


INLET WORKS
SITE PLAN

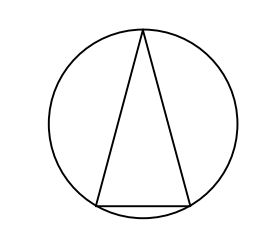
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0	01.03.24	ISSUED FOR TENDER		BD	MW	BD	GD	CKB
REV	DATE	REVISION DESCRIPTION		DRAWN	CHECKED	DESIGNED	APPROVED	CLIENT




WISE
WATER INFRASTRUCTURE
SCIENCE ENGINEERING

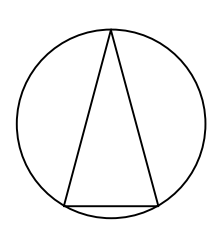
NORTH



CLIENT



NORTH

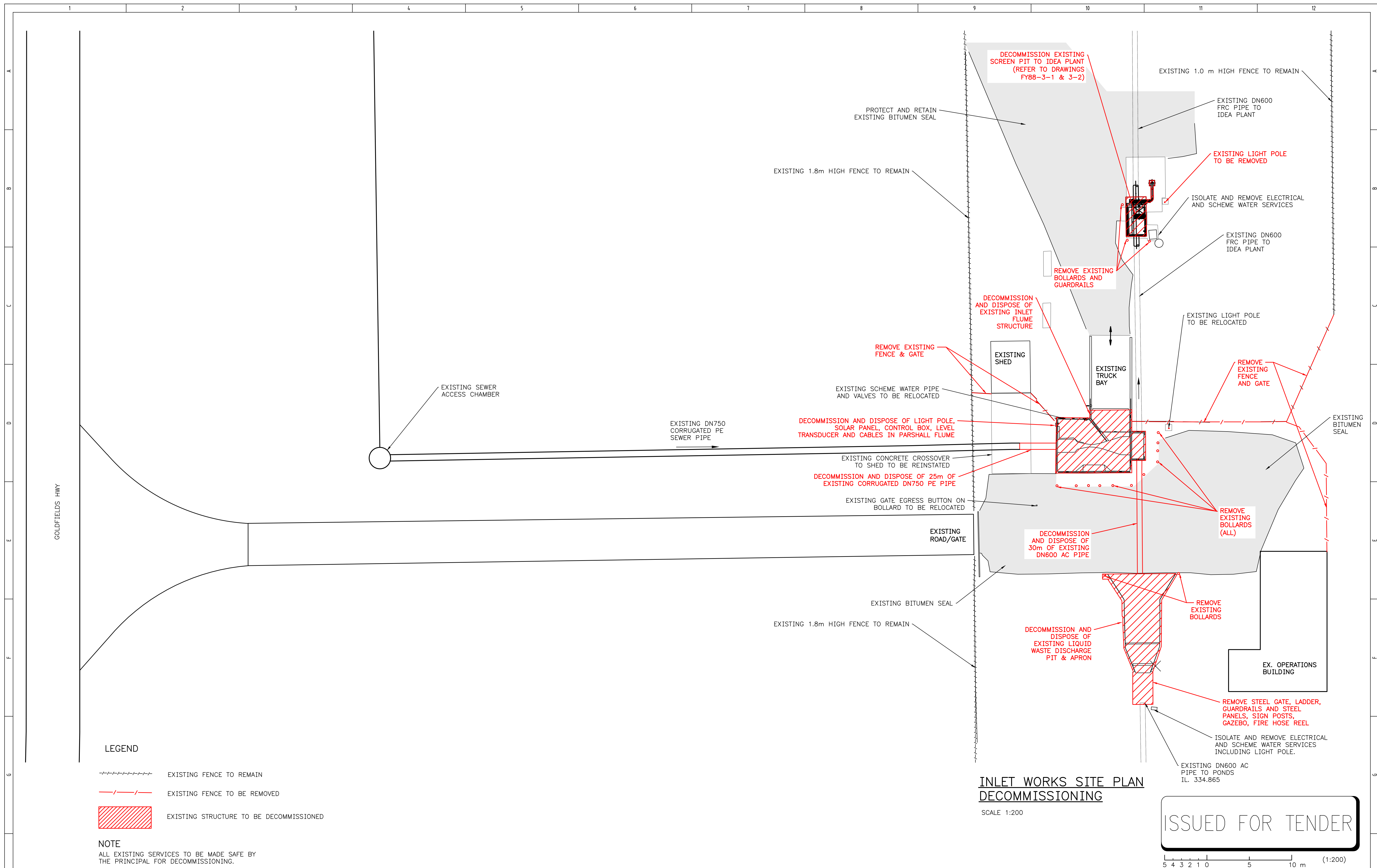


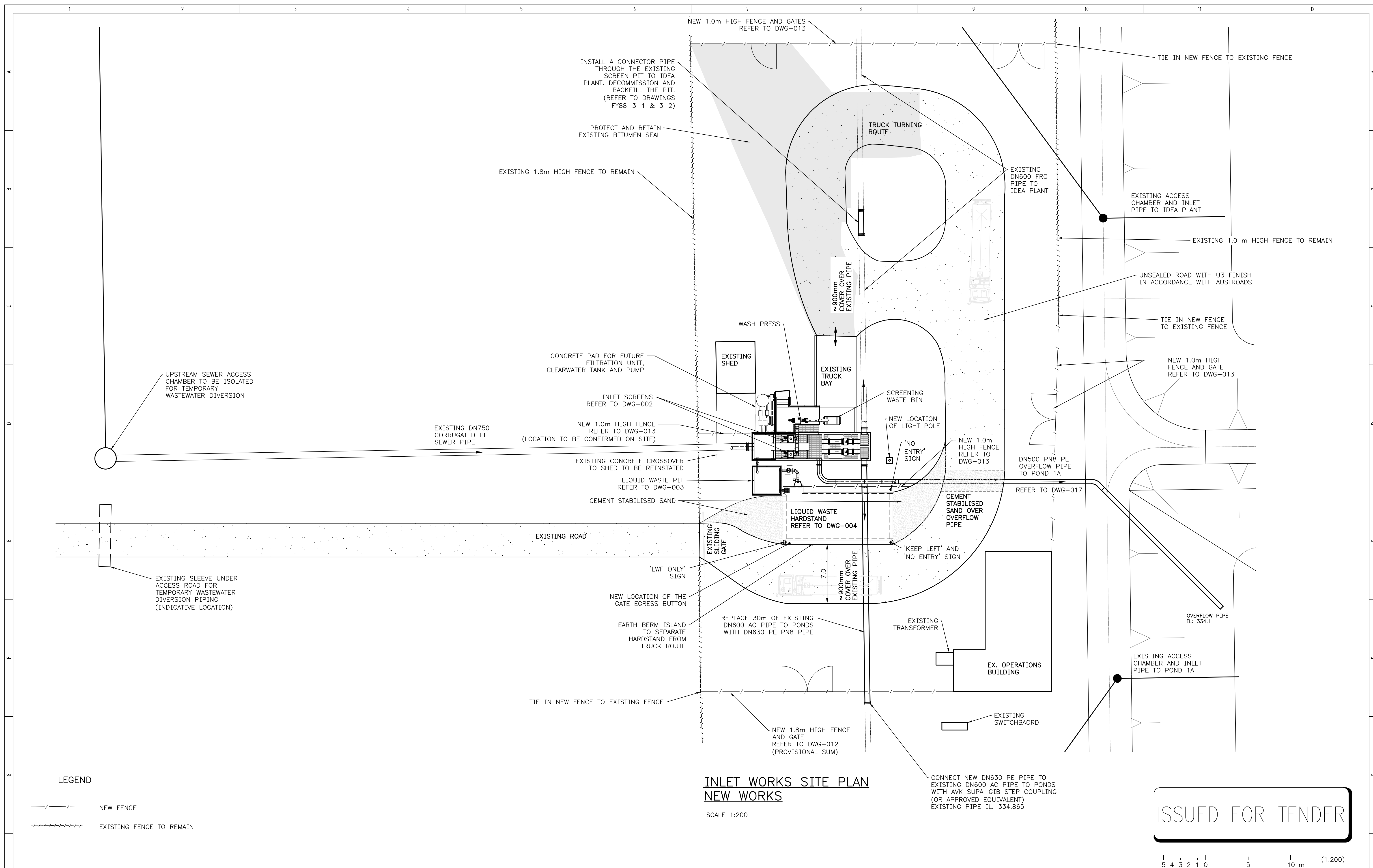
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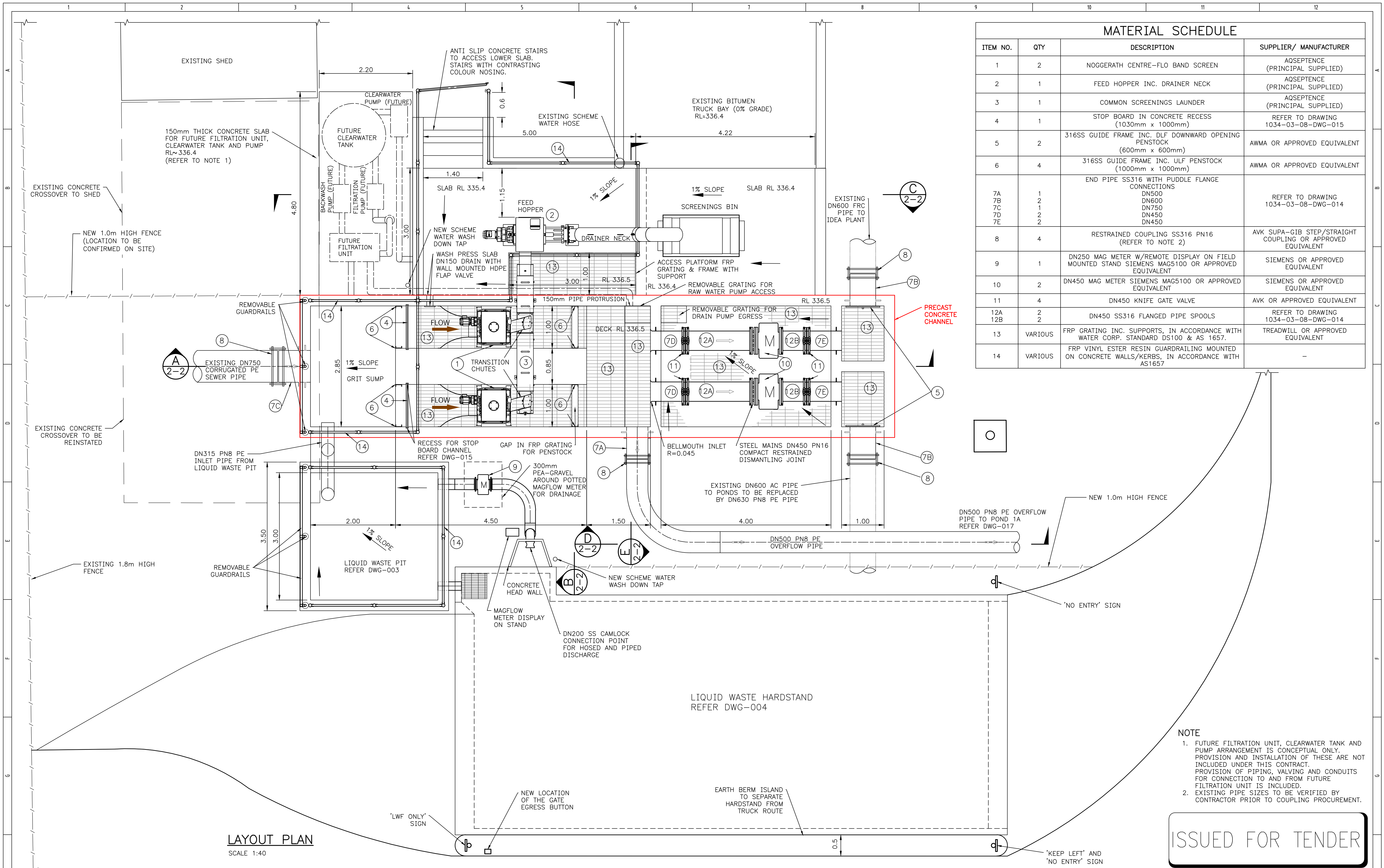





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CHECKED:	MW	DATE:	JAN. 2024
DESIGNED:	BD	DATE:	JAN. 2024
APPROVED:	GD	DATE:	JAN. 2024
CLIENT:	CITY OF KALGOORLIE		

