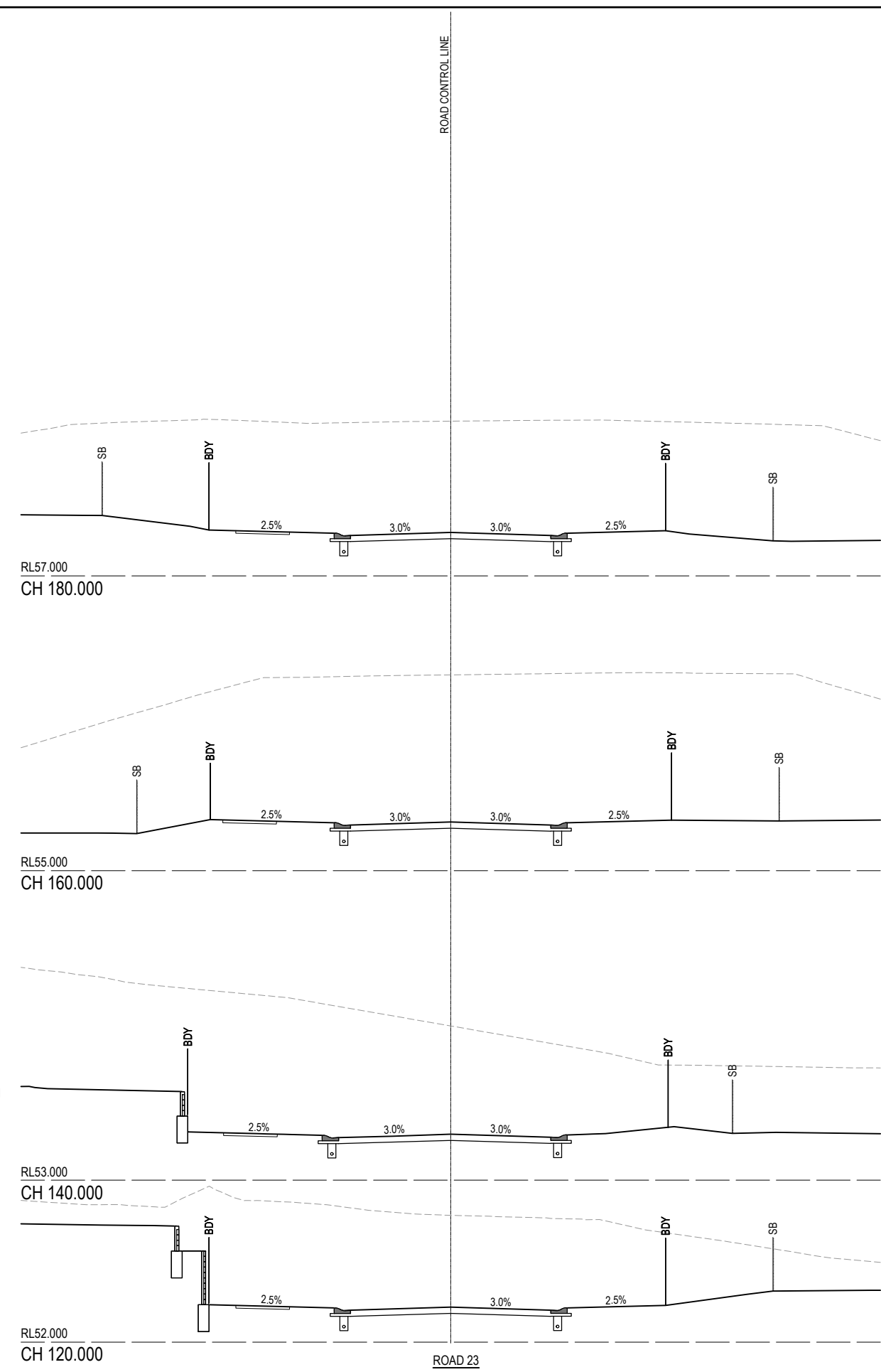
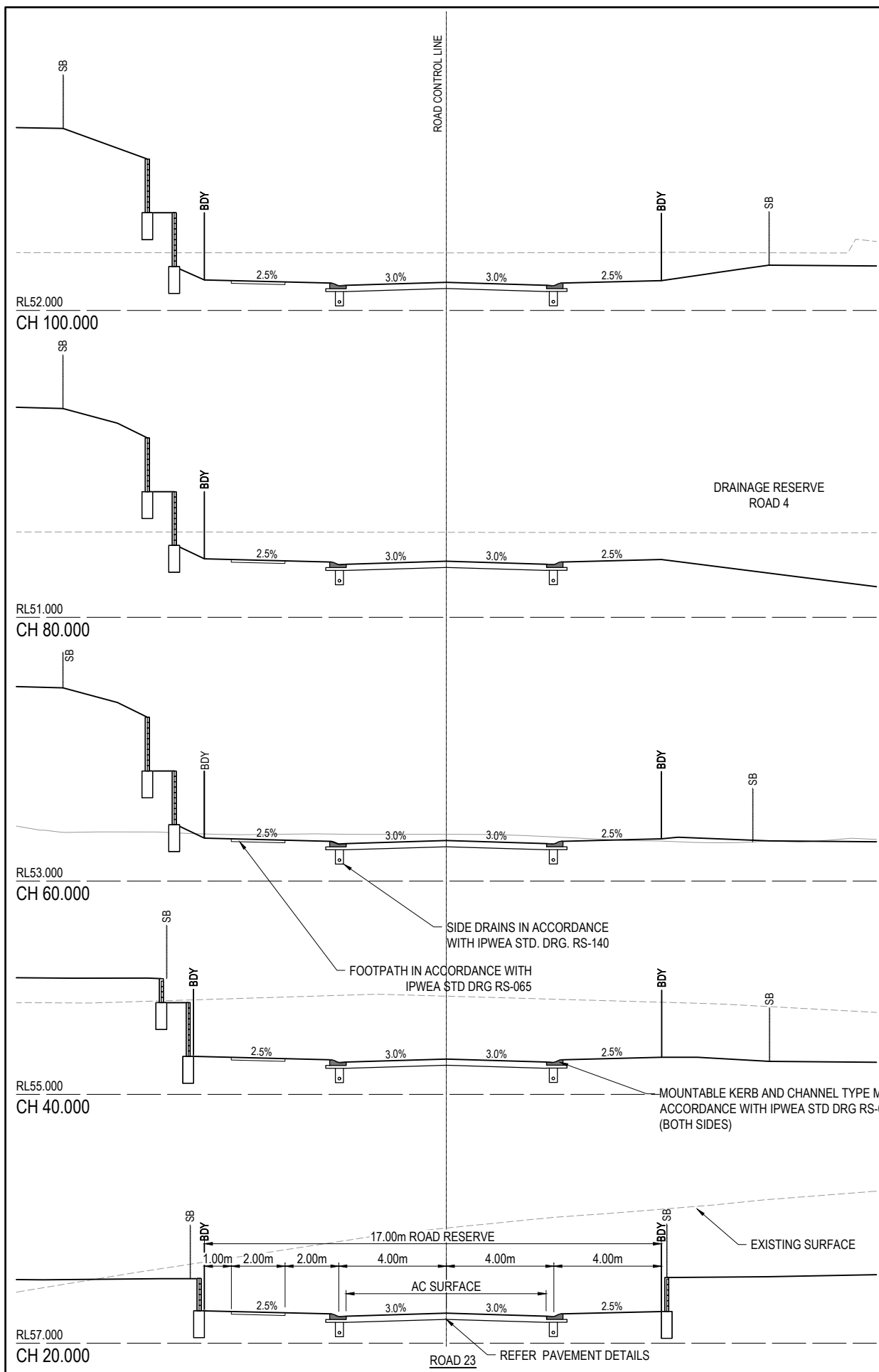
DRAWN	STATUS	
NP	ISSUED FOR CONSTRUCTION	
DESIGN	APPROVED	DATE
NP	JAMES VONHOFF	09.07.25
	RPEQ 32647	
FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD		



CLIENT
SATTERLEY PROPERTY GROUP PTY LTD
ASSOCIATED CONSULTANT
COLLIERS PTY LTD (07) 3532 1300

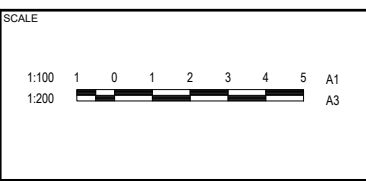
PROJECT NAME
RIDGEVIEW STAGE 13
RAYNBIRD ROAD NARANGBA

DRAWING TITLE		
ROAD 23 LONGITUDINAL SECTION		
PROJECT No.	DRAWING No.	REVISION
21-0249	112	3



REV	DATE	DESIGN	DRAWN	REVISION DETAILS
1	08.11.2024	SM	SM	ISSUED FOR APPROVAL
2	23.01.2025	NP	NP	COUNCIL RFTS ADDRESSED
3	30.01.2025	NP	NP	ISSUED FOR CONSTRUCTION

DRAWN	STATUS
NP	ISSUED FOR CONSTRUCTION
DESIGN	APPROVED
NP	JAMES VONHOFF RPEQ 32647 DATE 09.07.25
	<i>gvonhoff</i>
FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD	



CLIENT
SATTERLEY PROPERTY GROUP PTY LTD

ASSOCIATED CONSULTANT
COLLIERS PTY LTD
(07) 3532 1300

PROJECT NAME
RIDGEVIEW STAGE 13

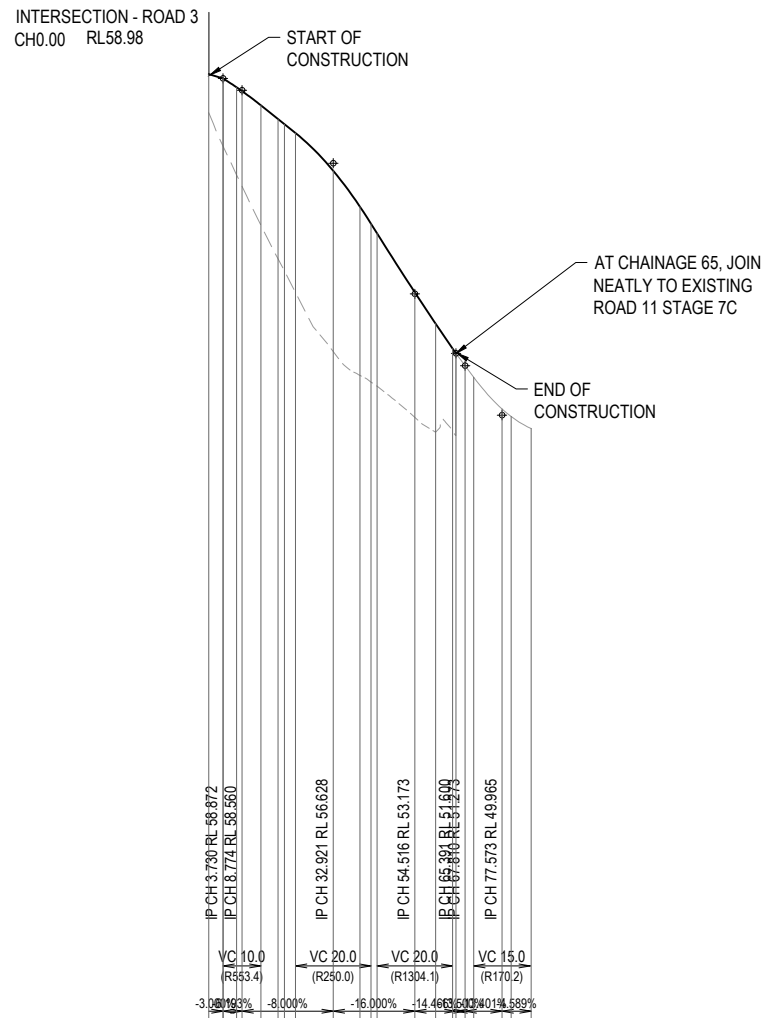
RAYNBIRD ROAD
NARANGBA

DRAWING TITLE		
ROAD 23 CROSS SECTIONS		
PROJECT No.	DRAWING No.	REVISION
21-0249	113	3

ASSUMED PAVEMENT DETAILS (SUBJECT TO CBR TESTING)

ROAD	ROAD CLASSIFICATION	DESIGN ESAs	ASSUMED CBR	SURFACING	BASE	SUB BASE	LOWER SUB BASE	TOTAL DEPTH
ROAD 21	LIVING RESIDENTIAL	1.2 x 10 ⁵	3	30mm	100mm	100mm	100mm	325mm

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

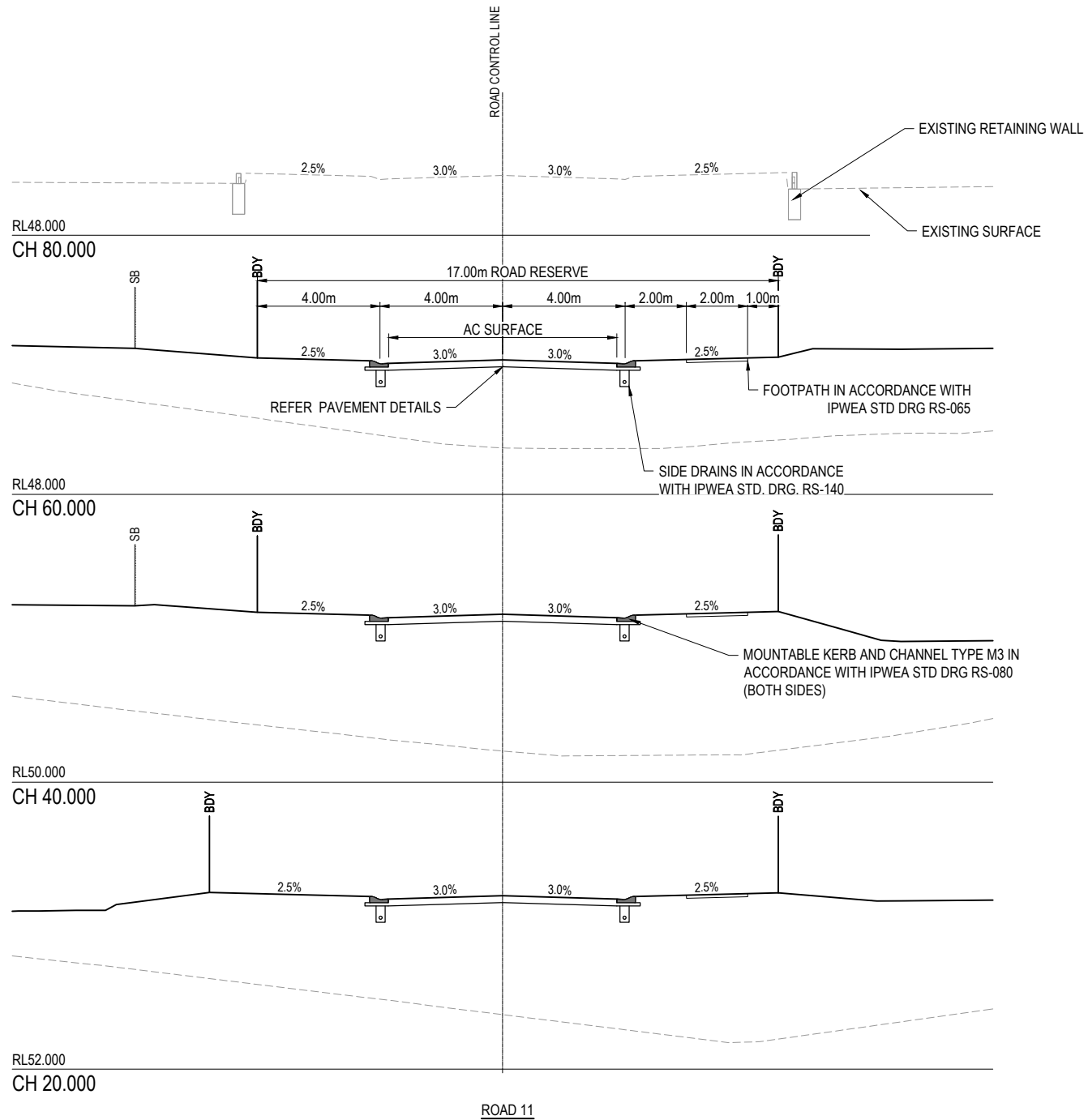


DATUM RL 33.0

CUT (-) / FILL	1.783	1.790	2.319	2.518	3.171	3.698	4.217	4.462	4.192	4.040	3.306	2.868	2.181	2.236	2.013	0.649	0.194
LHS LIP LEVEL																	
RHS LIP LEVEL																	
DESIGN SURFACE	58.984	58.872	58.870	58.635	58.537	58.160	57.797	57.428	56.428	55.028	54.773	53.212	52.388	51.727	51.600	50.970	49.612
EXISTING SURFACE	57.080	57.080	56.316	56.019	54.989	54.089	53.779	53.212	51.651	50.837	50.733	49.906	49.519	49.546	49.364	48.957	49.462
CHAINAGES	0.000	3.730	7.374	10.989	14.574	18.131	21.662	25.174	28.662	32.121	35.551	38.951	42.321	45.671	49.001	52.311	55.601
HORIZONTAL CURVES	R-30.000																

ROAD 11

HORIZ SCALE: 1000
VERTICAL SCALE: 100
REFER INTERSECTION DRAWINGS FOR LIP LEVELS



ROAD 11

REV	DATE	DESIGN	DRAWN	REVISION DETAILS
1	08.11.2024	SM	SM	ISSUED FOR APPROVAL
2	23.01.2025	NP	NP	COUNCIL RFTS ADDRESSED
3	30.01.2025	NP	NP	ISSUED FOR CONSTRUCTION

