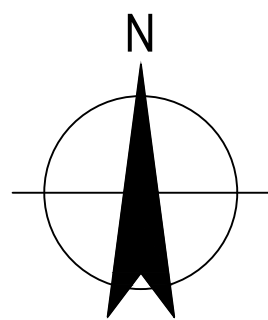


# AUSTRALIAN GOVERNMENT NATIONAL CAPITAL AUTHORITY

## SCRIVENER DAM DISSIPATOR STRENGTHENING PROJECT



LOCALITY PLAN  
SCALE : NTS

DRAWING INDEX

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12591211-S301	536716	DISSIPATOR UPGRADE GAUGE BOARD DETAILS
12591211-S401	543686	DISSIPATOR UPGRADE INSTRUMENTATION DETAILS

NOT FOR CONSTRUCTION

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Rev	Description	Checked	Approved Date
Author	E.PAZ	Drafting Check	B.SACAYANAN
Designer	J.GALLUP	Design Check	L.NEUMANN

Plot Date: 9 November 2023 - 10:28 AM Plotted by: Edgardo Paz

File Name: \\ghdnet\ghd\AU\Melbourne\Projects\31\12591211\CADD\Drawings\12591211-G001.dwg





GENERAL

- G1. THE GENERAL NOTES ON THIS DRAWING SHALL APPLY TO ALL THE DRAWINGS UNLESS NOTED OTHERWISE
- G2. SCALES ARE AS SHOWN
- G3. THE PROJECT DATUM IS:  
CO-ORDINATES - LOCAL GRID BASED ON MGA94 ZONE 56 LEVEL DATUM - AHD
- G4. ALL DIMENSIONS RELEVANT TO SETTING OUT SHALL BE VERIFIED BY THE CONTRACTOR AND ADVISE ANY DISCREPANCIES TO THE SUPERINTENDENT PRIOR TO COMMENCING FABRICATION OR CONSTRUCTION.
- G5. THE DRAWINGS INCLUDING THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE PROJECT SPECIFICATION
- G6. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH OTHER ENGINEERING DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED.
- G7. NOMINATION OF PROPRIETARY ITEMS DOES NOT INDICATE EXCLUSIVE PREFERENCE BUT INDICATES THE REQUIRED PROPERTIES OF THE ITEM. SIMILAR ALTERNATIVES HAVING THE REQUIRED PROPERTIES MAY BE OFFERED FOR APPROVAL. APPROVAL IS NOT AN AUTHORISATION FOR EXTRA PAYMENT OR WORK.
- G8. REFER ANY DISCREPANCY TO THE SUPERINTENDENT
- G9. ALL SERVICES HAS NOT BEEN SHOWN HEREON. PRIOR TO COMMENCEMENT OF WORKS ALL EXISTING SERVICES SHALL BE LOCATED BY THE CONTRACTOR.
- G10. INFRASTRUCTURE COMPONENTS THAT ARE PRE-EXISTING HAVE BEEN DEMARCATED AND ANNOTATED AS "EXISTING". CONVERSELY, NEWLY INCORPORATED ELEMENTS WITHIN THE PROJECT SCOPE HAVE NOT BEEN DISTINCTLY LABELED.
- G11. DIMENSIONS SHALL NOT BE OBTAINED BY SCALING FROM THE DRAWINGS. ALL DIMENSIONS ARE IN MILLIMETRES AND ALL LEVELS IN METRES, UNLESS NOTED OTHERWISE.
- G12. DIMENSIONS LABELED AS "NOMINAL" DENOTE APPROXIMATE VALUES AND ARE INDICATIVE ONLY.
- G13. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE PROJECT SPECIFICATION AND REQUIREMENTS OF ALL RELEVANT AUSTRALIAN CODES AND THE BY-LAWS AND ORDINANCES OF THE RELEVANT BUILDING AUTHORITY.
- G14. EXISITNG STRUCTURES SHALL BE MAINTAINED IN STABLE CONDITIONS DURING CONSTRUCTION. NO PART SHALL BE OVERSTRESSED.
- G15. THE CONTRACTOR SHALL MAINTAIN ACCURATE RECORDS OF LEVELS AND LOCATIONS OF SERVICES TO FULLY COMPLY WITH LOCAL AUTHORITY 'AS CONSTRUCTED' INFORMATION REQUIREMENTS. THESE SHALL BE DOCUMENTED AND MARKED ON SITE WITH STAINLESS STEEL/BRASS LABELS DETAILING DIRECTION AND SERVICE TYPE.
- G16. FOUNDATION LEVELS SHOWN ON THE DRAWINGS ARE INDICATIVE ONLY. ACTUAL LEVELS MAY VARY
- G17. CLEARING AND DISTURBING OF VEGETATION SHALL BE KEPT TO A MINIMUM AND SHALL BE LIMITED TO WORKS AREA
- G18. GENERAL ABBREVIATIONS
- UNO - UNLESS NOTED OTHERWISE.
- G19. ALL WORK SHALL COMPLY WITH THE STATUTORY REQUIREMENT FOR OCCUPATIONAL HEALTH AND SAFETY AND BE IN ACCORDANCE WITH THE APPROVED CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN.
- G20. UPON COMPLETION OF CONSTRUCTION THE WHOLE SITE SHALL BE CLEANED UP AND REINSTATED. ALL RUBBISH SHALL BE REMOVED AND THE SITE SHALL BE LEFT IN A CLEAN AND TIDY CONDITION TO THE SATISFACTION OF THE SUPERINTENDENT AND NATIONAL CAPITAL AUTHORITY (NCA).

SURVEY

- V1. GEOMETRY AND DETAILS OF THE DAM AND ASSOCIATED STRUCTURES WERE DEVELOPED BASED ON WORK-AS-EXECUTED DRAWINGS AND OTHER DATA PROVIDED BY NATIONAL CAPITAL AUTHORITY.
- V2. WORK-AS -EXECUTED DRAWINGS HAVE BEEN CONVERTED INTO THE AUSTRALIAN HEIGHT DATUM (AHD) USING THE FOLLOWING CONVERSION:  
REDUCED LEVEL (IMPERIAL) x 0.3048 - 0.3348 = ELEVATION (AHD, METERS)
- V3. ALL LEVELS INDICATED THROUGHOUT THE DOCUMENTATION HAVE BEEN EXPRESSED AS 'RL'(AS THEY HAVE HISTORICALLY BEEN SHOWN FOR THIS SITE).

DEMOLITION

- DE1. DEMOLITION SHALL BE UNDERTAKEN IN ACCORDANCE WITH THE PROJECT SPECIFICATION
- DE2. BLASTING SHALL NOT BE PERMITTED

EXISTING SERVICES

- EXS1. EXISITNG INSTRUMENTATION SHALL REMAIN OPERATIONAL THROUGHOUT THE PROJECT AND SHALL NOT BE DISTURBED BY THE WORKS
- EXS2. EXISTING DISSIPATOR UNDERDRAINAGE IS TO BE RETAINED AND SHALL NOT BE DISTURBED BY THE WORKS

SURFACE PREPARATION

- SP1. THE SURFACES OF THE EXISTING CONCRETE AGAINST WHICH CONCRETE (UNO) IS TO BE PLACED SHALL BE PROPERLY PREPARED BY HYDRO-DEMOLITION PRIOR TO PLACING FORMWORK AND REINFORCEMENT WITH SUFFICIENTLY HIGH PRESSURE TO REMOVE ANY LAITANCE, ORGANIC MATTER AND/OR ANY OTHER DELETERIOUS MATERIAL, AND TO REMOVE SUFFICIENT SURFACE MORTAR TO EXPOSE TYPICALLY ONE THIRD THE COARSE AGGREGATE DIAMETER WHILE LEAVING THE COARSE AGGREGATE FIRMLY EMBEDDED IN THE MORTAR MATRIX WITHOUT UNDERCUTTING

CONCRETE

- C1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600 CURRENT EDITION WITH AMENDMENTS, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
- C2. CONCRETE MIXES SHALL BE APPROVED BY THE SUPERINTENDENT. EXPOSURE CLASSIFICATION SHALL BE B1. THE COVER SHALL BE 75mm UNLESS NOTED OTHERWISE.
- C3. CONCRETE SHALL BE 32MPA
- C4. MATERIALS FOR CONCRETE SHALL COMPLY WITH THE REQUIREMET OF THE FOLLOWING AUSTRALIAN STANDARDS AS APPLICABLE:  
AS3972 PORTLAND AND BLENDED CEMENTS  
AS2758.1 CONCRETE AGGREGATES  
AS1478 CHEMICAL ADMIXTURES FOR CONCRETE
- C5. ADDITIVES SHALL NOT BE USED WITHOUT PRIOR APPROVAL FROM THE SUPERINTENDENT.
- C6. WATER USED FOR CONCRETE SHALL BE FREE FROM ALL SUBSTANCES HARMFUL TO CONCRETE AND STEEL.
- C6. EXCEPT AS OTHERWISE SPECIFIED THE MIXING, DELIVERY AND TESTING OF READY MIXED CONCRETE SHALL COMPLY WITH AS1379, THE PROJECT SPECIFICATION AND MANUFACTURE OF CONCRETE
- C7. PROVIDE ALL EXPOSED EDGES AND CORNERS WITH 20 CHAMFERS OR FILLETS, UNO.
- C8. FORMWORK AND ITS REMOVAL TO BE IN ACCORDANCE WITH THE PROJECT SPECIFICATION.
- C9. FORM ALL CONSTRUCTION JOINTS AND USE ONLY WHERE SHOWN.
- C10. CURING OF CONCRETE SHALL BE COMMENCED AS SOON AS POSSIBLE AFTER PLACING OR STRIPPING. REFER 'CURING' IN AS 3600 & THE PROJECT SPECIFICATION.
- C11. CONSTRUCTION TOLERANCES TO BE IN ACCORDANCE WITH THE PROJECT SPECIFICATION, OR AS3600 AND AS3610.1.
- C12. FORMED SURFACE FINISHES TO BE IN ACCORDANCE WITH THE PROJECT SPECIFICATION. THE ACCEPTANCE CRITERIA FOR SURFACE FINISHES AS NOTED ON THE DRAWINGS SHALL BE AS FOLLOWS:

FORMED SURFACES

- CLASS F1
- ABRUPT IRREGULARITIES NOT ACCEPTED
  - GRADUAL IRREGULARITIES LESS THAN 6mm
  - BLOWHOLE DEPTH LESS THAN 6mm
- CLASS F2
- ABRUPT IRREGULARITIES LESS THAN 6mm
  - GRADUAL IRREGULARITIES LESS THAN 12mm
  - BLOWHOLE DEPTH LESS THAN 10mm

- CLASS F3
- ABRUPT AND GRADUAL IRREGULARITIES LESS THAN 25mm
  - BLOWHOLE DEPTH LESS THAN 10mm

DEFINITION: OFFSETS RESULTING FROM DISPLACED OR MISPLACED FORM SECTIONS FROM LOOSE KNOTS OR OTHERWISE DEFECTIVE FORMS, TO BE CLASSED AS ABRUPT IRREGULARITIES AND BE ASSESSED BY DIRECT MEASUREMENT. GRADUAL IRREGULARITIES TO BE MEASURED FROM A STRAIGHT TEMPLATE 1.5m LONG.

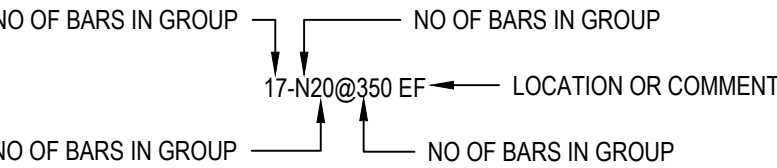
BAGGED SURFACE FINISH PROHIBITED.

UNFORMED SURFACES

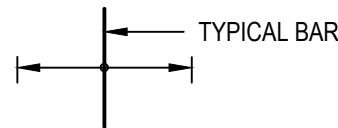
- CLASS U1 - STEEL TROWELLED FINISH
- ABRUPT IRREGULARITIES NOT ACCEPTED
  - GRADUAL IRREGULARITIES LESS THAN 5mm
- CLASS U2 - WOOD FLOAT FINISH
- ABRUPT AND GRADUAL IRREGULARITIES LESS THAN 5mm
- CLASS U3 - SCREEDED FINISH
- ABRUPT AND GRADUAL IRREGULARITIES LESS THAN 10mm
- DEFINITION: VERTICAL OFFSETS TO BE CLASSED AS ABRUPT IRREGULARITIES AND BE ASSESSED BY DIRECT MEASUREMENT. GRADUAL IRREGULARITIES TO BE MEASURED FROM A STRAIGHT TEMPLATE 3m LONG
- C13. UNO, UNFORMED SURFACES SHALL BE U2 AND FORMED SURFACES SHALL BE F1.
- C14. JOINT DESCRIPTORS
- C/J - CONTRACTION JOINT
  - CJ - CONSTRUCTION JOINT
- C15. RC DENOTES REINFORCED CONCRETE
- C16. NO HOLES, CHASES OR EMBEDMENTS OTHER THAN THOSE SHOWN ON THE DRAWINGS SHALL BE MADE IN THE CONCRETE WITHOUT THE APPROVAL OF THE SUPERINTENDENT.

REINFORCEMENT

- R1. SYMBOLS ON DRAWINGS FOR GRADE AND TYPE OF REINFORCEMENT ARE AS FOLLOWS:  
N DENOTES GRADE 500 NORMAL DUCTILITY DEFORMED BAR TO AS/NZS 4671
- R2. DESIGNATION OF REINFORCEMENT BARS IS AS FOLLOWS:



- R3. THE FOLLOWING ABBREVIATIONS APPLY TO THE LOCATION OF REINFORCEMENT:
- EW - EACH WAY
  - FF - FAR FACE
  - EF - EACH FACE
  - NF - NEAR FACE
  - B - BOTTOM
  - T - TOP
- R4. UNO, COGS AND HOOKS TO BE STANDARD IN ACCORDANCE WITH AS 3600.
- R5. EXTENT OF BARS SHOWN THUS:



- R6. REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND IS NOT NECESSARILY IN TRUE PROPORTION.
- R8. MAINTAIN NOMINAL CLEAR CONCRETE COVER TO REINFORCEMENT (INCLUDING FITMENTS) BY APPROVED CHAIRS, SPACERS, OR TIES AS REQUIRED TO PROVIDE ADEQUATE SUPPORT.
- R9. SPLICE REINFORCEMENT ONLY AT LOCATIONS SHOWN ON DRAWINGS. LAP LENGTH BARS SHALL BE AS PER TABLES FOLLOWING HEREWITH UNO. STAGGER LAPS WHERE POSSIBLE, WITH LAPS ON ADJACENT BARS ON ANY FACE STAGGERED BY NO LESS THAN THE LAP LENGTH. WHERE MORE THAN 50% OF BARS ARE LAPPED IN ANY CROSS SECTION ON ANY FACE, THE LAP LENGTHS AS FOLLOWS SHALL BE INCREASED BY A FACTOR OF 1.25.

CONCRETE STRENGTH = 32MPa		
BAR Ø	>300mm CONCRETE CAST BELOW THE BAR (mm)	ALL OTHER BARS (mm)
12	500	400
16	700	550
20	850	700
24	1000	800
28	1300	1100
32	1600	1300

- R10. WELDING OF REINFORCEMENT IS NOT PERMITTED.
- R11. REINFORCING BARS EXPOSED BY CONCRETE CUTTING OR DRILLING SHALL BE PAINTED WITH HIGH BUILD HIGH SOLIDS EPOXY. CLEAN RUST, DUST AND LOOSE MATTER FROM ALL SURFACES TO BE PAINTED.

WATERSTOPS

- WS1. WATERSTOPS SHALL BE SUPPLIED AND INSTALLED IN ACCORDANCE WITH THE DRAWINGS AND PROJECT SPECIFICATION
- WS2. FIELD WELDING OF WATERSTOPS SHALL BE LIMITED TO END TO BUTT WELDING. ALL OTHER WATERSTOP JOINTS SHALL BE MANUFACTURED BY THE SUPPLIER UNDER CONTROLLED WORKSHOP CONDITIONS.
- WS3. FIELD WELDING SHALL BE UNDERTAKEN IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS BY AN EXPERIENCED PVC WELDER.
- WS4. WATERSTOPS SHALL BE ADEQUATELY RESTRAINED TO AVOID DISPLACEMENT OR FOLDING OF THE WATERSTOP DURING CONCRETE PLACEMENT.

DOUBLE CORROSION PROTECTION GROUTED

ANCHORS

- GD1. ANCHORS SHALL BBR-H500/550 OR APPROVED EQUIVALENT
- GD2. ANCHOR HOLES SHALL BE DRILLED, FLUSHED, WATER TESTED AND WATERPROOF GROUTED IN ACCORDANCE WITH THE PROJECT SPECIFICATION
- GD3. ON SATISFACTORY COMPLETION OF THE WATER TESTING AND WATERPROOF GROUTING THE OPENING OF THE HOLES SHALL BE CAPPED TO PREVENT THE ENTRY OF FOREIGN MATTER.
- GD4. IN ADDITION, THE CONTRACTOR SHALL HAVE AN ADEQUATE SUPPLY OF 'SEALS' ON STANDBY TO BE INSTALLED IN ALL OPEN HOLES AT SHORT NOTICE AT REQUEST OF THE SUPERINTENDENT.
- GD5. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE PROJECT SPECIFICATION AND THE CONTRACTORS APPROVED METHOD STATEMENT
- GD6. PRIOR TO INSTALLATION OF THE ANCHORS, BOND STRENGTH TESTING SHALL BE UNDERTAKEN IN ACCORDANCE WITH THE PROJECT SPECIFICATION

PIPEWORK

- P1. ALL PIPES SHALL COMPLY WITH AS 4041
- P2. ALL FLANGES SHALL COMPLY WITH AS 4087-2011 PN16 U.N.O
- P3. WHEN JOINING STAINLESS STEEL FLANGES TO CARBON STEEL FLANGES ISOLATION WASHERS AND SLEEVES SHALL BE USED.
- P4. ALL FASTENERS SHALL BE HOT DIP GALVANISED.
- P5. FOR STAINLESS STEEL FLANGES STAINLESS STEEL FASTENERS SHALL BE USED.
- P6. ALL NUTS, BOLTS, WASHERS AND OTHER FASTENERS FOR ASSEMBLY OF THE PIPES, VALVES AND COUPLINGS SHALL BE SUPPLIED BY THE CONTRACTOR.
- P7. GASKETS SHALL BE SUPPLIED TO SUIT THE PRESSURE RATING OF THE EQUIPMENT. BOLT FASTENING SEQUENCE AND TORQUE VALUES SHALL BE PROVIDED BY THE GASKET SUPPLIER.

STAINLESS STEEL

- SS1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS4673.
- SS2. STAINLESS STEEL REBAR DOWELS SHALL BE RIBBED AND FABRICATED USING GRADE 316L STAINLESS REINFORCING STEEL COMPLYING WITH BS 6744 GRADE 500 AND AS 5100.5 CLAUSE 17.4.1.2. STAINLESS STEEL SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH ATS 5310.
- SS3. WIRE USED TO TIE STAINLESS STEEL REINFORCEMENT SHALL BE OF STAINLESS STEEL.
- SS4. STAINLESS REINFORCING STEEL MUST BE SUPPLIED, HANDLED AND STORED SEPARATELY FROM OTHER STEELS.

METALWORK

- MW1. ALL STAIRWAYS, PLATFORMS AND HANDRAILS SHALL BE IN ACCORDANCE WITH AS1657 AND THE PROJECT SPECIFICATION
- MW2. ALL STAIRWAYS, PLATFORMS AND HANDRAILS SHALL BE HOT DIPPED GALVANISED IN ACCORDANCE WITH AS1650.

ABBREVIATIONS

- EQ - EQUAL
- DIA - DIAMETER
- SS - STAINLESS STEEL
- C/C - CENTRE TO CENTRE
- THK - THICK
- CRS - CENTRES

NOT FOR CONSTRUCTION

B	ISSUED FOR TENDER	LN	RF 09.11.23
A	90% DESIGN	LN	RF 24.08.23
Rev	Description	Checked	Approved Date
Author	E.PAZ	Drafting Check	B.SACAYANAN
Designer	J.GALLUP	Design Check	L.NEUMANN

Plot Date: 10 November 2023 - 7:27 AM

Plotted by: Edgardo Paz

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Project No.  
12591211

Client AUSTRALIAN GOVERNMENT  
NATIONAL CAPITAL AUTHORITY

Project SCRIVENER DAM DISSIPATOR  
STRENGTHENING PROJECT

Drawing Title  
GENERAL NOTES

Status PRELIMINARY

Status Code  
S0

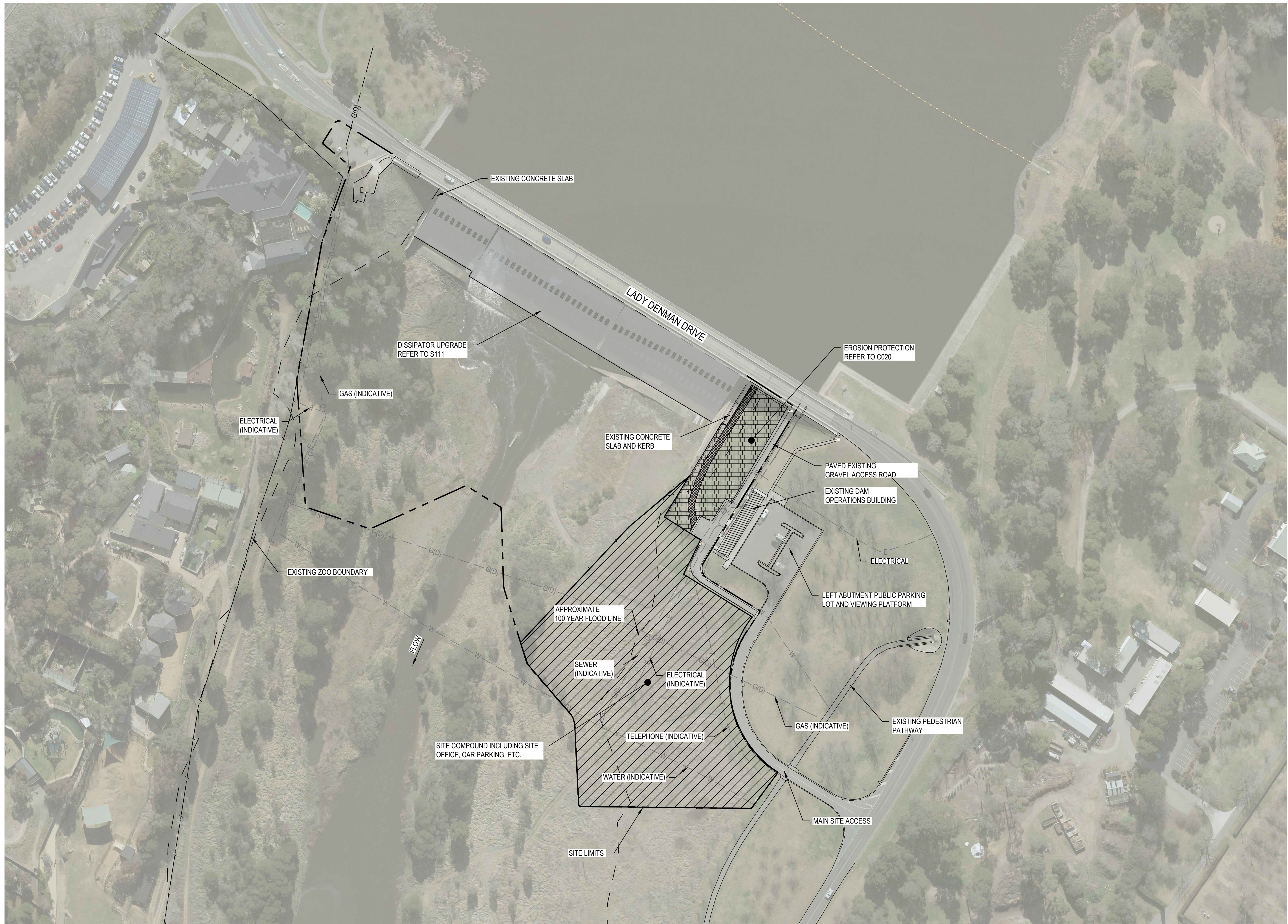
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Drawing No.  
12591211-G002

Size  
A1

Rev  
B





NOTES:

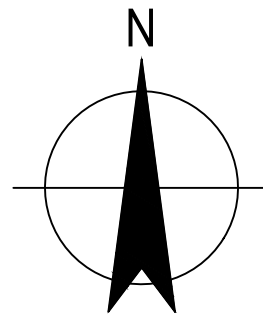
- CONTRACTOR TO CONFIRM UTILITY DEPTH, EXTENTS, AND LOCATIONS PRIOR TO ANY WORK COMMENCING. COORDINATE WITH THE UTILITY OWNER ANY PROTECTION OR RELOCATION REQUIRED TO FACILITATE SITE FACILITIES OR SITE ACCESS.

SITE PLAN LAYOUT  
SCALE 1:1000

NOT FOR CONSTRUCTION

Rev	Description	Checked	Approved	Date
B	ISSUED FOR TENDER	LN	RF	09.11.23
A	90% DESIGN	LN	RF	24.08.23
Author	J.PANTOLA	Drafting Check	B.SACAYANAN	
Designer	J.GALLUP	Design Check	L.NEUMANN	

0 10 20 30 40 50m  
SCALE 1:1000 AT ORIGINAL SIZE



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Project No.  
12591211

Client  
AUSTRALIAN GOVERNMENT  
NATIONAL CAPITAL AUTHORITY  
Project  
SCRIVENER DAM DISSIPATOR  
STRENGTHENING PROJECT

Status  
PRELIMINARY

Status  
Code  
S0

Drawing  
Title  
CIVIL  
SITE PLAN  
GENERAL ARRANGEMENT

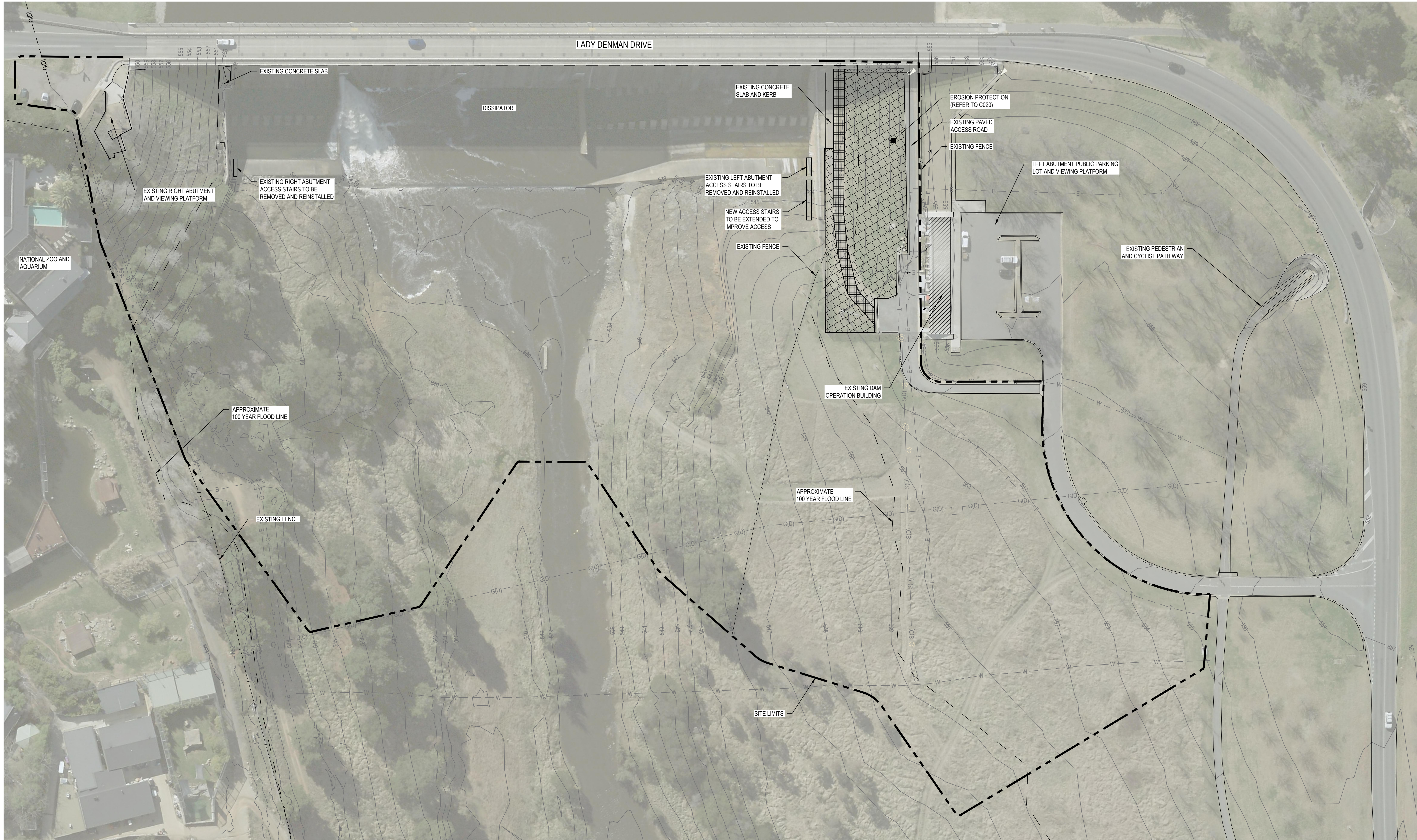
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Drawing No.  
12591211-C005

Size  
A1

Rev  
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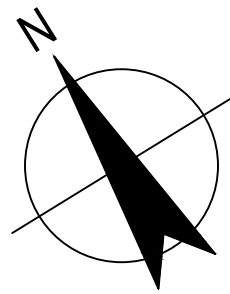
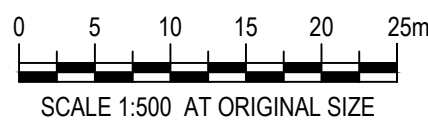




CONSTRUCTION TEMPORARY WORKS PLAN

SCALE 1:500

B	ISSUED FOR TENDER	LN	RF	09.11.23
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Author	J.PANTOLA	Drafting Check	B.SACAYANAN	
Designer	J.GALLUP	Design Check	L.NEUMANN	



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NATIONAL CAPITAL AUTHORITY  
Project SCRIVENER DAM DISSIPATOR  
STRENGTHENING PROJECT  
Status PRELIMINARY

Status  
Code S0

Drawing Title CIVIL  
ABUTMENT EROSION  
PROTECTON  
GENERAL ARRANGEMENT

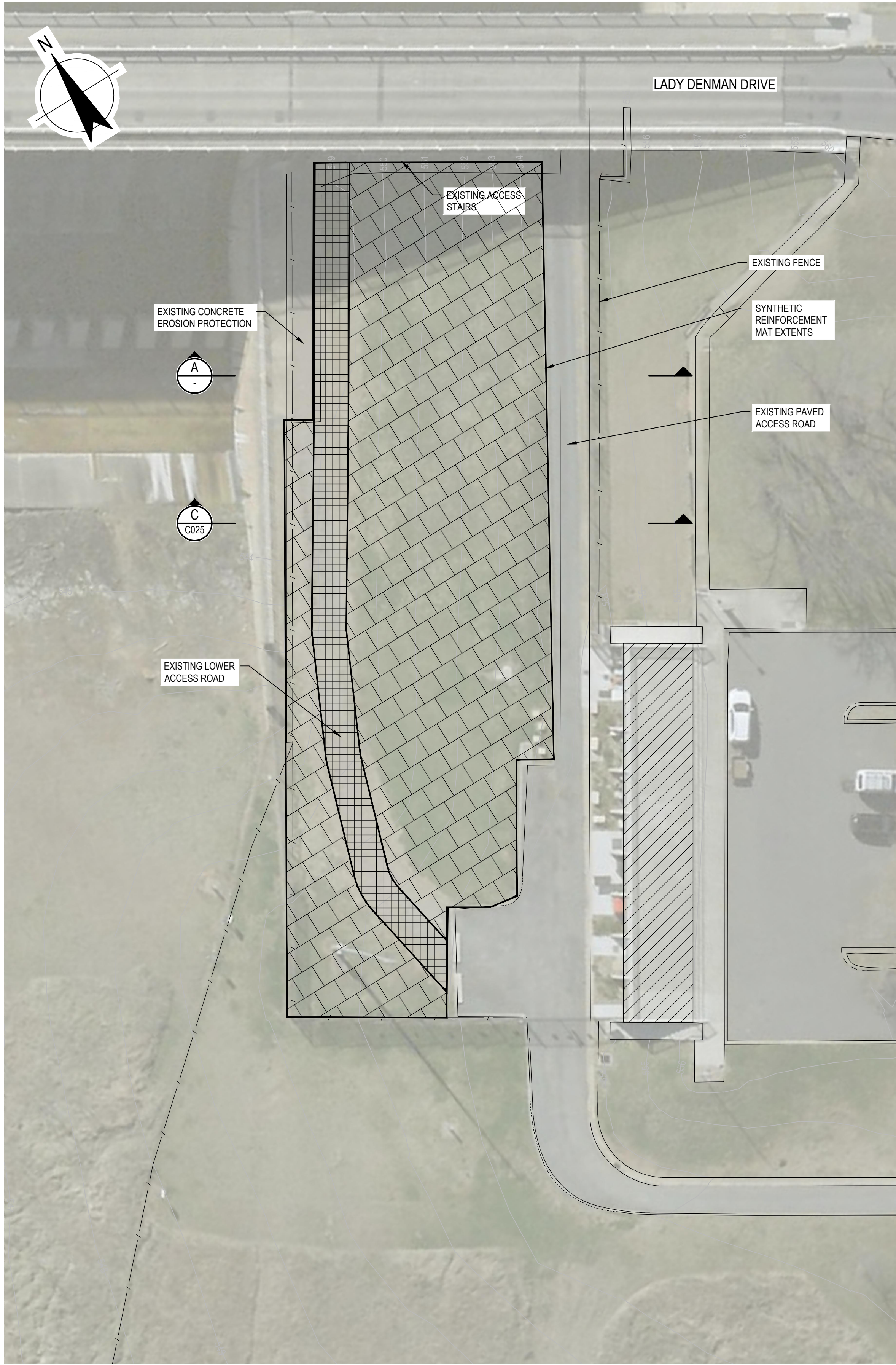
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Drawing No.  
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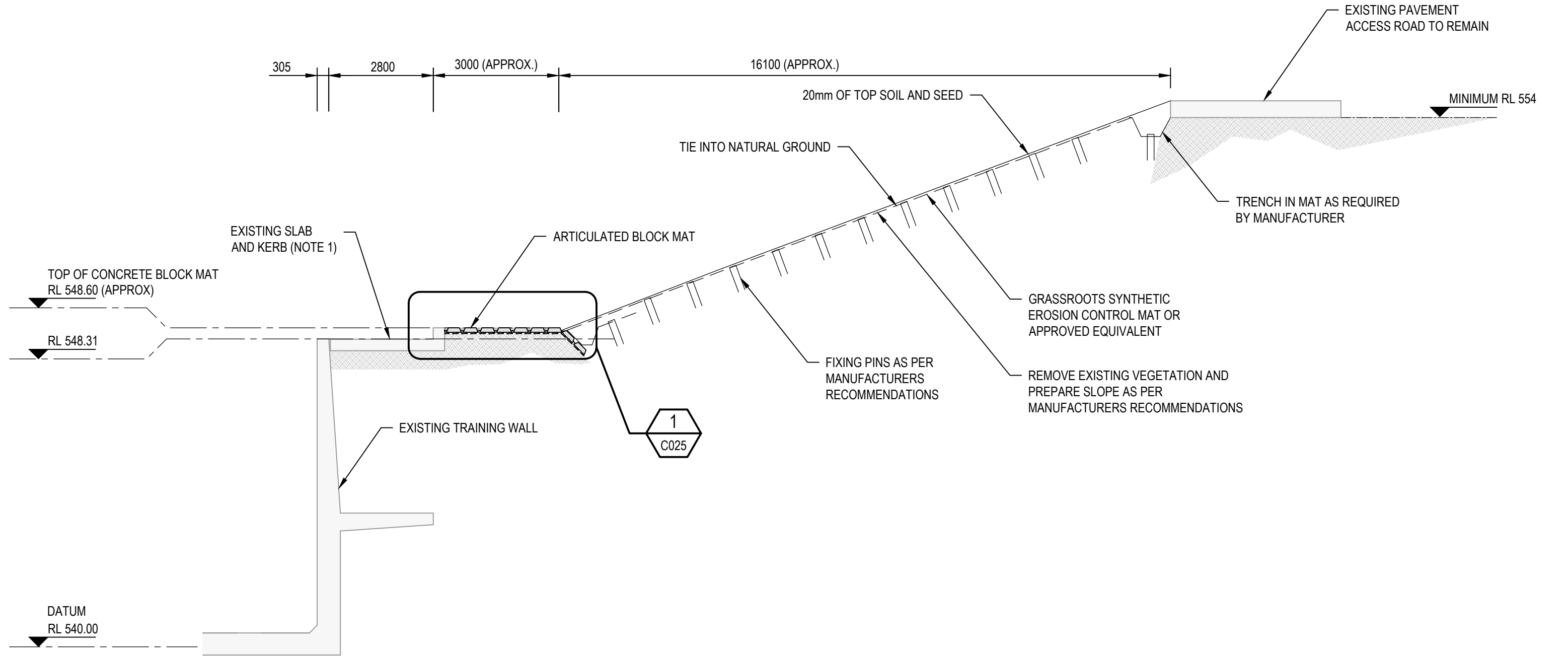
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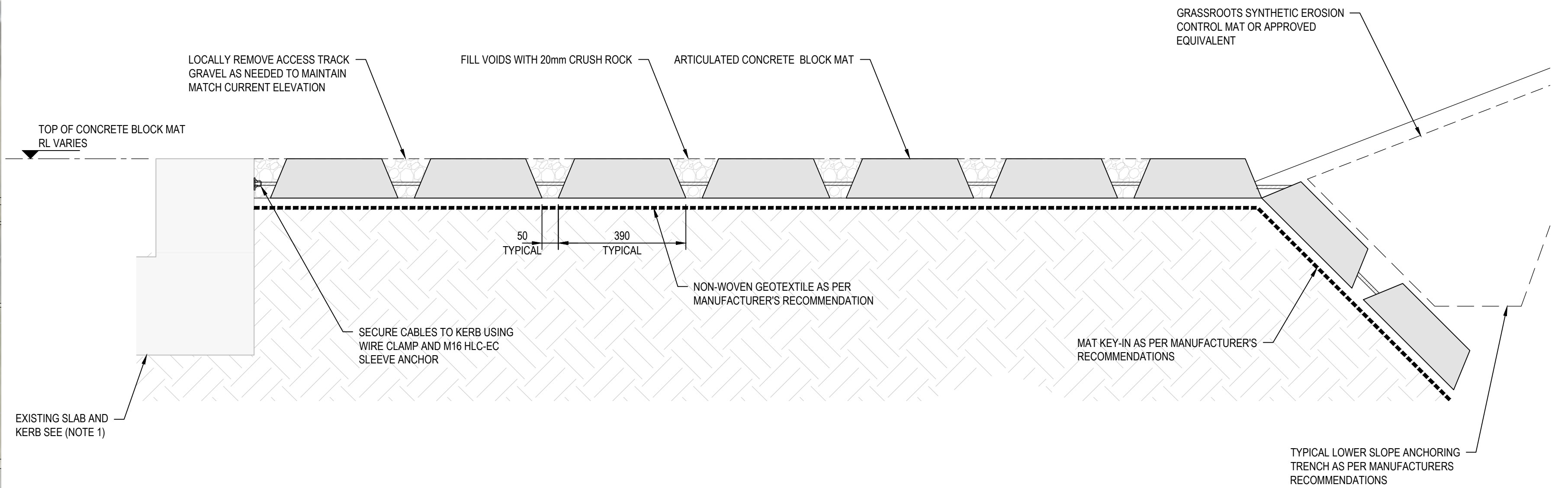


LEFT ABUTMENT EROSION PROTECTION PLAN

SCALE 1:250



A SECTION  
SCALE 1:100



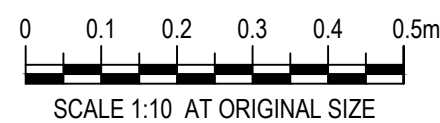
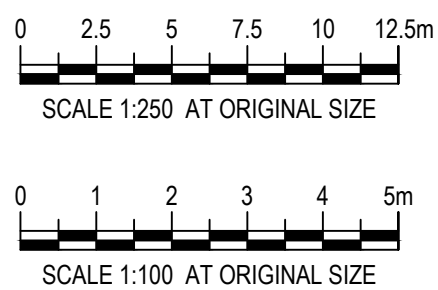
1 DETAIL  
SCALE 1:10

NOTES:

- EXISTING CONCRETE SLAB AND KERB ARE TO REMAIN UNDISTURBED. ANY DAMAGE FROM THE WORKS SHOULD BE REPAIRED.

