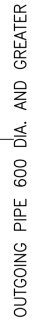
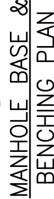
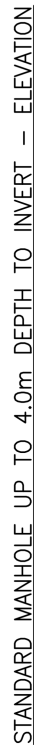




1. MANHOLES SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THIS DRAWING AND SECTION 4.3.10 OF THE SWCP AND IN COMPLIANCE WITH MANUFACTURERS SPECIFICATION.
2. MANHOLE RISER DIAMETER IS TO ALLOW FOR A MINIMUM CURVE RADIUS BETWEEN THE INLET AND OUTLET PIPES OF THREE TIMES THE INTERNAL DIAMETER OF THE OUTLET PIPE.
3. PRECAST LID ADJUSTMENT RINGS TO BE INSTALLED TO MANUFACTURER'S SPECIFICATION.
4. FOR FLEXIBLE PIPELINES, UP TO 300mm DIA, ON GRADIENTS OF 10% AND GREATER, REQUIRED BENCHING DEPTHS WITHIN THE DOWNSTREAM MANHOLE CAN BE REDUCED, BY THE REDUCTION OF THE GRADIENT IMMEDIATELY OUTSIDE THE MANHOLE. THIS MAY BE ACHIEVED BY INSTALLING A MANUFACTURED, PRE-FORMED BEND WITH VERTICAL RADIUS MIN. 8x INSIDE PIPE DIAMETER.
5. MANHOLE COVERS ON ROADS SHALL BE ALIGNED SO THAT A VEHICLE STRIKING A HINGED COVER IN A PARTIALLY OPEN POSITION SHALL PUSH THAT COVER TOWARDS ITS CLOSED POSITION.
6. REFER SWCP SECTION 4.3.10.10 FOR MANHOLE SAFETY GRILLE REQUIREMENTS AND DETAILS.

SD* Specific Design
>75° deflection requires specific design



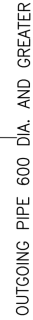
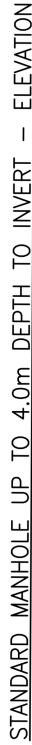
MANHOLE COVER AND RUNG ORIENTATION PLAN

A



1. MANHOLES SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THIS DRAWING AND SECTION 4.3.10 OF THE SWGP AND IN COMPLIANCE WITH MANUFACTURERS SPECIFICATION.
2. MANHOLE RISER DIAMETER IS TO ALLOW FOR A MINIMUM CURVE RADIUS BETWEEN THE INLET AND OUTLET PIPES OF THREE TIMES THE INTERNAL DIAMETER OF THE OUTLET PIPE.
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6. REFER SWGP SECTION 4.3.10.10 FOR MANHOLE SAFETY GRILLE REQUIREMENTS AND DETAILS.

SD* Specific Design
>75° deflection requires specific design



OUTGOING PIPE LESS THAN 600 DIA.
(OR WHERE DEPTH TO INVERT $\leq 1.5\text{m}$)

MANHOLE COVER AND RUNG ORIENTATION PLAN

STANDARD STORMWATER MANHOLE
SUITABLE FOR UP TO 4.0m DEPTH TO INVERT



Auckland Council
an Auckland Council Governance Unit

DRAWING SET SWCoP	SHEET 1 OF 1
DRAWING No. SW05	REV 4



MCKENZIE & CO.

CLIENT:

VINEWAY LTD

PROJECT:

DELMORE
53A, 53B & 55 RUSSELL ROAD
OREWA

TITLE:

STORMWATER
STANDARD DETAILS

SHEET 3

PURPOSE OF ISSUE:

FOR RESOURCE CONSENT

SCALE:
N.T.S

DO NOT SCALE

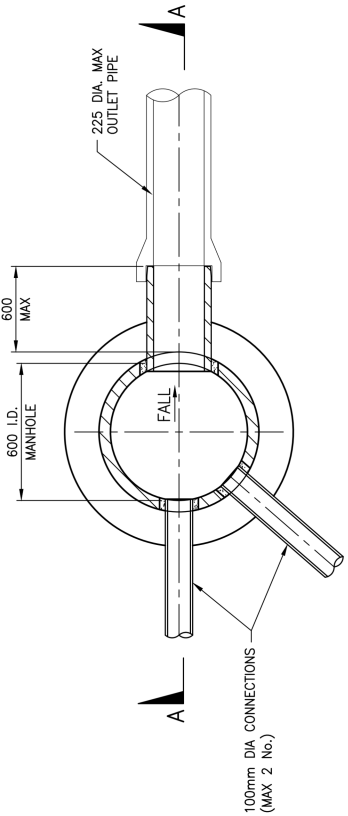
DRAWING NO:

3725-4902

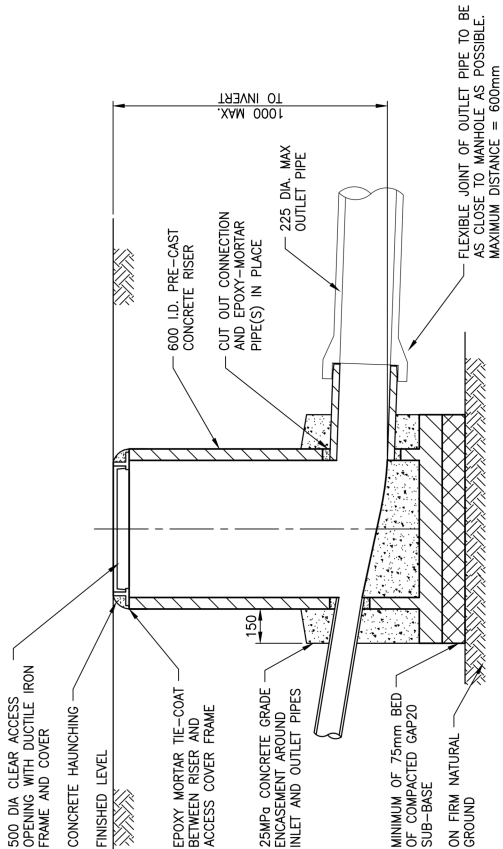
REV:

A

- NOTES:**
- NON-ACCESS CHAMBER, SUITABLE FOR OUTLET INVERT DEPTH OF LESS THAN 1000mm.
 - MAXIMUM OUTLET PIPE DIAMETER SHALL BE 225mm.
 - MAXIMUM NUMBER OF CONNECTIONS SHALL BE TWO 100mm DIA INLET CONNECTIONS PER NON-ACCESS CHAMBER.
 - ADDITIONAL CONNECTIONS REQUIRE MANHOLE.
 - BENCHING ABOVE INVERT OF OUTLET PIPE WITHIN NON-ACCESS CHAMBERS IS NOT MANDATORY.
 - REFER SWGP SECTION 4.3.10.10 FOR MANHOLE SAFETY GRILLE REQUIREMENTS AND DETAILS.



PLAN



SECTION AA

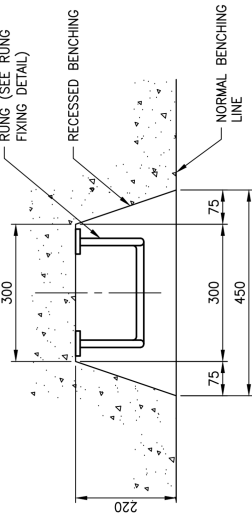
AUCKLAND COUNCIL
STORMWATER MANHOLES – NON-ACCESS CHAMBER
TYPICAL DETAIL (OUTLET INVERT DEPTH LESS THAN 1000mm)

STORMWATER CODE OF PRACTICE
STANDARD DETAILS
REVISION: 4
REV DATE: 18 DECEMBER 2023
CAD FILENAME: AC-STD-SW06_V4.0.DWG

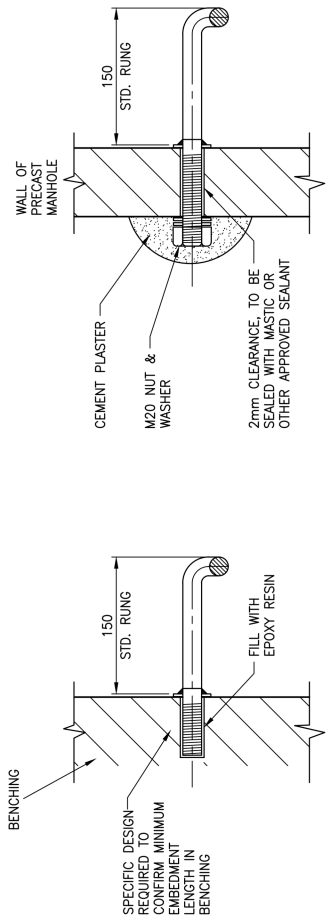
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Auckland Council	SCALE: N.T.S.	DRAWING SET
SWCoP	SWCoP	1 OF 1
DRAWING No.	DRAWING No.	REV
SW06	SW06	4

