

GENERAL NOTES

1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT SOUTH EAST QUEENSLAND SEWERAGE CODE SPECIFICATIONS AND STANDARDS.
2. UNLESS SPECIFIED OTHERWISE ALL MATERIALS AND WORK SHALL COMPLY WITH THE RELEVANT AUSTRALIAN STANDARDS.
3. THE CONSTRUCTION OF THE SEWERAGE WORK SHOWN ON THIS DRAWING SHALL BE SUPERVISED BY AN ENGINEER WHO HAS RPEQ REGISTRATION. SEWERAGE WORKS NOT COMPLYING WITH THIS REQUIREMENT WILL NOT BE PERMITTED TO CONNECT INTO THE SEQ SERVICE PROVIDER SEWERAGE SYSTEM.
4. ALL WORK ASSOCIATED WITH LIVE SEWERS OR MAINTENANCE HOLES SHALL BE CARRIED OUT BY THE SEQ SERVICE PROVIDER AT THE DEVELOPER'S COST.
5. ALL PIPES AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE "ACCEPTED PRODUCTS AND MATERIALS" LIST.
6. EACH ALLOTMENT SHALL BE SERVED BY A DN110 PE PROPERTY CONNECTION. FOR ALLOTMENTS OTHER THAN SINGLE RESIDENTIAL, A DN160 PE PROPERTY CONNECTION SHALL BE PROVIDED.
7. PROPERTY CONNECTIONS SHALL BE LOCATED WITHIN THE PROPERTY AS SHOWN IN THE DRAWINGS.
8. PROPERTY CONNECTION BRANCHES SHALL EXTEND INTO THE PROPERTY A MINIMUM OF 300mm AND A MAXIMUM OF 750mm.
9. 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.
10. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF EXISTING SERVICES WITH RELEVANT AUTHORITIES BEFORE COMMENCING WORKS.
11. BENCH MARK AND LEVELS TO AHD.
12. CONSTRUCT EMBEDMENT AND TRENCHFILL TO SEQ-SEW-1200-2, 1201-1 TO 1205-1 (TYPE 3 SUPPORT MINIMUM) AND BCC STANDARDS FOR ROADWAYS.
13. CONSTRUCT BULKHEADS & TRENCHSTOPS TO SEQ-SEW-1206-1 AND TRENCH DRAINS TO SEQ-SEW-1207-1.
14. CONSTRUCT MHs TO SEQ-SEW-1301-1, 1301-2 & 1301-3 (TYPE G), 1301-4 & 1301-5 (TYPE F), 1304-1, 1305-1, 1307-4 (STUB CUT-IN), 1313-1 (CONNECTION) AND 1301-12 (LADDERS).
15. CONSTRUCT MSs TO SEQ-SEW-1315-1 AND 1316-1 AND 1502-1 (INSERT MS).
16. INSTALL MH/MS TYPE B COVERS TO SEQ-SEW-1308-2 TO 1308-7.
17. INSTALL MH/MS TYPE D COVERS TO SEQ-SEW-1308-8 TO 1308-11.
18. CONSTRUCT PROPERTY CONNECTIONS TO SEQ-SEW-1106-1 TO 1106-6.
19. INSTALL DETECTABLE MARKER TAPE ON ALL SEWER MAINS AND PROPERTY CONNECTIONS.
20. THE REQUIREMENTS FOR PE LINING OF MANHOLES MUST BE NOTED WHERE REQUIRED IN SEQ CODE CLAUSE 4.7.2 AND 18.8.
21. CONCRETE FOR MH CONSTRUCTION SHALL BE SPECIAL CLASS TO WSA PS-358 WITH REQUIREMENTS FOR CALCEOUS AGGREGATE.

ALL ENVIRONMENT PROTECTION MEASURES SHOULD BE IMPLEMENTED PRIOR TO COMMENCING ANY CONSTRUCTION WORK, INCLUDING CLEARING.

ENVIRONMENTAL CONDITIONS

VEGETATION PROTECTION

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

SOIL

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

CREEK CROSSINGS

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

REHABILITATION

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

SAFETY

- A. THE DESIGN AND CONSTRUCTION OF THE WORKS SHALL COMPLY WITH ALL QUEENSLAND LEGISLATION.

NOTE:
* THE WATER AND SEWER DESIGN HAS BEEN PREVIOUSLY CERTIFIED BY CLA CONSULTANTS AND APPROVED BY URBAN UTILITIES. THIS CERTIFICATION IS TO CONFIRM THE AS-CONSTRUCTED INFORMATION ONLY.

72 ACACIA ROAD KARAWATHA				
COUNCIL REFERENCE NUMBER		A0040303380		
QUU FILE REFERENCE		18-PNT-33630	18-PNT-36331	
APPROVAL DATE	08/08/2018			
STAGE	1	2	3	
NO. OF LOTS	22	48	4	
AREA IN HA.	1.95	3.99	0.24	
LENGTH OF SEWER	DN110	0.00m	0.00m 104.00m	0.00m
	DN160	387.00m	723.00m 599.00m	0.00m

ENGINEER'S CERTIFICATION

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[Signature]
RPEQ (signature) RPEQ No. 12329 Date: 10/02/2021

		LEGEND				
		NEW	EXISTING	DISUSED		
GRAVITY SEWER				WATER MAIN		
SEWER RISING MAIN				STORMWATER DRAINAGE		
MAINTENANCE HOLE AND END OF LINE				GAS MAIN		
MAINTENANCE SHAFT				ELECTRICITY U/G		
STUB/TEMPORARY END				ELECTRICITY O/H		
PROPERTY CONNECTION				TELECOMMUNICATION		
RODDING POINT				LIGHT POLE		
RISING MAIN DISCHARGE MAINTENANCE HOLE				ELECTRICITY/POWER POLE		
PROPERTY BOUNDARY ASSEMBLY/KIT				STORMWATER GULLY		
				PIT (TELECOM/ELEC)		
				BACK OF KERB		
				EASEMENT		
				CONTROL LEVEL	4.150 +	
				CONTOUR LEVEL	4.0	