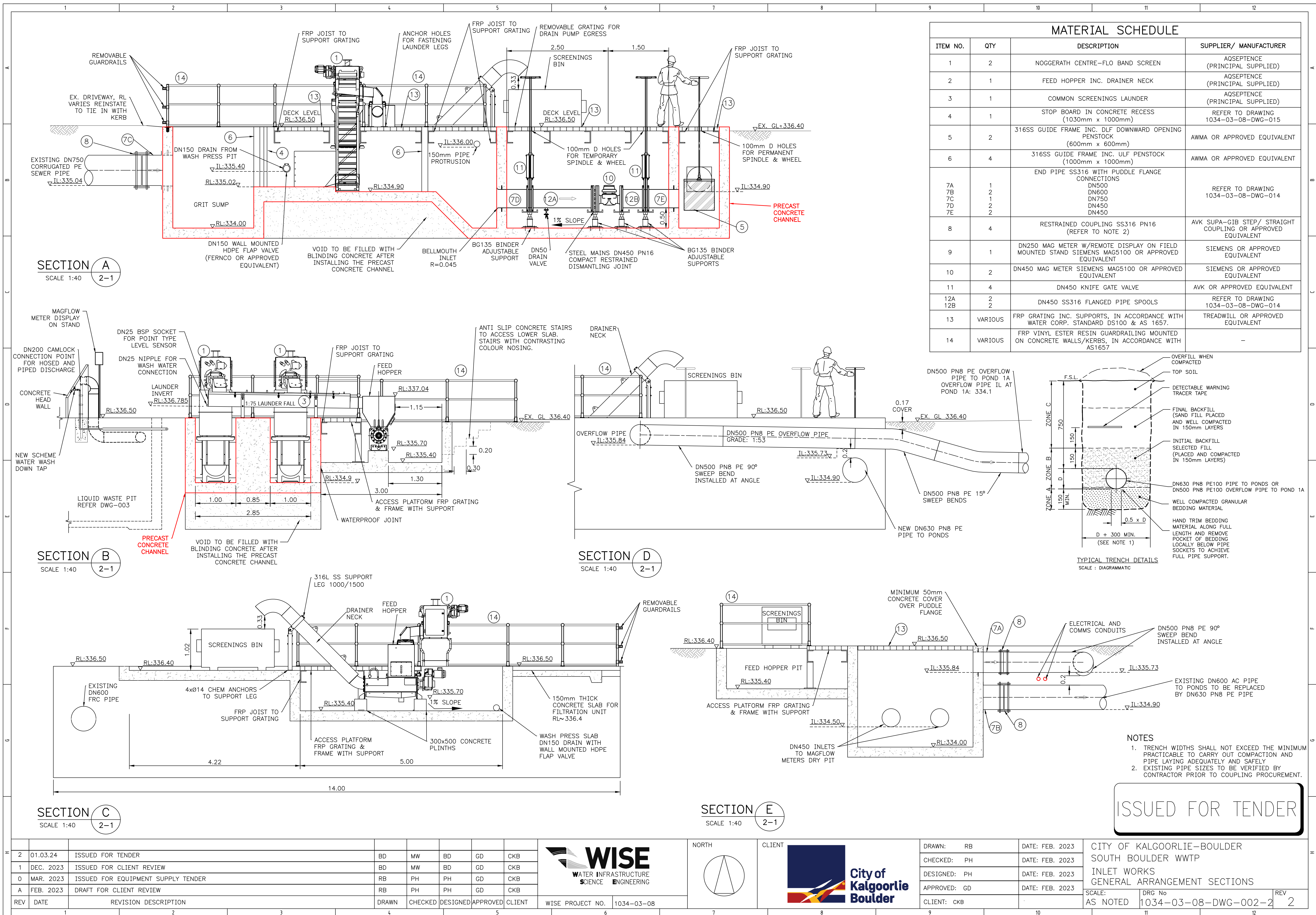
CITY OF KALGOORLIE-Boulder			
South Boulder WWT			
INLET WORKS			
SITE PLAN - AERIAL VIEW			
SCALE:	DRG No	REV	
AS NOTED	1034-03-08-DWG-001-1	0	