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Project No.  
12591211

Client  
AUSTRALIAN GOVERNMENT  
NATIONAL CAPITAL AUTHORITY  
Project  
SCRIVENER DAM DISSIPATOR  
STRENGTHENING PROJECT

Status  
PRELIMINARY

Status  
Code  
S0

Drawing  
Title  
CIVIL  
ABUTMENT EROSION  
PROTECTION  
LEFT ABUTMENT

Trim No.  
543675

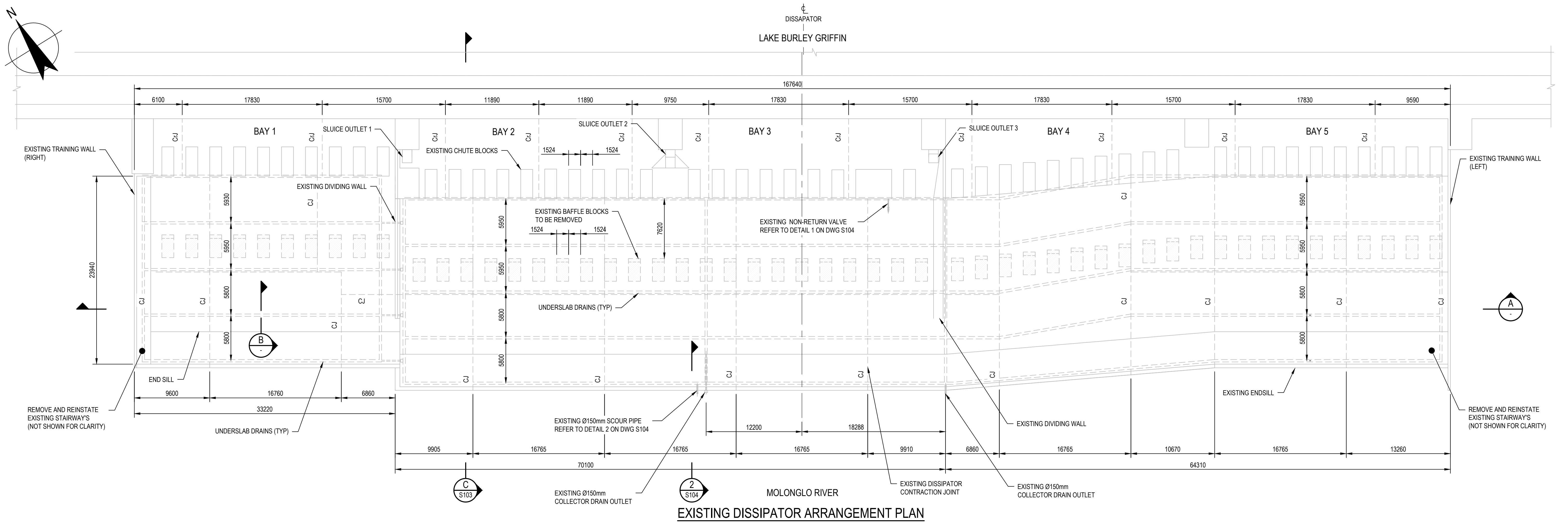
Drawing No.  
12591211-C020

Size  
A1  
Rev  
B



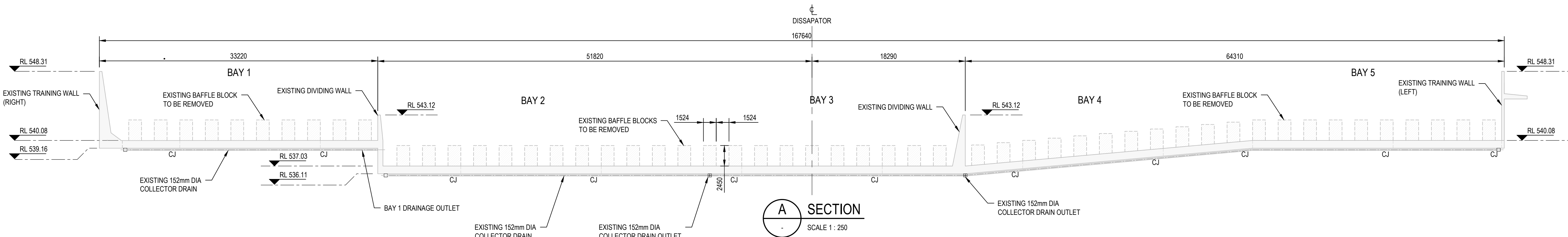






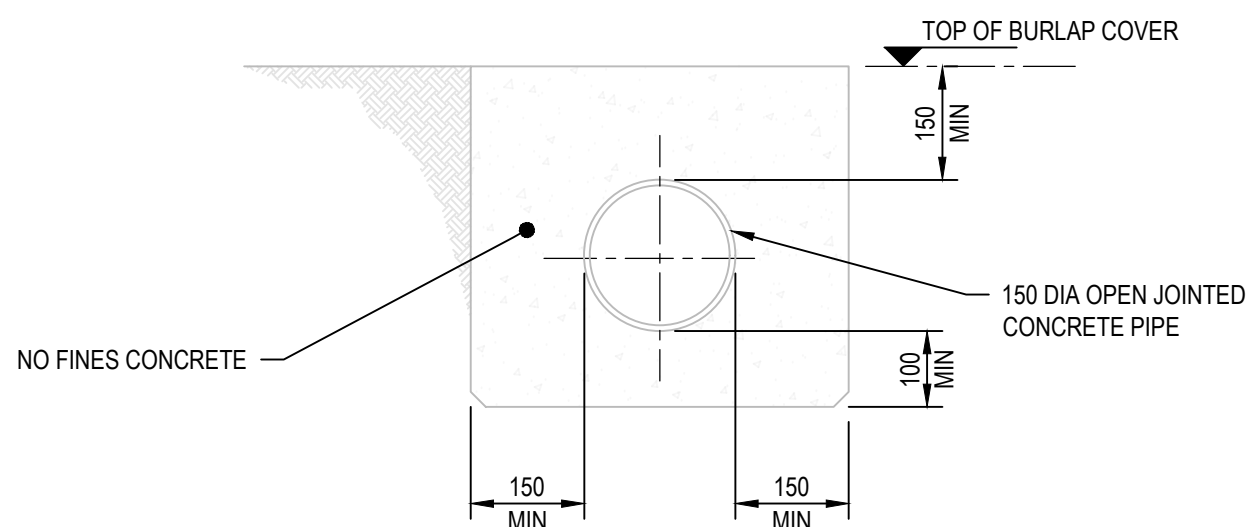
EXISTING DISSIPATOR ARRANGEMENT PLAN

SCALE 1: 250



SECTION A-A

SCALE 1: 250



UNDERSLAB DRAINAGE

SECTION B-B

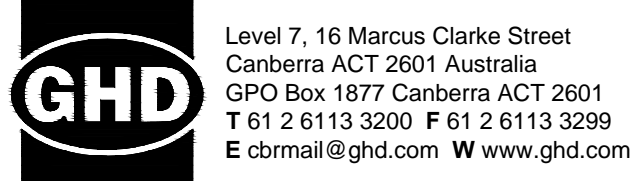
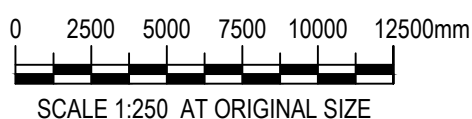
SCALE 1: 10

NOTE

- CJ DENOTES CONSTRUCTION JOINT
- Cd DENOTES CONTRACTION JOINTS
- DIMENSIONS OF EXISTING STRUCTURE ARE BASED ON THE WAE DRAWINGS. CONTRACTOR TO CONFIRM DIMENSIONS PRIOR TO WORK

NOT FOR CONSTRUCTION

Rev	Description	Checked	Approved	Date
B	ISSUED FOR TENDER	LW	RF	09.11.23
A	90% DESIGN	LW	RF	24.08.23
Author	E.PAZ	Drafting Check	B.SACAYANAN	
Designer	J.GALLUP	Design Check	L.NEUMANN	



Project No.  
12591211

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Project  
SCRIVENER DAM DISSIPATOR  
STRENGTHENING PROJECT

Status  
PRELIMINARY

Drawing Title  
STRUCTURAL  
EXISTING DISSIPATOR  
ARRANGEMENT PLAN AND SECTION

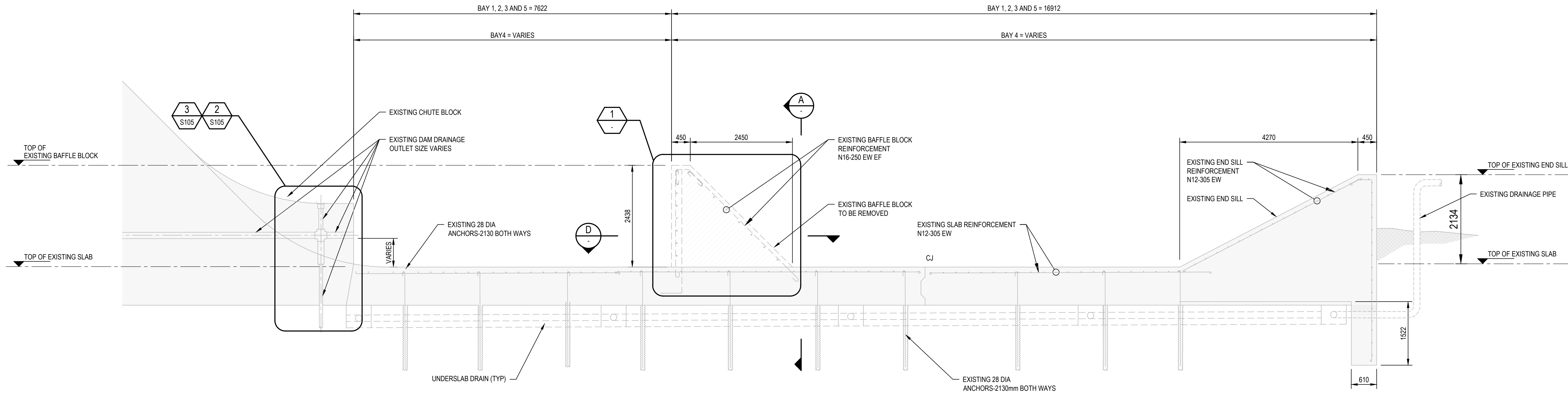
Trim No.  
536458

Drawing No.  
12591211-S102

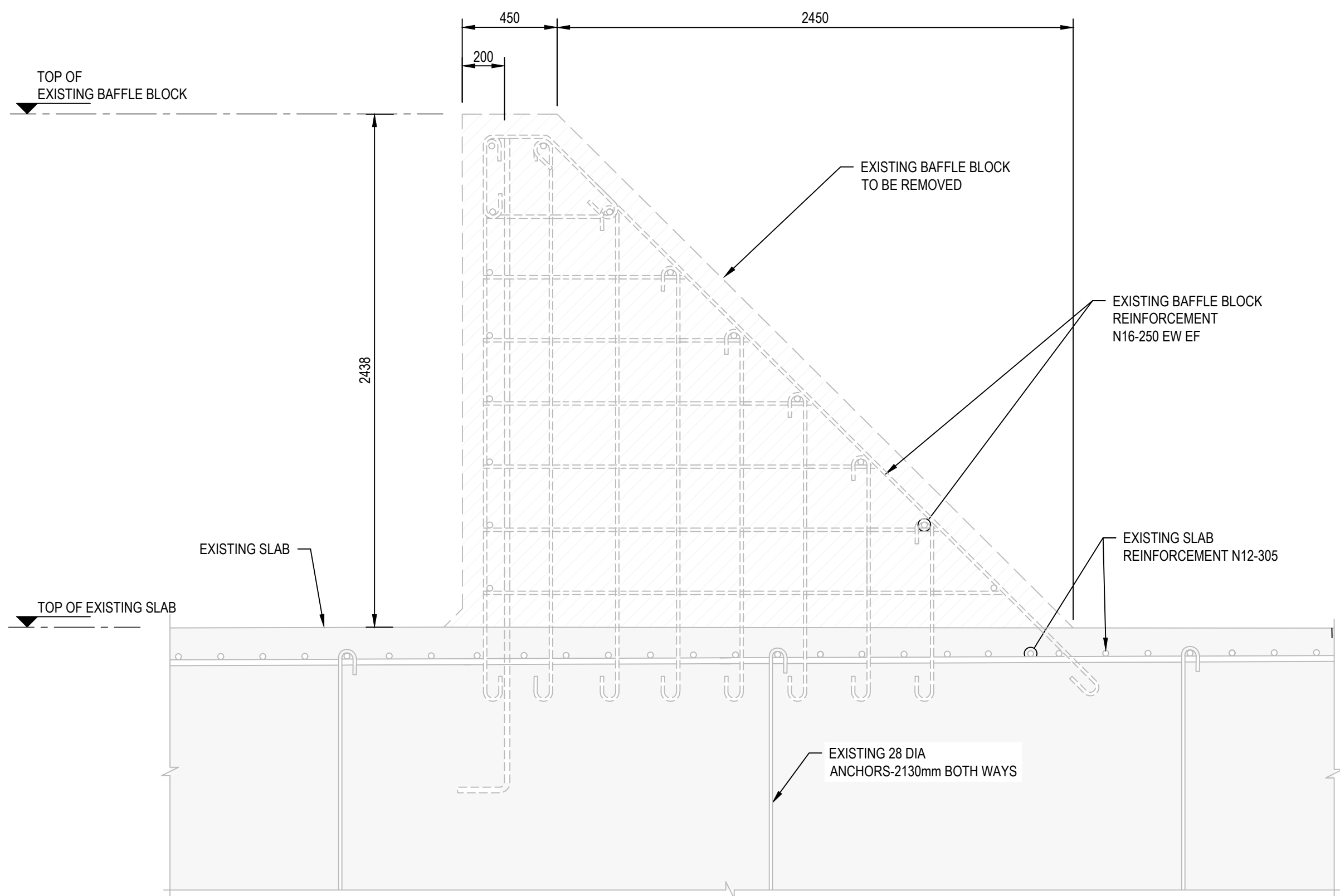
Size  
A1

Rev  
B

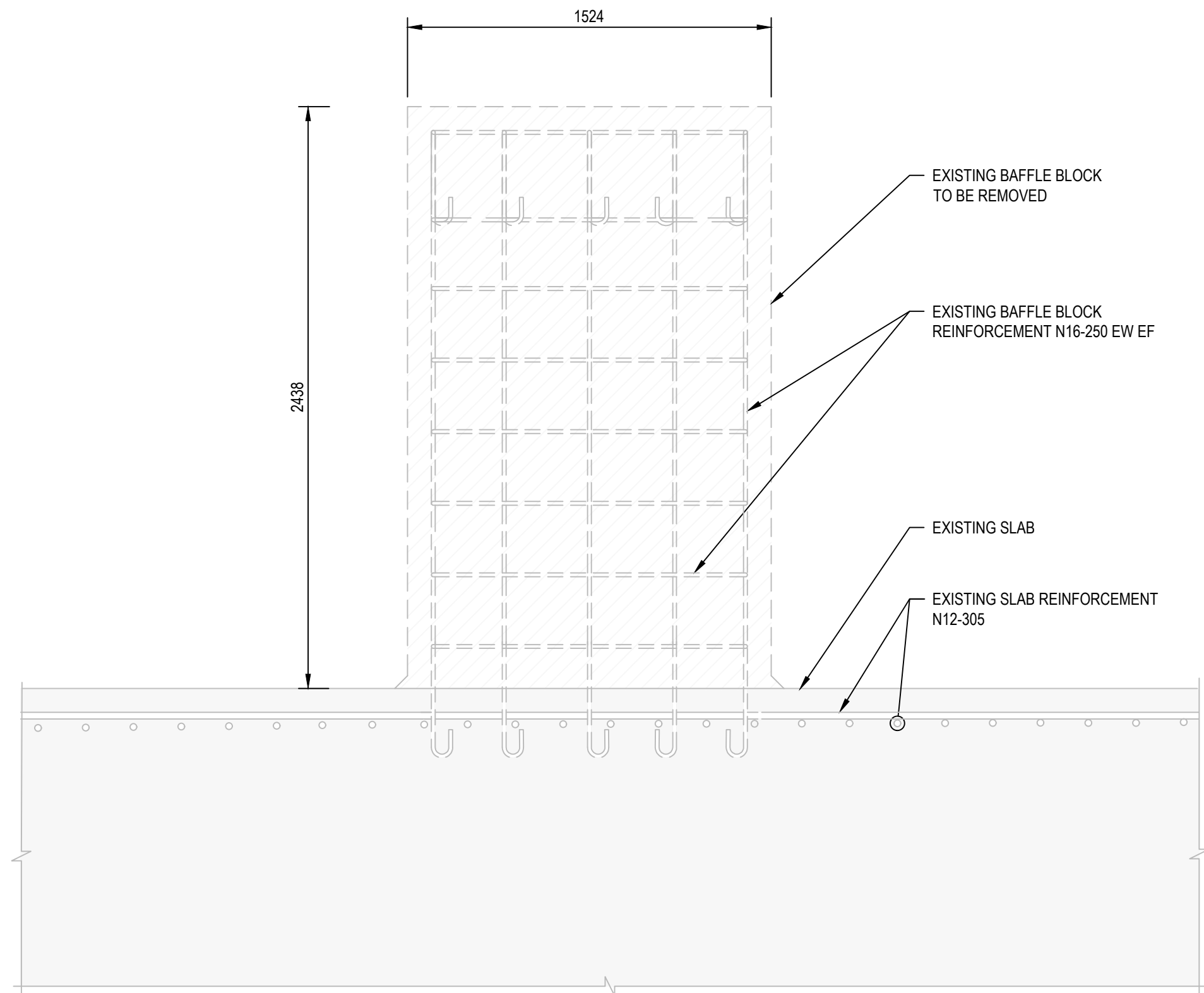




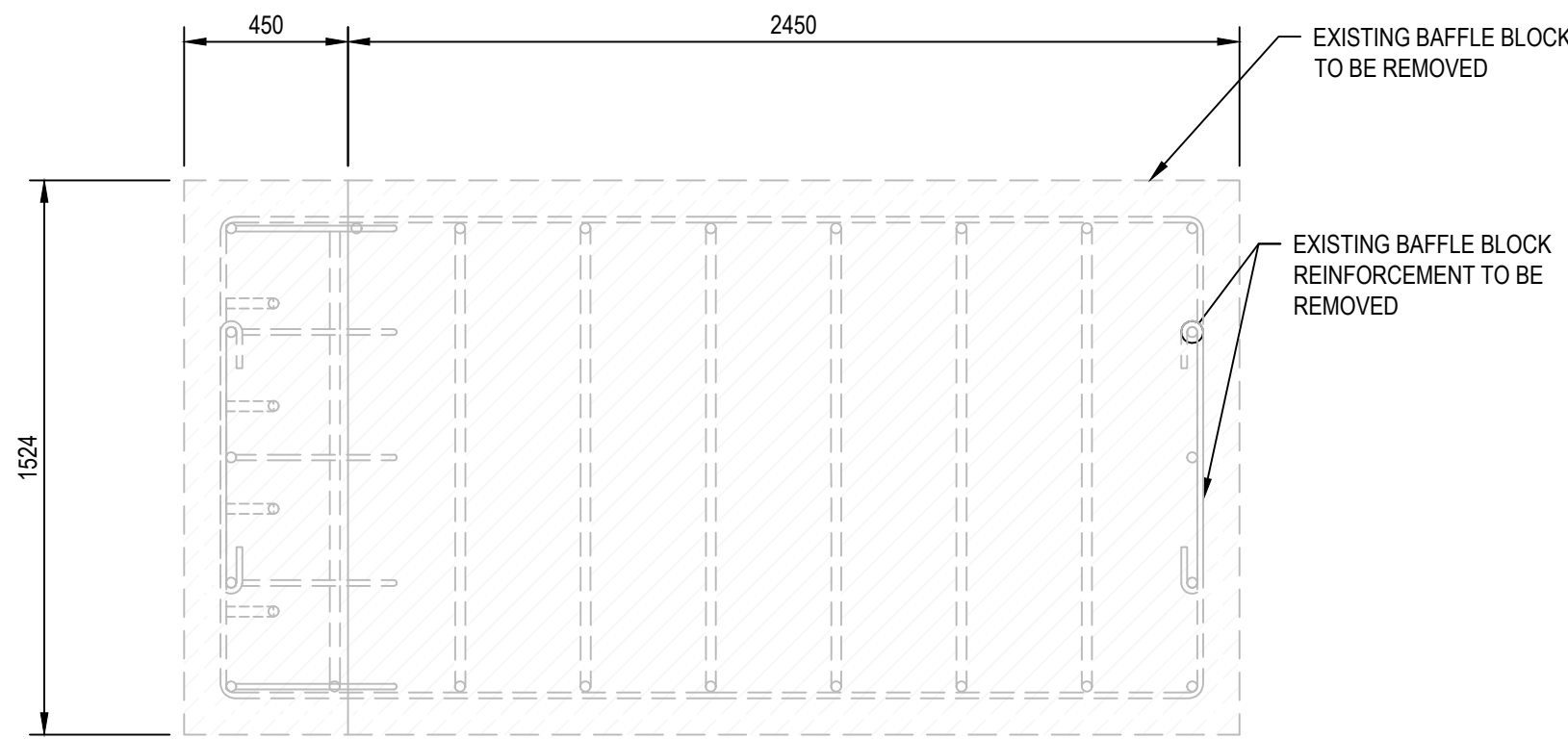
**C SECTION**  
S102 SCALE 1 : 50



**1 DETAIL**  
SCALE 1 : 20



**A SECTION**  
SCALE 1 : 20



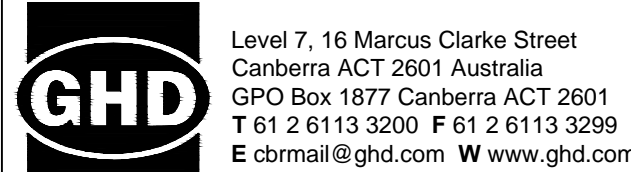
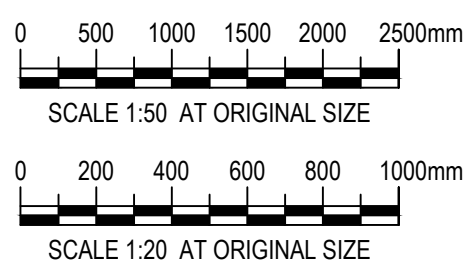
**D SECTION**  
SCALE 1 : 20

**NOTE**

1. CJ DENOTES CONSTRUCTION JOINT
2. Cj DENOTES CONTRACTION JOINTS
3. DIMENSIONS OF EXISTING STRUCTURE ARE BASED ON THE WAE DRAWINGS. CONTRACTOR TO CONFIRM DIMENSIONS PRIOR TO WORK

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B	ISSUED FOR TENDER	LN	RF	09.11.23
A	90% DESIGN	LN	RF	24.08.23
Author	L.ESGUERRA	Drafting Check	B.SACAYANAN	
Designer	J.GALLUP	Design Check	L.NEUMANN	



Project No.  
12591211

Client  
**AUSTRALIAN GOVERNMENT  
NATIONAL CAPITAL AUTHORITY**

Project  
**SCRIVENER DAM DISSIPATOR  
STRENGTHENING PROJECT**

Status  
**PRELIMINARY**

Drawing Title  
**STRUCTURAL  
EXISTING DISSIPATOR  
SECTION**

Status Code  
**S0**

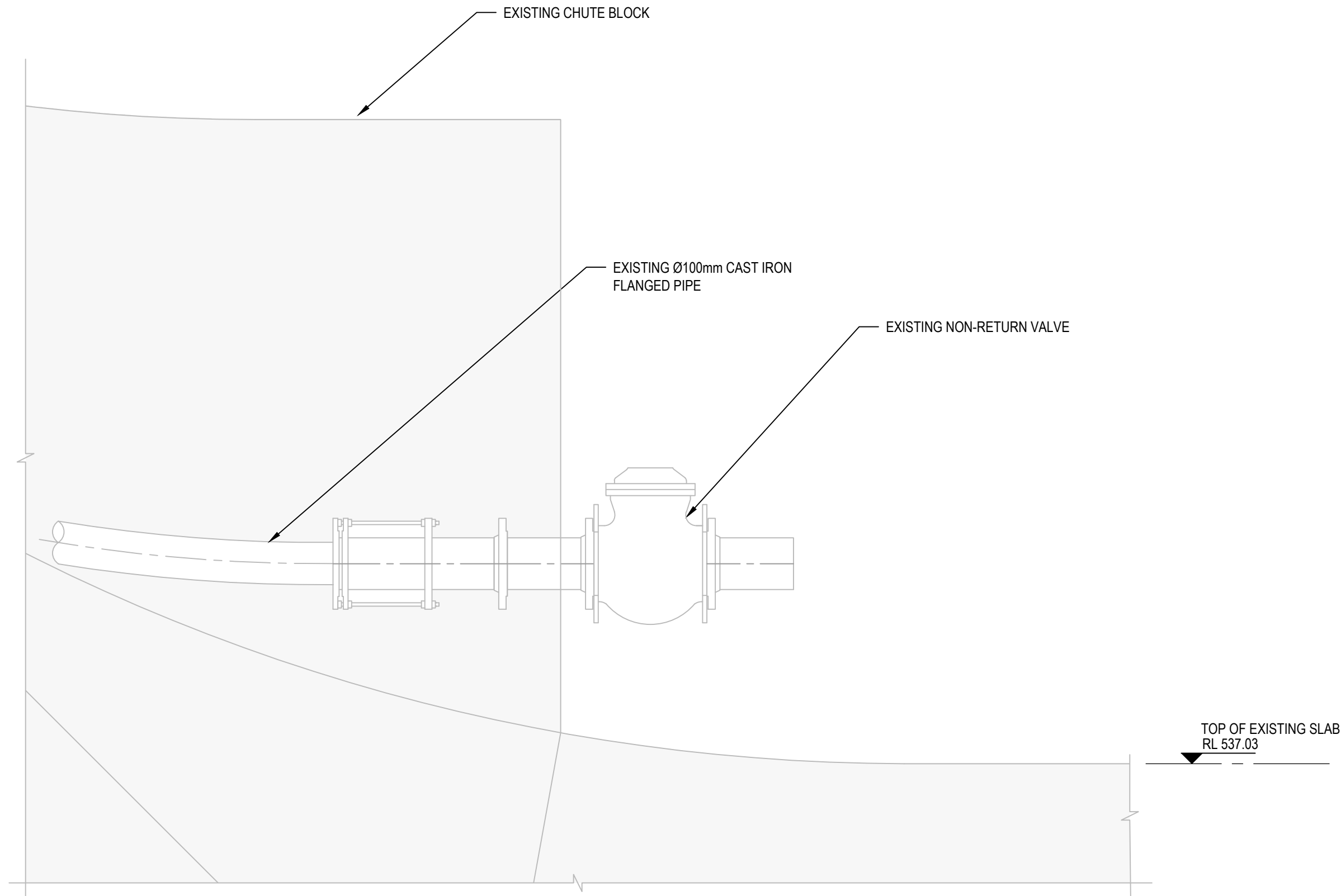
Trim No.  
**536459**

Drawing No.  
**12591211-S103**

Size  
**A1**

Rev  
**B**





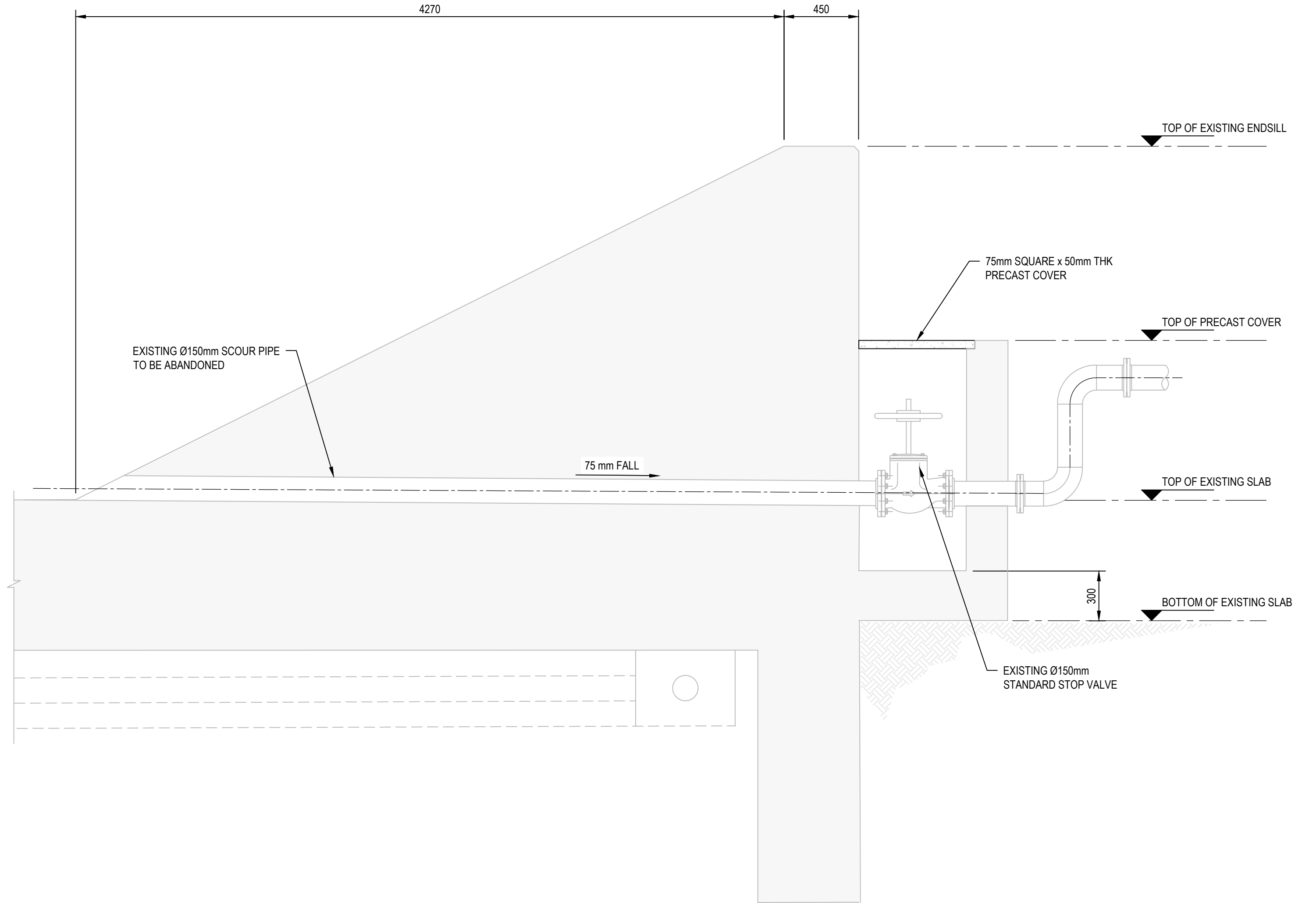
**BAY 3 -EXISTING DRAINAGE NON-RETURN VALVE**  
SCALE : 1:10



**1 DETAIL**  
SCALE 1 : 20

**NOTE**

1. CJ DENOTES CONSTRUCTION JOINT
2. C/d DENOTES CONTRACTION JOINTS
3. DIMENSIONS OF EXISTING STRUCTURE ARE BASED ON THE WAE DRAWINGS. CONTRACTOR TO CONFIRM DIMENSIONS PRIOR TO WORK

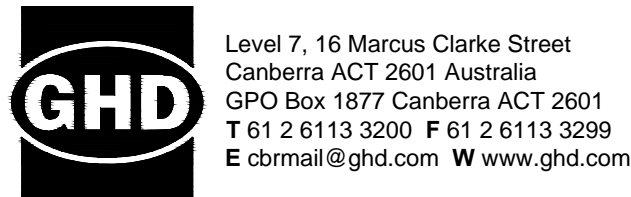
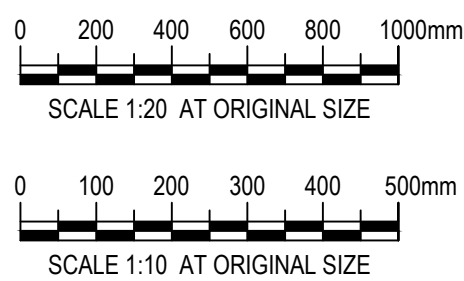


**BAY 3 - EXISTING SCOUR PIPE**

**2 DETAIL**  
S102 SCALE 1 : 20

NOT FOR CONSTRUCTION

Rev	Description	Checked	Approved	Date
B	ISSUED FOR TENDER	LN	RF	09.11.23
A	90% DESIGN	LN	RF	24.08.23
Author	E.PAZ	Design Check	B.SACAYANAN	
Designer	J.GALLUP	Design Check	L.NEUMANN	



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Project  
**SCRIVENER DAM DISSIPATOR  
STRENGTHENING PROJECT**