AS CONSTRUCTED LEGEND

AS CONSTRUCTED SEWER

AS CONSTRUCTED SEWER STRUCTURE

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CLIENT
CHRIS & MOIRA SMIT

PROJECT
**72 ACACIA ROAD
KARAWATHA**

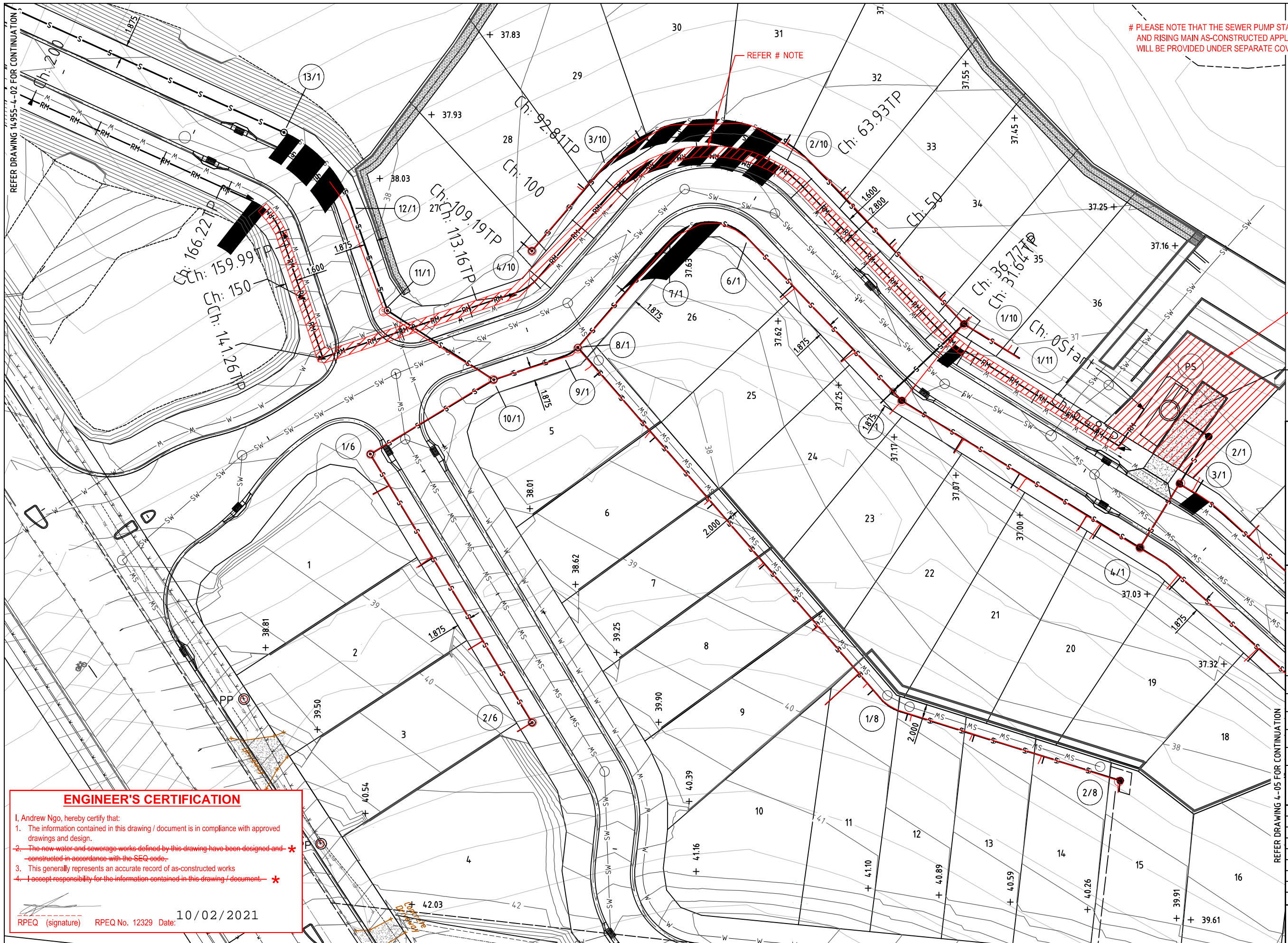
PROPERTY DESCRIPTION	LOT 1 RP54123
DESIGNED	RC LEONARD
DRAWN	ACAD
REVIEWED	CBL
DATE	10 APRIL 2016

APPROVED
**ORIGINAL SIGNATURE BY
CLA CONSULTANTS AS PER
DESIGN APPROVAL**

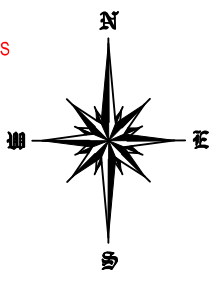
REV.	DESCRIPTION	BY	DATE	APPRD
E	ASCON	JW	18/09/20	
D	QUU RFI	RCL	13/03/19	CBL
C	STAGE 2	RCL	24/09/18	CBL
B	STAGE 2 OPW	RCL	18/06/18	CBL
A	FOR TENDER	RCL	20/12/17	CBL

NAME
**SEWERAGE GENERAL
NOTES AND
LOCALITY PLAN**

PROJECT REF.	DRAWING NO.	REVISION
14955	4-01	E



PLEASE NOTE THAT THE SEWER PUMP STATION AND RISING MAIN AS-CONSTRUCTED APPLICATIONS WILL BE PROVIDED UNDER SEPARATE COVER



REFER DRAWING 14-955-4-02 FOR CONTINUATION

REFER # NOTE

SEWER PUMP STATION SITE REFER DRAWING 04-14 FOR DETAILS

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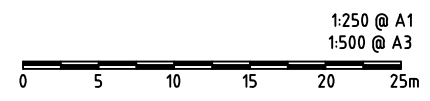
NAME
**STAGE 2 SEWERAGE
 PLAN
 SHEET 1 OF 2**

PROJECT REF.	DRAWING NO.	REVISION
14955	4-04	F

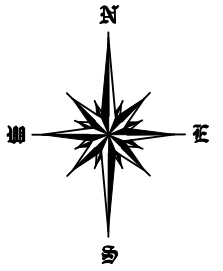
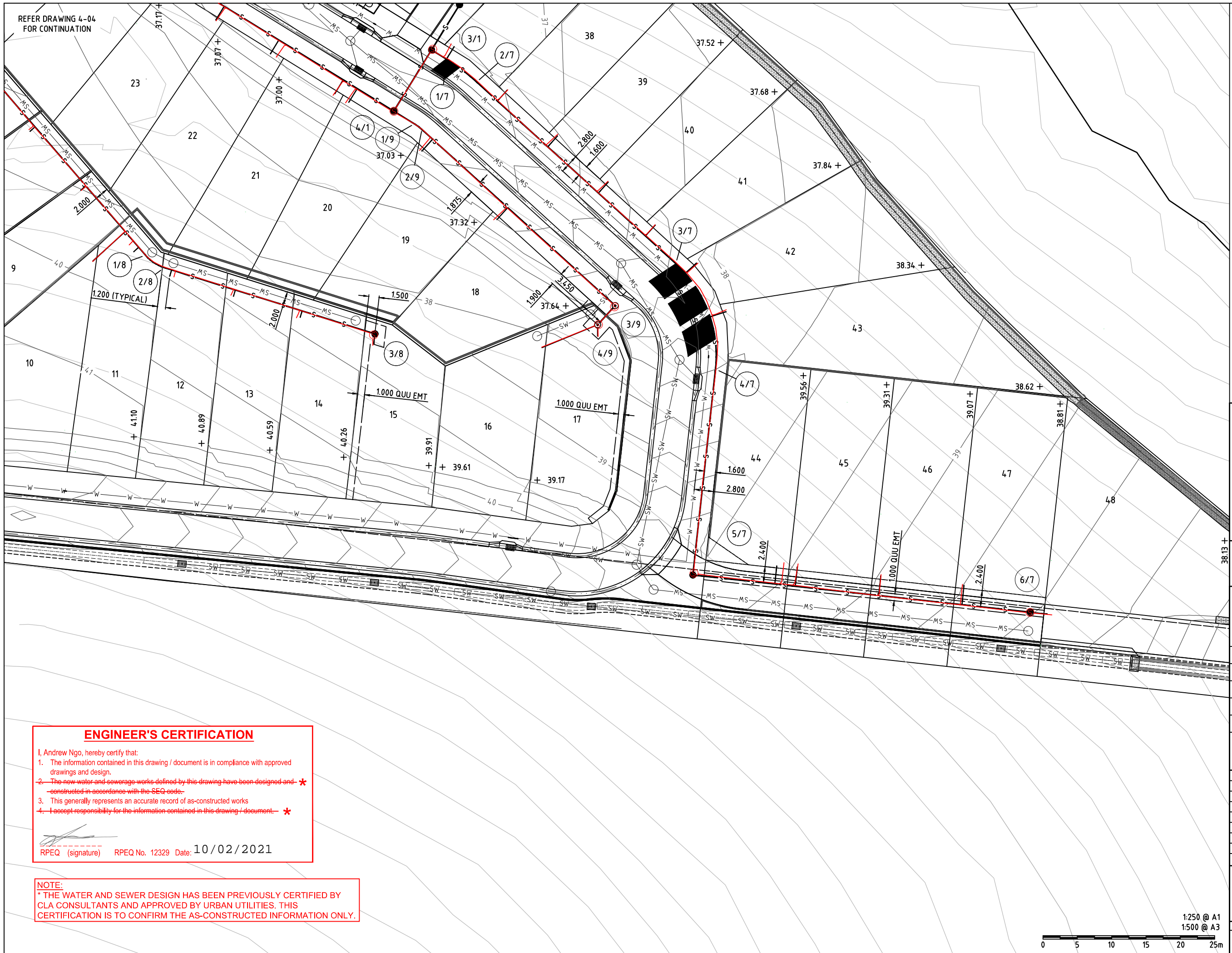
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[Signature]
 RPEQ (signature) RPEQ No. 12329 Date: 10/02/2021

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REFER DRAWING 4-05 FOR CONTINUATION



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A	FOR TENDER	RCL	20/12/17	CBL

