

DETAILED ENGINEERING PLANS

PROPOSED SPORTING FIELDS & ACCESS ROAD

SCENIC DRIVE, COLONGRA

LOT 500 D.P.755266

CPA/6240

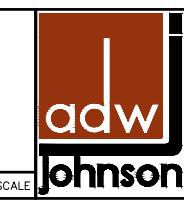
GENERAL NOTES	
1.	All works to be constructed out in accordance with the requirements of Central Coast Council's "Civil Works Construction Specification".
2.	If the standard or requirements for works shown on the drawings differ from that required by Council's "Civil Works Construction Specification" then the requirements of the "Civil Works Construction Specification" will generally prevail. Clarification shall be obtained from the Superintendent if there is concern that the requirements of Council's "Civil Works Construction Specification" may not be appropriate for a specific circumstance.
3.	The Contractor shall address all pre construction requirements of Council's "Civil Works Construction Specification" prior to commencement of any works.
4.	The Contractor is to prepare and implement a Traffic Control Plan (TCP) for any works that are within an existing Council road reserve regardless of the nature and extent of the works and/or if the works will disrupt the normal path of vehicles and pedestrians. Traffic Control Plans shall be prepared only by persons that hold current RMS accreditation and shall be approved by RMS prior to implementation. Traffic control plans shall be implemented on site only by persons with RMS accreditation. The Contractor shall provide to Council a copy of the initial Traffic Control Plan prepared for the works and any other records related to traffic control when requested by Council.



LOCALITY PLAN
NTS

REV	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
1	23.07.2025	UPDATED SEWER DESIGN BASED ON SERVICE LOCATION	B.U. J.J.	B.U. T.W.	B.U. T.W.	C.Sh C.Sh	
2	22.11.2025	UPDATED SEWER					

DESIGN FILE S:\239418\239418(1)\DESIGN\12D\SPORTING FIELDS
ALL DIMENSIONS ARE IN METRES. DO NOT SCALE



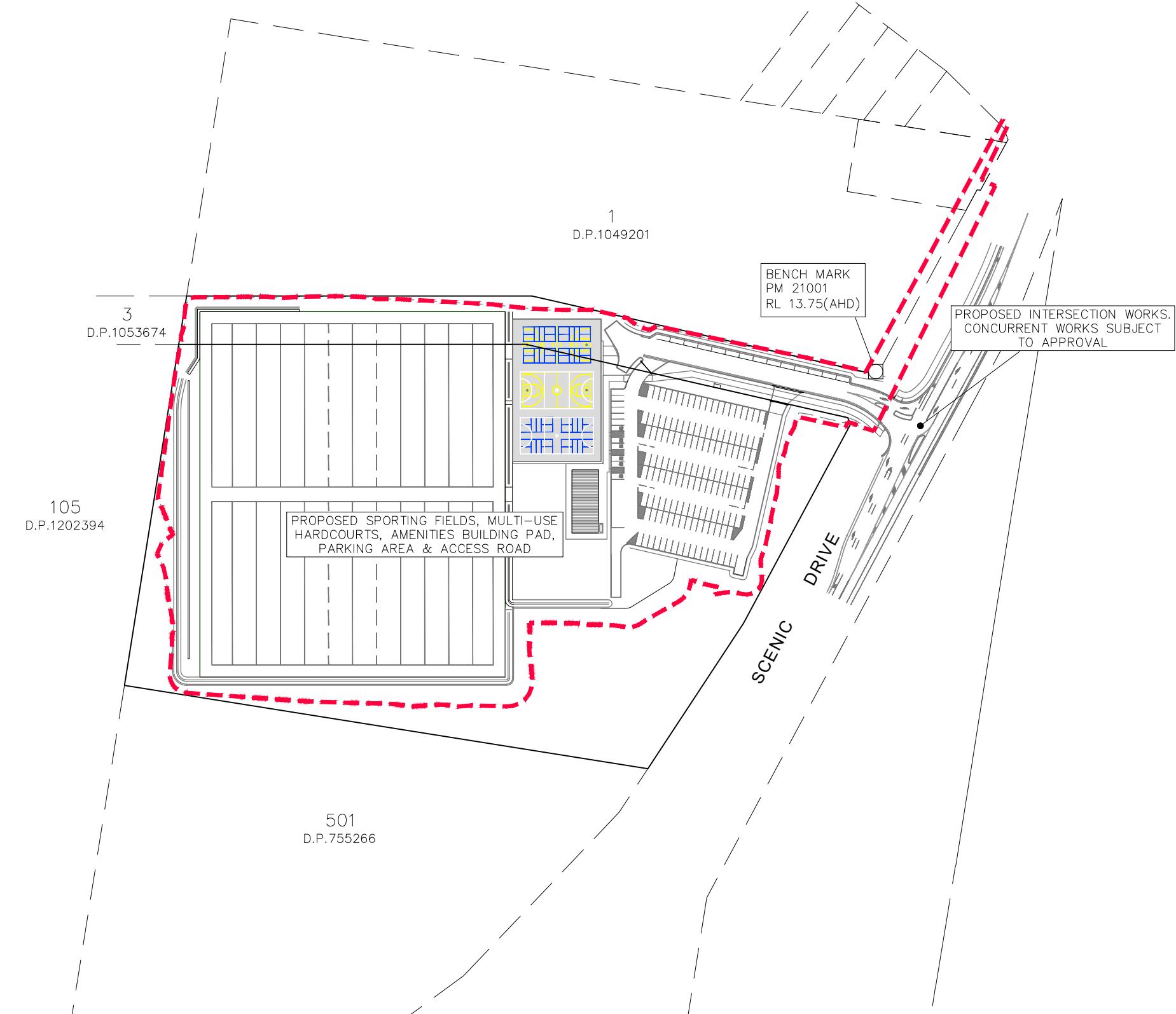
Central Coast
P.O. Box 3717,
Tuggerah, NSW, 2259
Phone: (02) 4305 4300
Fax: (02) 4305 4399
email: coast@adwjohson.com.au
www.adwjohson.com.au
ABN 62 129 445 398



PROPERTY DESCRIPTION
PROPOSED SPORTING FIELDS & ACCESS ROAD
SCENIC DRIVE, COLONGRA
LOT 500 D.P.755266
CPA/2963

PROJECT **COLONGRA SPORTING FIELDS DESIGN**
PLAN TITLE **COVER SHEET, INDEX OF DRAWINGS, GENERAL NOTES & LOCALITY SKETCH**

SURVEYED	DATUM	PROJECT No.	DISCIPLINE	NUMBER	REV.
TREHY INGOLD NEATE	A.H.D.	239405	-	ENG	-



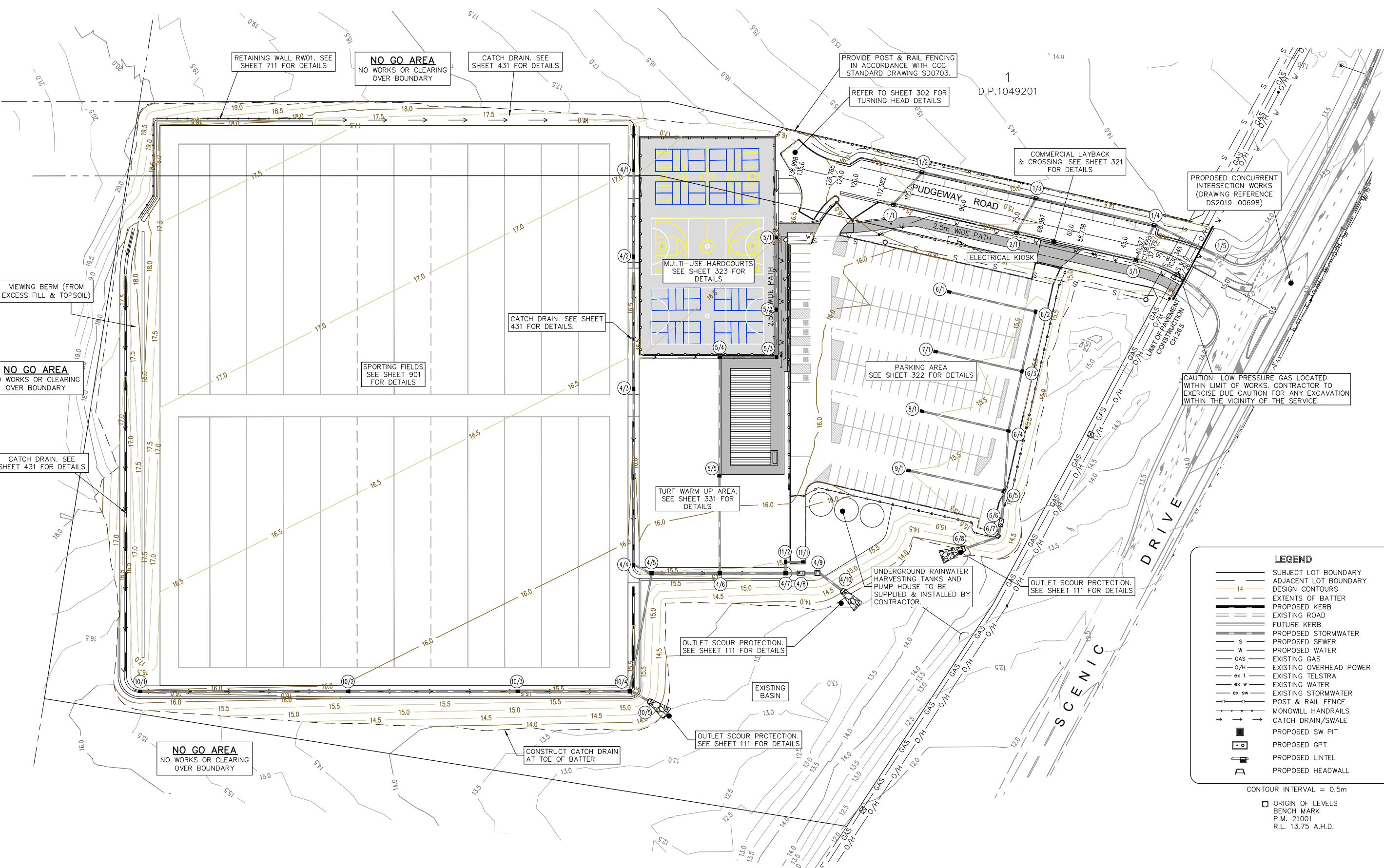
LEGEND

- EXTENT OF WORKS
- SUBJECT SITE BOUNDARY
- ADJACENT LOT BOUNDARY

ORIGIN OF LEVELS
BENCH MARK
P.M. 21001
R.L. 13.75 A.H.D.

REV	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	
1	23.07.2025	UPDATED SEWER DESIGN BASED ON SERVICE LOCATION	B.U. J.J.	B.U. T.W.	B.U. T.W.	C.Sh C.Sh	0 10 20 30 40 1:1000 / 1:2000		Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohson.com.au www.adwjohson.com.au ABN 62 129 445 398	PROPOSED SPORTING FIELDS & ACCESS ROAD SCENIC DRIVE, COLONGRA LOT 500 D.P.755266 CPA/2963	COLONGRA SPORTING FIELDS DESIGN
2	22.11.2025	UPDATED SEWER							PLAN TITLE	OVERALL SITE PLAN	
<hr/>											
SURVEYED DATUM PROJECT No. DISCIPLINE NUMBER REV.											
TREHY INGOLD NEATE A.H.D. 239405 - ENG - 002 2											

This plan includes coloured information. If you have a black and white copy you do not have all of the information. This note is coloured RED.
100mm AT FULL SIZE



REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALE	CLIENT	PROPERTY DESCRIPTION	PROJECT	
1	23.07.2025	UPDATED SEWER DESIGN BASED ON SERVICE LOCATION	B.U. J.J.	B.U. T.W.	B.U. T.W.	C.Sh C.Sh	0 10 20 A1 / A3 1:500 / 1:1000		Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohson.com.au www.adwjohson.com.au ABN 62 129 445 398	PROPOSED SPORTING FIELDS & ACCESS ROAD SCENIC DRIVE, COLONGRA LOT 500 D.P.755266 CPA/2963	COLONGRA SPORTING FIELDS DESIGN
2	22.11.2025	UPDATED SEWER							PLAN TITLE	DETAIL PLAN	
DESIGN FILE S:\239418\239418(1)\DESIGN\12D\SPORTING FIELDS							ALL DIMENSIONS ARE IN METRES. DO NOT SCALE	SURVEYED	DATUM	PROJECT No.	
								A.H.D.	239405 - ENG - 101	DISCIPLINE NUMBER REV.	



The diagram shows a cross-section of a scour protection structure. On the left, a vertical pipe labeled 'HEADWALL' extends downwards into a base. The base is filled with a dense arrangement of irregular stones. A horizontal dimension line at the bottom indicates a width of 4000. A vertical dimension line on the right indicates a height of 3100. A callout on the right side specifies 'CHECK DAM ROCKS RETURN AT EDGES AS'. A callout near the base specifies a 'Ø0.2m MINIMUM ROCK SIZE'.

SECTION A

SHOWN.

PROPOSED HEADWALL

BANK OF BASIN

CREATE CHECK DAM BY FINISHING LAST ROW OF ROCKS 200mm PROUD OF OUTLET STRUCTURE & NATURAL SURFACE

1%

200

BIDIM A34 UNDERLAY TO ALL ROCK MATERIAL

DENOTES WHERE BIDIM A34 IS TO BE TURNED DOWN, PINNED AND LOOPED UP AT ALL EXTERNAL EDGES TYPICAL

SECTION B

A

SECTION A
N.T.S

TOP OF BANK (T.O.B.)

AS
REQ'D

NATURAL GROUND LEVEL IS TO BE FLUSH WITH TOP OF ROCK PITCHING TYPICAL

VARIABLES

100 MIN

AS
REQ'D

T.O.B.

DENOTES WHERE BIDIM A34 IS TO BE TURNED DOWN, PINNED AND LOOPED UP AT ALL EXTERNAL EDGES TYPICAL

BATTER TO NATURAL 1:1 MAX SLOPE TYPICAL

BIDIM A34 UNDERLAY TO ALL ROCK MATERIAL

Technical drawing of a concrete foundation with dimensions: height 150, top width 30, top length 150, side height 30, side length 40, side height 110, side length 450, and bottom width 210.

STANDARD KERB & GUTTER (MODIFIED SA)(CCC)

DISHED CROSSING
(MODIFIED SB)(CCC)
AS PER SD0511

SM KERB DETAIL

EDGE RESTRAINT (150x150)

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
1	23.07.2025	UPDATED SEWER DESIGN BASED ON SERVICE LOCATION	B.U. J.J.	B.U. T.W.	B.U. T.W.	C.Sh C.Sh	
2	22.11.2025	UPDATED SEWER					



Central Coast
5 Pioneer Avenue,
P.O. Box 3717,
Tuggerah N.S.W. 2259
Phone: (02) 4305 4300
Fax: (02) 4305 4399
email: coast@adwjohnson.com
www.adwjohnson.com.au
ABN 62 129 445 398



PROPERTY DESCRIPTION
PROPOSED SPORTING FIELDS & ACCESS ROAD
SCENIC DRIVE, COLOGRA
LOT 500 D.P.755266
CPA/2963

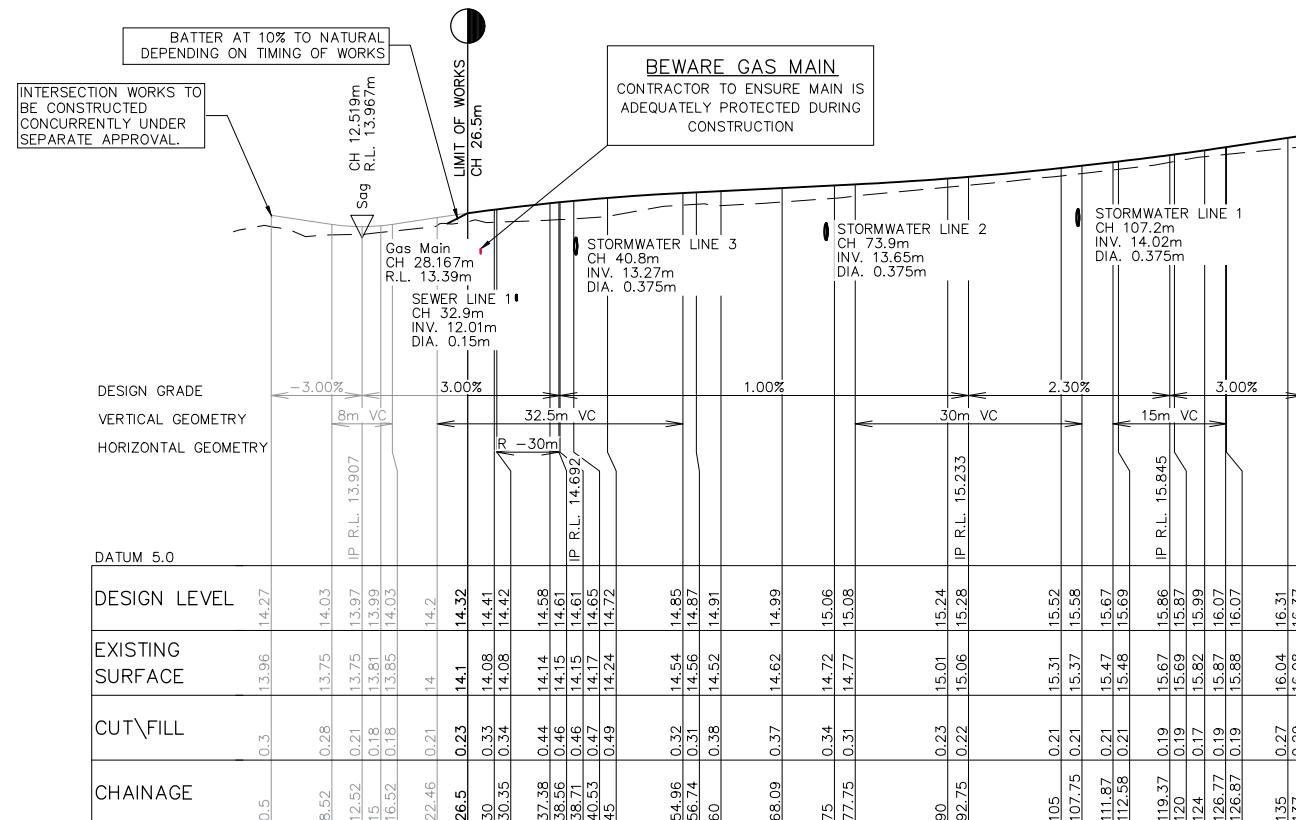
PROJECT COOLONGRA SPORTING FIELDS DESIGN

STANDARD DETAILS

SURVEYED
TREHY INGOLD NEA

DATUM

PROJECT No.	DISCIPLINE	NUMBER	REV.
239405	ENG	111	2

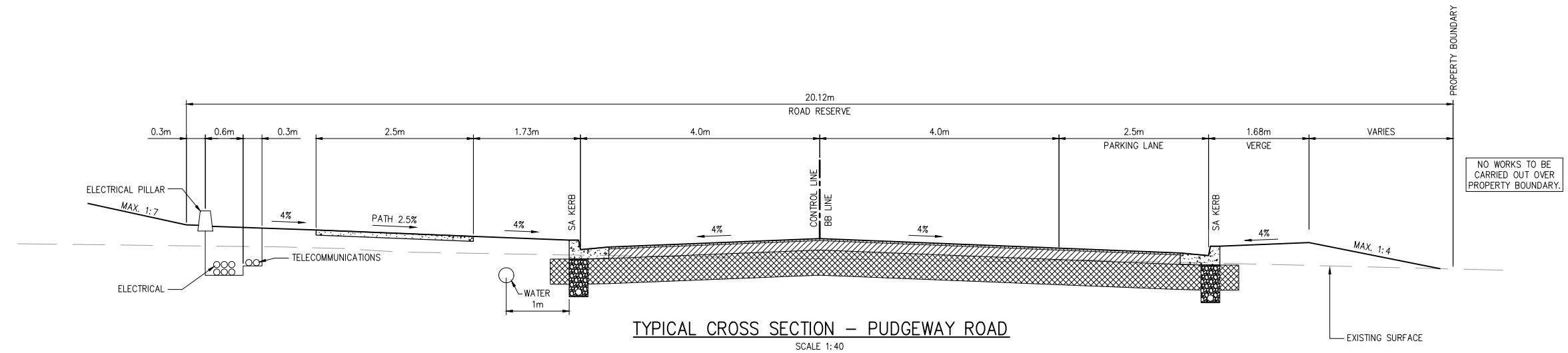


LONGITUDINAL SECTION PUDGEWAY ROAD

HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100

PUDGEWAY ROAD SETOUT TABLE							
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	DEP.SEG	DEP.RAD
S	0.500	363944.035	6322447.229	14.267	28°42'35.03"	LINE	29.846
TC	30.345	363958.372	6322473.405	14.422	28°42'35.03"	ARC	-30.000
CT	38.555	363961.288	6322481.052	14.608	13°01'50.05"	LINE	98.443
E	136.998	363983.484	6322576.961	16.374	13°01'50.05"		

REV	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	Central Coast Council	PROPERTY DESCRIPTION	PROJECT									
1	23.07.2025	UPDATED SEWER DESIGN BASED ON SERVICE LOCATION	B.U. J.J.	B.U. T.W.	B.U. T.W.	C.Sh C.Sh	0 2 4 VERT 1:100 / 1:200 HORIZ 1:500 / 1:100	PROPOSED SPORTING FIELDS & ACCESS ROAD SCENIC DRIVE, COLONGRA LOT 500 D.P.755266 CPA/2963											
2	22.11.2025	UPDATED SEWER						ROAD MC01 LONGITUDINAL SECTION & SETOUT TABLE											
DESIGN FILE S:\239418\239418(1)\DESIGN\12D\SPORTING FIELDS											SURVEYED		DATUM		PROJECT No.	DISCIPLINE	NUMBER	REV.	
ALL DIMENSIONS ARE IN METRES. DO NOT SCALE											TREHY INGOLD NEATE		A.H.D.	239405	-	ENG	-	201	2



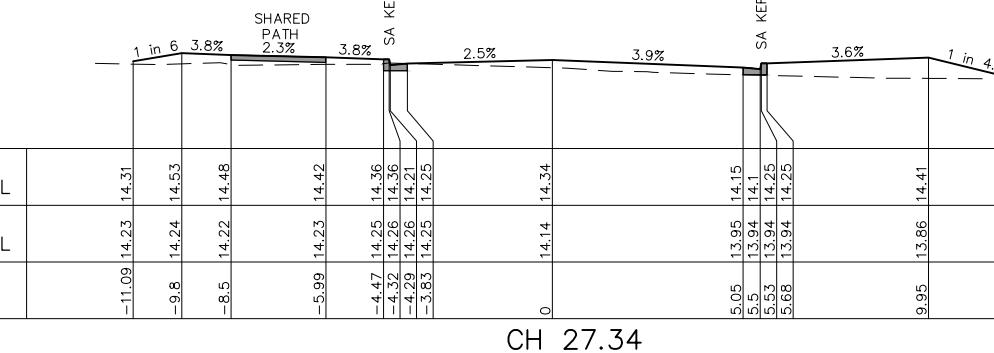
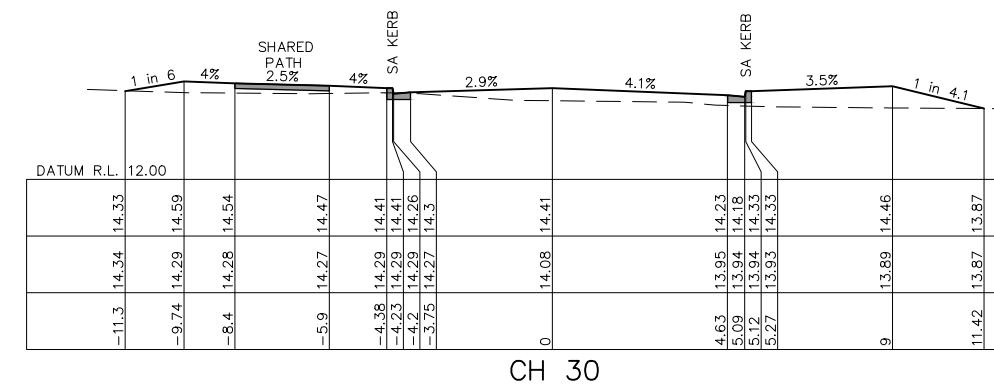
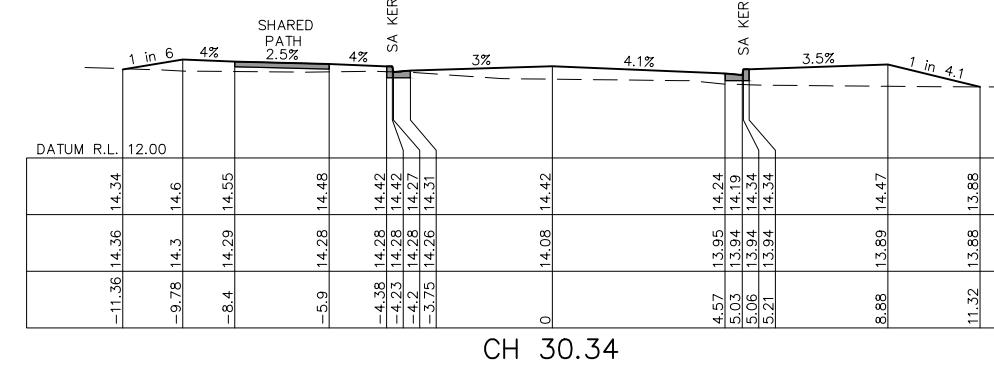
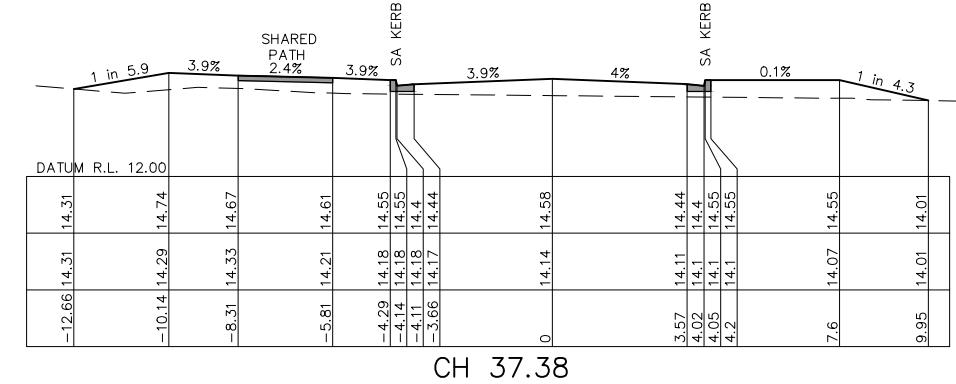
PAVEMENT COMPOSITION
(FROM DOUGLAS PARTNERS REPORT REF: 75989.02 REV 1)

DESIGN TRAFFIC LOADING (ESAs)	DESIGN CBR (%)	PAVEMENT COMPOSITION			
		WEARING COURSE (mm)	BASE COURSE (mm)	SUB-BASE (mm)	TOTAL PAVEMENT THICKNESS
3.3 x 10 ⁶	3	45 AC14 with Primer Seal	150	430	625

NOTES:

- REFER TO CENTRAL COAST COUNCIL STANDARD DRAWINGS SD0501 AND SD0301 FOR KERB TYPE AND SUBSOIL SPECIFICATIONS.
- FOR CONCRETE FOOTPATH AND SHARED CYCLEWAY SPECIFICATIONS REFER TO SD0601.
- ALL LINEMARKING TO BE IN ACCORDANCE WITH CENTRAL COAST COUNCIL CIVIL WORKS DESIGN GUIDELINE.
- ALL NEW KERB TO BE LAID TO SUIT, OR DIRECTED BY SUPERVISING ENGINEER.
- COMPLETE DETAILS OF PAVEMENT DESIGN AND CONSTRUCTION METHODS TO BE IN ACCORDANCE WITH REPORT PREPARED BY DOUGLAS PARTNERS PTY. LTD. REF: 75989.02 REV 1 DATED MAY 2016.
- ROAD VERGE TO BE TOPSOILED AND TURFED (COUCH) IN ACCORDANCE WITH CCC REQUIREMENTS.
- HIGHLY REACTIVE CLAY WITH SWELL CHARACTERISTICS LOCATED AT SOUTHERN PORTION OF PUDGEWAY ROAD NEAR LIMIT OF WORKS AND AT SUBGRADE LEVEL. 300MM THICK SELECT SUBGRADE OR IN-SITU LIME STABILISATION TO BE PROVIDED IN ACCORDANCE WITH REPORT 75989.02.R.001.REV 1 BY DOUGLAS PARTNERS.

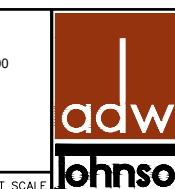
REV	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	Central Coast	CLIENT	PROPERTY DESCRIPTION	PROJECT
1	23.07.2025	UPDATED SEWER DESIGN BASED ON SERVICE LOCATION	B.U. J.J.	B.U. T.W.	B.U. T.W.	C.Sh C.Sh	0 0.2 0.4 0.6 0.8 1.0 2.0 1:40 / 1:80	5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	Central Coast Council	PROPOSED SPORTING FIELDS & ACCESS ROAD SCENIC DRIVE, COLONGRA LOT 500 D.P.755266 CPA/2963	COLONGRA SPORTING FIELDS DESIGN
2	22.11.2025	UPDATED SEWER								PLAN TITLE	TYPICAL ROAD SECTIONS & PAVEMENT DETAILS
										SURVEYED	DATUM
										TREHY INGOLD NEATE	A.H.D.
										PROJECT No.	DISCIPLINE
										239405	NUMBER
										-	REV.
										ENG	211
											2



DESIGN SURFACE LEVEL	
EXISTING SURFACE LEVEL	
OFFSET	

DATUM R.L. 12.00

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
1	23.07.2025	UPDATED SEWER DESIGN BASED ON SERVICE LOCATION	B.U. J.J.	B.U. T.W.	B.U. T.W.	C.Sh C.Sh	0 1 2 3 4 A1 / A3 1:100 / 1:200



Central Coast
P.O. Box 3717,
Tuggerah N.S.W. 2259
Phone: (02) 4305 4300
Fax: (02) 4305 4399
email: coast@adwjohson.com.au
www.adwjohson.com.au
ABN 62 129 445 398

CLIENT



PROPERTY DESCRIPTION
PROPOSED SPORTING FIELDS & ACCESS ROAD
SCENIC DRIVE, COLONGRA
LOT 500 D.P.755266
CPA/2963

PROJECT
COLONGRA SPORTING FIELDS DESIGN
PLAN TITLE
ROAD PUDGEWAY ROAD CROSS SECTIONS - SHEET 1

SURVEYED
TREHY INGOLD NEATE

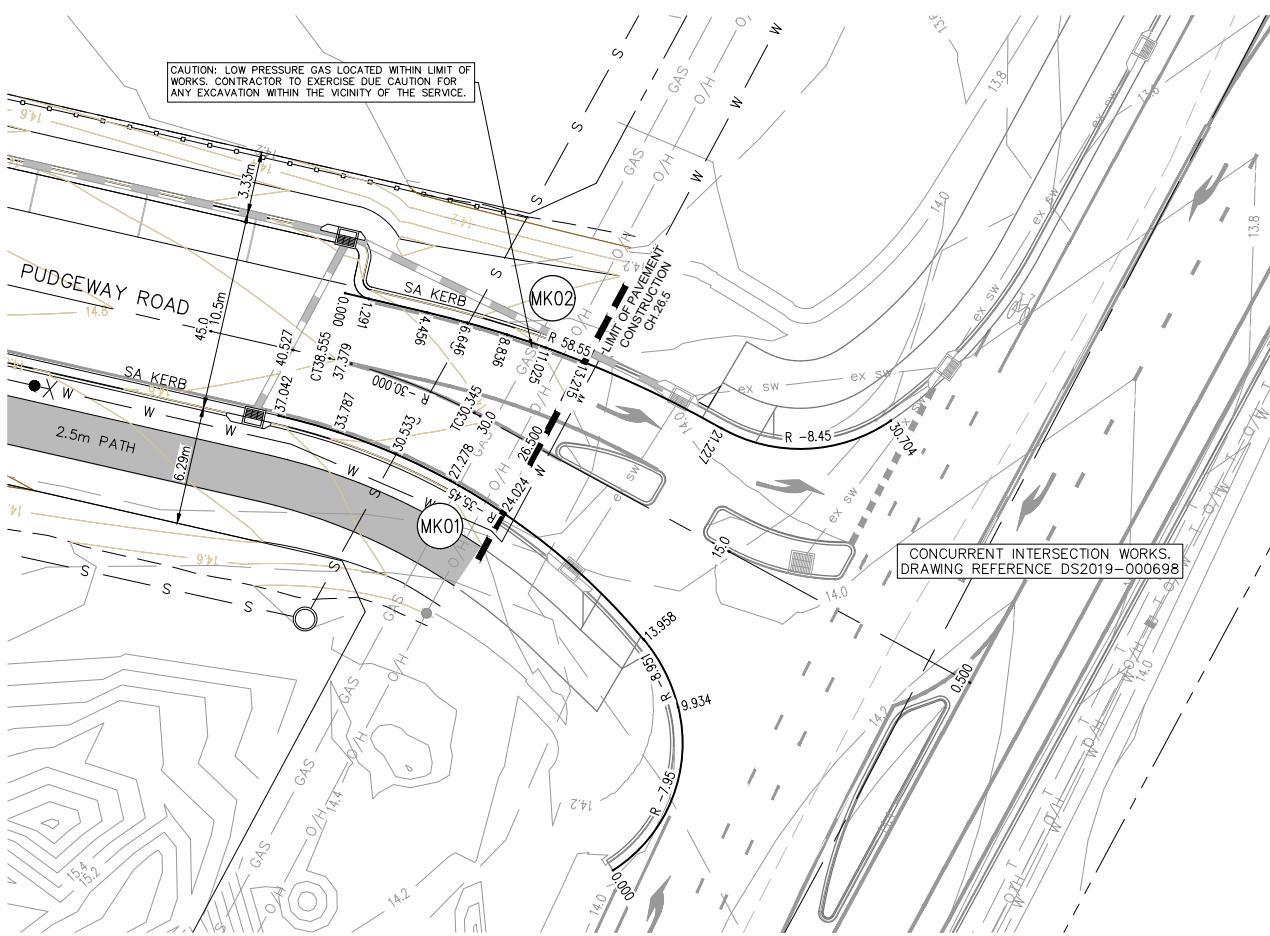
DATUM
A.H.D.

