

WHALE BEACH NEIGHBOURHOOD CENTRE

231 WHALE BEACH ROAD, WHALE BEACH N.S.W.

PUBLIC DOMAIN CIVIL WORKS



PROPOSED RESIDENTIAL AND COMMERCIAL DEVELOPMENT
"WHALE BEACH NEIGHBOURHOOD CENTRE".
REFER DA2020/0442 FOR DETAILS

LOCALITY SKETCH
SCALE: N.T.S.

DRAWING SCHEDULE

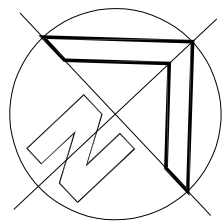
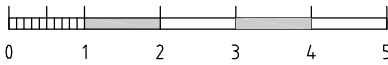
S1.00 - COVER SHEET

- SW2.00 - STORMWATER INFRASTRUCTURE WORKS
- SW2.01 - STORMWATER PART PLANS
- SW2.02 - LONGSECTIONS SHEET 1
- SW2.03 - LONGSECTIONS SHEET 2
- SW2.04 - STORMWATER DETAILS SHEET 1
- SW2.05 - STORMWATER DETAILS SHEET 2
- SW2.06 - STORMWATER DETAILS SHEET 3
- SW2.07 - STORMWATER DETAILS SHEET 4
- SW2.08 - STORMWATER DETAILS SHEET 5
- SW2.09 - STORMWATER DETAILS SHEET 6

- CW1.00 - PUBLIC DOMAIN INFRASTRUCTURE WORKS PLAN
- CW1.01 - INFRASTRUCTURE WORKS PART PLANS
- CW1.02 - INFRASTRUCTURE WORKS DETAILS SHEET 1
- CW1.03 - INFRASTRUCTURE WORKS DETAILS SHEET 2
- CW1.04 - INFRASTRUCTURE WORKS DETAILS SHEET 3
- CW1.05 - INFRASTRUCTURE WORKS DETAILS SHEET 4

PRELIMINARY

NOT FOR CONSTRUCTION



REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
02	ISSUED FOR APPROVAL	A.C.W.	L.M.	22.02.24
01	ISSUED FOR COMMENTS	A.C.W.	L.M.	21.12.23

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ACN : 124 694 917

Project :
WHALE BEACH NEIGHBOURHOOD CENTRE
231 WHALE BEACH ROAD
WHALE BEACH N.S.W.
for LESLIE CASSAR

Drawing :
COVER SHEET

Job No : 190210	Drawing No : SW1.00 02
Document certification Barrenjoey Consulting Engineers Pty Ltd	
PER Lucas Molloy MIEA CPEng NPER Director	



LEGEND

- PROPOSED JUNCTION PITS
- PROPOSED SURFACE INLET PITS
- NEW KERB INLET PITS
- EXISTING COUNCIL PIPE TO REMAIN
- PROPOSED 450Ø RCP
- PROPOSED 150Ø RCP
- COUNCIL PIPE TO BE REMOVED
- PROPOSED 225Ø - REFER TO CIVIL ENG. DRAWINGS

PIT SCHEDULE

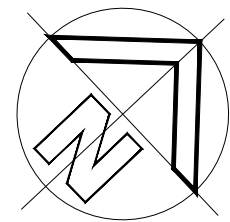
PIT No.	PIT TYPE	SIZE / LINTEL	FSL	INV
P1	NEW KERB INLET PIT	900 x 900 / 1.8	20.40	19.25
P2	NEW KERB INLET PIT	900 x 900 / 1.8	20.40	19.20
P3	NEW KERB INLET PIT	900 x 900 / 1.8	18.81	16.95
P4	NEW KERB INLET PIT	900 x 900 / 1.8	14.46	13.26
P5	NEW KERB INLET PIT	900 x 900 / 1.8	10.82	9.62
P6	NEW DISH DRAIN PIT	900 x 900 / N.A.	8.80	7.60
P7	NEW KERB INLET PIT	900 x 900 / 1.8	7.75	4.10
P8	NEW DISH DRAIN PIT	900 x 900 / N.A.	5.90	4.90
P9	NEW GENERAL PIT	600 x 600	20.20	19.60
P10	NEW GENERAL PIT	600 x 600	8.64	7.64

PROPOSED WORKS
REMOVE THE EXISTING 450 RCP WITHIN No 231, INSTALL NEW KERB INLET PITS
AND 450 RCP ALONG WHALE BEACH / SURF RD, INSTALL AN EMERGENCY
OVERLAND FLOW PATH ALONG THE SOUTHERN BOUNDARY OF No 231

PRELIMINARY

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STORMWATER INFRASTRUCTURE WORKS
(WORKS SHOWN OVER PRE-DEVELOPMENT SURVEY)
SCALE 1:200



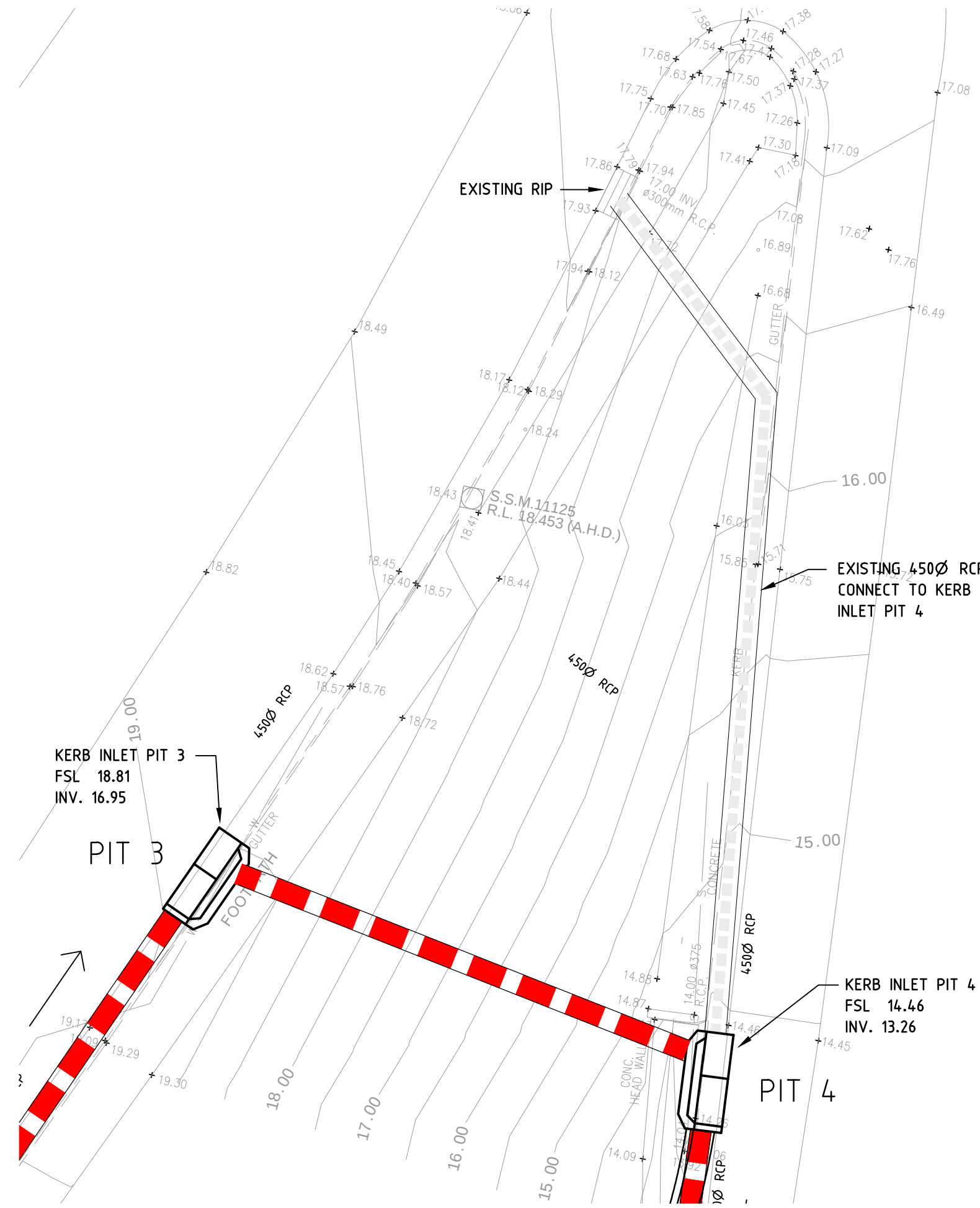
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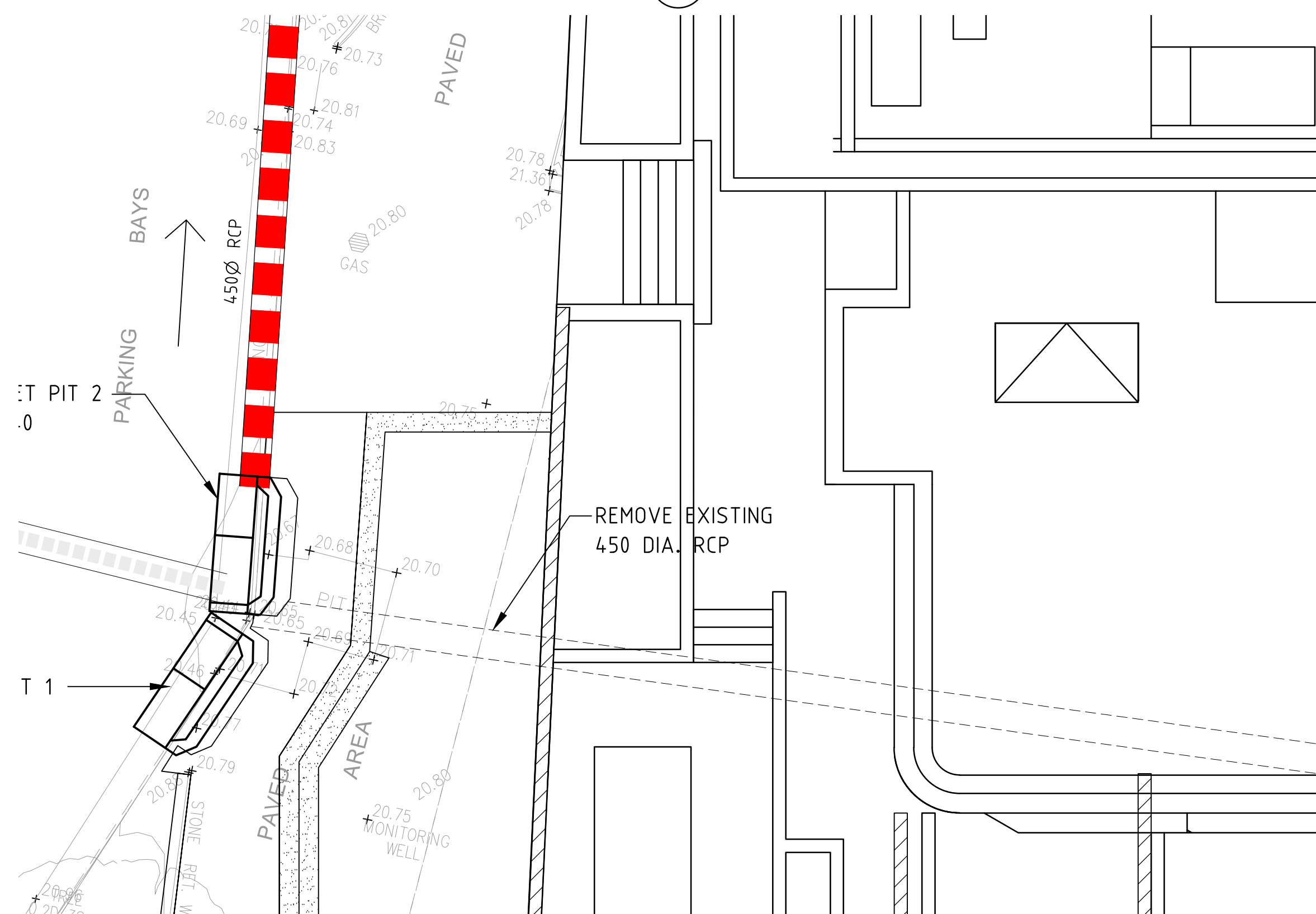
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Drawing :
STORMWATER INFRASTRUCTURE
WORKS

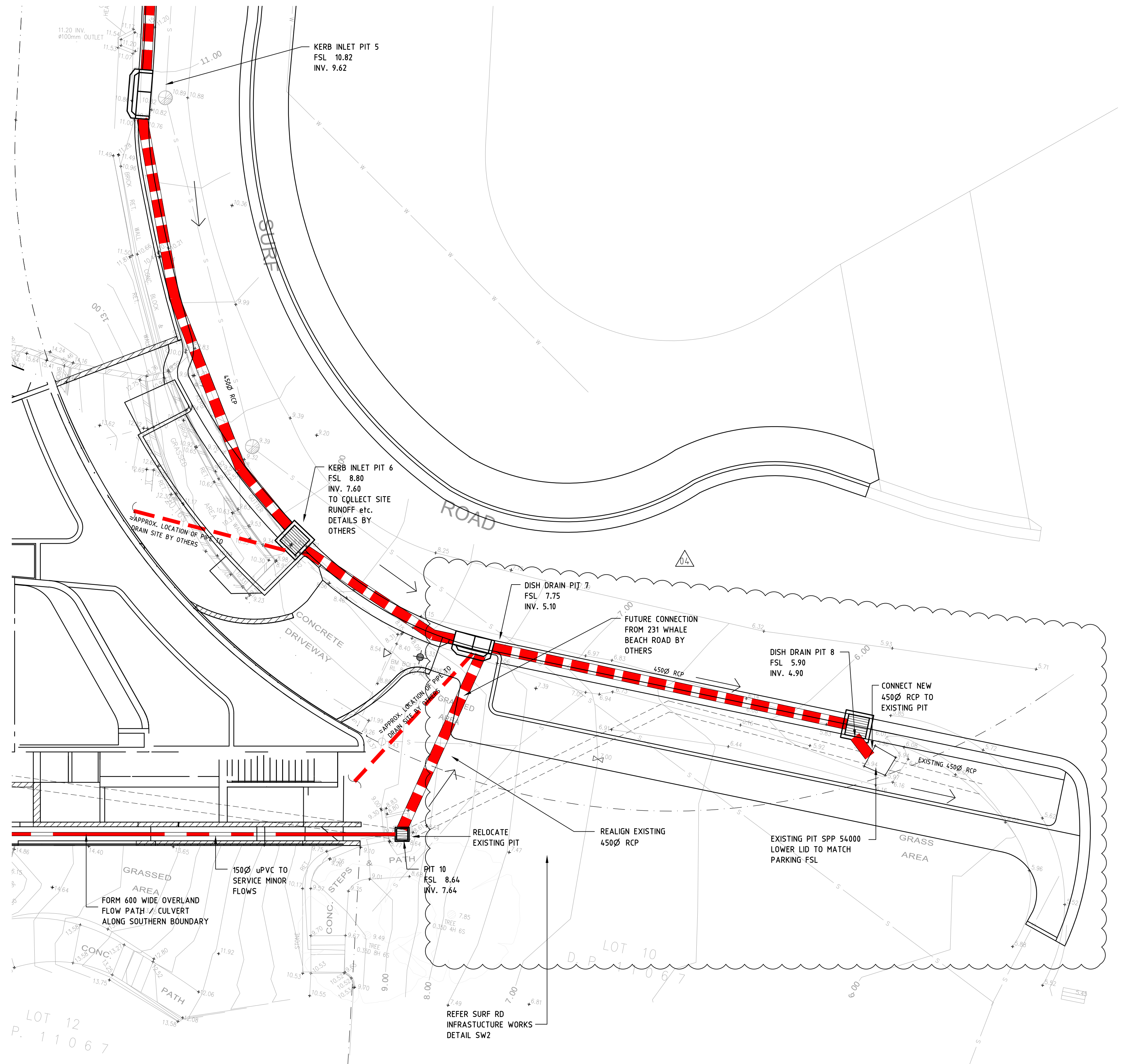
Job No :
190210
Drawing No :
SW2.00 05
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PER
Lucas Molloy MIEA CPEng NPER Director