NAME
**STAGE 2 SEWERAGE
 PLAN
 SHEET 2 OF 2**

PROJECT REF.	DRAWING NO.	REVISION
14955	4-05	F

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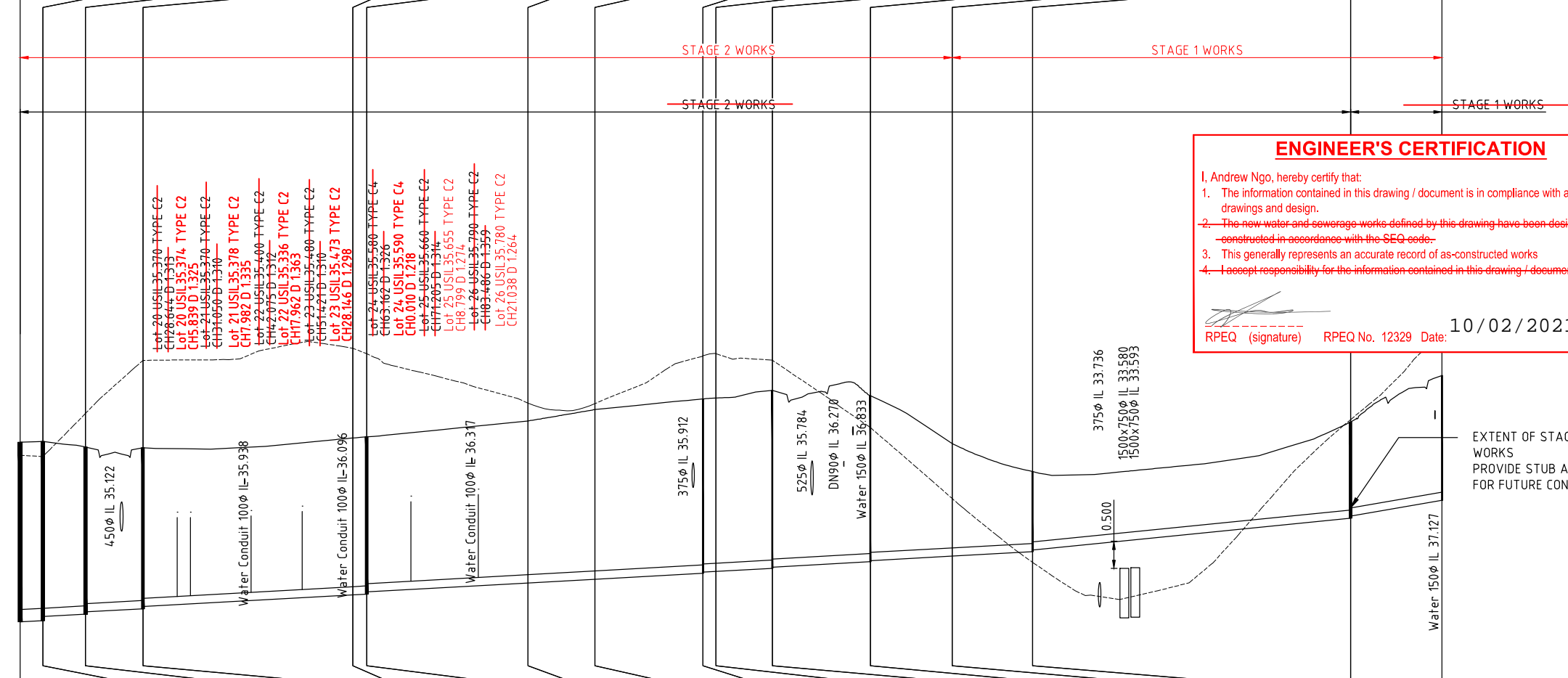
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1:250 @ A1
 1:500 @ A3



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STRUCTURE	PS	F MH	F MH	G MH	6.000R H.B. MH	7.300R H.B.	PE MS	6.000R H.B.	PE MS	PE MS	PE MS	17.900R H.B. MS	G MH	PE MS
MH/MS TYPE		F	F	G	G		PE	PE	PE	PE	PE	PE	G	PE
COVER TYPE		B	B	B	B		B	B	B	B	B	B	B	B
DROP TYPE		A	A	A	A		A	A	A	A	A	A	A	A



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DATUM RL 31.88																		
DIAMETER (mm)	DN250	DN160	DN160	DN160	DN160	DN160	DN160	DN160	DN160	DN160	DN160	DN160	DN160	DN160	DN160	DN160	DN160	DN160
CLASS	PE100 SDR21	PE100 SDR21	PE100 SDR21	PE100 SDR21	PE100 SDR21	PE100 SDR21	PE100 SDR21	PE100 SDR21	PE100 SDR21	PE100 SDR21	PE100 SDR21	PE100 SDR21	PE100 SDR21	PE100 SDR21	PE100 SDR21	PE100 SDR21	PE100 SDR21	PE100 SDR21
SLOPE/GRADE	0.56%	0.56%	0.75%	0.56%	0.57%	0.56%	0.56%	1.73%	0.56%	0.56%	1.38%	0.56%	0.61%	0.56%	0.52%	0.56%	1.00%	1.73%
EMBEDMENT TYPE	TYPE 3	TYPE 3	TYPE 3	TYPE 3	TYPE 3	TYPE 3	TYPE 3	TYPE 3	TYPE 3	TYPE 3	TYPE 3	TYPE 3	TYPE 3	TYPE 3	TYPE 3	TYPE 3	TYPE 3	TYPE 3
DEPTH (m)	3.275	3.311	2.996	2.992	2.859	2.875	2.864	3.158	3.158	3.141	3.269	3.233	2.866	3.007	1.900	1.450	1.757	2.274
INVERT LEVEL (m)	33.431	33.404	33.608	33.679	33.923	33.915	33.927	34.288	34.288	34.305	34.407	34.406	34.513	34.546	34.625	34.720	35.318	35.646
EXISTING SURFACE LEVEL	36.465	36.443	37.231	38.197	38.416	38.319	38.279	38.279	38.279	38.317	38.200	38.200	36.971	36.971	35.678	34.516	37.116	38.764
FINISHED SURFACE LEVEL	36.706	36.716	36.604	36.604	36.782	36.790	37.446	37.446	37.446	37.446	37.639	37.652	37.379	37.553	36.525	36.170	37.075	37.920
CHAINAGE	0.000	4.164	7.758	11.921	18.475	22.397	30.839	42.495	49.700	63.162	79.385	104.742	126.816	154.953	169.868	184.507	242.466	259.134

EXTENT OF STAGE 2 WORKS
 PROVIDE STUB AT IL 35.358 FOR FUTURE CONNECTION

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CLIENT
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PROJECT
**72 ACACIA ROAD
 KARAWATHA**