PROJECT No.
239405

DISCIPLINE
ENG

NUMBER
221

REV.
2



LEGEND											
SUBJECT LOT BOUNDARY	- - -	ADJACENT LOT BOUNDARY	- - -	DESIGN CONTOURS	- - -	EXTENTS OF BATTER	- - -	PROPOSED KERB	- - -	EXISTING ROAD	- - -
14	- - -		- - -		- - -		- - -		- - -		- - -
PROPOSED KERB	- - -		- - -		- - -		- - -		- - -		- - -
EXISTING ROAD	- - -		- - -		- - -		- - -		- - -		- - -
FUTURE KERB	- - -		- - -		- - -		- - -		- - -		- - -
POST & RAIL FENCE	- - -		- - -		- - -		- - -		- - -		- - -
PROPOSED STORMWATER	- - -		- - -		- - -		- - -		- - -		- - -
PROPOSED SEWER	- - -		- - -		- - -		- - -		- - -		- - -
W	- - -		- - -		- - -		- - -		- - -		- - -
PROPOSED WATER	- - -		- - -		- - -		- - -		- - -		- - -
GAS	- - -		- - -		- - -		- - -		- - -		- - -
O/H	- - -		- - -		- - -		- - -		- - -		- - -
EXISTING GAS	- - -		- - -		- - -		- - -		- - -		- - -
EXISTING OVERHEAD POWER	- - -		- - -		- - -		- - -		- - -		- - -
EXISTING TELSTRA	- - -		- - -		- - -		- - -		- - -		- - -
EXISTING WATER	- - -		- - -		- - -		- - -		- - -		- - -
EXISTING STORMWATER	- - -		- - -		- - -		- - -		- - -		- - -

CONTOUR INTERVAL = 0.2m

DESIGN RL ON
LIP OF KERB

KERB RETURNS MK01, MK02

SCALE 1:200

DESIGN GRADE		VERTICAL GEOMETRY		HORIZONTAL GEOMETRY			
DATUM 11.0							
DESIGN LEVEL LIP	13.96	14.06	14.06	1.00%			
EXISTING SURFACE	14.01	13.92	13.94	R - 7.95m	R - 8.95m	10m VC	
CHAINAGE	0	21.51	24.024	24.024	24.024	2.10%	
	9.934	13.958	13.94	14.2	14.2		
	16.51	14.02	14.13	26.51	14.28		
				27.278	14.2		
				30.533	14.14		
				33.787	14.17		
				37.042	14.22		
				14.2	14.23		
						IP R.L. 14.177	
							CH 24.024m

LONGITUDINAL SECTION MK01

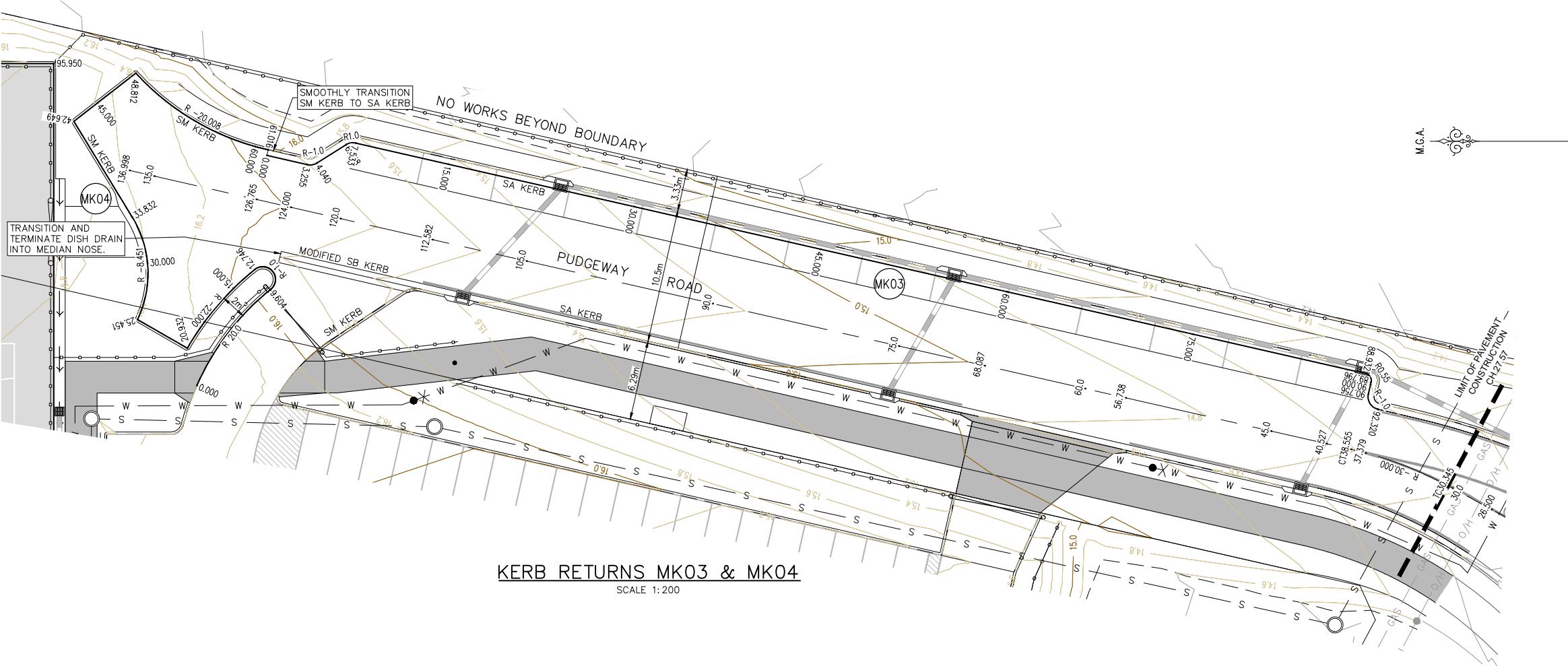
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:40

DESIGN GRADE		VERTICAL GEOMETRY		HORIZONTAL GEOMETRY			
DATUM 11.0							
DESIGN LEVEL LIP	14.12	0.766	14.06	1.00%			
EXISTING SURFACE	14.11	1.291	14.11	R - 7.95m	R - 8.95m	10m VC	
CHAINAGE	0	4.456	14.07	2.10%	R - 35.45m		
		5.766	14.33				
		6.446	14.31				
		8.836	13.99				
		10.766	13.84				
		13.011	13.88				
		13.215	14.12				
		18.011	13.83				
			14			IP R.L. 13.976	
							CH 13.215m

LONGITUDINAL SECTION MK02

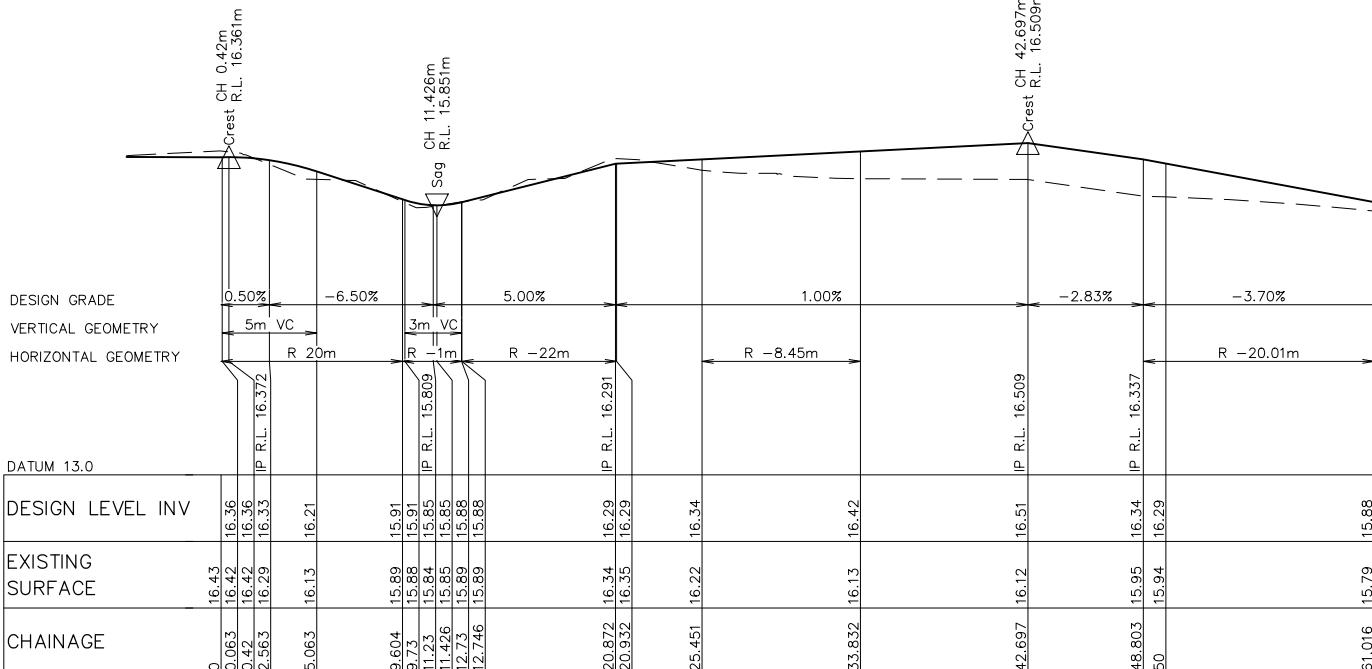
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:40

REV	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	
1	23.07.2025 22.11.2025	UPDATED SEWER DESIGN BASED ON SERVICE LOCATION UPDATED SEWER	B.U. J.J.	B.U. T.W.	B.U. T.W.	C.Sh. C.Sh	0 5 10 A1 / A3 1:200 / 1:400 VERT 0 0.2 0.4 0.6 0.8 1:20 / 1:40 HORIZ 0 1 2 3 4 1:100 / 1:200	Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohson.com.au www.adwjohson.com.au ABN 62 129 445 398	CLIENT	PROPOSED SPORTING FIELDS & ACCESS ROAD SCENIC DRIVE, COLONGRA LOT 500 D.P.755266 CPA/2963	COLONGRA SPORTING FIELDS DESIGN
DESIGN FILE S:\239418\239418(1)\DESIGN\12D\SPORTING FIELDS											
ALL DIMENSIONS ARE IN METRES. DO NOT SCALE											
SURVEYED TREHY INGOLD NEATE DATUM A.H.D. PROJECT No. 239405 DISCIPLINE ENG NUMBER 301 REV. 2											



KERB RETURNS MK03 & MK04

SCALE 1:200



LONGITUDINAL SECTION MK04

HORIZONTAL SCALE 1:200

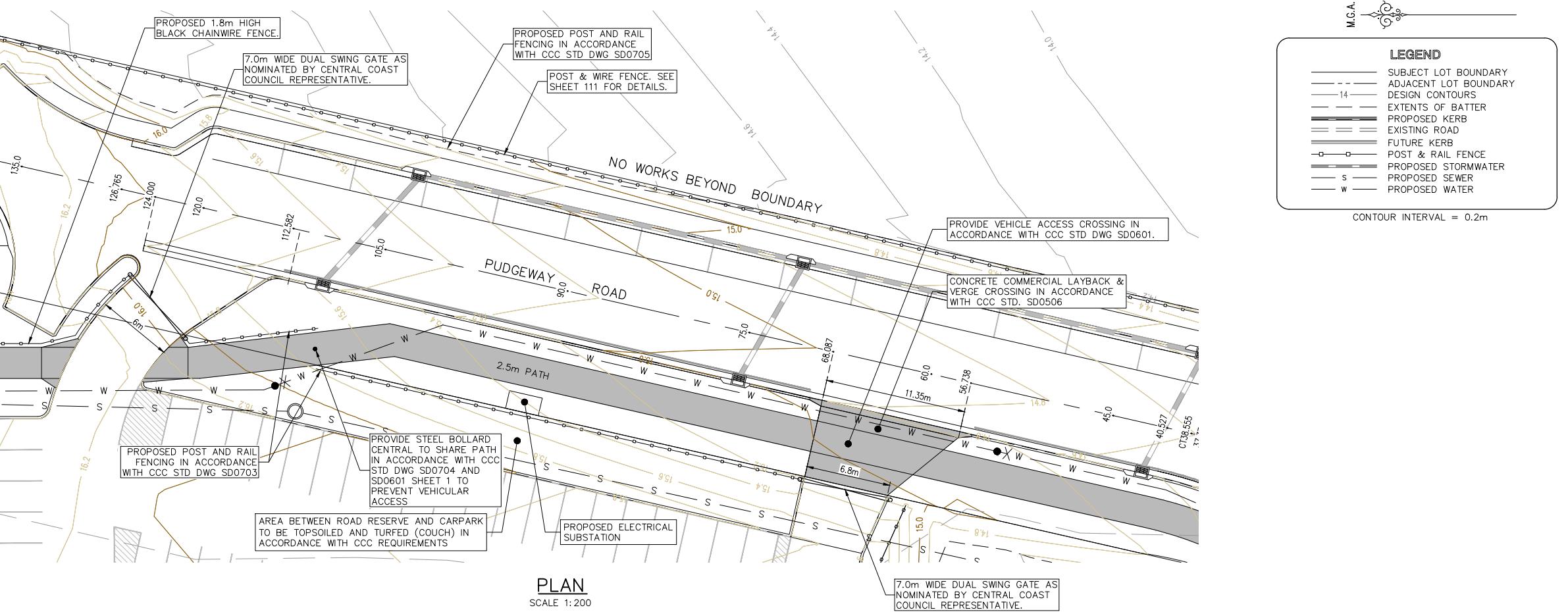
VERTICAL SCALE 1:40

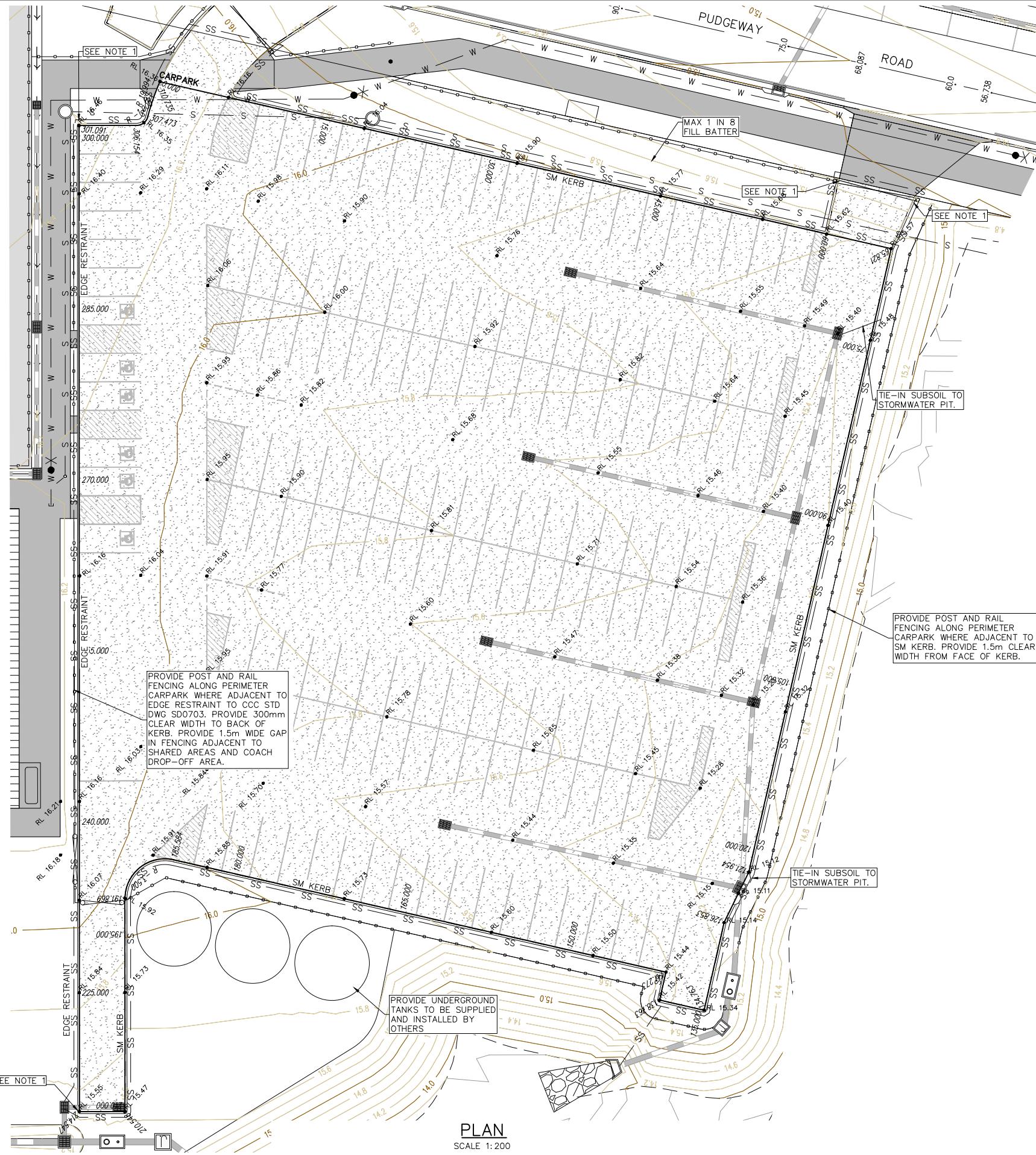
DESIGN RL ON INV OF KERB

MK03 SETOUT TABLE										
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	DEP.SEG	DEP.RAD	DEP.LEN		
S	0.000	363984.635	6322566.191	15.925	193°01'54.61"	LINE		3.255		
TC	3.255	363983.901	6322563.020	15.804	193°01'54.61"	ARC	-1.000	0.785		
CT1	4.040	363984.027	6322562.265	15.775	148°01'50.46"	LINE		2.707		
TC	6.748	363985.460	6322559.968	15.675	148°01'50.46"	ARC	1.000	0.785		
CT1	7.533	363985.580	6322559.213	15.645	193°01'50.07"	LINE		81.399		
TC	88.932	363967.233	6322479.910	14.376	193°01'50.07"	ARC	0.550	0.864		
CT	89.796	363966.573	6322479.498	14.397	283°01'50.16"	LINE		0.959		
TC	90.756	363965.639	6322479.714	14.435	283°01'50.16"	ARC	-1.000	1.564		
E	92.320	363964.440	6322478.972	14.441	193°25'23.90"					

MK04 SETOUT TABLE										
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	DEP.SEG	DEP.RAD	DEP.LEN		
S	0.000	363986.582	6322571.737	141°26'41.08"	ARC		20.000	9.604		
CC	9.604	363974.110	6322565.923	15.915	141°26'41.08"	ARC	-1.000	3.42		
DIS	12.746	363985.674	6322567.169	15.885	321°26'22.43"	ARC	-22.000	8.186		
DIS	20.932	363989.511	6322324.485	16.292	30°01'14.00"	LINE		4.519		
DIS	25.451	363971.779	6322376.395	16.333	115°39'35.60"	ARC	-8.451	5.381		
CT	33.832	363979.812	6322376.781	16.421	58°50'07.51"	LINE		8.817		
DIS	42.649	363987.356	6322581.543	16.509	42°16'16.98"	LINE		6.163		
DIS	48.812	363991.127	6322576.469	16.536	227°43'32.75"	ARC	-20.008	12.204		
E	61.016	363985.073	6322566.089	15.885	192°46.35.51					

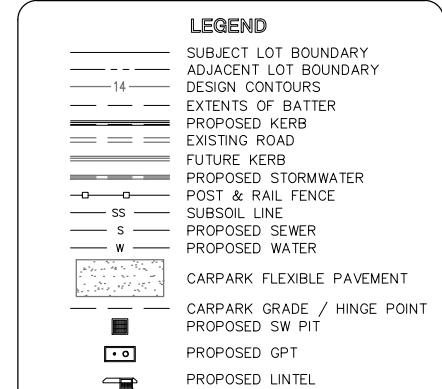
REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	
1	23.07.2025	UPDATED SEWER DESIGN BASED ON SERVICE LOCATION	B.U. J.J.	B.U. T.W.	B.U. T.W.	C.Sh. C.Sh	0 5 10 1:200 / 1:400 VERT 0 0.2 0.4 0.6 0.8 1:20 / 1:40 HORIZ 0 1 2 3 4 1:100 / 1:200	Central Coast P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	CLIENT Central Coast Council	PROPOSED SPORTING FIELDS & ACCESS ROAD SCENIC DRIVE, COLONGRA LOT 500 D.P.755266 CPA/2963	COLONGRA SPORTING FIELDS DESIGN
DESIGN FILE: S:\239418\239418(1)\DESIGN\12D\SPORTING FIELDS											
ALL DIMENSIONS ARE IN METRES. DO NOT SCALE											
SURVEYED: TREHY INGOLD NEATE DATUM: A.H.D. PROJECT No.: 239405 DISCIPLINE: NUMBER: REV. 302											





PAVEMENT COMPOSITION
(FROM DOUGLAS PARTNERS REPORT REF: 75989.03 REV 0)

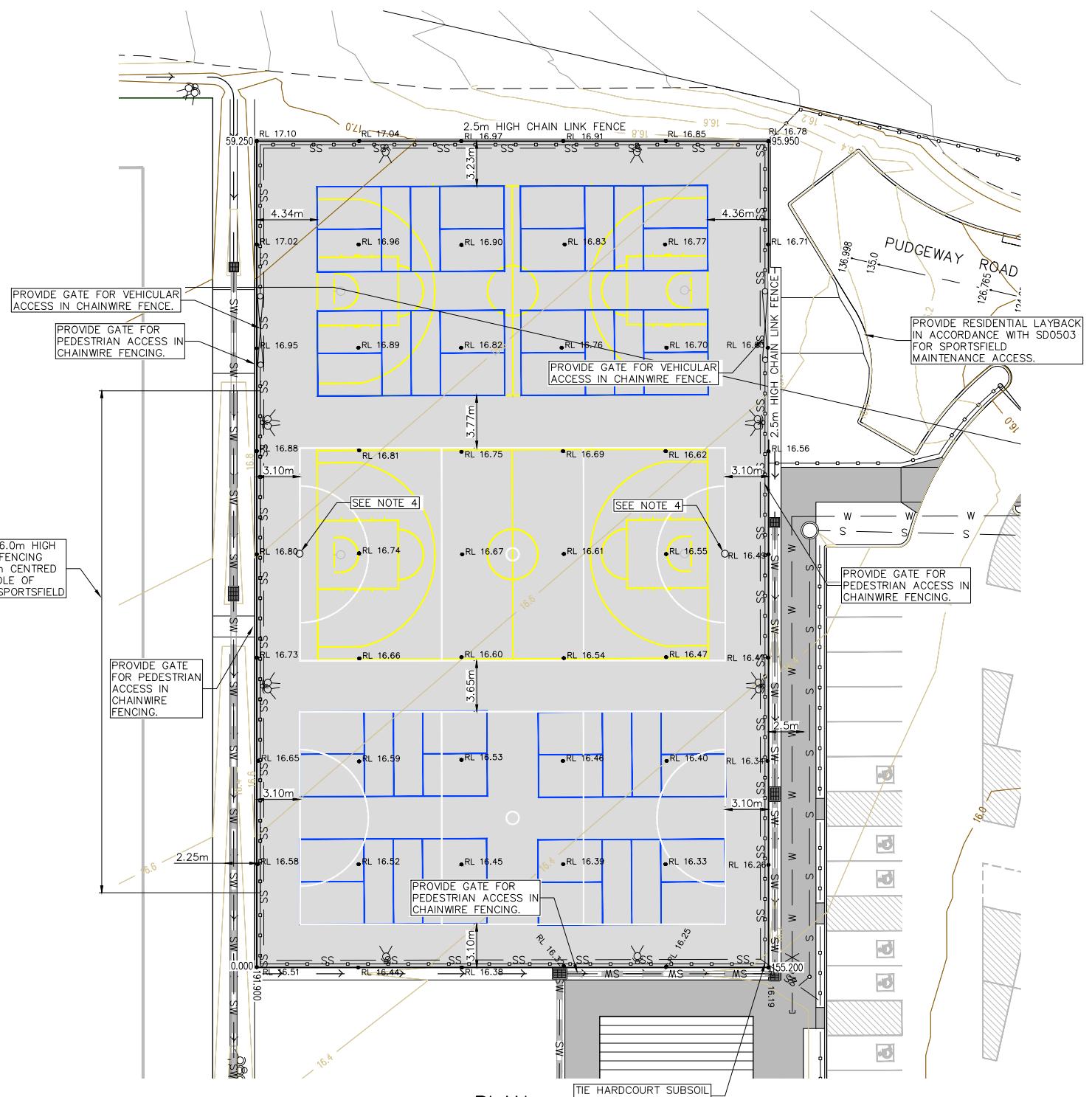
DESIGN TRAFFIC LOADING (ESAs)	DESIGN CBR (%)	PAVEMENT COMPOSITION			
		WEARING COURSE (mm)	BASE COURSE (mm)	SUB-BASE (mm)	
3.3×10^6	3	30 AC10 with Primer Seal	150	400	580



NOTE:

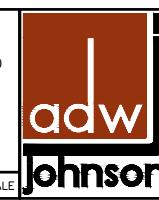
1. TAPER/BULLNOSE SM KERB FROM 150mm HIGH TO ZERO OVER 1.0m MIN.
2. SUBSOIL DRAINAGE TO ALL EXTERNAL CARPARK PAVEMENT EDGES IN ACCORDANCE WITH CCC STD. DRG. SD0301.
3. PAVEMENT DESIGN AND CONSTRUCTION METHODOLOGY IN ACCORDANCE WITH REPORT PREPARED BY DOUGLAS PARTNERS PTY. LTD. REF: 75989.03 REV 0 DATED FEBRUARY 2016.

CARPARK SETOUT TABLE									
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	DEP.SEG	DEP.RAD	DEP.LEN	
S 0.000	363966.582	6322571.737	16.360	193°01'50.02"	LINE	65.821			
DIS 65.821	363951.741	6322507.611	15.565	283°02'26.95"	LINE	56.132			
DIS 121.954	363897.057	6322520.277	15.122	296°19'39.33"	LINE	4.899			
DIS 126.853	363892.666	6322522.450	15.140	283°01'50.20"	LINE	7.910			
DIS 134.763	363884.959	6322524.233	15.338	13°01'50.87"	LINE	4.000			
DIS 138.763	363885.861	6322528.130	15.420	13°01'46.89"	LINE	2.510			
DIS 141.273	363888.307	6322527.564	15.438	13°01'49.94"	LINE	44.311			
TC 185.584	363898.298	6322570.734	15.881	13°01'49.94"	ARC	-3.500	6.285		
CT 191.869	363894.896	6322575.023	15.917	270°08'27.95"	LINE	18.679			
DIS 210.548	363876.218	6322575.069	15.468	0°08'04.75"	LINE	4.000			
DIS 214.547	363876.227	6322579.069	15.548	90°08'53.64"	LINE	86.543			
DIS 301.091	363962.770	6322578.845	16.463	180°08'45.56"	LINE	5.063			
TC 306.154	363962.757	6322573.782	16.361	180°08'45.56"	ARC	-1.000	1.319		
CC 307.473	363963.506	6322572.812	16.344	104°34'43.33"	ARC	19.994	3.263		
E 310.735	363966.582	6322571.737	16.360	113°55'40.82"					



REV	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
1	23.07.2025	UPDATED SEWER DESIGN BASED ON SERVICE LOCATION	B.U. J.J.	B.U. T.W.	B.U. T.W.	C.Sh C.Sh	0 5 10 A1 / A3 1:200 / 1:400
2	22.11.2025	UPDATED SEWER					

DESIGN FILE: S:\239418\239418(1)\DESIGN\12D\SPORTING FIELDS
ALL DIMENSIONS ARE IN METRES. DO NOT SCALE



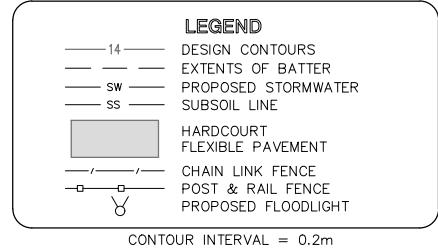
Central Coast
P.O. Box 3717,
Tuggerah N.S.W. 2259
Phone: (02) 4305 4300
Fax: (02) 4305 4399
email: coast@adwjohson.com.au
www.adwjohson.com.au
ABN 62 129 445 398



PROPERTY DESCRIPTION		PROJECT	
PROPOSED SPORTING FIELDS & ACCESS ROAD SCENIC DRIVE, COLONGRA LOT 500 D.P.755266 CPA/2963		COLONGRA SPORTING FIELDS DESIGN	
SURVEYED		PLAN TITLE	
TREHY INGOLD NEATE		NETBALL COURT DETAIL PLAN	

PROJECT No.	DISCIPLINE	NUMBER	REV.
239405	ENG	323	2

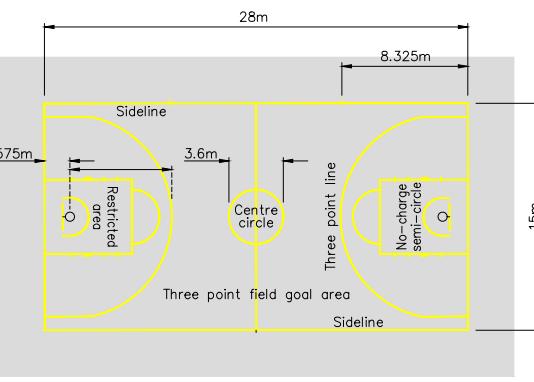
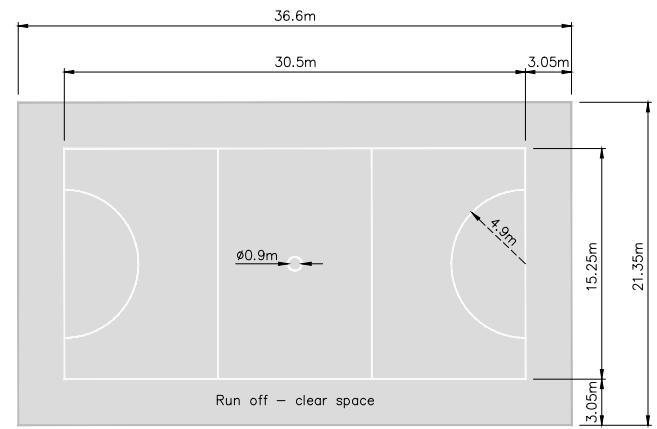
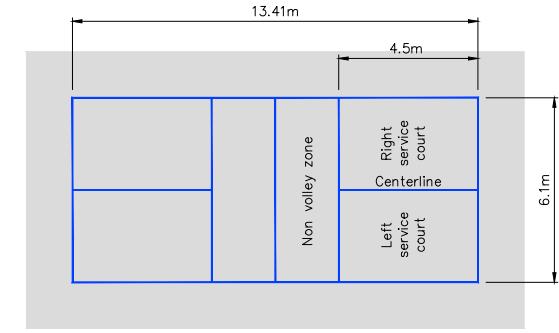
M.C.A.

