

CRAIGLIE BUSINESS PARK
LOT 100 SP248126 INTO 17 LOTS
BOER STREET - CRAIGLIE 4877



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SCALE N/A Orig. Sheet A3 DO NOT SCALE DRAWINGS Scales Before Reduction		DESIGNER Address: 35 ABBOTT ST, CAIRNS 4870 Email: admin@osegroup.com.au	CLIENT MIDDIN PTY LTD	PROJECT CRAIGLIE BUSINESS PARK BOER STREET - CRAIGLIE 4877	TITLE COVER SHEET, LOCALITY PLAN AND DRAWING INDEX
A 23.01.26 FOR COUNCIL APPROVAL REV DATE REVISION NOTES				DRAWN DM DRAWING CHECK AMcP APPROVED DESIGNED DM DESIGN REVIEW AMcP DATE -	SCALE (Scale as shown) DRAWING No 25235-C00 REV A

SURVEY & EXISTING SERVICES

1. HORIZONTAL DATUM IS MGA
2. LEVEL DATUM IS AHD.
3. REFER TO THE ORIGINAL SURVEY (RPS - PTD405516-1) FOR THE CONFORMATION OF SURVEY STATION SETOUT DETAILS INCLUDING LEVELS AND DATUMS.
4. THE EXISTING SERVICES SHOWN ON THESE DRAWINGS ARE DERIVED FROM SURFACE SURVEY AND COUNCIL RECORDS AND MAY NOT REPRESENT THE EXISTING SERVICES PRESENT BELOW THE SURFACE.
5. THE CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE ALL EXISTING SERVICES PRIOR TO ANY EXCAVATION, PARTICULARLY ON FOOTPATHS.
6. ALL DAMAGE TO EXISTING SERVICES SHALL BE MADE GOOD TO THE SATISFACTION OF THE SUPERINTENDENT AND THE RELEVANT AUTHORITY, ALL AT THE CONTRACTORS EXPENSE. THE CONTRACTOR SHALL NOTIFY THE RELEVANT AUTHORITY IMMEDIATELY WHEN ANY DAMAGE OCCURS.
7. THE LINE AND LEVEL OF EXISTING UNDERGROUND SERVICES SHALL BE DETERMINED BY THE CONTRACTOR AND THE ENGINEER SHALL BE NOTIFIED OF ANY POTENTIAL CLASHES WITH DESIGN STRUCTURES AND SERVICES PRIOR TO COMMENCING CONSTRUCTION.
8. EXISTING OUTLET LEVELS OR CONNECTION LEVELS FOR ALL DESIGN STORMWATER AND SEWER SHALL BE CONFIRMED BY THE CONTRACTOR AND THE ENGINEER SHALL BE NOTIFIED OF ANY VARIATIONS PRIOR TO COMMENCING CONSTRUCTION.
9. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION THE CONTRACTOR IS TO ESTABLISH ON SITE THE EXACT POSITION OF ALL UNDERGROUND SERVICES IN THE PROPOSED WORKS AREA. METHODS FOR ACHIEVING THIS WILL INCLUDE BUT NOT BE LIMITED TO:-

- CAREFUL EXAMINATION OF THE CONTRACT DRAWINGS.

- CONSULTATION WITH THE RELEVANT SERVICE AUTHORITIES.

- COMPREHENSIVELY SCANNING THE AFFECTED AREAS WITH A CABLE DETECTOR AND MARKING ON THE GROUND THE POSITION OF ALL SERVICES.

- HAND EXCAVATING TO EXPOSE ALL SUCH SERVICES WHICH MAY BE AFFECTED BY THE PROPOSED WORKS UNDER THE DIRECTION OF THE RELEVANT SERVICE AUTHORITY.

- BEFORE YOU DIG AUSTRALIA
10. THE CONTRACTOR SHALL BRING TO THE SUPERINTENDENT'S ATTENTION ANY DISCREPANCIES BETWEEN THE EXISTING SERVICES THUS IDENTIFIED AND DOCUMENTED SERVICES WHICH MIGHT AFFECT THE PROPOSED WORKS. APPROPRIATE MEASURES TO RESOLVE ANY CONFLICT WILL BE DOCUMENTED BY THE SUPERINTENDENT.

EARTHWORKS NOTES

1. ALL FOOTPATHS SHALL BE GRASSED (DRILL SEEDED WITH APPROVED GRASS SPECIES) IN ACCORDANCE WITH LANDSCAPE SPECIFICATIONS, FERTILIZED AND MAINTAINED FOR THE REQUIRED MAINTENANCE PERIOD.
2. ALL BARE EARTHWORKS AREAS (LOTS, DRAINS, PARKS, VERGES), SHALL BE GRASSED (DRILL SEEDED WITH APPROVED GRASS SPECIES) FOR SLOPES UP TO AND INCLUDING 1 ON 4, OR HYDROMULCHED FOR SLOPES GREATER THAN 1 ON 4. USE APPROVED SEED MIX AND MAINTAIN, WATER AND FERTILISE FOR MAINTENANCE PERIOD.
3. CLEAR TREES, LARGE SHRUBS ETC FROM THE AREA OF LOTS AND ROAD RESERVES, ONLY FOR CONSTRUCTION OF ROADS AND SERVICES. AND EITHER REMOVE FROM SITE OR ALTERNATIVELY CHIP MULCH AND STOCKPILE FOR RE-USE IN LANDSCAPING. CONTRACTOR SHALL OBTAIN COUNCIL INSPECTION AND APPROVAL PRIOR TO COMMENCING ANY TREE AND VEGETATION CLEARING. ALL VEGETATION/CONSERVATION ZONES SHALL BE RETAINED AND SHALL BE ADEQUATELY FENCED/SEGREGATED PRIOR TO COMMENCING CONSTRUCTION.
4. SLASH THE EARTHWORKS AREA, RAKE AND STOCKPILE CUT VEGETATION FOR RE-USE IN THE LANDSCAPING. CONTINUE SLASHING AND RAKING LOTS AND PARK AREAS AS NECESSARY AND AS INSTRUCTED BY THE SUPERINTENDENT DURING THE CONTRACT AND MAINTENANCE PERIOD TO KEEP GRASS TO A MAXIMUM 50MM TO 100MM HIGH.
5. ALL GULLIES AND DEPRESSIONS REQUIRING FILLING SHALL BE CLEARED, GRUBBED AND CLEANED OUT OF SILT, BOULDERS, DEBRIS ETC TO PROVIDE A CLEAN, FIRM BASE PRIOR TO PLACING ANY FILL OR FILTER MATERIALS. COMPACT ALL NATURAL SUBGRADES WITH 6 TO 8 PASSES OF A 10 TONNE VIBRATING ROLLER PRIOR TO PLACING ANY FILL MATERIALS. PLACE SUBSOIL DRAINSMATS TO ENGINEERS APPROVALS AT THE BASE OF ALL SUCH FILLS AND OUTLET TO THE STORMWATER DRAINAGE SYSTEM. NOTIFY THE SUPERINTENDENT FOR AN INSPECTION PRIOR TO PLACING ANY FILL MATERIALS.
6. WHERE FILL IS PLACED ON SLOPING EXISTING SURFACE, THE EXISTING SURFACE SHALL BE BENCHED AND THE BENCH COMPACTED TO 98% SRDD PRIOR TO PLACING THE FILL MATERIAL.
7. ALL FILL DEPTHS GREATER THAN 600MM IS TO BE COMPLETED UNDER LEVEL 1 SUPERVISION TO AS 3798. ALL OTHER AREAS OF FILL TO BE COMPLETED UNDER LEVEL 2 SUPERVISION.
8. REMOVE SURFACE ROCKS FROM THE LOTS, FOOTPATHS, VERGES AND PARKLAND AREAS. REUSE IN SCOUR PROTECTION. REMOVE EXCESS FROM SITE OR STOCKPILE AS DIRECTED. ALL COSTS TO BE INCLUDED IN CONTRACT LUMP SUM.
9. THE CONTRACTOR SHALL ENSURE NO PONDING AREAS RESULT FROM THE EARTHWORKS OPERATION. ANY SUCH AREAS WHICH DEVELOP SHALL BE RECTIFIED AS DIRECTED BY THE SUPERINTENDENT. THE CONTRACTOR SHALL NOTIFY THE SUPERINTENDENT OF THE DEVELOPMENT OR EXISTENCE OF ANY SUCH PONDING AREAS.
10. BATTERS IN EXCESS OF 1.5M HIGH SHALL BE ASSESSED AND REPORTED FOR STABILITY (DURING CONSTRUCTION) BY A GEOTECHNICAL ENGINEER APPROVED BY THE SUPERINTENDENT AND ENGAGED BY THE CONTRACTOR. COPIES OF REPORTS SHALL BE FORWARDED TO THE SUPERINTENDENT AND TO COUNCIL.
11. THE CONTRACTOR SHALL CONSTRUCT TEMPORARY BERMS AT THE TOP OF ALL BATTERS TO DIRECT AND CONTROL RUNOFF TO A SINGLE LOCATION. THE DISCHARGE OVER THE BATTER SHALL BE THROUGH A STABILISED CHUTE ADDRESSED IN THE CONTRACTORS PLAN, E.G. REINFORCED TURF, GEOTEXTILE, CONCRETE OR SIMILAR.
12. THE CONTRACTOR SHALL SET OUT (BY REGISTERED SURVEYOR) THE LOCATION OF ALL CUT BATTERS PRIOR TO COMMENCING THESE EARTHWORKS. HE SHALL ENGAGE A GEOTECHNICAL ENGINEER TO INSPECT, REPORT AND CHECK THE DESIGN PROFILE AND THE INSTU MATERIAL FOR LONG TERM STABILITY. DESIGN AMENDMENTS AND ANY RETAINING WALLS SHALL BE FINALIZED TO COUNCIL'S APPROVALS PRIOR TO COMMENCEMENT OF ANY OF THESE EARTHWORKS.
13. THE CONTRACTOR SHALL ENSURE THE PROPOSED CONSTRUCTION EQUIPMENT TO BE USED ON THE SITE WILL NOT DAMAGE EXISTING UNDERGROUND INFRASTRUCTURE, IN PARTICULAR HEAVY EQUIPMENT TRAVERSING OVER A.C. MAINS WITH NOMINAL COVERS.

SUBGRADE AND FILL NOTES

1. ROAD RESERVE AREA TO BE CLEARED AND GRUBBED OUT TO REMOVE TOPSOIL AND ORGANIC MATERIAL.
2. WHERE NECESSARY APPROVED IMPORTED FILL TO BE SPREAD IN LAYERS NOT EXCEEDING 200mm AND COMPACTED USING VIBRATORY ROLLER TO 98% SRDD AT OPTIMUM MOISTURE CONTENT.
3. ANY TREES TO BE REMOVED SHALL BE EXCAVATED AND THE HOLE FILLED WITH APPROVED IMPORTED FILL COMPACTED AS ABOVE.
4. FILLING TO BE BROUGHT UP TO THE UNDERSIDE OF THE ROAD PAVEMENT AND TRIMMED TO THE DESIRED LEVELS.
5. ALL SOFT SPOTS SHALL BE EXCAVATED BACK TO FIRM GROUND. THE BASE OF THE EXCAVATION COMPACTED AND BACKFILLED WITH APPROVED FILL AND COMPACTED AS PER ABOVE NOTES.
6. ALL FILL SHALL BE TESTED FOR COMPACTION IN ACCORDANCE WITH AS 3798 AND FNQROC REQUIREMENTS.
7. SUB-GRADE SHALL BE TRIMMED AND COMPACTED TO 98% SRDD (ASSUMED SOAKED CBR 10 MIN).
8. THE CONTRACTOR SHALL CHECK THE PAVEMENT SUBGRADE CBR AND SUBMIT THE CBR TEST RESULTS TO THE SUPERINTENDENT, FOR CONFIRMATION OF PAVEMENT DESIGN, AT LEAST TWO WEEKS PRIOR TO THE PLACEMENT OF ANY GRAVEL. REFER SPECIFICATION FOR TEST FREQUENCY AND LOCATION.

CONSTRUCTION UNDER TRAFFIC

1. THE CONTRACTOR SHALL PROVIDE A TRAFFIC MANAGEMENT PLAN IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR APPROVAL BY COUNCIL PRIOR TO THE PRESTART MEETING.

ROADWORKS NOTES

1. TRAFFIC CONTROL DEVICES (ROAD EDGE GUIDE POSTS, SIGNS, ETC) SHALL BE SUPPLIED AND INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT ISSUE OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AS ISSUED BY THE DEPARTMENT OF TRANSPORT, QUEENSLAND.
2. REFER TO THE "TYPE CROSS SECTIONS" DRAWING FOR PAVEMENT DETAILS DRG 25235-C05
3. CONSTRUCTION AND INSTALLATION OF ALL WORKS AS DETAILED ON THIS DRAWING IS TO BE IN ACCORDANCE WITH THE PROCEDURES, SPECIFICATIONS AND DRAWINGS CONTAINED IN THE CURRENT ISSUE OF THE "REGIONAL DEVELOPMENT MANUAL" AS ISSUED BY FNQROC, AND TO THE REQUIREMENTS OF THE COUNCIL.
4. THE CONTRACTOR SHALL LIAISE WITH THE RELEVANT AUTHORITIES TO CONFIRM THE LOCATION OF ALL EXISTING SERVICES, AND SHALL ARRANGE FOR THE REMOVAL OR RELOCATION OF ANY SERVICES WHICH WILL BE AFFECTED BY THE WORKS.
5. THE CONTRACTOR/BUILDER SHALL OBTAIN COUNCIL APPROVALS PRIOR TO COMMENCING ANY CONSTRUCTION WORKS EXTERNAL TO THE SITE.
6. THE CONTRACTOR SHALL REMOVE ALL EXISTING CONSTRUCTION, TREES, SERVICES ETC AS NECESSARY TO PERMIT CONSTRUCTION OF THE NEW WORKS.
7. THE CONTRACTOR SHALL OBTAIN COUNCIL INSPECTIONS AND THEIR WITNESS TO TESTING PRIOR TO MAKING SEWERS AND WATER MAINS LIVE. A COPY OF COUNCIL'S INSPECTION CERTIFICATE SHALL BE PROVIDED TO THE SUPERINTENDENT PRIOR TO PRACTICAL COMPLETION.
8. THE CONTRACTOR SHALL PROVIDE "AS CONSTRUCTED" DRAWINGS PREPARED BY A REGISTERED SURVEYOR IN ACCORDANCE WITH FNQROC TO THE SUPERINTENDENT PRIOR TO PRACTICAL COMPLETION.
9. TREES ON THE SITE ARE TO REMAIN UNLESS NOTED OTHERWISE. PROTECTION OF EXISTING TREES SHALL BE IN ACCORDANCE WITH AS4970 – 2009 – PROTECTION OF TREES ON DEVELOPMENT SITES.
10. THE CONTRACTOR SHALL COMPLY WITH ALL CONDITIONS OF THE COUNCIL'S DECISION NOTICE/NEGOTIATED DECISION NOTICE ISSUED FOR THE PROJECT – COPIES ARE AVAILABLE ON REQUEST.
11. SUBSOIL FLUSH POINTS TO BE IN ACCORDANCE WITH FNQROC DWG No. S1095. WHERE FLUSH POINTS OCCUR AT STORMWATER PITS, ENSURE FLUSHING POINT IS PROVIDED INSIDE THE PIT TO THE DETAILS SHOWN ON FNQROC DWG No. S1095.
12. PROVIDE SUBSOIL TAILS IN ACCORDANCE WITH FNQROC DRGS No. S1050 & S1055 TO UIS OF ALL KERB INLET PITS.

ASPHALT SURFACE (WHERE SPECIFIED)

1. THE PAVEMENT SHALL BE BROOMED CLEAN AND SHALL BE DRY PRIOR TO APPLYING PRIME COAT.
2. PRIME COAT SHALL BE APPLIED 48 HOURS PRIOR TO ASPHALT SEALING.
3. APPLY 50mm OF APPROVED ASPHALT.
4. THE PRIME COAT AND HOT MIX DESIGN SHALL BE SUPPLIED AND PLACED IN ACCORDANCE WITH COUNCIL DEVELOPMENT MANUAL REQUIREMENTS, WITH POLYMER ADDITIVES.

SEWERAGE RETICULATION

1. ALL SEWER PIPES SHALL BE 150 DIA PVC, CLASS SEH, UNLESS NOTED OTHERWISE.
2. ALL PCB's SHALL BE OF TYPE AS NOTED SHALL BE IN ACCORDANCE WITH FNQROC DWG No S3005. ALL PCB's SHALL BE PLACED CLEAR OF ANY EASEMENTS, AND WHERE PCB'S CROSS UNDER EASEMENTS OR BATTERS SHALL BE EXTENDED 1000mm BEYOND (AND CLEAR OF) THE EASEMENT OR BATTER. AN I.O. SHALL BE PROVIDED AT THE DOWNSTREAM END OF THE HOUSE DRAIN, WITHIN 1.0m OF THE BOUNDARY, TO DELINEATE THE END OF THE PROPERTY CONNECTION BRANCH (PCB).
3. END CAPS SHALL BE PROVIDED AT ALL LINE ENDS WHERE MANHOLES ARE NOT TO BE CONSTRUCTED.
4. WHERE MANHOLES OCCUR AT THE ENDS OF SEWER LINES, THE HOUSE CONNECTION BRANCH (PCB) IS TO BE CONNECTED DIRECTLY TO MANHOLE TO AVOID DRY MANHOLE SITUATIONS. REFER TO PLAN FOR PCB LOCATIONS.
5. REFER TO THE SEWERAGE LONGITUDINAL SECTIONS FOR SEWER PIPE GRADES, INVERT LEVELS, STORMWATER CLASHES, ETC.
6. CONSTRUCTION OF THE SEWERAGE RETICULATION SHALL BE IN ACCORDANCE WITH THE PROCEDURES, SPECIFICATIONS AND DRAWINGS INCLUDING REQUIREMENTS FOR "AS CONSTRUCTED" DRAWINGS AS CONTAINED IN THE CURRENT ISSUE OF THE "REGIONAL DEVELOPMENT MANUAL" AS ISSUED BY FNQROC, AND SHALL BE TO THE REQUIREMENTS OF THE COUNCIL.
7. THE CONTRACTOR SHALL MAKE ALL APPLICATIONS AND PAY ALL FEES TO COUNCIL FOR THE SEWERAGE WORKS AND SHALL ARRANGE AND MANAGE COUNCIL'S INSPECTIONS AND TESTING OF THE WORKS. A COPY OF COUNCIL'S INSPECTION CERTIFICATE SHALL BE PROVIDED BY THE CONTRACTOR TO THE SUPER PRIOR TO PRACTICAL COMPLETION.

WATER RETICULATION NOTES

1. VALVES AND HYDRANTS MUST BE LOCATED OPPOSITE BOUNDARY JUNCTIONS AND TRUNCATIONS.
2. WATER SUPPLY FITTINGS ARE TO INCORPORATE SOCKETS WITH AN EFFECTIVE SEALING LENGTH EQUAL OR GREATER THAN THAT OF THE uPVC PIPE USED.
3. ALIGNMENT OF WATER RETICULATION MAINS WITHIN ROAD RESERVES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF TABLELANDS REGIONAL COUNCIL.
4. INSTALLATION OF VALVES AND FIRE HYDRANTS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE DOUGLAS SHIRE COUNCIL.
5. ALL WORKS AND MATERIALS SHALL BE IN ACCORDANCE WITH FNQROC.
6. FOR DETAILS FOR KERB AND PAVEMENT MARKINGS AND RETROREFLECTIVE MARKERS AT HYDRANTS REFER TO FNQROC STANDARD DRAWINGS S2005 AND S2010.
7. THE CONTRACTOR SHALL MAKE ALL APPLICATIONS AND PAY ALL FEES TO COUNCIL FOR THE WATER SUPPLY WORKS AND SHALL ARRANGE AND MANAGE COUNCIL'S INSPECTIONS AND TESTING OF WORKS. A COPY OF THE COUNCIL'S INSPECTION CERTIFICATE SHALL BE PROVIDED BY THE CONTRACTOR TO THE SUPER PRIOR TO PRACTICAL COMPLETION.