Status  
**PRELIMINARY**

Status  
Code **S0**

Drawing  
Title  
**STRUCTURAL  
EXISTING DISSIPATOR  
BAY 3 DETAILS**

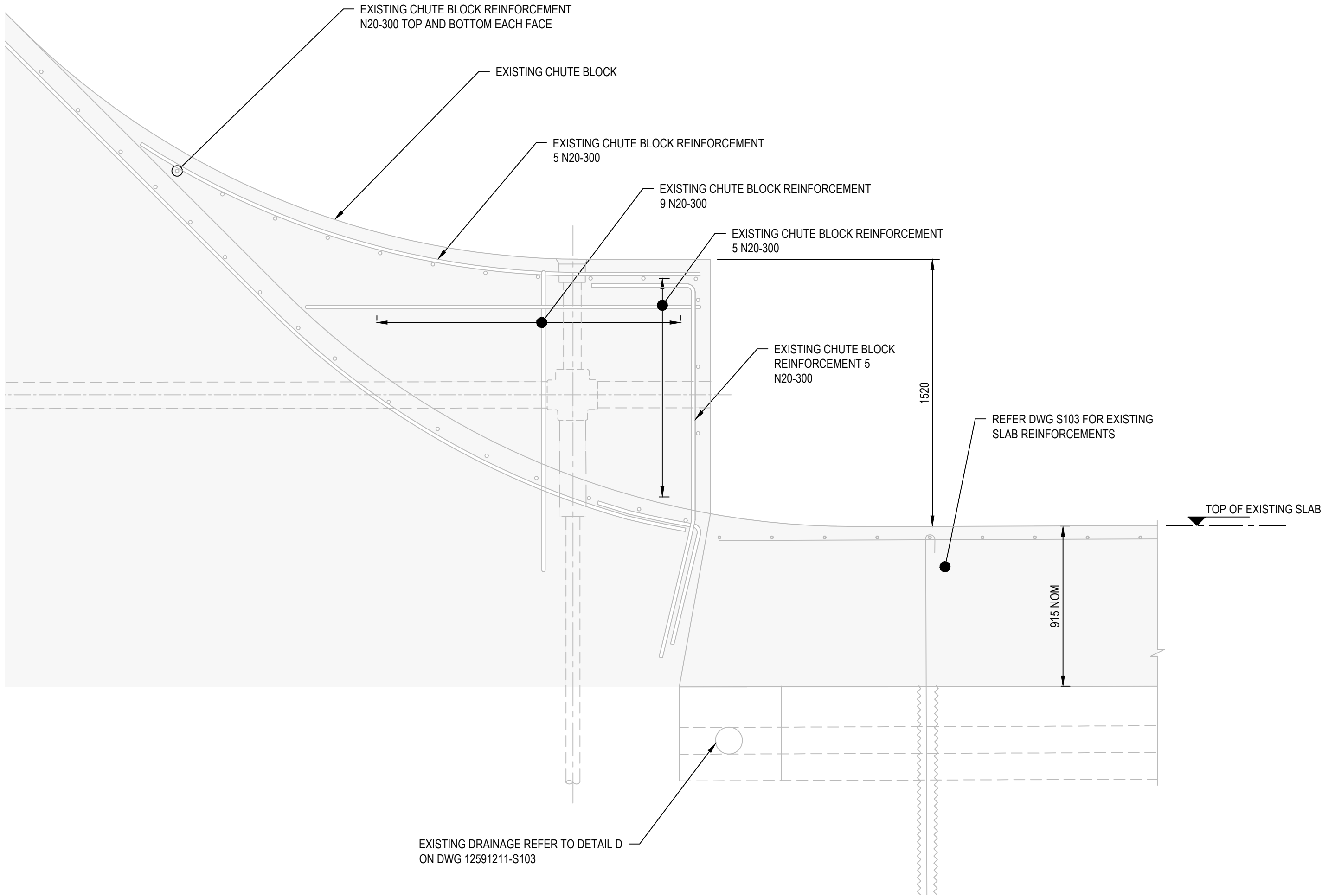
Trim No.  
**536460**

Drawing No.  
**12591211-S104**

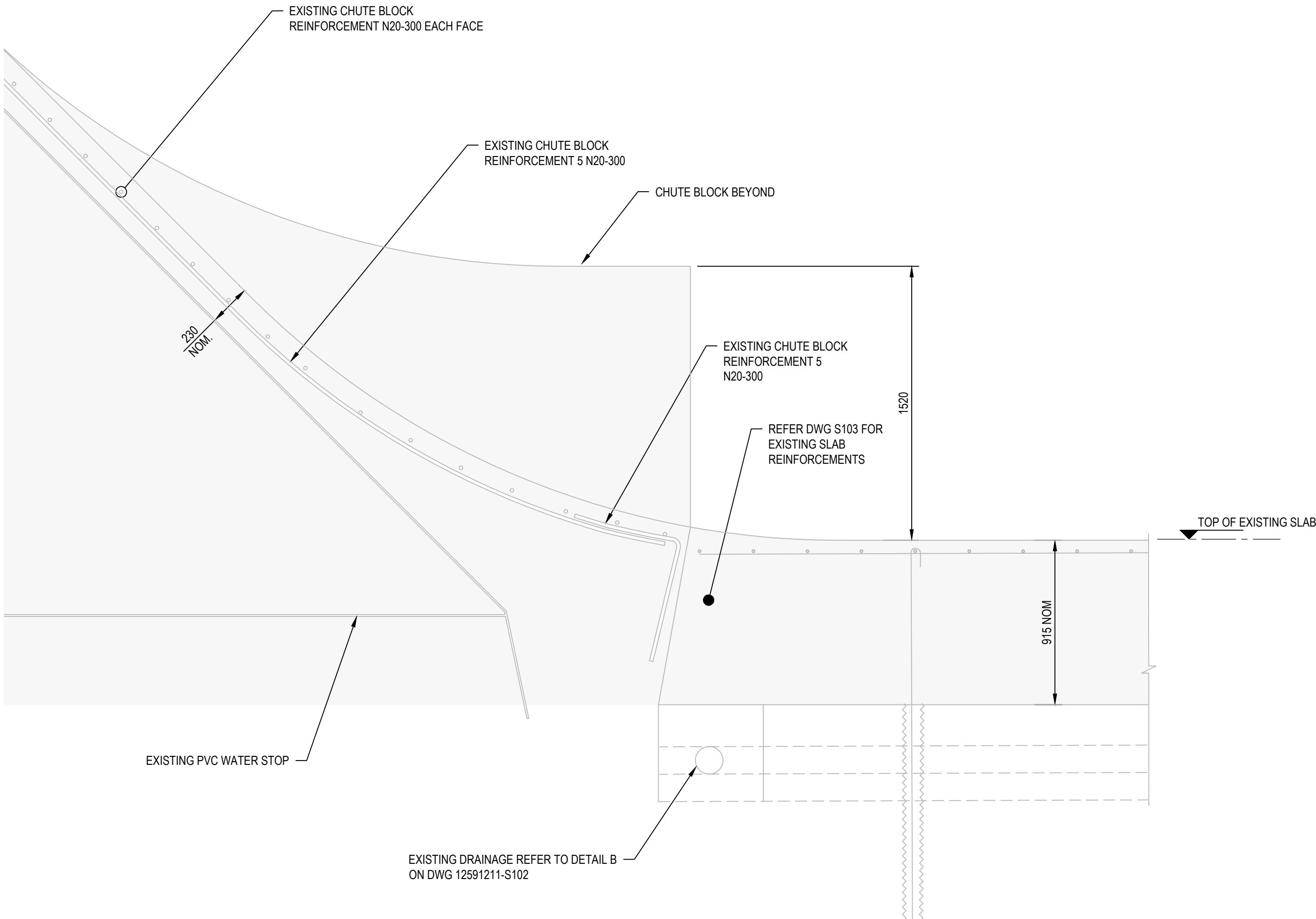
Size  
**A1**

Rev  
**B**





**2** DETAIL  
S103 SCALE 1 : 20



**3** DETAIL  
S103 SCALE 1 : 20

**NOTE**

1. CJ DENOTES CONSTRUCTION JOINT
2. Cj DENOTES CONTRACTION JOINTS
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Author	E.PAZ	Drafting Check	B.SACAYANAN	
Designer	J.GALLUP	Design Check	L.NEUMANN	



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Project  
**SCRIVENER DAM DISSIPATOR  
STRENGTHENING PROJECT**

Status  
**PRELIMINARY**

Status  
Code

**S0**

Drawing  
Title  
**STRUCTURAL  
EXISTING CHUTE BLOCK  
REINFORCEMENT DETAILS**

Trim No.  
**543678**

Drawing No.  
**12591211-S105**

Size  
**A1**

Rev  
**B**

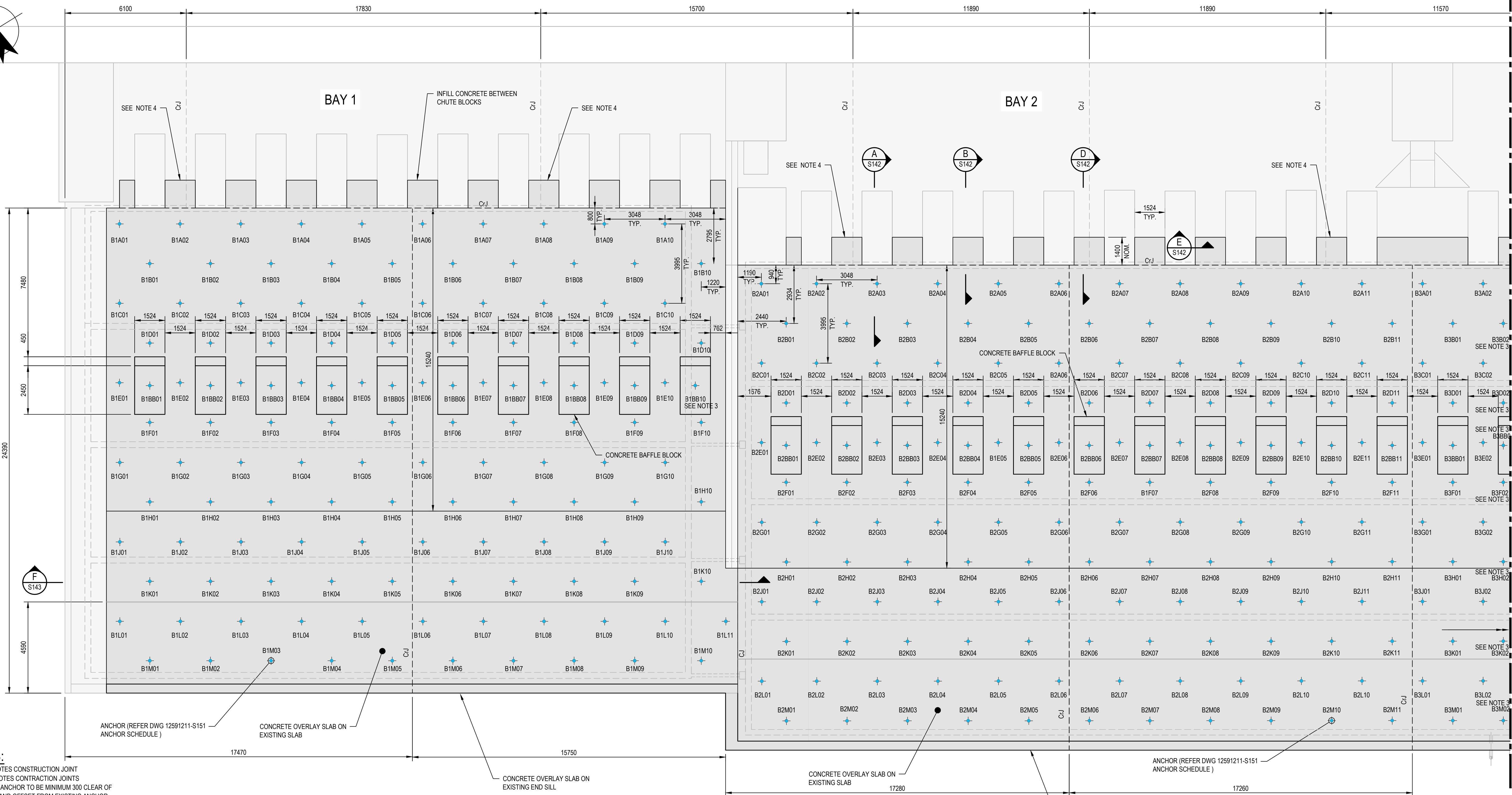
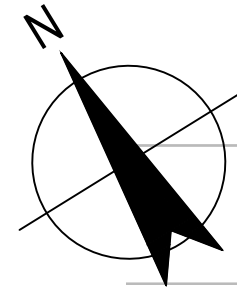












- NOTES:**
- CJ DENOTES CONSTRUCTION JOINT
  - CJ DENOTES CONTRACTION JOINTS
  - LOCATE ANCHOR TO BE MINIMUM 300 CLEAR OF DRAINS AND OFFSET FROM EXISTING ANCHOR
  - REFER TO SECTION D ON S142 FOR INFILL CONCRETE AT MONOLITH JOINTS

**LEGEND:**

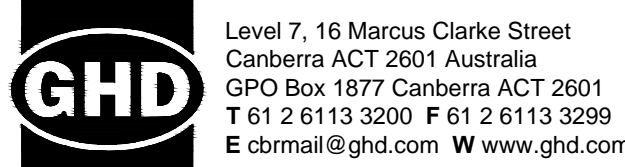
BR-H 500/550, 57.5mm DIA. DOUBLE CORROSION PROTECTION ANCHORS

ROW  
BAY  
COLUMN  
BAFFLE BLOCK

**DISSIPATOR BAY 1 AND 2 PLAN**  
SCALE 1: 100

NOT FOR CONSTRUCTION

Rev	Description	Checked	Approved	Date
B	ISSUED FOR TENDER	LN	RF	09.11.23
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Author	E.PAZ	Drafting Check	B.SACAYANAN	
Designer	J.GALLUP	Design Check	L.NEUMANN	



Project No.  
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Client  
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Project  
SCRIVENER DAM DISSIPATOR  
STRENGTHENING PROJECT

Status  
PRELIMINARY

Drawing Title  
STRUCTURAL  
DISSIPATOR BAY 1 AND 2  
PLAN

Status Code  
S0

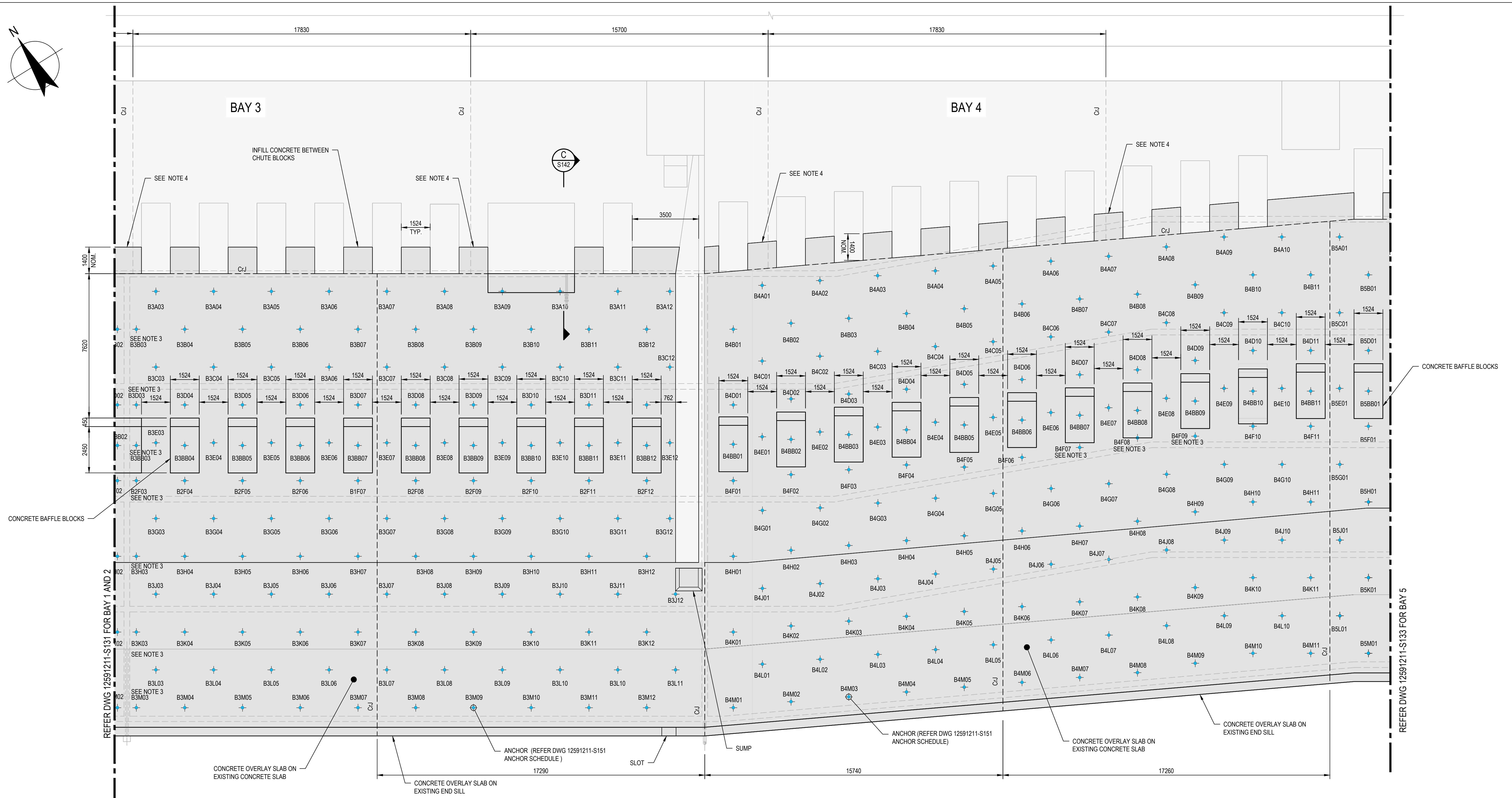
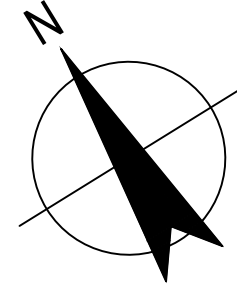
Trim No.  
536463

Drawing No.  
12591211-S131

Size  
A1

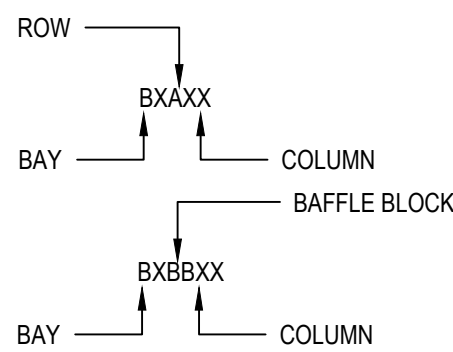
Rev  
B





LEGEND:

- BR-H 500/550, 57.5mm DIA DOUBLE CORROSION PROTECTION ANCHORS



NOTES:

1. CJ DENOTES CONSTRUCTION JOINT
2. CrJ DENOTES CONTRACTION JOINTS
3. LOCATE ANCHOR TO BE MINIMUM 300 CLEAR OF DRAINS AND OFFSET FROM EXISTING ANCHORS
4. REFER TO SECTION D ON S142 FOR INFILL CONCRETE AT MONOLITH JOINTS

### DISSIPATOR BAY 3 AND 4 PLAN

SCALE 1: 100

[illegible]

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Project No.  
12591211

Client AUSTRALIAN GOVERNMENT  
NATIONAL CAPITAL AUTHORITY

Project SCRIVENER DAM DISSIPATOR  
STRENGTHENING PROJECT

Status	PRELIMINARY
--------	-------------

Drawing  
Title

STRUCTURAL  
DISSIPATOR BAY 3 AND 4  
PLAN

Trim No.  
536464

Drawing No.  
12591211-S132

A1

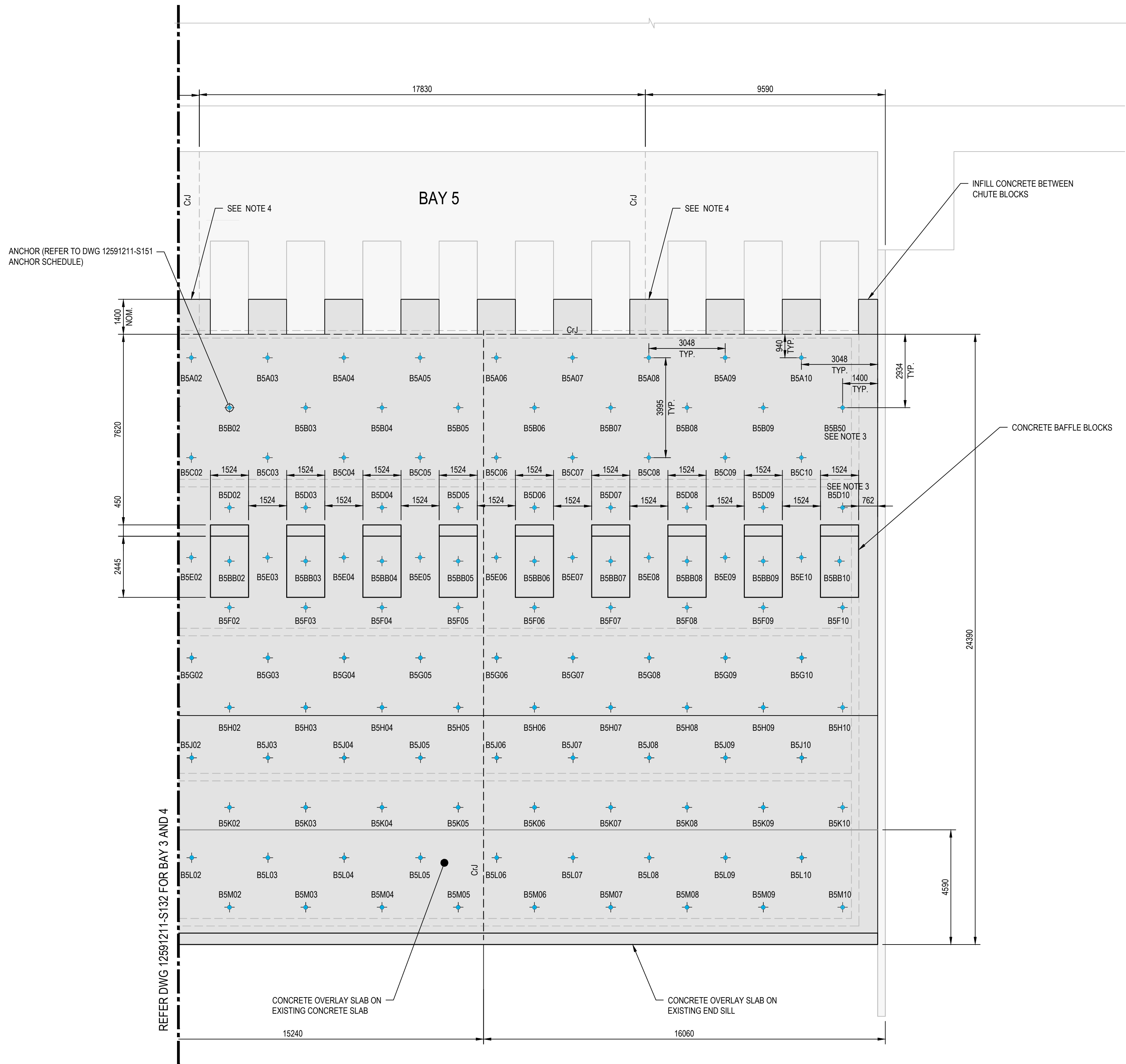
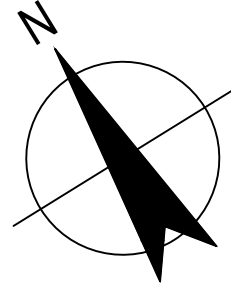
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Plot Date: 8 November 2023 - 8:41 AM

Plotted by: Edgardo Paz

File Name: \\ghdnet\ghd\AU\Melbourne\Projects\31\12591211\CADD\Drawings\12591211-S132.dwg





#### NOTES:

1. CJ DENOTES CONSTRUCTION JOINT
2. CrJ DENOTES CONTRACTION JOINTS
3. LOCATE ANCHOR TO BE MINIMUM 300 CLEAR OF DRAINS AND OFFSET FROM EXISTING ANCHOR
4. REFER TO SECTION D ON S142 FOR INFILL CONCRETE AT MONOLITH JOINTS

#### LEGEND:

BR-H 500/550, 57.5mm DIA. DOUBLE CORROSION PROTECTION ANCHORS

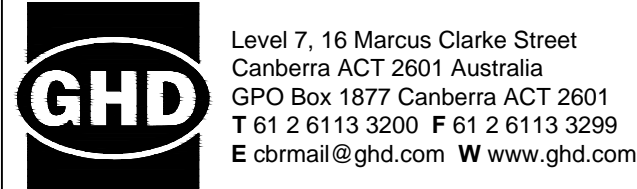
ROW  
BAY  
COLUMN  
BAFFLE BLOCK  
BAY  
COLUMN

#### DISSIPATOR BAY 5 PLAN

SCALE 1:100

NOT FOR CONSTRUCTION

Rev	Description	Checked	Approved	Date
B	ISSUED FOR TENDER	LN	RF	09.11.23
A	90% DESIGN	LN	RF	24.08.23
Author	E.PAZ	Drafting Check	B.SACAYANAN	
Designer	J.GALLUP	Design Check	L.NEUMANN	



Project No.  
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Client  
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NATIONAL CAPITAL AUTHORITY  
Project  
SCRIVENER DAM DISSIPATOR  
STRENGTHENING PROJECT

Status  
PRELIMINARY

Drawing Title  
STRUCTURAL  
DISSIPATOR BAY 5  
PLAN

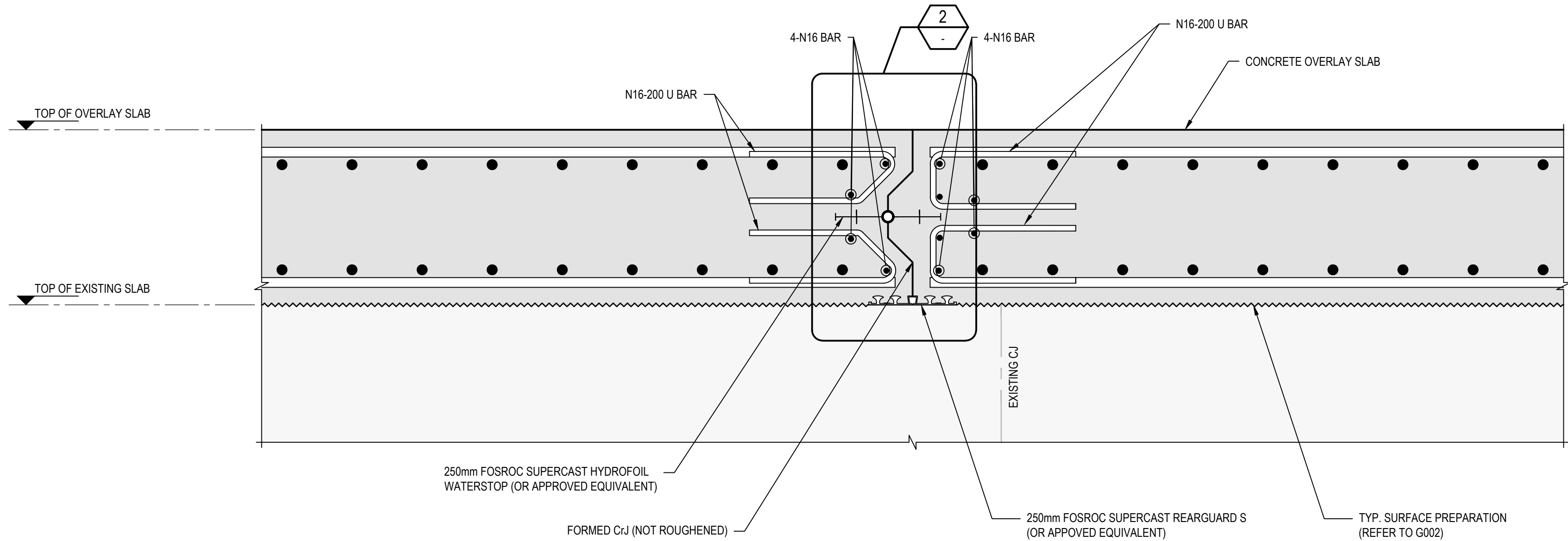
Trim No.  
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Drawing No.  
12591211-S133

Size  
A1

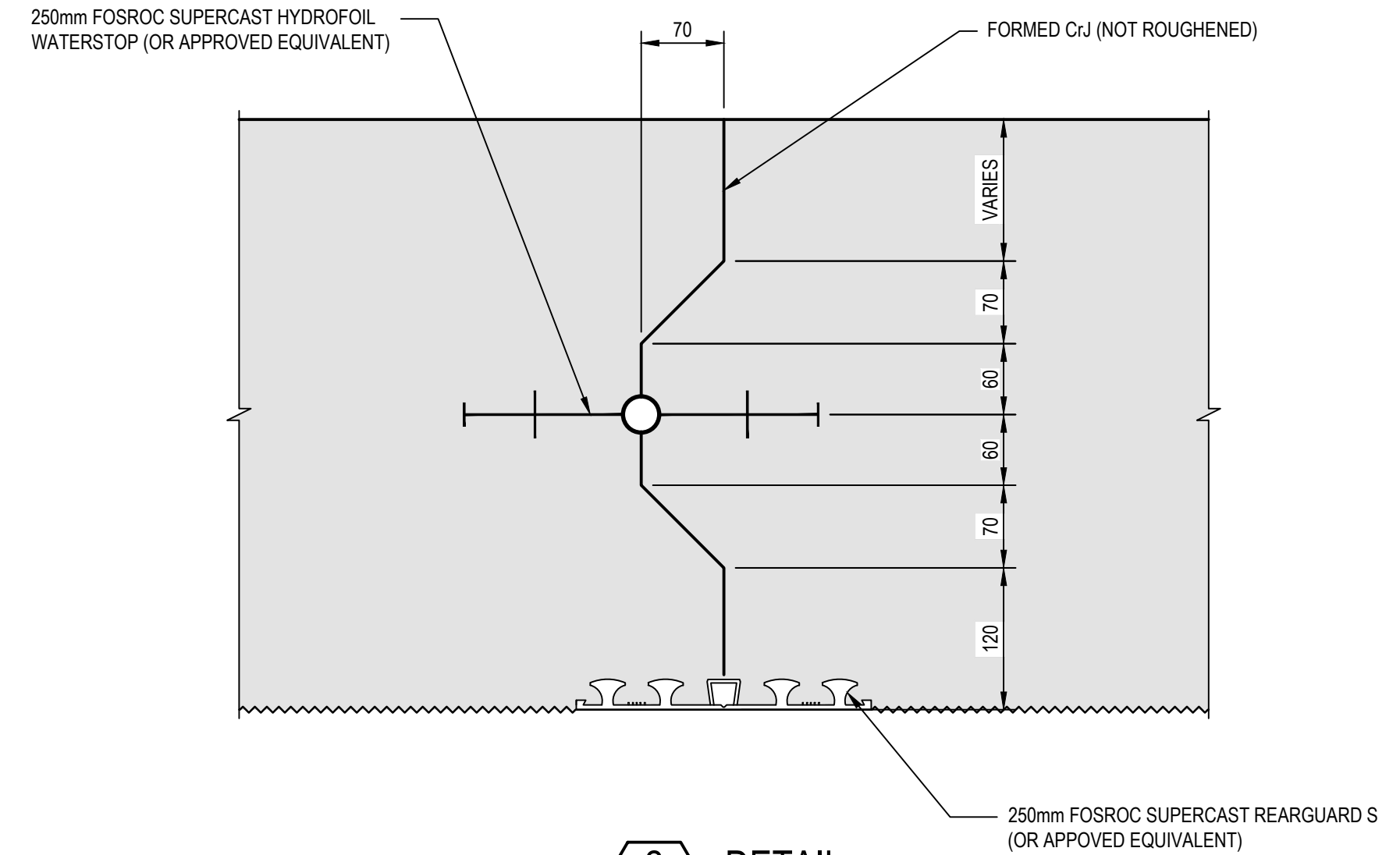
Rev  
B





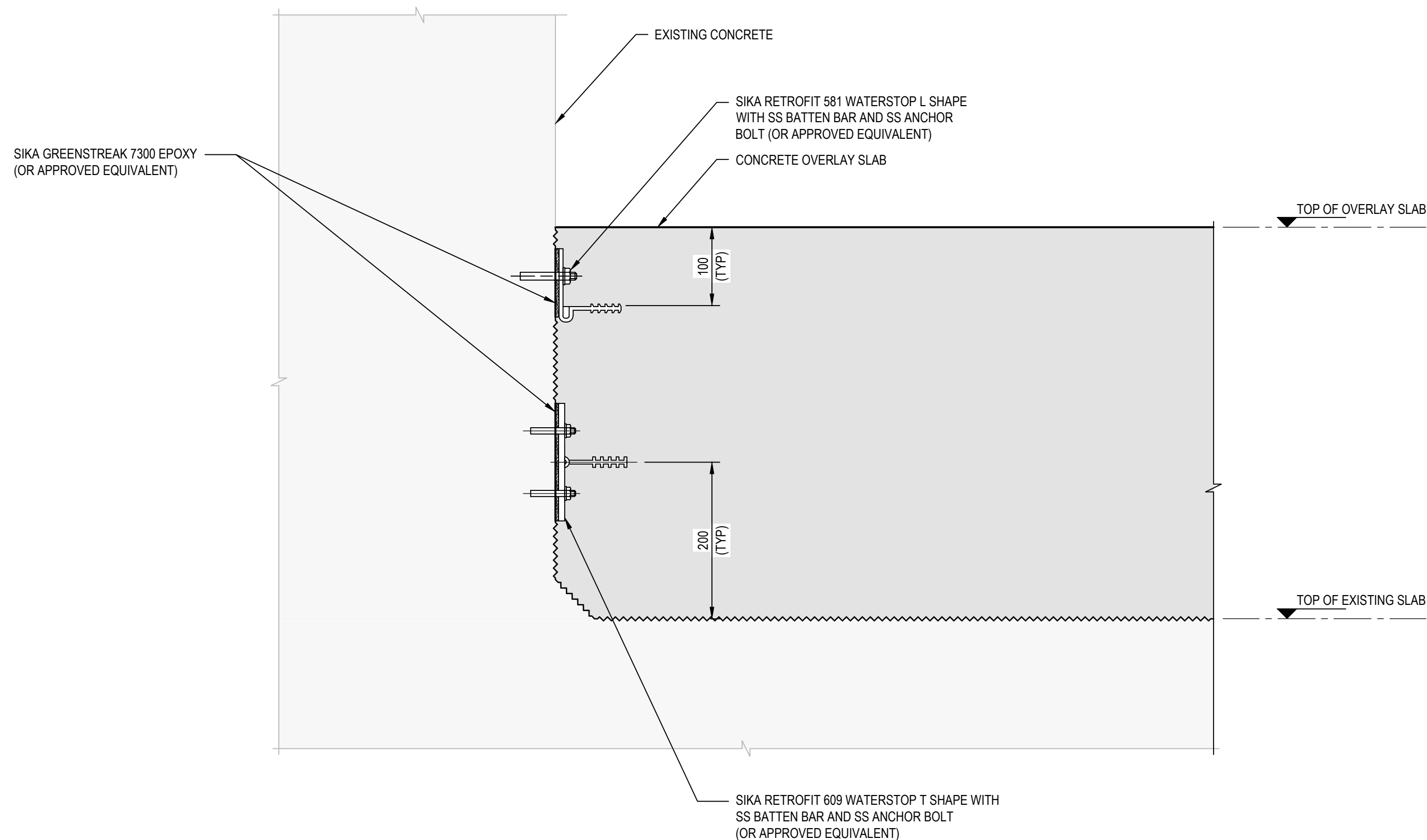
CONTRACTION JOINT TYPICAL DETAIL

1  
S111  
SCALE : 1 : 10



2  
S111  
SCALE : 1 : 5

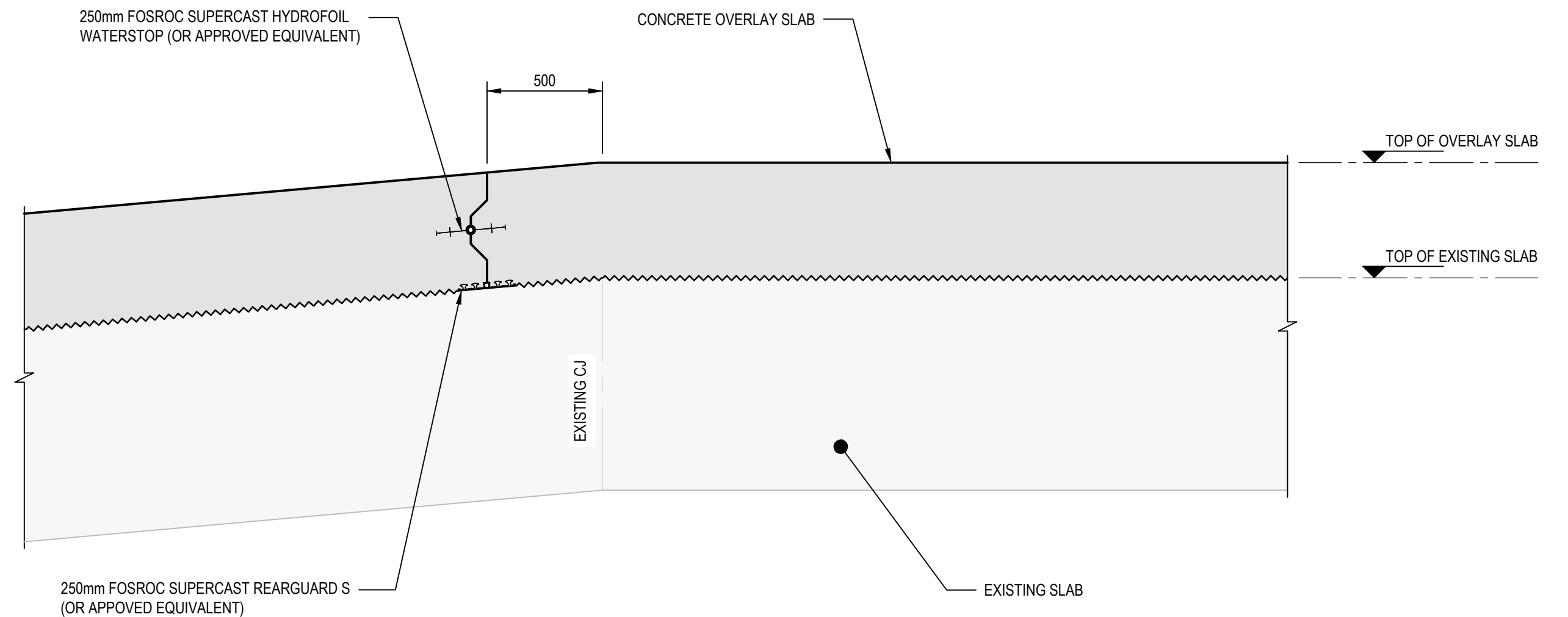
REINFORCEMENT NOT SHOWN FOR CLARITY



CONTRACTION JOINT TO NEW CONCRETE  
TYPICAL DETAIL

3  
S111  
SCALE 1 : 5

REINFORCEMENT NOT SHOWN FOR CLARITY

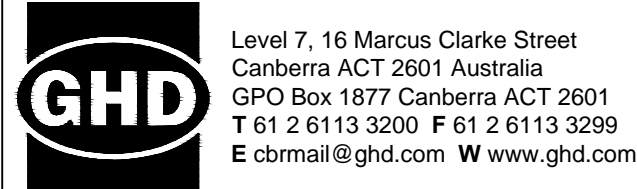
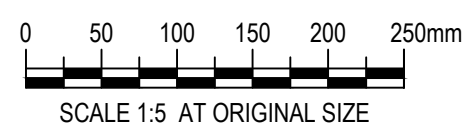
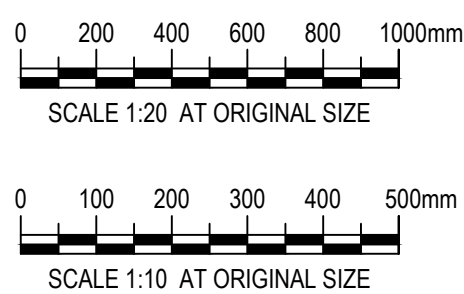