NOTES:

- RECESSED RUNGS SHALL BE USED FOR PIPE DIAMETERS > 600mm.
- RECESSED RUNGS SHALL BE LOCATED ON INSIDE CURVE OF BENCHING AND SHALL ALIGN WITH MANHOLE ACCESS RUNGS.
- ALL STEELWORK SHALL BE 'HOT DIPPED GALVANISED' AFTER FABRICATION HAS BEEN COMPLETED, WITH A MINIMUM AVERAGE COATING WEIGHT OF ZINC=610g/sqm TO AS/NZS 4680-2006.
- STEEL PARTS WITH THREADS THAT ARE CENTRIFUGED AFTER THE GALVANISATION TO MAINTAIN THE THREADING SHALL HAVE A MINIMUM AVERAGE COATING MASS FOR THOSE PARTS IS 390g/m².
- BELOW RL 4.00m OR IN SEVERE EXPOSURE CONDITIONS, PE COATED HOT DIPPED GALVANISED STEEL OR PE COATED 316 STAINLESS STEEL RUNGS SHALL BE USED.
- STAINLESS STEEL RUNGS MAY BE 16mm DIA SUBJECT TO AUCKLAND COUNCIL APPROVAL.
- OTHER RUNG SYSTEMS MAY BE UTILISED SUBJECT TO AUCKLAND COUNCIL APPROVAL.
- ALL MATERIALS TO BE USED AND INSTALLED AS PER MANUFACTURERS SPECIFICATIONS.



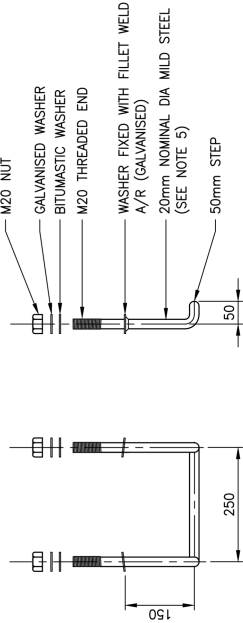
PLAN - RECESSED RUNG DETAIL



TYPICAL SECTION RUNG CONNECTION
BY EPOXY RESIN
(FOR RECESSED STEPS AND RETRO ONLY)

