

HARROW RECREATION RESERVE, HARROW - RECONSTRUCTION WORKS OF EXISTING COURTS TO TWO NEW MULTI PURPOSE NETBALL/TENNIS COURTS AND ONE TENNIS COURT.

WEST WIMMERA SHIRE COUNCIL



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TENDER
ISSUED FOR TENDER



WARNING
UNDERGROUND SERVICES
The location of underground services are not shown on plans and should be verified on site prior to commencement of any works

				DESIGNED:	DATE:	31-10-2022		CLIENT: 	PROJECT: HARROW RECREATION RESERVE, HARROW - PROPOSED REDEVELOPMENT WORKS OF EXISTING COURTS - 2 MULTI PURPOSE NETBALL/TENNIS & 1 TENNIS COURT	CIVIL DRAWINGS	
				DRAWN:	SHEET SIZE:	A3				DRAWING TITLE: 2240-01	
				CHECKED:	G. DEVENISH	SCALE:				DRAWING INDEX & LOCALITY PLAN	
				APPROVED:	G. DEVENISH	NOT TO SCALE				SHEET: 1 of 29	REVISION: A
A	ISSUED FOR COMMENTS	G.DEVENISH	04.12.22								

STANDARD NOTES:

- ALL WORKS ARE TO BE CARRIED OUT IN ACCORDANCE WITH THE CONSTRUCTION DRAWINGS, COUNCIL STANDARD DRAWINGS, SPECIFICATIONS AND TO THE SATISFACTION OF COUNCIL'S SUPERVISING OFFICER OR HIS/HER APPOINTED REPRESENTATIVE.
- COUNCIL TO BE NOTIFIED SEVEN (7) CLEAR DAYS PRIOR TO COMMENCEMENT OF WORKS.
- ALL LEVELS SHOWN ARE TO A.H.D.
- PRIOR TO COMMENCEMENT OF WORKS ON SITE, THE CONTRACTOR MUST ENSURE THAT ALL MATTERS RELATING TO THE OCCUPATIONAL HEALTH & SAFETY ACT 2004, INCLUDING ALL RELEVANT REGULATIONS, HAVE BEEN ADDRESSED. IN PARTICULAR, PREVENTION OF FALLS AND PLANT. DETAILS OF THE CONTRACTORS SITE MANAGEMENT PLAN INCLUDING OCCUPATIONAL HEALTH AND SAFETY PROCEDURES MUST BE LODGED WITH THE COUNCIL PRIOR TO COMMENCEMENT OF WORKS.
- ON COMMENCEMENT OF CONSTRUCTION WORKS ON SITE, THE CONTRACTOR MUST COMPLY WITH THE RECOMMENDATIONS OF THE ENVIRONMENT PROTECTION AUTHORITY PUBLICATION "CONSTRUCTION TECHNIQUES FOR SEDIMENT POLLUTION CONTROL" (PUBLICATION NO 275). APPROPRIATE SILTATION CONTROL IS TO BE CARRIED OUT DURING THE CONSTRUCTION AND MAINTENANCE PERIOD.
- NO EXCAVATION SHALL BE CARRIED OUT WITHIN THE CANOPY DRIP LINE OR 5.0M, WHICHEVER IS GREATER OF ANY EXISTING TREE UNTIL APPROVAL HAS BEEN GIVEN BY COUNCIL'S SUPERVISING OFFICER OR HIS/HER APPOINTED REPRESENTATIVE.
- A TEMPORARY 1.8m CONSTRUCTION HIGH POST & WIRE FENCE SHALL BE ERECTED AND MAINTAINED AROUND EXISTING TREES, NOMINATED TO BE RETAINED AS PER A TREE PROTECTION ZONE (TPZ) CONDITION, AT ALL TIMES DURING CONSTRUCTION. UNDER NO CIRCUMSTANCES SHALL SITE SHEDS, VEHICLES, MACHINERY AND EQUIPMENT BE STORED OR PLACED WITHIN FENCED ZONE OF THESE TREES.
- THE CONTRACTOR SHALL TO THE SATISFACTION OF THE CONSULTING ENGINEER AND COUNCIL'S REPRESENTATIVE PROVIDE AND MAINTAIN ALL NECESSARY WARNING SIGNAGE, LIGHTING AND BARRICADING TO COMPLY WITH THE REQUIREMENTS OF THE ROAD MANAGEMENT ACT.
- THE LOCATION OF EXISTING SERVICES SHOULD BE DETERMINED BY THE CONTRACTOR PRIOR TO COMMENCING ANY EXCAVATION BY CARRYING OUT A DBYD AND CONTACTING ALL RELEVANT SERVICE AUTHORITIES AND/OR THEIR AGENTS. ANY EXISTING SERVICES SHOWN ON THE DRAWINGS ARE OFFERED AS A GUIDE ONLY AND ARE NOT GUARANTEED AS CORRECT.
- SERVICE TRENCHES WITHIN THE ROAD RESERVE MUST BE BACKFILLED AS SPECIFIED BELOW, TO A DRY DENSITY NOT LESS THAN 97% OF THE MAXIMUM FOUND IN THE STANDARD COMPACTION TEST FOR THE FOLLOWING:
 - SERVICE TRENCHES BENEATH THE ROAD PAVEMENT, FOOTPATH OR DRIVEWAY CROSSOVER, TO THE UNDERSIDE OF THE PAVEMENT OR CROSSOVER BEDDING WITH 20MM CLASS 3 FCR WITH 3% CEMENT ADDITIVE.
 - DRAINAGE PIPES ADJACENT TO KERBING OR CONCRETE STRUCTURES WITH 20MM CLASS 4 FCR TO A LEVEL THAT IS NOT AFFECTED BY A 45 DEGREE ANGLE OF REPOSE FROM THE NEAR LOWER EDGE OF SUCH STRUCTURE, OTHERWISE TO FULL DEPTH.
- ALL EXCAVATIONS OF A DEPTH 1.5M OR GREATER MUST COMPLY WITH WORKCOVER VICTORIA. A "NOTICE OF INTENTION TO EXCAVATE..." FORM MUST BE SUBMITTED TO WORKCOVER 3 DAYS PRIOR TO THE WORK EXCAVATIONS.
 - CALL 1800 136 089 TOLL FREE OR 03) 9641 1444 TO OBTAIN FORM.
 - FAX FORM/S TO: 03) 9565 9400 OR 9941 0555.
- ALL CONCRETE TO BE USED IN THE CONTRACT WORKS SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 25 MPA AT 28 DAYS.
- ALL DRAINAGE PIPES ARE TO BE REINFORCED CONCRETE CLASS 2 RUBBER RING JOINTED AS A MINIMUM UNLESS OTHERWISE APPROVED. ALL PVC PIPES TO BE CLASS SH UNLESS OTHERWISE APPROVED.
- 90mm DIA. AGRICULTURAL PIPE DRAINS TO BE PLACED BEHIND ALL KERB AND CHANNEL ON 20MM AGGREGATE BEDDING, 200MM BELOW SUBGRADE, AT GRADE AND WHERE DIRECTED BY THE CONSULTING ENGINEER.
- MINIMUM COVER TO OBVERT OF DRAINAGE PIPES SHALL BE 300MM IN EASEMENTS AND 500MM IN ROAD RESERVES, EXCEPT WHERE PIPE CLASS '4' WILL BE INSTALLED.
- FILL AREAS ARE TO BE STRIPPED OF TOPSOIL, FILLED USING APPROVED CLAY FILL AND THEN TOPSOIL REPLACED TO OBTAIN FINAL FILL LEVELS AS SHOWN ON PLANS. ALL FILLING TO BE CARRIED OUT IN 150MM LAYERS AND COMPACTED TO 95% OF MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 3798-2007: GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS. ON COMPLETION AND AT THE DIRECTION OF COUNCIL OFFICER THE CONTRACTOR SHALL PRESENT A "LEVEL 1" TYPED REPORT NOMINATING THE EXTENT OF FILL PLACED. IT'S CONFORMANCE WITH THE SPECIFICATION AND ITS CLASSIFICATION AS "CONTROLLED FILL". IF ANY SUBSTANDARD FILLING IS ENCOUNTERED ON THE SITE IT MUST BE REMOVED AND REPLACED WITH APPROVED FILL MATERIAL PROPERLY COMPACTED TO COUNCIL REQUIREMENTS. A GEO-TECHNICAL REPORT MUST BE SUBMITTED SHOWING DETAILS OF DEPTH, TYPE OF MATERIAL AND DENSITY OF THE FILL AREAS CONCERNED.
- THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL IMPORTED FILL MATERIAL, INCLUDING TOPSOIL, SATISFIES THE DESCRIPTION FOR CLEAN FILL MATERIAL IN EPA BULLETIN PUBLICATION NO. 448 (SEPT '95) AND SUBSEQUENT REVISIONS. THE CONTRACTOR SHALL PROVIDE VERIFICATION INCLUDING TEST CERTIFICATES TO THE SUPERVISING ENGINEER.
- BATTERS SHALL BE 1 IN 6 MINIMUM UNLESS OTHERWISE APPROVED AND COVERED AND SMOOTHED WITH MINIMUM OF 100MM TOPSOIL.
- ROAD PAVEMENTS ARE TO HAVE A MINIMUM DEPTH OF 300MM INCLUDING SURFACING.

- OPEN SPACE RESERVES;
 - RESERVES TO BE EVENLY GRADED, SEEDED AND FREE DRAINING TO THE SATISFACTION OF RESPONSIBLE AUTHORITY.
 - DESIGN INFORMATION TO INCLUDE RETICULATED WATER SUPPLY IN U/G PIT CONFIGURATION, BOLLARDS, SEATING, PLAYGROUND EQUIPMENT AND BBQ'S ETC. WHERE REQUIRED BY THE PERMIT.
- ALL NATURE STRIPS, EXCAVATED OR FILLED AREAS WITHIN THE ROAD RESERVE SHALL BE RESURFACED WITH A 100MM LAYER OF TOPSOIL AS SPECIFIED, FREE FROM CLAY AND STONE, EVENLY GRADED AND SEEDED TO THE SATISFACTION OF RESPONSIBLE AUTHORITY.
- ON COMPLETION THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF ALL BUILDING WASTE, RUBBISH AND SPOIL FROM THE SITE. NO SURPLUS TREES, VEGETATION OR OTHER MATERIALS IS TO BE BURNT ON SITE.
- AS-CONSTRUCTED DATA INCLUDING ALTERATIONS DURING CONSTRUCTION ARE TO BE PROVIDED PRIOR TO ISSUE OF STATEMENT OF COMPLIANCE;
 - DRAWINGS ARE TO BE IN A1 AND A3 HARDCOPY AND IN AUTOCAD (2010) AND ADOBE PDF FORMATS.

COUNCIL HOLD POINTS

- THE FOLLOWING HOLD POINT INSPECTIONS SHALL APPLY UNTIL WORKS ARE APPROVED BY COUNCIL'S SUPERVISING OFFICER. CONSULTING ENGINEER/S TO BE PRESENT AT THESE HOLD POINTS;
- PRE-COMMENCEMENT OF WORKS SITE MEETING.
 - SUBGRADE PROOF-ROLL PRIOR TO PLACEMENT OF SUB-BASE.
 - SUB-BASE PROOF-ROLL PRIOR TO PLACEMENT OF BASE COURSE AND TEST RESULTS.
 - BASE COURSE PROOF-ROLL PRIOR TO SEALING AND TEST RESULTS.
 - PRIOR TO TRENCH BACKFILLING;
 - STORM WATER DRAINAGE, INCLUDING SUBSOIL AG DRAINS, AND
 - PROPERTY CONNECTIONS.
 - FOOTPATH, DRIVEWAY AND KERB AND CHANNEL PRIOR TO PLACEMENT OF CONCRETE.
 - INSPECTION AT PRACTICAL COMPLETION OF THE WORKS (COMMENCEMENT OF DEFECTS LIABILITY PERIOD).
 - 2ND INSPECTION AT THE END OF 12 MONTHS (END OF DEFECTS LIABILITY PERIOD).

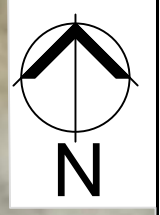
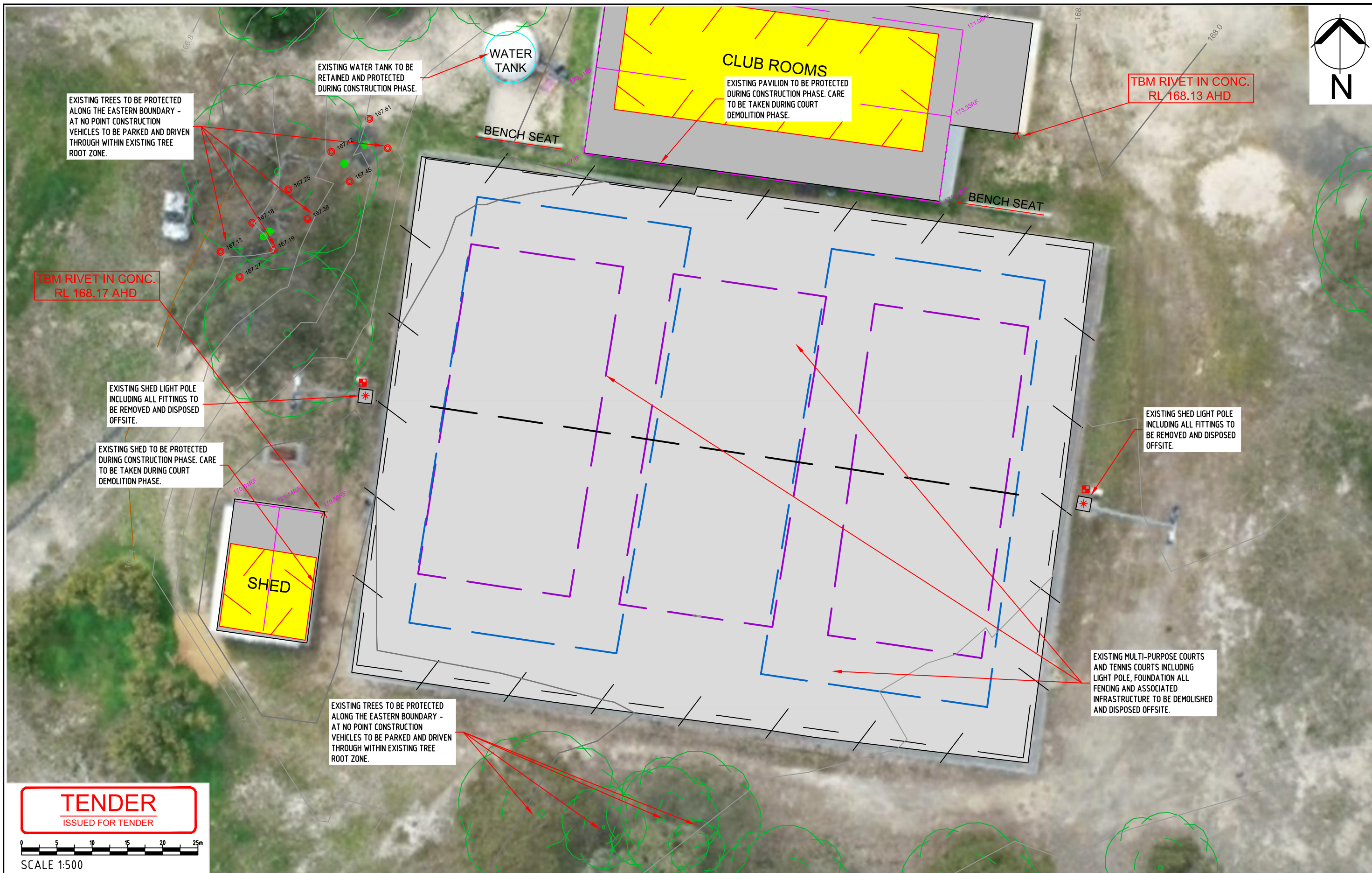
LEGEND

	NEW STORMWATER DRAINAGE
	EXISTING STORMWATER DRAINAGE
	EXISTING SEWER
	EXISTING GAS
	EXISTING COMMS (TELSTRA)
	EXISTING ELECTRICITY
	EXISTING WATER
	ITEMS OR SERVICES TO BE DEMOLISHED
	EXISTING FENCING
	TITLE BOUNDARY
	360mm HIGH FENCING AS PER AS1725.2-2010
	1200mm HIGH FENCING AS PER AS1725.5-2010
	AG SUBSOIL DRAIN
	SWALE
	HEADWALL
	SIDE ENTRY PIT
	GRATED PIT
	JUNCTION PIT
	PITNUMBERS
	BOLLARD
	INDICATES TREES PROPOSED TO BE REMOVED

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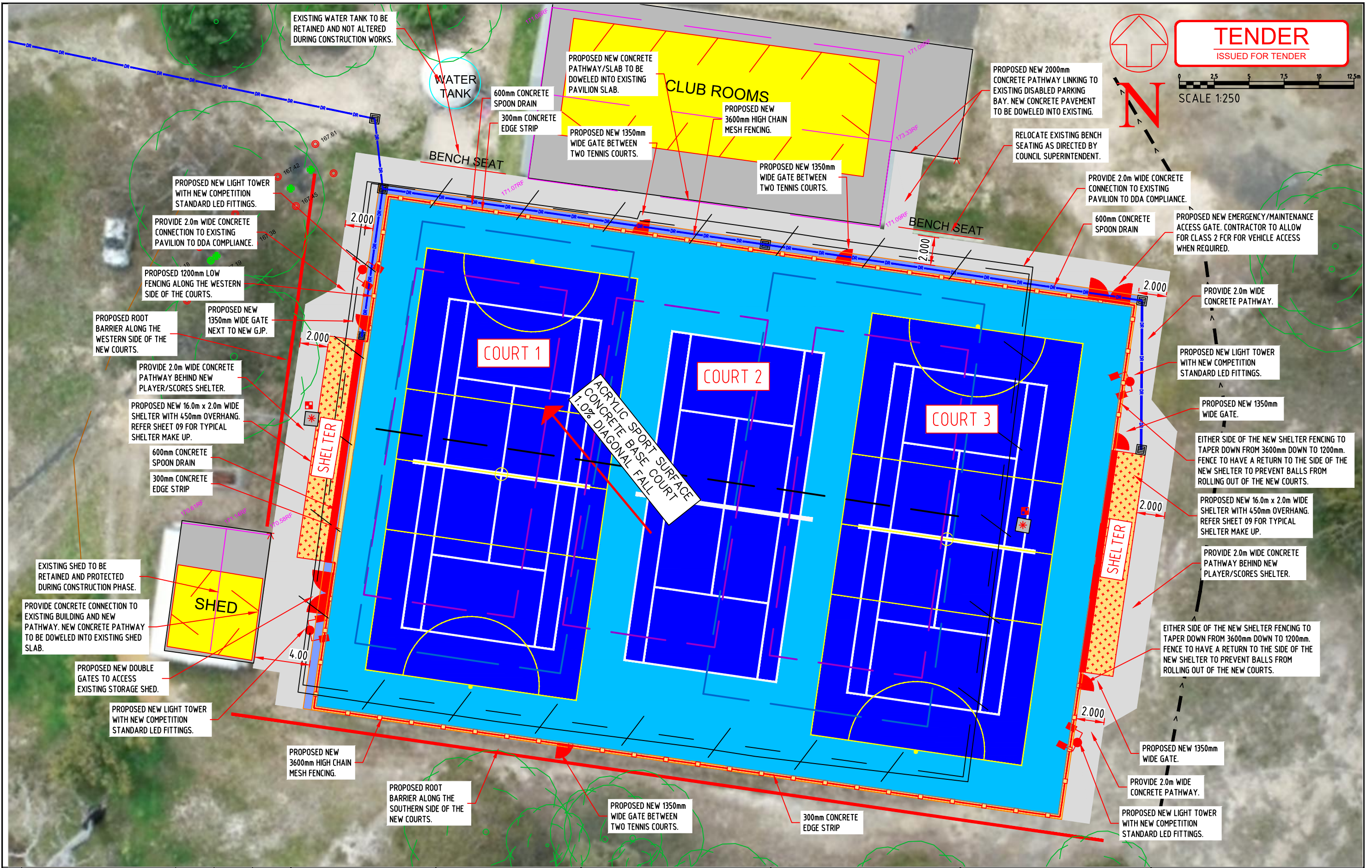
WARNING
UNDERGROUND SERVICES
The location of underground services are not shown on plans and should be verified on site prior to commencement of any works