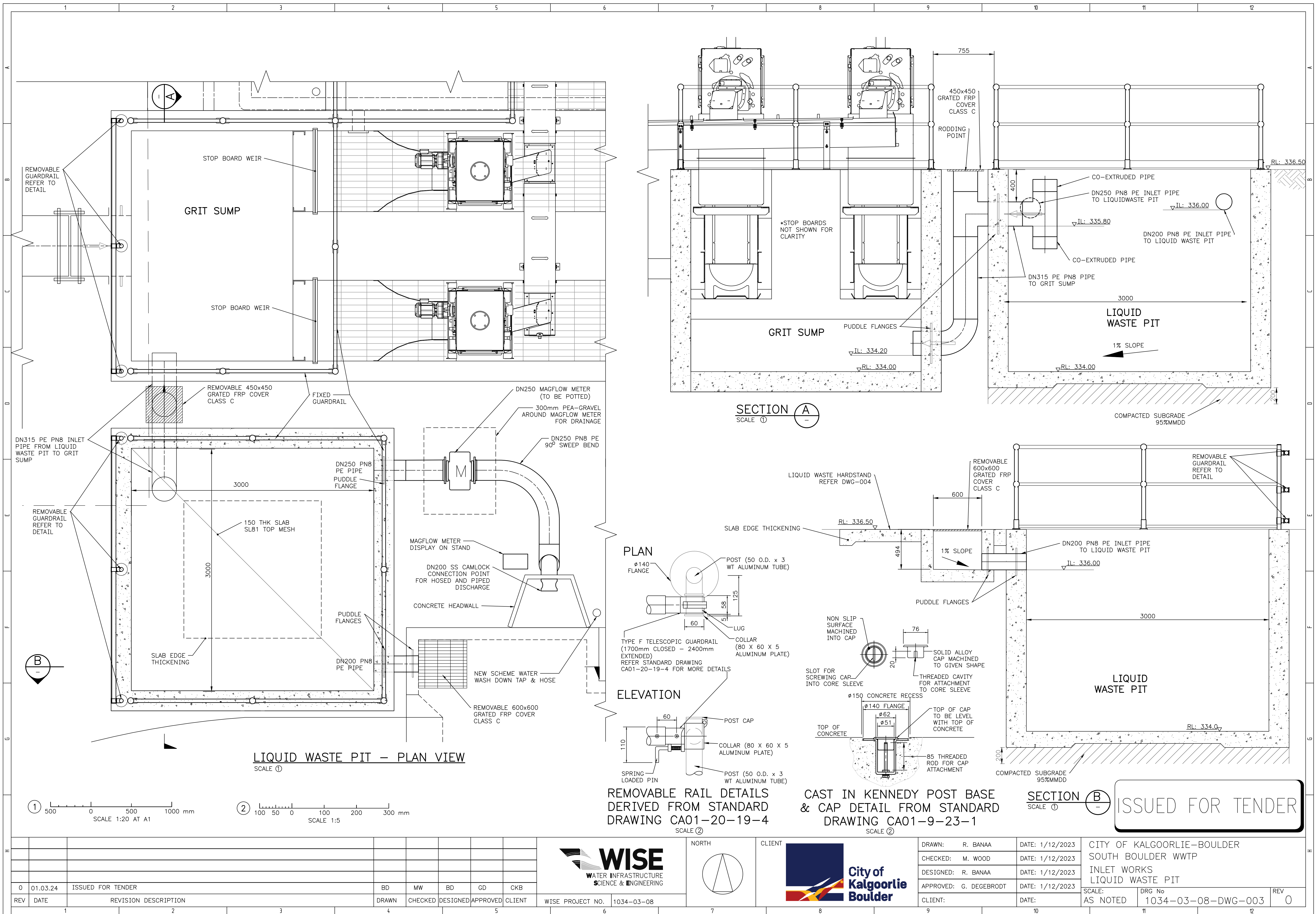
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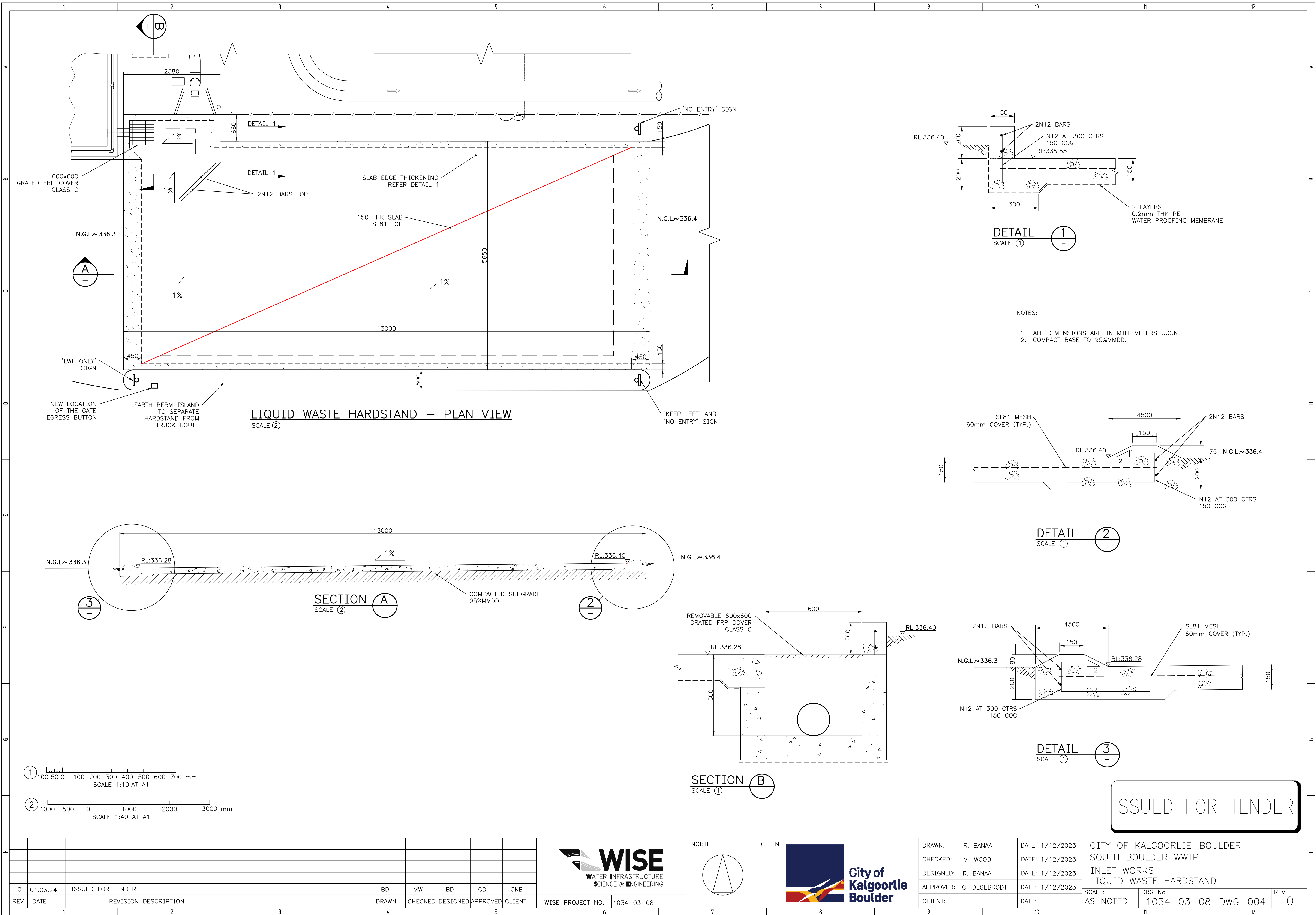
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	0	MAR. 2023	ISSUED FOR EQUIPMENT SUPPLY TENDER		RB	PH	PH	GD	CKB				DESIGNED: PH	DATE: FEB. 2023				
	A	FEB. 2023	DRAFT FOR CLIENT REVIEW		RB	PH	PH	GD	CKB				APPROVED: GD	DATE: FEB. 2023				
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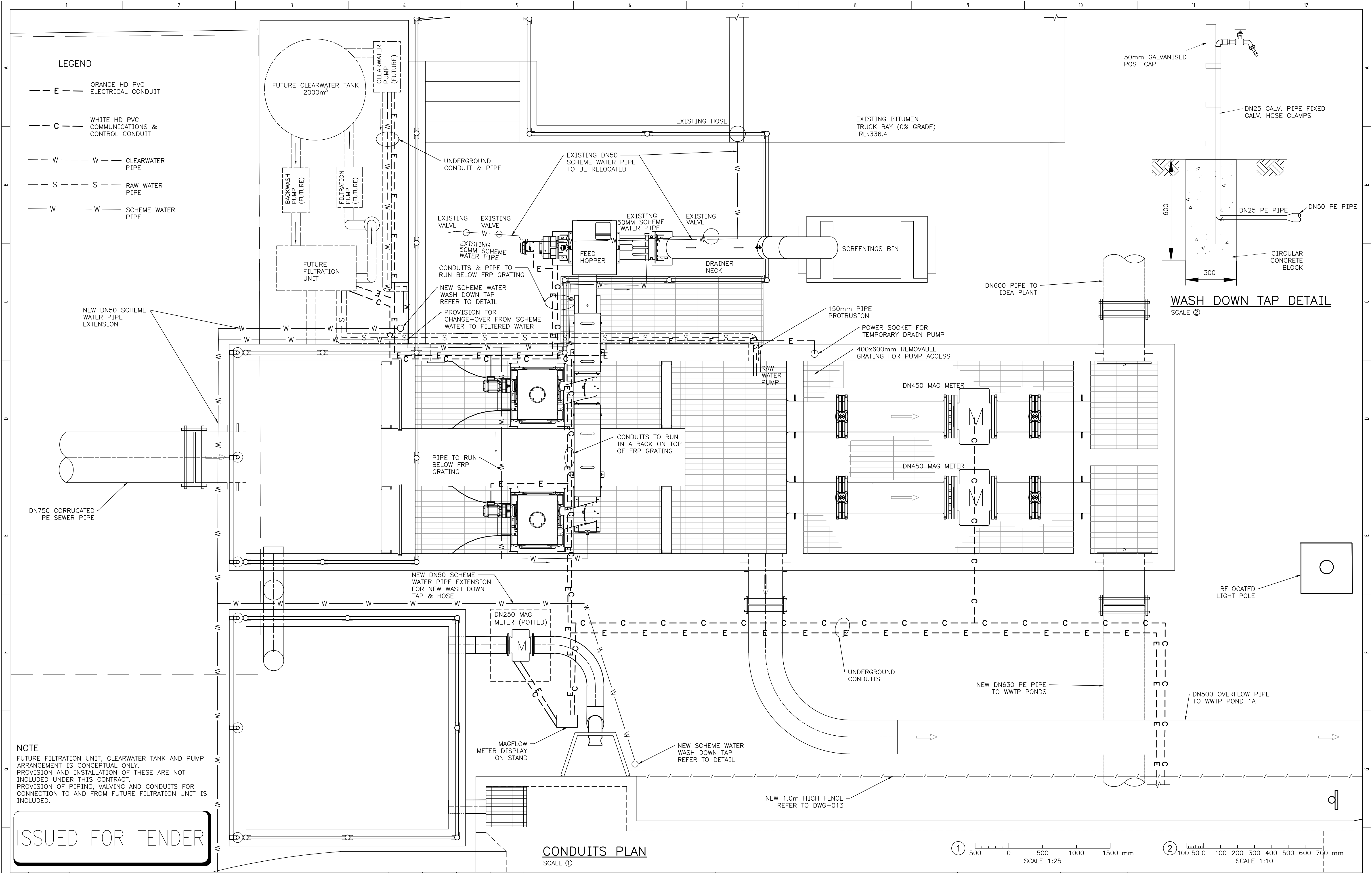