DRAWN	STATUS
NP	ISSUED FOR CONSTRUCTION

DESIGN APPROVED
JAMES VONHOFF
RPEQ 32647
DATE 09.07.25

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

SCALE

1:100 1 0 1 2 3 4 5 A1
1:200 1 0 10 20 30 40 50 A3
1:1000 1 0 1 2 3 4 5 A1
1:2000 1 0 1 2 3 4 5 A3

GROSS SECTIONS
HORIZONTAL
VERTICAL

CLIENT
SATTERLEY PROPERTY GROUP PTY LTD

ASSOCIATED CONSULTANT
COLLIERS PTY LTD
(07) 3532 1300

PROJECT NAME
RIDGEVIEW STAGE 13

RAYNBIRD ROAD
NARANGBA

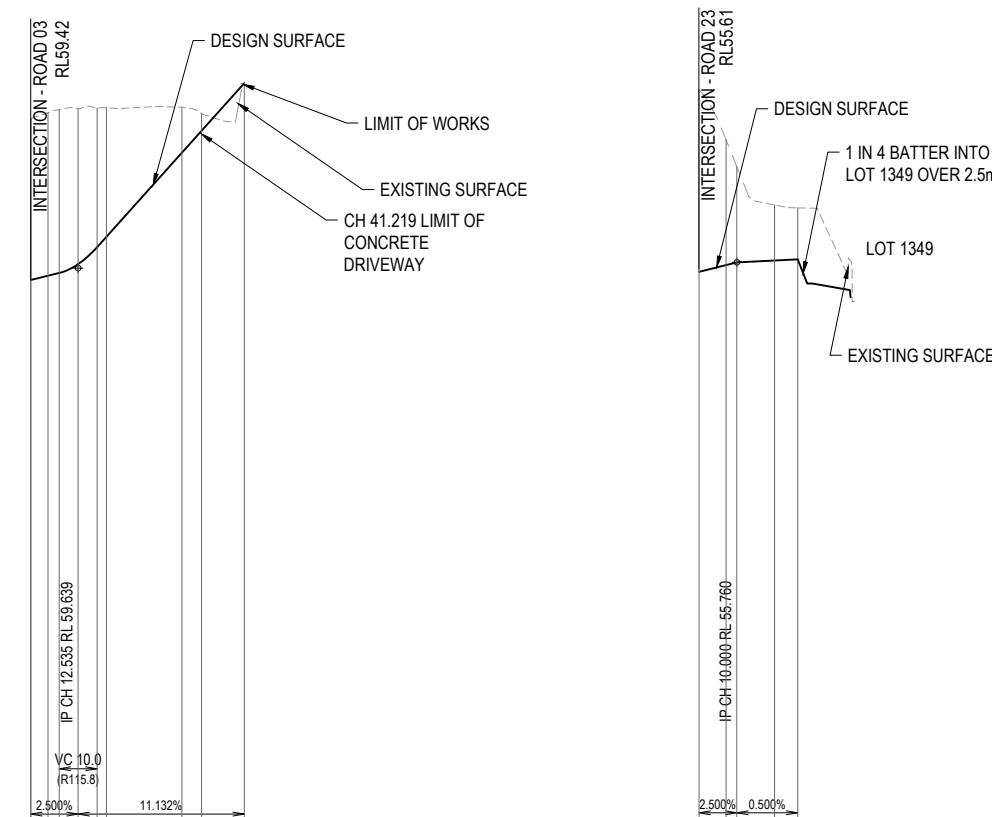
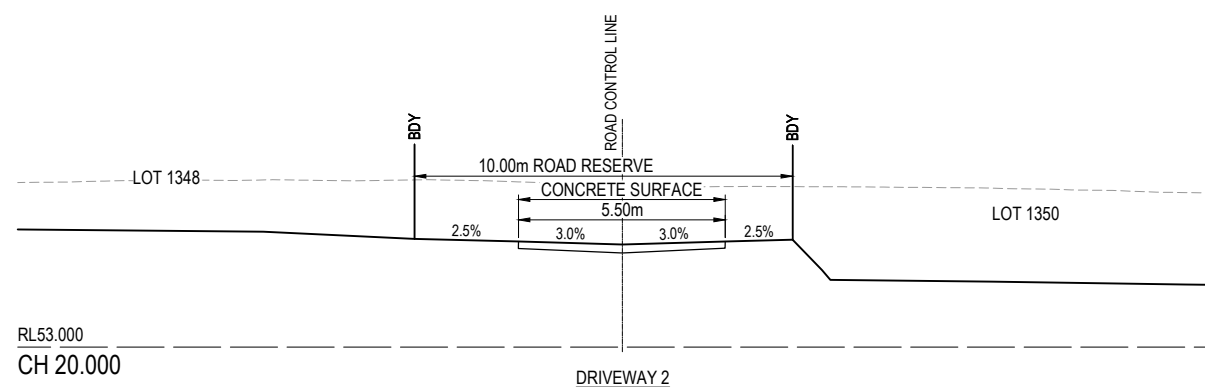
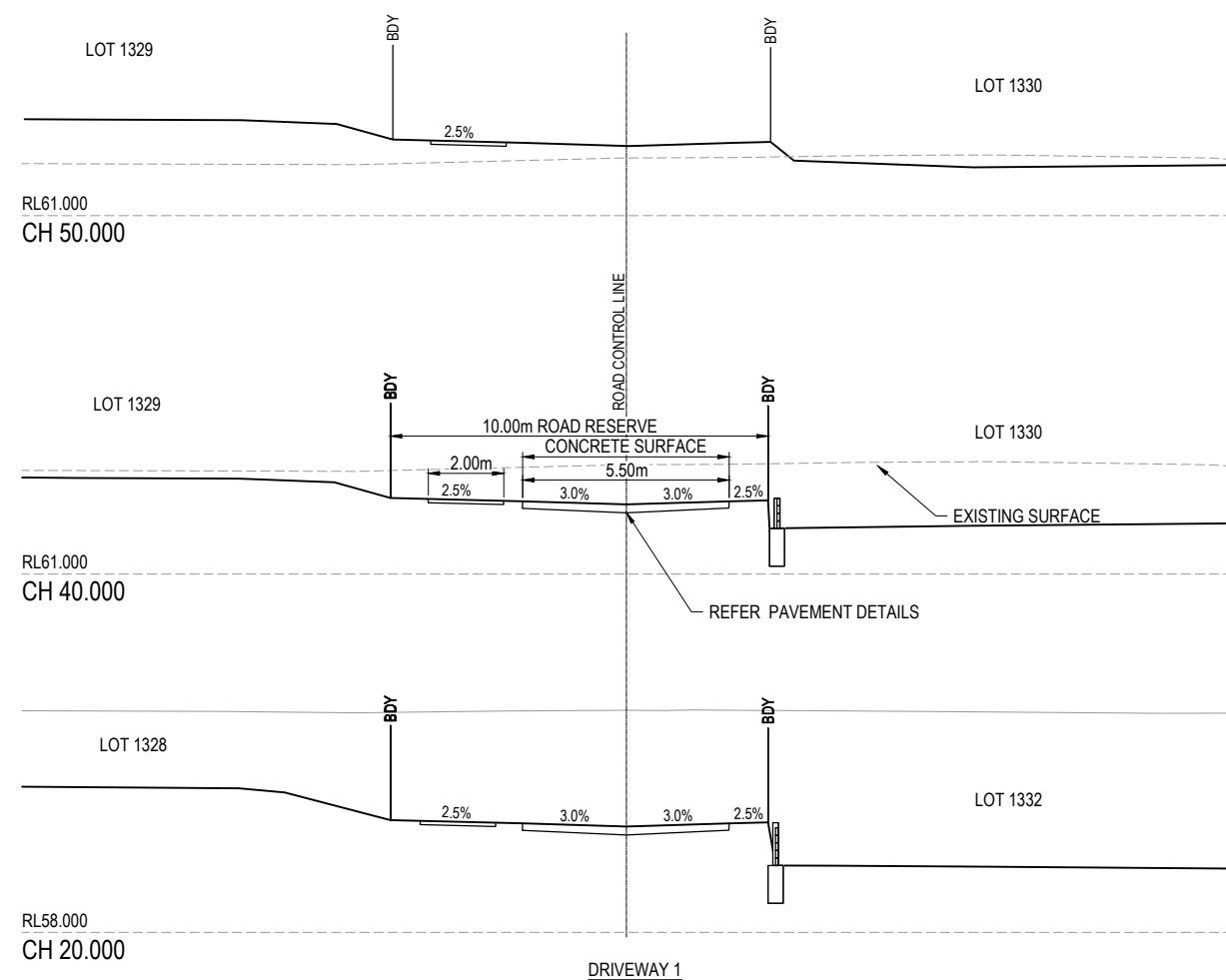
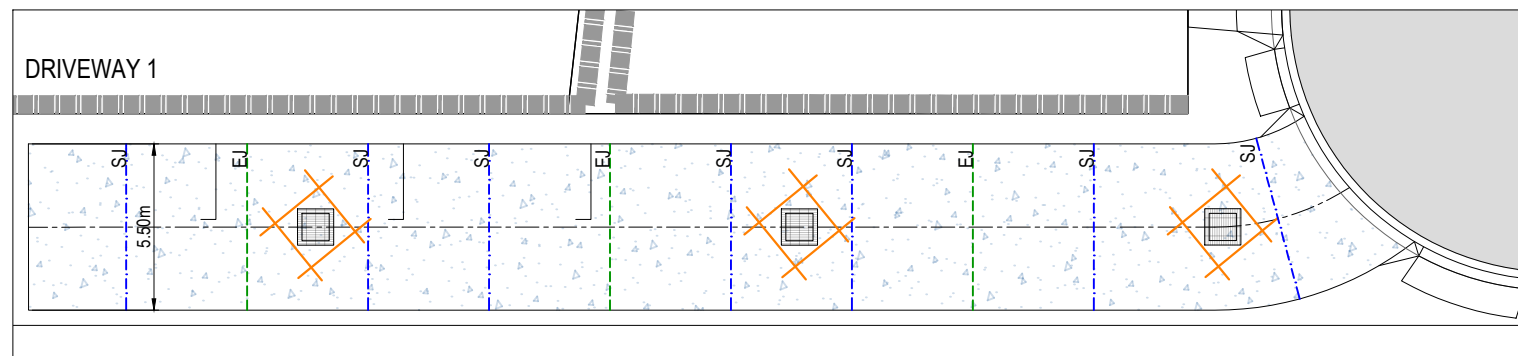
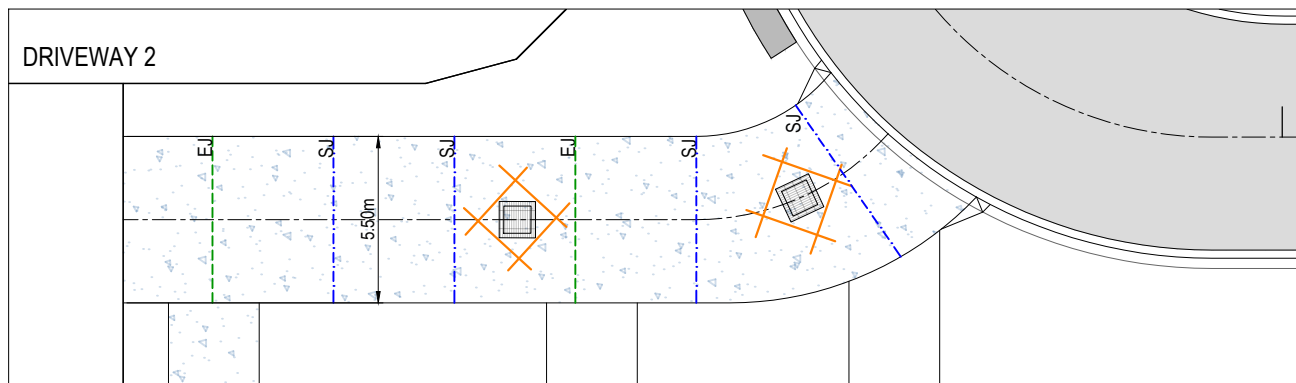
DRAWING TITLE
ROAD 11 LONGITUDINAL SECTION & CROSS SECTIONS

PROJECT No. **21-0249**
DRAWING No. **114**
REVISION **3**

NOTE:
REFER DRAWING 20-0269-412 FOR DRIVEWAY JOINTING DETAILS AND NOTES

LEGEND

- PROPOSED ROAD CONTROL LINE
- - - INDICATIVE DRIVEWAY LOCATION
- ▲ SJ SAWN CONTRACTION JOINT
- EJ EXPANSION/CONSTRUCTION JOINT
- ◇ N12 TRIMMER BARS



DATUM RL 44.0

CUT (-) / FILL	4.268	-4.268	-4.312	-4.323	-4.108	-3.682	-3.412	-1.200	-1.049	0.011
LHS EDGE			59.597	59.830	59.830	60.279	60.553	62.780	62.914	64.620
RHS EDGE			59.597	59.830	59.830	60.279	60.553	62.780	62.914	64.620
DESIGN SURFACE	59.325	59.326	59.440	59.514	59.747	60.195	60.470	62.696	62.832	64.532
EXISTING SURFACE	63.593	63.594	63.752	63.836	63.865	63.877	63.881	63.896	63.881	64.520
CHAINAGES	0.000	0.034	4.575	7.535	12.535	17.535	20.000	40.000	41.219	56.487
HORIZONTAL CURVES	R8.250									

HORIZ SCALE: 1000
VERTICAL SCALE: 100

dw 1

DATUM RL 40.0

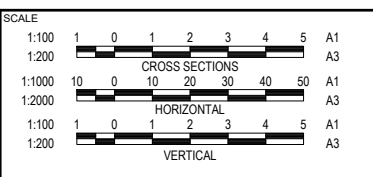
CUT (-) / FILL	-3.317	-2.533	-1.467	-1.360
LHS EDGE	55.773	55.844	55.894	55.924
RHS EDGE	55.773	55.844	55.894	55.924
DESIGN SURFACE	55.689	55.760	55.810	55.841
EXISTING SURFACE	60.318	59.006	58.293	57.271
CHAINAGES	0.000	7.163	10.000	20.000
HORIZONTAL CURVES	R8.500			

HORIZ SCALE: 1000
VERTICAL SCALE: 100

dw 2

REV	DATE	DESIGN	DRAWN	ISSUED FOR APPROVAL	REVISION DETAILS
1	08.11.2024	SM	SM		ISSUED FOR APPROVAL
2	23.01.2025	NP	NP		COUNCIL RFTS ADDRESSED
3	30.01.2025	NP	NP		ISSUED FOR CONSTRUCTION

DRAWN	STATUS
NP	ISSUED FOR CONSTRUCTION



CLIENT
**SATTERLEY PROPERTY GROUP
PTY LTD**

ASSOCIATED CONSULTANT
COLLIERS PTY LTD
(07) 3532 1300

PROJECT NAME
RIDGEVIEW STAGE 13

RAYNBIRD ROAD
NARANGBA

DRAWING TITLE		
DRIVEWAY LONG SECTIONS & CROSS SECTIONS		
PROJECT No.	DRAWING No.	REVISION
21-0249	115	3

LEGEND

- PROPOSED ROAD CONTROL LINE
- PROPOSED KERB INVERT LINE
- PROPOSED CONCRETE PATH AND PRAM RAMP
- PROPOSED NEW ROAD PAVEMENT
- PROPOSED PAVEMENT CONTOUR (0.1m INTERVAL)
- PROPOSED KERB SETOUT LINE
- PROPOSED KERB SETOUT START POINT
- PROPOSED KERB SETOUT END POINT
- PROPOSED SLEEPER RETAINING WALL
- PROPOSED STORMWATER DRAINAGE PIPE
- PROPOSED SEWERAGE MAIN
- PROPOSED WATER MAIN
- EXISTING WATER MAIN
- PROPOSED WATER CONDUIT

KERB TYPES NOTE:

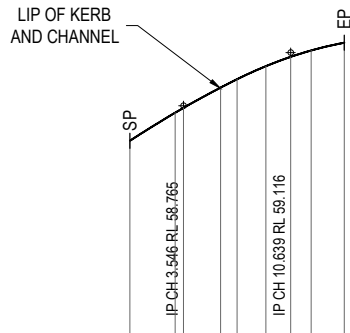
REFER TO THE SURVEY SETOUT ENGINEERING DRAWING FOR KERB TYPES AND TRANSITION LOCATIONS

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

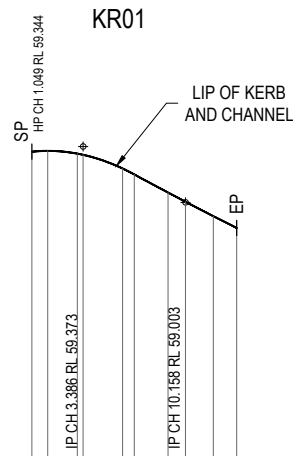
THE CONTRACTOR SHOULD CONTACT THE SERVICE PROVIDER FOR FURTHER INFORMATION AND SATISFY THEMSELVES OF ANY SPECIFIC TREATMENT OR REQUIREMENTS.



DATUM RL 57.0

LIP LEVEL	58.533
NORTHING	6992915.316
EASTING	492503.206
CHAINAGES	0.000
HORIZONTAL CURVES	R-8.270

HORIZ SCALE: 250
VERTICAL SCALE: 25



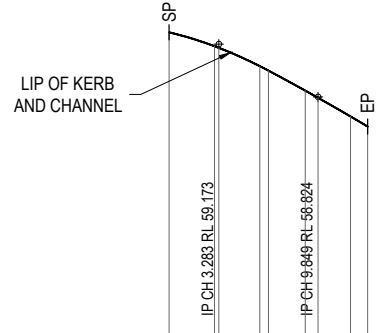
KR01

DATUM RL 57.0

LIP LEVEL	59.339
NORTHING	6992911.008
EASTING	492347.608
CHAINAGES	0.000
HORIZONTAL CURVES	R-8.270

HORIZ SCALE: 250
VERTICAL SCALE: 25

KR04

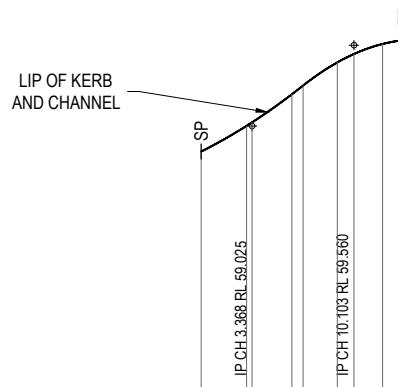


DATUM RL 57.0

LIP LEVEL	59.252
NORTHING	6992899.887
EASTING	492492.724
CHAINAGES	0.000
HORIZONTAL CURVES	R-8.270

HORIZ SCALE: 250
VERTICAL SCALE: 25

KR02

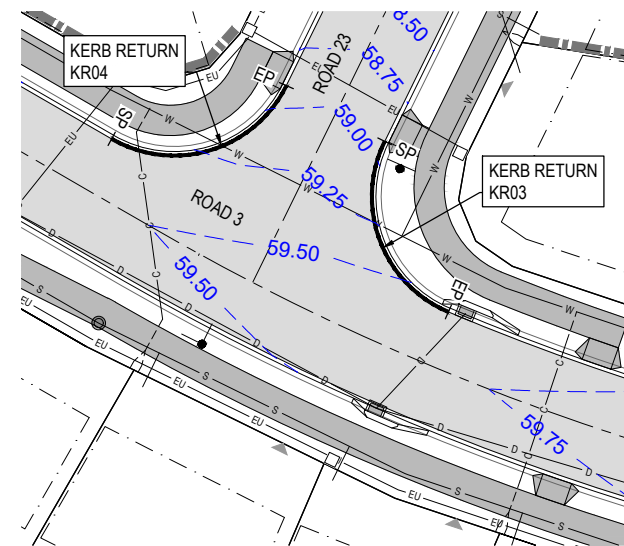
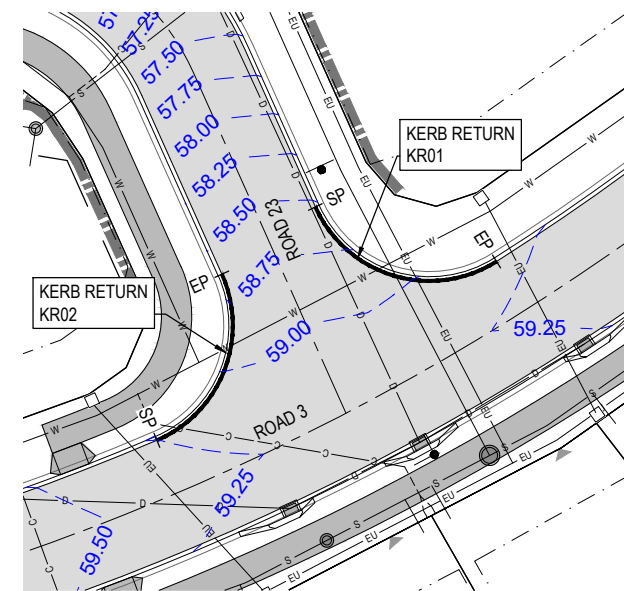


DATUM RL 57.0

LIP LEVEL	58.866
NORTHING	6992910.835
EASTING	492365.666
CHAINAGES	0.000
HORIZONTAL CURVES	R-8.270

HORIZ SCALE: 250
VERTICAL SCALE: 25

KR03



REV	DATE	DESIGN	DRAWN	REVISION DETAILS
1	08.11.2024	SM	SM	ISSUED FOR APPROVAL
2	23.01.2025	NP	NP	COUNCIL RFTS ADDRESSED
3	30.01.2025	NP	NP	ISSUED FOR CONSTRUCTION

DRAWN	STATUS
NP	ISSUED FOR CONSTRUCTION
DESIGN	APPROVED
NP	JAMES VONHOFF RPEQ 32647 DATE 09.07.25
FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD	



SCALE
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1:500 HORIZONTAL A3
1:25 0.25 0 0.25 0.5 0.75 1 1.25 A1
1:50 VERTICAL A3

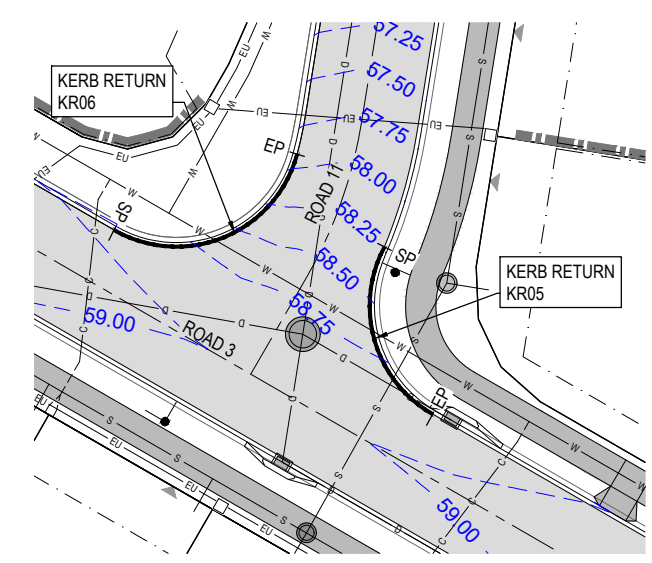
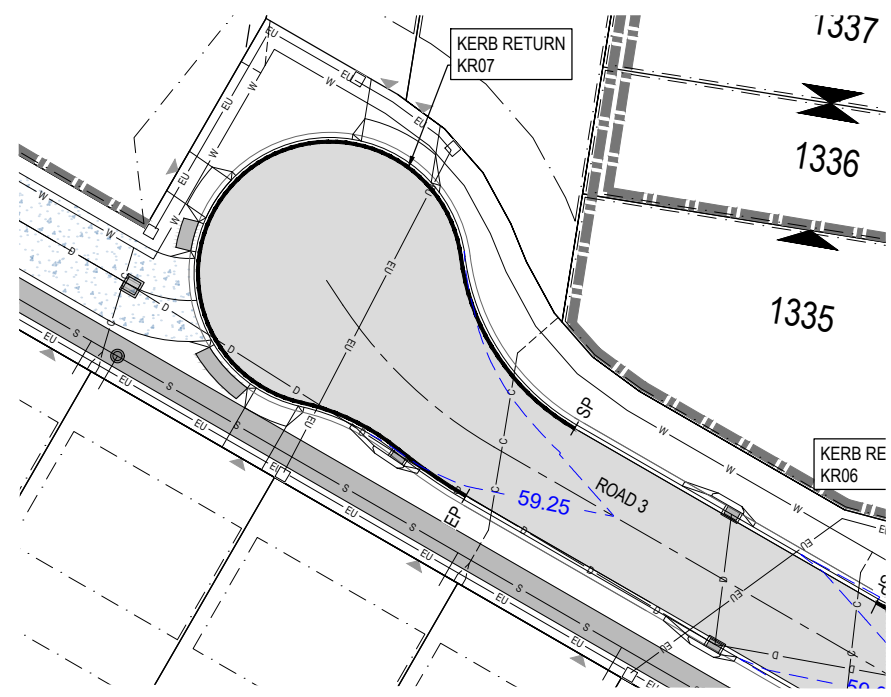
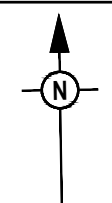
CLIENT	SATTERLEY PROPERTY GROUP PTY LTD
ASSOCIATED CONSULTANT	COLLIERS PTY LTD (07) 3532 1300

PROJECT NAME	RIDGEVIEW STAGE 13
RAYNBIRD ROAD NARANGBA	

DRAWING TITLE	INTERSECTION DETAILS LAYOUT PLAN SHEET 1 OF 2
PROJECT No.	21-0249
DRAWING No.	117
REVISION	3

LEGEND

- PROPOSED ROAD CONTROL LINE
- PROPOSED KERB INVERT LINE
- PROPOSED CONCRETE PATH AND PRAM RAMP
- PROPOSED NEW ROAD PAVEMENT
- PROPOSED PAVEMENT CONTOUR (0.1m INTERVAL)
- PROPOSED KERB SETOUT LINE
- PROPOSED KERB SETOUT START POINT
- PROPOSED KERB SETOUT END POINT
- PROPOSED SLEEPER RETAINING WALL
- PROPOSED STORMWATER DRAINAGE PIPE
- PROPOSED SEWERAGE MAIN
- PROPOSED WATER MAIN
- EXISTING WATER MAIN
- PROPOSED WATER CONDUIT



KERB TYPES NOTE:

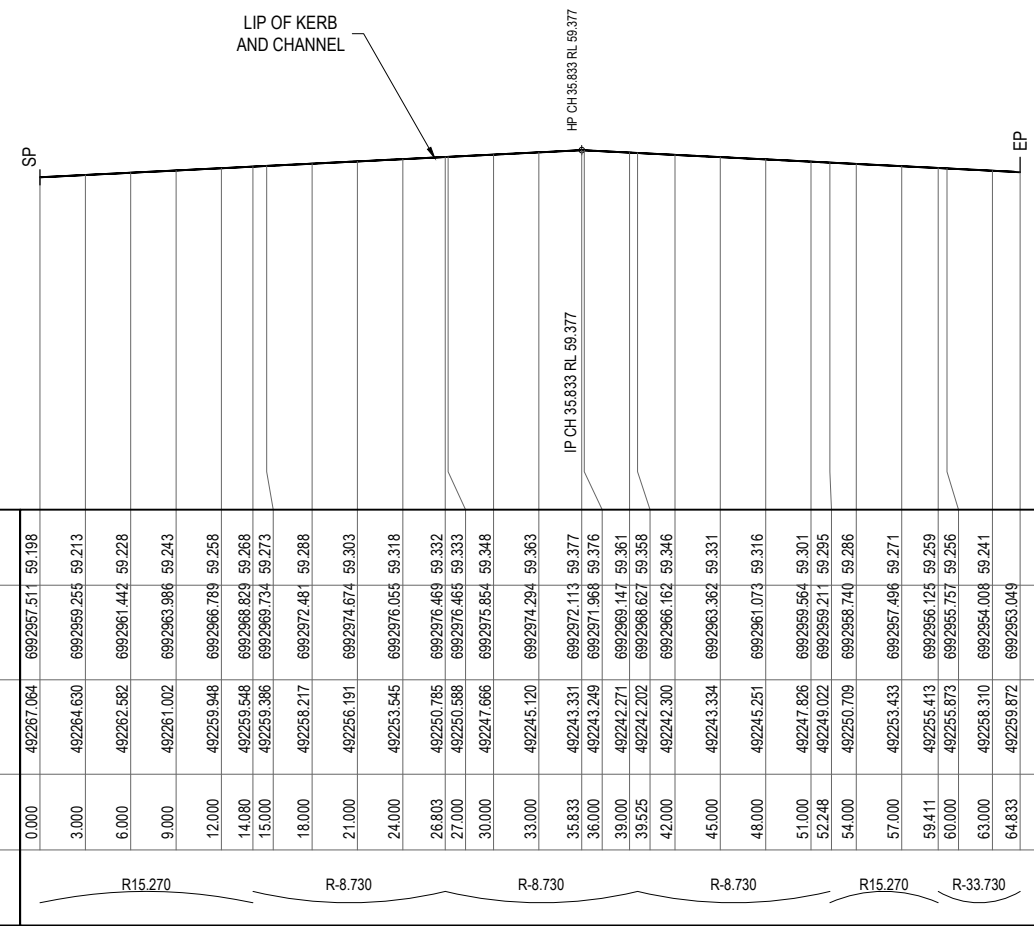
REFER TO THE SURVEY SETOUT ENGINEERING DRAWING FOR KERB TYPES AND TRANSITION LOCATIONS

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.