EROSION SEDIMENT CONTROL STRATEGY AND ENVIRONMENTAL PROTECTION

1. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT AND PRESERVE THE NATURAL ENVIRONMENT AND SHALL AVOID ENVIRONMENTAL POLLUTION IN ACCORDANCE WITH THE ENVIRONMENTAL PROTECTION ACT.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INCORPORATION OF APPROPRIATE CONTROL AND MANAGEMENT MEASURES CONFORMING TO THE REQUIREMENTS OF THE ACT AND THE RELEVANT AUTHORITIES.
3. THE EROSION AND SEDIMENT CONTROL STRATEGY, SHOWN OR NOTED ON THESE DRAWINGS, HAS BEEN PROVIDED AS A GUIDE.
4. THE CONTRACTOR SHALL PROVIDE AN EROSION SEDIMENT CONTROL PLAN (ESCP) FOR EACH PHASE OF HIS PROPOSED CONSTRUCTION PROGRAM AND WORK METHODS, AND IS WHOLLY RESPONSIBLE FOR THE IMPLEMENTATION, CONTROL AND MANAGEMENT OF SUCH PLAN.
5. THE CONTRACTOR SHALL INSTALL ALL DEVICES/MEASURES NECESSARY TO COMPLY WITH THE PROVISIONS OF THE ESCP FNQROC DEVELOPMENT MANUAL, THE ENVIRONMENTAL PROTECTION ACT, AND COUNCIL REQUIREMENTS.
6. THE ESCP SHALL INCLUDE SUCH MEASURES AS SHOWN ON THE STRATEGIC PLAN.
7. "OSE GROUP" DO NOT ACCEPT RESPONSIBILITY FOR THE CONTRACTOR'S DESIGN & IMPLEMENTATION OF THEIR ESCP NOR THE CONSEQUENCES OF THEIR FAILURE TO APPLY ALL REASONABLE CONTROLS.
8. ALL STORMWATER INLETS, TRENCHES, ETC. SHALL BE CONSTRUCTED IN SUCH A WAY AS TO PREVENT THE ENTRY OF SEDIMENT INTO THE STRUCTURE. IF IT IS NECESSARY TO DISCHARGE INTO SUCH INLETS THEN SUITABLE SILT TRAPS SHALL BE CONSTRUCTED UPSTREAM OF THE INLETS SUCH THAT OVERFLOW FROM TRAPS ENTERS THE DRAINS AFTER THE SEDIMENT HAS DROPPED OUT.
9. ALL SEDIMENT CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL THE END OF THE MAINTENANCE PERIOD, UNLESS NOTED OTHERWISE. ALL SEDIMENT CONTROL DEVICES ARE TO BE FULLY MAINTAINED IN AN EFFECTIVE WORKING CONDITION DURING CONSTRUCTION AND THE MAINTENANCE PERIOD. THE CONTRACTOR SHALL ENSURE THAT ALL SEDIMENT CONTROL DEVICES ARE KEPT FREE OF SEDIMENT BUILD-UP.
10. SEDIMENT FENCES SHALL BE INSTALLED SUCH THAT THE BASE OF THE FENCE IS PLACED 150MM MINIMUM BELOW GROUND LEVEL, AND ANCHORED SECURELY IN SUCH POSITION.
11. ALL VEHICLE EXIT POINTS SHALL HAVE SHAKER GRIDS, WASH BAYS OR SIMILAR TO PREVENT VEHICLES FROM TRACKING SOIL AND MUD OFF SITE.
12. ALL SOIL STOCKPILES SHALL BE PROTECTED AGAINST WIND EROSION BY COVERING AND AGAINST STORMWATER RUNOFF BY SILT FENCES AT THE DOWNHILL SLOPES. STOCKPILE LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR AND EROSION/CONTROL MEASURES IMPLEMENTED & MAINTAINED FOR THE LIFE OF THE STOCKPILE.
13. THE CONTRACTOR SHALL INSTALL TURF STRIPS BEHIND ALL KERB & CHANNEL. ADJACENT CONCRETE INVERTS AND ALLLOTMENT DRAINS ETC WHERE DIRTY WATER SHEET FLOWS INTO DRAINAGE COLLECTION SYSTEMS.
14. DIVERT CLEAN WATER AROUND AREAS OF CONSTRUCTION.
15. DRILL SEED ALL ROAD SHOULDERS, FOOTPATHS, DRAINS AND CUT BATTERS UP TO 1 ON 4 SLOPE WITH APPROVED GRASS SPECIES, FERTILIZED AND MAINTAIN FOR THE REQUIRED MAINTENANCE PERIOD
16. HYDROMULCH ALL CUT AND FILL BATTERS STEEPER THAN 1 ON 4, WITH APPROVED SUITABLE GRASS SPECIES AND MAINTAIN FOR THE REQUIRED MAINTENANCE PERIOD
17. THE CONTRACTOR SHALL CONSTRUCT TEMPORARY BERMS AT THE TOP OF ALL BATTERS TO DIRECT AND CONTROL RUNOFF TO A SINGLE LOCATION. THE DISCHARGE OVER THE BATTER SHALL BE THROUGH A STABILIZED CHUTE ADDRESSED IN THE CONTRACTORS PLAN, E.G. REINFORCED TURF, GEOTEXTILE, CONCRETE OR SIMILAR.
18. ALL WORKS AND MATERIALS SHALL BE IN ACCORDANCE WITH FNQROC.

IMPORTED NON PLASTIC FILL

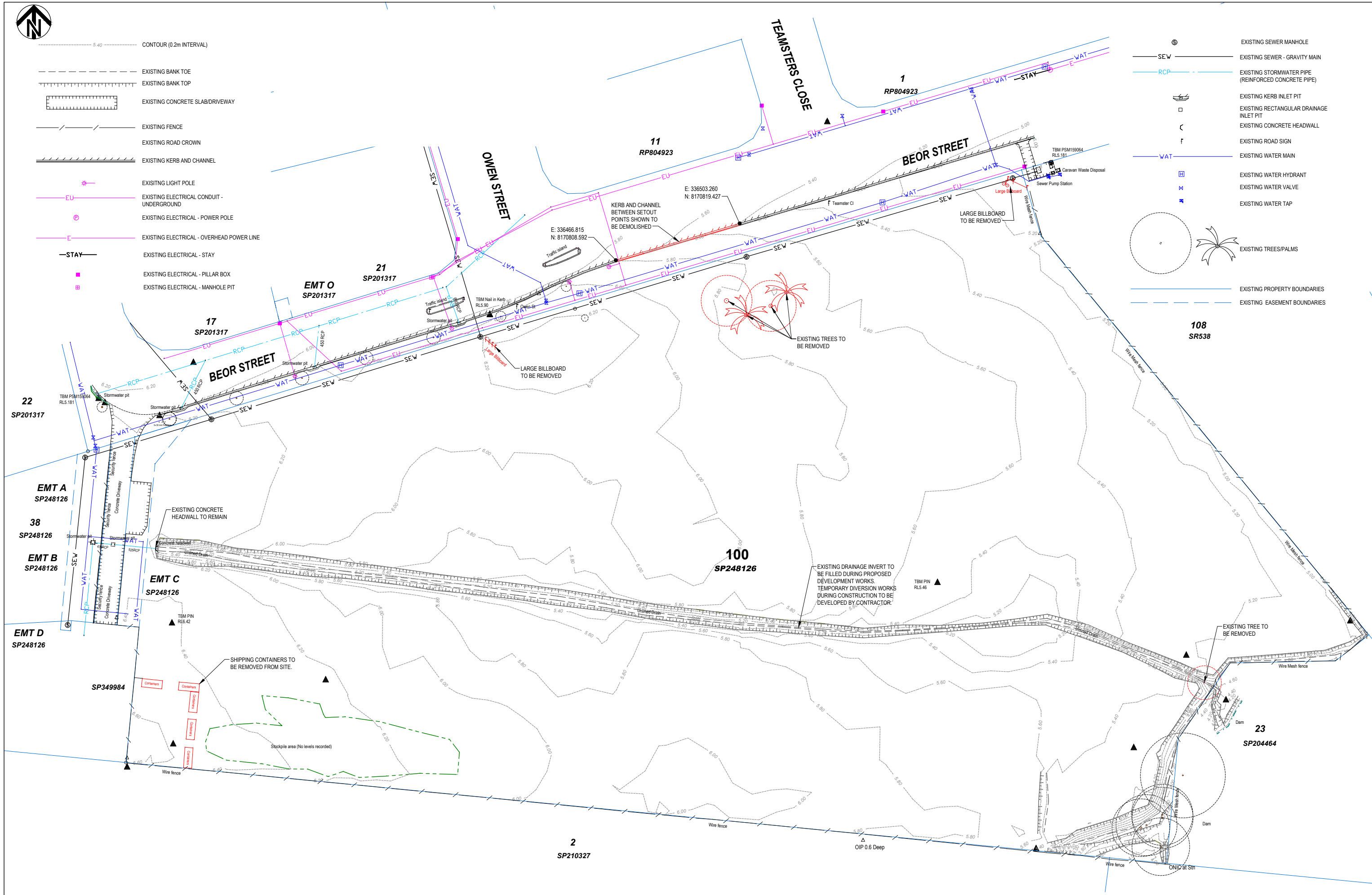
1. AS METRIC SIEVE

75mm100

2.36mm25 - 70

75um2 - 30

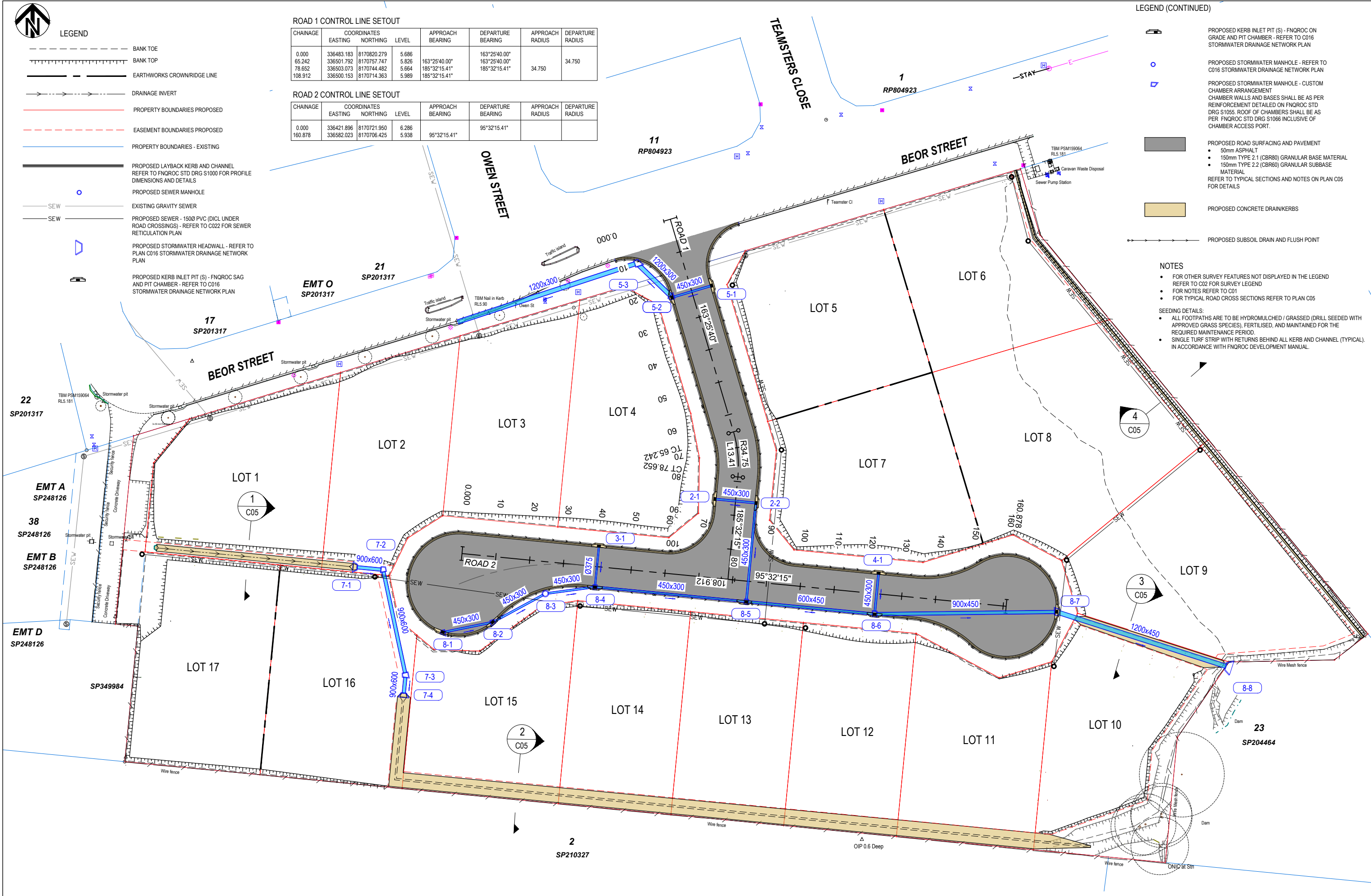
% PASSING BY WEIGHT
2. MINIATURE ABRASION LOSS PASSING 2.36mm0 - 15
3. LINEAR SHRINKAGE PASSING 4.25um0 - 8
4. MATERIAL RETAINED ON 2.36mm SIEVE SHALL CONSIST OF SOUND STONE
5. SOAKED CBR 15 AT 98% MDD + OR - 2% OMC COMPACTION
6. WHERE NECESSARY APPROVED IMPORTED FILL SHALL BE SPREAD IN LAYERS NOT EXCEEDING 200mm AND COMPACTED USING VIBRATORY ROLLER TO 100% MDD + OR - 2% OMC AT OPTIMUM MOISTURE CONTENT.
7. ALL FILL SHALL BE TESTED FOR COMPACTION IN ACCORDANCE WITH AS 3798.
8. THE EARTHWORKS CONTRACTOR SHALL VERIFY WITH CBR TESTS PER MATERIAL TYPE AND APPROVED BY THE EPC CONTRACTOR AND EPEC PROJECT MANAGER.
9. FILL WITH DEPTH GREATER THAN 400mm SHALL BE SUPERVISED TO LEVEL 1 IN ACCORDANCE WITH AS 3798.



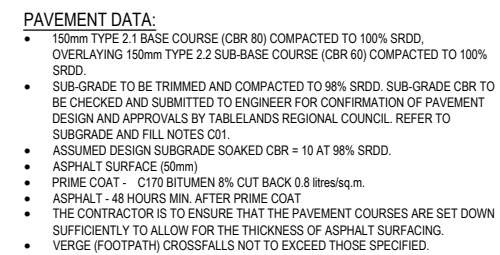
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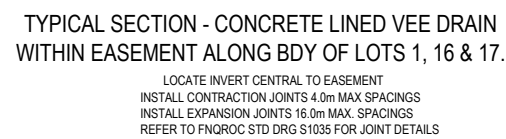
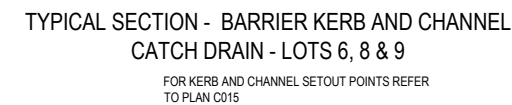
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LOTS 10 TO LOTS 16



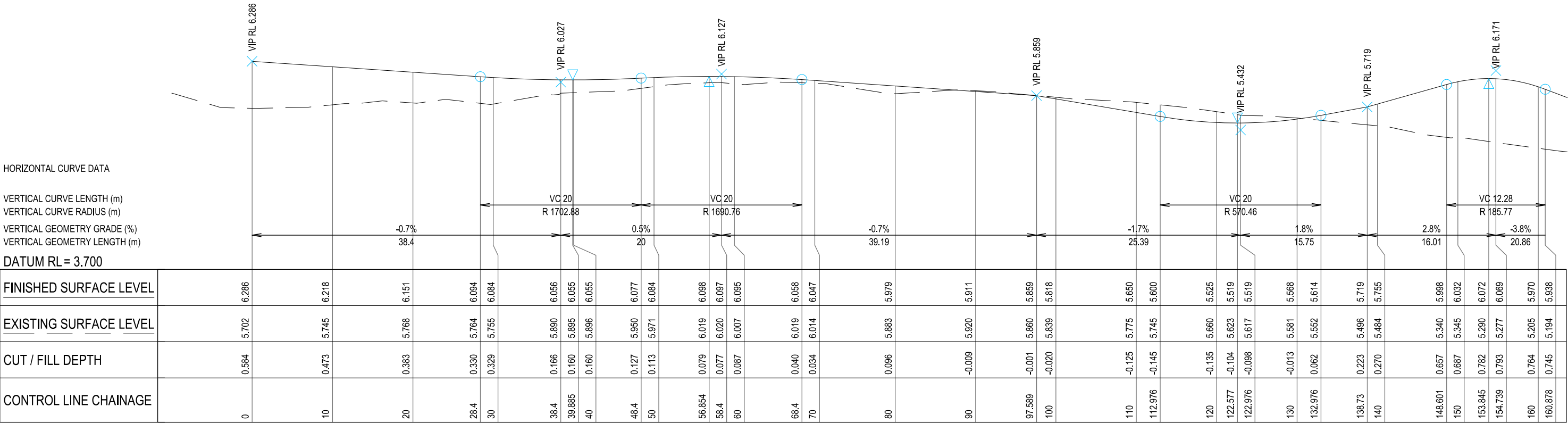
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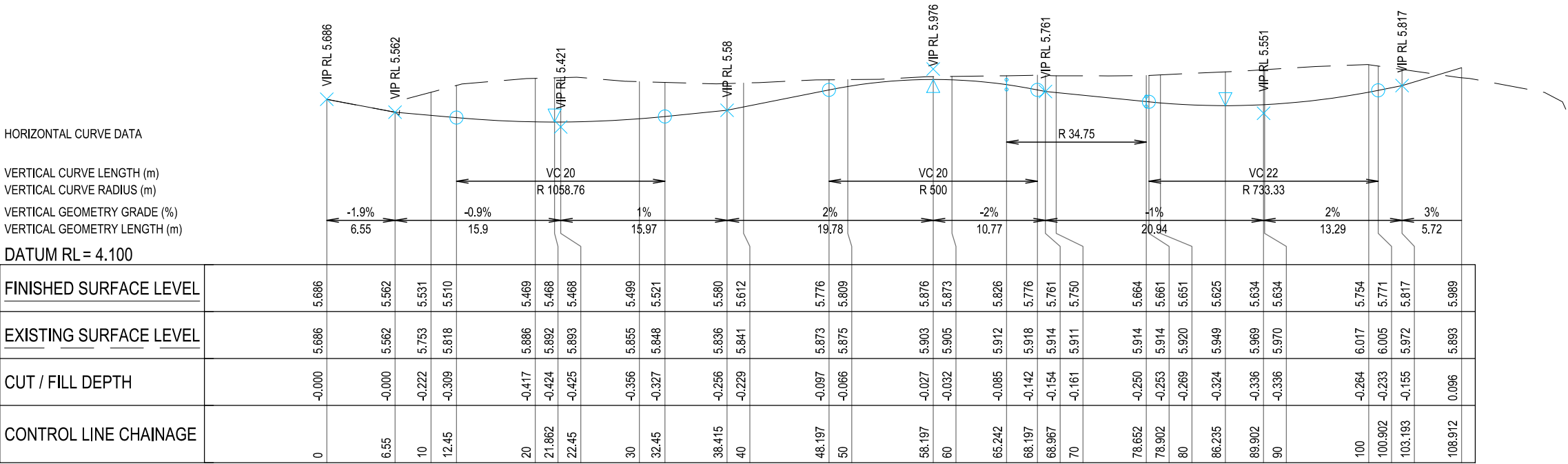
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DESIGNED DM	DESIGN REVIEW AMcP	

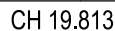
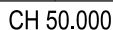
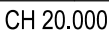
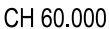
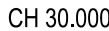
SCALE (Scale as shown)	DRAWING No 25235-C05	REV A
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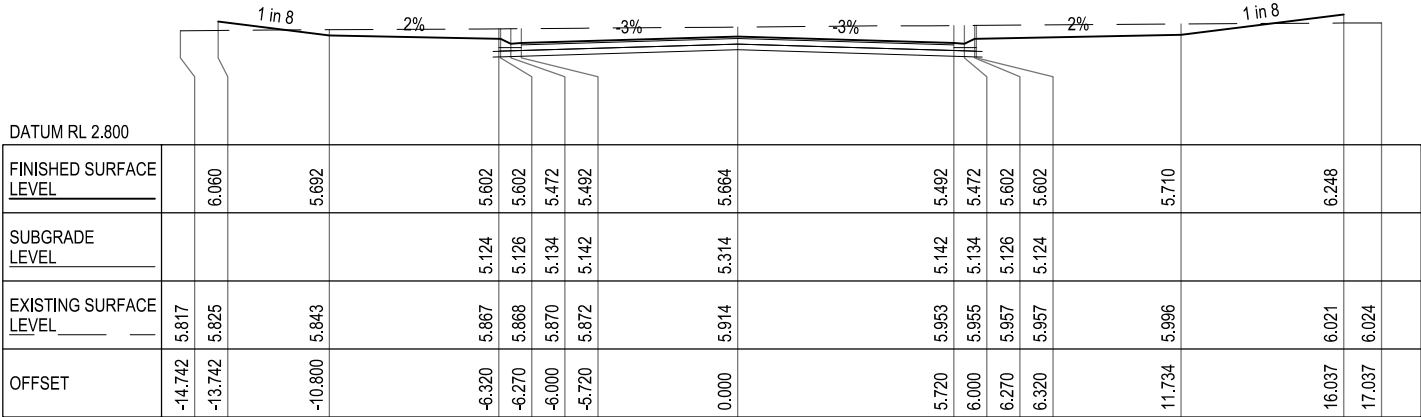