4  
S111  
SCALE : 1 : 20

REINFORCEMENT NOT SHOWN FOR CLARITY

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Rev	Description	Checked	Approved	Date
B	ISSUED FOR TENDER	LN	RF	09.11.23
A	90% DESIGN	LN	RF	24.08.23
Author	E.PAZ	Drafting Check	B.SACAYANAN	
Designer	J.GALLUP	Design Check	L.NEUMANN	



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Project No.  
12591211

Client  
AUSTRALIAN GOVERNMENT  
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Project  
SCRIVENER DAM DISSIPATOR  
STRENGTHENING PROJECT

Status  
PRELIMINARY

Drawing Title  
STRUCTURAL  
TYPICAL JOINT DETAILS

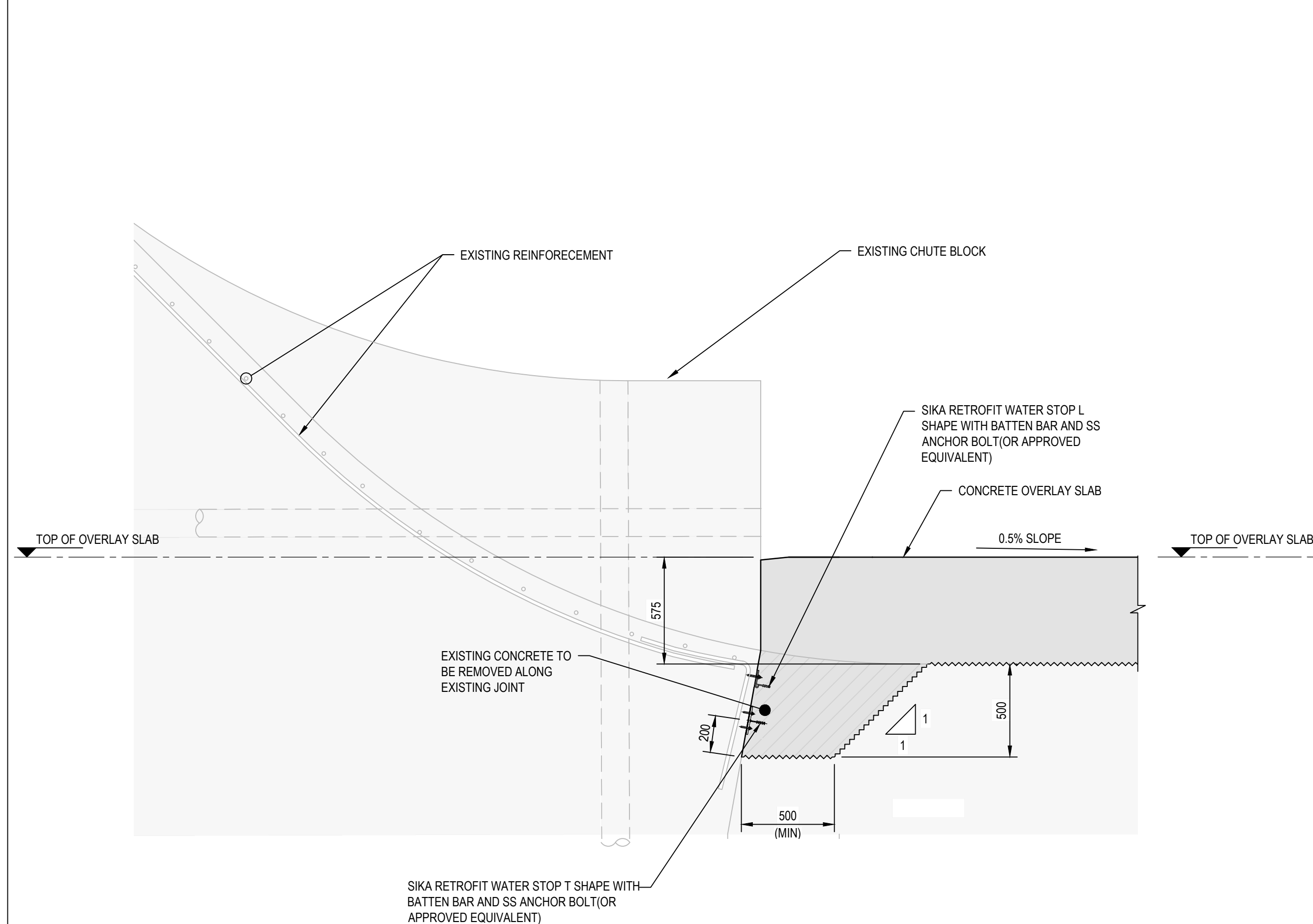
Trim No.  
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Drawing No.  
12591211-S141

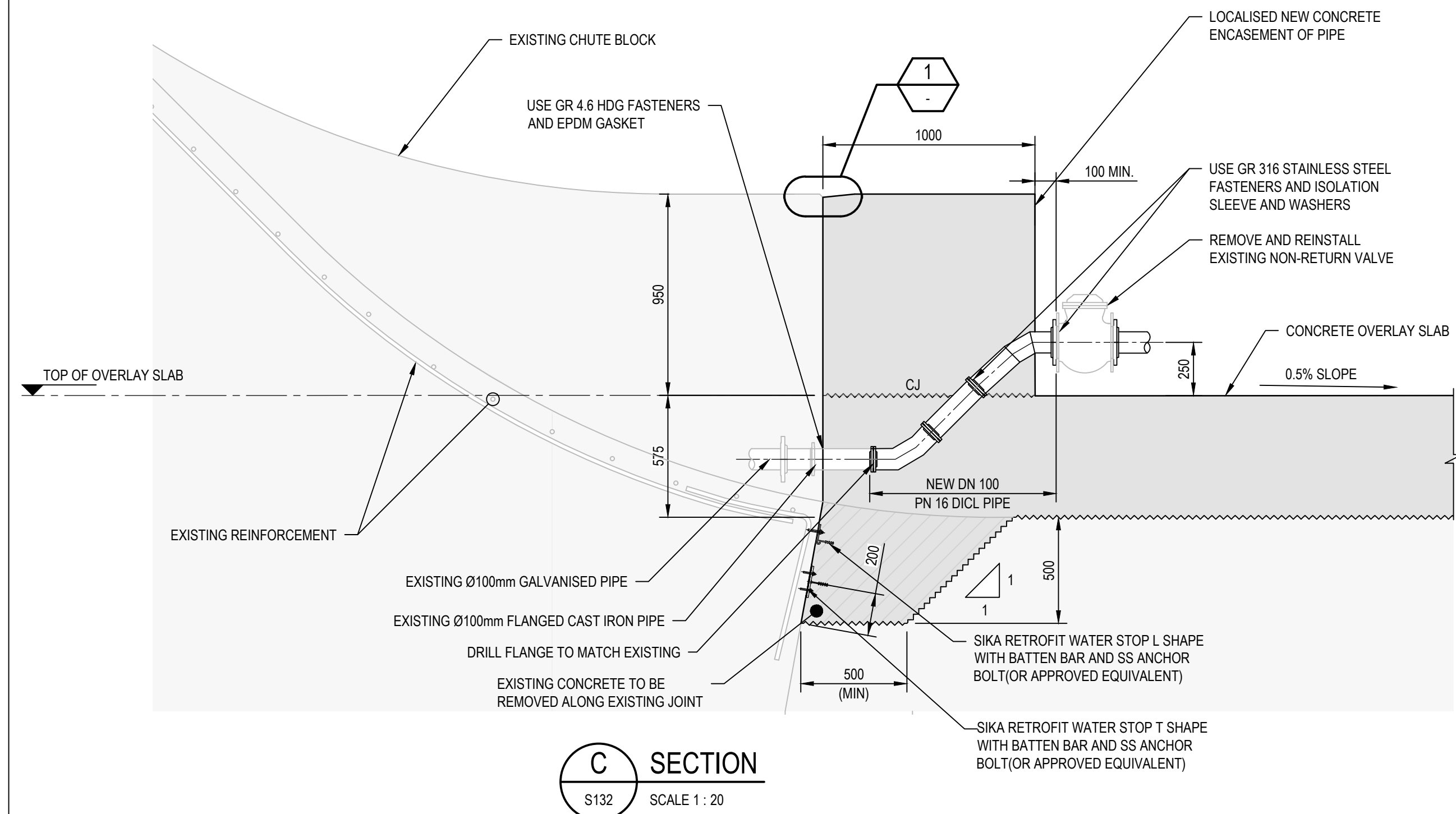
Size  
A1

Rev  
B

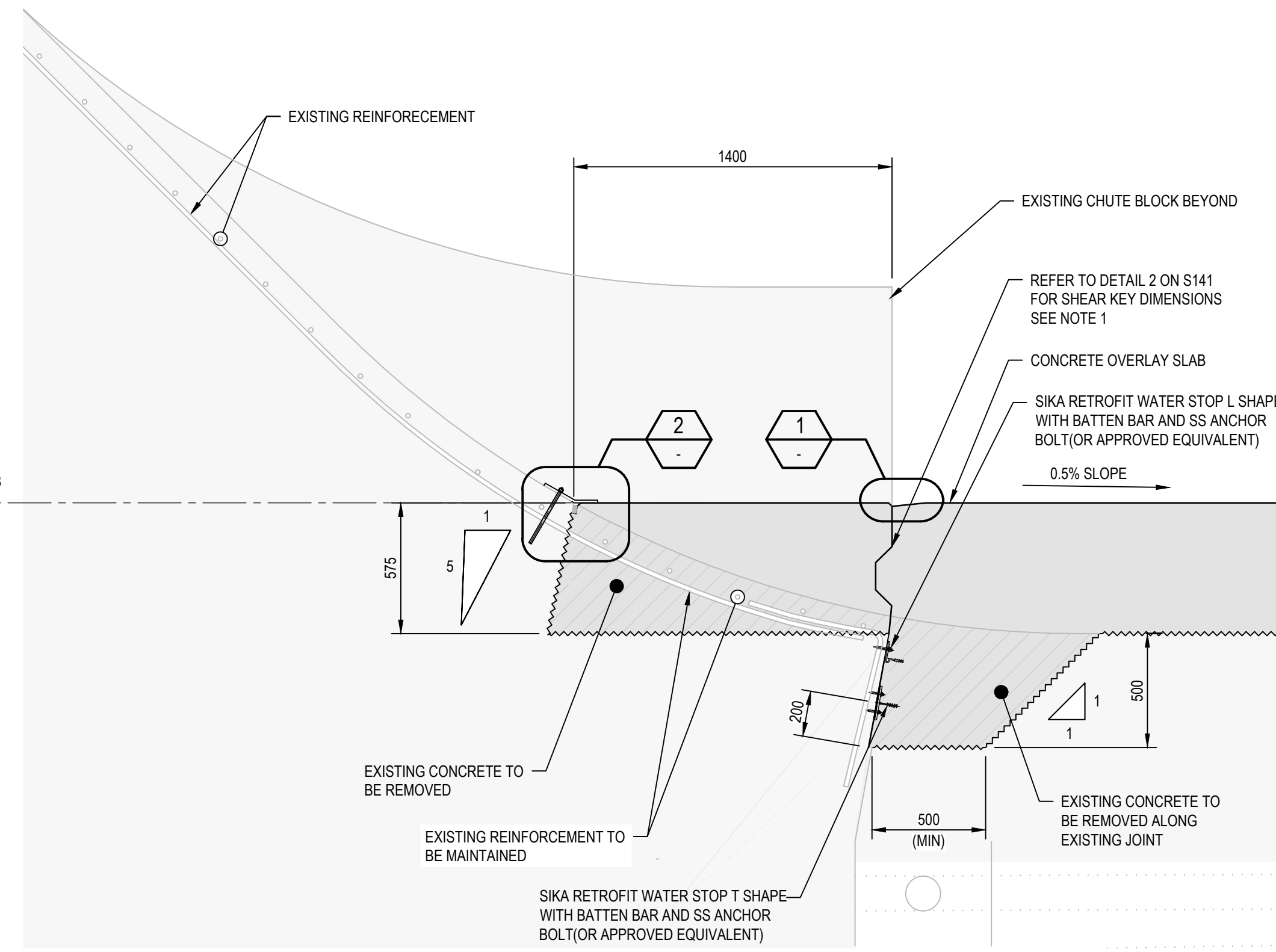




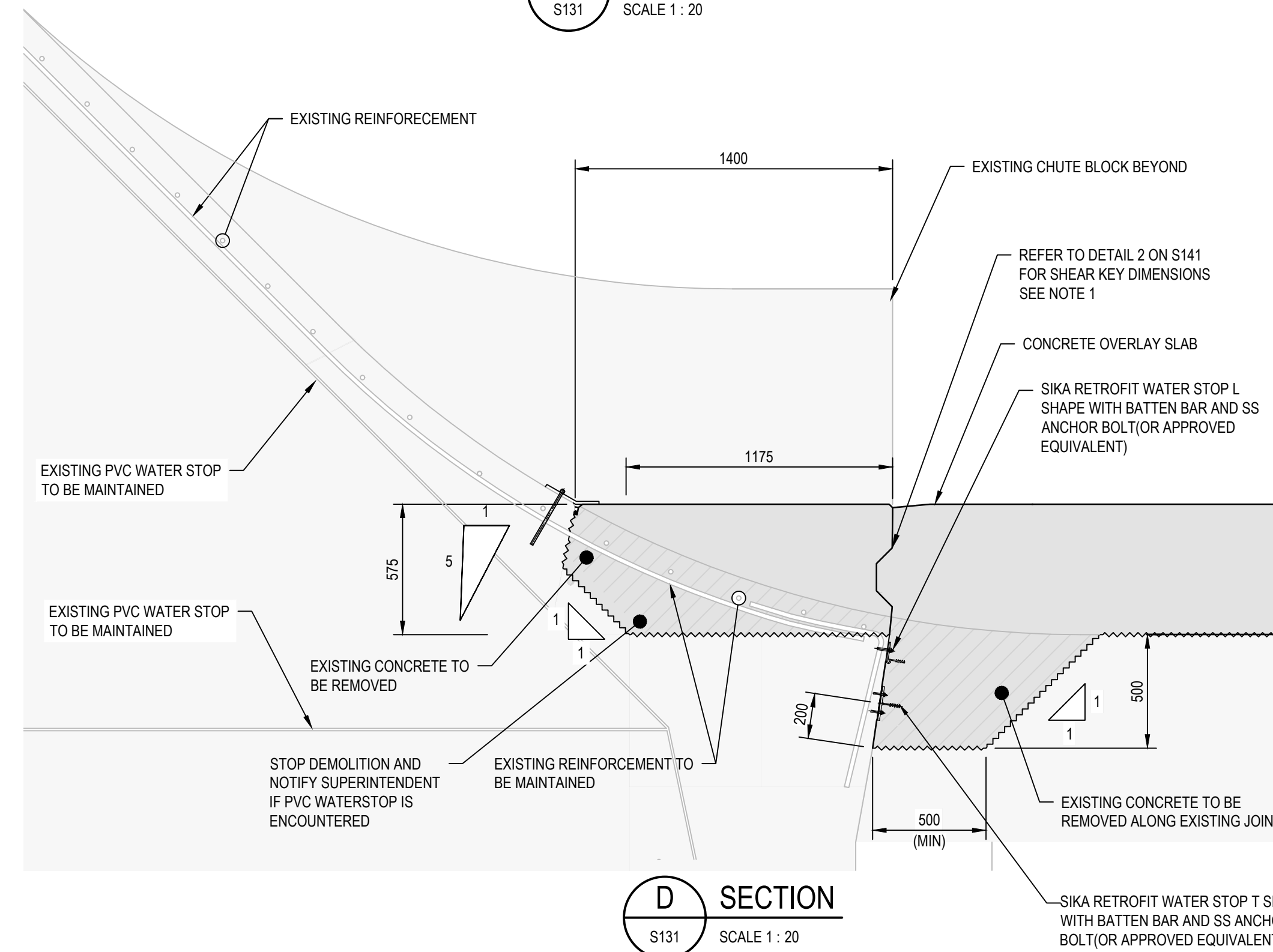
**A SECTION**  
S131 SCALE 1 : 20



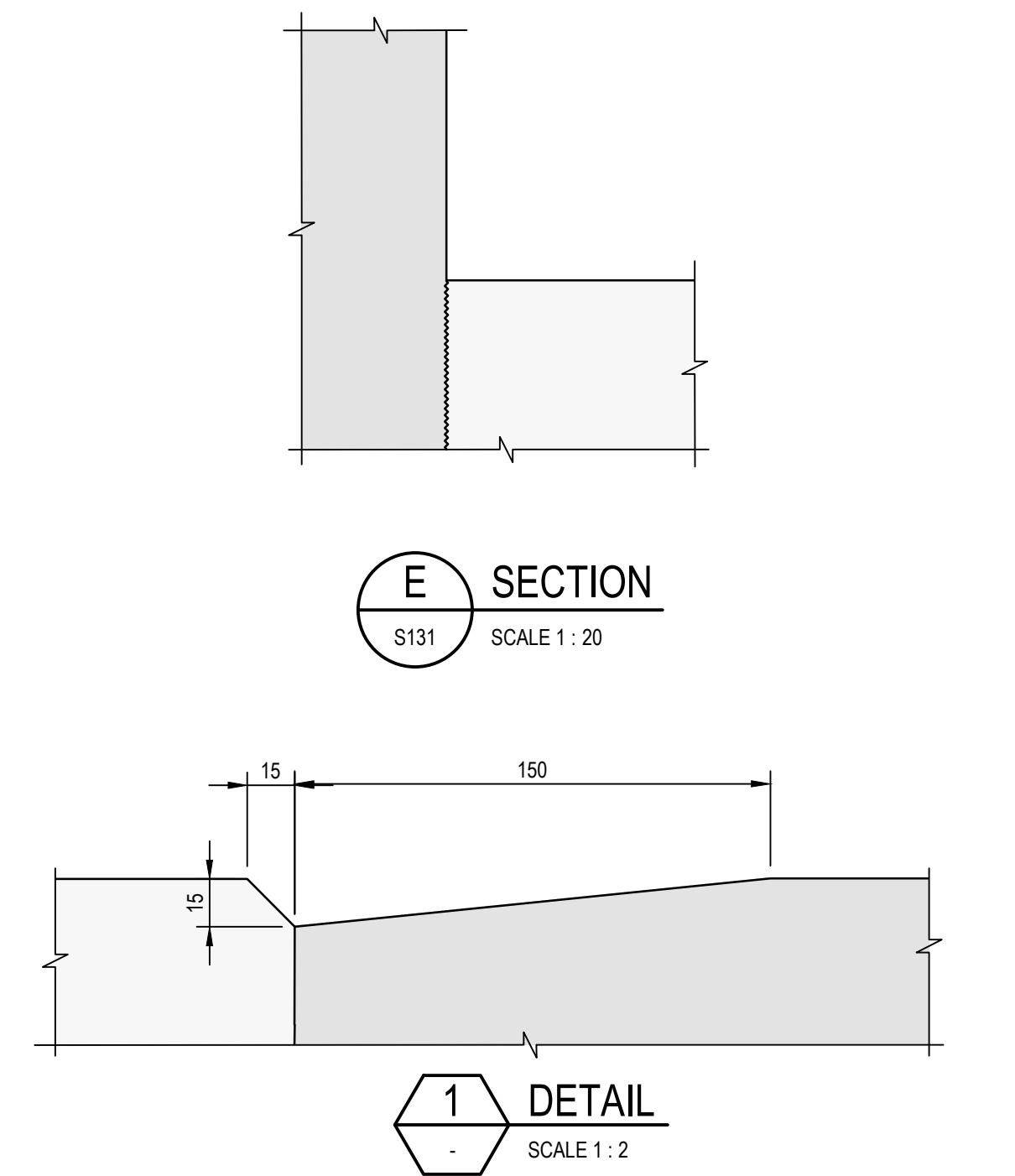
**C SECTION**  
S132 SCALE 1 : 20



**B SECTION**  
S131 SCALE 1 : 20

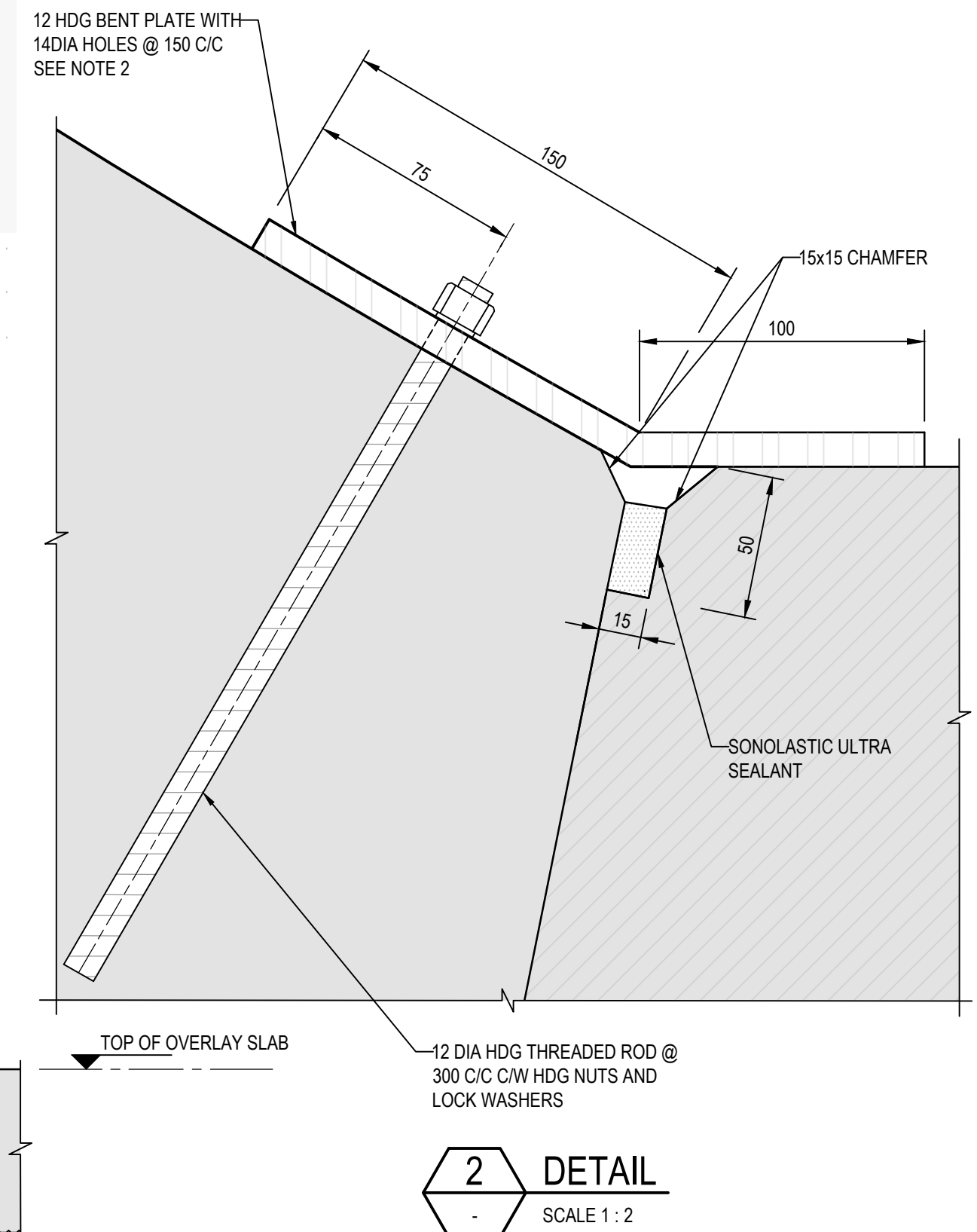


**D SECTION**  
S131 SCALE 1 : 20



**E SECTION**  
S131 SCALE 1 : 20

**1 DETAIL**  
SCALE 1 : 2

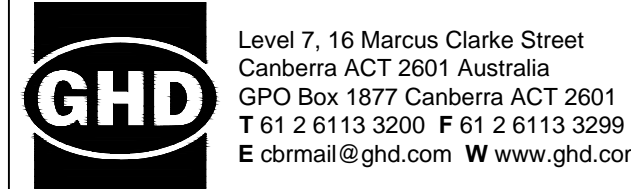
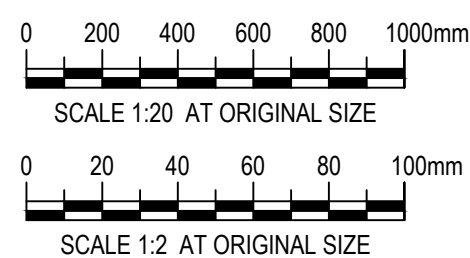


**2 DETAIL**  
SCALE 1 : 2

- NOTE**
1. WATERSTOP NOT REQUIRED AT C/J BETWEEN OVERLAY SLAB AND THE CHUTE INFILL CONCRETE.
  2. CONTRACTOR TO CONFIRM WIDTHS BETWEEN CHUTE BLOCKS PRIOR TO GALVANIZING

NOT FOR CONSTRUCTION

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Project  
**SCRIVENER DAM DISSIPATOR  
STRENGTHENING PROJECT**

Status  
**PRELIMINARY**

Drawing Title  
**STRUCTURAL  
TYPICAL UPSTREAM TIE-IN DETAILS**

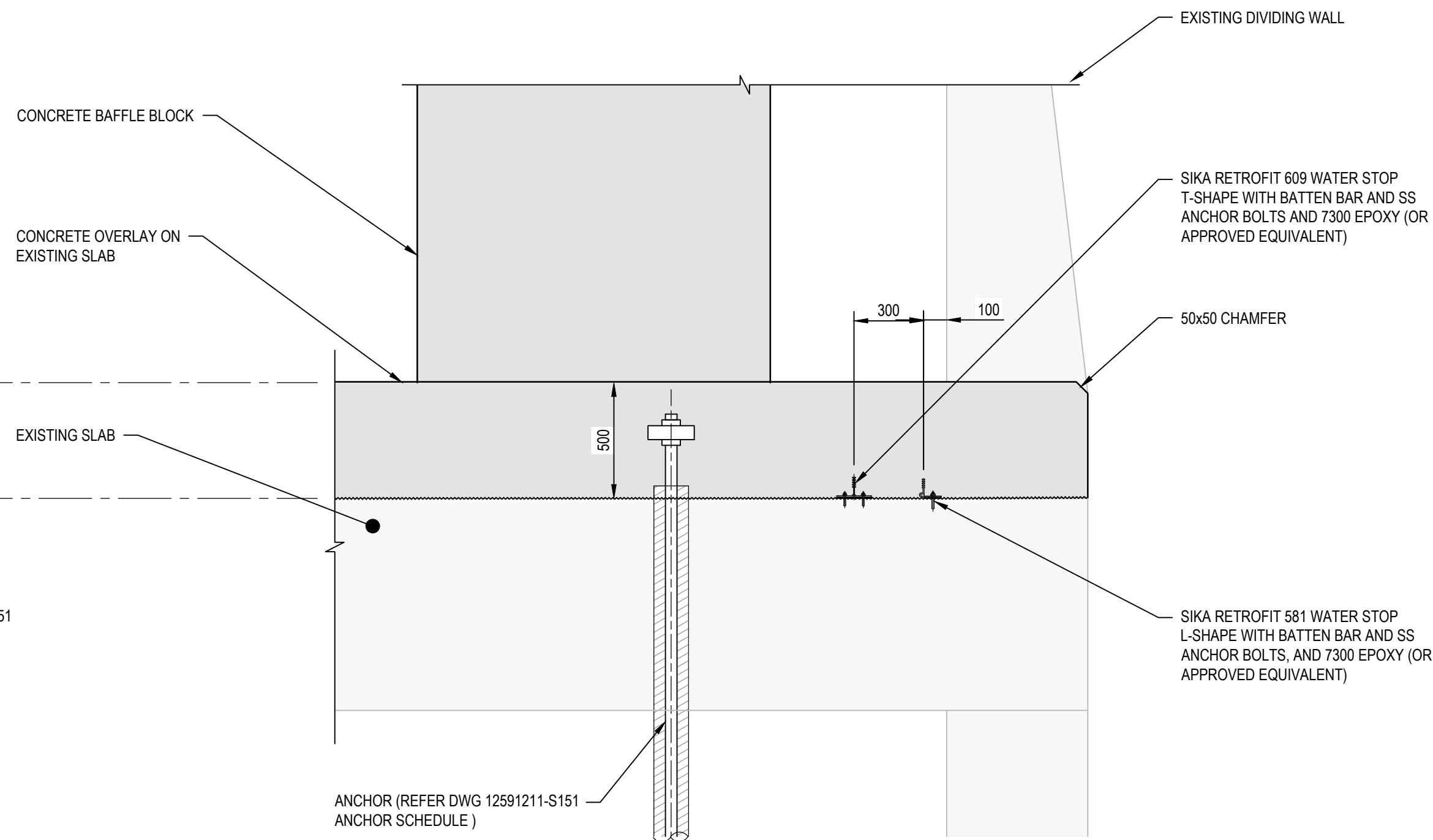
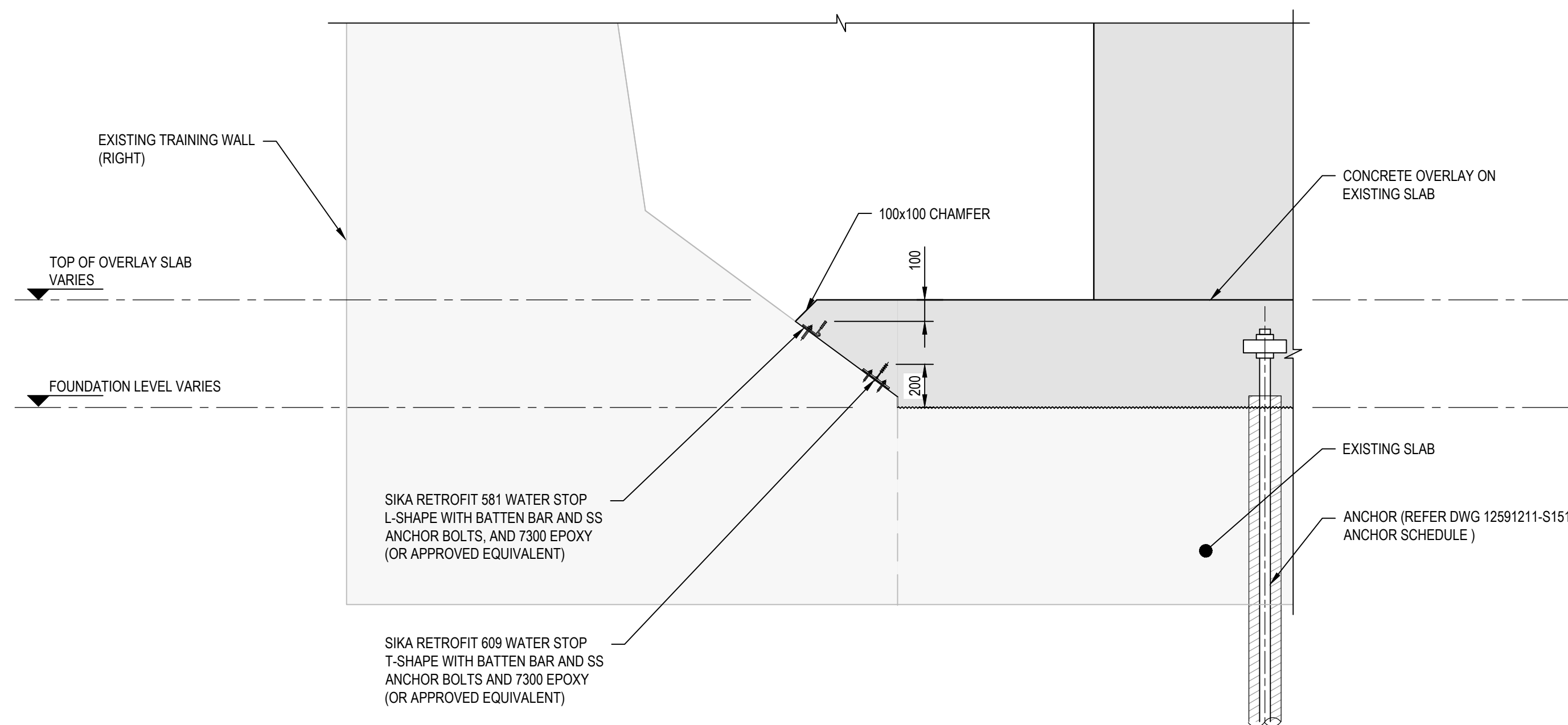
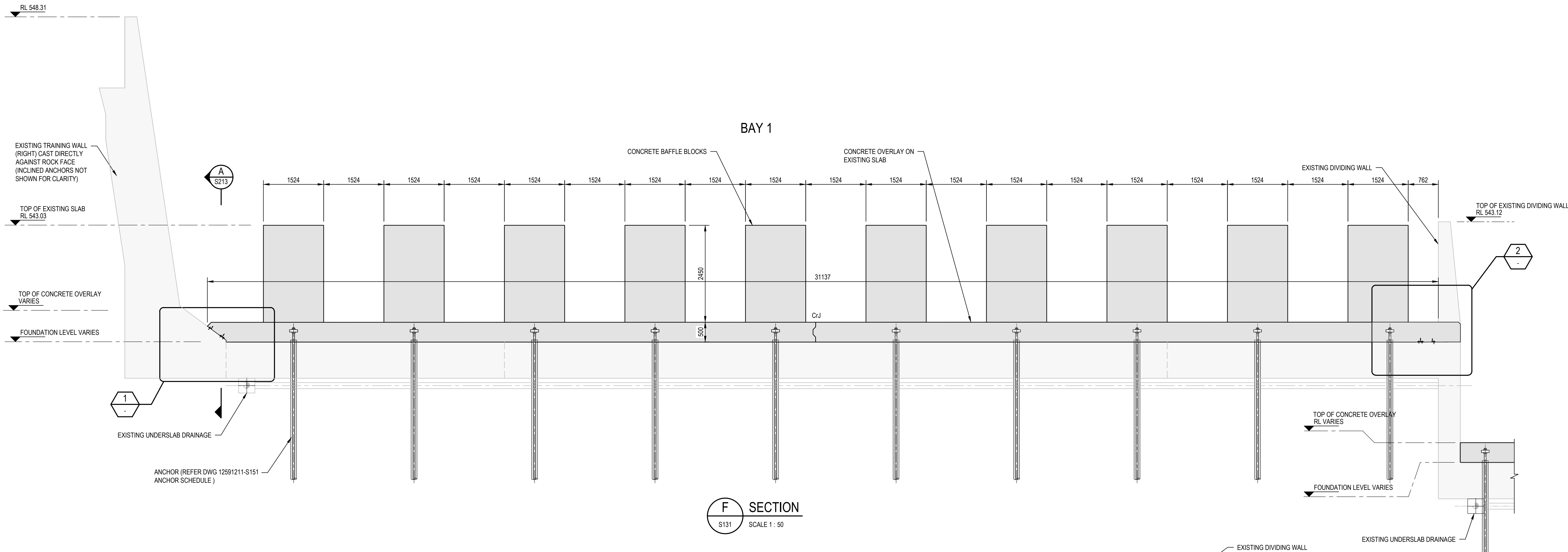
Trim No.  
536467

Drawing No.  
12591211-S142

Size  
**A1**

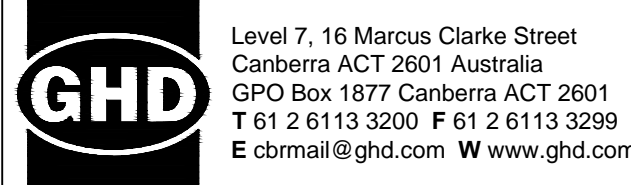
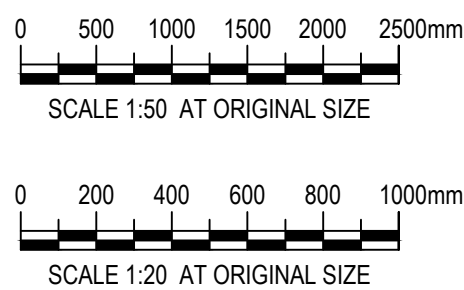
Rev  
**B**





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B	ISSUED FOR TENDER	LN	RF	09.11.23
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Designer	J.GALLUP	Design Check	L.NEUMANN	



