

HUNTINGWOOD EAST ESTATE
AUGUSTA STREET, HUNTINGWOOD EAST, NSW, 2148
STAGE 2 CIVIL EARLY WORKS PACKAGE
CONSTRUCTION CERTIFICATE 1F

DRAWING LIST

DRAWING NO.	DRAWING TITLE
C013904.07-S2EW102	DRAWING LIST & GENERAL NOTES - CONSTRUCTION CERTIFICATE 1F

C013904.07-S2EW400	STORMWATER DRAINAGE KEY PLAN
C013904.07-S2EW401	STORMWATER DRAINAGE PLAN - SHEET 1
C013904.07-S2EW402	STORMWATER DRAINAGE PLAN - SHEET 2
C013904.07-S2EW403	STORMWATER DRAINAGE PLAN - SHEET 3
C013904.07-S2EW404	STORMWATER DRAINAGE PLAN - SHEET 4
C013904.07-S2EW405	STORMWATER DRAINAGE PLAN - SHEET 5
C013904.07-S2EW406	STORMWATER DRAINAGE PLAN - SHEET 6
C013904.07-S2EW407	STORMWATER DRAINAGE PLAN - SHEET 7
C013904.07-S2EW408	STORMWATER DRAINAGE PLAN - SHEET 8
C013904.07-S2EW411	BLACKTOWN CREEK REALIGNMENT PLAN - SHEET 1
C013904.07-S2EW412	BLACKTOWN CREEK REALIGNMENT PLAN - SHEET 2

C013904.07-S2EW420	STORMWATER DRAINAGE CATCHMENT PLAN
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C013904.07-S2EW450	STORMWATER DRAINAGE DETAILS - SHEET 1
C013904.07-S2EW451	STORMWATER DRAINAGE DETAILS - SHEET 2
C013904.07-S2EW452	STORMWATER DRAINAGE DETAILS - SHEET 3
C013904.07-S2EW453	STORMWATER DRAINAGE DETAILS - SHEET 4
C013904.07-S2EW454	STORMWATER DRAINAGE DETAILS - SHEET 5
C013904.07-S2EW458	OSD TANK PLAN & DETAILS

C013904.07-S2EW471	WH1 STORMWATER LONG SECTIONS
C013904.07-S2EW472	WH2 STORMWATER LONG SECTIONS
C013904.07-S2EW473	WH3 STORMWATER LONG SECTIONS
C013904.07-S2EW474	WH4 STORMWATER LONG SECTIONS
C013904.07-S2EW475	WH3&4 PIT SCHEDULE

C013904.07-S2EW611	RETAINING WALL ELEVATIONS - SHEET 1
C013904.07-S2EW612	RETAINING WALL ELEVATIONS - SHEET 2
C013904.07-S2EW614	RETAINING WALL ELEVATIONS - SHEET 4

C013904.07-S2EW621	WAREHOUSE 1 - RETAINING WALL 1A SETOUT PLAN
C013904.07-S2EW632	WAREHOUSE 2 - RETAINING WALL 2D SETOUT PLAN
C013904.07-S2EW644	WAREHOUSE 4 - RETAINING WALL 4D SETOUT PLAN

This Design Compliance Certificate applies only to the stormwater drainage lines shown in blue on the stamped plans and OSD Tanks 1, 2, 3A and 3B. All swales, Basin 4, Blacktown Creek works, and any other stormwater infrastructure are excluded from this certificate.

Structural plans and certification for all OSD tanks listed above must be provided prior to installation.

CONSTRUCTION CERTIFICATE

Approved Plans & Specifications relating to:

Date Approved: 03 September 2026

Certificate No.: CC-26113

BM+G



LOCALITY PLAN
N.T.S.

GENERAL NOTES:

- THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND OTHER CONSULTANTS' DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ANY DISCREPANCY SHALL BE REFERRED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
- ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE RELEVANT AND CURRENT STANDARDS AUSTRALIA CODES AND WITH THE BY-LAWS AND ORDINANCES OF THE RELEVANT BUILDING AUTHORITIES EXCEPT WHERE VARIED BY THE PROJECT SPECIFICATION.
- ALL DIMENSIONS SHOWN SHALL BE VERIFIED BY THE BUILDER ON SITE. ENGINEER'S DRAWINGS SHALL NOT BE SCALED FOR DIMENSIONS. ENGINEER'S DRAWINGS ISSUED IN ANY ELECTRONIC FORMAT MUST NOT BE USED FOR DIMENSIONAL SETOUT. REFER TO THE ARCHITECT'S DRAWINGS FOR ALL DIMENSIONAL SETOUT INFORMATION.
- DURING CONSTRUCTION THE STRUCTURE SHALL BE MAINTAINED IN A STABLE CONDITION AND NO PART SHALL BE OVERSTRESSED. TEMPORARY BRACING SHALL BE PROVIDED BY THE BUILDER TO KEEP THE WORKS AND EXCAVATIONS STABLE AT ALL TIMES.
- UNLESS NOTED OTHERWISE ALL LEVELS ARE IN METRES AND ALL DIMENSIONS ARE IN MILLIMETRES.
- ALL WORKS SHALL BE UNDERTAKEN IN ACCORDANCE WITH ACCEPTABLE SAFETY STANDARDS & APPROPRIATE SAFETY SIGNS SHALL BE INSTALLED AT ALL TIMES DURING THE PROGRESS OF THE JOB.

ELECTRONIC INFORMATION NOTES:

- THE ISSUED DRAWINGS IN HARD COPY OR PDF FORMAT TAKE PRECEDENCE OVER ANY ELECTRONICALLY ISSUED INFORMATION, LAYOUTS OR DESIGN MODELS.
- THE CONTRACTOR'S DIRECT AMENDMENT OR MANIPULATION OF THE DATA OR INFORMATION THAT MIGHT BE CONTAINED WITHIN AN ENGINEER-SUPPLIED DIGITAL TERRAIN MODEL AND ITS SUBSEQUENT USE TO UNDERTAKE THE WORKS WILL BE SOLELY AT THE DISCRETION OF AND THE RISK OF THE CONTRACTOR.
- THE CONTRACTOR IS REQUIRED TO HIGHLIGHT ANY DISCREPANCIES BETWEEN THE DIGITAL TERRAIN MODEL AND INFORMATION PROVIDED IN THE CONTRACT AND/OR DRAWINGS AND IS REQUIRED TO SEEK CLARIFICATION FROM THE SUPERINTENDENT.
- THE ENGINEER WILL NOT BE LIABLE OR RESPONSIBLE FOR THE POSSIBLE ON-GOING NEED TO UPDATE THE DIGITAL TERRAIN MODEL, SHOULD THERE BE ANY AMENDMENTS OR CHANGES TO THE DRAWINGS OR CONTRACT INITIATED BY THE CONTRACTOR.

Compliance Certificate

Certificate Number: 250062CC05

Issuing Officer: Sammy Gazal

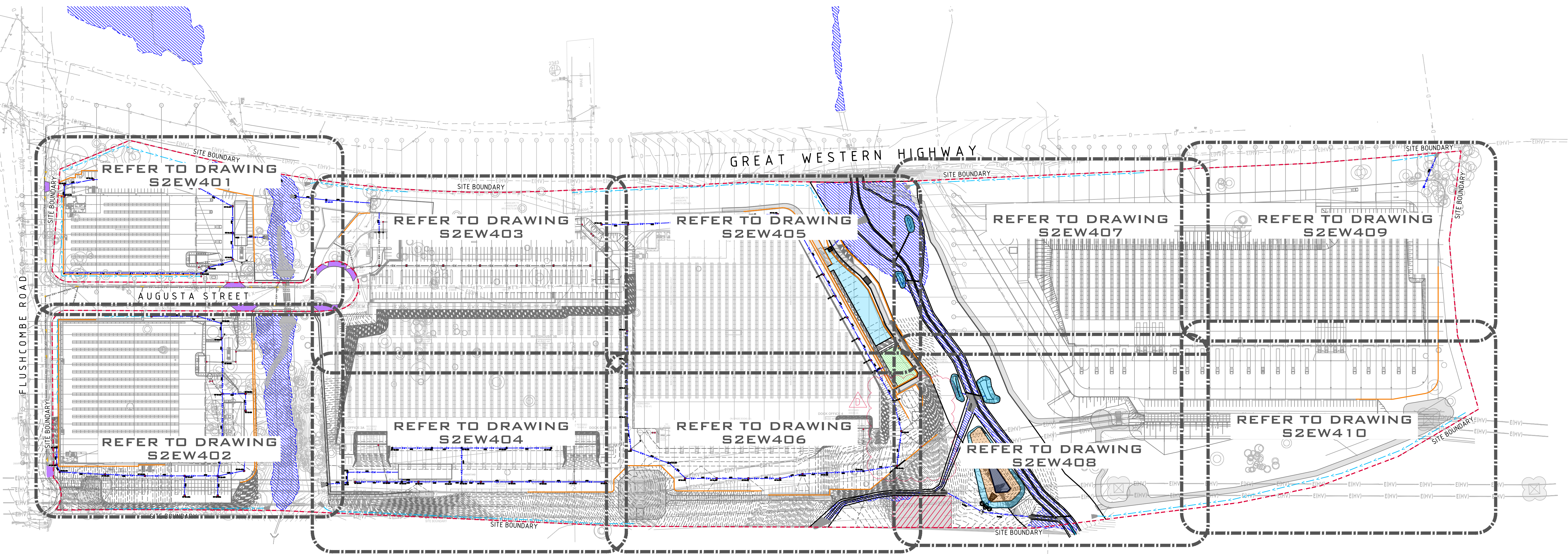
Registration Number: BDC05310

These plans/specifications form part of the certificate issued: 01/09/2026

BRS

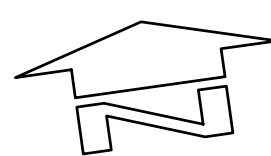
PRELIMINARY ONLY

						ARCHITECT  p: 02 9929 9988 e: info@sba.au w: www.sba.au			CLIENT 			BUILDER 			PROJECT PROPOSED WAREHOUSE DISTRIBUTION AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148			 COSTIN ROE CONSULTING PTY LTD. ABN 50 003 696 446 PO Box N419 Sydney NSW 1220 Level 4, 8 Windmill Street, Millers Point NSW 2000 p: +61 2 9251 7699 f: +61 2 9241 3751 e: mail@costinroe.com.au w: costinroe.com.au			 CIVIL & STRUCTURAL ENGINEERS			DRAWING TITLE DRAWING LIST & GENERAL NOTES - CONSTRUCTION CERTIFICATE 1F		
REVISED AS CLOUDED ISSUED FOR PRELIMINARY AMENDMENTS			16.07.26 03.07.26 DATE ISSUE			B A DATE ISSUE						DESIGNED LDV DRAWN KP DATE MAY 2026 CHECKED MW SIZE B1 SCALE AS SHOWN CAD REF: C013904.07-S2EW102						DRAWING No C013904.07-S2EW102			ISSUE B					



M4 MOTORWAY

M4 MOTORWAY



STORMWATER DRAINAGE KEY PLAN
SCALE 1:1500

STORMWATER DRAINAGE NOTES:

STORMWATER DRAINAGE NOTES ARE APPLICABLE FOR PRIVATE INTERNAL STORMWATER DRAINAGE WORKS ONLY, REFERENCE SHOULD BE MADE TO THE RELEVANT COUNCIL/ROADS AUTHORITY GUIDELINES AND SPECIFICATIONS FOR ALL STORMWATER DRAINAGE WORKS NOT PART OF THE PRIVATE INTERNAL WORKS.

- ALL STORMWATER WORKS TO BE COMPLETED IN ACCORDANCE WITH AUSTRALIAN STANDARD AS3500.3 PLUMBING AND DRAINAGE, PART 3: STORMWATER DRAINAGE.
- THE MINOR (PIPED) SYSTEM HAS BEEN DESIGNED FOR THE 1 IN 20 YEAR ARI STORM EVENT AND THE MAJOR (OVERLAND) SYSTEM HAS BEEN DESIGNED FOR THE 1 IN 100 YEAR ARI STORM EVENT.
- ALL FINISHED PAVEMENT LEVELS SHALL BE AS INDICATED ON FINISHED LEVELS PLANS C013904.03-S1EW301 TO S1EW304.
- PIT SIZES SHALL BE AS INDICATED IN THE SCHEDULE WHILE PIPE SIZES AND DETAILS ARE PROVIDED ON PLAN.
- EXISTING STORMWATER PIT LOCATIONS AND INVERT LEVELS TO BE CONFIRMED BY SURVEY PRIOR TO COMMENCING WORKS ON SITE.
- ALL STORMWATER PIPES $\phi 375$ OR GREATER SHALL BE CLASS 2 (WITH HS2 SUPPORT) REINFORCED CONCRETE WITH RUBBER RING JOINTS UNLESS NOTED OTHERWISE.
- ALL PIPES UP TO AND INCLUDING $\phi 300$ TO BE uPVC GRADE SN8 UNO.
- PIPE CLASS NOMINATED ARE FOR IN-SERVICE LOADING CONDITIONS ONLY. CONTRACTOR IS TO MAKE ANY NECESSARY ADJUSTMENTS REQUIRED FOR CONSTRUCTION CONDITIONS.
- ALL CONCRETE PITS GREATER THAN 1000mm DEEP SHALL BE REINFORCED USING N12-200 EACH WAY CENTERED IN WALL AND BASE. LAP MINIMUM 300mm WHERE REQUIRED. ALL CONCRETE FOR PITS SHALL BE $F'c \leq 25$ MPa. PRECAST PITS MAY BE USED WITH THE APPROVAL OF THE ENGINEER.
- IN ADDITION TO ITEM 9 ABOVE, ALL CONCRETE PITS GREATER THAN 3000mm DEEP SHALL HAVE WALLS AND BASE THICKNESS INCREASED TO 200mm.
- PIPES SHALL BE LAID AS PER PIPE LAYING DETAILS. PARTICULAR CARE SHALL BE TAKEN TO ENSURE THAT THE PIPE IS FULLY AND EVENLY SUPPORTED. RAM AND PACK FILLING AROUND AND UNDER BACK OF PIPES AND PIPE FAUCETS, WITH NARROW EDGED RAMMERS OR OTHER SUITABLE TAMPING DETAILS.
- CONCRETE PIPES UNDER, OR WITHIN THE ZONE OF INFLUENCE OF PAVED AREAS SHALL BE LAID USING HS2 TYPE SUPPORT, AS A MINIMUM, IN ACCORDANCE WITH AS 3725. AGGREGATE BACKFILL SHALL NOT BE USED FOR PIPE BEDDING AND OR HAUNCH/SIDE SUPPORT.
- WHERE PIPE LINES ENTER PITS, PROVIDE 3m LENGTH OF STOCKING WRAPPED SLOTTED $\phi 100$ uPVC TO EACH SIDE OF PIPE.
- ALL SUBSOIL DRAINAGE LINES SHALL BE $\phi 100$ SLOTTED uPVC WITH APPROVED FILTER WRAP LAID IN 300mm WIDE GRANULAR FILTER UNLESS NOTED OTHERWISE. LAY SUBSOIL LINES TO MATCH FALLS OF LAND AND/OR 1 IN 200 MINIMUM. PROVIDE CAPPED CLEANING EYE (RODDING POINT) AT UPSTREAM END OF LINE AND AT 30m MAX. CTS. PROVIDE SUBSOIL LINES TO ALL PAVEMENT/LANDSCAPED INTERFACES, TO REAR OF RETAINING WALLS (AS NOMINATED BY STRUCTURAL ENGINEER) AND AS SHOWN ON PLAN.
- WHERE SUBSOIL DRAINAGE PASSES UNDER A PAVEMENT OR A SLAB, UNSLOTTED UPVC ARE TO BE PROVIDED UNLESS NOTED OTHERWISE.
- ALL PIPE GRADES 1 IN 200 MINIMUM UNO.
- PROVIDE STEP IRONS IN PITS DEEPER THAN 1000mm.
- MIN. 600 COVER TO PIPE OBVERT BENEATH ROADS & MIN. 400 COVER BENEATH LANDSCAPED AND PEDESTRIAN AREAS.
- PIT COVERS IN TRAFFICABLE PAVEMENT SHALL BE CLASS D 'HEAVY DUTY'. WHERE FORKLIFT USE IS REQUIRED EXTERNAL TO THE BUILDING PIT COVERS SHALL BE MIN. CLASS E. PIT COVERS IN CONTAINER PAVEMENTS ARE TO BE MIN. CLASS G. REFER TO ENGINEER FOR SPECIAL DETAILS. THOSE LOCATED IN NON-TRAFFICABLE AREAS SHALL BE CLASS B 'MEDIUM DUTY' UNO.
- PROVIDE CLEANING EYES (RODDING POINTS) TO PIPES AT ALL CORNERS AND T-JUNCTIONS WHERE NO PITS ARE PRESENT.
- DOWN PIPES (DP) TO BE AS PER HYDRAULIC ENGINEERS DETAILS WITH CONNECTOR TO MATCH DP SIZE UNO. ON PLAN. PROVIDE CLEANING EYE AT GROUND LEVEL.
- PIPE LENGTHS NOMINATED ON PLAN OR LONGSECTIONS ARE MEASURED FROM CENTER OF PITS TO THE NEAREST 0.5m AND DO NOT REPRESENT ACTUAL LENGTH. THE CONTRACTOR IS TO ALLOW FOR THIS.
- WHERE CONNECTION TO EXISTING INGROUND DRAINAGE SYSTEMS, OPEN SWALES, CHANNELS OR ANY OTHER EXISTING SYSTEM, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION AND INVERT ON SITE AT THE BEGINNING OF THE CONSTRUCTION PERIOD. REFER ANY VARIANCE FROM DOCUMENTATION OR SURVEYS TO THE ENGINEER FOR CLARIFICATION.

FUTURE GWH WORKS INTERFACE NOTE:

PROVIDE SMOOTH INTERFACE BETWEEN THE PROPOSED DEVELOPMENT'S FINISHED SURFACE LEVELS AT THE BOUNDARY AND THE PROPOSED FINISHED SURFACE LEVELS OF THE SHARED PATHWAY ALONG THE GREAT WESTERN HIGHWAY DESIGNED BY MU GROUP. PROVIDE OPEN SWALE AT INTERFACE AS SHOWN TO DIRECT SURFACE RUNOFF TO THE NEAREST DISCHARGE POINT. NOT PART OF THE EARLY WORKS SCOPE OF WORKS

NOTES:

PROPOSED TREES TO BE RETAINED ARE IDENTIFIED IN ACCORDANCE WITH THE ECOLOGIST'S REPORT (REF: E-001759-23). REFER TO DRAWING S1EW156 FOR VISUAL GUIDANCE. IN THE EVENT OF ANY DISCREPANCIES BETWEEN THIS DRAWING AND THE ECOLOGIST'S REPORT, THE REPORT SHALL TAKE PRECEDENCE.

LEGEND:

LEVELS DATUM IS AHD.

EXISTING LEVELS ARE BASED ON INFORMATION PROVIDED BY LANDPARTNERS TITLED SY074904.002.2.2 DATED 04/03/2022.



- OVERLAND FLOW DIRECTION



- SGGP, SINGLE GRATED GULLY PIT



- SJP, SEALED JUNCTION PIT



- KIP, ROAD KERB INLET PIT



- FUTURE SGGP, SINGLE GRATED GULLY PIT



- FUTURE SJP, SEALED JUNCTION PIT



- PROPOSED DRAINAGE LINE



- FUTURE ESTATE DRAINAGE LINE



- ROAD DRAINAGE LINE



- OPEN SWALE



- 1% AEP EXTENT



- STAGE 2 EARLYWORKS RETAINING WALL



- STAGE 1 EARLYWORKS RETAINING WALL



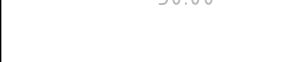
- BUILDING WORKS RETAINING WALL



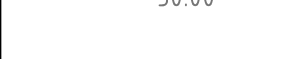
- SITE BOUNDARY



- EXISTING CONTOUR (0.2m INTERVAL)



- B.E.L. CONTOUR (MAJOR 1.0m)



- B.E.L. CONTOUR (MINOR 0.25m)



- B.E.L. SPOT LEVEL

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BM+G

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Certificate Number: 250062CC05

Issuing Officer: Sammy Gazal

Registration Number: BDC05310

These plans/specifications form part of the certificate issued: 01/09/2026

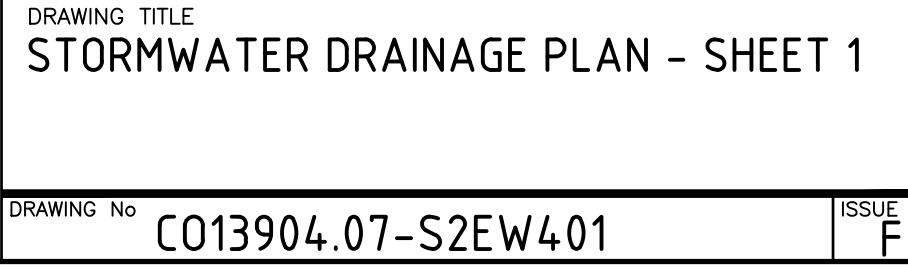
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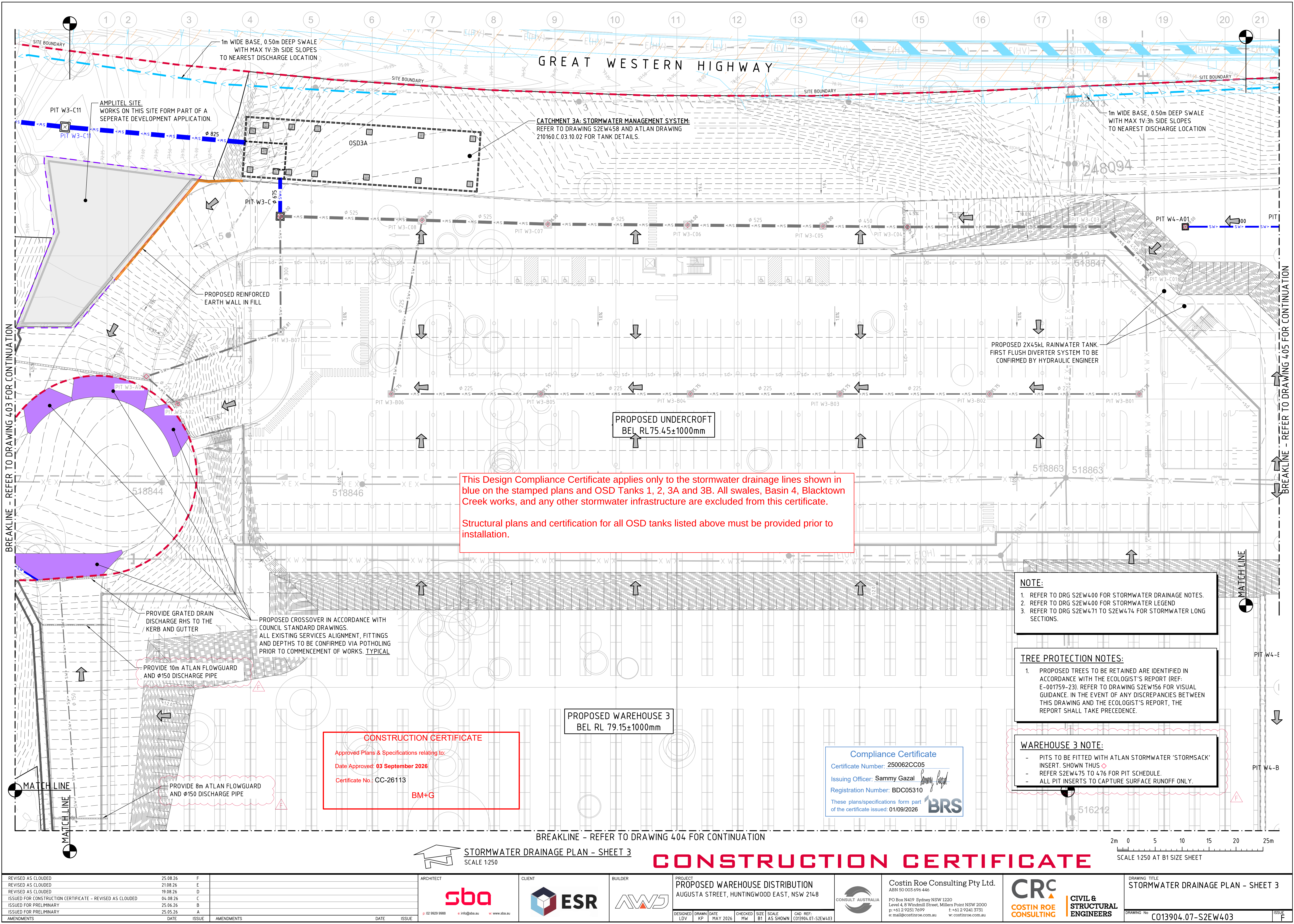
15m 0 15 30 45 60 75 90 105 120 135 150m

SCALE 1:1500 AT B1 SIZE SHEET

CONSTRUCTION CERTIFICATE

REVISED AAS CLOUDED ISSUED FOR CCIE ISSUED FOR PRELIMINARY ISSUED FOR PRELIMINARY AMENDMENTS			03.07.26 29.06.26 25.06.26 25.05.26			D C B A			ARCHITECT PACearchitects			CLIENT ESR			PROJECT PROPOSED WAREHOUSE DISTRIBUTION AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148			Costin Roe Consulting Pty Ltd. ABN 50 003 696 446 PO Box N419 Sydney NSW 1220 Level 4, 8 Windmill Street, Millers Point NSW 2000 p: +61 2 9251 7699 e: mail@costinroe.com.au w: costinroe.com.au			CIVIL & STRUCTURAL ENGINEERS CRC COSTIN ROE CONSULTING			DRAWING TITLE STORMWATER DRAINAGE KEY PLAN			DRAWING No C013904.07-S2EW400			ISSUE D		
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BREAKLINE - REFER TO DRAWING 403 FOR CONTINUATION

MATCH LINE

NOTE:

- REFER TO DRG S2EW400 FOR STORMWATER DRAINAGE NOTES.
- REFER TO DRG S2EW400 FOR STORMWATER LEGEND
- REFER TO DRG S2EW471 TO S2EW474 FOR STORMWATER LONG SECTIONS.

TREE PROTECTION NOTES:

- PROPOSED TREES TO BE RETAINED ARE IDENTIFIED IN ACCORDANCE WITH THE ECOLOGIST'S REPORT (REF: E-001759-23). REFER TO DRAWING S2EW156 FOR VISUAL GUIDANCE. IN THE EVENT OF ANY DISCREPANCIES BETWEEN THIS DRAWING AND THE ECOLOGIST'S REPORT, THE REPORT SHALL TAKE PRECEDENCE.

WAREHOUSE 3 NOTE:

- PITS TO BE FITTED WITH ATLAN STORMWATER 'STORMSACK' INSERT. SHOWN THUS
- REFER S2EW475 TO 476 FOR PIT SCHEDULE.
- ALL PIT INSERTS TO CAPTURE SURFACE RUNOFF ONLY.

PROVIDE 8m ATLAN FLOWGUARD AND Ø150 DISCHARGE PIPE

TIERED RETAINING WALL

CATCHMENT 3B: STORMWATER MANAGEMENT SYSTEM:
REFER TO DRAWING S2EW458 AND ATLAN DRAWING 210160.C.04.10.02 FOR TANK DETAILS.

DOCK OFFICE 3B
100 m²

PROPOSED REINFORCED EARTH WALL / SOLDIER PILE WALL IN CUT

OSD TANK 3B

OSD3B

PIT W3-E12, **PIT W3-E13**, **PIT W3-E09**, **PIT W3-E10**, **PIT W3-E11**, **PIT W3-E08**, **PIT W3-E07**, **PIT W3-E06**, **PIT W3-E05**, **PIT W3-E04**, **PIT W3-E03**, **PIT W3-E02**, **PIT W3-E01**, **PIT W3-D03b**, **PIT W3-D03a**, **PIT W3-D03**, **PIT W3-D02**, **PIT W3-D01**

EXISTING Ø750mm STORMWATER PIPE & STUB

EXISTING ENERGY DISSIPATER

ENERGY DISSIPATER 10
REFER S2EW452 FOR DETAILS

PROPOSED MAINTENANCE ACCESS TRACK

EXISTING TIERED RETAINING WALL

LANDSCAPE SETBACK BATTERED AT 1V:3H MAX TO MATCH EXISTING LEVELS AT BOUNDARIES.

1m WIDE BASE, 0.50m DEEP SWALE WITH MAX 1V:3H SIDE SLOPES TO NEAREST DISCHARGE LOCATION

SITE BOUNDARY

20m LANDSCAPE SETBACK

M4 MOTORWAY

COMPLIANCE CERTIFICATE
Certificate Number: 250062CC05
Issuing Officer: Sammy Gazal
Registration Number: BDC05310
These plans/specifications form part of the certificate issued: 01/09/2026
BRS

BREAKLINE - REFER TO DRAWING 406 FOR CONTINUATION

MATCH LINE

1. REFER TO DRG S2EW400 FOR STORMWATER DRAINAGE NOTES.
2. REFER TO DRG S2EW400 FOR STORMWATER LEGEND
3. REFER TO DRG S2EW471 TO S2EW474 FOR STORMWATER LONG SECTIONS.

1. PROPOSED TREES TO BE RETAINED ARE IDENTIFIED IN ACCORDANCE WITH THE ECOLOGIST'S REPORT (REF: E-001759-23). REFER TO DRAWING S2EW156 FOR VISUAL GUIDANCE. IN THE EVENT OF ANY DISCREPANCIES BETWEEN THIS DRAWING AND THE ECOLOGIST'S REPORT, THE REPORT SHALL TAKE PRECEDENCE.

- PITS TO BE FITTED WITH ATLAN STORMWATER 'STORMSACK' INSERT. SHOWN THUS
- REFER S2EW475 TO 476 FOR PIT SCHEDULE.
- ALL PIT INSERTS TO CAPTURE SURFACE RUNOFF ONLY.

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CATCHMENT 3B: STORMWATER MANAGEMENT SYSTEM
REFER TO DRAWING S2EW458 AND ATLAN DRAWING
210160.C.04.10.02 FOR TANK DETAILS.