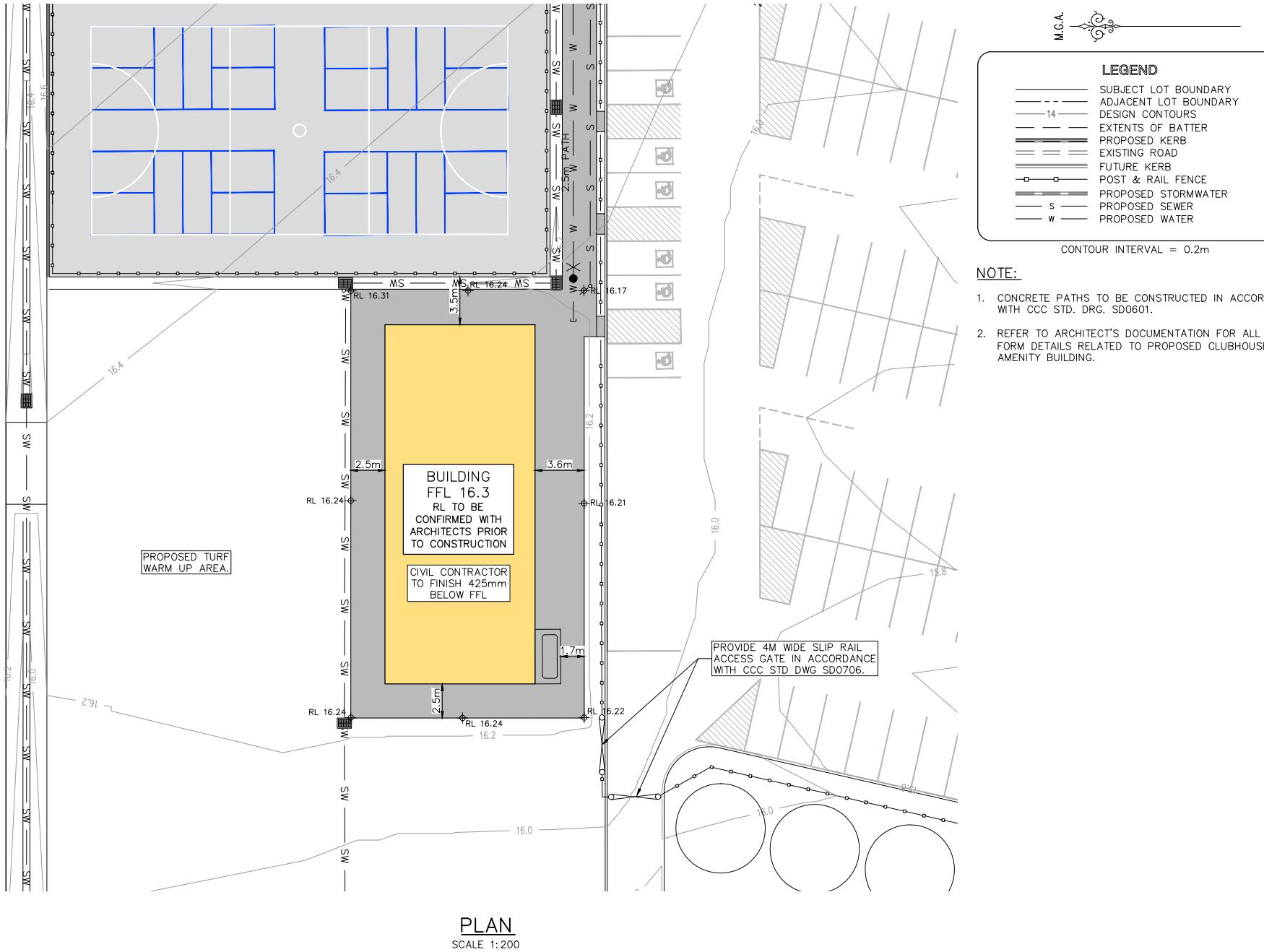


PAVEMENT COMPOSITION (COUNCIL STANDARD PAVEMENT DESIGN REF: 75989.03)

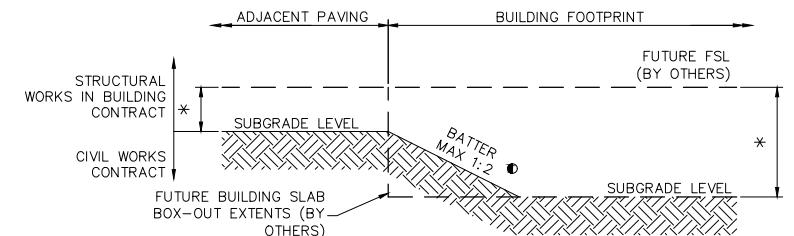
DESIGN CBR (%)	PAVEMENT COMPOSITION			
	WEARING COURSE (mm)	BASE COURSE (mm)	SUB-BASE (mm)	TOTAL PAVEMENT THICKNESS
3	30 AC10 with Primer Seal	150	300	480

COURTS SETOUT TABLE						
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	DEP. SEG.
S	0.000	363932.767	6322619.791	16.345	90°10'20.00"	LINE
DIS	59.250	363992.016	6322619.613	16.938	180°10'20.00"	36.700
DIS	95.950	363991.906	6322582.913	16.570	270°10'20.00"	59.250
DIS	155.200	363932.656	6322583.091	15.978	0°10'20.00"	LINE
E	191.900	363932.767	6322619.791	16.345	0°10'20.00"	36.700





AMENITY BLOCK SETOUT TABLE						
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	DEP. SEG
S	0.000	363929.160	6322584.202	15.950	270°10'20.00"	LINE
DIS	26.300	363902.860	6322584.281	15.950	0°10'20.00"	LINE
DIS	37.300	363902.893	6322595.281	15.950	90°10'20.00"	LINE
E	63.600	363929.193	6322595.202	15.950	180°10'20.00"	LINE
	74.600	363929.160	6322584.202	15.950	180°10'20.00"	



TEMPORARY SUBGRADE INTERFACE DETAIL
FOR TIE-IN BETWEEN BUILDING PADS &
ADJACENT SUBGRADE LEVELS

SCALE 1:15

- BATTER AS PART OF CIVIL WORKS. BUILDING CONTRACTOR TO COMPLETE BOX-OUT & DISPOSE OF BATTER MATERIAL.

- * DEPTH FROM FSL TO SUBGRADE AS FOLLOWS:
 - 175mm FOR PATHS
 - 425mm FOR BUILDING FOOTPRINT CIVIL WORKS TO SUBGRADE LEVEL ONLY

REV	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
1	23.07.2025	UPDATED SEWER DESIGN BASED ON SERVICE LOCATION	B.U. J.J.	B.U. T.W.	B.U. T.W.	C.Sh. C.Sh	0 5 10 A1 / A3 1:200 / 1:400
2	22.11.2025	UPDATED SEWER					0 2 4 A1 / A3 1:100 / 1:200

DESIGN FILE: S:\239418\239418(1)\DESIGN\12D\SPORTING FIELDS

ALL DIMENSIONS ARE IN METRES. DO NOT SCALE



Central Coast

5 Pioneer Avenue,
P.O. Box 3717,
Tuggerah N.S.W. 2259
Phone: (02) 4305 4300
Fax: (02) 4305 4399
email: coast@adwjohson.com.au
www.adwjohson.com.au
ABN 62 129 445 398



PROPERTY DESCRIPTION
PROPOSED SPORTING FIELDS & ACCESS ROAD
SCENIC DRIVE, COLONGRA
LOT 500 D.P.755266
CPA/2963

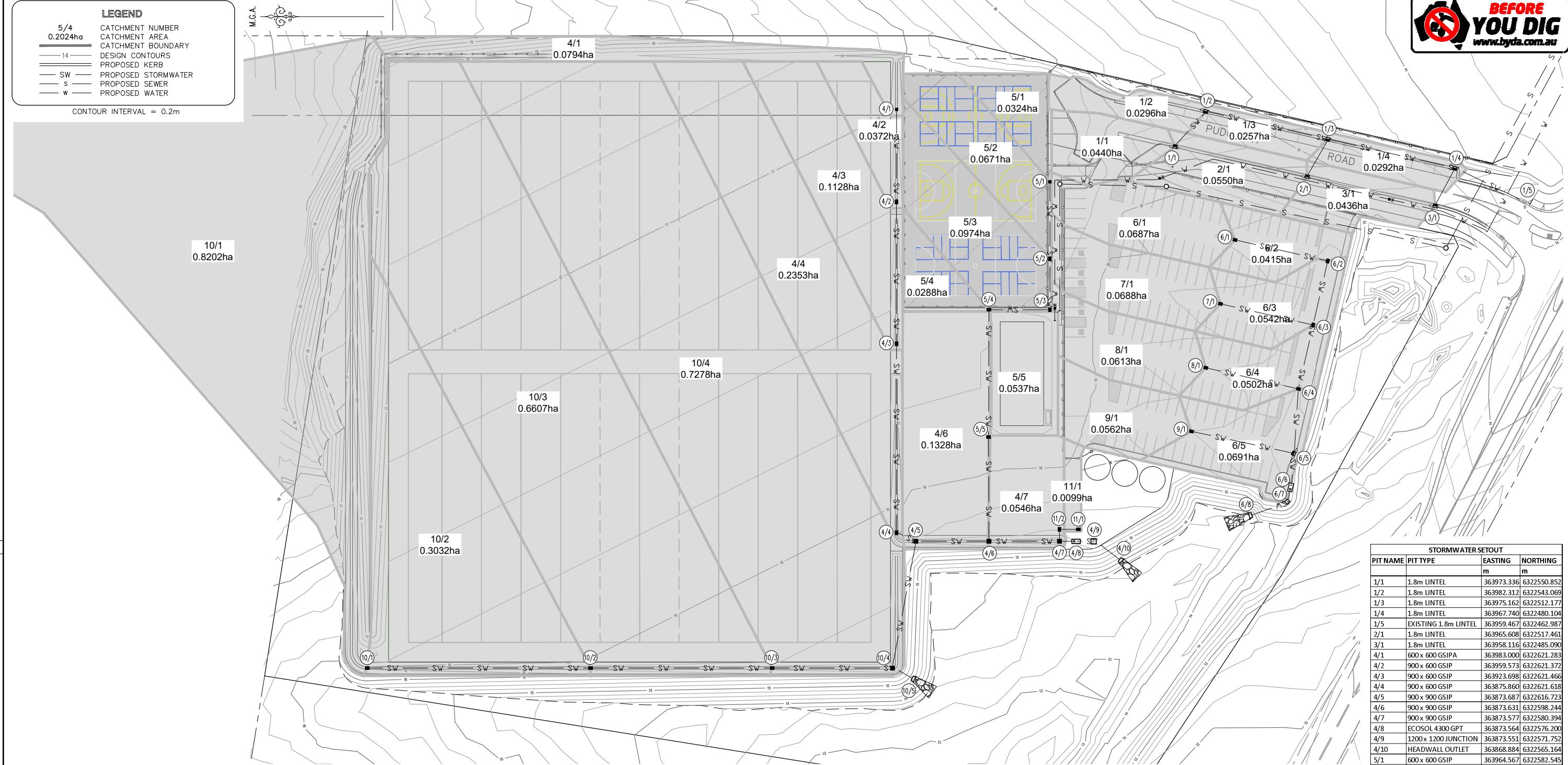
SURVEYED
TREHY INGOLD NEATE

DATUM
A.H.D.

PROJECT
COLONGRA SPORTING FIELDS DESIGN

PLAN TITLE
BUILDING, PLAY AREA & CONCRETE
PATH/VIEWING AREA PLAN

PROJECT No.
239405 - DISCIPLINE
ENG - NUMBER
331 REV.
2



STORMWATER SETOUT			
PIT NAME	PIT TYPE	EASTING	NORTHING
1/1	1.8m LINTEL	363973.336	632250.852
1/2	1.8m LINTEL	363982.312	6322543.069
1/3	1.8m LINTEL	363975.162	6322512.177
1/4	1.8m LINTEL	363967.740	6322480.104
1/5	EXISTING 1.8m LINTEL	363959.467	6322462.987
2/1	1.8m LINTEL	363965.608	6322517.461
3/1	1.8m LINTEL	363958.116	6322485.090
4/1	600 x 600 GSIP	363983.000	6322621.283
4/2	900 x 600 GSIP	363959.573	6322621.372
4/3	900 x 600 GSIP	363923.998	6322621.466
4/4	900 x 600 GSIP	363875.860	6322621.618
4/5	900 x 900 GSIP	363873.687	6322616.723
4/6	900 x 900 GSIP	363873.631	6322598.244
4/7	900 x 900 GSIP	363873.577	6322580.394
4/8	ECOSOL 4300 GPT	363873.564	6322576.200
4/9	1200 x 1200 JUNCTION	363873.551	6322571.752
4/10	HEADWALL OUTLET	363868.884	6322565.164
5/1	600 x 600 GSIP	363994.567	6322582.545
5/2	900 x 600 GSIP	363945.087	6322582.604
5/3	600 x 900 GSIP	363932.205	6322582.643
5/4	900 x 600 GSIP	363932.251	6322598.068
5/5	600 x 900 GSIP	363900.026	6322598.258
6/1	900 x 600 GSIP	363949.733	6322535.746
6/2	900 x 600 GSIP	363944.311	6322512.317
6/3	900 x 600 GSIP	363928.139	6322516.060
6/4	600 x 900 GSIP	363911.966	6322519.803
6/5	2.4m LINTEL SAG	363895.603	6322520.996
6/6	ECOSOL 4300 GPT	363887.070	6322521.866
6/7	900 x 900 JUNCTION	363883.433	6322522.708
6/8	HEADWALL OUTLET	363880.076	6322531.741
7/1	900 x 600 GSIP	363933.561	6322539.489
8/1	900 x 600 GSIP	363917.388	6322543.232
9/1	900 x 600 GSIP	363901.308	6322546.931
10/1	900 x 600 GSIP	363842.022	6322755.626
10/2	900 x 600 GSIP	363841.853	6322699.113
10/3	900 x 600 GSIP	363841.717	6322653.165
10/4	900 x 600 GSIP	363841.626	6322622.726
10/5	HEADWALL OUTLET	363839.046	6322617.732
11/1	900 x 600 GSIP	363876.594	6322575.593
11/2	900 x 600 GSIP	363876.605	6322580.385

REV	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
1	23.07.2025	UPDATED SEWER DESIGN BASED ON SERVICE LOCATION	B.U. J.J.	B.U. T.W.	B.U. T.W.	C.Sh C.Sh	0 10 20 A1 / A3 1:500 / 1:1000
2	22.11.2025	UPDATED SEWER					

DRAWN: B.U. B.U. B.U. C.Sh
CHECK: J.J. T.W. T.W. C.Sh
DESIGN: 0 10 20 A1 / A3
VERIFY: 1:500 / 1:1000



Central Coast
P.O. Box 2259
Tuggerah N.S.W. 2259
Phone: (02) 4305 4300
Fax: (02) 4305 4399
email: coast@adwjohson.com.au
www.adwjohson.com.au
ABN 62 129 445 398

CLIENT

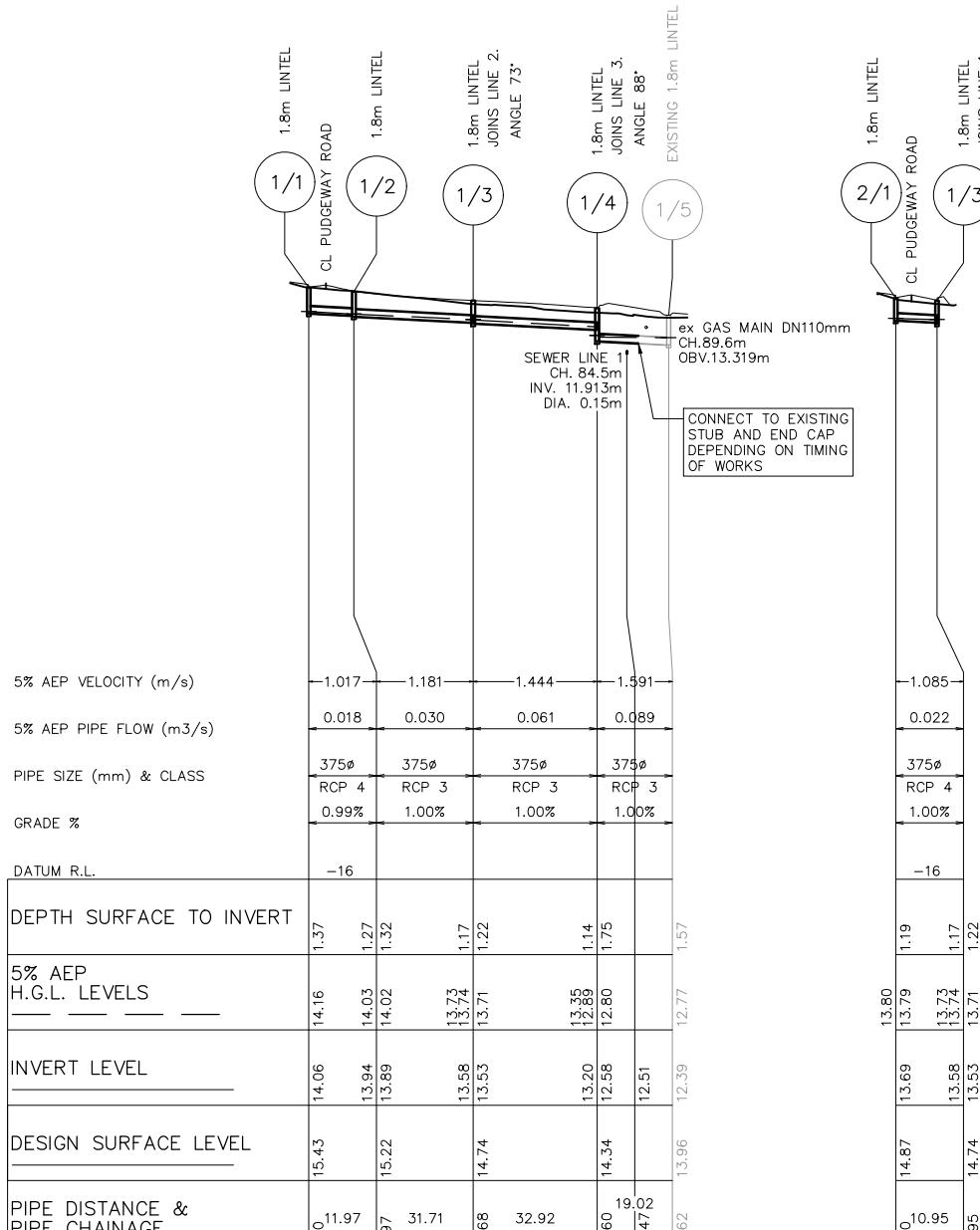


PROPERTY DESCRIPTION
PROPOSED SPORTING FIELDS & ACCESS ROAD
SCENIC DRIVE, COLONGRA
LOT 500 D.P.755266
CPA/2963

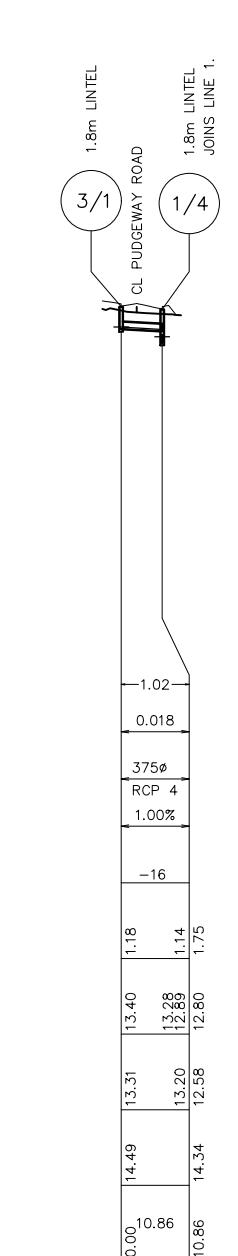
PROJECT COLONGRA SPORTING FIELDS DESIGN
PLAN TITLE STORMWATER CATCHMENT PLAN & SETOUT TABLE
PROJECT No. 239405 - DISCIPLINE ENG - NUMBER 401 REV. 2

5% AEP HYDROLOGICAL DESIGN																							
PIT	PIT	AREA	IMPER.	PER.	tc IMPER.	tc PER.	INTENSITY	RUNOFF	RUNOFF	CRITICAL SUM	CATCHMENT	BYPASS	TOTAL FLOW	PIT INLET	PIT BYPASS	BYPASS	Ku	GUTTER	FLOODED	FLOW	VELOCITYx	MAX POND	CHOKE
		NAME		DETAILS		C IMPER.	C PER.	CA	FLOW	ARRIVING	@ PIT	FLOW	FLOW	PIT	SLOPE	DEPTH	WIDTH	DEPTH	m	m	m	1=NONE	
ha	%	%	min	min	mm/hr				L/s	L/s	L/s	L/s	L/s		%	m	m	m	m	m			
1/1	1.8m LINTEL	0.044	80	20	5	5	188	0.86	0.44	0.034	18	0	18	18	0	2/1	3.6	2.3	0.06	0.93	0.05	1	
1/2	1.8m LINTEL	0.0296	80	20	5	5	188	0.86	0.44	0.023	12	0	12	12	0	1/3	2.4	2	0.05	0.82	0.04	1	
1/3	1.8m LINTEL	0.0257	80	20	5	5	188	0.86	0.44	0.02	10	0	10	10	0	1/4	1.8	1	0.06	0.87	0.03	1	
1/4	1.8m LINTEL	0.0292	80	20	5	5	188	0.86	0.44	0.023	12	0	12	12	0		2.2	2.2	0.06	0.85	0.03	1	
1/5	EXISTING 1.8m LINTEL		80	20	5	5																1	
2/1	1.8m LINTEL	0.055	80	20	5	5	188	0.86	0.44	0.043	22	0	22	22	0	3/1	3.6	1	0.07	1.26	0.04	1	
3/1	1.8m LINTEL	0.0436	80	20	5	5	188	0.86	0.44	0.034	18	0	18	18	0		3.6	1.8	0.06	0.99	0.04	1	
4/1	600 x 600 GSIP	0.0794	0	100	5	20	107			0.044	0.035	10	0	10	10	0	4/2	3.6		0.02		0.19	1
4/2	900 x 600 GSIP	0.0372	0	100	5	12	135			0.016	6	0	6	6	0	4/3	1.7		0.01		0.23	1	
4/3	900 x 600 GSIP	0.1128	0	100	5	16	119			0.05	16	0	16	16	0	4/4	2.2	1	0.02			1	
4/4	900 x 600 GSIP	0.2353	0	100	5	18	113			0.104	32	0	32	31	1	4/5	1.7	1	0.05	1.03	0.04	1	
4/5	900 x 900 GSIP										0	0	1	1	0	4/6	1.2	1	0.01	0.72	0	1	
4/6	900 x 900 GSIP	0.1328	0	100	5	10	146			0.044	0.058	24	1	25	0	25	4/7	2	1	0.04	0.96	0.03	1
4/7	900 x 900 GSIP	0.0546	0	100	5	5	188			0.024	13	25	38	38	0	4/8	0.9	1	0.03		0.3	1	
4/8	ECOSOL 4300 GPT		80	20	5	5																1	
4/9	1200 x 1200 JUNCTION		80	20	5	5																1	
4/10	HEADWALL OUTLET		80		5	5																1	
5/1	600 x 600 GSIP	0.0324	100	0	5	5	188	0.86		0.028	15	0	15	15	0	5/2	3.6	1	0.04	3.08	0.01	1	
5/2	900 x 600 GSIP	0.0671	100	0	5	5	188	0.86		0.058	30	0	30	29	1	5/3	3.7	1	0.04	0.9	0.07	1	
5/3	600 x 900 GSIP	0.0974	100	0	5	5	188	0.86		0.084	44	1	45	40	5	8/1	2.3	0.9	0.04		0.04	1	
5/4	900 x 600 GSIP	0.0288	80	20	5	5	188	0.86	0.44	0.022	12	0	12	12	0	5/3	2.2	0.9	0.04	0.9	0.03	1	
5/5	600 x 900 GSIP	0.0537	100	0	5	5	188	0.86		0.046	24	0	24	24	0	4/6	1.1		0	8.46	0.01	1	
5/6	900 x 600 GSIP	0.0687	100	0	5	5	188	0.86		0.059	31	0	31	30	1	6/2	3.6		0.04	3.72	0.02	1	
5/7	900 x 600 GSIP	0.0415	100	0	5	5	188	0.86		0.036	19	1	20	20	0	6/3	2					1	
5/8	900 x 900 GSIP	0.1328	0	100	5	10	146			0.044	0.058	24	1	25	0	25	4/7	1.6	1	0.04	0.96	0.03	1
5/9	900 x 900 GSIP	0.0546	0	100	5	5	188			0.024	13	25	38	38	0	4/10	0.9	1	0.03		0.3	1	
5/10	2.4m LINTEL SAG	0.0691	95	5	5	5	188	0.86	0.44	0.058	30	1	31	31	0	13	1.1	0.04			0.15	1	
5/11	ECOSOL 4300 GPT		80	20	5	5																1	
5/12	900 x 600 GSIP		80	20	5	5	0			0	0	0	0	0	0	4/7	2.1					1	

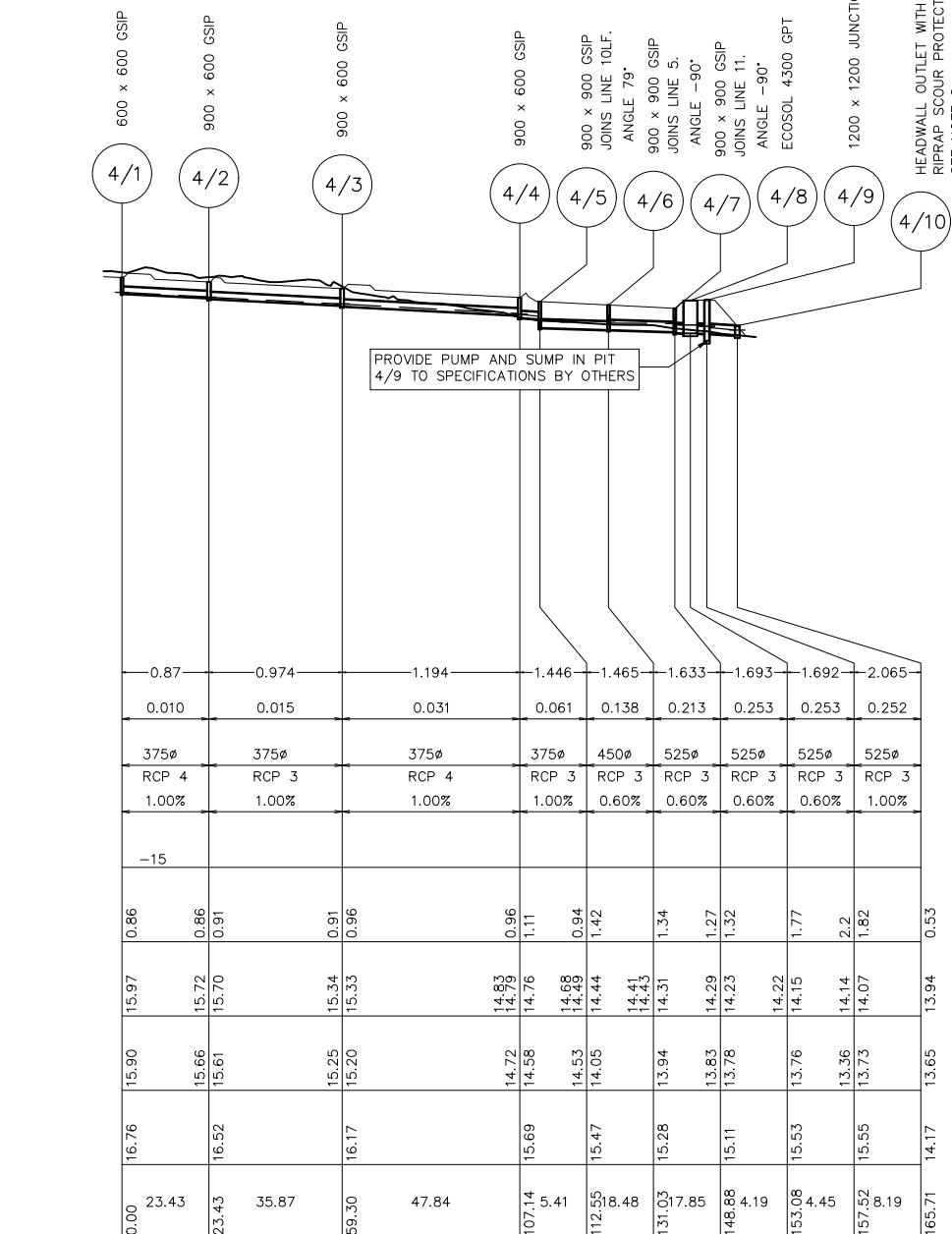
5% AEP HYDRAULIC DESIGN																			
REACH	TYPE	LENGTH	DIA.	U/S IL	D/S IL	PIPE	PIPE	PIPE	GRADE	FLOW	VELOCITY	U/S HGL	D/S HGL	GRADE HGL	U/S PIT				
m	mm	m	m	%	L/s														



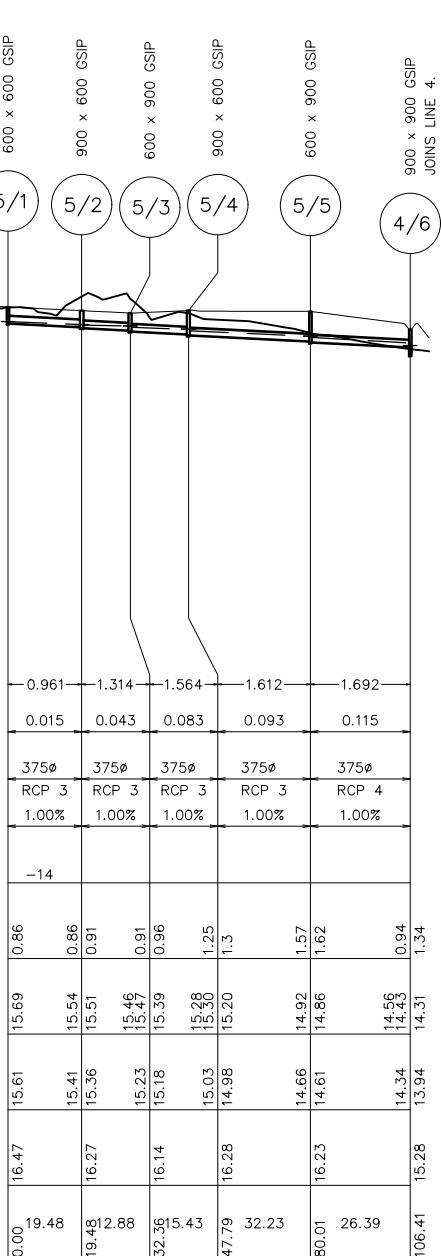
LINE 1



LINE 2

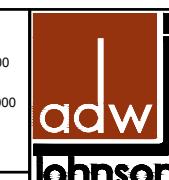


LINE 4



LINE 5

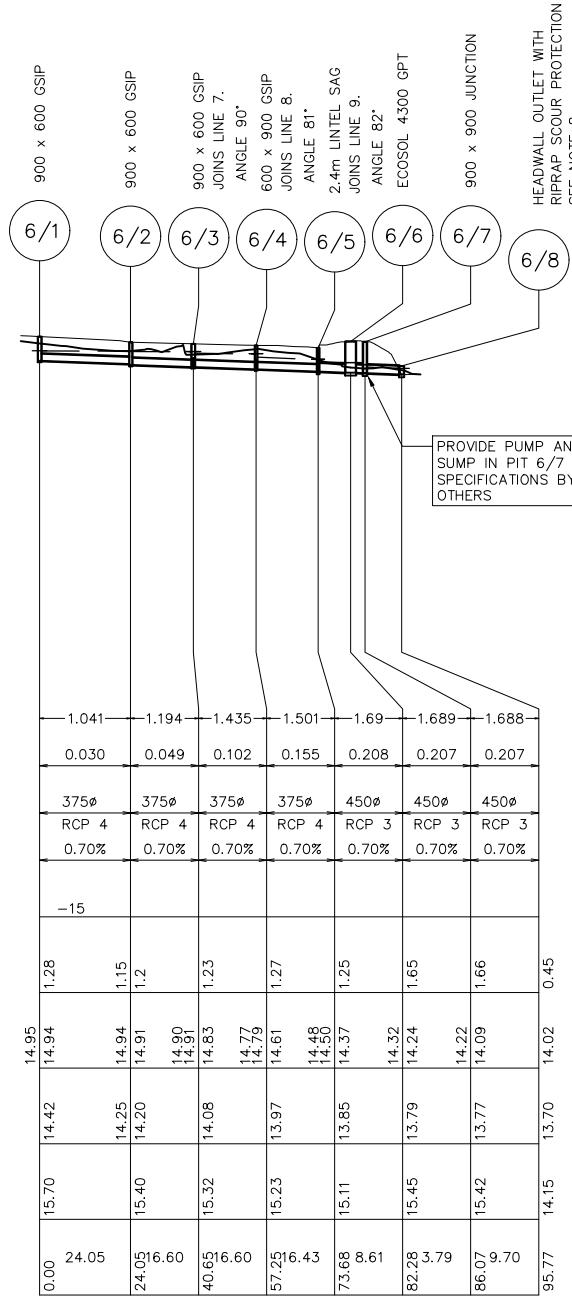
REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALE
1	23.07.2025	UPDATED SEWER DESIGN BASED ON SERVICE LOCATION	B.U. J.J.	B.U. T.W.	B.U. T.W.	C.Sh C.Sh	0 2 4 VERT A1 / 1:100 /
2	22.11.2025	UPDATED SEWER					0 20 40 HORIZ A1 / 1:1000 /