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Status  
**PRELIMINARY**

Drawing Title  
**STRUCTURAL  
BAY 1 TIE IN DETAILS**

Trim No.  
**536468**

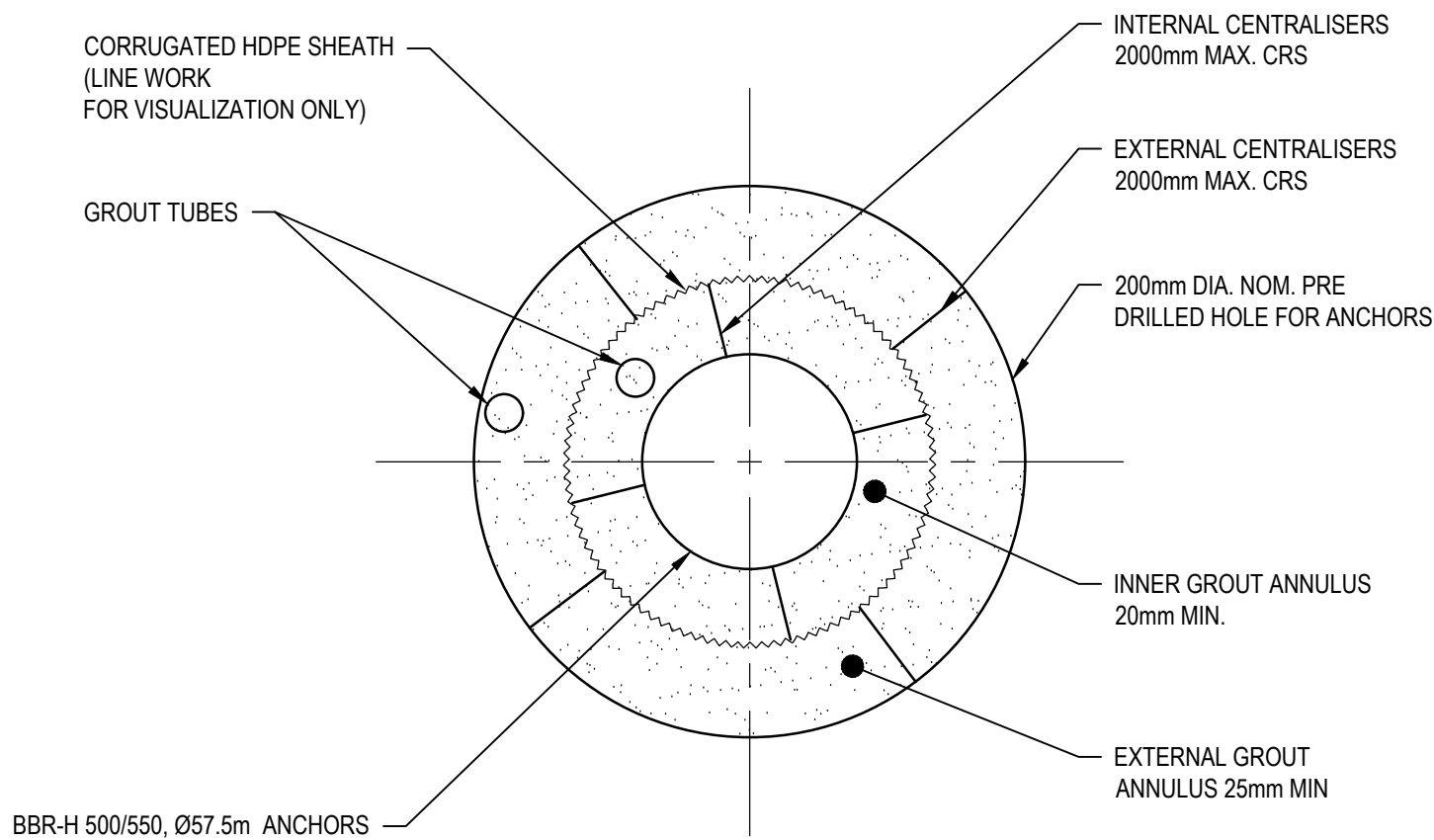
Drawing No.  
**12591211-S143**

Size  
**A1**

Rev  
**B**

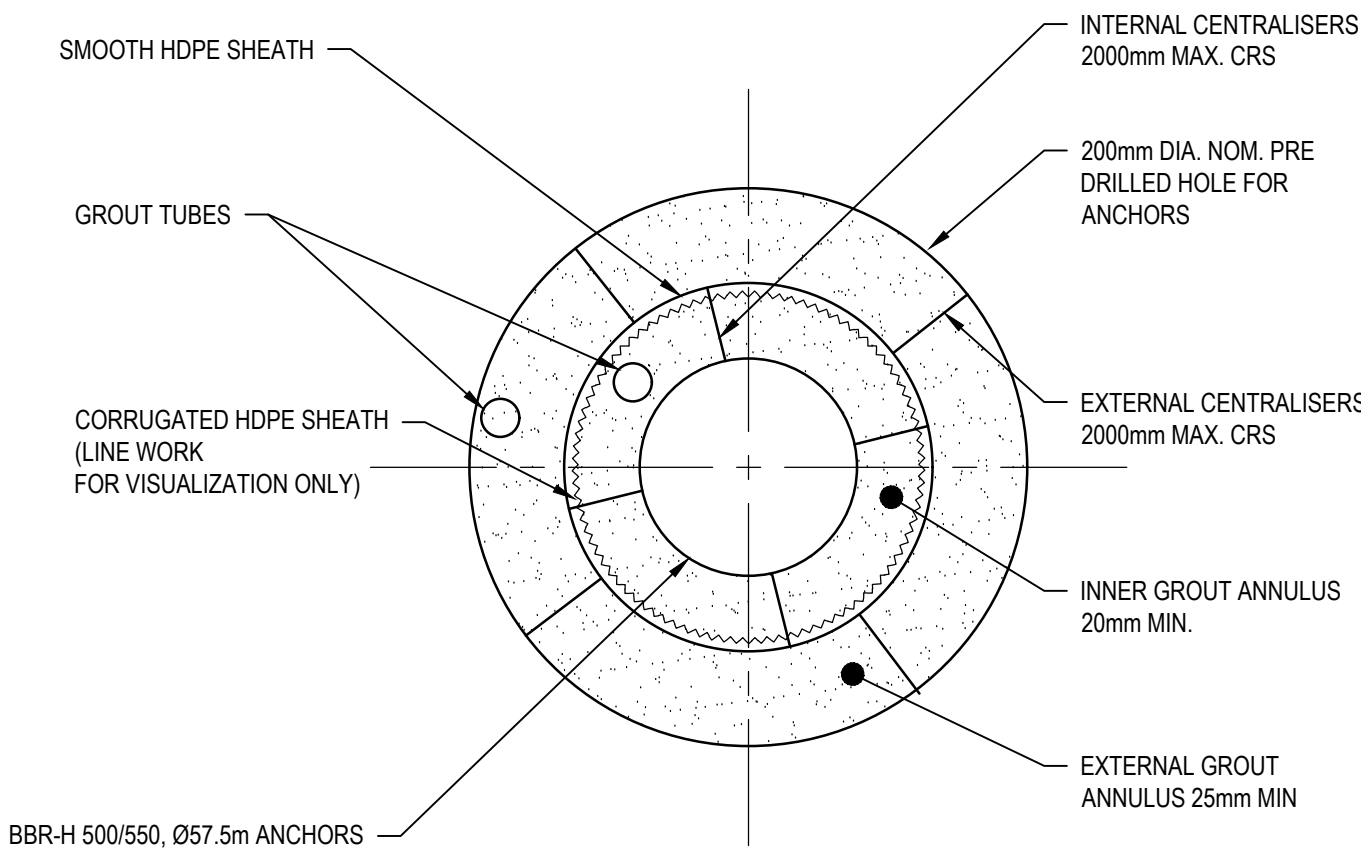


ANCHOR SCHEDULE TABLE							
BAY	LOCATION	START	END	BBR-H ANCHOR Ø	ANCHOR GRADE	EMBEDMENT LENGTH (MIN)	BOND LENGTH
		ANCHOR ID	ANCHOR ID	mm	MPa	m	m
BAY 1	UPSTREAM	B1A01	B1F10	57.5	500 / 550	11.7	3
	BAFFLE BLOCKS	B1BB01	B1BB10	57.5	500 / 550	10.5	3
	DOWNSTREAM	B1G01	B1M10	50	500 / 550	8.7	3
BAY 2	UPSTREAM	B2A01	B1F11	57.5	500 / 550	11.7	3
	BAFFLE BLOCKS	B2BB01	B2BB11	57.5	500 / 550	10.5	3
	DOWNSTREAM	B2G01	B2M11	50	500 / 550	8.7	3
BAY 3	UPSTREAM	B3A01	B3F11	57.5	500 / 550	11.7	3
	BAFFLE BLOCKS	B3BB01	B3BB11	57.5	500 / 550	10.5	3
	DOWNSTREAM	B3G01	B3M11	50	500 / 550	8.7	3
BAY 4	UPSTREAM	B4A01	B4F11	57.5	500 / 550	11.7	3
	BAFFLE BLOCKS	B4BB01	B4BB11	57.5	500 / 550	10.5	3
	DOWNSTREAM	B4G01	B4M11	50	500 / 550	8.7	3
BAY 5	UPSTREAM	B5A01	B5F11	57.5	500 / 550	11.7	3
	BAFFLE BLOCKS	B5BB01	B5BB11	57.5	500 / 550	10.5	3
	DOWNSTREAM	B5G01	B5M11	50	500 / 550	8.7	3



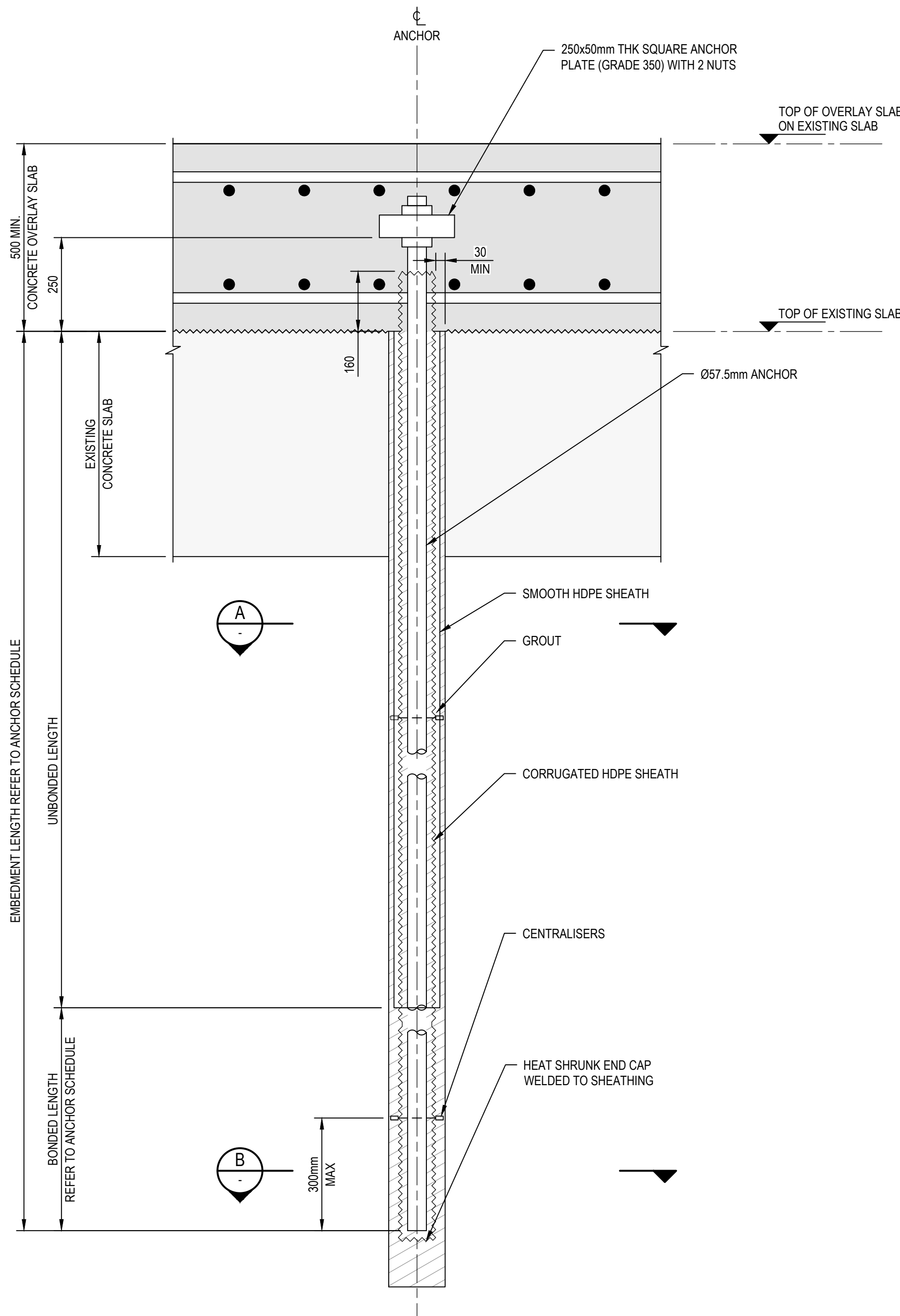
TYPICAL BONDED THROUGH ANCHOR

A SECTION  
SCALE 1 : 2



TYPICAL UNBONDED THROUGH ANCHOR

B SECTION  
SCALE 1 : 2



TYPICAL PASSIVE ANCHOR DETAIL

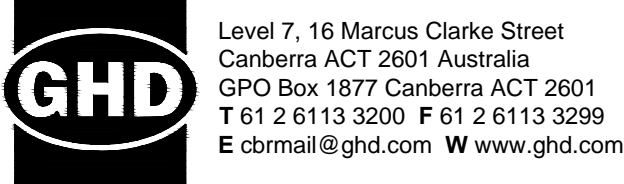
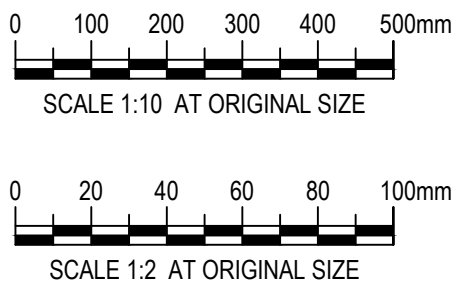
SCALE 1:10

NOTE

1. THE ANCHOR ARRANGEMENT IS SHOWN AS A TYPICAL ARRANGEMENT AND HOLE DIAMETER IS INDICATIVE. CONTRACTOR SHALL CONFIRM PROPOSED GROUTED ANCHOR CONSTRUCTION METHOD STATEMENT PRIOR TO ANCHOR FABRICATION OR COMMENCEMENT OF WORK.

NOT FOR CONSTRUCTION

B ISSUED FOR TENDER				LN	RF	09.11.23
A 90% DESIGN				LN	RF	24.08.23
Rev	Description	Checked	Approved	Date		
Author	E.PAZ	Drafting Check	B.SACAYANAN			
Designer	J.GALLUP	Design Check	L.NEUMANN			



Project No.  
12591211

Client  
AUSTRALIAN GOVERNMENT  
NATIONAL CAPITAL AUTHORITY  
Project  
SCRIVENER DAM DISSIPATOR  
STRENGTHENING PROJECT

Status  
PRELIMINARY

Drawing Title  
STRUCTURAL  
ANCHOR SCHEDULE  
AND TYPICAL PASSIVE ANCHOR DETAIL

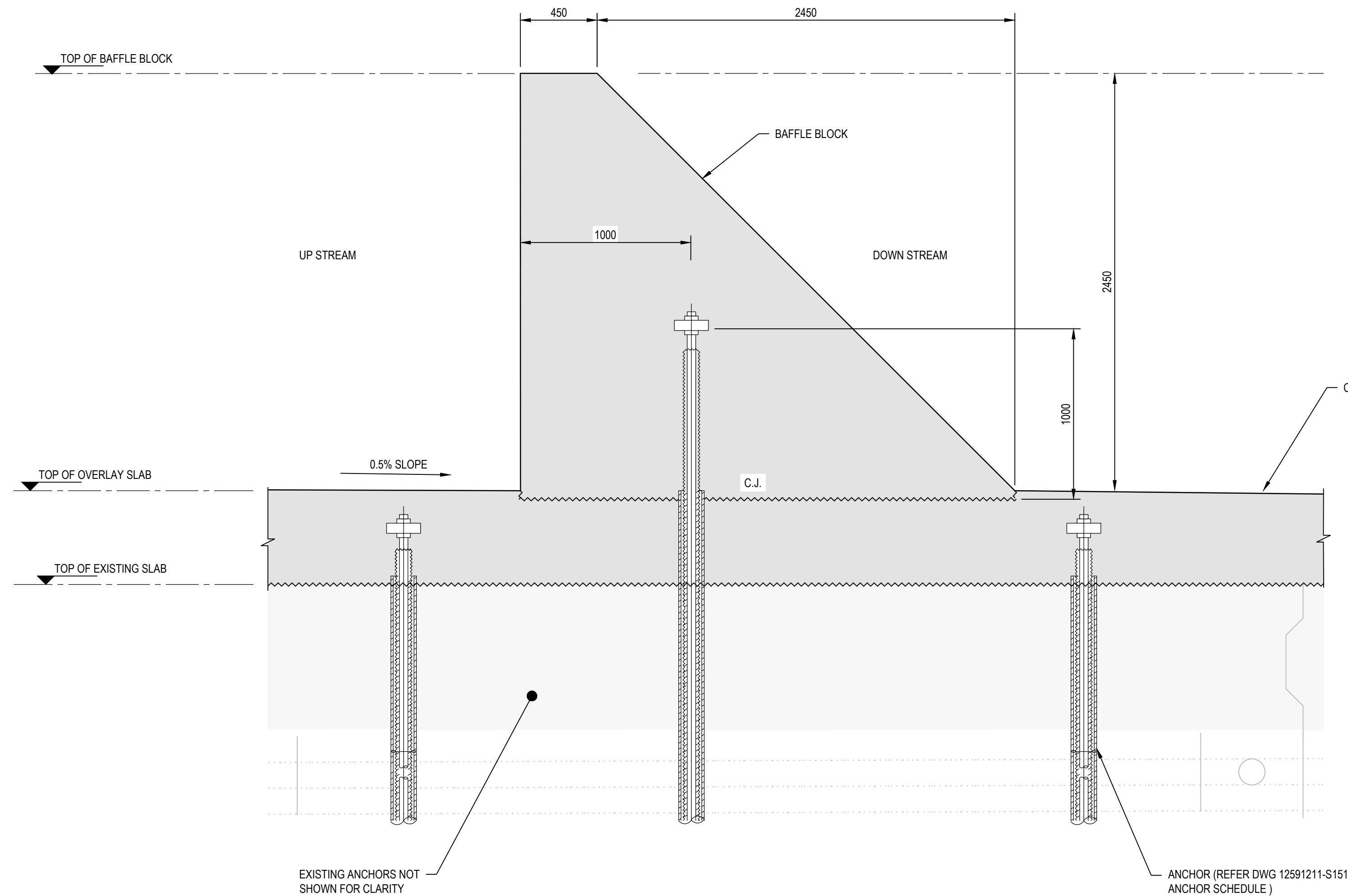
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Drawing No.  
12591211-S151

Size  
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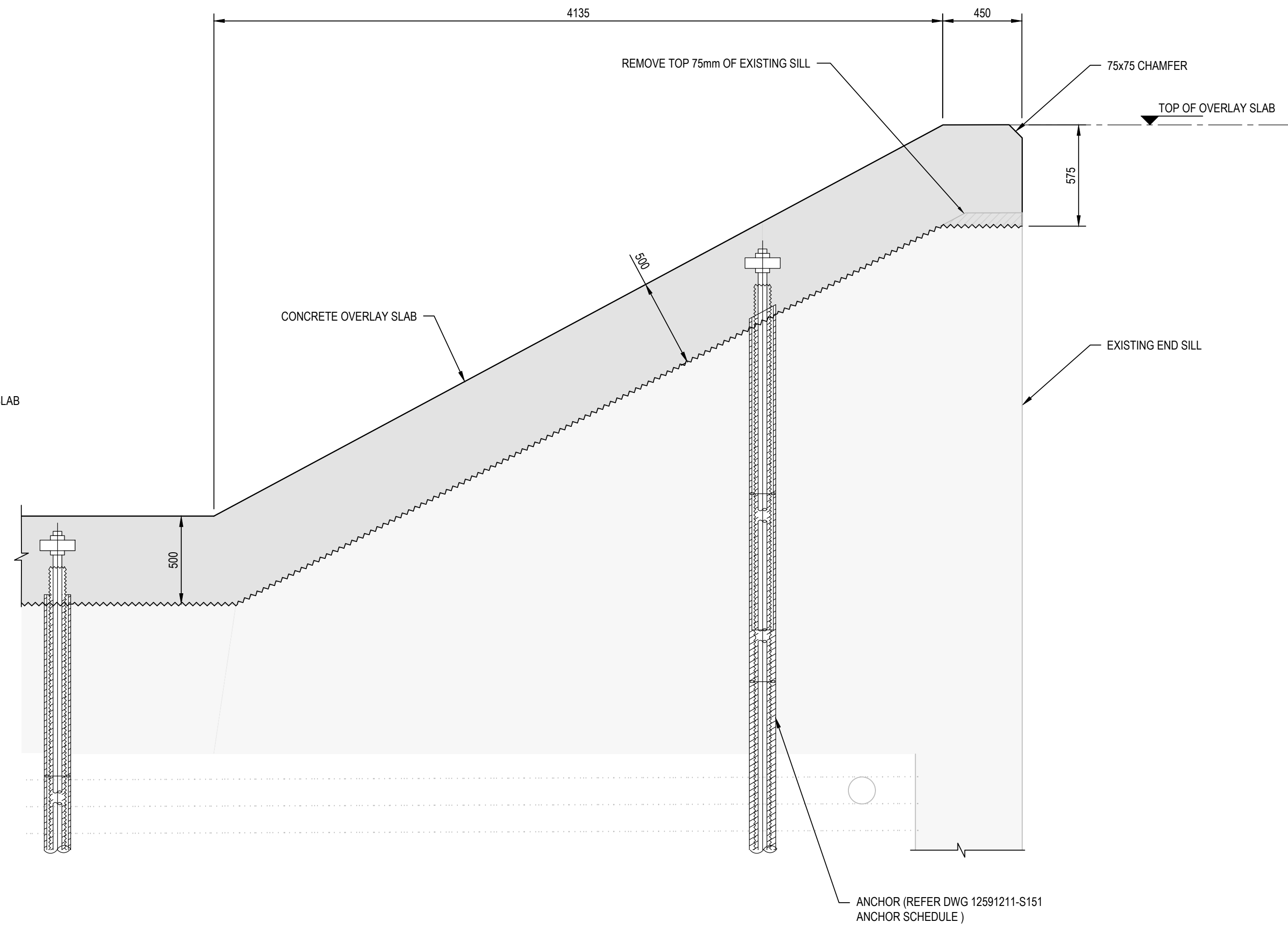
Rev  
B





2 DETAIL  
S121 SCALE 1 : 20

EXISTING REINFORCEMENT AND ANCHORS NOT SHOWN FOR CLARITY



3 DETAIL  
S121 SCALE 1 : 20

EXISTING REINFORCEMENT AND ANCHORS NOT SHOWN FOR CLARITY

NOT FOR CONSTRUCTION

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Designer	J.GALLUP	Design Check	L.NEUMANN			



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Project SCRIVENER DAM DISSIPATOR  
STRENGTHENING PROJECT

Status PRELIMINARY

Status Code S0

Drawing Title  
STRUCTURAL  
BAFFLE BLOCK AND ENDSILL  
SECTION

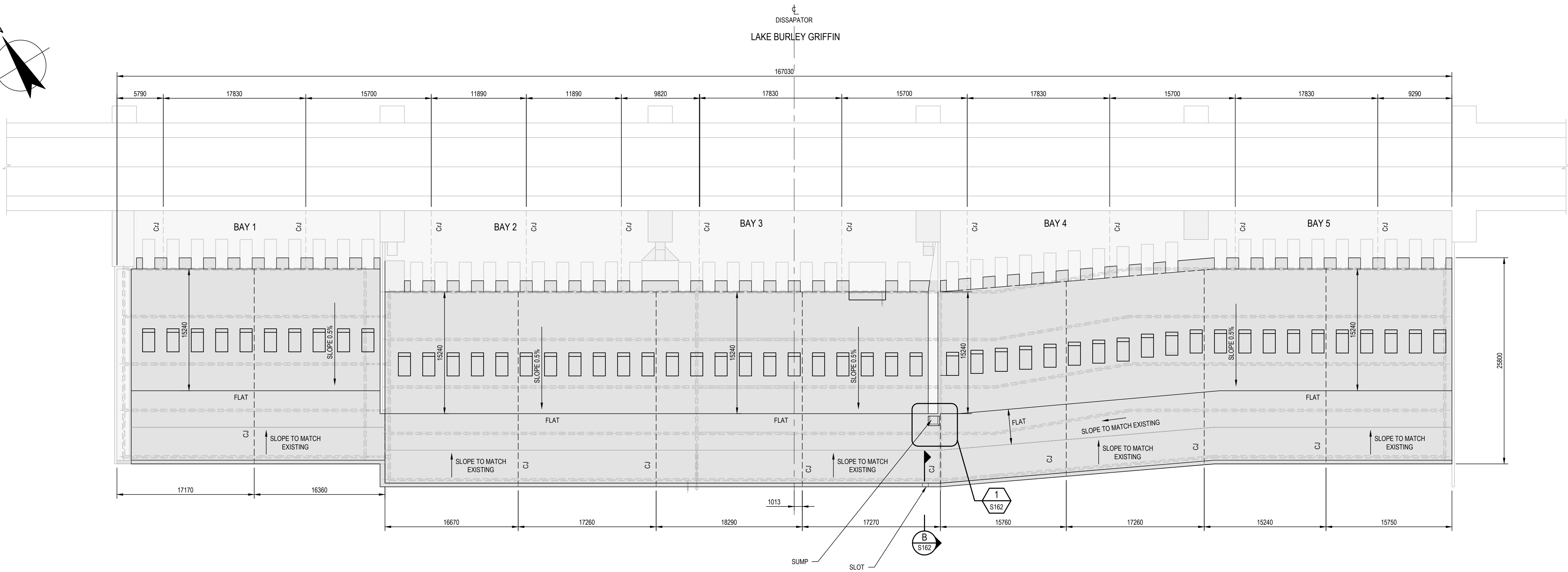
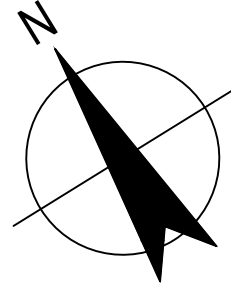
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Drawing No.  
12591211-S152

Size  
A1

Rev  
B

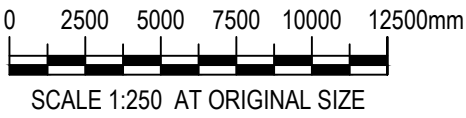




MOLONGLO RIVER  
**DRAINAGE ARRANGEMENT PLAN**  
SCALE 1:250  
REINFORCEMENT AND ANCHORS NOT SHOWN FOR CLARITY

NOT FOR CONSTRUCTION

B ISSUED FOR TENDER				LN	RF	09.11.23
A 90% DESIGN				LN	RF	24.08.23
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Designer	J.GALLUP	Design Check	L.NEUMANN			



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STRENGTHENING PROJECT

Status  
PRELIMINARY

Drawing  
Title  
STRUCTURAL  
DISSIPATOR UPGRADE  
DRAINAGE ARRANGEMENT

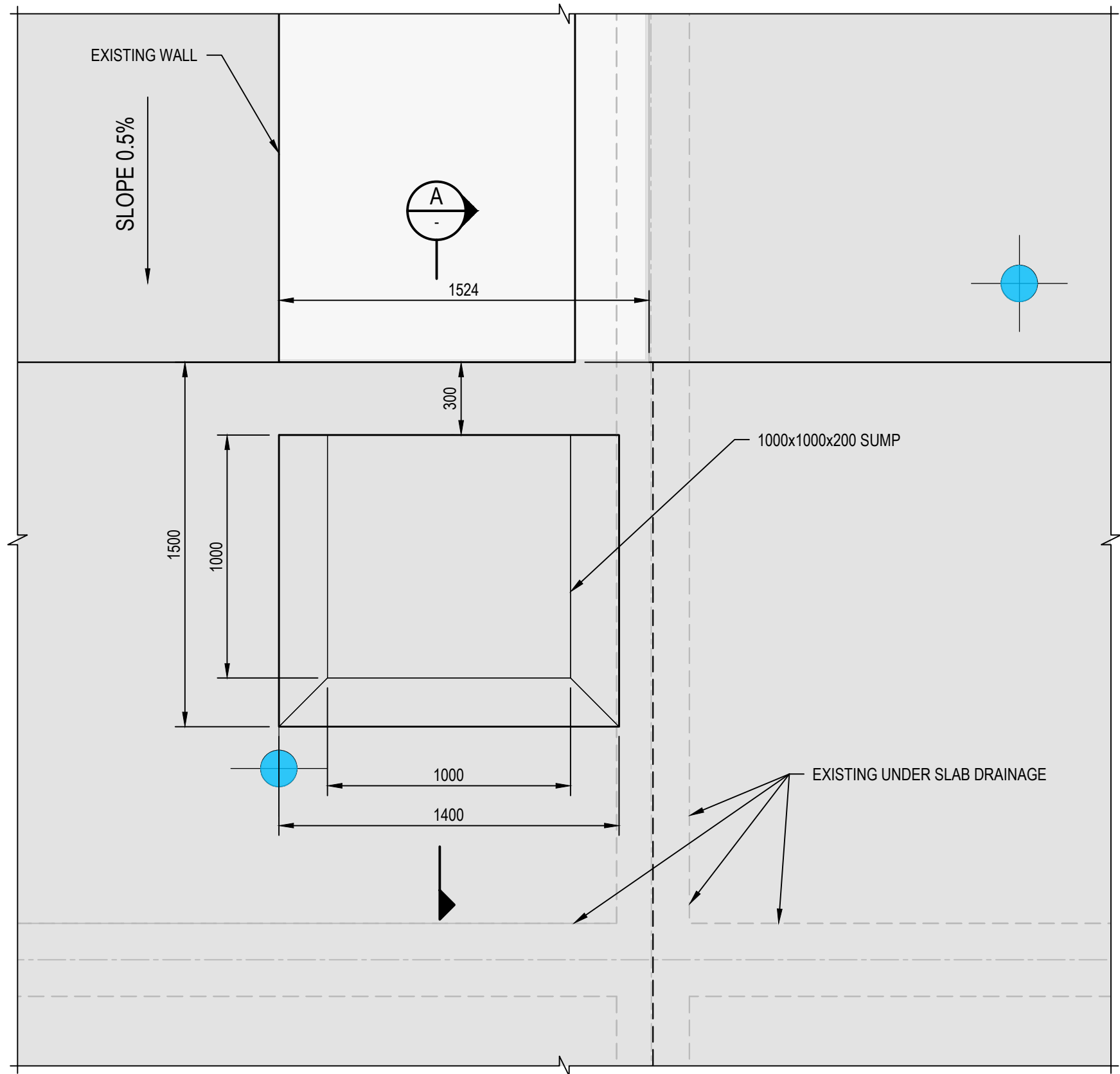
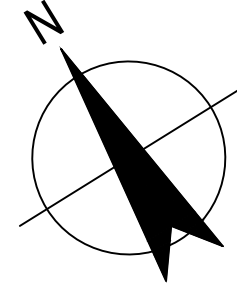
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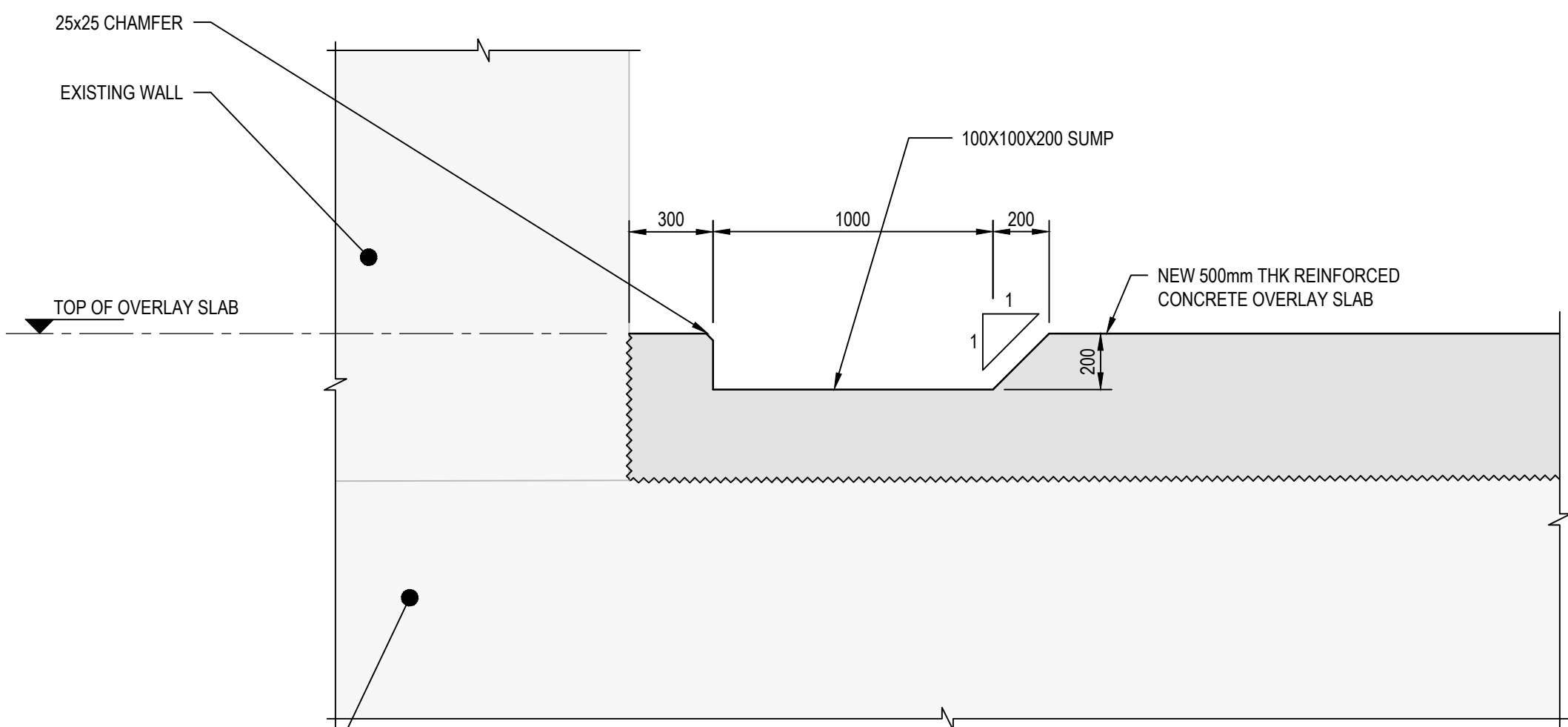
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A1

Rev  
B

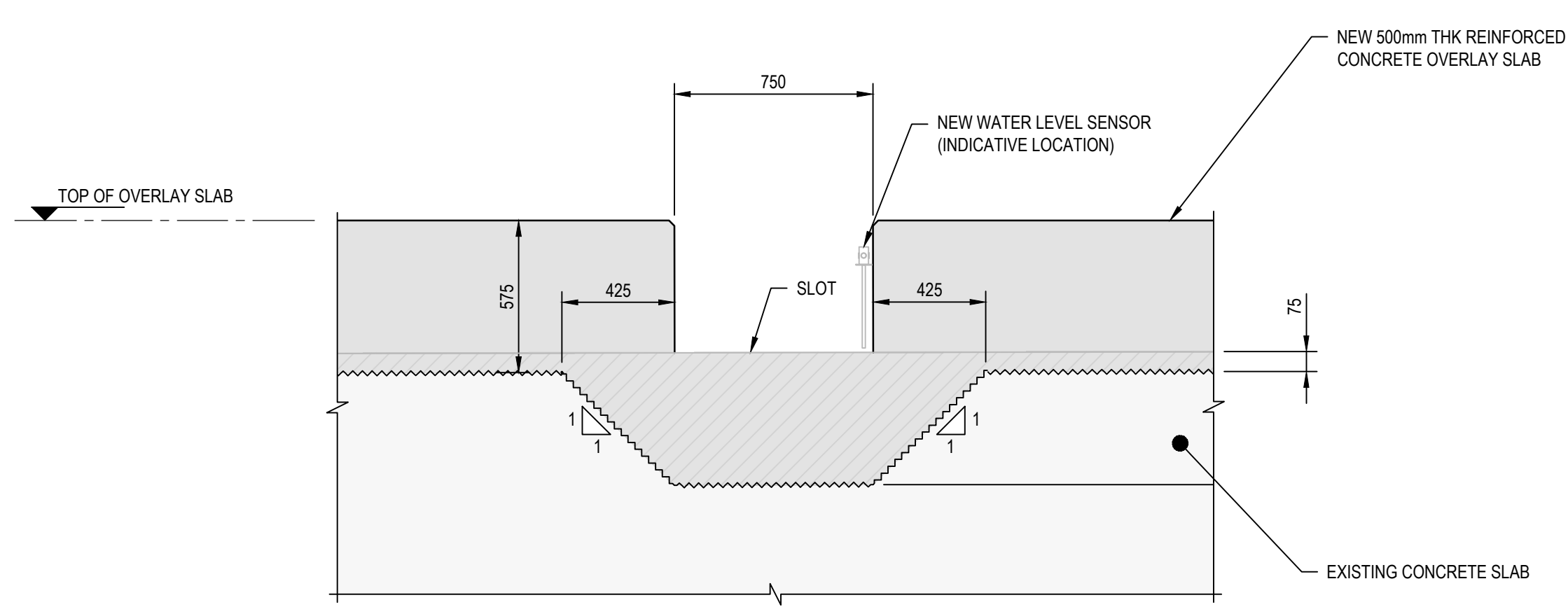




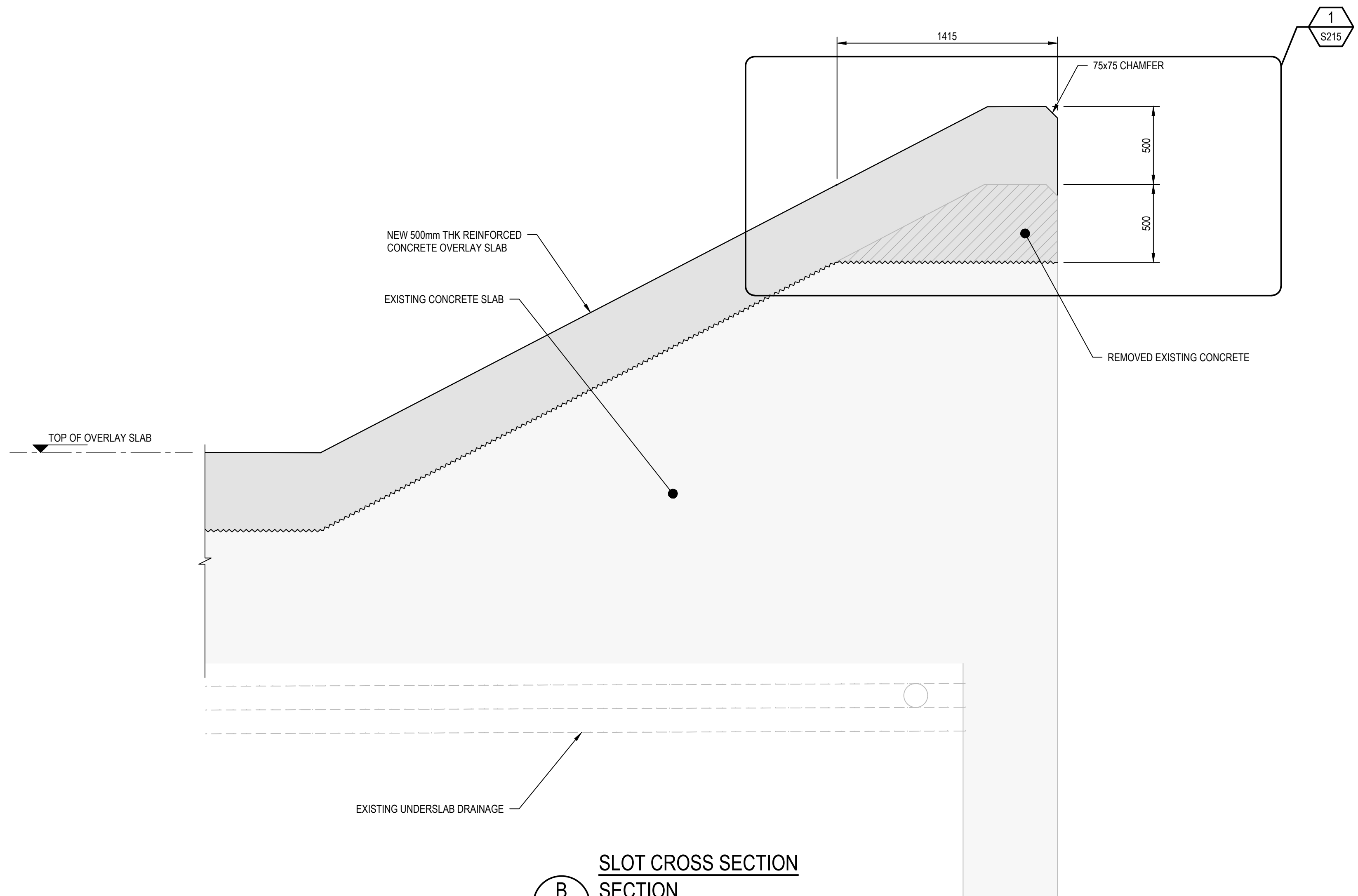
**SUMP ARRANGEMENT PLAN  
DETAIL**  
SCALE 1 : 20