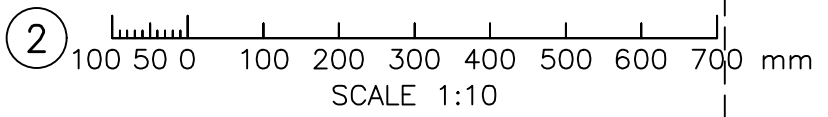
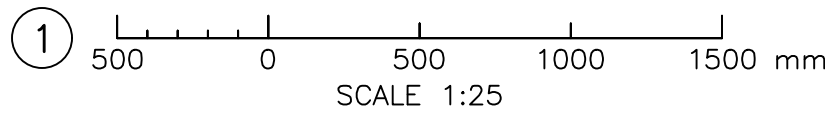
ISSUED FOR TENDER

											DRAWN: R. BANAA		DATE: 1/12/2023		CITY OF KALGOORLIE-Boulder SOUTH BOULDER WWTP INLET WORKS LIQUID WASTE HARDSTAND					
											CHECKED: M. WOOD		DATE: 1/12/2023							
											DESIGNED: R. BANAA		DATE: 1/12/2023							
											APPROVED: G. DEGE BRODT		DATE: 1/12/2023							
							WISE PROJECT NO. 1034-03-08				CLIENT:		DATE:		SCALE: AS NOTED		DRG No 1034-03-08-DWG-004		REV 0	



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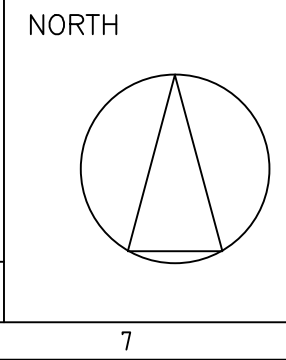
CONDUITS PLAN
SCALE ①



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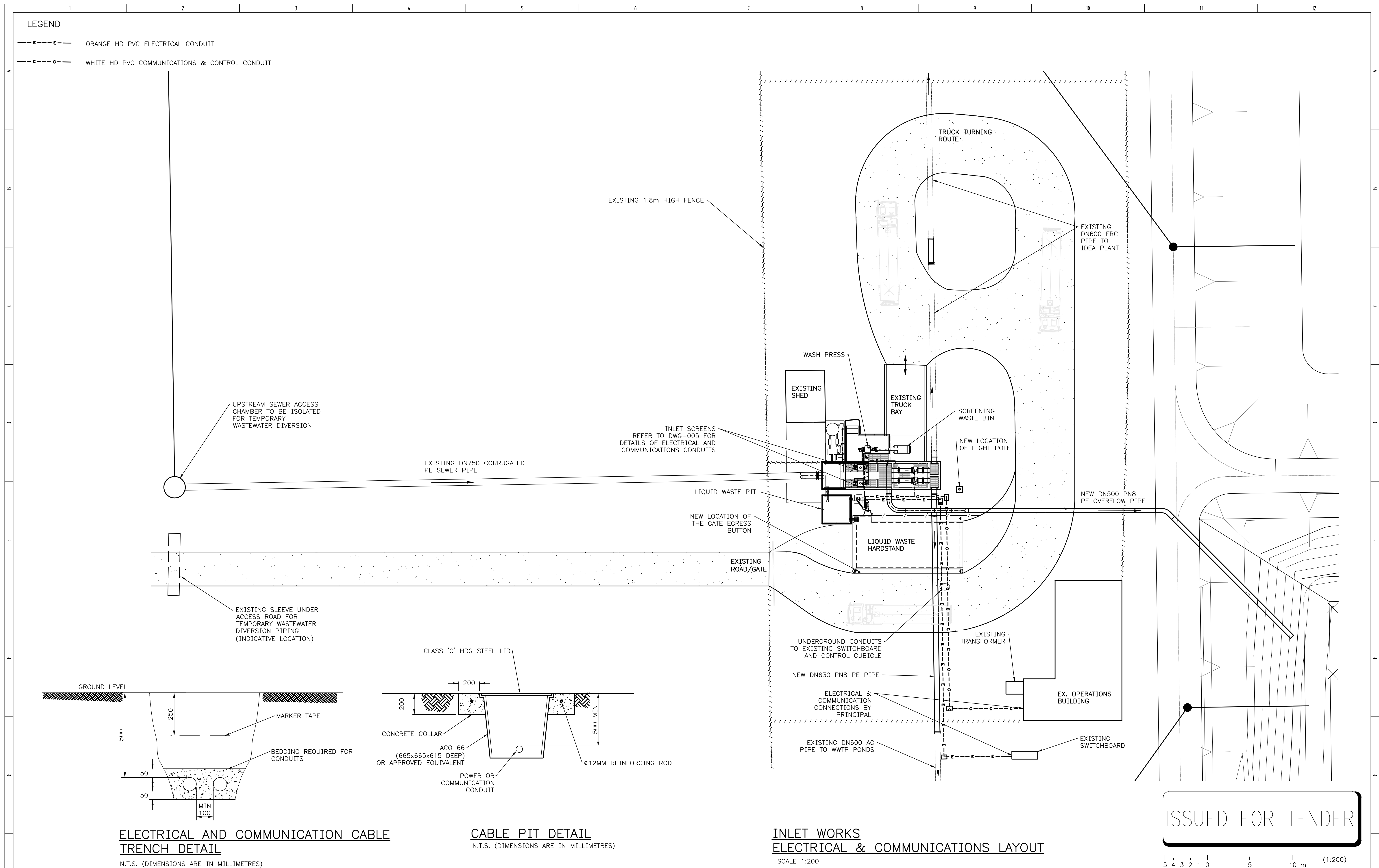
WISE
WATER INFRASTRUCTURE
SCIENCE ENGINEERING

WISE PROJECT NO. 1034-03-08



DRAWN:	BD	DATE:	DEC. 2023
CHECKED:	MW	DATE:	DEC. 2023
DESIGNED:	BD	DATE:	DEC. 2023
APPROVED:	GD	DATE:	DEC. 2023
CLIENT:	CKB		

CITY OF KALGOORLIE-Boulder	
SOUTH BOULDER WWT	
INLET WORKS	
CONDUITS PLAN	
SCALE:	AS NOTED
DRG No	1034-03-08-DWG-005
REV	0