DETAIL A
1:100
SW2.00



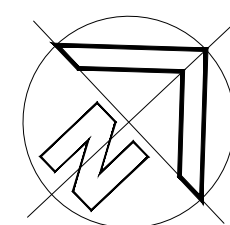
DETAIL B
1:100
SW2.00



DETAIL C
1:100
SW2.00

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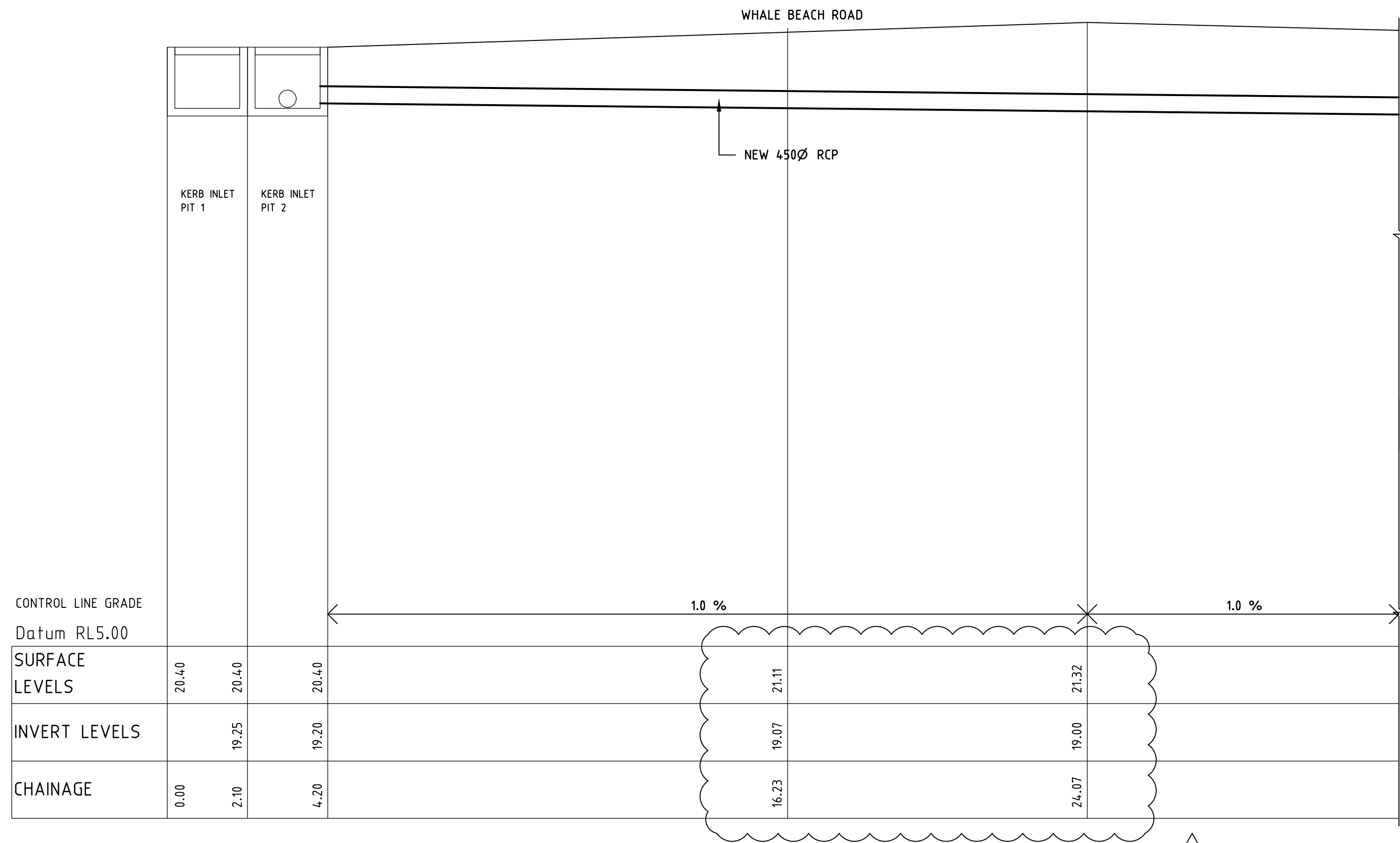
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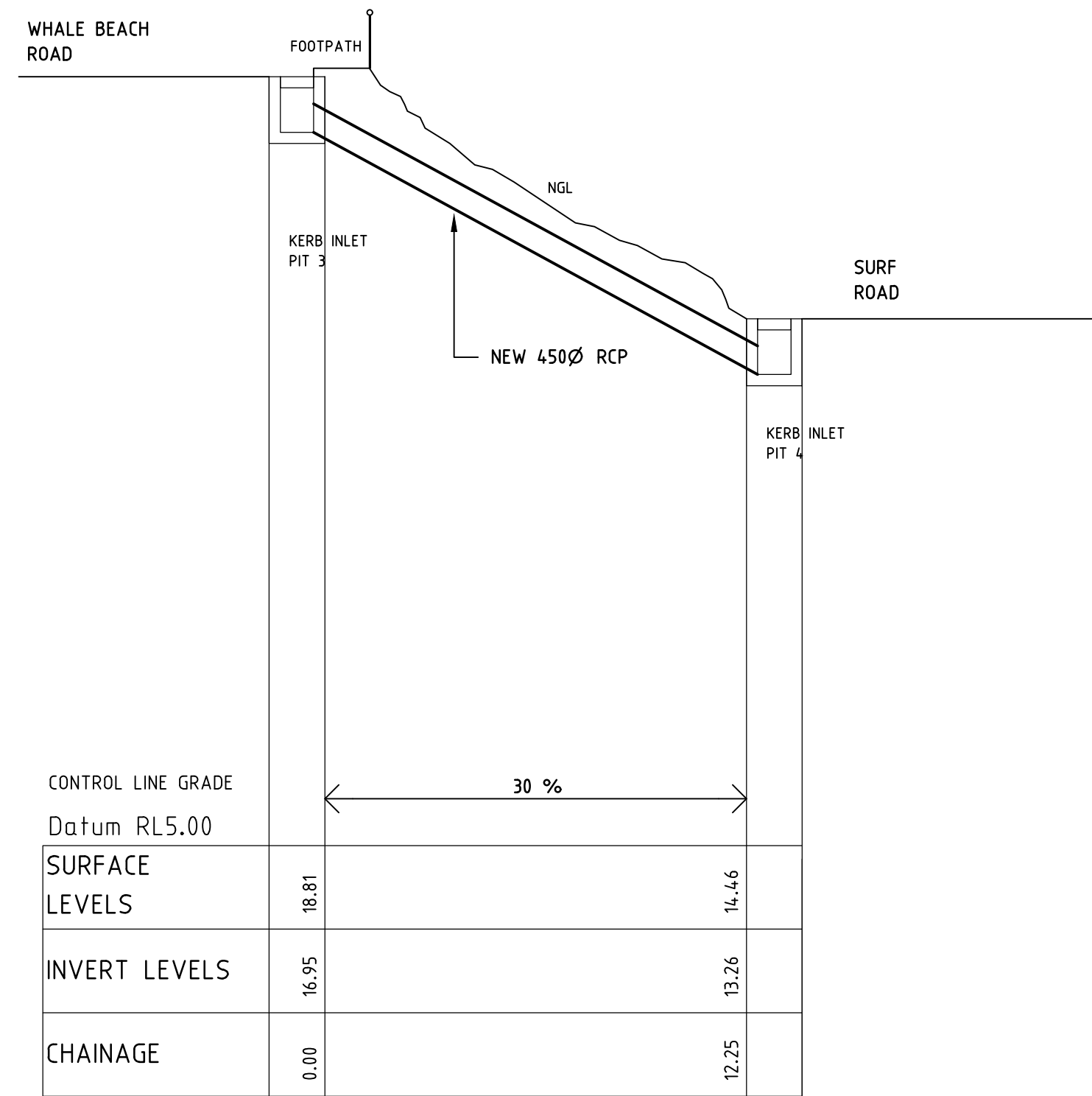
Drawing :
STORMWATER PART PLANS

Job No :
190210
Drawing No :
SW2.01 04
Document certification
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PER
Lucas Molloy MIEA CPEng NPER Director



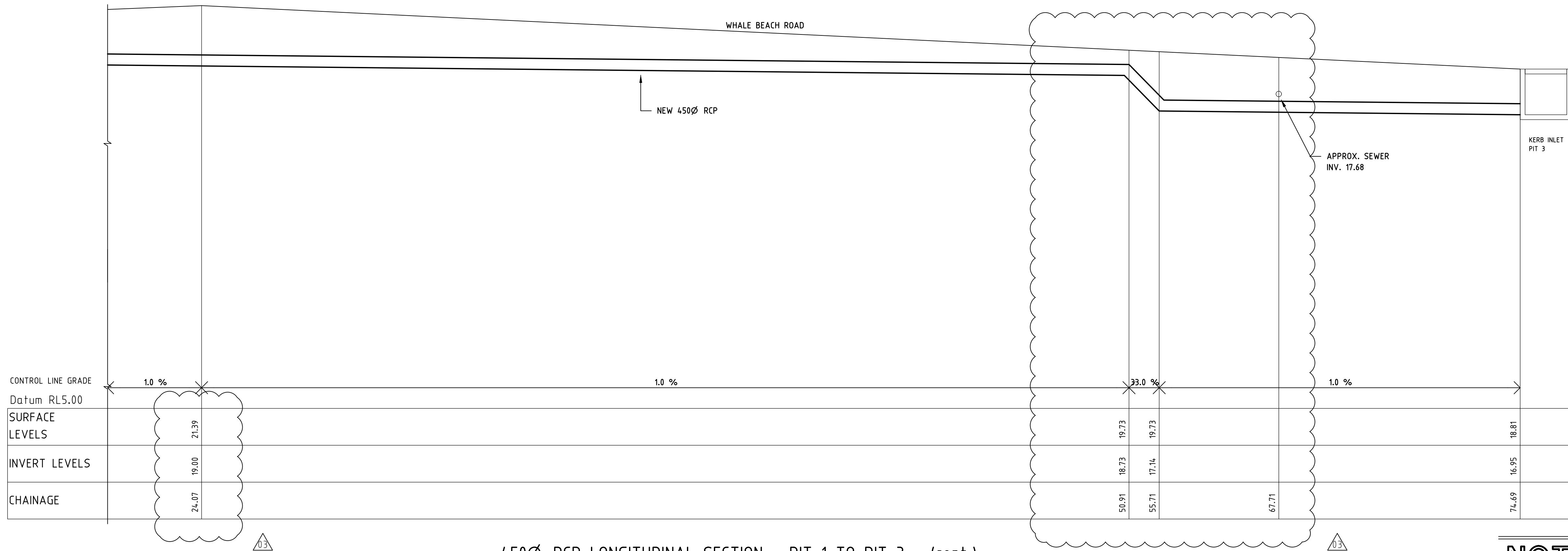
450Ø RCP LONGITUDINAL SECTION - PIT 1 TO PIT 3

HORIZONTAL SCALE 1:100
VERTICAL SCALE 1:100



450Ø RCP LONGITUDINAL SECTION - PIT 3 TO PIT 4

HORIZONTAL SCALE 1:100
VERTICAL SCALE 1:100

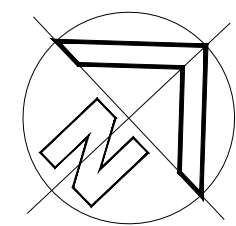


450Ø RCP LONGITUDINAL SECTION - PIT 1 TO PIT 3 - (cont.)

HORIZONTAL SCALE 1:100
VERTICAL SCALE 1:100

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Drawing :

450Ø RCP LONGSECTIONS SHEET 1

Job No :

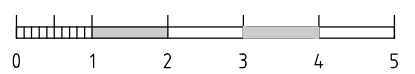
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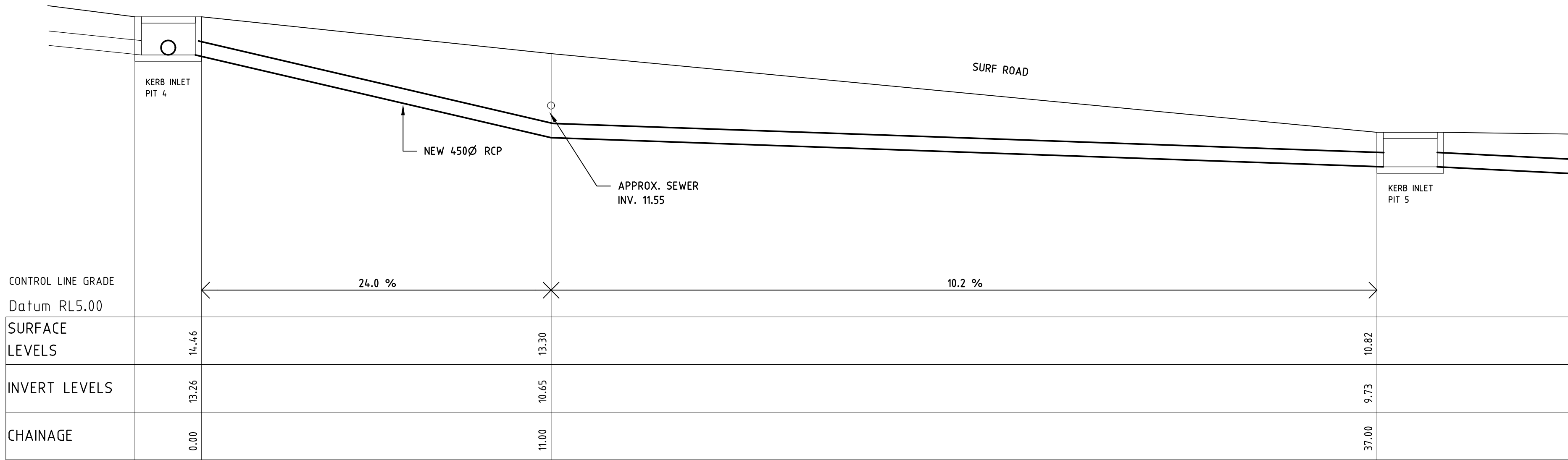
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SW2.02 03

Document certification
Barrenjoey Consulting Engineers Pty Ltd

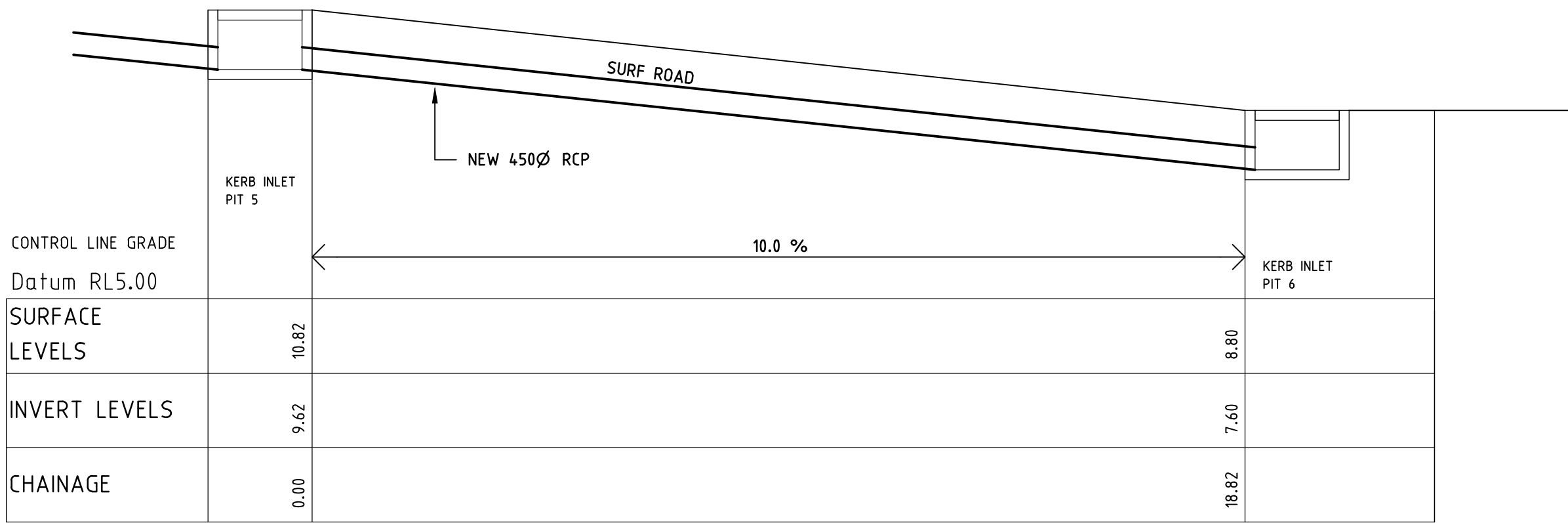
PER
Lucas Molloy MIEA CPEng NPER Director





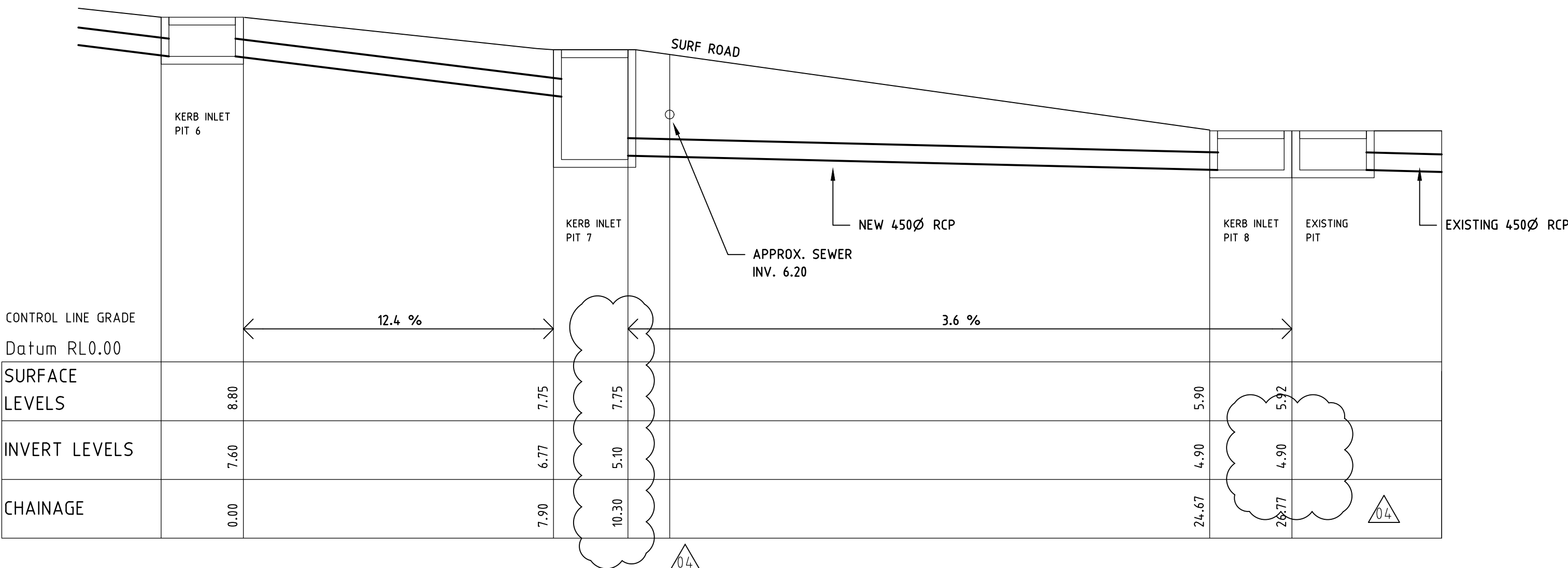
450Ø RCP LONGITUDINAL SECTION - PIT 4 TO PIT 5