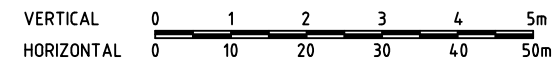
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DESIGNED	RC LEONARD
DRAWN	ACAD
REVIEWED	CBL
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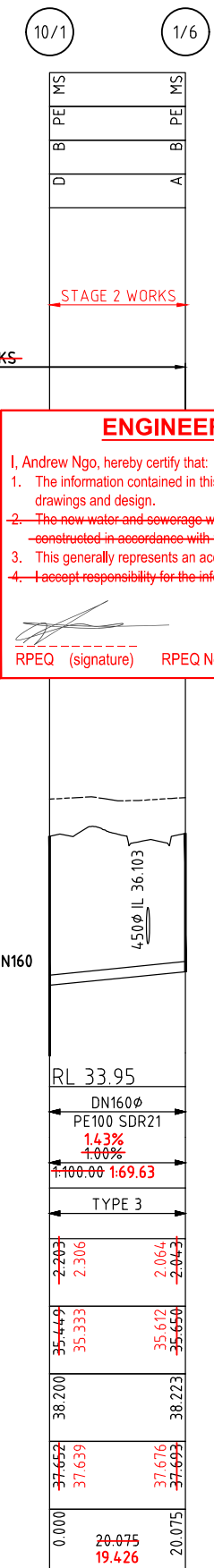
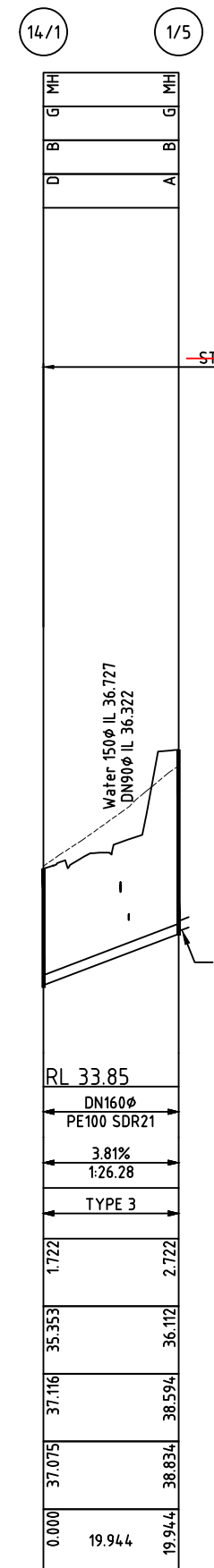
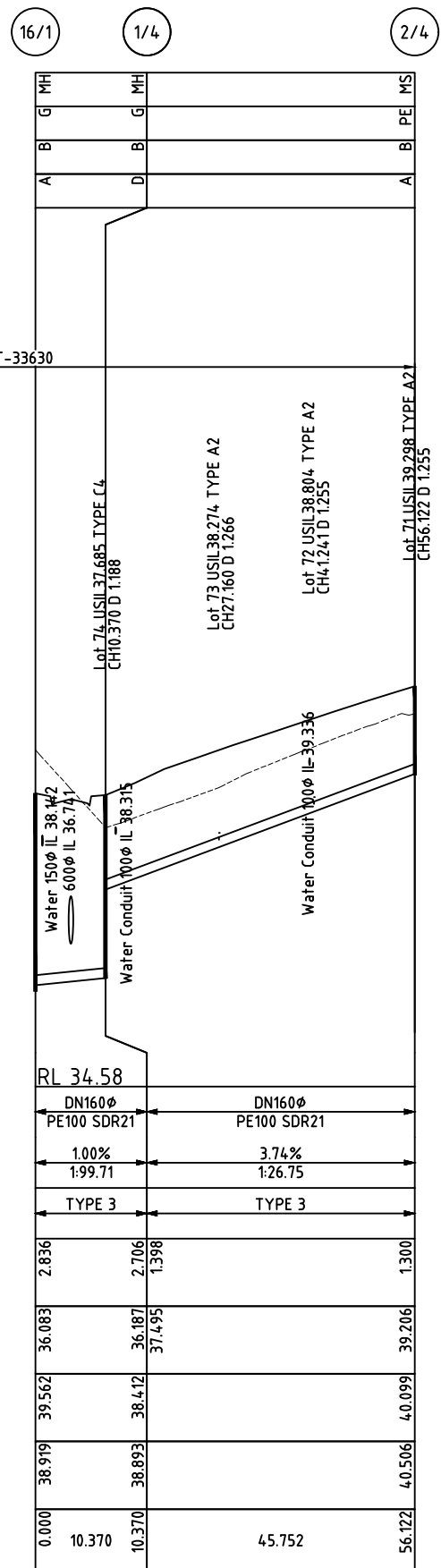
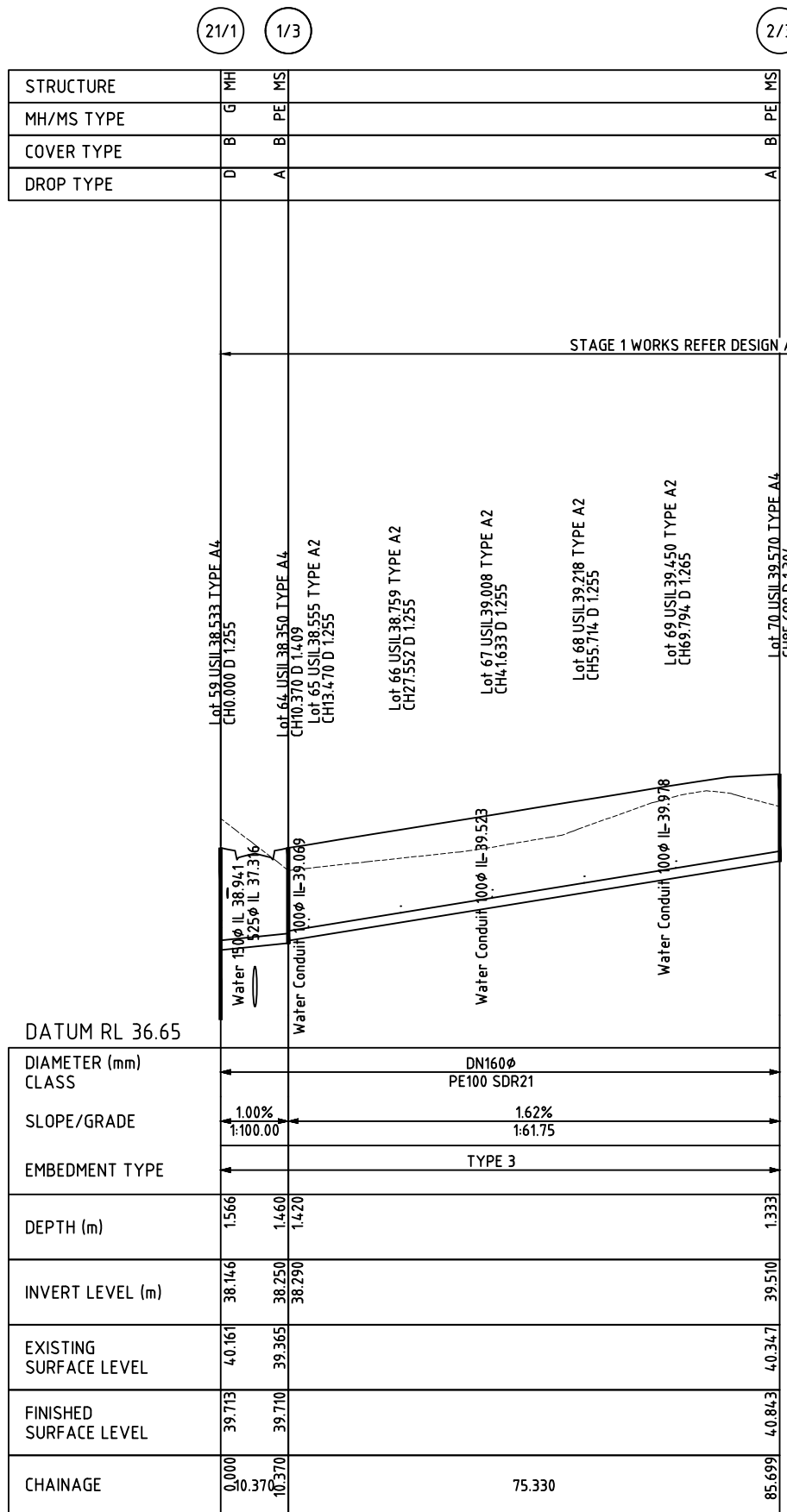
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A	FOR TENDER	RCL	20/12/17	CBL

NAME
**SEWER LONG
 SECTIONS
 SHEET 1 OF 6**

PROJECT REF.	DRAWING NO.	REVISION
14955	4-07	E



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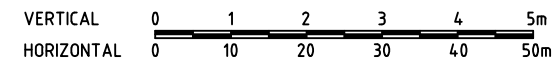
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NAME
**SEWER LONG
 SECTIONS
 SHEET 3 OF 6**