A3 SCALE: H 1:500, V 1:50
LONGITUDINAL SECTION ROAD 2

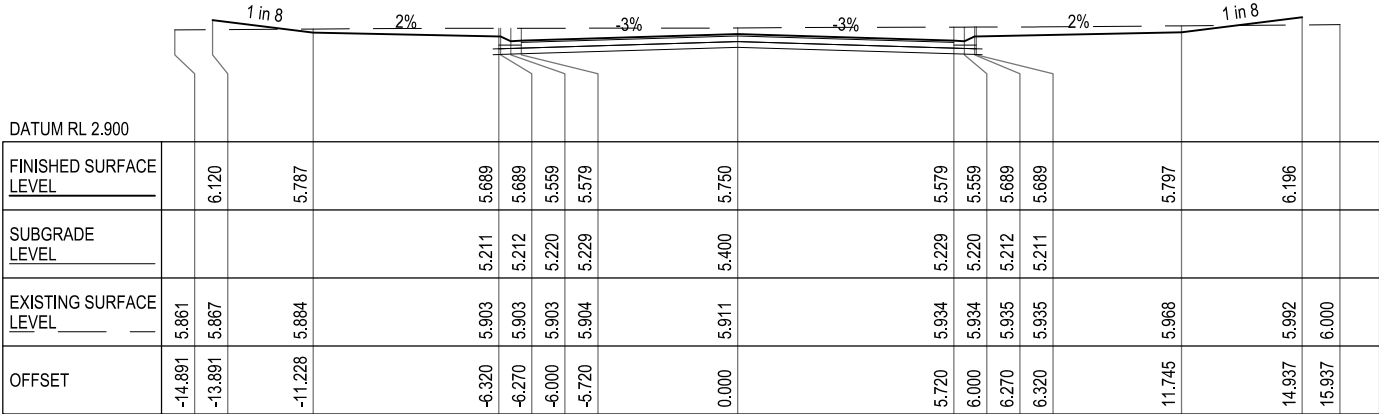


A3 SCALE: H 1:500, V 1:50
LONGITUDINAL SECTION ROAD 1

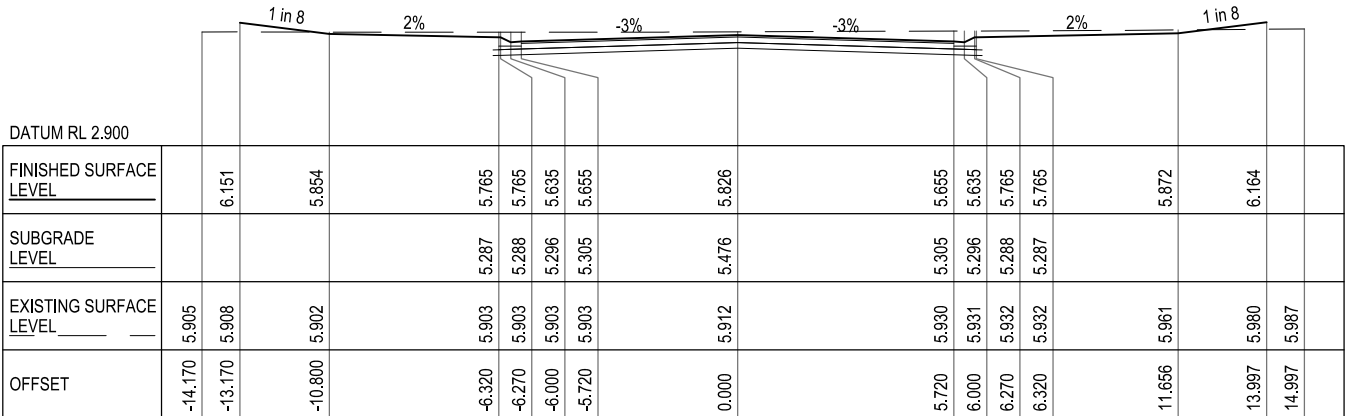




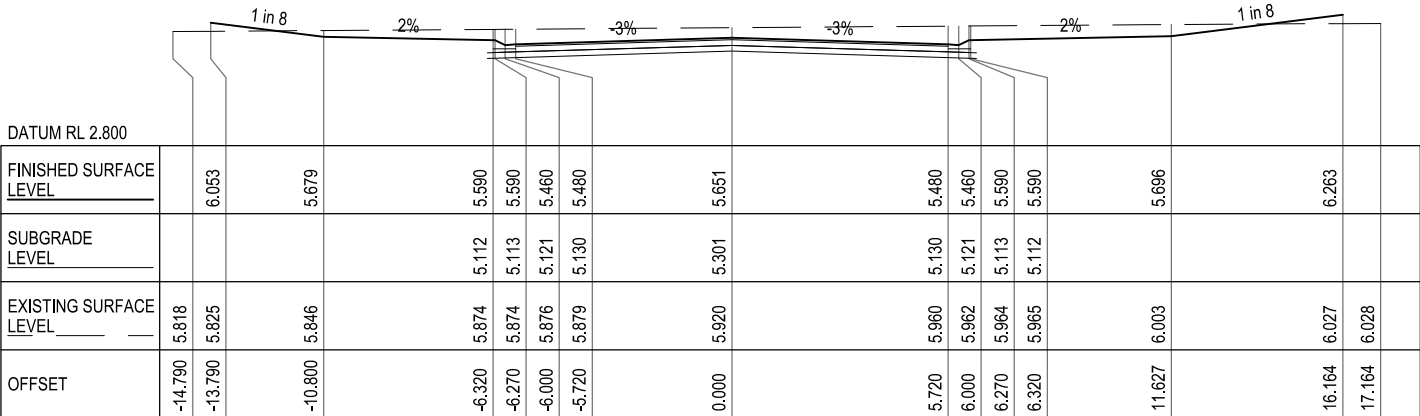
CH 78.652



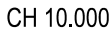
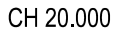
CH 70.000

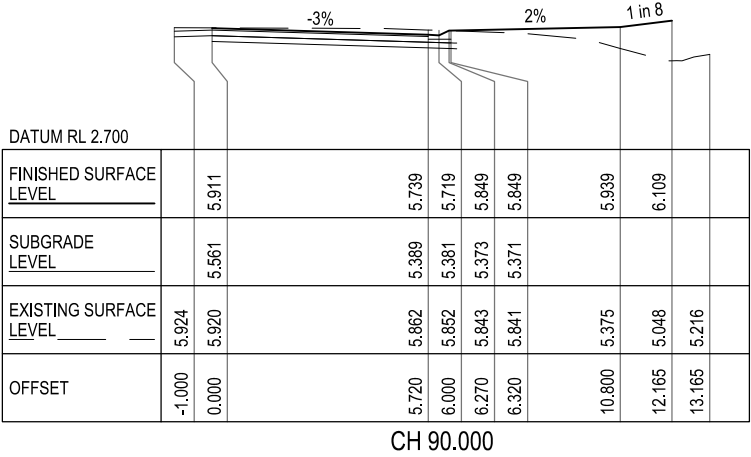
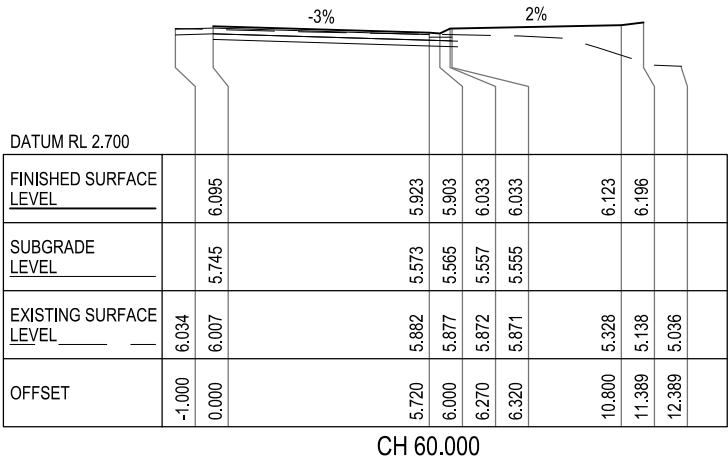
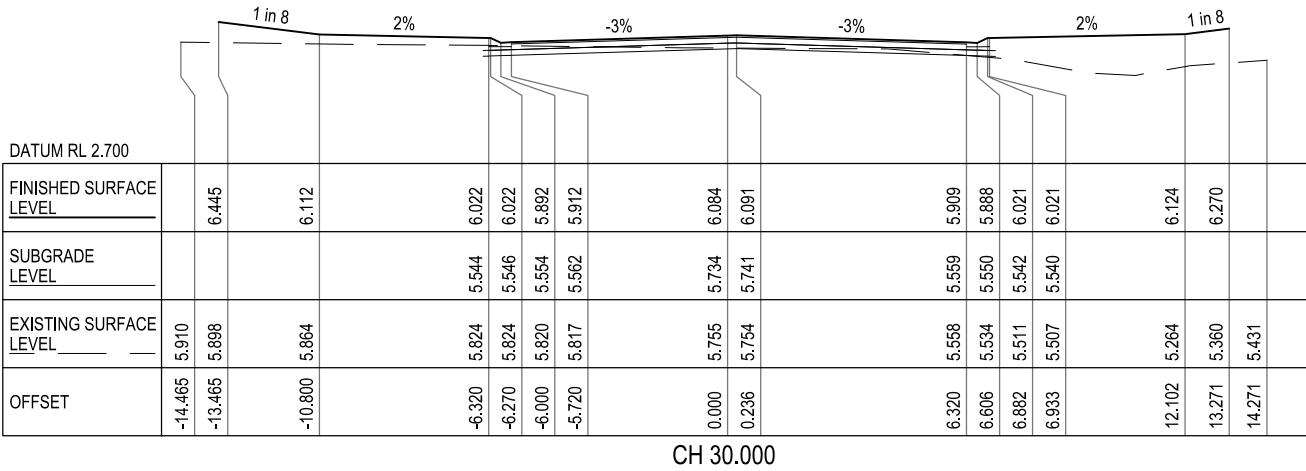
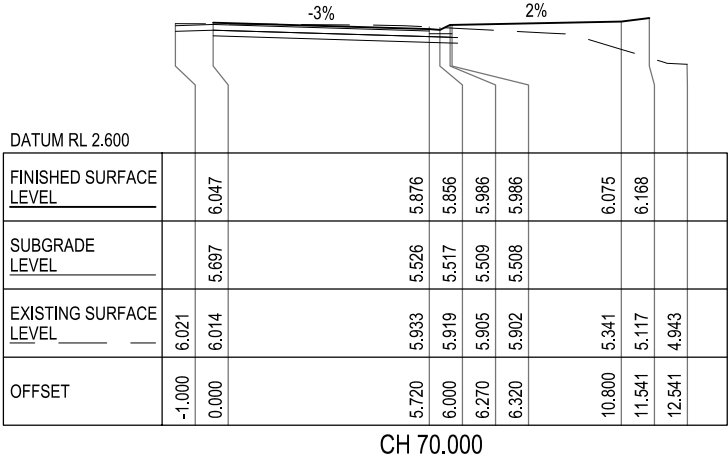
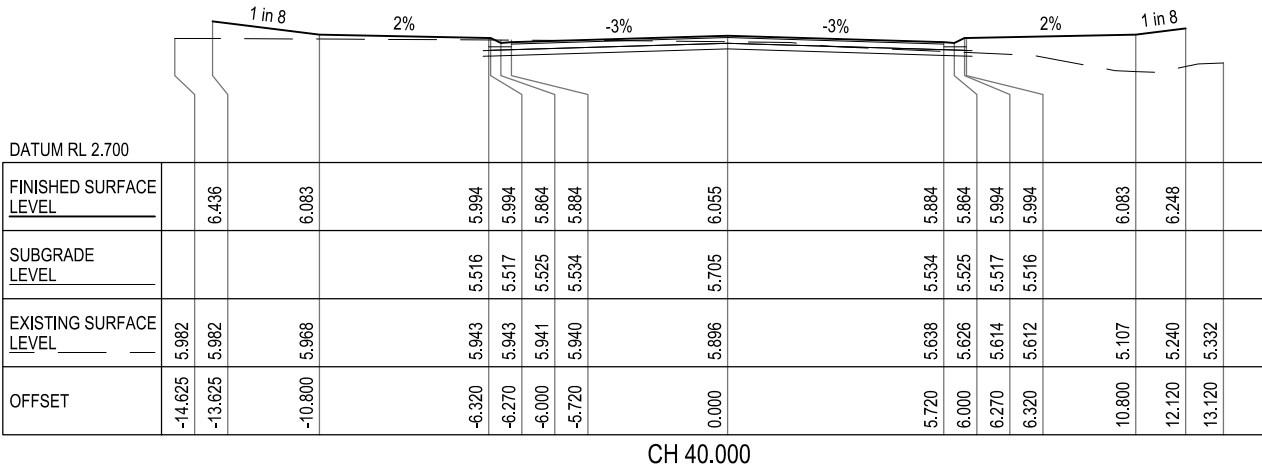
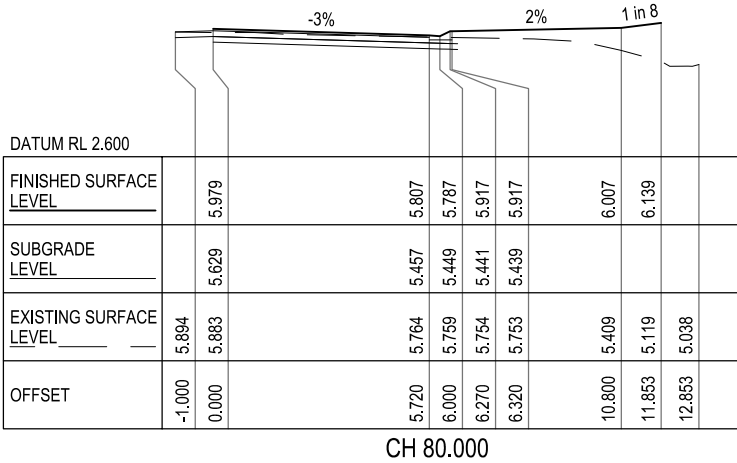
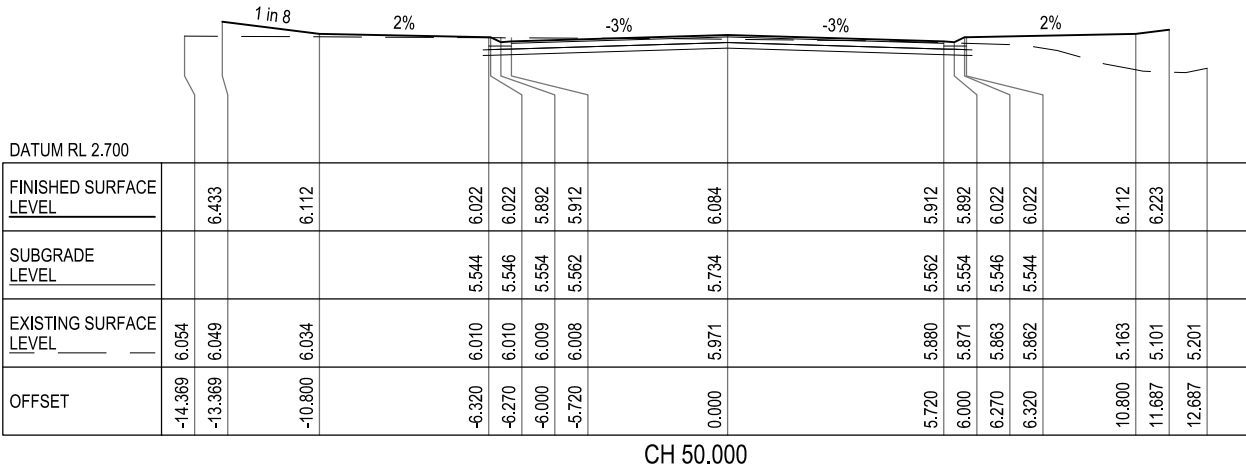