				DESIGNED:	DATE:	31-10-2022		CLIENT:		PROJECT:	CIVIL DRAWINGS		
				DRAWN:	SHEET SIZE:	A3				DRAWING TITLE:	2240-02		
				CHECKED:	G. DEVENISH	SCALE:				GENERAL NOTES			
A	ISSUED FOR COMMENTS	G.DEVENISH	04.11.22	APPROVED:	G. DEVENISH	NOT TO SCALE				SHEET:	2 of 29	REVISION:	A



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		DESIGNED:	DATE:		CLIENT: 	PROJECT:		CIVIL DRAWINGS		
		DRAWN:	SHEET SIZE:			HARROW RECREATION RESERVE, HARROW		DRAWING TITLE: 2240-03		
		CHECKED: G. DEVENISH	SCALE:			- PROPOSED REDEVELOPMENT WORKS OF		EXISTING CONDITIONS & DEMOLITION PLAN		
A		APPROVED: G. DEVENISH	1:500 @ A3			EXISTING COURTS - 2 MULTI PURPOSE NETBALL/TENNIS & 1 TENNIS COURT		SHEET: 3 of 29		REVISION: A



C	ADDITIONAL PIT INSTALLED	G.DEVENISH	18.11.22
B	DRAINAGE OUTFALL SHIFTED	G.DEVENISH	08.11.22
A	ISSUED FOR COMMENTS	G.DEVENISH	28.10.22

DESIGNED:	DATE:	28-10-2022
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APPROVED:	G. DEVENISH	1:250 @ A3

IDWALA
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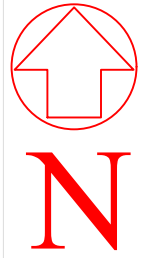
CLIENT:



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WIMMERA
SHIRE COUNCIL

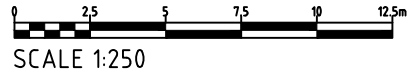
PROJECT:
HARROW RECREATION RESERVE, HARROW
- PROPOSED REDEVELOPMENT WORKS OF
EXISTING COURTS - 2 MULTI PURPOSE
NETBALL/TENNIS & 1 TENNIS COURT

CIVIL DRAWINGS	
DRAWING TITLE: 2240-04	
LAYOUT PLAN - SHEET 1 of 2	
SHEET: 4 of 29	REVISION: C



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SCALE 1:250

PROPOSED DRAINAGE OUTFALL LOCATED JUST LEFT OF ACCESS TRACK TO EXISTING TENNIS COURTS. PROPOSED ROCK BEACHING SET IN MORTAR TO PREVENT SCOURING. WATER TO DISPERSE INTO EXISTING OPEN DRAIN.

RELOCATE EXISTING BENCH SEATING AS DIRECTED BY COUNCIL SUPERINTENDENT.

EXISTING WATER TANK TO BE RETAINED AND NOT ALTERED DURING CONSTRUCTION WORKS.

WATER TANK

600mm CONCRETE SPOON DRAIN
300mm CONCRETE EDGE STRIP

PROPOSED NEW CONCRETE PATHWAY/SLAB TO BE DOWELED INTO EXISTING PAVILION SLAB.

CLUB ROOMS

PROPOSED NEW 3600mm HIGH CHAIN MESH FENCING.

PROPOSED NEW 1350mm WIDE GATE BETWEEN TWO TENNIS COURTS.

PROPOSED NEW 1350mm WIDE GATE BETWEEN TWO TENNIS COURTS.

PROPOS CONCRE EXISTIN BAY. NE TO BE D

PROPOSED NEW LIGHT TOWER WITH NEW COMPETITION STANDARD LED FITTINGS.

PROVIDE 2.0m WIDE CONCRETE CONNECTION TO EXISTING PAVILION TO DDA COMPLIANCE.

PROPOSED 1200mm LOW FENCING ALONG THE WESTERN SIDE OF THE COURTS.

PROPOSED ROOT BARRIER ALONG THE WESTERN SIDE OF THE NEW COURTS.

PROPOSED NEW 1350mm WIDE GATE NEXT TO NEW G.P.

PROVIDE 2.0m WIDE CONCRETE PATHWAY BEHIND NEW PLAYER/SCORES SHELTER.

PROPOSED NEW 16.0m x 2.0m WIDE SHELTER WITH 450mm OVERHANG. REFER SHEET 09 FOR TYPICAL SHELTER MAKE UP.

600mm CONCRETE SPOON DRAIN
300mm CONCRETE EDGE STRIP

BENCH SEAT

BENCH SEAT

COURT 1

COURT 2

COURT 3

ACRYLIC SPORT SURFACE
CONCRETE BASE COURT
1.0% DIAGONAL FALL

B	DRAINAGE OUTFALL SHIFTED	G.DEVENISH	08.11.22
A	ISSUED FOR COMMENTS	G.DEVENISH	28.10.22

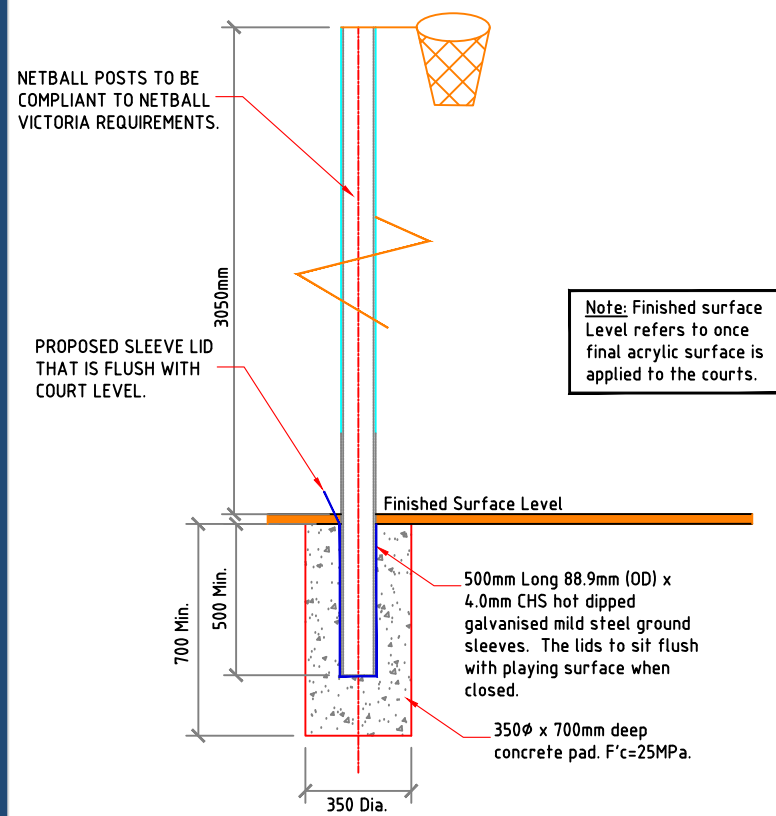
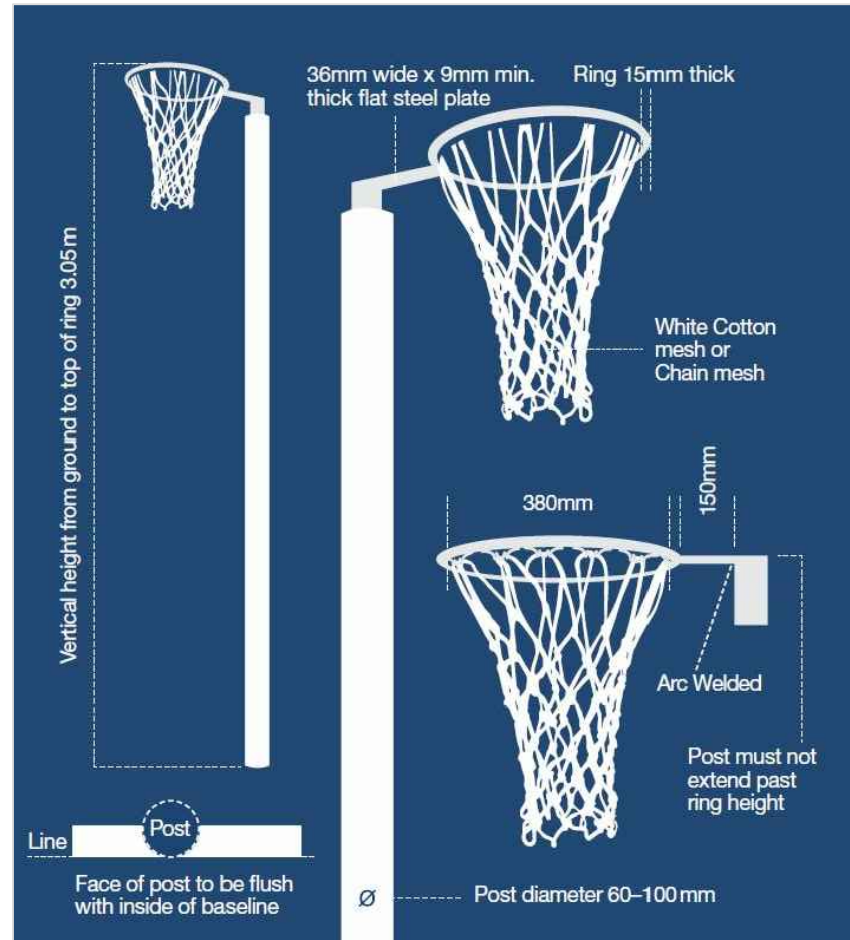
DESIGNED:	DATE:	28-10-2022
DRAWN:	SHEET SIZE:	A3
CHECKED: G. DEVENISH	SCALE:	1:250 @ A3
APPROVED: G. DEVENISH		

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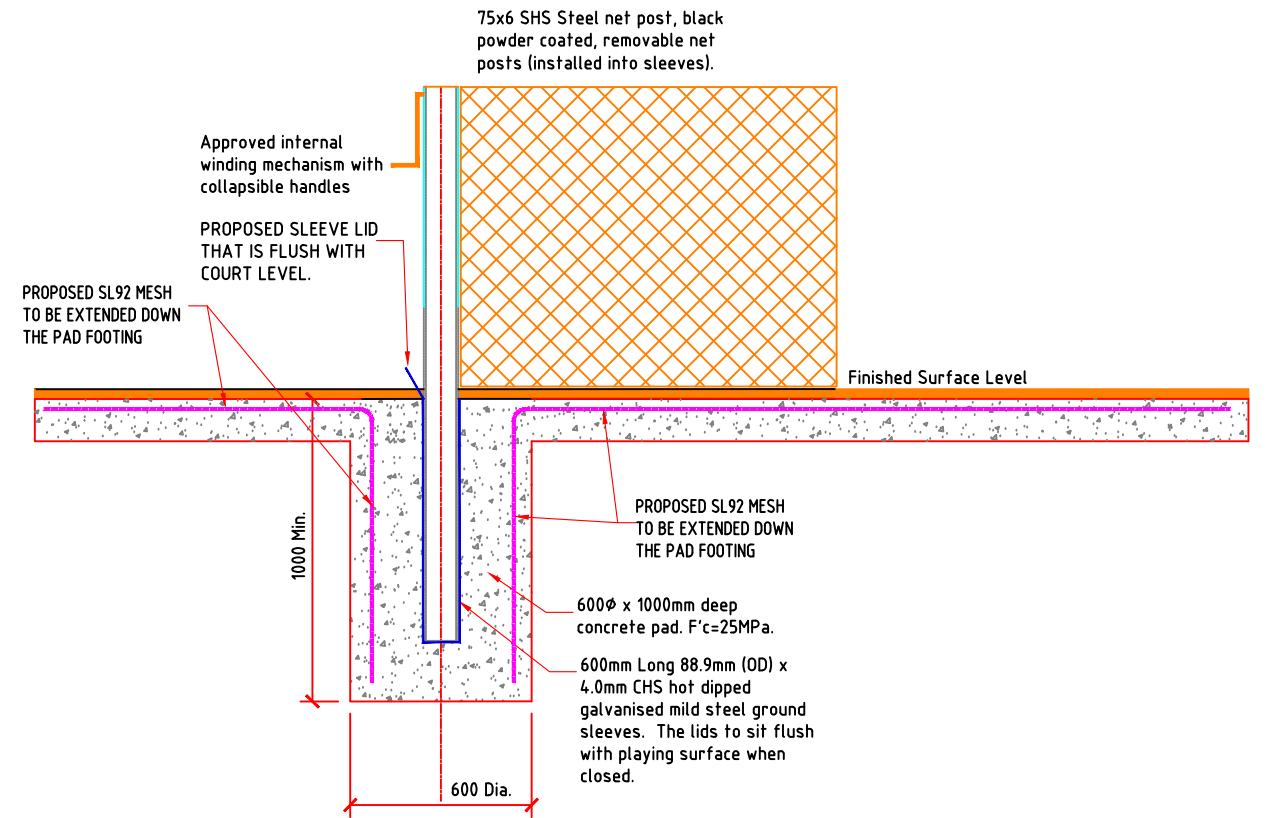
CLIENT:

PROJECT:
HARROW RECREATION RESERVE, HARROW
- PROPOSED REDEVELOPMENT WORKS OF
EXISTING COURTS - 2 MULTI PURPOSE
NETBALL/TENNIS & 1 TENNIS COURT

CIVIL DRAWINGS	
DRAWING TITLE:	2240-05
LAYOUT PLAN - SHEET 2 of 2	
SHEET:	5 of 29
REVISION:	B



TYPICAL NETBALL POSTS ENCASED IN SLEEVE SUPPORT DETAILS



TYPICAL DETAILS FOR TENNIS NET POST AND SLEEVES - INSITU CAST (PREFERRED OPTION)

NETBALL COURTS GOAL POST NOTES:

NETBALL COURTS MUST BE COMPLIANT TO CURRENT STANDARDS AS NOTED IN THE NETBALL AUSTRALIA TECHNICAL MANUAL SECTION 2 AND NETBALL VICTORIA COMPLIANCE FACT SHEET.

THIS PARTICULAR PROJECT REQUIRES THE FOLLOWING CLARIFICATIONS WHERE OPTIONS ARE PROVIDED:

- GOAL POSTS MUST BE ROUND AND THE POST, RING AND CONNECTIONS WHITE POWDER COATED.

CONTRACTOR TO NOTE:

- NETBALL COURTS:** INSTALL 4 NEW HOT DIPPED GALVANISED (MILD STEEL) INTO GROUND SLEEVES. SLEEVES TO BE 500mm LONG 88.9mm (OD)x4.0mm CHS. THE GOAL POSTS ARE TO HAVE RING HEIGHT SETTINGS OF 3050mm ABOVE THE FINISHED SURFACE. THE SLEEVES ARE TO INCORPORATE A HINGED HOT DIPPED GALVANISED (MILD STEEL) CAP (FLAP) WHICH WHEN IN THE CLOSED POSITION IS TO SIT PERFECTLY FLUSH WITH THE NETBALL COURT SURFACE SO AS NOT TO PROVIDE A TRIP HAZARD. SLEEVE CAPS MUST BE SURFACED WITH THE SAME ACRYLIC AS THE SURROUNDING COURT SURFACE.
- GOAL POSTS MUST BE 76.1mm ODx4.5mm INSTALLED INTO THE SLEEVES WITHIN CONCRETE FOOTING. FOOTING TO BE 350mm DIAMETER x 700mm MINIMUM DEEP.
- GOAL POSTS MUST BE INSTALLED SO THAT THE FACE OF THE POST IS POSITIONED FLUSH WITH THE INSIDE EDGE OF THE BASELINE SO NO PART OF THE POST IMPEDES ON THE PLAYING AREA OF THE COURT.
- GOAL RINGS MUST HAVE LOOP/EYELETS FOR NET ATTACHMENT.
- GOAL RINGS MUST NOT HAVE ARMS FROM RING TO POST (TO ALLOW FOR FULL HEIGHT PADDING).
- NETS TO BE CHAIN WIRE NET.
- PROVIDE FULL LENGTH HIGH DENSITY PADDING FOR EVERY POST WITH A MAXIMUM 50mm THICKNESS.
- RINGS - 380mm INTERNAL DIAMETER
 - 15mm RING THICKNESS
 - 150mm LENGTH CONNECTION TO POST
 - POST TO RING CONNECTION TO BE HEAVY DUTY OR REINFORCED FOR PUBLIC ACCESS SETTING.
 - STEEL HOOPS/EYELETS ARC WELDED TO THE UNDERSIDE OF THE RING TO ALLOW NET ATTACHMENT.
- ALL GOAL POSTS, RINGS TO BE HOT DIPPED GALVANISED AND POWDER COAT WHITE.

TENNIS COURT NET POSTS FOUNDATIONS:

600mm DIA x 1000mm MIN DEEP WITH A MINIMUM CONCRETE GRADE OF 25MPa POST (75mmx75mmx2.5mm POWDER COATED BLACK) TO BE REMOVABLE BY USE OF A 500mm LONG MIN. HOT DIPPED GALVANISED SLEEVE WITH DIMENSIONS 89x89x5mm. THE SLEEVES ARE TO INCORPORATE A HINGED HOT DIPPED GALVANISED (MILD STEEL) CAP (FLAP) WHICH WHEN IN THE CLOSED POSITION IS TO SIT PERFECTLY FLUSH WITH THE COURT SURFACE SO AS NOT TO PROVIDE A TRIP HAZARD. 10mm ABLEFLEX TO BE WRAPPED AROUND SLEEVE IN CONCRETE. FINISH ABLEFLEX 10mm BELOW TOP OF CONCRETE AND SEAL NEATLY WITH SIKA FLEX.

SLEEVE INSTALLATION - THE SLEEVE IS TO BE SET UP PRIOR TO THE CONCRETE SLAB FROM BEING POURED AND IS TO BE CAST IN-SITU AND DOWELED AS PER TYPICAL PICTURE. IF THE CONTRACTOR CHOOSES TO POUR THE SLAB FIRST AND CUT OUT THE AREA FOR THE SLEEVES REFER TO DETAIL CUT OUT METHOD. NO QUICKSET CONCRETE ALLOWED.