PROJECT REF.	DRAWING NO.	REVISION
14955	4-09	E



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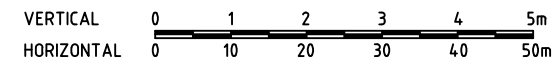
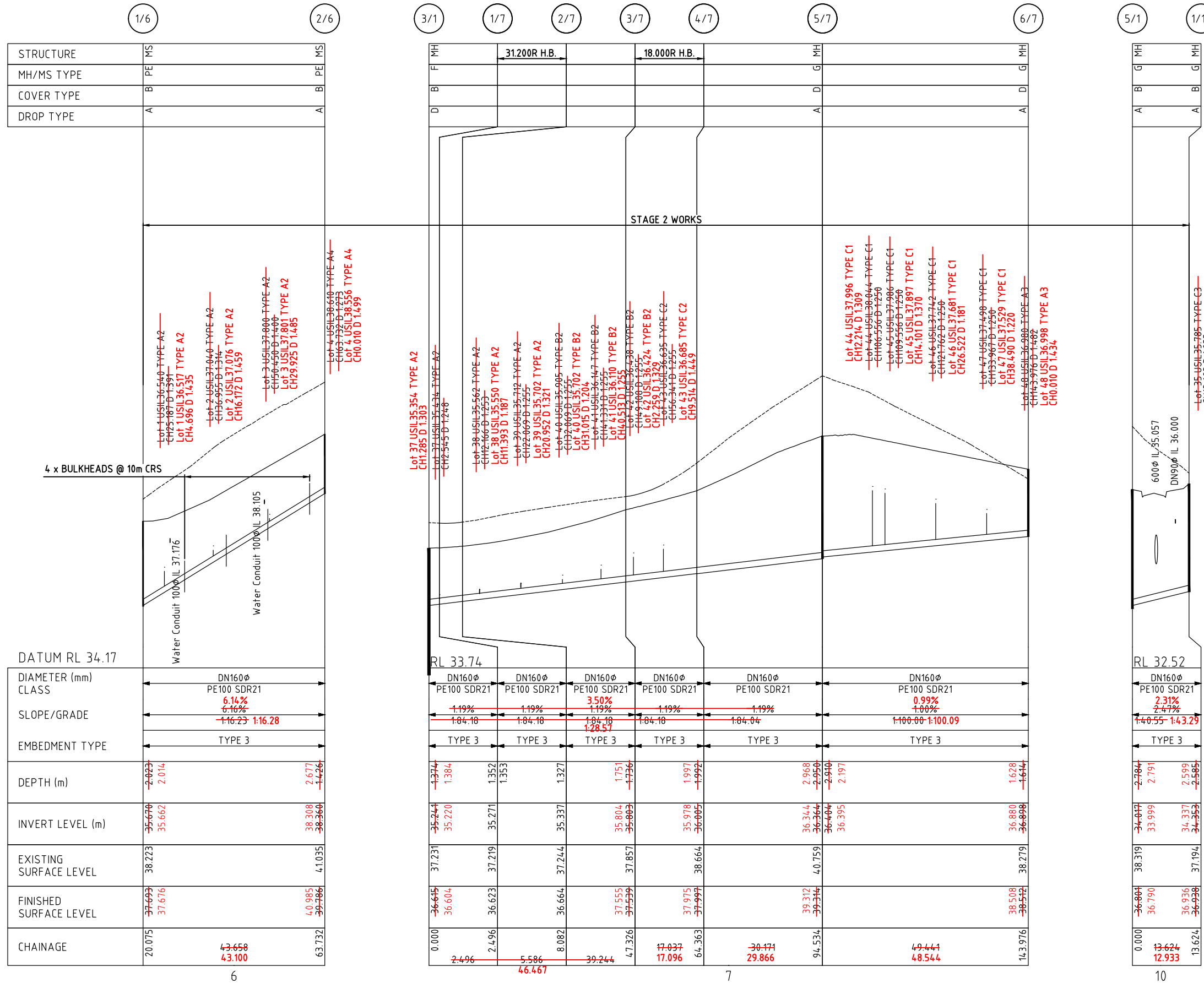
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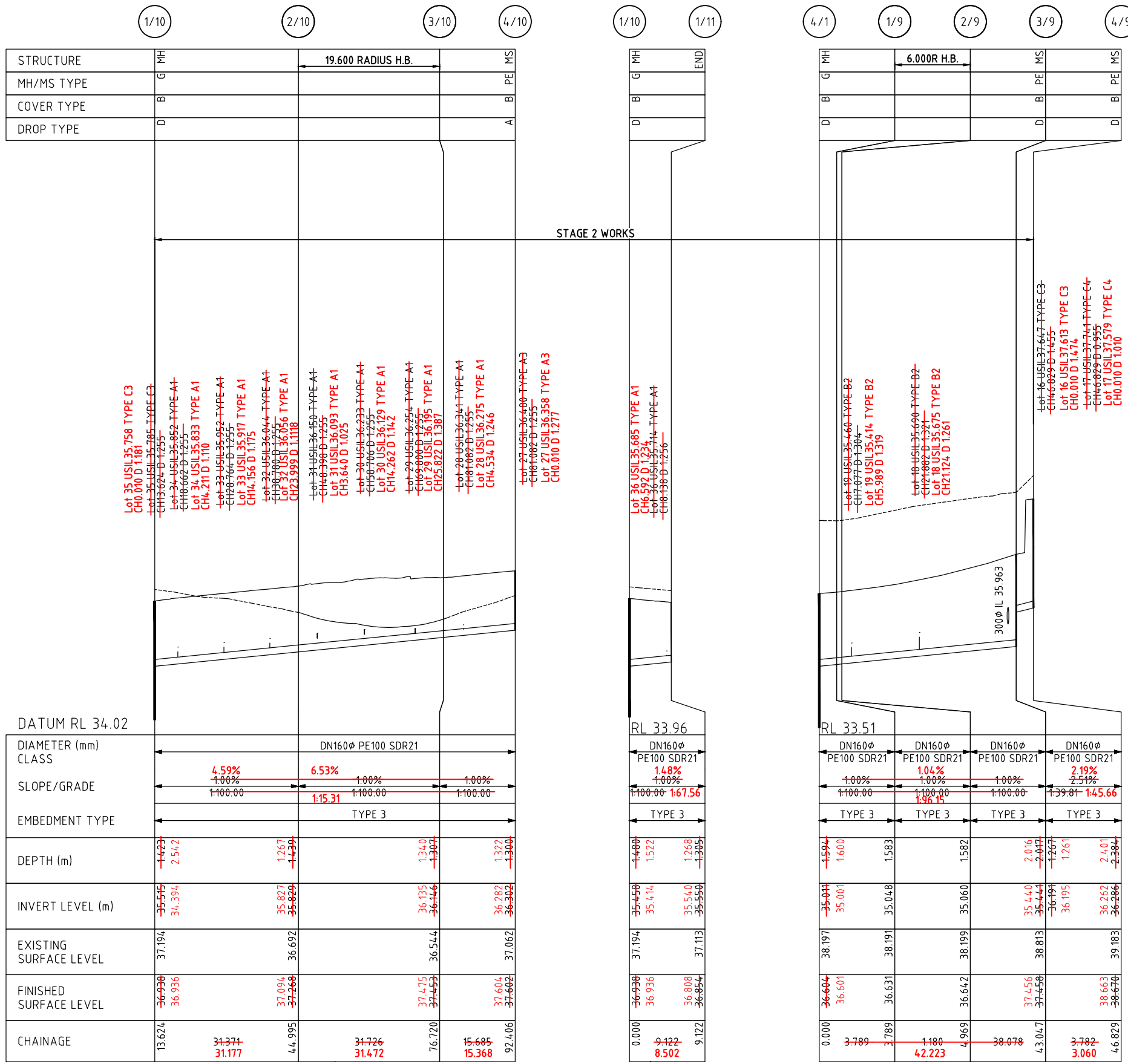
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NAME
**SEWER LONG
SECTIONS
SHEET 4 OF 6**

PROJECT REF.	DRAWING NO.	REVISION
14955	4-10	F

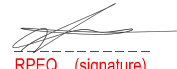




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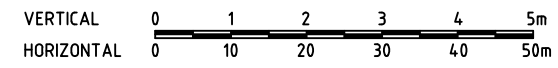
PROPERTY DESCRIPTION	LOT 1 RP54123
DESIGNED	RC LEONARD
DRAWN	ACAD
REVIEWED	CBL
DATE	10 APRIL 2016