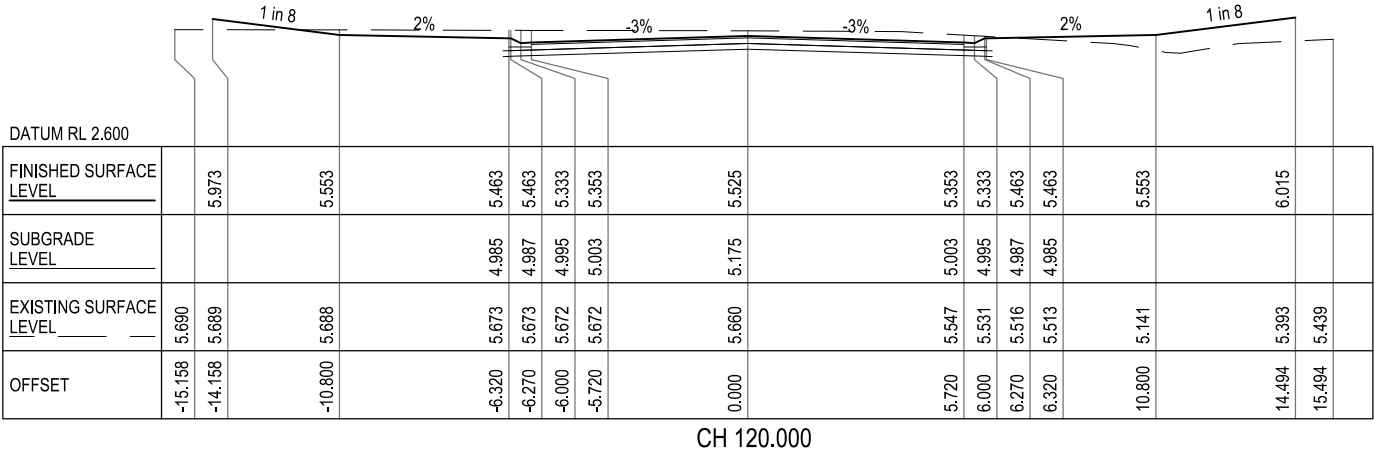
CH 65.242



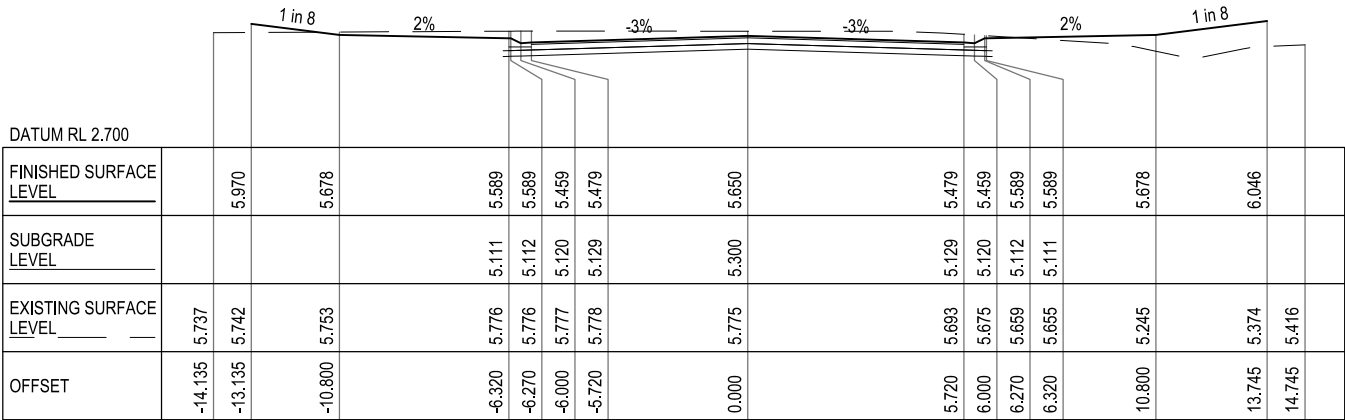
CH 80.000



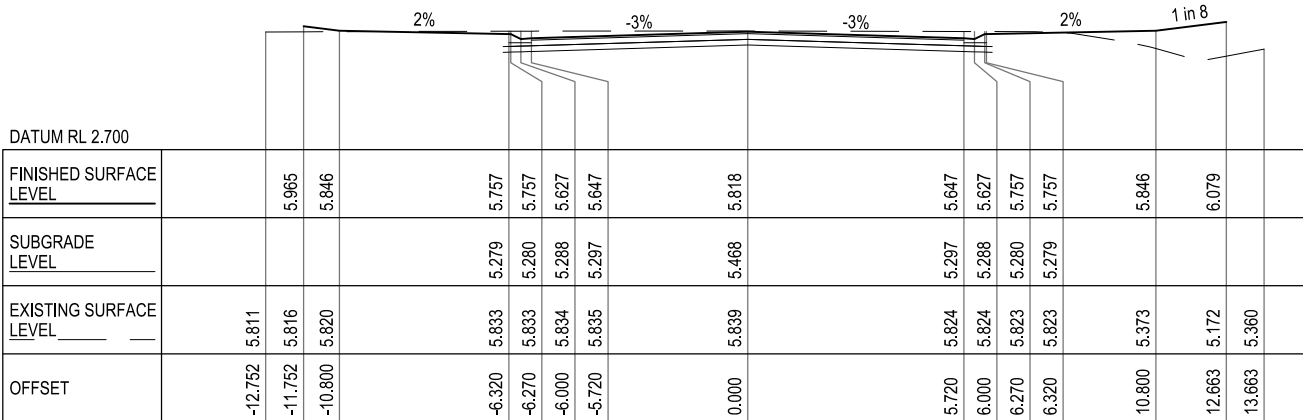




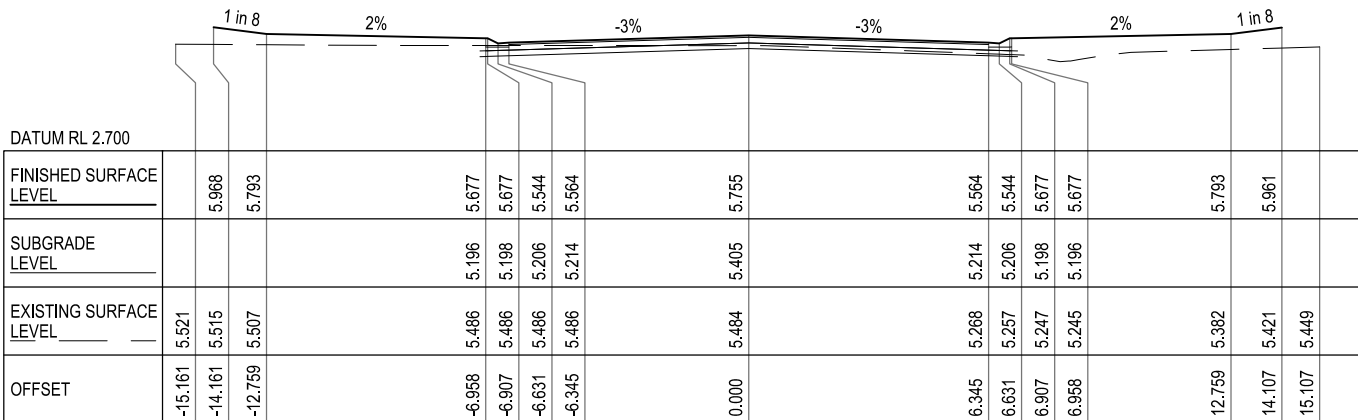
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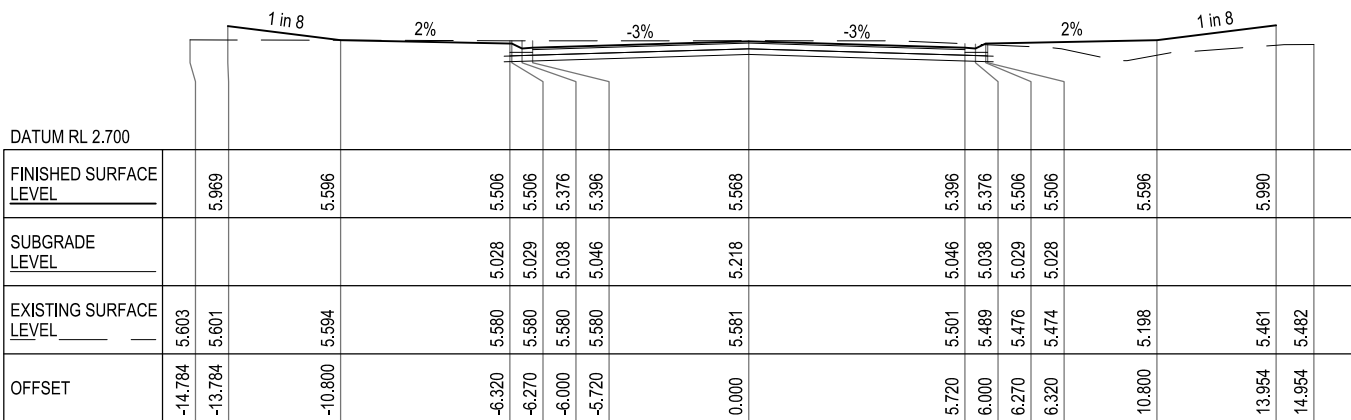
CH 110.000



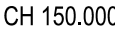
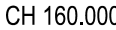
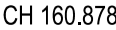
CH 100.000

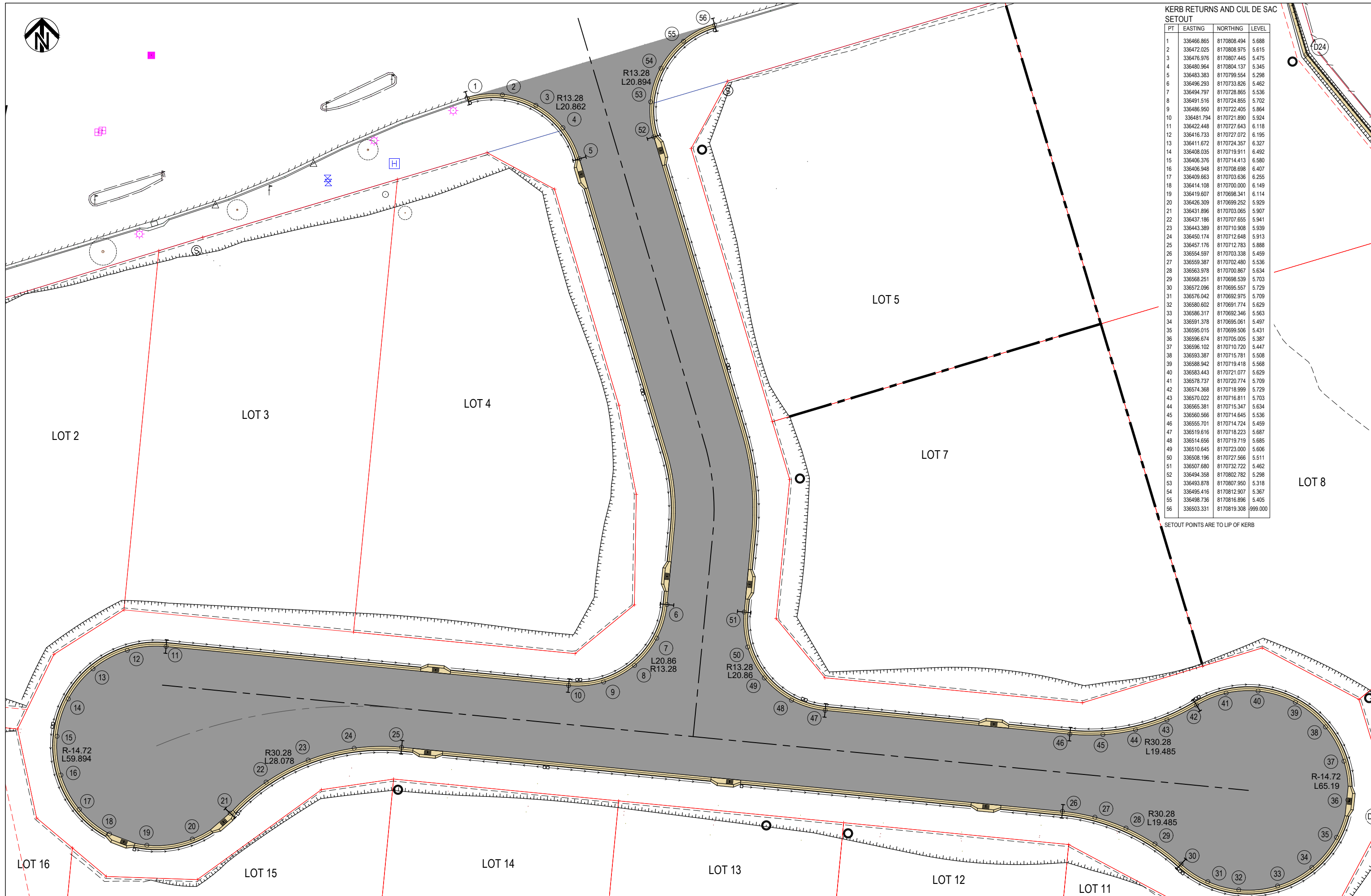


CH 140.000



CH 130.000



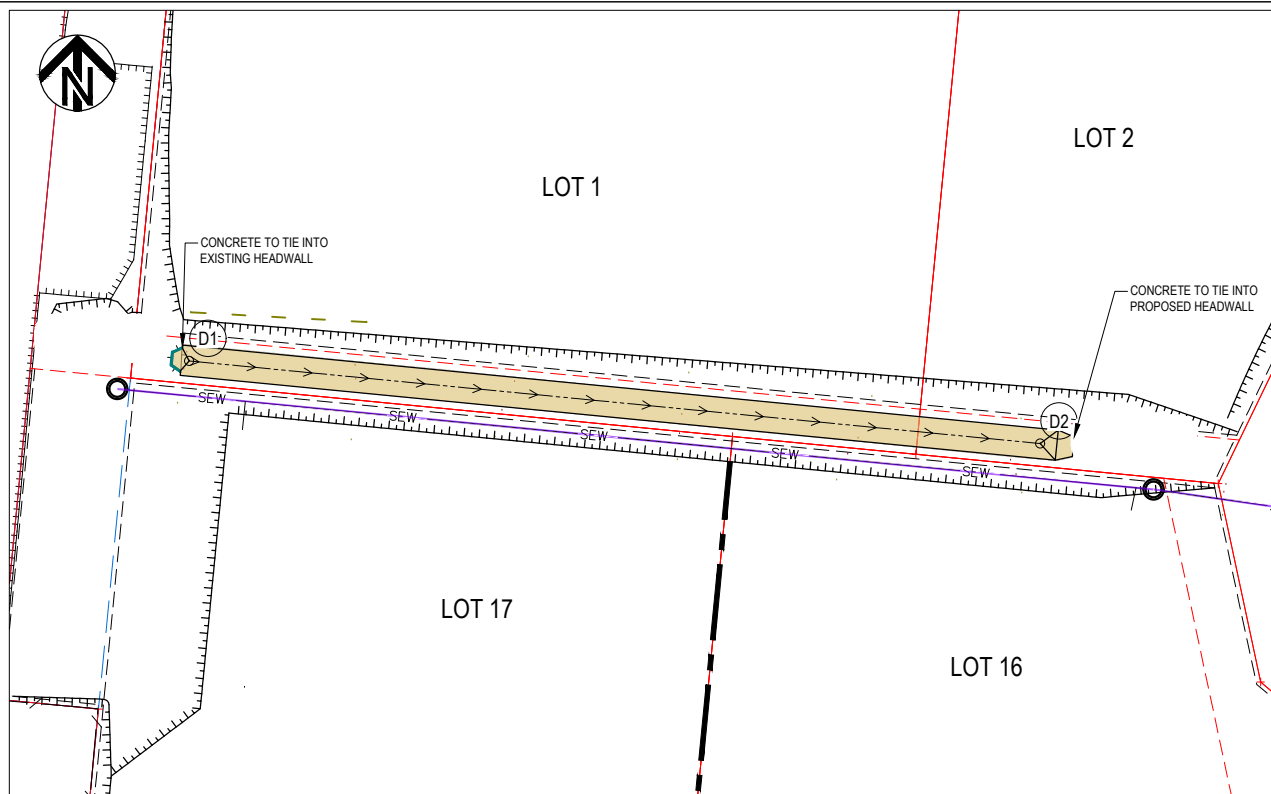


KERB RETURNS AND CUL DE SAC SETOUT

PT	EASTING	NORTHING	LEVEL
1	336466.865	8170808.494	5.688
2	336472.025	8170808.975	5.615
3	336476.976	8170807.445	5.475
4	336480.964	8170804.137	5.345
5	336483.383	8170799.554	5.298
6	336496.293	8170733.826	5.462
7	336494.797	8170728.865	5.536
8	336491.516	8170724.855	5.702
9	336486.950	8170722.405	5.864
10	336481.794	8170721.890	5.924
11	336422.448	8170727.643	6.118
12	336416.733	8170727.072	6.195
13	336411.672	8170724.357	6.327
14	336408.035	8170719.911	6.492
15	336406.376	8170714.413	6.580
16	336406.948	8170708.698	6.407
17	336409.663	8170703.636	6.255
18	336414.108	8170700.000	6.149
19	336419.607	8170698.341	6.114
20	336426.309	8170699.252	5.929
21	336431.896	8170703.065	5.907
22	336437.186	8170707.655	5.941
23	336443.389	8170710.908	5.939
24	336450.174	8170712.648	5.913
25	336457.176	8170712.783	5.888
26	336554.597	8170703.338	5.459
27	336559.387	8170702.480	5.536
28	336563.978	8170700.867	5.634
29	336568.251	8170698.539	5.703
30	336572.096	8170695.557	5.729
31	336576.042	8170692.975	5.709
32	336580.602	8170691.774	5.629
33	336586.317	8170692.346	5.563
34	336591.378	8170695.061	5.497
35	336595.015	8170699.506	5.431
36	336596.674	8170705.005	5.387
37	336596.102	8170710.720	5.447
38	336593.387	8170715.781	5.508
39	336588.942	8170719.418	5.568
40	336583.443	8170721.077	5.629
41	336578.737	8170720.774	5.709
42	336574.368	8170718.999	5.729
43	336570.022	8170716.811	5.703
44	336565.381	8170715.347	5.634
45	336560.566	8170714.645	5.536
46	336555.701	8170714.724	5.459
47	336519.616	8170718.223	5.687
48	336514.656	8170719.719	5.685
49	336510.645	8170723.000	5.606
50	336508.196	8170727.566	5.511
51	336507.680	8170732.722	5.462
52	336494.358	8170802.782	5.298
53	336493.878	8170807.950	5.318
54	336495.416	8170812.907	5.367
55	336498.736	8170816.896	5.405
56	336503.331	8170819.308	999.000

SETOUT POINTS ARE TO LIP OF KERB

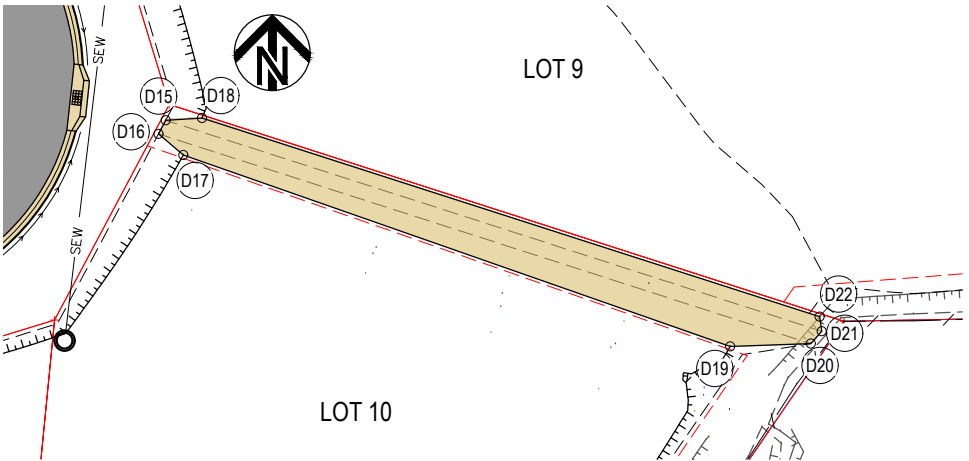
A 23.01.26 FOR COUNCIL APPROVAL		SCALE 1:500 DO NOT SCALE DRAWINGS Scales Before Reduction 2.5 0 2.5 5.0 7.5 10.0 12.5 m		DESIGNER OSE GROUP Address: 35 ABBOTT ST, CAIRNS 4870 Email: admin@osegroup.com.au		CLIENT K.A.N. Developments Pty Ltd		PROJECT CRAIGLIE BUSINESS PARK BOER STREET - CRAIGLIE 4877		TITLE KERB RETURN AND CUL DE SAC SETOUT PLAN	
REV	DATE	REVISION NOTES		DRAWN DM		DRAWING CHECK AMcP		APPROVED		SCALE (Scale as shown)	
				DESIGNED DM		DESIGN REVIEW AMcP		DATE -		DRAWING No 25235-C013	
										REV A	



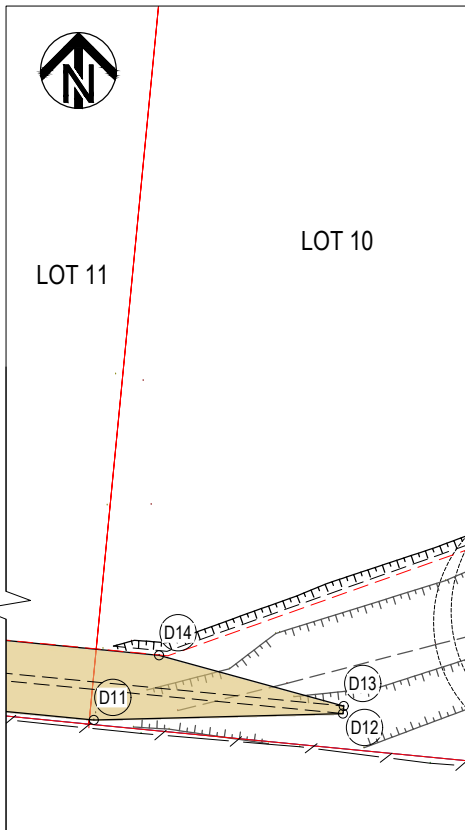
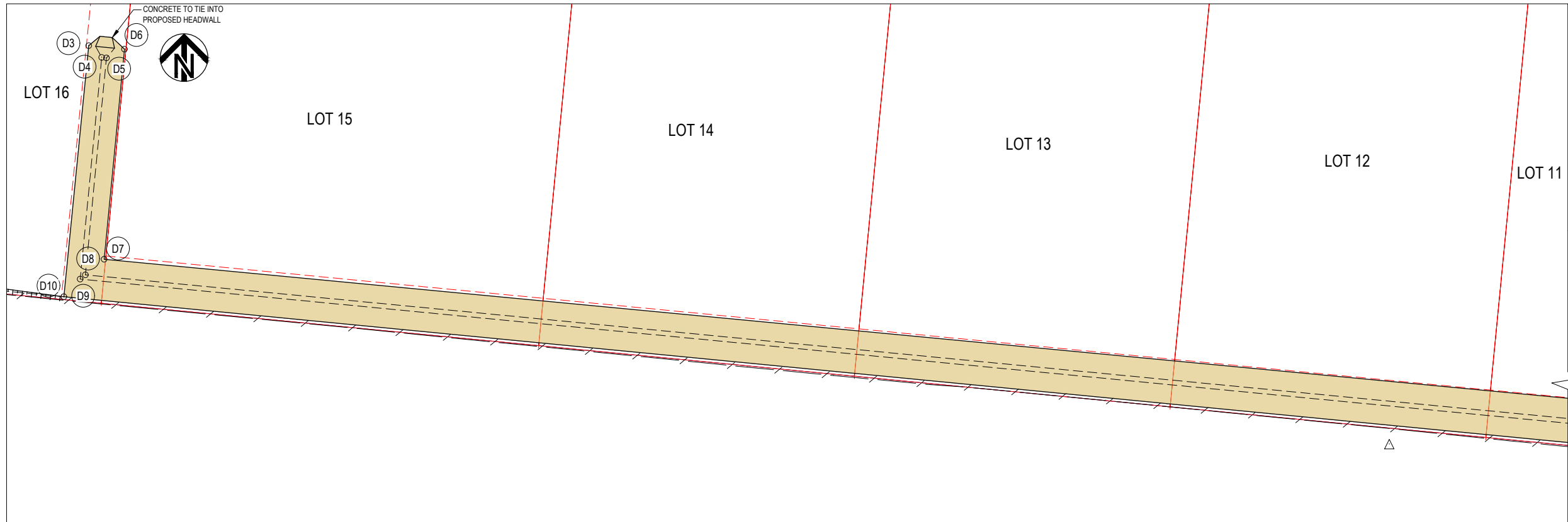
PLAN - CONCRETE LINED VEE DRAIN
WITHIN EASEMENT ALONG BDY OF LOTS 1, 16 & 17.
SCALE: 1:500
REFER TO SECTION 1 ON PLAN C05 FOR CONCRETE DETAILS