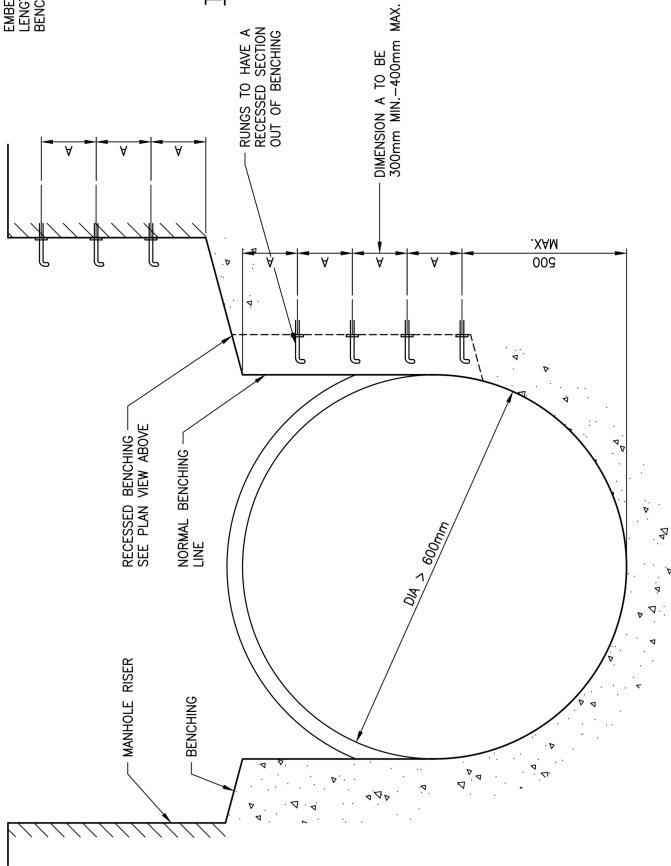
TYPICAL SECTION
RUNG CONNECTION BY NUT

RUNG CONNECTIONS



SIDE ELEVATION

PLAN

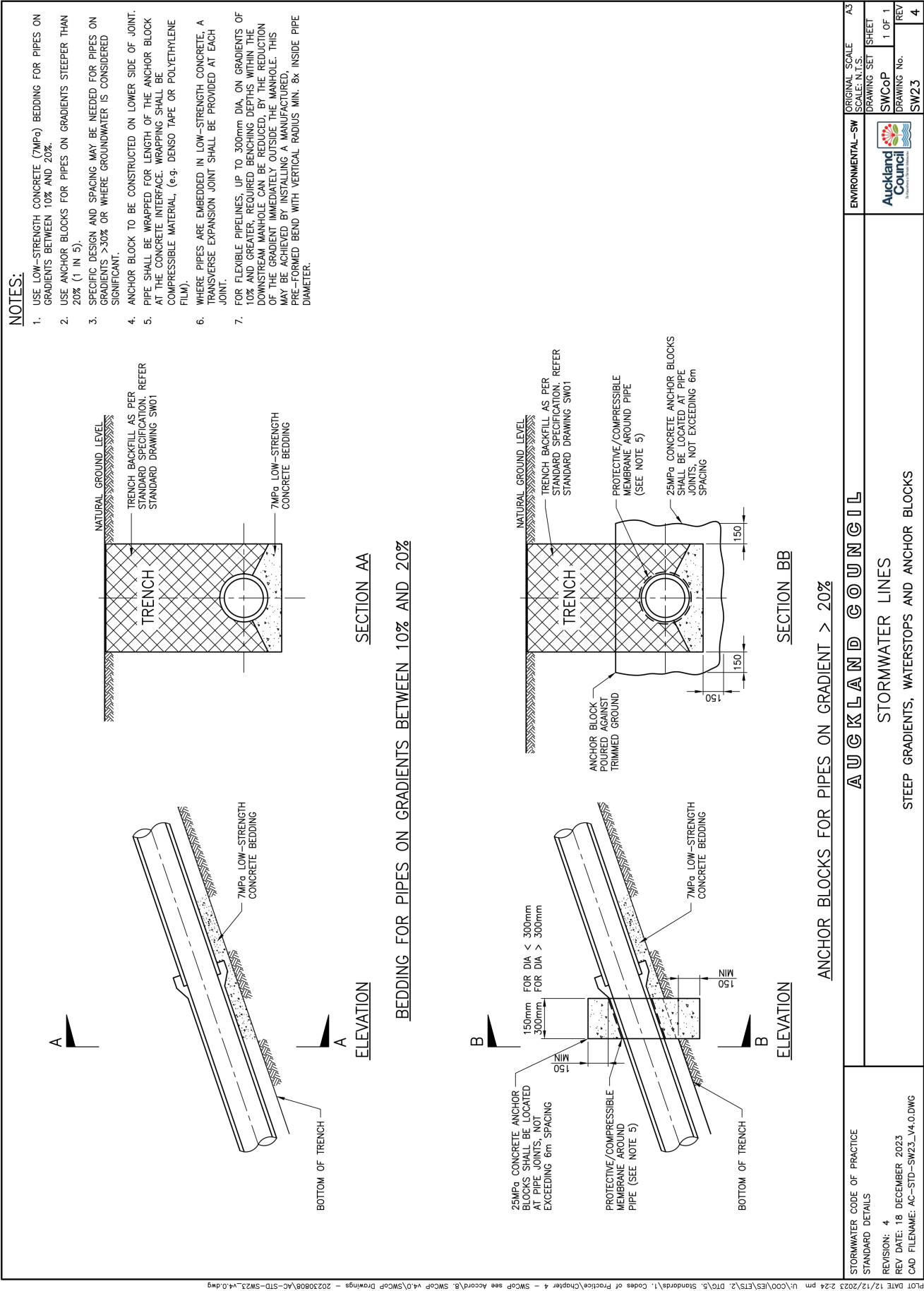


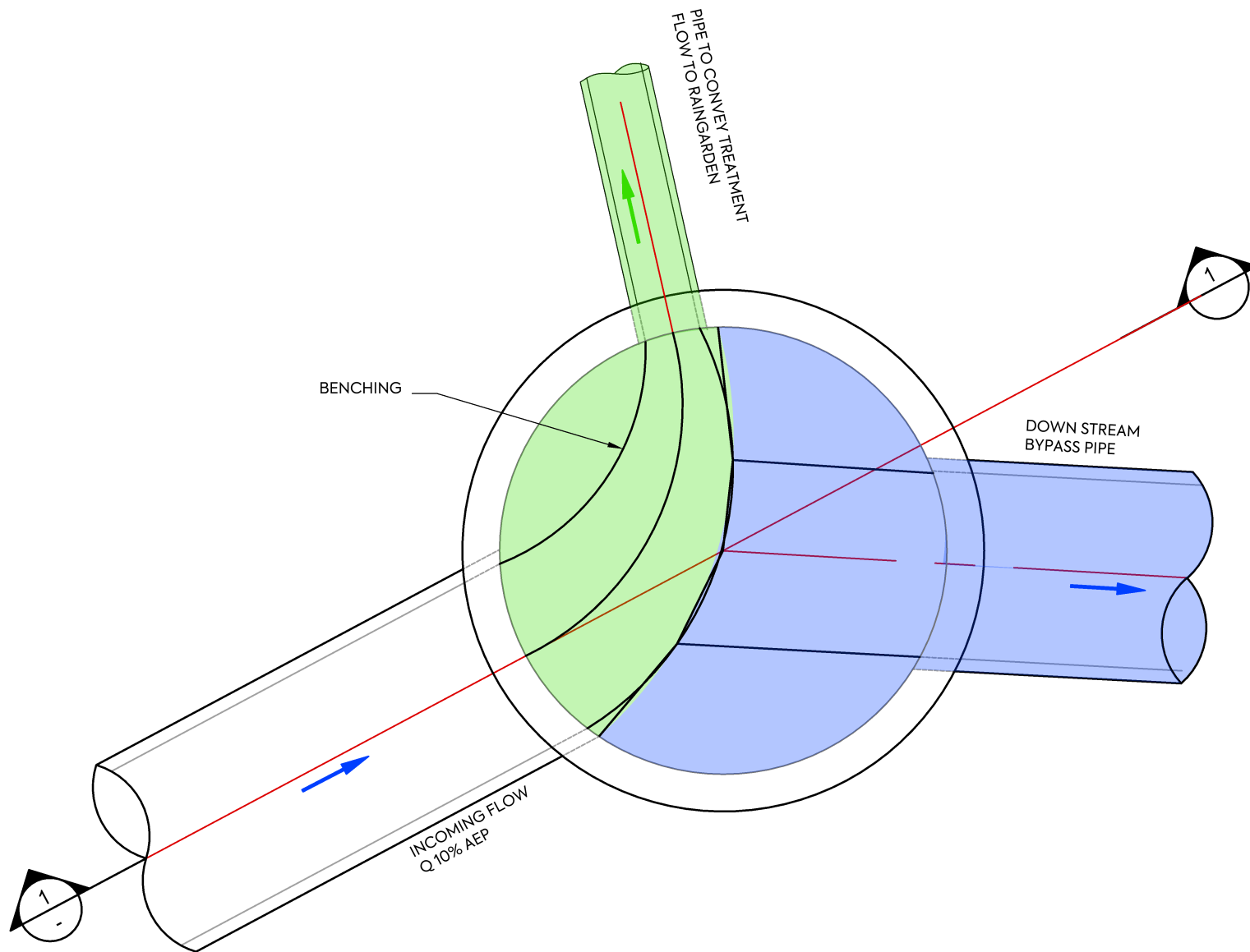