- PREMIUM INTERNAL WINDER TO BE BLACK POWDER COAT TENNIS POSTS. HANDLE MUST BE COLLAPSIBLE;
- FULL DROP DOWN NET WITH CENTRE HOOK AND STRAP;



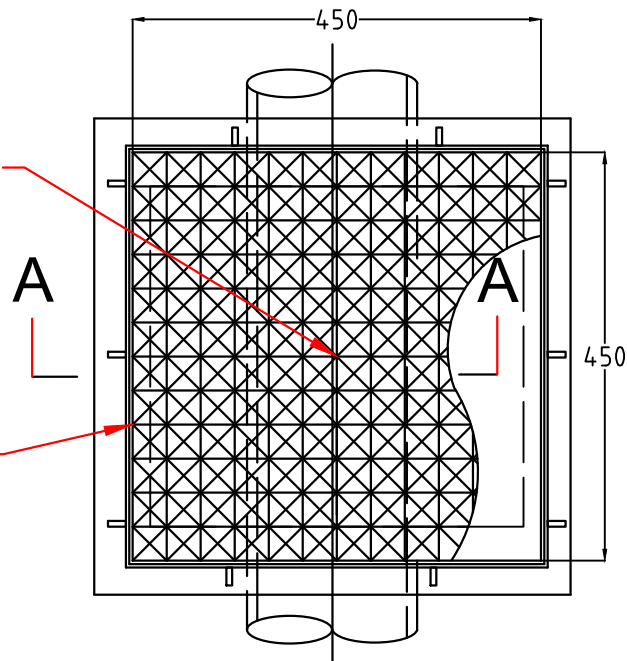
TYPICAL DETAIL FOR SLEEVE INSTALLATION - CUT OUT METHOD FOR CONCRETE PAVEMENT

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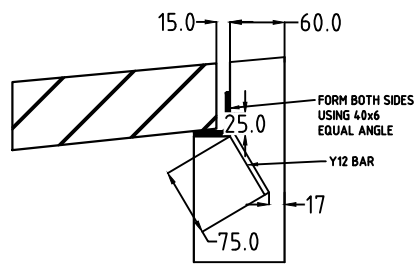
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		DRAWN:	SHEET SIZE:	A3					DRAWING TITLE: 2240-07	
		CHECKED:	G. DEVENISH	SCALE:					N/A	GOAL POSTS DETAILS FOR NETBALL & TENNIS
A	ISSUED FOR COMMENTS	G.DEVENISH	04.11.22	APPROVED:	G. DEVENISH			SHEET: 7 of 29	REVISION: A	

COORDINATED SETOUT IS TO CENTRE OF PIT

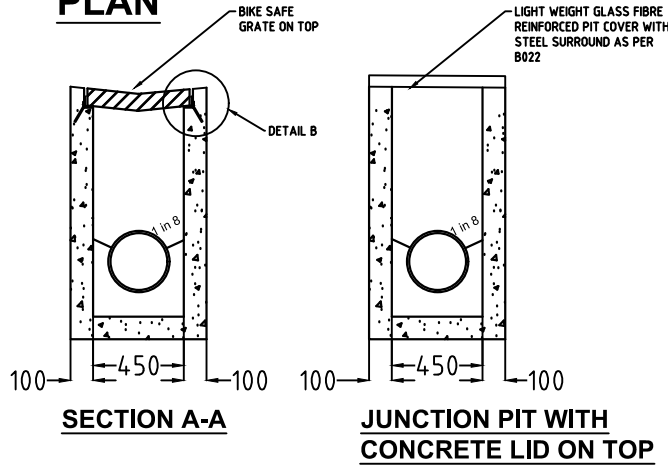
CLASS D "BIKE SAFE" GRATE



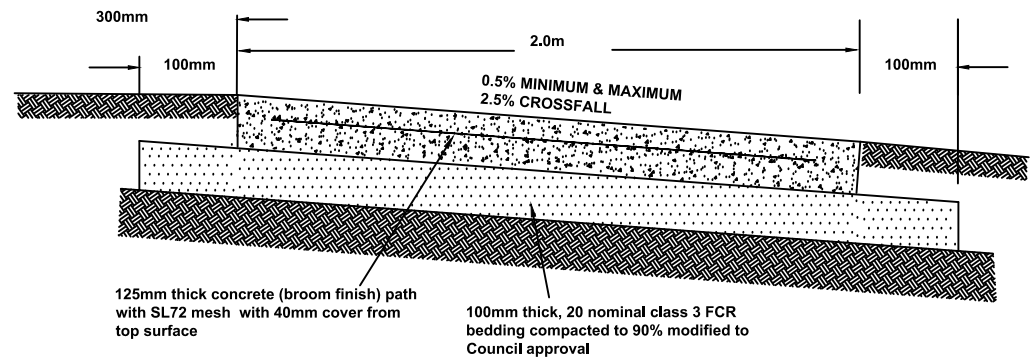
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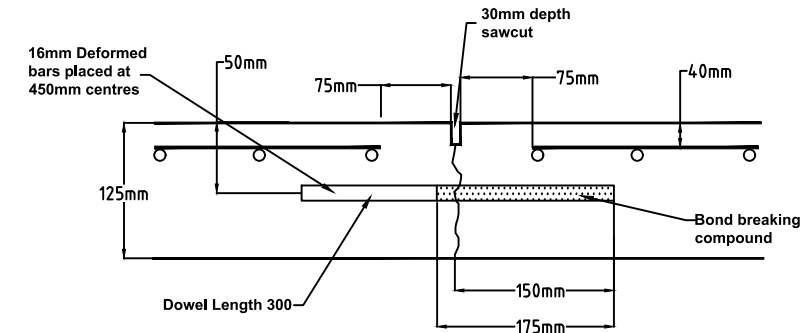
DETAIL B



- NOTES:
1. ALL DIMENSIONS IN MILLIMETERS
 2. GRATE SHALL BE "HEEL GUARD" AND MADE TO SAME SHAPE AS OPEN CHANNEL: GRATE TO BE CLASS D
 3. GRATE TO BE HOT DIPPED GALVANISED STEEL OR CAST IRON
 4. THE TOP OF THE PIT SHALL MATCH NATURE STRIP CROSSFALL
 5. CONCRETE TO BE 25Mpa AT 28 DAYS
 6. REINFORCEMENT AND OTHER DETAILS NOT SHOWN TO COUNCIL'S STANDARD DRAINAGE PIT.
 7. FOR JUNCTION PITS CONTRACTOR TO FOLLOW IDM STANDARD DRAWING SD425.

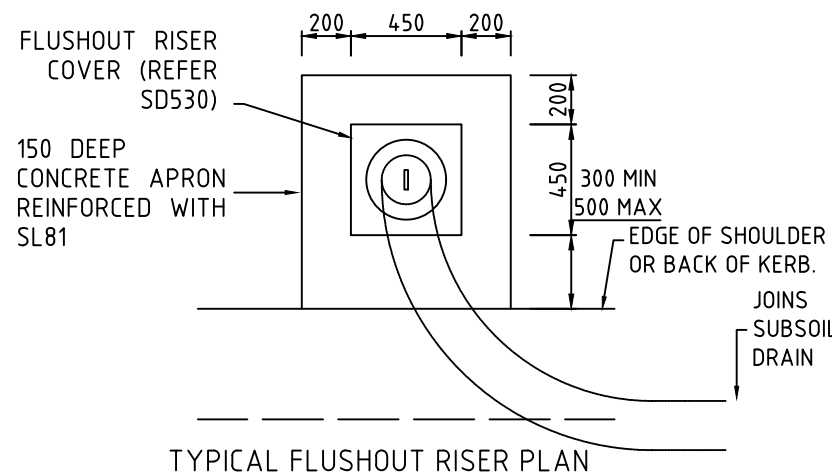


TYPICAL FOOTPATH CROSS SECTION

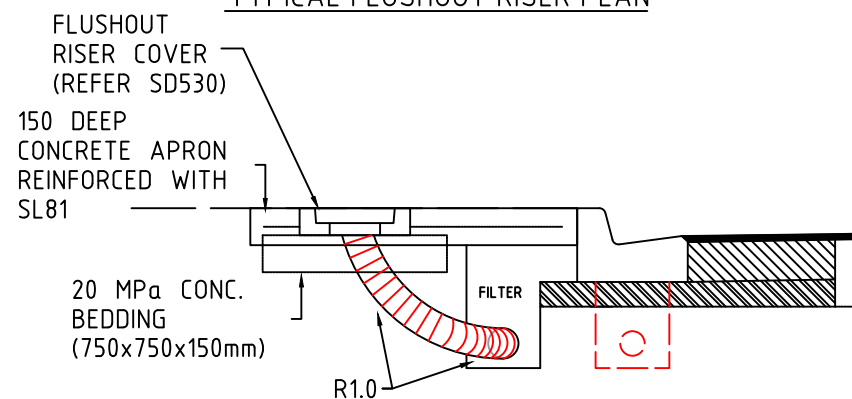


DOWELLED JOINT (All measurements in mm) NTS.

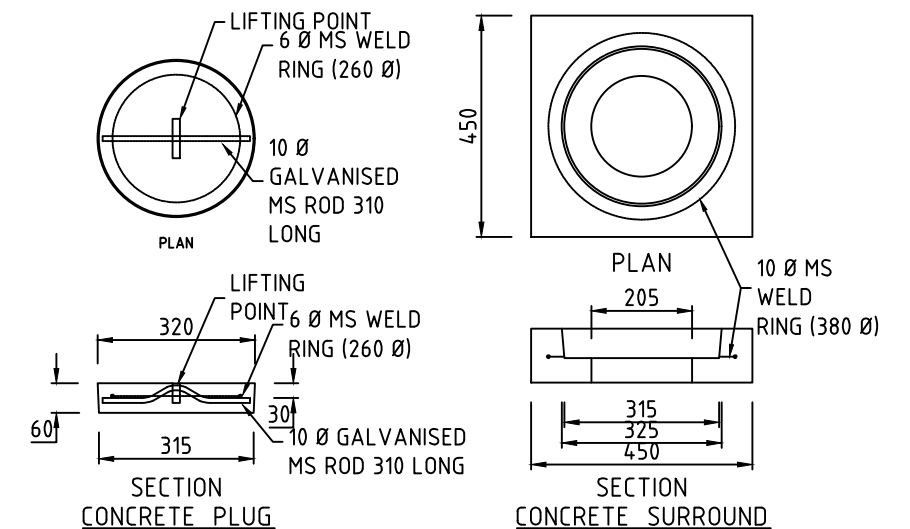
1. Concrete to be 25Mpa at 28 days (broom finish) with SL72 reinforcement placed 40mm from top surface. 10MM deformed bars to be dowelled a minimum 150mm into existing concrete, and 150mm into proposed concrete at 450mm centres.



TYPICAL FLUSHOUT RISER PLAN



FLUSHOUT RISER COVER DETAIL



TENDER
ISSUED FOR TENDER

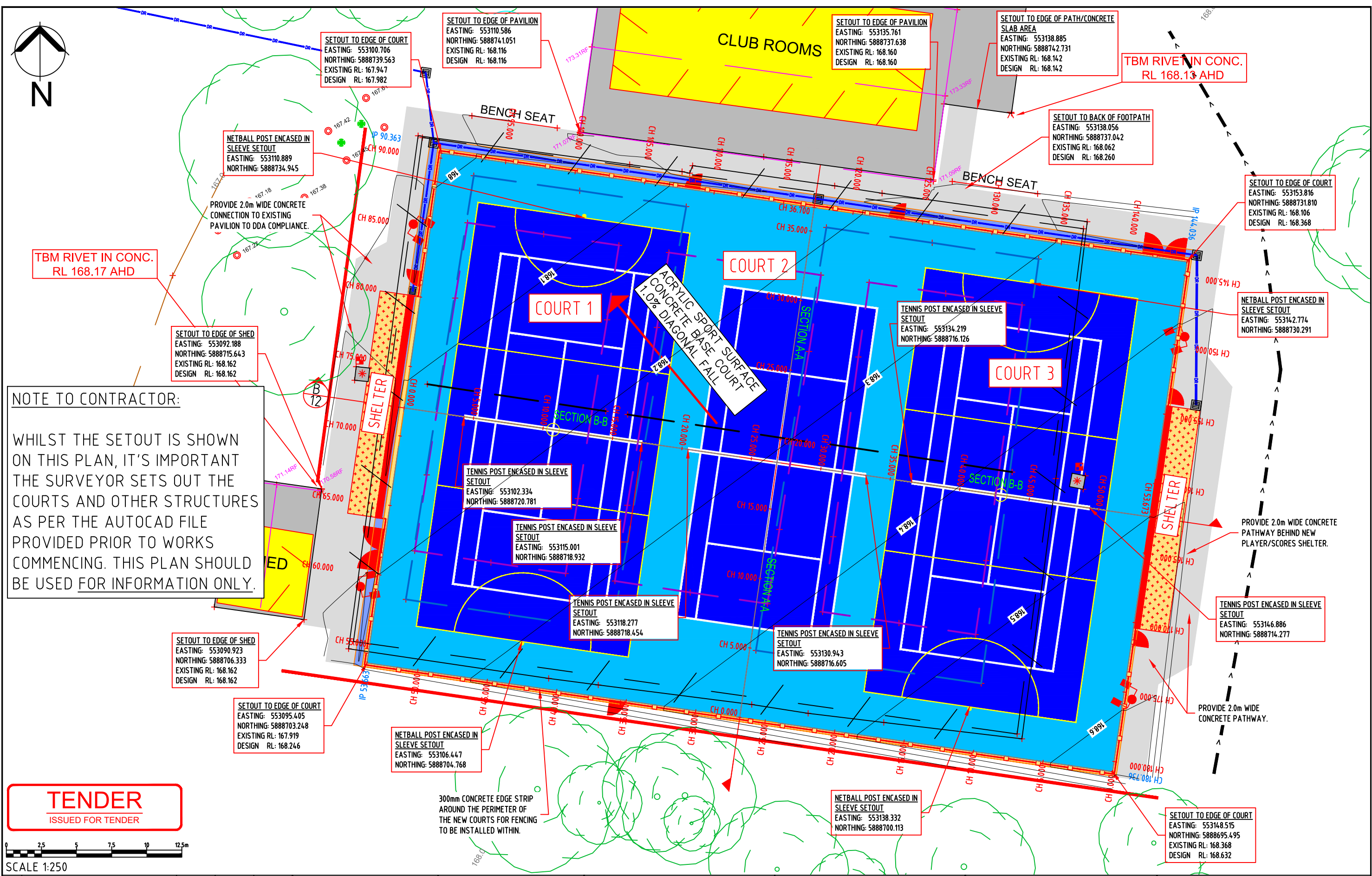
				DESIGNED:	DATE:	31-10-2022			PROJECT:	CIVIL DRAWINGS			
				DRAWN:	SHEET SIZE:	A3			PROJECT:	HARROW RECREATION RESERVE, HARROW - PROPOSED REDEVELOPMENT WORKS OF EXISTING COURTS - 2 MULTI PURPOSE NETBALL/TENNIS & 1 TENNIS COURT		DRAWING TITLE:	2240-08
				CHECKED:	G. DEVENISH	SCALE:			N/A		DRAINAGE PIT, FOOTPATH AND FLUSH OUT RISER DETAILS		
A				ISSUED FOR COMMENTS	G.DEVENISH	04.11.22			APPROVED:	G. DEVENISH		SHEET: 8 of 29	



TYPICAL PROPOSED 16.0 x 2.0m
SHELTER AND SEATING

TENDER
ISSUED FOR TENDER






				DESIGNED:	DATE:	31-10-2022		CLIENT: 	PROJECT: HARROW RECREATION RESERVE, HARROW - PROPOSED REDEVELOPMENT WORKS OF EXISTING COURTS - 2 MULTI PURPOSE NETBALL/TENNIS & 1 TENNIS COURT	CIVIL DRAWINGS	
				DRAWN:	SHEET SIZE:	A3				DRAWING TITLE: 2240-09	
				CHECKED:	G. DEVENISH	SCALE:				TYPICAL 16x2.0m SHELTER	
A	ISSUED FOR COMMENTS	G.DEVENISH	04.1122	APPROVED:	G. DEVENISH	N/A				SHEET: 9 of 29	REVISION: A

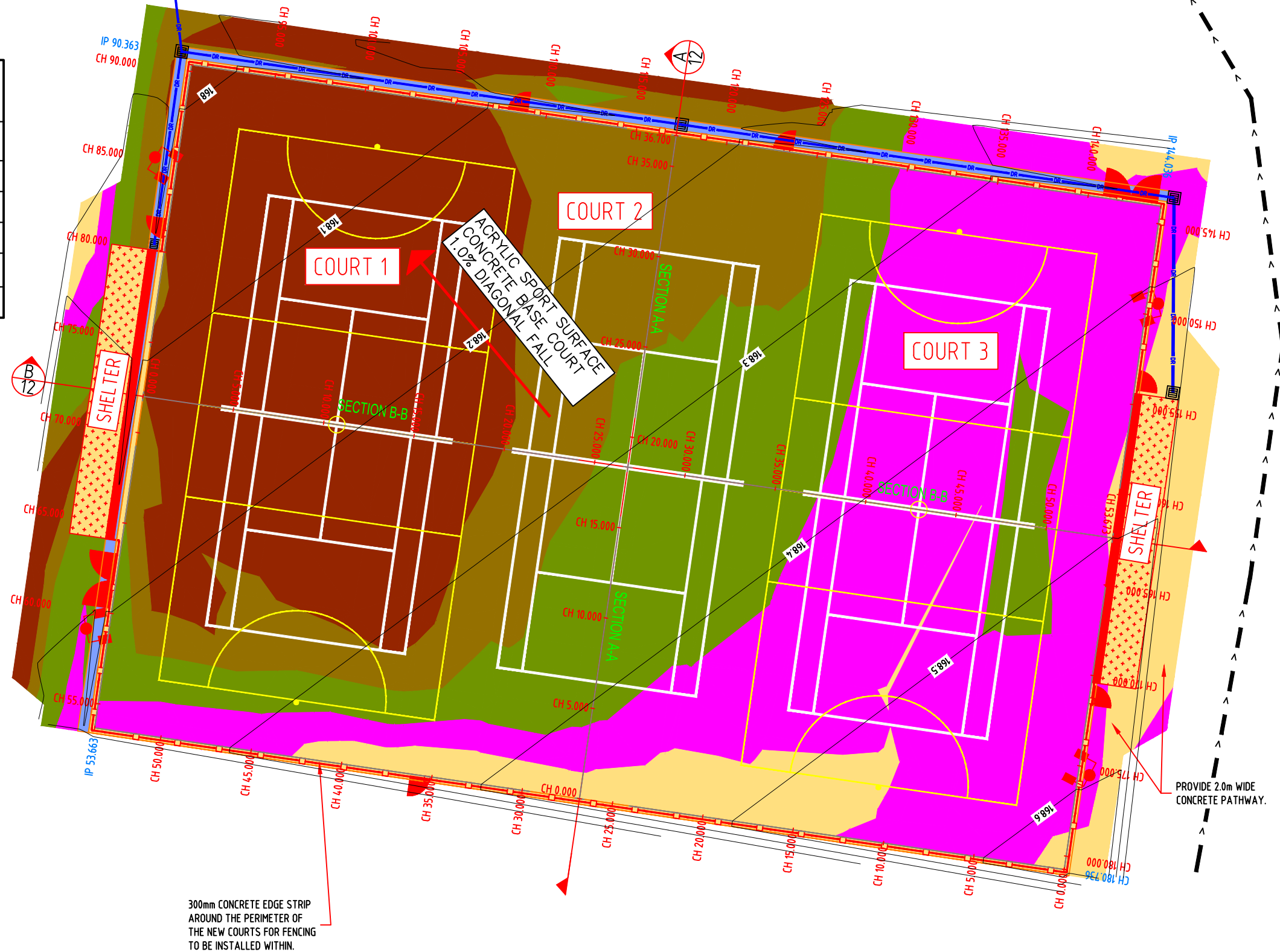


DESIGNED:		DATE: 31-10-2022			CLIENT:		PROJECT:		CIVIL DRAWINGS			
DRAWN:		SHEET SIZE: A3					HARROW RECREATION RESERVE, HARROW		DRAWING TITLE: 2240-10		COURT PERIMETER SETOUT & ALIGNMENT PLAN	
CHECKED: G. DEVENISH		SCALE: 1:250 @ A3					- PROPOSED REDEVELOPMENT WORKS OF		EXISTING COURTS - 2 MULTI PURPOSE		NETBALL/TENNIS & 1 TENNIS COURT	
APPROVED: G. DEVENISH								SHEET: 10 of 29		REVISION: A		