100 m²

2m 0 5 10 15 20 25m
SCALE 1:250 AT B1 SIZE SHEET

CONSTRUCTION CERTIFICATE

Certificate Number: 250062CC05

Issuing Officer: **Sammy Gazal**

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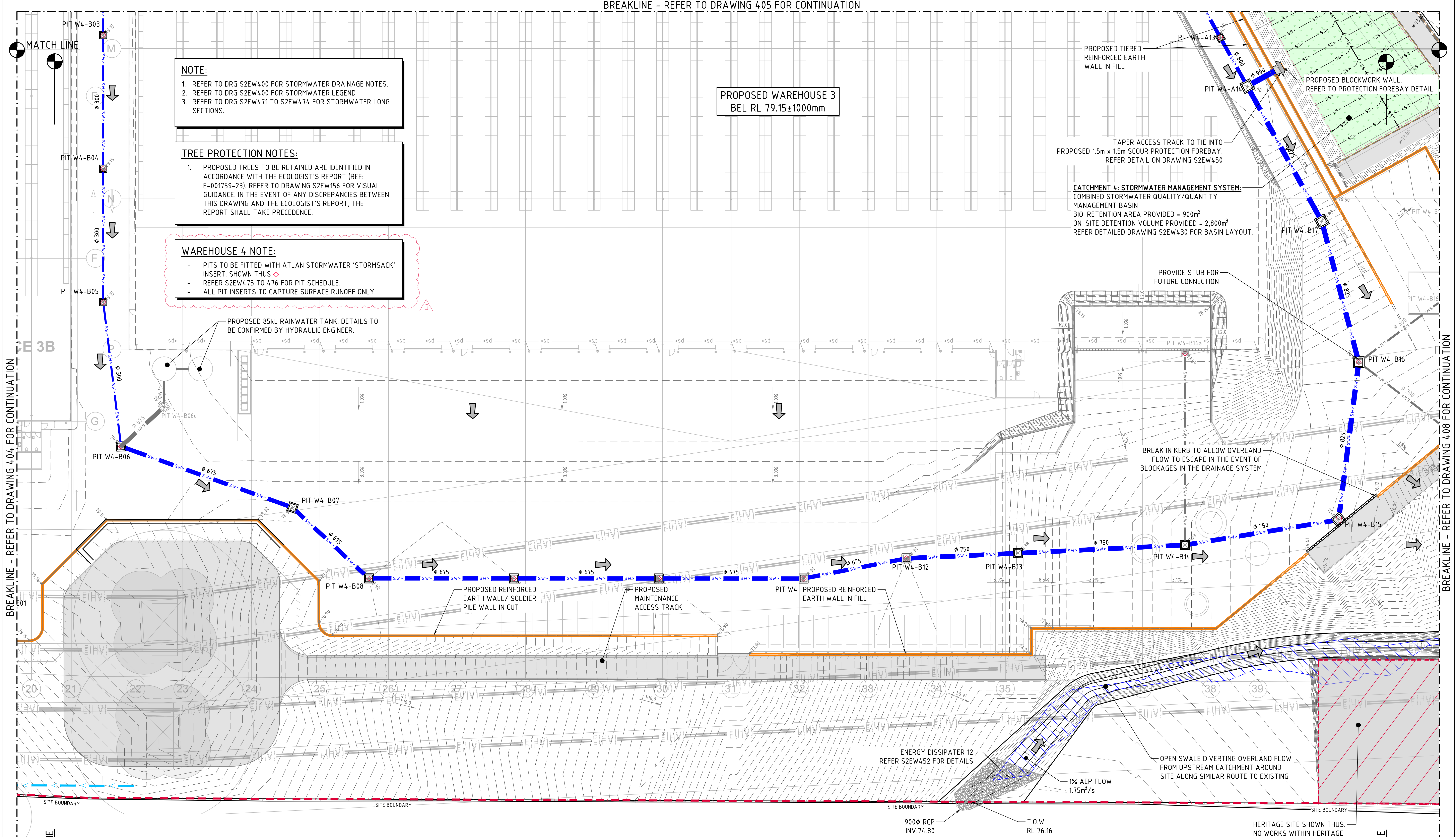
Certificate No.: CC-26113

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STORMWATER DRAINAGE PLAN - SHEET 4
SCALE 1:250

[illegible]

BREAKLINE - REFER TO DRAWING 405 FOR CONTINUATION



NOTE:

1. REFER TO DRG S2EW400 FOR STORMWATER DRAINAGE NOTES.
2. REFER TO DRG S2EW400 FOR STORMWATER LEGEND
3. REFER TO DRG S2EW471 TO S2EW474 FOR STORMWATER LONG SECTIONS.

TREE PROTECTION NOTES:

1. PROPOSED TREES TO BE RETAINED ARE IDENTIFIED IN ACCORDANCE WITH THE ECOLOGIST'S REPORT (REF: E-001759-23). REFER TO DRAWING S2EW156 FOR VISUAL GUIDANCE. IN THE EVENT OF ANY DISCREPANCIES BETWEEN THIS DRAWING AND THE ECOLOGIST'S REPORT, THE REPORT SHALL TAKE PRECEDENCE.

WAREHOUSE 4 NOTE:

- PITS TO BE FITTED WITH ATLAN STORMWATER 'STORMSACK' INSERT. SHOWN THUS
- REFER S2EW475 TO 476 FOR PIT SCHEDULE.
- ALL PIT INSERTS TO CAPTURE SURFACE RUNOFF ONLY

PROPOSED WAREHOUSE 3
BEL RL 79.15±1000mm

PROPOSED TIERED REINFORCED EARTH WALL IN FILL

PROPOSED BLOCKWORK WALL. REFER TO PROTECTION FOREBAY DETAIL.

TAPER ACCESS TRACK TO TIE INTO PROPOSED 15m x 15m SCOUR PROTECTION FOREBAY. REFER DETAIL ON DRAWING S2EW450

CATCHMENT 4: STORMWATER MANAGEMENT SYSTEM:
COMBINED STORMWATER QUALITY/QUANTITY MANAGEMENT BASIN
BIO-RETENTION AREA PROVIDED = 900m²
ON-SITE DETENTION VOLUME PROVIDED = 2,800m³
REFER DETAILED DRAWING S2EW430 FOR BASIN LAYOUT.

PROVIDE STUB FOR FUTURE CONNECTION

BREAK IN KERB TO ALLOW OVERLAND FLOW TO ESCAPE IN THE EVENT OF BLOCKAGES IN THE DRAINAGE SYSTEM

PROPOSED REINFORCED EARTH WALL/ SOLDIER PILE WALL IN CUT

PROPOSED MAINTENANCE ACCESS TRACK

PIT W4 - PROPOSED REINFORCED EARTH WALL IN FILL

ENERGY DISSIPATER 12
REFER S2EW452 FOR DETAILS

1% AEP FLOW
= 1.75m³/s

OPEN SWALE DIVERTING OVERLAND FLOW FROM UPSTREAM CATCHMENT AROUND SITE ALONG SIMILAR ROUTE TO EXISTING

900Ø RCP
INV:74.80

T.O.W
RL 76.16

HERITAGE SITE SHOWN THUS. NO WORKS WITHIN HERITAGE ZONE. MATCH LEVELS AT BOUNDARY OF HERITAGE SITE

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M4 MOTORWAY

STORMWATER DRAINAGE PLAN - SHEET 6
SCALE 1:250

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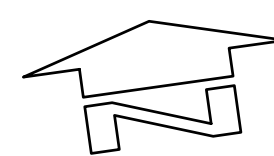
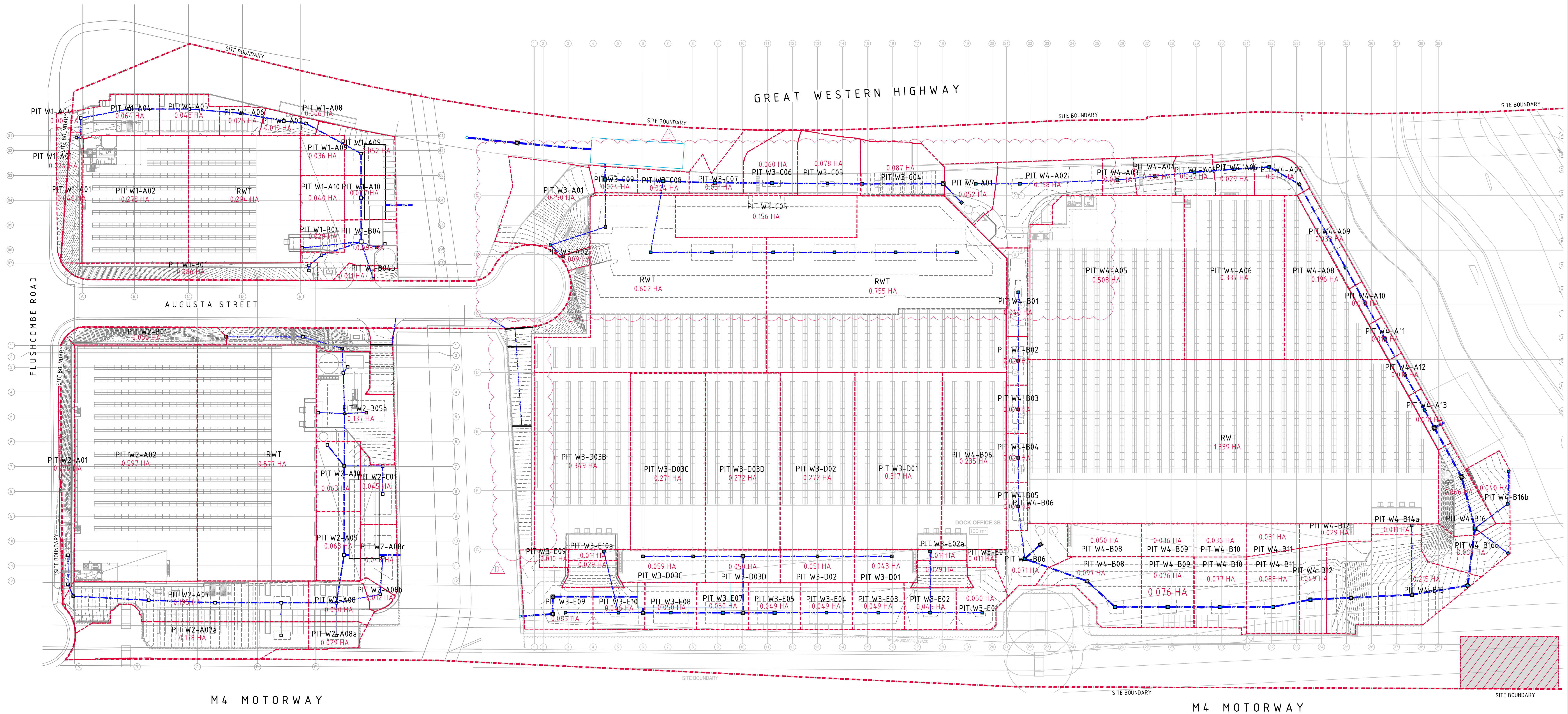
2m 0 5 10 15 20 25m
SCALE 1:250 AT B1 SIZE SHEET

REVISED AS CLOUDED	21.08.26	F	ARCHITECT	CLIENT	BUILDER	PROJECT	COSTIN ROE CONSULTING PTY LTD.	DRAWING TITLE	STORMWATER DRAINAGE PLAN - SHEET 6
ISSUED FOR CONSTRUCTION CERTIFICATE - REVISED AS CLOUDED	04.08.26	E				PROPOSED WAREHOUSE DISTRIBUTION	ABN 50 003 696 446		
REVISED AS CLOUDED	03.07.26	D				AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148	PO Box 419 Sydney NSW 1220		
ISSUED FOR CCIE	29.06.26	C					Level 4, 8 Windmill Street, Millers Point NSW 2000		
ISSUED FOR PRELIMINARY	25.06.26	B					p: +61 2 9251 7699 f: +61 2 9241 3731		
ISSUED FOR PRELIMINARY	25.05.26	A					e: mail@costinroe.com.au w: costinroe.com.au		
AMENDMENTS	DATE	ISSUE	REVISED AS CLOUDED	25.08.26	G				
	DATE	AMENDMENTS		DATE	ISSUE				

p: 02 9929 9988 e: info@sba.au w: www.sba.au					

DESIGNED	LDV	DRAWN	KP	DATE	MAY 2026	CHECKED	MW	SCALE	AS SHOWN	CAD REF:	C013904.07-S2EW406
ISSUED											

DRAWING No	C013904.07-S2EW406	ISSUE	G
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STORMWATER DRAINAGE CATCHMENT PLAN
SCALE 1:750

This Design Compliance Certificate applies only to the stormwater drainage lines shown in blue on the stamped plans and OSD Tanks 1, 2, 3A and 3B. All swales, Basin 4, Blacktown Creek works, and any other stormwater infrastructure are excluded from this certificate.

Structural plans and certification for all OSD tanks listed above must be provided prior to installation.

CONSTRUCTION CERTIFICATE

Approved Plans & Specifications relating to:

Date Approved: 03 September 2026

Certificate No.: CC-26113

BM+G

Compliance Certificate

Certificate Number: 250062CC05

Issuing Officer: Sammy Gazal

Registration Number: BDC05310

These plans/specifications form part of the certificate issued: 01/09/2026



6m 0 15 30 45 60 75m
SCALE 1:750 AT B1 SIZE SHEET

CONSTRUCTION CERTIFICATE

REVISED AS CLOUDED REVISED AS CLOUDED ISSUED FOR CONSTRUCTION CERTIFICATE - REVISED AS CLOUDED REVISED AS CLOUDED ISSUED FOR CONSTRUCTION CERTIFICATE AMENDMENTS			25.08.26 19.08.26 04.08.26 24.07.26 08.07.26 DATE			E D C B A ISSUE			ARCHITECT PACearchitects			CLIENT ESR			PROJECT PROPOSED WAREHOUSE DISTRIBUTION AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148			CONSULT AUSTRALIA			Costin Roe Consulting Pty Ltd. ABN 50 003 696 446 PO Box N419 Sydney NSW 1220 Level 4, 8 Windmill Street, Millers Point NSW 2000 p: +61 2 9251 7699 e: mail@costinroe.com.au w: costinroe.com.au			CRC COSTIN ROE CONSULTING CIVIL & STRUCTURAL ENGINEERS			DRAWING TITLE STORMWATER DRAINAGE CATCHMENT PLAN DRAWING No C013904.07-S2EW420			ISSUE E		
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LEGENDS:

LS-BP

LANDSCAPE BYPASS

HS

HARDSTAND

PP

PERMEABLE PAVEMENT

LS

LANDSCAPE

R-RW

ROOF TO RAINWATER

RO

ROOF ONLY

C

CREEK/ WATERCOURSE

PRI

PUBLIC ROAD INFRASTRUCTURE

This Design Compliance Certificate applies only to the stormwater drainage lines shown in blue on the stamped plans and OSD Tanks 1, 2, 3A and 3B. All swales, Basin 4, Blacktown Creek works, and any other stormwater infrastructure are excluded from this certificate.

Structural plans and certification for all OSD tanks listed above must be provided prior to installation.

Compliance Certificate

Certificate Number: 250062CC05

Issuing Officer: Sammy Gazal

Registration Number: BDC05310

These plans/specifications form part of the certificate issued: 01/09/2026

BRS

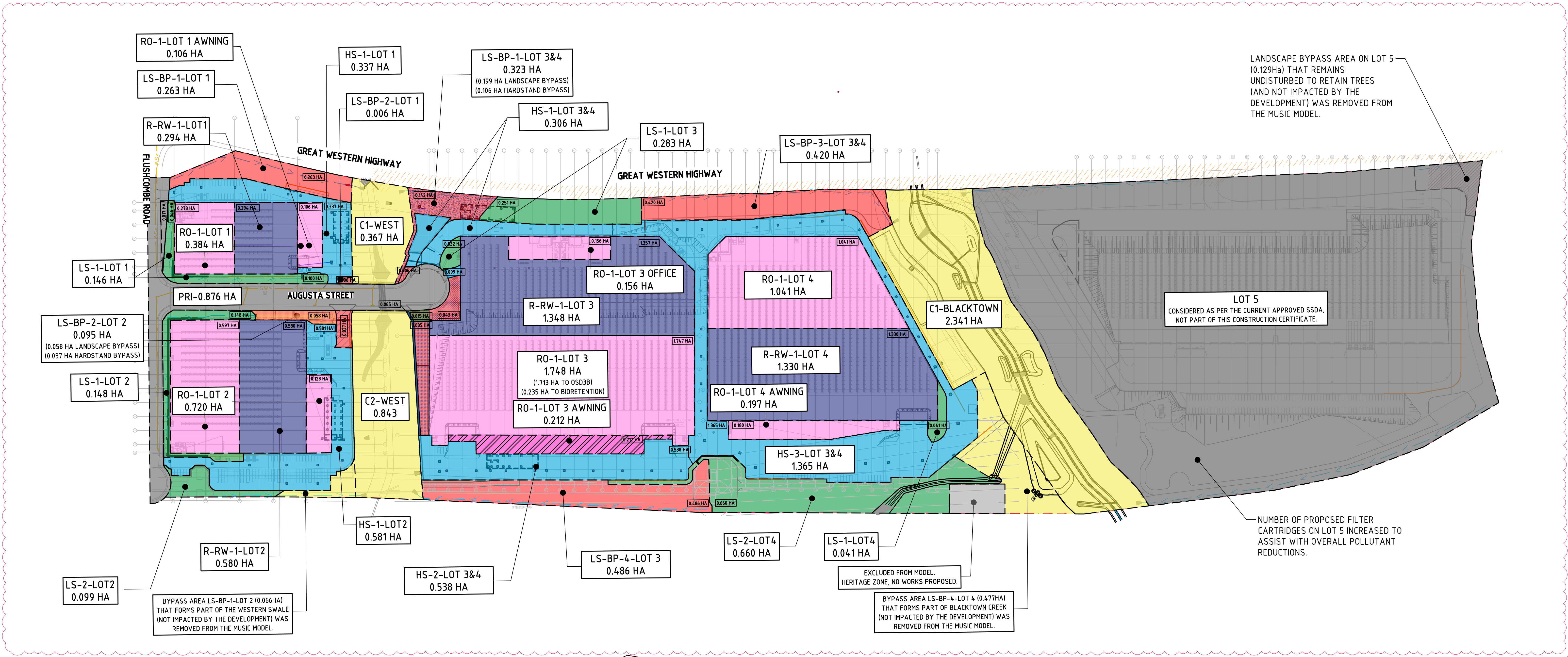
CONSTRUCTION CERTIFICATE

Approved Plans & Specifications relating to:

Date Approved: 03 September 2026

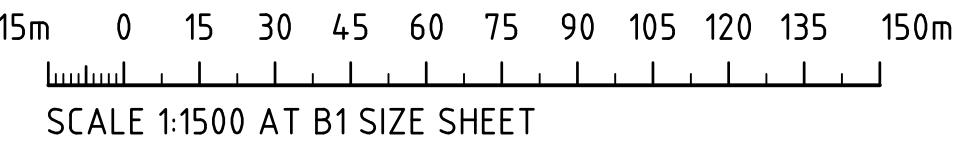
Certificate No.: CC-26113

BM+G



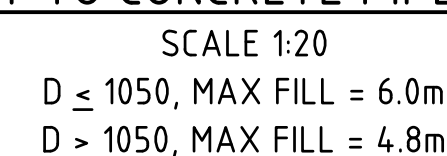
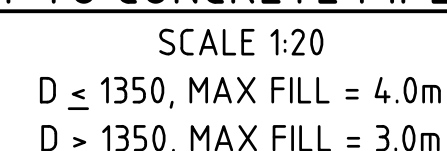
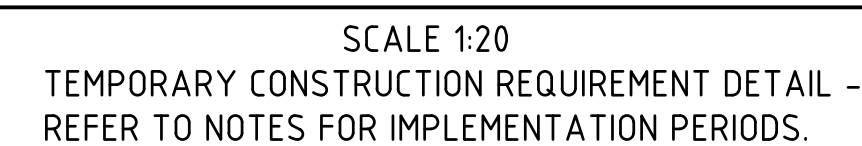
STORMWATER MUSIC CATCHMENT PLAN
SCALE 1:1500

NOTE:
INCREASED POLLUTANT REDUCTION TARGETS TO COMPENSATE FOR EXCLUDED EXTERNAL ROAD RESERVE CATCHMENTS.



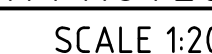
CONSTRUCTION CERTIFICATE

REVISED AS CLOUDED		25.08.26	C	ARCHITECT		CLIENT		BUILDER		PROJECT		COSTIN ROE CONSULTING PTY LTD.		DRAWING TITLE	
ISSUED FOR CONSTRUCTION CERTIFICATE		20.08.26	B							PROPOSED WAREHOUSE DISTRIBUTION		PO Box N419 Sydney NSW 1220		STORMWATER MUSIC CATCHMENT PLAN	
ISSUED FOR CONSTRUCTION CERTIFICATE		04.08.26	A							AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148		Level 4, 8 Windmill Street, Millers Point NSW 2000			
AMENDMENTS		DATE	ISSUE	AMENDMENTS		DATE		DATE		DESIGNED		e: mail@costinroe.com.au		DRAWING No	
										IL		w: costinroe.com.au		C013904.07-S2EW421	
										DRAWN				C	
										NWH					
										JULY 2026					
										CHECKED					
										MW					
										SIZE					
										B1					
										SCALE					
										AS SHOWN					
										CAD REF:					
										C013904.07-S2EW421					



SIDE ZONE WIDTH	
PIPE SIZE (mm)	t_c (mm)
$\leq 900\phi$	150
1050 ϕ	175
1200 ϕ	200
1350 ϕ	225
1500 ϕ	250
1650 ϕ	275
1800 ϕ	300

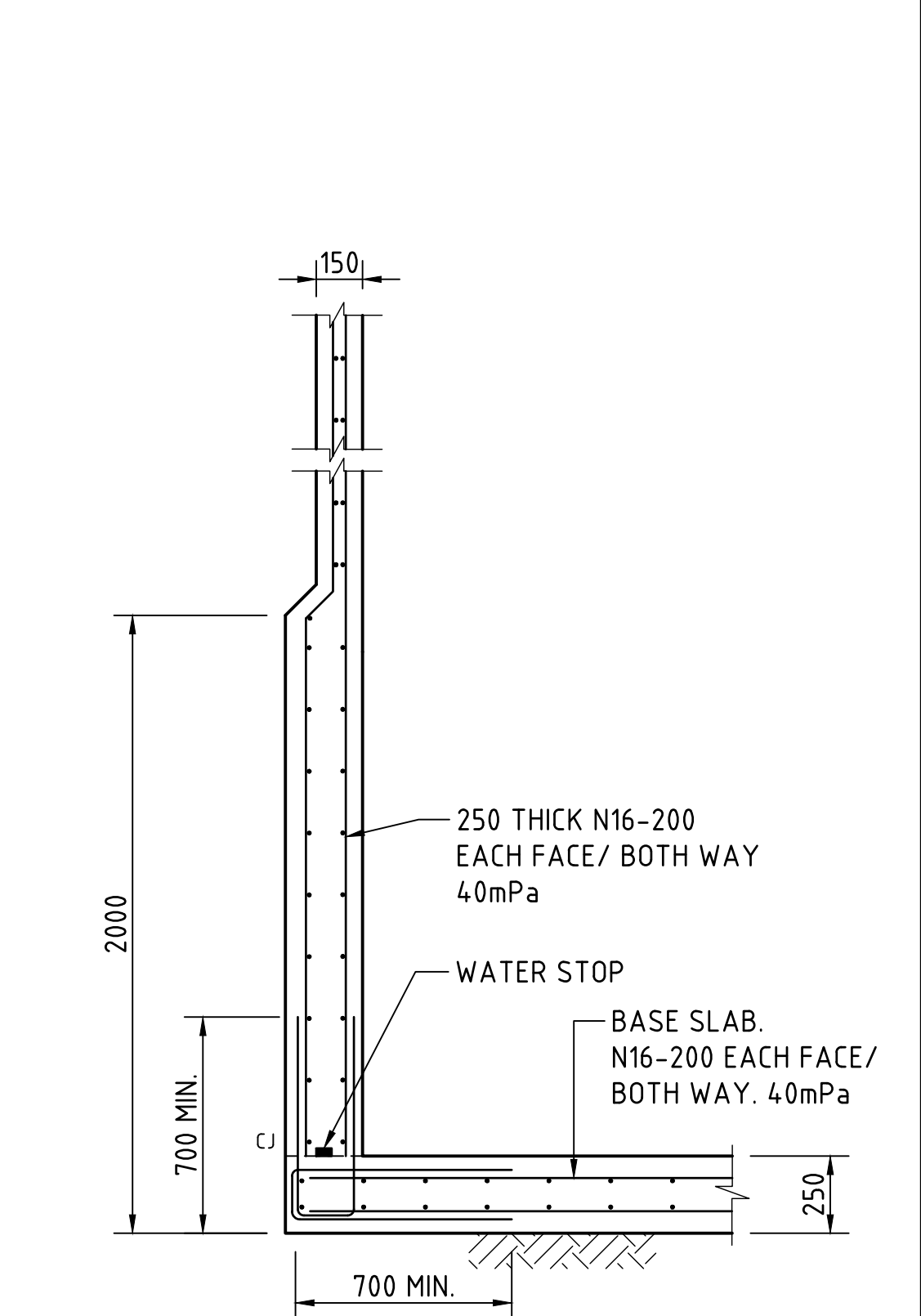
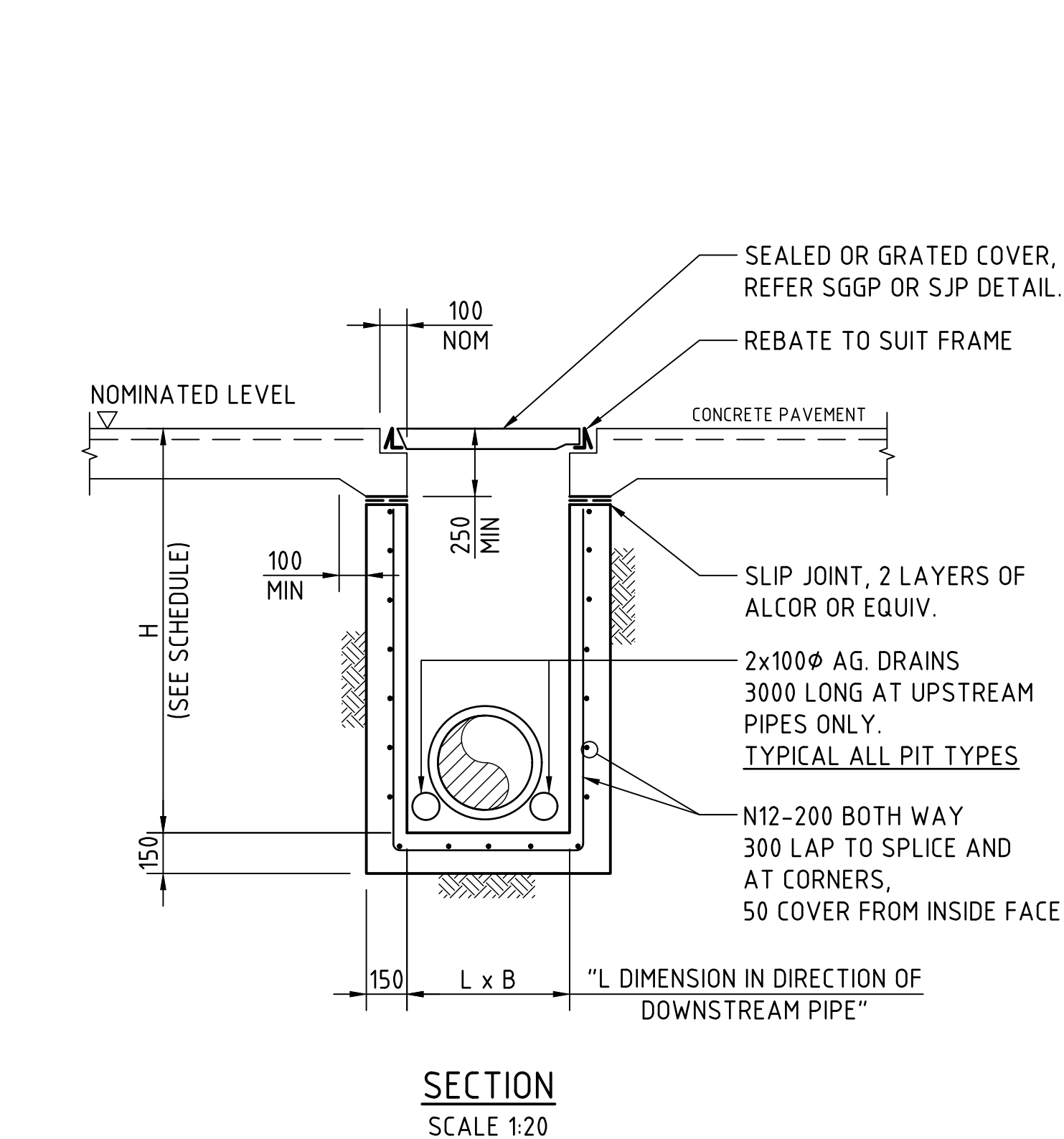
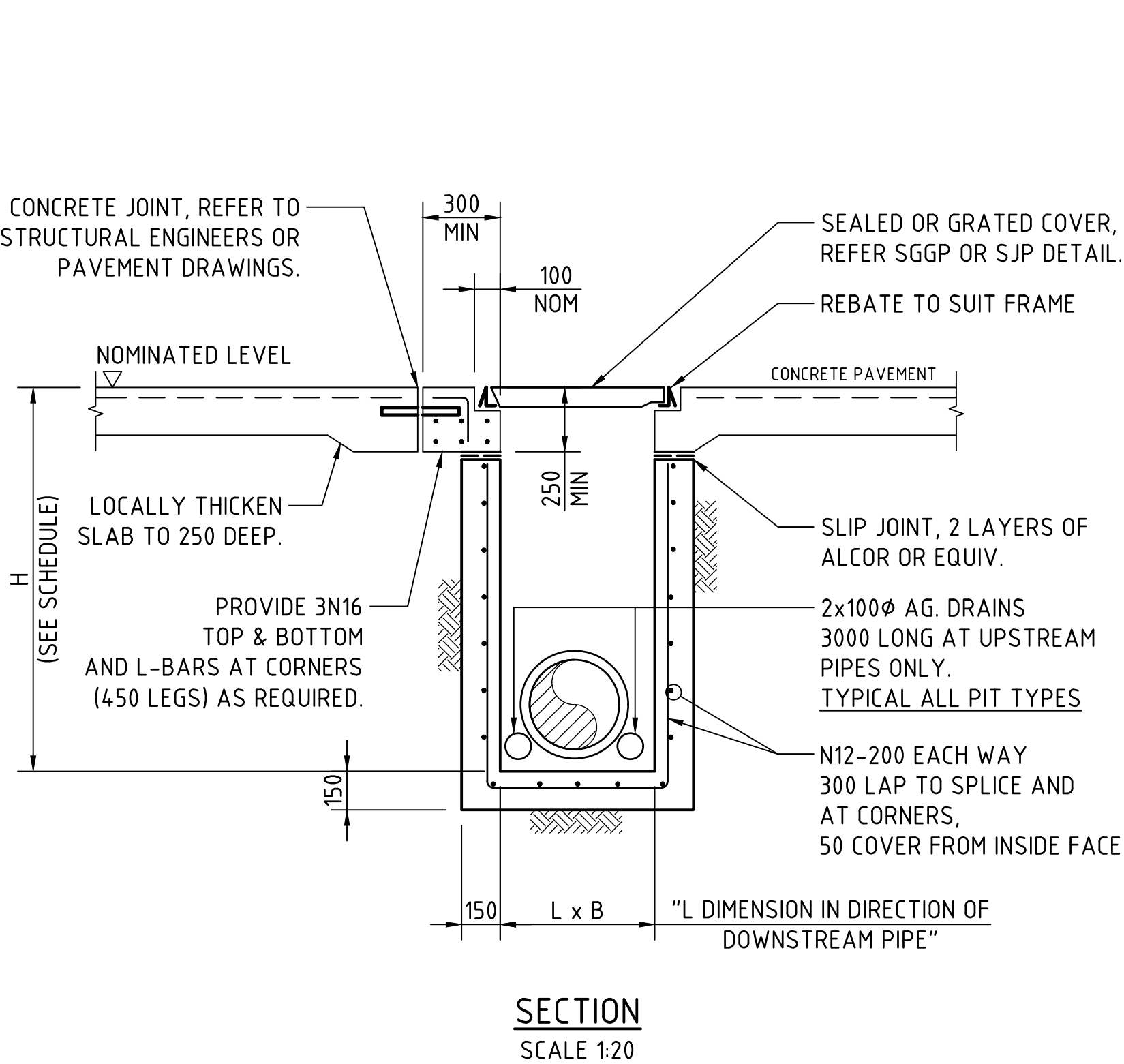
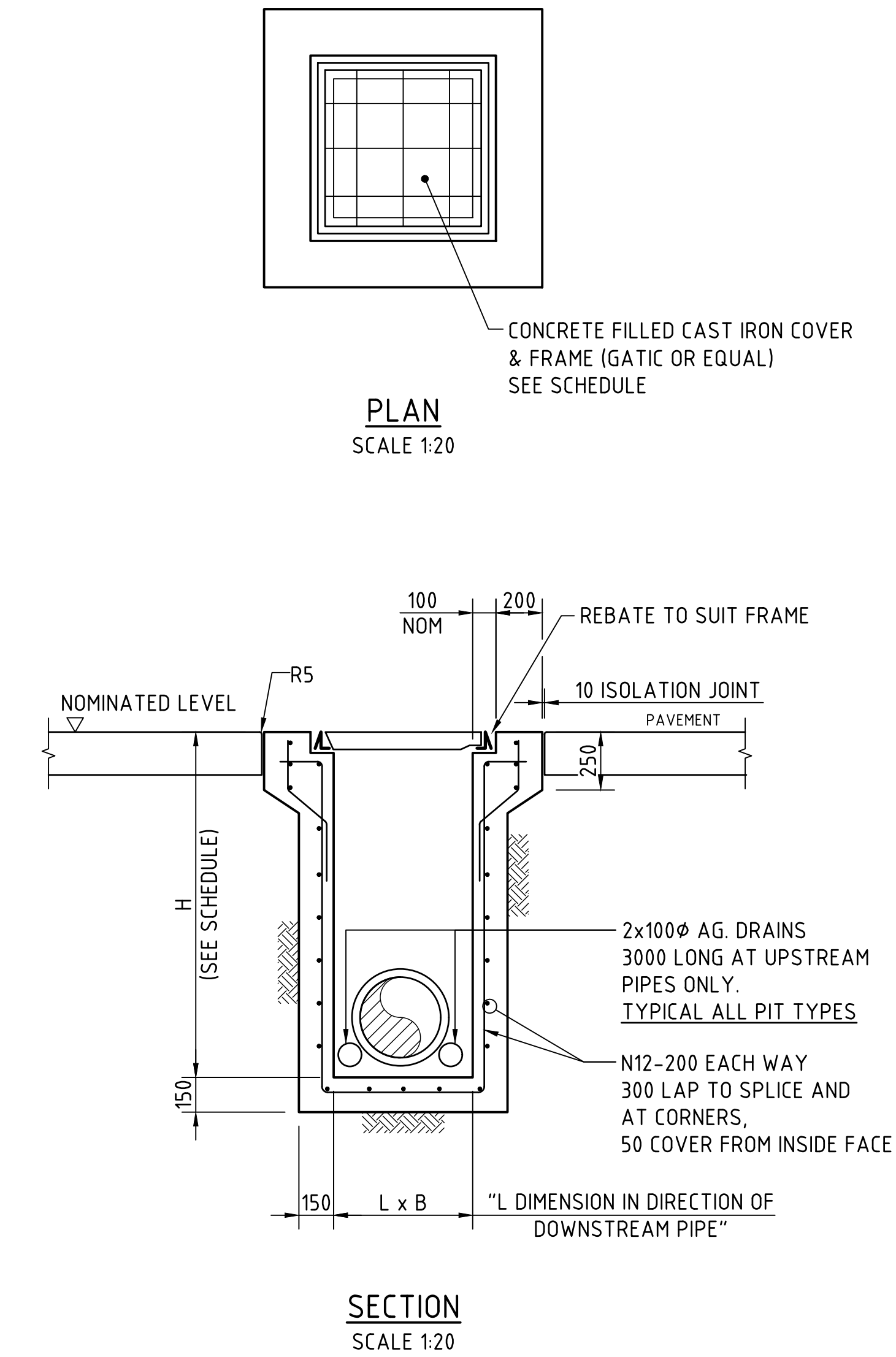
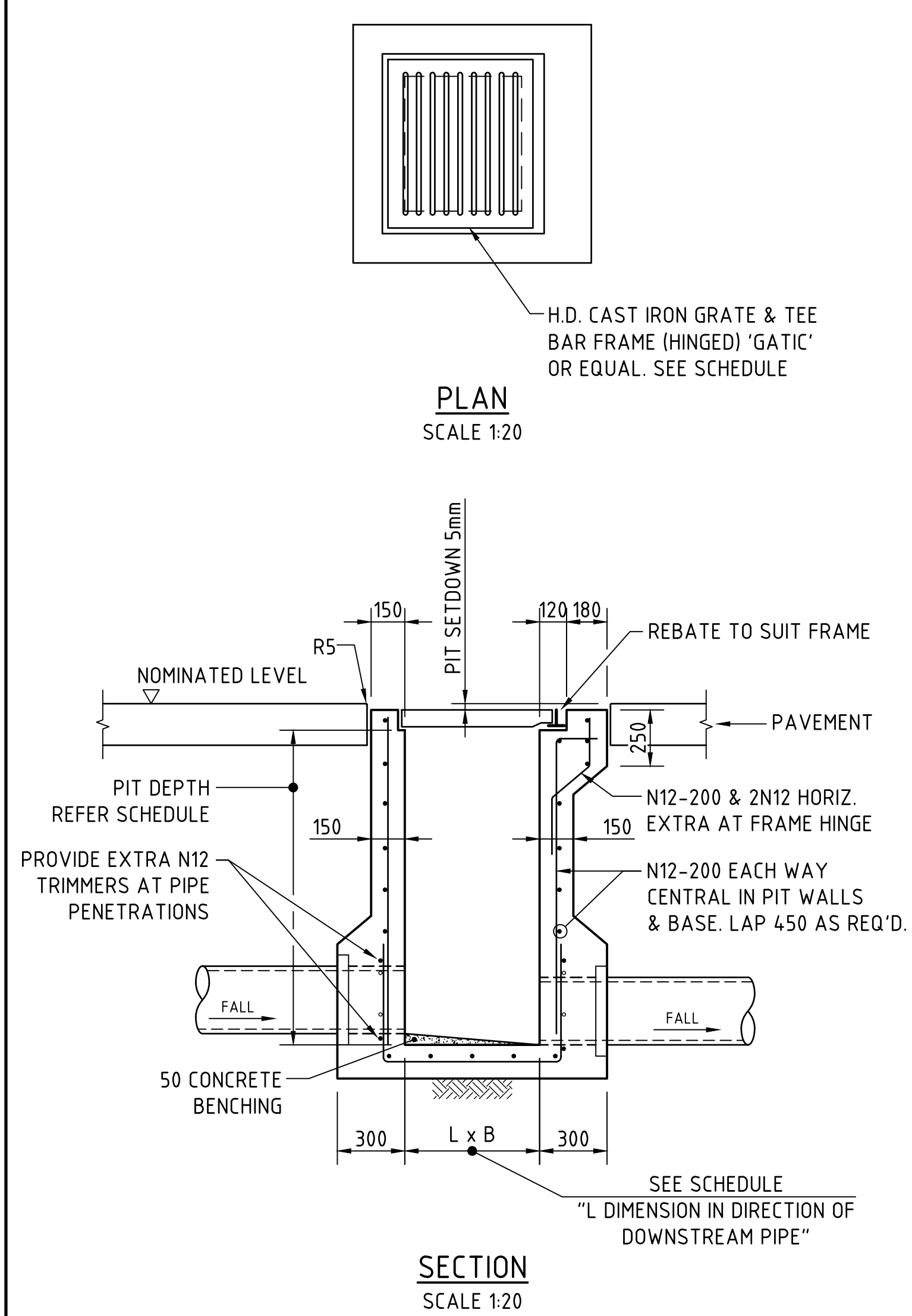
ENGINEER TO SPECIFY TRENCH WIDTHS FOR PIPE SIZES GREATER THAN 1800 ϕ