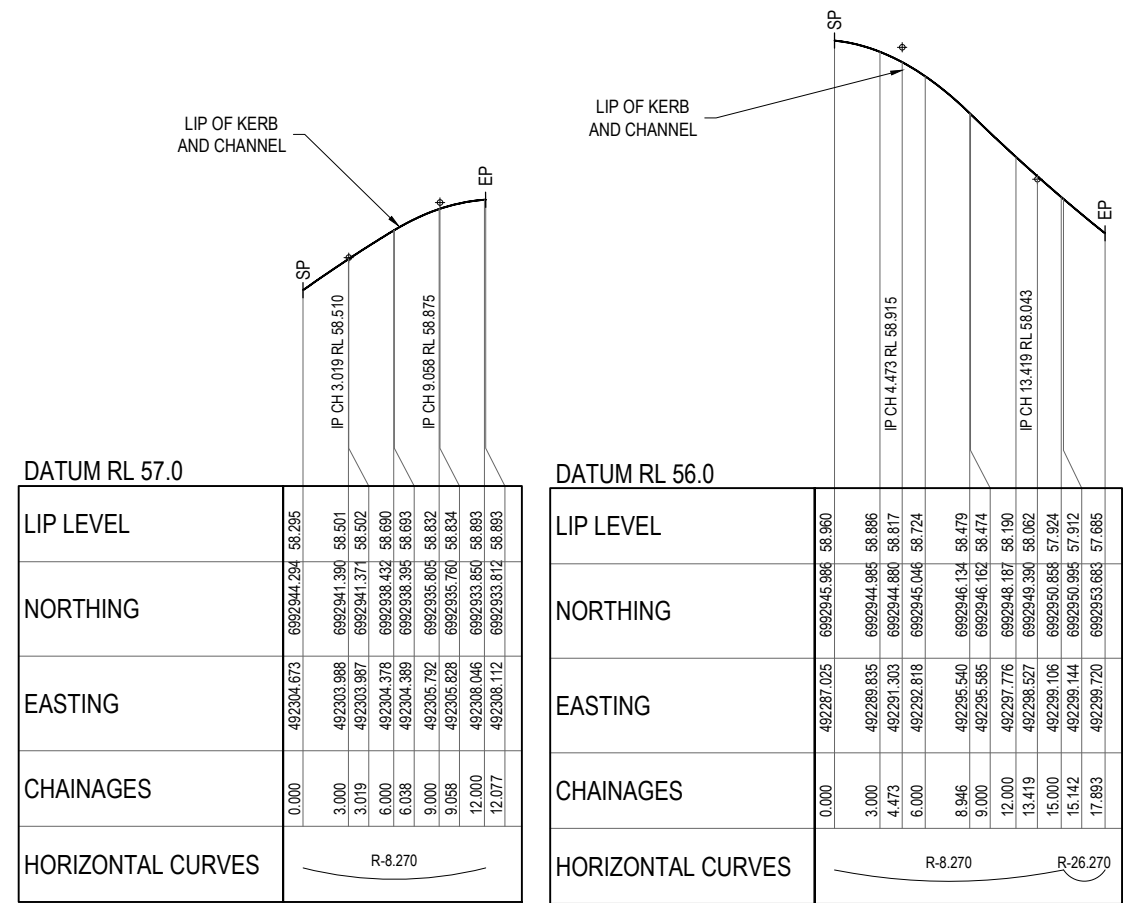


DATUM RL 57.0

CHAINAGES	LIP LEVEL	NORTHING	EASTING
0.000	492267.064	6992957.511	59.198
3.000	492264.630	6992955.255	59.213
6.000	492262.582	6992961.442	59.228
9.000	492261.002	6992963.986	59.243
12.000	492259.948	6992966.789	59.258
14.080	492259.548	6992968.829	59.268
15.000	492259.386	6992969.734	59.273
18.000	492258.217	6992972.481	59.288
21.000	492256.191	6992974.674	59.303
24.000	492253.545	6992976.055	59.318
26.803	492250.785	6992976.469	59.332
27.000	492250.588	6992976.465	59.333
30.000	492247.666	6992975.854	59.348
33.000	492245.120	6992974.294	59.363
35.833	492243.331	6992972.113	59.377
36.000	492243.249	6992971.968	59.376
39.000	492242.271	6992969.147	59.361
39.525	492242.202	6992968.627	59.358
42.000	492242.300	6992966.162	59.346
45.000	492243.334	6992963.362	59.331
48.000	492245.251	6992961.073	59.316
51.000	492247.826	6992959.564	59.301
52.248	492249.022	6992959.211	59.295
54.000	492250.709	6992958.740	59.286
57.000	492253.433	6992957.496	59.271
59.411	492255.413	6992956.125	59.259
60.000	492255.873	6992955.757	59.256
63.000	492258.310	6992954.008	59.241
64.833	492259.872	6992953.049	59.231

HORIZ SCALE: 250
VERTICAL SCALE: 25

KR07



DATUM RL 57.0

CHAINAGES	LIP LEVEL	NORTHING	EASTING
0.000	492304.673	6992944.294	56.295
3.000	492303.988	6992941.390	56.501
3.019	492303.987	6992941.371	56.502
6.000	492304.378	6992938.432	56.690
6.038	492304.369	6992938.395	56.693
9.000	492305.792	6992935.805	56.832
9.058	492305.828	6992935.760	56.834
12.000	492308.046	6992933.850	56.893
12.077	492308.112	6992933.812	56.893

HORIZ SCALE: 250
VERTICAL SCALE: 25

KR05

DATUM RL 56.0

CHAINAGES	LIP LEVEL	NORTHING	EASTING
0.000	492287.025	6992945.986	58.960
3.000	492289.835	6992944.985	58.886
4.473	492291.303	6992944.880	58.817
6.000	492292.818	6992945.046	58.724
8.946	492295.540	6992946.134	58.479
9.000	492295.595	6992946.162	58.474
12.000	492297.776	6992948.187	58.190
13.419	492298.527	6992949.390	58.062
15.000	492299.106	6992950.858	57.924
15.142	492299.144	6992950.995	57.912
17.893	492299.720	6992953.603	57.685

HORIZ SCALE: 250
VERTICAL SCALE: 25

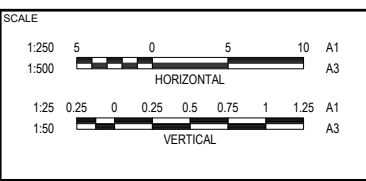
KR06

REV	DATE	DESIGN	DRAWN	REVISION DETAILS
1	08.11.2024	SM	SM	ISSUED FOR APPROVAL
2	23.01.2025	NP	NP	COUNCIL RFTS ADDRESSED
3	30.01.2025	NP	NP	ISSUED FOR CONSTRUCTION

DRAWN	STATUS
NP	ISSUED FOR CONSTRUCTION

DESIGN APPROVED
JAMES VONHOFF
Vonhoff

RPEQ 32647 DATE 09.07.25



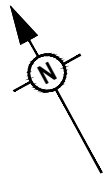
CLIENT
SATTERLEY PROPERTY GROUP PTY LTD

ASSOCIATED CONSULTANT
COLLIERS PTY LTD
(07) 3532 1300

PROJECT NAME
RIDGEVIEW STAGE 13

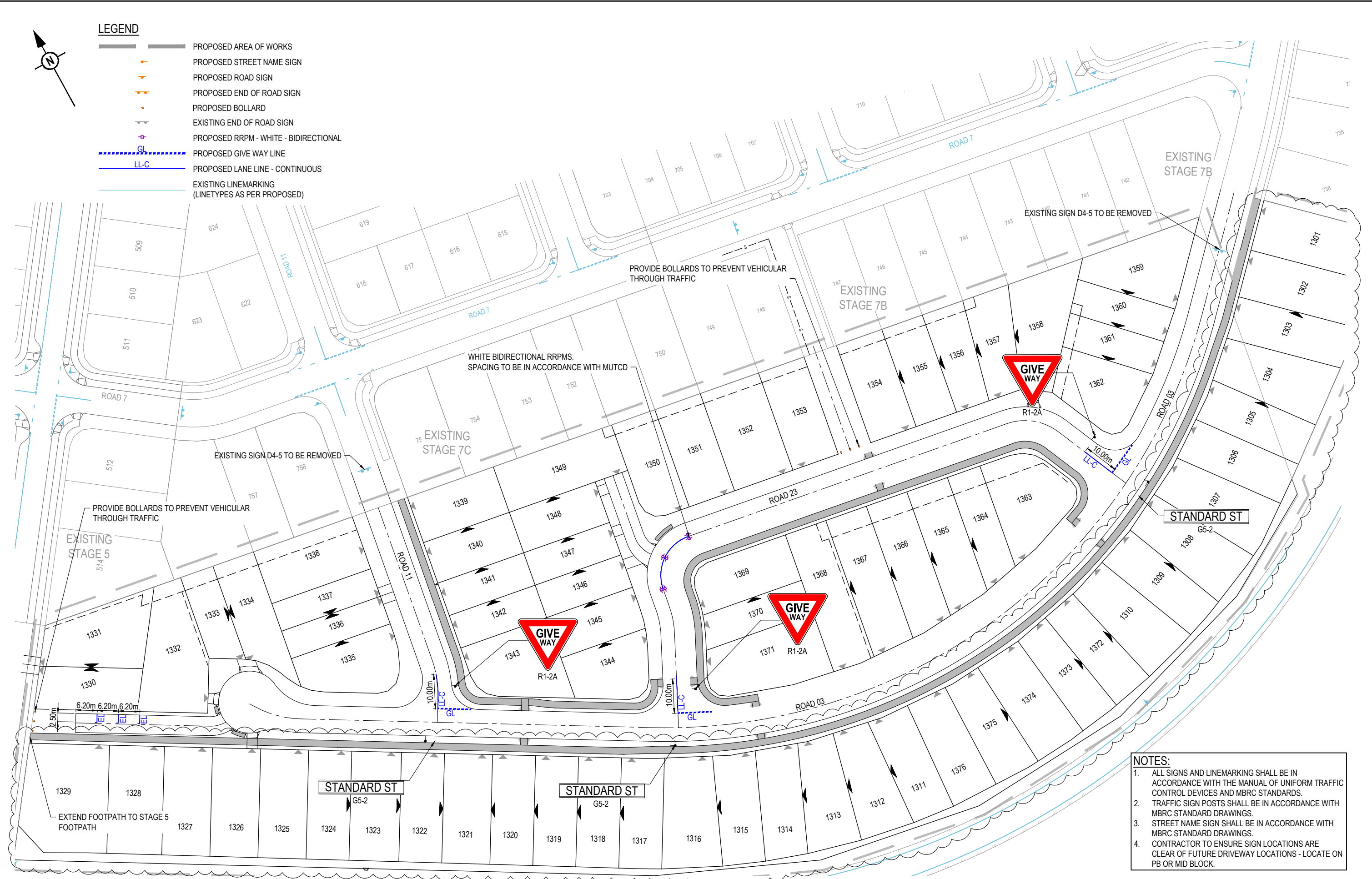
RAYNBIRD ROAD NARANGBA

DRAWING TITLE		
INTERSECTION DETAILS LAYOUT PLAN SHEET 2 OF 2		
PROJECT No.	DRAWING No.	REVISION
21-0249	118	3



LEGEND

- PROPOSED AREA OF WORKS
- PROPOSED STREET NAME SIGN
- PROPOSED ROAD SIGN
- PROPOSED END OF ROAD SIGN
- PROPOSED BOLLARD
- EXISTING END OF ROAD SIGN
- PROPOSED RRPM - WHITE - BIDIRECTIONAL
- PROPOSED GIVE WAY LINE
- 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 MBRC STANDARDS.
 2. TRAFFIC SIGN POSTS SHALL BE IN ACCORDANCE WITH MBRC STANDARD DRAWINGS.
 3. STREET NAME SIGN SHALL BE IN ACCORDANCE WITH MBRC 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
1	08.11.2024	SM	SM	ISSUED FOR APPROVAL
2	23.01.2025	NP	NP	COUNCIL RPT'S ADDRESSED
3	30.01.2025	NP	NP	ISSUED FOR CONSTRUCTION
4	29.07.2025	AF	AF	REMOVED EW PADS

DRAWN	STATUS
AF	ISSUED FOR CONSTRUCTION

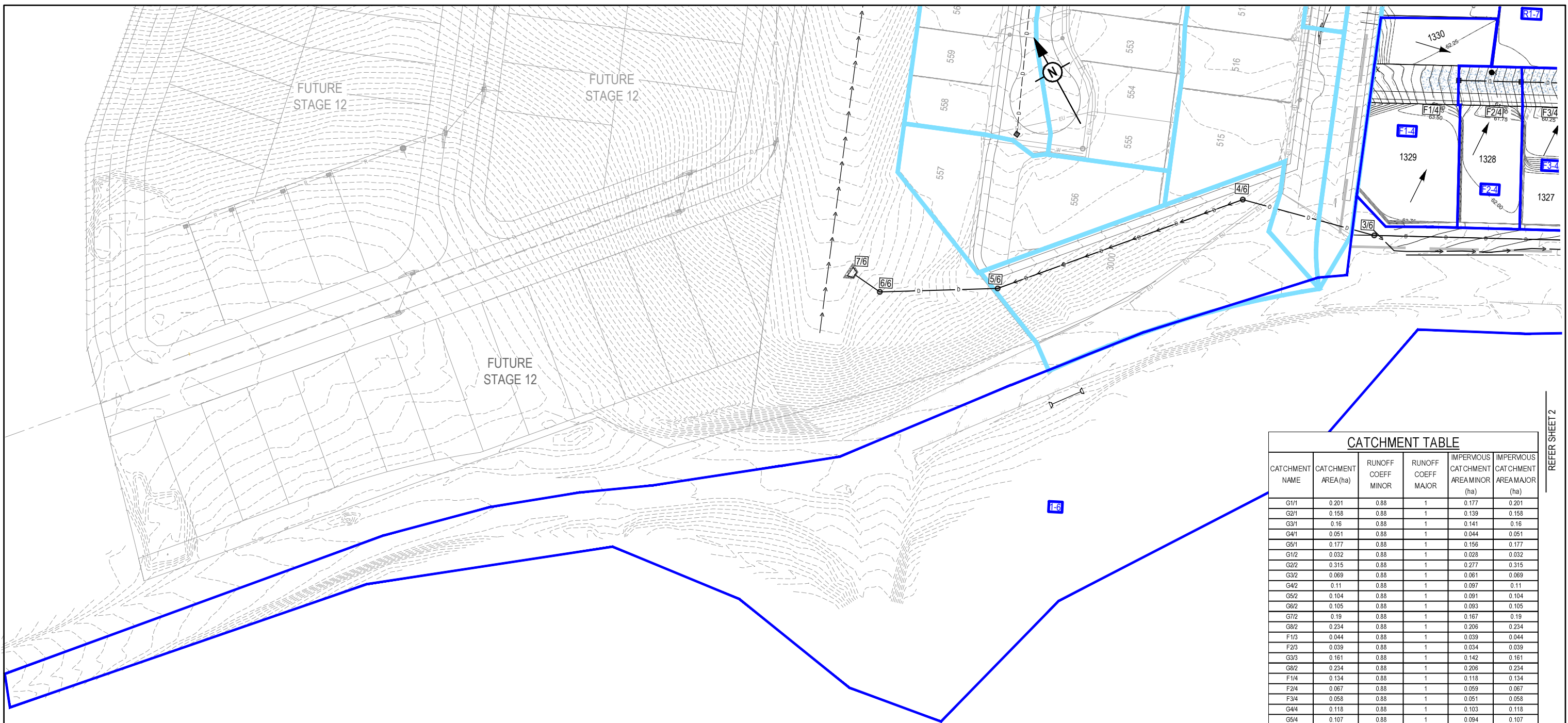


DESIGN	APPROVED	DATE
AF	JAMES VONHOFF <i>Vonhoff</i>	RPEQ 32647 09.07.25

CLIENT
SATTERLEY PROPERTY GROUP PTY LTD

PROJECT NAME
RIDGEVIEW STAGE 13

DRAWING TITLE
SIGNS AND LINEMARKING LAYOUT PLAN



LEGEND

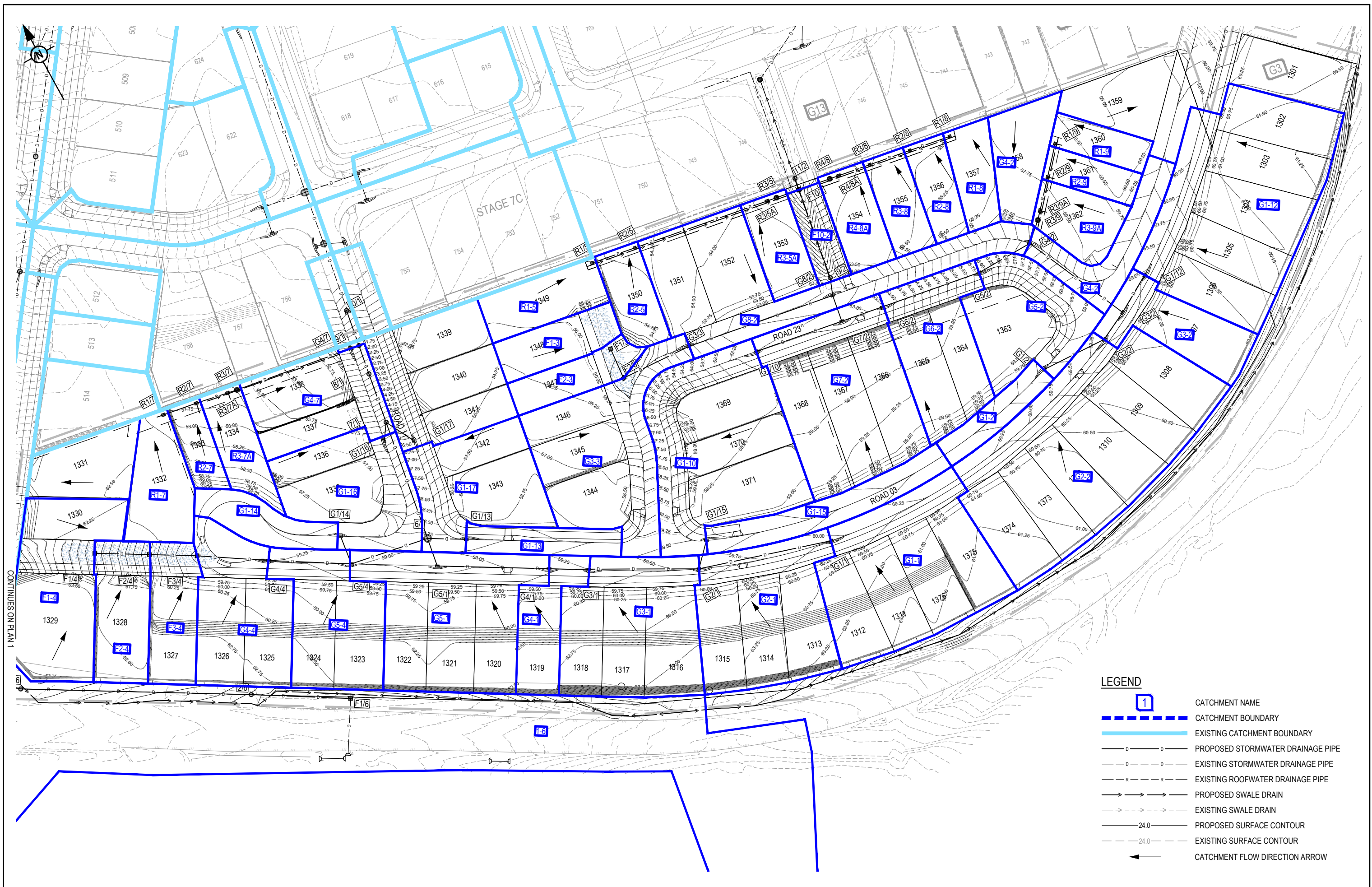
	1	CATCHMENT NAME
		CATCHMENT BOUNDARY
		EXISTING CATCHMENT BOUNDARY
		PROPOSED STORMWATER DRAINAGE PIPE
		EXISTING STORMWATER DRAINAGE PIPE
		EXISTING ROOFWATER DRAINAGE PIPE
		PROPOSED SWALE DRAIN
		EXISTING SWALE DRAIN
		PROPOSED SURFACE CONTOUR
		EXISTING SURFACE CONTOUR
		CATCHMENT FLOW DIRECTION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

CATCHMENT TABLE

CATCHMENT NAME	CATCHMENT AREA (ha)	RUNOFF COEFF MINOR	RUNOFF COEFF MAJOR	IMPERVIOUS CATCHMENT AREA MINOR (ha)	IMPERVIOUS CATCHMENT AREA MAJOR (ha)
G1/1	0.201	0.88	1	0.177	0.201
G2/1	0.158	0.88	1	0.139	0.158
G3/1	0.16	0.88	1	0.141	0.16
G4/1	0.051	0.88	1	0.044	0.051
G5/1	0.177	0.88	1	0.156	0.177
G1/2	0.032	0.88	1	0.028	0.032
G2/2	0.315	0.88	1	0.277	0.315
G3/2	0.069	0.88	1	0.061	0.069
G4/2	0.11	0.88	1	0.097	0.11
G5/2	0.104	0.88	1	0.091	0.104
G6/2	0.105	0.88	1	0.093	0.105
G7/2	0.19	0.88	1	0.167	0.19
G8/2	0.234	0.88	1	0.206	0.234
F1/3	0.044	0.88	1	0.039	0.044
F2/3	0.039	0.88	1	0.034	0.039
G3/3	0.161	0.88	1	0.142	0.161
G8/2	0.234	0.88	1	0.206	0.234
F1/4	0.134	0.88	1	0.118	0.134
F2/4	0.067	0.88	1	0.059	0.067
F3/4	0.058	0.88	1	0.051	0.058
G4/4	0.118	0.88	1	0.103	0.118
G5/4	0.107	0.88	1	0.094	0.107
G1/10	0.206	0.88	1	0.181	0.206
G7/2	0.19	0.88	1	0.167	0.19
G1/12	0.163	0.88	1	0.143	0.163
G3/2	0.069	0.88	1	0.061	0.069
G1/13	0.037	0.88	1	0.032	0.037
G1/14	0.043	0.88	1	0.038	0.043
G5/4	0.107	0.88	1	0.094	0.107
G1/15	0.062	0.88	1	0.054	0.062
G2/1	0.158	0.88	1	0.139	0.158
G1/16	0.114	0.88	1	0.1	0.114
G1/17	0.112	0.88	1	0.098	0.112
F1/6	1.111	0.71	0.85	0.789	0.944
R1/5	0.051	0.88	1	0.045	0.051
R2/5	0.039	0.88	1	0.034	0.039
R3/5A	0.042	0.88	1	0.037	0.042
R1/7	0.061	0.88	1	0.053	0.061
R2/7	0.027	0.88	1	0.024	0.027
R3/7A	0.043	0.88	1	0.038	0.043
G4/7	0.098	0.88	1	0.086	0.098
R1/8	0.036	0.88	1	0.032	0.036
R2/8	0.034	0.88	1	0.03	0.034
R3/8	0.037	0.88	1	0.033	0.037
R4/8A	0.042	0.88	1	0.037	0.042
R1/9	0.044	0.88	1	0.039	0.044
R2/9	0.028	0.88	1	0.025	0.028
R3/9A	0.045	0.88	1	0.039	0.045