Levels Table

No.	Min. Depth	Max. Depth	Colour	Range Volume
1	-0.466	-0.330		16.59m ³
2	-0.330	-0.290		4.3.61m ³
3	-0.290	-0.190		14.2.85m ³
4	-0.190	-0.120		138.00m ³
5	-0.120	-0.00		259.13m ³



TENDER
ISSUED FOR TENDER



SCALE 1:250

A	ISSUED FOR COMMENTS	G.DEVENISH	04.11.22

DESIGNED:	DATE:	31-10-2022
DRAWN:	SHEET SIZE:	A3
CHECKED:	G. DEVENISH	SCALE:
APPROVED:	G. DEVENISH	1:250 @ A3

IDWALA
BUILT FOR SPORT

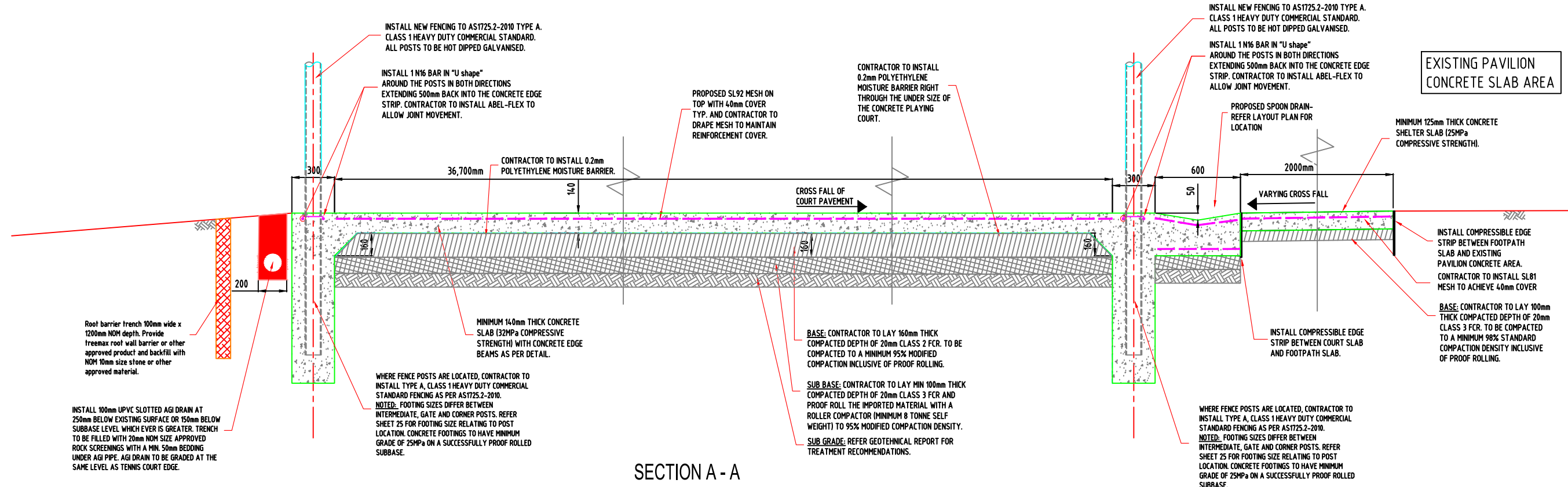
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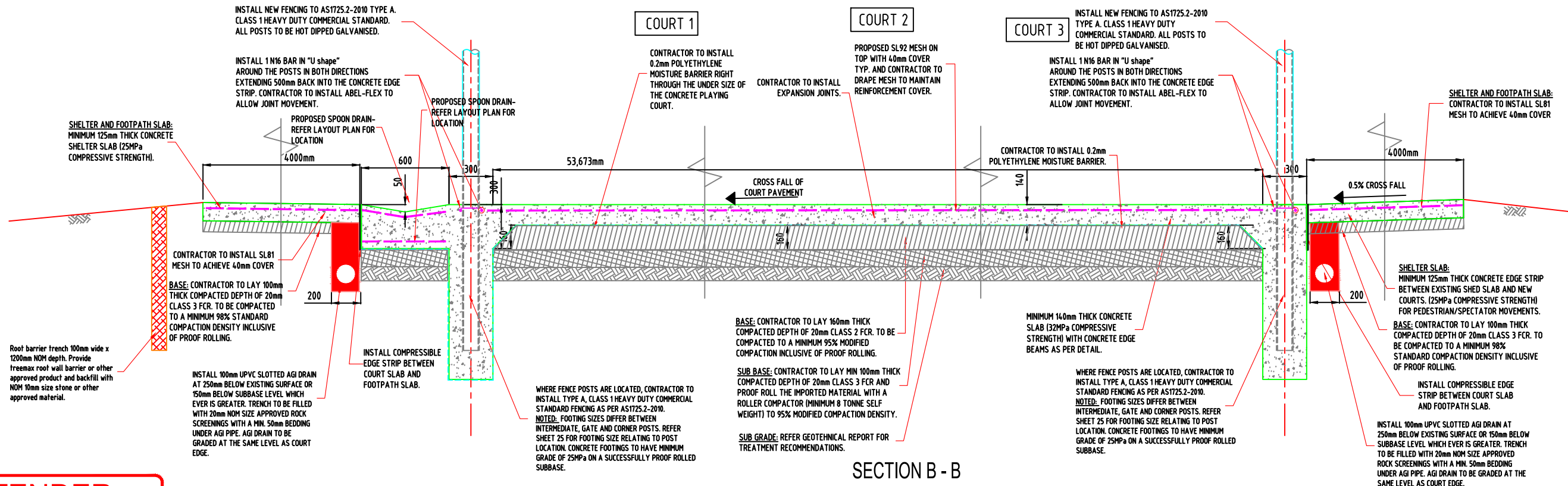
WEST WIMMERA SHIRE COUNCIL

PROJECT:
HARROW RECREATION RESERVE, HARROW
- PROPOSED REDEVELOPMENT WORKS OF
EXISTING COURTS - 2 MULTI PURPOSE
NETBALL/TENNIS & 1 TENNIS COURT

CIVIL DRAWINGS	
DRAWING TITLE: 2240-11	
CUT AND FILL PLAN	
SHEET: 11 of 29	REVISION: A



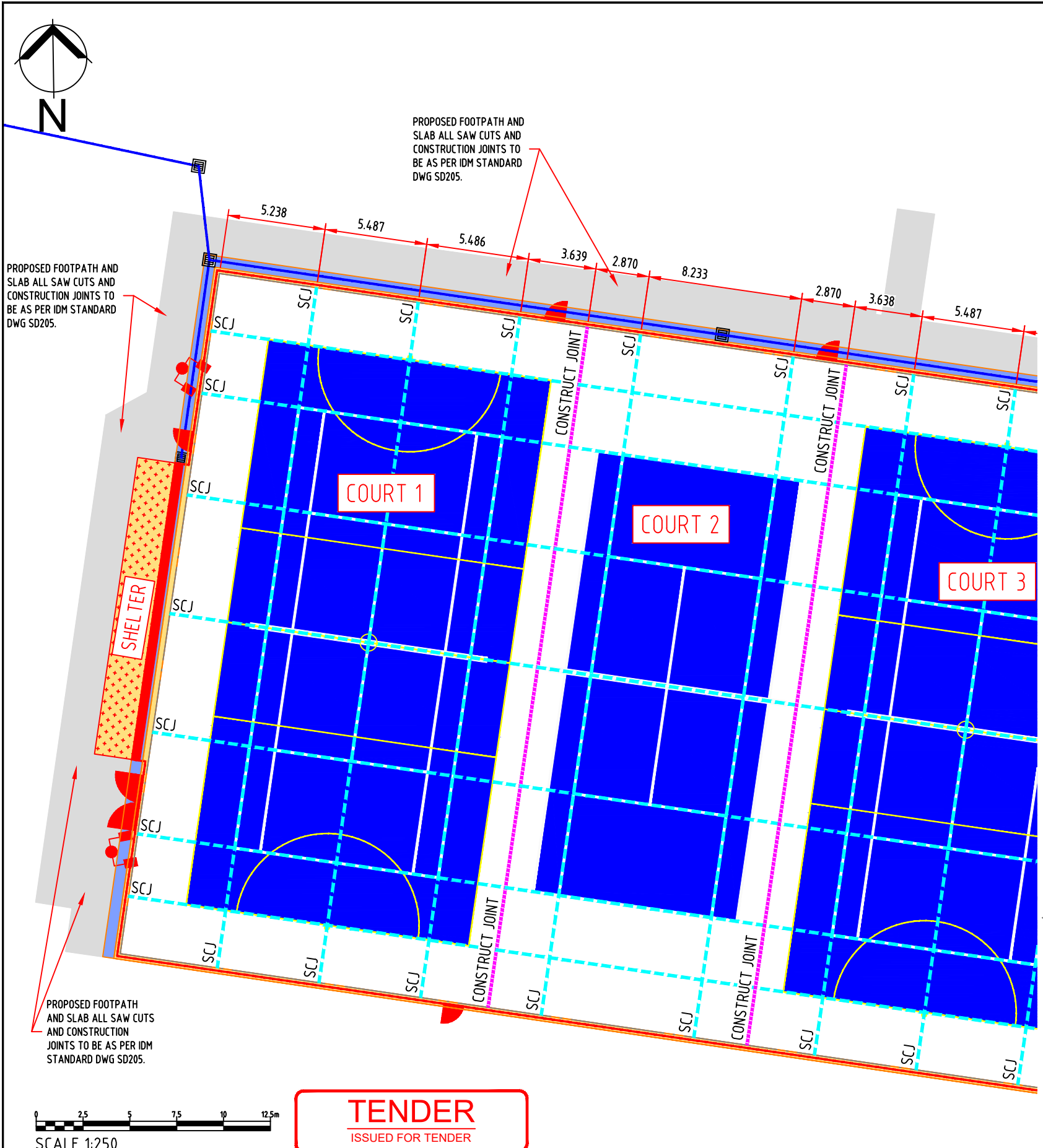
SECTION A - A



SECTION B - B

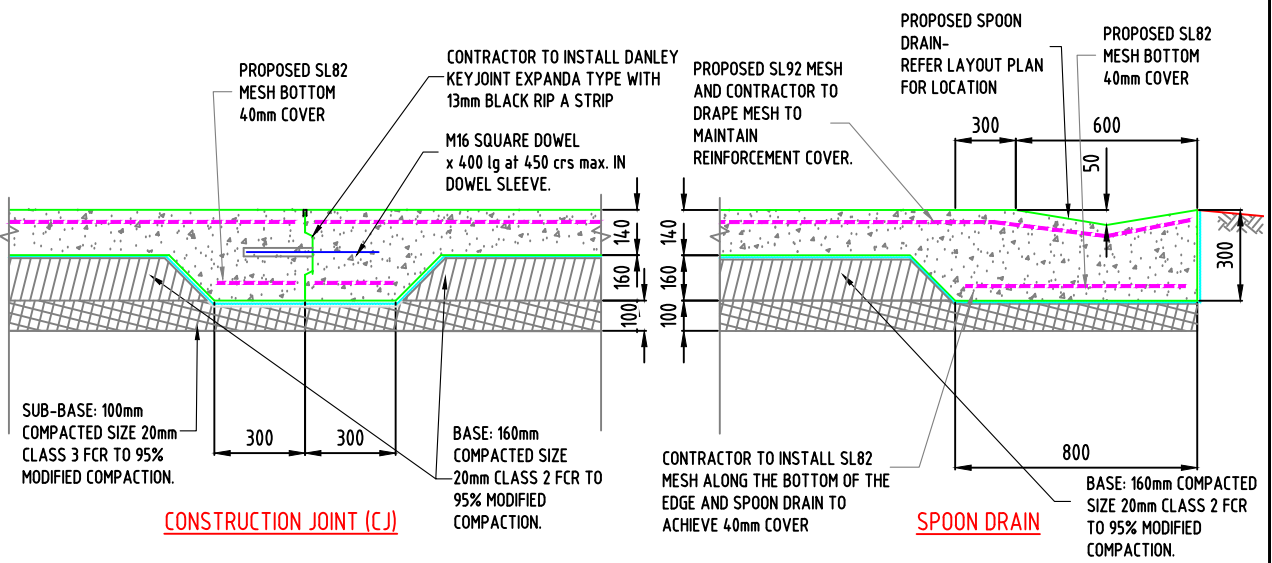
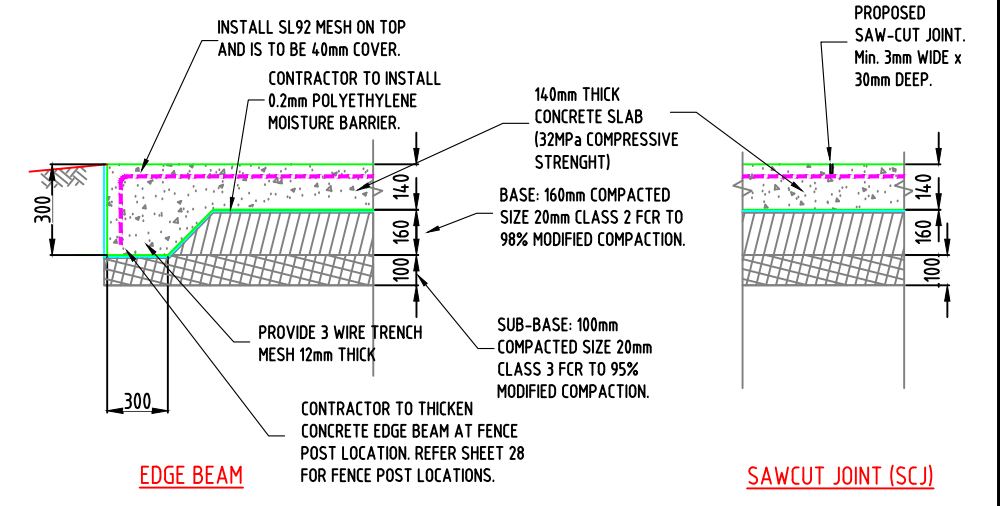
TENDER
ISSUED FOR TENDER

		DESIGNED:	DATE:	31-10-2022			PROJECT: HARROW RECREATION RESERVE, HARROW - PROPOSED REDEVELOPMENT WORKS OF EXISTING COURTS - 2 MULTI PURPOSE NETBALL/TENNIS & 1 TENNIS COURT	CIVIL DRAWINGS	
		DRAWN:	SHEET SIZE:	A3				DRAWING TITLE: 2240-12	
		CHECKED:	G. DEVENISH	SCALE:				PAVEMENT MAKE UP PLAN	
A	ISSUED FOR COMMENTS	APPROVED:	G. DEVENISH	04.12.22				SHEET: 12 of 29	REVISION: A

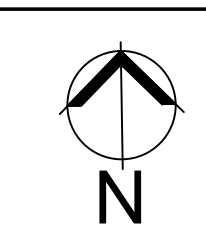
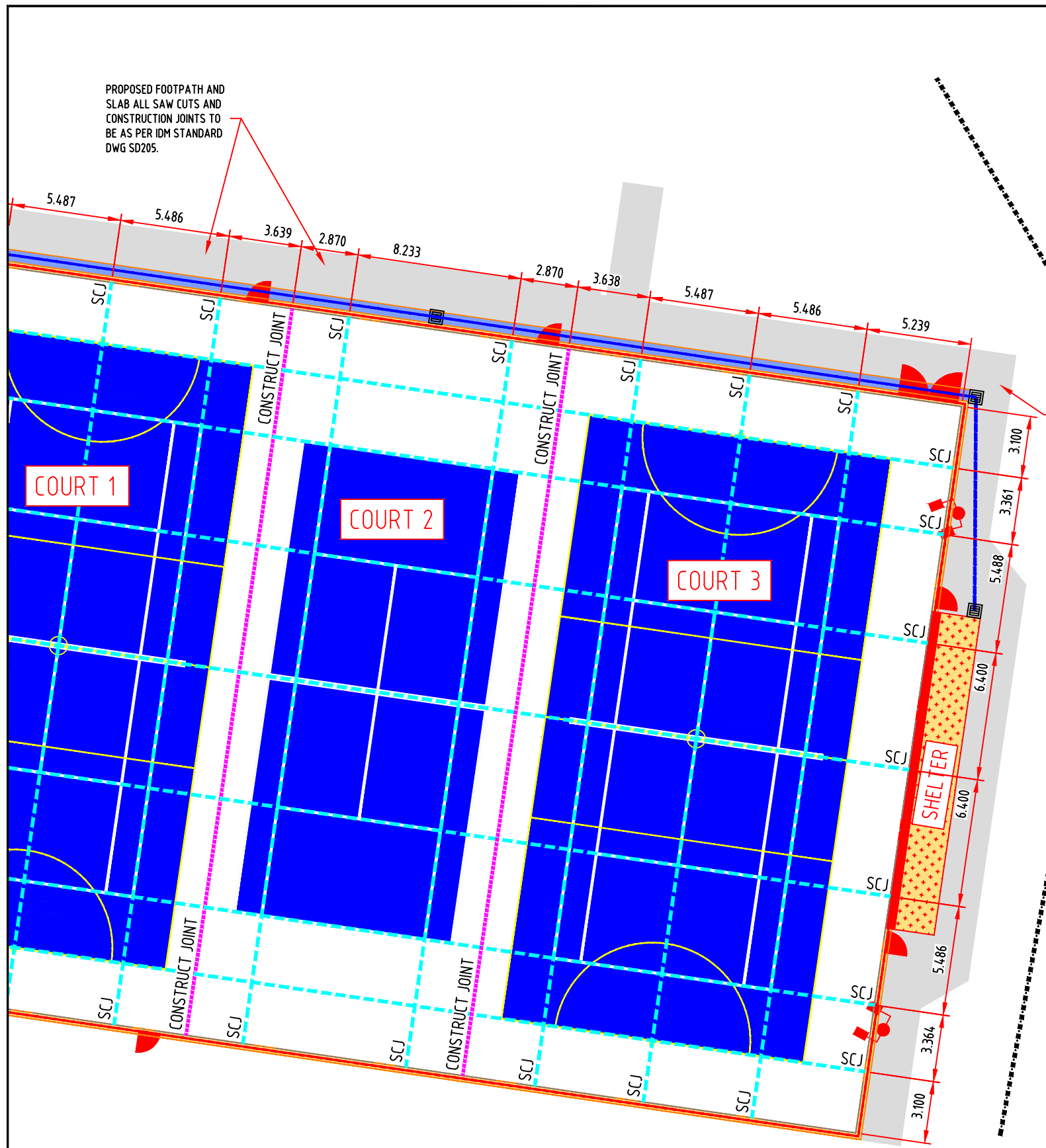


CONSTRUCTION MATERIALS

1. CONCRETE SLAB TO BE MINIMUM OF 32MPa COMPRESSIVE STRENGTH WITH A MAXIMUM AGGREGATE SIZE OF 20mm AND A SLUMP OF 80mm, UNLESS SPECIFIED OTHERWISE. AT NO POINT THE CONTRACTOR IS TO ADD WATER AFTER DESPATCH FROM THE CONCRETE PLANT.
2. SITE IS TO BE SET OUT AND BOXING IS PLACED AROUND THE PERIMETER TO CONTAIN THE CONCRETE AT TIME OF POUR. FINISHED SLAB HEIGHT AND GRADING TO BE CONFIRMED BY A QUALIFIED SURVEYOR TO MAKE SURE IT'S AT DESIGN HEIGHTS. COUNCIL SUPERINTENDENT TO BE PRESENT WHEN THIS OCCURS. THE FINAL TOLERANCE ON THE FINISHED SURFACE SHALL BE +/- 3mm SUCH THAT NO POINT ON THE COURT SHALL VARY GREATER THAN 3mm UNDER A 3.0m STRAIGHT EDGE ON ANY TWO POINTS ON THE COURT.
3. STEEL MESH TO BE PLACED OVER THE CONSTRUCTION FILM IN SHEETS, EACH SHEET OVERLAPPED BY ONE SQUARE (200mm) AND TIED WITH TIE WIRE.
4. CONTRACTOR TO PROVIDE 0.2mm THICK POLYETHYLENE VAPOUR BARRIER UNDER THE ENTIRE CONCRETE SLAB AREA TO PREVENT WATER PENETRATION.
5. AT NO POINT CONTRACTOR IS TO ADD CURING AGENTS AND OTHER ADDITIVES AS IT CONTRIBUTES TO POOR ADHESION OF THE ACRYLIC SURFACE.
6. A SERIES OF 3mm x 30mm SAW CUTS SHALL BE CUT AS PER PLAN TO MINIMISE RANDOM CRACKING.
7. A MINIMUM 28 DAYS OF CURING OF THE CONCRETE SHALL BE ALLOWED PRIOR TO APPLYING THE ACRYLIC SURFACE.
8. CONTRACTOR MUST ENSURE PROPER CURING OF THE CONCRETE PAVEMENT ON HOT DAYS OVER 23 DEGREES CELSIUS AND/OR WINDY DAYS AS PER CGAA APRIL 2006 - CURING OC CONCRETE DATA SHEET.