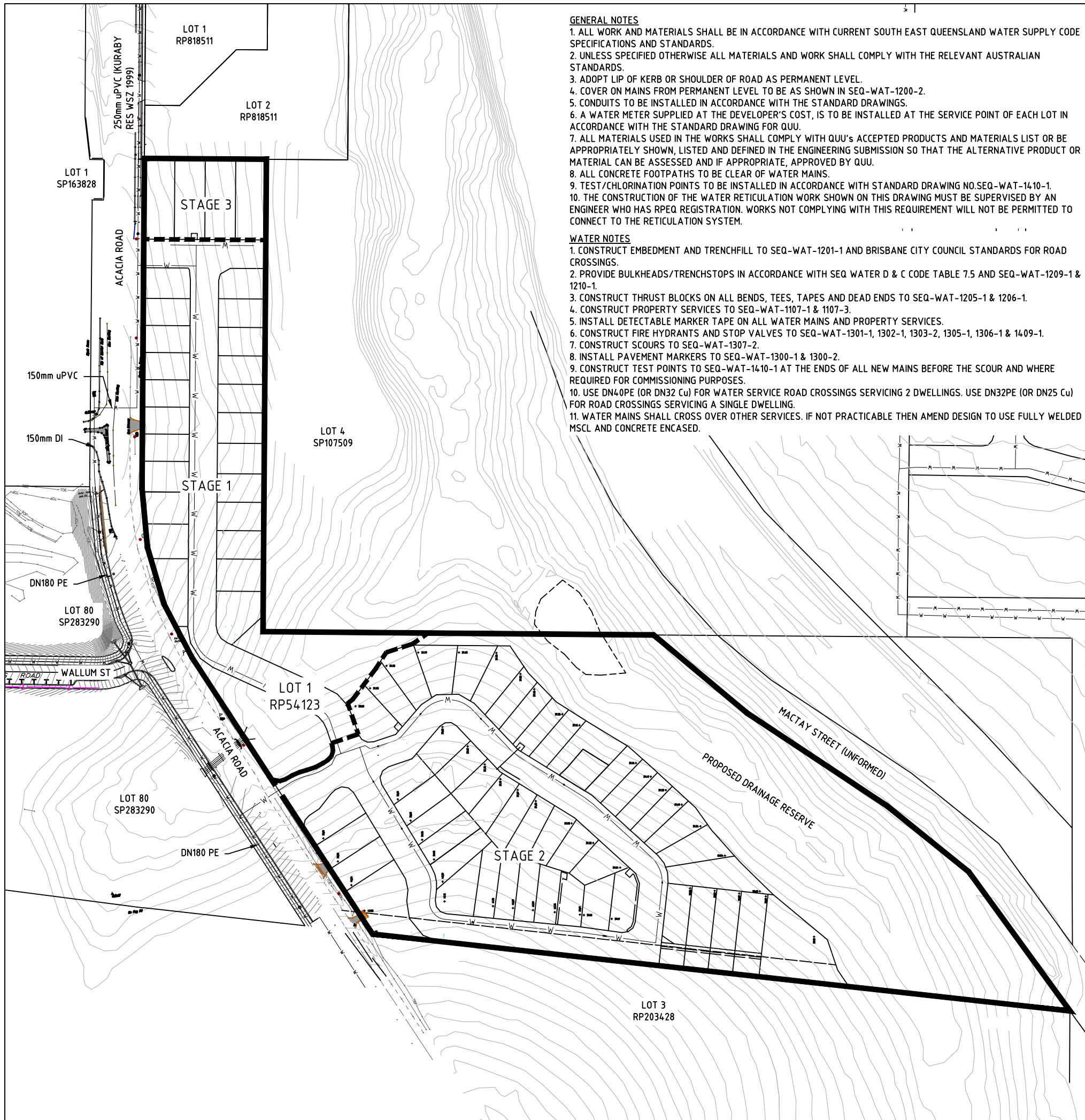
APPROVED
 ORIGINAL SIGNATURE BY
 CLA CONSULTANTS AS PER
 DESIGN APPROVAL

F	ASCON	JW	18/09/20	
E	QUU RFI	RCL	13/05/19	CBL
D	STAGE 2	RCL	24/09/18	CBL
C	QUU LODGE	RCL	29/06/18	CBL
B	STAGE 2 OPW	RCL	18/06/18	CBL
A	FOR TENDER	RCL	20/12/17	CBL

NAME
**SEWER LONG
 SECTIONS
 SHEET 5 OF 6**

PROJECT REF.	DRAWING NO.	REVISION
14955	4-11	F





GENERAL NOTES

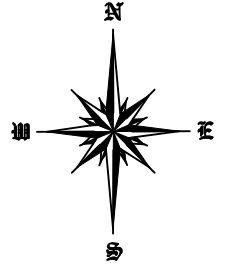
1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT SOUTH EAST QUEENSLAND WATER SUPPLY CODE SPECIFICATIONS AND STANDARDS.
2. UNLESS SPECIFIED OTHERWISE ALL MATERIALS AND WORK SHALL COMPLY WITH THE RELEVANT AUSTRALIAN STANDARDS.
3. ADOPT LIP OF KERB OR SHOULDER OF ROAD AS PERMANENT LEVEL.
4. COVER ON MAINS FROM PERMANENT LEVEL TO BE AS SHOWN IN SEQ-WAT-1200-2.
5. CONDUITS TO BE INSTALLED IN ACCORDANCE WITH THE STANDARD DRAWINGS.
6. 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 QUU.
7. ALL MATERIALS USED IN THE WORKS SHALL COMPLY WITH QUU'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 QUU.
8. ALL CONCRETE FOOTPATHS TO BE CLEAR OF WATER MAINS.
9. TEST/CHLORINATION POINTS TO BE INSTALLED IN ACCORDANCE WITH STANDARD DRAWING NO. SEQ-WAT-1410-1.
10. 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.

WATER NOTES

1. CONSTRUCT EMBEDMENT AND TRENCHFILL TO SEQ-WAT-1201-1 AND BRISBANE CITY COUNCIL STANDARDS FOR ROAD CROSSINGS.
2. PROVIDE BULKHEADS/TRENCHSTOPS IN ACCORDANCE WITH SEQ WATER D & C CODE TABLE 7.5 AND SEQ-WAT-1209-1 & 1210-1.
3. CONSTRUCT THRUST BLOCKS ON ALL BENDS, TEES, TAPES AND DEAD ENDS TO SEQ-WAT-1205-1 & 1206-1.
4. CONSTRUCT PROPERTY SERVICES TO SEQ-WAT-1107-1 & 1107-3.
5. INSTALL DETECTABLE MARKER TAPE ON ALL WATER MAINS AND PROPERTY SERVICES.
6. CONSTRUCT FIRE HYDRANTS AND STOP VALVES TO SEQ-WAT-1301-1, 1302-1, 1303-2, 1305-1, 1306-1 & 1409-1.
7. CONSTRUCT SCOURS TO SEQ-WAT-1307-2.
8. INSTALL PAVEMENT MARKERS TO SEQ-WAT-1300-1 & 1300-2.
9. CONSTRUCT TEST POINTS TO SEQ-WAT-1410-1 AT THE ENDS OF ALL NEW MAINS BEFORE THE SCOUR AND WHERE REQUIRED FOR COMMISSIONING PURPOSES.
10. USE DN40PE (OR DN32 Cu) FOR WATER SERVICE ROAD CROSSINGS SERVICING 2 DWELLINGS. USE DN32PE (OR DN25 Cu) FOR ROAD CROSSINGS SERVICING A SINGLE DWELLING.
11. WATER MAINS SHALL CROSS OVER OTHER SERVICES. IF NOT PRACTICABLE THEN AMEND DESIGN TO USE FULLY WELDED MSCL AND CONCRETE ENCASED.


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 LIVE WORK SHALL BE UNDERTAKEN BY THE CONTRACTOR IN ACCORDANCE WITH A VALID NETWORK ACCESS PERMIT, UNDER THE SUPERVISION OF QUU, AT THE DEVELOPER'S EXPENSE.