HORIZONTAL SCALE 1:100
VERTICAL SCALE 1:100



450Ø RCP LONGITUDINAL SECTION - PIT 5 TO PIT 6

HORIZONTAL SCALE 1:100
VERTICAL SCALE 1:100

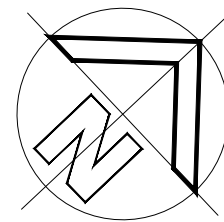


450Ø RCP LONGITUDINAL SECTION - PIT 6, 7, 8 TO EXISTING PIT

HORIZONTAL SCALE 1:100
VERTICAL SCALE 1:100

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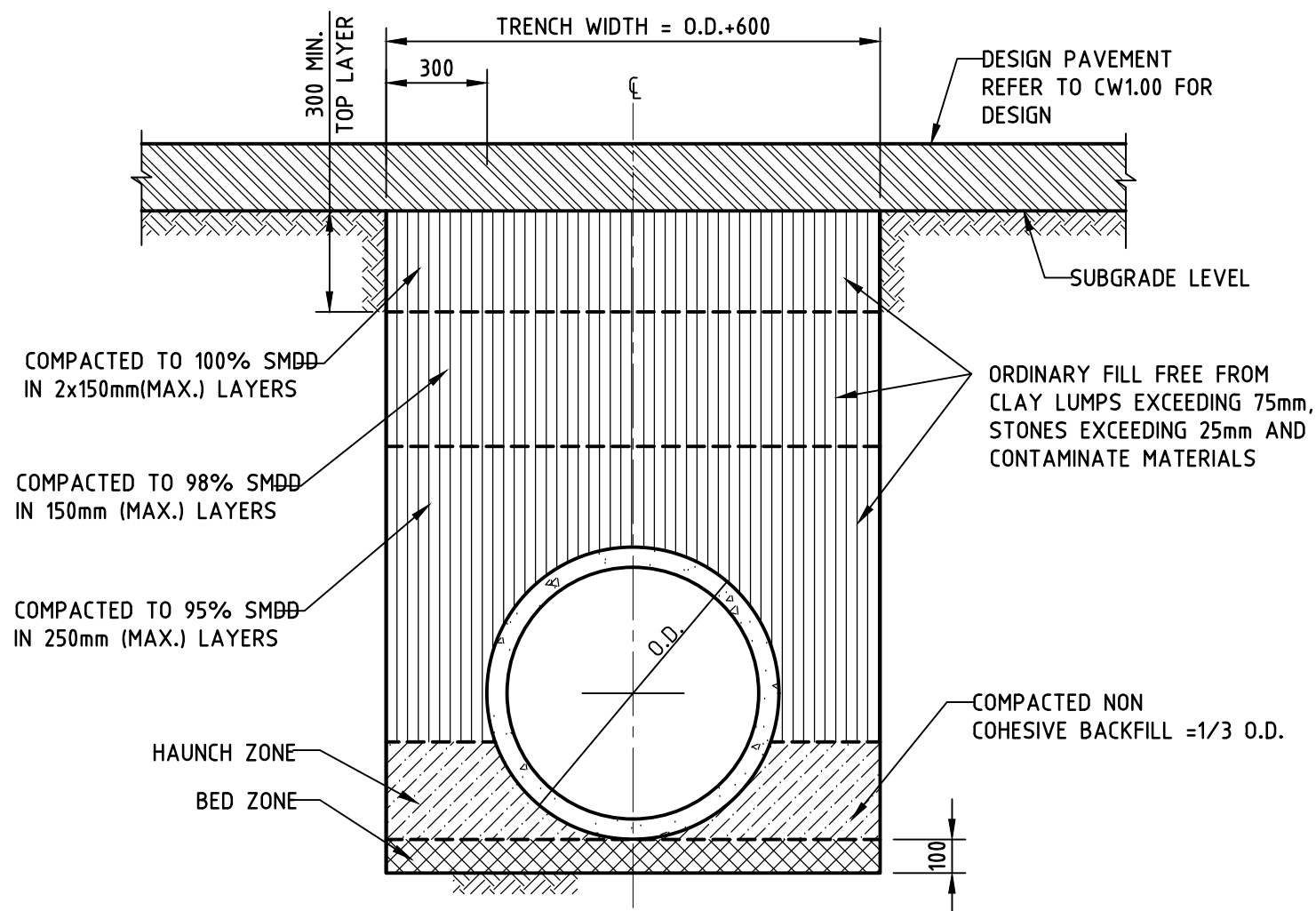
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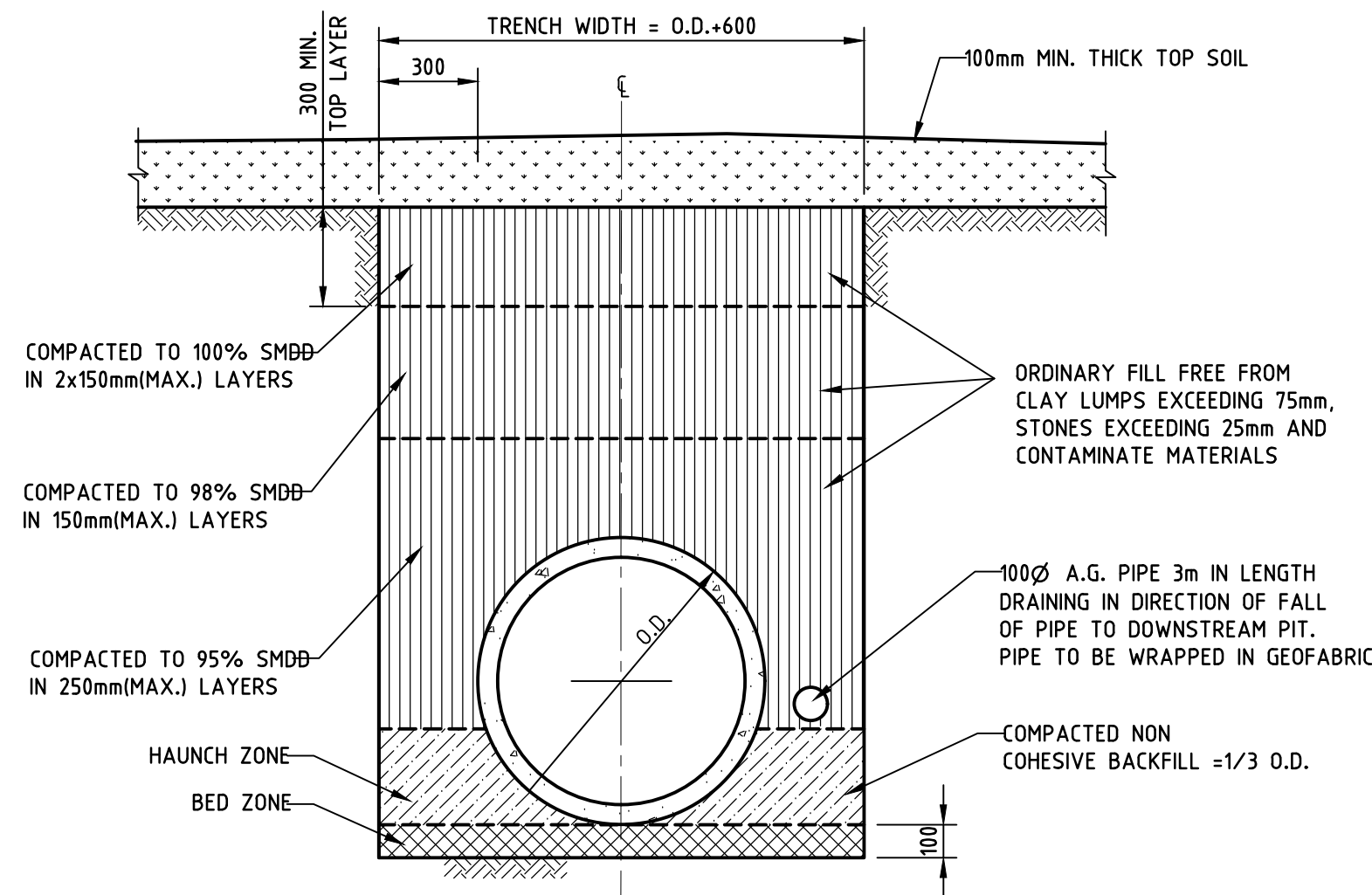
Drawing :
450Ø RCP LONGSECTIONS SHEET 2

Job No :
190210
Drawing No :
SW2.03 04
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PIPE TRENCH
INSTALLATION BENEATH
PAVEMENT

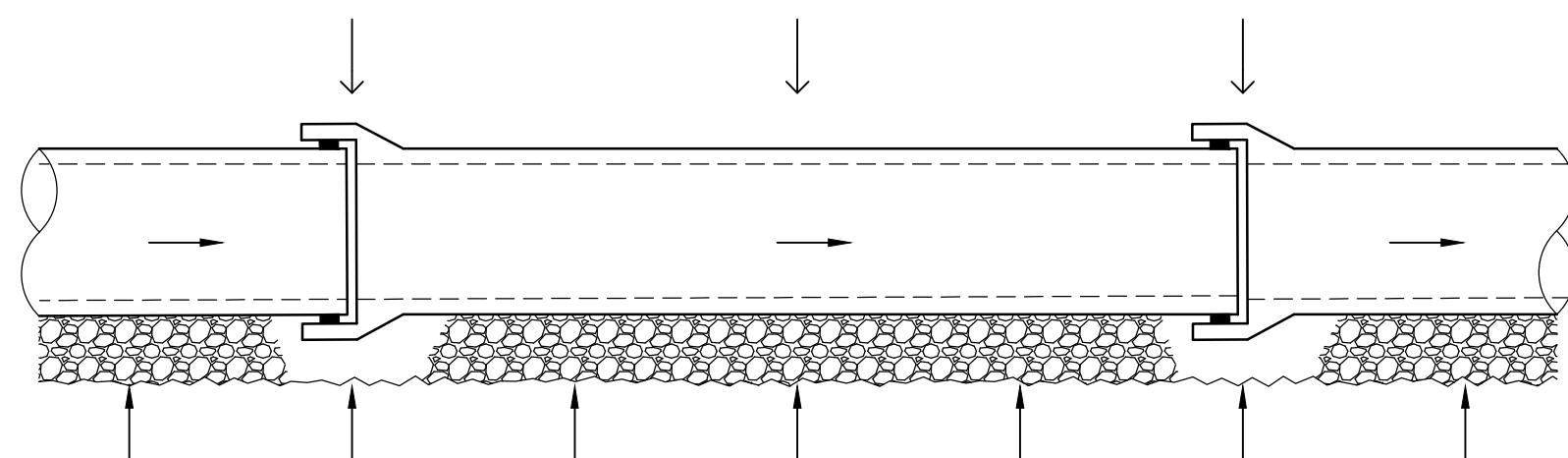
NOTE :
EXCAVATION TO BE CARRIED OUT
IN ACCORDANCE WITH ALL OH & S
REQUIREMENTS



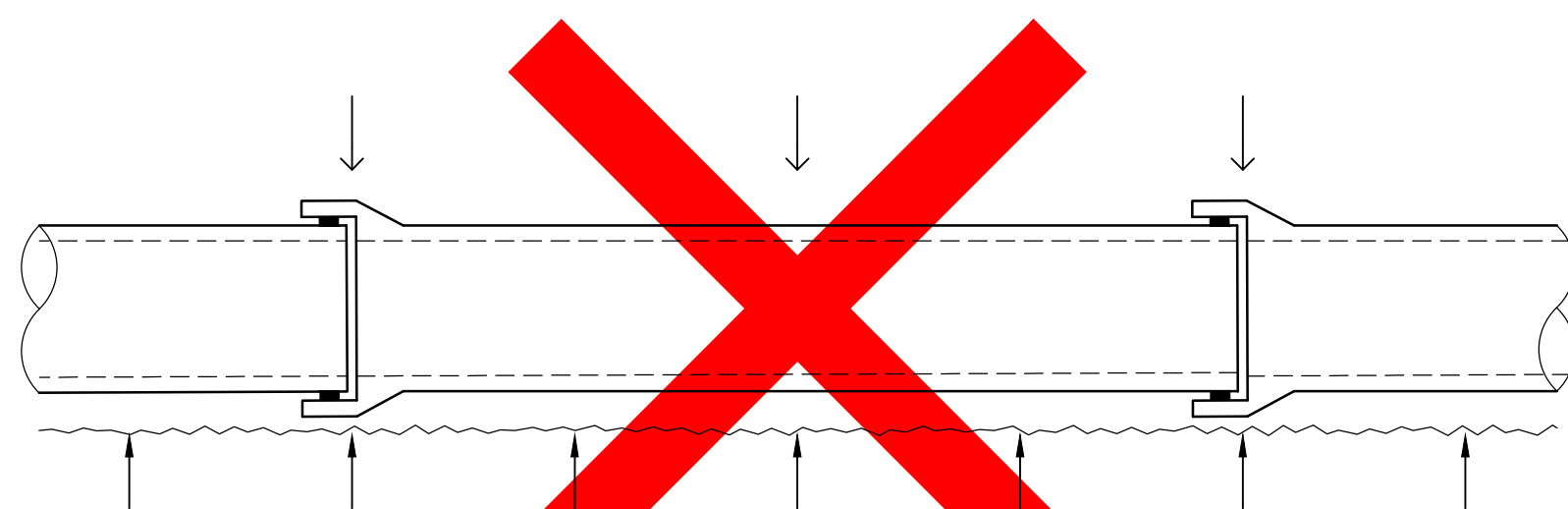
PIPE TRENCH INSTALLATION
IN LANDSCAPE AREAS

BEDDING AND BACKFILLING

NOTE :
AVOID DAMAGING THE PIPES BY EXCESSIVE IMPACT FROM HEAVY COMPACTION EQUIPMENT. KEEP LARGE ROCKS (GREATER THAN 300mm) AND OTHER SUCH HARD OBJECTS OUT OF THE FILL ADJACENT TO THE PIPES.
BRING UP THE HAUNCH AND SIDE ZONES ON BOTH SIDES OF THE PIPE, SO THAT THE DIFFERENCE BETWEEN THE LEVEL OF THE MATERIAL NEVER EXCEEDS TWO COMPACTION LAYER THICKNESS. THIS ENSURES THAT THE PIPES WILL NOT BE EASED SLIGHTLY OUT OF ALIGNMENT.
AVOID RUNNING HEAVY CONSTRUCTION EQUIPMENT OVER THE PIPES UNTIL A SUFFICIENT CUSHION OF MATERIAL HAS BEEN PLACED, APPROXIMATELY 300mm FOR NORMAL EQUIPMENT.
WHEN USING VIBRATING COMPACTION EQUIPMENT, ALLOW A 500mm CUSHION OF MATERIAL OVER THE PIPE OR ALTERNATIVELY TURN OFF THE VIBRATION UNTIL THIS LEVEL IS REACHED.



CORRECT

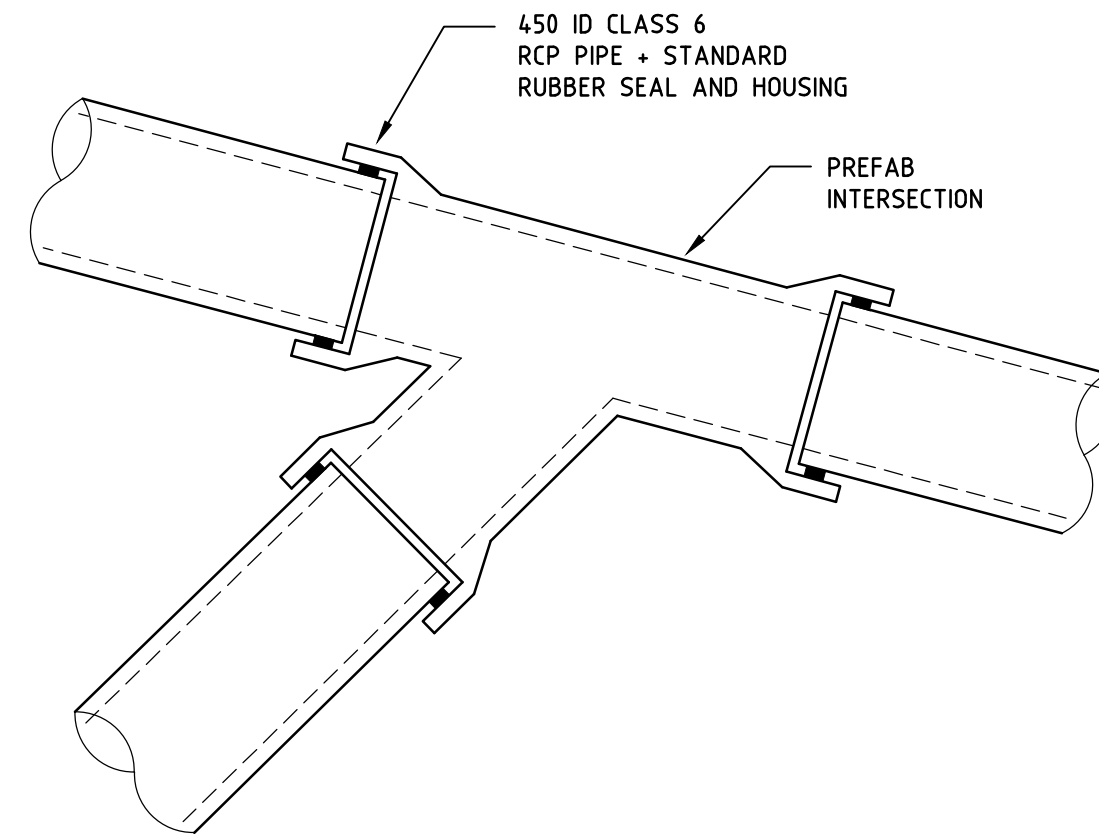


IN-CORRECT

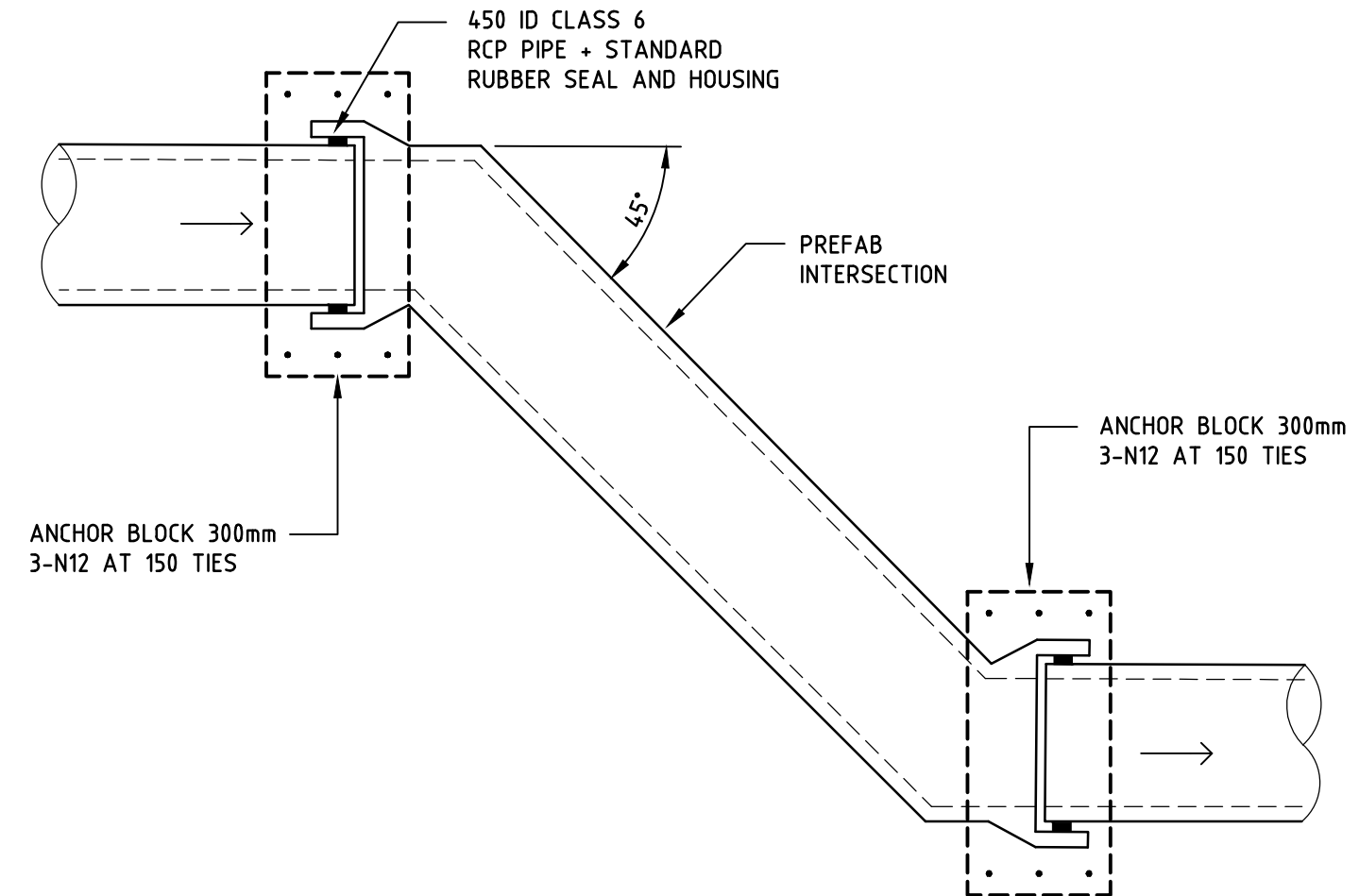
PIPE PLACING BEDDING DETAIL

NOTE :
CONCRETE PIPES ARE PLACED ON A PREPARED FLAT BEDDING. SHAPED BEDDING IS NOT NECESSARY FOR THE PIPE. BED MATERIAL IS SPREAD ACROSS THE FULL TRENCH WIDTH TO THE DEPTH REQUIRED, AND COMPACTED TO PREVENT SETTLEMENT OF THE PIPELINE. BED MATERIAL SHOULD BE GRANULAR AND FALL WITHIN THE SPECIFIED SIZE LIMITS GIVEN IN THE TABLE BELOW

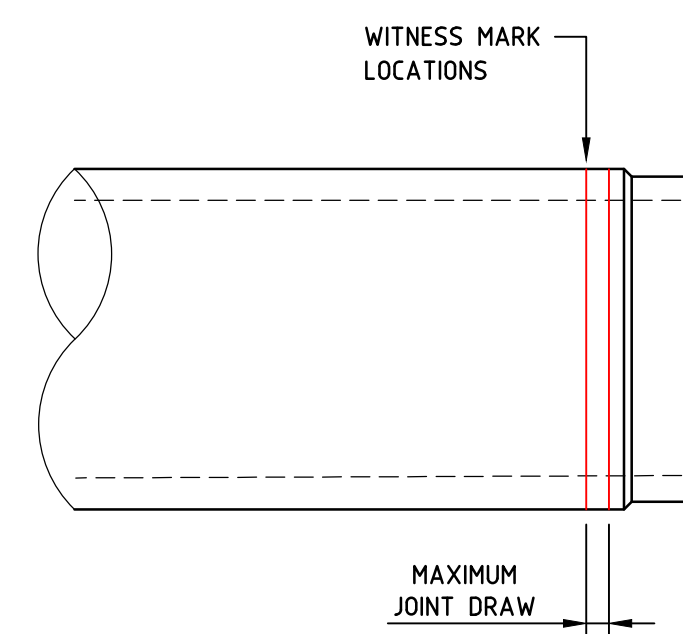
SLEEVE SIZE (mm)	WEIGHT PASSING (%)
19.00	100
2.36	100 TO 50
0.60	90 TO 20
0.30	60 TO 10
0.15	25 TO 0
0.075	10 TO 0