REFER SHEET 2

<table border="1"> <tr><th>REV</th><th>DATE</th><th>DESIGN</th><th>DRAWN</th><th>REVISION DETAILS</th></tr> <tr><td>1</td><td>08.11.2024</td><td>SM</td><td>SM</td><td>ISSUED FOR APPROVAL</td></tr> <tr><td>2</td><td>23.01.2025</td><td>NP</td><td>NP</td><td>COUNCIL RFTS ADDRESSED</td></tr> <tr><td>3</td><td>30.01.2025</td><td>NP</td><td>NP</td><td>ISSUED FOR CONSTRUCTION</td></tr> </table>	REV	DATE	DESIGN	DRAWN	REVISION DETAILS	1	08.11.2024	SM	SM	ISSUED FOR APPROVAL	2	23.01.2025	NP	NP	COUNCIL RFTS ADDRESSED	3	30.01.2025	NP	NP	ISSUED FOR CONSTRUCTION	<table border="1"> <tr><th>DRAWN</th><th>STATUS</th></tr> <tr><td>NP</td><td>ISSUED FOR CONSTRUCTION</td></tr> </table>	DRAWN	STATUS	NP	ISSUED FOR CONSTRUCTION		<p>SCALE</p> <p>1:500 10 5 0 10 20 A1</p> <p>1:1000</p>	<p>CLIENT</p> <p>SATTERLEY PROPERTY GROUP PTY LTD</p>	<p>PROJECT NAME</p> <p>RIDGEVIEW STAGE 13</p>	<p>DRAWING TITLE</p> <p>STORMWATER DRAINAGE CATCHMENT LAYOUT PLAN 1 OF 2</p>
REV	DATE	DESIGN	DRAWN	REVISION DETAILS																										
1	08.11.2024	SM	SM	ISSUED FOR APPROVAL																										
2	23.01.2025	NP	NP	COUNCIL RFTS ADDRESSED																										
3	30.01.2025	NP	NP	ISSUED FOR CONSTRUCTION																										
DRAWN	STATUS																													
NP	ISSUED FOR CONSTRUCTION																													
<table border="1"> <tr><th>DESIGN</th><th>APPROVED</th><th>DATE</th></tr> <tr><td>NP</td><td>JAMES VONHOFF</td><td>RPEQ 32647 09.07.25</td></tr> </table> <p>FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD</p>	DESIGN	APPROVED	DATE	NP	JAMES VONHOFF	RPEQ 32647 09.07.25	<p>ASSOCIATED CONSULTANT</p> <p>COLLIERS PTY LTD (07) 3532 1300</p>	<p>RAYNBIRD ROAD NARANGBA</p>	<table border="1"> <tr><th>PROJECT No.</th><th>DRAWING No.</th><th>REVISION</th></tr> <tr><td>21-0249</td><td>120</td><td>3</td></tr> </table>	PROJECT No.	DRAWING No.	REVISION	21-0249	120	3															
DESIGN	APPROVED	DATE																												
NP	JAMES VONHOFF	RPEQ 32647 09.07.25																												
PROJECT No.	DRAWING No.	REVISION																												
21-0249	120	3																												

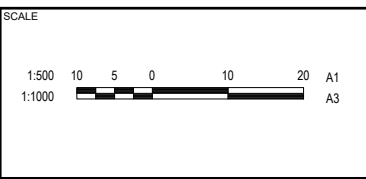


CONTINUES ON PLAN 1

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

REV	DATE	DESIGN	DRAWN	REVISION DETAILS
1	08.11.2024	SM	SM	ISSUED FOR APPROVAL
2	23.01.2025	NP	NP	COUNCIL RFTS ADDRESSED
3	30.01.2025	NP	NP	ISSUED FOR CONSTRUCTION

DRAWN	STATUS
NP	ISSUED FOR CONSTRUCTION
DESIGN	APPROVED
NP	JAMES VONHOFF <i>Vonhoff</i>
	RPEQ 32647
	DATE 09.07.25



CLIENT
**SATTERLEY PROPERTY GROUP
PTY LTD**

ASSOCIATED CONSULTANT
COLLIERS PTY LTD
(07) 3532 1300

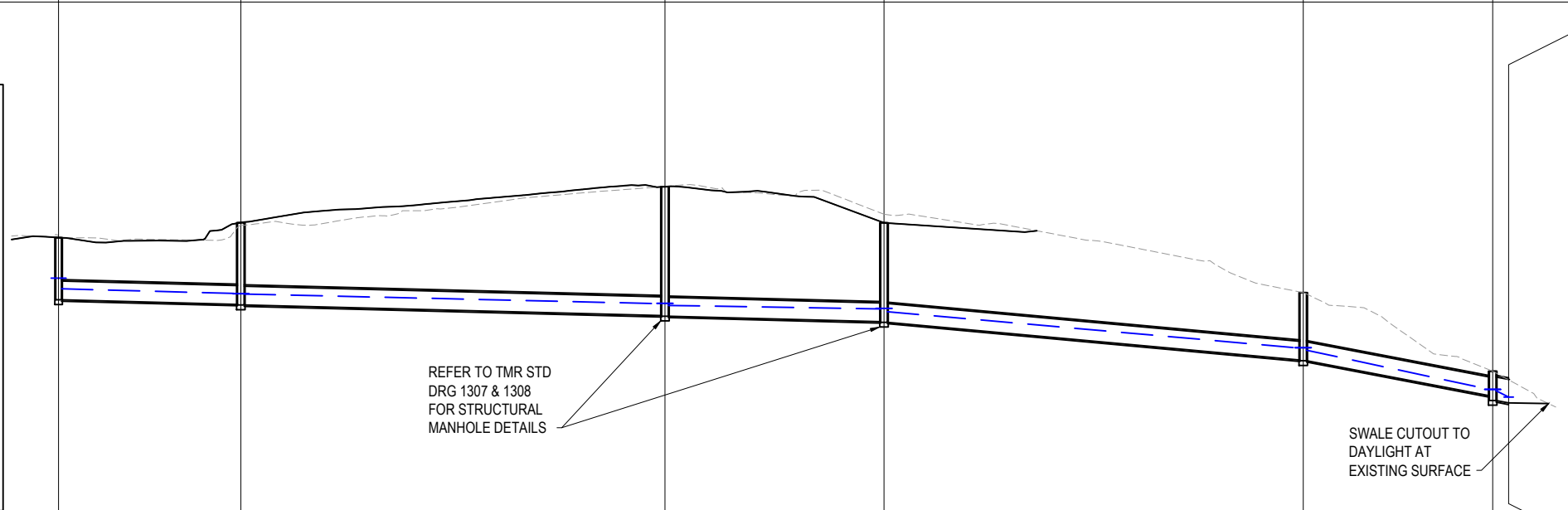
PROJECT NAME
RIDGEVIEW STAGE 13

RAYNBIRD ROAD
NARANGBA

DRAWING TITLE		
STORMWATER DRAINAGE CATCHMENT LAYOUT PLAN 2 OF 2		
PROJECT No.	DRAWING No.	REVISION
21-0249	121	3

STRUCTURE NAME	F1/6	2/6	3/6	4/6	5/6	6/6	7/6
STRUCTURE DESCRIPTION	STD FIELD INLET TYPE 2 900x600	STD MANHOLE 1050mm DIA	STRUCTURAL MANHOLE 1050mm DIA	STRUCTURAL MANHOLE 1050mm DIA	STD MANHOLE 1050mm DIA	STD MANHOLE 1050mm DIA	HEADWALL

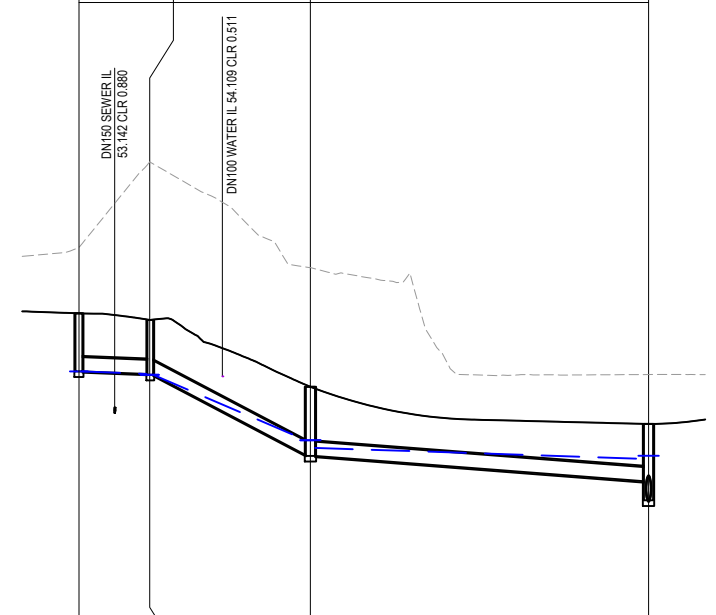
STORMWATER STRUCTURE NOTE:
 STANDARD ROUND MANHOLES LESS THAN 3.0m DEEP:
 CONSTRUCT IN ACCORDANCE WITH THE LOCAL AUTHORITY STANDARDS.
 STANDARD ROUND MANHOLES 3.0m > 5.3m DEEP:
 CONSTRUCT IN ACCORDANCE WITH TMR STD DRAWINGS 1307 AND 1308.
 STANDARD ROUND MANHOLES GREATER THAN 5.3m DEEP:
 SHALL BE STRUCTURALLY 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)	600	600	600	600	600	750
PIPE CLASS	3	3	3	3	3	3
PIPE GRADE (%)	0.50%	0.50%	0.50%	1.80%	3.70%	3.07%
PIPE SLOPE (1 in X)	200.00	200.00	200.00	55.56	27.03	32.58
FULL PIPE VELOCITY (m/s)	1.00	0.99	0.97	0.95	0.94	0.60
PART FULL VELOCITY (m/s)	1.63	1.63	1.62	2.61	3.37	3.09
DATUM RL	51.0					
H.G.L IN PIPE & W.S.E IN STRUCTURE	64.194 63.854	63.702 63.700 63.687	63.378 63.389 63.323	63.212 63.228 63.122	61.962 61.976 61.896	60.644 60.646 60.604 60.400 60.400
PIPE FLOW (Cumecs)	0.282	0.279	0.273	0.270	0.267	0.266
PIPE CAPACITY AT GRADE (Cumecs)	0.434	0.434	0.434	0.824	1.182	1.959
DEPTH TO INVERT	1.984	2.606 2.626	4.113 4.133	3.153 3.173	2.153 2.173	0.785 0.935 0.750 0.000
INVERT LEVEL OF DRAIN	63.502	63.357 63.337	62.998 62.978	62.804 62.784	61.580 61.560	60.441 60.291 60.213 60.963
DESIGN SURFACE LEVEL	65.486	65.963	67.111	65.957	63.733	61.226
SETOUT COORDINATES	E 492257.254 N 6892908.691	E 492232.295 N 6892923.592	E 492173.698 N 6892957.436	E 492148.496 N 6892981.640	E 492082.383 N 6892991.713	E 492055.423 N 6893005.394 E 492054.275 N 6893007.667
RUNNING CHAINAGE	0.000	29.069	67.668	96.737	131.680	198.556
						30.233
						228.789
						231.335

LINE E1

F1/3	F2/3	G3/3	G8/2
900x600 GULLY WITH INVERTED GRATED LID	900x600 GULLY WITH INVERTED GRATED LID	STD TYPE A GULLY LIL: 3.6m LINTEL; TYPE M	STD TYPE A GULLY LIL: 2.4m LINTEL; TYPE S



PIPE SIZE (mm)	375	375	375
PIPE CLASS	3	3	3
PIPE GRADE (%)	0.75%	10.00%	1.50%
PIPE SLOPE (1 in X)	133.33	10.00	66.67
FULL PIPE VELOCITY (m/s)	0.00	0.00	0.76
PART FULL VELOCITY (m/s)	0.00	0.00	1.82
DATUM RL	42.0		
H.G.L IN PIPE & W.S.E IN STRUCTURE	54.242 54.242	54.172 54.152 54.152	52.419 52.419 52.218 51.928 52.010
PIPE FLOW (Cumecs)	0.000	0.000	0.084
PIPE CAPACITY AT GRADE (Cumecs)	0.152	0.555	0.215
DEPTH TO INVERT	1.533	1.429 1.449	1.807 1.827 1.517 2.021
INVERT LEVEL OF DRAIN	54.242	54.172 54.152	52.027 52.007 51.336 50.831
DESIGN SURFACE LEVEL	55.776	55.602	53.833
SETOUT COORDINATES	E 492373.214 N 6892962.157	E 492372.446 N 6892952.825	E 492393.679 N 6892951.828 E 492437.847 N 6892944.798
RUNNING CHAINAGE	0.000	9.363	21.257
			30.620
			44.731

LINE 3

REV	DATE	DESIGN	DRAWN	REVISION DETAILS
1	08.11.2024	SM	SM	ISSUED FOR APPROVAL
2	23.01.2025	NP	NP	COUNCIL RFTS ADDRESSED
3	30.01.2025	NP	NP	ISSUED FOR CONSTRUCTION

DRAWN	STATUS
NP	ISSUED FOR CONSTRUCTION
DESIGN	APPROVED
NP	JAMES VONHOFF RPEQ 32647 DATE 09.07.25
FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD	



SCALE
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1:2000 HORIZONTAL A3
1:100 2 1 0 2 4 A1
1:200 VERTICAL A3

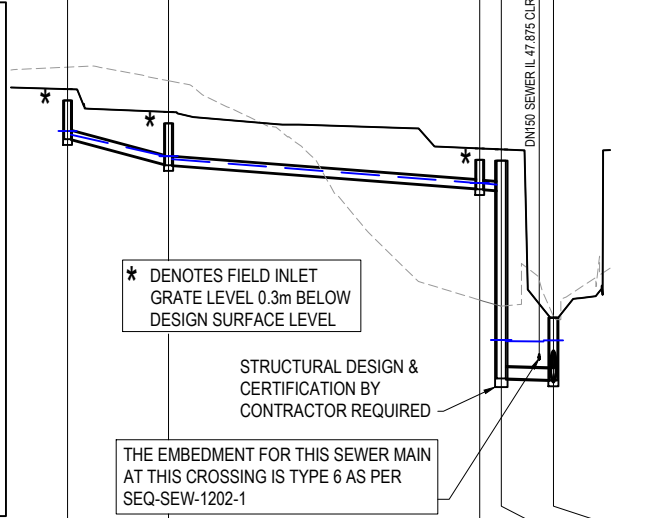
CLIENT	SATTERLEY PROPERTY GROUP PTY LTD
ASSOCIATED CONSULTANT	COLLIERS PTY LTD (07) 3532 1300

PROJECT NAME	RIDGEVIEW STAGE 13
	RAYNBIRD ROAD NARANGBA

DRAWING TITLE	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 1 OF 5		
PROJECT No.	21-0249	DRAWING No.	122
		REVISION	3

STRUCTURE NAME	R1/5	R2/5	R3/5A	R3/5	F10/2
STRUCTURE DESCRIPTION	STD FIELD INLET TYPE 2 900x600	STD FIELD INLET TYPE 2 900x600	STD FIELD INLET TYPE 2 900x600	CUSTOM MANHOLE 1200mm DIA WITH BOLT DOWN LID	STD MANHOLE 1050mm DIA

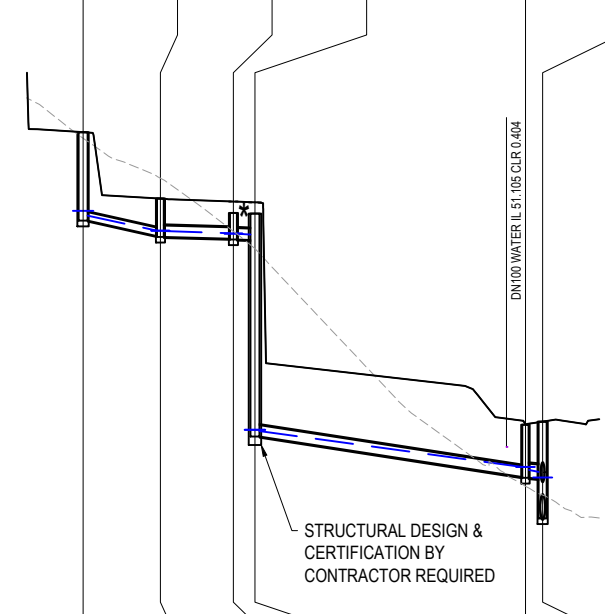
STORMWATER STRUCTURE NOTE:
 STANDARD ROUND MANHOLES LESS THAN 3.0m DEEP:
 CONSTRUCT IN ACCORDANCE WITH THE LOCAL AUTHORITY STANDARDS.
 STANDARD ROUND MANHOLES 3.0m > 5.3m DEEP:
 CONSTRUCT IN ACCORDANCE WITH TMR STD DRAWINGS 1307 AND 1308.
 STANDARD ROUND MANHOLES GREATER THAN 5.3m DEEP:
 SHALL BE STRUCTURALLY 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)	225	225	225	300
PIPE CLASS	3	3	3	3
PIPE GRADE (%)	5.00%	1.50%	1.00%	0.50%
PIPE SLOPE (1 in X)	20.00	66.67	100.00	200.00
FULL PIPE VELOCITY (m/s)	0.52	0.91	0.89	0.50
PART FULL VELOCITY (m/s)	1.99	1.48	1.25	0.98
DATUM RL	38.0			
H.G.L IN PIPE & W.S.E IN STRUCTURE	53.920 53.924	53.256 53.256	52.546 52.546	52.537 52.502 48.391 48.363
PIPE FLOW (Cumecs)	0.021	0.036	0.035	0.035
PIPE CAPACITY AT GRADE (Cumecs)	0.100	0.055	0.045	0.068
DEPTH TO INVERT	1.325	1.387	1.407	
INVERT LEVEL OF DRAIN	53.705	53.037	53.017	
DESIGN SURFACE LEVEL	55.030	54.424	53.436	48.985
SETOUT COORDINATES	E 492380.438 N 6992986.861	E 492393.629 N 6992984.750	E 492437.088 N 6992977.792	E 492443.898 N 6992976.703
RUNNING CHAINAGE	0.000	13.358	41.162	64.268

LINE R1

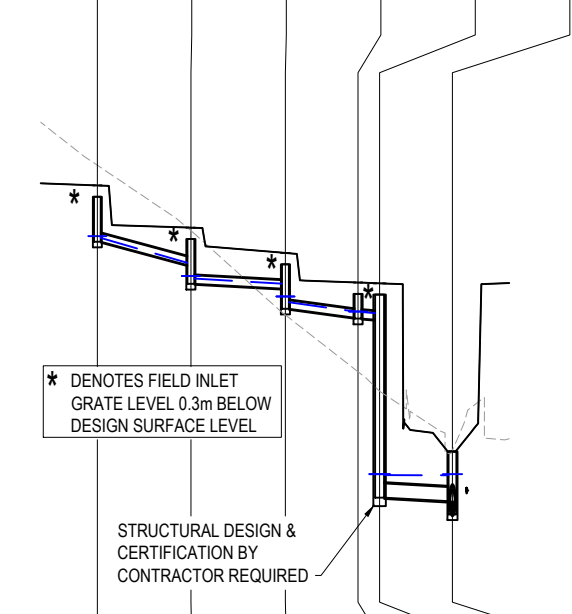
STRUCTURE NAME	R1/7	R2/7	R3/7A	R3/7	G4/7	9/1
STRUCTURE DESCRIPTION	STD FIELD INLET TYPE 2 900x600 ON A 1200Ø MH	STD FIELD INLET TYPE 2 900x600	STD FIELD INLET TYPE 2 900x600	CUSTOM MANHOLE 1200mm DIA WITH BOLT DOWN LID	STD TYPE A GULLY LIL: 2.4m LINTEL, TYPE S	STD MANHOLE 1050mm DIA



PIPE SIZE (mm)	225	300	300	300	375	
PIPE CLASS	3	3	3	3	3	
PIPE GRADE (%)	4.00%	0.50%	0.50%	3.00%	1.00%	
PIPE SLOPE (1 in X)	25.00	200.00	200.00	33.33	100.00	
FULL PIPE VELOCITY (m/s)	0.61	0.50	0.49	0.49	0.73	
PART FULL VELOCITY (m/s)	1.92	0.97	0.97	1.87	1.55	
DATUM RL	41.0					
H.G.L IN PIPE & W.S.E IN STRUCTURE	57.349 57.220	56.823 56.824	56.813 56.757 56.747	56.744 56.722 51.557	51.524 50.575 50.576	50.495 50.443 50.294
PIPE FLOW (Cumecs)	0.024	0.035	0.035	0.035	0.081	
PIPE CAPACITY AT GRADE (Cumecs)	0.090	0.068	0.068	0.168	0.175	
DEPTH TO INVERT	2.339	0.994	1.014	0.983	1.386	
INVERT LEVEL OF DRAIN	57.090	56.681	56.661	56.613	50.307	
DESIGN SURFACE LEVEL	59.429	57.675	57.596	57.575	51.693	
SETOUT COORDINATES	E 492468.874 N 6993007.921	E 492258.975 N 6993006.305	E 492268.467 N 6993004.551	E 492271.270 N 6993004.033	E 492306.649 N 6992998.674	E 492308.894 N 6992998.309
RUNNING CHAINAGE	0.000	10.229	9.653	22.732	35.783	

LINE R2

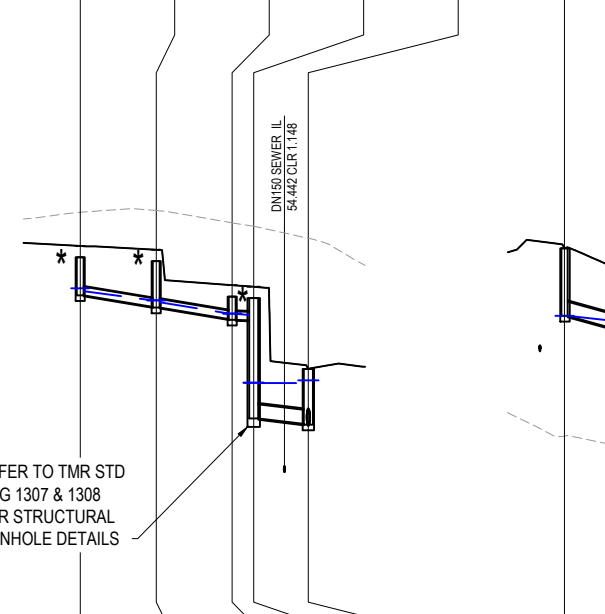
STRUCTURE NAME	R1/8	R2/8	R3/8	R4/8A	R4/8	F10/2
STRUCTURE DESCRIPTION	STD FIELD INLET TYPE 2 900x600	STD FIELD INLET TYPE 2 900x600	STD FIELD INLET TYPE 2 900x600	STD FIELD INLET TYPE 2 900x600	CUSTOM MANHOLE 1200mm DIA WITH BOLT DOWN LID	STD MANHOLE 1050mm DIA



PIPE SIZE (mm)	225	225	225	225	375	
PIPE CLASS	3	3	3	3	3	
PIPE GRADE (%)	5.00%	1.00%	2.50%	1.00%	1.00%	
PIPE SLOPE (1 in X)	20.00	100.00	40.00	100.00	100.00	
FULL PIPE VELOCITY (m/s)	0.37	0.71	1.08	1.07	0.39	
PART FULL VELOCITY (m/s)	1.80	1.19	1.87	1.29	1.31	
DATUM RL	39.0					
H.G.L IN PIPE & W.S.E IN STRUCTURE	54.680 54.632	53.972 53.625	53.558 53.422 53.086	52.933 52.686 52.686	52.674 52.644 48.384	48.360 48.354 48.384
PIPE FLOW (Cumecs)	0.015	0.028	0.043	0.043	0.043	
PIPE CAPACITY AT GRADE (Cumecs)	0.100	0.045	0.071	0.045	0.175	
DEPTH TO INVERT	1.490	0.991	1.487	0.943	1.317	
INVERT LEVEL OF DRAIN	54.633	53.914	53.293	52.759	47.764	
DESIGN SURFACE LEVEL	56.023	54.905	54.235	53.454	48.985	
SETOUT COORDINATES	E 492460.287 N 6992969.277	E 492478.064 N 6992971.234	E 492465.721 N 6992973.210	E 492456.235 N 6992974.728	E 492453.421 N 6992975.179	E 492443.898 N 6992976.703
RUNNING CHAINAGE	0.000	12.379	12.500	34.486	2.850	