ENGINEER'S CERTIFICATION



































































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 3. This generally represents an accurate record of as-constructed works
 4. ~~I accept responsibility for the information contained in this drawing / document.~~ *

 10/02/2021
RPEQ (signature) RPEQ No. 12329 Date:

NOTE:
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AS CONSTRUCTED LEGEND

-  AS CONSTRUCTED WATER MAIN
-  AS CONSTRUCTED FIRE HYDRANT
-  AS CONSTRUCTED VALVE
-  AS CONSTRUCTED WATER SERVICE POINT

	NEW	EXISTING	DISUSED
FIRE HYDRANT			
ISOLATION VALVE			
SCOUR VALVE			
DEAD END			
CONNECTOR			
TEST/CHLORINATION POINT			
PIPE MATERIAL CHANGE			
WATER SERVICE POINT			
THRUST/ANCHOR BLOCK			
WATER SERVICE CONDUIT			
ENCASING/ENVELOPER PIPE			
WATER SERVICE CONDUIT IN APPROVED 100/150			
GRAVITY SEWER			
STORMWATER DRAINAGE			
ELECTRICITY U/G			
ELECTRICITY O/H			
TELECOMMUNICATION			
LIGHT POLE			
ELECTRICITY/POWER POLE			
STORMWATER GULLY			
PIT (TELECOM/ELEC)			
BACK OF KERB			



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CLIENT
CHRIS & MOIRA SMIT

PROJECT
**72 ACACIA ROAD
KARAWATHA**

PROPERTY DESCRIPTION	LOT 1 RP54123
DESIGNED	RC LEONARD
DRAWN	ACAD
REVIEWED	CBL
DATE	10 APRIL 2016

APPROVED
**ORIGINAL SIGNATURE BY
CLA CONSULTANTS AS PER
DESIGN APPROVAL**

REV.	DESCRIPTION	BY	DATE	APPR'D
F	ASCON	JW	18/09/20	
E	QUU RFI	RCL	12/05/19	CBL
D	DESIGN PLANS	RCL	8/11/18	CBL
C	DESIGN APPR'L	RCL	29/06/18	CBL
B	QUU LODGE	RCL	19/05/18	CBL
A	FOR TENDER	RCL	20/12/17	CBL

NAME
**WATER GENERAL
NOTES AND
LOCALITY PLAN**

PROJECT REF.	DRAWING NO.	REVISION
14955	5-01	F

1:1,000 @ A1
1:2,000 @ A3
0 20 40 60 80 100m

ASSET REGISTER WATER RETICULATION				
ESTATE/STAGE		2		
SITE ADDRESS		72 ACACIA ROAD KARAWATHA		
FILE/APPLICATION		18-PNT-35196		
QUU DELEGATES APP. DATE		26/10/2018		
CLIENT				
DRAWING/PLAN No.				
MAINS	DIAMETER	MATERIAL	LENGTH	
		DESIGN CONST	DESIGN	CONST
	DN180	PE	498.30	519.00
	DN100	PE		53.00
SERVICES	DIAMETER	MATERIAL	LENGTH	
		DESIGN CONST	DESIGN	CONST
	DN25	PE	14.00	111.00
	DN4.0	PE	80.00	76.00
	DN125	PE	2.80	3.00
METERS	DIAMETER	NUMBER		
	20	48 48		
	M-19 W/25	1 1		
SERVICE DETAILS				
NO	SIZE	LOT NUMBERS		
48	20	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48		
1	DN125	47/48		

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ALL LIVE WORK SHALL BE UNDERTAKEN BY THE CONTRACTOR IN ACCORDANCE WITH A VALID NETWORK ACCESS PERMIT, UNDER THE SUPERVISION OF QUU, AT THE DEVELOPER'S EXPENSE.

RESTRAINTS TO BE PROVIDED AT TEES, BENDS, AND END OF LINES.

ENSURE ALL COUNCIL/STATE GOVERNMENT VEGETATION/ENVIRONMENTAL AND CREEK REHABILITATION CONDITIONS ARE MET FOR THIS DEVELOPMENT

ENVIRONMENTAL CONDITIONS

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

- SOIL**
- A. TOPSOIL AND SUBSOIL SHALL BE STOCKPILED SEPARATELY.
 - B. CARE SHALL BE TAKEN TO PREVENT SEDIMENT FROM ENTERING THE STORMWATER SYSTEM. THIS MAY INVOLVE PLACING APPROPRIATE SEDIMENT CONTROLS AROUND STOCKPILES.
 - C. ACID SULPHATE SOILS EXIST IN THE WORKS AREA. THE OUTPUTS FROM THE RISK ASSESSMENT BASED ON THE QUEENSLAND ACID SULPHATE SOIL TECHNICAL MANUAL REQUIRES THAT ACID SULPHATE SOILS BE MANAGED AS FOLLOWS: (DELETE IF NO ACID SULPHATE SOILS)

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


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

- SAFETY**
- A. THE DESIGN AND CONSTRUCTION OF THE WORKS SHALL COMPLY WITH ALL QUEENSLAND LEGISLATION.

ENGINEER'S CERTIFICATION

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4. ~~I accept responsibility for the information contained in this drawing / document.~~ *


 10/02/2021
 RPEQ (signature) RPEQ No. 12329 Date:

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CLA

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CLIENT
CHRIS & MOIRA SMIT

PROJECT
**72 ACACIA ROAD
 KARAWATHA**

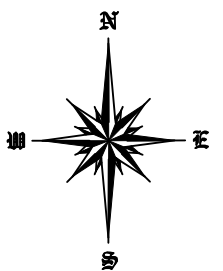
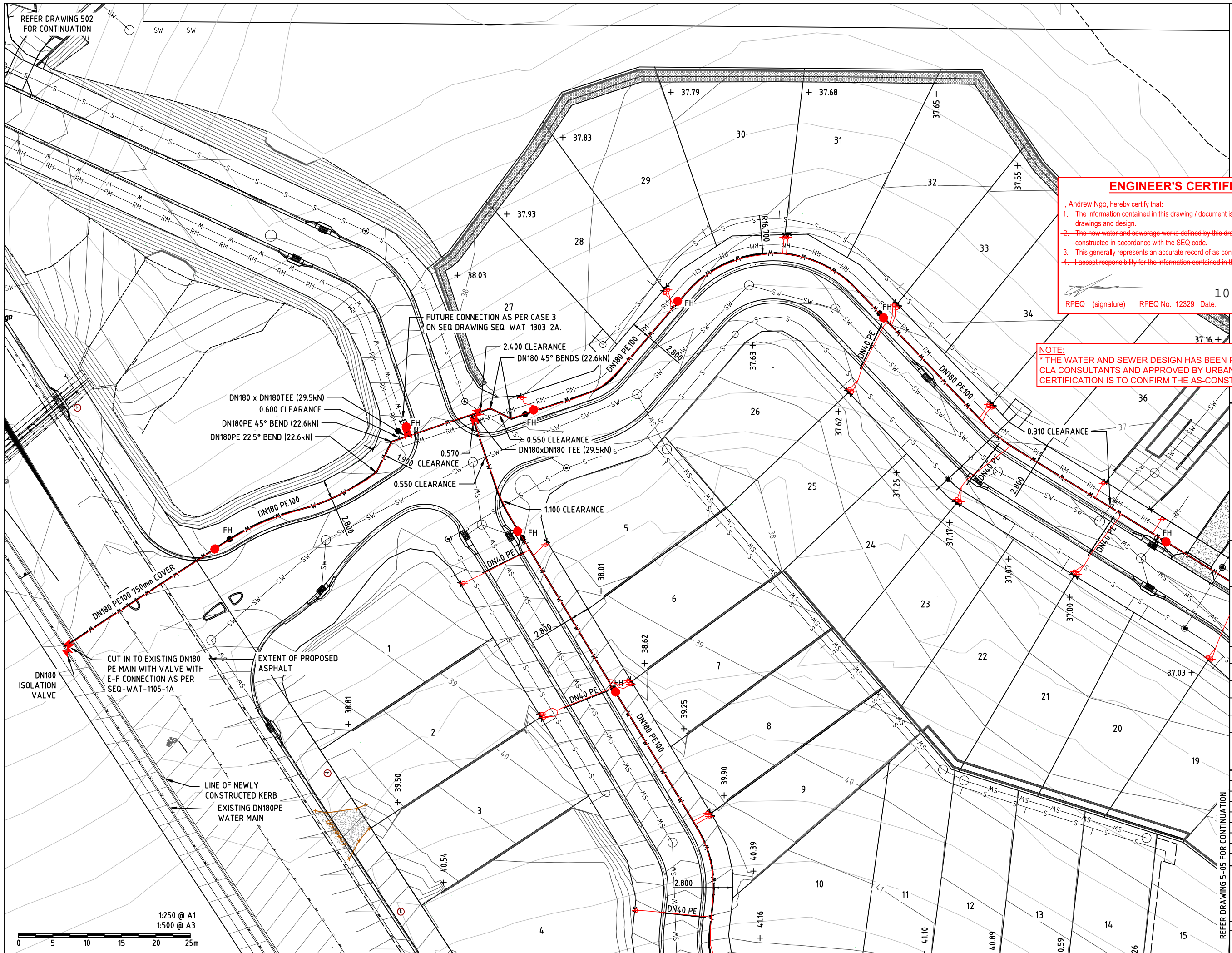
PROPERTY DESCRIPTION	LOT 1 RP54123
DESIGNED	RC LEONARD
DRAWN	ACAD
REVIEWED	CBL
DATE	10 APRIL 2016