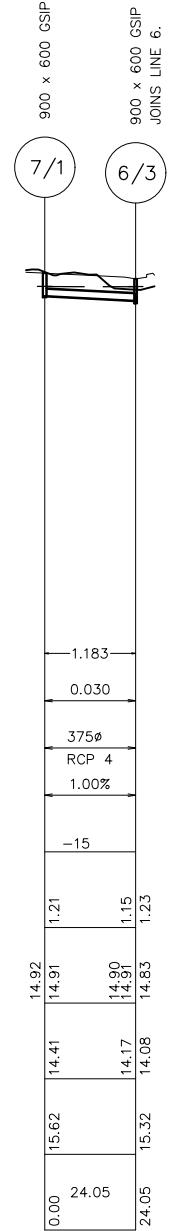
Central Coast
5 Pioneer Avenue,
P.O. Box 3717,
Tuggerah N.S.W. 2259
Phone: (02) 4305 4300
Fax: (02) 4305 4399
email: coast@adwjohanson.com
www.adwjohanson.com.au
ABN: 62 129 445 708



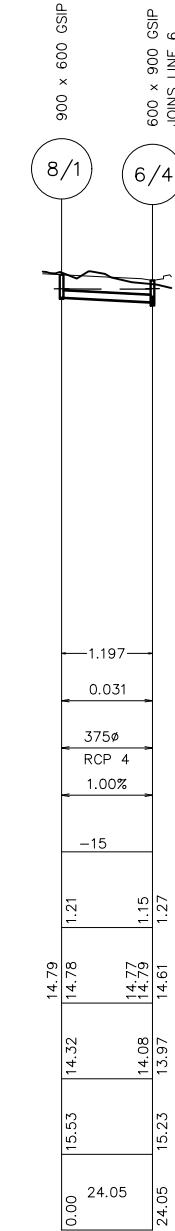
PROPERTY DESCRIPTION
PROPOSED SPORTING FIELDS & ACCESS ROAD
SCENIC DRIVE, COLONGRA
LOT 500 D.P.755266
CPA/2963



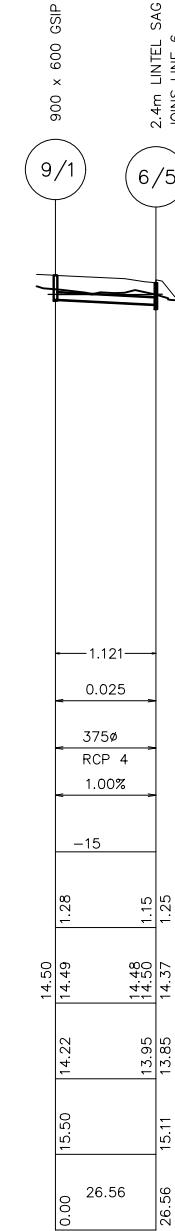
LINE 6



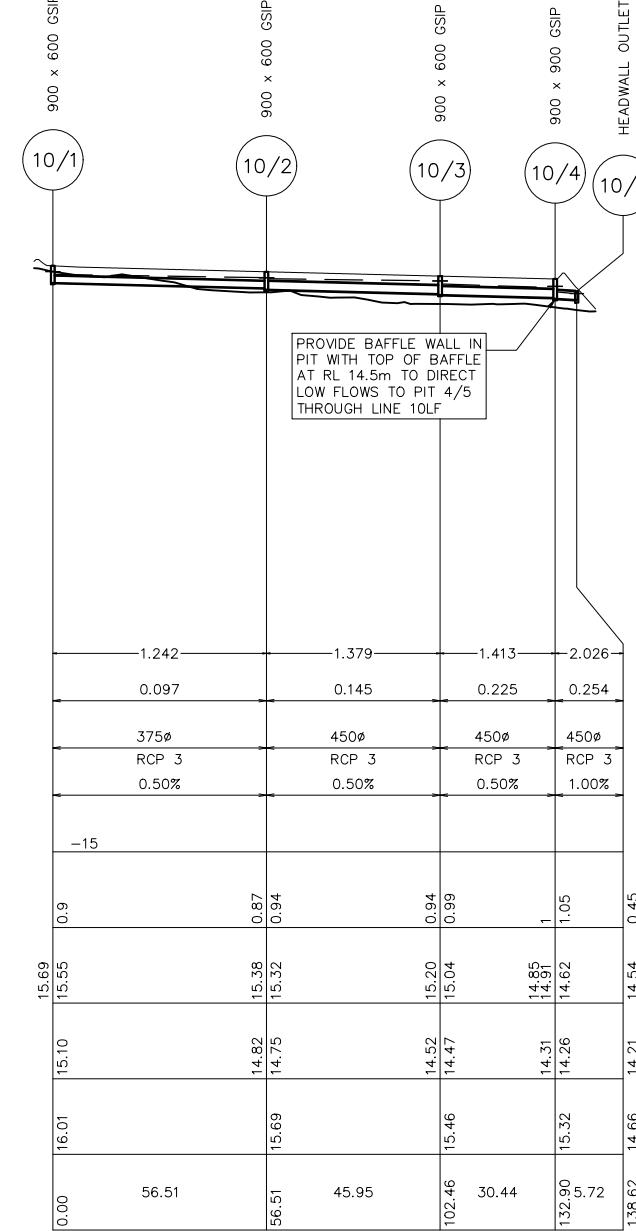
LINE 7



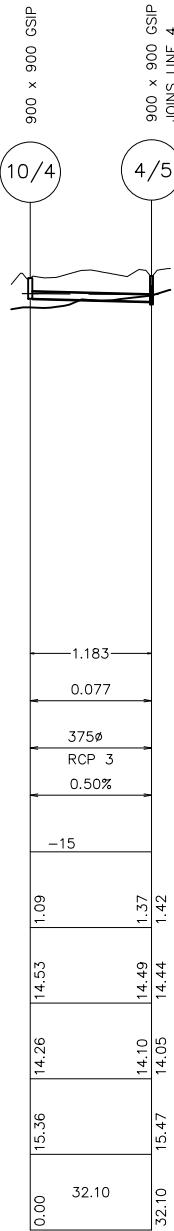
LINE 8



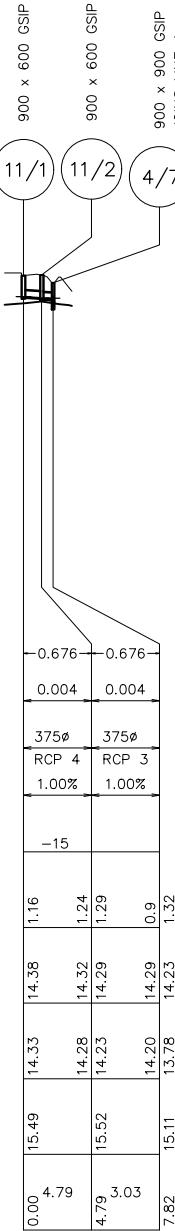
LINE 9



LINE 10



LINE 10LF

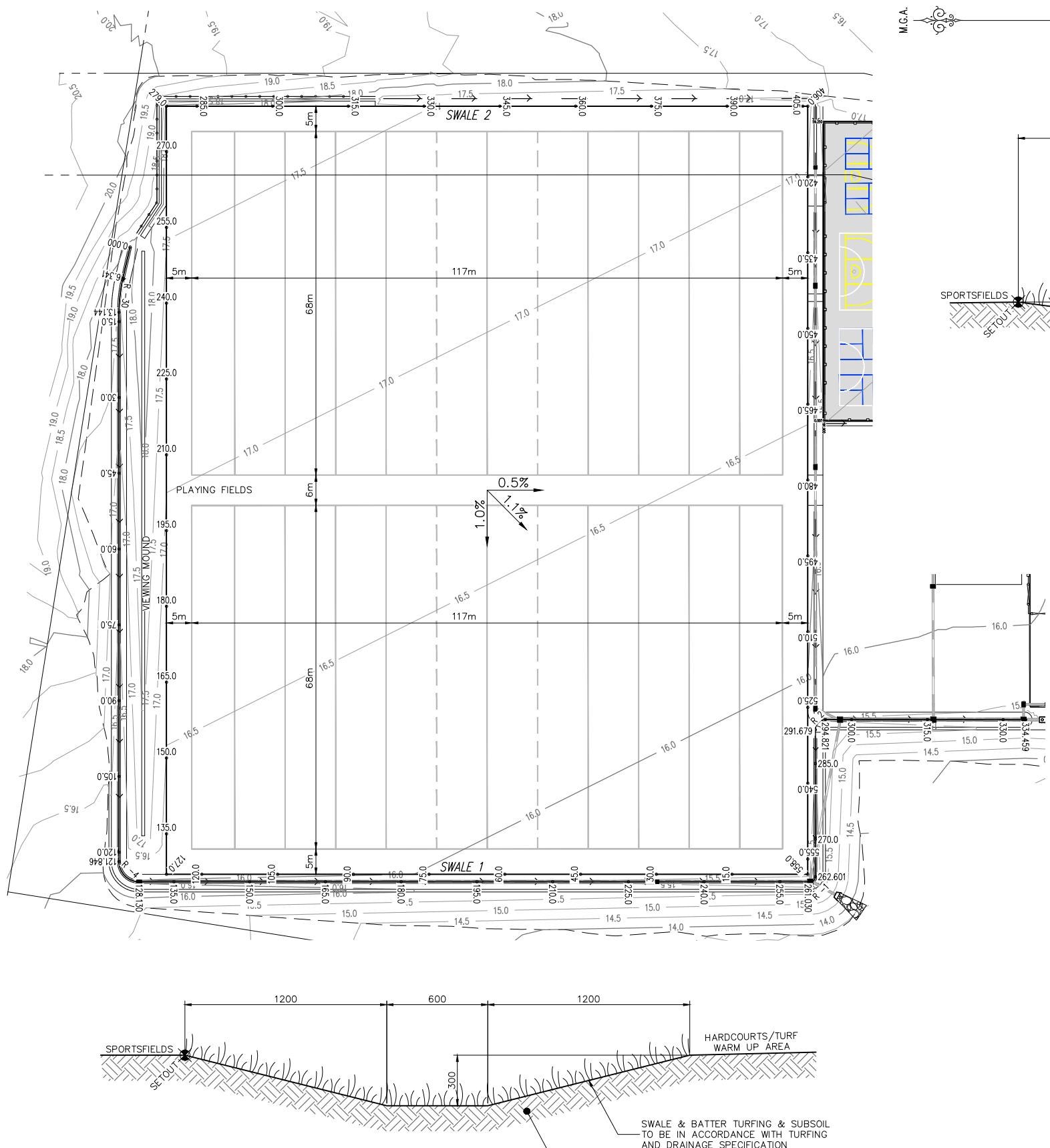


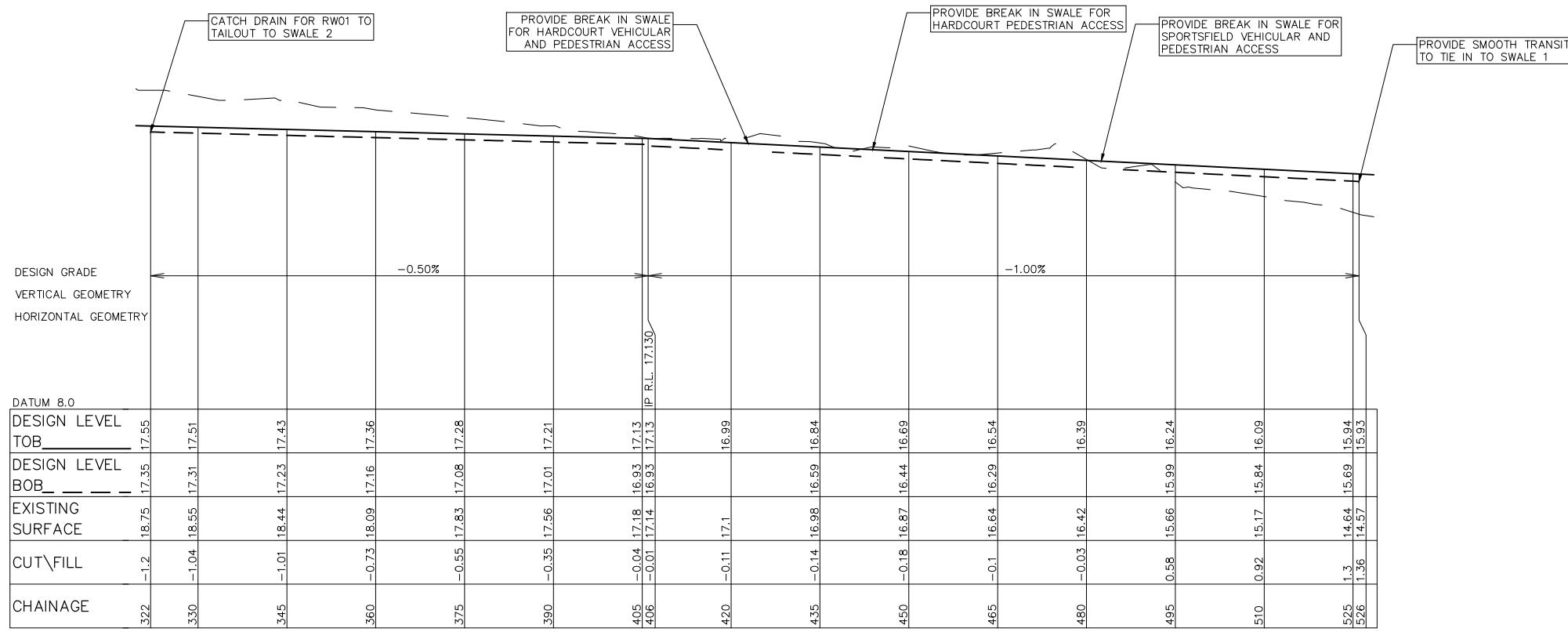
LINE 11

NOTES:

1. ALL PITS DEEPER THAN 1.2m TO HAVE STEP IRONS
2. WHERE CLEARANCE BETWEEN THE TOP OF THE SEWER PIPE AND THE UNDERSIDE OF THE STORMWATER IS LESS THAN 200mm A CONCRETE SUPPORT CRADLE IS TO BE PROVIDED AS PER CENTRAL COAST COUNCIL STANDARD DRAWING SD66A OR AS DIRECTED BY COUNCIL SUPERVISOR.
3. ALL GRATED SURFACE INLET PITS (GSIP) TO BE IN ACCORDANCE WITH SD0405.
4. ALL CONCRETE PIPES TO BE RUBBER RING JOINTS.
5. PIT TO HAVE CLASS D HEAVY DUTY WELDLOK TRAFFICABLE GRATE OR EQUIVALENT.
6. ECOSOL GPT OR APPROVED EQUIVALENT TO BE CONSTRUCTED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
7. PUMP WELLS TO BE DESIGNED AND CONSTRUCTED BY THE CONTRACTOR AS PART OF WORKS UNDER CONTRACT AND IN ACCORDANCE WITH THE DRAINAGE AND IRRIGATION SPECIFICATIONS.
8. OUTLET SCOUR PROTECTION. SEE SHEET 111 FOR DETAILS.

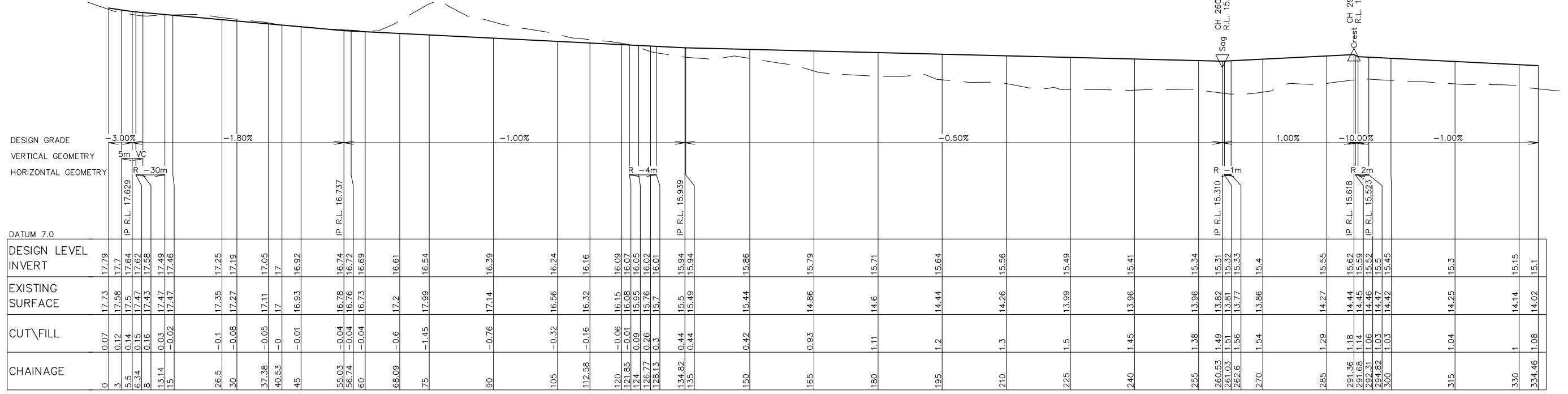
REV	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT
1	23.07.2025	UPDATED SEWER DESIGN BASED ON SERVICE LOCATION	B.U. J.J.	B.U. T.W.	B.U. T.W.	C.Sh. C.Sh	0 2 4 VERT 1:100 / 1:200 0 20 40 HORIZ 1:1000 / 1:2000	Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohson.com.au www.adwjohson.com.au ABN 62 129 445 398	PROPOSED SPORTING FIELDS & ACCESS ROAD SCENIC DRIVE, COLONGRA LOT 500 D.P.755266 CPA/2963	COLONGRA SPORTING FIELDS DESIGN
2										
DESIGN FILE S:\239418\239418(1)\DESIGN\12D\SPORTING FIELDS										
ALL DIMENSIONS ARE IN METRES. DO NOT SCALE										
4.79	15.52	3.03	32.10	15.47	14.05	14.44	1.42	TREHY INGOLD NEATE	DATUM	PROJECT No.
4.79	15.52	3.03	32.10	15.47	14.05	14.44	1.42	A.H.D.	239405	DISCIPLINE
									-	NUMBER
									-	REV.
									422	2





ENG CL SWALE->SWALE 1 HORIZONTAL SEGMENTS								
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	DEP.SEG	DEP.RAD	DEP.LEN
S	0.000	363967.652	6322757.051	17.794	283°10'00.71"	LINE	6.341	6.341
TC	6.341	363961.478	6322758.495	17.618	283°10'00.71"	ARC	-30.000	6.803
CT	13.144	363954.735	6322759.284	17.492	270°10'26.12"	LINE	108.702	
TC	121.846	363846.034	6322759.614	16.063	270°10'26.12"	ARC	-4.000	6.283
CT	128.130	363842.022	6322755.626	16.006	180°10'13.57"	LINE	132.900	
TC	261.030	363841.626	6322622.726	15.315	180°10'13.57"	ARC	-1.000	1.571
CT	262.601	363842.623	6322621.723	15.331	90°09'45.89"	LINE	29.079	
TC	291.679	363871.702	6322621.641	15.586	90°09'45.89"	ARC	2.000	3.142
CT	294.821	363873.696	6322619.635	15.498	180°10'26.12"	LINE	39.638	
E	334.459	363873.576	6322579.997	15.102	180°10'26.12"			

ENG CL SWALE->SWALE 2 HORIZONTAL SEGMENTS							
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	DEP.SEG	DEP.LEN
S	0.000	363843.124	6322623.222	15.610	0°10'20.00"	LINE	127.000
DIS	127.000	363843.505	6322750.221	16.245	90°10'26.12"	LINE	152.000
DIS	279.000	363959.505	6322749.760	17.765	180°10'20.00"	LINE	127.000
DIS	406.000	363955.123	6322622.761	17.130	270°10'26.12"	LINE	152.000
E	558.000	363843.124	6322623.222	15.610	270°10'26.12"		



LONGITUDINAL SECTION SWALE 2

HORIZONTAL SCALE 1:500

VERTICAL SCALE 1:100

LONGITUDINAL SECTION SWALE 1

HORIZONTAL SCALE 1:500

VERTICAL SCALE 1:100

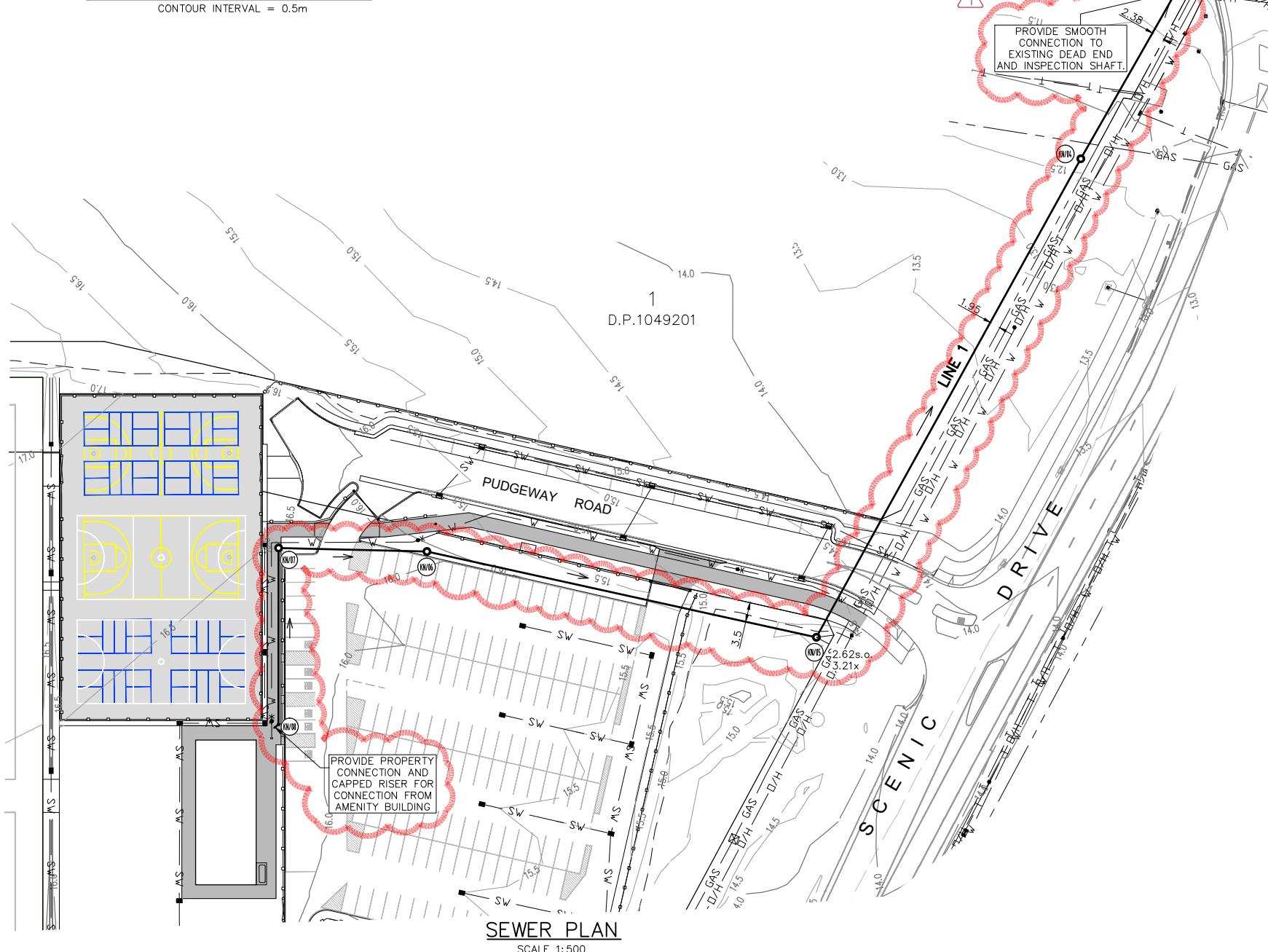
REV	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT
1	23.07.2025	UPDATED SEWER DESIGN BASED ON SERVICE LOCATION	B.U. J.J.	B.U. T.W.	B.U. T.W.	C.Sh. C.Sh.	0 2 4 VERT 1:100 / 1:200 HORIZ 1:500 / 1:1000	Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	PROPOSED SPORTING FIELDS & ACCESS ROAD SCENIC DRIVE, COLONGRA LOT 500 D.P.755266 CPA/2963	COLONGRA SPORTING FIELDS DESIGN
DESIGN FILE S:\239418\239418(1)\DESIGN\12D\SPORTING FIELDS										
ALL DIMENSIONS ARE IN METRES. DO NOT SCALE										
2	22.11.2025	UPDATED SEWER						Central Coast Council	PROPERTY DESCRIPTION	COLONGRA SPORTING FIELDS DESIGN
SURVEYED TREHY INGOLD NEATE										
DATUM TREHY INGOLD NEATE A.H.D.										
PROJECT No. 239405										
DISCIPLINE ENG										
NUMBER 432										
REV. 2										

M.G.A.

LEGEND

- SUBJECT LOT BOUNDARY
- ADJACENT LOT BOUNDARY
- DESIGN CONTOURS
- PROPOSED KERB
- EXISTING ROAD
- FUTURE KERB
- PROPOSED SEWER
- PROPOSED STORMWATER
- PROPOSED WATER
- EXISTING GAS
- EXISTING OVERHEAD POWER
- EXISTING TELSTRA
- EXISTING WATER
- EXISTING STORMWATER
- PROPOSED ACCESS CHAMBER
- PROPOSED MAINTENANCE SHAFT/DEAD END
- EXISTING SEWER PIT NUMBER

CONTOUR INTERVAL = 0.5m



GRAVITY SEWER CONSTRUCTION NOTES:-

- CONSTRUCTION OF GRAVITY SEWER LINES SHALL BE IN ACCORDANCE WITH THE SYDNEY WATER EDITION OF THE "SEWERAGE CODE OF AUSTRALIA" WSA02-2002 WITH CENTRAL COAST COUNCIL SUPPLEMENTS. THESE NOTES SPECIFY CENTRAL COAST COUNCIL'S PARTICULAR REQUIREMENTS IN THESE DOCUMENTS IN RELATION TO THE CONSTRUCTION OF GRAVITY SEWER MAINS AND ASSOCIATED MAINTENANCE STRUCTURES.
- PIPE FOR GRAVITY SEWER MAINS SHALL GENERALLY BE FLEXIBLE PIPES WITH RUBBER RING JOINTS. THE TYPE OF PIPE MATERIAL AND CLASS OF PIPE SHALL BE AS SPECIFIED ON THE DRAWINGS. PIPE MUST BE A MINIMUM CLASS SN8. PIPES IN MINE SUBSIDENCE AREAS SHALL NOT BE GREATER THAN 3M IN LENGTH, SHALL INCORPORATE FLEXIBLE JOINTS AND HAVE A SMOOTH EXTERNAL SURFACE. PIPES TO BE USED IN MINE SUBSIDENCE AREAS SHALL BE CERTIFIED BY THE PIPE SUPPLIER TO BE SUITABLE FOR THE PREDICTED GROUND STRAINS AS ADVISED BY THE MINE SUBSIDENCE BOARD. PROFILED/RIBBED PIPES ARE NOT PERMITTED IN MINE SUBSIDENCE AREAS.
- PIPE EMBEDMENT SHALL BE AS SPECIFIED ON THE DRAWINGS AND IN ACCORDANCE WITH STANDARD DRAWINGS SEW-1251-S, SEW-1202, SEW-1203, SEW-1204 AND SEW-1205-V. SHOULD GROUND CONDITIONS ENCOUNTERED NOT BE SUITABLE FOR THE SPECIFIED EMBEDMENT THEN THE EMBEDMENT TYPE SHALL BE CHANGED TO SUIT THE SITE CONDITIONS. TRENCH FILL UNDER AREAS OF EXISTING ROAD PAVEMENT SHALL BE STABILISED SAND IN ACCORDANCE WITH SECTION 4.9 OF CENTRAL COAST COUNCIL'S 'CIVIL CONSTRUCTION SPECIFICATION'.
- REQUIREMENTS FOR TRENCH STOPS AND BULKHEADS SHALL BE AS SPECIFIED ON THE DESIGN DRAWINGS AND IN ACCORDANCE WITH STANDARD DRAWINGS SEW-1206 AND SEW-1207-V.
- ALL PROPERTY CONNECTIONS SHALL BE IN ACCORDANCE WITH THE "BURIED INTERFACE METHOD" AS DESCRIBED ON STANDARD DRAWING SEW-1107 WITH THE FOLLOWING AMENDMENTS:
 - DOUBLE CONNECTIONS FROM VERTICAL RISERS ARE NOT ALLOWED
 - ADD NOTE '7. THE BASE OF ALL RISER ASSEMBLIES SHALL BE CONCRETE ENCASED IN 20 MPA CONCRETE'.
- MAINTENANCE HOLES (MH) SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DRAWINGS SEW-1300-V TO SEW-1302-V, SEW-1303, SEW-1304-V, SEW-1305 AND SEW-1306-V TO SEW-1308-V. THE USE OF INTERNAL DROPS AS SHOWN ON STANDARD DRAWING SEW-1306-V WILL ONLY BE ALLOWED IF SPECIFIED ON THE DESIGN DRAWINGS OR SPECIFIC APPROVAL HAS BEEN OBTAINED FROM CENTRAL COAST COUNCIL. IN REGARDS TO STANDARD DRAWING SEW-1308-V COVERS MAY BE METAL, METAL WITH CONCRETE INFILL, OR CONCRETE. IN REGARDS TO STANDARD DRAWINGS SEW-1300-V REPLACE NOTE 14. WITH "ANY SPECIAL REQUIREMENTS FOR MAINTENANCE HOLES WITH RMS/CLASSIFIED ROAD WILL BE ADVISED BY CENTRAL COAST COUNCIL". ROCKER PIPES (SHORTS) OF 600mm LENGTH WILL BE REQUIRED ON ALL PIPE LINES AT MANHOLES FOR ALL PIPE TYPES.
- MAINTENANCE SHAFTS (MS) AND TERMINAL MAINTENANCE SHAFTS (TMS) WHERE SHOWN ON THE DESIGN DRAWINGS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DRAWINGS SEW-1314-V, SEW-1315, SEW-1316-V AND SEW-1317. MS'S OR TMS'S SHALL NOT BE USED TO CREATE A DROP IN A SEWER RETICULATION MAIN. A TMS SHALL BE CONSTRUCTED AT THE ENDS OF ALL TERMINATING SEWERS UNLESS THE DISTANCE FROM THE END OF THE LINE TO THE NEAREST DOWNSTREAM MAINTENANCE STRUCTURE IS LESS THAN 40m.
- ACCEPTANCE TESTING OF SEWER MAINS SHALL BE ARRANGED BY THE CONTRACTOR. ACCEPTANCE TESTING SHALL BE IN ACCORDANCE WITH WSA-02 PART 3 SECTION 22 AND INCLUDE:
 - COMPACTION TESTING OF TRENCH FILL
 - PRESSURE TESTING OR VACUUM TESTING OF PIPELINES
 - VACUUM TESTING OF MAINTENANCE HOLES
 - CCTV INSPECTION
 - DEFLECTION (OVALITY) FOR MAINS >300mm DIAMETER.
- SEWERS AND ASSOCIATED STRUCTURES SHALL BE CONSTRUCTED TO THE TOLERANCES DETAILED IN WSA-02 PART 3 SECTION 23.
- SURFACE RESTORATION AND PAVEMENT RESTORATION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF CENTRAL COAST COUNCIL'S 'CIVIL WORKS CONSTRUCTION SPECIFICATION'. PAVEMENT RESTORATION IN EXISTING ROAD PAVEMENTS SHALL BE IN ACCORDANCE WITH SECTION 4.9 OF CENTRAL COAST COUNCIL'S 'CIVIL CONSTRUCTION SPECIFICATION'.
- CLARIFICATION OF CONSTRUCTION REQUIREMENTS SHOULD BE OBTAINED FROM COUNCIL'S PRINCIPAL DEVELOPMENT CONSTRUCTION ENGINEER WHERE REQUIREMENTS ARE NOT CLEAR ON THE APPROVED DESIGN DRAWINGS, THESE NOTES AND/OR THE SYDNEY WATER VERSION OF WSA-02.
- THE CONTRACTOR IS TO SUBMIT TO COUNCIL'S PRINCIPAL DEVELOPMENT CONSTRUCTION ENGINEER DETAILS OF MATERIALS/PRODUCTS PROPOSED TO BE USED IN THE CONSTRUCTION OF SEWER GRAVITY MAINS AND ASSOCIATED STRUCTURES FOR COUNCIL'S ACCEPTANCE PRIOR TO ANY WORKS ON SITE. THESE DETAILS SHALL INCLUDE AS A MINIMUM:
 - PIPES SUPPLIER, TYPE AND CLASS.
 - EMBEDMENT AND BACKFILL MATERIAL.
 - MAINTENANCE STRUCTURE COMPONENTS.
- WORK AS EXECUTED (WAE) DRAWINGS SHALL BE PREPARED USING THE COUNCIL APPROVED DESIGN DRAWINGS AS A BASE. IN ADDITION TO PROVIDING WAE LEVEL INFORMATION, LOCATION AND JUNCTION INFORMATION SHALL BE PROVIDED. REFER TO CENTRAL COAST COUNCIL'S DEVELOPMENT ENGINEERING SUPPLEMENT TO THE SYDNEY WATER EDITION OF THE "SEWERAGE CODE OF AUSTRALIA" FOR REQUIREMENTS.
- EVIDENCE OF THE CONTRACTOR'S EXPERIENCE AND REFERENCES FROM OTHER WATER AGENCY TYPE ORGANISATIONS MAY BE REQUIRED TO BE PROVIDED TO CENTRAL COAST COUNCIL PRIOR TO A CONTRACTOR BEING ACCEPTED BY CENTRAL COAST COUNCIL COUNCIL AS BEING SUITABLE TO CONSTRUCT THE REQUIRED SEWERAGE WORKS. ALL CONTRACTORS SHALL CARRY APPROPRIATE LEVELS OF PUBLIC LIABILITY INSURANCE AND ADDRESS THE REQUIREMENTS OF PART 1 AND PART 2 AND ANY OTHER PART OF CENTRAL COAST COUNCIL'S "CIVIL CONSTRUCTION SPECIFICATION" THAT IS APPLICABLE TO THE REQUIRED CONSTRUCTION."
- CONNECTION OF NEW GRAVITY SEWER MAINS TO EXISTING COUNCIL MAINS SHALL BE CARRIED OUT BY COUNCIL UNLESS SPECIFIC APPROVAL IS GIVEN FOR THE DEVELOPER'S CONTRACTOR TO CARRY OUT THIS WORK. AN APPLICATION FOR CONNECTION IS TO BE MADE BY DEVELOPER OR THEIR CONTRACTOR. COUNCIL WILL PROVIDE A QUOTATION/ESTIMATE FOR THE CONNECTION(S). THE QUOTED/ESTIMATED FEE IS TO BE PAID PRIOR TO THE CONNECTION TAKING PLACE. APPLICATIONS ARE TO BE MADE WELL IN ADVANCE OF THIS WORK BEING REQUIRED.