NOTE:
COVER TO ALL BASE REINFORCEMENT
TO BE MINIMUM 50mm

Structural plans and certification for all OSD tanks listed above must be provided prior to installation.

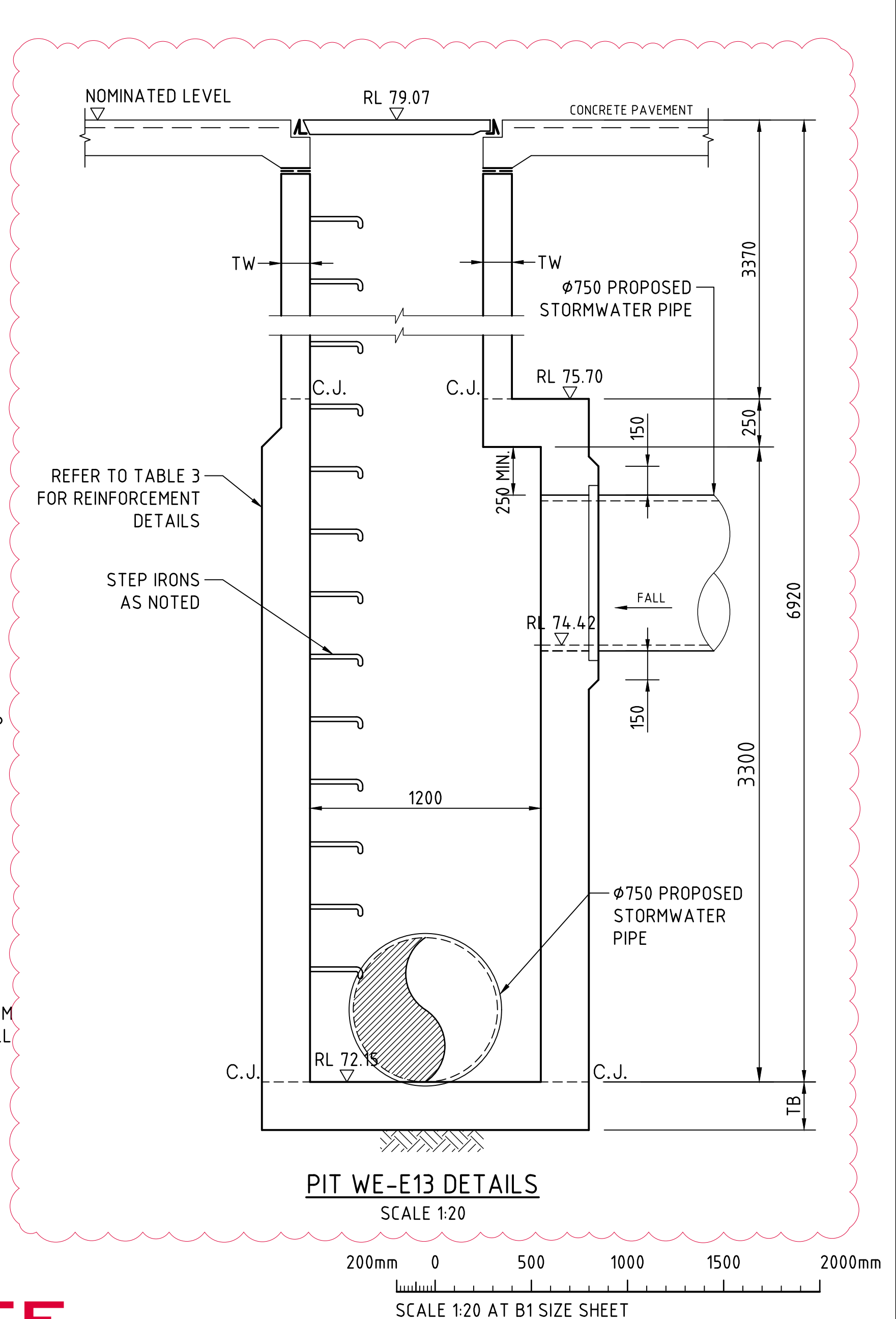
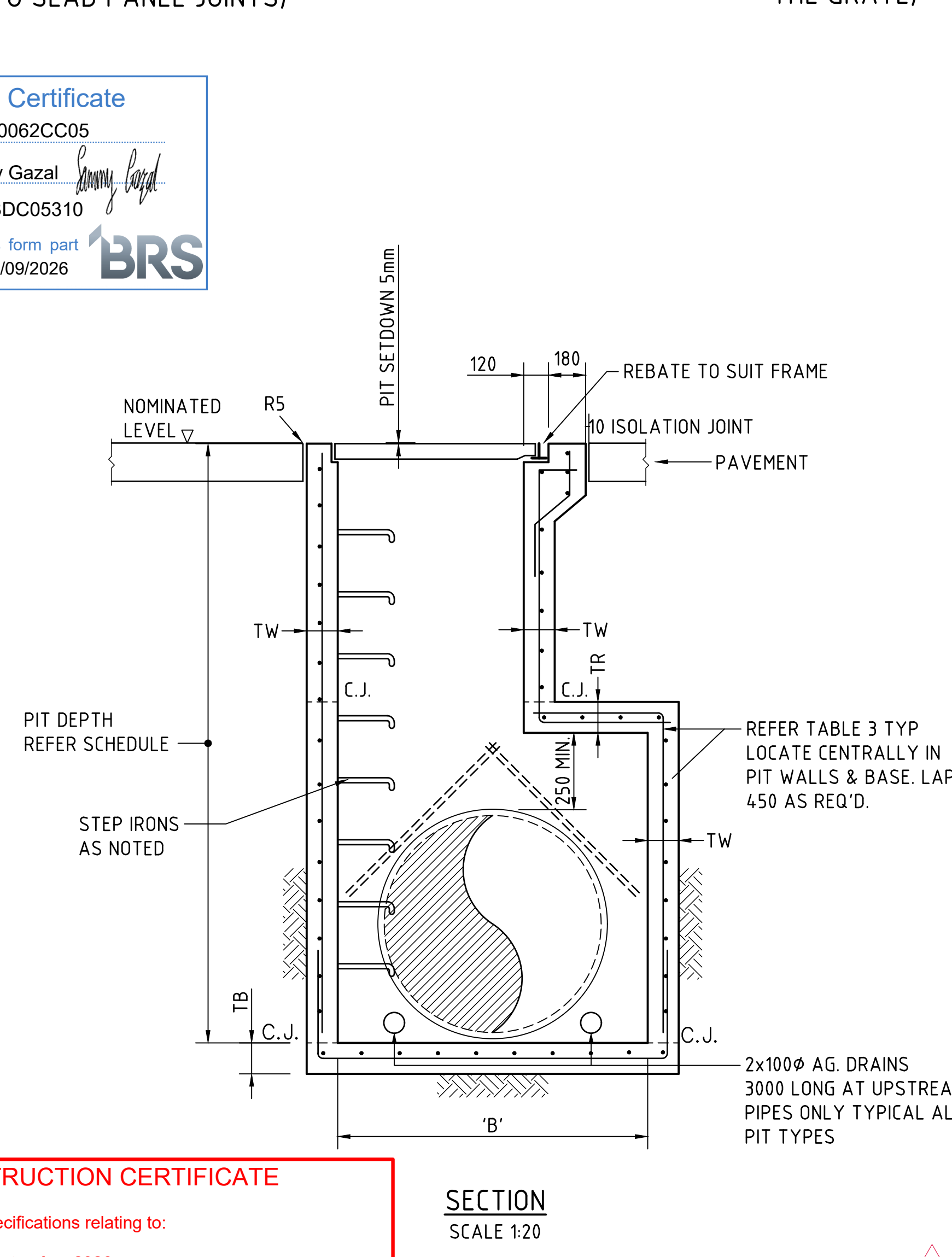
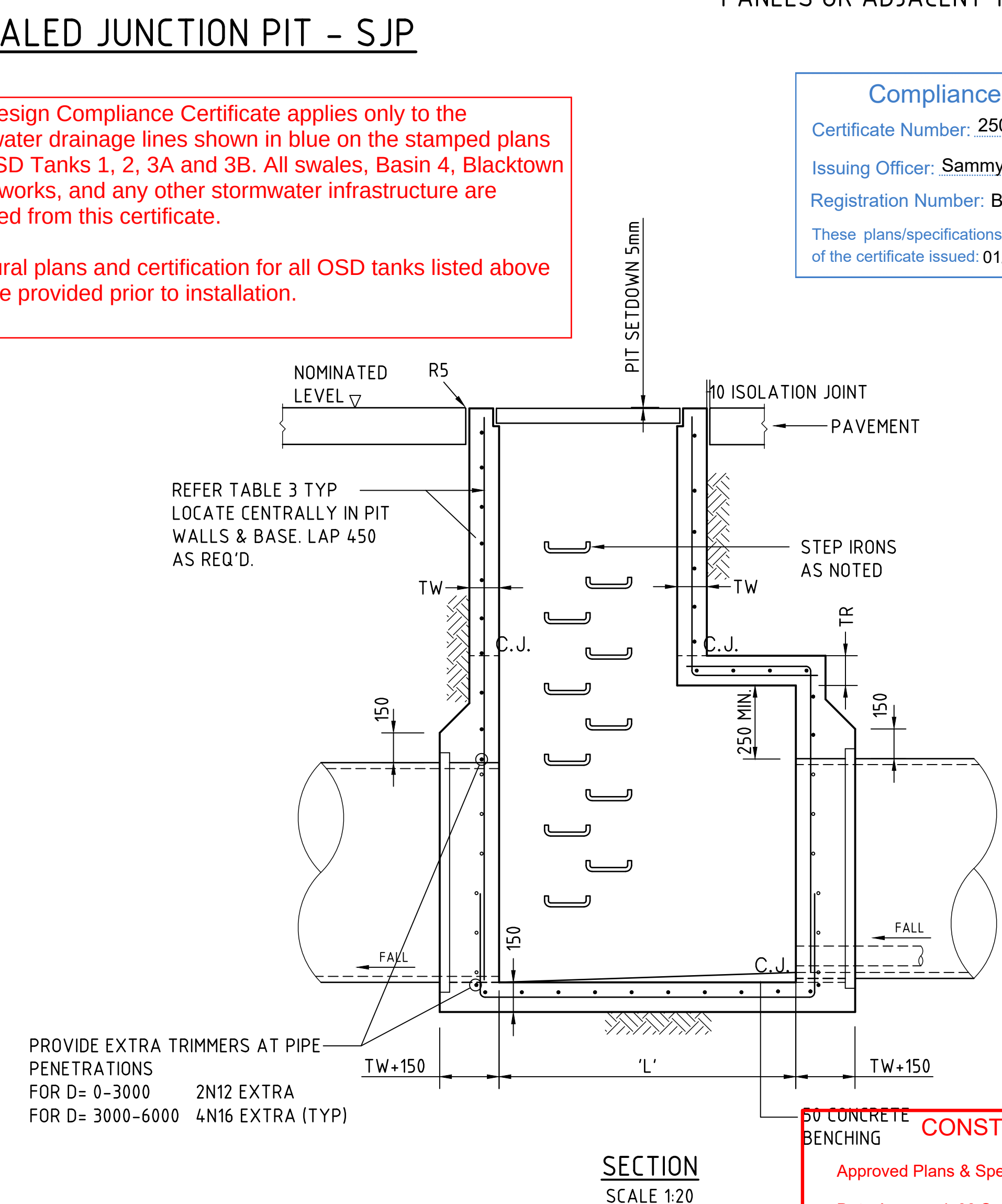
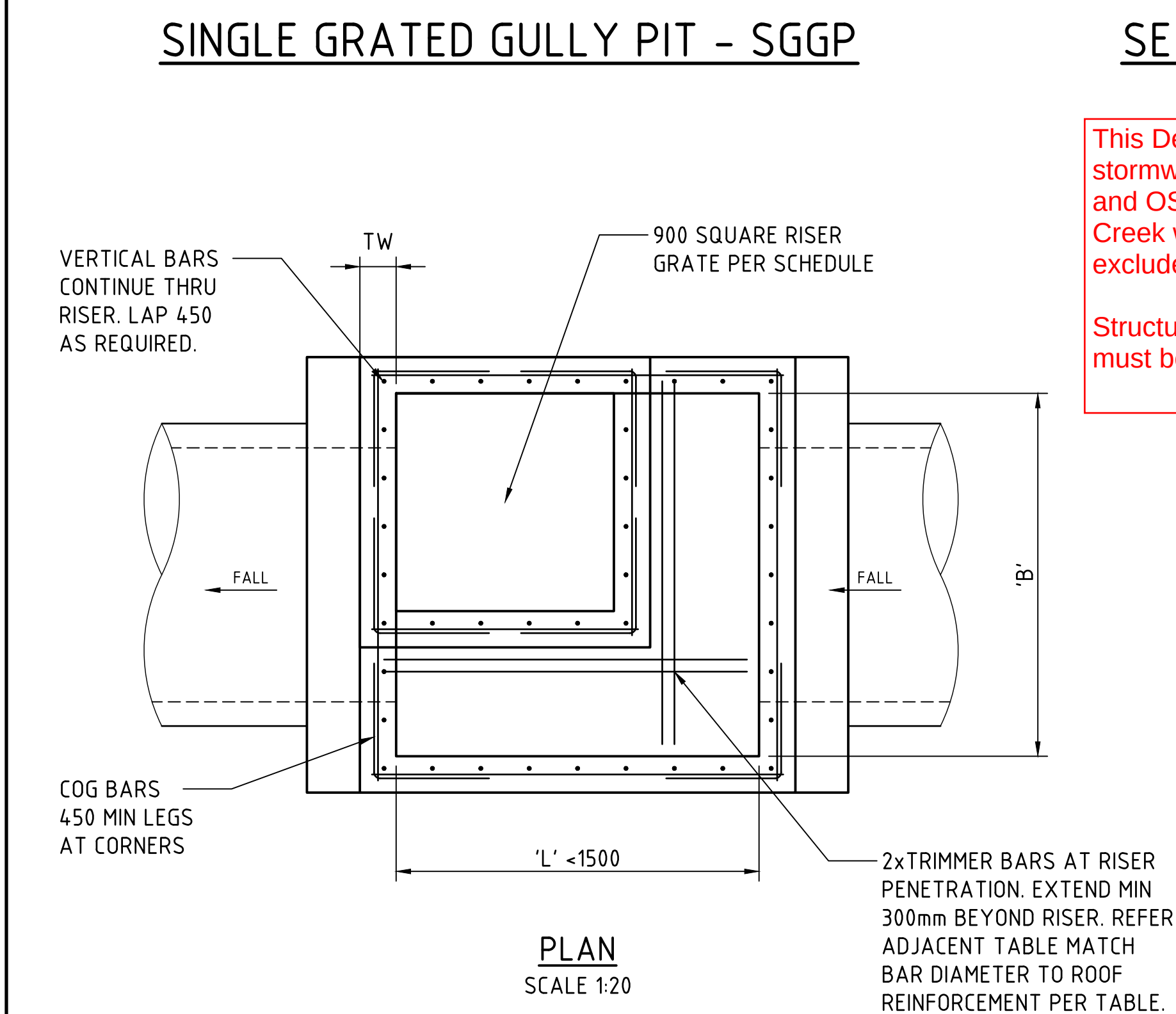
				ARCHITECT  p: 02 9529 9588 e: info@sba.au w: www.sba.au		CLIENT 		BUILDER 		PROJECT PROPOSED WAREHOUSE DISTRIBUTION AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148				Costin Roe Consulting Pty Ltd. ABN 50 003 696 446 PO Box N419 Sydney NSW 1220 Level 4, 8 Windmill Street, Millers Point NSW 2000 p: +61 2 9251 7699 f: +61 2 9241 3731 e: mail@costinroe.com.au w: costinroe.com.au				DRAWING TITLE STORMWATER DRAINAGE TYPICAL DETAILS - SHEET 1	
ISSUED FOR CCIE 29.06.26 B ISSUED FOR PRELIMINARY 25.06.26 A AMENDMENTS DATE ISSUE				AMENDMENTS DATE ISSUE		DESIGNED L.D.W. J.K.P. DATE 01 MAY 2026 CHECKED M.W. B.L. SCALE AS SHOWN CAD REF: C013904-07-S2EW450		DRAWING NO C013904-07-S2EW450		ISSUE R									



SJP/CIS & SGGP/CIS (CAST IN SLAB)
PIT DETAIL
GRATE/COVER SUPPORT
CAST-INTO PAVEMENT SLAB
 (ADOPT IN CONCRETE PAVEMENT FOR SGGP's & SJP's, WHERE PITS ARE LOCATED IN THE CORNER OF SLAB PANELS OR ADJACENT TO SLAB PANEL JOINTS)

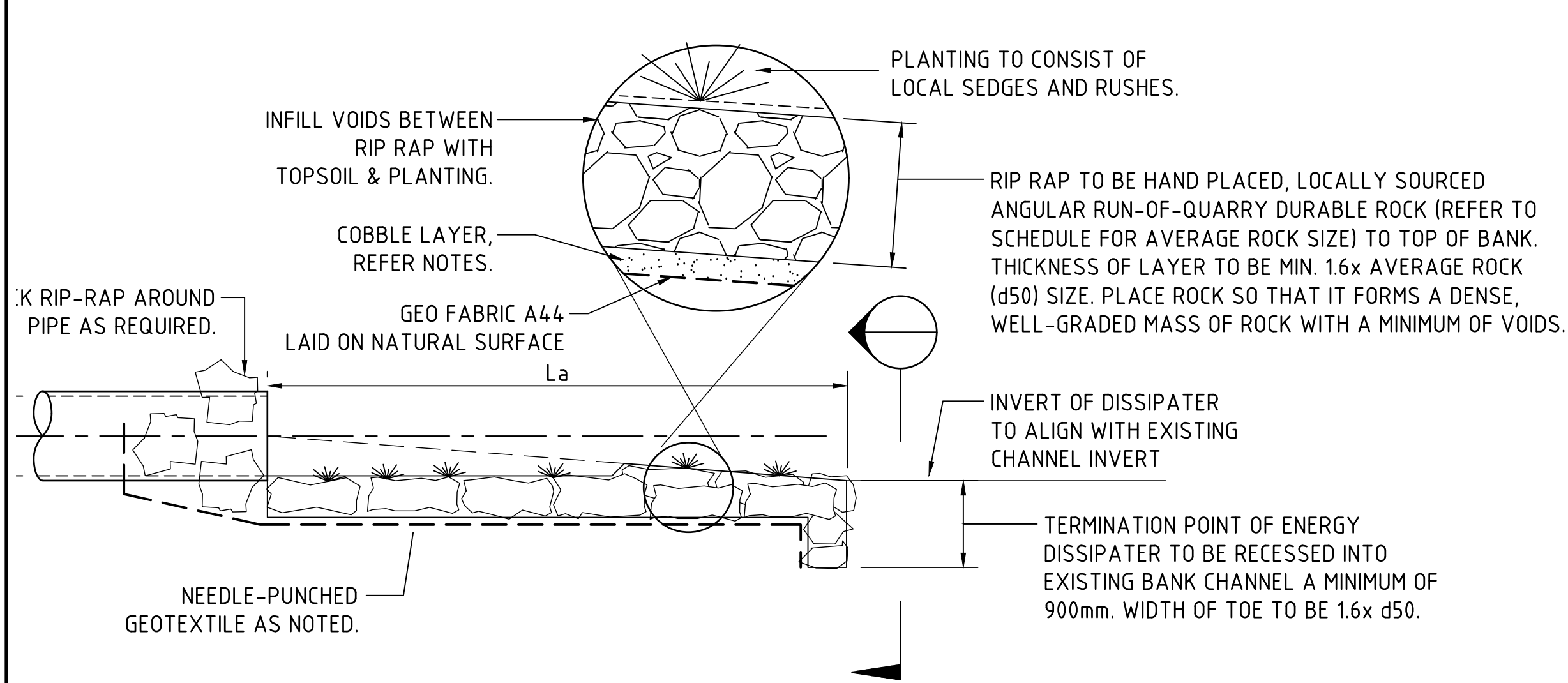
SJP/CIS & SGGP/CIS (CAST IN SLAB)
PIT DETAIL
GRATE/COVER SUPPORT
CAST-INTO PAVEMENT SLAB
 (ADOPT IN CONCRETE PAVEMENTS FOR SGGP's & SJP's, WHERE JOINTS ARE NOT LOCATED WITHIN PROXIMITY OF THE GRATE)

TYPICAL PIT BASE
REINFORCEMENT DETAIL FOR
PITS DEEPER THAN 4.5m
 SCALE 1:20

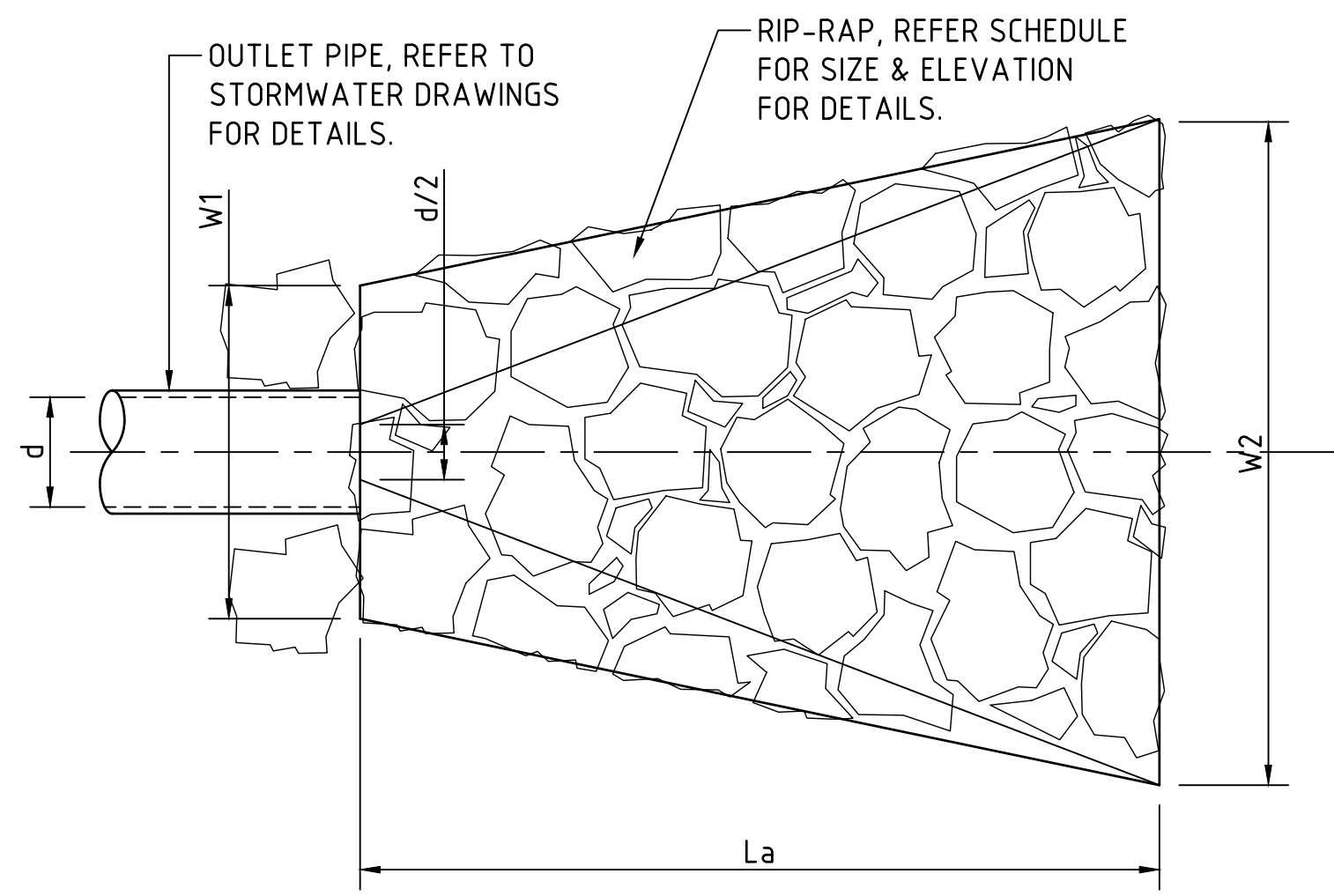


TAPERED SINGLE GRATED GULLY PIT - SGGP
 SUBSOIL NOT SHOWN FOR CLARITY.