APPROVED
**ORIGINAL SIGNATURE BY
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REV.	DESCRIPTION	BY	DATE	APPR'D
F	ASCON	JW	18/09/20	
E	QUU RFI	RCL	12/05/19	CBL
D	STAGE 1	RCL	30/11/18	CBL
C	DESIGN PLANS	RCL	8/11/18	CBL
B	DESIGN APPR'L	RCL	29/06/18	CBL
A	FOR TENDER	RCL	20/12/17	CBL

NAME
**WATER NOTES &
 DETAILS**

PROJECT REF.	DRAWING NO.	REVISION
14955	5-02	F



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REV.	DESCRIPTION	BY	DATE	APPRD
G	ASCON	JW	18/09/20	
F	QUU RFI	RCL	12/03/19	CBL
E	DESIGN PLANS	RCL	8/11/18	CBL
D	STAGE 2 OPW	RCL	18/06/18	CBL
C	QUU LODGE	RCL	19/03/18	CBL
B	FOR OPW	RCL	31/01/18	CBL
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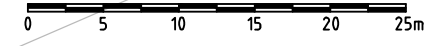
NAME
**STAGE 2 WATER
 RETICULATION PLAN
 SHEET 1 OF 2**

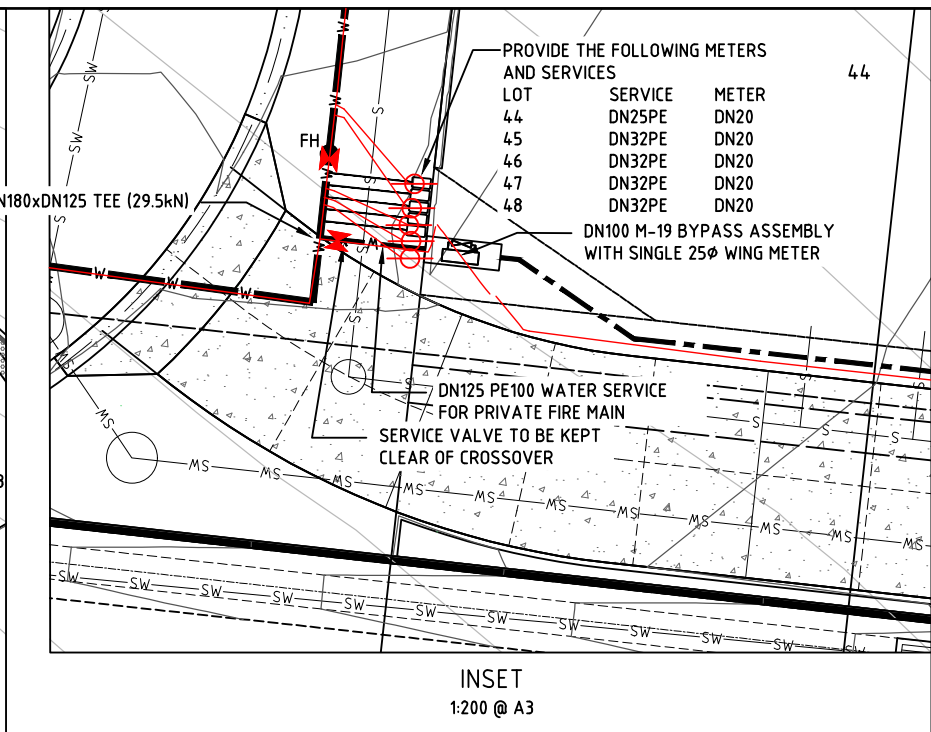
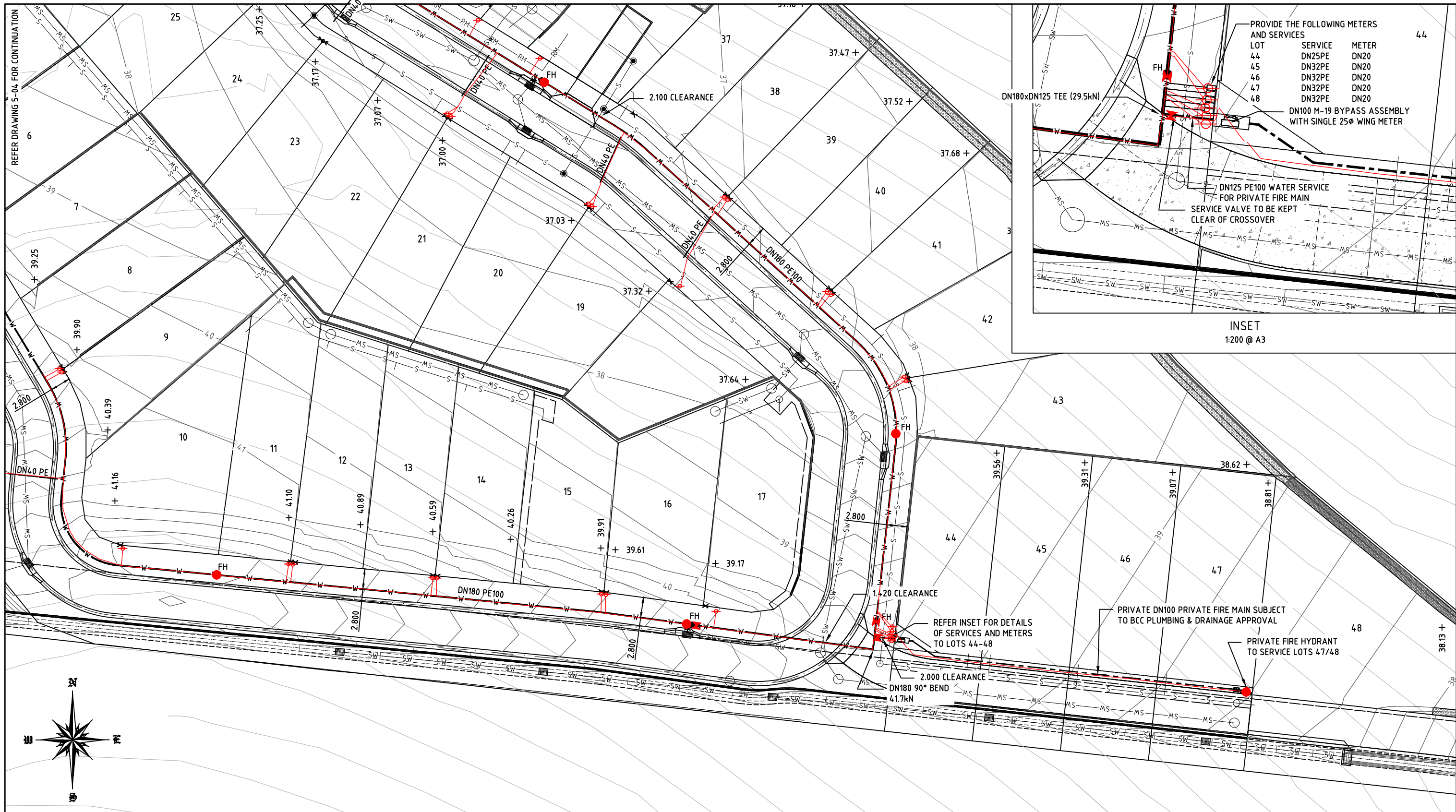
PROJECT REF.	DRAWING NO.	REVISION
14955	5-05	G

REFER DRAWING 5-05 FOR CONTINUATION

REFER DRAWING 502 FOR CONTINUATION

1:250 @ A1
 1:500 @ A3





PROVIDE THE FOLLOWING METERS AND SERVICES

LOT	SERVICE	METER
44	DN25PE	DN20
45	DN32PE	DN20
46	DN32PE	DN20
47	DN32PE	DN20
48	DN32PE	DN20

DN100 M-19 BYPASS ASSEMBLY WITH SINGLE 25mm WING METER

INSET
1:200 @ A3

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[Signature]
RPEQ (signature) RPEQ No. 12329 Date: 10/02/2021

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NAME
STAGE 2 WATER
RETICULATION PLAN
SHEET 2 OF 2

PROJECT REF.	DRAWING NO.	REVISION
14955	5-06	G