450Ø TO 450Ø PIPE INTERSECTION DETAIL

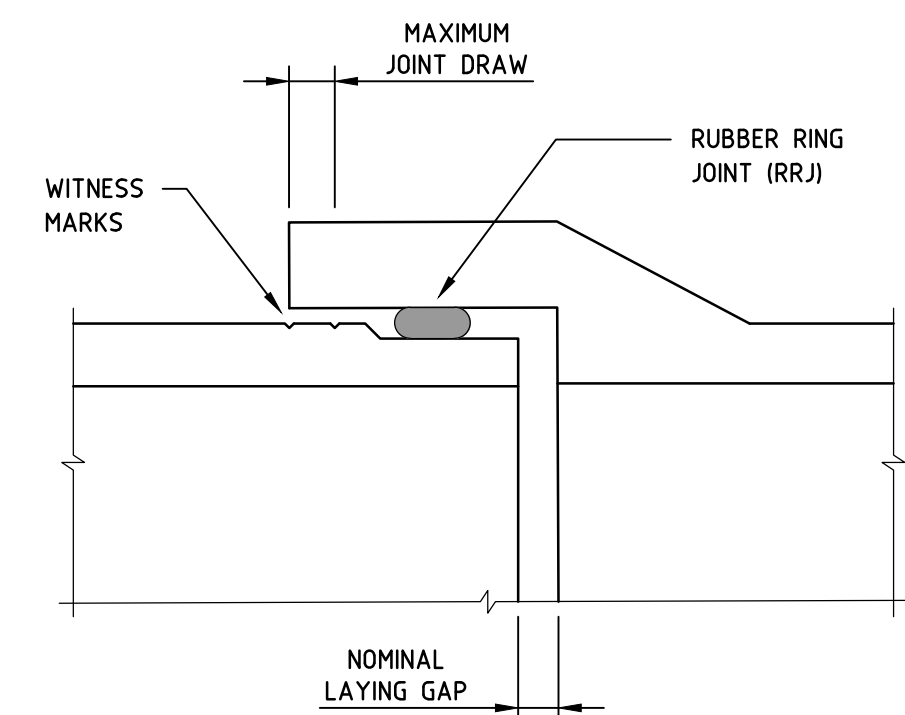
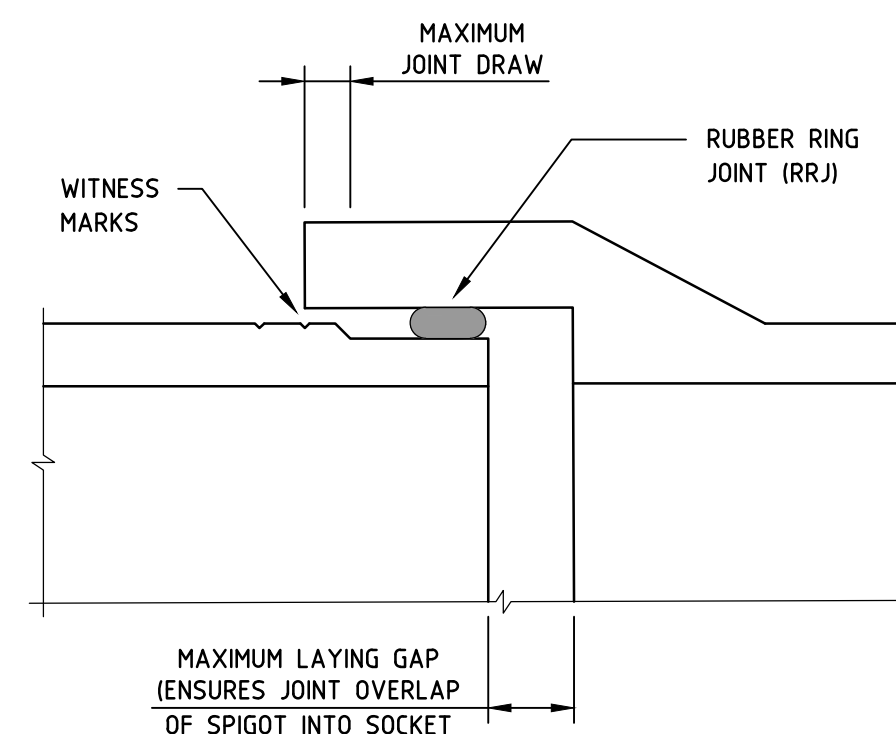


INCLINATION JUNCTION DETAIL



PIPE LAYING DETAIL

NOTE :
FOR RRJ PIPES LESS THAN DN1800, A LAYING GAP IS INDICATED ON THE OUTSIDE OF THE PIPE BY A SERIES OF WITNESS MARKS (SEE DETAIL) WHICH SHOW THAT THE JOINT HAS BEEN PUSHED FULLY HOME (ZERO LAYING GAP), THUS ENSURING PROPER JOINTING

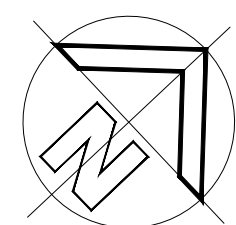


JOINTING PIPE DETAIL

NOTE :
WHEN JOINTING RRJ PIPES THERE IS A NOMINAL RECOMMENDED JOINT LAYING GAP AND A MAXIMUM LAYING GAP AS INDICATED.

PRELIMINARY

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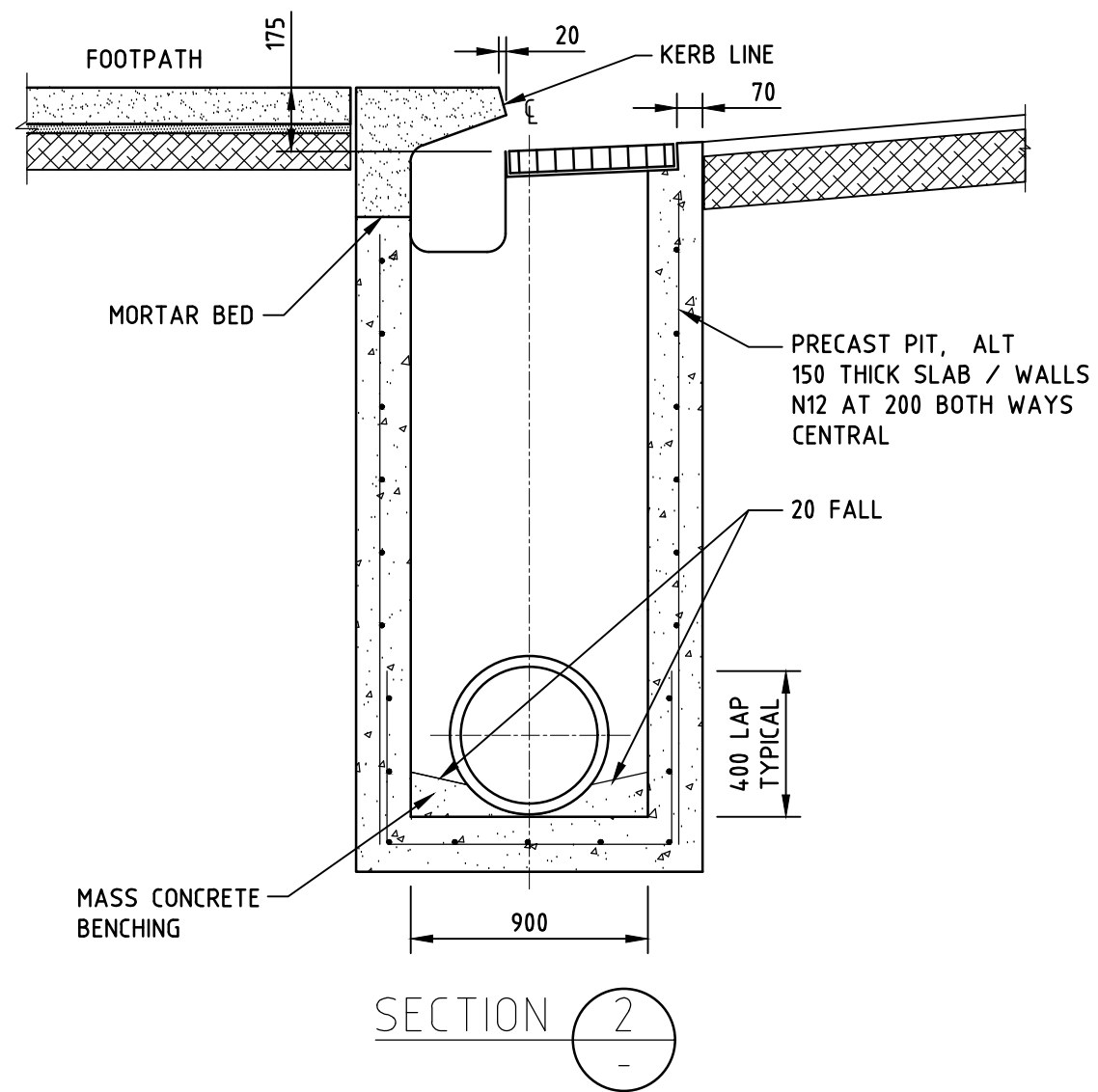
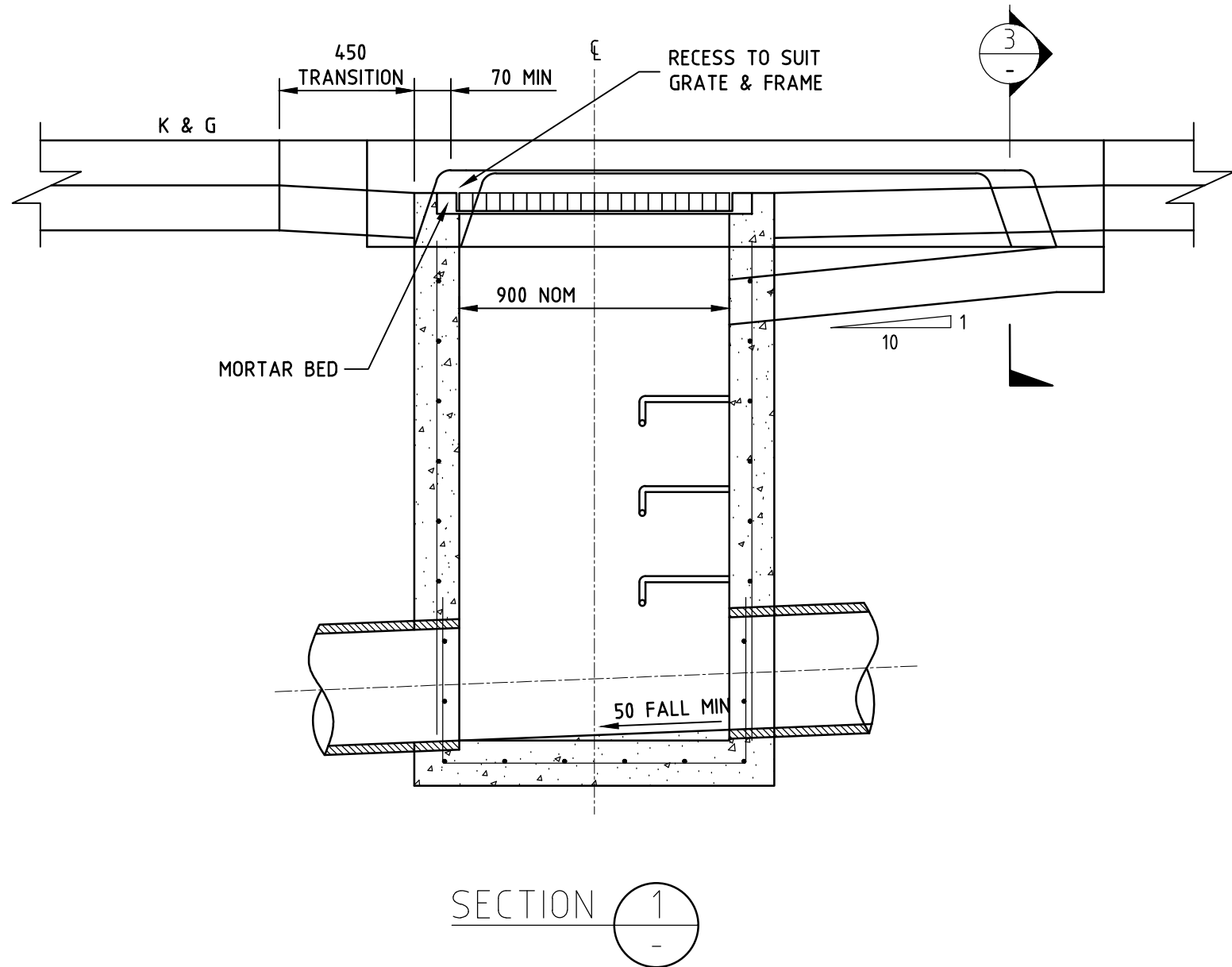
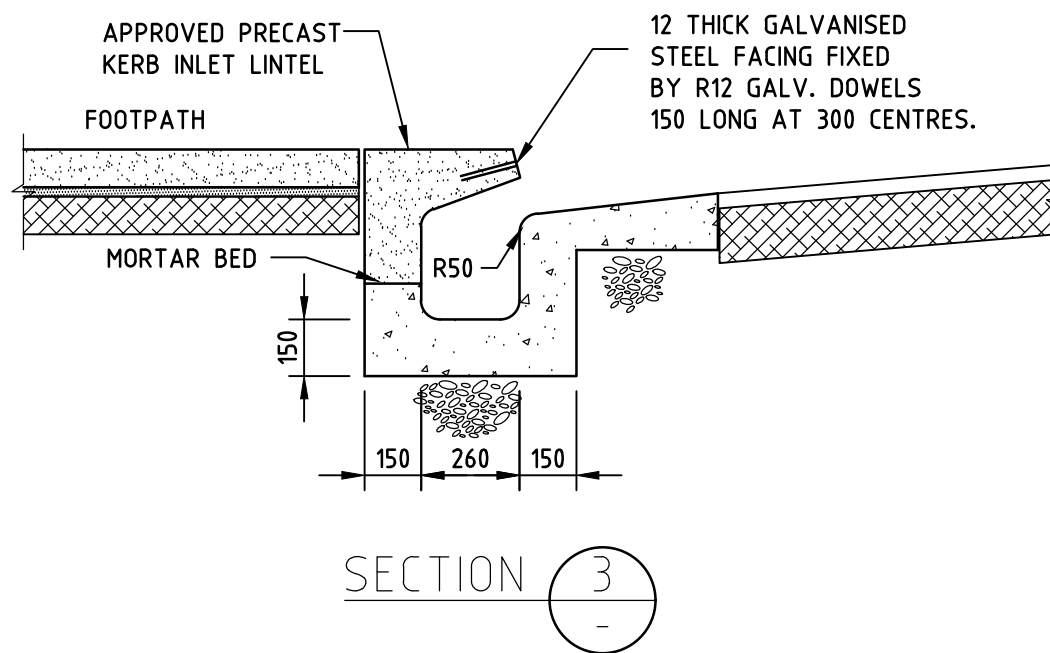
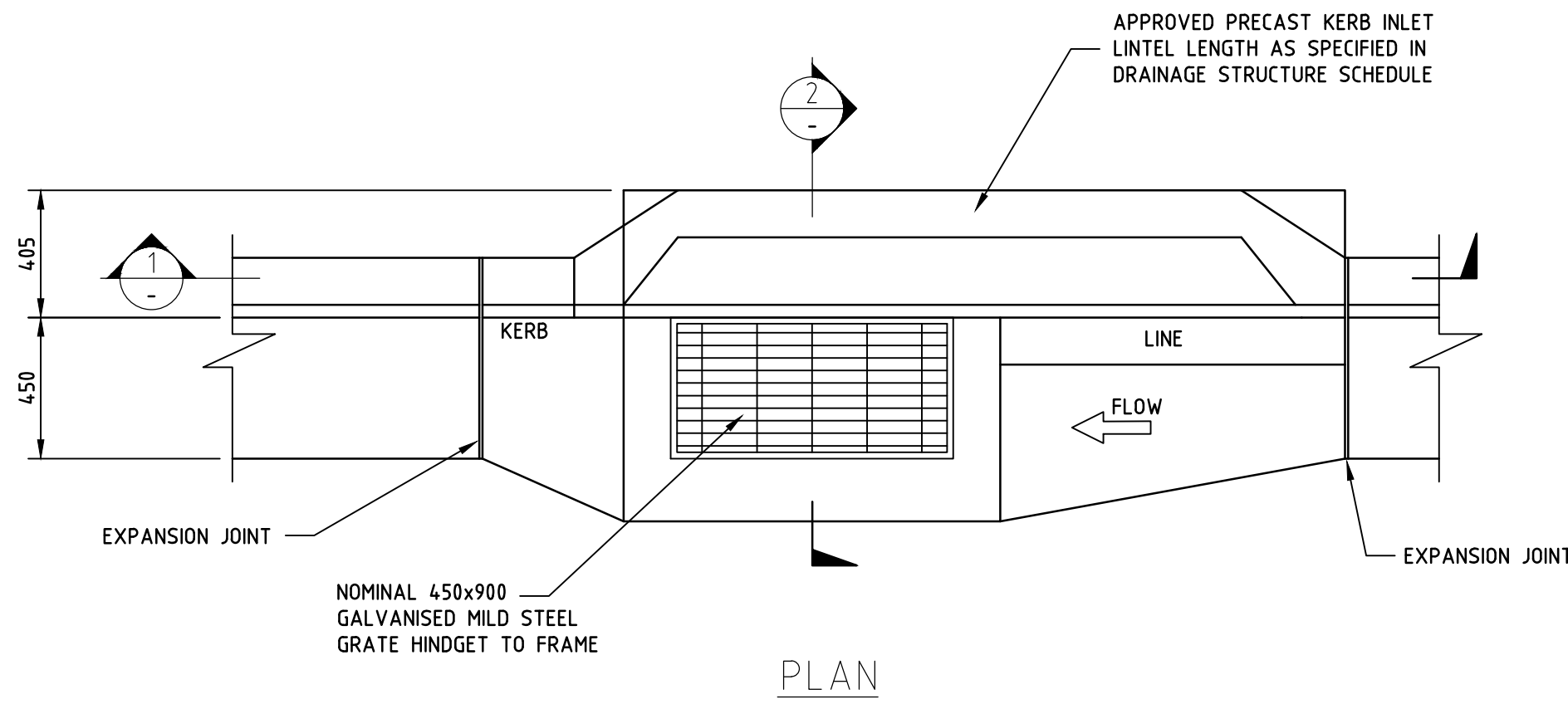
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Drawing :
GENERAL STORMWATER
INFRASTRUCTURE DETAILS

Job No :
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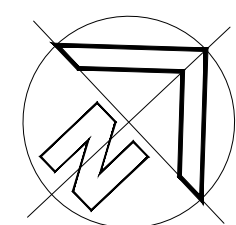


KERB INLET PIT TYPE "A" (PIPE SIZES < 450Ø)

SCALE 1 : 20
PROVIDE STEO IRONS FOR ALL PITS > 1200 DEEP

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Drawing :

STORMWATER PIT DETAILS
SHEET 2

Job No :