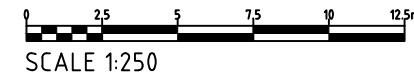
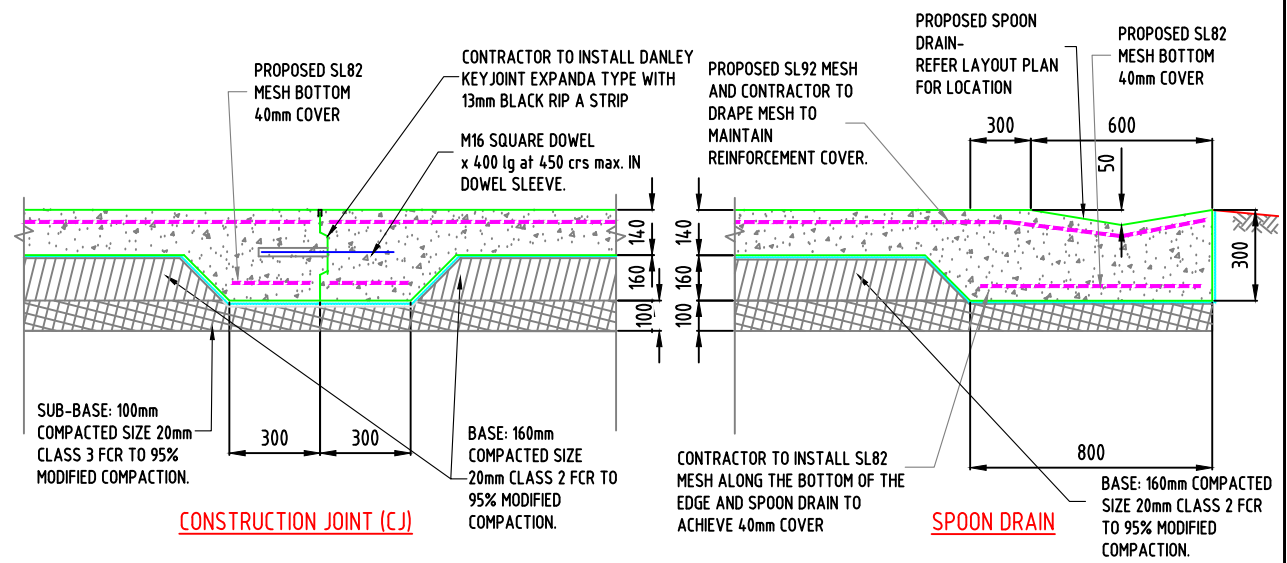
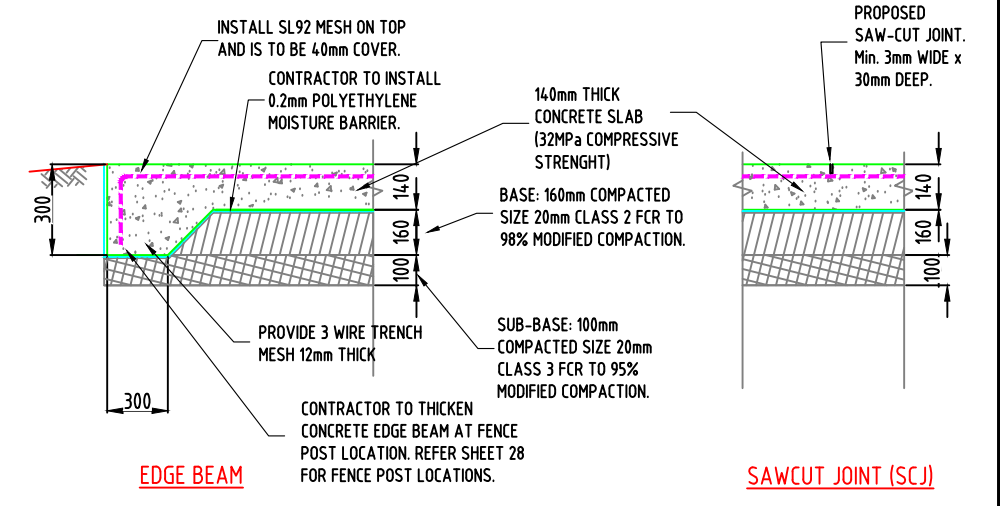
DESIGNED:		DATE: 31-10-2022		IDWALA BUILT FOR SPORT	CLIENT: 	PROJECT:		CIVIL DRAWINGS	
DRAWN:		SHEET SIZE: A3				HARROW RECREATION RESERVE, HARROW		DRAWING TITLE: 2240-13	
CHECKED: G. DEVENISH		SCALE:				- PROPOSED REDEVELOPMENT WORKS OF		CONCRETE SAW CUT & CONSTRUCTION JOINT PLAN - SHEET 1 of 2	
APPROVED: G. DEVENISH						EXISTING COURTS - 2 MULTI PURPOSE		SHEET: 13 of 29	
A	ISSUED FOR COMMENTS	G.DEVENISH	04.1122			NETBALL/TENNIS & 1 TENNIS COURT		REVISION: A	



PROPOSED FOOTPATH AND SLAB ALL SAW CUTS AND CONSTRUCTION JOINTS TO BE AS PER IDM STANDARD DWG SD205.

CONSTRUCTION MATERIALS

1. CONCRETE SLAB TO BE MINIMUM OF 32MPa COMPRESSIVE STRENGTH WITH A MAXIMUM AGGREGATE SIZE OF 20mm AND A SLUMP OF 80mm, UNLESS SPECIFIED OTHERWISE. AT NO POINT THE CONTRACTOR IS TO ADD WATER AFTER DESPATCH FROM THE CONCRETE PLANT.
2. SITE IS TO BE SET OUT AND BOXING IS PLACED AROUND THE PERIMETER TO CONTAIN THE CONCRETE AT TIME OF POUR. FINISHED SLAB HEIGHT AND GRADING TO BE CONFIRMED BY A QUALIFIED SURVEYOR TO MAKE SURE IT'S AT DESIGN HEIGHTS. COUNCIL SUPERINTENDENT TO BE PRESENT WHEN THIS OCCURS. THE FINAL TOLERANCE ON THE FINISHED SURFACE SHALL BE +/- 3mm SUCH THAT NO POINT ON THE COURT SHALL VARY GREATER THAN 3mm UNDER A 3.0m STRAIGHT EDGE ON ANY TWO POINTS ON THE COURT.
3. STEEL MESH TO BE PLACED OVER THE CONSTRUCTION FILM IN SHEETS, EACH SHEET OVERLAPPED BY ONE SQUARE (200mm) AND TIED WITH TIE WIRE.
4. CONTRACTOR TO PROVIDE 0.2mm THICK POLYETHYLENE VAPOUR BARRIER UNDER THE ENTIRE CONCRETE SLAB AREA TO PREVENT WATER PENETRATION.
5. AT NO POINT CONTRACTOR IS TO ADD CURING AGENTS AND OTHER ADDITIVES AS IT CONTRIBUTES TO POOR ADHESION OF THE ACRYLIC SURFACE.
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8. CONTRACTOR MUST ENSURE PROPER CURING OF THE CONCRETE PAVEMENT ON HOT DAYS OVER 23 DEGREES CELSIUS AND/OR WINDY DAYS AS PER CGAA APRIL 2006 - CURING OC CONCRETE DATA SHEET.



TENDER
ISSUED FOR TENDER

			DESIGNED:	DATE:	31-10-2022			PROJECT: HARROW RECREATION RESERVE, HARROW - PROPOSED REDEVELOPMENT WORKS OF EXISTING COURTS - 2 MULTI PURPOSE NETBALL/TENNIS & 1 TENNIS COURT	CIVIL DRAWINGS	
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			CHECKED:	SCALE:					CONCRETE SAW CUT & CONSTRUCTION JOINT PLAN - SHEET 2 of 2	
A	ISSUED FOR COMMENTS	G.DEVENISH	04.11.22	APPROVED:	G. DEVENISH				SHEET: 14 of 29	REVISION: A



PROPOSED DRAINAGE OUTFALL LOCATED JUST LEFT OF ACCESS TRACK TO EXISTING TENNIS COURTS. PROPOSED ROCK BEACHING SET IN MORTAR TO PREVENT SCOURING. WATER TO DISPERSE INTO EXISTING OPEN DRAIN.



225Ø STORMPRO SN8

WATER TANK

PROPOSED NEW CONCRETE PATHWAY/SLAB TO BE DOWELED INTO EXISTING PAVILION SLAB.

CLUB ROOMS

PROPOSED NEW 2000mm CONCRETE PATHWAY LINKING TO EXISTING DISABLED PARKING BAY. NEW CONCRETE PAVEMENT TO BE DOWELED INTO EXISTING.

600mm CONCRETE SPOON DRAIN

PROPOSED NEW 3600mm HIGH CHAIN MESH FENCING.

PROVIDE 2.0m WIDE CONCRETE CONNECTION TO EXISTING PAVILION TO DDA COMPLIANCE.

PROPOSED NEW 1350mm WIDE GATE BETWEEN TWO TENNIS COURTS.

PROPOSED NEW 1350mm WIDE GATE BETWEEN TWO TENNIS COURTS.

600mm CONCRETE SPOON DRAIN

PROPOSED NEW LIGHT TOWER WITH NEW COMPETITION STANDARD LED FITTINGS.

PROVIDE 2.0m WIDE CONCRETE CONNECTION TO EXISTING PAVILION TO DDA COMPLIANCE.

INSTALL AGI DRAINAGE LINE ON THE OUTSIDE OF THE NEW PATHWAY AND DISCHARGE INTO P2.

CONNECT SHELTER DOWN PIPE INTO NEW P6 GRATED JUNCTION PIT.

PROVIDE 2.0m WIDE CONCRETE PATHWAY BEHIND NEW PLAYER/SCORES SHELTER.

PROPOSED NEW 16.0m x 2.0m WIDE SHELTER WITH 450mm OVERHANG.

600mm CONCRETE SPOON DRAIN

300mm CONCRETE EDGE STRIP

EXISTING SHED TO BE RETAINED AND PROTECTED DURING CONSTRUCTION PHASE.

PROVIDE 2.0m WIDE CONCRETE CONNECTION TO EXISTING BUILDING.

225Ø STORMPRO SN8

BENCH SEAT

150Ø STORMPRO SN8

BENCH SEAT

150Ø STORMPRO SN8

COURT 1

COURT 2

COURT 3

ACRYLIC SPORT SURFACE CONCRETE BASE COURT 1.0% DIAGONAL FALL

SHELTER

SHELTER

C	ADDITIONAL PIT ADDED	G.DEVENISH	18.11.22
B	CUT OFF DRAIN AND OUT FALL AMENDED	G.DEVENISH	08.11.22
A	ISSUED FOR COMMENTS	G.DEVENISH	28.10.22

DESIGNED:	DATE:	28-10-2022
DRAWN:	SHEET SIZE:	A3
CHECKED:	G. DEVENISH	SCALE:
APPROVED:	G. DEVENISH	1:250 @ A3

IDWALA
BUILT FOR SPORT

CLIENT:  WEST WIMMERA SHIRE COUNCIL

PROJECT: HARROW RECREATION RESERVE, HARROW - PROPOSED REDEVELOPMENT WORKS OF EXISTING COURTS - 2 MULTI PURPOSE NETBALL/TENNIS & 1 TENNIS COURT

CIVIL DRAWINGS	
DRAWING TITLE: 2240-15	
DRAINAGE LAYOUT PLAN - SHEET 1 of 2	
SHEET: 15 of 29	REVISION: C



C	ADDITIONAL PIT ADDED	G.DEVENISH	18.11.22
B	CUT OFF DRAIN AND OUT FALL AMENDED	G.DEVENISH	08.11.22
A	ISSUED FOR COMMENTS	G.DEVENISH	28.10.22

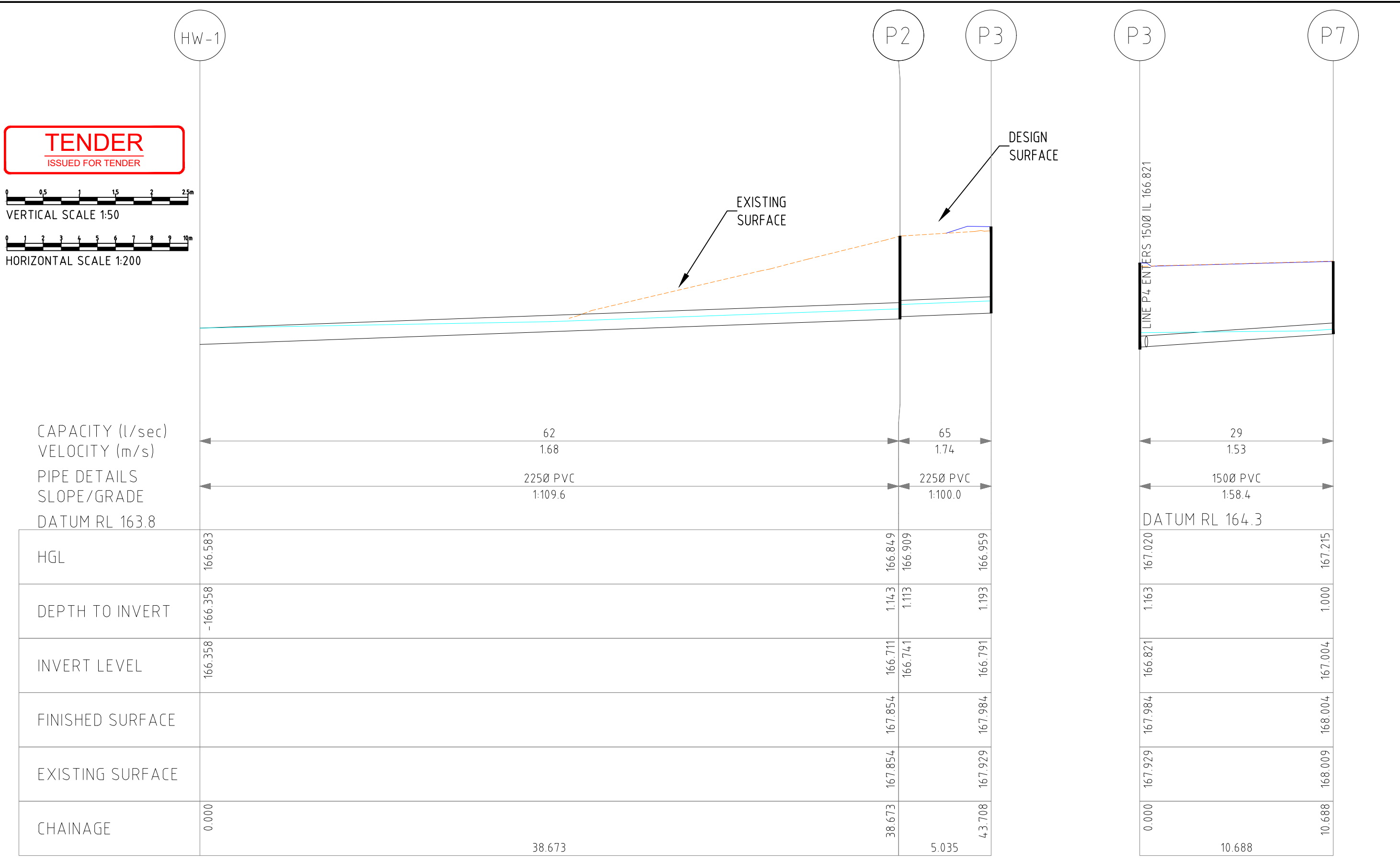
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DRAWN:	SHEET SIZE:	A3
CHECKED:	G. DEVENISH	SCALE:
APPROVED:	G. DEVENISH	1:250 @ A3

IDWALA
BUILT FOR SPORT

CLIENT:  WEST WIMMERA SHIRE COUNCIL

PROJECT:
HARROW RECREATION RESERVE, HARROW
- PROPOSED REDEVELOPMENT WORKS OF
EXISTING COURTS - 2 MULTI PURPOSE
NETBALL/TENNIS & 1 TENNIS COURT

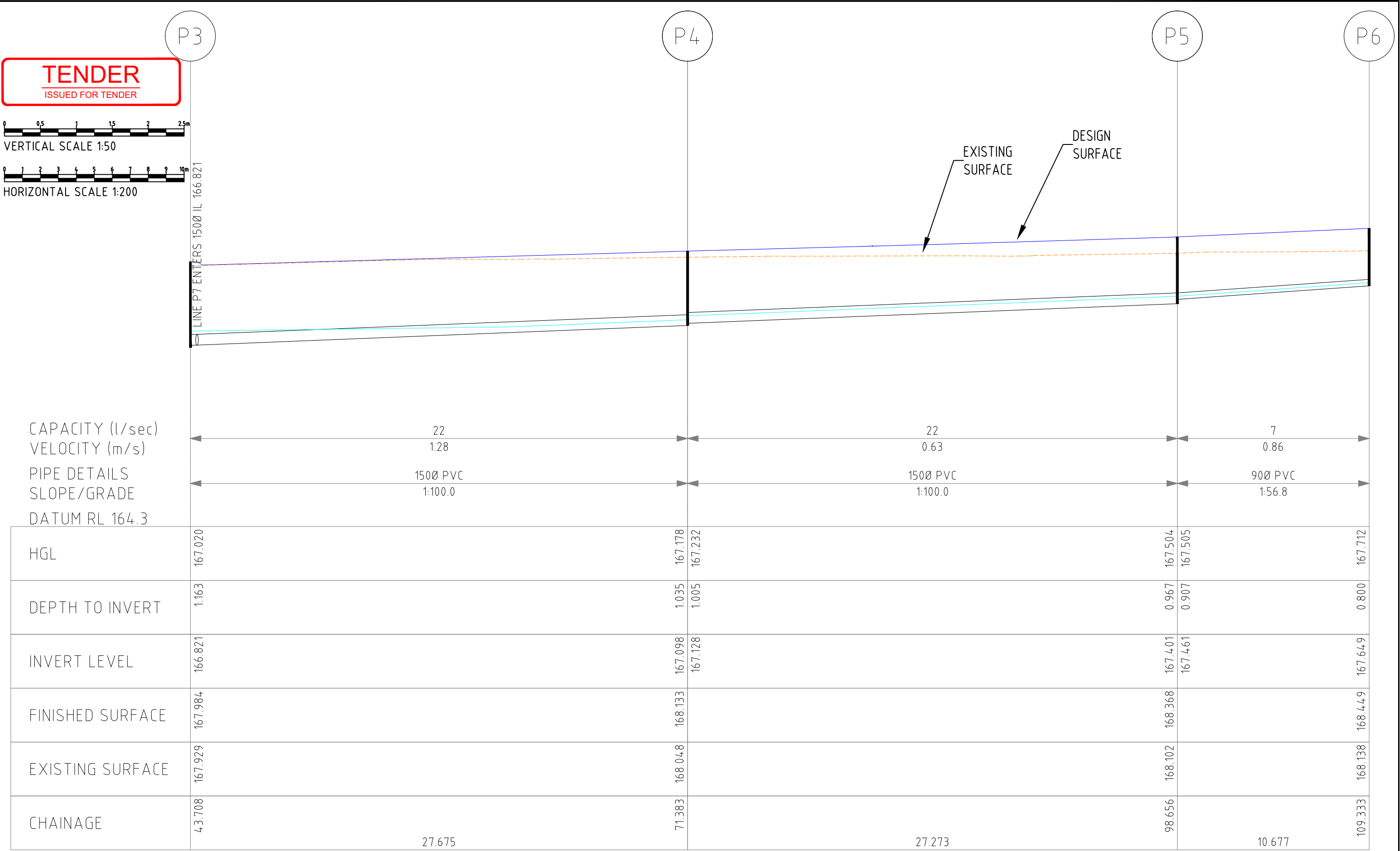
CIVIL DRAWINGS	
DRAWING TITLE: 2240-16	
DRAINAGE LAYOUT PLAN - SHEET 2 of 2	
SHEET: 16 of 29	REVISION: C