MANHOLE SECTION
RECESSED RUNGS

AUCKLAND COUNCIL
STORMWATER MANHOLE ACCESS
RECESSED RUNGS AND GENERAL ACCESS RUNGS DETAILS

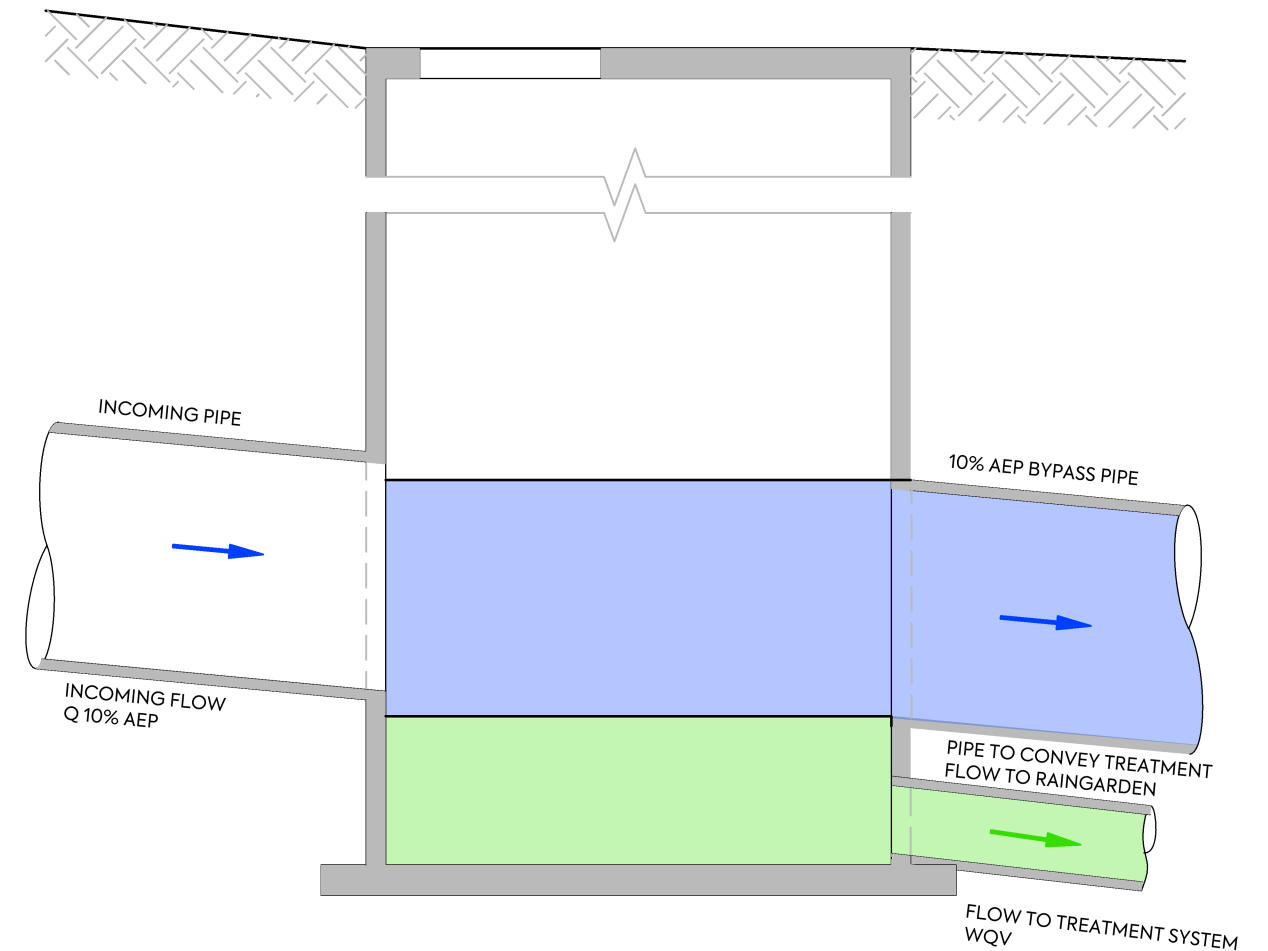
STORMWATER CODE OF PRACTICE
STANDARD DETAILS
REVISION: 3
REV DATE: 17 JANUARY 2022
CAD FILENAME: AC-STD-SW09.DWG

ENVIRONMENTAL-SW	ORIGINAL SCALE	A3
Auckland Council	SCALE: N.T.S.	DRAWING SET
SWCoP	SWCoP	1 OF 1
DRAWING No.	DRAWING No.	REV
SW09	SW09	3