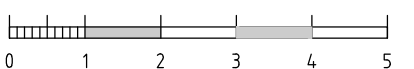
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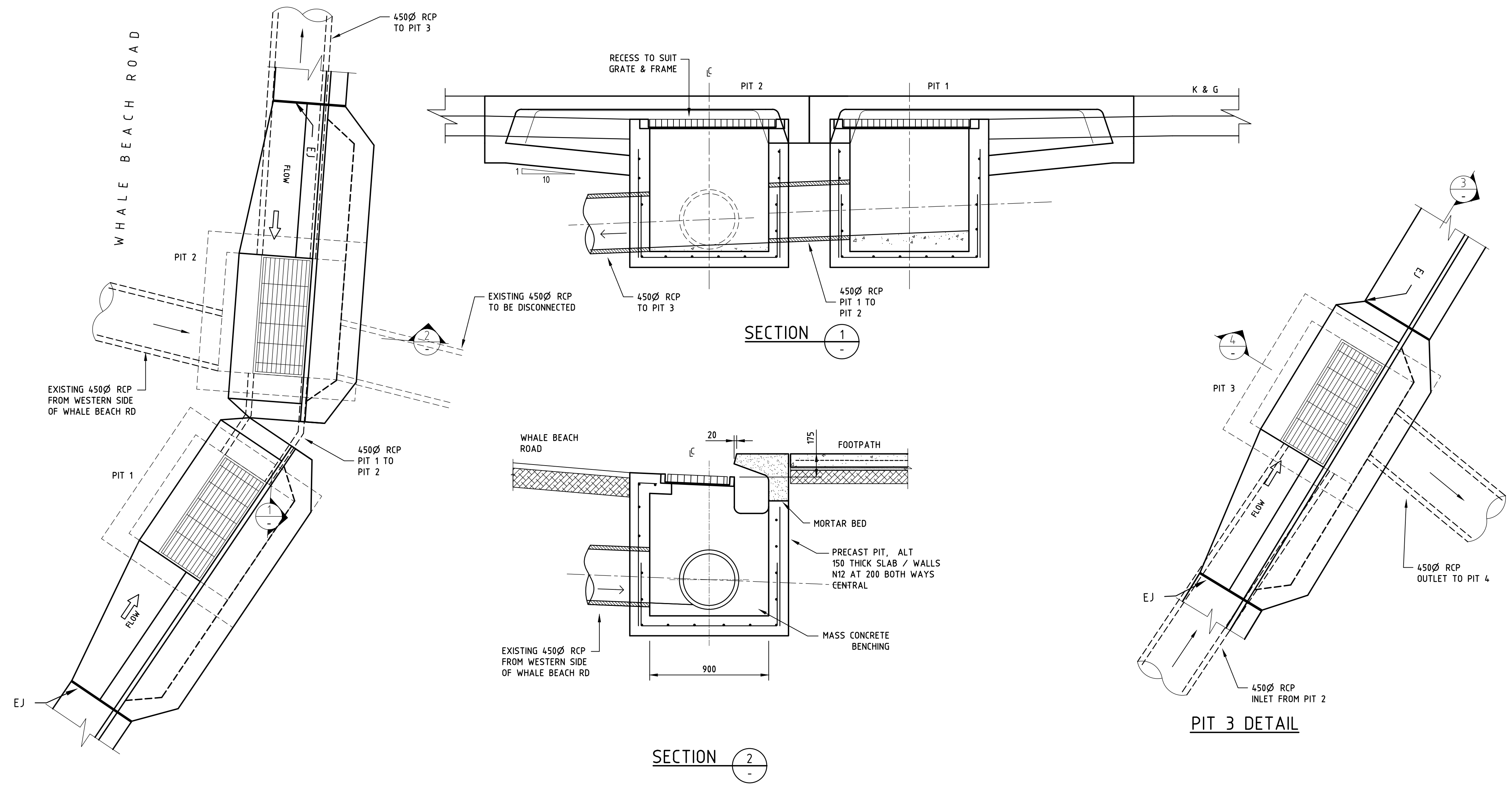
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SW2.05 02

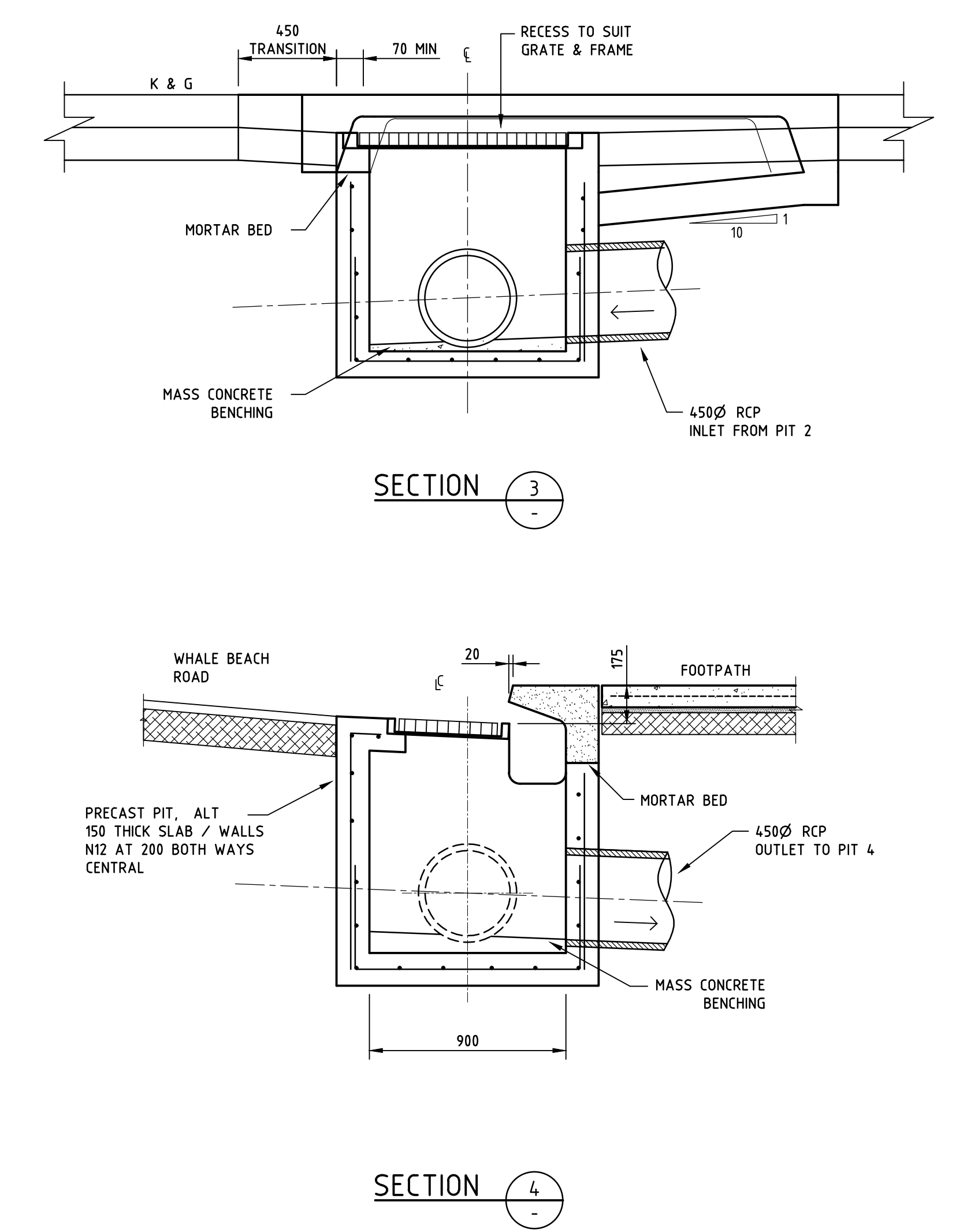
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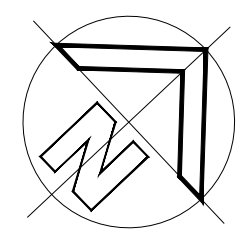
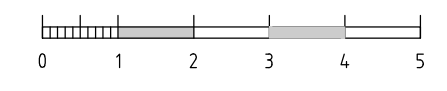


PIT 1 AND PIT 2 DETAIL



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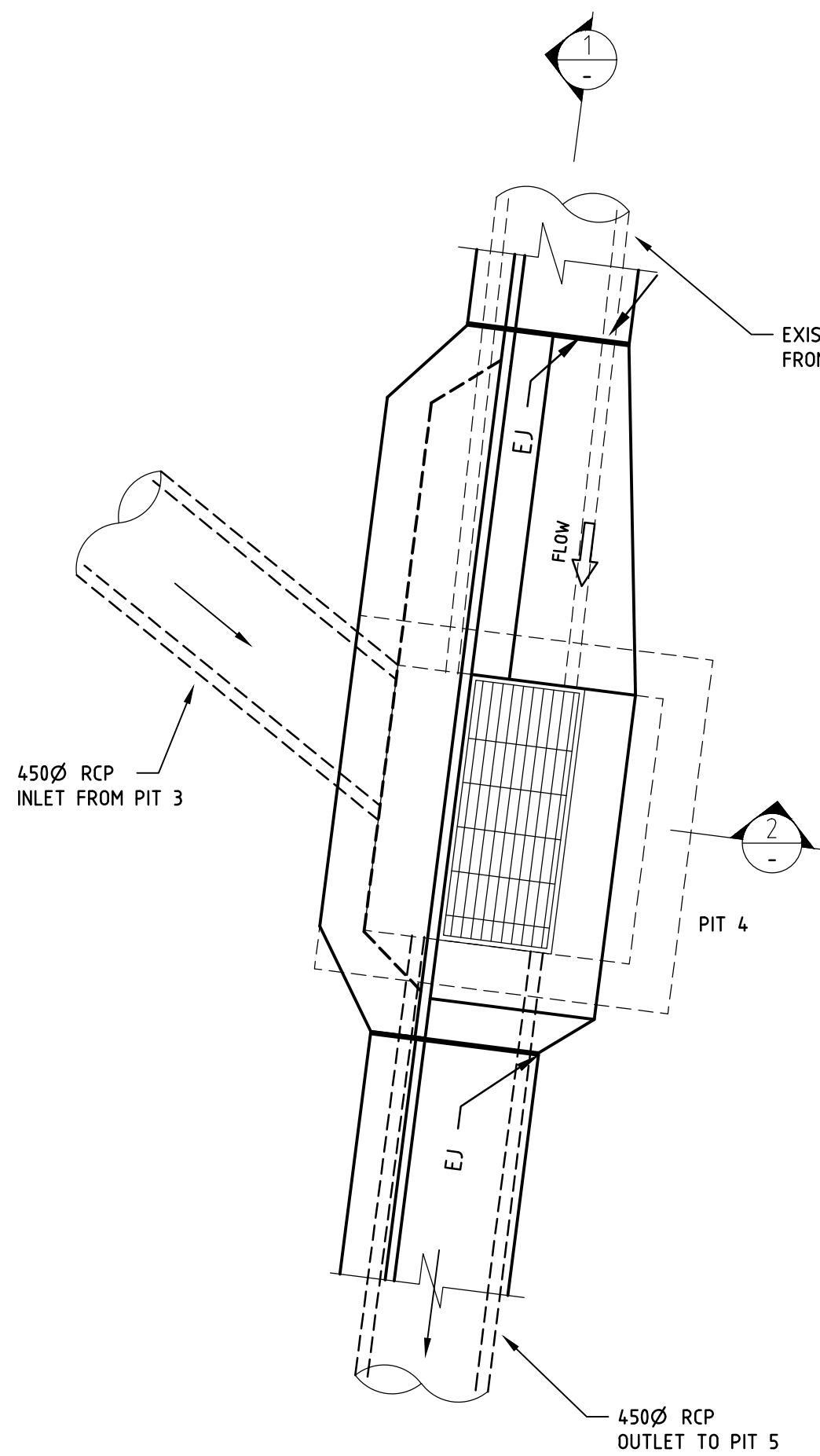
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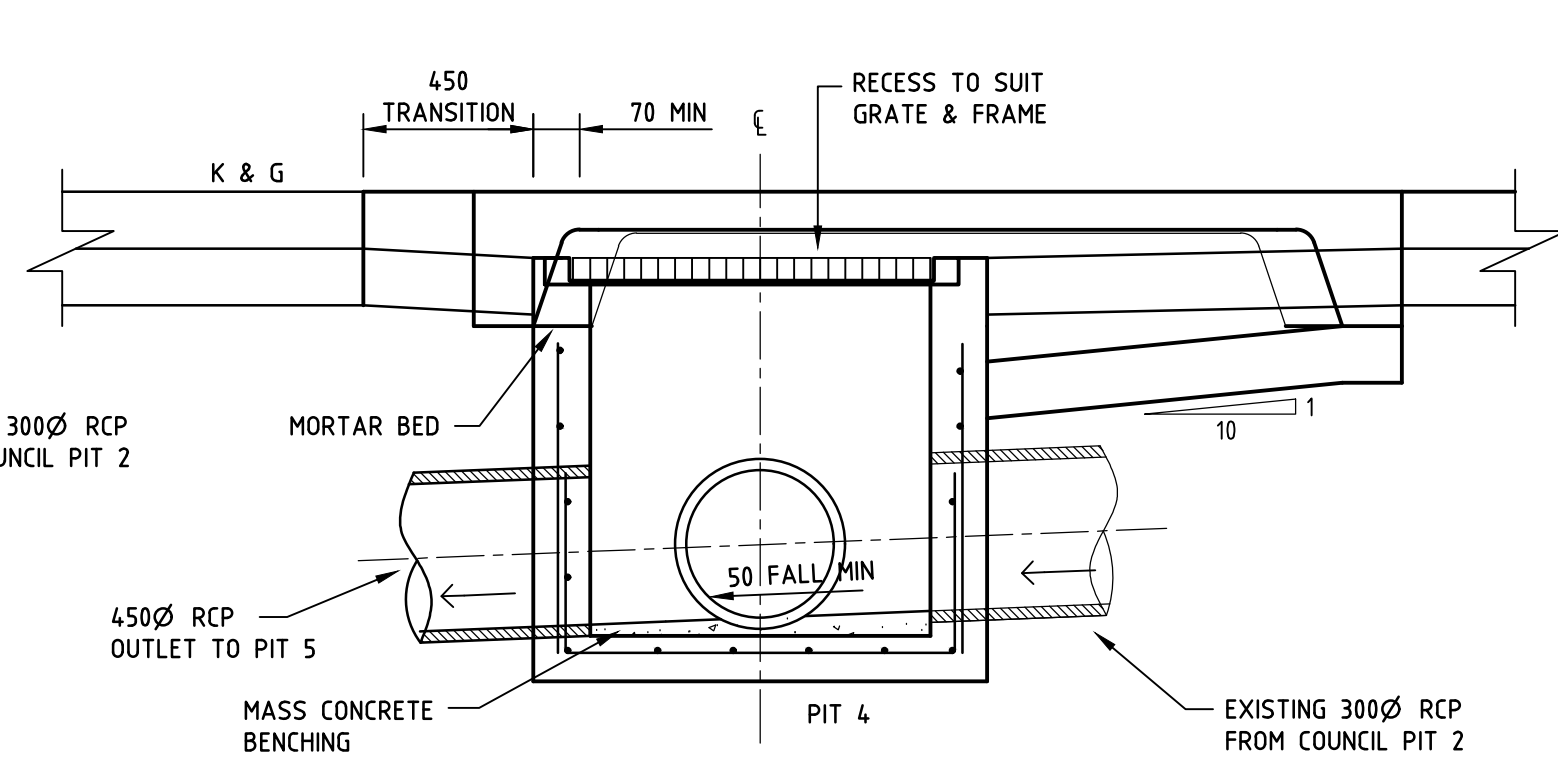
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Drawing :
 STORMWATER PIT DETAILS
 SHEET 3

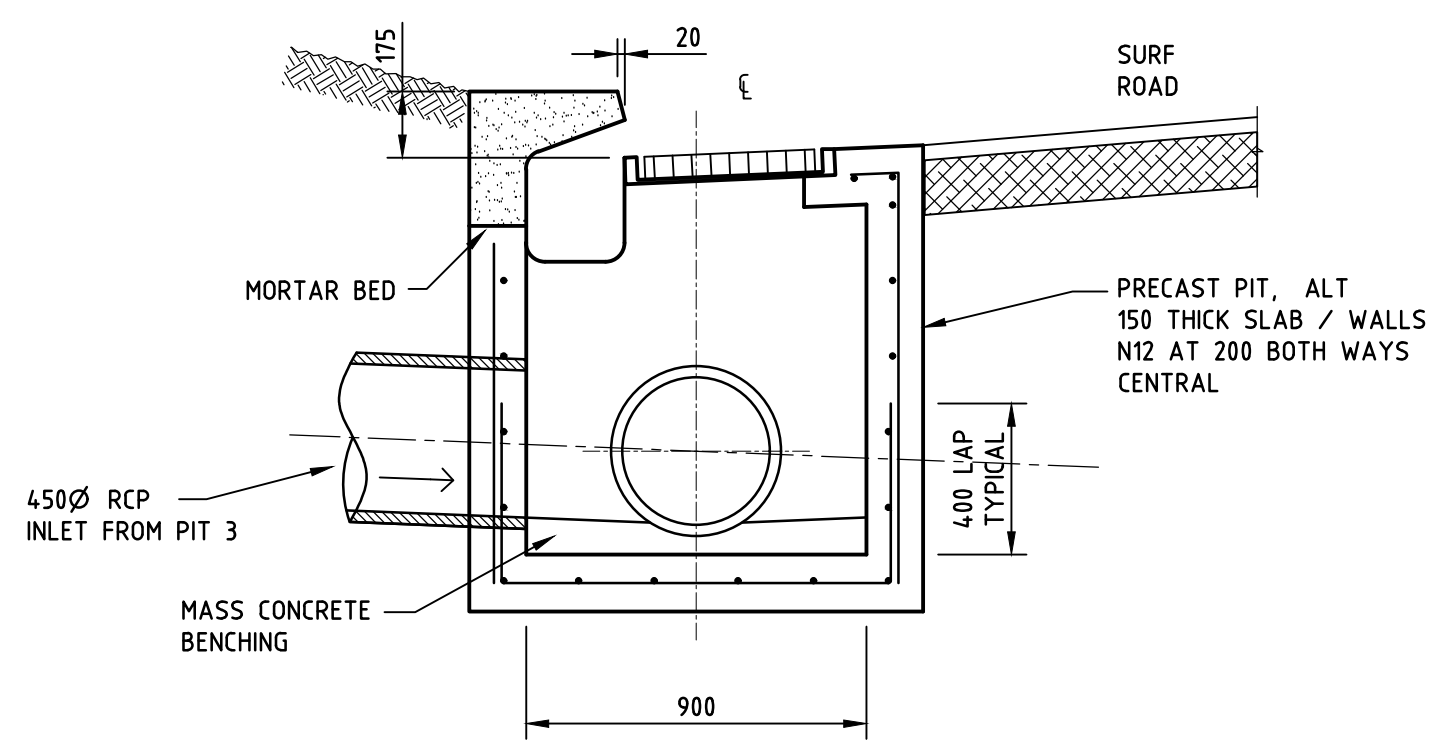
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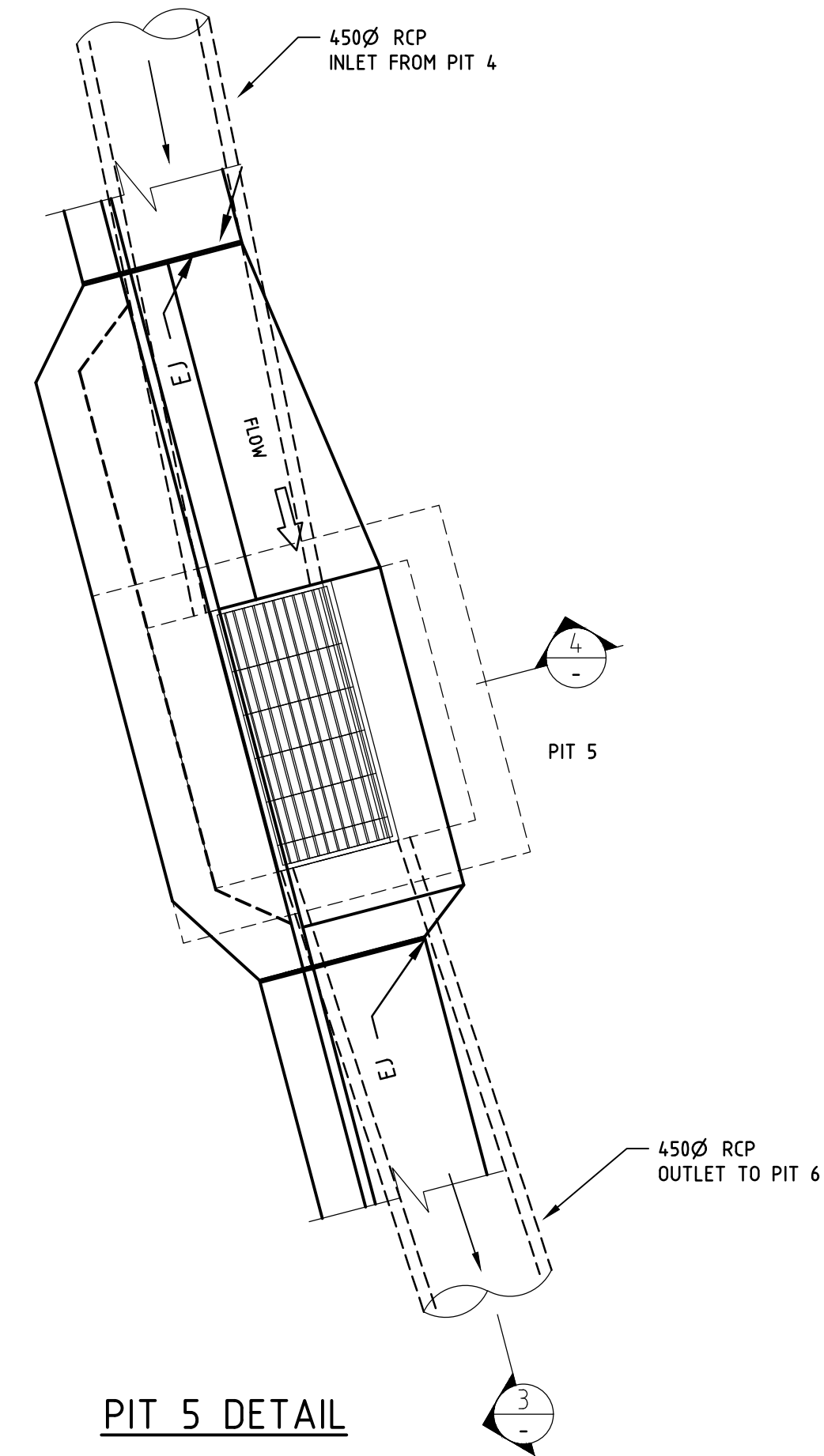
PIT 4 DETAIL