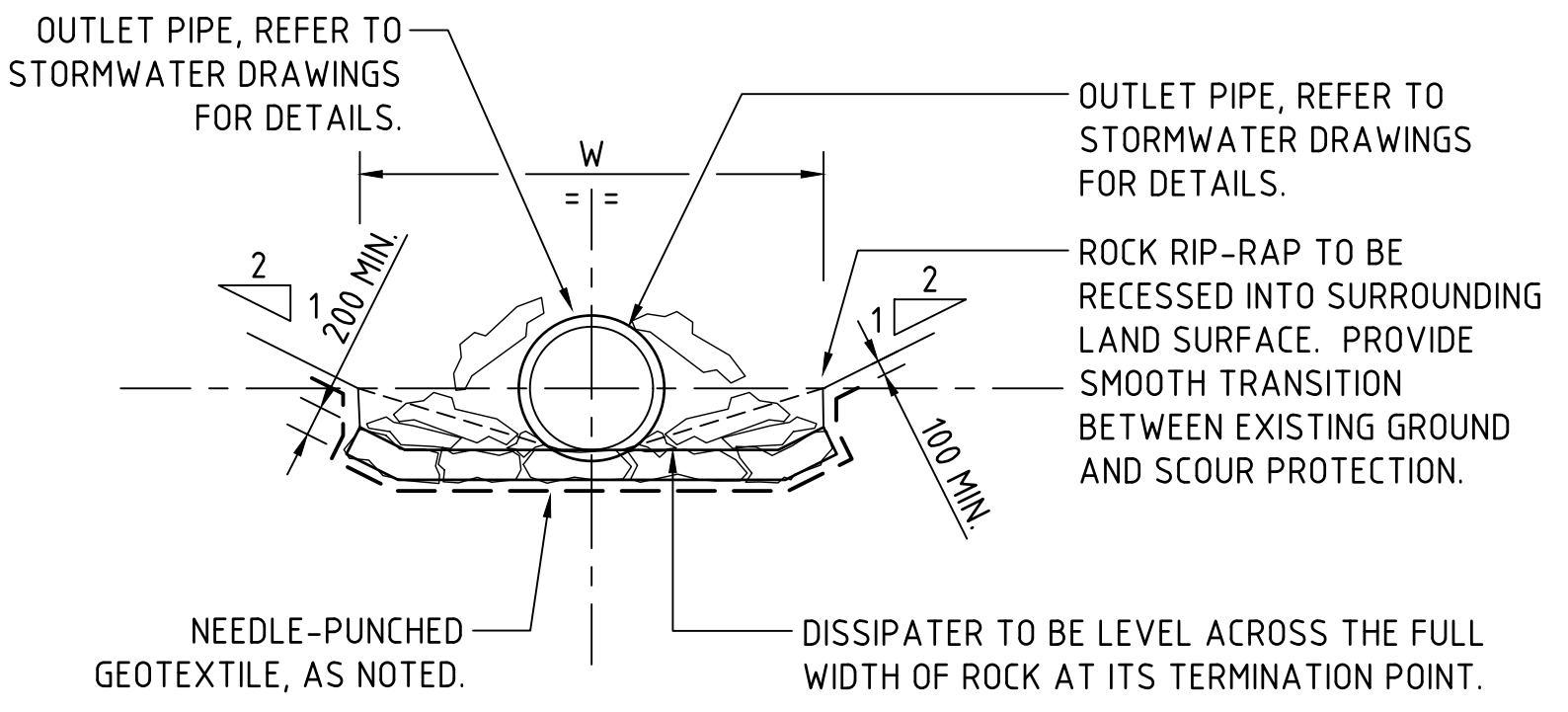
TABLE 3 - TAPERED CLASS D PIT REINFORCEMENT & WALL THICKNESS						
DEPTH 'H'	WALL THICKNESS 'TW'	WALL REINFORCEMENT	ROOF THICKNESS 'TR'	ROOF REINFORCEMENT	BASE THICKNESS 'TB'	BASE REINFORCEMENT
<1.5m	150mm	N12-200 EACH WAY	150mm	N12-200 EACH WAY	150mm	N12-200 EACH WAY
1.5m-3.0m	150mm	N12-200 EACH WAY	150mm	N12-200 EACH WAY	150mm	N12-200 EACH WAY
3.0m-4.5m	200mm	N16-200 EACH WAY	200mm	N16-200 EACH WAY	200mm	N12-200 EACH WAY
4.5-6.0 (INCLUDING PIT W3-E13)	250mm	N16-200 EACH WAY	250mm	N16-200 EACH WAY	250mm	N16-200 EACH WAY



ELEVATION
SCALE 1:50



PLAN
SCALE 1:50



SECTION 1:50 1

- DISSIPATER NOTES:**
1. ALIGN STRUCTURE EVENLY WITH BANK.
 2. LOCATE STRUCTURE AT INVERT LEVEL OF STREAM AND POINT IN A DOWNSTREAM DIRECTION.
 3. PIPE TO REST ON, AND BE PACKED IN, BY RIP-RAP (SIZE AS NOTED).
 4. DISCHARGE INTO STREAM WHERE BEDROCK IS PRESENT, OTHERWISE SCOUR PROTECT AS REQUIRED.
 5. SCOUR PROTECT THE OPPOSITE BANK AS REQUIRED. SCOUR PROTECTION TO BE PROVIDED WHERE OPPOSITE BANK IS WITHIN 12-14 TIMES THE PIPE DIAMETER.
 6. RIP-RAP TO CONSIST OF ANGULAR RUN-OF-QUARRY ROCK (d50= 150mm MINIMUM) AS NOTED IN THE SCHEDULE. RIP-RAP TO BE MINIMUM THICKNESS OF RIP-RAP LAYER TO BE 1.6x AVERAGE ROCK SIZE (d50).
 7. RIP-RAP IS TO BE PLACED OVER A 200mm LAYER OF 140mm COBBLES OVER NEEDLE-PUNCHED GEOFAB A44.
 8. PLACE ROCK SO THAT IT FORMS A DENSE, WELL-GRADED MASS OF ROCK WITH A MINIMUM OF VOIDS. THE FINISHED RIP-RAP SURFACE SHOULD BE FREE OF POCKETS OF SMALL ROCK OR CLUSTERS OF LARGE ROCKS.
 9. GAPS IN RIP-RAP TO BE HAND PACKED WITH TOPSOIL & PLANTED WITH NATIVE SEDGES & RUSHES TO PROVIDE. THE INTENT IS FOR THERE TO BE NO VOIDS BETWEEN RIP-RAP BOULDERS.
 10. ENSURE THE FINISHED ROCK SURFACE BLENDS WITH THE SURROUNDING GROUND LEVELS. NO OVERFALL OR PROTRUSION OF ROCK SHOULD BE APPARENT.
 11. ENSURE THAT STORMWATER FROM SURROUNDING GROUND IS FREE TO ENTER THE STRUCTURE WITHOUT CAUSING UNDESIRABLE PONDING OR SCOUR.

DISSIPATER SCHEDULE					
ENERGY DISSIPATER	DIAMETER(mm)/DIMENSIONS	LENGTH La (mm)	WIDTH 1 (mm)	WIDTH 2 (mm)	RIP-RAP (d50)
1	WIDTH 4m, DEPTH 0.5m	2000	4600	4800	200
2	WIDTH 4m, DEPTH 0.5m	2000	4600	4800	200
3	450ø	1800	1100	1200	200
4	600ø	4500	1400	2600	100
5	4x825ø	3000	4000	4000	200
6	OVERLAND FLOW	3000	4000	4000	200
7	825ø	3300	1500	2200	100
8	825ø	5000	1500	2900	200
9	WIDTH 4m, DEPTH 0.5m	2000	4600	4800	200
10	WIDTH 4m, DEPTH 0.5m	2000	4600	4800	200
11	600ø	3600	1200	2100	200
12	900ø	3600	1500	2400	100
13	OVERLAND FLOW	2700	5600	6100	200
14	750ø	7500	1400	3800	500
15	375ø	7500	1400	3800	500
16	OVERLAND FLOW	5600	5200	6800	200
17	OVERLAND FLOW	2700	4000	4500	200
18	900ø	7200	1500	3800	300
19	OVERLAND FLOW	2700	4000	4500	200
20	300ø AND 900ø	7200	1800	4100	200
21	WIDTH 4m, DEPTH 0.5m	2000	4600	4800	200
22	OVERLAND FLOW	2700	10600	11100	400
23	OVERLAND FLOW	2700	5600	6100	200
24	OVERLAND FLOW	2700	4000	4500	200
25	WIDTH 4m, DEPTH 0.5m	2000	4600	4800	200
26	525ø AND WIDTH 4m, DEPTH 0.5m	5600	5200	6800	100

CONSTRUCTION CERTIFICATE

Approved Plans & Specifications relating to:

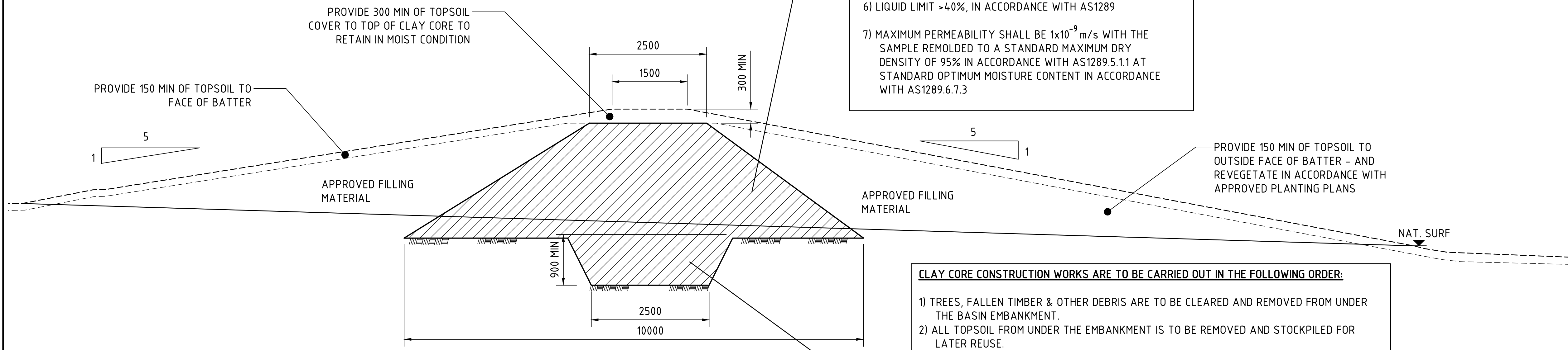
Date Approved: **03 September 2026**

Certificate No.: CC-26113

BM+G

STORMWATER OUTLET DISSIPATER

- CLAY CORE MATERIAL COMPLIANCE NOTES:**
- 1) THE MATERIAL SHALL BE FREE OF ROCK GREATER THAN 50mm IN ANY DIRECTION.
 - 2) THE MATERIAL SHALL BE GENERALLY FREE OF TOPSOIL, ORGANIC AND ROOT MATTER.
 - 3) THE MATERIAL SHALL HAVE NO MORE THAN 10% EXCEEDING 19mm PARTICLE SIZE.
 - 4) THE MATERIAL SHALL HAVE THE PERCENTAGE FINE (PASSING 0.075mm SIEVE) MORE THAN 50 % (IN ACCORDANCE WITH AS1289)
 - 5) THE PLASTICITY INDEX >20%, IN ACCORDANCE WITH AS1289
 - 6) LIQUID LIMIT >40%, IN ACCORDANCE WITH AS1289
 - 7) MAXIMUM PERMEABILITY SHALL BE 1×10^{-9} m/s WITH THE SAMPLE REMOLDED TO A STANDARD MAXIMUM DRY DENSITY OF 95% IN ACCORDANCE WITH AS1289.5.1.1 AT STANDARD OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH AS1289.6.7.3

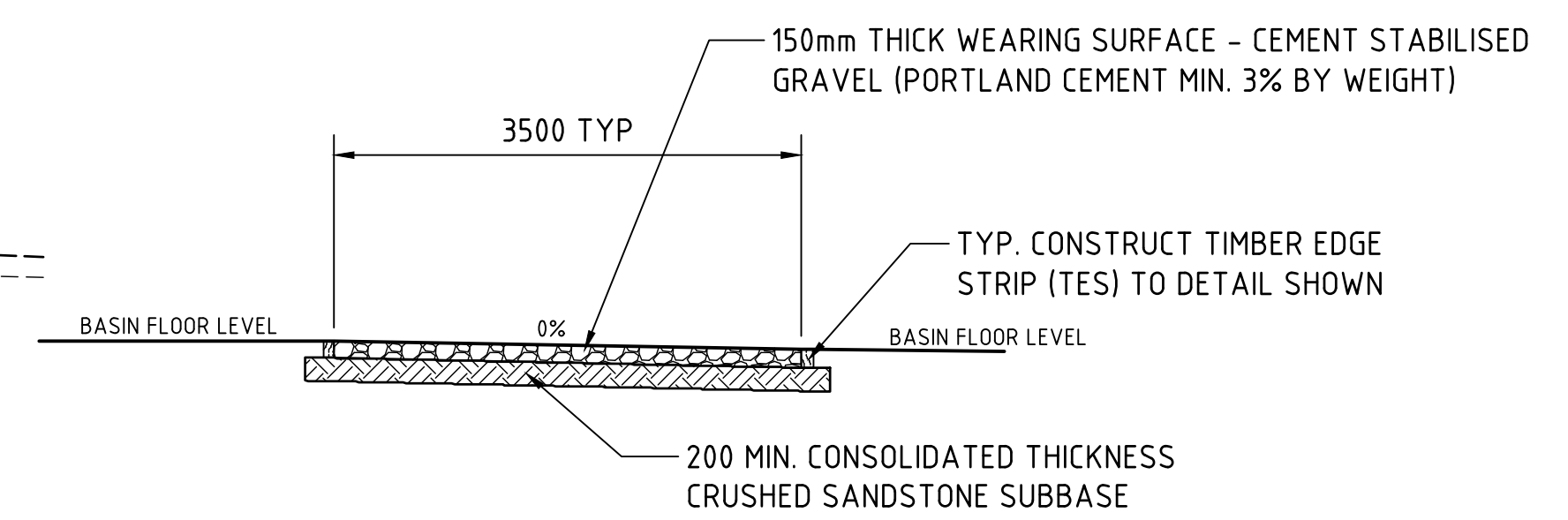


TYPICAL DETAIL - BASIN CLAY CORE AND EMBANKMENT
SCALE 1:50

This Design Compliance Certificate applies only to the stormwater drainage lines shown in blue on the stamped plans and OSD Tanks 1, 2, 3A and 3B. All swales, Basin 4, Blacktown Creek works, and any other stormwater infrastructure are excluded from this certificate.

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- CLAY CORE CONSTRUCTION WORKS ARE TO BE CARRIED OUT IN THE FOLLOWING ORDER:**
- 1) TREES, FALLEN TIMBER & OTHER DEBRIS ARE TO BE CLEARED AND REMOVED FROM UNDER THE BASIN EMBANKMENT.
 - 2) ALL TOPSOIL FROM UNDER THE EMBANKMENT IS TO BE REMOVED AND STOCKPILED FOR LATER REUSE.
 - 3) OVERBURDEN FROM UNDER THE EMBANKMENT IS TO BE REMOVED UNTIL FIRM CLAY OR BEDROCK IS HAS BEEN EXPOSED.
 - 4) A CORE TRENCH OF AT LEAST 900mm DEEP IS TO BE EXCAVATED INTO IMPERMEABLE, STABLE FOUNDATION MATERIAL CONSISTING OF EITHER CLAY OR BEDROCK.
 - 5) THE STRIPPED AREA BELOW THE EMBANKMENT IS TO BE SLIGHTLY SCARIFIED TO A DEPTH NOT EXCEEDING 100mm.
 - 6) THE CLAY CORE MUST BE CENTRALLY PLACED AND EXTEND FOR THE FULL LENGTH AND HEIGHT OF THE BANK.
 - 7) CLAY CORE TO BE LAYED IN LIFTS OF NO MORE THAN 250mm, EACH LAYER IS TO BE COMPACTED WITH A SHEEPS FOOT ROLLER, TO ACHIEVE A MIN DRY DENSITY RATIO OF AT LEAST 95% STANDARD (IN ACCORDANCE WITH AS1289.5.1.1 AND 5.4.1) OR MINIMUM HILF DENSITY RATIO OF 95% (IN ACCORDANCE WITH AS1289.5.7.1) AT MOISTURE CONTENT WITHIN THE RANGE OF 0-35% (WET) OF THE STANDARD OPTIMUM MOISTURE CONTENT.
 - 8) THE COMPLETED CORE AND EMBANKMENT SHOULD BE BUILT 5% HIGHER THAN SPECIFIED, ALLOW FOR SETTLEMENT.
 - 9) UPON COMPLETION OF EACH STAGE OF THE CLAY CORE CONSTRUCTION, THE EXPOSED CLAY SURFACE IF THE CORE SHALL BE LIMITED FROM TRAFFIC MOVEMENTS AND MAINTAINED IN MOIST CONDITION UNTIL IT IS FULLY COVERED BY THE NEXT LAYER. IF THE SURFACE OF THE PREVIOUS PLACED LAYER HAS DRIED OUT OR WETTED UP EXCESSIVELY, THE MATERIAL IN THE AFFECTED AREA SHALL BE EXCAVATED AND CONDITIONED TO MOISTURE WITHIN THE SPECIFIED TOLERANCE OR DISCARDED.



TYPICAL DETAIL - MAINTENANCE ACCESS
DRIVE PAVEMENT CONSTRUCTION
SCALE 1:50

Compliance Certificate

Certificate Number: 250062CC05

Issuing Officer: Sammy Gazal

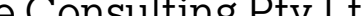
Registration Number: BDC05310

These plans/specifications form part of the certificate issued: 01/09/2026

BRS

500mm 0 1 2 3 4 5m
SCALE 1:50 AT B1 SIZE SHEET

CONSTRUCTION CERTIFICATE

															PROJECT PROPOSED WAREHOUSE DISTRIBUTION AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148						Costin Roe Consulting Pty Ltd. ABN 50 003 696 446			 COSTIN ROE CONSULTING						DRAWING TITLE STORMWATER DRAINAGE TYPICAL DETAILS - SHEET 3								
ISSUED FOR CCIE			29.06.26			B												PO Box N419 Sydney NSW 1220 Level 4, 8 Windmill Street, Millers Point NSW 2000 p: +61 2 9251 7699 f: +61 2 9241 3731 e: mail@costinroe.com.au w: costinroe.com.au																				
ISSUED FOR PRELIMINARY			25.06.26			A																																
AMENDMENTS			DATE			ISSUE			AMENDMENTS			DATE			ISSUE												DRAWING No			C013904.07-S2EW452			ISSUE			B		

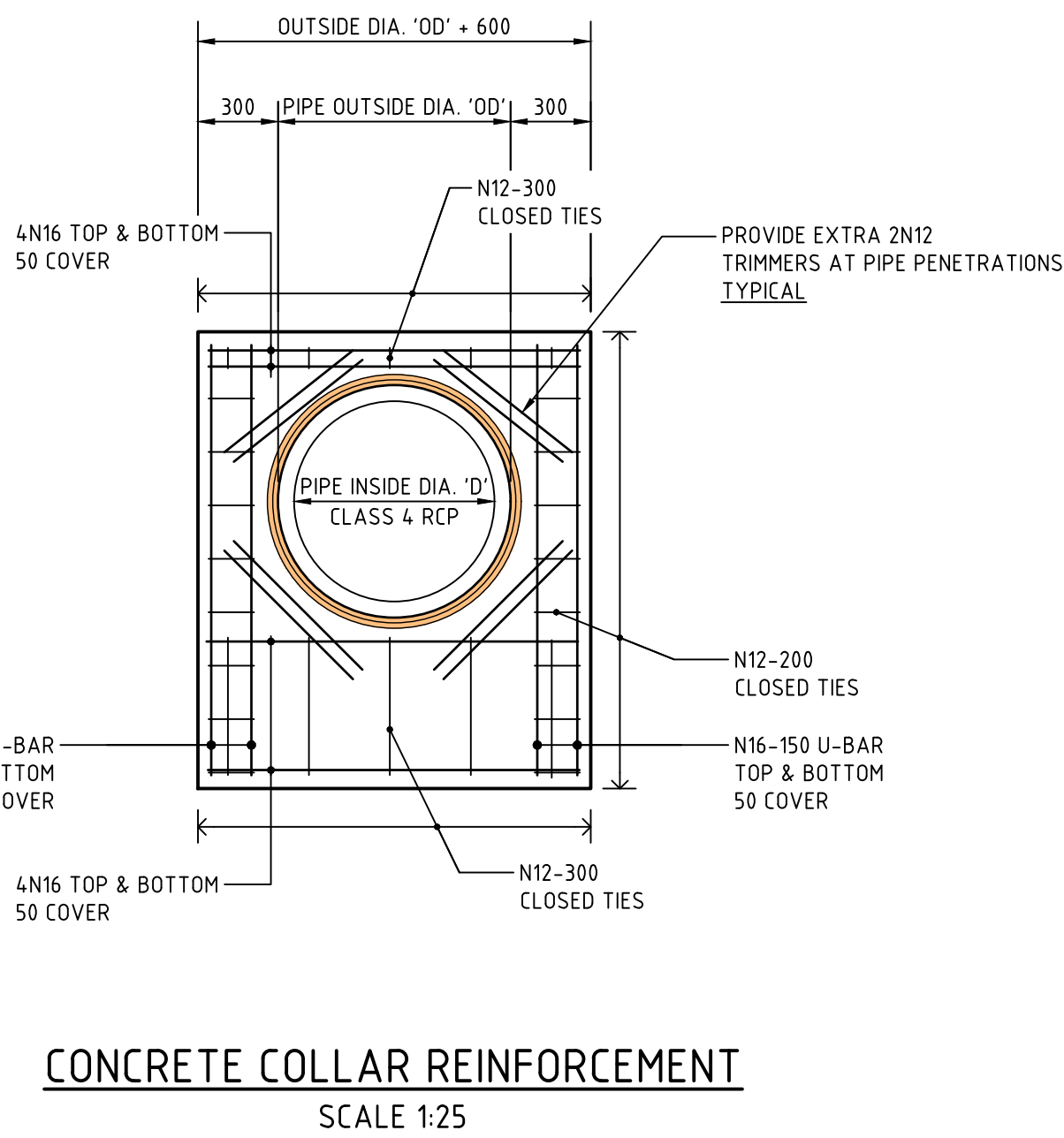
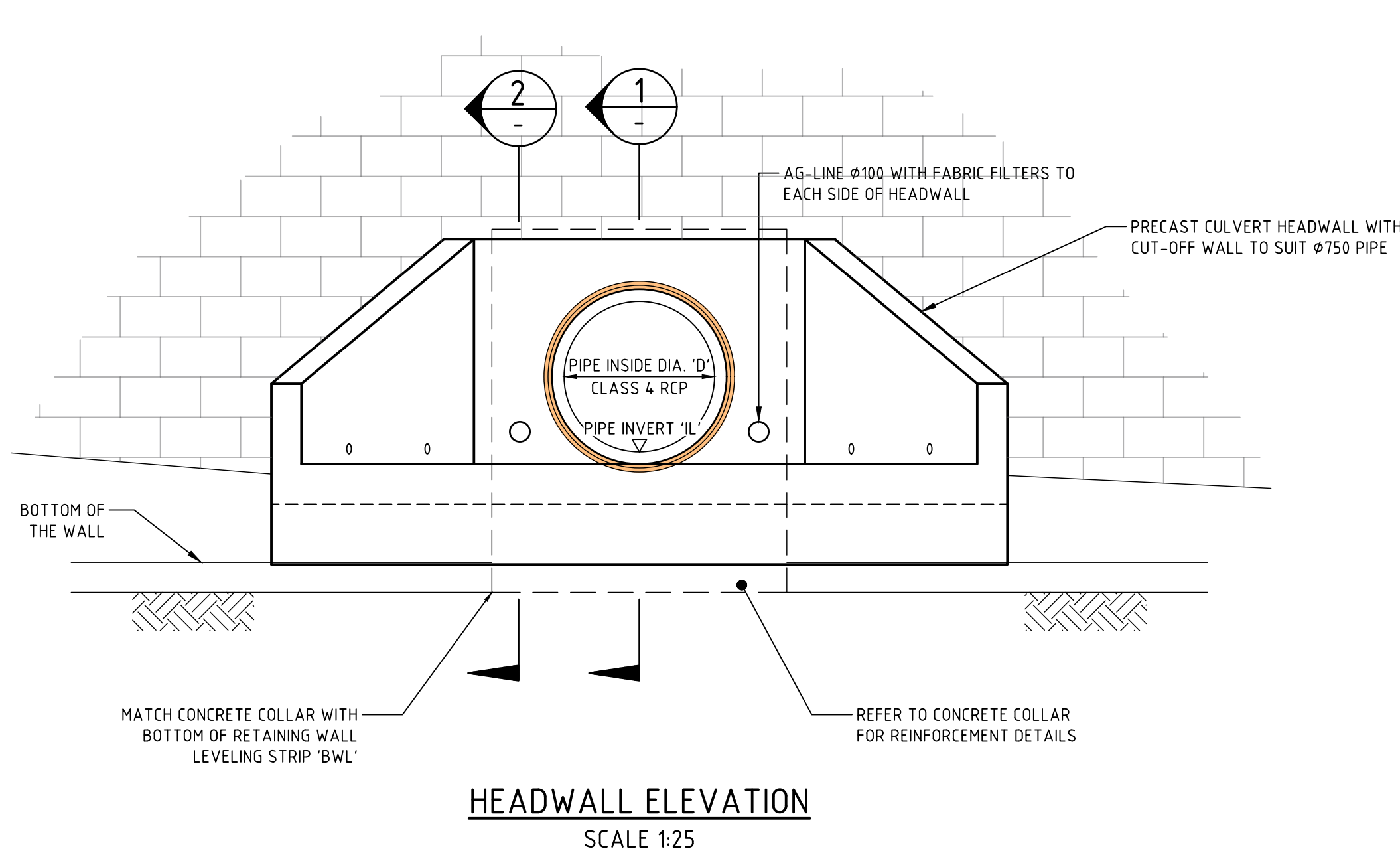
CONSTRUCTION CERTIFICATE

Approved Plans & Specifications relating to:

Date Approved: 03 September 2026

Certificate No.: CC-26113

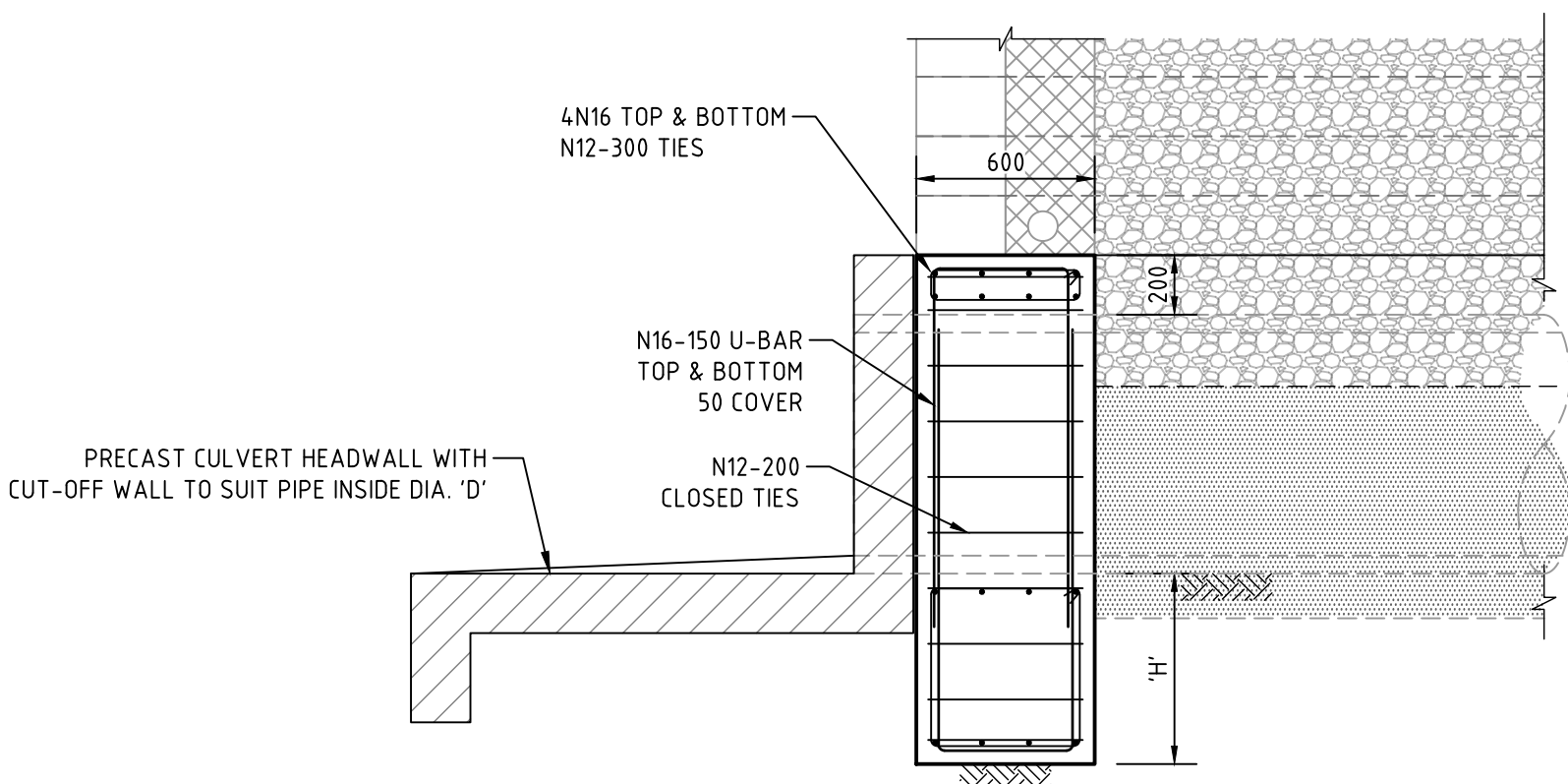
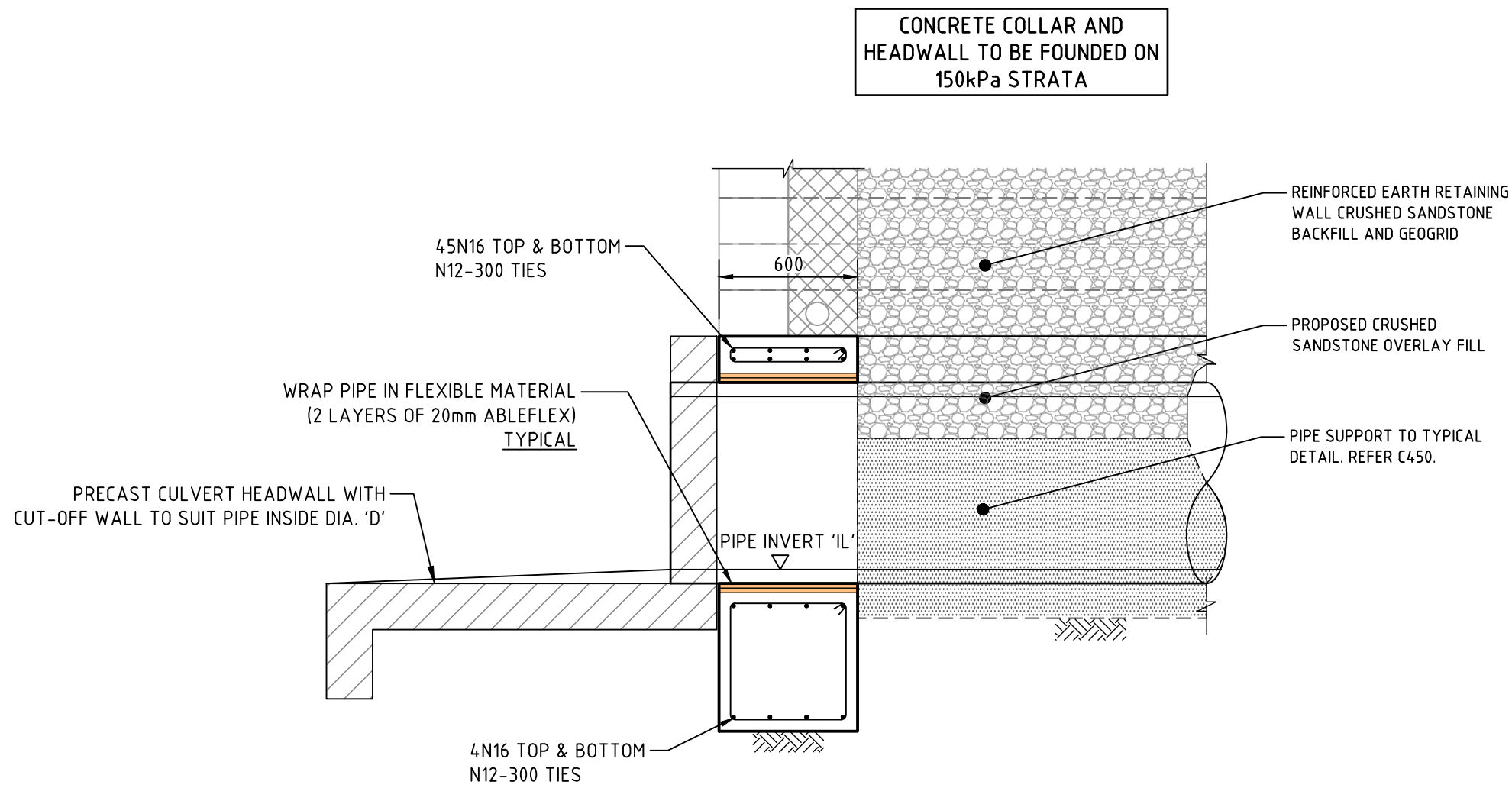
BM+G



PIPE DESCRIPTION	PIPE INSIDE DIA. 'D'	DEPTH OF COLLAR BELOW BOTTOM OF PIPE 'H'	PIPE INVERT 'IL'	BOTTOM OF WALL FOOTING RL 'BWL'
LOT 3 FROM PIT W3-E11 TO WATERCOURSE	750mm	640mm	RL 72.00	RL 71.36
LOT 2 FROM OSD TO WATERCOURSE	825mm	400mm	RL 72.26	RL 71.80
LOT 4 FROM PIT W4-A16 TO BLACKTOWN CREEK	900mm	854mm	RL 72.52	RL 71.60*

*NOTE: 'OD' WILL BE AS PER THE SUPPLIER'S TECHNICAL DOCUMENTATION.