LINE R3

STRUCTURE NAME	R1/9	R2/9	R3/9A	R3/9	G4/2	G1/17	7/1
STRUCTURE DESCRIPTION	STD FIELD INLET TYPE 2 900x600	STD FIELD INLET TYPE 2 900x600	STD FIELD INLET TYPE 2 900x600	STRUCTURAL MANHOLE 1200mm DIA WITH BOLT DOWN LID	STD TYPE A GULLY LIL: 2.4m LINTEL, TYPE S	STD TYPE A GULLY LIL: 2.4m LINTEL, TYPE S	STD MANHOLE 1050mm DIA

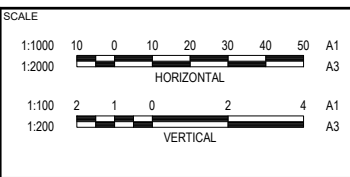


PIPE SIZE (mm)	225	225	225	375		
PIPE CLASS	3	3	3	3		
PIPE GRADE (%)	3.03%	3.03%	0.50%	2.00%		
PIPE SLOPE (1 in X)	33.00	33.00	200.00	50.00		
FULL PIPE VELOCITY (m/s)	0.45	0.73	0.73	0.26		
PART FULL VELOCITY (m/s)	1.60	1.82	0.91	1.50		
DATUM RL	45.0					
H.G.L IN PIPE & W.S.E IN STRUCTURE	59.298 59.226	58.981 58.981	58.933 58.632 58.632	58.626 58.594 56.804	56.794 56.792 56.868	56.057
PIPE FLOW (Cumecs)	0.018	0.029	0.029	0.029		
PIPE CAPACITY AT GRADE (Cumecs)	0.078	0.078	0.032	0.248		
DEPTH TO INVERT	1.304	1.509	1.529	0.898		
INVERT LEVEL OF DRAIN	59.115	58.810	58.790	58.466		
DESIGN SURFACE LEVEL	60.419	60.319	59.384	59.341		
SETOUT COORDINATES	E 492516.392 N 6992962.592	E 492509.741 N 6992945.047	E 492503.097 N 6992937.508	E 492501.213 N 6992935.370	E 492495.864 N 6992930.516	E 492309.578 N 6992966.357
RUNNING CHAINAGE	0.000	10.057	10.049	2.850		

LINE 11

REV	DATE	DESIGN	DRAWN	ISSUED FOR APPROVAL
1	08.11.2024	SM	SM	ISSUED FOR APPROVAL
2	23.01.2025	NP	NP	COUNCIL RPTS ADDRESSED
3	30.01.2025	NP	NP	ISSUED FOR CONSTRUCTION

DESIGN	APPROVED JAMES VONHOFF jvonhoff	DATE	09.07.25
STATUS	ISSUED FOR CONSTRUCTION		
PROJECT	RPEQ 32647	DATE	09.07.25



CLIENT
SATTERLEY PROPERTY GROUP PTY LTD




ASSOCIATED CONSULTANT
 COLLIER'S PTY LTD
 (07) 3532 1300

PROJECT NAME
RIDGEVIEW STAGE 13

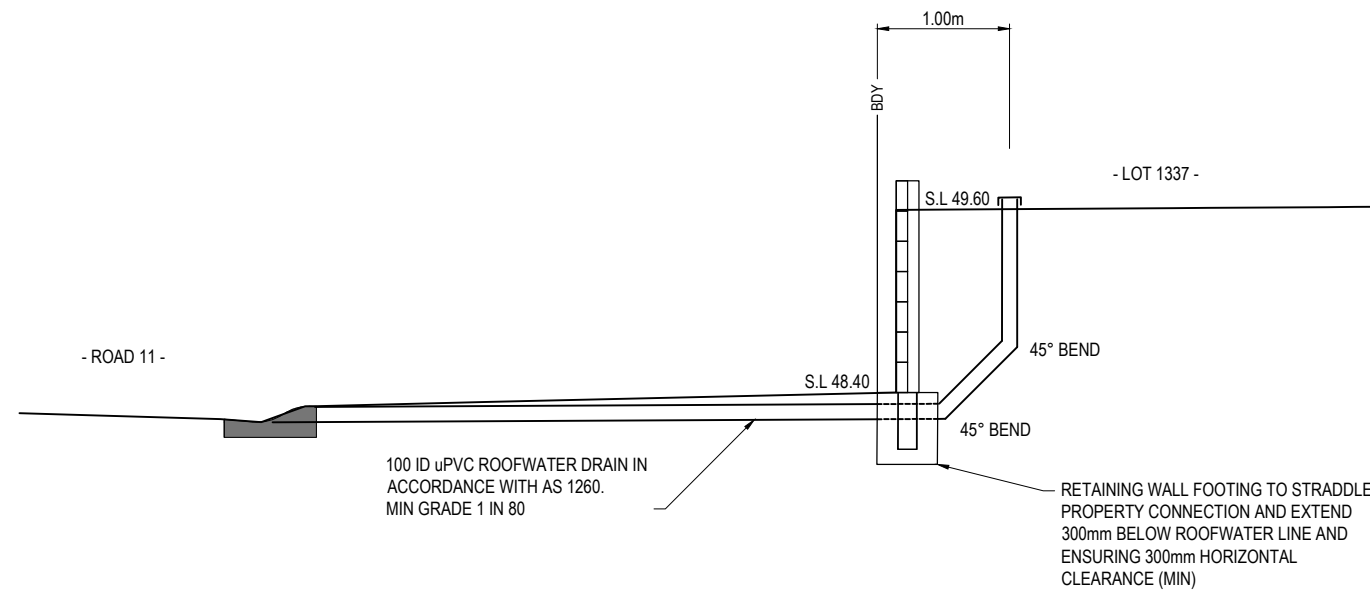
RAYNBIRD ROAD
 NARANGBA

DRAWING TITLE		
STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 4 OF 5		
PROJECT No.	DRAWING No.	REVISION
21-0249	125	3

STRUCTURE SETOUT REFERENCE POINT

STRUCTURE TYPE	HORIZONTAL	VERTICAL
MANHOLE	 CL MAIN SHAFT	FINISHED SURFACE LEVEL
GULLY PIT	 INTERSECTION OF CL 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



ROOFWATER CONNECTION UNDER
RETAINING WALL TO LOT 1337

1:25 (A1)
1:50 (A3)

REV	DATE	DESIGN	DRAWN	REVISION DETAILS
1	08.11.2024	SM	SM	ISSUED FOR APPROVAL
2	23.01.2025	NP	NP	COUNCIL RFTS ADDRESSED
3	30.01.2025	NP	NP	ISSUED FOR CONSTRUCTION

DRAWN	STATUS
NP	ISSUED FOR CONSTRUCTION



SCALE
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1:2000 HORIZONTAL A3
1:100 2 1 0 2 4 A1
1:200 VERTICAL A3

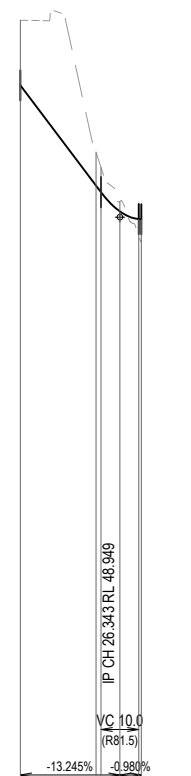
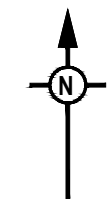
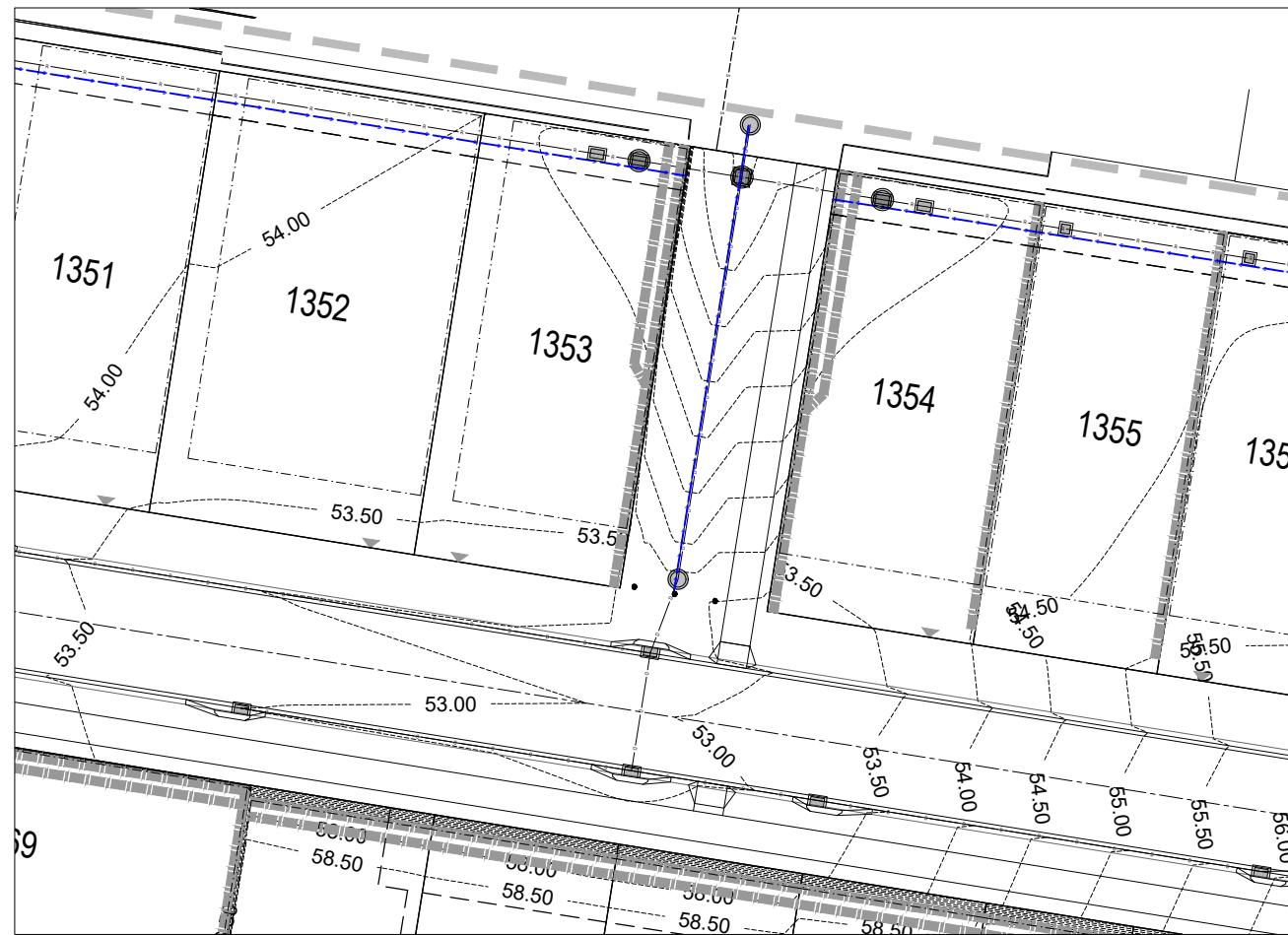
CLIENT
SATTERLEY PROPERTY GROUP PTY LTD
ASSOCIATED CONSULTANT
COLLIERS PTY LTD (07) 3532 1300

PROJECT NAME
RIDGEVIEW STAGE 13
RAYNBIRD ROAD NARANGBA

DRAWING TITLE		
STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 5 OF 5		
PROJECT No. 21-0249	DRAWING No. 126	REVISION 3

LEGEND

- PROPOSED AREA OF WORKS
- PROPOSED SWALE CONTROL LINE
- PROPOSED KERB INVERT LINE
- PROPOSED CONCRETE PATH AND PRAM RAMP
- MANDATORY DRIVEWAY LOCATION
- PROPOSED SURFACE CONTOUR
- PROPOSED STORMWATER DRAINAGE PIPE



DATUM RL 33.0

CUT (-) / FILL	1720	-1.720	-0.883	-0.851	-0.264	0.452	0.585
DESIGN SURFACE	52.438	49.789	49.611	49.102	48.900	48.893	
EXISTING SURFACE	54.158	50.671	50.263	49.366	48.448	48.308	
CHAINAGES	0.000	20.000	21.343	26.343	31.343	31.995	
HORIZONTAL CURVES							

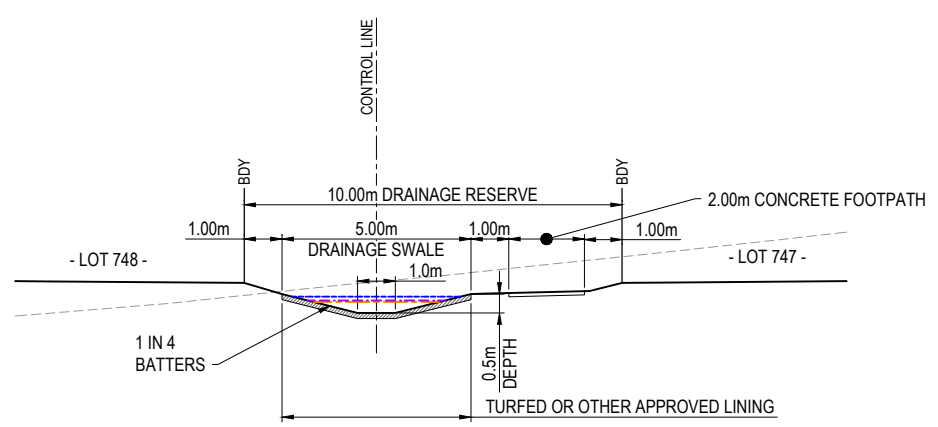
HORIZ SCALE: 1000
VERTICAL SCALE: 100

ROAD 4

LEGEND

- Q100 WATER SURFACE LEVEL (Q=1.442m³/s)
- Q10 WATER SURFACE LEVEL (Q=0.814m³/s)
- Q100-Q10 WATER SURFACE LEVEL (Q=0.628m³/s)

MINIMUM FREEBOARD:
FOR Q100 FLOW AND FLOW DEPTH = 0.43m, MINIMUM FREEBOARD TO LOTS 747 AND 748 WOULD BE 0.305m AT THE REAR OF THE LOTS



DRAINAGE SWALE TYPICAL SECTION
1:100 (A1)
1:200 (A3)

C#	Slope	Height	□	Flow	Area	WP	R	K	Vel.	Fr	Note
1	1.000	0.329	☑	0.814	0.763	3.716	0.205	8.14	1.07	0.81	Sub-critical flow
2	1.000	0.430	☑	1.442	1.169	4.545	0.257	14.42	1.23	0.84	Sub-critical flow
3	1.000	0.291	☑	0.628	0.630	3.401	0.185	6.28	1.00	0.79	Sub-critical flow
4	<Enter>	<Enter>		<Enter>							

DRAINAGE SWALE FLOW CALCULTIONS

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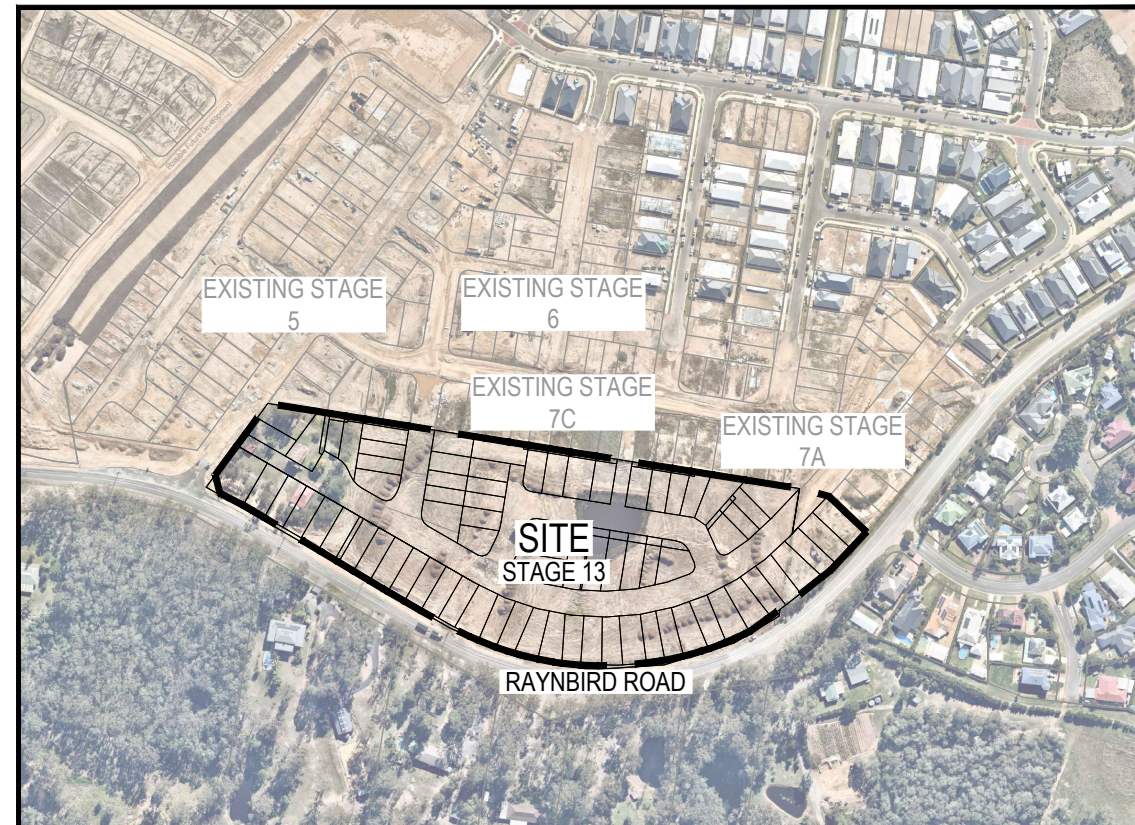
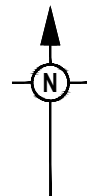
PROPOSED RESIDENTIAL DEVELOPMENT

RIDGEVIEW - STAGE 13

RAYNBIRD ROAD, NARANGBA

FOR 'SATTERLEY PROPERTY GROUP PTY LTD'

- 21-0249-300 SEWERAGE AND WATER RETICULATION COVER PLAN
- 21-0249-301 WATER RETICULATION LIVE WORKS AND GENERAL NOTES
- 21-0249-302 SEWERAGE RETICULATION LIVE WORKS AND GENERAL NOTES
- 21-0249-303 SEWERAGE LAYOUT PLAN
- 21-0249-304 SEWERAGE LONGITUDINAL SECTIONS SHEET 1 OF 4
- 21-0249-305 SEWERAGE LONGITUDINAL SECTIONS SHEET 2 OF 4
- 21-0249-306 SEWERAGE LONGITUDINAL SECTIONS SHEET 3 OF 4
- 21-0249-307 SEWERAGE LONGITUDINAL SECTIONS SHEET 4 OF 4
- 21-0249-308 WATER RETICULATION LAYOUT PLAN
- 21-0249-309 WATER HYDRANT REACH PLAN
- 21-0249-310 WATER AND SEWER NETWORK LAYOUT PLAN



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

NAME OF ESTATE	RIDGEVIEW STAGE 13
SUBDIVIDER	SATTERLEY PROPERTY GROUP PTY LTD
SP APPLICATION No.	TBC
SP APPROVAL DATE	TBC
No. OF ALLOTMENTS	76

I, Chris O'Sullivan for and on behalf of COLLIERS INTERNATIONAL ENGINEERING & DESIGN PTY. LTD. on 18.11.2024 certify that:

1. This plan has been assessed in accordance with the SEQ Code and Unitywater Standards;
2. The construction of the works must only be undertaken in accordance with this plan; and
3. No design *Amendments* are permitted either before or during construction without the approval of Unitywater.
4. During construction, where required, *Variation Notifications* must be submitted in accordance with the A&C Manual.

Signed Chris O'Sullivan ACR/MAJ 2018-0070

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1	14.11.24	SM	SM	ISSUED FOR APPROVAL	NP	NOT FOR CONSTRUCTION	1:2500 50 0 50 100 A1 1:5000	SATTERLEY PROPERTY GROUP PTY LTD	RIDGEVIEW STAGE 13	SEWERAGE AND WATER RETICULATION COVER PLAN		
					NP	APPROVED JAMES VONHOFF <i>J Vonhoff</i> RPEQ 32647 DATE 14.11.24		ASSOCIATED CONSULTANT COLLIERS PTY LTD (07) 3532 1300	RAYNBIRD ROAD NARANGBA	PROJECT No. 21-0249	DRAWING No. 300	REVISION 1
FOR AND ON BEHALF OF COLLIERS INTERNATIONAL ENGINEERING & DESIGN PTY LTD												

GENERAL NOTES:

- 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.
- 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.
- ALL DESIGN AND CONSTRUCTION ACTIVITIES UNDERTAKEN SHALL COMPLY WITH CURRENT WORKPLACE HEALTH AND SAFETY REQUIREMENTS AND LEGISLATION.
- PRIOR TO COMMENCING WORK, THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL RELEVANT LOCAL AUTHORITY PERMITS.
- THE CONTRACTOR SHALL NOT COMMENCE THE DEMOLITION OF ANY EXISTING BUILDINGS AND/OR STRUCTURES WITHOUT APPROVAL FROM THE SUPERINTENDENT.
- 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.
- THE CERTIFICATION OF THIS DESIGN IS BASED ON SURVEY AND POT HOLE 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 POT HOLE INFORMATION PROVIDED BY THE SURVEYOR AND CONTRACTOR AT THE TIME OF DESIGN.
- 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 POT HOLE INFORMATION PROVIDED BY THE SURVEYOR AND CONTRACTOR AT THE TIME OF DESIGN.
- 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.
- 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.
- 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

- TREES LOCATED ALONG THE FOOTPATH SHALL BE, TRANSPLANTED PRIOR TO CONSTRUCTION, OR REPLACED IF DESTROYED.
- 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.
- 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.
- ANY TREE LOPPING REQUIRED SHOULD BE UNDERTAKEN BY AN APPROVED ARBORIST.

SOIL

- TOPSOIL AND SUBSOIL SHALL BE STOCKPILED SEPARATELY.
- CARE SHALL BE TAKEN TO PREVENT SEDIMENT FROM ENTERING THE STORMWATER SYSTEM. THIS MAY INVOLVE PLACING APPROPRIATE SEDIMENT CONTROLS AROUND STOCKPILES.

CREEK CROSSINGS

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

REHABILITATION

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

I, Chris O'Sullivan for and on behalf of COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY. LTD. on 18.11.2024 certify that:

- This plan has been assessed in accordance with the SEQ Code and Unitywater Standards;
- The construction of the works must only be undertaken in accordance with this plan; and
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- During construction, where required, Variation Notifications must be submitted in accordance with the A&C Manual.

Signed Chris O'Sullivan ACR/MAJ 2018-0070

WATER RETICULATION NOTES

- 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.
- UNLESS SPECIFIED OTHERWISE ALL MATERIALS AND WORK SHALL COMPLY WITH THE RELEVANT AUSTRALIAN STANDARDS.
- 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.
- 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.
- ADOPT LIP OF KERB OR SHOULDER OF ROAD AS PERMANENT LEVEL.
- COVER ON MAINS FROM PERMANENT LEVEL TO BE AS SHOWN IN SEQ-WAT-1200-2.
- CONDUITS TO BE INSTALLED IN ACCORDANCE WITH THE STANDARD DRAWINGS.
- 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.
- HYDRANTS TO BE INSTALLED AT THE END OF ALL NEW MAINS WHERE REQUIRED FOR TESTING AND COMMISSIONING PURPOSES.