CONCRETE LINED DRAINS SETOUT

PT	EASTING	NORTHING	LEVEL
D1	336332.490	8170723.585	5.157
D2	336388.779	8170718.128	4.891
D3	336402.934	8170679.904	5.950
D4	336404.291	8170678.667	4.655
D5	336404.789	8170678.619	4.655
D6	336406.686	8170679.540	6.232
D7	336404.545	8170657.454	6.121
D8	336402.578	8170655.820	4.547
D9	336402.032	8170655.370	4.545
D10	336400.313	8170653.514	6.116
D11	336590.402	8170635.084	5.405
D12	336606.876	8170635.511	3.580
D13	336606.924	8170636.008	3.580
D14	336594.722	8170639.366	5.570
D15	336602.791	8170703.337	5.603
D16	336602.317	8170702.438	5.599
D17	336603.958	8170701.039	5.872
D18	336605.193	8170703.484	5.884
D19	336640.122	8170688.394	5.009
D20	336645.462	8170688.575	4.886
D21	336646.174	8170689.396	4.879
D22	336646.044	8170690.357	5.073

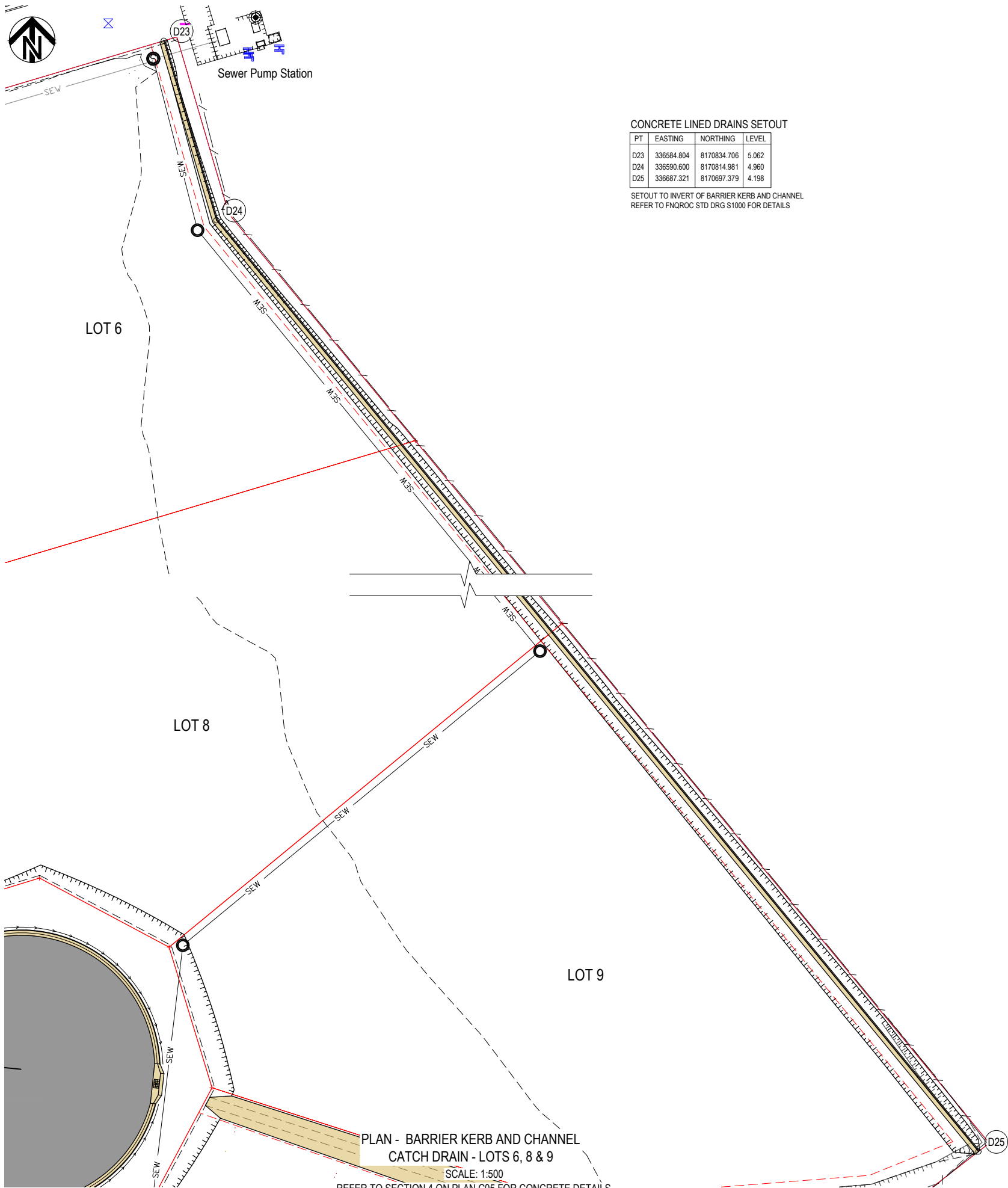


TYPICAL SECTION - CONCRETE LINED TABLE DRAIN
WITHIN EASEMENT ALONG BDY OF LOTS 9 & 10
SCALE: 1:500
REFER TO SECTION 3 ON PLAN C05 FOR CONCRETE DETAILS



PLAN - CONCRETE LINED TABLE DRAIN
WITHIN EASEMENT ALONG BDY OF LOTS 10 TO 16
SCALE: 1:500
REFER TO SECTION 2 ON PLAN C05 FOR CONCRETE DETAILS

A 23.01.26 FOR COUNCIL APPROVAL	SCALE 1:500 DO NOT SCALE DRAWINGS Scales Before Reduction 2.5 0 2.5 5.0 7.5 10.0 12.5 m	DESIGNER OSE GROUP Address: 35 ABBOTT ST, CAIRNS 4870 Email: admin@osegroup.com.au	CLIENT K.A.N. Developments Pty Ltd	PROJECT CRAIGLIE BUSINESS PARK BOER STREET - CRAIGLIE 4877	TITLE CONCRETE LINED DRAIN SETOUT PLAN SHEET 1 OF 2	
					SCALE (Scale as shown)	DRAWING No 25235-C014
REV DATE REVISION NOTES				DRAWN DM	DRAWING CHECK AMcP	APPROVED
				DESIGNED DM	DESIGN REVIEW AMcP	DATE -



CONCRETE LINED DRAINS SETOUT

PT	EASTING	NORTHING	LEVEL
D23	336584.804	8170834.706	5.062
D24	336590.600	8170814.981	4.960
D25	336687.321	8170697.379	4.198

SETOUT TO INVERT OF BARRIER KERB AND CHANNEL
REFER TO FNGROC STD DRG S1000 FOR DETAILS

PLAN - BARRIER KERB AND CHANNEL
CATCH DRAIN - LOTS 6, 8 & 9
SCALE: 1:500

REFER TO SECTION 4 ON PLAN C05 FOR CONCRETE DETAILS

SCALE 1:500	Orig. Sheet A3
DO NOT SCALE DRAWINGS	
Scales Before Reduction	
2.5 0 2.5 5.0 7.5 10.0 12.5 m	

DESIGNER



Address: 35 ABBOTT ST, CAIRNS 4870
Email: admin@osegroup.com.au

CLIENT

K.A.N. Developments Pty Ltd

PROJECT

CRAIGLIE BUSINESS PARK
BOER STREET - CRAIGLIE 4877

TITLE

CONCRETE LINED DRAIN SETOUT PLAN
SHEET 2 OF 2

DRAWN

DM

DRAWING CHECK

AMcP

APPROVED

DESIGNED

DM

DESIGN REVIEW

AMcP

DATE

-

SCALE

(Scale as shown)

DRAWING No

25235-C015

REV

A

A 23.01.26 FOR COUNCIL APPROVAL

REV DATE REVISION NOTES



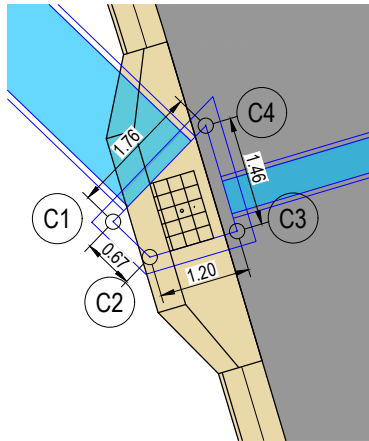
LEGEND

- CONTOUR (0.1m INTERVALS)
- 1% AEP PONDED WATER EXTENT AT SAG PITS & HEADWALL INLETS
- 1% AEP DRAINAGE FLOW WIDTH WITHIN KERB AND CHANNEL
- 4-1
0.3258ha
CATCHMENT BOUNDARY, LABEL AND AREA

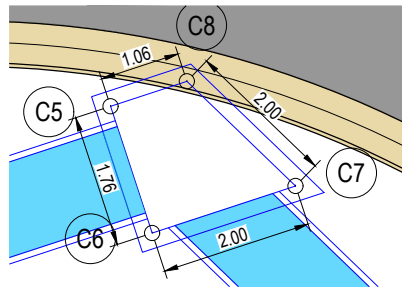
NOTES

- FOR OTHER SURVEY FEATURES NOT DISPLAYED IN THE LEGEND REFER TO C02 FOR SURVEY LEGEND
- FOR OTHER DESIGN FEATURES NOT DISPLAYED IN THE LEGEND REFER TO C04 FOR DESIGN LEGEND

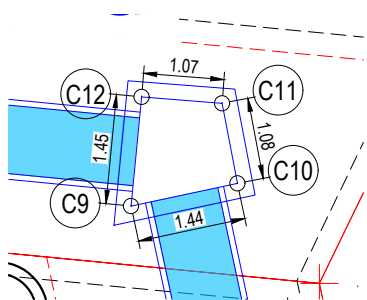
A 23.01.26 FOR COUNCIL APPROVAL		SCALE 1:1000 Orig. Sheet A3		DESIGNER  Address: 35 ABBOTT ST, CAIRNS 4870 Email: admin@osegroup.com.au	CLIENT K.A.N. Developments Pty Ltd	PROJECT CRAIGLIE BUSINESS PARK BOER STREET - CRAIGLIE 4877			TITLE FINISHED SURFACE LEVEL CONTOUR PLAN CATCHMENT PLAN AND 1% AEP FLOODED WIDTHS		
REV DATE REVISION NOTES		DO NOT SCALE DRAWINGS Scales Before Reduction 				DRAWN DM	DRAWING CHECK AMcP	APPROVED DATE -	SCALE (Scale as shown)	DRAWING No 25235-C016	REV A



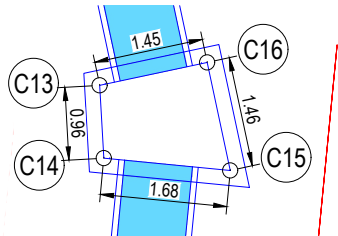
PLAN - KERB INLET PIT 5-2 (SAG)
CUSTOM CHAMBER
SCALE: 1:100



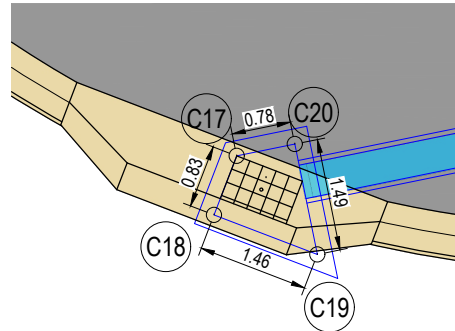
PLAN - STORMWATER MANHOLE 5-3
CUSTOM CHAMBER
SCALE: 1:100



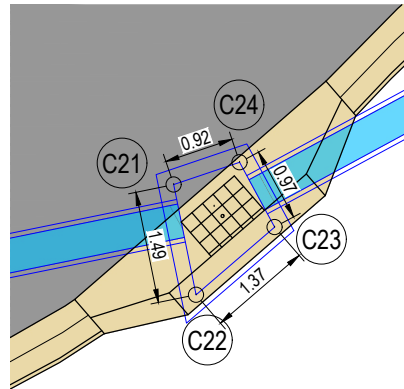
PLAN - STORMWATER MANHOLE 7-2
CUSTOM CHAMBER
SCALE: 1:100



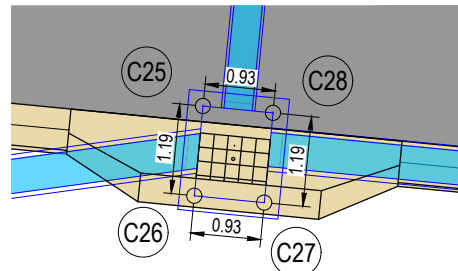
PLAN - STORMWATER MANHOLE 7-3
CUSTOM CHAMBER
SCALE: 1:100



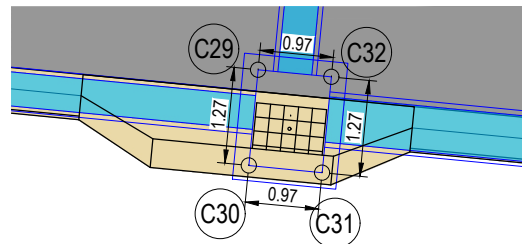
PLAN - KERB INLET PIT 8-1 (ON GRADE)
CUSTOM CHAMBER
SCALE: 1:100



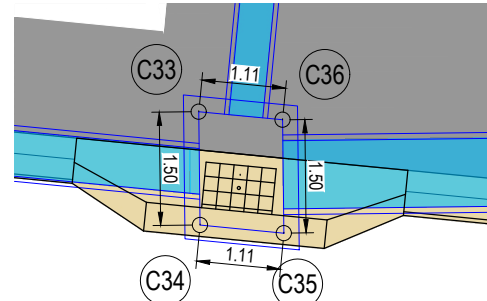
PLAN - KERB INLET PIT 8-2 (SAG)
CUSTOM CHAMBER
SCALE: 1:100



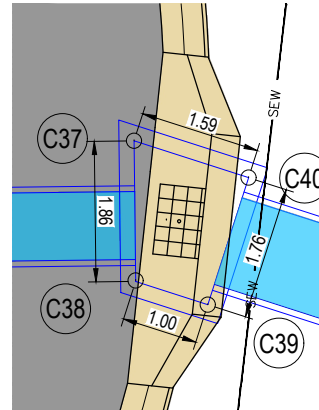
PLAN - KERB INLET PIT 8-4 (SAG)
CUSTOM CHAMBER
SCALE: 1:100



PLAN - KERB INLET PIT 8-5 (ON GRADE)
CUSTOM CHAMBER
SCALE: 1:100



PLAN - KERB INLET PIT 8-6 (SAG)
CUSTOM CHAMBER
SCALE: 1:100



PLAN - KERB INLET PIT 8-7 (SAG)
CUSTOM CHAMBER
SCALE: 1:100

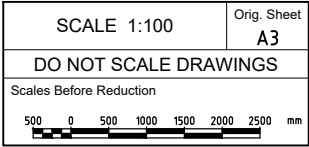
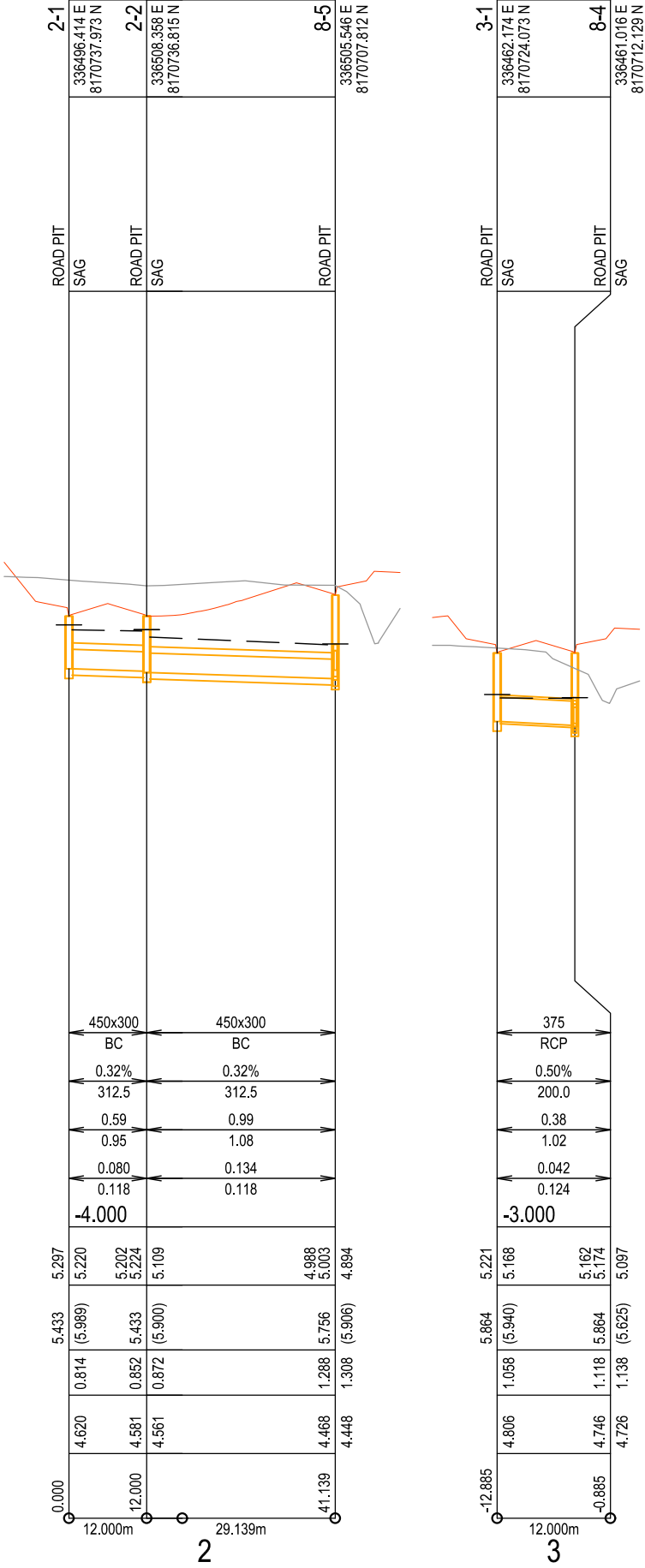
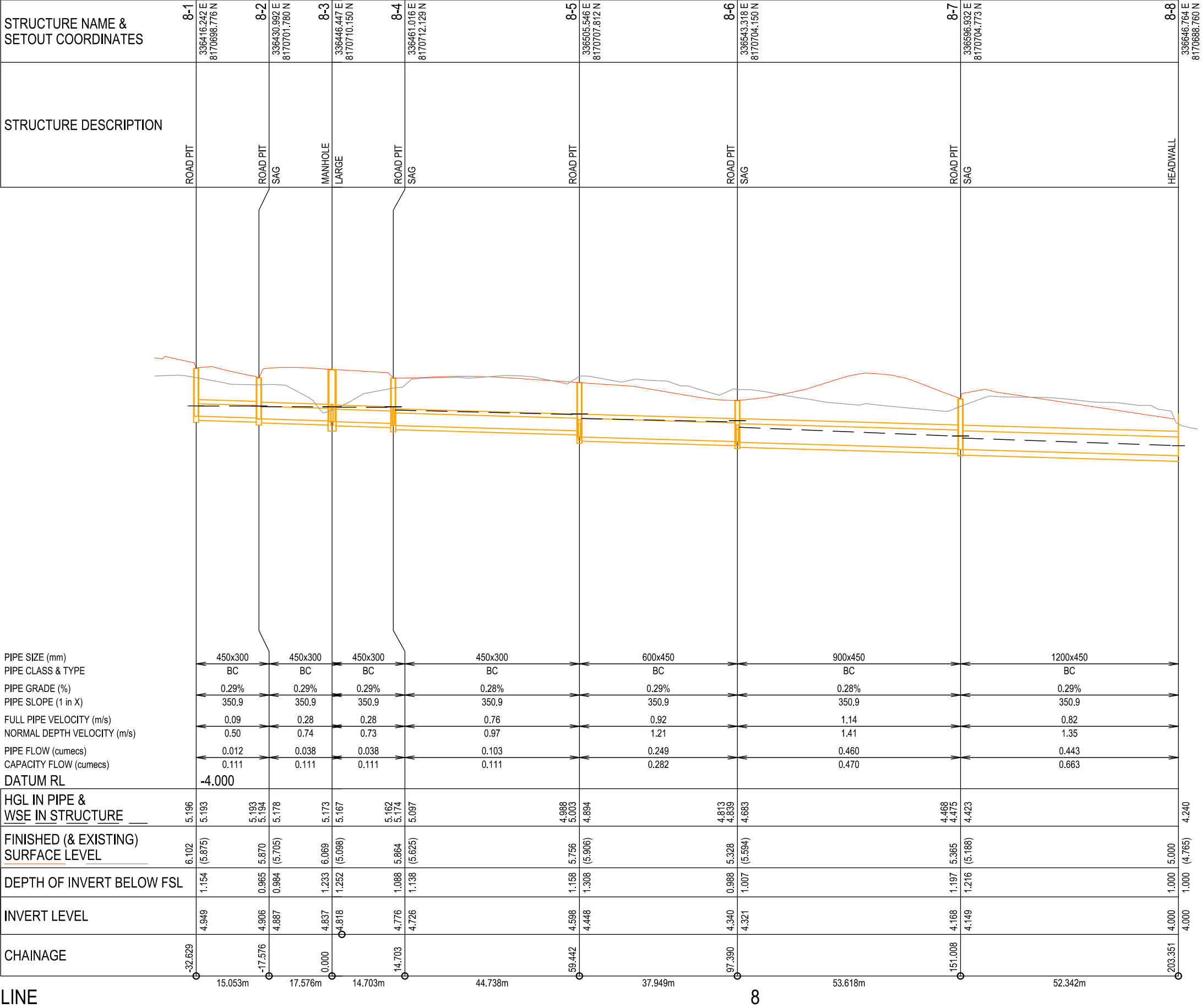
INTERNAL STORMWATER CHAMBER SETOUT*