*NOTE: BOTTOM OF WALL TO BE LOCATED BELOW THE BIORETENTION FILTER MEDIA



SECTION 1:25

SECTION 2:25

PIPE DESCRIPTION	PIPE INSIDE DIA. 'D'	DEPTH OF COLLAR BELOW BOTTOM OF PIPE 'H'	PIPE INVERT 'IL'	BOTTOM OF WALL FOOTING RL 'BWL'
LOT 3 FROM PIT W3-E11 TO WATERCOURSE	750mm	640mm	RL 72.00	RL 71.36
LOT 2 FROM OSD TO WATERCOURSE	825mm	400mm	RL 72.26	RL 71.80
LOT 4 FROM PIT W4-A16 TO BLACKTOWN CREEK	900mm	854mm	RL 72.52	RL 71.60*

*NOTE: 'OD' WILL BE AS PER THE SUPPLIER'S TECHNICAL DOCUMENTATION.

*NOTE: BOTTOM OF WALL TO BE LOCATED BELOW THE BIORETENTION FILTER MEDIA

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Compliance Certificate

Certificate Number: 250062CC05

Issuing Officer: Sammy Gazal

Registration Number: BDC05310

These plans/specifications form part of the certificate issued: 01/09/2026



CONCRETE NOTES:

- C1 ALL WORKMANSHIP AND MATERIAL SHALL BE IN ACCORDANCE WITH AS3600 CURRENT EDITION WITH AMENDMENTS, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
- C2 READYMIX CONCRETE SUPPLY SHALL COMPLY WITH AS1379.
- C3 CONCRETE QUALITY
ALL THE REQUIREMENTS OF THE ACSE SPECIFICATION DOCUMENT 1 (EDITION 6) SHALL APPLY TO THE FORMWORK, REINFORCEMENT AND CONCRETE UNLESS NOTED OTHERWISE.

ELEMENT	STRENGTH GRADE (MPa)	SLUMP	MAX AGG SIZE	CEMENT TYPE
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REFER TO PLANS

- C4 PROJECT CONTROL TESTING SHALL BE CARRIED OUT IN ACCORDANCE AS1379.
- C5 NO ADMIXTURES SHALL BE USED IN CONCRETE UNLESS APPROVED IN WRITING.
- C6 CLEAR CONCRETE COVER TO ALL REINFORCEMENT FOR DURABILITY SHALL BE AS FOLLOWS UNLESS SHOWN OTHERWISE.

EXPOSURE CLASSIFICATION TO AS3600:	CONCRETE GRADE:	CAST AGAINST GROUND:	CAST IN FORMS EXPOSED:	CAST IN FORMS NOT EXPOSED:
A1&A2	25	50mm	30mm	20mm(A1)
B1	32	60mm	40mm	-
B2	40	65mm	45mm	-

COVER REQUIREMENTS MAY NEED TO BE INCREASED TO SUIT FIRE RATING. EXPOSURE CLASSIFICATION SHALL BE AS INDICATED ON THE DRAWING.

DURABILITY REQUIREMENTS FOR CONCRETE.

EXPOSURE CLASSIFICATION TO AS3600:	MINIMUM CEMENT CONTENT:	MAXIMUM W/C RATIO:
A1&A2	280	0.56
B1	320	0.56
B2	390	0.6
C	450	0.40

CONCRETE NOTES (CONTINUED):

- C7 ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON MILD STEEL PLASTIC TIPPED CHAIRS, PLASTIC CHAIRS OR CONCRETE CHAIRS AT 1 METRE CENTRES MAXIMUM BOTH WAYS. BARS SHALL BE TIED AT ALTERNATE INTERSECTIONS. USE PLASTIC CHAIRS IN EXPOSURE CONDITION GREATER THAN B1.
- C8 CONCRETE SIZES DO NOT INCLUDE THICKNESSES OF APPLIED FINISHES.
- C9 DEPTHS OF BEAMS ARE GIVEN FIRST AND INCLUDE SLAB THICKNESS.
- C10 REFER TO ARCHITECT'S DETAILS, FOR CHAMFERS, DRIP GROOVES, REGLETS, ETC., MAINTAIN COVER TO REINFORCEMENT AT THESE DETAILS.
- C11 NO HOLES, CHASES OR EMBEDMENT OF PIPES OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE MADE IN CONCRETE MEMBERS WITHOUT THE PRIOR WRITTEN APPROVAL OF THE ENGINEER.

- C12 CONSTRUCTION JOINTS WHERE NOT SHOWN SHALL BE LOCATED TO THE APPROVAL OF THE ENGINEER.
- C13 ALL CONCRETE INCLUDING SLABS ON GROUND AND FOOTINGS SHALL BE COMPACTED WITH MECHANICAL VIBRATORS.
- C14 USE ALIPHATIC ALCOHOLS SPRAYED OVER THE SURFACE PRIOR TO AND AFTER FINISHING TO REDUCE RATE OF EVAPORATION FROM THE SURFACE AND HELP CONTROL PLASTIC SHRINKAGE CRACKING. NOTE THAT THE USE OF ALIPHATIC ALCOHOLS IS NOT A SUBSTITUTE FOR CURING.

- C15 COMMENCE CURING OPERATIONS PROMPTLY AFTER SURFACE FINISHING IS COMPLETE. CURING COMPOUNDS ARE TO BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS AND ARE TO BE CHECKED FOR COMPATIBILITY WITH PROPOSED FLOOR FINISHES. SOME COMPOUNDS MAY REQUIRE REMOVAL FOR GLED DOWN FLOOR COVERINGS OR WET CURING AS DESCRIBED BELOW.

CONCRETE IS TO BE CURED BY KEEPING THE SURFACES CONTINUOUSLY WET FOR A PERIOD OF 3 DAYS, AND PREVENTING THE LOSS OF MOISTURE FOR A FURTHER 7 DAYS FOLLOWED BY A GRADUAL DRYING OUT.

- C16 PROPPING WHICH SUPPORTS CONSTRUCTION OVER IS TO BE LEFT IN PLACE AS REQUIRED TO AVOID OVER STRESSING THE STRUCTURE DUE TO CONSTRUCTION LOADING.

- C17 THE ENGINEER SHALL BE GIVEN 48 HOURS NOTICE FOR REINFORCEMENT INSPECTIONS AND CONCRETE SHALL NOT BE DELIVERED UNTIL ENGINEERS APPROVAL IS OBTAINED.

CONCRETE NOTES (CONTINUED):

- C18 CONDUITS, PIPES ETC. SHALL ONLY BE LOCATED IN THE MIDDLE ONE THIRD OF SLAB DEPTH AND SPACED AT NOT LESS THAN 3 DIAMETERS OF THE CONDUIT, PIPES ETC. PIPES OR CONDUITS SHALL NOT BE PLACED WITHIN THE COVER TO REINFORCEMENT.
- C19 REINFORCEMENT SYMBOLS:
N DENOTES DEFORMED GRADE 500 NORMAL DUCTILITY CLASS BARS TO AS4671
R DENOTES PLAIN ROUND GRADE 250 NORMAL DUCTILITY CLASS BARS TO AS4671
RL DENOTES RECTANGULAR MESH GRADE 500 LOW DUCTILITY CLASS TO AS4671
TM DENOTES TRENCH MESH GRADE 500 LOW DUCTILITY CLASS TO AS4671
SL DENOTES SQUARE MESH GRADE 500 LOW DUCTILITY CLASS TO AS4671
The member immediately following the bar grade symbol represents the nominal bar diameter in millimeters. The figures following the mesh symbol SL & RL is the reference number for mesh to AS4671.
- C20 REINFORCEMENT IS REPRESENTED DIAGMATICALLY AND NOT NECESSARILY IN TRUE PROJECTION.
- C21 SLAB REINFORCEMENT SHALL EXTEND AT LEAST 65mm ONTO MASONRY SUPPORT WALLS AND 50 PERCENT OF THE BOTTOM REINFORCEMENT SHALL BE COGGED TO ACHIEVE ANCHORAGE AT SIMPLY SUPPORTED ENDS.
- C22 SPLICES IN REINFORCEMENT SHALL BE MADE ONLY IN POSITIONS SHOWN OR OTHERWISE APPROVED IN WRITING BY THE ENGINEER. LAPS SHALL BE IN ACCORDANCE WITH AS3600 AND NOT LESS THAN THE DEVELOPMENT LENGTH FOR EACH BAR.

- C23 WHERE TRANSVERSE TIE BARS ARE NOT SHOWN PROVIDE N12-400 SPLICED WHERE NECESSARY AND LAPPED 500mm WITH MAIN BARS.

- C24 UPWARD CAMBER TO FORMWORK OF REINFORCED CONCRETE CANTILEVERS SHALL BE L/120, WHERE L IS THE PROJECTION BEYOND FACE OF COLUMN OR WALL. CAMBER TO SUSPENDED SLABS AND BEAMS SHALL BE 5 FOR EVERY 2500 OF SPAN. MAINTAIN THE SLAB AND BEAM DEPTHS SHOWN.

- C25 SLABS AND BEAMS SHALL BE CONSTRUCTED TO BEAR ONLY ON THE BEAMS, WALLS, COLUMNS, ETC SHOWN ON THE DRAWINGS. TOPS OF LOAD BEARING MASONRY WALLS ARE TO BE TROWELLED SMOOTH AND 2 LAYERS OF ALOR PROVIDED BETWEEN WALL AND SLAB. ALL OTHER BUILDING ELEMENTS SHALL BE KEPT 15mm MINIMUM CLEAR FROM SOFFITS OF THE STRUCTURE.

CONCRETE NOTES (CONTINUED):

- C26 FORMWORK STRIPPING TIMES:
RECOMMENDED MINIMUM STRIPPING TIMES IN THE ABSENCE OF CALCULATION AND STRENGTH TESTING SHALL BE:

MEMBER TYPE	MEMBER	EFFECTIVE SPAN (m)	MINIMUM STRIPPING TIME (DAYS) FOR AVERAGE AIR TEMPERATURE DURING PERIOD PRIOR TO STRIPPING			
			20° AND OVER	10° TO 20°	5° TO 10°	UNDER 5°
VERTICAL UNLOADED	WALL, COLUMN, BEAM SIDE	0	2	3	5	7
VERTICAL LOADING	WALL, COLUMN OR LOADING STRUCTURE	0	5	6	7	9
HORIZONTAL	SLAB	UNDER 3	7	10	14	21
		3 - 6	10	14	21	28
HORIZONTAL	BEAM	UNDER 3	10	14	21	28
		3 - 6	14	21	28	28
HORIZONTAL	SLAB	UNDER 3	7	10	14	21
		3 - 6	10	14	21	28

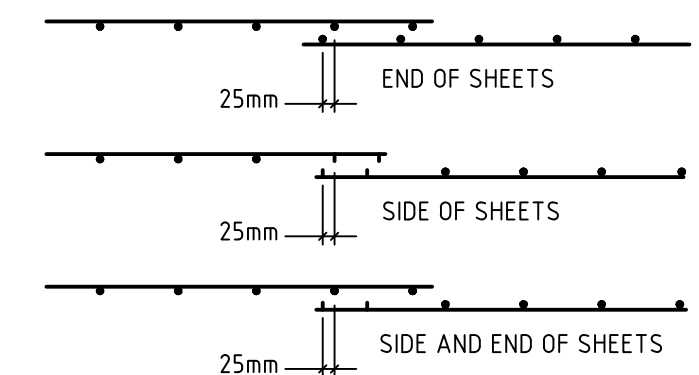
* EFFECTIVE SPAN IS THE MAXIMUM DISTANCE BETWEEN SUPPORTS (EITHER TEMPORARY OR PERMANENT).

- C27 STANDARD LAP AND COG LENGTHS UNLESS NOTED OTHERWISE ON DRAWINGS.

BAR DIAMETER	MIN LAP LENGTH (mm)	MIN COG LENGTH (mm)
N12	500	180
N16	750	210
N20	1000	260
N24	1375	310
N28	1560	360
N32	1810	400

CONCRETE NOTES (CONTINUED):

- C28 MINIMUM MESH LAPS



FOUNDATIONS

- F1 FOOTINGS HAVE BEEN DESIGNED FOR AN ALLOWABLE BEARING CAPACITY OF 150kPa ON ENGINEERED FILL. THE FOUNDATION MATERIAL SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER FOR THIS BEARING CAPACITY BEFORE PLACING MEMBRANE, REINFORCEMENT OR CONCRETE.
- F2 REFER TO GEOTECHNICAL INVESTIGATIONS REPORT No. PSM636-006L REV6 PREPARED BY: BRYAN TAM - PSM 17 APRIL 2024.
- F3 FOOTINGS SHALL BE LOCATED CENTRALLY UNDER WALL AND COLUMNS UNLESS NOTED OTHERWISE.
- F4 DO NOT EXCEED A RISE OF: 1IN A RUN OF: 2 FOR THE LINE OF SLOPE BETWEEN ADJACENT FOOTINGS OR EXCAVATIONS.
- F5 DO NOT BACKFILL RETAINING WALLS (OTHER THAN CANTILEVER WALLS) UNTIL FLOOR CONSTRUCTION AT TOP AND BOTTOM IS COMPLETED. ENSURE FREE DRAINING BACKFILL AND DRAINAGE IS IN PLACE.
- F6 FOOTINGS TO BE CONSTRUCTED AND BACKFILLED AS SOON AS POSSIBLE FOLLOWING EXCAVATION TO AVOID SOFTENING OR DRYING OUT BY EXPOSURE.

SITE PREPARATION

- SP1 STRIP EXISTING AREA OF TOPSOIL AND OTHER DELETERIOUS MATERIAL AS REQUIRED TO CONSTRUCT NEW WORKS.
- SP2 PRIOR TO PLACING THE FLOORS OR PAVEMENT THE CONTRACTOR SHALL CONFIRM THAT THE SUBGRADE HAS BEEN PROPERLY PREPARED, IS SOUND, AT THE CORRECT MOISTURE CONTENT & HAS BEEN VERIFIED BY THE EARTHWORKS OR CIVIL CONTRACTOR WITH RESPECT TO SPECIFICATION COMPLIANCE.
- SP3 REFER TO CIVIL ENGINEERS DRAWINGS FOR DETAILS OF SITE PREPARATION.
- SP4 IF THE EARTHWORKS CAPPING LAYER CONSISTS OF A MINIMUM THICKNESS OF DGS40 MATERIAL & THE CONSTRUCTED LEVELS ARE SUITABLE IT MAY BE POSSIBLE TO UTILISE THIS CAPPING MATERIAL AS PAVEMENT SUB-BASE.
- SP5 REMOVE ANY ORGANIC OR SOFT MATERIAL FROM SITE.
- SP6 REFER TO GEOTECHNICAL REPORT PSM636-006L REV6 PREPARED BY BRYAN TAM DATED 17 APRIL 2024 FOR INFORMATION PERTAINING TO EXISTING GROUND CONDITIONS & SPECIFIC FILL PLACEMENT & COMPACTION REQUIREMENTS.
- SP7 PROOF ROLL THE EXPOSED SUBGRADE A MINIMUM OF 8 PASSES WITH A 10 TONNE STATIC WEIGHT SMOOTH DRUM NON-VIBRATORY ROLLER. AREAS IN THE VICINITY OF UNDERGROUND SERVICES SHALL BE COMPACTED WITH HAND OPERATED PLATE COMPACTOR.
- SP8 WHERE SOFT, YIELDING OR UNSTABLE MATERIAL IS IDENTIFIED, DEEPEN EXCAVATION AS REQUIRED TO REMOVE ANY SOFT SPOTS AND EXPOSE SUITABLE FOUNDATION STRATA. THIS MATERIAL MUST BE APPROVED BY THE GEOTECHNICAL ENGINEER.

- SP9 SITE REGRADED OR ENGINEERED FILL SHALL BE CLEAN MATERIAL COMPACTED TO 100% SMOO WITHIN +2% OF OPTIMUM MOISTURE CONTENT IN LAYERS OF 250mm LOOSE THICKNESS.
- SP10 MAXIMUM PARTICLE SIZE OF FILL TO BE HALF THE LOOSE LAYER THICKNESS OR TWO-THIRDS THE COMPACTED LAYER THICKNESS.
- SP11 SERVICE TRENCH BACK FILL AND FILL OVER UNDERGROUND SERVICES SHALL BE COMPACTED WITH HAND OPERATED PLATE COMPACTOR IN LAYERS OF 100mm LOOSE THICKNESS.
- SP12 FILLING TO EXTEND 1 METRE BEYOND THE EDGE OF THE SLAB.
- SP13 EARTHWORKS SHALL BE COMPLETED UNDER LEVEL 1 CONTROL IN ACCORDANCE WITH AS3798 GUIDELINES ON EARTHWORKS FOR COMMERCIAL & RESIDENTIAL DEVELOPMENTS.

REINFORCEMENT

- R1 ALL REINFORCEMENT BARS ARE TO BE D500N U.N.O.
- R2 ALL REINFORCEMENT WELDED MESHES TO BE GRADE 500L U.N.O.
- R3 WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED UNLESS SHOWN ON THE STRUCTURAL DRAWINGS OR APPROVED BY ENGINEER.
- R4 COVER TO ALL BASE REINFORCEMENT TO BE MINIMUM 50mm U.N.O.
- R5 MESH LAPS SHALL BE MADE SO THAT THE TWO OUTERMOST WIRES OF ONE FABRIC OVERLAP THE TWO OUTERMOST WIRES OF THE SHEET BEING LAPPED.
- R6 REFER TO DRG C100 NOTE 27 FOR TABLE OF REINFORCING BAR LAP & COG LENGTHS. TABLED DIMENSIONS TO APPLY UNLESS NOTED OTHERWISE ON PLANS OR DETAILS.

CONCRETE COLLAR AND HEADWALL TO BE FOUND ON 150kPa STRATA

CONCRETE QUALITY					
ELEMENT	SLUMP	AGGREGATE (MAX. SIZE)	CEMENT TYPE	ADMIXTURE	F'c (MPa)
CONCRETE COLLAR	80	20	GP	NIL	32

200mm 0 500 1000 1500 2000 2500mm
SCALE 1:25 AT B1 SIZE SHEET

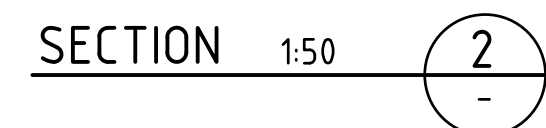
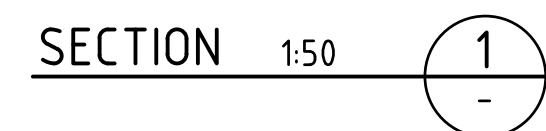
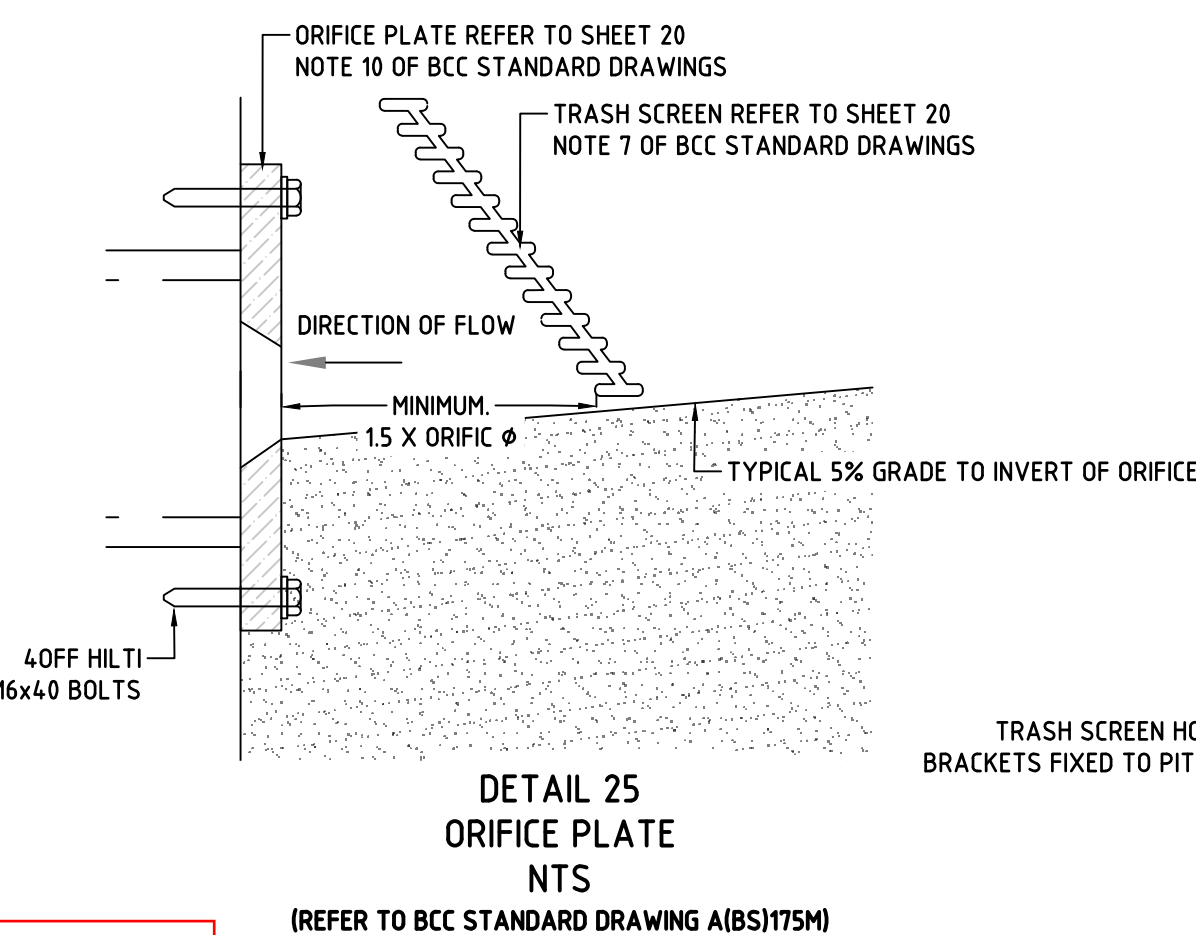
CONSTRUCTION CERTIFICATE

ISSUED FOR CC1E		29.06.26	B	ARCHITECT		CLIENT		BUILDER		PROJECT		Costin Roe Consulting Pty Ltd. ABN 50 003 096 446		DRAWING TITLE	
ISSUED FOR PRELIMINARY		25.06.26	A	ARCHITECT		CLIENT		BUILDER		PROJECT		PO Box N419 Sydney NSW 1220 Level 4, 8 Windmill Street, Millers Point NSW 2000 p: +61 2 9251 7699 e: mail@costinroe.com.au w: costinroe.com.au		STORMWATER DRAINAGE TYPICAL DETAILS - SHEET 4	
AMENDMENTS		DATE	ISSUE	AMENDMENTS		DATE		ISSUE		DRAWING No.		C013904.07-S2EW453		ISSUE	
														B	

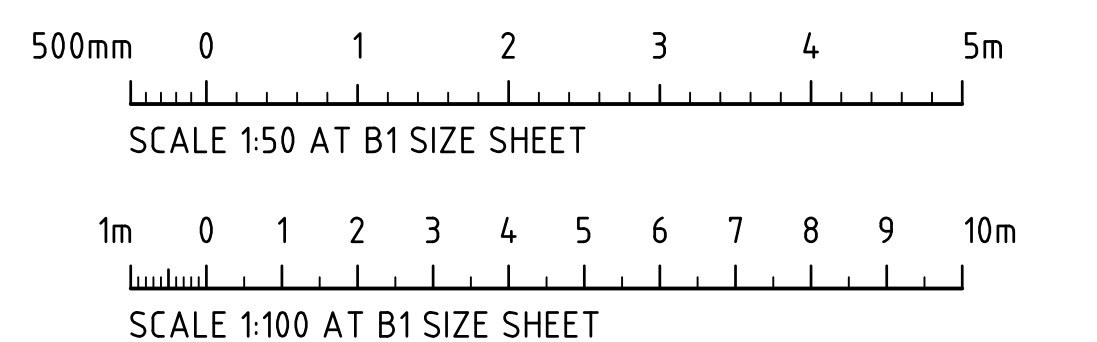
	TANK 1	TANK 2	TANK 3A	TANK 3B
TOTAL SITE AREA DRAINING TO STORAGE (85% IMPERVIOUS)	11,580m ²	20,650m ²	19,790m ²	22,390m ²
OSD INLET PIPE RL	RL 70.93	RL 73.27	RL 72.23	RL 75.42
OSD INLET PIPE Ø	600mm	750mm	675mm	750mm
UPSTREAM WATER QUALITY SYSTEMS	YES	YES	YES	YES
PROPOSED OSD BASE SLOPE	1%	1%	1%	2%
STORAGE				
Q100 ORIFICE Ø	235.5mm	285mm	248.5mm	273mm
Q100 ORIFICE ℓ	RL 71.20	RL 73.00	RL 71.50	RL 75.10
OUTLET PIPE Ø	750mm	825mm	825mm	750mm
VOLUME PROVIDED	536m ³	976m ³	951m ³	1021m ³
VOLUME REQUIRED	527m ³	970m ³ MIN.	900m ³ MIN.	1020m ³ MIN.
OSD AVERAGE DEPTH	2.66m	2.66m	3.06m	3.36m
OSD LENGTH	25.60m	34.00m	43.70m	41.30m
OSD WIDTH	12.40m	14.80m	11.20m	11.20m
INTERNAL TANK DIMENSIONS (INC. HIGH FLOW CHAMBERS)				
Q1.5 ORIFICE Ø	N/A*	N/A*	N/A*	N/A*
Q1.5 ORIFICE ℓ	N/A*	N/A*	N/A*	N/A*
RL OF Q1.5 CONTROL PIT WEIR	RL 72.355	RL 74.375	RL 73.055	RL 77.015
RL OF INVERT OF DISCHARGE	RL 70.93	RL 72.75	RL 71.30	RL 74.90
OUTLET PIPE Ø	750mm	825mm	825mm	750mm
RL OF EMERGENCY BYPASS WEIR	RL 72.89	RL 74.995	RL 73.71	RL 77.80
RL OF TOP OF OSD TANK	RL 73.10	RL 75.30	RL 74.00	RL 78.115
RL OF GROUND ABOVE	RL 73.60	RL 76.47	RL 75.90	RL 79.15
Q100 WATER LEVEL	RL 72.89	RL 75.00	RL 73.71	RL 77.80
Q1.5 WATER LEVEL	RL 72.355	RL 74.38	RL 73.055	RL 77.015
WATER QUALITY				
WQD DEPTH	1.02m	1.02m	1.02m	1.02m
WQD AREA	28.0m ²	81.0m ²	35.0m ²	60.0m ²
NUMBER OF STORMSACK FILTERS	18	35	50	55
NOTE: *IN THE EVENT THAT THE NOMINAL DISCHARGE FROM THE FILTER STORAGE EXCEEDS THE 15-YEAR ARI FLOW THEN OMIT THE 15-YEAR ARI ORIFICE CONTROL AND GRADE FLOOR OF OSD TANK TO NON-RETURN FLAP.				