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GENERAL

1. CHECK ALL DIMENSIONS AT SITE.
2. DO NOT SCALE FROM DRAWINGS.
3. ALL LEVELS AND LOCAL DATUM ARE EXPRESSED IN METERS. ALL DIMENSIONS IN MILLIMETERS UNO.
4. READ ALL ENGINEERING DRAWINGS IN CONJUNCTION WITH OTHER CONSULTANT'S DRAWINGS. ANY DISCREPANCIES SHALL BE RESOLVED PRIOR TO COMMENCING CONSTRUCTION.
5. ALL WORKS TO COMPLY WITH THE NATIONAL CONSTRUCTION CODE (NCC) AND THE LATEST AUSTRALIAN STANDARDS AND AMENDMENTS.
6. THE ENGINEER HAS NOT DESIGNED AND IS NOT RESPONSIBLE FOR STRUCTURAL ELEMENTS OTHER THAN THOSE SHOWN ON THE ENGINEERING DRAWINGS.
7. OBTAIN ENGINEERS APPROVAL FOR ALL AMENDMENTS AND SUBSTITUTIONS.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING AND MAINTAINING EXISTING STRUCTURES IN A STABLE CONDITION AND ENSURE NO PART IS OVER STRESSED DURING CONSTRUCTION.
9. ALL DETAILS TO BE CHECKED AND SITE MEASURED, AS PROVIDED, PRIOR TO ORDERING. CHECK ANY DISCREPANCIES WITH THE SUPERINTENDENT'S REPRESENTATIVE.
10. THE CONTRACTOR SHALL ENSURE THAT THE METHODS OF CONSTRUCTION MEET ALL THE REQUIREMENTS OF WORKSAFE. IN PARTICULAR THE USE OF THE FALL ARREST SYSTEMS AND THE USE OF TEMPORARY PROPPING TO SUPPORT STRUCTURAL ELEMENTS DURING CONSTRUCTION.

DESIGN CRITERIA

1. RELEVANT AUSTRALIAN STANDARDS/REFERENCES

a) AS1170.0, AS1170.1, AS1170.2, AS1170.4

-

LOADING CODES

b) AS 1379

-

SPECIFICATION & SUPPLY OF CONCRETE

c) AS 1554 PART 1

-

WELDING

d) AS 1657

-

FIXED PLATFORM,WALKWAY,STAIRWAYS & LADDERS.

e) AS 3600

-

CONCRETE

f) AS 3735

-

CONCRETE STRUCTURES FOR RETAINING LIQUIDS.

g) AS 4100

-

STEEL CODE

h) CONCRETE INSTITUTE OF AUSTRALIA

-

PRECAST CONCRETE HAND BOOK
2. FOUNDATIONS

GEOTECHNICAL REPORT

-

NOT AVAILABLE, TBC
3. GROUNDWATER

-

NOT PRESENT, TBC
4. ALLOWABLE BEARING CAPACITY

a) CHANNEL BASE

-

100 kPa (ASSUMED)
5. DESIGN LIFE

-

50 YEARS
6. EXPOSURE CLASS

a) CHANNEL INSIDE FACES

-

CLASS B2

b) CHANNEL EXTERNAL FACES

-

CLASS B1

FOUNDATIONS

1. REMOVE ALL TOPSOIL, VEGETATION AND DELETERIOUS FILL MATERIAL FROM THE ENTIRE SITE.
2. ALL SOFT SPOTS AT FOUNDATION LEVEL SHALL BE REMOVED DOWN TO LEVEL OF SUITABLE STRENGTH.
3. THE CONTRACTOR SHALL ENGAGE AN EXPERIENCED GEOTECHNICAL ENGINEER TO INSPECT THE SITE AND CONFIRM THAT ALL DELETERIOUS MATERIAL HAS BEEN REMOVED.
4. FOLLOWING REMOVAL OF ABOVE MATERIAL AND DETAIL EXCAVATION FOR FOUNDATIONS, COMPACT SUBGRADE TO ACHIEVE A MINIMUM DENSITY OF 95% MMDD TO A MINIMUM DEPTH OF 0.6m BELOW THE FOUNDATION LEVEL.
5. COMPACTION TESTING SHALL BE UNDERTAKEN BY USING A PERTH SAND PENETROMETER IN ACCORDANCE WITH TEST METHOD AS 1289.6.3.3. THE TARGET BLOW COUNT PER 300mm ROD PENETRATION SHALL BE ESTABLISHED FOR THIS SITE THROUGH CALIBRATION BY A NATA ACCREDITED LABORATORY. THE CALIBRATION RESULTS SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO STARTING EXCAVATION. ALTERNATIVELY NUCLEAR DENSITY GAUGES OR DCP/SPT CAN BE USED FOR TESTING.
6. BACKFILLING AGAINST WALL SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS.

CONCRETE

1. ALL CONCRETE TO COMPLY WITH AS 3600.
2. ALL CONCRETE SHALL BE PRODUCED AND SUPPLIED IN ACCORDANCE WITH AS1379

CONCRETE MIX:

LOCATION	CONCRETE GRADE	COVER TO REINFORCEMENT		MIN. CONTINUOUS CURING PERIOD	TYPE OF CEMENT
		NOMINAL (-5,+10)	MINIMUM		
PRECAST CHANNEL INTERNAL FACE (WALLS/SLAB)	N40/20/80	55	50	7 DAYS	GP
PRECAST CHANNEL EXTERNAL FACE (WALLS/SLAB)	N40/20/80	45	40	7 DAYS	GP
INSITU STRUCTURE INTERNAL FACE (WALLS/SLAB)	N40/20/80	55	50	7 DAYS	GP
INSITU STRUCTURE EXTERNAL FACE (WALLS/SLAB)	N40/20/80	45	40	7 DAYS	GP
BLINDING	N15/20/80	NA	NA	NA	GP