DRAINAGE LONGITUNDINAL SECTION FOR LINE 1

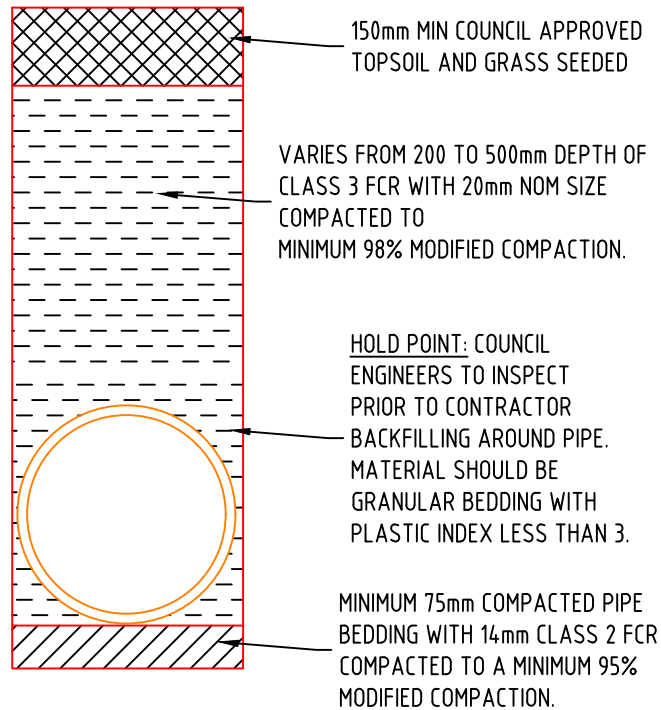
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C	ADDITIONAL PIT ADDED	G.DEVENISH	18.11.22	SCALE:				DRAINAGE LONGITUNDINAL SECTION - SHEET 1 of 2	
B	OUTFALL SHIFTED	G.DEVENISH	08.11.22					APPROVED: G. DEVENISH	
A	ISSUED FOR COMMENTS	G.DEVENISH	04.11.22			SHEET: 17 of 29	REVISION: C		

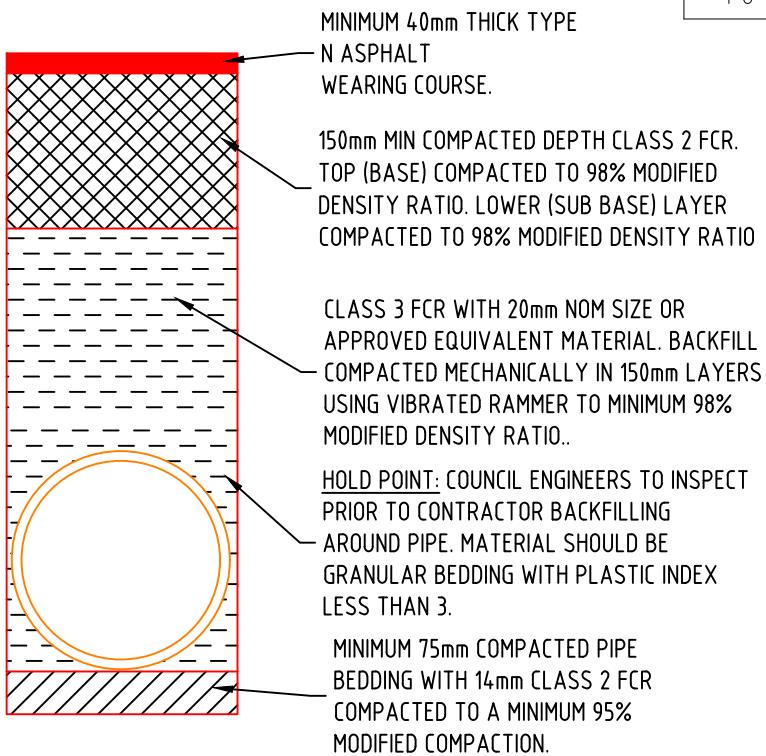


DRAINAGE LONGITUNDINAL SECTION FOR LINE 1

DESIGNED:		DATE: 01-11-2022			CLIENT:	PROJECT: HARROW RECREATION RESERVE, HARROW - PROPOSED REDEVELOPMENT WORKS OF EXISTING COURTS - 2 MULTI PURPOSE NETBALL/TENNIS & 1 TENNIS COURT	CIVIL DRAWINGS	
DRAWN:		SHEET SIZE: A3					DRAWING TITLE: 2240 - 18	
CHECKED: G. DEVENISH		SCALE:					DRAINAGE LONGITUNDINAL SECTION - SHEET 2 of 2	
B	OUTFALL SHIFTED	G.DEVENISH	08.11.22	APPROVED: G. DEVENISH		SHEET: 18 of 29		REVISION: B
A	ISSUED FOR COMMENTS	G.DEVENISH	04.11.22					



TYPICAL BACKFILL WITHIN RESERVES



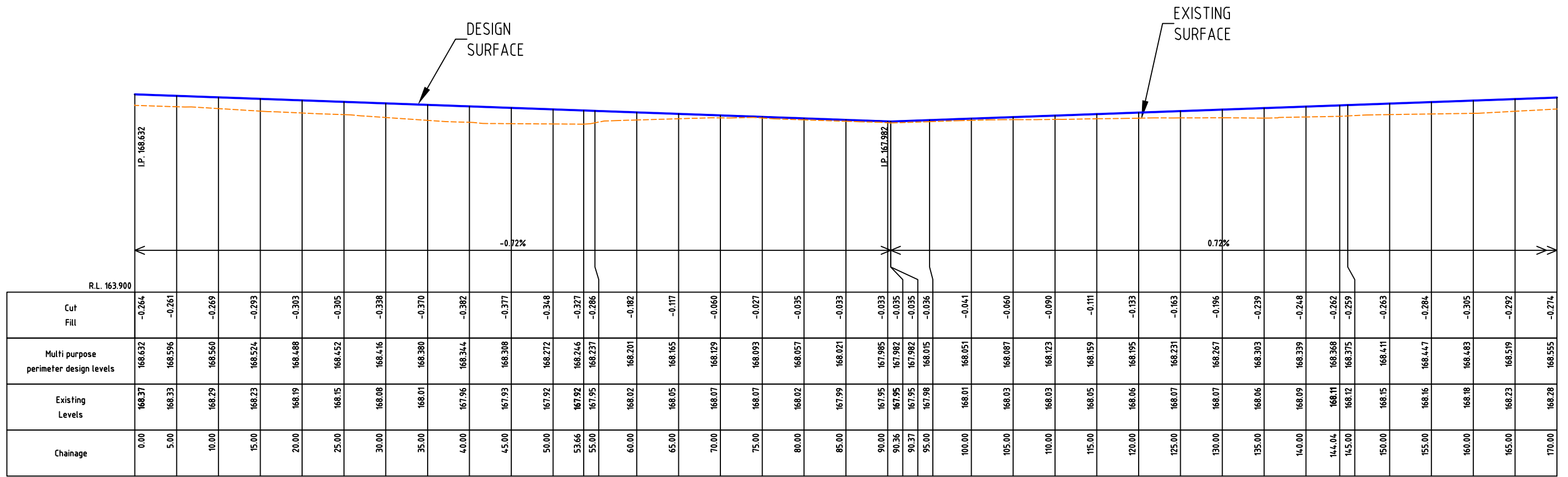
TYPICAL BACKFILL UNDER ROAD PAVEMENT

Pit Schedule - Drainage Layout - Harrow Recreation

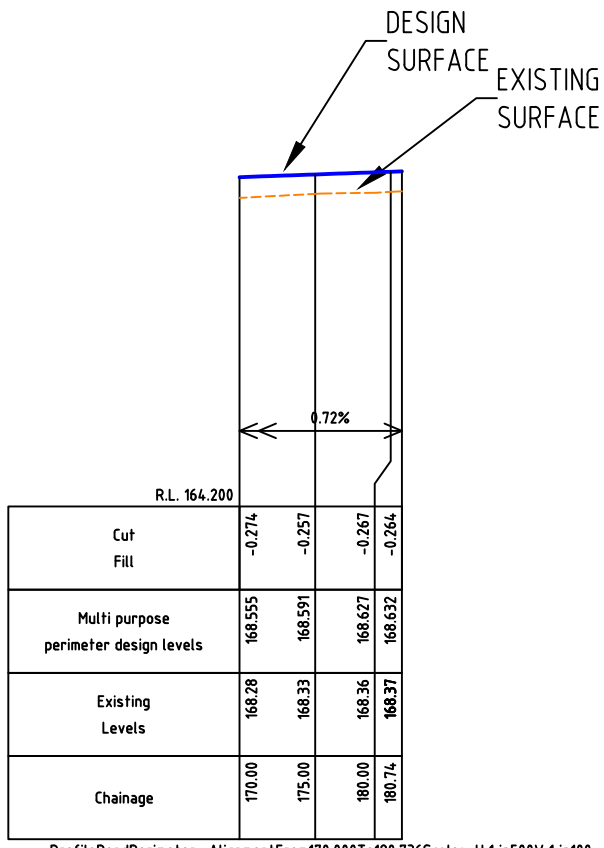
Pit No.	Pit Type	Pit Width-Internal (mm)	Pit Length-Internal (mm)	Outlet Diameter (mm)	Outlet Invert RL (m)	Inlet Diameter (mm)	Inlet Invert RL (m)	Pit Depth (m)	Pit Lid Level (m)	Easting (m)	Northing (m)	Comment
HW-1	HEADWALL					225	166.358			553061.76	5888753.293	
P2	GRATED JUNCTION PIT	450	450	225	166.711	225	166.741	1.143	167.854	553099.60	5888745.288	
P3	GRATED JUNCTION PIT	450	450	225	166.791	150	166.821	1.193	167.984	553100.17	5888740.286	
P4	GRATED JUNCTION	450	450	150	167.098	150	167.128	1.035	168.133	553127.55	5888736.288	
P7	GRATED JUNCTION PIT	450	450	150	167.004			1.000	168.004	553098.66	5888729.705	
P5	JUNCTION PIT	450	450	150	167.401	90	167.461	0.967	168.368	553154.53	5888732.275	
P6	JUNCTION PIT	450	450	90	167.649			0.800	168.449	553154.46	5888721.598	

TENDER
ISSUED FOR TENDER

				DESIGNED:	DATE: 03-11-2022		CLIENT:	PROJECT: HARROW RECREATION RESERVE, HARROW - PROPOSED REDEVELOPMENT WORKS OF EXISTING COURTS - 2 MULTI PURPOSE NETBALL/TENNIS & 1 TENNIS COURT	CIVIL DRAWINGS	
				DRAWN:	SHEET SIZE: A3				DRAWING TITLE: 2240-19 DRAINAGE PIT SCHEDULE & BACKFILL DETAIL	
B	ADDITIONAL PIT ADDED	G.DEVENISH	18.11.22	CHECKED: G. DEVENISH	SCALE:				SHEET: 19 of 29	
A	ISSUED FOR COMMENTS	G.DEVENISH	04.11.22	APPROVED: G. DEVENISH						



ProfileRoadPerimeter_AlignmentFrom0.000To170.000Scales: H 1 in500V 1 in100



ProfileRoadPerimeter_AlignmentFrom170.000To180.736Scales: H 1 in500V 1 in100

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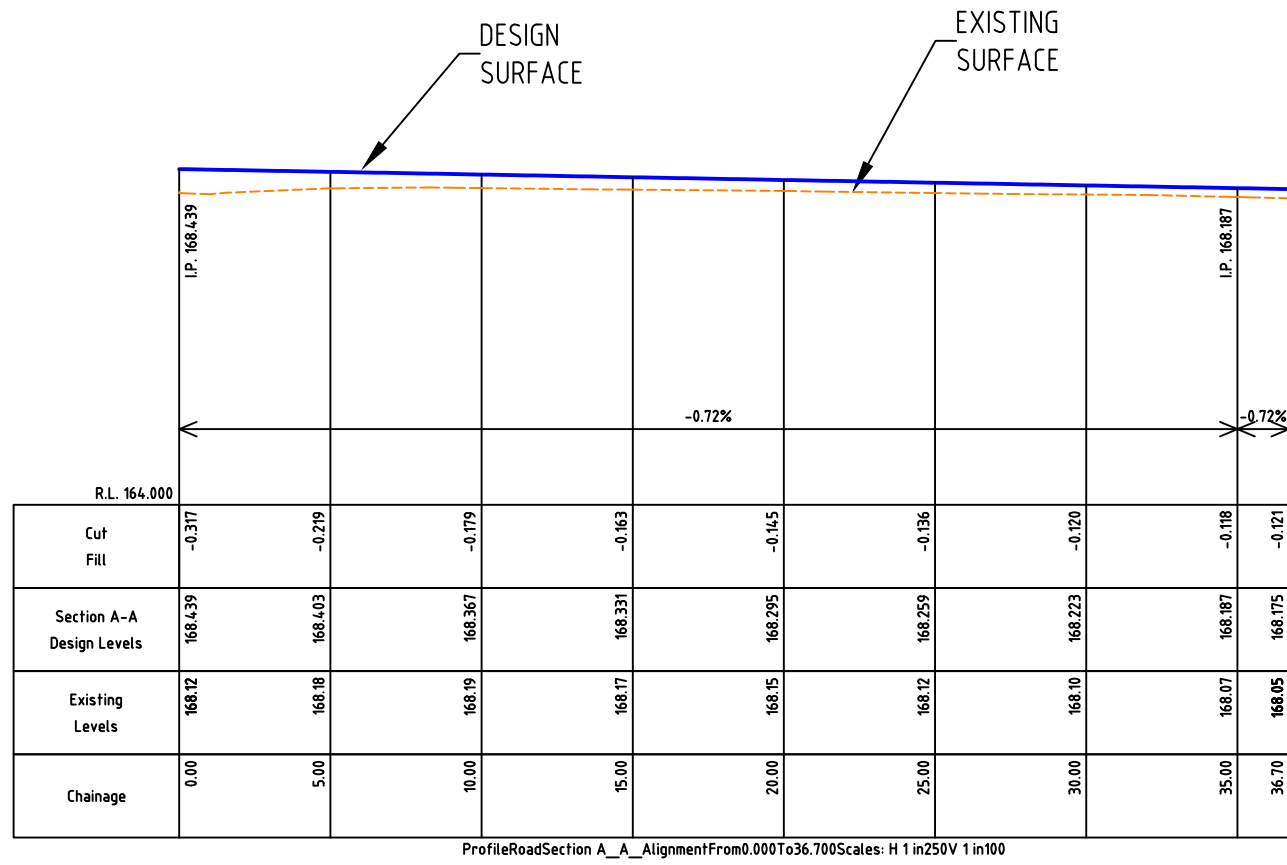


VERTICAL SCALE 1:100



HORIZONTAL SCALE 1:500

			DESIGNED:	DATE: 03-11-2022			PROJECT:	CIVIL DRAWINGS
			DRAWN:	SHEET SIZE: A3			HARROW RECREATION RESERVE, HARROW - PROPOSED REDEVELOPMENT WORKS OF EXISTING COURTS - 2 MULTI PURPOSE NETBALL/TENNIS & 1 TENNIS COURT	DRAWING TITLE: 2240-20 MULTI PURPOSE NETBALL/TENNIS/ COURT PERIMETER LONGITUDINAL SECTION
			CHECKED: G. DEVENISH	SCALE:				
A	ISSUED FOR COMMENTS	G.DEVENISH	04.11.22	APPROVED: G. DEVENISH				