REV	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
1	23.07.2025	UPDATED SEWER DESIGN BASED ON SERVICE LOCATION	B.U. J.J.	B.U. T.W.	B.U. T.W.	C.Sh. C.Sh	0 10 20 A1 / A3 1:500 / 1:1000
2	22.11.2025	UPDATED SEWER					

DESIGN FILE S:\239418\239418(1)\DESIGN\12D\SPORTING FIELDS

ALL DIMENSIONS ARE IN METRES. DO NOT SCALE

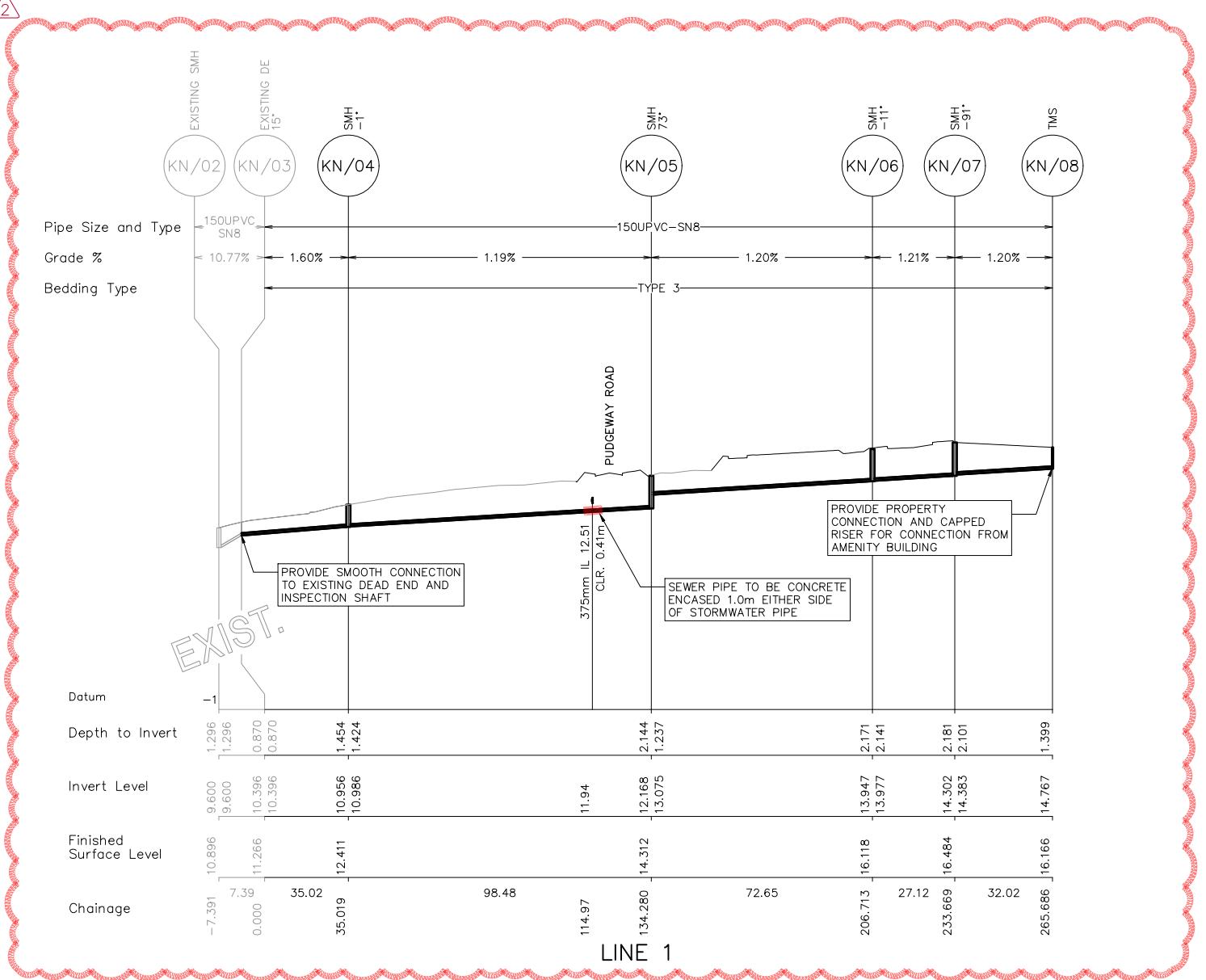


Central Coast
P.O. Box 3717,
Tuggerah N.S.W. 2259
Phone: (02) 4305 4300
Fax: (02) 4305 4399
email: coast@adwjohnson.com.au
www.adwjohnson.com.au
ABN 62 129 445 398

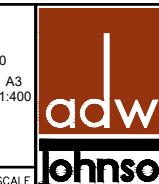


PROPERTY DESCRIPTION
PROPOSED SPORTING FIELDS & ACCESS ROAD
SCENIC DRIVE, COLONGRA
LOT 500 D.P.755266
CPA/2963

PROJECT
COLONGRA SPORTING FIELDS DESIGN
PLAN TITLE
SEWER PLAN
SURVEYED
TREHY INGOLD NEATE
DATUM
A.H.D.
PROJECT No.
239405
DISCIPLINE
ENG
NUMBER
501
REV.
2



SEWER SETOUT					
PIT NAME	PIT TYPE	EASTING	NORTHING	SURFACE LEVEL	INVERT LEVEL
		m	m	m	m
KN/02	EXISTING SMH	364071.750	6322414.808	10.9	9.6 1.3
KN/03	EXISTING DE	364064.599	6322416.677	11.27	10.4 0.67
KN/04	SMH	364034.227	6322434.109	12.41	10.96 1.45
KN/05	SMH	363948.187	6322482.016	14.31	12.17 2.14
KN/06	SMH	363964.020	6322552.920	16.06	13.95 2.11
KN/07	SMH	363963.991	6322580.038	16.48	14.3 2.18
KN/08	TMS	363993.975	6322580.155	16.17	14.77 1.4



Central Coast
P.O. Box 3717,
Tuggerah N.S.W. 2259
Phone: (02) 4305 4300
Fax: (02) 4305 4399
email: coast@adwjohson.com.au
www.adwjohson.com.au
ABN 62 129 445 398



PROPERTY DESCRIPTION
PROPOSED SPORTING FIELDS & ACCESS ROAD
SCENIC DRIVE, COLONGRA
LOT 500 D.P.755266
CPA/2963

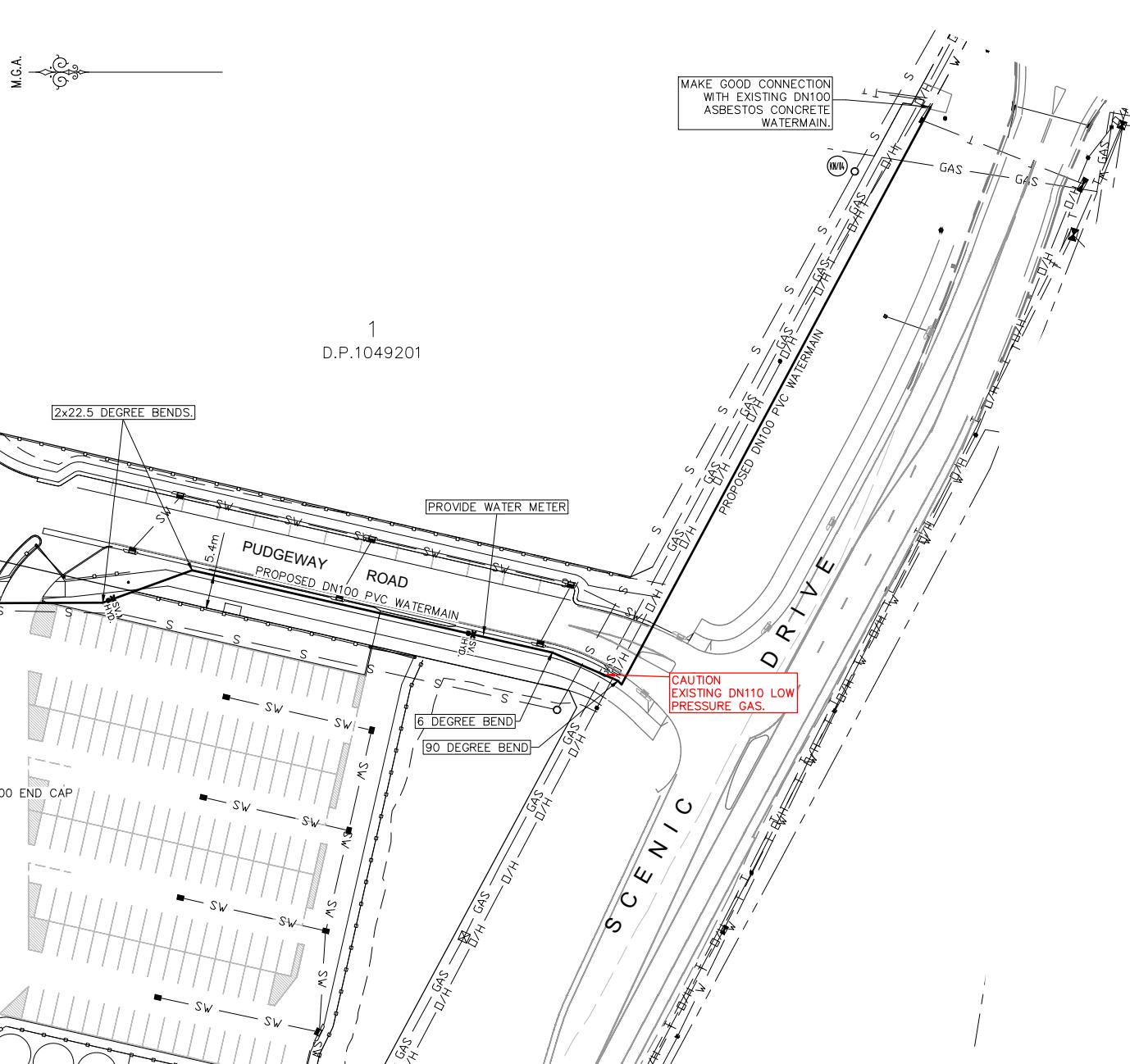
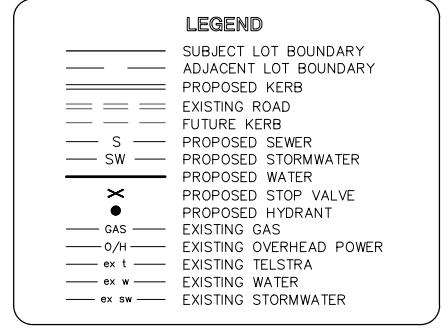
PROJECT
COLONGRA SPORTING FIELDS DESIGN
PLAN TITLE
SEWER LINE 1
LONGITUDINAL SECTION
& SETOUT DETAILS

SURVEYED	DATUM	PROJECT No.	DISCIPLINE	NUMBER	REV.
TREHY INGOLD NEATE	A.H.D.	239405	-	ENG	-
		511			2

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
1	23.07.2025	UPDATED SEWER DESIGN BASED ON SERVICE LOCATION	B.U. J.J.	B.U. T.W.	B.U. T.W.	C.Sh C.Sh	0 10 20 30 40 A1 / A3 0 5 10 A1 / A3 1:1000 / 1:2000 1:200 / 1:400
2 22.11.2025 UPDATED SEWER							

DESIGN FILE S:\239418\239418(1)\DESIGN\12D\SPORTING FIELDS

ALL DIMENSIONS ARE IN METRES. DO NOT SCALE

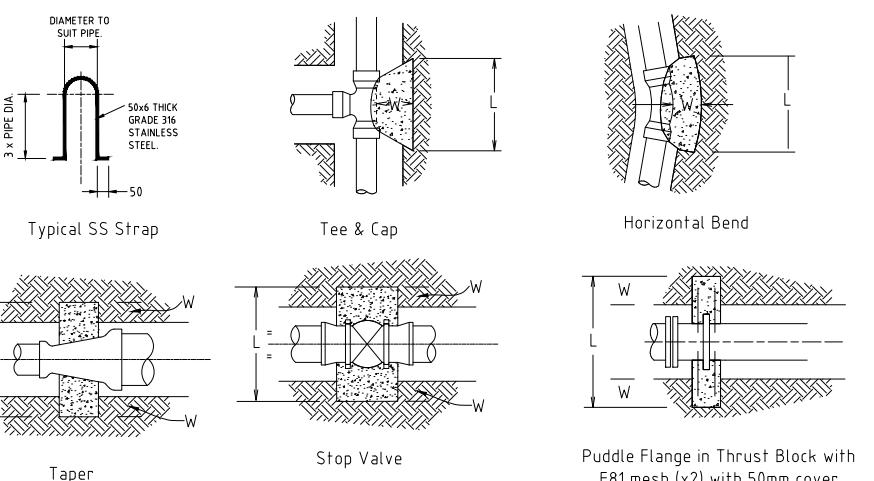


SERVICE PRESSURE (ALL PROPERTIES) = STANDARD (20m-60m)								
TYPE	FITTING	Soil AHBP (Kpa)	Design STP (Kpa)	Thrust	TA (m ³)	Length (L)	Height (H)	Width (W)
1	DN100 x 6° BEND	100	1000	0.81	0.007	0.20	0.20	0.30
2	DN100 x 11.25° BEND	100	1000	1.51	0.013	0.20	0.25	0.30
3	DN100 x 22.5° BEND	100	1000	3.01	0.025	0.25	0.35	0.30
4	DN100 x 45° BEND	100	1000	5.91	0.049	0.30	0.50	0.30
5	DN100 x DN100 TEE	100	1000	10.92	0.091	0.40	0.80	0.30



WATER RETICULATION AND WATER SERVICES CONSTRUCTION NOTES: -

- CONSTRUCTION OF WATER RETICULATION MAINS AND WATER SERVICES SHALL BE IN ACCORDANCE WITH THE SYDNEY WATER EDITION OF THE "WATER SUPPLY CODE OF AUSTRALIA" WSA03-2002 WITH CENTRAL COAST COUNCIL SUPPLEMENTS. THESE NOTES SPECIFY CENTRAL COAST COUNCIL'S PARTICULAR REQUIREMENTS IN THESE DOCUMENTS IN RELATION TO THE CONSTRUCTION OF WATER RETICULATION MAINS AND RESIDENTIAL PROPERTY SERVICES.
- CONNECTION OF NEW WATER RETICULATION MAINS TO EXISTING COUNCIL RETICULATION MAINS SHALL BE CARRIED OUT BY COUNCIL UNLESS SPECIAL APPROVAL IS GIVEN FOR THE DEVELOPER'S CONTRACTOR TO CARRY OUT THIS WORK. AN APPLICATION FOR CONNECTION IS TO BE MADE BY DEVELOPER OR THEIR CONTRACTOR. COUNCIL WILL PROVIDE A QUOTATION/ESTIMATE FOR THE CONNECTION(S). THE QUOTED ESTIMATED FEE IS TO BE PAID PRIOR TO THE CONNECTION TAKING PLACE. APPLICATIONS ARE TO BE MADE WELL IN ADVANCE OF THIS WORK BEING REQUIRED.
- WATER SERVICES ON NEW MAINS ARE TO BE INSTALLED BY THE DEVELOPER'S CONTRACTOR. A SINGLE WATER SERVICE, EACH TAPPED FROM THE MAIN, GENERALLY WHERE SHOWN ON THE DESIGN DRAWINGS IS TO BE PROVIDED FOR EACH PROPOSED LOT. WITH REFERENCE TO STANDARD DRAWINGS WAT-1106 AND WAT-1109 THE FOLLOWING SHALL APPLY:
 - THE METER RISER IS TO BE LOCATED 300MM INSIDE THE FRONT BOUNDARY OF THE PROPOSED LOT AND AT LEAST 400MM OFF THE SIDE BOUNDARY.
 - THE WATER SERVICE IS TO TERMINATE WITH A TYPE A COPPER PIPE METER RISER WHICH PROTRUDES 250MM ABOVE THE GROUND.
 - C. WATER SERVICE SIZES FOR RESIDENTIAL LOTS SHALL BE DN20 WHERE LESS THAN 30M IN LENGTH AND DN25 WHERE BETWEEN 30M AND 74M IN LENGTH.
 - THE METER RISER SHALL TERMINATE WITH A NO. 13 90 DEGREE ELBOW CAPILLARY FITTING CAPPED WITH A BSP GALVANISED CAP WHICH FACES A LINE PARALLEL TO THE FRONT BOUNDARY. IN THE CASE OF A DN25 SERVICE THE ELBOW FITTING SHALL BE 25MM X 20MM.
 - THE METER RISER SHALL BE SUPPORTED BY A MINIMUM 75MMX50MM HARDWOOD STAKE, PAINTED WHITE AND DRIVEN FIRMLY INTO THE GROUND. THE TOP OF THE STAKE SHALL MATCH THE TOP OF THE RISER. THE RISER SHALL BE FIXED TO THE STAKE WITH A PIPE SADDLE.
- IN REFERENCE TO STANDARD DRAWING WAT-1108-V TAPPING BANDS SHALL GENERALLY BE A NARROW CLAMP TYPE WITH A STANDARD MAIN TAP AT THE TOP OF THE MAIN. BALL VALVES ARE NOT TO BE USED AT THE TAPPING BAND. DETAILS OF PROPOSED TAPPING BANDS SHALL BE SUBMITTED TO COUNCIL FOR ACCEPTANCE.
- TRENCH DETAILS FOR INSTALLATION OF NEW WATER MAINS IN OTHER THAN POOR GROUND CONDITIONS OR UNDER EXISTING ROAD CARRIAGeways SHALL BE IN ACCORDANCE WITH STANDARD DRAWINGS WAT-1250-S AND WAT-1251-S. DETAILS OF OTHER INSTALLATION TYPES SHOULD BE SHOWN ON THE DRAWINGS. IF NOT SHOWN DETAILS TO BE PROVIDED BY DESIGN CONSULTANT AND SUBMITTED TO COUNCIL FOR APPROVAL.
- THRUST BLOCKS SHALL BE PROVIDED AT ALL TEES, BENDS, AND TAPERS GENERALLY IN ACCORDANCE WITH STANDARD DRAWING WAT-1205 FOR PIPE SIZES UP TO DN 375. THRUST BLOCKS DIMENSIONS IN STABLE GROUND ARE TO SATISFY THE REQUIREMENTS FOR STIFF CLAY/MEDIUM DENSE CLEAN SAND UNLESS IN SOUND ROCK IN WHICH CASE SIZING APPROPRIATE TO SOUND ROCK MAY BE USED. DETAILS FOR THRUST BLOCKS SHALL BE PROVIDED BY THE DESIGN CONSULTANT IN GROUND CONDITIONS THAT DO NOT PROVIDE THE BEARING EQUIVALENT TO STIFF CLAY/MEDIUM DENSE CLEAN SAND.
- THRUST AND ANCHOR BLOCKS FOR VALVES AND VERTICAL BEND SHALL BE PROVIDED IN ACCORDANCE WITH STANDARD DRAWING WAT-1207 FOR PIPE SIZES UP TO DN 375. DETAILS FOR THRUST BLOCKS SHALL BE PROVIDED BY THE DESIGN CONSULTANT WHERE GROUND CONDITIONS DO NOT PROVIDE THE BEARING EQUIVALENT TO STIFF CLAY/MEDIUM DENSE CLEAN SAND.
- HYDRANTS AND VALVES SHALL BE LOCATED WHERE SHOWN ON THE DRAWINGS AND SHALL GENERALLY BE INSTALLED IN ACCORDANCE WITH STANDARD DRAWINGS WAT-1301-V, WAT-1302-V, WAT-1303-V AND WAT-1304-V. STOP VALVES SHALL BE ANTI-CLOCKWISE CLOSING. HYDRANTS SHALL BE SPRING HYDRANTS.
- DETAILS OF ALL MATERIALS PROPOSED TO BE USED CONSTRUCTION OF WATER RETICULATION MAINS AND SERVICES SHALL BE SUBMITTED TO COUNCIL'S PRINCIPAL DEVELOPMENT CONSTRUCTION ENGINEER FOR ACCEPTANCE PRIOR TO THE COMMENCEMENT OF ANY WORKS ON SITE. THESE DETAILS SHALL INCLUDE:
 - PIPE TYPE, BRAND AND CERTIFICATE CONFIRMING SUITABILITY FOR MINE SUBSIDENCE GROUND STRAINS IF APPLICABLE.
 - TAPPING BANDS.
 - EMBEDMENT AND TRENCH FILL MATERIAL.
 - HYDRANT AND VALVE, TYPES, CLASS, BRAND, SPECIFICATIONS.
- SURFACE RESTORATION AND PAVEMENT RESTORATION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF CENTRAL COAST COUNCIL'S "CIVIL WORKS CONSTRUCTION SPECIFICATION". PAVEMENT RESTORATION IN EXISTING ROAD PAVEMENTS SHALL BE IN ACCORDANCE WITH SECTION 4.9 OF CENTRAL COAST COUNCIL'S "CIVIL CONSTRUCTION SPECIFICATION".
- ACCEPTANCE TESTING OF WATER MAINS AND WATER SERVICES SHALL BE ARRANGED BY THE CONTRACTOR. ACCEPTANCE TESTING SHALL BE IN ACCORDANCE WITH WSA-02 PART 3 SECTION 22 AND INCLUDE:
 - HYDROSTATIC PRESSURE TESTING – TEST PRESSURE TO BE 1000KPA UNLESS SHOWN OTHERWISE ON THE DESIGN DRAWINGS.
 - BACTERIOLOGICAL TEST – ONLY REQUIRED WHEN SPECIFICALLY REQUESTED BY COUNCIL IN THE CASE THAT COUNCIL HAS REQUESTED THE MAIN TO BE DISINFECTED.
 - WATER SERVICES ARE TO BE PURGED, CAPPED AND THE MAIN COCKS LEFT OPEN FOR HYDROSTATIC TESTING.
- WORK AS EXECUTED (WAE) DRAWINGS SHALL BE PREPARED USING THE COUNCIL APPROVED DESIGN DRAWINGS AS A BASE. REFER TO CENTRAL COAST COUNCIL'S DEVELOPMENT ENGINEERING SUPPLEMENT TO THE SYDNEY WATER EDITION OF THE "WATER SUPPLY CODE OF AUSTRALIA" FOR REQUIREMENTS.
- EVIDENCE OF THE CONTRACTOR'S EXPERIENCE AND REFERENCES FROM OTHER WATER AGENCY TYPE ORGANISATIONS MAY BE REQUIRED TO BE PROVIDED TO CENTRAL COAST COUNCIL PRIOR TO A CONTRACTOR BEING ACCEPTED BY CENTRAL COAST COUNCIL AS BEING SUITABLE TO CONSTRUCT THE REQUIRED SEWERAGE WORKS. ALL CONTRACTORS SHALL CARRY APPROPRIATE LEVELS OF PUBLIC LIABILITY INSURANCE AND ADDRESS THE REQUIREMENTS OF PART 1 AND PART 2 AND ANY OTHER PART OF CENTRAL COAST COUNCIL'S "CIVIL CONSTRUCTION SPECIFICATION" THAT IS APPLICABLE TO THE REQUIRED CONSTRUCTION.
- CLARIFICATION OF CONSTRUCTION REQUIREMENTS SHOULD BE OBTAINED FROM COUNCIL'S PRINCIPAL DEVELOPMENT CONSTRUCTION ENGINEER WHERE REQUIREMENTS ARE NOT CLEAR ON THE APPROVED DESIGN DRAWINGS. THESE NOTES AND/OR THE SYDNEY WATER VERSION OF WSA-02.
- BULKHEADS ADJACENT TO KERB AND GUTTER AND AT THE SHOULDERS OF SEALED ROADS AS SHOWN ON STANDARD DRAWING WAT-1209 MAY BE REPLACED WITH TRENCH STOPS WHERE THE PIPE GRADE IS LESS THAN 15 PERCENT.
- PIPES FOR NEW WATER RETICULATION MAINS FOR DEVELOPMENTS SHALL BE PVC SERIES 2 RUBBER RING JOINTED MINIMUM PN16 UNLESS OTHERWISE SHOWN ON THE DRAWINGS. PIPE FITTINGS ARE TO BE DUCTILE IRON UNLESS SHOWN OTHERWISE ON THE DESIGN DRAWINGS. PIPES TO BE USED IN MINE SUBSIDENCE AREAS SHALL BE CERTIFIED BY THE PIPE SUPPLIER TO BE SUITABLE FOR THE PREDICTED GROUND STRAINS AS ADVISED BY THE MINE SUBSIDENCE BOARD.
- INSTALL MAKER PLATES AND POSTS FOR ALL VALVES AND HYDRANTS. REFER TO STANDARD DRAWING WAT-1300. MARKER POSTS TO BE TYPE 'A' POST EMBEDMENT TO BE 450MM INTO THE GROUND WITH A 10MM DIAMETER ANTI-TURN KEY, 300MM LONG APPROXIMATELY 100MM FROM THE LOWER END OF THE POST. POST MATERIAL TO BE SOLID PLASTER OR HARDWOOD GENERALLY 100MM X 50MM IN SECTION. POSTS TO BE WHITE IN COLOUR WITH LETTERING IN HOMEBOURG RED. LETTERING MAY BE MOULDED OR MACHINED INTO THE POST FACE. POSTS SHALL BE LOCATED 150MM OFF THE PROPERTY BOUNDARY. THE DISTANCE AND SIZE OF THE MAIN ARE TO BE CLEARLY STENCILLED ON THE POST IN 25MM HIGH TEXT USING BLUE EXTERIOR ENAMEL. KERB MARKING FOR STOP VALVES AND HYDRANTS ARE REQUIRED. REFLECTIVE PAVEMENT MARKERS ARE NOT REQUIRED.

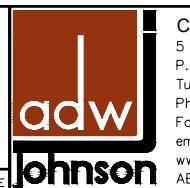


THRUST BLOCK DIAGRAMS

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
1	23.07.2025	UPDATED SEWER DESIGN BASED ON SERVICE LOCATION	B.U. J.J.	B.U. T.W.	B.U. T.W.	C.Sh. C.Sh	0 10 20 A1 / A3 1:500 / 1:1000
2	22.11.2025	UPDATED SEWER					

DESIGN FILE S:\239418\239418(1)\DESIGN\12D\SPORTING FIELDS

ALL DIMENSIONS ARE IN METRES. DO NOT SCALE



Central Coast
P.O. Box 3717,
Tuggerah N.S.W. 2259
Phone: (02) 4305 4300
Fax: (02) 4305 4399
email: coast@adwjohson.com.au
www.adwjohson.com.au
ABN 62 129 445 398



PROPERTY DESCRIPTION
PROPOSED SPORTING FIELDS & ACCESS ROAD
SCENIC DRIVE, COLONGRA
LOT 500 D.P.755266
CPA/2963

SURVEYED
TREHY INGOLD NEATE

PROJECT
COLONGRA SPORTING FIELDS DESIGN
PLAN TITLE
WATER PLAN

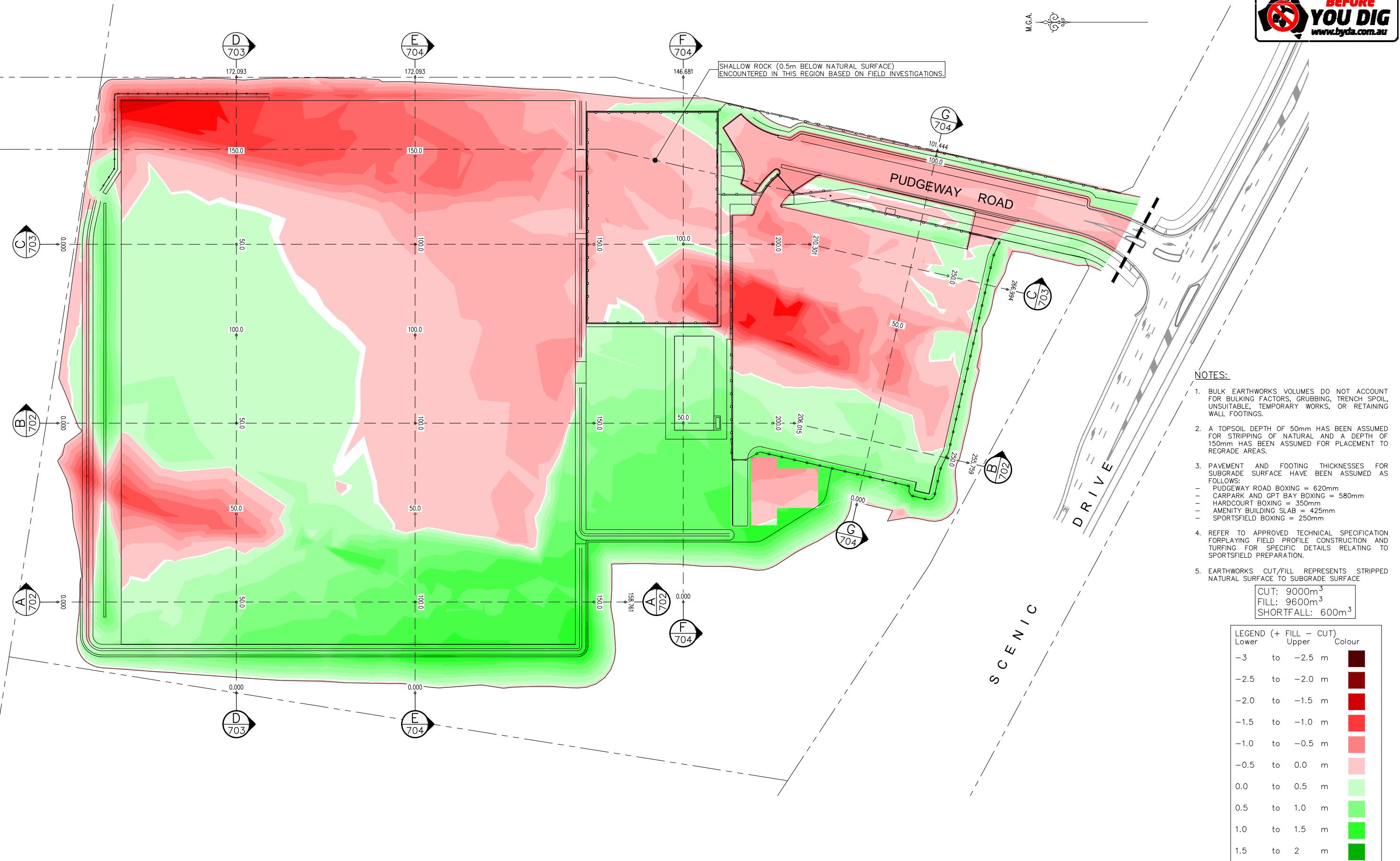
DATUM
A.H.D.