3. ADMIXTURES MAY BE USED IF APPROVED BY THE ENGINEER. NEVER ADD WATER TO CONCRETE ON SITE.

4. COMPACT CONCRETE USING APPROVED IMMERSION TYPE VIBRATORS.
5. ALL CONCRETE SHALL BE CURED BY APPROVED METHODS. CURE CONCRETE BY KEEPING ALL CONCRETE MOIST FOR THE SPECIFIED PERIOD AFTER POURING. ALL SLABS SHALL BE CURED BY PONDING WITH 20mm OF WATER. WALLS AND COLUMNS SHALL BE WET CURED OR IF CURING COMPOUNDS ARE PROPOSED, IT SHALL MEET THE REQUIREMENTS OF AS 3799. HAVE A WATER RETENTION EFFICIENCY INDEX OF NOT LESS THAN 90% AND BE MAINTAINED INTACT FOR THE CURING PERIOD. THE PROPOSED PRODUCT SHALL BE COMPATIBLE WITH THE SPECIFIED SURFACE FINISHES. DETAILS OF CURING COMPOUND SHALL BE SUBMITTED TO THE SUPERINTENDENT'S REPRESENTATIVE FOR APPROVAL.
6. NO HOLES, CHASES OR EMBEDMENT OF PIPES OTHER THAN THOSE SHOWN ON THE CONCRETE DRAWINGS SHALL BE MADE IN CONCRETE MEMBERS WITHOUT PRIOR APPROVAL OF THE SUPERINTENDENT'S REPRESENTATIVE.
7. EXPOSED FORMED CONCRETE SURFACES SHALL HAVE A CLASS 2 FINISH. FORMED CONCRETE SURFACES TO RECEIVE A SURFACE FINISH SHALL HAVE A CLASS 3 FINISH. BURIED CONCRETE SURFACES SHALL HAVE A CLASS 5 FINISH OR BETTER. SURFACE FINISH SHALL BE ASSESSED AFTER CURING PERIOD IN ACCORDANCE WITH AS3610.
8. EXPOSED HORIZONTAL SURFACES SHALL HAVE A STEEL TROWEL FINISH.
9. ALL FORMWORK SHALL BE IN ACCORDANCE WITH AS3610, RIGIDLY CONSTRUCTED OF APPROVED MATERIALS. FORMWORK AND SUPPORTS SHALL BE DESIGNED TO WITHSTAND ALL POSSIBLE LOAD COMBINATIONS DURING CONSTRUCTION.
10. UNLESS OTHERWISE SHOWN, CONSTRUCTION JOINTS IN CONCRETE SHALL ONLY BE MADE WITH THE APPROVAL OF THE SUPERINTENDENT'S REPRESENTATIVE.
11. ALL COMPONENTS CAST INTO CONCRETE TO BE HOT DIP GALVANISED AND PASSIVATED IN A 0.2% SODIUM DICHROMATE SOLUTION OR EQUIVALENT.
12. ALL EXPOSED EDGES OF CONCRETE SHALL HAVE A 20mm x 20mm CHAMFER U.N.O.
13. ALL CONCRETE SHALL BE TESTED IN ACCORDANCE WITH AS1379 SECTION 5.
14. CONCRETE SHALL BE POURED USING CONCRETE PUMPS OR CHUTES.TO AVOID SEGREGATION, THE MAXIMUM FREE FALL OF CONCRETE DURING PLACING SHALL NOT EXCEED 2.0 METRES. BEYOND THIS, SUITABLE CHUTES OR TREMIES SHALL BE USED.
15. ALL CONSTRUCTION TOLERANCES SHALL BE IN ACCORDANCE WITH AS3600.
16. 100mm THICK CONCRETE BLINDING SHALL BE USED UNDER THE PRECAST CHANNEL SLAB AND 50mm THICK CONCRETE BLINDING UNDER INSITU CHANNEL SLAB
17. A WATERPROOF MEMBRANE (0.2 mm THICK FORTECON OR SIMILAR APPROVED) SHALL BE PLACED UNDER ALL INSITU SLABS POURED ON GROUND. ALL JOINTS TO BE TAPED.
18. PROVIDE SIKASWELL/PARCHEM HYDROTITE HYDROPHILIC WATERSTOP PLACED CENTRALLY FOR ALL EXTERNAL WALL CONSTRUCTION JOINTS WITH THE BASE SLAB.

REINFORCING

1. ALL REINFORCING SHALL BE NEW AND FABRICATED AND SUPPLIED BY AN ACRS ACCREDITED SUPPLIER.
2. REINFORCEMENT SHALL BE IN ACCORDANCE WITH THE FOLLOWING STANDARDS:

R

-

INDICATES PLAIN REINFORCEMENT BAR R250N TO AS/NZS 4671.

L

-

PLAIN OR DEFORMED WIRE R500L OR D500L TO AS/NZS 4671.

RL

-

DEFORMED RECTANGULAR MESH D500RL TO AS/NZS 4671.

SL

-

DEFORMED SQUARE MESH D500L TO AS/NZS 4671.

N

-

DEFORMED BARS D500N TO AS/NZS 4671.

S

-

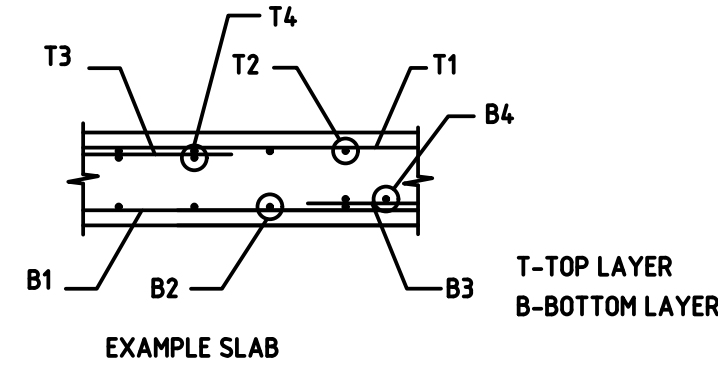
DEFORMED BARS D250N TO AS/NZS 4671.

TM

-

TRENCH MESH D500L TO AS/NZS 4671.
3. REINFORCEMENT SHALL BE PLACED WITH ACCURATE COVER AS SPECIFIED. ALL REINFORCEMENT SHOULD BE INSPECTED AND APPROVED BY THE SUPERINTENDENT BEFORE COMMENCEMENT OF THE POUR.
4. SPLICES IN REINFORCEMENT SHALL BE PROVIDED IN THOSE POSITIONS SHOWN ON THE DRAWINGS. MINIMUM LAP LENGTHS SHALL BE EQUAL TO 40x THE DIAMETER OF THE SMALLER BAR BEING LAPPED UNO ON THE DRAWINGS. LAPS IN WELDED MESH PANELS SHALL BE 1.5 x THE SPACING OF THE BARS RUNNING PARALLEL TO THE LAP.
5. REINFORCEMENT REFERENCE CODE AS FOLLOWS

EXPLANATION OF NOTATION FOR REINFORCEMENT:



6. OTHER REINFORCING ABBREVIATIONS

- EW

-

EACH WAY
- EF

-

EACH FACE
- 'U'

-

U-SHAPED BAR
- 'L'

-

L-SHAPED BAR
- 'Z'

-

Z-SHAPED BAR
- LIG

-

SHEAR LIGATURE
- RE

-

RE-ENTRANT BAR - 1N16-1200 LONG DIAGONAL ACROSS CORNER
- COG

-

STANDARD 90° BEND UNLESS LENGTH GIVEN
- HOO

-

STANDARD 180° HOOK

7. THE CONTRACTOR TO ENSURE THAT THE PEAK TEMPERATURE OF CONCRETE SHALL NOT EXCEED 70°C AT ANY POINT DURING CONSTRUCTION.

CIVIL WORKS

1. THE CONTRACTOR SHALL SET OUT THE WORKS FROM THE NOMINATED DESIGN LINES, SURVEY BENCHMARKS AND CONTROL POINTS SHOWN ON THE PLANS AND TO THE SPECIFIED DETAILS.
2. GEOTECHNICAL REPORT

THE EXISTING SITE SOIL CONDITIONS AND RECOMMENDATION FOR THE DESIGN SITE PREPARATION AND CONSTRUCTION OF THE NEW WORK TO BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER.
3. REINSTATEMENT

a) POST CONSTRUCTION REINSTATEMENT SHALL BE IN ACCORDANCE WITH THE CLIENT'S SPECIFICATIONS.