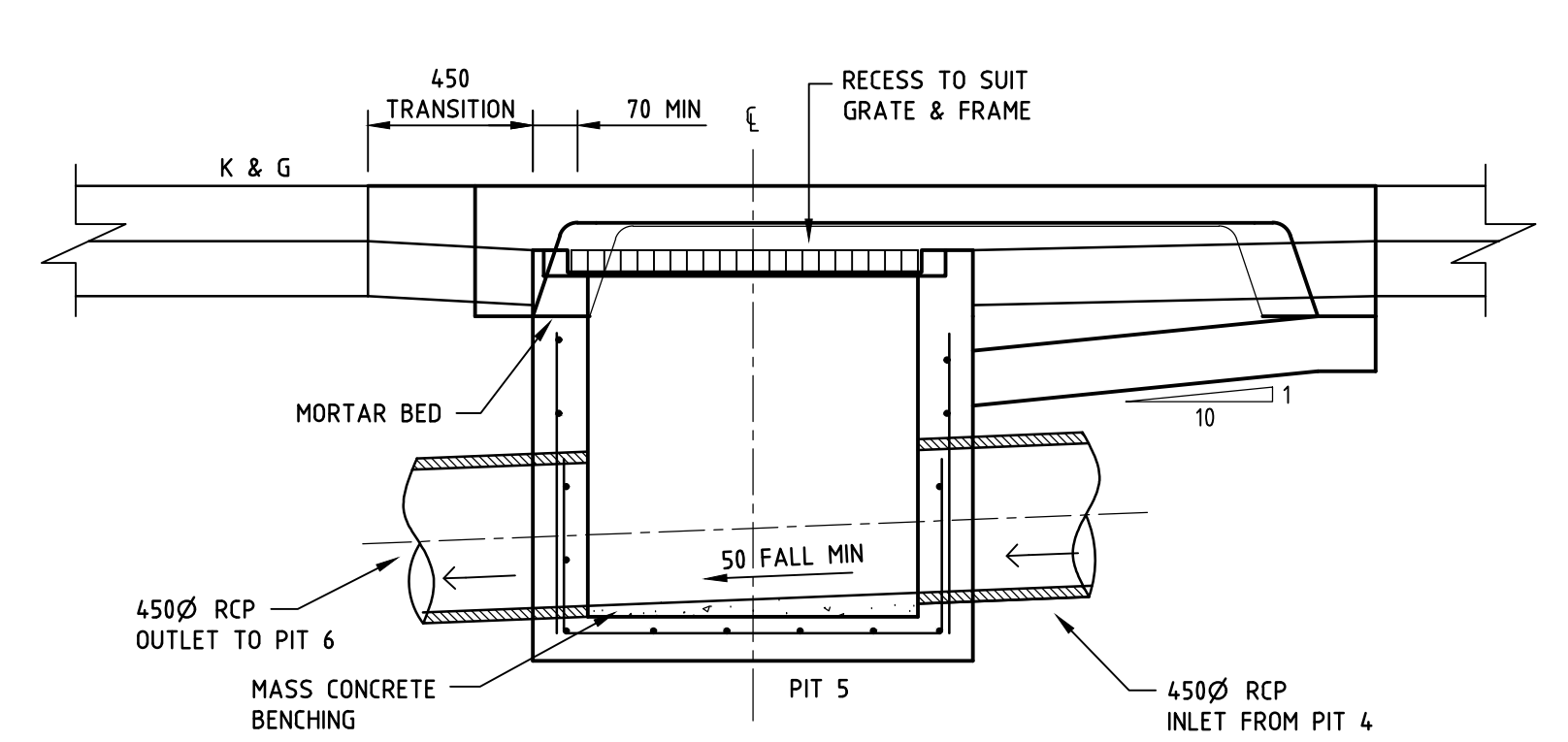
SECTION 1



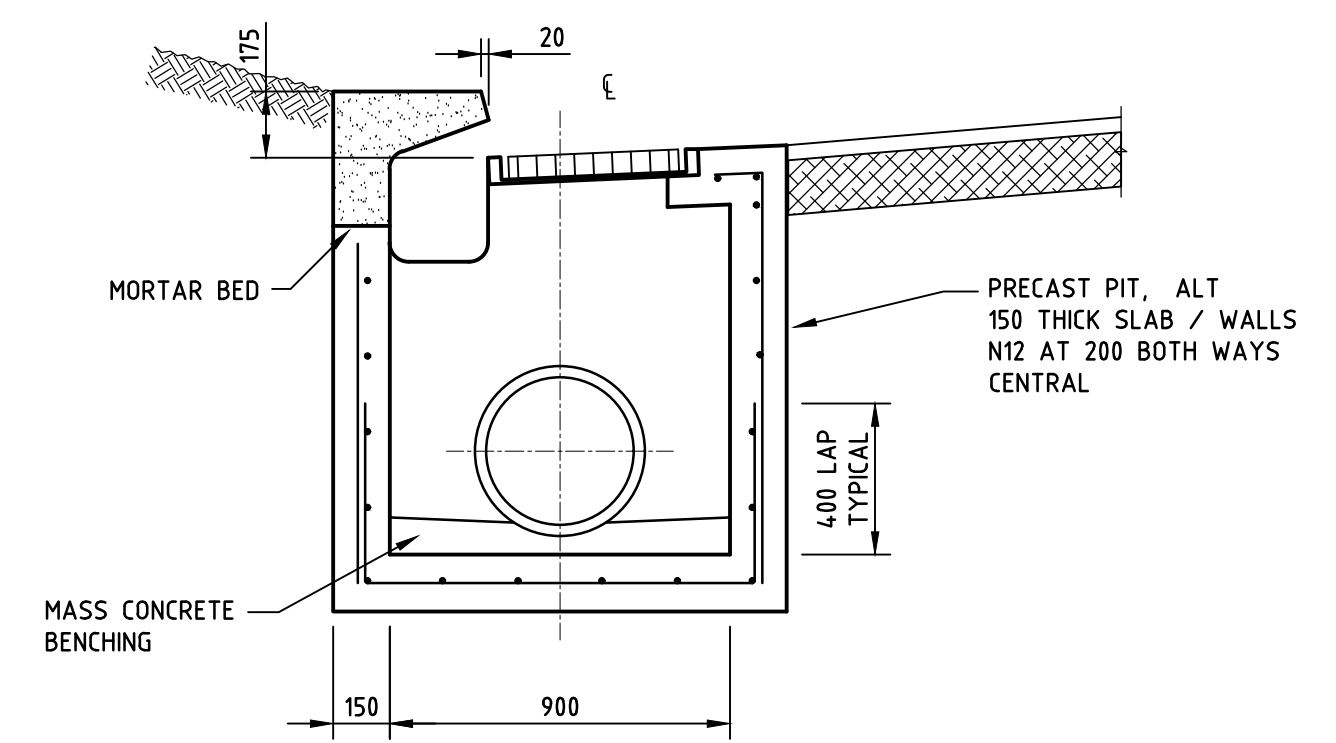
SECTION 2



PIT 5 DETAIL



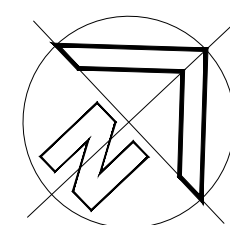
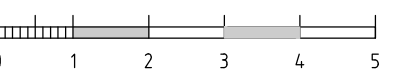
SECTION 3



SECTION 4

PRELIMINARY

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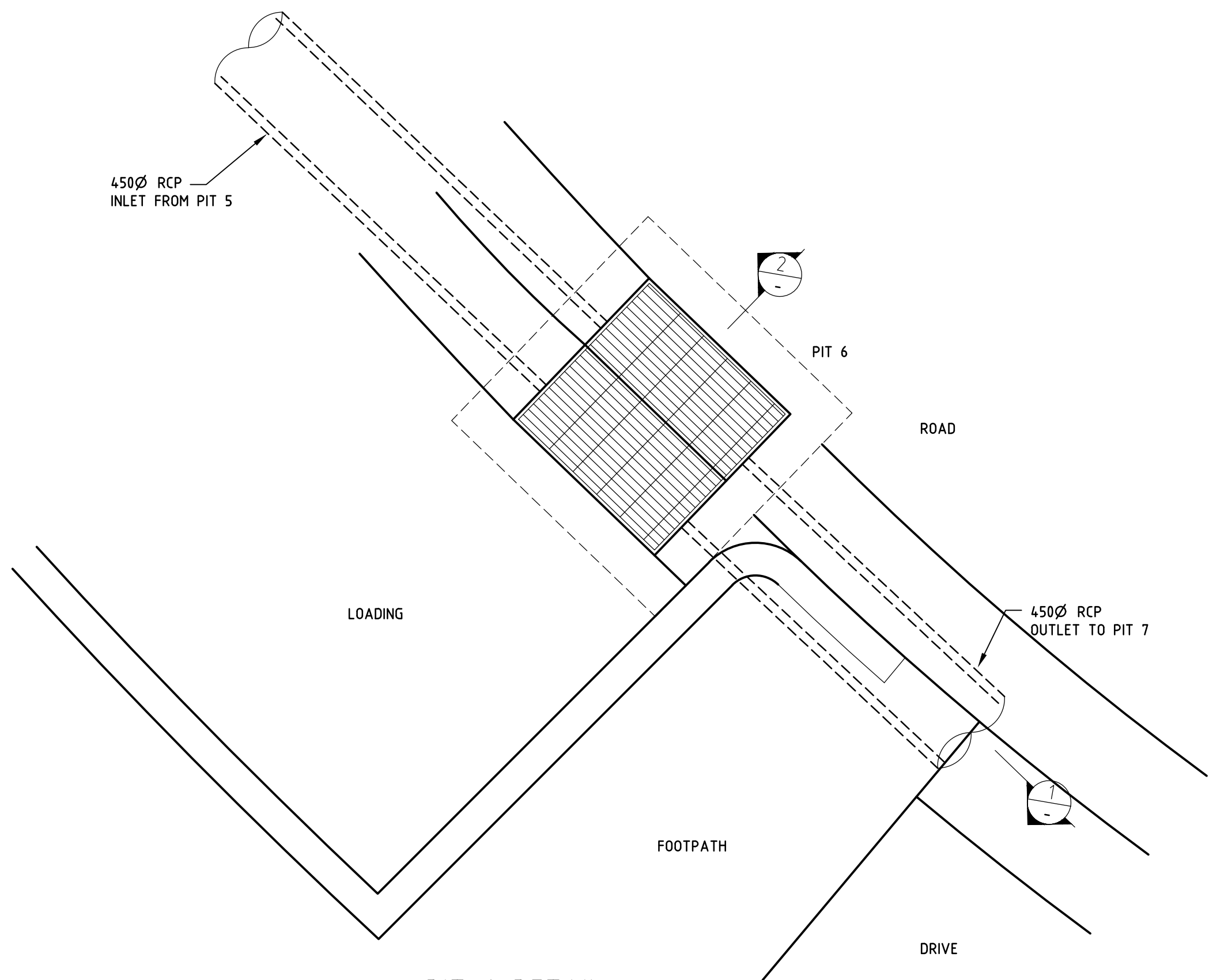
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02	ISSUED FOR APPROVAL	A.C.W.	L.M.	22.02.24
01	ISSUED FOR COMMENTS	A.C.W.	L.M.	21.12.23

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ACN: 124 694 917

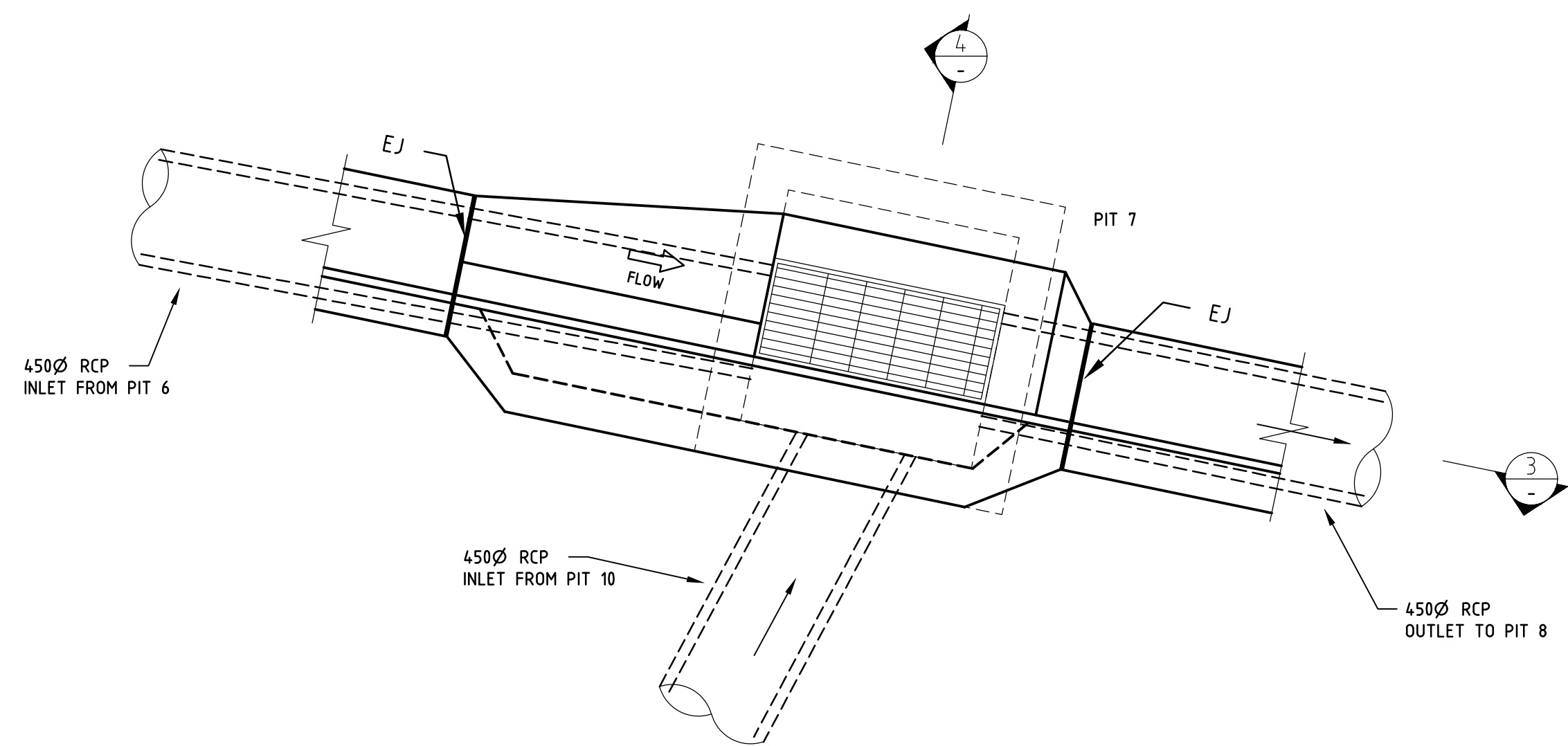
Project :
WHALE BEACH NEIGHBOURHOOD CENTRE
231 WHALE BEACH ROAD
WHALE BEACH N.S.W.
for LESLIE CASSAR