**SECTION  
A**  
SCALE 1 : 20



**SLOT ELEVATION**  
SCALE 1 : 20

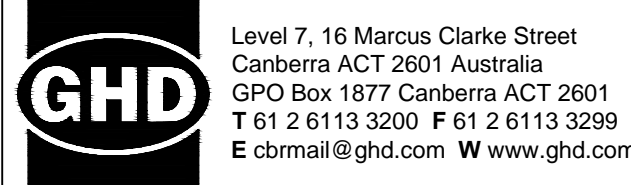


**SLOT CROSS SECTION  
SECTION  
B**  
SCALE 1 : 20

**LEGEND:**  
ANCHOR

NOT FOR CONSTRUCTION

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B	ISSUED FOR TENDER	LN	RF	09.11.23
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Author	E.PAZ	Drafting Check	B.SACAYANAN	
Designer	J.GALLUP	Design Check	L.NEUMANN	



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**SCRIVENER DAM DISSIPATOR  
STRENGTHENING PROJECT**

Status  
**PRELIMINARY**

Status  
Code **S0**

Drawing  
Title  
**STRUCTURAL  
DISSIPATOR UPGRADE  
SUMP AND SLOT DETAILS**

Trim No.  
**543681**

Drawing No.  
**12591211-S162**

Size  
**A1**

Rev  
**B**





ANCHORS NOT SHOWN FOR CLARITY

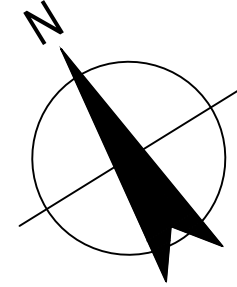
Drawing  
Title

STRUCTURAL  
REINFORCEMENT PLAN  
BAY 1 AND 2

# STRUCTURAL REINFORCEMENT PLAN BAY 1 AND 2

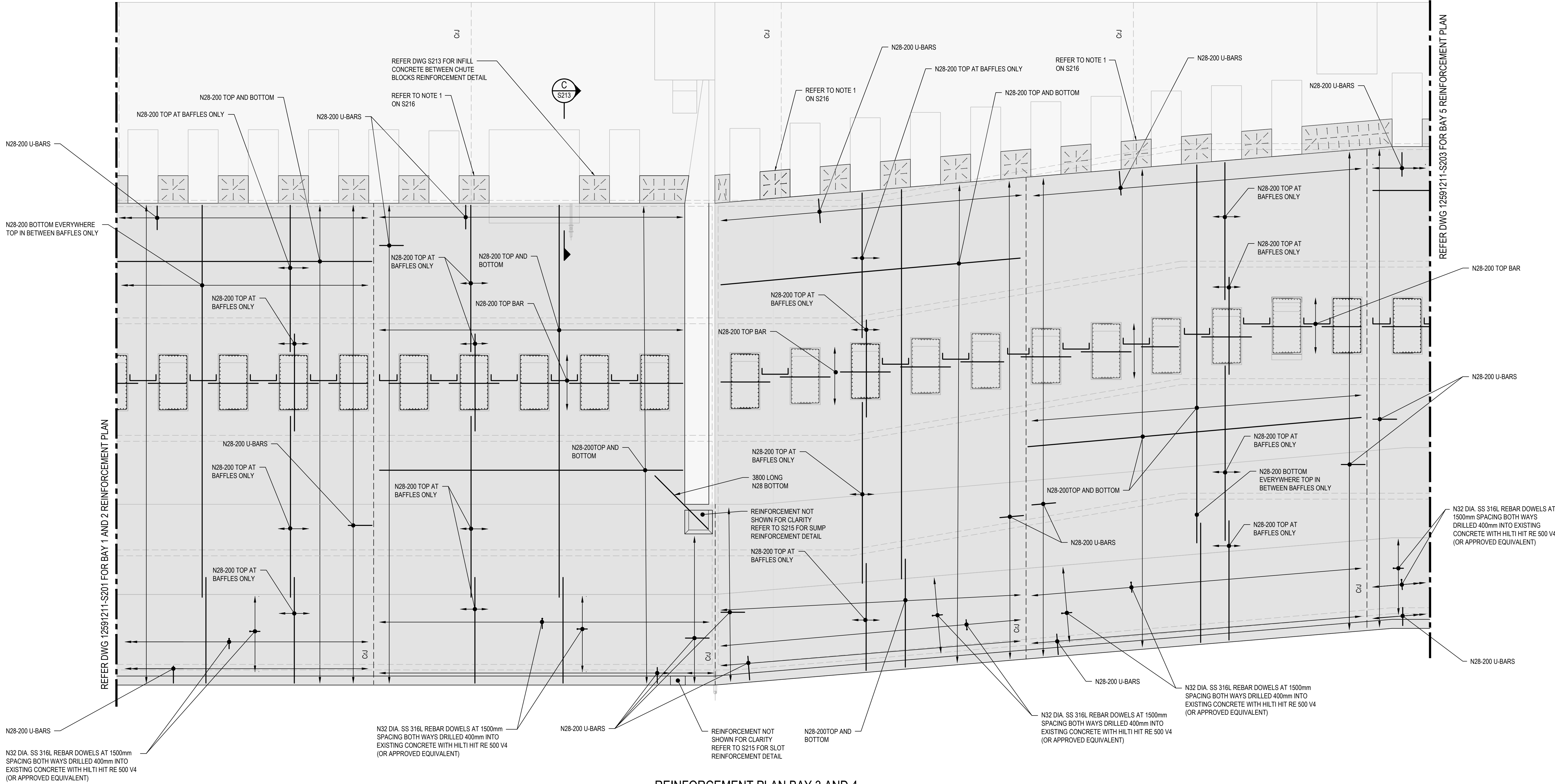
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BAY 3

BAY 4



REINFORCEMENT PLAN BAY 3 AND 4

SCALE 1:100

ANCHORS NOT SHOWN FOR CLARITY

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Author	L. ESGUERRA	Drafting Check	B.SACAYANAN	
Designer	J.GALLUP	Design Check	L.NEUMANN	



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STRENGTHENING PROJECT**

Status  
**PRELIMINARY**

Status  
Code **S0**

Drawing  
Title  
**STRUCTURAL  
REINFORCEMENT PLAN  
BAY 3 AND 4**

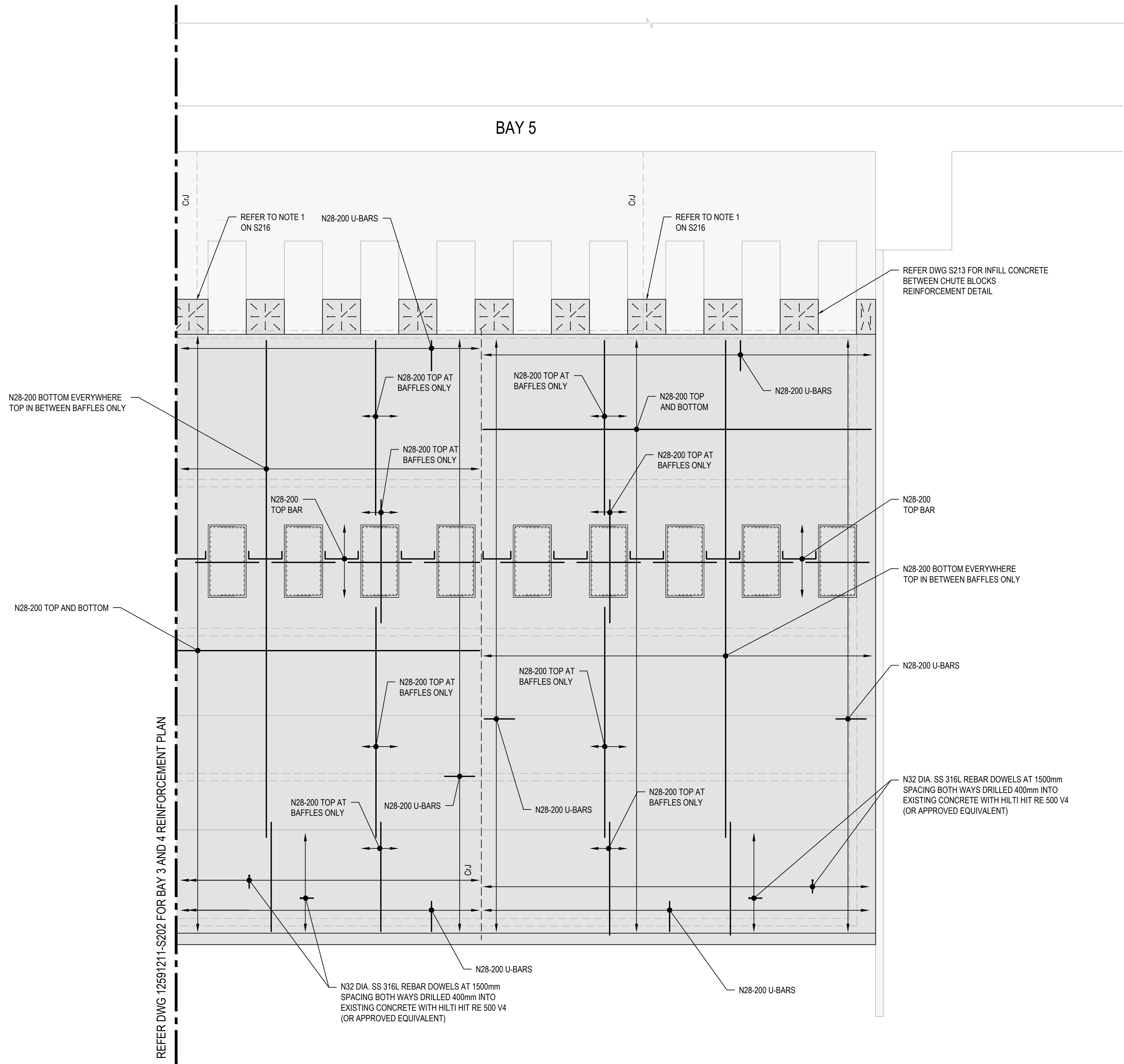
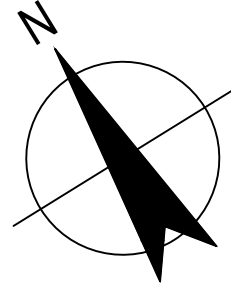
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Drawing No.  
**12591211-S202**

Size  
**A1**

Rev  
**B**





REINFORCEMENT PLAN BAY 5  
SCALE 1:100  
ANCHORS NOT SHOWN FOR CLARITY

NOT FOR CONSTRUCTION

Rev	Description	Checked	Approved	Date
B	ISSUED FOR TENDER	LN	RF	09.11.23
A	90% DESIGN	LN	RF	24.08.23
Author	L. ESGUERRA	Drafting Check	B. SACAYANAN	
Designer	J. GALLUP	Design Check	L. NEUMANN	



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STRENGTHENING PROJECT

Status  
PRELIMINARY

Status  
Code

S0

Drawing  
Title  
STRUCTURAL  
REINFORCEMENT PLAN  
BAY 5

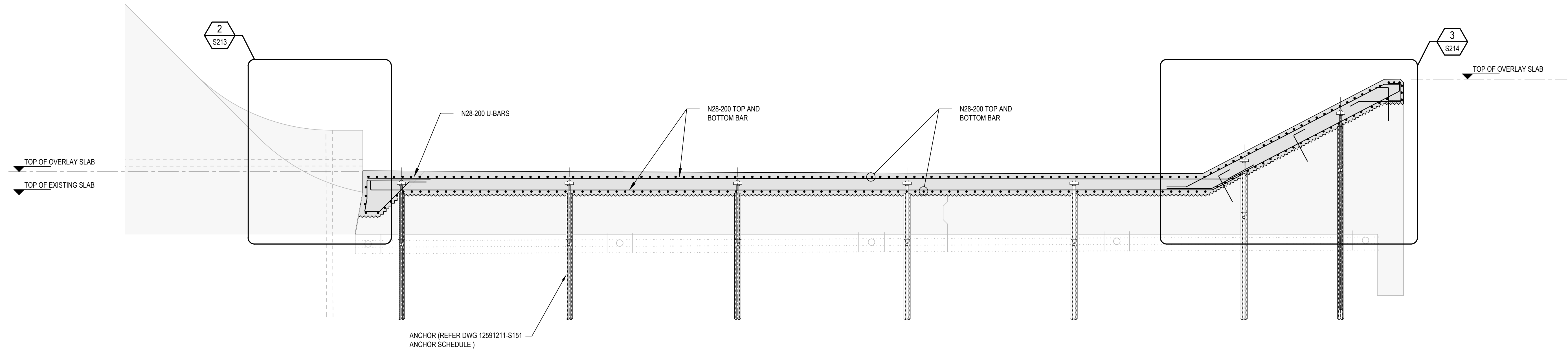
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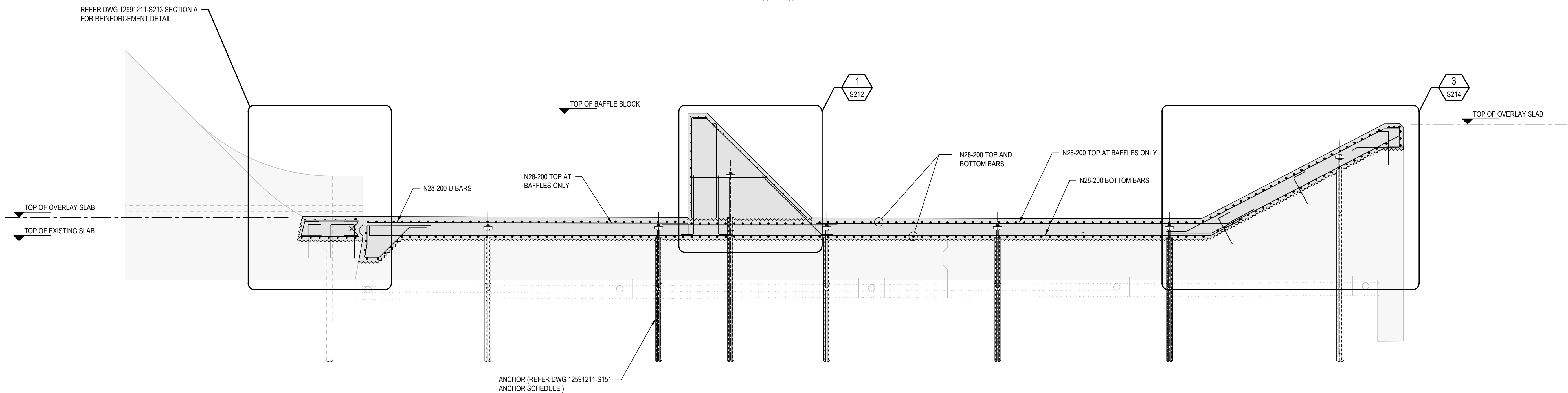
Rev  
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DISSIPATOR REINFORCEMENT TYPICAL SECTION  
AT CHUTE BLOCKS

SCALE 1:50

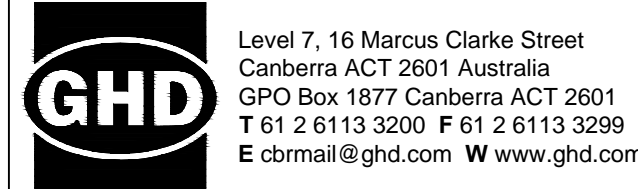
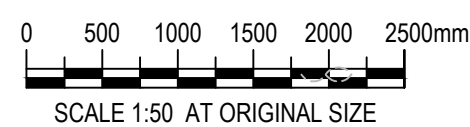


DISSIPATOR REINFORCEMENT TYPICAL SECTION  
BETWEEN CHUTE BLOCKS

SCALE 1:50

NOT FOR CONSTRUCTION

B	ISSUED FOR TENDER	LN	RF	09.11.23
A	90% DESIGN	LN	RF	24.08.23
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Author	E.PAZ	Drafting Check	B.SACAYANAN	
Designer	J.GALLUP	Design Check	L.NEUMANN	



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Project  
SCRIVENER DAM DISSIPATOR  
STRENGTHENING PROJECT

Status  
PRELIMINARY

Status  
Code  
S0

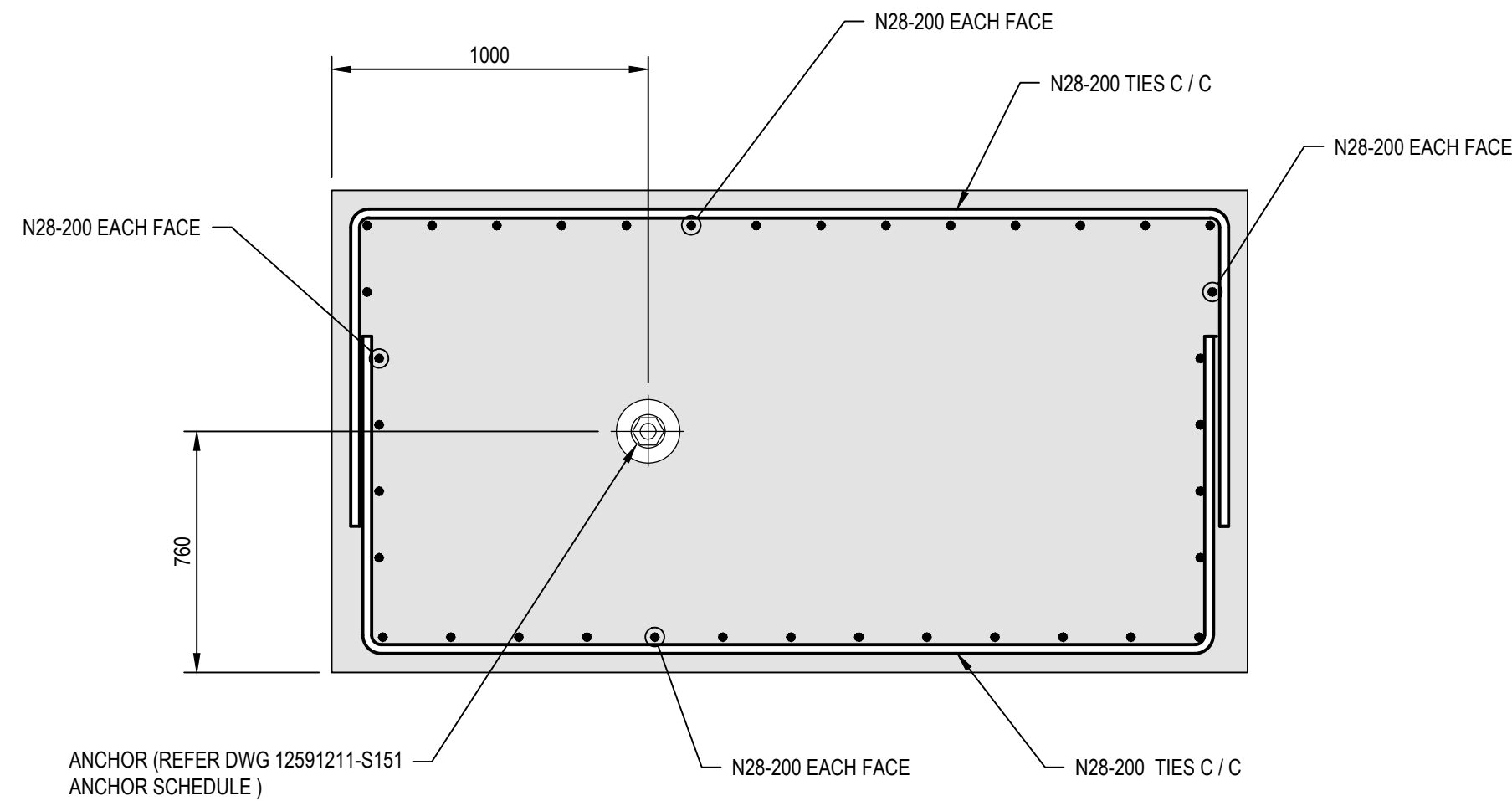
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STRUCTURAL  
REINFORCEMENT TYPICAL SECTION

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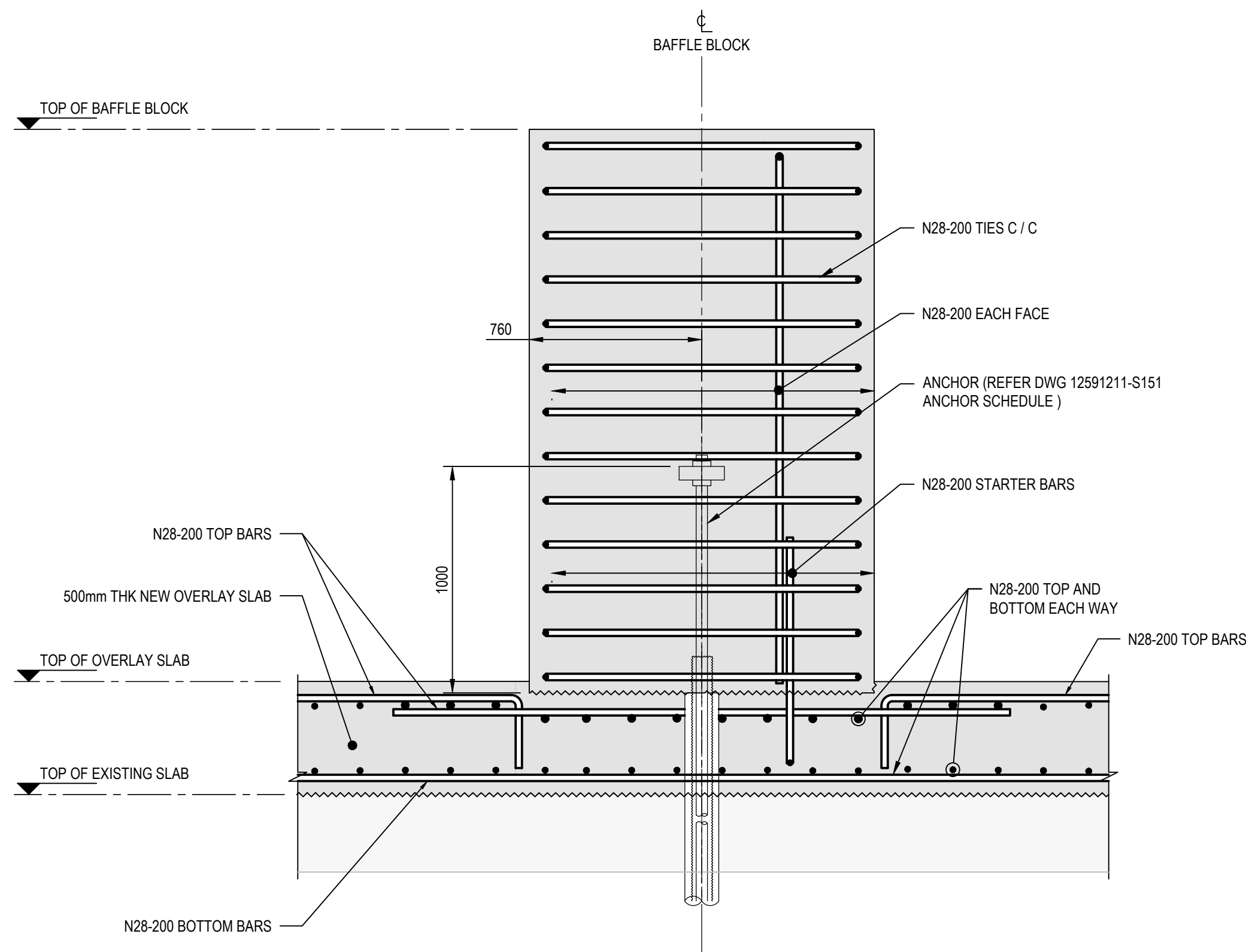
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12591211-S211

Size  
A1  
Rev  
B

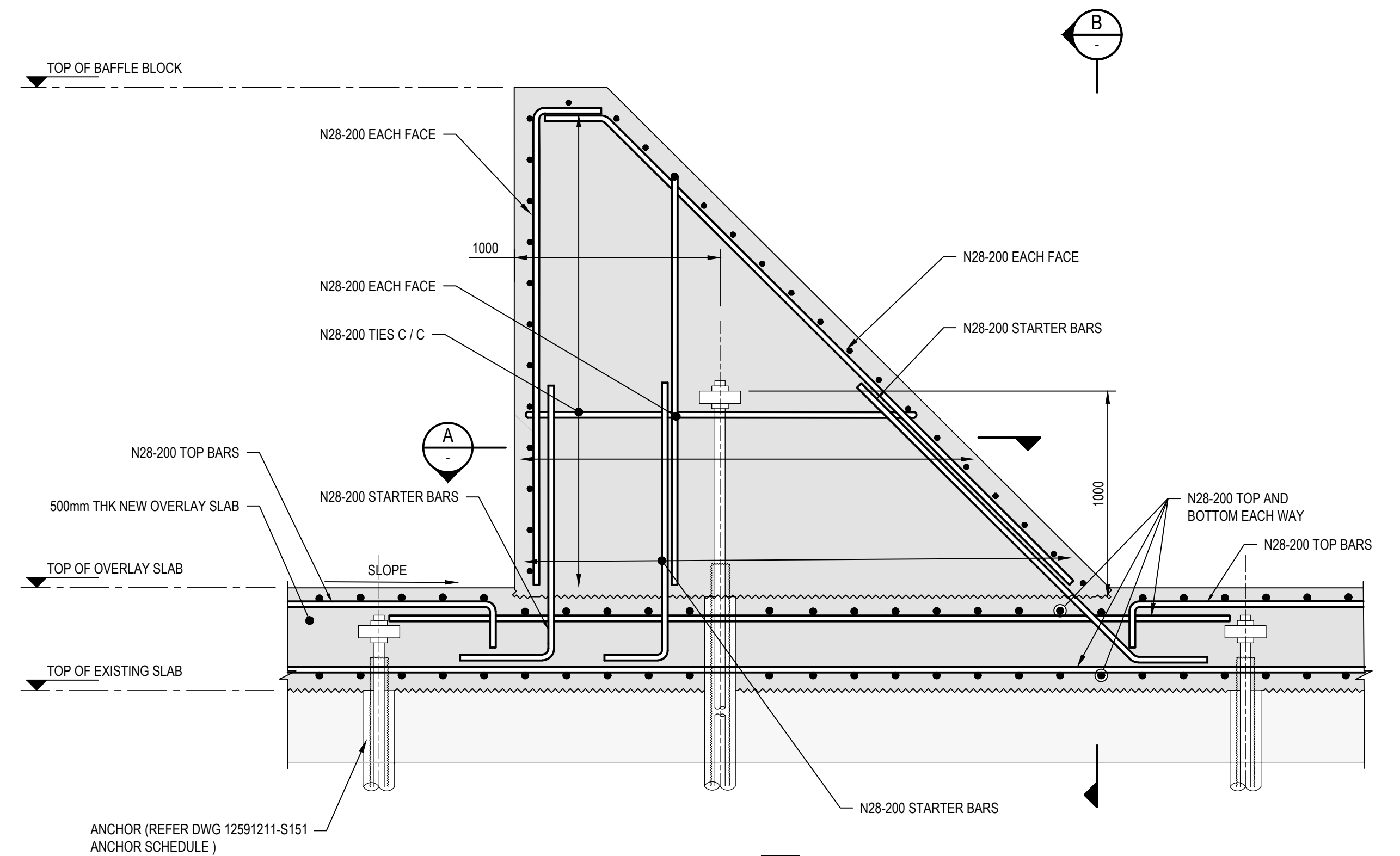




**A SECTION**  
SCALE: 1:20



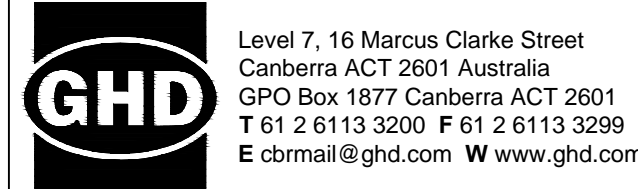
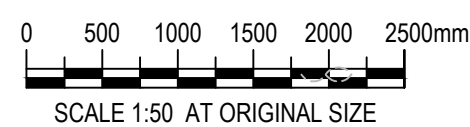
**B SECTION**  
SCALE: 1:20



**1 DETAIL**  
S211 SCALE 1:20

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B ISSUED FOR TENDER LN RF 09.11.23			
A 90% DESIGN LN RF 24.08.23			
Rev	Description	Checked	Approved Date
Author	E.PAZ	Drafting Check	B.SACAYANAN
Designer	J.GALLUP	Design Check	L.NEUMANN



Project No.  
12591211

Client  
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NATIONAL CAPITAL AUTHORITY**

Project  
**SCRIVENER DAM DISSIPATOR  
STRENGTHENING PROJECT**

Status  
**PRELIMINARY**

Status  
Code **S0**

Drawing  
Title  
**STRUCTURAL  
REINFORCEMENT TYPICAL SECTION  
BAFFLE BLOCK**

Trim No.  
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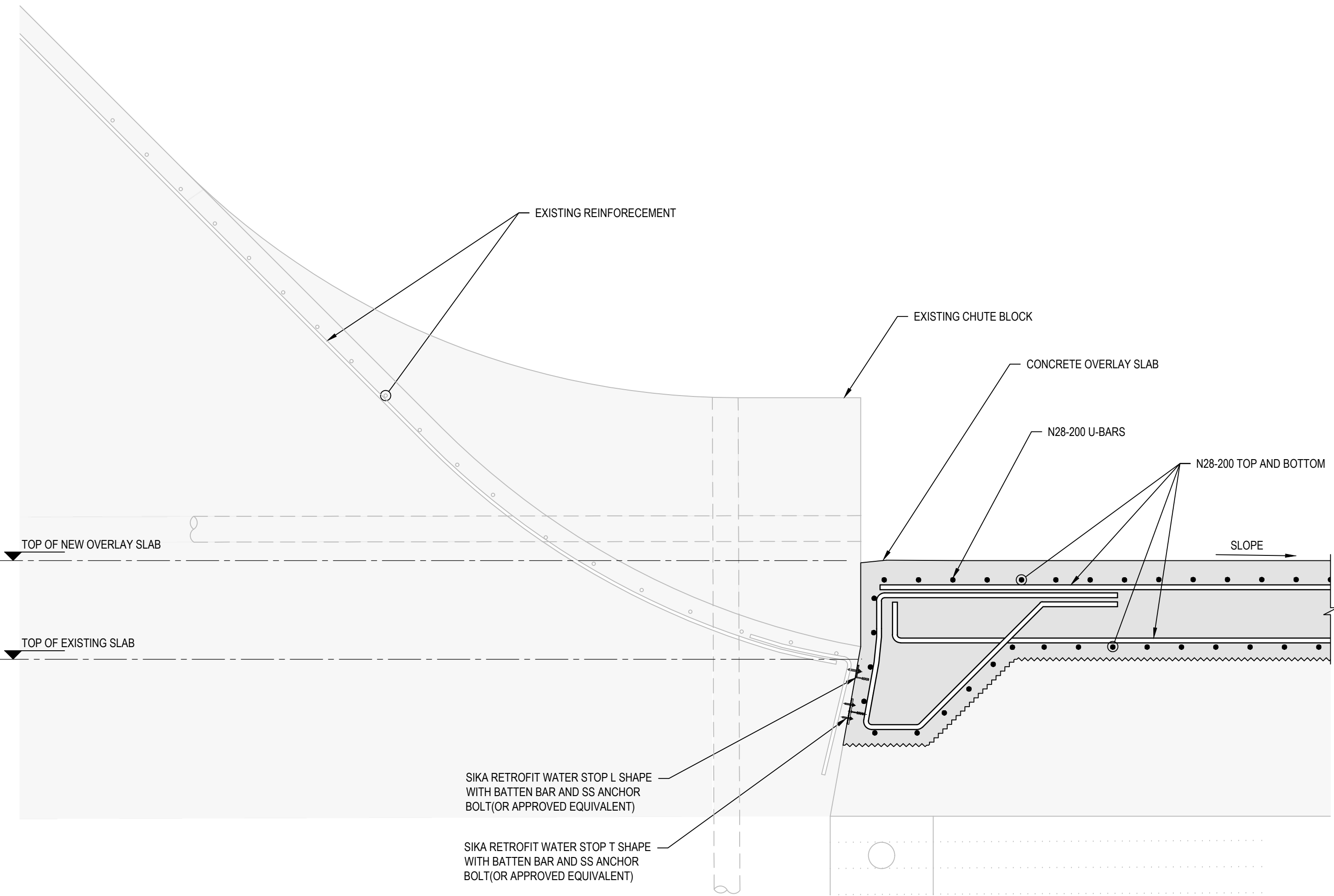
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Size  
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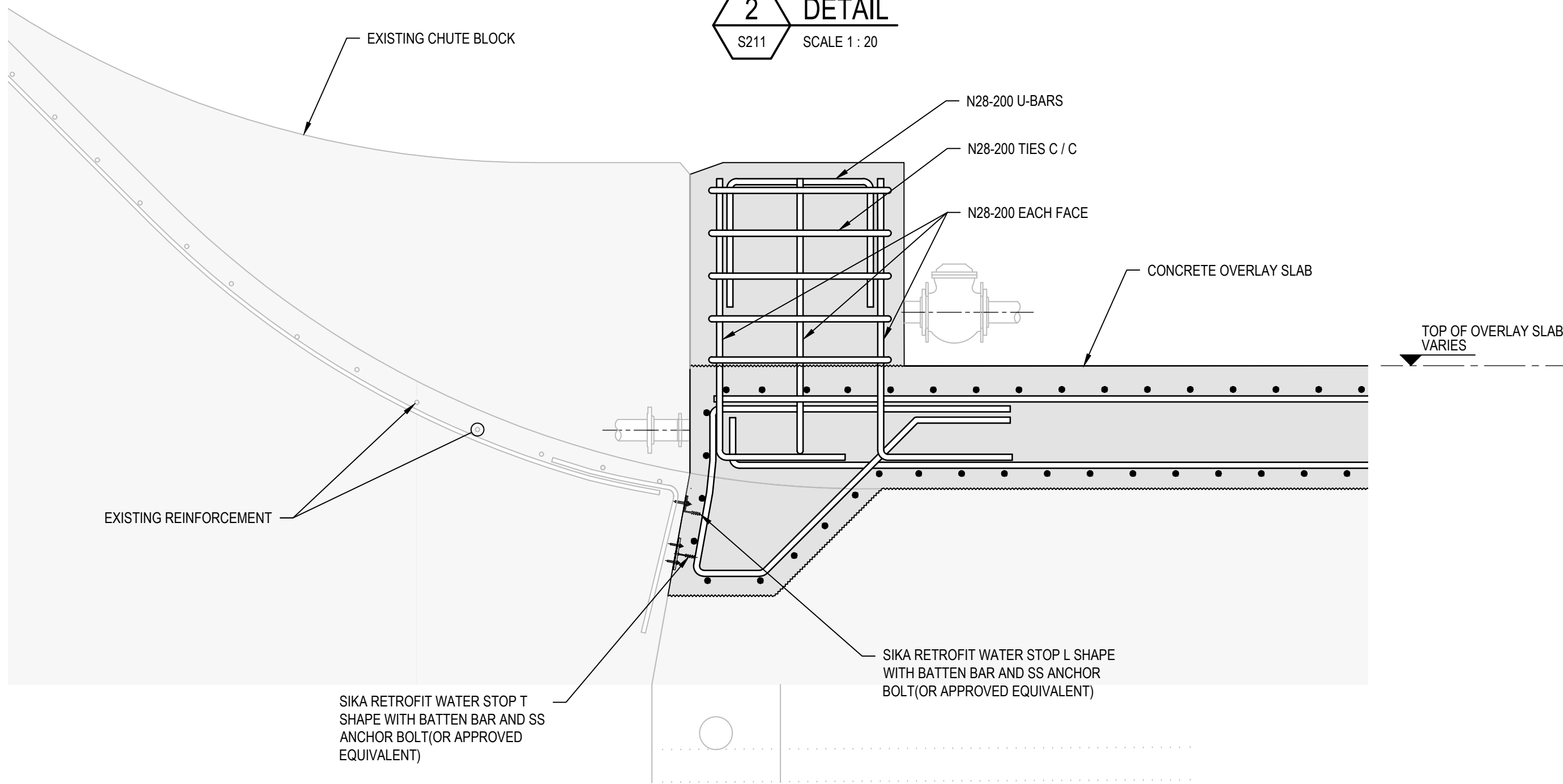
Rev  
**B**