PROJECT No.
239405

DISCIPLINE
ENG

NUMBER
601

REV.
2



REV	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
1	23.07.2025	UPDATED SEWER DESIGN BASED ON SERVICE LOCATION	B.U. J.J.	B.U. T.W.	B.U. T.W.	C.Sh C.Sh	0 10 20 A1 / A3 1:500 / 1:1000
2	22.11.2025	UPDATED SEWER					

DESIGN FILE: S:\239418\239418(1)\DESIGN\12D\SPORTING FIELDS
ALL DIMENSIONS ARE IN METRES. DO NOT SCALE

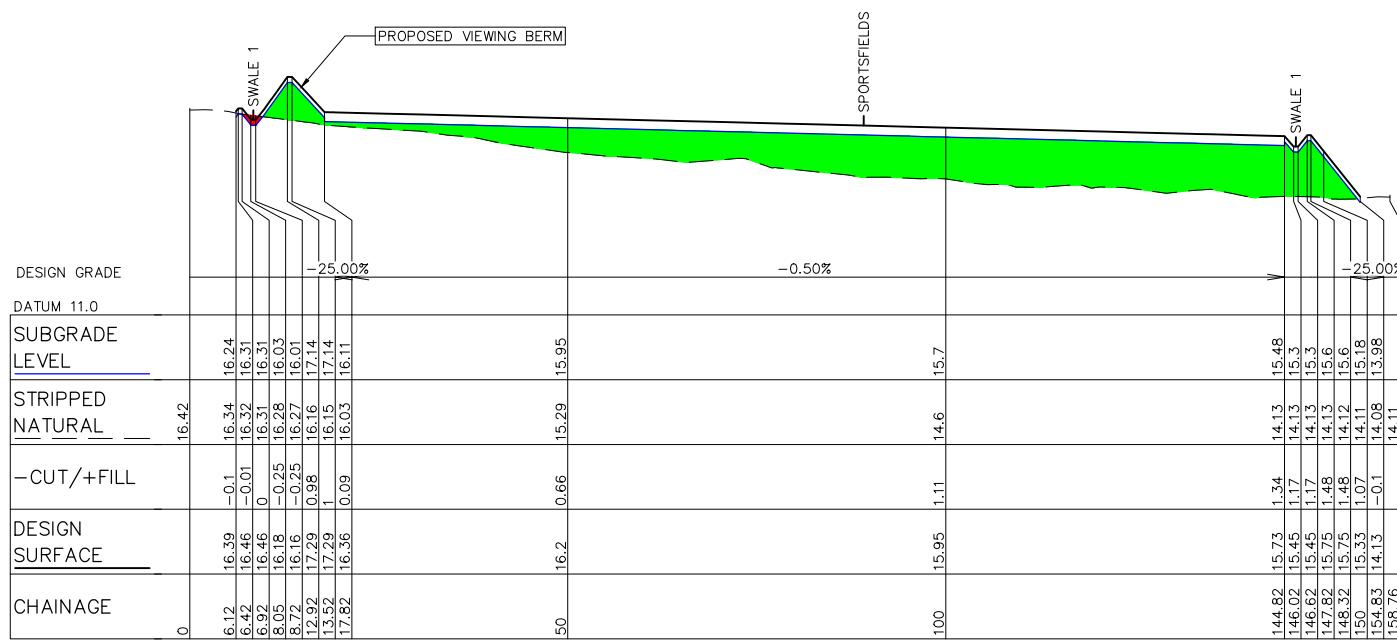
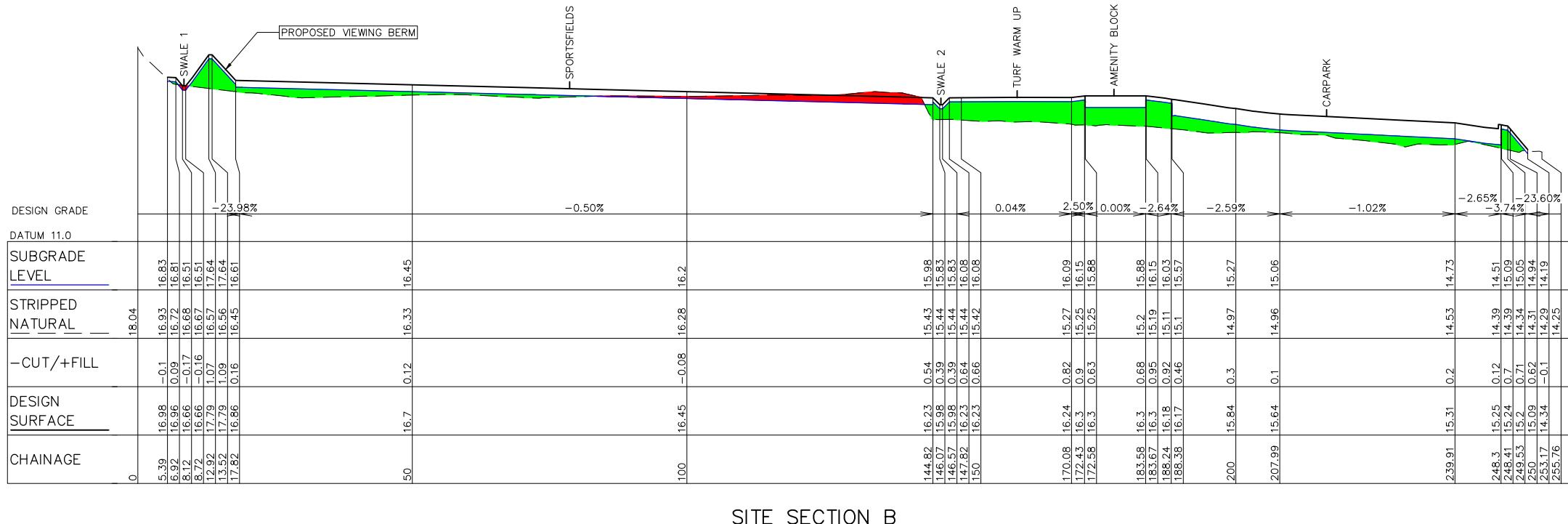


Central Coast
P.O. Box 3717,
Tuggerah N.S.W. 2259
Phone: (02) 4305 4300
Fax: (02) 4305 4399
email: coast@adwjohson.com.au
www.adwjohson.com.au
ABN 62 129 445 398

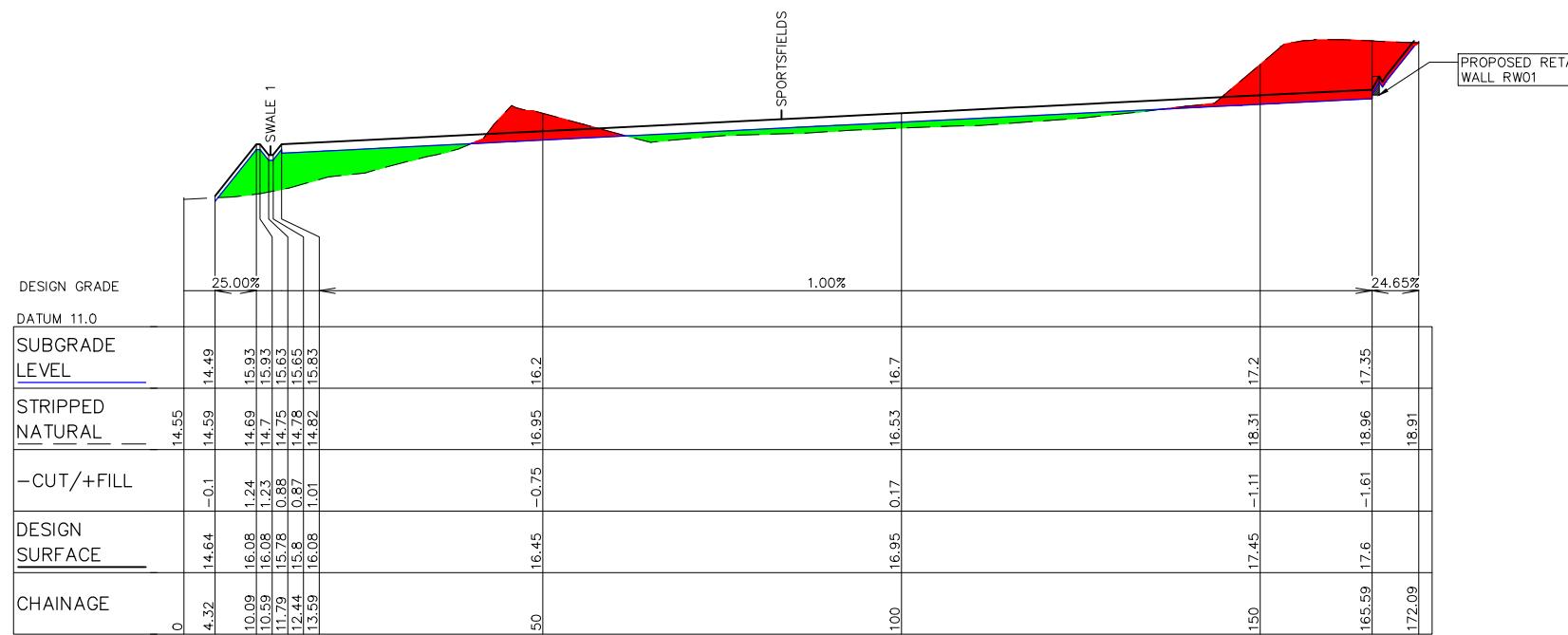


PROPERTY DESCRIPTION
PROPOSED SPORTING FIELDS & ACCESS ROAD
SCENIC DRIVE, COLONGRA
LOT 500 D.P.755266
CPA/2963

PROJECT
COLONGRA SPORTING FIELDS DESIGN
PLAN TITLE
SITE REGRADE PLAN
SURVEYED
TREHY INGOLD NEATE
DATUM
A.H.D.
PROJECT No.
239405
DISCIPLINE
ENG
NUMBER
701
REV.
2

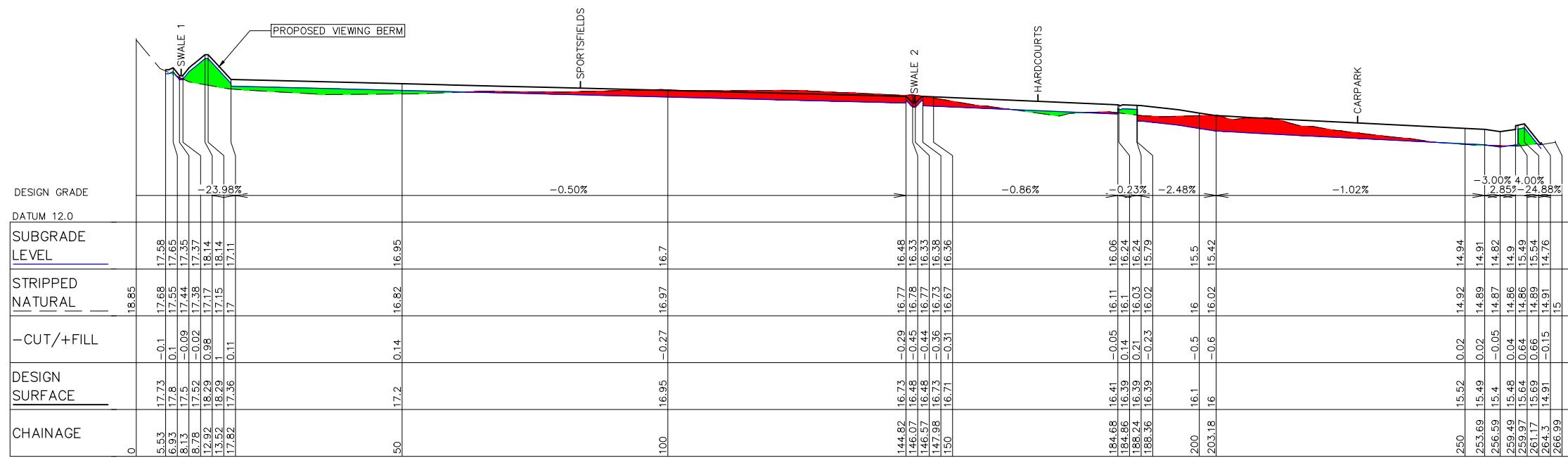


REV	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	
1	23.07.2025	UPDATED SEWER DESIGN BASED ON SERVICE LOCATION	B.U. J.J.	B.U. T.W.	B.U. T.W.	C.Sh C.Sh	0 10 20 30 40 1:1000 / 1:2000		Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohson.com.au www.adwjohson.com.au ABN 62 129 445 398	PROPOSED SPORTING FIELDS & ACCESS ROAD SCENIC DRIVE, COLONGRA LOT 500 D.P.755266 CPA/2963	COLONGRA SPORTING FIELDS DESIGN
2 22.11.2025 UPDATED SEWER											
PROJECT No. 239405 - DISCIPLINE ENG - NUMBER 702 REV. 2											
SURVEYED TREHY INGOLD NEATE DATUM A.H.D. PLAN TITLE SITE SECTIONS - SHEET 1											



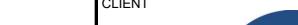
SITE SECTION

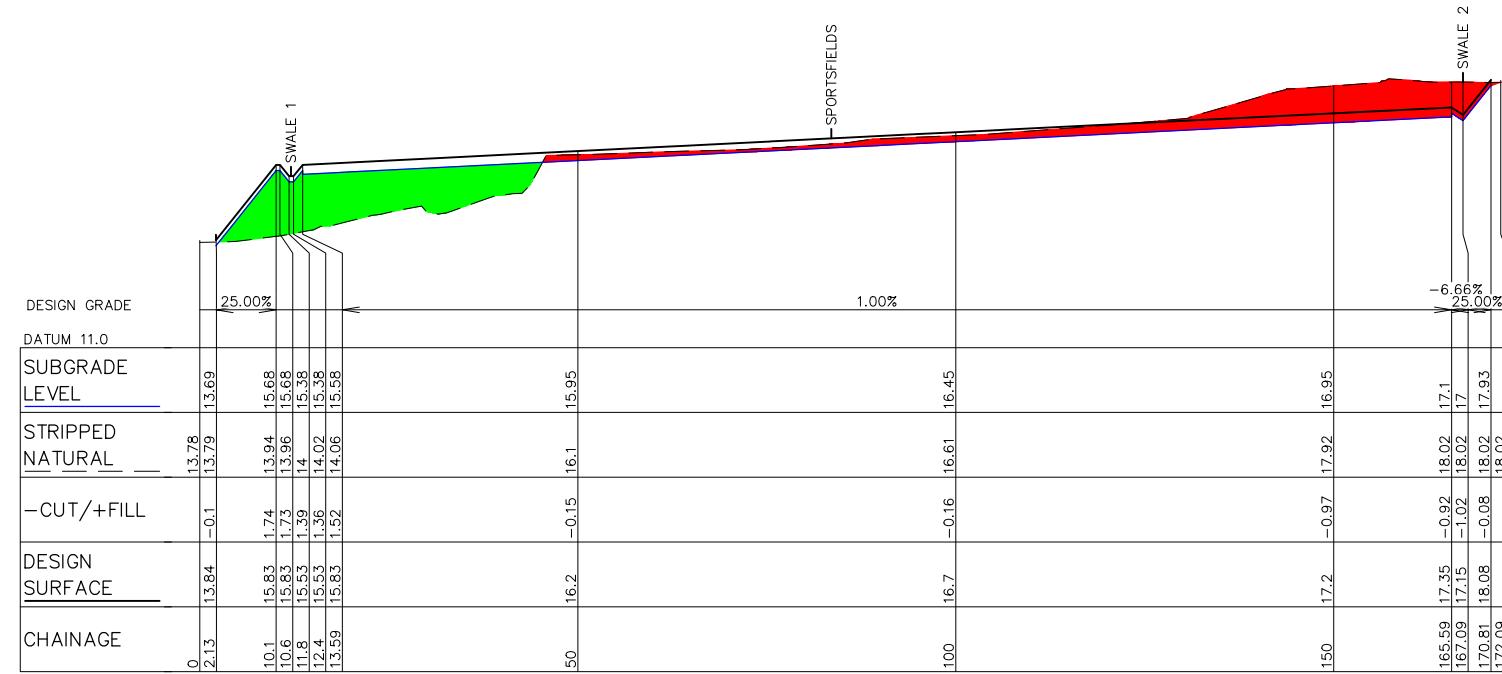
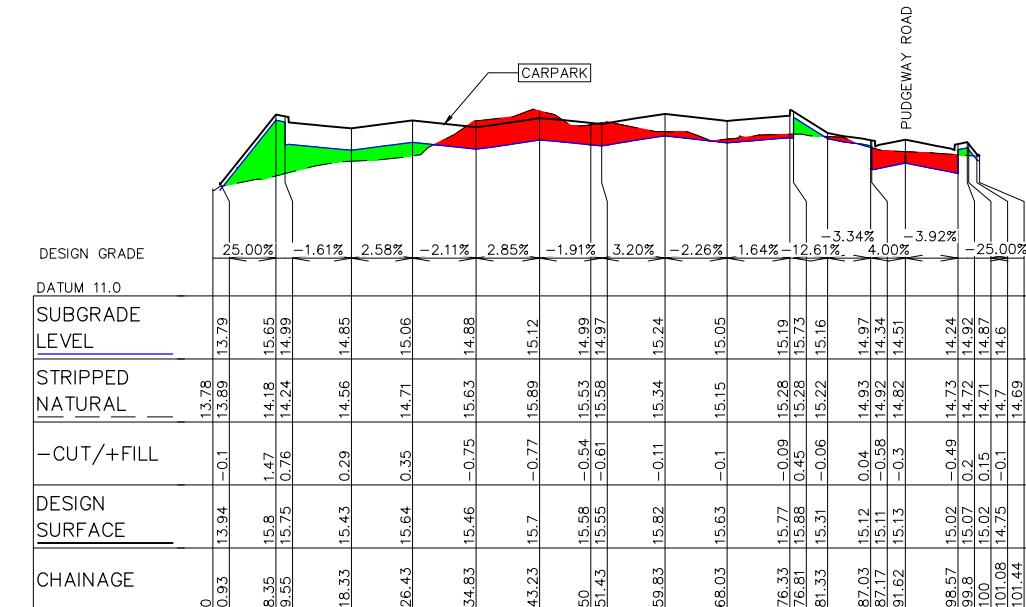
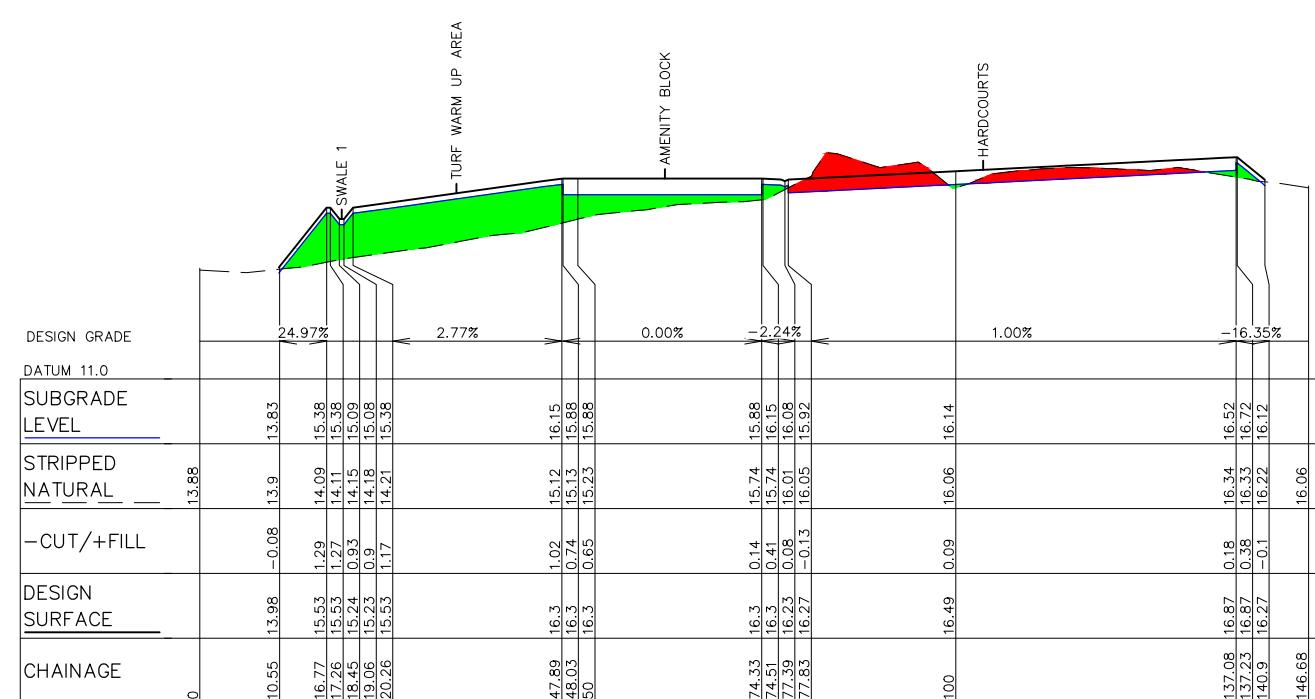
HORIZONTAL SCALE 1:50
VERTICAL SCALE 1:100



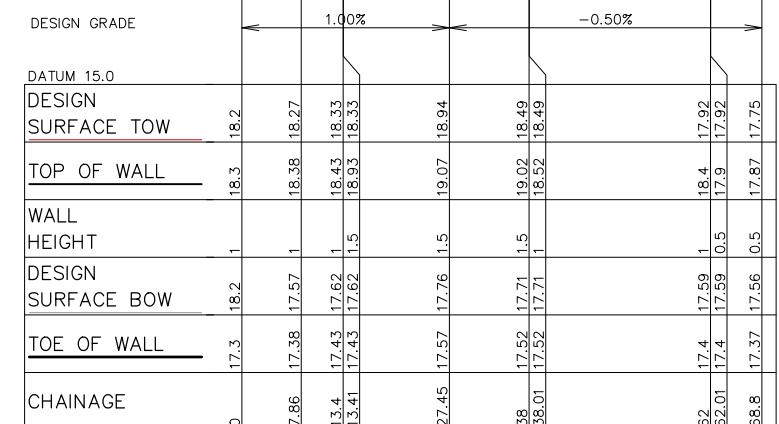
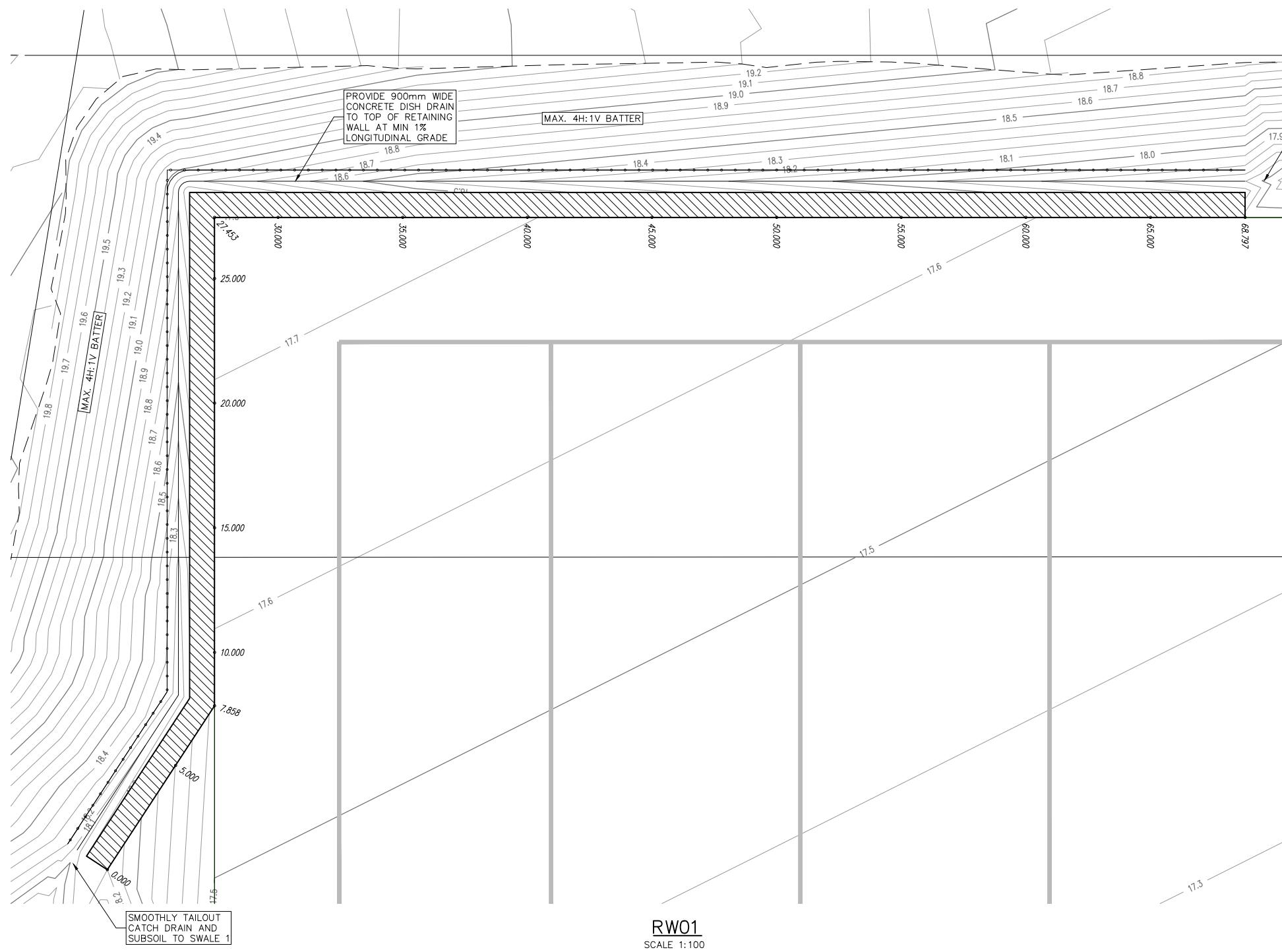
SITE SECTION

HORIZONTAL SCALE 1:50
VERTICAL SCALE 1:100

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	 	CLIENT		PROPERTY DESCRIPTION PROPOSED SPORTING FIELDS & ACCESS ROAD SCENIC DRIVE, COOLONGRA LOT 500 D.P.755266 CPA/2963	PROJECT	
1	23.07.2025	UPDATED SEWER DESIGN BASED ON SERVICE LOCATION	B.U. J.J.	B.U. T.W.	B.U. T.W.	C.Sh C.Sh	0 10 20 30 40 A1 / A3 1:1000 / 1:2000				PLAN TITLE	COOLONGRA SPORTING FIELDS DESIGN	
2	22.11.2025	UPDATED SEWER					0 5 10 A1 / A3 1:200 / 1:400				SITE SECTIONS - SHEET 2		



REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	
1	23.07.2025	UPDATED SEWER DESIGN BASED ON SERVICE LOCATION	B.U. J.J.	B.U. T.W.	B.U. T.W.	C.Sh C.Sh	0 10 20 30 40 1:1000 / 1:2000	Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	CLIENT Central Coast Council	PROPOSED SPORTING FIELDS & ACCESS ROAD SCENIC DRIVE, COLONGRA LOT 500 D.P.755266 CPA/2963	PROJECT COLONGRA SPORTING FIELDS DESIGN	PLAN TITLE SITE SECTIONS - SHEET 3
2												
DESIGN FILE S:\239418\239418(1)\DESIGN\12D\SPORTING FIELDS												
ALL DIMENSIONS ARE IN METRES. DO NOT SCALE												
SURVEYED	TREHY INGOLD NEATE	DATUM	A.H.D.	PROJECT No.	DISCIPLINE	NUMBER	REV.					
				239405	-	ENG	-	704				



RW01 SETOUT TABLE							
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	DEP. SEG	DEP. LEN
S	0.000	363969.350	6322754.139	18.200	123°20'53.91"	LINE	7.858
DIS	7.858	363975.915	6322749.819	17.569	90°10'26.12"	LINE	19.595
DIS	27.453	363995.510	6322749.760	17.765	180°10'20.00"	LINE	41.344
E	68.797	363995.385	6322708.416	17.558	180°10'20.00"		

REV	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	
1	23.07.2025	UPDATED SEWER DESIGN BASED ON SERVICE LOCATION	B.U. J.J.	B.U. T.W.	B.U. T.W.	C.Sh C.Sh	0 0.2 0.4 0.6 0.8 1.0 0 1 2 3 4 0 5 10	20 A1 / A3 1:40 / 1:80 1:100 / 1:200 1:200 / 1:400	Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	PROPOSED SPORTING FIELDS & ACCESS ROAD SCENIC DRIVE, COLONGRA LOT 500 D.P.755266 CPA/2963	COLONGRA SPORTING FIELDS DESIGN
2											
UPDATED SEWER											
ALL DIMENSIONS ARE IN METRES.	DO NOT SCALE	adw johnson	SURVEYED		DATUM		PROJECT No.	DISCIPLINE	NUMBER	REV.	
DESIGN FILE: S:\239418\239418(1)\DESIGN\12D\SPORTING FIELDS			TREHY	INGOLD	NEATE	A.H.D.	239405	-	ENG	-	
711											
2											

GENERAL	
1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE CIVIL ENGINEERING PLANS, AND OTHER CONSULTANTS' DRAWINGS AND SPECIFICATIONS. ANY DISCREPANCY SHALL BE REFERRED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK. CONSTRUCTION FROM THESE DRAWINGS, AND THEIR ASSOCIATED CONSULTANTS' DRAWINGS IS NOT TO COMMENCE UNTIL APPROVED BY THE LOCAL AUTHORITIES.	
2. ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE RELEVANT AND CURRENT AUSTRALIAN STANDARDS.	
3. ALL DIMENSIONS SHOWN SHALL BE VERIFIED BY THE BUILDER ON SITE. ENGINEERS' DRAWINGS SHALL NOT BE SCALED FOR DIMENSIONS.	
4. DURING CONSTRUCTION STRUCTURES SHALL BE MAINTAINED IN A STABLE CONDITION AND NO PART SHALL BE OVERSTRESSED. TEMPORARY BRACING SHALL BE PROVIDED BY THE CONTRACTOR TO KEEP THE WORKS AND EXCAVATIONS STABLE AT ALL TIMES.	
5. UNLESS NOTED OTHERWISE ALL LEVELS ARE IN METRES AND ALL DIMENSIONS ARE IN MILLIMETRES.	
6. THE DRAWINGS SHALL NOT BE USED FOR SETOUT PURPOSES. CONTRACTOR IS TO REFER TO CURRENT CIVIL ENGINEERING PLANS FOR SETOUT INFORMATION.	
7. POINTS OF CONFLICT BETWEEN NEW CONSTRUCTION AND EXISTING UTILITY SERVICE MAINS SHALL BE IDENTIFIED, EXPOSED AND REPORTED TO THE PROJECT ENGINEER PRIOR TO CONSTRUCTION.	
8. ALL PITS TO BE ADEQUATELY STREAMLINED AND BENCHED.	
FOUNDATIONS	
1. FOOTINGS HAVE BEEN DESIGNED FOR AN ALLOWABLE BEARING CAPACITY OF 150 kPa. THE FOUNDATION MATERIAL SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER FOR THIS BEARING CAPACITY BEFORE PLACING MEMBRANE, REINFORCEMENT OR CONCRETE.	
2. REFER TO GEOTECHNICAL INVESTIGATION REPORT BY DOUGLAS PARTNERS REF: 75989.03.R.001 FEBRUARY 2016.	
3. FOOTINGS SHALL BE LOCATED CENTRALLY UNDER WALLS AND COLUMNS UNLESS NOTED OTHERWISE.	
4. DO NOT EXCEED A RISE OF 1 IN A RUN OF 2 FOR THE LINE OF SLOPE BETWEEN ADJACENT FOOTINGS OR EXCAVATIONS.	
5. FOOTINGS TO BE CONSTRUCTED AND BACKFILLED AS SOON AS POSSIBLE FOLLOWING EXCAVATION TO AVOID SOFTENING OR DRYING OUT BY EXPOSURE.	
6. ALL FOUNDATION MATERIAL TO BE COMPAKTED TO THE REQUIREMENTS OF THE GEOTECHNICAL REPORT AND TO AS1289 AND TESTED PRIOR TO INSTALLATION OF FOUNDATION.	
LOADING	
1. THE STRUCTURAL COMPONENTS DETAILED ON THESE DRAWINGS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE RELEVANT AUSTRALIAN STANDARDS: AS1170 AS4678	

FORMWORK	
1. THE DESIGN CERTIFICATE CONSTRUCTION AND PERFORMANCE OF THE FORMWORK AND FALSE WORK SHALL BE THE RESPONSIBILITY OF THE BUILDER, EXCEPT TO THE EXTENT THAT FORMWORK DESIGN IS SHOWN ON THE DRAWINGS.	
2. FORMWORK DESIGN, CONSTRUCTION TOLERANCES AND STRIPPING TIMES SHALL COMPLY WITH AS 3610 AND AS 3600 UNLESS OTHERWISE APPROVED BY THE ENGINEER.	
3. DURING CONSTRUCTION, SUPPORT PROPPING WILL BE REQUIRED WHERE LOADS FROM STACKED MATERIALS, FORMWORK AND OTHER SUPPORTED SLABS INDUCE LOADS IN A SLAB OR BEAM WHICH EXCEED THE DESIGN LOAD FOR STRENGTH OR SERVICEABILITY AT THAT AGE. ONCE THE NOMINATED 28 DAY STRENGTH HAS BEEN ATTAINED, THESE LOADS SHALL NOT EXCEED THE DESIGN SUPERIMPOSED LOADS SET OUT IN THE LOADING NOTES.	
4. THE FORMWORK SHALL NOT BE DESIGNED TO ACCOMMODATE MOVEMENTS ON RESTRAINT OR SUPPORT FROM THE PERMANENT STRUCTURE WITHOUT PRIOR APPROVAL FROM THE PROJECT DESIGN ENGINEER.	
5. CONCRETE FORMED SURFACES TO HAVE FINISHES IN ACCORDANCE WITH AS 3610.	
6. DO NOT PLACE PERMANENT LOADS, INCLUDING MASONRY WALL AND THE LIKE, ON THE CONCRETE STRUCTURE UNTIL AFTER FORMWORK AND PROPPING IS REMOVED.	
7. SPECIAL REQUIREMENTS FOR SEQUENCE OF CONCRETE PLACEMENT AND STRIPPING ARE AS FOLLOWS: DESIGN INFORMATION CONCERNING THE FOUNDATION FORMWORK SHALL BE DETERMINED FROM THE CONDITIONS EXISTING ON THE SITE AT THE TIME OF CONSTRUCTION. REFER ALSO TO THE GEOTECHNICAL REPORT WHERE AVAILABLE.	