TENDER
ISSUED FOR TENDER

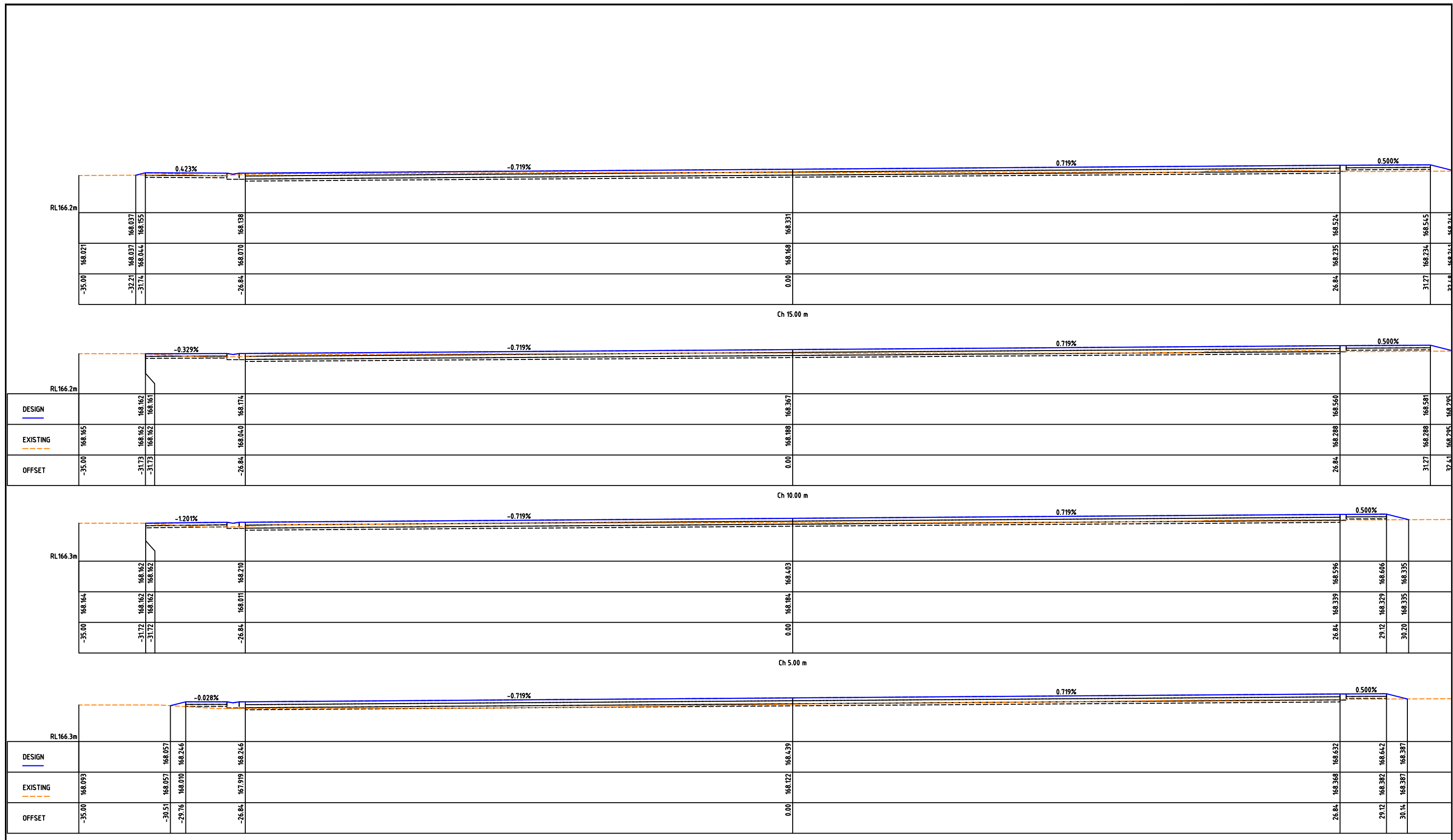


VERTICAL SCALE 1:100



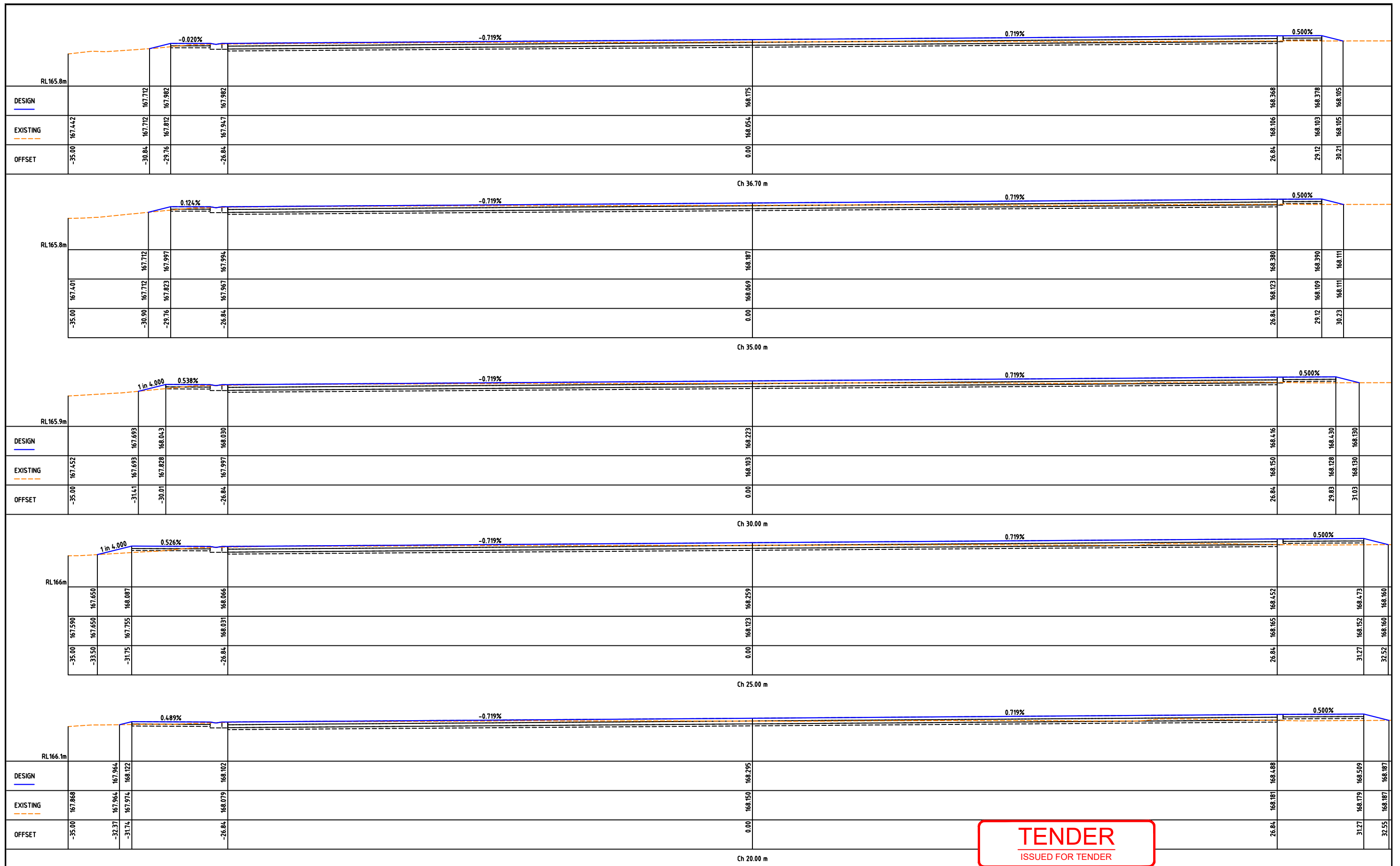
HORIZONTAL SCALE 1:250

			DESIGNED:	DATE: 03-11-2022			PROJECT: HARROW RECREATION RESERVE, HARROW - PROPOSED REDEVELOPMENT WORKS OF EXISTING COURTS - 2 MULTI PURPOSE NETBALL/TENNIS & 1 TENNIS COURT	CIVIL DRAWINGS			
			DRAWN:	SHEET SIZE: A3				DRAWING TITLE: 2240-21		SECTION A-A	
			CHECKED: G. DEVENISH	SCALE:				LONGITUDINAL SECTION		SHEET: 21 of 29	
A	ISSUED FOR COMMENTS	G.DEVENISH	04.11.22	APPROVED: G. DEVENISH				REVISION: A			



TENDER
ISSUED FOR TENDER

				DESIGNED:	DATE: 03-11-2022		CLIENT:	PROJECT: HARROW RECREATION RESERVE, HARROW - PROPOSED REDEVELOPMENT WORKS OF EXISTING COURTS - 2 MULTI PURPOSE NETBALL/TENNIS & 1 TENNIS COURT	CIVIL DRAWINGS	
				DRAWN:	SHEET SIZE: A3				DRAWING TITLE: 2240-22	
				CHECKED: G. DEVENISH	SCALE: NOT TO SCALE				SECTION A-A CROSS SECTION - SHEET 1 of 2	
A	ISSUED FOR COMMENTS	G.DEVENISH	04.11.22	APPROVED: G. DEVENISH					SHEET: 22 of 29	REVISION: A



TENDER
ISSUED FOR TENDER

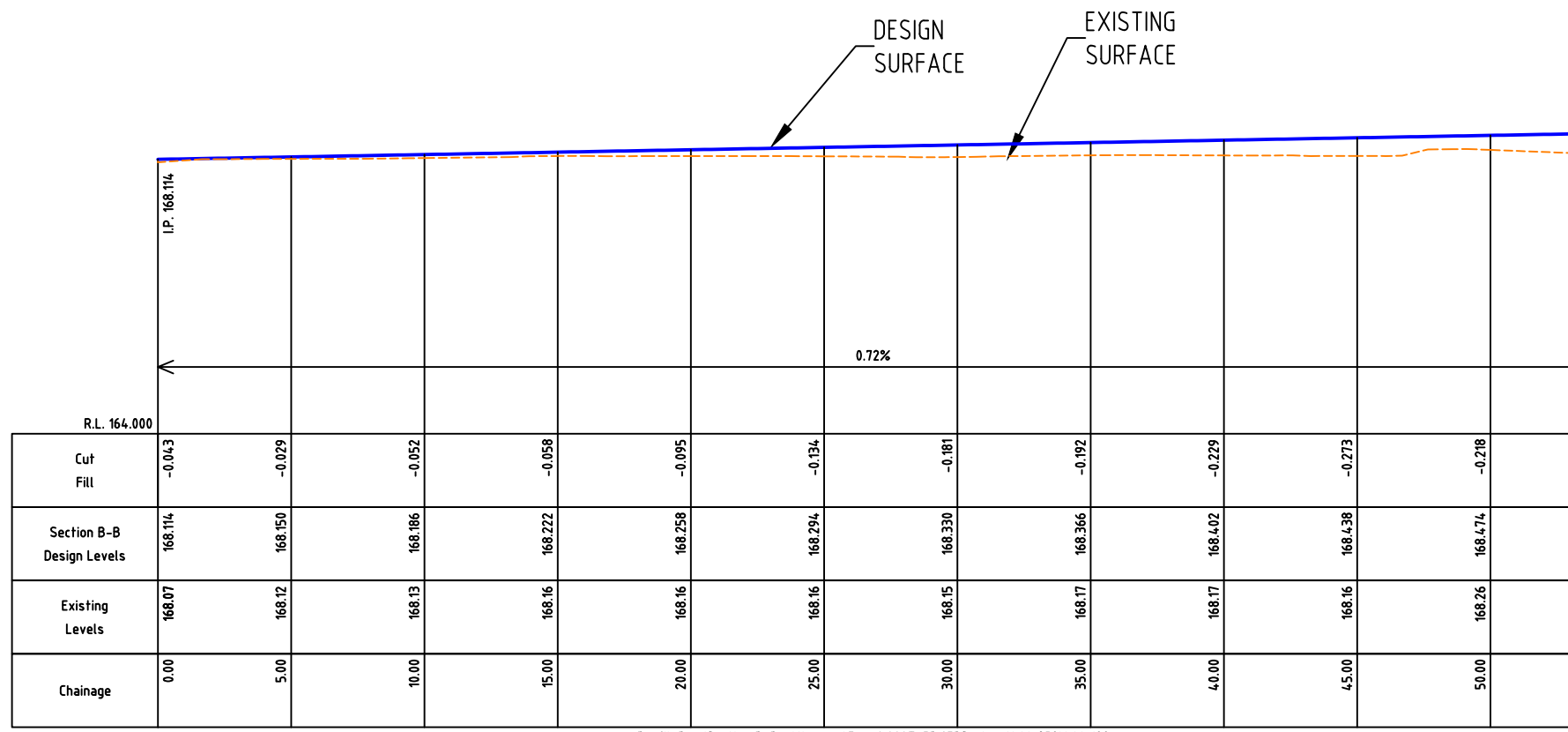
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A	ISSUED FOR COMMENTS	G.DEVENISH	04.11.22

PROJECT:
HARROW RECREATION RESERVE, HARROW
- PROPOSED REDEVELOPMENT WORKS OF
EXISTING COURTS - 2 MULTI PURPOSE
NETBALL/TENNIS & 1 TENNIS COURT

CIVIL DRAWINGS

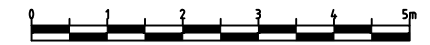
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SECTION A-A
CROSS SECTION - SHEET 2 of 2

SHEET: 23 of 29 REVISION: A



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TENDER
ISSUED FOR TENDER

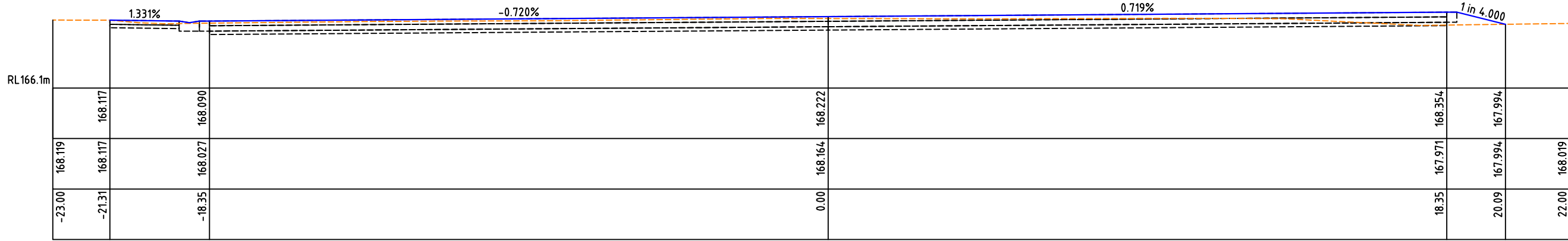


VERTICAL SCALE 1:100

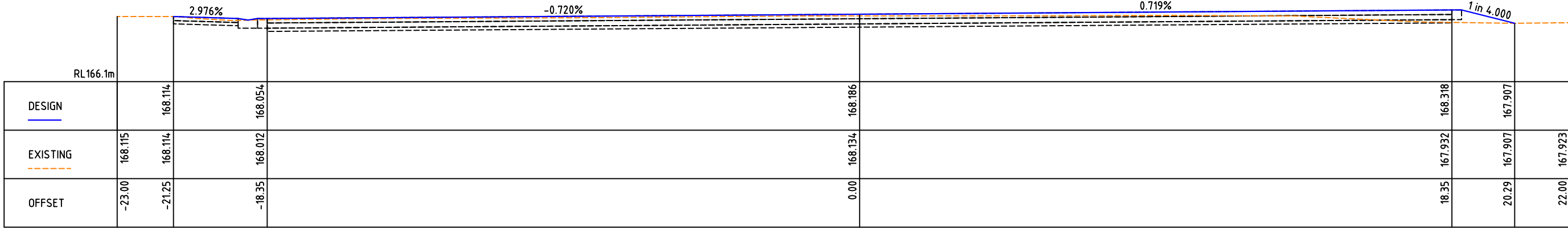


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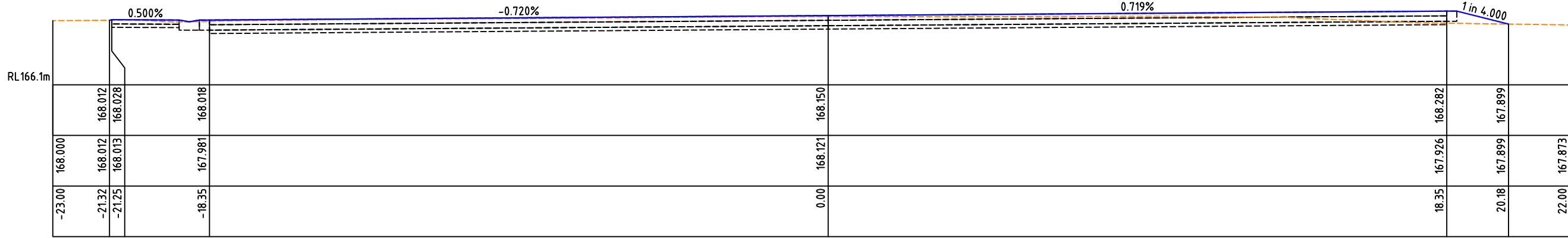
			DESIGNED:	DATE: 02-11-2022		CLIENT:	PROJECT: HARROW RECREATION RESERVE, HARROW - PROPOSED REDEVELOPMENT WORKS OF EXISTING COURTS - 2 MULTI PURPOSE NETBALL/TENNIS & 1 TENNIS COURT	CIVIL DRAWINGS			
			DRAWN:	SHEET SIZE: A3				DRAWING TITLE: 2240-24		SECTION B-B LONGITUDINAL SECTION	
			CHECKED: G. DEVENISH	SCALE:				SHEET: 24 of 29		REVISION: A	
A	ISSUED FOR COMMENTS	G.DEVENISH	04.11.22	APPROVED: G. DEVENISH							



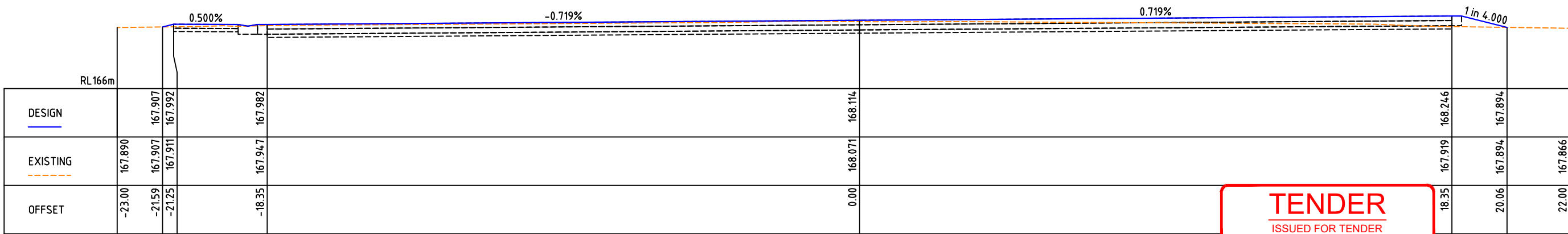
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Ch 10.00 m



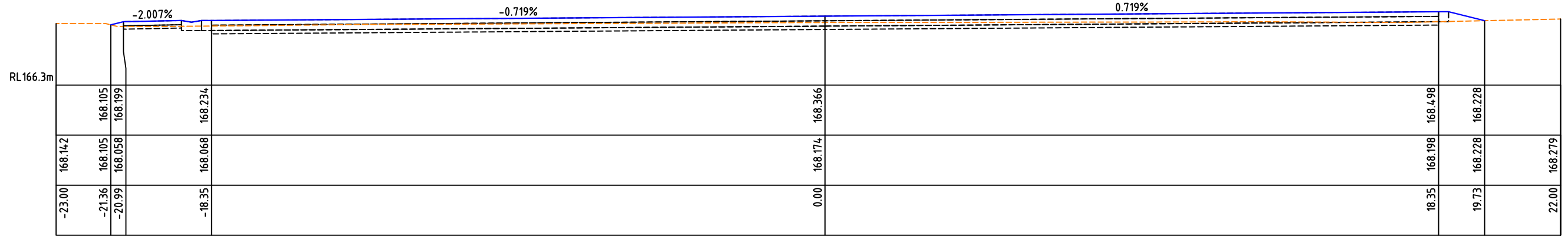
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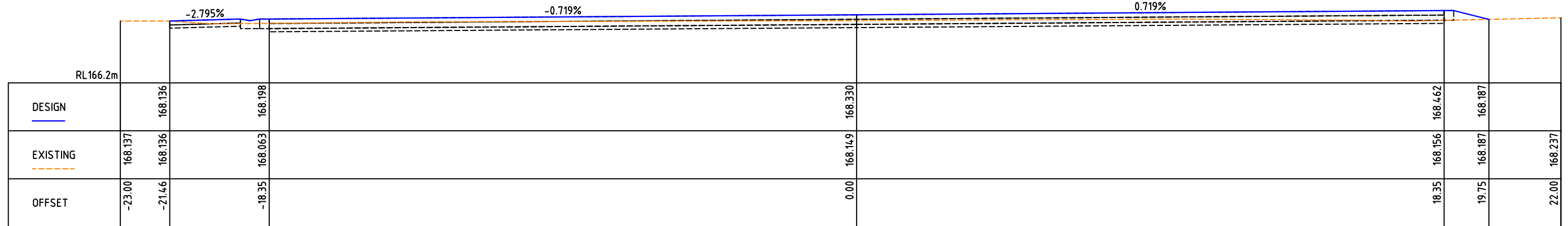
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TENDER
ISSUED FOR TENDER