- NOTES:
1. PROVIDE MINIMUM 30mm CLEARANCE BETWEEN STAINLESS STEEL BARS AND DISSIMILAR METALS. WHEN CLEARANCE IS NOT POSSIBLE PROVIDE ISOLATION
  2. MAINTAIN 100 CLEARANCE BETWEEN CRJ'S OF DAM AND DOWEL INSTALLATION

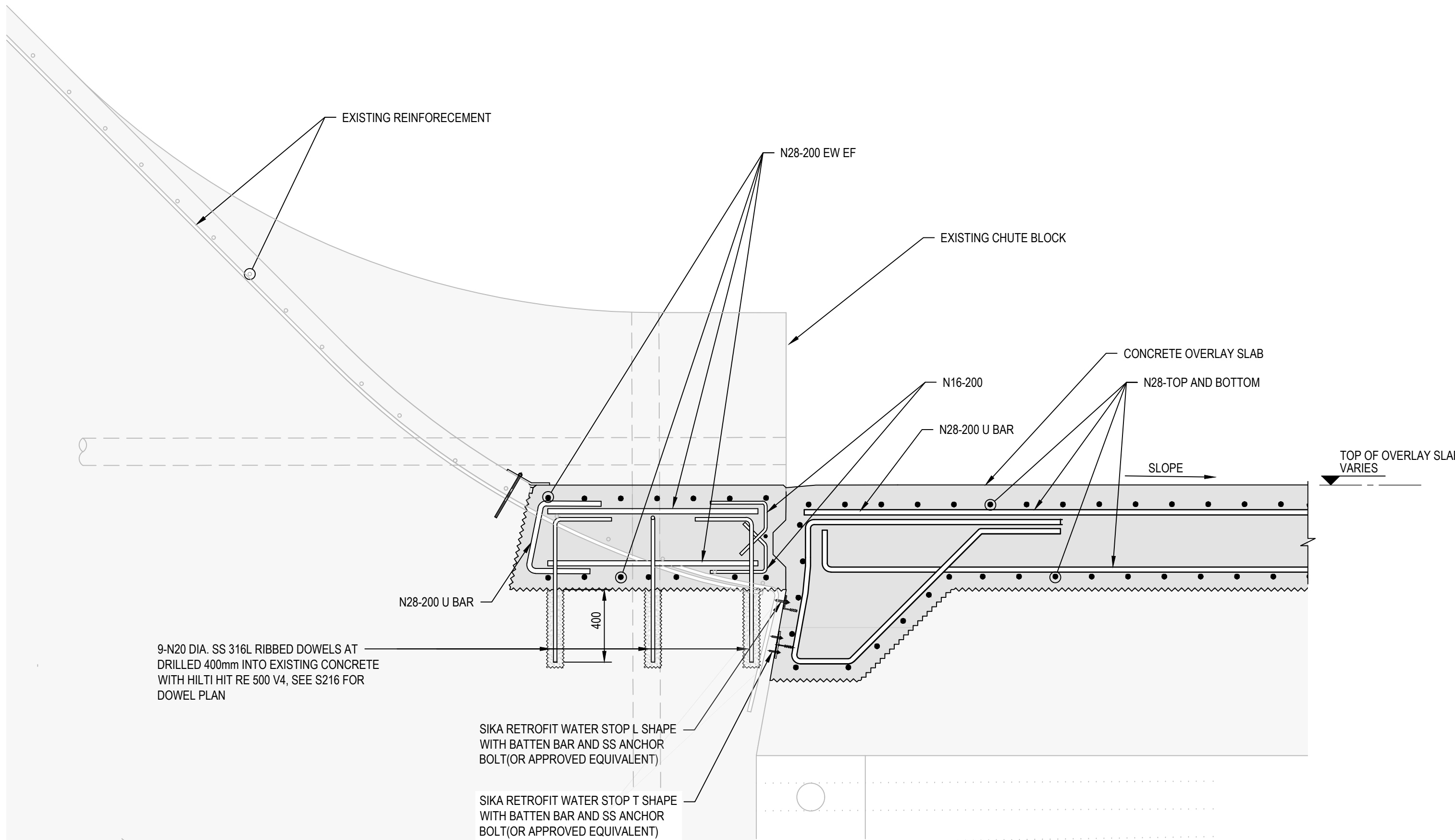


2 DETAIL  
S211 SCALE 1 : 20

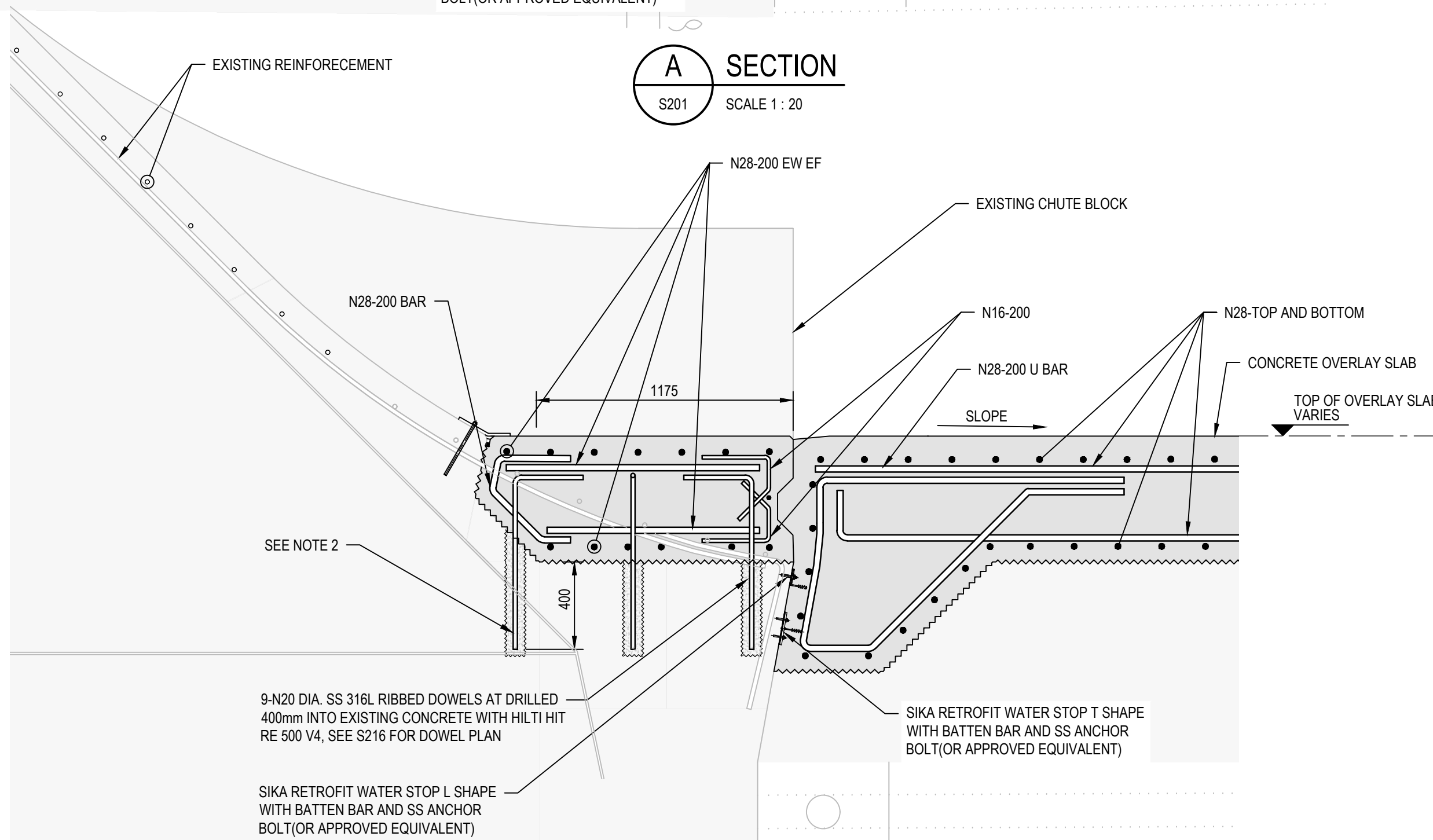


C SECTION  
S202 SCALE 1 : 20

PIPE NOT SHOWN FOR CLARITY



A SECTION  
S201 SCALE 1 : 20



B SECTION  
S201 SCALE 1 : 20

NOT FOR CONSTRUCTION

Rev	Description	Checked	Approved	Date
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Project  
SCRIVENER DAM DISSIPATOR  
STRENGTHENING PROJECT

Status  
PRELIMINARY

Status  
Code

50

Drawing Title  
STRUCTURAL  
REINFORCEMENT TYPICAL  
UPSTREAM SECTIONS

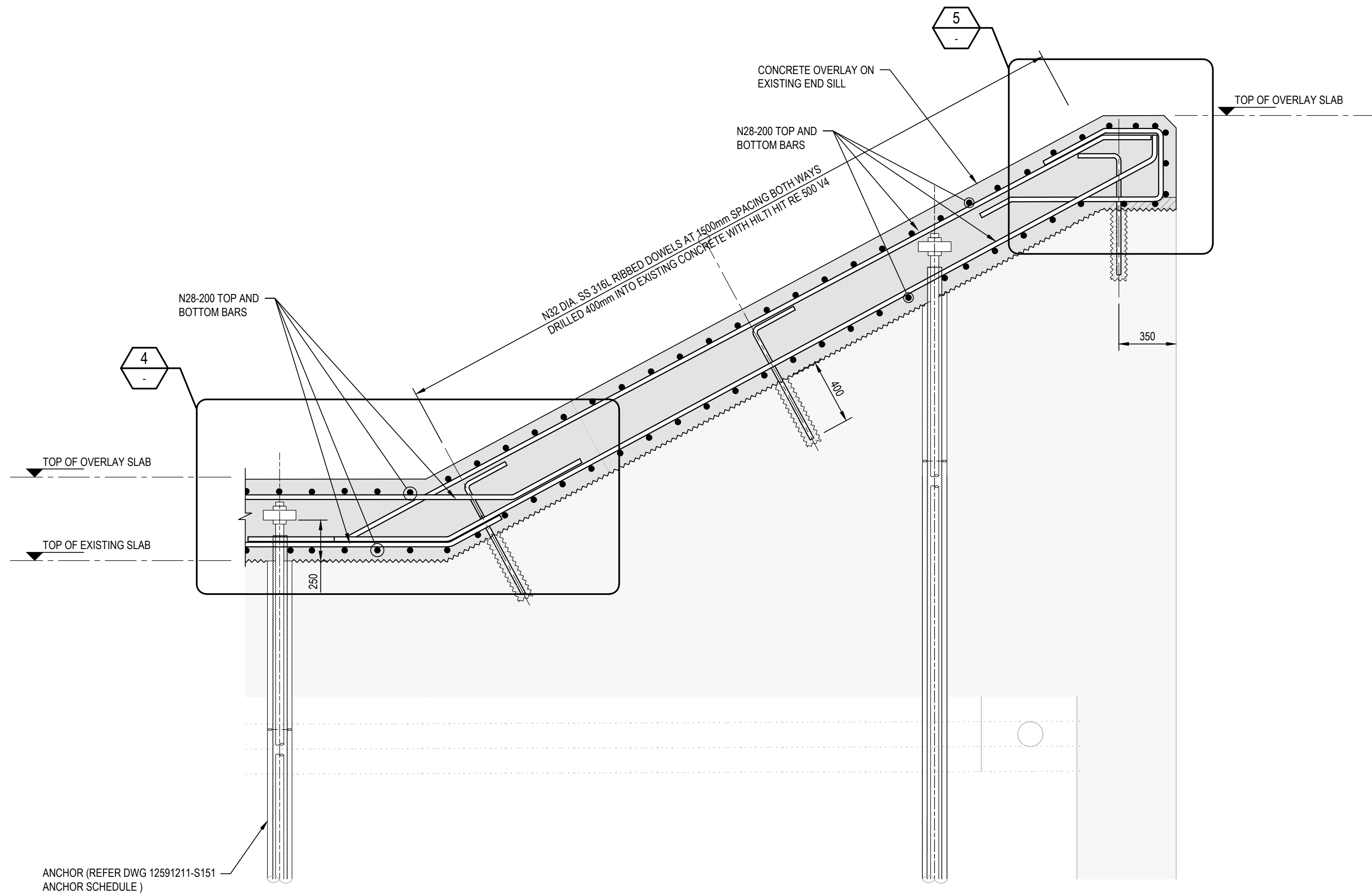
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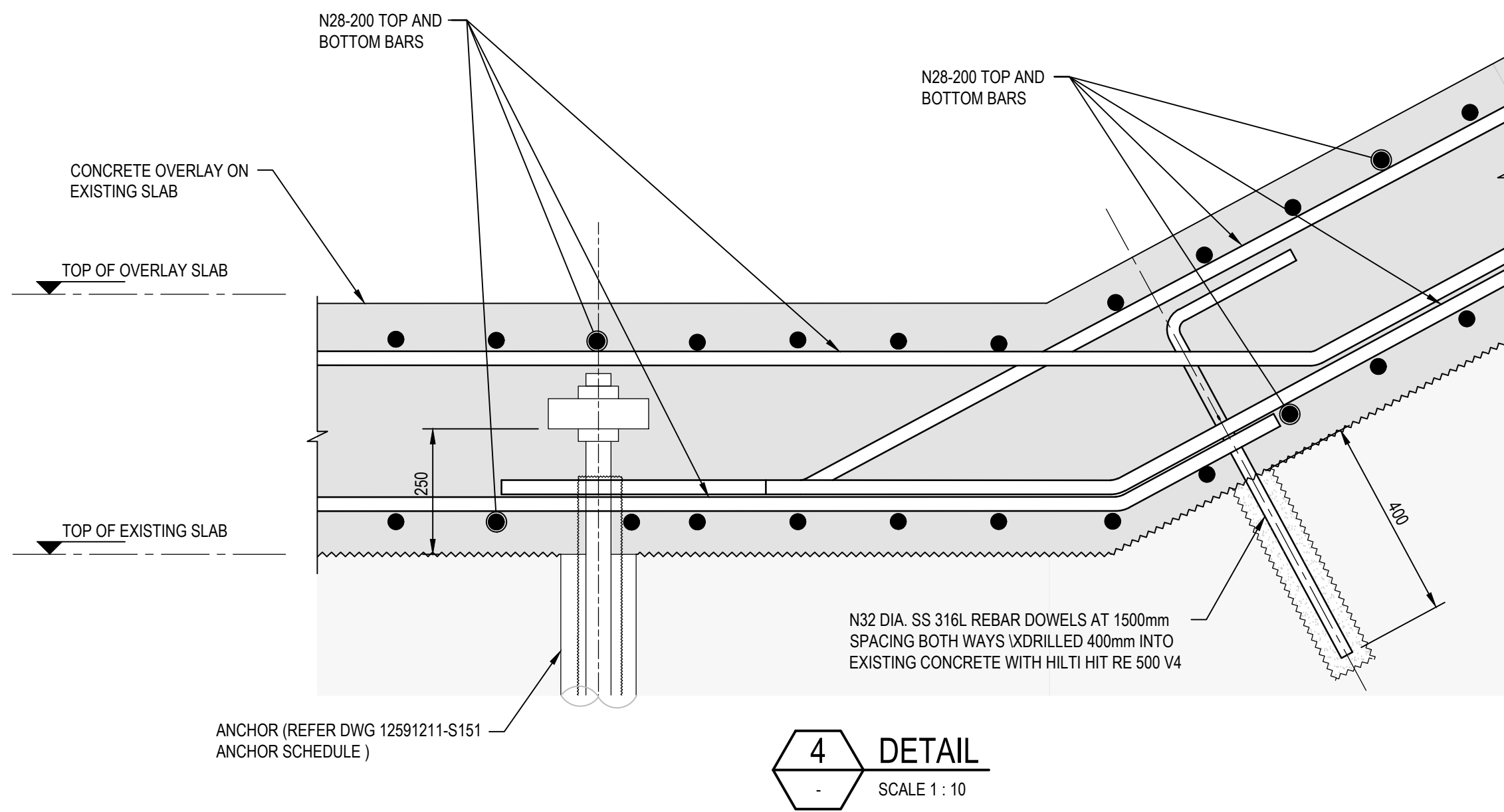
Size  
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Rev  
B

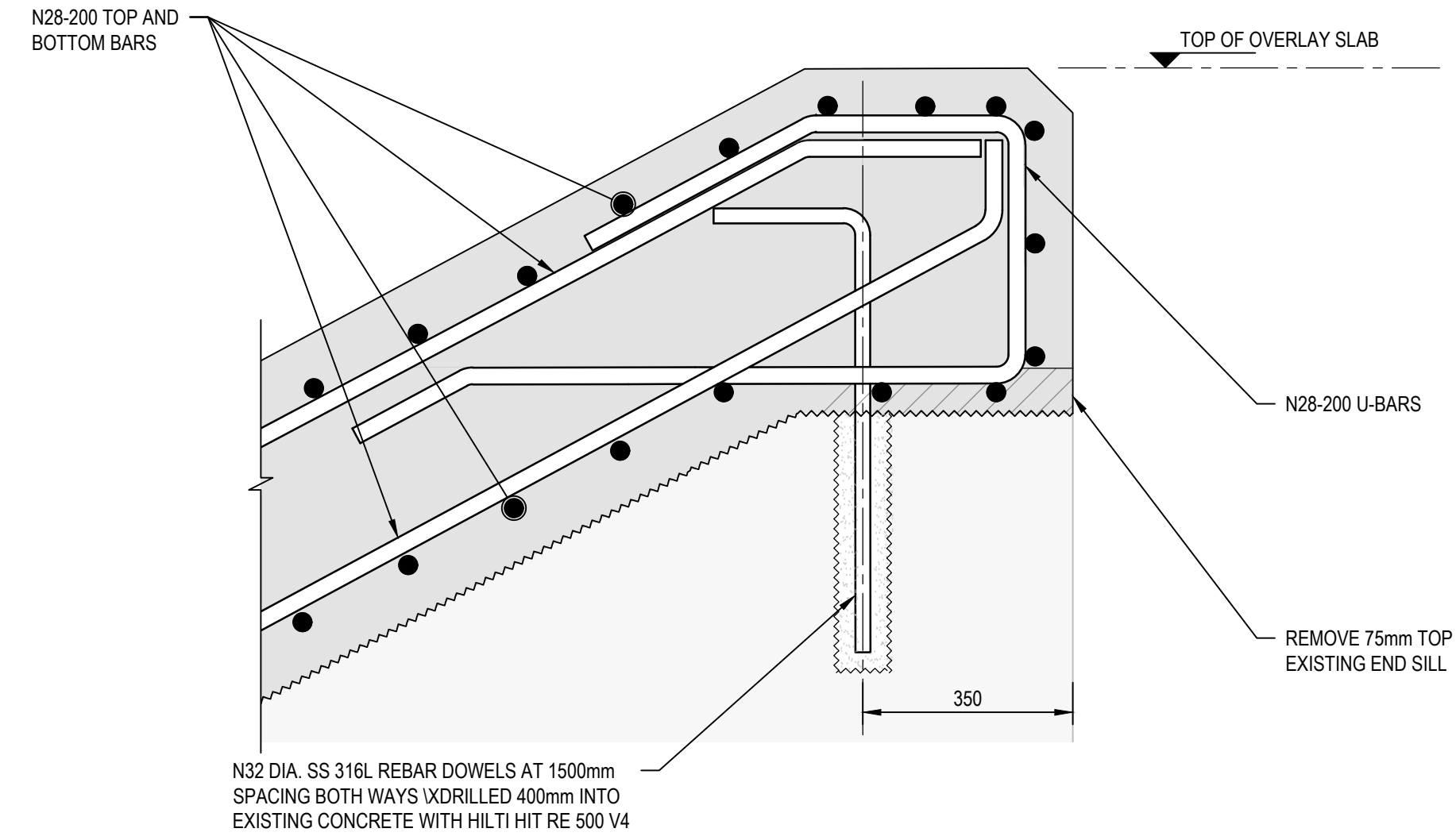




3 DETAIL  
S211 SCALE 1 : 20



4 DETAIL  
SCALE 1 : 10

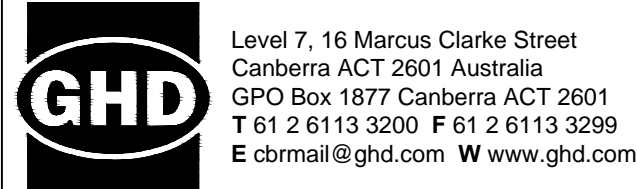


5 DETAIL  
SCALE 1 : 10

- NOTES:**
- PROVIDE MINIMUM 30mm CLEARANCE BETWEEN STAINLESS STEEL BARS AND DISSIMILAR METALS. WHEN CLEARANCE IS NOT POSSIBLE PROVIDE ISOLATION

NOT FOR CONSTRUCTION

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Project No.  
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Project  
SCRIVENER DAM DISSIPATOR  
STRENGTHENING PROJECT

Status  
PRELIMINARY

Drawing Title  
STRUCTURAL  
REINFORCEMENT END SILL DETAILS

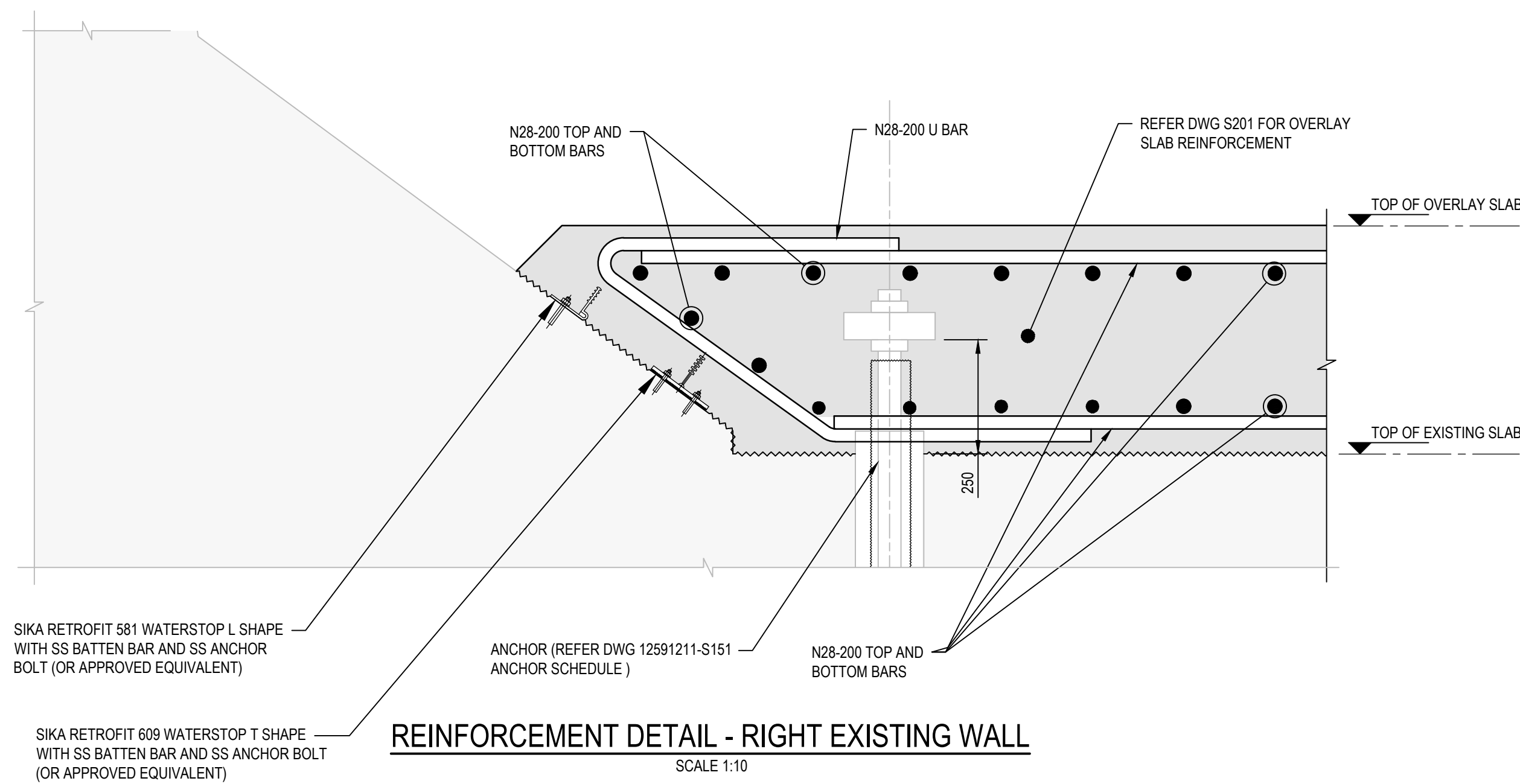
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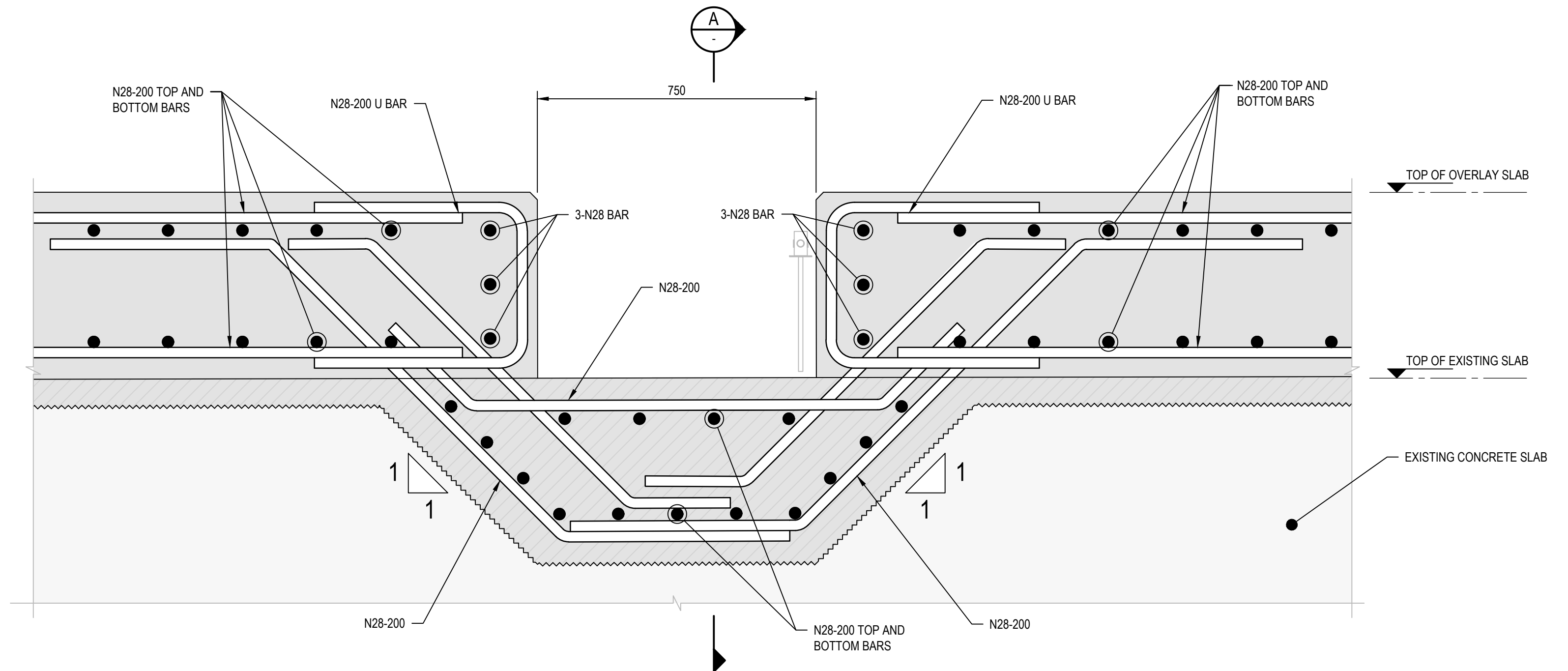
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Rev  
B

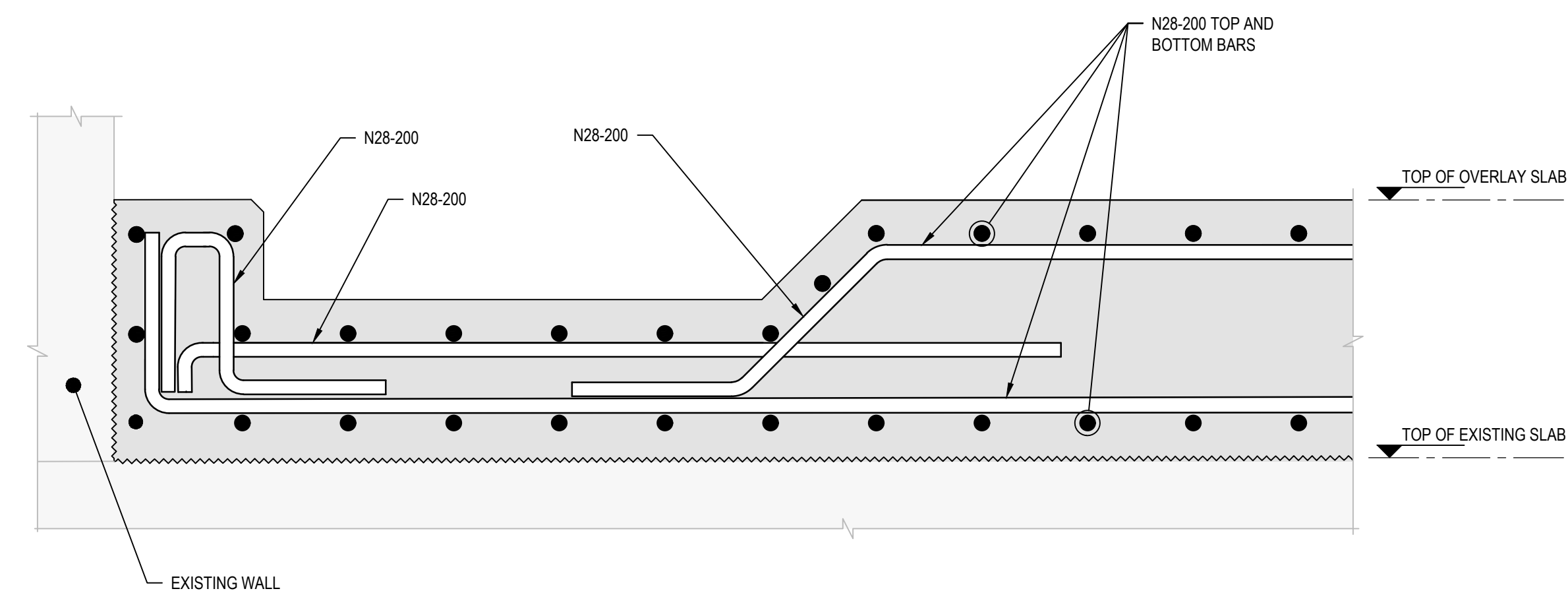




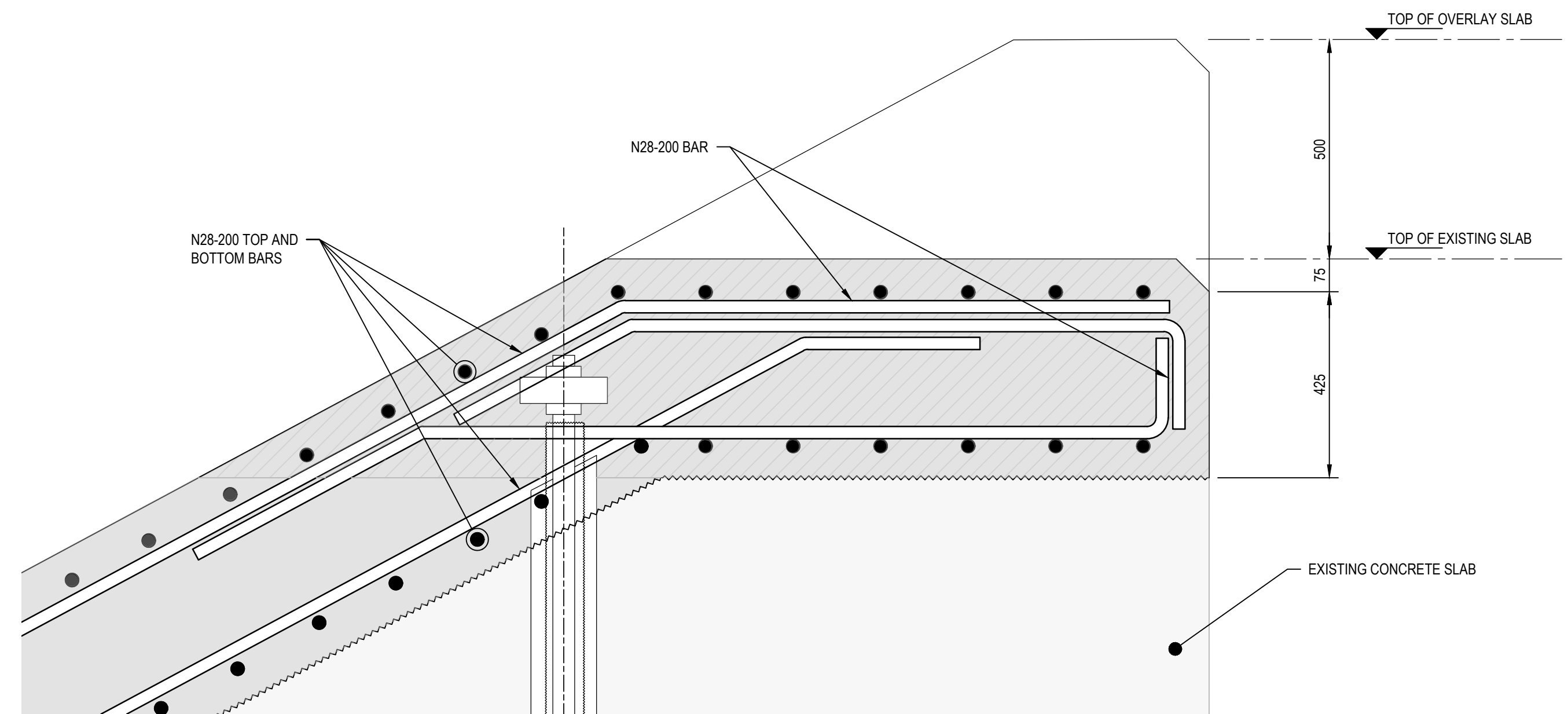
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REINFORCEMENT DETAIL - SLOT ELEVATION



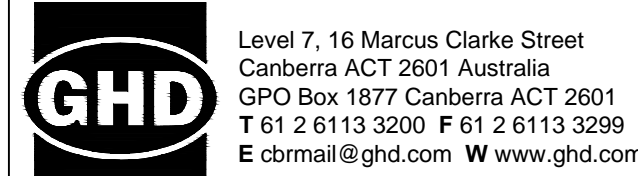
REINFORCEMENT DETAIL - SUMP SECTION



SECTION A

NOT FOR CONSTRUCTION

Rev	Description	Checked	Approved	Date
B	ISSUED FOR TENDER	LN	RF	09.11.23
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STRENGTHENING PROJECT

Status  
PRELIMINARY

Drawing Title  
STRUCTURAL  
REINFORCEMENT MISCELLANEOUS  
DETAILS

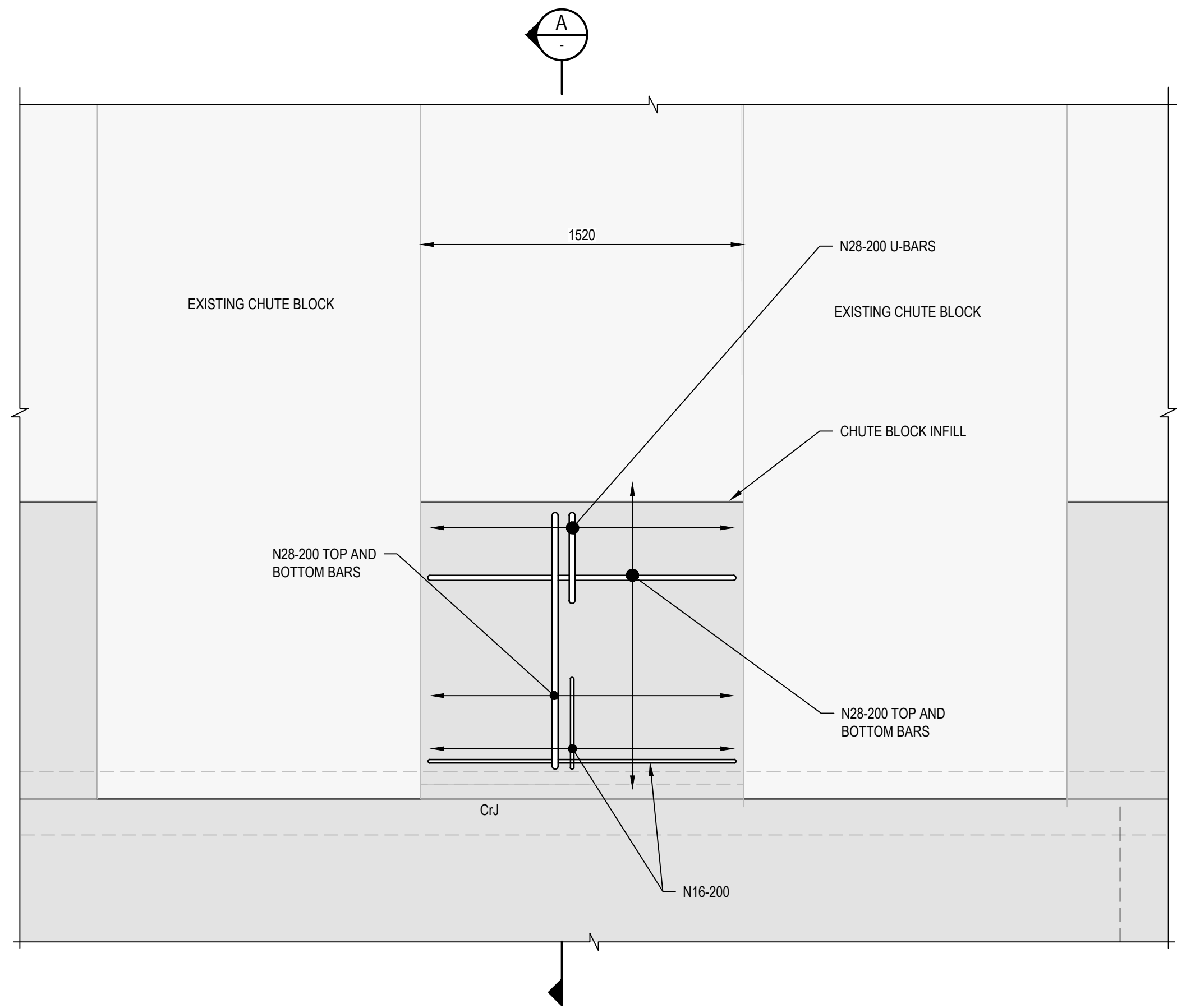
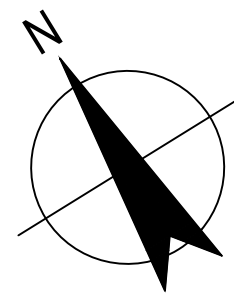
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Drawing No.  
12591211-S215