PT	EASTING	NORTHING
C1	336482.687	8170797.115
C2	336483.173	8170796.648
C3	336484.327	8170796.991
C4	336483.912	8170798.385
C5	336472.561	8170808.020
C6	336473.111	8170806.344
C7	336475.008	8170806.966
C8	336473.570	8170808.351
C9	336398.065	8170716.501
C10	336399.472	8170716.801
C11	336399.269	8170717.861
C12	336398.205	8170717.944
C13	336404.437	8170686.644
C14	336404.491	8170685.681
C15	336406.164	8170685.519
C16	336405.859	8170686.948
C17	336415.871	8170699.221
C18	336415.572	8170698.441
C19	336416.937	8170697.917
C20	336416.640	8170699.377
C21	336430.297	8170702.135
C22	336430.594	8170700.678
C23	336431.633	8170701.573
C24	336431.169	8170702.430
C25	336460.601	8170712.659
C26	336460.486	8170711.472
C27	336461.411	8170711.383
C28	336461.526	8170712.569
C29	336505.116	8170708.424
C30	336504.993	8170707.157
C31	336505.963	8170707.063
C32	336506.086	8170708.330
C33	336542.769	8170704.991
C34	336542.787	8170703.493
C35	336543.895	8170703.386
C36	336543.878	8170704.883
C37	336596.345	8170705.888
C38	336596.367	8170704.040
C39	336597.321	8170703.722
C40	336597.860	8170705.401

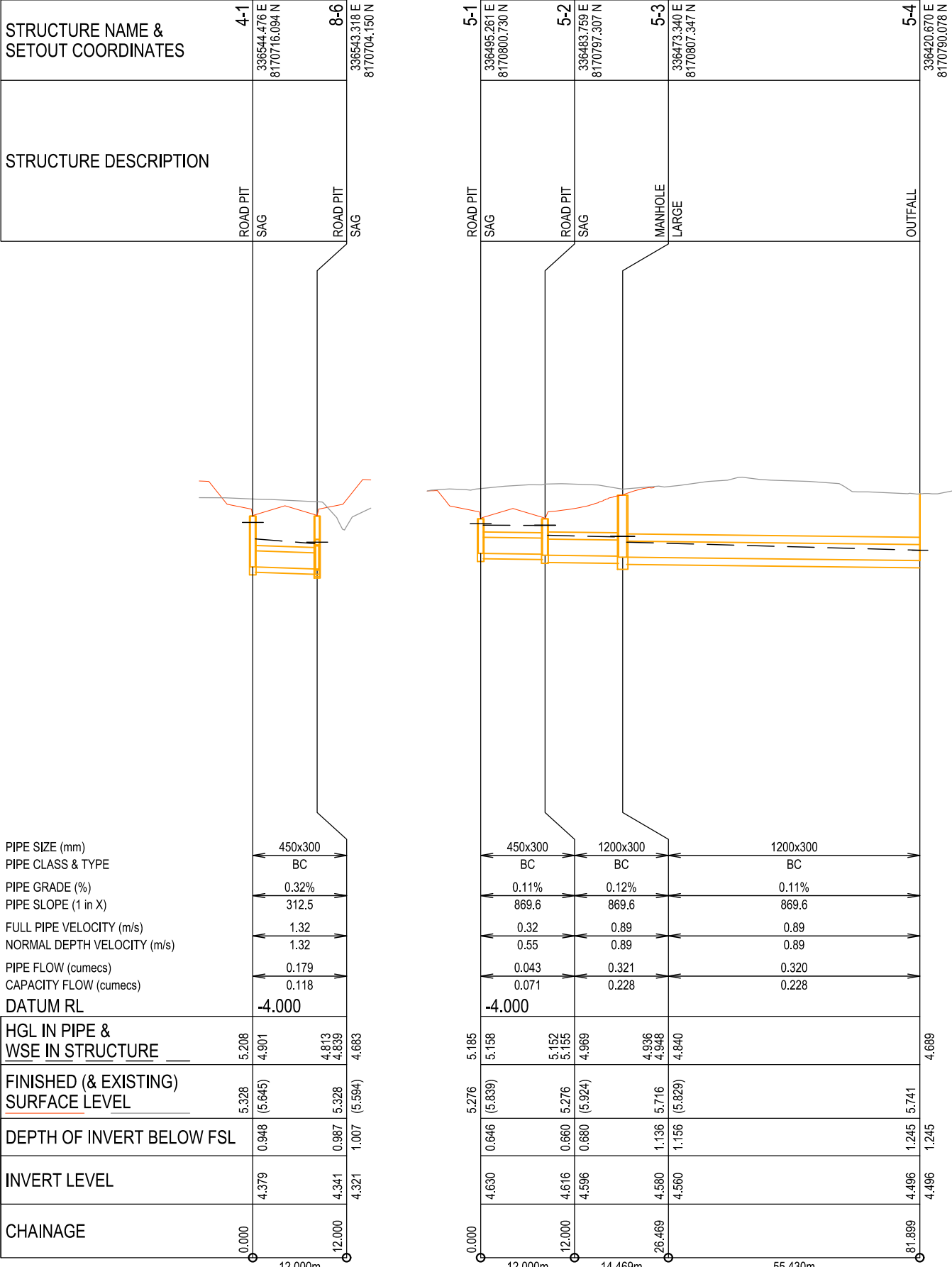
NOTES

- *SETOUT POINTS ARE TOO INTERNAL WALL CORNERS. SETOUT HAS BEEN GIVEN AS A GUIDE AND MAY BE ADJUSTED TO SUIT PREVAILING SITE CONDITIONS UNDER DIRECTION OF THE SUPERINTENDENT
- CHAMBER WALLS AND BASES SHALL BE AS PER REINFORCEMENT DETAILED ON FNQROC STD DRG S1055.
- ROOF OF CHAMBERS SHALL BE AS PER FNQROC STD DRG S1066 INCLUSIVE OF CHAMBER ACCESS PORT.

10% AEP STORM EVENT
SETOUT COORDINATES SHOWN FOR ROAD PITS ARE ALONG KERB INVERT LINE
SETOUT COORDINATES SHOWN FOR MANHOLES ARE TO CENTRE OF CHAMBER
SETOUT COORDINATES SHOWN FOR HEADWALLS ARE TO CENTRE OF PIPE AT EXTENTS

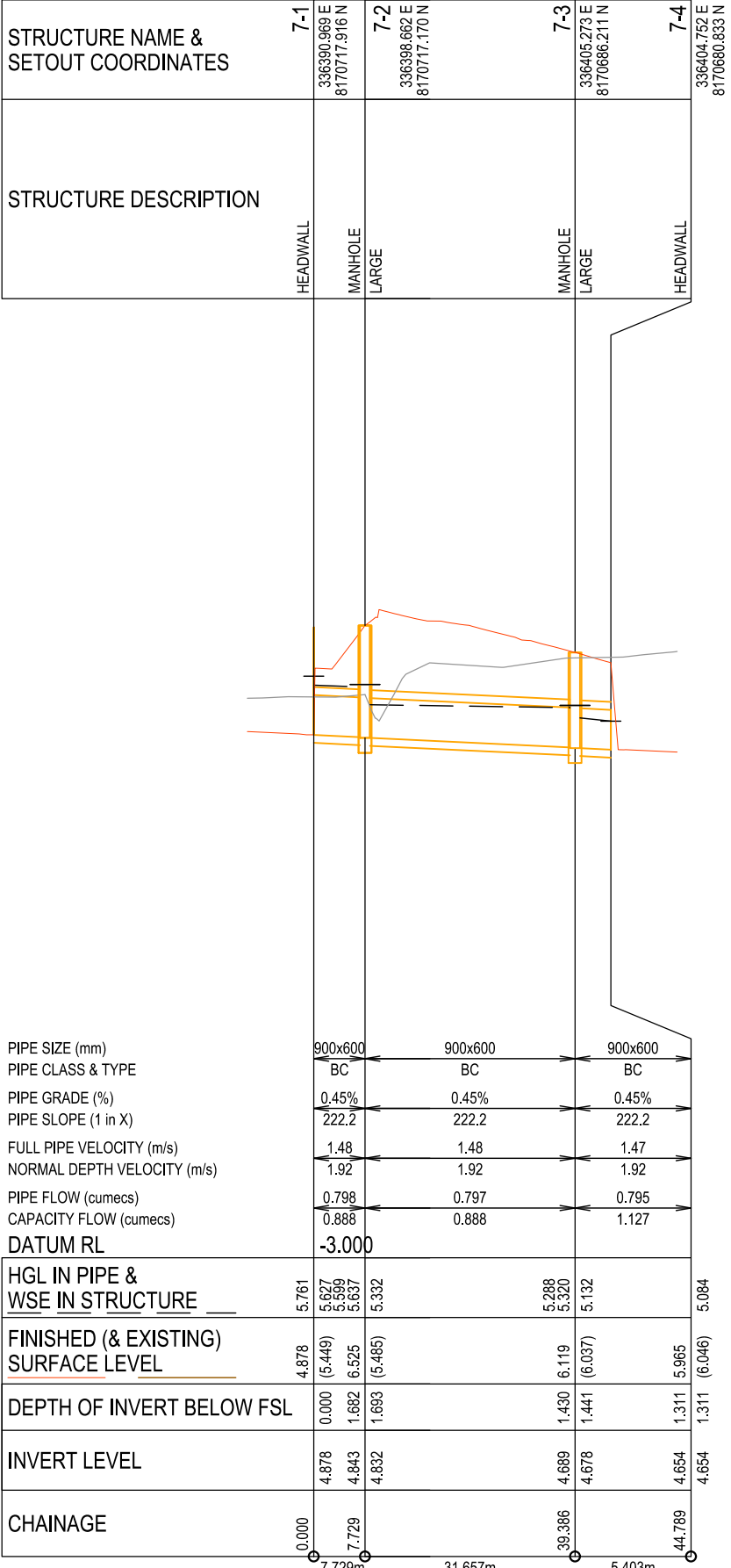


10% AEP STORM EVENT
SETOUT COORDINATES SHOWN FOR ROAD PITS ARE ALONG KERB INVERT LINE
SETOUT COORDINATES SHOWN FOR MANHOLES ARE TO CENTRE OF CHAMBER
SETOUT COORDINATES SHOWN FOR HEADWALLS ARE TO CENTRE OF PIPE AT EXTENTS



LINE 4

1% AEP STORM EVENT
SETOUT COORDINATES SHOWN FOR MANHOLES ARE TO CENTRE OF CHAMBER
SETOUT COORDINATES SHOWN FOR HEADWALLS ARE TO CENTRE OF PIPE AT EXTENTS



LINE 7

10% AEP EVENT HYDROLOGY

NODE	NODE	SETOUT	SETOUT	SETOUT	GRATE	COVER	CATCH	TC	TIME	INTENSITY	RUNOFF	AREA	FULL	FULL	FULL	PARTIAL	PARTIAL	PARTIAL	CATCHMEN T	APPROACH	ROAD	FLOODED	FLOODED	FLOODED	ROAD	ROAD	MAX POND	INLET	INLET	BYPASS	BYPASS
NAME	TYPE	EASTING	NORTHING	RL	RL	RL	ID	METHOD	TC	I	C	A	CA	SUM CA	QC=CIA	CA	SUM CA	QC=CIA	FLOW QC	FLOW QA	CAPACITY	DEPTH	WIDTH	VEL.DEP	GRADE	XFALL	DEPTH	CURVE NAME	FLOW QG	FLOW QB	NODE
(-)	(-)	(M)	(M)	(M)	(M)	(M)	(-)	(-)	(MIN)	(MM/HR)	(-)	(HA)	(HA)	(HA)	(L/S)	(HA)	(HA)	(L/S)	(L/S)	(L/S)	(L/S)	(M)	(M)	(SQ.M/S)	(%)	(%)	(M)	(-)	(L/S)	(L/S)	(-)
8-1	RD PIT	336416.24	8170698.78	6.10	6.10	6.10	1P	DIRECT	5.00	223.00	0.75	0.0253	0.0190	0.0192	11.9	0.0190	0.0192	11.9	11.9	11.9	1524.5	0.048	1.32	0.02	0.9	2.9		1G,3.3X	11.9		8-2
8-2	SAG RD PIT	336430.99	8170701.78	5.87	5.87	5.87	1P	DIRECT	5.00	223.00	0.75	0.0048	0.0036	0.0422	26.1	0.0036	0.0422	26.1	26.1	26.1	49.6	0.026					0.050	SAG	26.1		8-4
							1I	DIRECT	5.00	223.00	0.90	0.0429	0.0386			0.0386															
8-3	MH L	336446.45	8170710.15	6.07	6.07	6.07																									-
8-4	SAG RD PIT	336461.02	8170712.13	5.86	5.86	5.86	1P	DIRECT	5.00	223.00	0.75	0.0044	0.0033	0.0390	24.2	0.0033	0.0390	24.2	24.2	24.2	42.4	0.024					0.042	SAG	24.2		8-5
							1I	DIRECT	5.00	223.00	0.90	0.0397	0.0357			0.0357															
8-5	RD PIT	336505.55	8170707.81	5.76	5.76	5.76	1P	DIRECT	5.00	223.00	0.75	0.0029	0.0022	0.0259	16.0	0.0022	0.0259	16.0	16.0	16.0	638.9	0.055	1.56	0.02	0.7	3.0		0.5G,3.3X	16.0		8-6
							1I	DIRECT	5.00	223.00	0.90	0.0263	0.0237			0.0237															
8-6	SAG RD PIT	336543.32	8170704.15	5.33	5.33	5.33	1P	DIRECT	5.00	223.00	0.75	0.0078	0.0058	0.0688	42.6	0.0058	0.0688	42.6	42.6	42.6	337.5	0.043					0.192	SAG	42.6		8-7
							1I	DIRECT	5.00	223.00	0.90	0.0700	0.0630			0.0630															
8-7	SAG RD PIT	336596.93	8170704.77	5.37	5.37	5.37	1P	DIRECT	5.00	223.00	0.75	0.0321	0.0241	0.2844	176.2	0.0241	0.2844	176.2	176.2	176.2	0.0	0.000					-0.265	SAG	0.0	176.2	LOST
							1I	DIRECT	5.00	223.00	0.90	0.2892	0.2603			0.2603															
8-8	HW OUT	336646.76	8170688.76	5.00	5.00	5.00																									-
2-1	SAG RD PIT	336496.41	8170737.97	5.43	5.43	5.43	1P	DIRECT	5.00	223.00	0.75	0.0092	0.0069	0.0813	50.4	0.0069	0.0813	50.4	50.4	80.3	337.2	0.072					0.191	SAG	80.3		2-2
							1I	DIRECT	5.00	223.00	0.90	0.0827	0.0744			0.0744															
2-2	SAG RD PIT	336508.36	8170736.81	5.43	5.43	5.43	1P	DIRECT	5.00	223.00	0.75	0.0099	0.0074	0.0878	54.4	0.0074	0.0878	54.4	54.4	54.4	337.2	0.054					0.191	SAG	54.4		4-1
							1I	DIRECT	5.00	223.00	0.90	0.0892	0.0803			0.0803															
3-1	SAG RD PIT	336462.17	8170724.07	5.86	5.86	5.86	1P	DIRECT	5.00	223.00	0.75	0.0132	0.0099	0.1168	72.4	0.0099	0.1168	72.4	72.4	72.4	42.4	0.042					0.042	SAG	42.4	29.9	2-1
							1I	DIRECT	5.00	223.00	0.90	0.1188	0.1069			0.1069															
4-1	SAG RD PIT	336544.48	8170716.09	5.33	5.33	5.33	1P	DIRECT	5.00	223.00	0.75	0.0326	0.0244	0.2884	178.6	0.0244	0.2884	178.6	178.6	178.6	337.5	0.113					0.192	SAG	178.6		8-7
							1I	DIRECT	5.00	223.00	0.90	0.2932	0.2639			0.2639															
5-1	SAG RD PIT	336495.26	8170800.73	5.28	5.28	5.28	1P	DIRECT	5.00	223.00	0.75	0.0078	0.0059	0.0691	42.8	0.0059	0.0691	42.8	42.8	42.8	194.9	0.043					0.119	SAG	42.8		-
							1I	DIRECT	5.00	223.00	0.90	0.0702	0.0632			0.0632															
5-2	SAG RD PIT	336483.76	8170797.31	5.28	5.28	5.28	1P	DIRECT	5.00	223.00	0.75	0.0510	0.0382	0.4509	279.3	0.0382	0.4509	279.3	279.3	279.3	337.4	0.151					0.191	SAG	279.3		-
							1I	DIRECT	5.00	223.00	0.90	0.4586	0.4127			0.4127															
5-3	MH L	336473.34	8170807.35	5.72	5.72	5.72																									-
5-4	OUT	336420.67	8170790.08	5.92	5.74	5.74																									-
8-1	RD PIT	336416.24	8170698.78	6.10	6.10	6.10	1P	DIRECT	5.00	223.00	0.75	0.0253	0.0190	0.0192	11.9	0.0190	0.0192	11.9	11.9	11.9	1524.5	0.048	1.32	0.02	0.9	2.9		1G,3.3X	11.9		8-2
							1I	DIRECT	5.00	223.00	0.90	0.0002	0.0002			0.0002															
8-2	SAG RD PIT	336430.99	8170701.78	5.87	5.87	5.87	1P	DIRECT	5.00	223.00	0.75	0.0048	0.0036	0.0422	26.1	0.0036	0.0422	26.1	26.1	26.1	49.6	0.026					0.050	SAG	26.1		8-4
							1I	DIRECT	5.00	223.00	0.90	0.0429	0.0386			0.0386															

1% AEP EVENT HYDROLOGY

NODE	NODE	SETOUT	SETOUT	SETOUT	GRATE	COVER	CATCH	TC	TIME	INTENSITY	RUNOFF	AREA	FULL	FULL	FULL	PARTIAL	PARTIAL	PARTIAL	CATCHME NT	DIRECT	APPROAC H	ROAD	FLOODED	FLOODED	FLOODED	ROAD	ROAD	MAX POND	CHOKE	INLET	INLET	BYPASS	BYPASS
NAME	TYPE	EASTING	NORTHING	RL	RL	RL	ID	METHOD	TC	I	C	A	CA	SUM CA	QC=CIA	CA	SUM CA	QC=CIA	FLOW QC	FLOW QDG	FLOW QA	CAPACITY	DEPTH	WIDTH	VEL.DEP	GRADE	XFALL	DEPTH	FACTOR	CURVE NAME	FLOW QG	FLOW QB	NODE
(-)	(-)	(M)	(M)	(M)	(M)	(M)	(-)	(-)	(MIN)	(MM/HR)	(-)	(HA)	(HA)	(HA)	(L/S)	(HA)	(HA)	(L/S)	(L/S)	(L/S)	(L/S)	(L/S)	(M)	(M)	(SQ.M/S)	(%)	(%)	(M)	(-)	(-)	(L/S)	(L/S)	(-)
7-1	HW IN	336390.97	8170717.92	4.88	6.50	6.50	1P	DIRECT	5.00	302.00	0.75	0.0331	0.0249	0.2933	246.1	0.0249	0.2933	246.1	246.1	551.9	798.0									798.0		-	
							1I	DIRECT	5.00	302.00	0.90	0.2983	0.2685			0.2685																	
7-2	MH L	336398.66	8170717.17	6.52	6.52	6.52																										-	
7-3	MH L	336405.27	8170686.21	6.12	6.12	6.12																										-	
7-4	HW OUT	336404.75	8170680.83	5.25	5.25	5.25																										-	

A 23.01.26 FOR COUNCIL APPROVAL

REV DATE REVISION NOTES

SCALE 1:100

DO NOT SCALE DRAWINGS

Scales Before Reduction

500 0 500 1000 1500 2000 2500 mm

DESIGNER



Address: 35 ABBOTT ST, CAIRNS 4870
Email: admin@osegroup.com.au

CLIENT

K.A.N. Developments Pty Ltd

PROJECT

CRAIGLIE BUSINESS PARK
BOER STREET - CRAIGLIE 4877

DRAWN DM

DESIGNED DM

DRAWING CHECK AMcP

DESIGN REVIEW AMcP

APPROVED

DATE -

TITLE

DRAINAGE CALCULATION TABLES - HYDROLOGY

SCALE (Scale as shown)