TOTAL SITE AREA DRAINING TO STORAGE (85% IMPERVIOUS)		46,480m ²
OSD INLET PIPE RL		RL 72.50
OSD INLET PIPE Ø		750mm
STORAGE		
Q100 ORIFICE Ø		5115mm
Q100 ORIFICE ¼		RL 70.20
RL OF EMERGENCY BYPASS WEIR		RL 72.73
VOLUME PROVIDED		2,530m ³
VOLUME REQUIRED		2,115m ³ MIN.
Q15 ORIFICE Ø		263mm
Q15 ORIFICE ¼		RL 70.50
RL OF Q15 CONTROL PIT WEIR		RL 72.09
RL OF INVERT OF DISCHARGE		RL 67.02
OUTLET PIPE Ø		675mm
AVERAGE BOTTOM OF BASIN RL		RL 70.85
Q100 WATER LEVEL		RL 72.73
Q15 WATER LEVEL		RL 72.09

Approved Plans & Specifications relating to:
Date Approved: **03 September 2026**
Certificate No.: **CC-26113**



Compliance Certificate	
Certificate Number:	250062CC05
Issuing Officer:	Sammy Gazal
Registration Number:	BDC05310
These plans/specifications form part of the certificate issued: 01/09/2026	



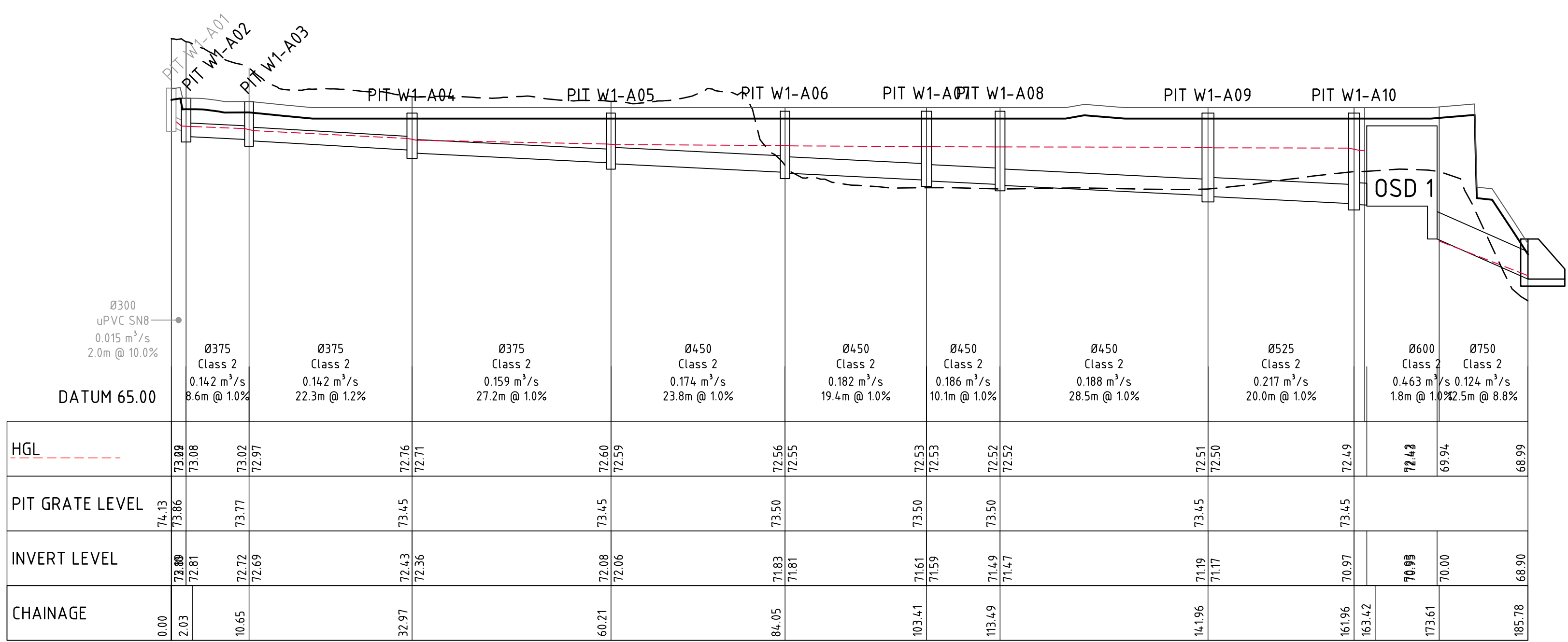
N.T.S
SUGGESTED SIZE 600mm x 450mm
TO BE PROVIDED ADJACENT TO OSD
TANKS IN SUITABLE AREA T.B.C ON SITE

N.T.S
SUGGESTED SIZE 300mm x 450mm
TO BE PROVIDED ADJACENT TO OSD
TANKS IN SUITABLE AREA T.B.C ON SITE

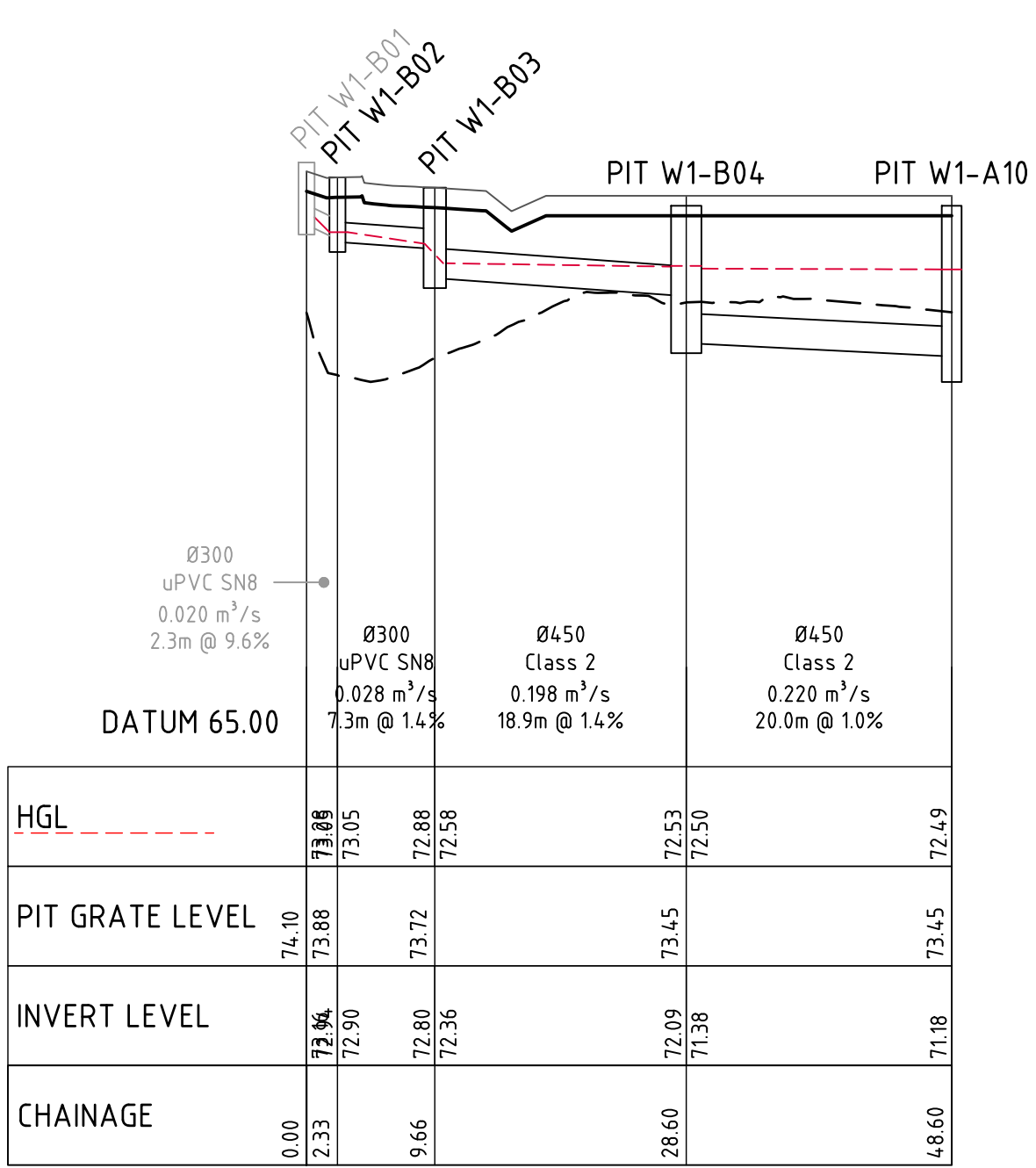
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SUGGESTED SIZE 110mm x 80mm
TO BE PROVIDED ADJACENT TO OSD
TANKS IN SUITABLE AREA T.B.C ON SITE

CONSTRUCTION CERTIFICATE

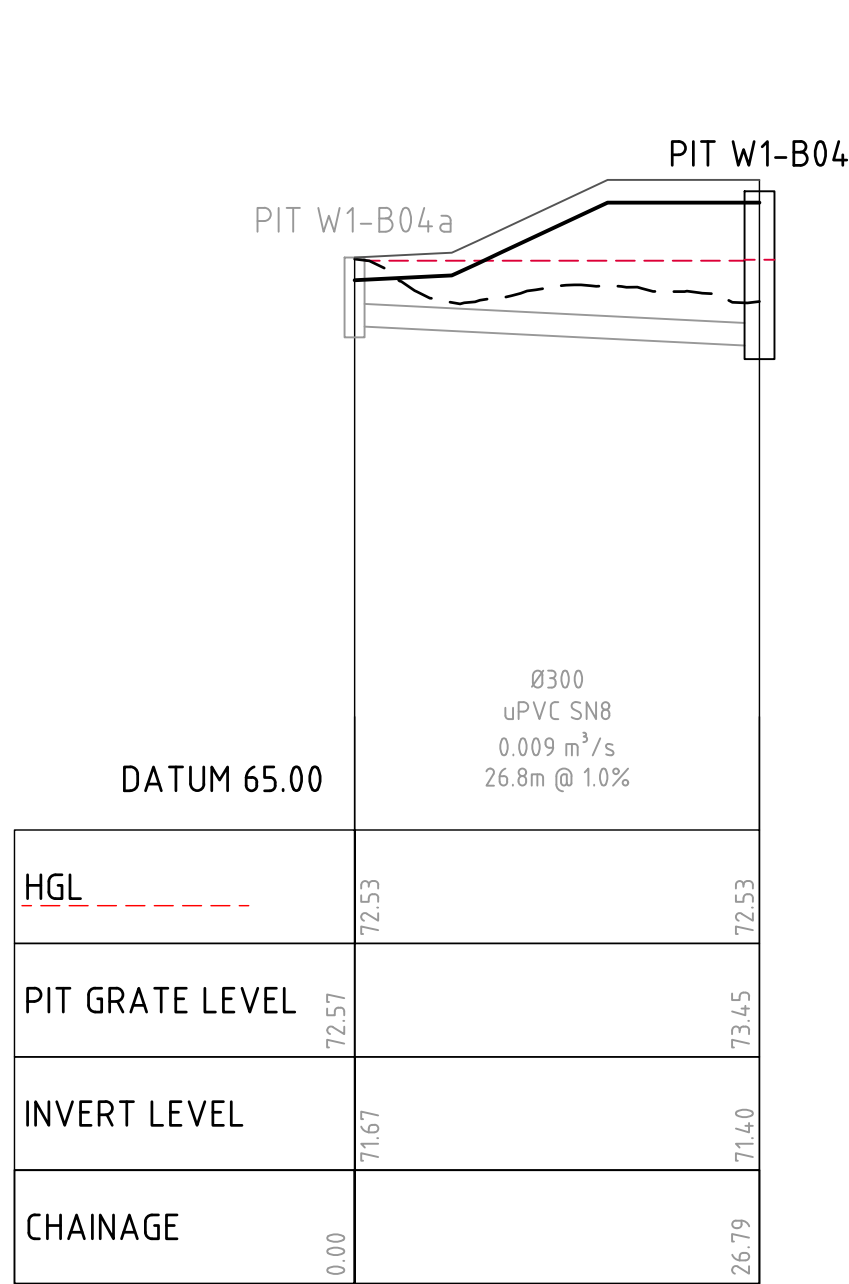
REVISED AS CLOUED25.08.26D REVISED AS CLOUED19.08.26C ISSUED FOR CONSTRUCTION CERTIFICATE - REVISED AS CLOUED04.08.26B ISSUED FOR PRELIMINARY25.06.26A			ARCHITECT sba 02 9629 9988 info@sba.au www.sba.au CLIENT ESR BUILDER AWJ			PROJECT PROPOSED WAREHOUSE DISTRIBUTION AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148			CONSULT AUSTRALIA Costin Roe Consulting Pty Ltd. ABN 50 003 696 446 PO Box N419 Sydney NSW 1220 Level 4, 8 Windmill Street, Millers Point NSW 2000 p: +61 2 9251 7699f: +61 2 9241 3731 e: mail@costinroe.com.auw: costinroe.com.au			CRC COSTIN ROE CONSULTING CIVIL & STRUCTURAL ENGINEERS			DRAWING TITLE OSD TANK PLAN & DETAILS		
AMENDMENTS DATEISSUE AMENDMENTS DATEISSUE						DESIGNED LDV DRAWN KP DATE MAY 2026 CHECKED MW SIZE B1 SCALE AS SHOWN CAD REF: C013904.07-S2EW458						DRAWING No C013904.07-S2EW458 ISSUE D					



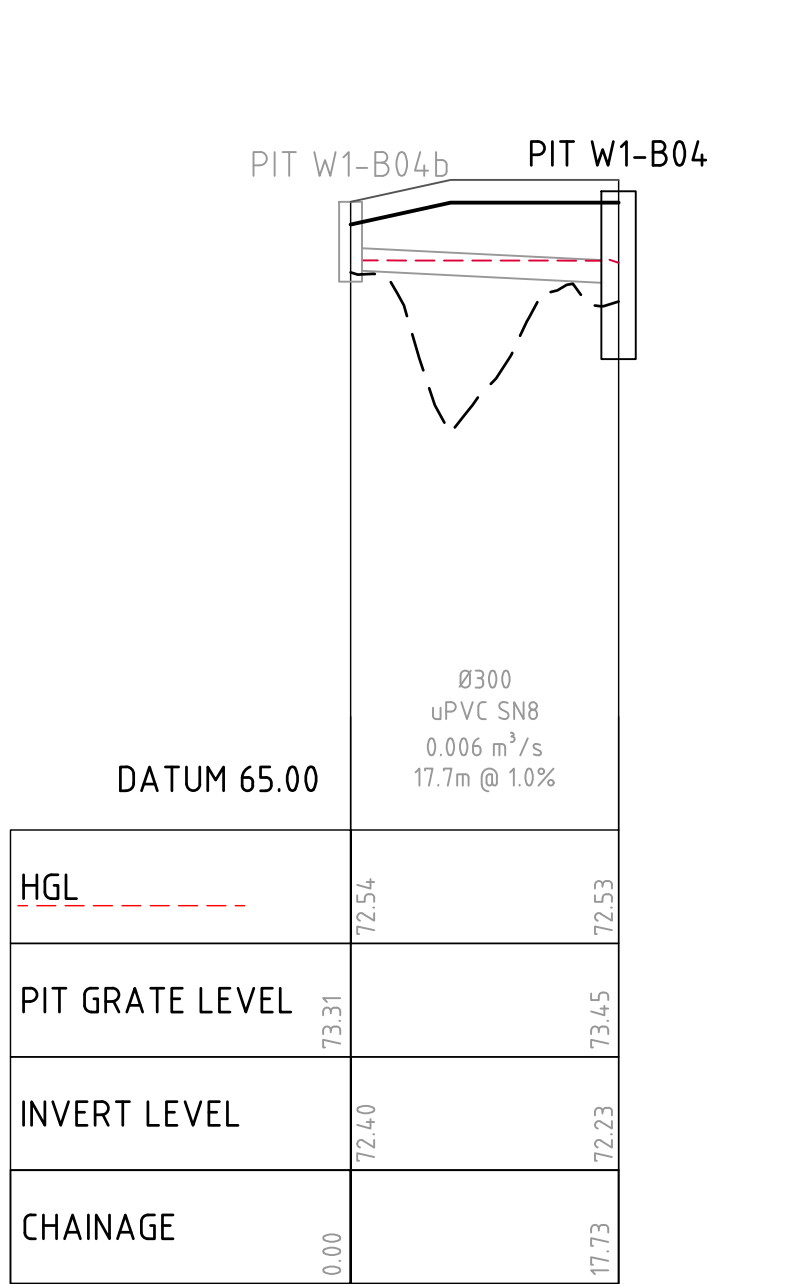
PIT W1-A01 TO DISCHARGE
HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100



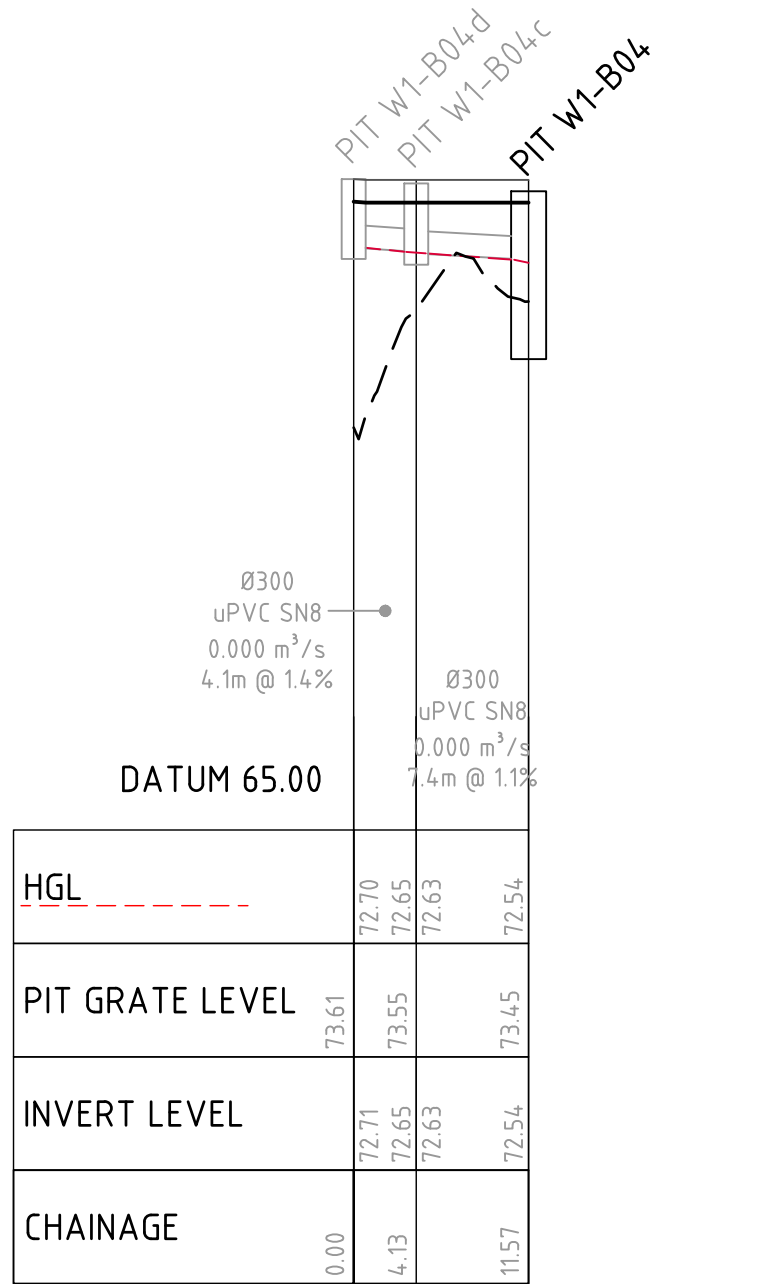
PIT W1-B01
HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100



PIT W1-B04a TO PIT W1-B04
HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100



PIT W1-B04b TO PIT W1-B04
HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100



PIT W1-B04d TO PIT W1-B04
HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100

WAREHOUSE 1 - PIT SCHEDULE									
PIT No.	GRATE RL	INVERT LEVEL	DEPTH	TYPE	GRATE SIZE	CHAMBER SIZE	EASTING	NORTHING	COMMENT
PIT W1-A01	74.13	73.10	1036	SGGP	900x900	900x900	30594.9.800	6257913.708	◇
PIT W1-A02	73.86	72.81	1048	SGGP	900x900	900x900	305951.826	6257913.599	◇
PIT W1-A03	73.77	72.69	1077	SJP	900x900	900x900	305953.027	6257922.137	
PIT W1-A04	73.45	72.36	1094	SGGP	900x900	900x900	305975.323	6257923.166	◇
PIT W1-A05	73.45	72.06	1386	SGGP	900x900	900x900	306002.298	6257919.372	◇
PIT W1-A06	73.50	71.81	1695	SGGP	900x900	900x900	306025.550	6257914.124	◇
PIT W1-A07	73.50	71.59	1908	SGGP	900x900	900x900	306043.931	6257908.034	◇
PIT W1-A08	73.50	71.47	2029	SGGP	900x900	900x900	306053.699	6257905.539	◇
PIT W1-A09	73.45	71.17	2284	SGGP	900x900	900x900	306076.556	6257888.562	◇
PIT W1-A10	73.45	70.95	2504	SGGP	900x900	1200x1200	306073.771	6257868.757	◇
PIT W1-B01	74.10	73.16	936	SGGP	900x900	900x900	306045.727	6257839.391	◇
PIT W1-B02	73.88	72.90	973	SJP	900x900	900x900	306046.057	6257841.694	◇
PIT W1-B03	73.72	72.36	1364	SJP	900x900	900x900	306052.377	6257845.415	
PIT W1-B04	73.45	71.38	2071	SGGP	900x900	1500x1500	306070.986	6257848.952	◇
PIT W1-B04a	72.57	71.67	906	SGGP	900x900	900x900	306044.220	6257849.981	◇
PIT W1-B04b	73.31	72.40	906	SGGP	900x900	900x900	306074.161	6257831.510	◇
PIT W1-B04c	73.55	72.63	926	SJP	900x900	900x900	306077.536	6257845.426	
PIT W1-B04d	73.61	72.71	906	SGGP	900x900	900x900	306081.504	6257846.587	

This Design Compliance Certificate applies only to the stormwater drainage lines shown in blue on the stamped plans and OSD Tanks 1, 2, 3A and 3B. All swales, Basin 4, Blacktown Creek works, and any other stormwater infrastructure are excluded from this certificate.

Structural plans and certification for all OSD tanks listed above must be provided prior to installation.

CONSTRUCTION CERTIFICATE

Approved Plans & Specifications relating to:

Date Approved: 03 September 2026

Certificate No.: CC-26113

BM+G

PIT SETOUT LEGEND

SETOUT POINT (TYPICAL U.N.G.)

SETOUT POINT (TYPICAL U.N.G.)

SGGP - SINGLE GRATED GULLY PIT

SJP - SEALED JUNCTION PIT

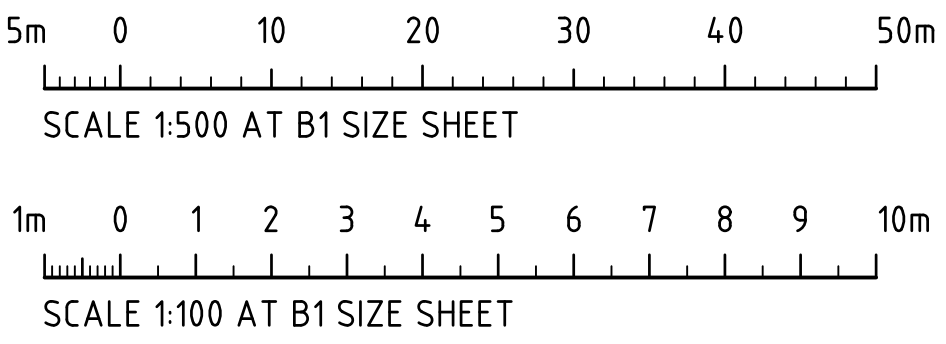
NOTES:

1. PITS TO BE FITTED WITH ATLAN STORMSACK PIT INSERT
THUS TOTAL NUMBER OF PIT INSERT =14
REFER TO PIT SCHEDULE

2. ALL INTERNAL CHAMBER SIZES TO BE DETERMINED BY
CIVIL CONTRACTOR BASED ON PIPE SIZE PLUS 150mm
CLEARANCE ON EITHER SIDE OF THE PIPE THE
CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON SITE
PRIOR TO CONSTRUCTION REFER ALL CONCERNS TO THE
ENGINEER

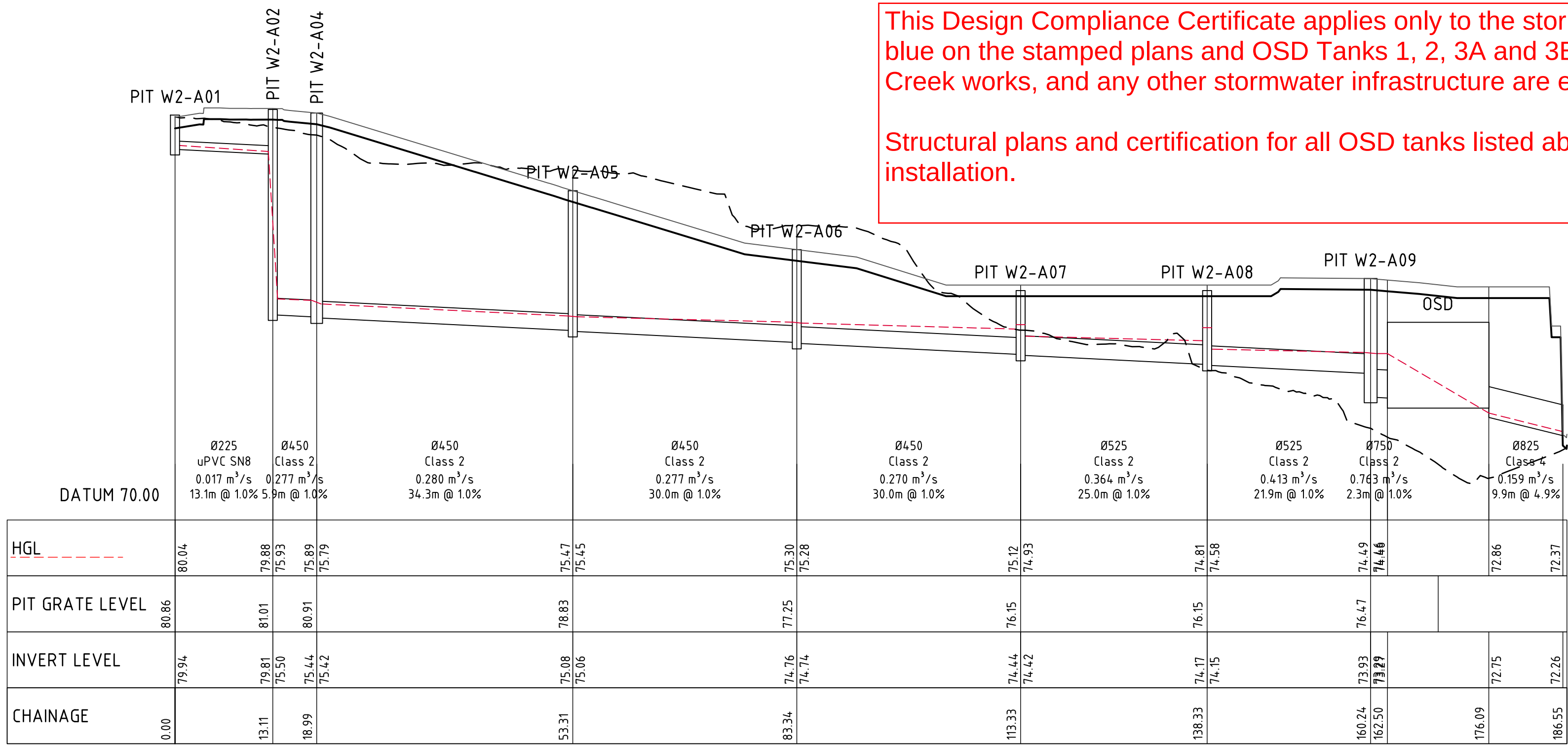
NOTE:

H.G.L & FLOWRATE SHOWN FOR Q20 A.R.I STORM EVENT



This Design Compliance Certificate applies only to the stormwater drainage lines shown in blue on the stamped plans and OSD Tanks 1, 2, 3A and 3B. All swales, Basin 4, Blacktown Creek works, and any other stormwater infrastructure are excluded from this certificate.

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PIT W2-A01 TO DISCHARGE

HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100

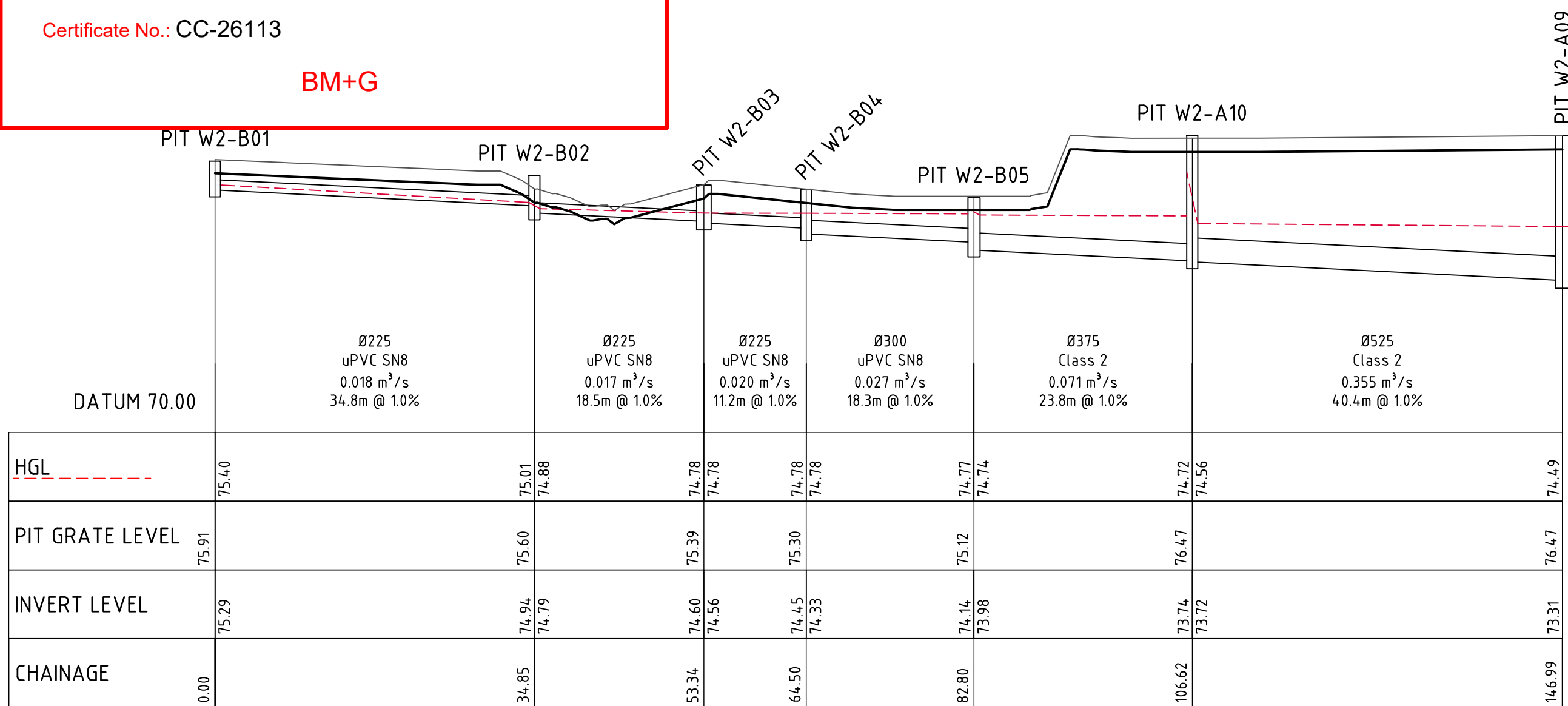
CONSTRUCTION CERTIFICATE

Approved Plans & Specifications relating to:

Date Approved: **03 September 2026**

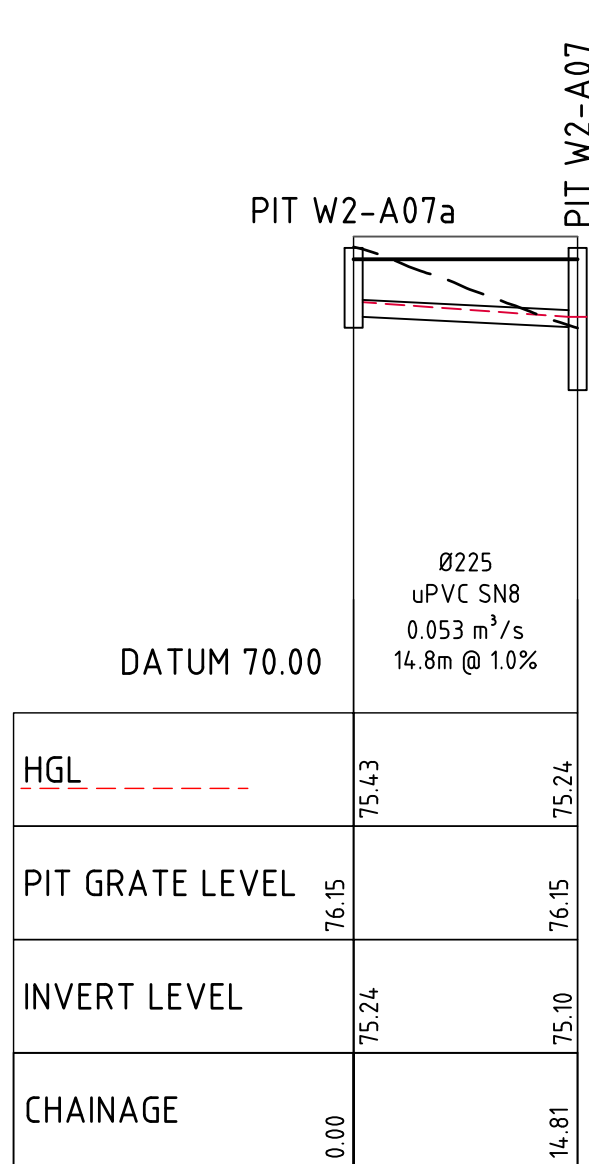
Certificate No.: **CC-26113**

BM+G



PIT W2-B01 TO PIT W2-A09

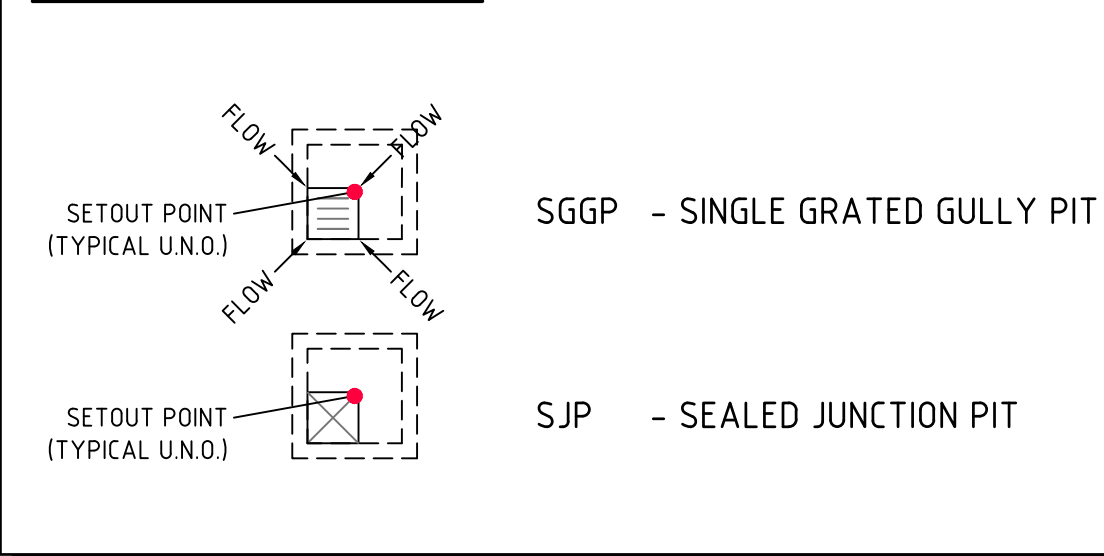
HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100



PIT W2-A07a TO PIT W2-A07

HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100

PIT SETOUT LEGEND

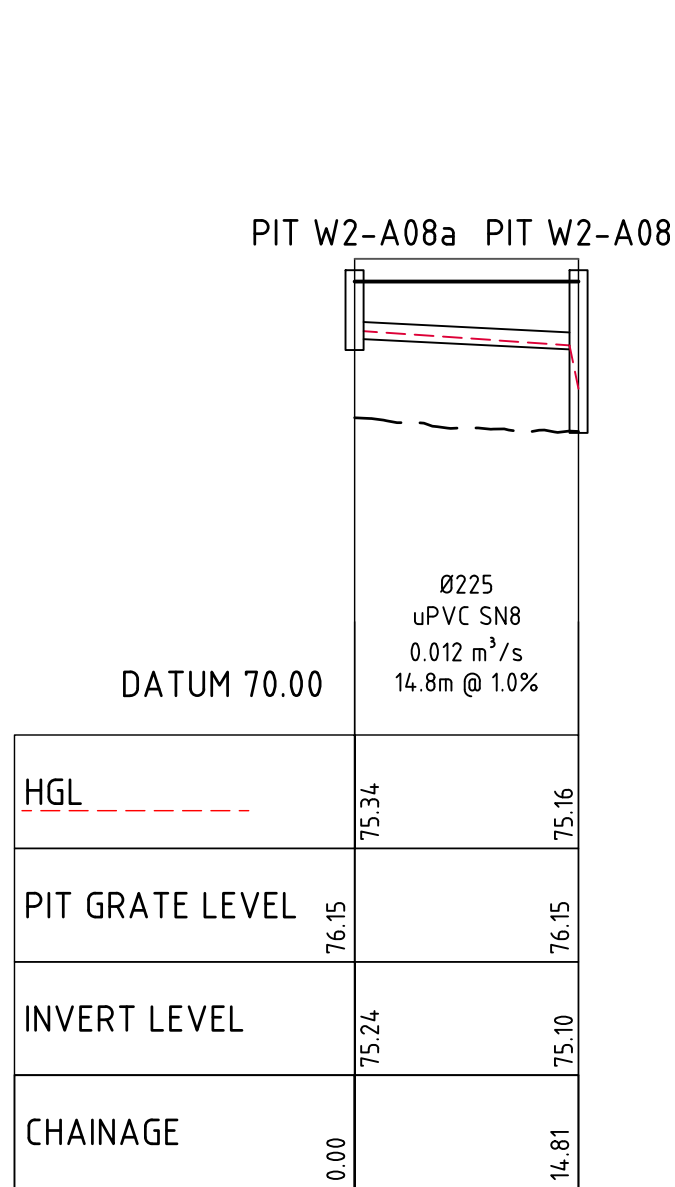


NOTES:

- PITS TO BE FITTED WITH ATLAN STORMSACK PIT INSERT THUS TOTAL NUMBER OF PIT INSERT =12 REFER TO PIT SCHEDULE
- ALL INTERNAL CHAMBER SIZES TO BE DETERMINED BY CIVIL CONTRACTOR BASED ON PIPE SIZE PLUS 150mm CLEARANCE ON EITHER SIDE OF THE PIPE THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON SITE PRIOR TO CONSTRUCTION REFER ALL CONCERNS TO THE ENGINEER

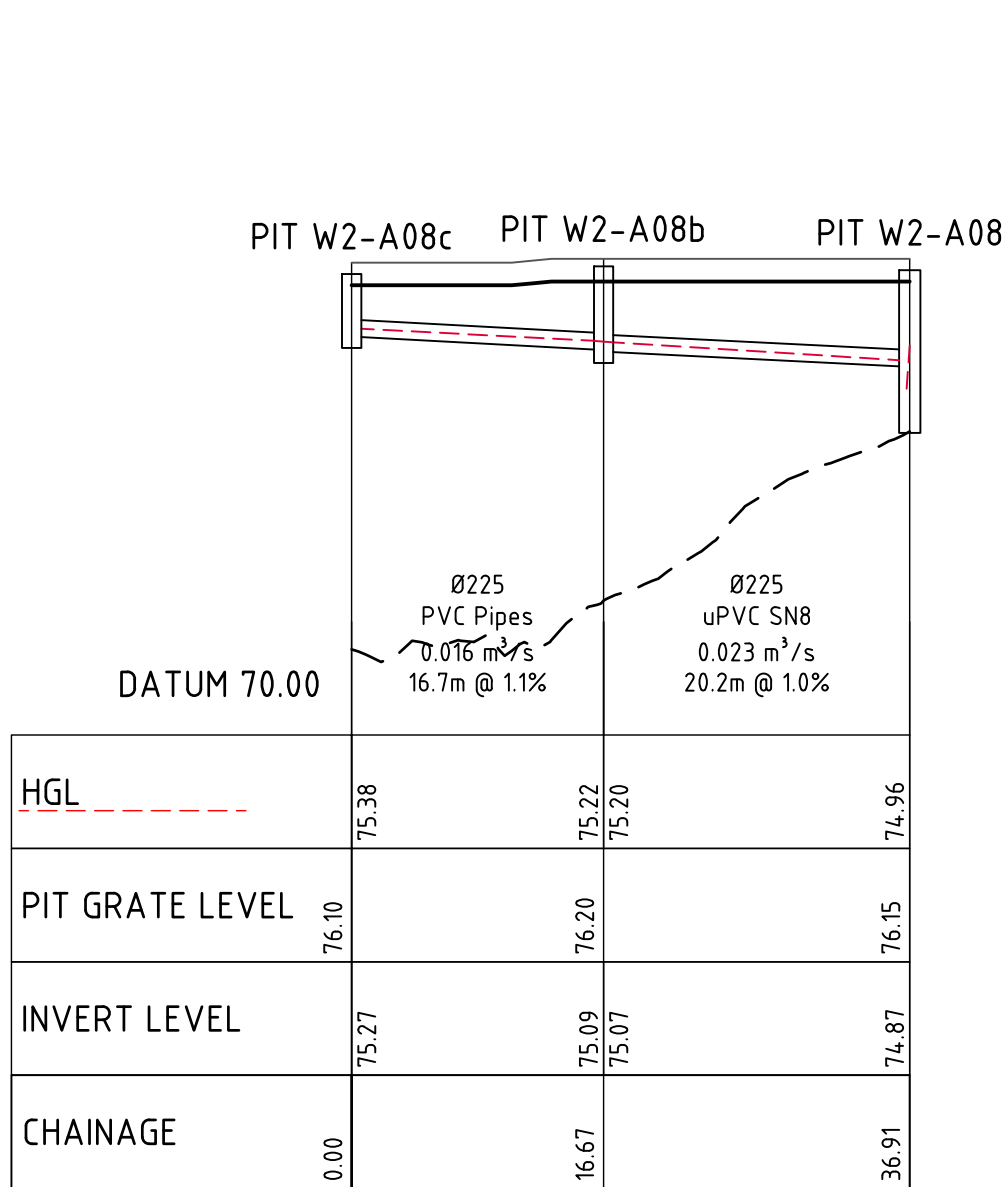
NOTE:

----- H.G.L & FLOWRATE SHOWN FOR Q20 A.R.I STORM EVENT



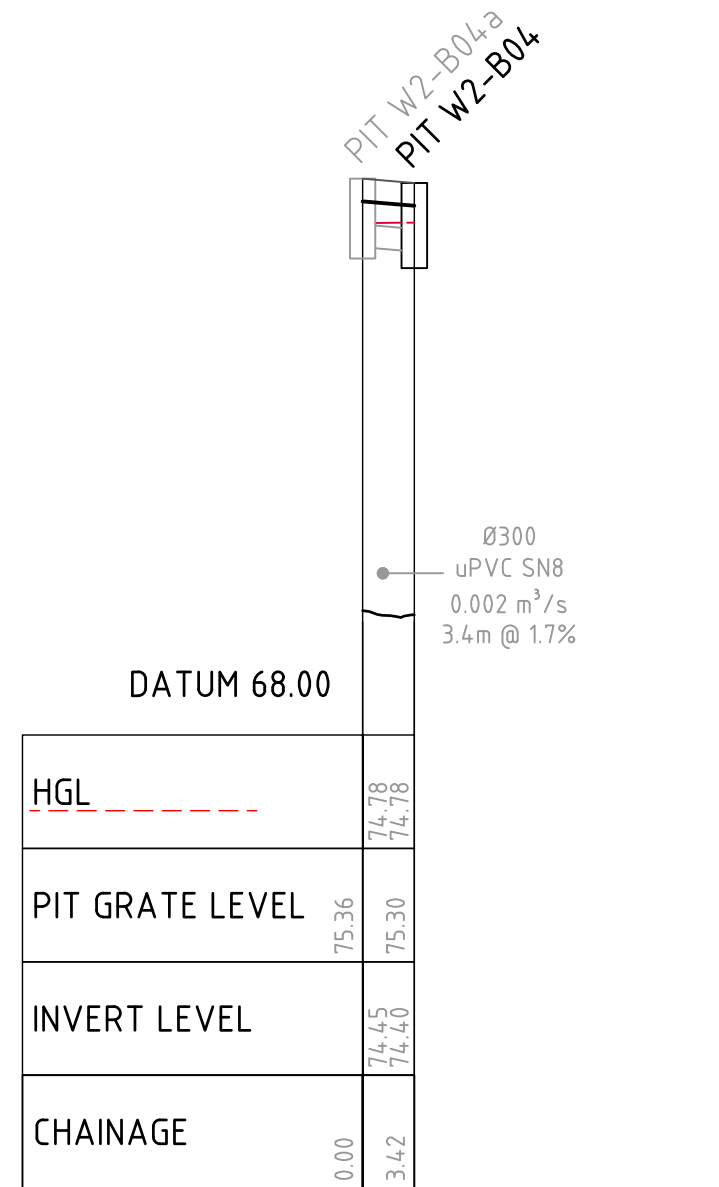
PIT W2-A08a TO PIT W2-A08

HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100



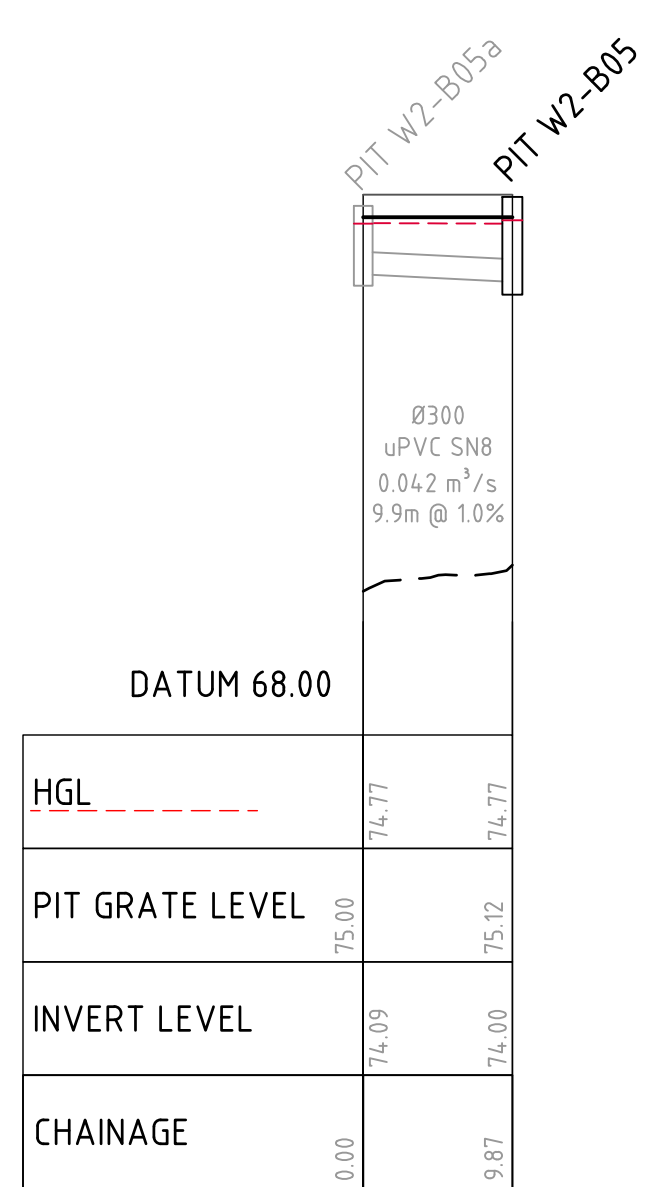
PIT W2-A08c TO PIT W2-A08

HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100



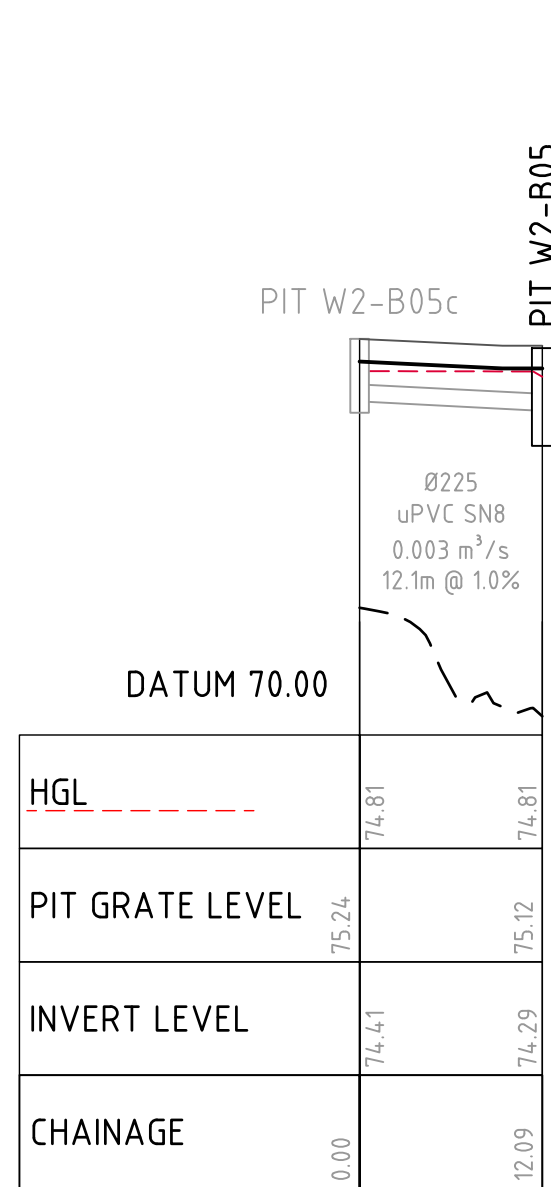
PIT W2-B04a TO PIT W2-B04

HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100



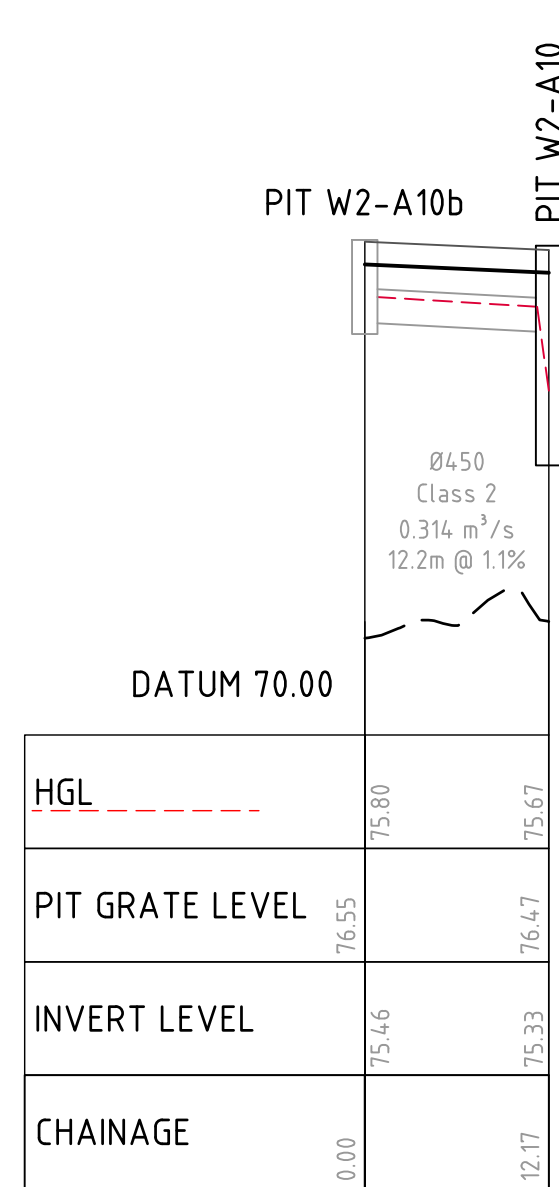
PIT W2-B05a TO PIT W2-B05

HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100



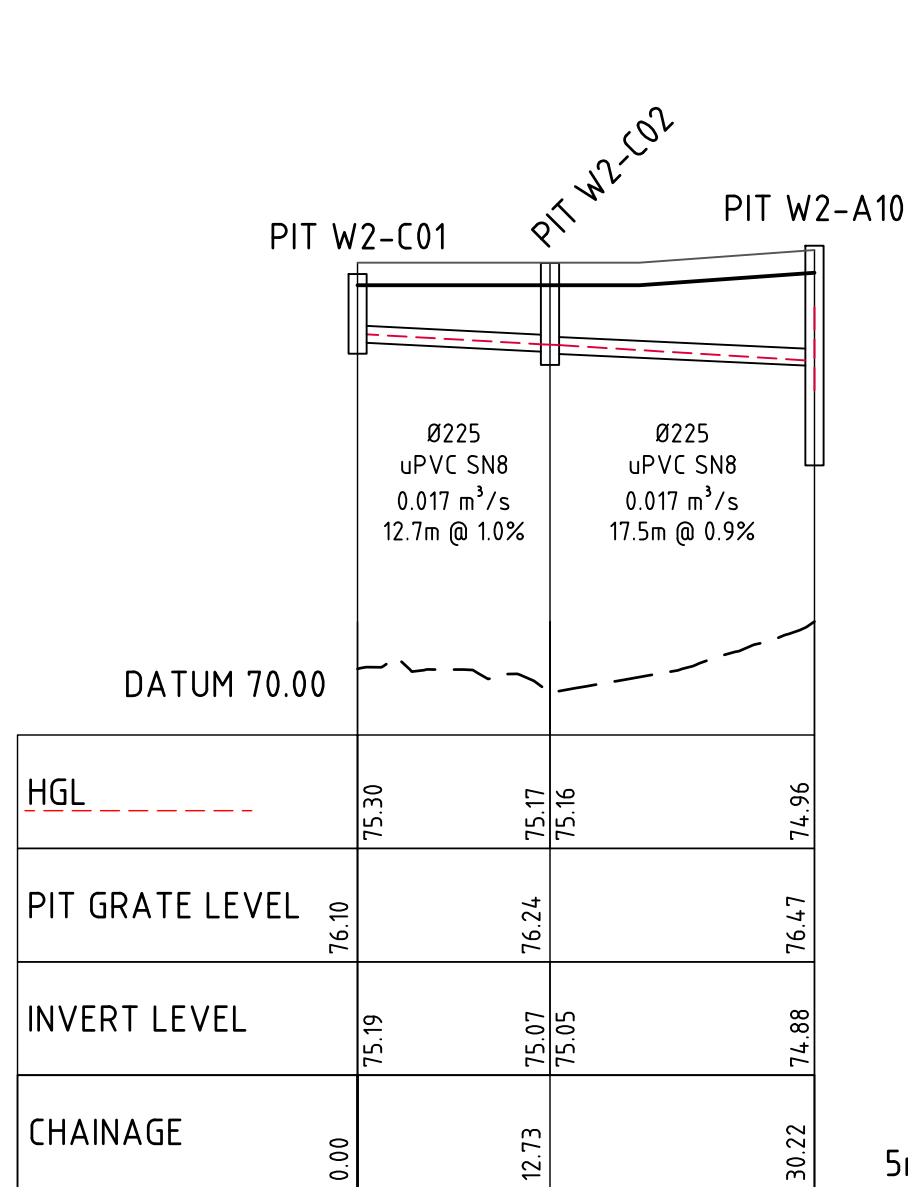
PIT W2-B05c TO PIT W2-B05

HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100



PIT W2-B10a TO PIT W2-B10

HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100



PIT W2-C01 TO PIT W2-B10

HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100

5m 0 10 20 30 40 50m
SCALE 1:500 AT B1 SIZE SHEET

1m 0 1 2 3 4 5 6 7 8 9 10m
SCALE 1:100 AT B1 SIZE SHEET

Compliance Certificate
Certificate Number: 250062CC05
Issuing Officer: Sammy Gazal
Registration Number: BDC05310
These plans/specifications form part of the certificate issued: 01/09/2026

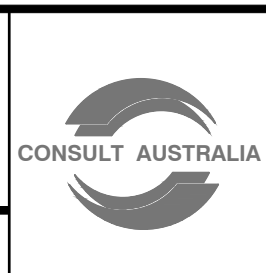
PRELIMINARY ONLY

HGL AND FLOW COORDINATED WITH LATEST HYDRAULIC MODEL	25.08.26	F
REVISED AS CLOUDED	21.08.26	E
REVISED AS CLOUDED	19.08.26	D
REVISED AS CLOUDED	04.08.26	C
ISSUED FOR PRELIMINARY	25.06.26	B
ISSUED FOR PRELIMINARY	10.06.26	A
AMENDMENTS	DATE	ISSUE

ARCHITECT	
02 9929 9998	e: info@sba.au
	w: www.sba.au

CLIENT	

PROJECT	PROPOSED WAREHOUSE DISTRIBUTION AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148
DESIGNED	LDV
DRAWN	KP
DATE	MAY 2026
CHECKED	MW
SIZE	B1
SCALE	AS SHOWN
CAD REF:	C013904.07-S2EW472



Costin Roe Consulting Pty Ltd.
ABN 50 003 696 446
PO Box N419 Sydney NSW 1220
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e: mail@costinroe.com.au w: costinroe.com.au

	CIVIL & STRUCTURAL ENGINEERS
--	---

DRAWING TITLE	WH2 STORMWATER LONG SECTIONS
DRAWING No	C013904.07-S2EW472
ISSUE	F

NOTE:

----- H.G.L. & FLOWRATE SHOWN FOR Q20 A.R.I STORM EVENT

This Design Compliance Certificate applies only to the stormwater drainage lines shown in blue on the stamped plans and OSD Tanks 1, 2, 3A and 3B. All swales, Basin 4, Blacktown Creek works, and any other stormwater infrastructure are excluded from this certificate.

Structural plans and certification for all OSD tanks listed above must be provided prior to installation.