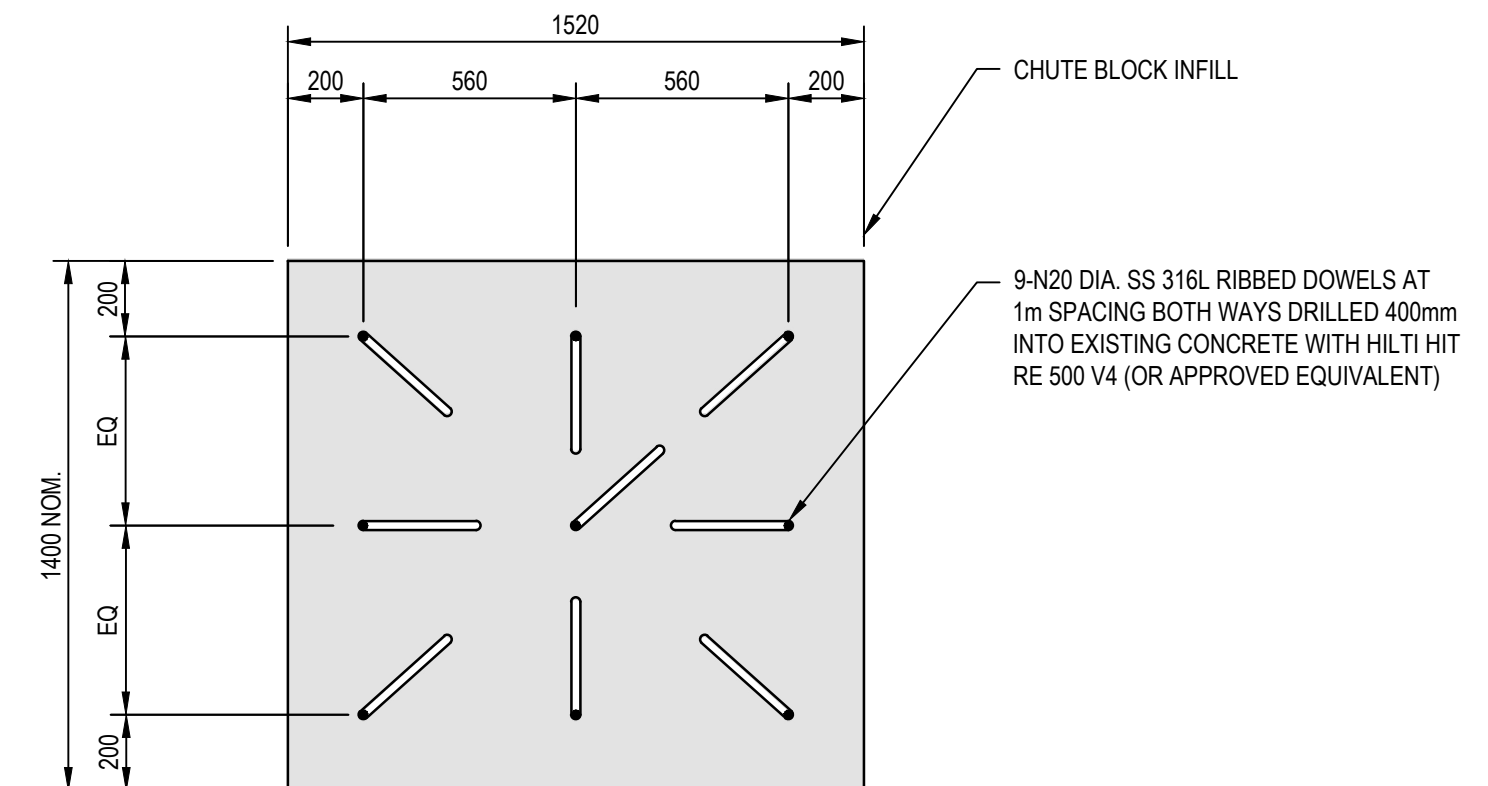
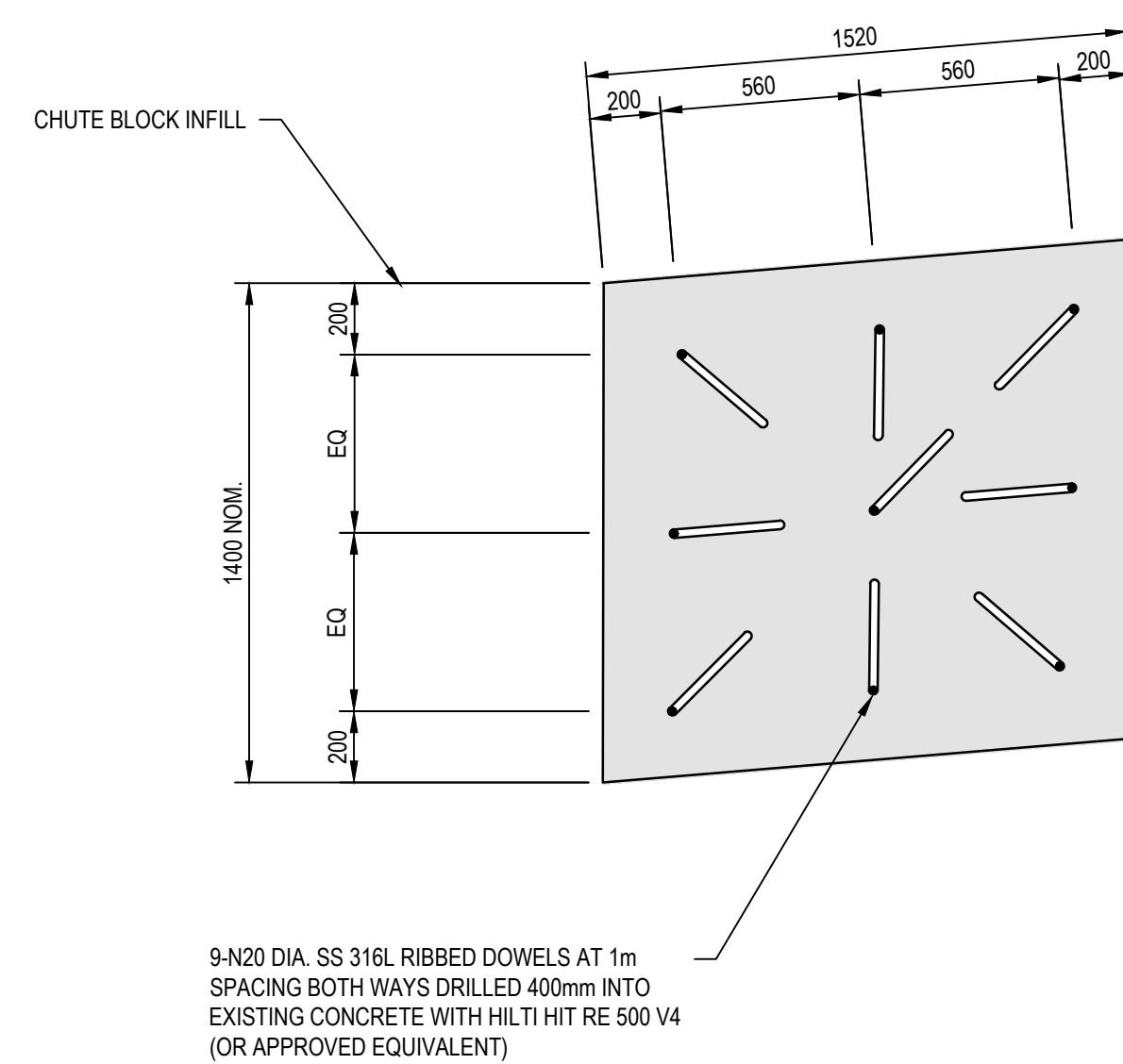
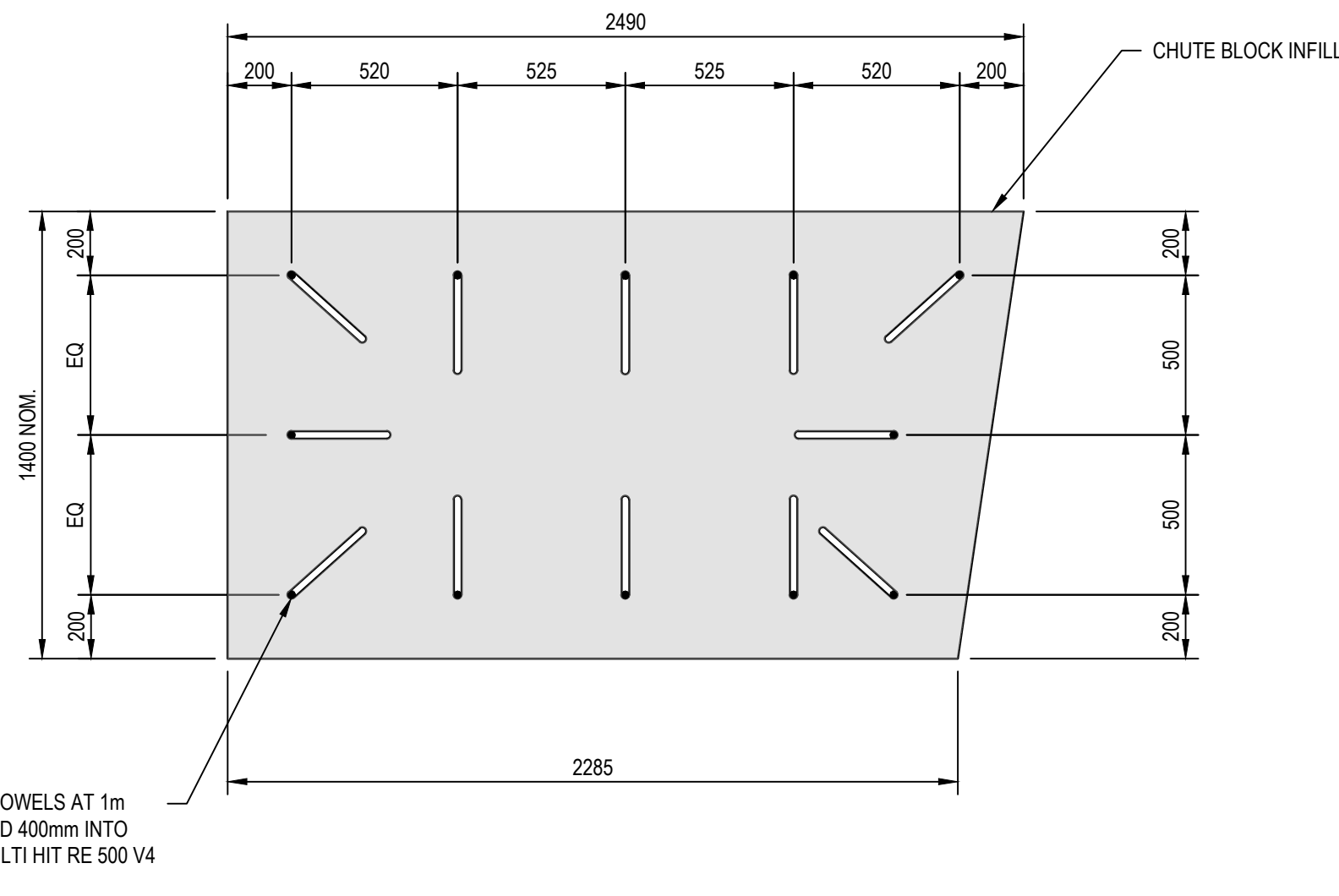
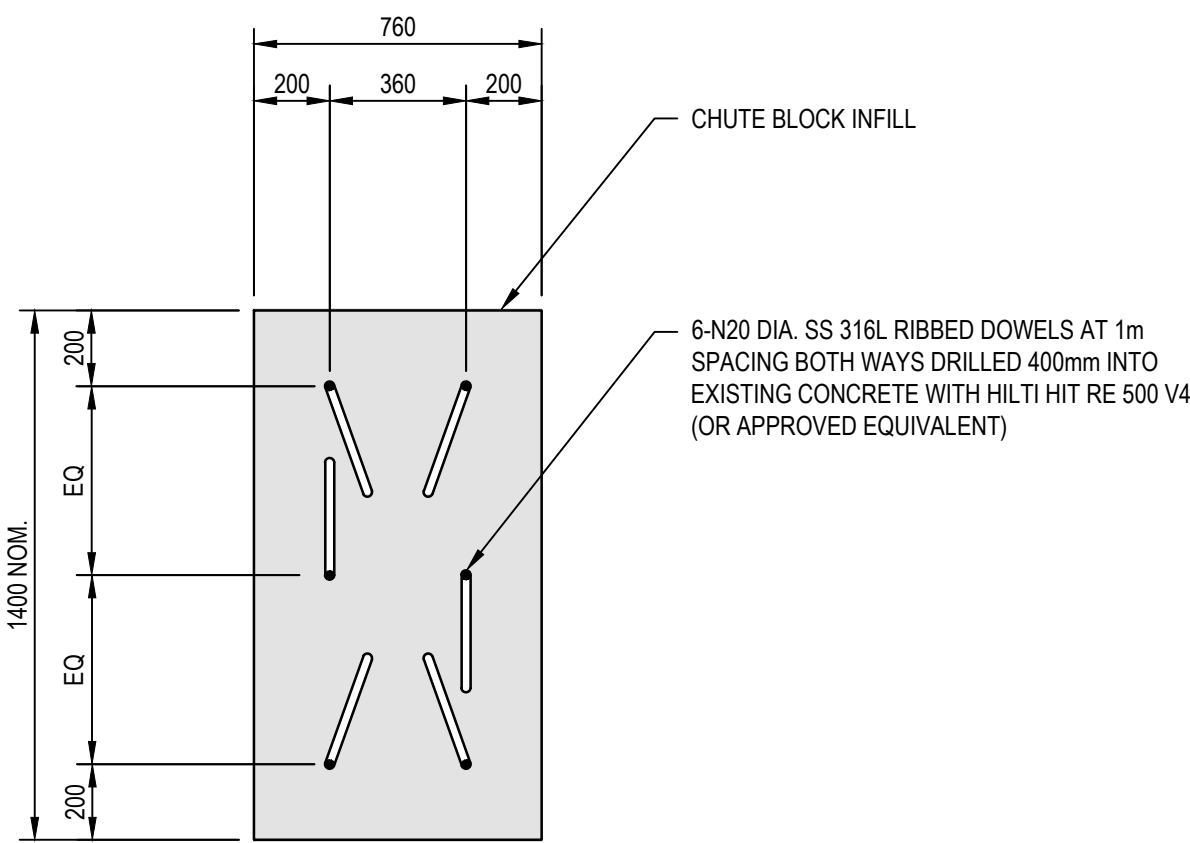
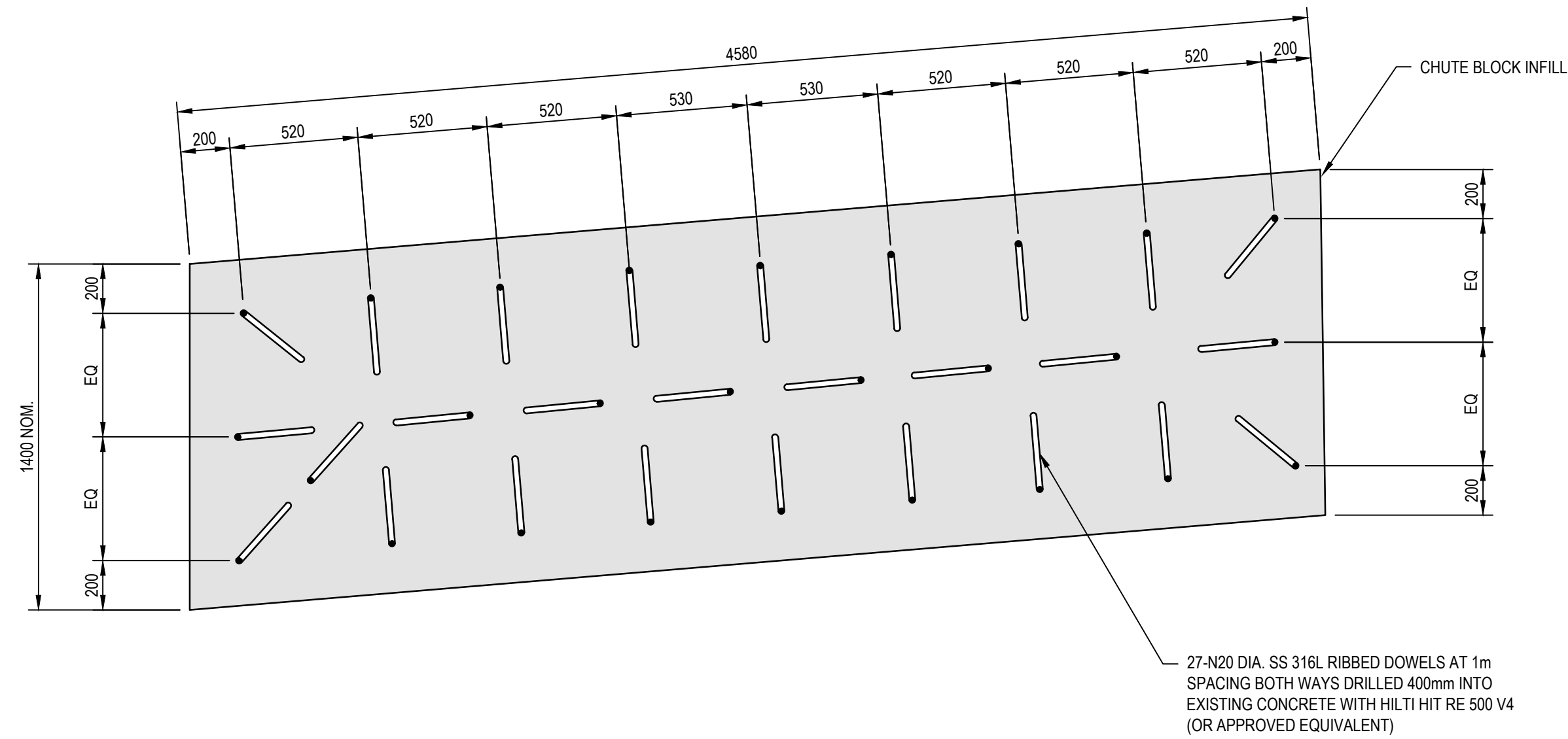
Size  
A1

Rev  
B





**1** **DETAIL**  
S201 SCALE 1 : 20  
SS DOWELS NOT SHOWN FOR CARITY

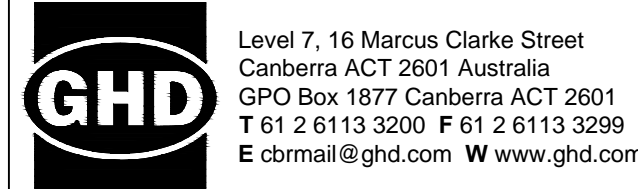


- NOTES:**
1. MAINTAIN 100 CLEARANCE BETWEEN CrJ's OF DAM AND DOWEL INSTALLATION
  2. PROVIDE MINIMUM 30mm CLEARANCE BETWEEN STAINLESS STEEL BARS AND DISSIMILAR METALS. WHEN CLEARANCE IS NOT POSSIBLE PROVIDE ISOLATION

NOT FOR CONSTRUCTION

**TYPICAL CHUTE BLOCKS INFILL DOWEL PLAN**  
SCALE 1:20  
STEEL REINFORCEMENT NOT SHOWN FOR CLARITY

Rev	Description	Checked	Approved	Date
B	ISSUED FOR TENDER	LN	RF	09.11.23
A	90% DESIGN	LN	RF	24.08.23
Author	E.PAZ	Drafting Check	B.SACAYANAN	
Designer	J.GALLUP	Design Check	L.NEUMANN	



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Project No.  
12591211

Client  
**AUSTRALIAN GOVERNMENT  
NATIONAL CAPITAL AUTHORITY**  
Project  
**SCRIVENER DAM DISSIPATOR  
STRENGTHENING PROJECT**

Status  
**PRELIMINARY**

Drawing Title  
**STRUCTURAL  
REINFORCEMENT TYPICAL SECTION  
UPSTREAM DETAIL**

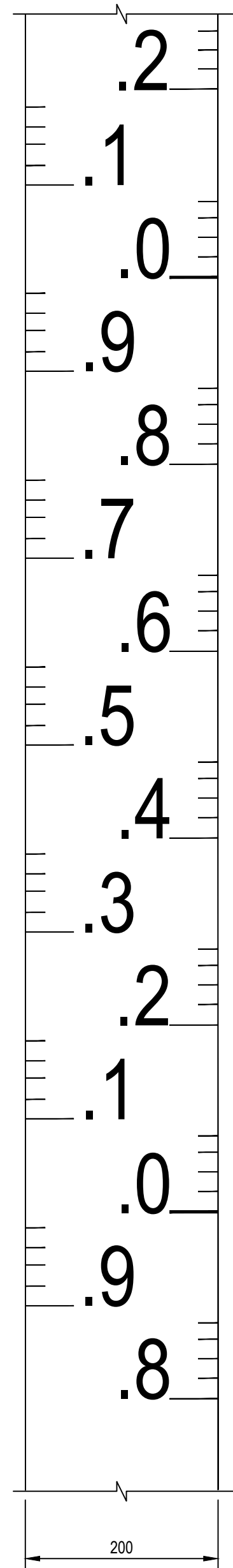
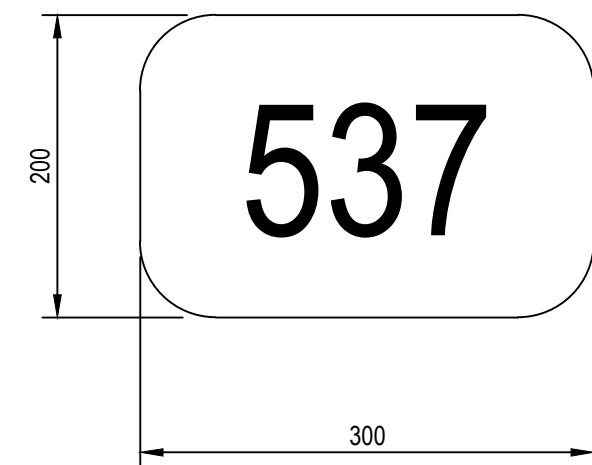
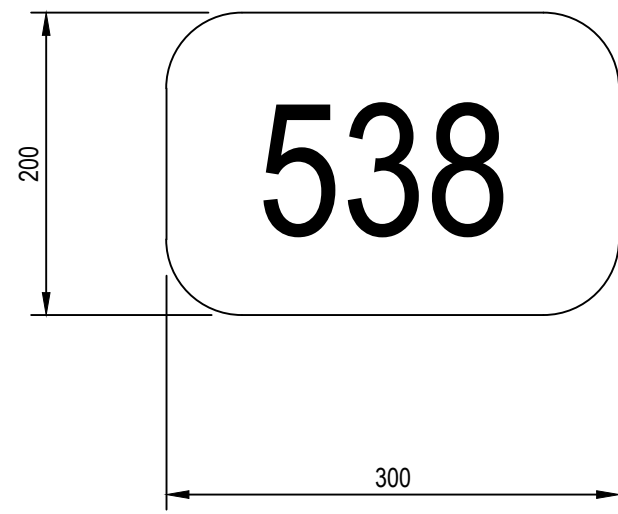
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Status  
Code  
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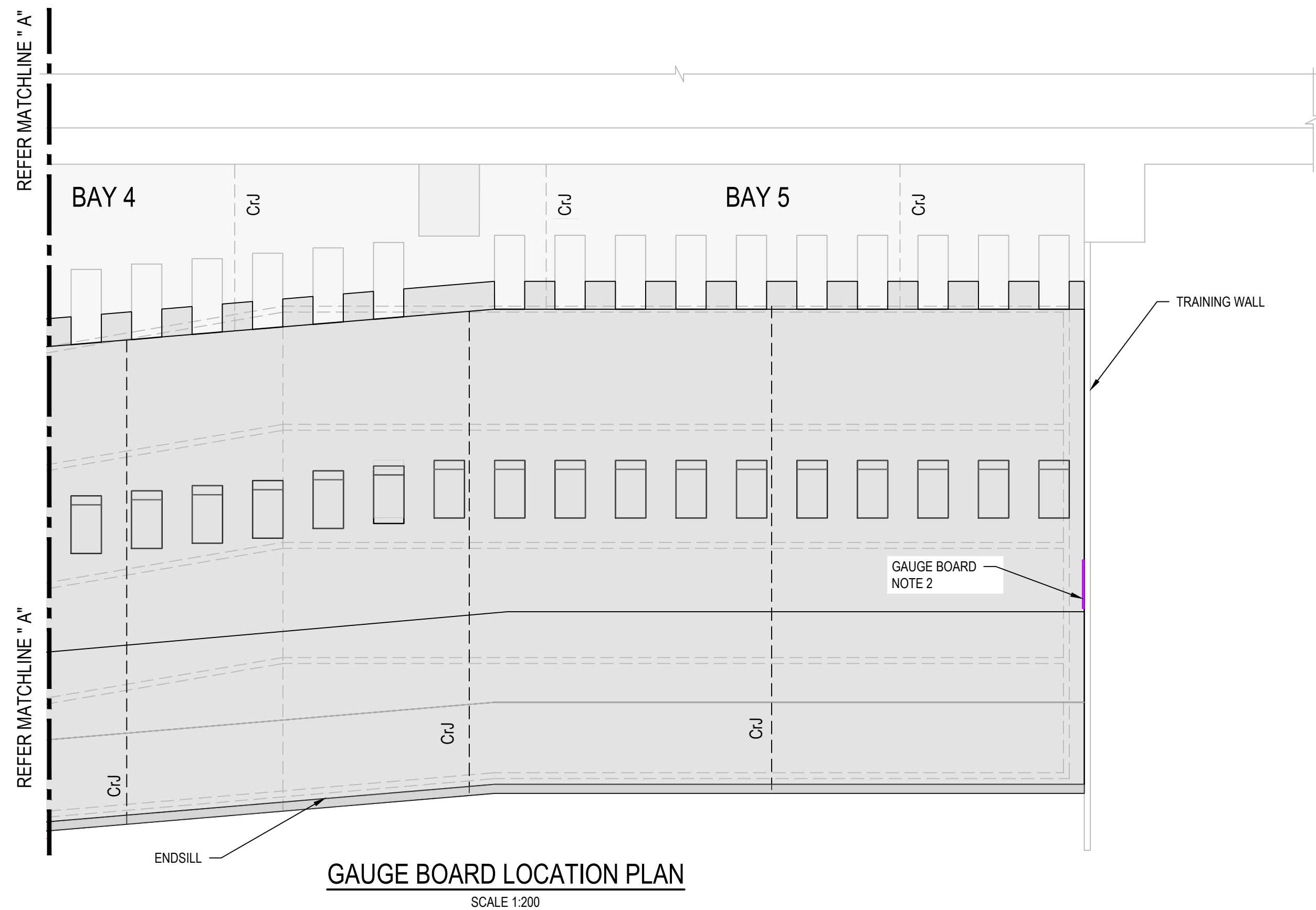
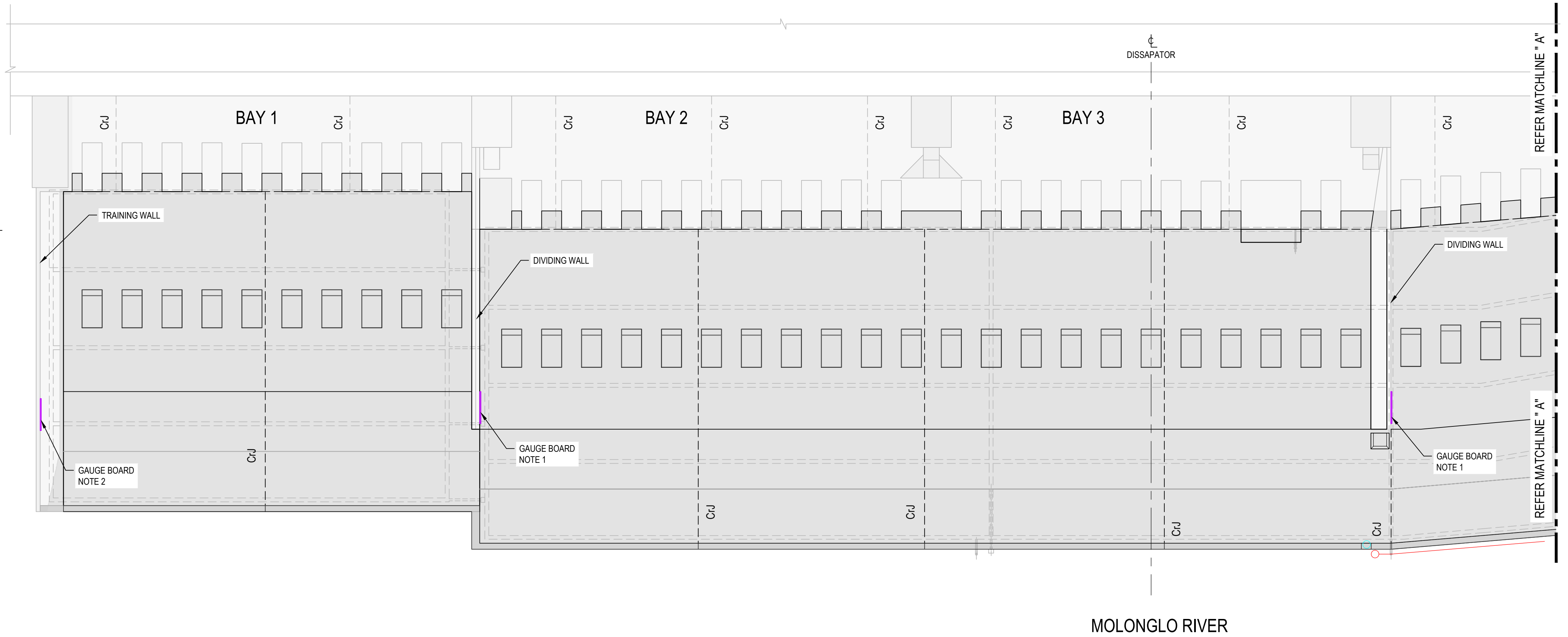
Drawing No.  
**12591211-S216**

Size  
**A1**  
Rev  
**B**





STAFF GAUGE DETAIL  
SCALE 1:5



Gauge Board Location Plan  
SCALE 1:200

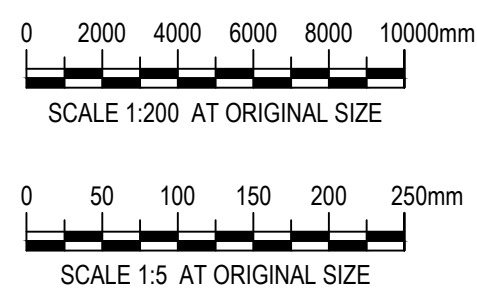
LEGEND:

- GAUGE BOARD
- RELOCATED WATER LEVEL SENSOR
- NEW WATER LEVEL SENSOR

NOTE:  
1) PROVIDE 5M STAFF GAUGE COMPLETE WITH NUMBER PLATES. INSTALL STAFF GAUGES SUCH THAT THE BOARD STARTS AT 538 MAHD  
2) PROVIDE 6M STAFF GAUGE COMPLETE WITH NUMBER PLATES. INSTALL STAFF GAUGES SUCH THAT THE BOARD STARTS AT 542 MAHD  
3) STAFF GAUGE TO BE SECURED TO CONCRETE USING 5 MM DIA S.STL CONCRETE SCREWS, 45MM MIN EMBED

NOT FOR CONSTRUCTION

B	ISSUED FOR TENDER	LN	RF	09.11.23
A	90% DETAIL DESIGN	LN	RF	24.08.23
Rev	Description	Checked	Approved	Date
Author	E.PAZ	Drafting Check	B.SACAYANAN	
Designer	D.KHOUDAIR	Design Check	L.NEUMANN	



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Project No.  
12591211

Client  
AUSTRALIAN GOVERNMENT  
NATIONAL CAPITAL AUTHORITY

Project  
SCRIVENER DAM DISSIPATOR  
STRENGTHENING PROJECT

Status  
PRELIMINARY

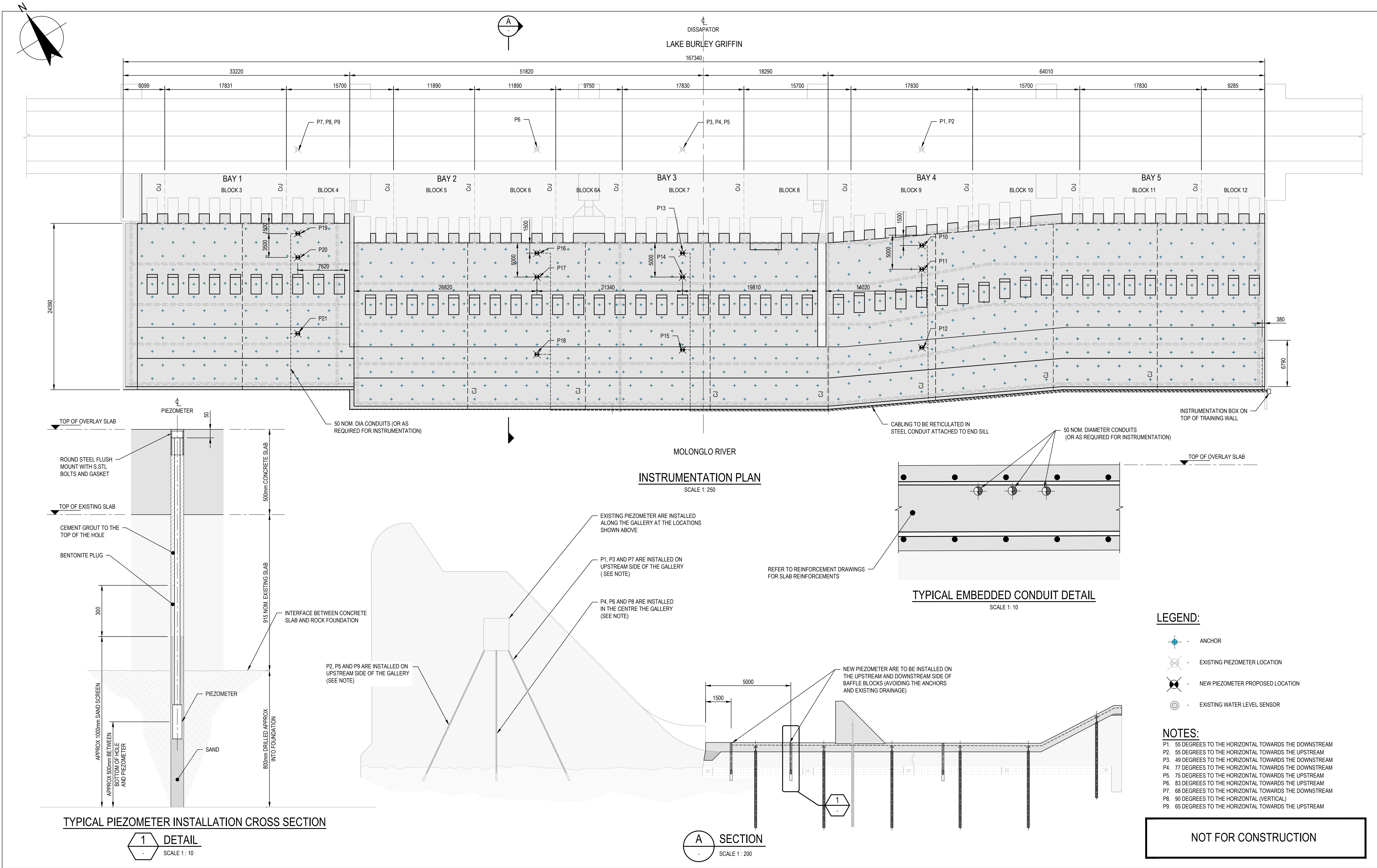
Drawing Title  
STRUCTURAL  
DISSIPATOR UPGRADE  
GAUGE BOARD DETAILS

Trim No.  
536716

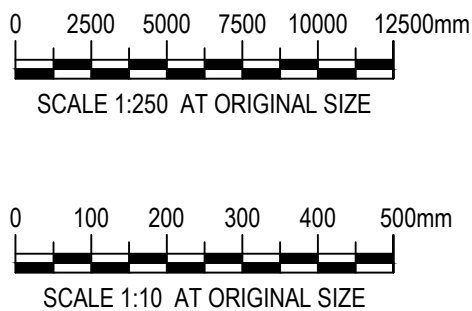
Drawing No.  
12591211-S301

Rev  
B





B ISSUED FOR TENDER				LN	RF	09.11.23
A 90% DESIGN				LN	RF	24.08.23
Rev	Description	Checked	Approved	Date		
Author	E.PAZ	Drafting Check	B.SACAYANAN			
Designer	J.GALLUP	Design Check	L.NEUMANN			



**GHD**  
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