DRAWING No

25235-C020

REV A

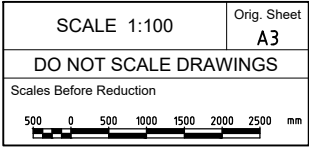
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10% AEP EVENT HYDRAULICS

PIPE	PIPE	PIPE	PIPE	FULL PIPE	PIPE	PIPE	FULL-A REA	FULL-A REA	FULL-A REA	FULL-A REA	PART-A REA	PART-A REA	PART-A REA	PART-A REA	CATCHM ENT	PEAK	NET BYPASS	PIPE	CAPACIT Y	Q/QCAP	FULL PIPE	NORM DEPTH	CRIT DEPTH	CAPACIT Y VEL	US NODE	PIPE	PIPE	DS NODE	COVER	COVER	PIPE	PIPE	US NODE	US NODE	PIPE	P'HEAD LOSS	WSE LOSS	PIPE	US NODE	PIPE	PIPE	DS NODE	HGL	HGL	F'BOARD	F'BOARD		
ID	TYPE	LENGTH	SIZE	AREA AF	GRADE	GRADE	TCT	I	SUM CA	QC=CA	TCT	I	SUM CA	QC=CA	FLOW QC	FLOW QRAT	FLOW QB	FLOW Q	FLOW QCAP	RATIO	VEL VF=Q/AF	VEL VN=Q/AN	VEL VC=Q/AC	VCAP=Q CAP/AF	GRATE RL	US IL	DS IL	GRATE RL	LIMIT	MIN	DS BEND	DS DROP	KU	KW	V'HEAD	(KU,V'H EAD)	(KW,V'H EAD)	T'HEAD LOSS	HGL	US HGL	DS HGL	HGL	GRADE	GRADE	LIMIT	US		
(-)	(-)	(M)	(MM)	(SQ.M)	(%)	(1 IN)	(MIN)	(MM/HR)	(HA)	(L/S)	(MIN)	(MM/HR)	(HA)	(L/S)	(L/S)	(L/S)	(L/S)	(L/S)	(L/S)	(-)	(M/S)	(M/S)	(M/S)	(M/S)	(M)	(M)	(M)	(M)	(M)	(M)	(DEG)	(M)	(-)	(-)	(M)	(M)	(M)	(M)	(M)	(M)	(M)	(M)	(M)	(M)	(M)	(M)	(M)	(M)
8-1 TO 8-2	BC	15.05	450X300	0.135	0.29	350.9	5.00	223.00	0.0192	11.9	5.00	223.00	0.0192	11.9	11.9	11.9		11.9	111.3	0.11	0.09	0.50	0.64	0.82	6.10	4.95	4.91	5.87	0.20	0.56	-16.9	0.019	7.00		0.00	0.00		0.00		0.00	5.20	5.19	5.19	5.19	0.00	59352.4	0.15	0.91
8-2 TO 8-3	BC	17.58	450X300	0.135	0.29	350.9	5.13	221.87	0.0613	37.8	5.00	223.00	0.0609	37.7	37.8	37.8		37.8	111.3	0.34	0.28	0.74	0.94	0.82	5.87	4.89	4.84	6.07	0.20	0.59	20.7	0.019	3.78	4.06	0.00	0.02	0.02	0.01	5.19	5.18	5.17	5.17	0.03	3598.0	0.15	0.68		
8-3 TO 8-4	BC	14.70	450X300	0.135	0.29	350.9	5.27	220.55	0.0613	37.6	5.15	221.68	0.0609	37.5	37.6	37.6		37.6	111.3	0.34	0.28	0.73	0.94	0.82	6.07	4.82	4.78	5.86	0.20	0.69	13.3	0.050	1.63	1.97	0.00	0.01	0.01	0.00	5.17	5.17	5.16	5.17	0.03	3079.7	0.15	0.89		
8-4 TO 8-5	BC	44.74	450X300	0.135	0.28	350.9	5.39	219.45	0.2172	132.4	5.27	220.58	0.2167	132.8	132.8	132.8	-29.9	102.9	111.3	0.92	0.76	0.97	1.31	0.82	5.86	4.73	4.60	5.76	0.20	0.74	0.0	0.150	2.20	2.60	0.03	0.07	0.08	0.11	5.17	5.10	4.99	5.00	0.24	411.2	0.15	0.69		
8-5 TO 8-6	BC	37.95	600X450	0.270	0.29	350.9	5.77	216.09	0.4122	247.4	5.47	218.74	0.4096	248.9	248.9	248.9		248.9	282.4	0.88	0.92	1.21	1.60	1.05	5.76	4.45	4.34	5.33	0.20	0.44	-6.2	0.019	2.17	2.52	0.04	0.09	0.11	0.08	5.00	4.89	4.81	4.84	0.21	468.1	0.15	0.75		
8-6 TO 8-7	BC	53.62	900X450	0.405	0.28	350.9	6.08	213.25	0.7694	455.7	5.79	215.90	0.7668	459.9	459.9	459.9		459.9	469.5	0.98	1.14	1.41	1.71	1.16	5.33	4.32	4.17	5.37	0.20	0.44	18.5	0.019	1.98	2.38	0.07	0.13	0.16	0.17	4.84	4.68	4.47	4.47	0.40	249.6	0.15	0.49		
8-7 TO 8-8	BC	52.34	1200X450	0.540	0.29	350.9	6.53	209.23	1.0538	612.5	6.11	213.05	1.0464	619.2	619.2	619.2	-176.2	443.1	663.4	0.67	0.82	1.35	1.54	1.23	5.37	4.15	4.00	5.00	0.20	0.29	0.0		1.30	1.51	0.03	0.04	0.05	0.16	4.47	4.42	4.24	4.24	0.35	286.7	0.15	0.89		
2-1 TO 2-2	BC	12.00	450X300	0.135	0.32	312.5	5.00	223.00	0.0813	50.4	5.00	223.00	0.0813	50.4	50.4	50.4	29.9	80.3	118.0	0.68	0.59	0.95	1.20	0.87	5.43	4.62	4.58	5.43	0.20	0.44	90.0	0.020	4.26		0.02	0.08		0.02	5.30	5.22	5.20	5.22	0.15	674.4	0.15	0.14		
2-2 TO 8-5	BC	29.14	450X300	0.135	0.32	312.5	5.10	222.10	0.1691	104.3	5.00	223.00	0.1675	103.7	104.3	104.3	29.9	134.2	118.0	1.14	0.99	1.08	1.43	0.87	5.43	4.56	4.47	5.76	0.20	0.47	-90.0	0.020	1.85	2.28	0.05	0.09	0.12	0.12	5.22	5.11	4.99	5.00	0.41	241.3	0.15	0.21		
3-1 TO 8-4	RCP	12.00	375	0.110	0.50	200.0	5.00	223.00	0.1168	72.4	5.00	223.00	0.1168	72.4	72.4	72.4	-29.9	42.4	124.0	0.34	0.38	1.02	1.04	1.12	5.86	4.81	4.75	5.86	0.20	0.67	-90.0	0.020	7.00		0.01	0.05		0.01	5.22	5.17	5.16	5.17	0.05	1885.4	0.15	0.64		
4-1 TO 8-6	BC	12.00	450X300	0.135	0.32	312.5	5.00	223.00	0.2884	178.6	5.00	223.00	0.2884	178.6	178.6	178.6		178.6	118.0	1.51	1.32	1.32	1.57	0.87	5.33	4.38	4.34	5.33	0.20	0.57	-96.2	0.020	3.44		0.09	0.31		0.09	5.21	4.90	4.81	4.84	0.73	136.3	0.15	0.12		
5-1 TO 5-2	BC	12.00	450X300	0.135	0.11	869.6	5.00	223.00	0.0691	42.8	5.00	223.00	0.0691	42.8	42.8	42.8		42.8	70.7	0.60	0.32	0.55	0.98	0.52	5.28	4.63	4.62	5.28	0.30	0.27	60.5	0.020	5.46		0.01	0.03		0.01	5.19	5.16	5.15	5.16	0.04	2377.2	0.15	0.09		
5-2 TO 5-3	BC	14.47	1200X300	0.360	0.12	869.6	5.10	222.10	0.5200	320.8	5.00	223.00	0.5186	321.2	321.2	321.2		321.2	228.5	1.41	0.89	0.89	1.38	0.63	5.28	4.60	4.58	5.72	0.30	0.25	-62.1	0.020	4.51	4.58	0.04	0.18	0.19	0.03	5.16	4.97	4.94	4.95	0.23	439.8	0.15	0.12		
5-3 TO 5-4	BC	55.43	1200X300	0.360	0.11	869.6	5.22	221.01	0.5200	319.2	5.12	221.91	0.5186	319.7	319.7	319.7		319.7	228.5	1.40	0.89	0.89	1.38	0.63	5.72	4.56	4.50	5.74	0.20	0.74	0.0		2.40	2.69	0.04	0.10	0.11	0.10	4.95	4.84	4.69	4.69	0.27	368.3	0.15	0.77		

1% AEP EVENT HYDRAULICS

PIPE	PIPE	PIPE	PIPE	FULL PIPE	PIPE	PIPE	FULL-A REA	FULL-A REA	FULL-A REA	FULL-A REA	PART-A REA	PART-A REA	PART-A REA	PART-A REA	CATCHM ENT	DIRECT NODE	PEAK	PIPE	CAPACIT Y	Q/QCAP	FULL PIPE	NORM DEPTH	CRIT DEPTH	CAPACIT Y VEL	US NODE	PIPE	PIPE	DS NODE	COVER	COVER	PIPE	PIPE	US NODE	US NODE	PIPE	P'HEAD LOSS	WSE LOSS	PIPE	US NODE	PIPE	PIPE	DS NODE	HGL	HGL	F'BOARD	F'BOARD				
ID	TYPE	LENGTH	SIZE	AREA AF	GRADE	GRADE	TCT	I	SUM CA	QC=CA	TCT	I	SUM CA	QC=CA	FLOW QC	FLOW QDG	FLOW QRAT	FLOW Q	FLOW QCAP	RATIO	VEL VF=Q/A F	VEL VN=Q/A N	VEL VC=Q/A C	VCAP=Q CAP/AF	GRATE RL	US IL	DS IL	GRATE RL	LIMIT	MIN	DS BEND	DS DROP	KU	KW	V'HEAD	(KU,V'H EAD)	(KW,V'H EAD)	T'HEAD LOSS	HGL	US HGL	DS HGL	HGL	GRADE	GRADE	LIMIT	US				
(-)	(-)	(M)	(MM)	(SQ.M)	(%)	(1 IN)	(MIN)	(MM/HR)	(HA)	(L/S)	(MIN)	(MM/HR)	(HA)	(L/S)	(L/S)	(L/S)	(L/S)	(L/S)	(L/S)	(-)	(M/S)	(M/S)	(M/S)	(M/S)	(M)	(M)	(M)	(M)	(M)	(M)	(M)	(M)	(-)	(-)	(M)	(M)	(M)	(M)	(M)	(M)	(M)	(M)	(M)	(M)	(M)	(M)	(M)	(M)	(M)	(M)
7-1 TO 7-2	BC	7.73	900X600	0.540	0.45	222.2	5.00	302.00	0.2933	246.1	5.00	302.00	0.2933	246.1	246.1	551.9	798.0	798.0	888.3	0.90	1.48	1.92	2.06	1.65	6.50	4.88	4.84	6.52	0.20	-0.72	72.4	0.011	1.20		0.11	0.13		0.03	5.76	5.63	5.60	5.64	0.36	275.4	1.00	0.74				
7-2 TO 7-3	BC	31.66	900X600	0.540	0.45	222.2	5.06	301.24	0.2933	245.4	5.06	301.24	0.2933	245.4	245.4	551.9	797.3	797.3	888.3	0.90	1.48	1.92	2.06	1.65	6.52	4.83	4.69	6.12	0.20	0.73	17.6	0.011	2.40	2.75	0.11	0.27	0.31	0.09	5.64	5.33	5.29	5.32	0.14	732.0	0.15	0.89				
7-3 TO 7-4	BC	5.40	900X600	0.540	0.45	222.2	5.33	298.13	0.2933	242.9	5.33	298.13	0.2933	242.9	242.9	551.9	794.8	794.8	1126.6	0.71	1.47	1.92	2.05	2.09	6.12	4.68	4.65	5.25		0.0		1.41	1.70	0.11	0.16	0.19	0.03	5.32	5.13	5.08	5.08	0.89	112.4	0.15	0.80					



DESIGNER



Address: 35 ABBOTT ST, CAIRNS 4870
Email: admin@osegroup.com.au

CLIENT

K.A.N. Developments Pty Ltd

PROJECT

CRAIGLIE BUSINESS PARK
BOER STREET - CRAIGLIE 4877

DRAWN

DM

DRAWING CHECK

AMcP

APPROVED

DATE

-

TITLE

DRAINAGE CALCULATION TABLES - HYDRAULICS

SCALE

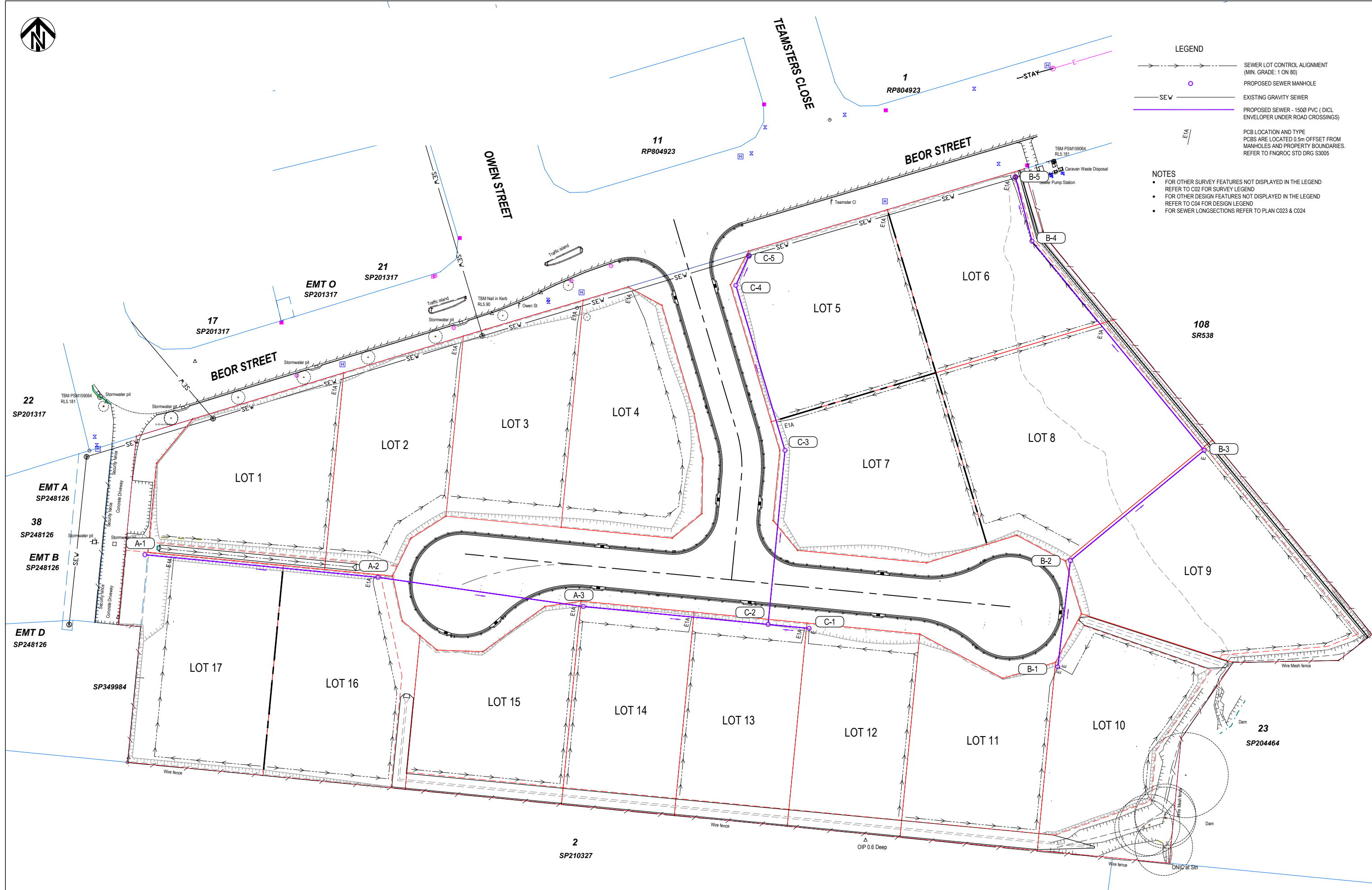
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DRAWING No

25235-C021

REV

A

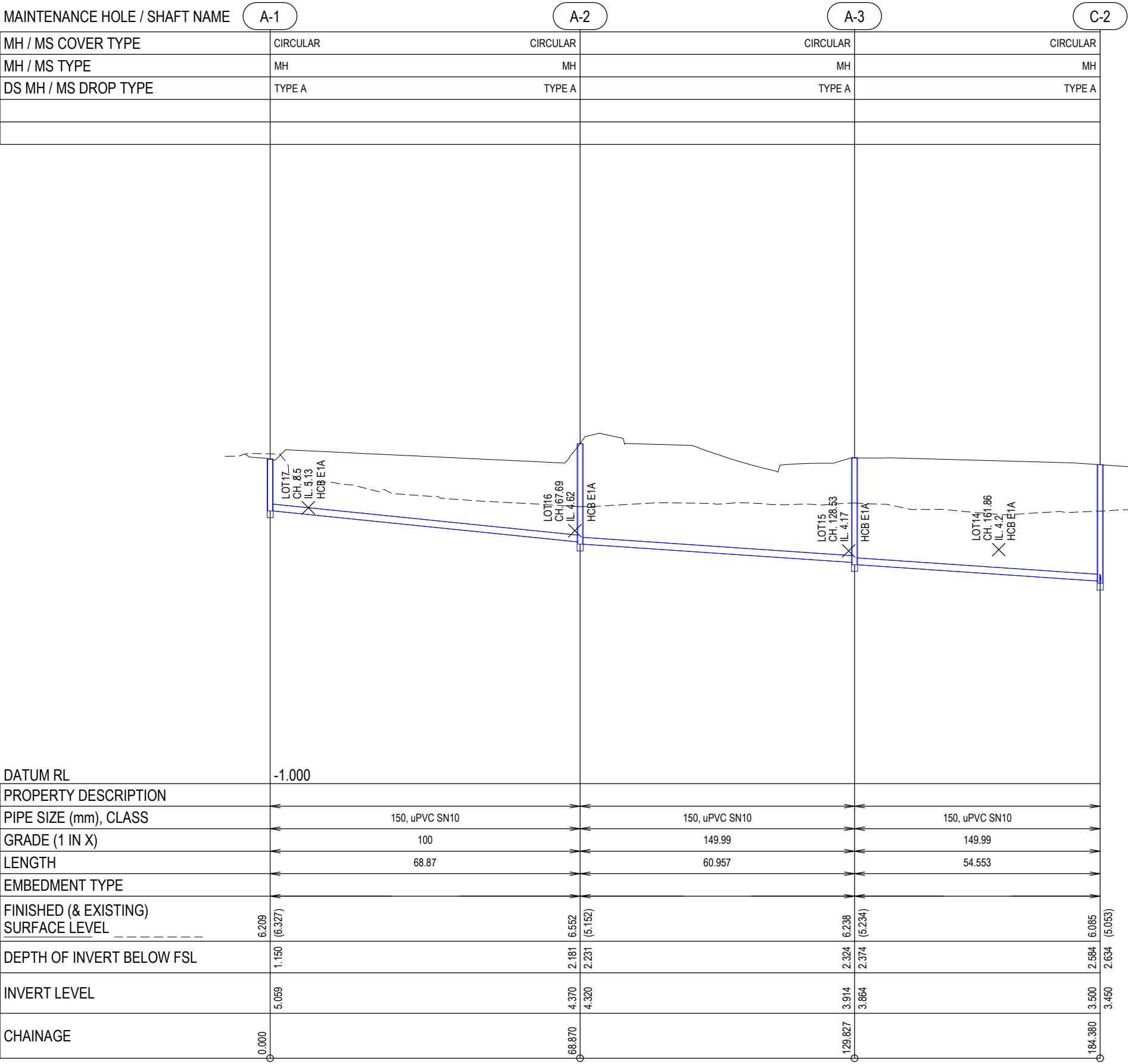


LEGEND

- SEWER LOT CONTROL ALIGNMENT (MIN. GRADE: 1 ON 80)
- PROPOSED SEWER MANHOLE
- EXISTING GRAVITY SEWER
- PROPOSED SEWER - 1500 PVC (D/C/L ENVELOPER UNDER ROAD CROSSINGS)
- PCB LOCATION AND TYPE
PCBS ARE LOCATED 0.5m OFFSET FROM MANHOLES AND PROPERTY BOUNDARIES. REFER TO FNQROC STD DRG S3005