STRUCTURAL DESIGN CERTIFICATION

ADW Johnson Pty Ltd

We hereby certify that the design shown on this drawing for the subject development is in accordance with normal sound engineering practices and has been carried out with reference to the appropriate Australian Standards. We are an appropriately qualified and competent company in this area and as such can certify that the subject structural elements will perform within their design intent.

Name:IWO ZYCHIEWICZ.....
 Signature:
 CPEng No:5234105.....

REV	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	Central Coast	CLIENT	PROPERTY DESCRIPTION	PROJECT	DISCIPLINE	NUMBER	REV.
1	23.07.2025	UPDATED SEWER DESIGN BASED ON SERVICE LOCATION	B.U. J.J.	B.U. T.W.	B.U. T.W.	C.Sh C.Sh				PROPOSED SPORTING FIELDS & ACCESS ROAD SCENIC DRIVE, COLONGRA LOT 500 D.P.755266 CPA/2963	COLONGRA SPORTING FIELDS DESIGN			
2	22.11.2025	UPDATED SEWER								PLAN TITLE	STRUCTURAL NOTES			
										SURVEYED	DATUM	PROJECT No.		
										TREHY INGOLD NEATE	A.H.D.	239405	-	ENG
													-	712
														2



Central Coast
P.O. Box 3717,
Tuggerah N.S.W. 2259
Phone: (02) 4305 4300
Fax: (02) 4305 4399
email: coast@adwjohson.com.au
www.adwjohson.com.au
ABN 62 129 445 398



PROPERTY DESCRIPTION
PROPOSED SPORTING FIELDS & ACCESS ROAD
SCENIC DRIVE, COLONGRA
LOT 500 D.P.755266
CPA/2963

PLAN TITLE
STRUCTURAL NOTES

SURVEYED
TREHY INGOLD NEATE

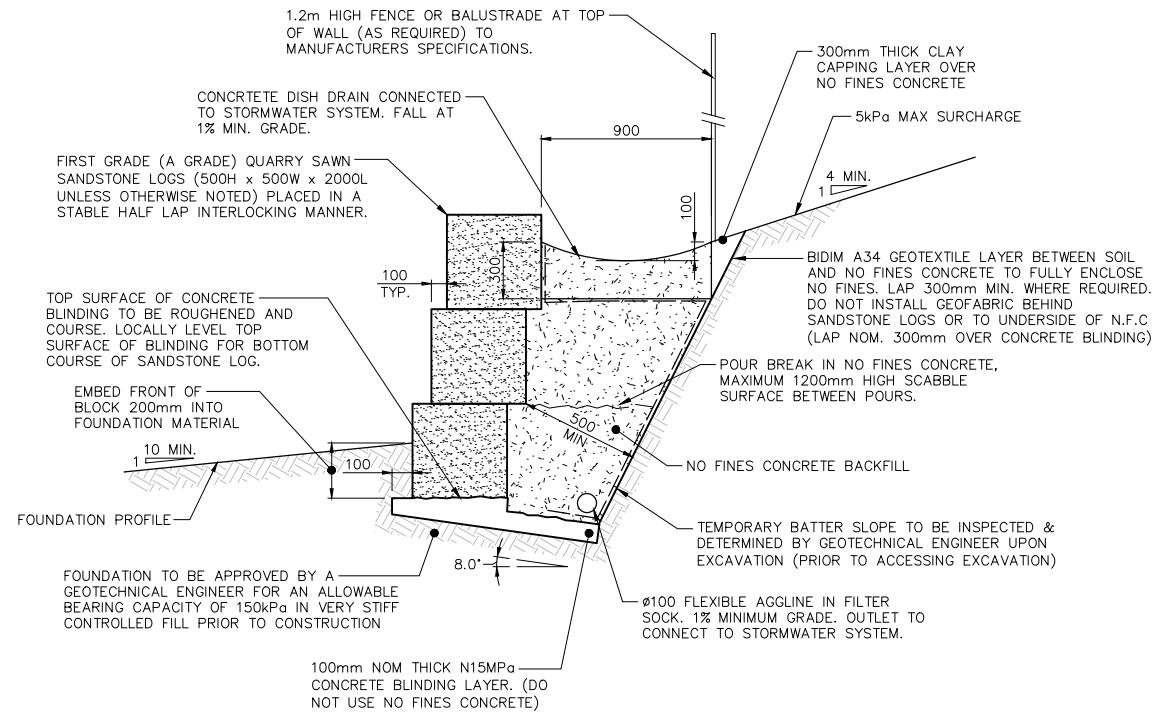
DATUM
A.H.D.

PROJECT No.
239405

DISCIPLINE
ENG

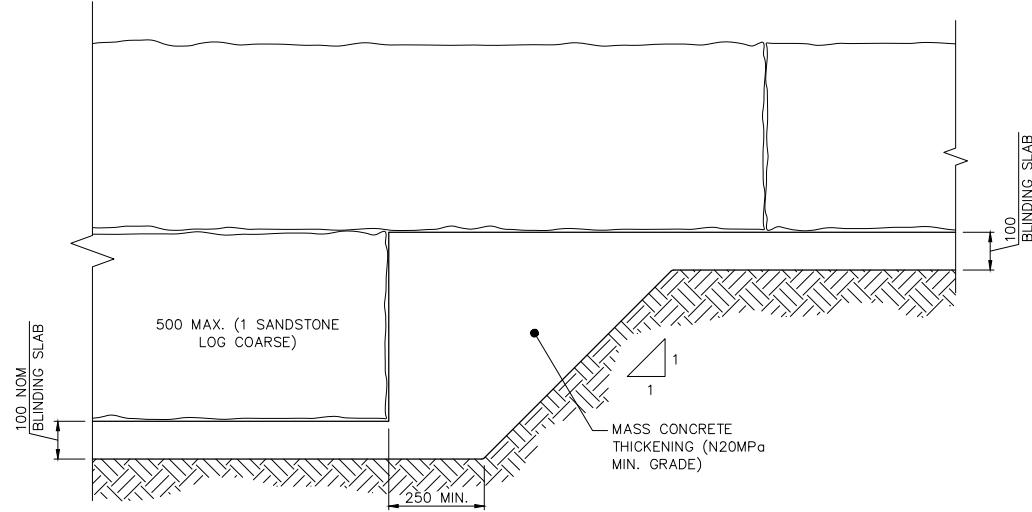
NUMBER
712

REV.
2



**SANDSTONE LOG RETAINING WALL –
CUT EARTHWORKS – NFC BACKFILL**

SCALE 1:20



**SANDSTONE LOG RETAINING WALL FOOTING STEP
DETAIL (MASS CONCRETE BLINDING)**

SCALE 1:10

NO FINES CONCRETE NOTES:

1. 'NO FINES' CONCRETE SHALL CONSIST OF CEMENT, WATER AND COARSE AGGREGATE. CEMENT SHALL COMPLY WITH THE DEFINITIONS FOR CEMENT AS PER AS3972:1991-'PORTLAND AND BLENDED CEMENTS'.
2. THE PARTICLE SIZE DISTRIBUTION OF THE AGGREGATE SHALL COMPLY WITH THE LIMITATIONS FOR THE NORMAL SINGLE SIZED 20mm AGGREGATE SPECIFIED IN AS2578.1.
3. 15 MPa 'NO FINES' CONCRETE WITH A 6:1 RATIO (AGGREGATE/CEMENT).
4. THE DENSITY OF THIS PRODUCT SHALL BE 1900–2100 kg/cu.m
5. THE VOID RATIO OF THE MIX IS EXPECTED TO BE BETWEEN 20% AND 30% AND MUST BE FREE DRAINING.
6. THE COMPRESSIVE STRENGTH, FOR DESIGN PURPOSES, SHOULD GENERALLY EXCEED 15MPa.
7. THIS PRODUCT HAS NO SLUMP AND EXERTS SIMILAR PRESSURES ON THE SOIL AND FORMWORK AS DOES LOOSELY PLACED AGGREGATE.

NOTE:

SANDSTONE BLOCKS ARE NOT TO BE STACKED HIGHER THAN 2 BLOCKS AT A TIME PRIOR TO FILLING BEHIND BLOCKS WITH NO FINES CONCRETE (NFC). THE FOLLOWING NEXT 2 BLOCKS MAY BE STACKED OVER AFTER THE NFC HAS REACHED SUFFICIENT STRENGTH.

NOTE:

UPON EXCAVATION OF THE STACKED ROCK RETAINING WALL BASE, A GEOTECHNICAL ENGINEER IS TO INSPECT THE FOUNDATION OF THE RETAINING WALL TO CONFIRM THE BEARING CAPACITY OF THE FOUNDATION AND TO VERIFY THE DESIGN PARAMETERS (AS INDICATED ON THIS DRAWING) WILL BE ACHIEVED. THE GEOTECHNICAL ENGINEER IS TO ALSO ADVISE IF A COMPACTED GRANULAR GRAVEL SUB-BASE OR ENGINEERED FILL PLATFORM IS TO BE IMPLEMENTED FOR THE FOUNDATION OF THE RETAINING WALL. IF VARYING SITE CONDITIONS FOR THE RETAINING WALLS FOUNDATION OR DESIGN PARAMETERS (SEE THIS DRAWING) ARE IDENTIFIED ON SITE BY THE GEOTECHNICAL ENGINEER, OR SUBSTANTIAL GROUNDWATER INFLOW IS IDENTIFIED BY THE CONTRACTOR AT THE WALL'S FOUNDATION DURING EXCAVATION, ADW JOHNSON ARE TO BE NOTIFIED IMMEDIATELY TO ASSESS ALTERNATIVE DESIGN OPTIONS.

DESIGN ASSUMPTIONS:

PARAMETER	ADOPTED VALUE	COMMENTS
WALL CLASSIFICATION	B	
SURCHARGE LIVE LOAD	5kPa	
BACKFILL SOIL DENSITY (y)	19kN/m ³	
BACKFILL INTERNAL FRICTION ANGLE (φ)	28°	
BACKFILL DRAINED COHESION (c')	2kPa	
FOUNDATION EFFECTIVE INTERNAL FRICTION ANGLE (φ')	26 DEGREES (STIFF CLAY) 28 DEGREES (CONTROLLED FILL)	
FOUNDATION EFFECTIVE COHESION (c')	2 kPa (STIFF CLAY/CONTROLLED FILL)	
FOUNDATION ALLOWABLE BEARING CAPACITY	150 kPa (CONTROLLED FILL)	
COEFFICIENT OF FRICTION (CONCRETE TO STIFF CLAY = 0.5) (CONCRETE TO WEATHERED ROCK=0.6)	0.5	FRICITION BETWEEN THE BASE OF THE WALL/FOUNDATION AND THE SOIL. ADAPTED AS $\tan\phi$.
COEFFICIENT OF FRICTION (SANDSTONE TO SANDSTONE)	0.6	FRICITION BETWEEN THE SANDSTONE LOGS.
ALLOWABLE BEARING CAPACITY OF SANDSTONE LOGS	700kPa	

NOTE:

GEOTECHNICAL REPORT BY DOUGLAS PARTNERS RECOMMENDS ALLOWABLE END BEARING CAPACITY OF 100kPa IN COMPACTED FILL. SOIL ALLOWABLE END BEARING CAPACITY OF 150kPa UNDER THE SANDSTONE WALL IS REQUIRED. ENSURE SUITABLE COMPACTION AND OBTAIN GEOTECHNICAL CONFIRMATION OF SOIL ACHIEVING REQUIRED CAPACITY.

STRUCTURAL DESIGN CERTIFICATION

ADW Johnson Pty Ltd

We hereby certify that the design shown on this drawing for the subject development is in accordance with normal sound engineering practices and has been carried out with reference to the appropriate Australian Standards. We are an appropriately qualified and competent company in this area and as such can certify that the subject structural elements will perform within their design intent.

Name:IWO ZYCHIEWICZ.....

Signature:

CPEng No:5234105.....

REV	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
1	23.07.2025	UPDATED SEWER DESIGN BASED ON SERVICE LOCATION	B.U. J.J.	B.U. T.W.	B.U. T.W.	C.Sh C.Sh	A1: 0 0.5 1.0m 1:10 0 0.25 0.5m A3: 1:20
2	22.11.2025	UPDATED SEWER					

DESIGN FILE S:\239418\239418(1)\DESIGN\12D\SPORTING FIELDS

ALL DIMENSIONS ARE IN METRES. DO NOT SCALE

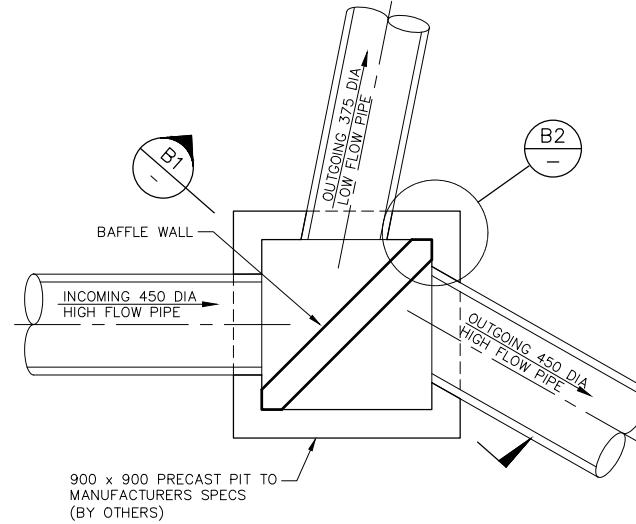


Central Coast
P.O. Box 3717,
Tuggerah N.S.W. 2259
Phone: (02) 4305 4300
Fax: (02) 4305 4399
email: coast@adwjohson.com.au
www.adwjohson.com.au
ABN 62 129 445 398



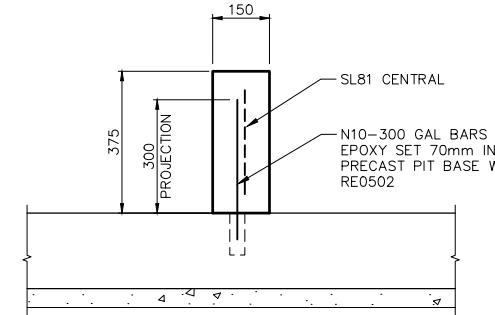
PROPERTY DESCRIPTION
PROPOSED SPORTING FIELDS & ACCESS ROAD
SCENIC DRIVE, COLONGRA
LOT 500 D.P.755266
CPA/2963

PROJECT **COLONGRA SPORTING FIELDS DESIGN**
PLAN TITLE **STRUCTURAL DETAILS**
SURVEYED **TREHY INGOLD NEATE** DATUM **A.H.D.** PROJECT No. **239405** DISCIPLINE **ENG** NUMBER **713** REV. **2**

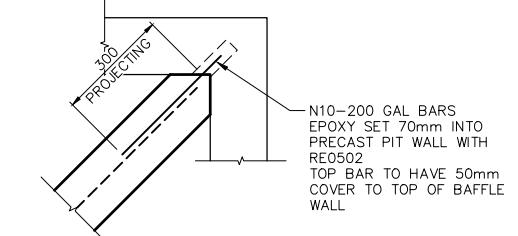


JUNCTION PIT 10/4 BAFFLE WALL DETAIL
PRECAST PIT OPTION

SCALE 1:20



SECTION B1
SCALE 1:10



DETAIL B2
SCALE 1:10

STRUCTURAL DESIGN CERTIFICATION

ADW Johnson Pty Ltd

We hereby certify that the design shown on this drawing for the subject development is in accordance with normal sound engineering practices and has been carried out with reference to the appropriate Australian Standards. We are an appropriately qualified and competent company in this area and as such can certify that the subject structural elements will perform within their design intent.

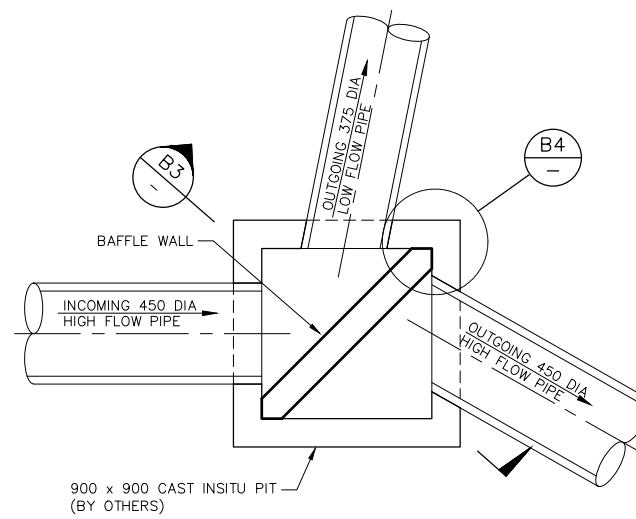
Name:IWO ZYCHIEWICZ.....

Signature:.....

CPEng No:5234105.....

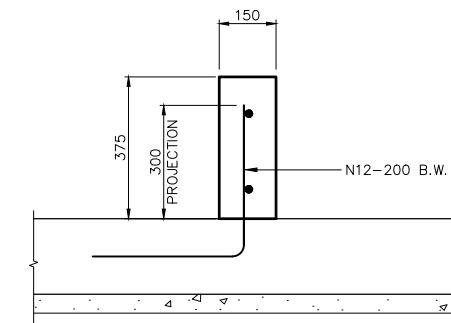
NOTE:

INSTALLATION OF REINFORCEMENT AND EPOXY RESIN TO BE STRICTLY IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS. ENSURE THAT PIT SHELL IS 100 MM CONCRETE AND IS NOT DRILLED THROUGH DURING INSTALLATION

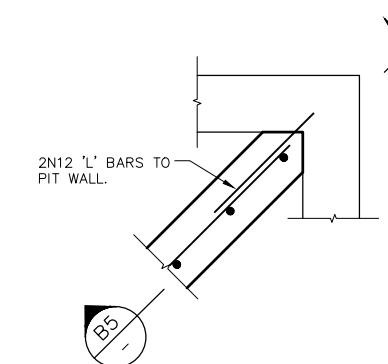


JUNCTION PIT 10/4 BAFFLE WALL DETAIL
CAST INSITU OPTION

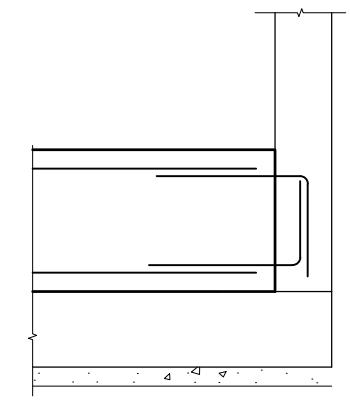
SCALE 1:20



SECTION B3
SCALE 1:10

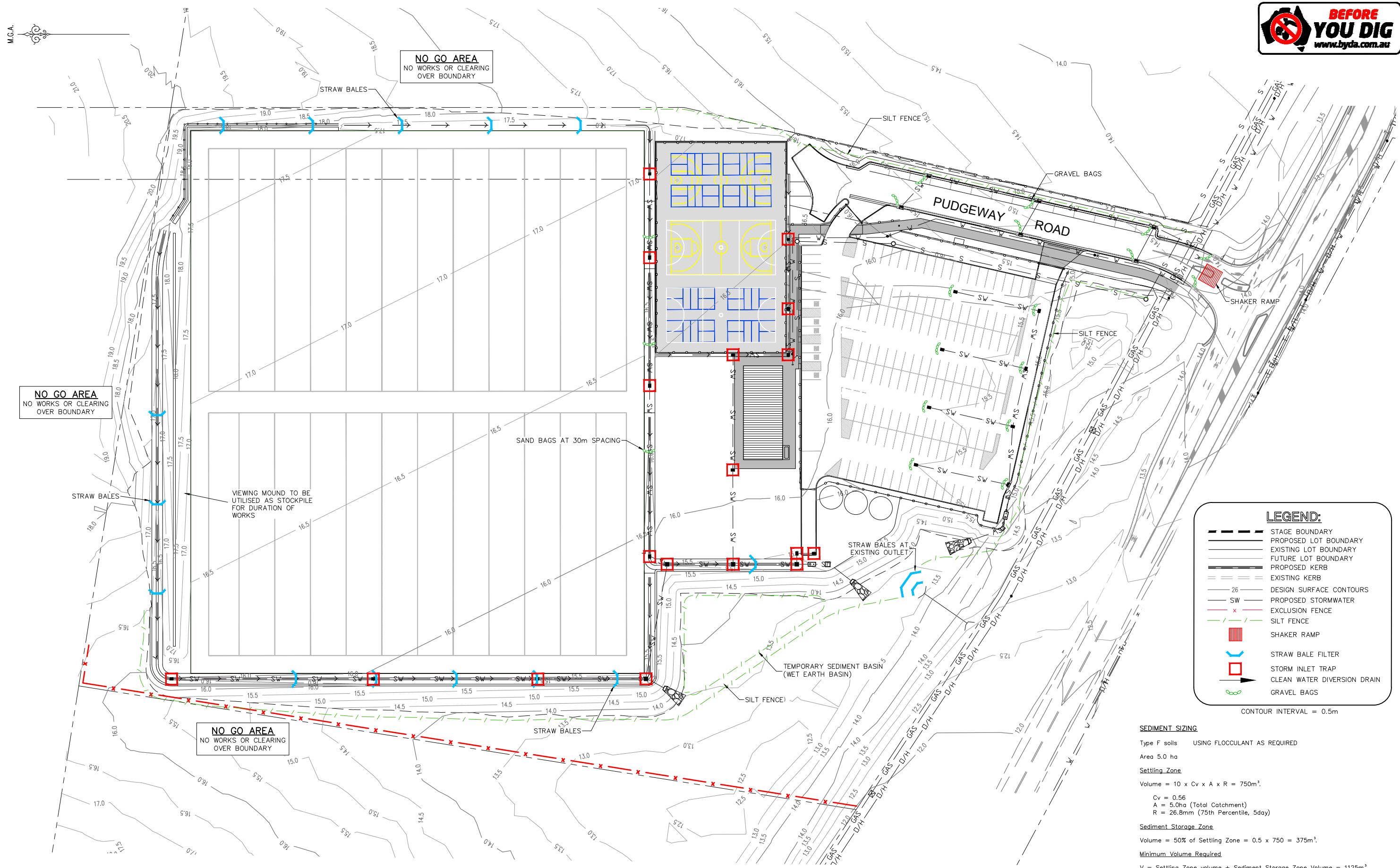


DETAIL B4
SCALE 1:10



SECTION B5
SCALE 1:10

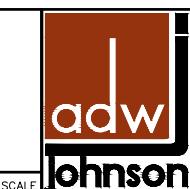
REV	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
1	23.07.2025	UPDATED SEWER DESIGN BASED ON SERVICE LOCATION	B.U. J.J.	B.U. T.W.	B.U. T.W.	C.Sh C.Sh	A1 0 0.5 1.0m A3 1:10 0 0.25 0.5m A3 1:20
2	22.11.2025	UPDATED SEWER					



REV	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
1	23.07.2025	UPDATED SEWER DESIGN BASED ON SERVICE LOCATION	B.U. J.J.	B.U. T.W.	B.U. T.W.	C.Sh C.Sh	0 10 20 A1 / A3 1:500 / 1:1000
2	22.11.2025	UPDATED SEWER					

adw
johnson

DESIGN FILE: S:\239418\239418(1)\DESIGN\12D\SPORTING FIELDS
ALL DIMENSIONS ARE IN METRES. DO NOT SCALE



Central Coast
5 Pioneer Avenue,
P.O. Box 3717,
Tuggerah N.S.W. 2259
Phone: (02) 4305 4300
Fax: (02) 4305 4399
email: coast@adwjohson.com.au
www.adwjohson.com.au
ABN 62 129 445 398



PROPERTY DESCRIPTION
PROPOSED SPORTING FIELDS & ACCESS ROAD
SCENIC DRIVE, COLONGRA
LOT 500 D.P.755266
CPA/2963

SURVEYED
TREHY INGOLD NEATE

DATUM
A.H.D.

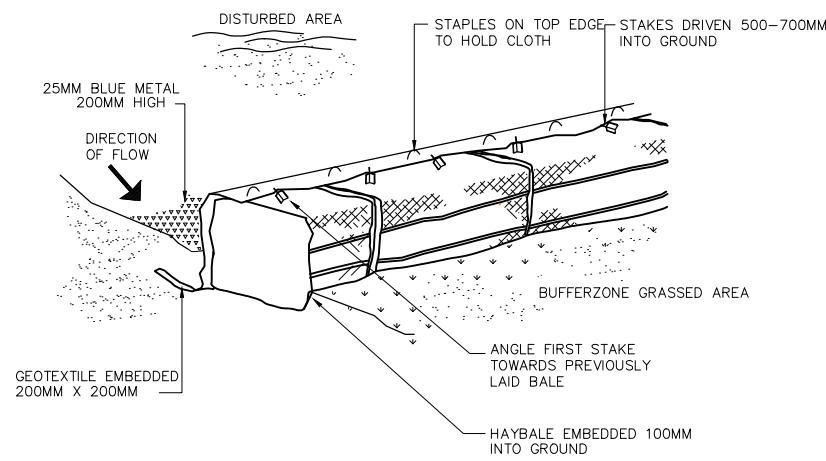
PROJECT
COLONGRA SPORTING FIELDS DESIGN
PLAN TITLE
EROSION & SEDIMENT
CONTROL PLAN

PROJECT No.
239405 -
DISCIPLINE
ENG -
NUMBER
801
REV.
2

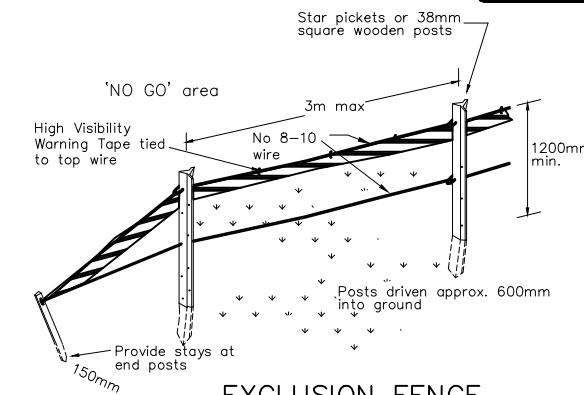


NOTES:

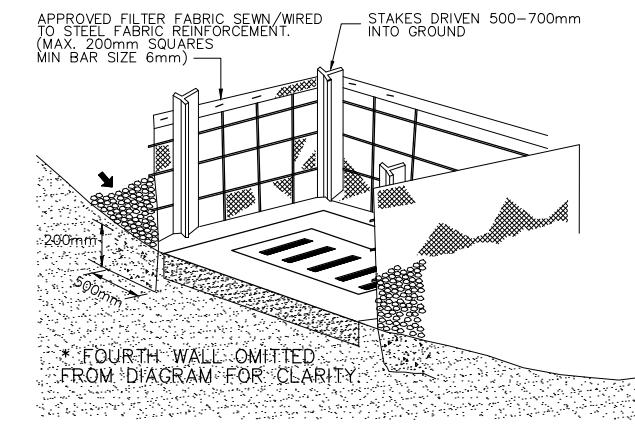
- ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH BLUE BOOK (MANAGING URBAN STORMWATER SOILS AND CONSTRUCTION - LANDCOM, FOURTH EDITION, 2004) IN LINE WITH W.S.C. No.67.
- DISTURBED AREAS TO BE KEPT TO A MINIMUM. NO MORE THAN 2.5HA OF THE SITE SHALL BE EXPOSED TO EROSION AT ANY ONE TIME.
- CONTROL CLEAN WATER FROM ABOVE THE SITE, THROUGH THE SITE.
- KEEP CLEAN WATER SEPARATE FROM DIRTY WATER.
- CONSERVE ALL TOPSOIL, STOCKPILE AND PROTECT FOR REUSE ON SITE.
- PROTECT ALL DISTURBED AREAS FROM EROSION.
- MINIMISE SEDIMENTATION.
- MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES UNTIL COMPLETE REHABILITATION IS ACHIEVED.
- CONSTRUCT STABILISED EARTH BERMS TO DIRECT CLEAN RUNOFF FROM ENTERING THE DISTURBED SITE.
- CONSTRUCT STABILISED DIVERSION BANKS TO COLLECT RUNOFF FROM DISTURBED AREAS AND DIRECT IT TO A SEDIMENT CONTROL PIT.
- PLACE SEDIMENT INLET TRAPS AROUND ALL PITS WITHIN AND DOWNSTREAM OF THE DEVELOPMENT.
- PLACE GRAVEL BAG GROYNES IN GUTTERS AT 20 - 25m INTERVALS.
- NO HAY OR STRAW BALES ARE TO BE PLACED IN SWALES. ROCK OR SAND BAG CHECK DAMS ARE TO BE USED INSTEAD.
- NO HAY OR STRAW BALES TO BE USED IN DRAINAGE LINES OR CONCENTRATED FLOW PATHS. USE OTHER METHODS IN ACCORDANCE WITH BLUE BOOK (LANDCOM,2004) AND IN CONSULTATION WITH COUNCIL STAFF.
- STOCKPILES OF MATERIAL TO BE PLACED AWAY FROM DRAINAGE FLOW PATHS AND HEAVILY TRAFFICABLE AREAS AND TO BE SURROUNDED BY SILT FENCING AT ALL TIMES.
- CONSTRUCT AN ALL WEATHER CONSTRUCTION ACCESS TO THE SITE.
- ALL DISTURBED AREAS ARE TO BE REVEGETATED OR OTHERWISE PROTECTED AS SOON AS PRACTICAL.
- ERECT AND MAINTAIN SILT FENCES AT THE DOWNSLOPE SIDE OF DISTURBED AREA DURING CONSTRUCTION.
- AREAS OUTSIDE THE BOUNDARIES OF THE PROPOSED DEVELOPMENT WILL BE FENCED WITH NO GO FENCING TO KEEP THE AREAS FREE FROM DISTURBANCE OF MACHINERY, PARKED VEHICLES AND WASTE MATERIAL.
- TREES TO BE RETAINED WITHIN THE CONSTRUCTION AREAS ARE TO BE PROTECTED BY TREE PROTECTION FENCING IN ACCORDANCE WITH THE APPROVED CMP.
- ESTABLISH A RESTRICTION BOUNDARY AROUND PROTECTED PLANT WITH PARAWEB FENCING TEMPORARILY RELOCATE FENCE TO ALLOW CONSTRUCTION OF REQUIRED WORKS AND RE-ESTABLISH PROTECTION ZONE AFTER WORKS COMPLETES.
- END OF DAY EROSION AND SEDIMENT CONTROL MEASURES TO BE INSTALLED.
- LARGE WRAPPED AND UNWRAPPED ROCK CHECK DAMS ARE TO BE USED IN DRAINAGE LINES IN PREFERENCE TO STRAW BALES.
- MULCH BERMS TO BE USED IN PREFERENCE OF SEDIMENT FENCES. LOCATIONS AND DIMENSIONS TO BE DETERMINED IN CONSULTATION WITH COUNCIL STAFF.
- TREES AND SHRUB WHICH ARE FELLED SHALL BE SALVAGED FOR RE-USE, EITHER IN LOG FORM OR AS A WOODCHIP MULCH FOR EROSION CONTROL AND OR SITE REHABILITATION. NON-SALVAGEABLE MATERIAL SUCH AS ROOTS AND STUMPS SHALL BE DISPOSED OF IN AN APPROPRIATE MANNER.
- TREES AND OTHER VEGETATION MAY ONLY BE REMOVED FROM SITE IN ACCORDANCE WITH THE APPROVED CONSTRUCTION CERTIFICATE DRAWINGS AND REVIEW OF ENVIRONMENTAL FACTORS. AN APPLICATION SHALL BE MADE TO COUNCIL FOR THE REMOVAL OF OTHER TREES.