PRIOR DEPENDENCIES

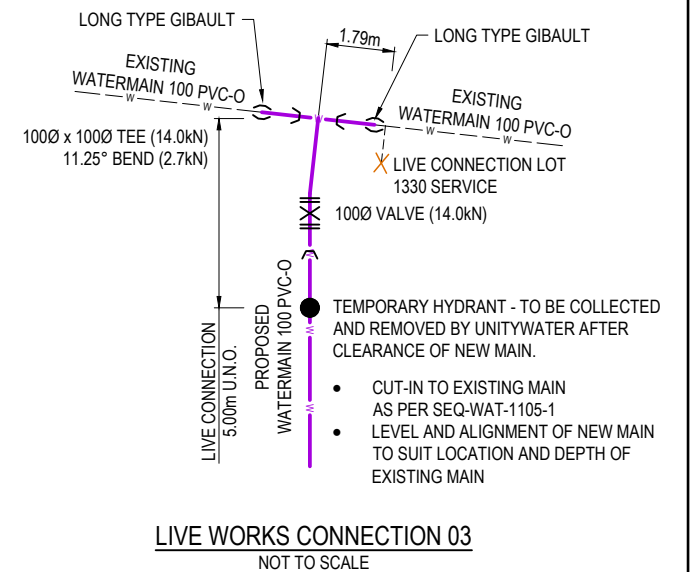
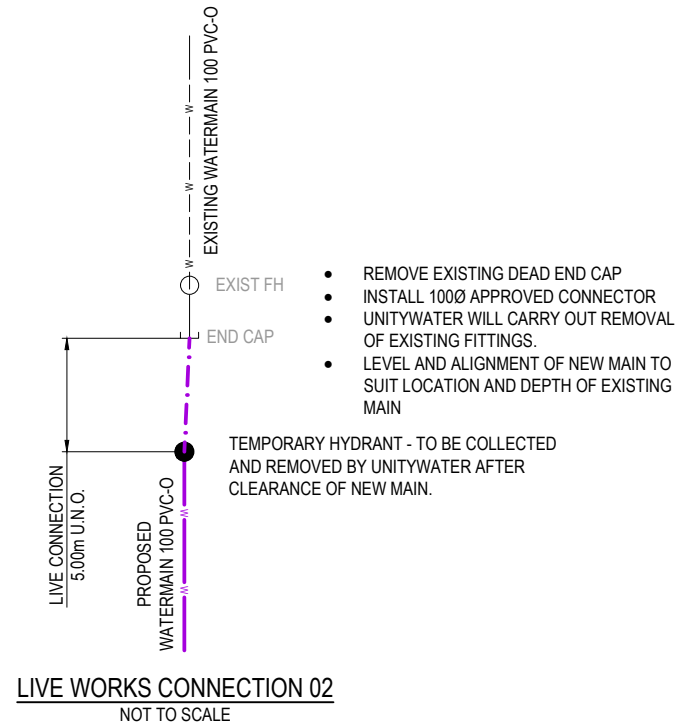
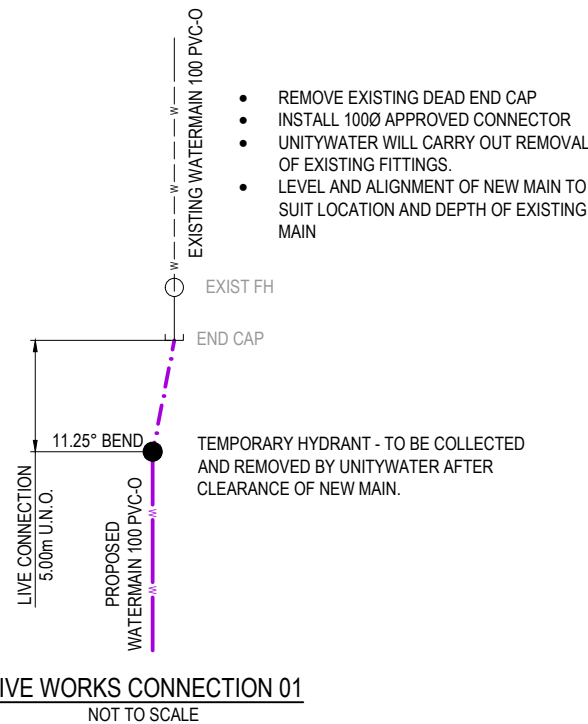
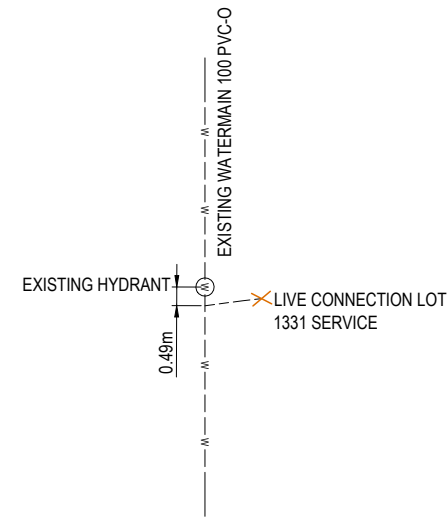
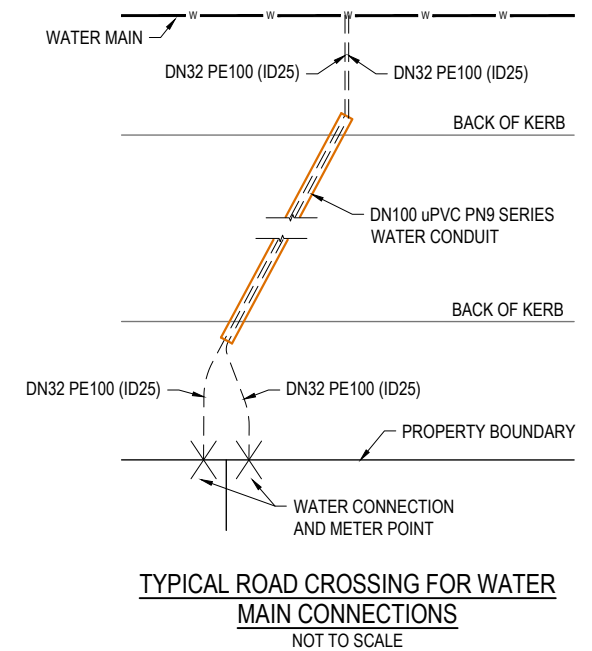
CONTRACTOR AND CONSULTING ENGINEERS TO BE AWARE THAT LIVE CONNECTIONS CANNOT OCCUR UNTIL THE FOLLOWING PRIOR DEPENDENCIES HAVE BEEN COMPLETED, ACCEPTED AND MADE LIVE BY UNITYWATER IN THE FOLLOWING ORDER:

- STAGE 5 UW 2018012748-S8
- STAGE 7 UW 2018012748-ST4-B

ALL WATER AND SEWERAGE CONSTRUCTION SHALL COMPLY WITH THE REQUIREMENTS OF THE QUEENSLAND WORK HEALTH AND SAFETY ACT 2011. CONTACT THE DIVISION OF WORKPLACE HEALTH AND SAFETY FOR INFORMATION. PHONE 1300 362 128

ALL WORKS ON EXISTING WATER MAINS TO BE CARRIED OUT BY UNITYWATER AT THE DEVELOPER'S EXPENSE.

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



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					DESIGN	APPROVED				
					NP	JAMES VONHOFF		ASSOCIATED CONSULTANT		
								COLLIERS PTY LTD	RAYNBIRD ROAD NARANGBA	PROJECT No. 21-0249
								(07) 3532 1300		DRAWING No. 301
										REVISION 1



LIVE SEWER WORKS BY CONTRACTOR

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)	CONTRACTOR TO INSTALL PLUG ON DOWNSTREAM 3/5 AND DOWNSTREAM E/5 UNDER CONSTRUCTION CERTIFIER'S SUPERVISION AND G02ASSET PERMIT TO WORK. ONCE LINES ARE FLUSHED AND TESTED, CONTRACTOR TO CONNECT SEWERAGE NETWORK TO EXISTING 150mm STUB AT 3/5, LEAVING EXISTING PLUG IN PLACE	150	E/5	MS	B						N
1(B)	FOLLOWING SUCCESSFUL ON-MAINTENANCE INSPECTION, NETWORK CLEANSING, TESTING AND INSPECTION, MAJOR CONNECTION CERTIFIER TO LODGE PLANNED NETWORK INTERVENTION WORK PERMIT FOR SEWER PLUG REMOVAL.										
1(C)	ONCE WORK PERMIT IS APPROVED, UNDER SUPERVISION OF CONSTRUCTION CERTIFIER, CONTRACTOR TO REMOVE PLUG FROM 3/5 AND E/5										
2(A)	CONTRACTOR TO INSTALL PLUG ON DOWNSTREAM 1/6 AND DOWNSTREAM E/6 UNDER CONSTRUCTION CERTIFIER'S SUPERVISION AND G02ASSET PERMIT TO WORK. ONCE LINES ARE FLUSHED AND TESTED, CONTRACTOR TO CONNECT SEWERAGE NETWORK TO EXISTING 150mm STUB AT 1/6, LEAVING EXISTING PLUG IN PLACE	150	E/6	EXIST STUB	-						N
2(B)	FOLLOWING SUCCESSFUL ON-MAINTENANCE INSPECTION, NETWORK CLEANSING, TESTING AND INSPECTION, MAJOR CONNECTION CERTIFIER TO LODGE PLANNED NETWORK INTERVENTION WORK PERMIT FOR SEWER PLUG REMOVAL.										
2(C)	ONCE WORK PERMIT IS APPROVED, UNDER SUPERVISION OF CONSTRUCTION CERTIFIER, CONTRACTOR TO REMOVE PLUG FROM 1/6 AND E/6										
3(A)	REALIGNMENT OF LINE 7 TO 1.75m OFF THE PROPERTY BOUNDARY FROM STRUCTURE 2/7 TO EX.4/2	150			B	1301					
3(B)	FOLLOWING SUCCESSFUL ON-MAINTENANCE INSPECTION, NETWORK CLEANSING, TESTING AND INSPECTION, MAJOR CONNECTION CERTIFIER TO LODGE PLANNED NETWORK INTERVENTION WORK PERMIT FOR SEWER PLUG REMOVAL.										
3(C)	ONCE WORK PERMIT IS APPROVED, UNDER SUPERVISION OF CONSTRUCTION CERTIFIER, CONTRACTOR TO REMOVE PLUG FROM 4/2										

SEWERAGE NOTES

- 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.
- UNLESS SPECIFIED OTHERWISE ALL MATERIALS AND WORK SHALL COMPLY WITH THE RELEVANT AUSTRALIAN STANDARDS.
- 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.
- ALL WORKS ON EXISTING SEWER MAINS ARE TO BE CARRIED OUT BY UNITYWATER AT THE DEVELOPER'S EXPENSE OR AS DIRECTED BY UNITYWATER.
- ALL PIPES AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE "ACCEPTED PRODUCTS AND MATERIALS" LIST, UNLESS APPROVED BY THE WATER AUTHORITY.
- BENCH MARK AND LEVELS TO AHD.
- 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.
- 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.
- SEWERS SHALL BE DISUSED/ABANDONED IN ACCORDANCE WITH PROCEDURE SET OUT IN THE GRAVITY SEWER CODE.
- EACH ALLOTMENT SHALL BE SERVED BY A 100Ø PVC PROPERTY CONNECTION. FOR ALLOTMENTS OTHER THAN SINGLE RESIDENTIAL, A 150Ø PVC 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 500mm AND A MAXIMUM OF 750mm.
- EXISTING ALLOTMENTS REQUIRING A PROPERTY CONNECTIONS FROM EXISTING SEWERS SHALL BE PROVIDED BY THE SEQ SERVICE PROVIDER AT THE DEVELOPERS COST.

PRIOR DEPENDENCIES

CONTRACTOR AND CONSULTING ENGINEERS TO BE AWARE THAT LIVE CONNECTIONS CANNOT OCCUR UNTIL THE FOLLOWING PRIOR DEPENDENCIES HAVE BEEN COMPLETED, ACCEPTED AND MADE LIVE BY UNITYWATER IN THE FOLLOWING ORDER:

- STAGE 7 UW 2018012748-S7A-B

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.

ALL WATER AND SEWERAGE CONSTRUCTION SHALL COMPLY WITH THE REQUIREMENTS OF THE QUEENSLAND WORK HEALTH AND SAFETY ACT 2011. CONTACT THE DIVISION OF WORKPLACE HEALTH AND SAFETY FOR INFORMATION. PHONE 1300 362 128

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

ALL LIVE WORKS ASSOCIATED WITH THE SEWERAGE NETWORK SHALL BE CARRIED OUT AT THE DEVELOPER'S COST, EITHER

- BY THE CONTRACTOR, FOR 'MINOR' SEWERAGE CONNECTION WORKS, DEFINED IN THE A&C MANUAL UNDER SECTION PRE-START MEETING, UNDER THE UNSPECTION OF THE CONSTRUCTION CERTIFIER WHO SHALL FOLLOW THE PLANNED NETWORK INTERVENTION PROCESS, OR
- BY QUOTATION REQUEST TO UNITYWATER PRIVATE WORKS, FOR SEWERAGE CONNECTION WORKS NOT MEETING THE CRITERIA FOR CLASSIFICATION AS 'MINOR'

I, Chris O'Sullivan for and on behalf of COLLIERS INTERNATIONAL ENGINEERING & DESIGN PTY. LTD. on 18.11.2024 certify that:

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					DESIGN	APPROVED JAMES VONHOFF RPEQ 32647 DATE 14.11.24		ASSOCIATED CONSULTANT COLLIERS PTY LTD (07) 3532 1300	RAYNBIRD ROAD NARANGBA	PROJECT No. 21-0249
					NP	<i>gVonhoff</i>				DRAWING No. 302
						FOR AND ON BEHALF OF COLLIERS INTERNATIONAL ENGINEERING & DESIGN PTY LTD				REVISION 1

LEGEND

- PROPOSED AREA OF WORKS
- PROPOSED SEWER MAIN
- EXISTING SEWER MAIN
- *24.60 SEWER LOT CONTROL SURFACE LEVEL
- ↑ INDICATIVE DRIVEWAY LOCATION
- ZERO LOT BOUNDARY
- FINISHED SURFACE CONTOUR
- PROPOSED STORMWATER DRAINAGE PIPE
- EXISTING STORMWATER DRAINAGE PIPE
- PROPOSED WATER MAIN
- EXISTING WATER MAIN
- x PROPOSED WATER SERVICE POINT
- PROPOSED CONCRETE SLEEPER RETAINING WALL
- EXISTING CONCRETE SLEEPER RETAINING WALL
- PROPOSED ELECTRICAL CABLE U/G
- EXISTING ELECTRICAL CABLE U/G

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

RP DESCRIPTION

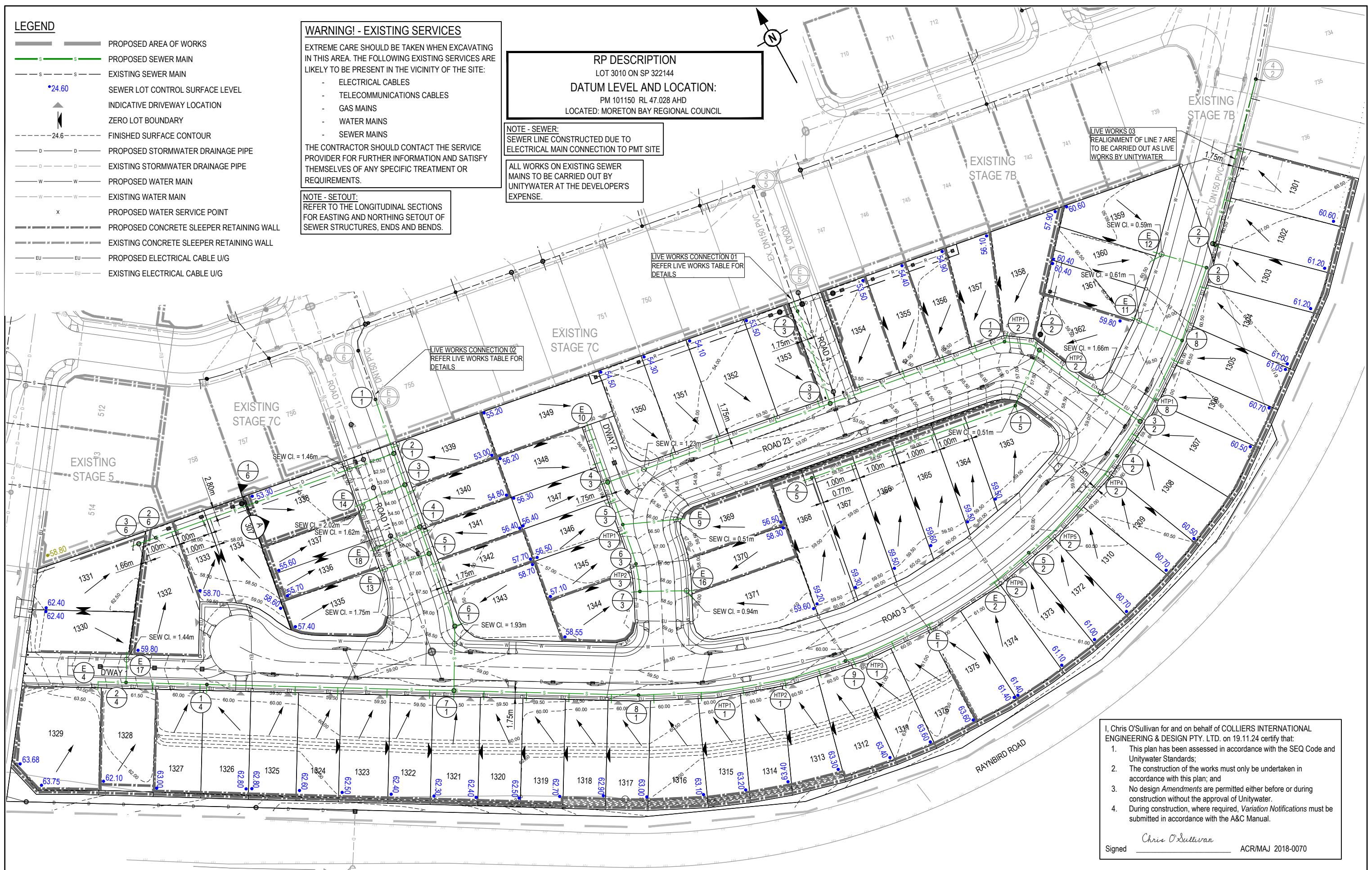
LOT 3010 ON SP 322144

DATUM LEVEL AND LOCATION:

PM 101150 RL 47.028 AHD
LOCATED: MORETON BAY REGIONAL COUNCIL

NOTE - SEWER:
SEWER LINE CONSTRUCTED DUE TO ELECTRICAL MAIN CONNECTION TO PMT SITE

ALL WORKS ON EXISTING SEWER MAINS TO BE CARRIED OUT BY UNITYWATER AT THE DEVELOPER'S EXPENSE.



I, Chris O'Sullivan for and on behalf of COLLIERS INTERNATIONAL ENGINEERING & DESIGN PTY. LTD. on 19.11.24 certify that:

1. This plan has been assessed in accordance with the SEQ Code and Unitywater Standards;
2. The construction of the works must only be undertaken in accordance with this plan; and
3. No design Amendments are permitted either before or during construction without the approval of Unitywater.
4. During construction, where required, Variation Notifications must be submitted in accordance with the A&C Manual.

Signed Chris O'Sullivan ACR/MAJ 2018-0070

REV	DATE	DESIGN	DRAWN	ISSUED FOR APPROVAL	REVISION DETAILS	DRAWN	STATUS	SCALE	CLIENT	PROJECT NAME	DRAWING TITLE			
1	14.11.24	SM	SM			NP	NOT FOR CONSTRUCTION	1:500 1:1000	SATTERLEY PROPERTY GROUP PTY LTD	RIDGEVIEW STAGE 13	SEWERAGE LAYOUT PLAN			
							DESIGN APPROVED JAMES VONHOFF <i>Vonhoff</i>	RPEQ 32647	DATE 14.11.24	ASSOCIATED CONSULTANT COLLIERS PTY LTD (07) 3532 1300	RAYNBIRD ROAD NARANGBA	PROJECT No. 21-0249	DRAWING No. 303	REVISION 1

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

STRUCTURE NAME

STRUCTURE TYPE & DROP

STRUCTURE LID TYPE

JUNCT. LINE No.

JUNCT. DROP TYPES

DEPTH TO HC

HC INVERT LEVEL

HC TYPE

HC LOT No.

CH FROM DS STRUCTURE

STRUCTURE TYPES
 C2 = CAST-IN-SITU 1.500Ø
 P2 = PRE-CAST CONCRETE 1.050Ø
 MS = uPVC TYPE 'G' 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

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.