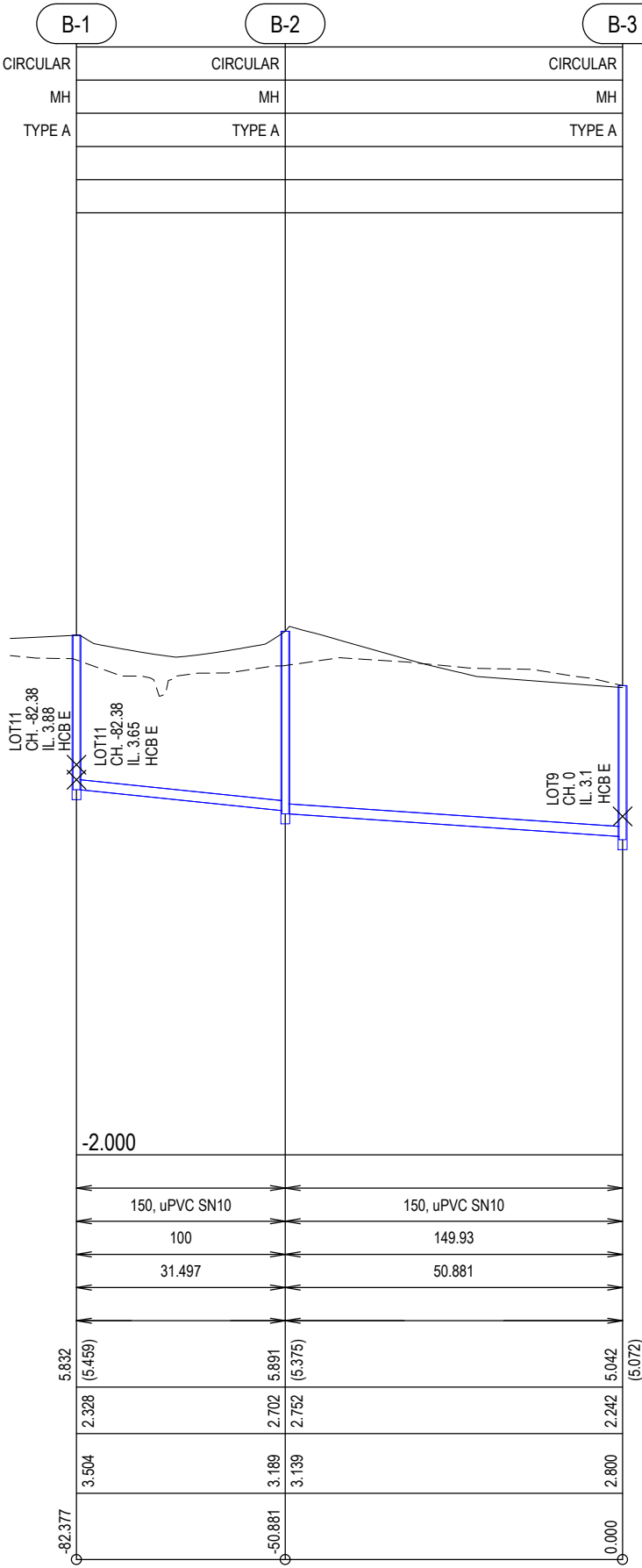
- NOTES**
- FOR OTHER SURVEY FEATURES NOT DISPLAYED IN THE LEGEND REFER TO C02 FOR SURVEY LEGEND
 - FOR OTHER DESIGN FEATURES NOT DISPLAYED IN THE LEGEND REFER TO C04 FOR DESIGN LEGEND
 - FOR SEWER LONGSECTIONS REFER TO PLAN C023 & C024

A 23.01.26 FOR COUNCIL APPROVAL		SCALE 1:1000 Orig. Sheet A3 DO NOT SCALE DRAWINGS Scales Before Reduction 50510152025 m		DESIGNER OSE GROUP Address: 35 ABBOTT ST, CAIRNS 4870 Email: admin@osegroup.com.au		CLIENT K.A.N. Developments Pty Ltd		PROJECT CRAIGLIE BUSINESS PARK BOER STREET - CRAIGLIE 4877		TITLE SEWER RETICULATION PLAN		
REV	DATE	REVISION NOTES					DRAWN DM DESIGNED DM	DRAWING CHECK AMcP DESIGN REVIEW AMcP	APPROVED DATE -	SCALE (Scale as shown)	DRAWING No 25235-C022	REV A



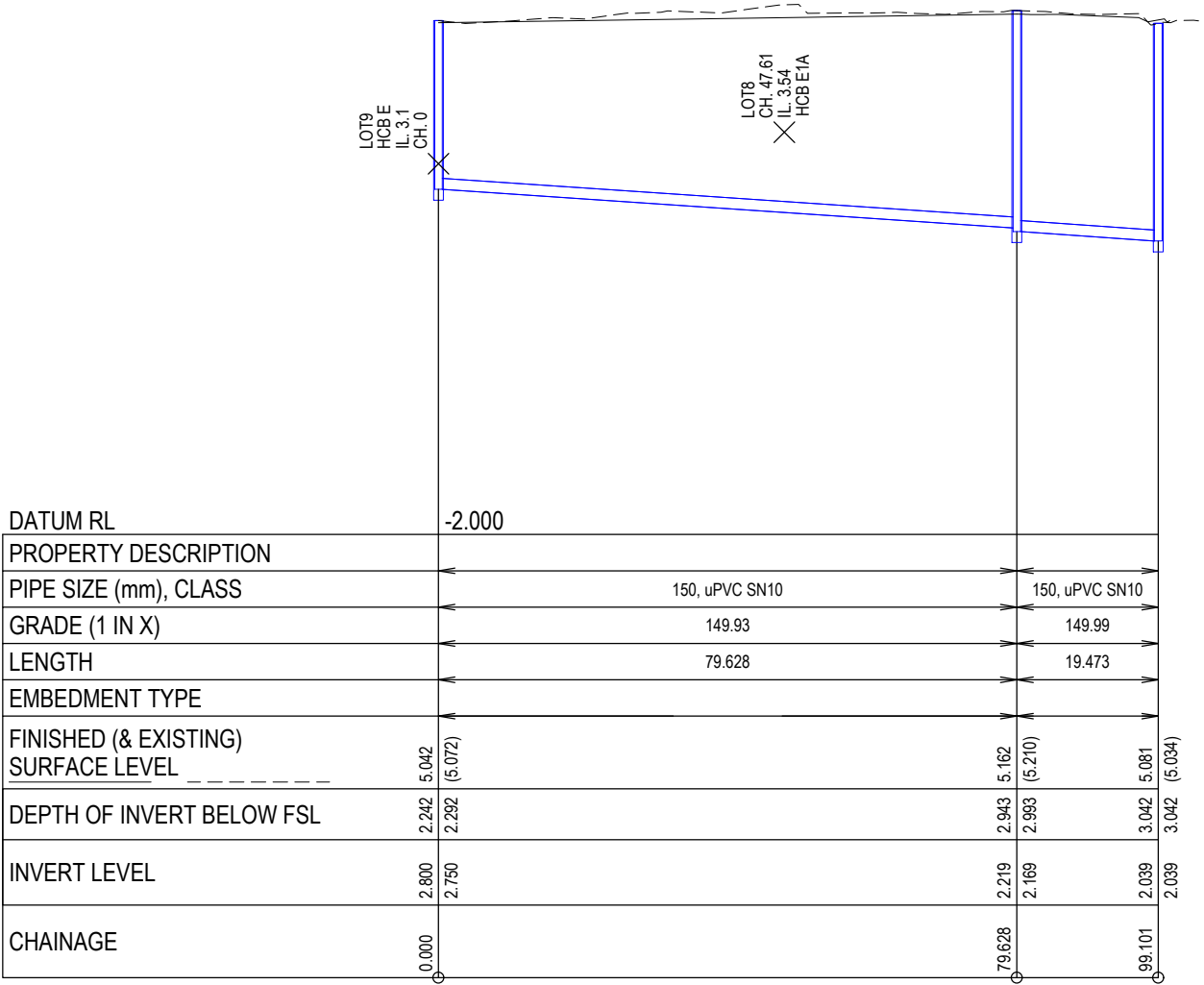
LINE

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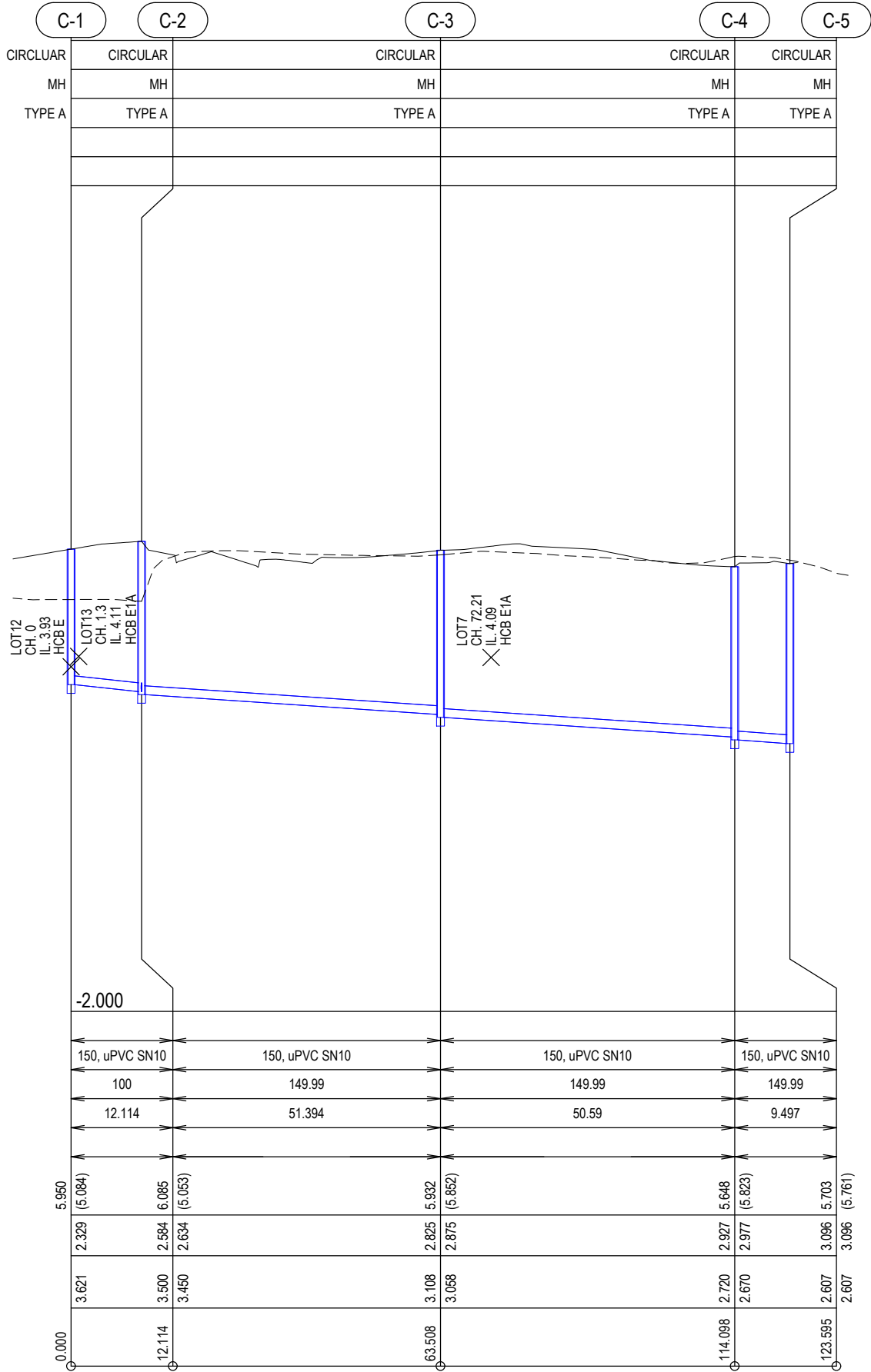
B

MAINTENANCE HOLE / SHAFT NAME			B-3	B-4	B-5
MH / MS COVER TYPE	CIRCULAR			CIRCULAR	CIRCULAR
MH / MS TYPE	MH			MH	MH
DS MH / MS DROP TYPE	TYPE A			TYPE A	TYPE A

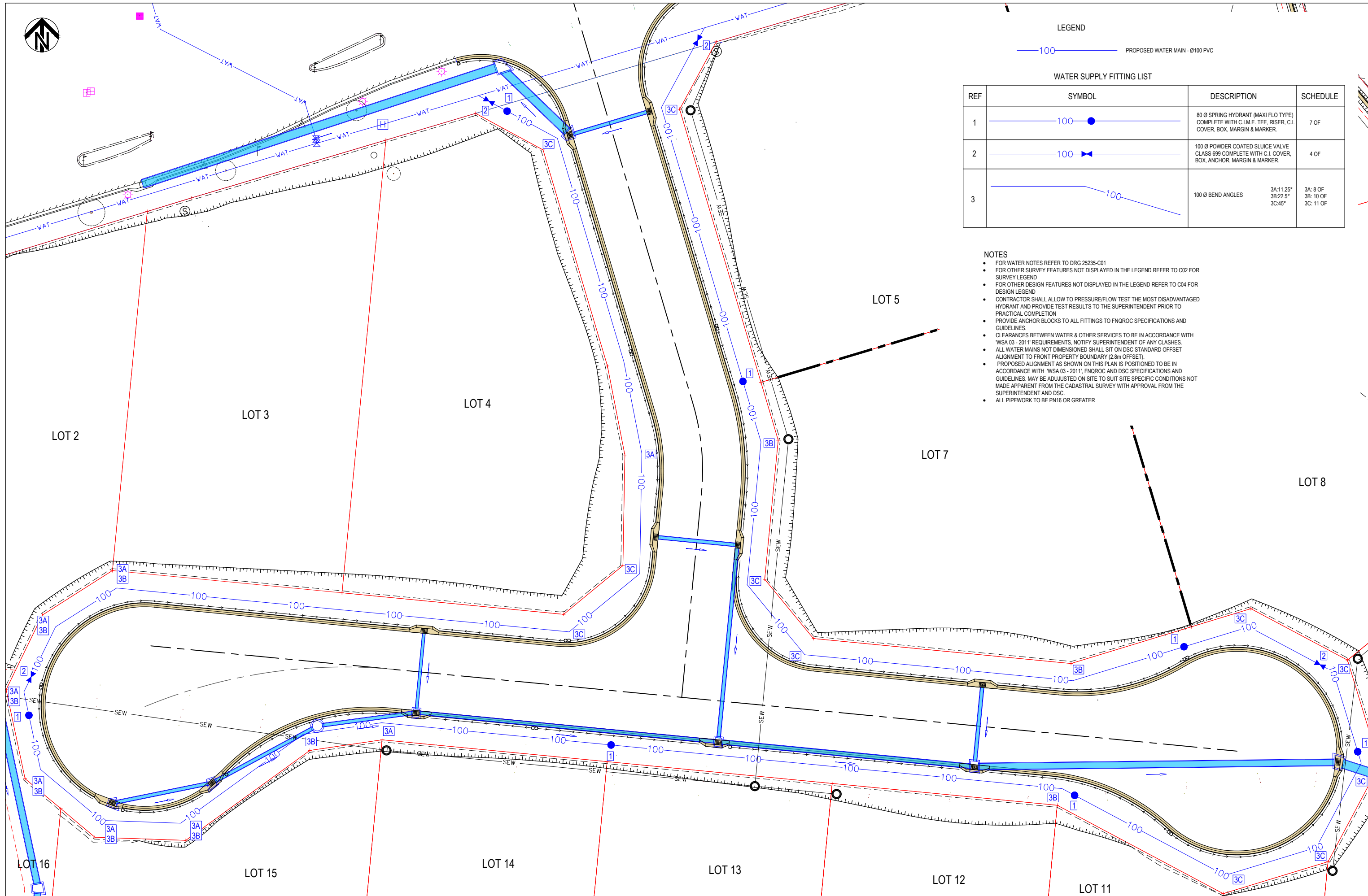


LINE

B



C



LEGEND

100 PROPOSED WATER MAIN - Ø100 PVC

WATER SUPPLY FITTING LIST

REF	SYMBOL	DESCRIPTION	SCHEDULE
1	100	80 Ø SPRING HYDRANT (MAXI FLO TYPE) COMPLETE WITH C.I.M.E. TEE, RISER, C.I. COVER, BOX, MARGIN & MARKER.	7 OF
2	100	100 Ø POWDER COATED SLUICE VALVE CLASS 699 COMPLETE WITH C.I. COVER, BOX, ANCHOR, MARGIN & MARKER.	4 OF
3	100	100 Ø BEND ANGLES 3A: 11.25° 3B: 22.5° 3C: 45°	3A: 8 OF 3B: 10 OF 3C: 11 OF

NOTES

- FOR WATER NOTES REFER TO DRG 25235-C01
- FOR OTHER SURVEY FEATURES NOT DISPLAYED IN THE LEGEND REFER TO C02 FOR SURVEY LEGEND
- FOR OTHER DESIGN FEATURES NOT DISPLAYED IN THE LEGEND REFER TO C04 FOR DESIGN LEGEND
- CONTRACTOR SHALL ALLOW TO PRESSURE/FLOW TEST THE MOST DISADVANTAGED HYDRANT AND PROVIDE TEST RESULTS TO THE SUPERINTENDENT PRIOR TO PRACTICAL COMPLETION
- PROVIDE ANCHOR BLOCKS TO ALL FITTINGS TO FNQROC SPECIFICATIONS AND GUIDELINES.
- CLEARANCES BETWEEN WATER & OTHER SERVICES TO BE IN ACCORDANCE WITH 'WSA 03 - 2011' REQUIREMENTS. NOTIFY SUPERINTENDENT OF ANY CLASHES.
- ALL WATER MAINS NOT DIMENSIONED SHALL SIT ON DSC STANDARD OFFSET ALIGNMENT TO FRONT PROPERTY BOUNDARY (2.8m OFFSET).
- PROPOSED ALIGNMENT AS SHOWN ON THIS PLAN IS POSITIONED TO BE IN ACCORDANCE WITH 'WSA 03 - 2011'. FNQROC AND DSC SPECIFICATIONS AND GUIDELINES. MAY BE ADJUSTED ON SITE TO SUIT SITE SPECIFIC CONDITIONS NOT MADE APPARENT FROM THE CADASTRAL SURVEY WITH APPROVAL FROM THE SUPERINTENDENT AND DSC.
- ALL PIPEWORK TO BE PN16 OR GREATER

A 23.01.26 FOR COUNCIL APPROVAL

REV DATE REVISION NOTES

SCALE 1:500

Orig. Sheet
A3

DO NOT SCALE DRAWINGS

Scales Before Reduction

2.5 0 2.5 5.0 7.5 10.0 12.5 m

DESIGNER

OSE
GROUP

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Email: admin@osegroup.com.au

CLIENT

K.A.N. Developments Pty Ltd

PROJECT

CRAIGLIE BUSINESS PARK
BOER STREET - CRAIGLIE 4877

DRAWN

DM

DRAWING CHECK

AMcP

APPROVED

DATE

TITLE

WATER RETICULATION PLAN

SCALE
(Scale as shown)

DRAWING No

25235-C025

REV

A



LEGEND

SAND BAGS AROUND STORMWATER INLETS

SILT FENCE

ROCK CHECK DAMS ALONG OVERLAND DRAINAGE PATH

SAND BAGS ALONG KERBS

NOTES

- FOR EROSION AND SEDIMENT CONTROL NOTES REFER TO DRG 25235-C01
- FOR OTHER SURVEY FEATURES NOT DISPLAYED IN THE LEGEND REFER TO C02 FOR SURVEY LEGEND
- FOR OTHER DESIGN FEATURES NOT DISPLAYED IN THE LEGEND REFER TO C04 FOR DESIGN LEGEND

A 23.01.26 FOR COUNCIL APPROVAL		SCALE 1:1000 Orig. Sheet A3 DO NOT SCALE DRAWINGS Scales Before Reduction 50510152025 m	DESIGNER OSE GROUP Address: 35 ABBOTT ST, CAIRNS 4870 Email: admin@osegroup.com.au	CLIENT K.A.N. Developments Pty Ltd	PROJECT CRAIGLIE BUSINESS PARK BOER STREET - CRAIGLIE 4877	TITLE EROSION AND SEDIMENT CONTROL STRATEGY	
REV	DATE						
REVISION NOTES							
3/02/2026 12:53:02 PM File: C:\OSE\OSE Group\Operations - Docs\Projects\2025\25235 Craiglee Business Park\Drawings\Working\25235_DESIGN.dwg		SCALE (Scale as shown) DRAWING No 25235-C026		DRAWN DM DRAWING CHECK AMcP DESIGNED DM DESIGN REVIEW AMcP APPROVED DATE -		REV A	