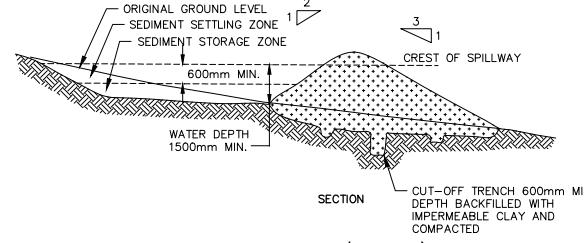
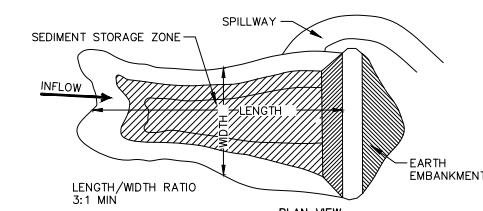
STRAWBALE & GEOTEXTILE FENCE



EXCLUSION FENCE



STORM INLET SEDIMENT TRAP

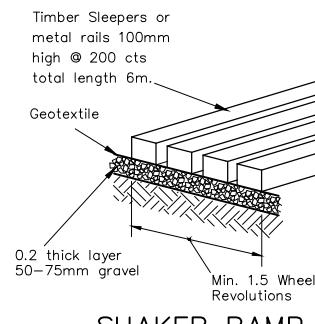


WET EARTH BASIN (SD6-4)

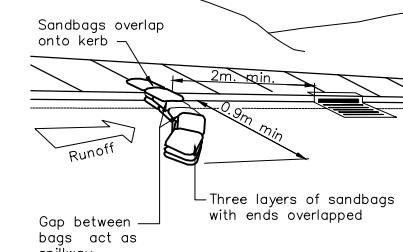
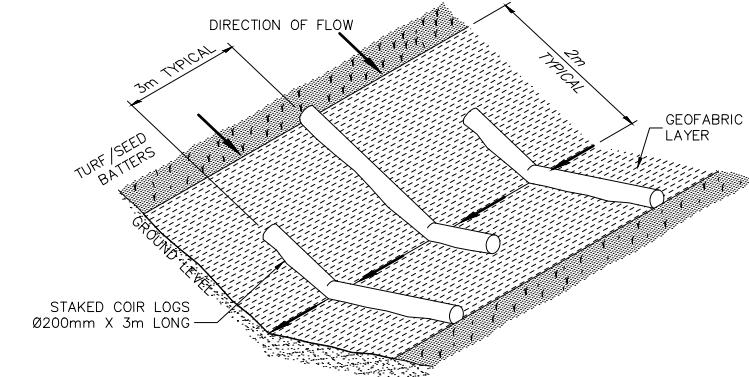
N.T.S.

BASIN CONSTRUCTION NOTES:

- REMOVE ALL VEGETATION AND TOPSOIL FROM UNDER THE DAM WALL AND FROM WITHIN THE STORAGE AREA.
- CONSTRUCT A CUT-OFF TRENCH 500mm DEEP AND 1200mm WIDE ALONG THE CENTRELINE OF THE EMBANKMENT EXTENDING TO A POINT ON THE GULLY WALL LEVEL WITH THE RISER CREST.
- MAINTAIN THE TRENCH FREE OF WATER AND RECOMPACT THE MATERIALS WITH EQUIPMENT AS SPECIFIED IN THE SWMP TO 95 PERCENT STANDARD PROCTOR DENSITY.
- SELECT FILL ACCORDING TO THE SWMP THAT IS FREE FROM ROOTS, WOOD, ROCK, LARGE STONE OR FOREIGN MATERIAL.
- PREPARE THE SITE UNDER THE EMBANKMENT BY RIPPING TO AT LEAST 100mm TO HELP BOND THE COMPACTED FILL TO THE EXISTING SUBSTRATE.
- SPREAD THE FILL IN 100mm TO 150mm LAYERS AND COMPACT IT AT OPTIMUM MOISTURE CONTENT FOLLOWING THE SWMP.
- CONSTRUCT THE EMERGENCY SPILLWAY.
- REHABILITATE THE STRUCTURE FOLLOWING THE SWMP.



SHAKER RAMP

GRAVEL BAG KERB INLET
SEDIMENT TRAP

BATTER INTERFACE TREATMENT

100mm AT FULL SIZE
This plan includes coloured information. If you have a black and white copy, you do not have all of the information. This note is coloured RED.

REV	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
1	23.07.2025	UPDATED SEWER DESIGN BASED ON SERVICE LOCATION	B.U. J.J.	B.U. T.W.	B.U. T.W.	C.Sh C.Sh	
2	22.11.2025	UPDATED SEWER					

DESIGN FILE S:\239418\239418(1)\DESIGN\12D\SPORTING FIELDS
ALL DIMENSIONS ARE IN METRES. DO NOT SCALE



Central Coast
P.O. Box 3717,
Tuggerah N.S.W. 2259
Phone: (02) 4305 4300
Fax: (02) 4305 4399
email: coast@adwjohson.com.au
www.adwjohson.com.au
ABN 62 129 445 398



PROPERTY DESCRIPTION
PROPOSED SPORTING FIELDS & ACCESS ROAD
SCENIC DRIVE, COLONGRA
LOT 500 D.P.755266
CPA/2963

SURVEYED
TREHY INGOLD NEATE

PROJECT
COLONGRA SPORTING FIELDS DESIGN

PLAN TITLE
EROSION & SEDIMENT CONTROL
DETAILS

PROJECT No.
239405

DISCIPLINE
ENG

NUMBER
811

REV.
2

ED.

ZE

FULL
all of t

1. FOR SPORTING FIELDS PROFILES & INTENSIVE DRAINAGE TYPICAL DETAILS REFER TO DESIGN BY SPORTSTURF DESIGN AND CONSULTING.
2. FOR IRRIGATION DETAILS REFER TO DESIGN BY AQUEDUCT CONSULTANCY.
3. IRRIGATION CONTROLLER TO BE LOCATED IN BUILDING AND IS TO INCLUDE A TANK LOW LEVEL INDICATOR/ALARM. TO BE INSTALLED WITHIN A TEMPORARY LOCK BOX UNTIL AMENITIES BUILDING IS CONSTRUCTED.
4. POTABLE WATER SUPPLY TO BE PROVIDED FOR TANK TOP-UP & DRINKING FOUNTAIN.
5. PROPERTY CONNECTION, 65mm METER & BUILDING SUPPLY AS PART OF THE AMENITIES BUILDING CONTRACT (SEPARATE CONTRACT BY OTHERS).
6. PROVIDE ADDITIONAL ELECTRICAL CONDUIT FOR POWER SUPPLY TO FUTURE PA SYSTEM AND PUMP WELLS (SEPARATE CONTRACT BY OTHERS).
7. LIGHTING POLES TO HAVE MOUNTING ARRANGEMENTS PROVIDED FOR RETROFITTING OF PA SYSTEM. MOUNTING ARRANGEMENT MUST COMPLY WITH LIGHTING POLE MANUFACTURER'S SPECIFICATIONS. PLAYING FIELD LIGHTING, NETBALL COURT LIGHTING & CARPARK LIGHTING REFER TO DESIGN BY LIGHTING, ART + SCIENCE REF: EL-007 REV T2.

This plan includes coloured information

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALE
1	23.07.2025	UPDATED SEWER DESIGN BASED ON SERVICE LOCATION	B.U.	B.U.	B.U.	C.Sh	0 10 20 A1 / 1:400 /
2	22.11.2025	UPDATED SEWER	J.J.	T.W.	T.W.	C.Sh	0 5 10 A1 / 1:200 /

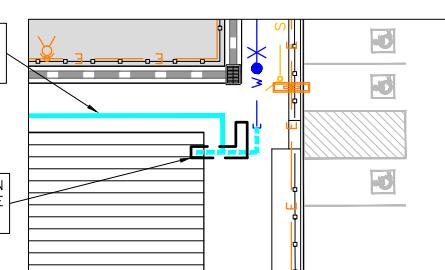
A3
1:800
A3
1:400
SCALE

Central Coast
5 Pioneer Avenue,
P.O. Box 3717,
Tuggerah N.S.W. 2259
Phone: (02) 4305 4300
Fax: (02) 4305 4399
email: coast@adwjohnson.com.au
www.adwjohnson.com.au
ABN 62 129 445 398

CLIENT

<p style="text-align: center;">PROPERTY DESCRIPTION</p> <p style="text-align: center;">PROPOSED SPORTING FIELDS & ACCESS ROAD</p> <p style="text-align: center;">SCENIC DRIVE, COLONGRA</p> <p style="text-align: center;">LOT 500 D.P.755266</p> <p style="text-align: center;">CPA/2963</p>	
SURVEYED	DATUM
TREHY INGOLD NEATE	

	PROJECT COOLONGRA SPORTING FIELDS DESIGN		
	PLAN TITLE	SPORTING FIELDS DETAILS & SERVICE ALLOCATION PLAN	
PROJECT No.	DISCIPLINE	NUMBER	RE
239405	ENG	- 901	2



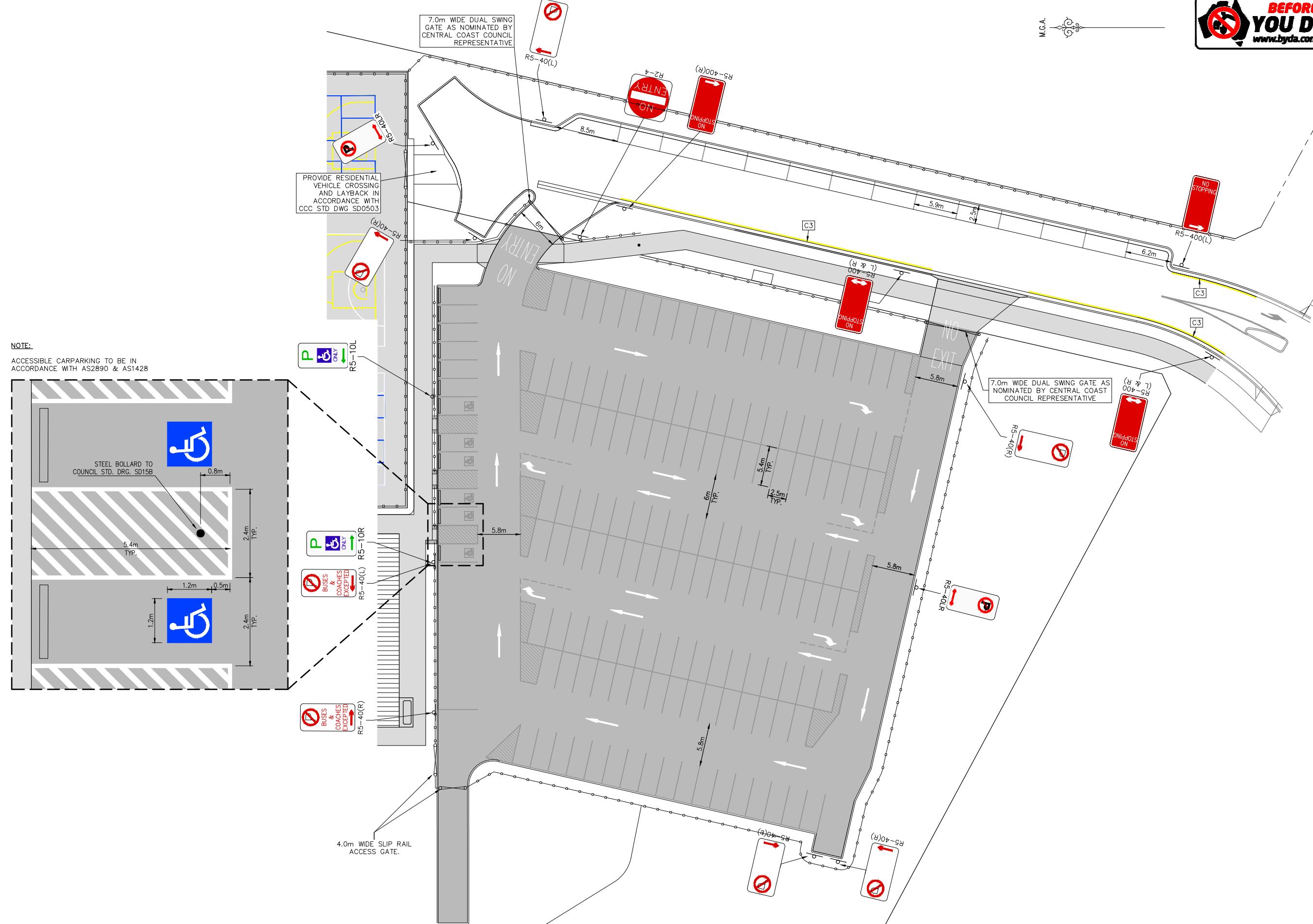
INSET

SPORTING FIELDS SETOUT			
SOP	EASTING	NORTHING	RL
1	363843.505	6322750.221	16.68
2	363995.505	6322749.76	18.2
3	363995.123	6322622.761	16.93
4	363843.124	6322623.222	15.41

LEGEND

LEGEND

- PROPOSED STORMWATER**: Solid black line
- PROPOSED SEWER**: Yellow line with 'S' symbol
- PROPOSED WATER**: Blue line with 'W' symbol
- DN50 POTABLE LINE (SEE NOTE 4)**: Green line
- WATER SUPPLY BY OTHERS (SEE NOTE 5)**: Cyan line
- PROPOSED 11kV LEAD-IN**: Red line with 'HV' symbol
- PROPOSED INTERNAL POWER**: Orange line with 'E' symbol
- IRRIGATION — MAINLINE**: Dashed black line
- IRRIGATION — LATERAL**: Dashed blue line
- IRRIGATION CONTROL (SEE NOTE 3)**: Purple line with triangle symbol
- PROPOSED TRANSFER LINE**: Purple line with 'RM' symbol
- PUMP WELL TO HARVEST TANK**: Green line
- DRAINAGE LATERAL AT 2.5m SPACING**: Green line with horizontal dashes
- DRAINAGE MAIN 100mm PVC**: Green line with vertical dashes
- EXISTING GAS**: Solid black line
- EXISTING OVERHEAD POWER**: Yellow line with 'ex O/H' symbol
- EXISTING TELSTRA**: Blue line with 'ex t' symbol
- EXISTING WATER**: Red line with 'ex w' symbol
- EXISTING STORMWATER**: Cyan line with 'ex sw' symbol



REV	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
1	23.07.2025	UPDATED SEWER DESIGN BASED ON SERVICE LOCATION	B.U. J.J.	B.U. T.W.	B.U. T.W.	C.Sh C.Sh	0 5 10 A1 / A3 1:250 / 1:500
2	22.11.2025	UPDATED SEWER					

DESIGN FILE S:\239418\239418(1)\DESIGN\12D\SPORTING FIELDS

ALL DIMENSIONS ARE IN METRES. DO NOT SCALE



Central Coast
P.O. Box 3717,
Tuggerah N.S.W. 2259
Phone: (02) 4305 4300
Fax: (02) 4305 4399
email: coast@adwjohson.com.au
www.adwjohson.com.au
ABN 62 129 445 398



PROPERTY DESCRIPTION
PROPOSED SPORTING FIELDS & ACCESS ROAD
SCENIC DRIVE, COLONGRA
LOT 500 D.P.755266
CPA/2963

SURVEYED
TREHY INGOLD NEATE

DATUM
A.H.D.

PROJECT
COLONGRA SPORTING FIELDS DESIGN

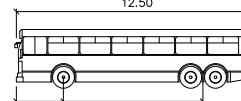
PLAN TITLE
LINEMARKING & SIGNPOSTING PLAN

PROJECT No.
239405

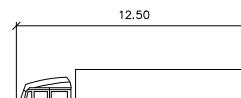
DISCIPLINE
ENG

NUMBER
911

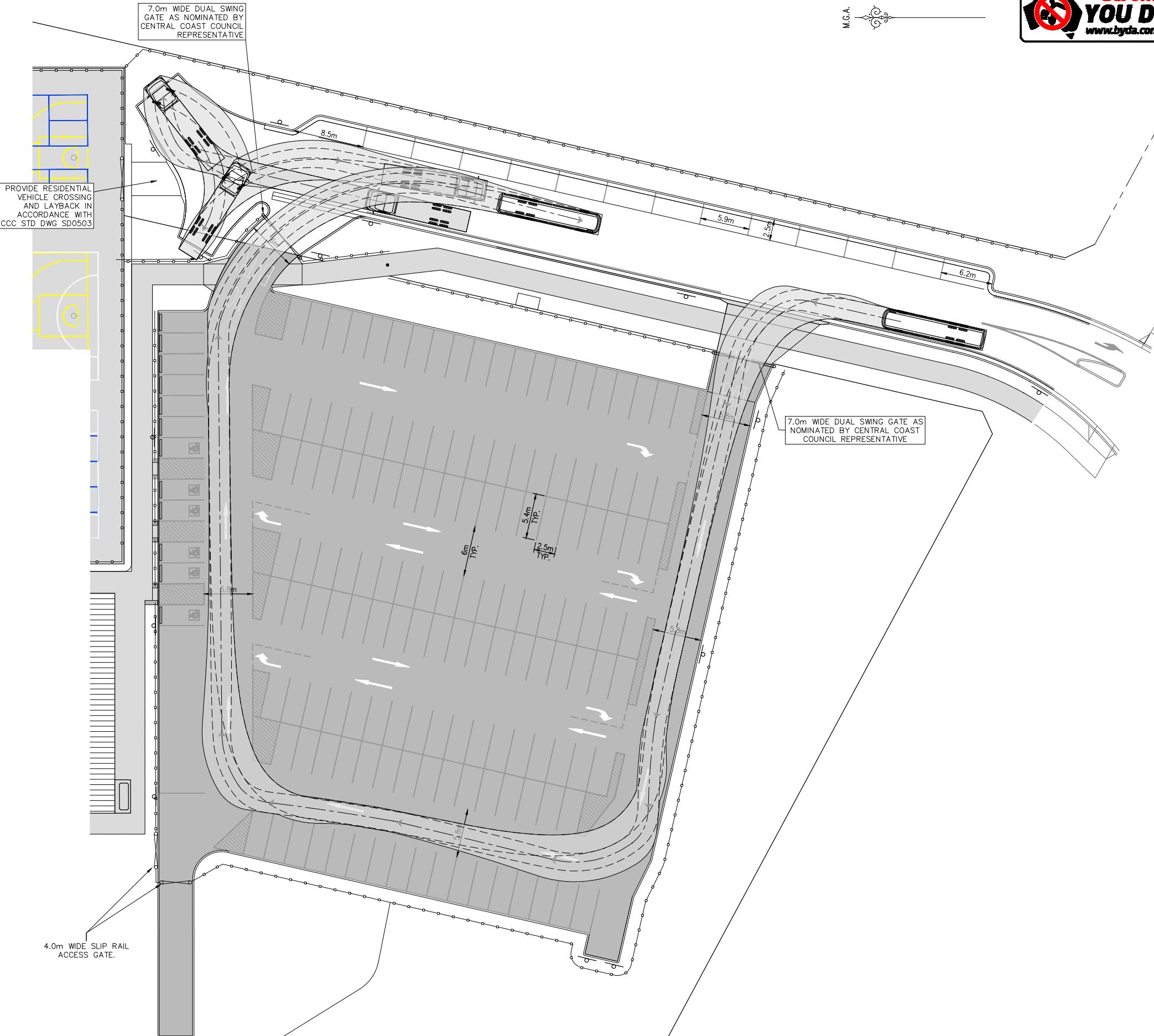
REV.
2



BUS
Width : 2.50
Track : 2.50
Lock to Lock Time : 6.0
Steering Angle : 36.6



SU TRUCK
Width : 2.50
Track : 2.50
Lock to Lock Time : 6.0
Steering Angle : 36.6



REV	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
1	23.07.2025	UPDATED SEWER DESIGN BASED ON SERVICE LOCATION	B.U. J.J.	B.U. T.W.	B.U. T.W.	C.Sh C.Sh	0 5 10 A1 / A3 1:250 / 1:500
2	22.11.2025	UPDATED SEWER					

DESIGN FILE S:\239418\239418(1)\DESIGN\12D\SPORTING FIELDS

ALL DIMENSIONS ARE IN METRES. DO NOT SCALE



Central Coast
P.O. Box 3717,
Tuggerah N.S.W. 2259
Phone: (02) 4305 4300
Fax: (02) 4305 4399
email: coast@adwjohson.com.au
www.adwjohson.com.au
ABN 62 129 445 398



PROPERTY DESCRIPTION
PROPOSED SPORTING FIELDS & ACCESS ROAD
SCENIC DRIVE, COLONGRA
LOT 500 D.P.755266
CPA/2963

SURVEYED
TREHY INGOLD NEATEDATUM
A.H.D.

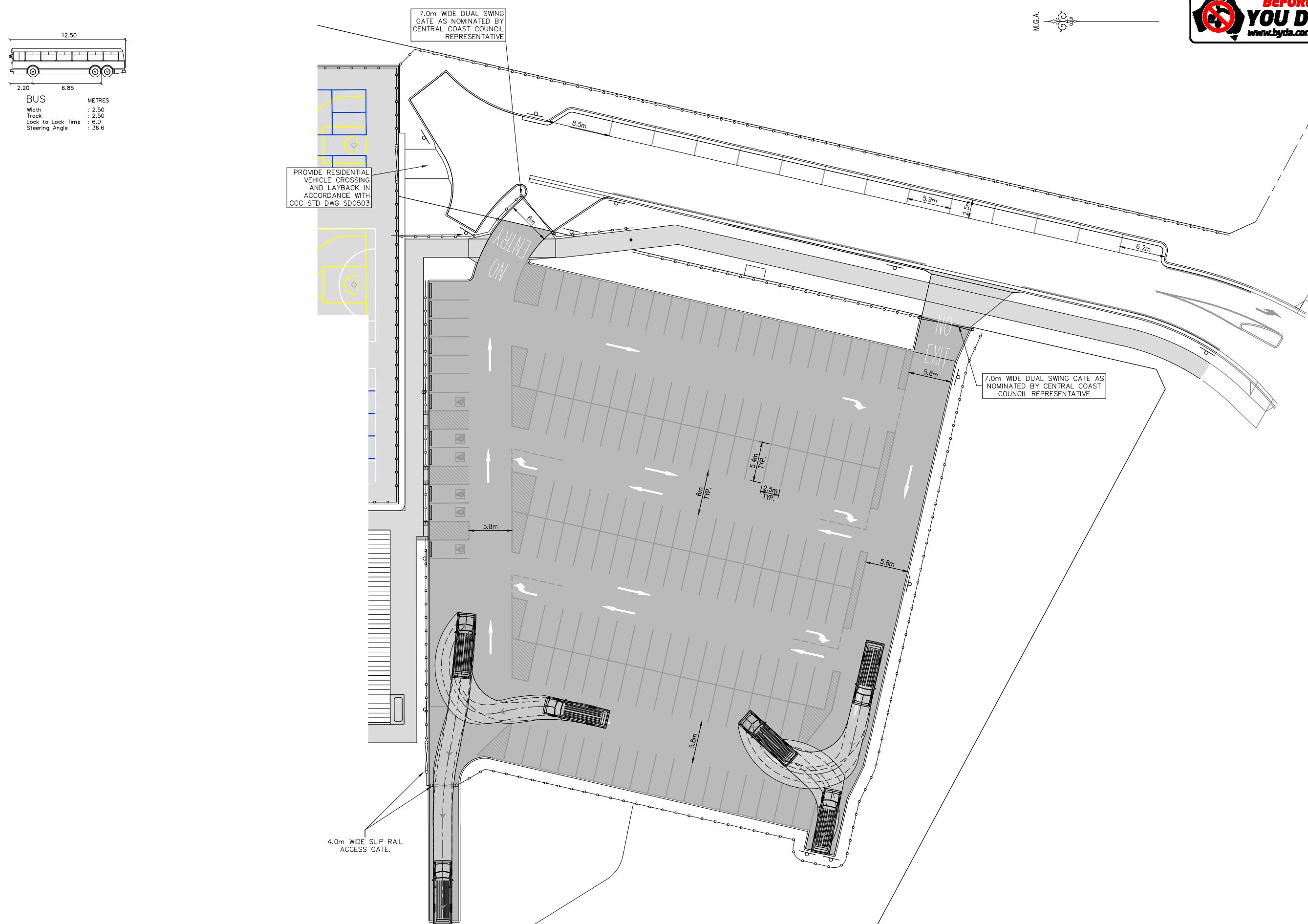
PROJECT
COLONGRA SPORTING FIELDS DESIGN
PLAN TITLE
VEHICLE MOVEMENTS PLAN
SHEET 1

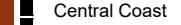
PROJECT No.
239405

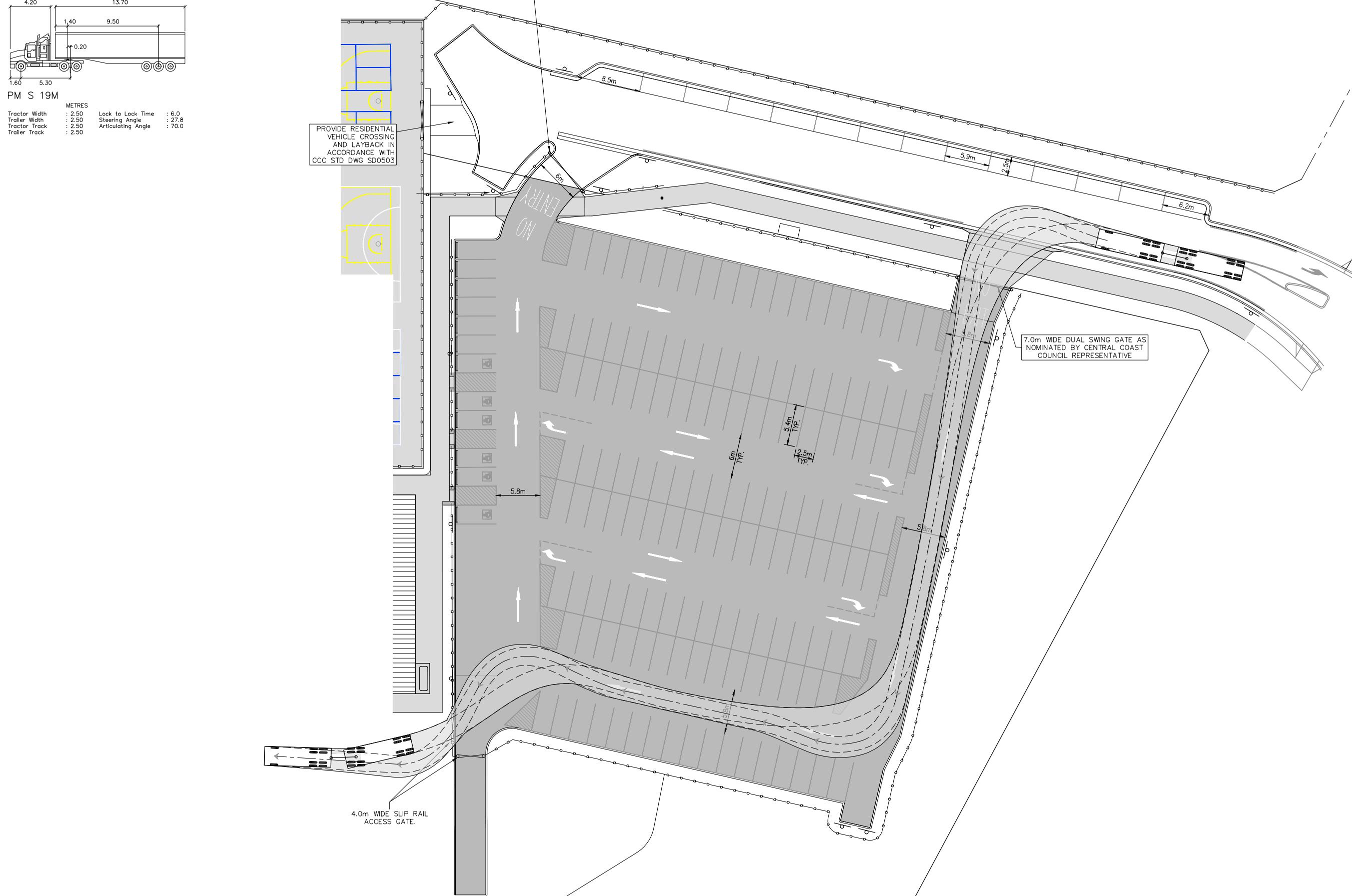
DISCIPLINE
ENG

NUMBER
912

REV.
2



REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALE	CLIENT	PROPERTY DESCRIPTION	PROJECT	
1	23.07.2025	UPDATED SEWER DESIGN BASED ON SERVICE LOCATION	B.U. J.J.	B.U. T.W.	B.U. T.W.	C.Sh C.Sh	0 5 10 1:250 / 1:500	 	Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohson.com.au www.adwjohson.com.au	PROPOSED SPORTING FIELDS & ACCESS ROAD SCENIC DRIVE, COOLONGRA LOT 500 D.P.755266 CPA/2963	COOLONGRA SPORTING FIELDS DESIGN
2	22.11.2025	UPDATED SEWER							PLAN TITLE	VEHICLE MOVEMENTS PLAN SHEET 2	
DESIGN FILE: S:\239418\239418(1)\DESIGN\120\SPORTING.FIELDS											
ALL DIMENSIONS ARE IN METRES. DO NOT SCALE											
ABN 62 129 445 398											
SURVEYED				DATUM		PROJECT No.	DISCIPLINE	NUMBER	REV.		
TREHY INGOLD NEATE				A.H.D.		239405	ENG	913	2		



REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALE
1	23.07.2025	UPDATED SEWER DESIGN BASED ON SERVICE LOCATION	B.U. J.J.	B.U. T.W.	B.U. T.W.	C.Sh C.Sh	0 5 10
2	22.11.2025	UPDATED SEWER					A1 / A1 1:250 / 1:1000



Central Coast
5 Pioneer Avenue,
P.O. Box 3717,
Tuggerah N.S.W. 2259
Phone: (02) 4305 4300
Fax: (02) 4305 4399
email: coast@adwjohnson.com.au
www.adwjohnson.com.au
ABN 62 129 445 398



PROPERTY DESCRIPTION
PROPOSED SPORTING FIELDS & ACCESS ROAD
SCENIC DRIVE, COLONGRA
LOT 500 D.P.755266
CPA/2963

PROJECT CO LONGBA SPORTING FIELD DESIGN

VEHICLE MOVEMENTS PLAN SHEET 3

PROJECT No.	DISCIPLINE	NUMBER	REV.
239405	ENG	914	2