PLAN
SCALE 1:25 @A3



SECTION 1
AS SHOWN



CLIENT:
VINEWAY LTD

PROJECT:
DELMORE
53A, 53B & 55 RUSSELL ROAD
ŌREWA

TITLE:
STORMWATER
SPLITTER MANHOLE
TYPICAL DETAILS

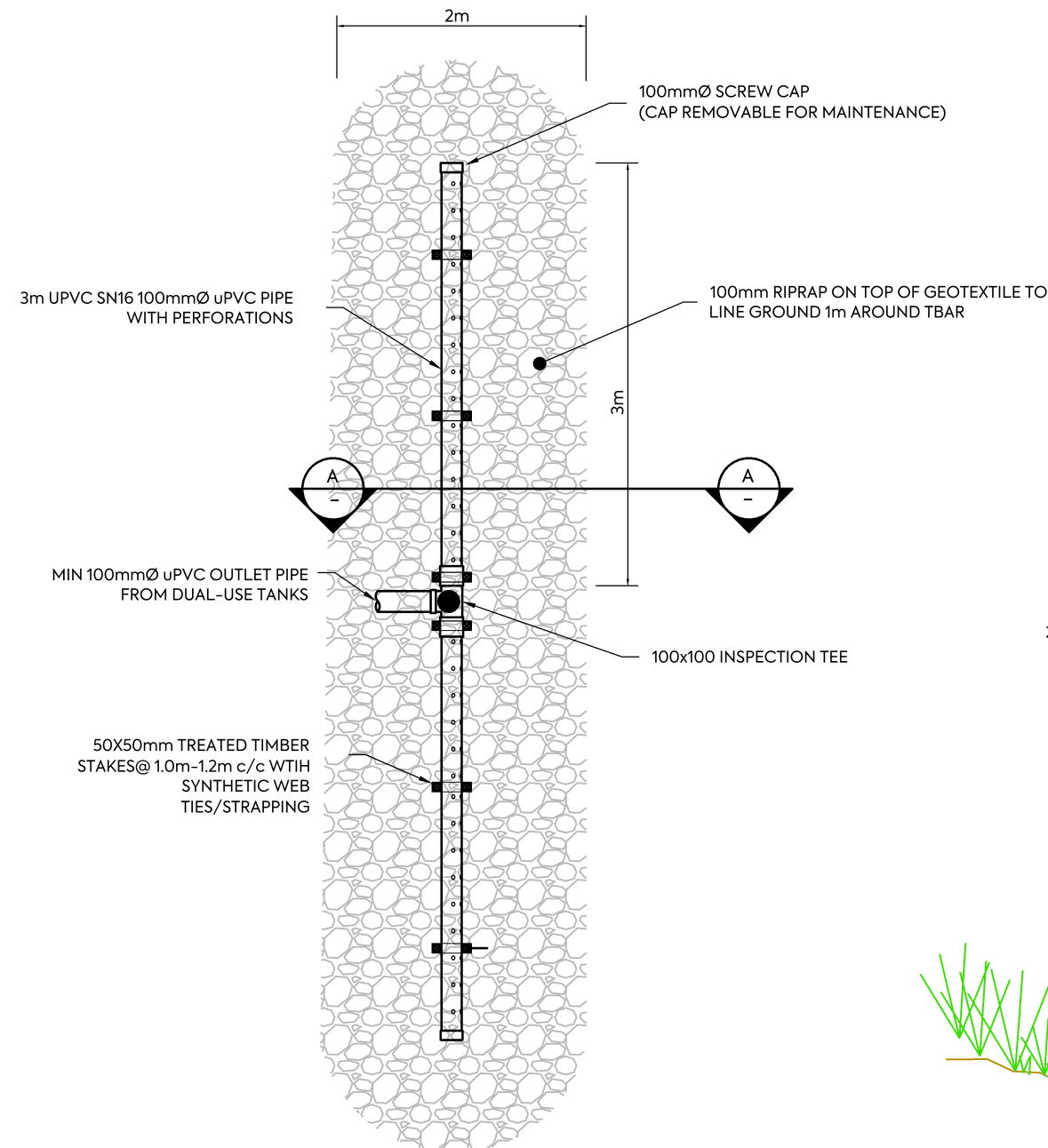
PURPOSE OF ISSUE:
RESOURCE CONSENT

SCALE:
1:25m @ A3
DO NOT SCALE

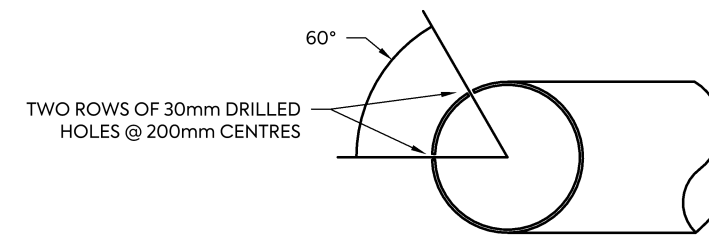
DRAWING NO:
3725-4350

REV:
A

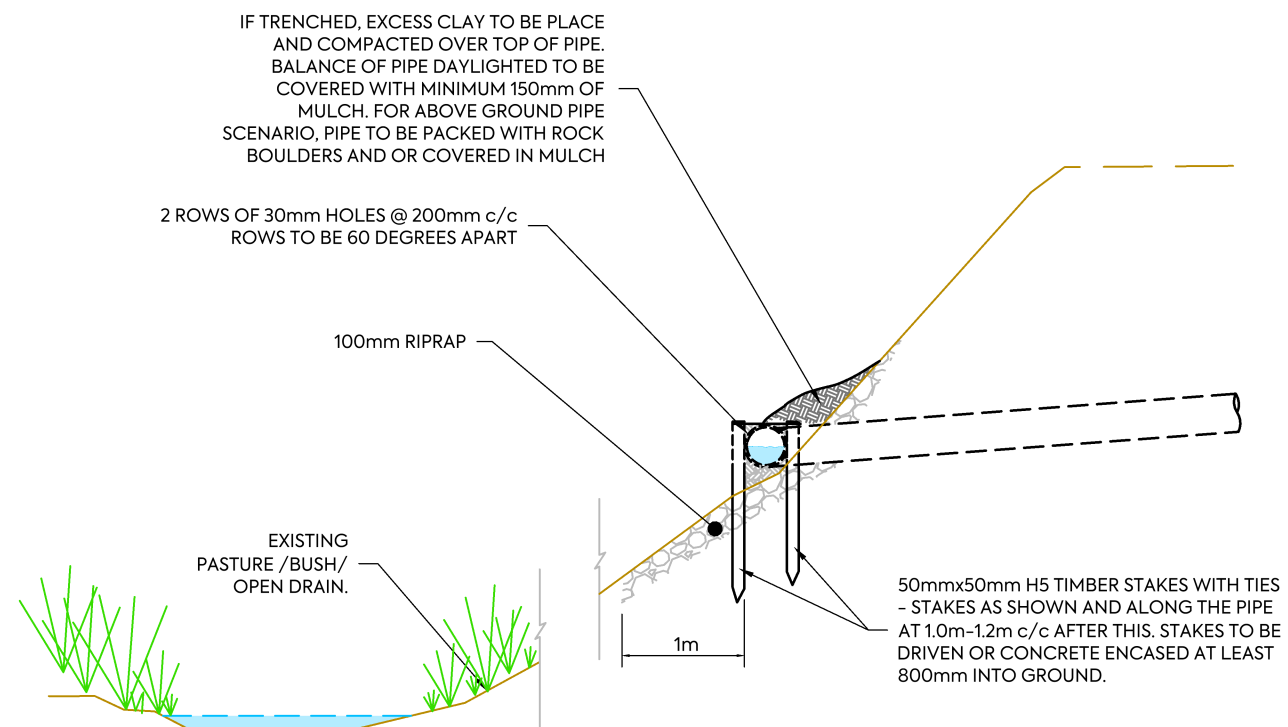
REV	DESCRIPTION	DRN BY	CHK BY	APP BY	DATE
A	FIRST ISSUE	NC	PO	JK	19/12/24



PLAN



PIPE OUTLET HOLE ARRANGEMENT
DETAIL



SECTION A-A

ABOVE GROUND LEVEL SPREADER OUTLET

(FIGURE C22 - COUNTRYSIDE LIVING TOOLBOX)

REV	DESCRIPTION	DRN BY	CHK BY	APP BY	DATE
C	FOR CONSENT	SJO			02/07/25
B	FOR TENDER	MO	PO		15/05/25
A	FIRST ISSUE	JDK			31/01/25



CLIENT:

VINEWAY LTD

PROJECT:

DELMORE
53A, 53B & 55 RUSSELL ROAD
ÖREWA

TITLE:

STORMWATER
T-BAR LEVEL SPREADER
TYPICAL DETAILS

PURPOSE OF ISSUE:

FOR CONSENT

SCALE:
1:25m @ A3

DO NOT SCALE

DRAWING NO:

3725-1-4360

REV:

C