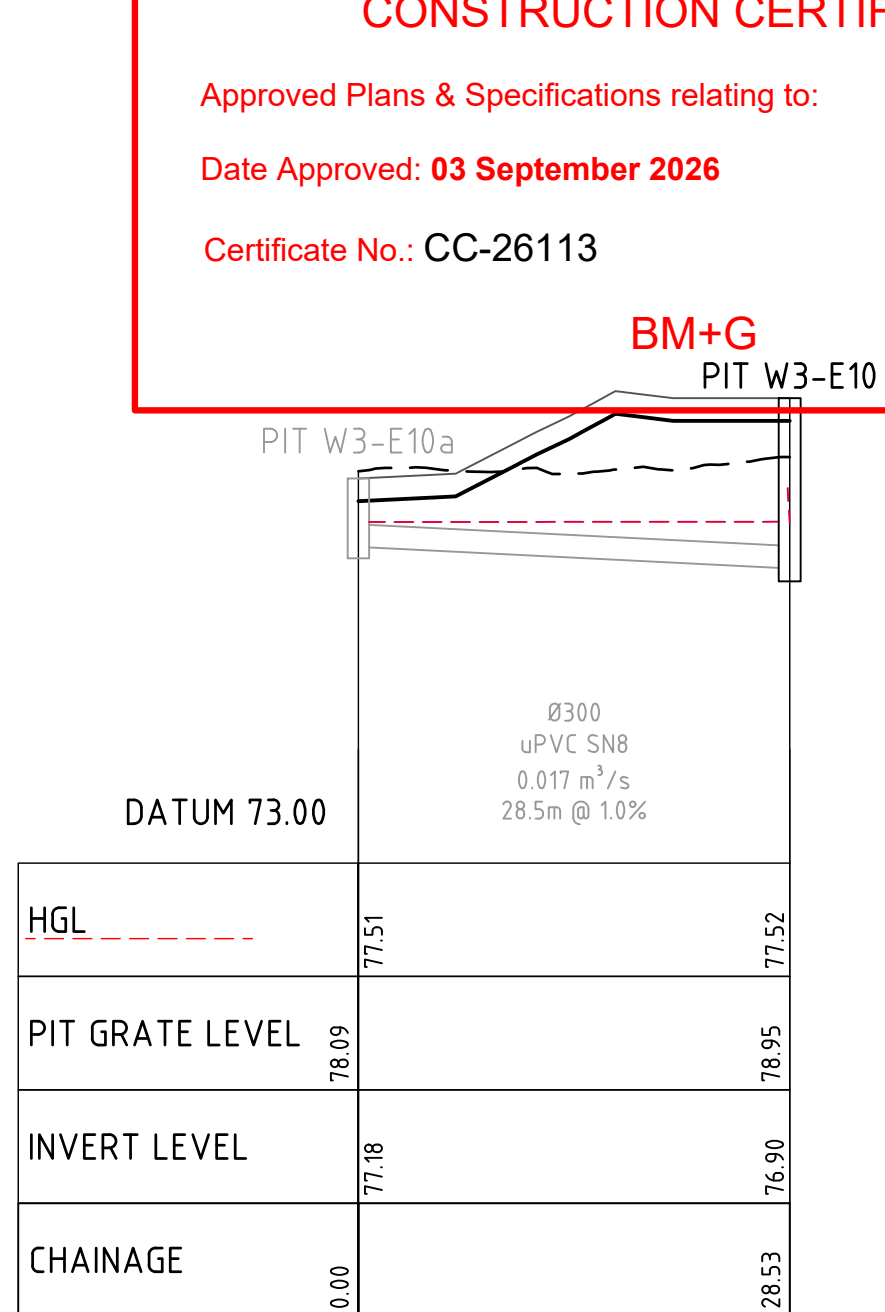
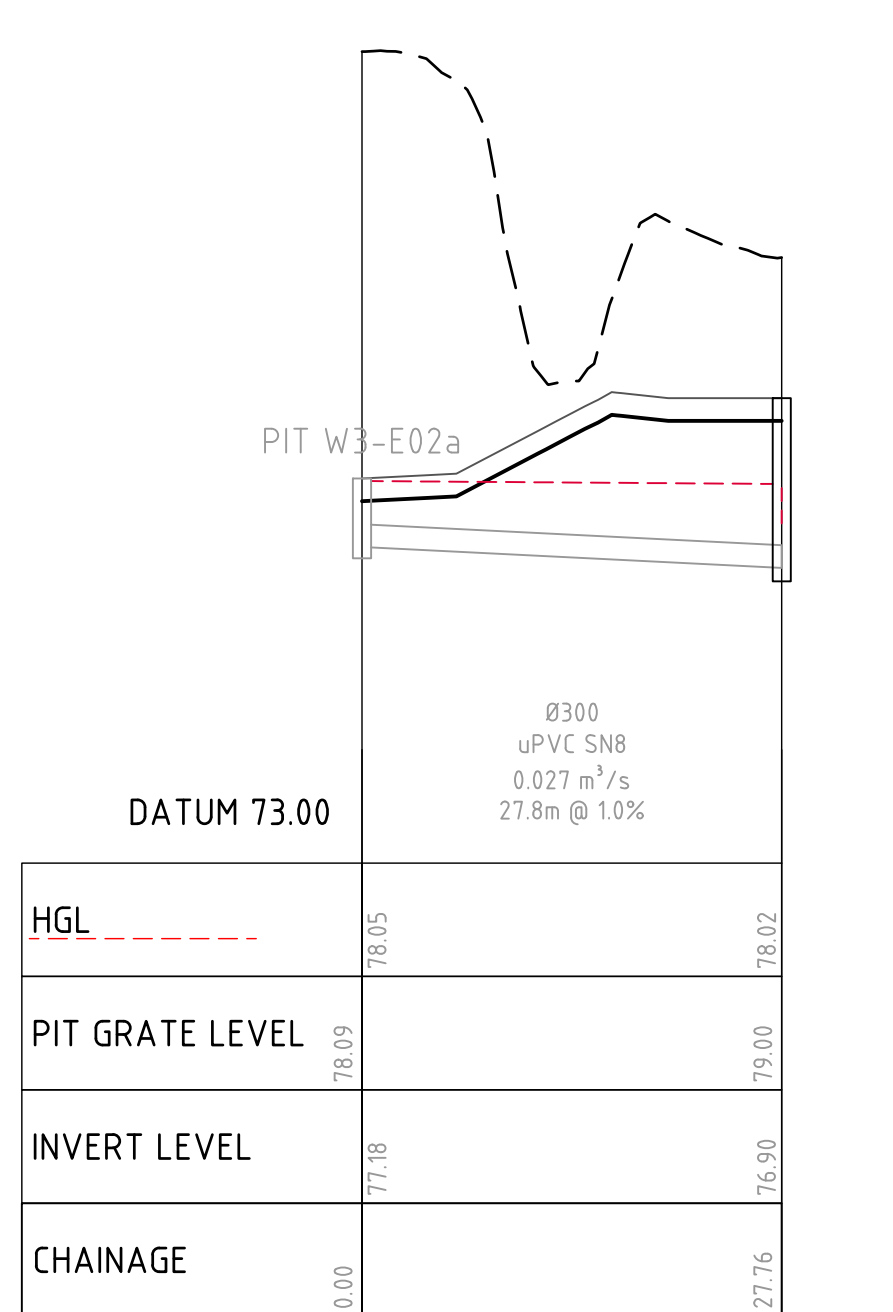
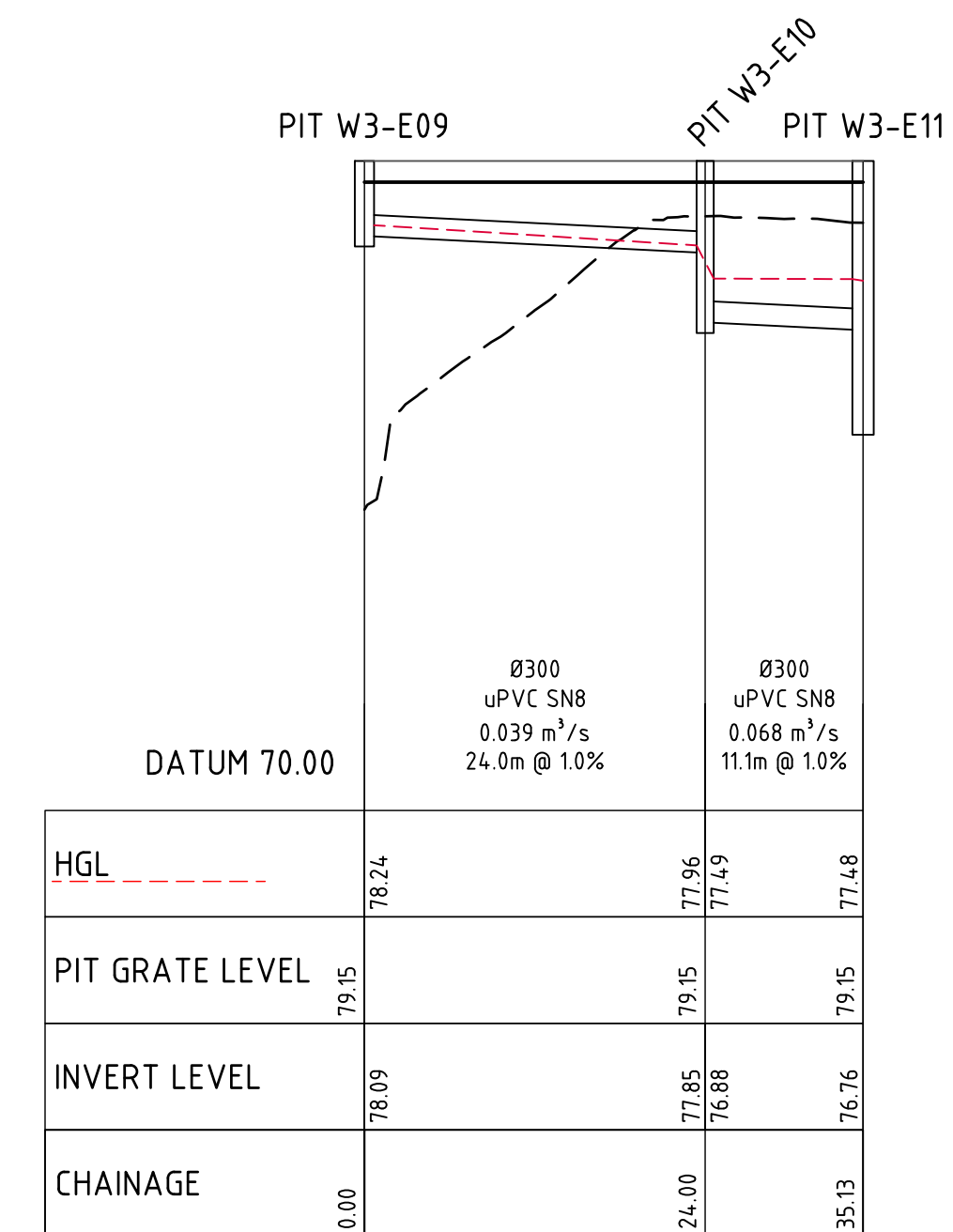
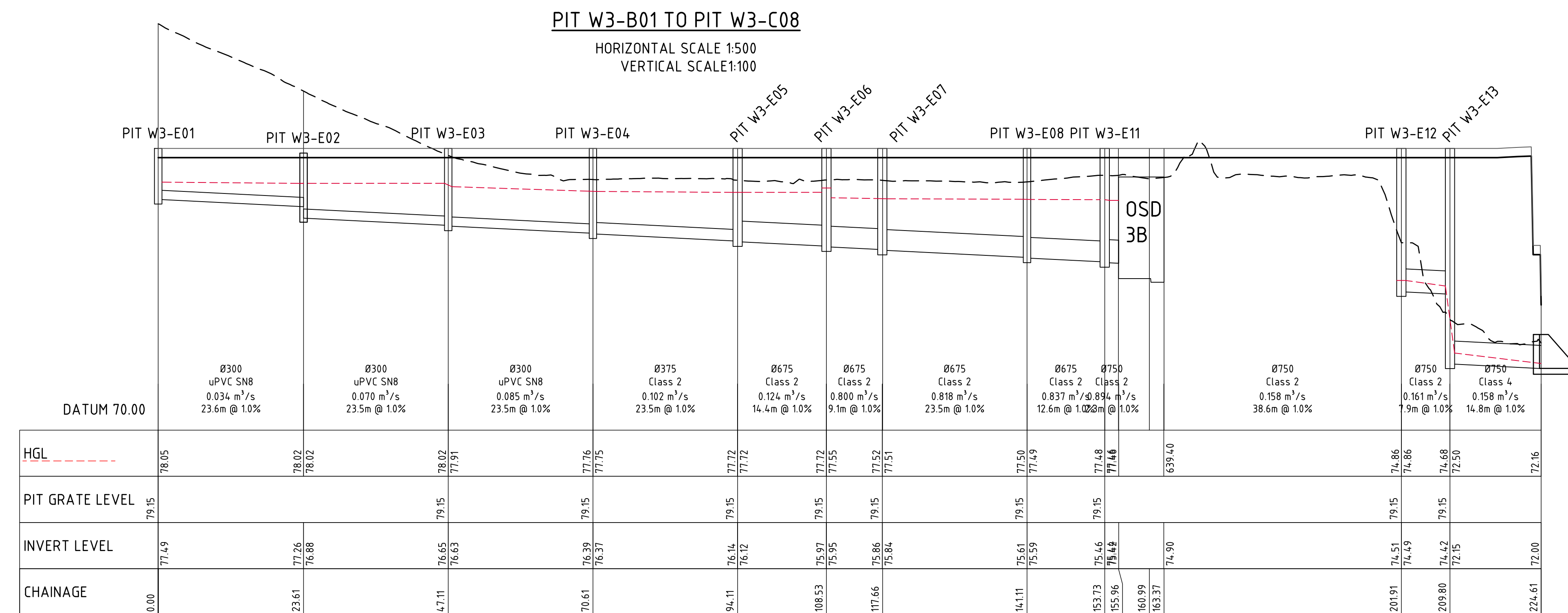
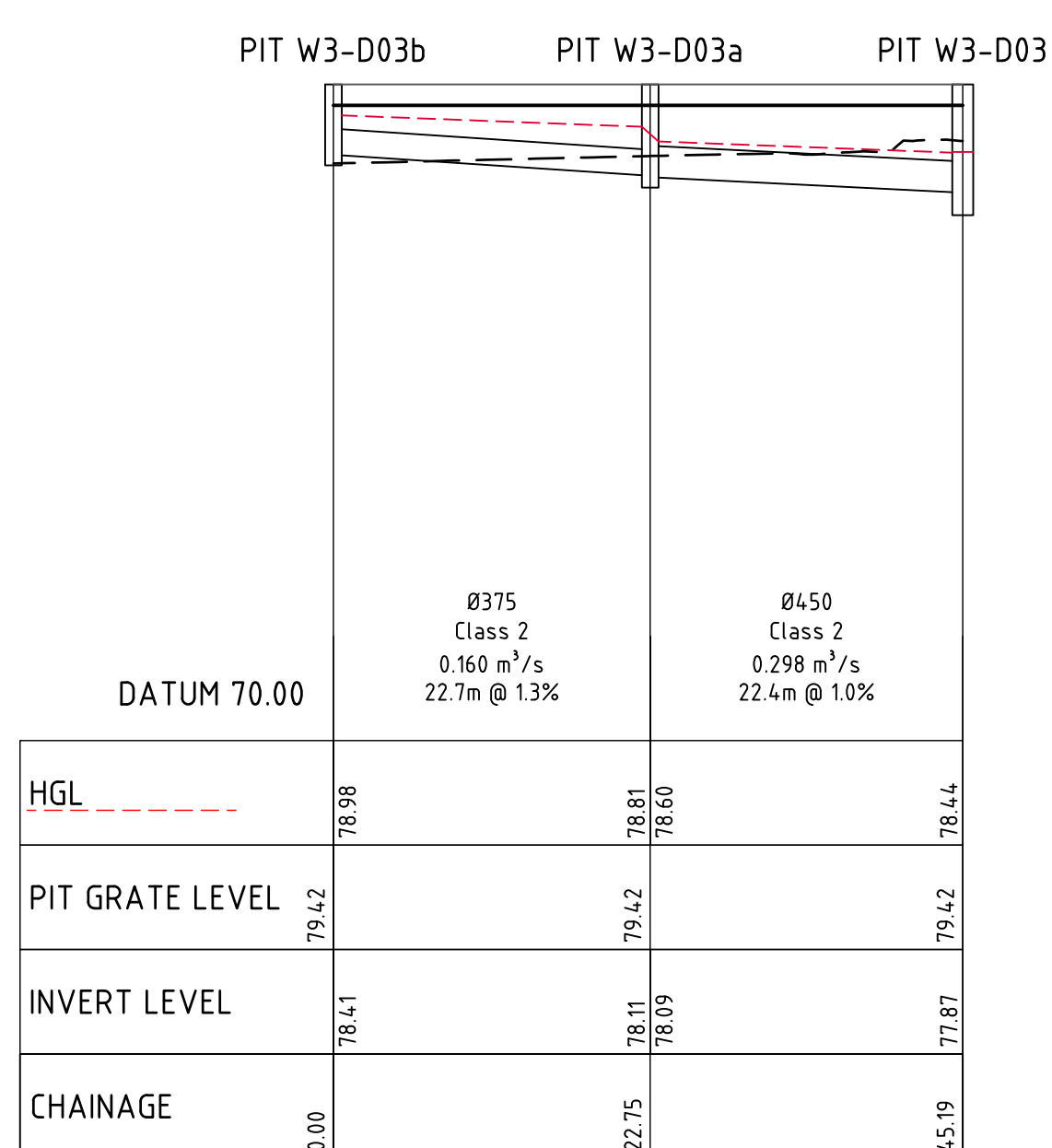
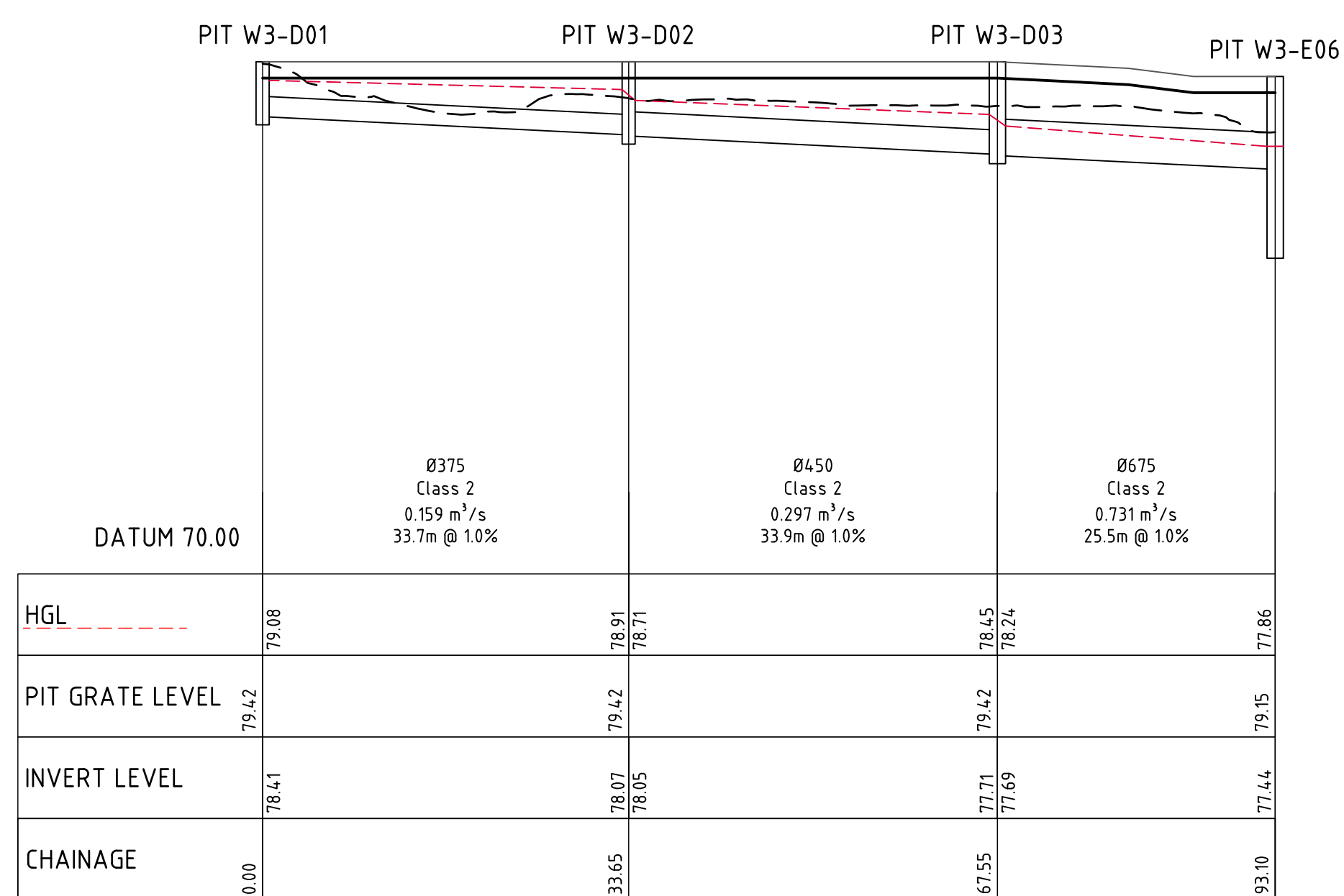
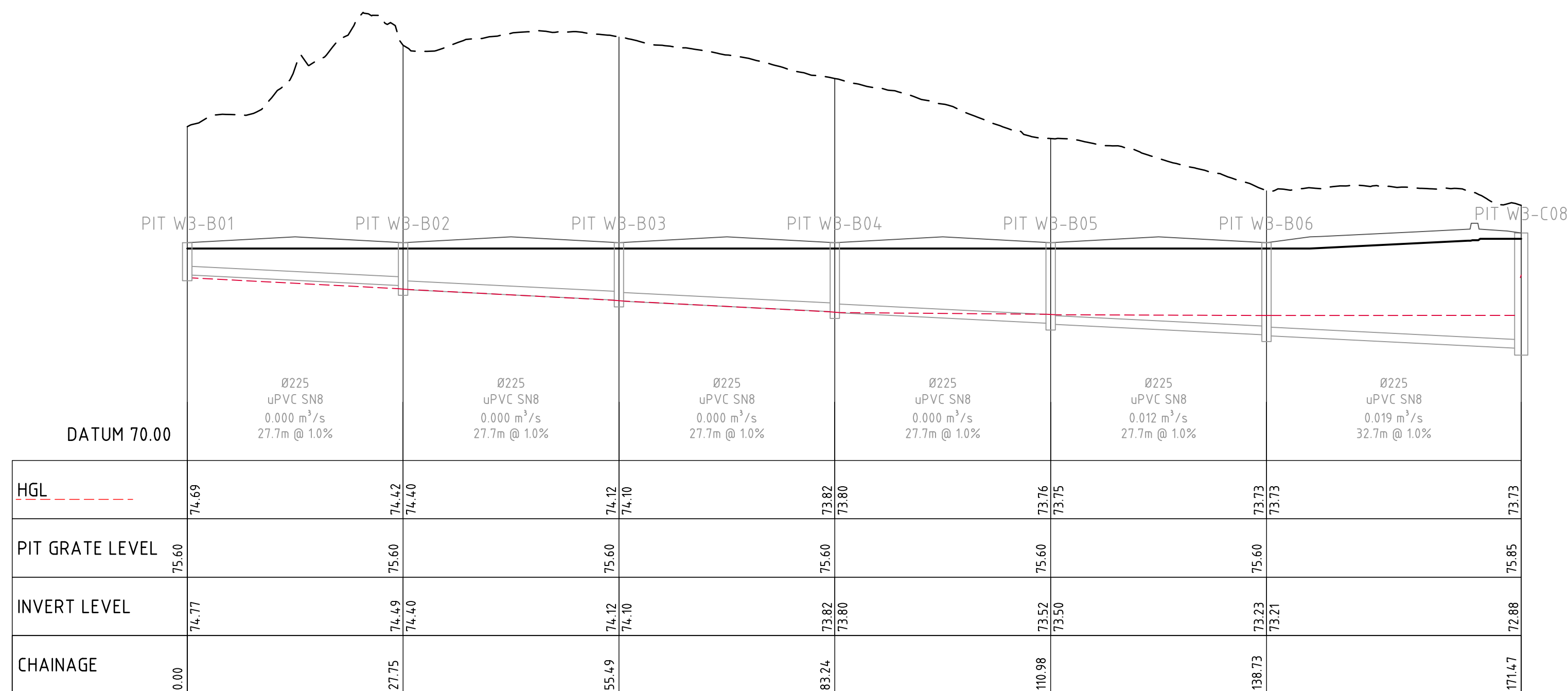
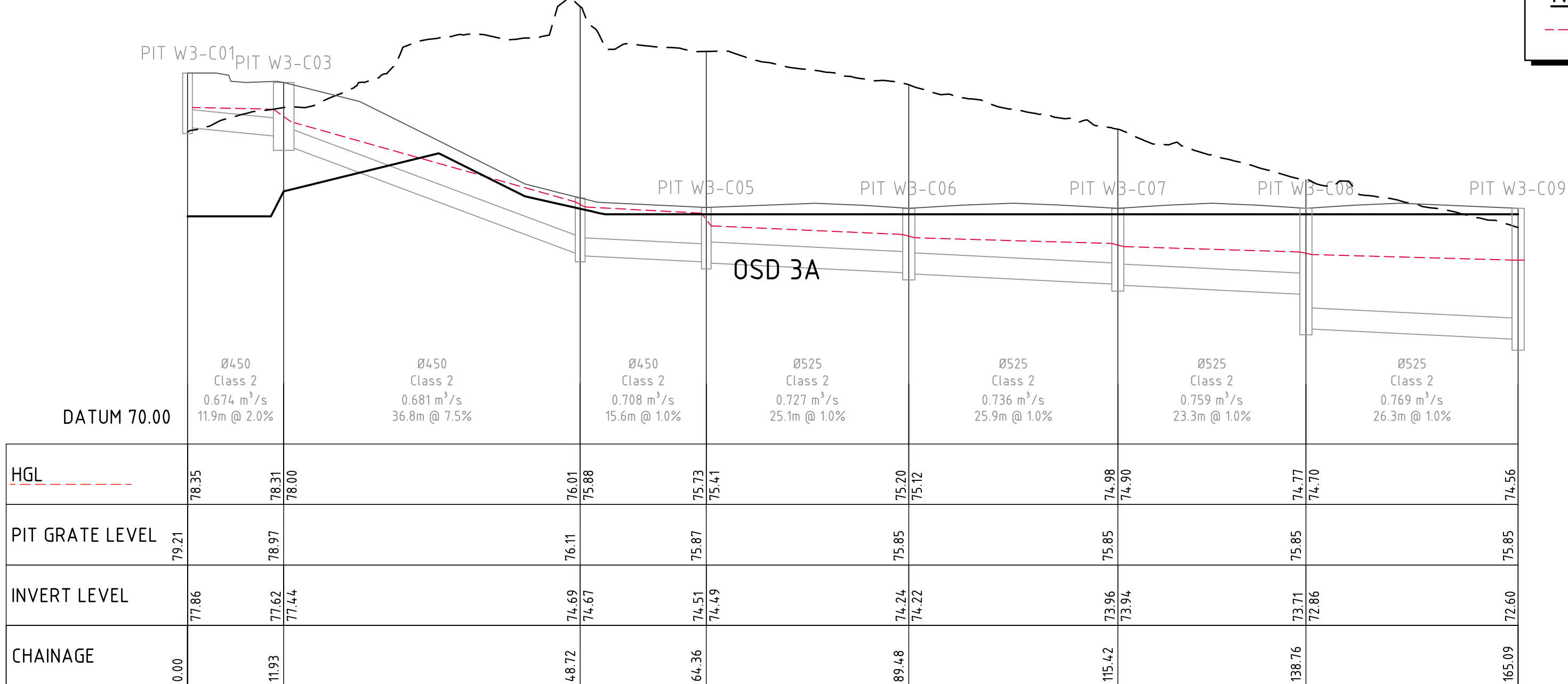
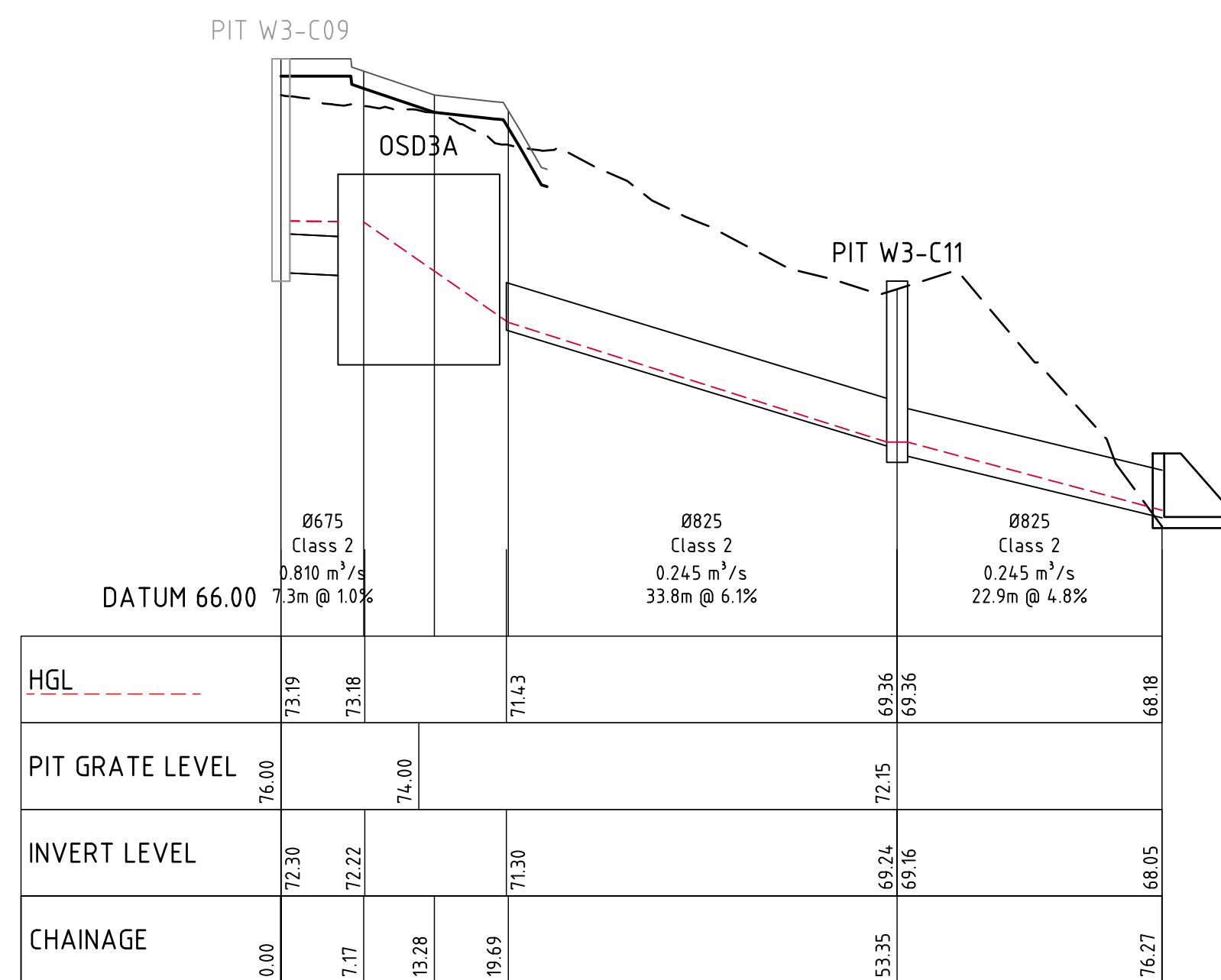
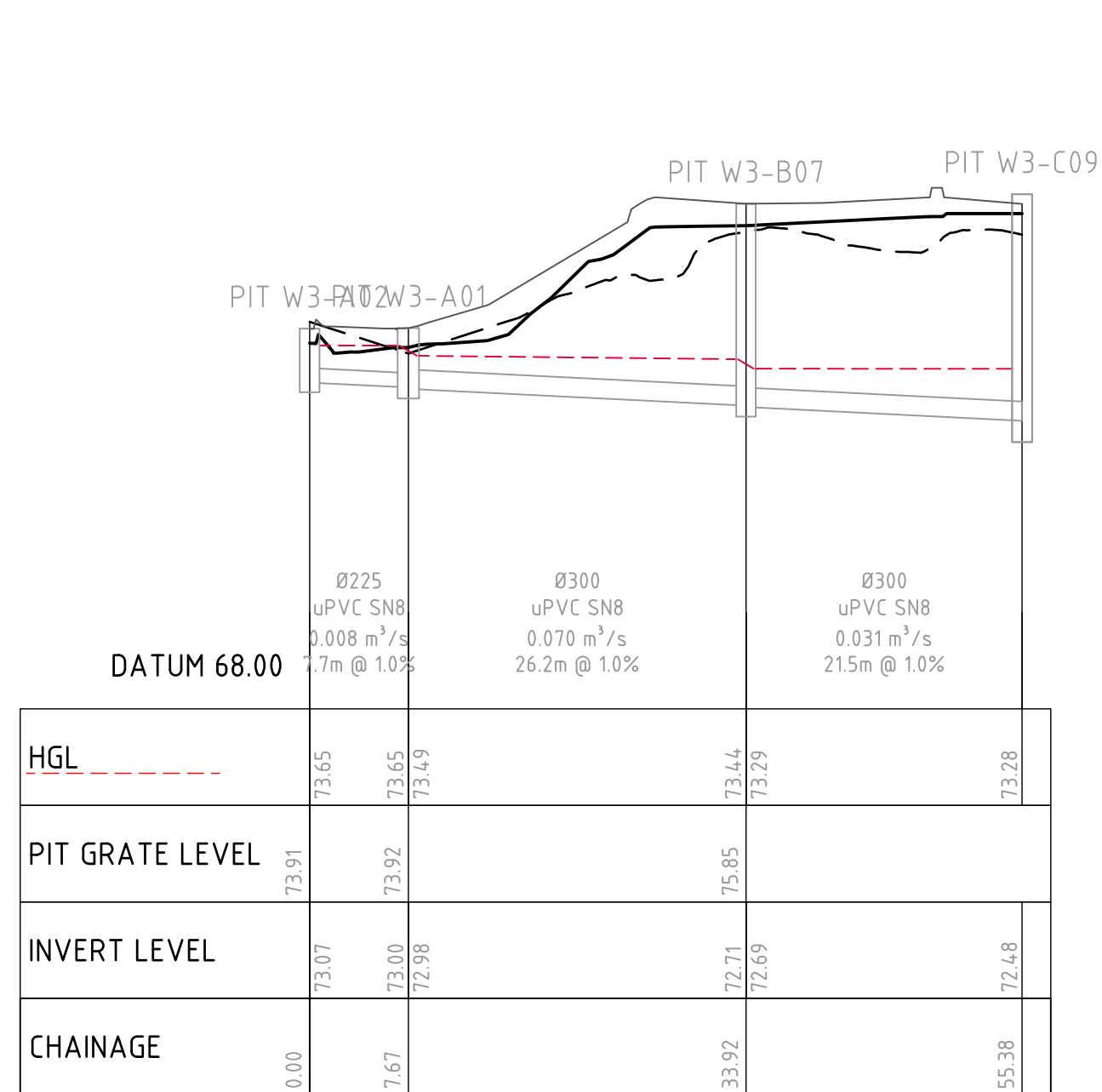
Compliance Certificate

Certificate Number: 250062CC05

Issuing Officer: Sammy Gazal

Registration Number: BDC05310

These plans/specifications form part of the certificate issued: 01/09/2026



CONSTRUCTION CERTIFICATE

Approved Plans & Specifications relating to:

Date Approved: 03 September 2026

Certificate No.: CC-26113

BM+G

PIT W3-E10

CONSTRUCTION CERTIFICATE

HGL AND FLOW COORDINATED WITH LATEST HYDRAULIC MODEL	25.08.26	E
REVISED AS CLOUDED	21.08.26	D
REVISED AS CLOUDED	19.08.26	C
ISSUED FOR CONSTRUCTION CERTIFICATE	08.07.26	B
ISSUED FOR PRELIMINARY	25.06.26	A
AMENDMENTS	DATE	ISSUE

ARCHITECT	
PACEARCHITECTS	
CLIENT	
AWJ	
PROJECT	
PROPOSED WAREHOUSE DISTRIBUTION	
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148	
DESIGNED	LDV
DRAWN	KP
DATE	MAY 2026
CHECKED	MW
SIZE	B1
SCALE	AS SHOWN
CAD REF:	C013904.07-S2EW473

PROJECT	
PROPOSED WAREHOUSE DISTRIBUTION	
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148	
DESIGNED	LDV
DRAWN	KP
DATE	MAY 2026
CHECKED	MW
SIZE	B1
SCALE	AS SHOWN
CAD REF:	C013904.07-S2EW473

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CRC	
COSTIN ROE CONSULTING	
CIVIL & STRUCTURAL ENGINEERS	

DRAWING TITLE	
WH3 STORMWATER LONG SECTIONS	
DRAWING No	C013904.07-S2EW473
ISSUE	E

CONSTRUCTION CERTIFICATE

Approved Plans & Specifications relating to:

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BM+G