Drawing :
STORMWATER PIT DETAILS
SHEET 4

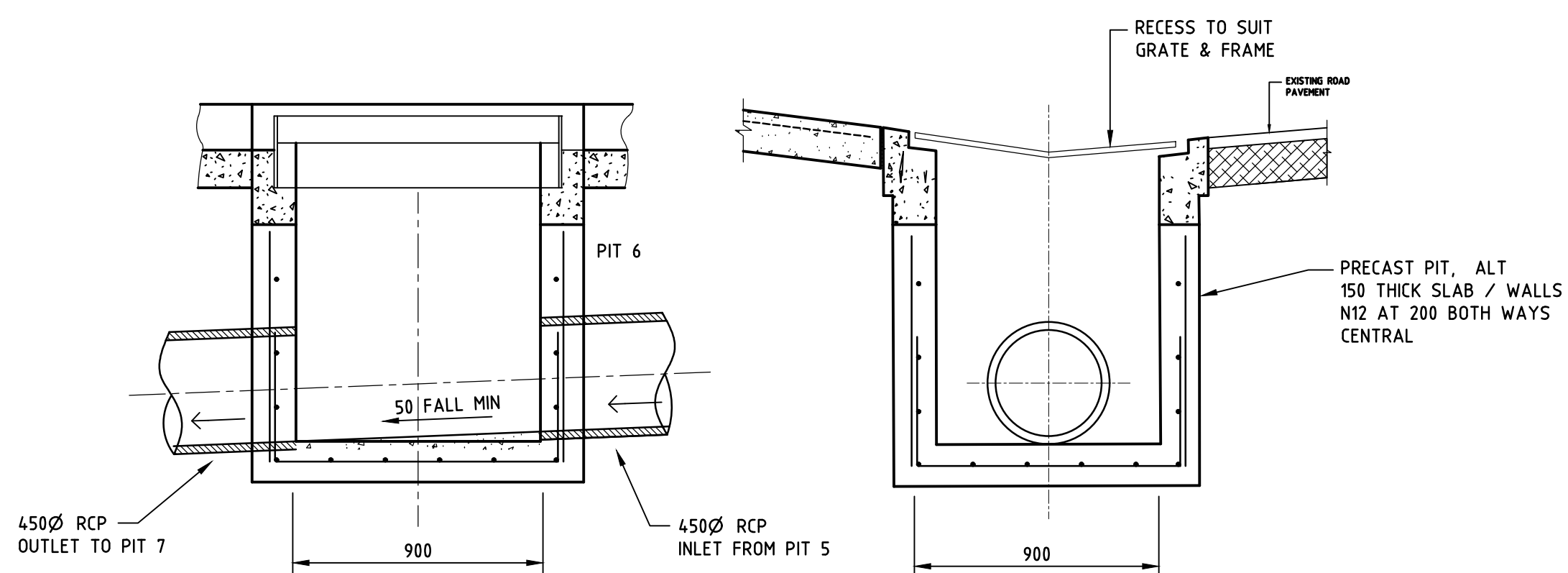
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Drawing No :
SW2.07 02
Document certification
Barrenjoey Consulting Engineers Pty Ltd
PER
Lucas Molloy MIEA CPEng NPER Director



PIT 6 DETAIL

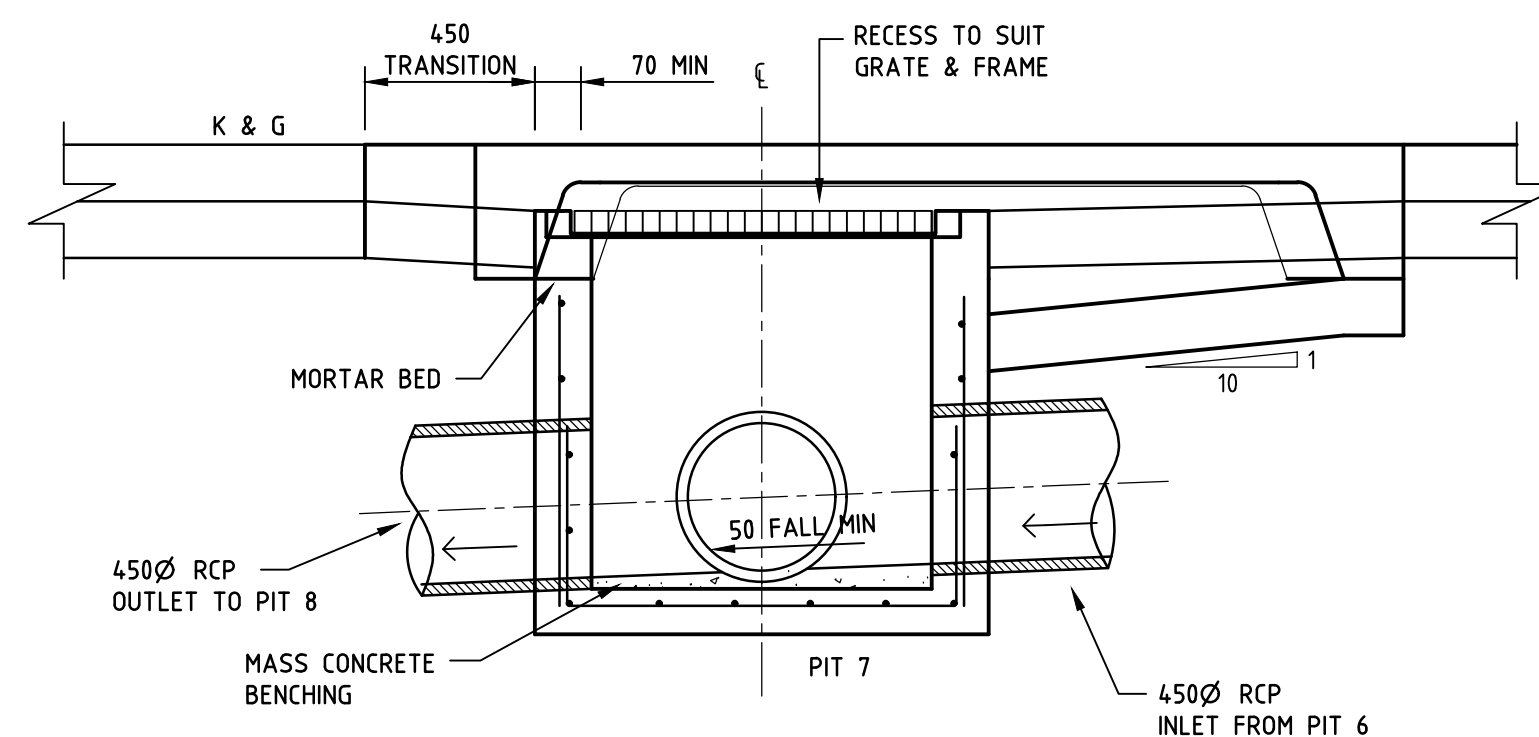


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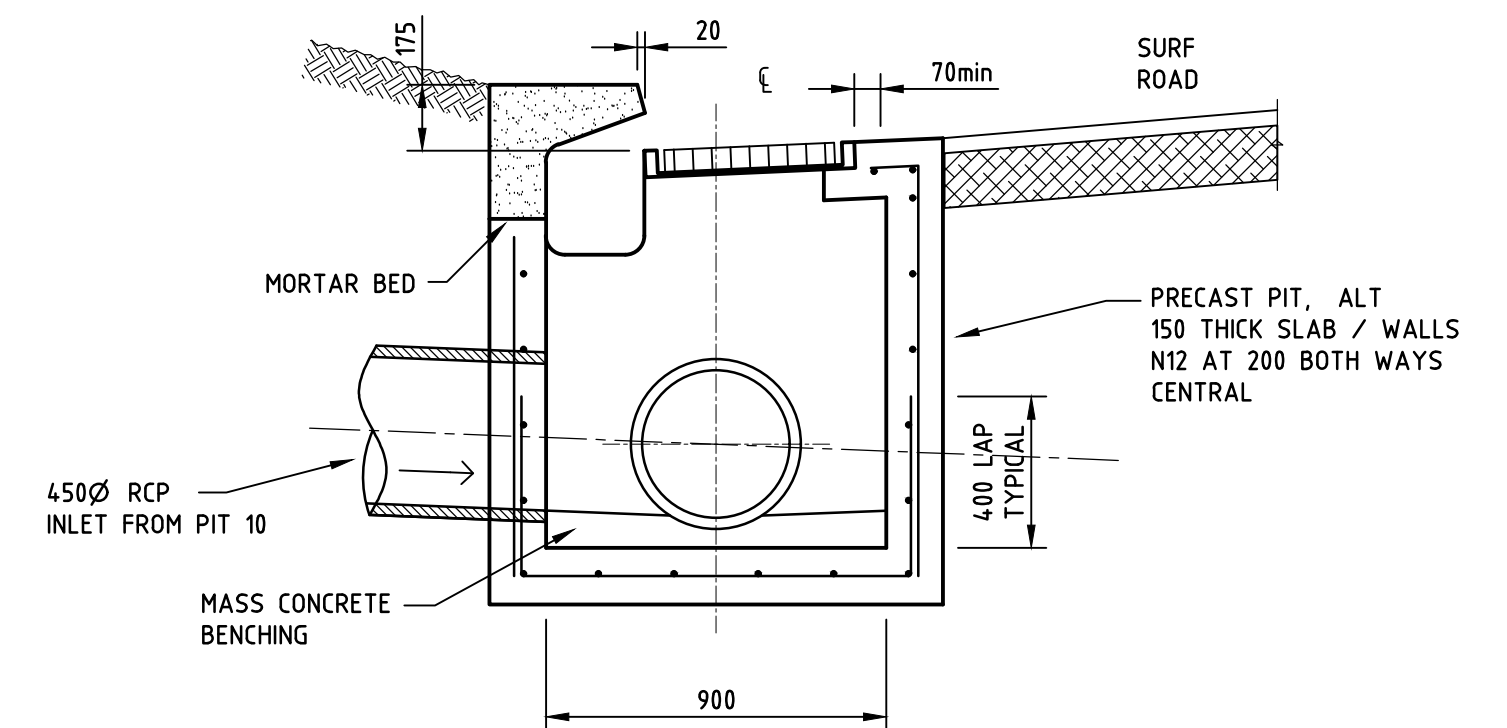


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SECTION 2



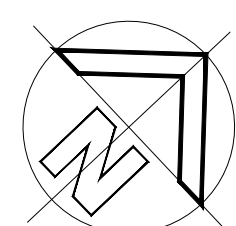
SECTION 3



SECTION 4

PRELIMINARY

NOT FOR CONSTRUCTION



REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
02	ISSUED FOR APPROVAL	A.C.W.	L.M.	22.02.24
01	ISSUED FOR COMMENTS	A.C.W.	L.M.	21.12.23

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WHALE BEACH N.S.W.
for LESLIE CASSAR

Drawing:

STORMWATER PIT DETAILS
SHEET 5

Job No:

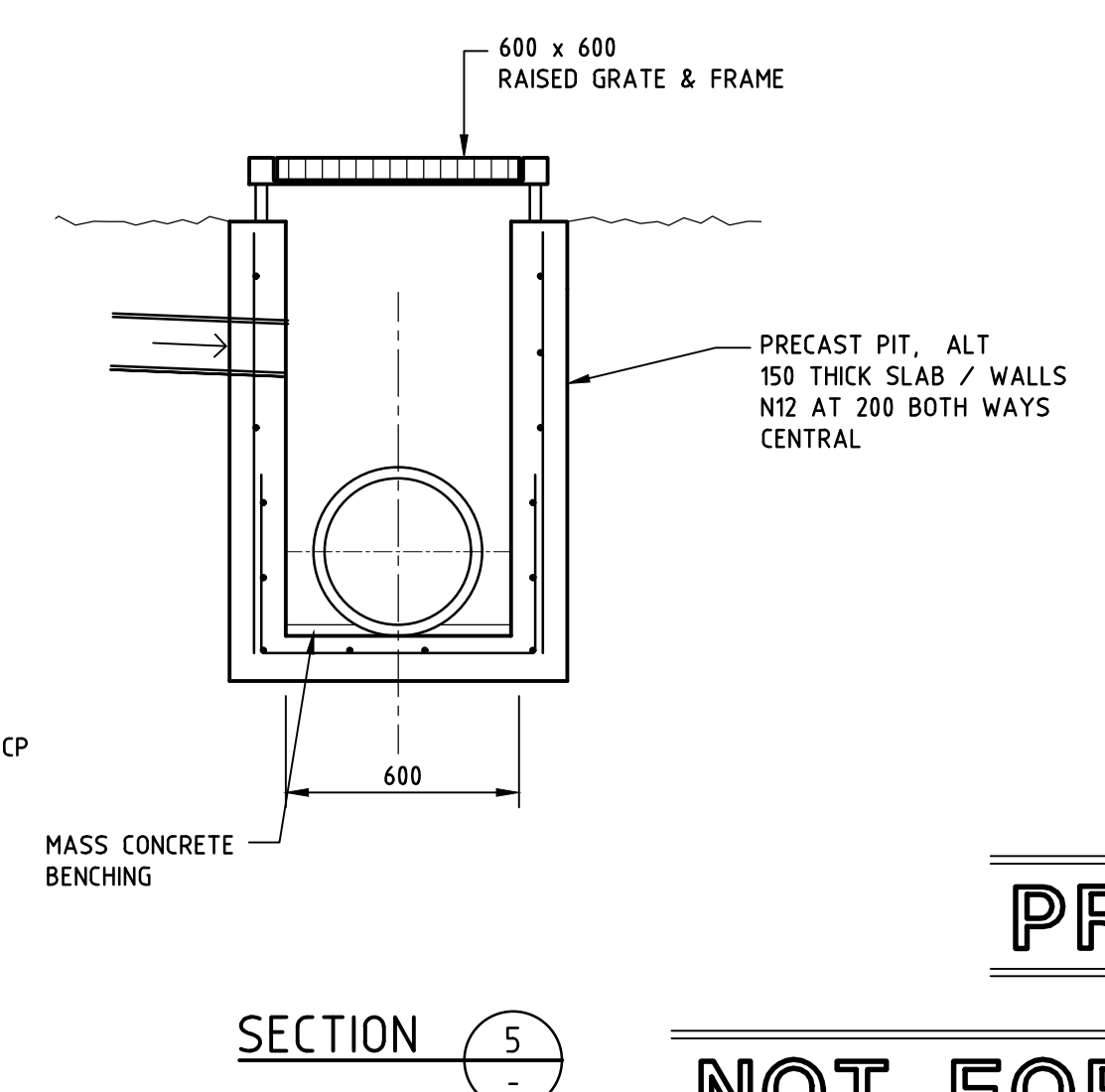
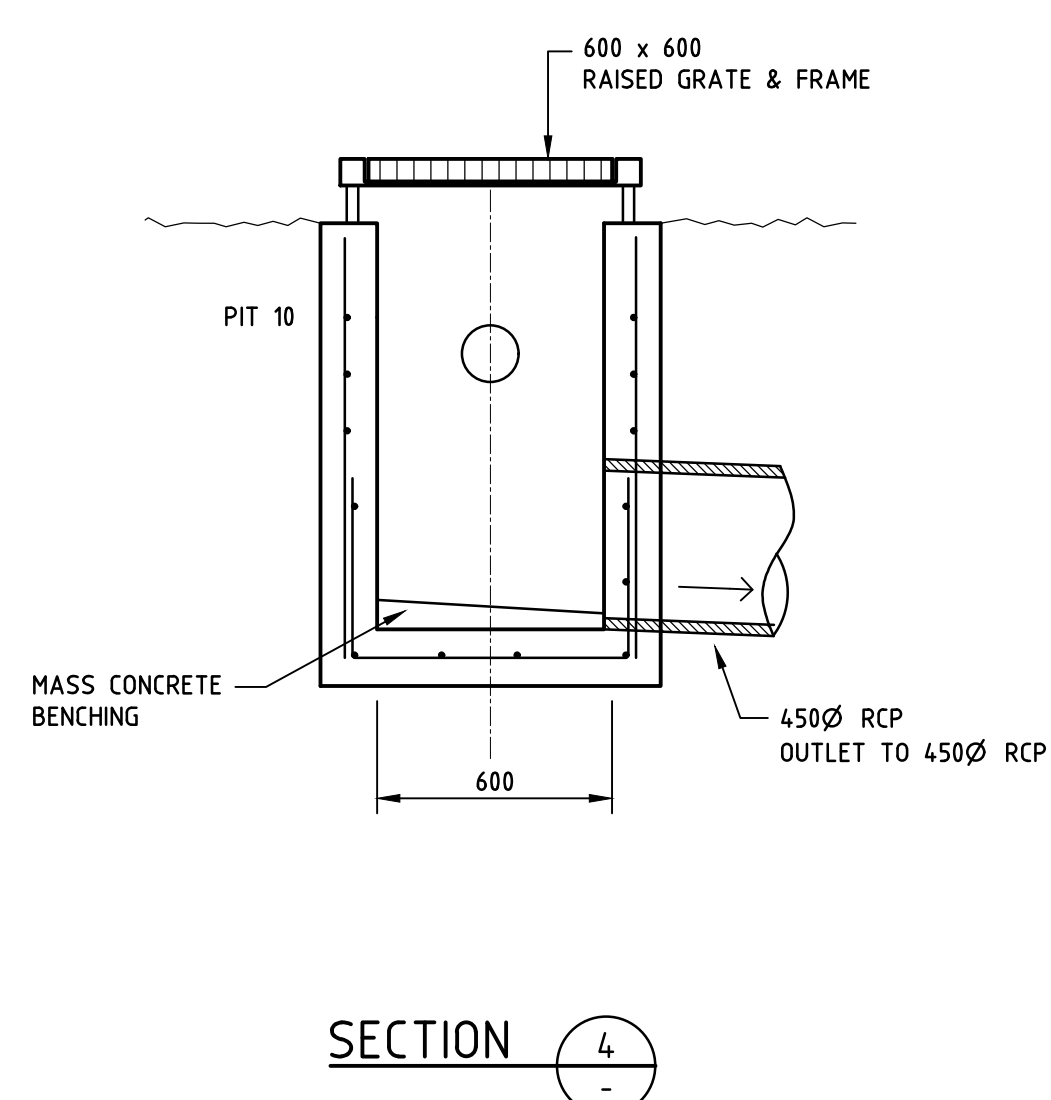
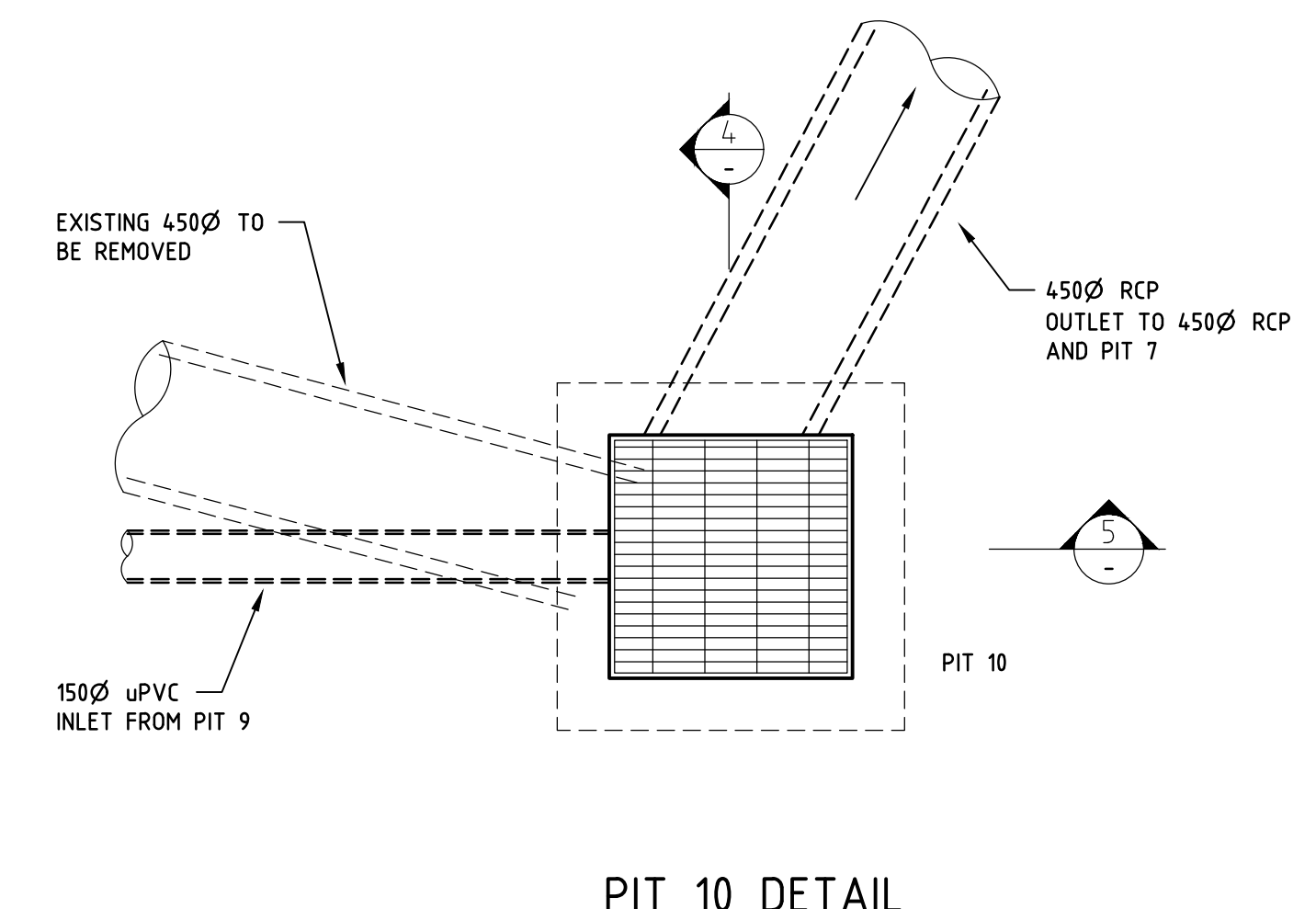
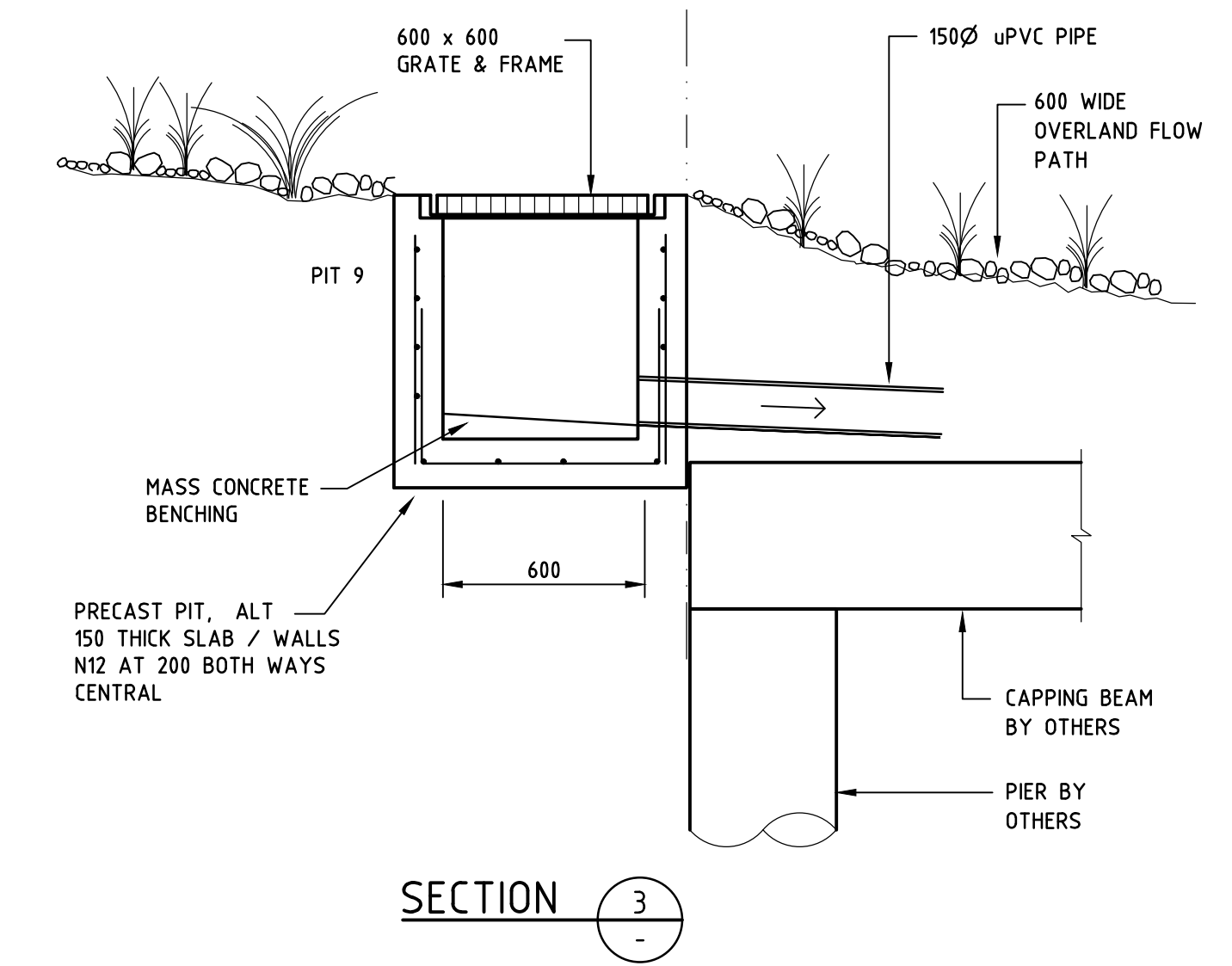
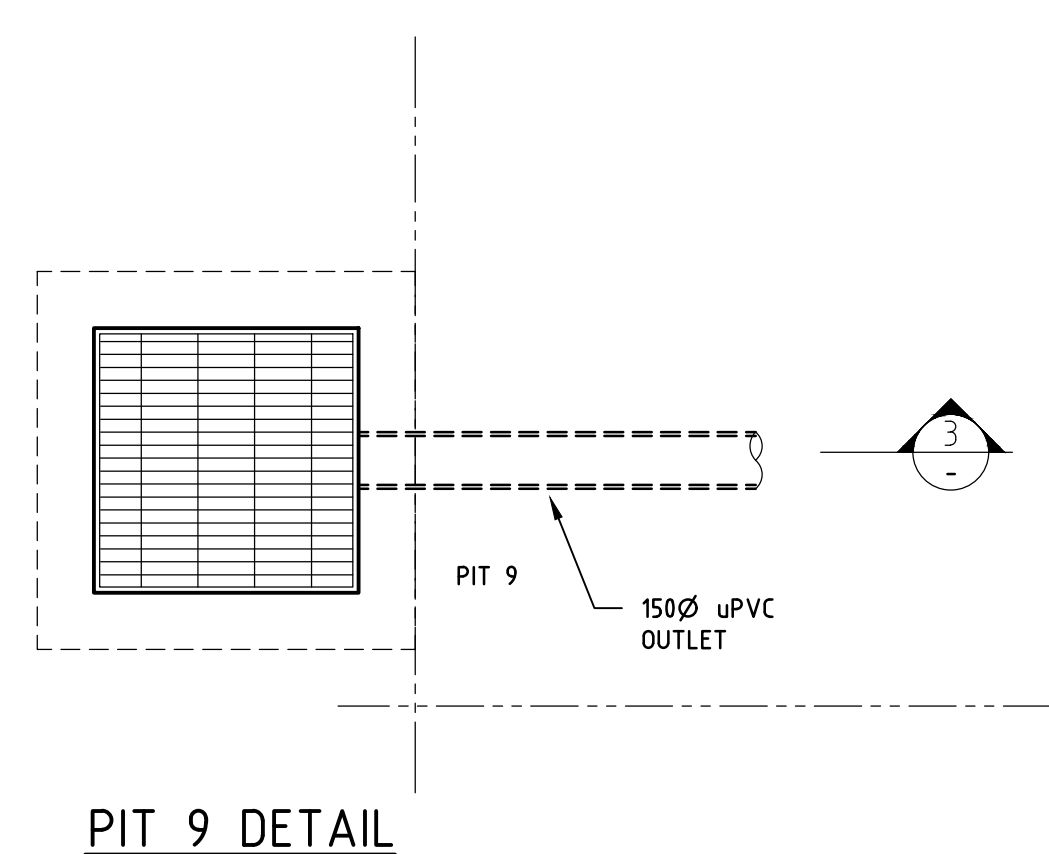
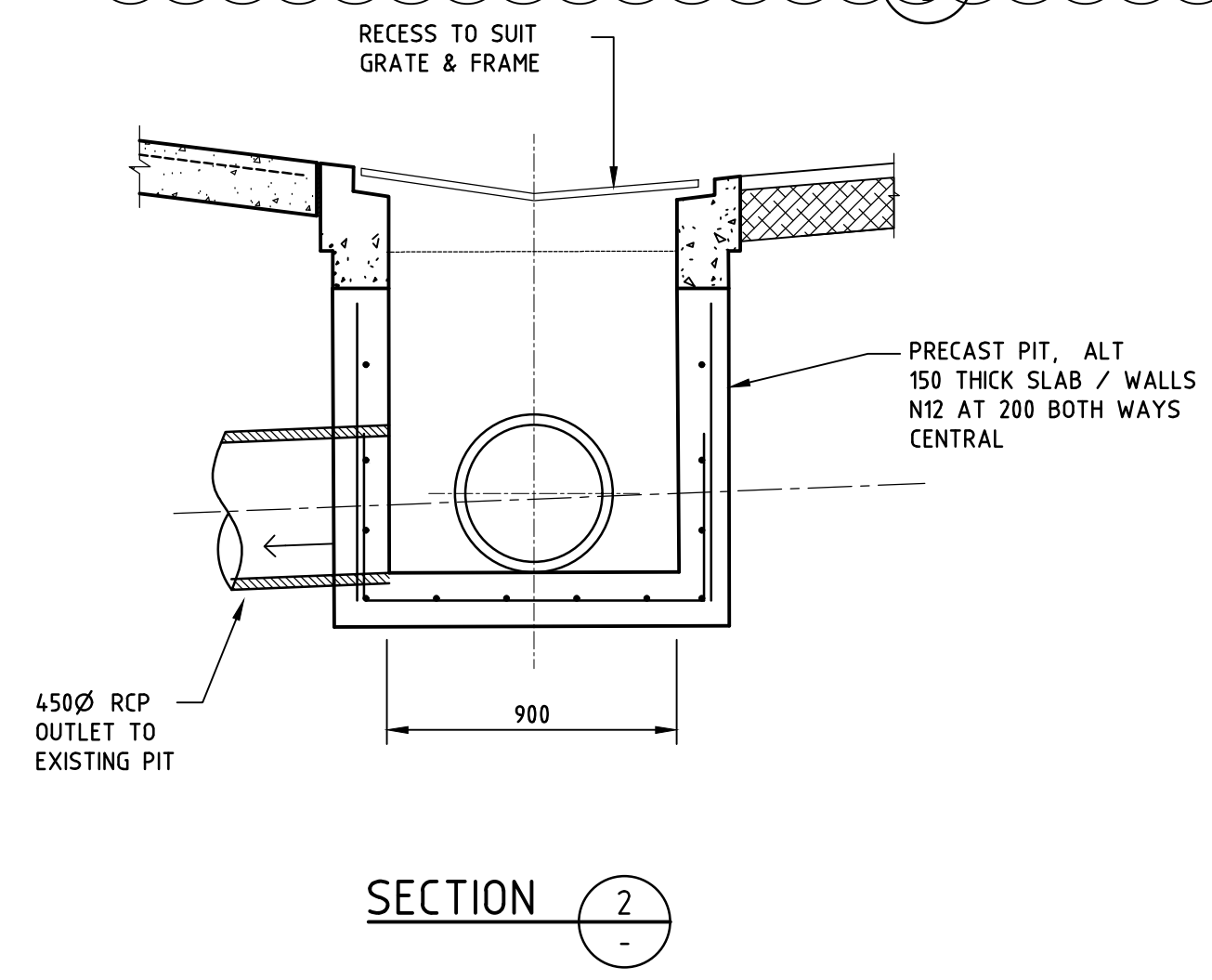
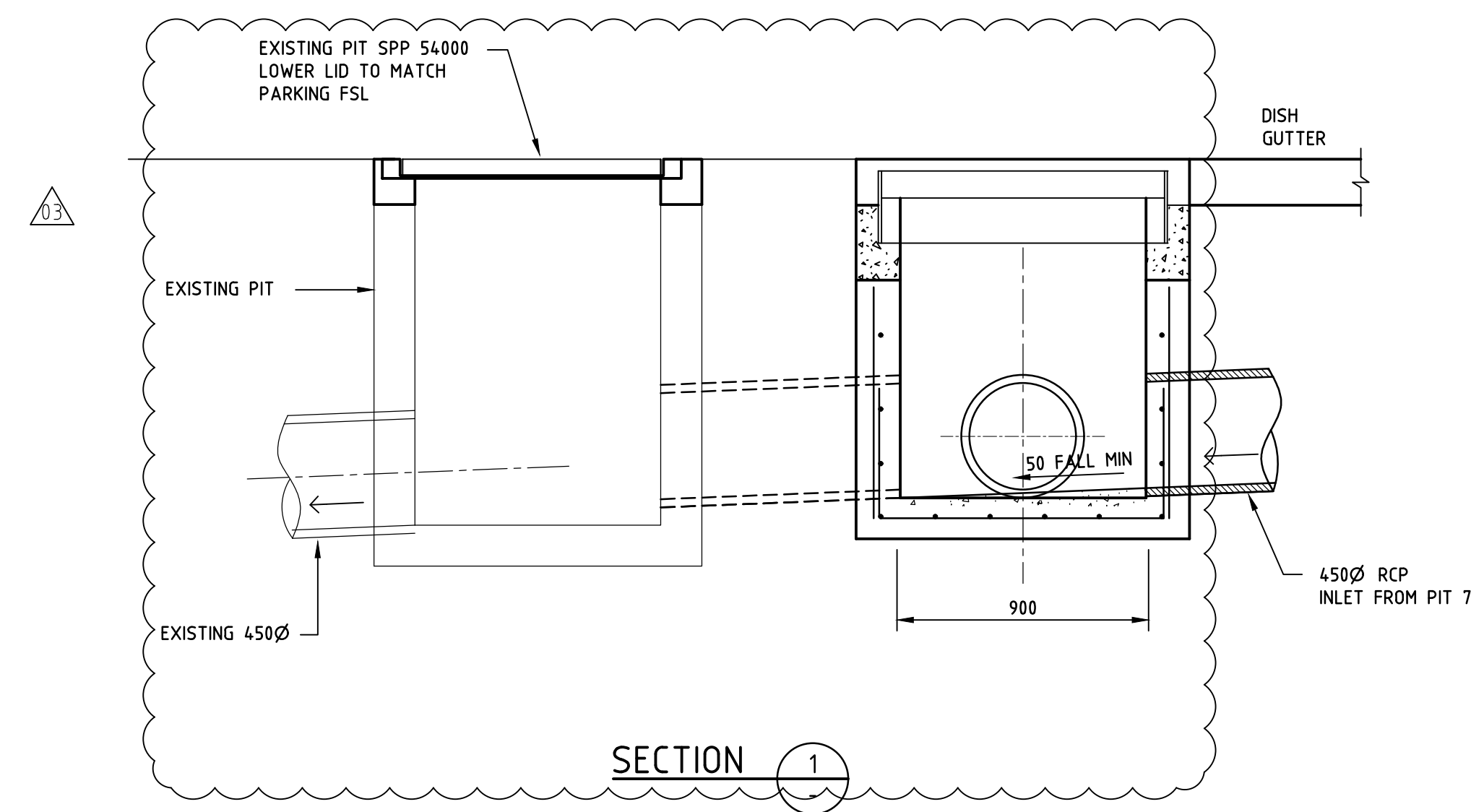
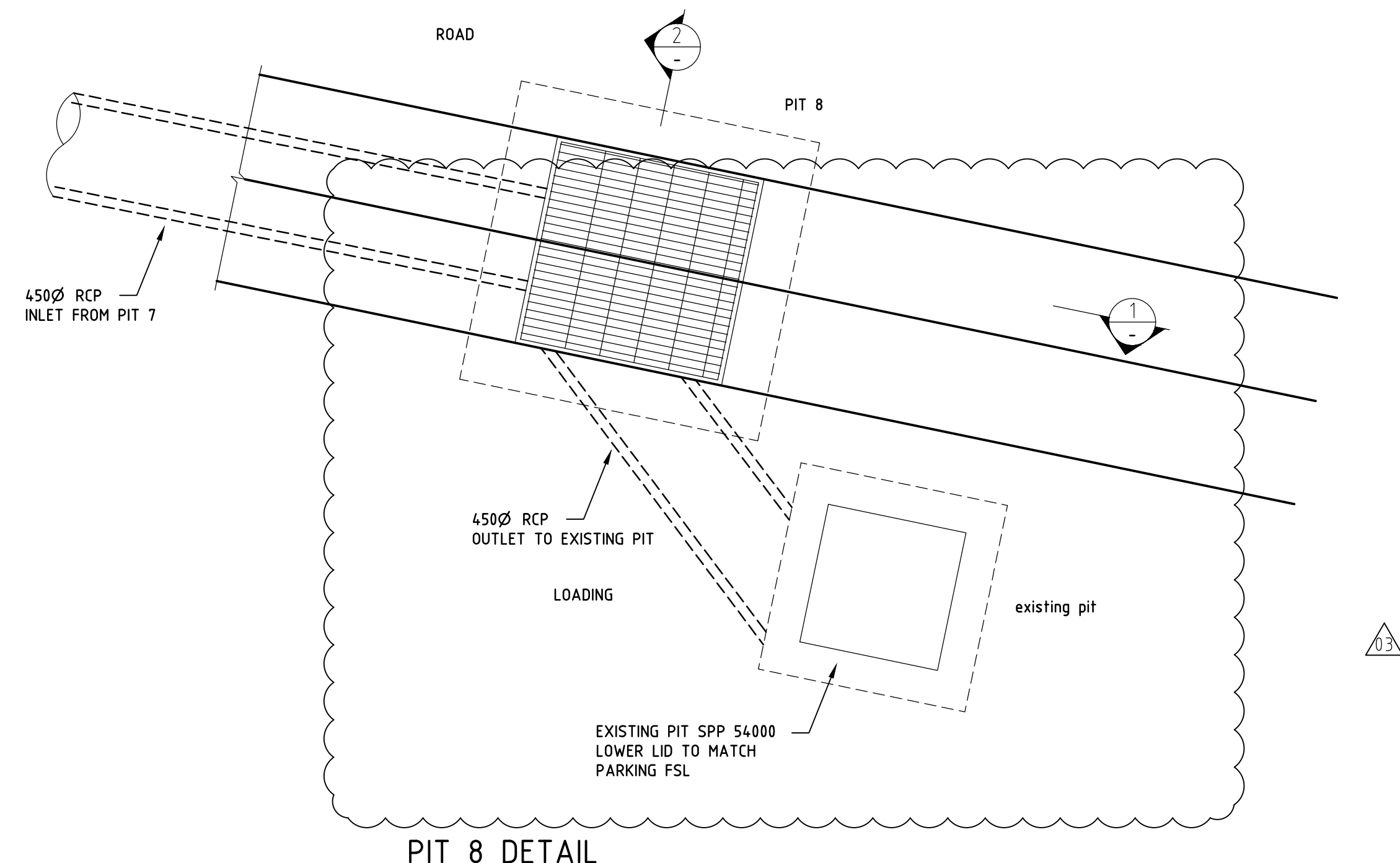
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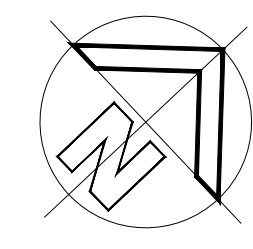
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Document certification
Barrenjoey Consulting Engineers Pty Ltd

PER
Lucas Molloy MIEA CPEng NPFR Director



PRELIMINARY
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REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
03	REVISED AS CLOUDED	A.C.W.	L.M.	09.10.24
02	ISSUED FOR APPROVAL	A.C.W.	L.M.	22.02.24
01	ISSUED FOR COMMENTS	A.C.W.	L.M.	21.12.23

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for LESLIE CASSAR

Drawing :
STORMWATER PIT DETAILS
SHEET 6

Job No :
190210
Drawing No :
SW2.09 03
Document certification
Barrenjoey Consulting Engineers Pty Ltd
PER
Lucas Molloy MIEA CPEng NPER Director