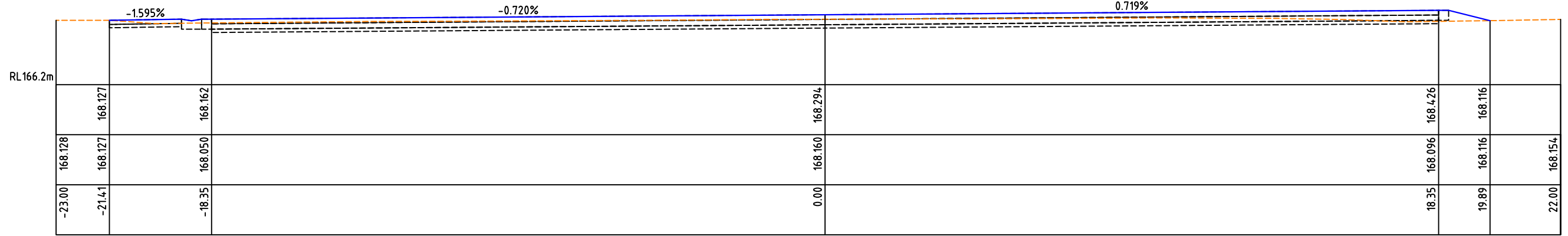
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			DRAWN:	SHEET SIZE: A3				DRAWING TITLE: 2240-25	
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A	ISSUED FOR COMMENTS	G.DEVENISH	04.11.22	APPROVED: G. DEVENISH				SHEET: 25 of 29	REVISION: A



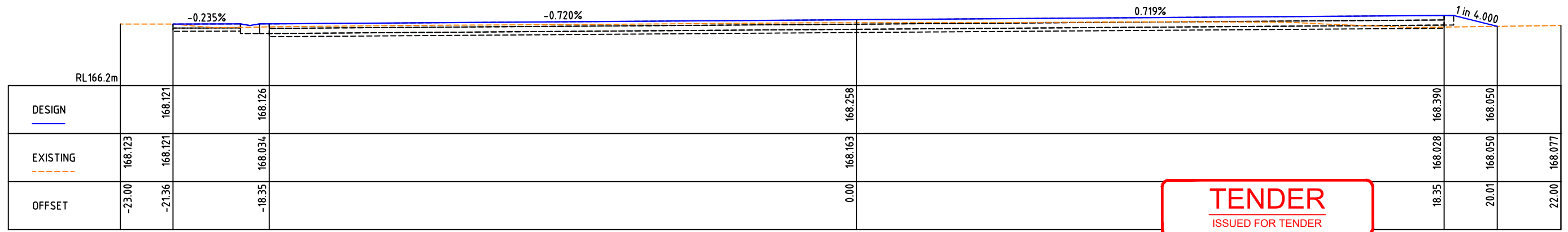
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Ch 30.00 m



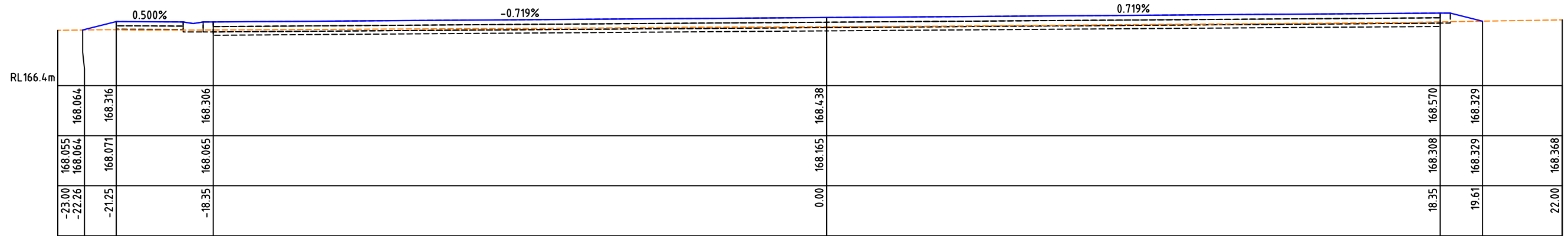
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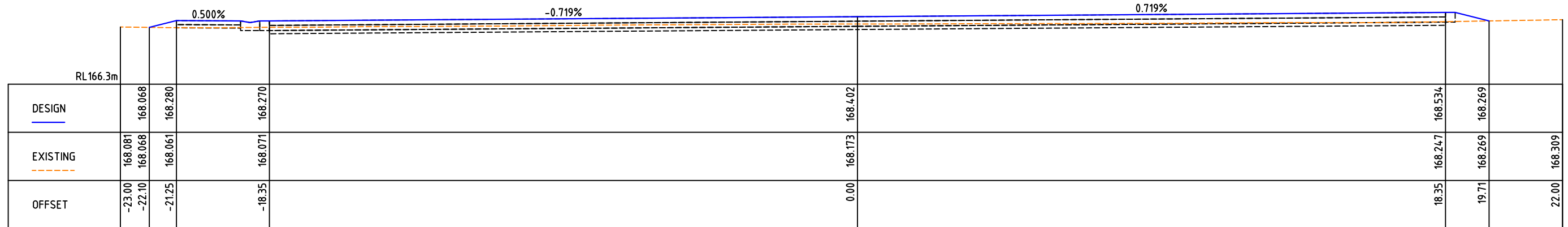
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TENDER
ISSUED FOR TENDER

				DESIGNED:	DATE: 03-11-2022			PROJECT: HARROW RECREATION RESERVE, HARROW - PROPOSED REDEVELOPMENT WORKS OF EXISTING COURTS - 2 MULTI PURPOSE NETBALL/TENNIS & 1 TENNIS COURT	CIVIL DRAWINGS	
				DRAWN:	SHEET SIZE: A3				DRAWING TITLE: 2240-26	
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A	ISSUED FOR COMMENTS	G.DEVENISH	04.11.22	APPROVED: G. DEVENISH					SHEET: 26 of 29	REVISION: A



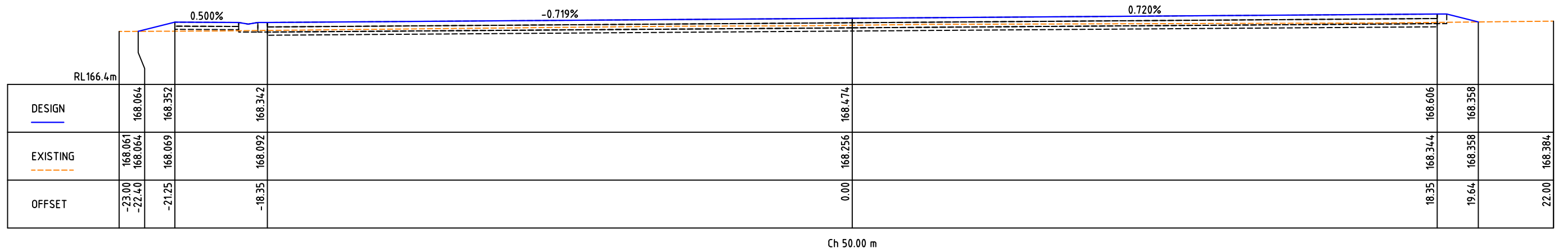
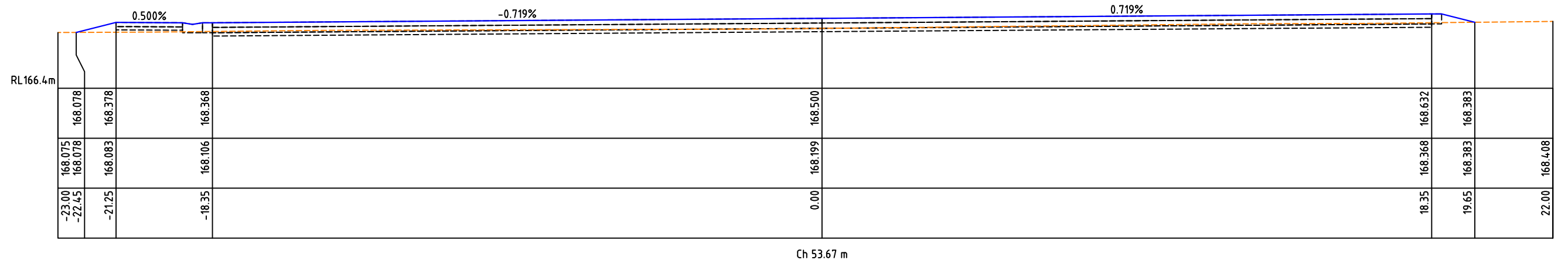
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Ch 40.00 m

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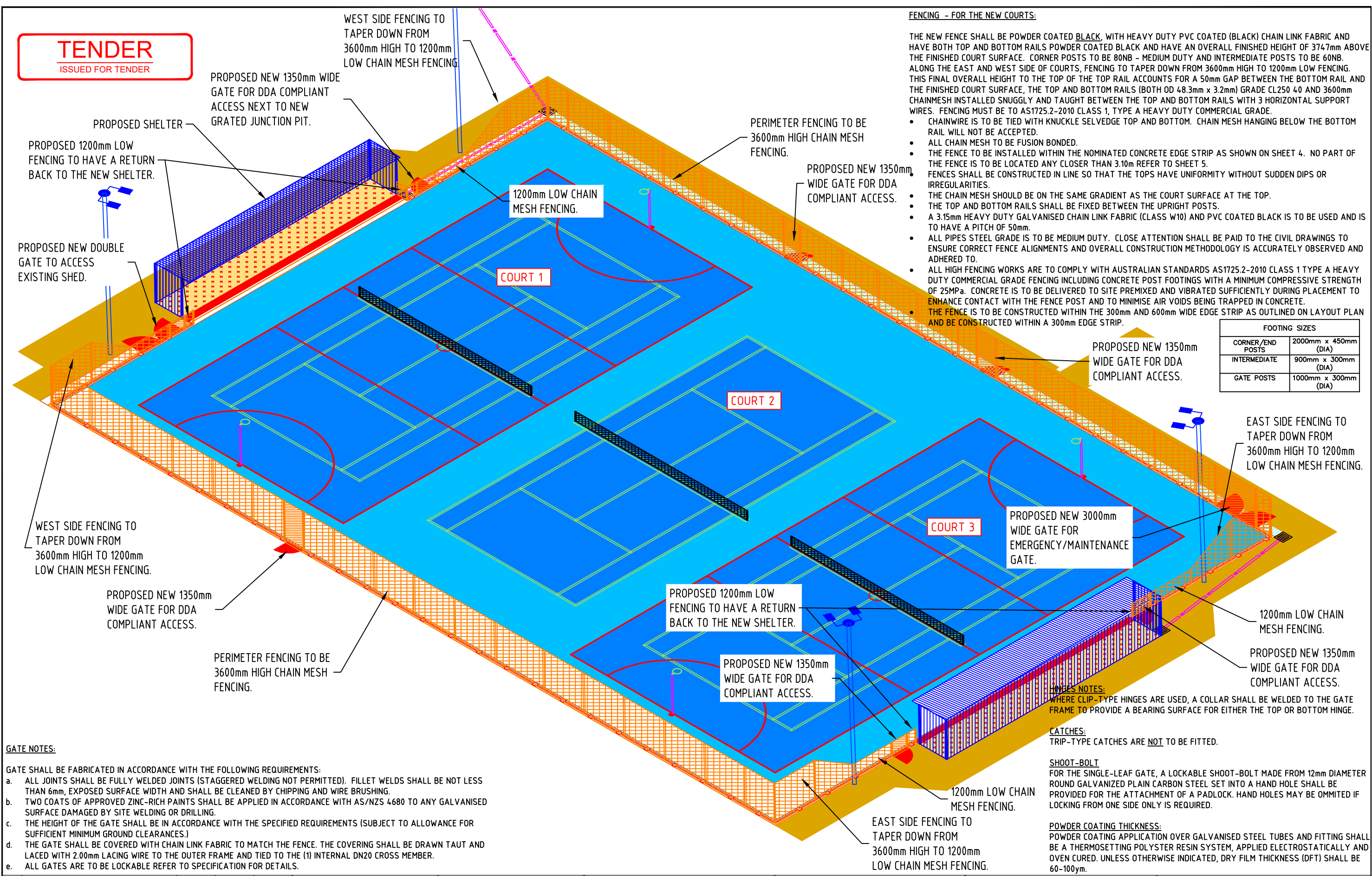
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				CHECKED: G. DEVENISH	SCALE: NOT TO SCALE				SECTION B-B CROSS SECTION - SHEET 3 of 4	
A	ISSUED FOR COMMENTS	G.DEVENISH	04.11.22	APPROVED: G. DEVENISH					SHEET: 27 of 29	REVISION: A



TENDER
ISSUED FOR TENDER

				DESIGNED:	DATE: 22-08-2022			PROJECT: HARROW RECREATION RESERVE, HARROW - PROPOSED REDEVELOPMENT WORKS OF EXISTING COURTS - 2 MULTI PURPOSE NETBALL/TENNIS & 1 TENNIS COURT	CIVIL DRAWINGS	
				DRAWN:	SHEET SIZE: A3				DRAWING TITLE: 2240-28	
				CHECKED: G. DEVENISH	SCALE: NOT TO SCALE				SECTION B-B CROSS SECTION - SHEET 4 of 4	
A	ISSUED FOR COMMENTS	G.DEVENISH	29.08.22	APPROVED: G. DEVENISH					SHEET: 28 of 29	REVISION: A

TENDER
ISSUED FOR TENDER



FENCING - FOR THE NEW COURTS:

THE NEW FENCE SHALL BE POWDER COATED BLACK, WITH HEAVY DUTY PVC COATED (BLACK) CHAIN LINK FABRIC AND HAVE BOTH TOP AND BOTTOM RAILS POWDER COATED BLACK AND HAVE AN OVERALL FINISHED HEIGHT OF 3747mm ABOVE THE FINISHED COURT SURFACE. CORNER POSTS TO BE 80NB - MEDIUM DUTY AND INTERMEDIATE POSTS TO BE 60NB. ALONG THE EAST AND WEST SIDE OF COURTS, FENCING TO TAPER DOWN FROM 3600mm HIGH TO 1200mm LOW FENCING. THIS FINAL OVERALL HEIGHT TO THE TOP OF THE TOP RAIL ACCOUNTS FOR A 50mm GAP BETWEEN THE BOTTOM RAIL AND THE FINISHED COURT SURFACE, THE TOP AND BOTTOM RAILS (BOTH OD 48.3mm x 3.2mm) GRADE CL250 40 AND 3600mm CHAINMESH INSTALLED SNUGLY AND TAUGHT BETWEEN THE TOP AND BOTTOM RAILS WITH 3 HORIZONTAL SUPPORT WIRES. FENCING MUST BE TO AS1725.2-2010 CLASS 1, TYPE A HEAVY DUTY COMMERCIAL GRADE.

- CHAINWIRE IS TO BE TIED WITH KNUCKLE SELVEDGE TOP AND BOTTOM. CHAIN MESH HANGING BELOW THE BOTTOM RAIL WILL NOT BE ACCEPTED.
- ALL CHAIN MESH TO BE FUSION BONDED.
- THE FENCE TO BE INSTALLED WITHIN THE NOMINATED CONCRETE EDGE STRIP AS SHOWN ON SHEET 4. NO PART OF THE FENCE IS TO BE LOCATED ANY CLOSER THAN 3.10m REFER TO SHEET 5.
- FENCES SHALL BE CONSTRUCTED IN LINE SO THAT THE TOPS HAVE UNIFORMITY WITHOUT SUDDEN DIPS OR IRREGULARITIES.
- THE CHAIN MESH SHOULD BE ON THE SAME GRADIENT AS THE COURT SURFACE AT THE TOP.
- THE TOP AND BOTTOM RAILS SHALL BE FIXED BETWEEN THE UPRIGHT POSTS.
- A 3.15mm HEAVY DUTY GALVANISED CHAIN LINK FABRIC (CLASS W10) AND PVC COATED BLACK IS TO BE USED AND IS TO HAVE A PITCH OF 50mm.
- ALL PIPES STEEL GRADE IS TO BE MEDIUM DUTY. CLOSE ATTENTION SHALL BE PAID TO THE CIVIL DRAWINGS TO ENSURE CORRECT FENCE ALIGNMENTS AND OVERALL CONSTRUCTION METHODOLOGY IS ACCURATELY OBSERVED AND ADHERED TO.
- ALL HIGH FENCING WORKS ARE TO COMPLY WITH AUSTRALIAN STANDARDS AS1725.2-2010 CLASS 1 TYPE A HEAVY DUTY COMMERCIAL GRADE FENCING INCLUDING CONCRETE POST FOOTINGS WITH A MINIMUM COMPRESSIVE STRENGTH OF 25MPa. CONCRETE IS TO BE DELIVERED TO SITE PREMIXED AND VIBRATED SUFFICIENTLY DURING PLACEMENT TO ENHANCE CONTACT WITH THE FENCE POST AND TO MINIMISE AIR VOIDS BEING TRAPPED IN CONCRETE.
- THE FENCE IS TO BE CONSTRUCTED WITHIN THE 300mm AND 600mm WIDE EDGE STRIP AS OUTLINED ON LAYOUT PLAN AND BE CONSTRUCTED WITHIN A 300mm EDGE STRIP.

FOOTING SIZES	
CORNER/END POSTS	2000mm x 450mm (DIA)
INTERMEDIATE	900mm x 300mm (DIA)
GATE POSTS	1000mm x 300mm (DIA)

GATE NOTES:

GATE SHALL BE FABRICATED IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:

- ALL JOINTS SHALL BE FULLY WELDED JOINTS (STAGGERED WELDING NOT PERMITTED). FILLET WELDS SHALL BE NOT LESS THAN 6mm, EXPOSED SURFACE WIDTH AND SHALL BE CLEANED BY CHIPPING AND WIRE BRUSHING.
- TWO COATS OF APPROVED ZINC-RICH PAINTS SHALL BE APPLIED IN ACCORDANCE WITH AS/NZS 4680 TO ANY GALVANISED SURFACE DAMAGED BY SITE WELDING OR DRILLING.
- THE HEIGHT OF THE GATE SHALL BE IN ACCORDANCE WITH THE SPECIFIED REQUIREMENTS (SUBJECT TO ALLOWANCE FOR SUFFICIENT MINIMUM GROUND CLEARANCES.)
- THE GATE SHALL BE COVERED WITH CHAIN LINK FABRIC TO MATCH THE FENCE. THE COVERING SHALL BE DRAWN TAUT AND LACED WITH 2.00mm LACING WIRE TO THE OUTER FRAME AND TIED TO THE (1) INTERNAL DN20 CROSS MEMBER.
- ALL GATES ARE TO BE LOCKABLE REFER TO SPECIFICATION FOR DETAILS.

HINGES NOTES:
WHERE CLIP-TYPE HINGES ARE USED, A COLLAR SHALL BE WELDED TO THE GATE FRAME TO PROVIDE A BEARING SURFACE FOR EITHER THE TOP OR BOTTOM HINGE.

CATCHES:
TRIP-TYPE CATCHES ARE NOT TO BE FITTED.

SHOOT-BOLT
FOR THE SINGLE-LEAF GATE, A LOCKABLE SHOOT-BOLT MADE FROM 12mm DIAMETER ROUND GALVANIZED PLAIN CARBON STEEL SET INTO A HAND HOLE SHALL BE PROVIDED FOR THE ATTACHMENT OF A PADLOCK. HAND HOLES MAY BE OMITTED IF LOCKING FROM ONE SIDE ONLY IS REQUIRED.

POWDER COATING THICKNESS:
POWDER COATING APPLICATION OVER GALVANISED STEEL TUBES AND FITTING SHALL BE A THERMOSETTING POLYESTER RESIN SYSTEM, APPLIED ELECTROSTATICALLY AND OVEN CURED. UNLESS OTHERWISE INDICATED, DRY FILM THICKNESS (DFT) SHALL BE 60-100µm.

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		DRAWN:	SHEET SIZE:	A3				DRAWING TITLE: 2240-29	
		CHECKED:	G. DEVENISH	SCALE:				FENCING PLAN	
A	ISSUED FOR COMMENTS	G.DEVENISH	04.11.22	APPROVED:	G. DEVENISH	NOT TO SCALE		SHEET: 29 of 29	REVISION: A