LAND USE

PIPE DIA & TYPE

PIPE GRADE (1 in x)

EMBEDMENT

DATUM RL(m)

JUNCTION INVERT LEVEL

DEPTH TO INVERT

SEWER INVERT LEVEL

DESIGN SURFACE LEVEL

EXISTING SURFACE LEVEL

SETOUT

RUNNING CHAINAGE

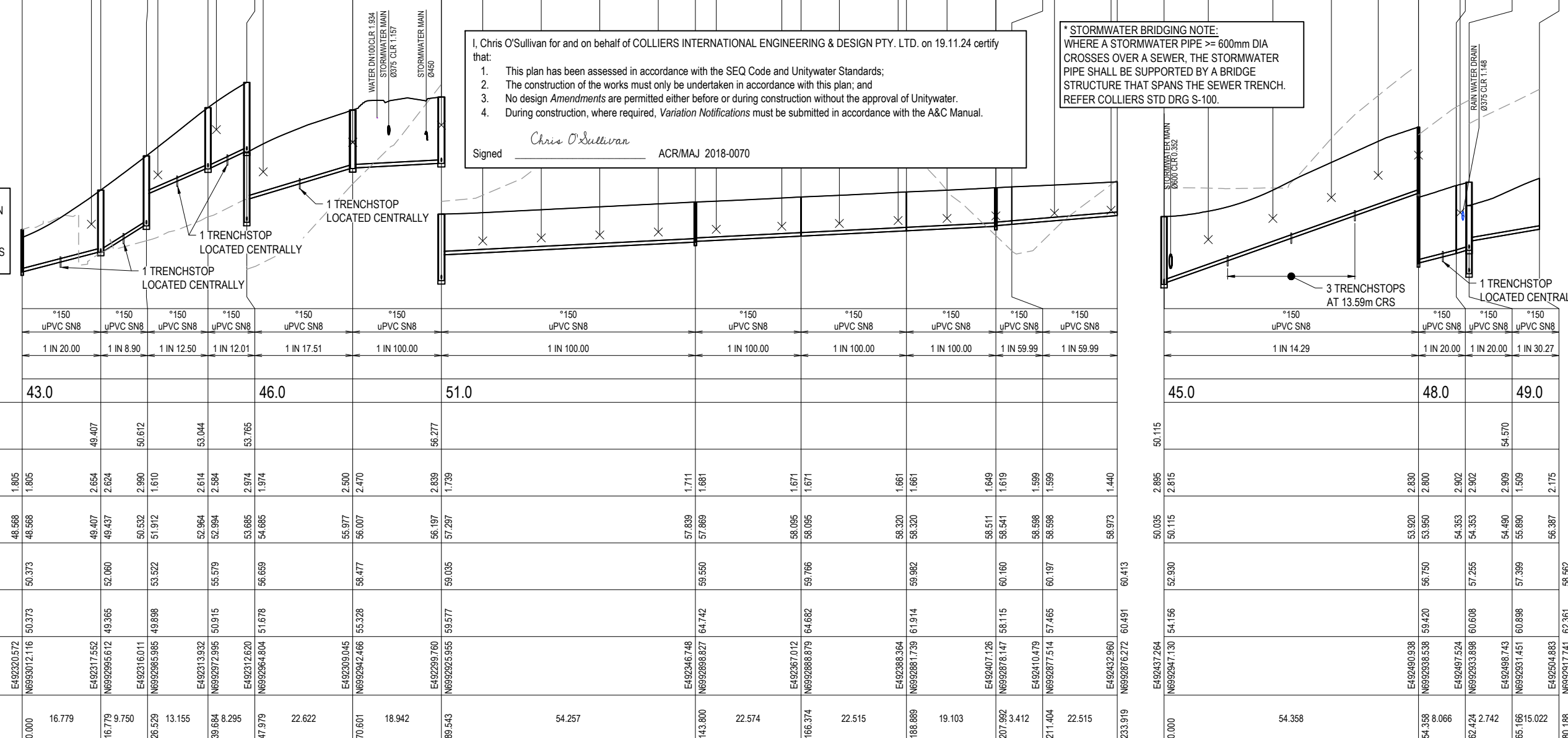
LINE NUMBER

STRUCTURE NAME	1/1	2/1	3/1	4/1	5/1	6/1	7/1	8/1	HTP1/1	HTP2/1	9/1	HTP3/1	E/1	3/3	1/2	HTP1/2	2/2	HTP2/2																		
STRUCTURE TYPE & DROP	MS	P2	P2	P2	P2	P2	P2	P2	HTP	HTP	MS	HTP	END	P2	MS	HTP	P2	HTP																		
STRUCTURE LID TYPE	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D																		
JUNCT. LINE No.		6	14	18	13	20	4	4						3	25		5																			
JUNCT. DROP TYPES		V	X	V	X	V	X	X						V		X																				
DEPTH TO HC		1.167	1.196	1.196	1.193	1.376	1.201	1.201	1.202	1.206	1.200	1.202	1.200		1.200	1.203	1.203	1.200																		
HC INVERT LEVEL		50.604	52.705	54.640	55.839	57.101	57.834	58.888	58.385	58.515	58.636	58.760	58.850	58.960	55.550	56.095	56.950	55.550																		
HC TYPE		D	B	D	B	B	A	A	A	A	A	A	A	A	B	B	B	B																		
HC LOT No.		1339	1340	1341	1342	1343	1321	1320	1316	1315	1314	1313	1312	1311	1358	1362	1362	1358																		
CH FROM DS STRUCTURE		14.779	2.451	1.795	3.900	0.000	0.000	8.836	21.336	33.836	46.336	4.469	18.468	8.188	20.733	8.670	19.103	9.113	21.195																	
PIPE DIA & TYPE		*150 uPVC SN8	*150 uPVC SN8	*150 uPVC SN8	*150 uPVC SN8	*150 uPVC SN8	*150 uPVC SN8	*150 uPVC SN8	*150 uPVC SN8	*150 uPVC SN8	*150 uPVC SN8	*150 uPVC SN8	*150 uPVC SN8	*150 uPVC SN8	*150 uPVC SN8	*150 uPVC SN8	*150 uPVC SN8	*150 uPVC SN8																		
PIPE GRADE (1 in x)		1 IN 20.00	1 IN 8.90	1 IN 12.50	1 IN 12.01	1 IN 17.51	1 IN 100.00	1 IN 100.00	1 IN 100.00	1 IN 100.00	1 IN 100.00	1 IN 100.00	1 IN 59.99	1 IN 59.99	1 IN 14.29	1 IN 20.00	1 IN 20.00	1 IN 30.27																		
DATUM RL(m)		43.0			46.0		51.0							45.0	48.0		49.0																			
JUNCTION INVERT LEVEL			49.407	50.612	53.044	53.765	56.277																													
DEPTH TO INVERT	1.805	1.805	2.654	2.624	2.990	1.610	2.614	2.584	2.974	1.974	2.500	2.470	2.839	1.711	1.681	1.671	1.671	1.661	1.661																	
SEWER INVERT LEVEL	48.588	48.588	49.407	49.437	50.532	51.912	52.964	52.994	53.685	54.685	55.977	56.007	56.197	57.297	57.869	58.095	58.320	58.320	58.320																	
DESIGN SURFACE LEVEL	50.373	50.373	52.060	53.522	55.579	56.659	58.477	59.035	59.550	59.766	59.982	59.982	60.160	60.160	60.160	60.160	60.160	60.160	60.160																	
EXISTING SURFACE LEVEL	50.373	50.373	49.365	49.898	50.915	51.678	55.328	59.577	64.742	64.682	61.914	61.914	58.115	58.115	58.115	58.115	58.115	58.115	58.115																	
SETOUT	E49220.572	N699301.216	E492317.552	N6992995.612	E492316.011	N6992985.985	E492313.932	N6992972.995	E492312.620	N6992964.804	E492309.045	N6992942.466	E492309.760	N6992925.955	E492346.748	N6992988.827	E492367.012	N6992988.879	E492388.364	N6992981.739	E492407.126	N6992978.147	E492410.479	N6992977.514	E492432.960	N6992976.272	E492437.264	N6992947.130	E492490.938	N6992935.538	E492497.524	N6992933.898	E492498.743	N6992931.451	E492504.883	N6992917.741
RUNNING CHAINAGE	0.000	16.779	16.779	9.750	26.529	13.155	39.684	8.295	47.979	22.622	70.601	18.942	89.543	54.257	143.800	22.574	166.374	22.515	188.889	19.103	207.992	3.412	211.404	22.515	233.919	0.000	54.358	54.358	8.066	62.424	2.742	65.166	15.022	80.188		

I, Chris O'Sullivan for and on behalf of COLLIERS INTERNATIONAL ENGINEERING & DESIGN PTY. LTD. on 19.11.24 certify that:
 1. This plan has been assessed in accordance with the SEQ Code and Unitywater Standards;
 2. The construction of the works must only be undertaken in accordance with this plan; and
 3. No design Amendments are permitted either before or during construction without the approval of Unitywater.
 4. During construction, where required, Variation Notifications must be submitted in accordance with the A&C Manual.

Signed *Chris O'Sullivan* ACR/MAJ 2018-0070

* 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 COLLIERS STD DRG S-100.



REV	DATE	DESIGN	DRAWN	REVISION DETAILS	DRAWN	STATUS	SCALE	CLIENT	PROJECT NAME	DRAWING TITLE		
1	14.11.24	SM	SM	ISSUED FOR APPROVAL	NP	NOT FOR CONSTRUCTION	1:500 10 5 0 10 20 A1 1:1000 HORIZONTAL A3 1:100 2 1 0 2 4 A1 1:200 VERTICAL A3	SATTERLEY PROPERTY GROUP PTY LTD	RIDGEVIEW STAGE 13	SEWERAGE LONGITUDINAL SECTIONS 1 OF 4		
					DESIGN	APPROVED						
					NP	JAMES VONHOFF RPEQ 32647 DATE 14.11.24	ASSOCIATED CONSULTANT COLLIERS PTY LTD (07) 3532 1300		RAYNBIRD ROAD NARANGBA			
					FOR AND ON BEHALF OF COLLIERS INTERNATIONAL ENGINEERING & DESIGN PTY LTD					PROJECT No. 21-0249	DRAWING No. 304	REVISION 1

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

STRUCTURE NAME	HTP	NA	4/2	HTP4/2	HTP5/2	5/2	HTP6/2	E/2	E/5	2/3	3/3	4/3	5/3	NA	6/3	NA	7/3	7/1	1/4
STRUCTURE TYPE & DROP	HTP	P2	V	MS	HTP	MS	HTP	END	MS	P2	V	P2	MS	HTP	MS	HTP	MS	P2	MS
STRUCTURE LID TYPE		D		D					D	D	V	X	D		D		D	X	D
JUNCT. LINE No.		90°	90°							90°	90°	90°	90°		6°		16°		
JUNCT. DROP TYPES		V								V		X						X	
DEPTH TO HC			1.204	1.204						1.201	1.201	1.251	1.101		1.234		1.200	1.201	1.182
HC INVERT LEVEL			58.024	58.026						51.820	51.891	52.232	53.171		57.074		55.212	57.900	58.363
HC TYPE			B	B						D	B	A	B		B		A	B	B
HC LOT No.			1307	1308						1353	1352	1351	1350		1344		1345	1323	1326
CH FROM DS STRUCTURE			4.304	6.305						2.950	16.750	34.760	48.760		4.056		0.000	72.517	

STRUCTURE TYPES
 C2 = CAST-IN-SITU 1.500Ø
 P2 = PRE-CAST CONCRETE 1.050Ø
 MS = uPVC TYPE 'G' 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

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.

LAND USE
 PIPE DIA & TYPE
 PIPE GRADE (1 in x)
 EMBEDMENT
 DATUM RL(m)

JUNCTION INVERT LEVEL		57.011																	
DEPTH TO INVERT	2.175	2.157	2.235	1.697	1.667	1.617	1.617	1.675	1.675	1.668	1.638	1.399	1.399	1.328					
SEWER INVERT LEVEL	56.387	57.089	57.011	57.575	57.605	57.756	57.756	58.319	58.319	58.572	58.602	59.036	59.036	59.124					
DESIGN SURFACE LEVEL	58.562	59.247	59.247	59.272	59.272	58.374	58.374	59.994	59.994	60.240	60.240	60.435	60.435	60.451					
EXISTING SURFACE LEVEL	62.361	64.010	64.010	63.144	63.144	62.661	62.661	61.443	61.443	61.469	61.469	61.795	61.795	61.838					
SETOUT	E-492504.883	E-492514.719	N6992937.741	E-492503.959	N6992938.268	E-492498.583	N6992930.471	E-492477.410	N6992882.816	E-492467.521	N6992880.671	E-492455.404	N6992878.057	E-492452.911					
RUNNING CHAINAGE	80.188	21.270	101.458	113.595	6.060	119.555	22.515	142.169	10.119	152.289	12.396	164.684	2.501	167.185					

LINE NUMBER LINE 2

STRUCTURE TYPE & DROP	MS																		
STRUCTURE LID TYPE	D																		
JUNCT. LINE No.																			
JUNCT. DROP TYPES																			
DEPTH TO HC																			
HC INVERT LEVEL																			
HC TYPE																			
HC LOT No.																			
CH FROM DS STRUCTURE																			

STRUCTURE TYPES
 C2 = CAST-IN-SITU 1.500Ø
 P2 = PRE-CAST CONCRETE 1.050Ø
 MS = uPVC TYPE 'G' MAINTENANCE SHAFT
 MH DROP TYPES:
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 MS DROP TYPES:
 MS-V = 30mm DROP THROUGH BULB
 MS-Z = >750mm DROP INTO RISER
 LID TYPES
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 D = TRAFFICABLE
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EMBEDMENT NOTE:
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 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.

LAND USE
 PIPE DIA & TYPE
 PIPE GRADE (1 in x)
 EMBEDMENT
 DATUM RL(m)

JUNCTION INVERT LEVEL																			
DEPTH TO INVERT	1.244	1.244	1.545	1.515	2.895	2.815	50.115	2.895	2.815	2.895	2.815	2.895	2.815	2.895	2.815	2.895	2.815	2.895	2.815
SEWER INVERT LEVEL	47.867	47.867	47.883	47.913	50.035	50.115	50.115	50.035	50.115	50.035	50.115	50.035	50.115	50.035	50.115	50.035	50.115	50.035	50.115
DESIGN SURFACE LEVEL	49.110	49.110	49.428	49.428	52.930	52.930	52.930	49.110	49.110	49.428	49.428	49.110	49.110	49.428	49.428	49.110	49.110	49.428	49.428
EXISTING SURFACE LEVEL	49.555	49.555	50.110	50.110	54.156	54.156	54.156	49.555	49.555	50.110	50.110	49.555	49.555	50.110	50.110	49.555	49.555	50.110	50.110
SETOUT	E-492442.282	N6992978.481	E-492441.808	N6992975.519	E-492437.264	N6992947.130	E-492368.766	N6992958.095	E-492366.676	N6992945.042	E-492365.399	N6992937.069	E-492364.552	N6992933.059	E-492363.294	N6992929.112	E-492361.692	N6992925.386	E-492299.760
RUNNING CHAINAGE	0.000	3.000	3.000	28.750	31.750	69.370	101.120	13.219	114.339	8.074	122.414	4.099	126.513	4.143	130.555	4.056	134.711	0.000	77.517

LINE NUMBER LINE 3

STRUCTURE TYPE & DROP	P2																		
STRUCTURE LID TYPE	D																		
JUNCT. LINE No.																			
JUNCT. DROP TYPES	X																		
DEPTH TO HC																			
HC INVERT LEVEL																			
HC TYPE																			
HC LOT No.																			
CH FROM DS STRUCTURE																			

STRUCTURE TYPES
 C2 = CAST-IN-SITU 1.500Ø
 P2 = PRE-CAST CONCRETE 1.050Ø
 MS = uPVC TYPE 'G' 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

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.

LAND USE
 PIPE DIA & TYPE
 PIPE GRADE (1 in x)
 EMBEDMENT
 DATUM RL(m)

JUNCTION INVERT LEVEL																			
DEPTH TO INVERT	2.839	2.759																	
SEWER INVERT LEVEL	56.197	56.277																	
DESIGN SURFACE LEVEL	59.035	59.577																	
EXISTING SURFACE LEVEL	59.577	59.577																	
SETOUT	E-492299.760	N6992925.955																	
RUNNING CHAINAGE	0.000	72.517																	

LINE NUMBER LINE 4

I, Chris O'Sullivan for and on behalf of COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY. LTD. on 19.11.24 certify that:
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Signed *Chris O'Sullivan* ACR/MAJ 2018-0070

REV	DATE	DESIGN	DRAWN	ISSUED FOR APPROVAL	DRAWN	STATUS	SCALE	CLIENT	PROJECT NAME	DRAWING TITLE
1	14.11.24	SM	SM	ISSUED FOR APPROVAL	NP	NOT FOR CONSTRUCTION	1:500 1:1000 HORIZONTAL	SATTERLEY PROPERTY GROUP PTY LTD	RIDGEVIEW STAGE 13	SEWERAGE LONGITUDINAL SECTIONS 2 OF 4
					NP	APPROVED JAMES VONHOFF RPEQ 32647 DATE 14.11.24	1:100 1:200 VERTICAL	ASSOCIATED CONSULTANT COLLIERS PTY LTD (07) 3532 1300	RAYNBIRD ROAD NARANGBA	PROJECT No. 21-0249 DRAWING No. 305 REVISION 1

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

ALL WORKS ON EXISTING SEWER
 MAINS TO BE CARRIED OUT BY
 UNITYWATER AT THE DEVELOPER'S
 EXPENSE.

STRUCTURE NAME	1/4	2/4	E/4
STRUCTURE TYPE & DROP	D MS	G6	END
STRUCTURE LID TYPE	D	D	
JUNCT. LINE No.		17	90°
JUNCT. DROP TYPES			
DEPTH TO HC	1.152	0.888	1.039
HC INVERT LEVEL	58.228	59.591	61.221
HC TYPE	B	B	B
HC LOT No.	1327	1328	1329
CH FROM DS STRUCTURE	2.147	16.147	8.217

STRUCTURE TYPES
 C2 = CAST-IN-SITU 1.500Ø
 P2 = PRE-CAST CONCRETE 1.050Ø
 MS = uPVC TYPE 'G' 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

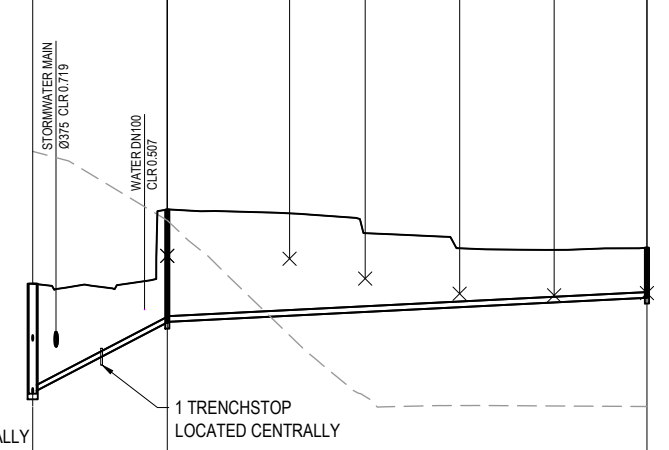
EMBEDMENT NOTE:
 PIPE EMBEDMENT & TRENCHFILL SHALL BE IN
 ACCORDANCE WITH SEQ-SEW-1200-2, 1201-1
 TO 1201-5. TYPE 3 SUPPORT IS PROPOSED
 UNTIL FINAL GEOTECHNICAL INVESTIGATIONS
 ARE COMPLETED PRIOR TO CONSTRUCTION.

LAND USE	PIPE DIA & TYPE	PIPE GRADE (1 in x)	EMBEDMENT DATUM RL(m)
	*150 uPVC SN8	1 IN 17.24	51.0
	*150 uPVC SN8	1 IN 10.00	

JUNCTION INVERT LEVEL	DEPTH TO INVERT	SEWER INVERT LEVEL	DESIGN SURFACE LEVEL	EXISTING SURFACE LEVEL	SETOUT	RUNNING CHAINAGE
	1.963	57.562	59.545	63.932	E-492236.959 N699292.613	72.517
	1.933	57.612	59.000	61.345	E-492216.234 N699297.179	23.931
	2.345	59.000	61.345	63.821	E-492209.118 N699297.287	96.447
	1.595	59.750	61.345	63.818	E-492209.118 N699297.287	8.217
	1.688	60.572	62.260	63.818	E-492209.118 N699297.287	104.664

LINE NUMBER LINE 4

STRUCTURE NAME	2/2	1/5	2/5
STRUCTURE TYPE & DROP	P2 X	MS	MS
STRUCTURE LID TYPE	D	D	D
JUNCT. LINE No.		47°	
JUNCT. DROP TYPES			
DEPTH TO HC		1.223	1.203
HC INVERT LEVEL		58.136	57.091
HC TYPE		B	A
HC LOT No.		1363	1367
CH FROM DS STRUCTURE		17.801	0.000



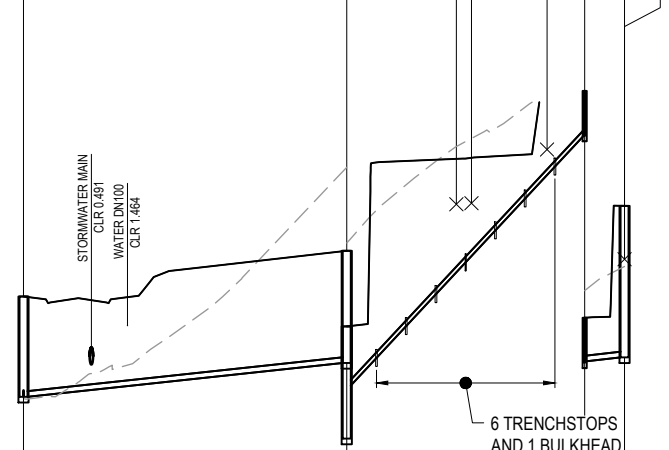
LAND USE	PIPE DIA & TYPE	PIPE GRADE (1 in x)	EMBEDMENT DATUM RL(m)
	*150 uPVC SN8	1 IN 9.94	48.0
	*150 uPVC SN8	1 IN 100.00	

JUNCTION INVERT LEVEL	DEPTH TO INVERT	SEWER INVERT LEVEL	DESIGN SURFACE LEVEL	EXISTING SURFACE LEVEL	SETOUT	RUNNING CHAINAGE
	2.909	54.490	57.399	60.898	E-492498.743 N699293.1451	0.000
	2.829	54.570	57.399	60.898	E-492498.743 N699293.1451	17.801
	2.999	56.361	59.360	59.073	E-492484.713 N699292.495	17.801
	2.969	56.391	59.360	59.073	E-492484.713 N699292.495	63.457
	1.326	57.025	58.361	54.150	E-492422.054 N699293.525	81.257

LINE 5

I, Chris O'Sullivan for and on behalf of COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY. LTD. on 19.11.24 certify that:
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 Signed Chris O'Sullivan
 ACR/MAJ 2018-0070

STRUCTURE NAME	2/1	1/6	2/6	3/6
STRUCTURE TYPE & DROP	P2 V	P2 X	MS	P2 V
STRUCTURE LID TYPE	D	D	D	D
JUNCT. LINE No.				
JUNCT. DROP TYPES				
DEPTH TO HC			1.201	1.411
HC INVERT LEVEL			56.500	61.047
HC TYPE			B	B
HC LOT No.			1334	1331
CH FROM DS STRUCTURE			14.500	5.276

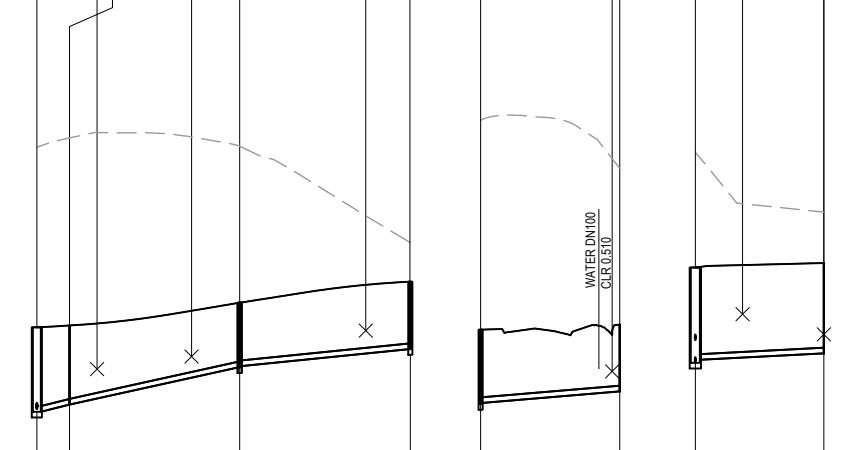


LAND USE	PIPE DIA & TYPE	PIPE GRADE (1 in x)	EMBEDMENT DATUM RL(m)
	*150 uPVC SN8	1 IN 47.77	43.0
	*150 uPVC PN12	1 IN 4.76	45.0
	*150 uPVC PN12	1 IN 50.00	51.0

JUNCTION INVERT LEVEL	DEPTH TO INVERT	SEWER INVERT LEVEL	DESIGN SURFACE LEVEL	EXISTING SURFACE LEVEL	SETOUT	RUNNING CHAINAGE
	2.654	49.407	52.060	55.478	E-492217.552 N699295.612	0.000
	2.654	49.407	52.060	55.478	E-492217.552 N699295.612	42.760
	2.967	50.302	53.270	60.216	E-492275.329 N699300.365	42.760
	1.965	51.705	53.270	60.216	E-492275.329 N699300.365	31.473
	1.184	58.314	59.498	62.458	E-492244.252 N699307.344	74.233
	1.154	58.344	59.498	62.458	E-492244.252 N699307.344	5.276
	4.008	58.450	62.458	62.458	E-492238.042 N699308.179	79.509

LINE 6

STRUCTURE NAME	3/2	H/TP1/8	1/8	2/8	5/3	E/9	4/3	E/10
STRUCTURE TYPE & DROP	P2 V	HTP	MS	MS	MS	END	P2 X	END
STRUCTURE LID TYPE	D	D	D	D	D		D	
JUNCT. LINE No.								
JUNCT. DROP TYPES			-8°	-92°	-3.00			
DEPTH TO HC		1.207	1.210	1.211		0.961	1.300	1.888
HC INVERT LEVEL		58.140	58.473	59.168		55.078	54.592	54.658
HC TYPE		B	B	B		B	B	A
HC LOT No.		1306	1305	1304		1369	1348	1349
CH FROM DS STRUCTURE		3.649	16.149	16.683		17.393	6.250	17.000



LAND USE	PIPE DIA & TYPE	PIPE GRADE (1 in x)	EMBEDMENT DATUM RL(m)
	*150 uPVC SN8	1 IN 22.82	51.0
	*150 uPVC SN8	1 IN 22.82	52.0
	*150 uPVC SN8	1 IN 50.00	

JUNCTION INVERT LEVEL	DEPTH TO INVERT	SEWER INVERT LEVEL	DESIGN SURFACE LEVEL	EXISTING SURFACE LEVEL	SETOUT	RUNNING CHAINAGE
	2.157	57.011	59.247	64.010	E-492514.719 N699298.882	0.000
	2.235	57.011	59.247	64.010	E-492514.719 N699298.882	4.318
	2.094	57.201	59.295	64.256	E-492518.545 N699290.885	4.318
	2.094	57.201	59.295	64.256	E-492518.545 N699290.885	22.515
	1.709	58.188	59.897	64.033	E-492536.941 N6992913.865	26.833
	1.679	58.218	59.897	64.033	E-492536.941 N6992913.865	22.574
	1.783	58.669	60.452	61.486	E-492553.479 N6992929.231	49.408
	1.969	54.215	56.183	61.720	E-492366.676 N6992945.042	0.000
	1.939	54.245	56.183	61.720	E-492366.676 N6992945.042	18.401
	1.767	54.551	56.318	60.450	E-492383.603 N699297.823	18.401
	2.522	53.306	55.828	58.876	E-492368.766 N6992958.095	0.000
	2.442	53.386	55.828	58.876	E-492368.766 N6992958.095	17.000
	2.390	53.556	55.946	57.290	E-492371.433 N6992974.884	17.000

LINE 8 LINE 8 LINE 9 LINE 10

REV 1 DATE 14.11.24 DESIGN SM DRAWN SM ISSUED FOR APPROVAL	REVISION DETAILS	DRAWN NP STATUS NOT FOR CONSTRUCTION	APPROVED JAMES VONHOFF RPEQ 32647 DATE 14.11.24		SCALE 1:500 10 5 0 10 20 A1 1:1000 HORIZONTAL A3 1:100 2 1 0 2 4 A1 1:200 VERTICAL A3	CLIENT SATTERLEY PROPERTY GROUP PTY LTD	PROJECT NAME RIDGEVIEW STAGE 13	DRAWING TITLE SEWERAGE LONGITUDINAL SECTIONS 3 OF 4
		DRAWN NP DESIGN APPROVED JAMES VONHOFF FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD				ASSOCIATED CONSULTANT COLLIERS PTY LTD (07) 3532 1300	RAYNBIRD ROAD NARANGBA	PROJECT No. 21-0249 DRAWING No. 306 REVISION 1

ALL WORKS ON EXISTING SEWER MAINS TO BE CARRIED OUT BY UNITYWATER AT THE DEVELOPER'S EXPENSE.

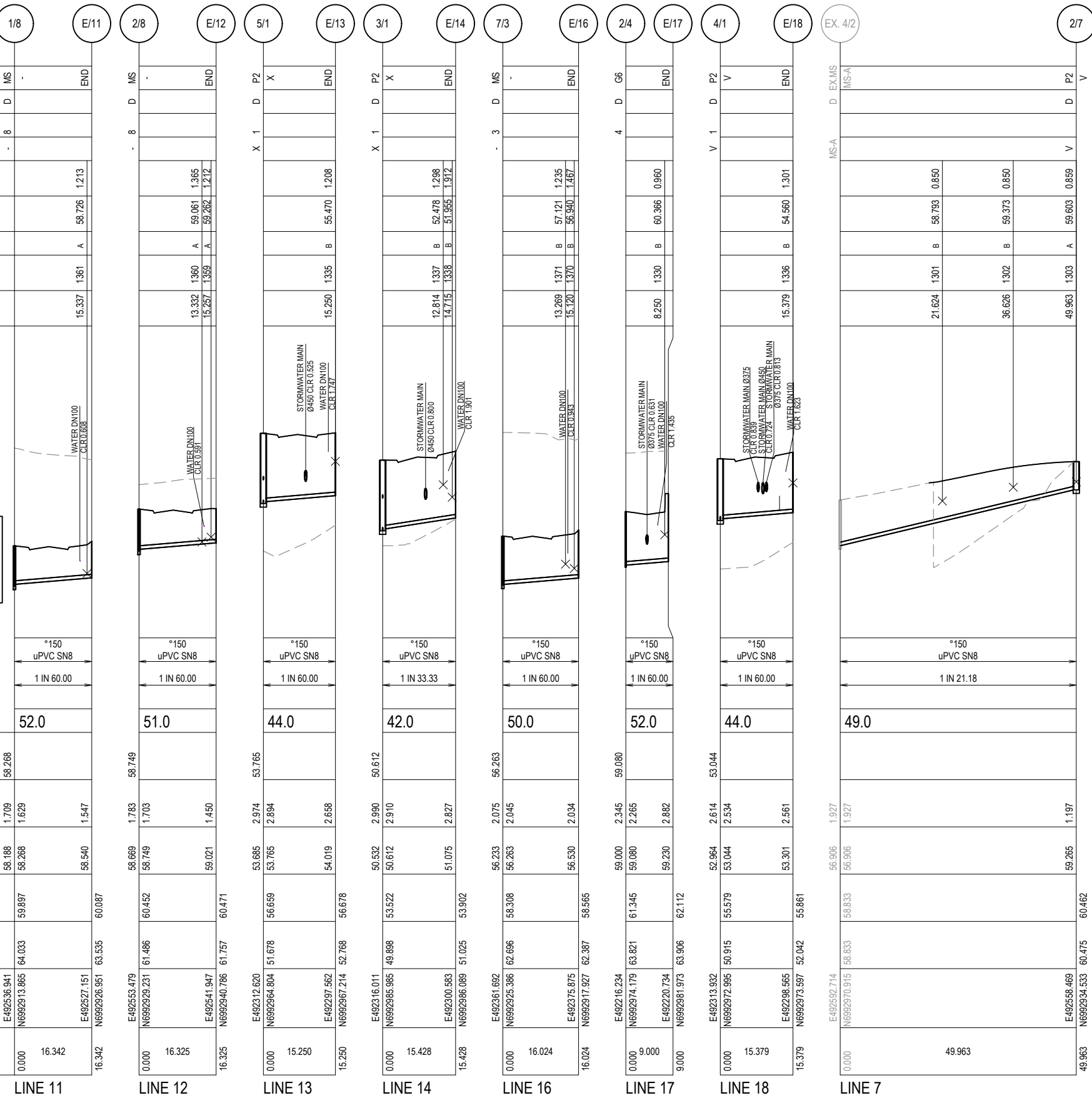
STRUCTURE NAME	STRUCTURE TYPE & DROP	STRUCTURE LID TYPE	JUNCT. LINE No.	JUNCT. DROP TYPES	DEPTH TO HC	HC INVERT LEVEL	HC TYPE	HC LOT No.	CH FROM DS STRUCTURE
	MS	D	8			58.726	A	1361	15.337
	MS	D	8						
	P2	X	1			59.061	A	1360	13.332
	P2	X	1			59.262	A	1369	15.257
	P2	X	1			55.470	B	1335	15.250
	P2	X	1			52.478	B	1337	12.814
	P2	X	1			51.955	B	1338	14.715
	MS	D	3			57.121	B	1371	13.269
	MS	D	3			56.940	B	1370	15.120
	G6	D	4			60.366	B	1330	8.250
	P2	V	1			54.560	B	1336	15.379
	MS-A	D	EX. 4/2						
	P2	V	1			59.603	A	1303	49.963

STRUCTURE TYPES
 C2 = CAST-IN-SITU 1.500Ø
 P2 = PRE-CAST CONCRETE 1.050Ø
 MS = uPVC TYPE 'G' 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

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.

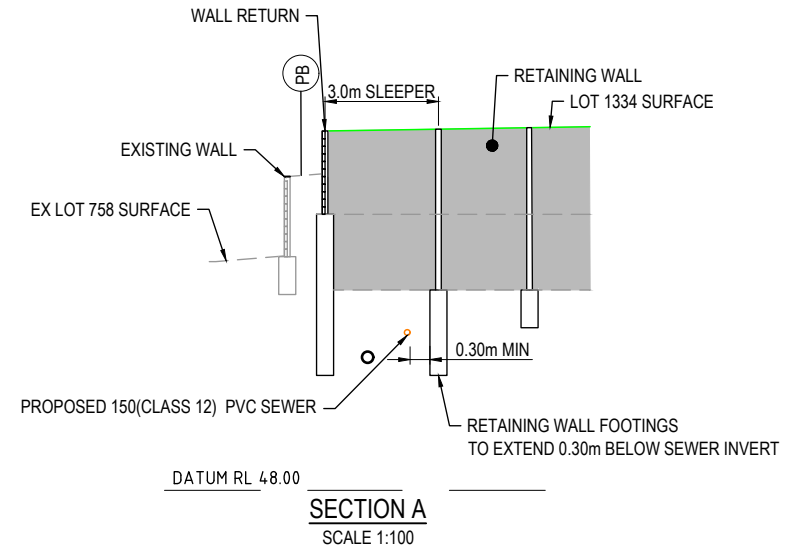
LAND USE
 PIPE DIA & TYPE
 PIPE GRADE (1 in x)
 EMBEDMENT
 DATUM RL(m)

JUNCTION INVERT LEVEL	58.288	58.749	53.765	50.612	56.263	59.080	53.044	59.265
DEPTH TO INVERT	1.709	1.703	2.974	2.990	2.075	2.614	2.534	2.561
SEWER INVERT LEVEL	58.188	58.749	53.685	50.612	56.263	52.964	53.044	53.301
DESIGN SURFACE LEVEL	59.897	60.452	56.659	53.522	58.308	55.579	58.833	58.833
EXISTING SURFACE LEVEL	64.033	61.486	51.678	49.898	62.696	50.915	58.833	58.833
SETOUT	E492536.941 N6992913.865	E492541.947 N6992940.768	E492312.620 N6992964.804	E492316.011 N6992995.985	E492361.692 N6992975.386	E492216.234 N6992974.179	E492313.932 N6992972.965	E492298.665 N6992973.697
RUNNING CHAINAGE	0.000 16.342	0.000 16.325	0.000 15.250	0.000 15.428	0.000 16.024	0.000 16.024	0.000 15.379	0.000 15.379



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Signed Chris O'Sullivan ACR/MAJ 2018-0070



LEGEND

- PROPOSED AREA OF WORKS
- PROPOSED 100Ø PVC-O WATER MAIN
- - - EXISTING WATER MAIN
- PROPOSED WATER CONDUIT
- - - EXISTING WATER CONDUIT
- HP LP HIGH POINT / LOW POINT
- INDICATIVE DRIVEWAY LOCATION
- ZERO LOT BOUNDARY
- - - PROPOSED STORMWATER DRAINAGE PIPE
- - - EXISTING STORMWATER DRAINAGE PIPE
- - - PROPOSED SEWER MAIN
- - - EXISTING SEWER MAIN
- - - PROPOSED ELECTRICAL CABLE U/G
- - - EXISTING ELECTRICAL CABLE U/G

WATER FITTINGS LEGEND

- PROPOSED:
- FH FIRE HYDRANT
 - X— ISOLATION VALVE
 - x— WATER SERVICE POINT
- EXISTING:
- FIRE HYDRANT
 - X- ISOLATION VALVE
 -] DEAD END
 - x- WATER SERVICE POINT

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.

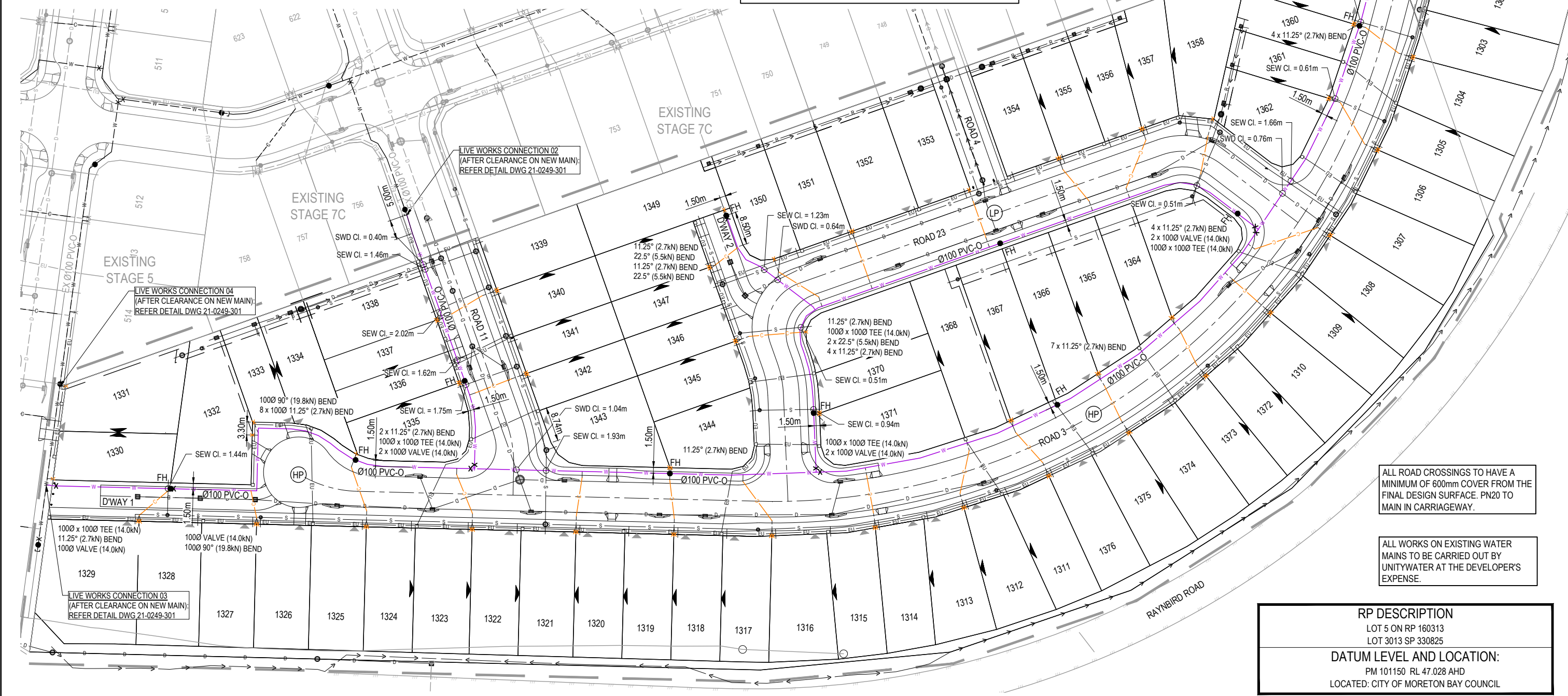
NOTE:

- WATER MAINS MUST CROSS OVER SERVICES WITH MINIMUM COVER PER SEQ CI. 7.2.4. 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.

I, Chris O'Sullivan for and on behalf of COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY. LTD. on 18.11.2024 certify that:

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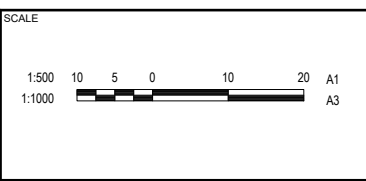
ALL ROAD CROSSINGS TO HAVE A MINIMUM OF 600mm COVER FROM THE FINAL DESIGN SURFACE. PN20 TO MAIN IN CARRIAGEWAY.

ALL WORKS ON EXISTING WATER MAINS TO BE CARRIED OUT BY UNITYWATER AT THE DEVELOPER'S EXPENSE.

RP DESCRIPTION
 LOT 5 ON RP 160313
 LOT 3013 SP 330825
DATUM LEVEL AND LOCATION:
 PM 101150 RL 47.028 AHD
 LOCATED: CITY OF MORETON BAY COUNCIL

REV	DATE	DESIGN	DRAWN	REVISION DETAILS
1	14.11.24	SM	SM	ISSUED FOR APPROVAL

DRAWN	STATUS	NOT FOR CONSTRUCTION	
NP			
DESIGN	APPROVED	JAMES VONHOFF	RPEQ 32647
NP		<i>Vonhoff</i>	DATE 14.11.24
FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD			



CLIENT
SATTERLEY PROPERTY GROUP PTY LTD

ASSOCIATED CONSULTANT
 COLLIER'S PTY LTD
 (07) 3532 1300

PROJECT NAME
RIDGEVIEW STAGE 13

RAYBIRD ROAD
 NARANGBA

DRAWING TITLE		
WATER RETICULATION LAYOUT PLAN		
PROJECT No.	DRAWING No.	REVISION
21-0249	308	1

- LEGEND**
- PROPOSED AREA OF WORKS
 - PROPOSED WATER MAIN
 - EXISTING WATER MAIN
 - INDICATIVE DRIVEWAY LOCATION
 - HIGH POINT / LOW POINT

- WATER FITTINGS LEGEND**
- PROPOSED:
- FIRE HYDRANT
 - ISOLATION VALVE (STOP VALVE)
- EXISTING:
- FIRE HYDRANT



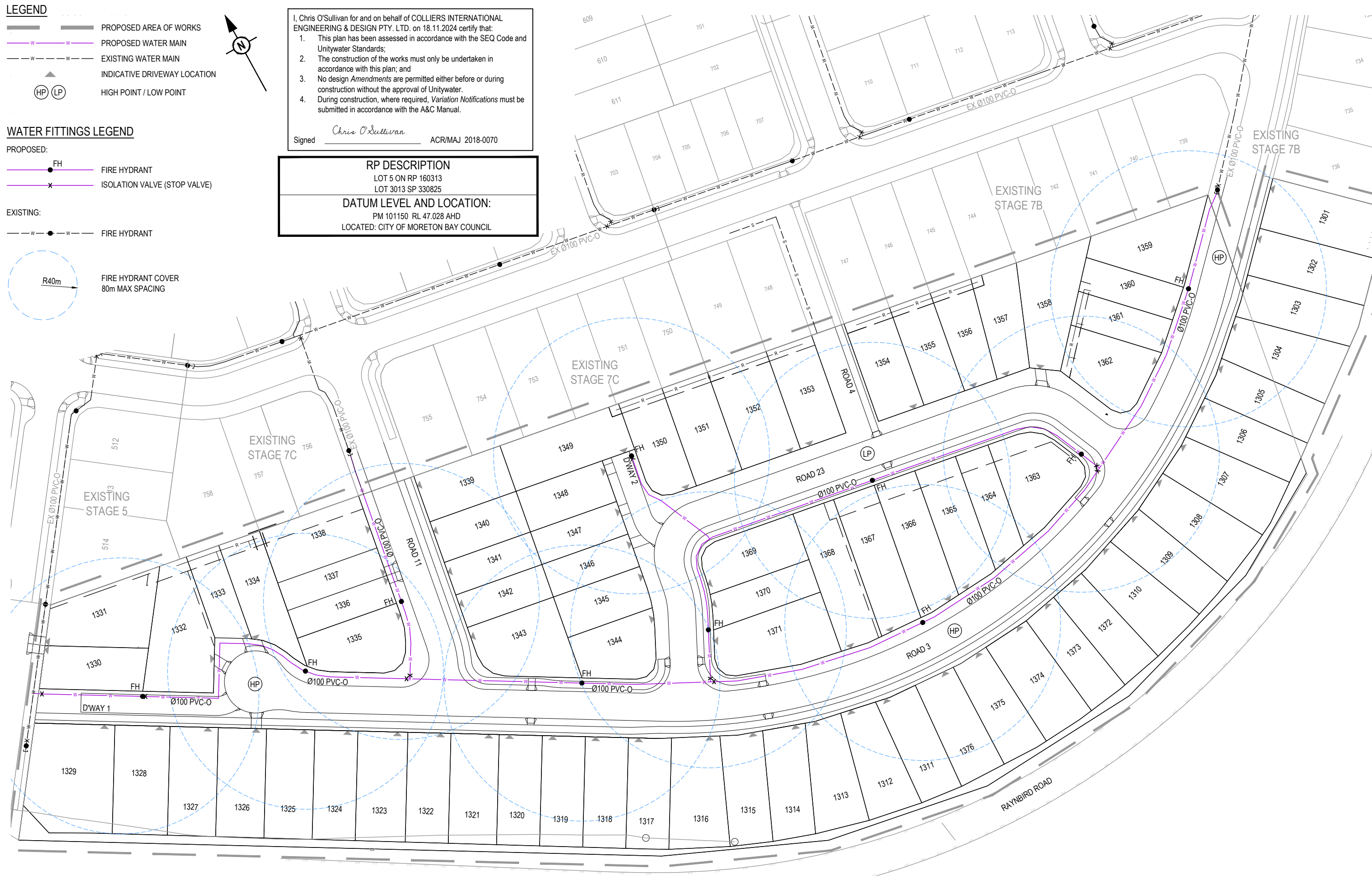
I, Chris O'Sullivan for and on behalf of COLLIERS INTERNATIONAL ENGINEERING & DESIGN PTY. LTD. on 18.11.2024 certify that:

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Signed *Chris O'Sullivan* ACR/MAJ 2018-0070

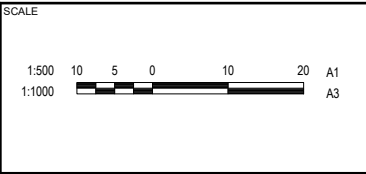
RP DESCRIPTION
LOT 5 ON RP 160313
LOT 3013 SP 330825

DATUM LEVEL AND LOCATION:
PM 101150 RL 47.028 AHD
LOCATED: CITY OF MORETON BAY COUNCIL



REV	DATE	DESIGN	DRAWN	REVISION DETAILS
1	14.11.24	SM	SM	ISSUED FOR APPROVAL

DRAWN	STATUS	NOT FOR CONSTRUCTION	
NP			
DESIGN	APPROVED	JAMES VONHOFF	RPEQ 32647
NP	DATE	14.11.24	



CLIENT
SATTERLEY PROPERTY GROUP PTY LTD

ASSOCIATED CONSULTANT
COLLIERS PTY LTD
(07) 3532 1300

PROJECT NAME
RIDGEVIEW STAGE 13

RAYBIRD ROAD
NARANGBA

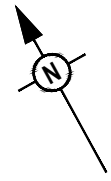
WATER HYDRANT REACH LAYOUT PLAN		
PROJECT No.	DRAWING No.	REVISION
21-0249	309	1

I, Chris O'Sullivan for and on behalf of COLLIERS INTERNATIONAL ENGINEERING & DESIGN PTY. LTD. on 18.11.2024 certify that:

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Signed Chris O'Sullivan ACR/MAJ 2018-0070

- LEGEND**
- PROPOSED AREA OF WORKS
 - PROPOSED SEWER MAIN
 - PROPOSED WATER MAIN 100 DIA PVC-O
 - - - EXISTING SEWER MAIN
 - - - EXISTING WATER MAIN
 - - - PROPOSED RETAINING WALL
 - INDICATIVE DRIVEWAY LOCATION
 - ZERO LOT BOUNDARY



REV	DATE	DESIGN	DRAWN	ISSUED FOR APPROVAL	REVISION DETAILS
1	14.11.24	SM	SM		

DRAWN	STATUS	NOT FOR CONSTRUCTION
NP		
DESIGN	APPROVED	
NO	JAMES VONHOFF	RPEQ 32647
	<i>Vonhoff</i>	DATE 14.11.24
FOR AND ON BEHALF OF COLLIERS INTERNATIONAL ENGINEERING & DESIGN PTY LTD		



SCALE

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

CLIENT

SATTERLEY PROPERTY GROUP PTY LTD

ASSOCIATED CONSULTANT

COLLIERS PTY LTD
(07) 3532 1300

PROJECT NAME

RIDGEVIEW STAGE 13

RAYNBIRD ROAD
NARANGBA

DRAWING TITLE

WATER AND SEWER NETWORK LAYOUT PLAN

PROJECT No. **21-0249** DRAWING No. **310** REVISION **1**