FRP WORKS

1. PLATFORMS, HANDRAILS AND KICKPLATES ARE TO COMPLY WITH AS 1657.
2. THE NOMINATED FRP GRATING AND SECTIONS ARE BASED ON TREADWELL OR SIMILAR APPROVED. CONTRACTOR TO VERIFY THE FRP MEMBER DESIGN AND DETAIL WITH THE MANUFACTURER.
3. PLATFORM GRATING TO BE TREADWELL GRATEX SQUARE MESH FRP GRATING REF GTX-383838SS WITH ANTI-SLIP FINISH OR APPROVED EQUIVALENT.
4. THE ACCESS PLATFORM STRUCTURE SHALL BE CONSTRUCTED FROM VINYL ESTER RESIN FRP SECTIONS TO THE MANUFACTURER'S SPECIFICATIONS. ALL FIXINGS ARE TO BE 316 STAINLESS STEEL (GRADE 316).
5. GUARDRAILS AND KICKPLATES ARE TO BE FRP VINYL ESTER RESIN TYPE AS PER MANUFACTURER'S SPECIFICATION AND TO BE COLOURED YELLOW (TBC).
6. ANY DISSIMILAR METALS ARE TO BE PROTECTED AGAINST CORROSION AND AND APPROVED BY THE ENGINEER.
7. THE TOP OF GRATING AND TOP OF WALL TO BE THE SAME.
8. FRP GRATING FIXINGS SHALL BE CONFIGURED SO AS TO PROVIDE AT LEAST:

a) ONE FIXING AT EACH CORNER NO FARTHER THAN 200mm FROM THE CORNER.

b) FOUR FIXINGS PER SQUARE METRE OF PANEL FOR PANEL SPANS EQUAL TO OR GREATER THAN ONE METRE.

c) SIX FIXINGS PER SQUARE METRE FOR PANEL LESS THAN ONE METRE

d) FIXINGS SPACED NO FARTHER APART THAN 600 mm.

ANCHORS

1. MECHANICAL ANCHORS TO BE HILTI HSL-G-R (STAINLESS STEEL) U.N.O. COMPLY WITH THE FOLLOWING:

SIZE (mm)	MIN. EMBEDMENT (mm)	MIN. SPACING (mm)	MIN. EDGE DISTANCE (mm)
M16	125	300	150
M20	155	375	180

2. CHEMICAL ANCHORS TO BE HILTI HIT-HY200-R WITH GR 8.8 THREADED ROD (HDG) U.N.O. COMPLY WITH THE FOLLOWING OR EQUAL APPROVED.

SIZE (mm)	MIN. EMBEDMENT (mm)	MIN. SPACING (mm)	MIN. EDGE DISTANCE (mm)	MIN. BASE MATERIAL THICKNESS (mm)
M12	110	210	100	140
M16	125	240	125	160
M20	170	270	150	250

ABBREVIATIONS

- CJ

-

CONSTRUCTION JOINT
- DCJ

-

DOWELLED CONTRACTION JOINT
- DEJ

-

DOWELLED EXPANSION JOINT
- DIWN

-

DIMENSION
- DPM

-

DAMP PROOF MEMBRANE
- DRG

-

DRAWING
- EOT

-

END OF TRIP
- GL

-

GROUND LEVEL
- FFL

-

FINISHED FLOOR LEVEL
- FGL

-

FINISHED GROUND LEVEL
- FSL

-

FINISHED SURFACE LEVEL
- HD

-

HOLDING DOWN
- HDG

-

HOT DIP GALVANISED
- ID

-

INSIDE DIAMETER
- IJ

-

ISOLATION JOINT
- IL

-

INVERT LEVEL
- MS

-

MILD STEEL
- OD

-

OUTSIDE DIAMETER
- RL

-

REDUCED LEVEL
- SSL

-

STRUCTURAL SLAB LEVEL
- TOC

-

TOP OF CONCRETE
- TOS

-

TOP OF STEEL
- TWL

-

TOP OF WATER LEVEL
- TYP

-

TYPICAL
- UNO

-

UNLESS NOTED OTHERWISE
- U/S

-

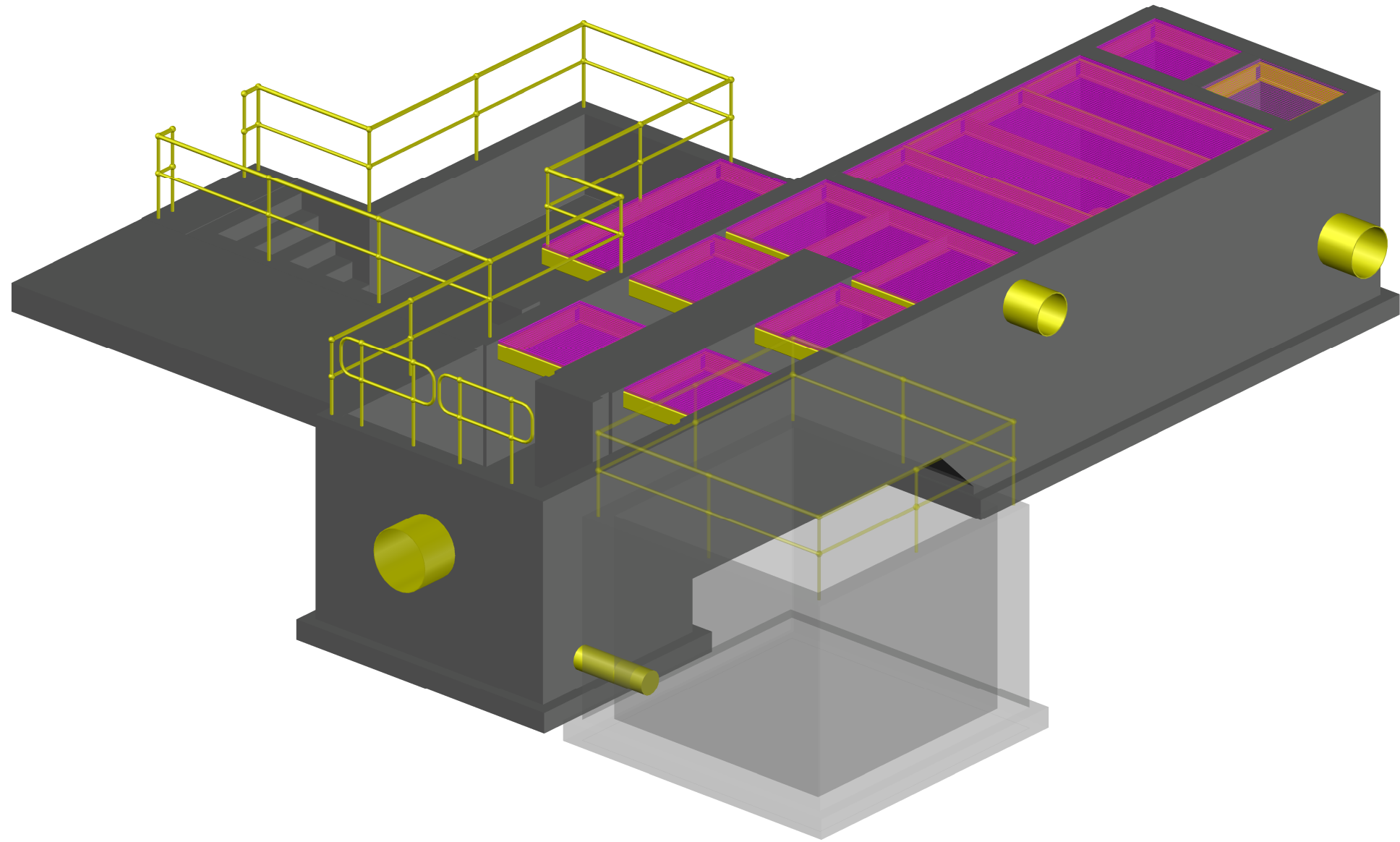
UNDERSIDE
- WP

-



WORK POINT
- WPM

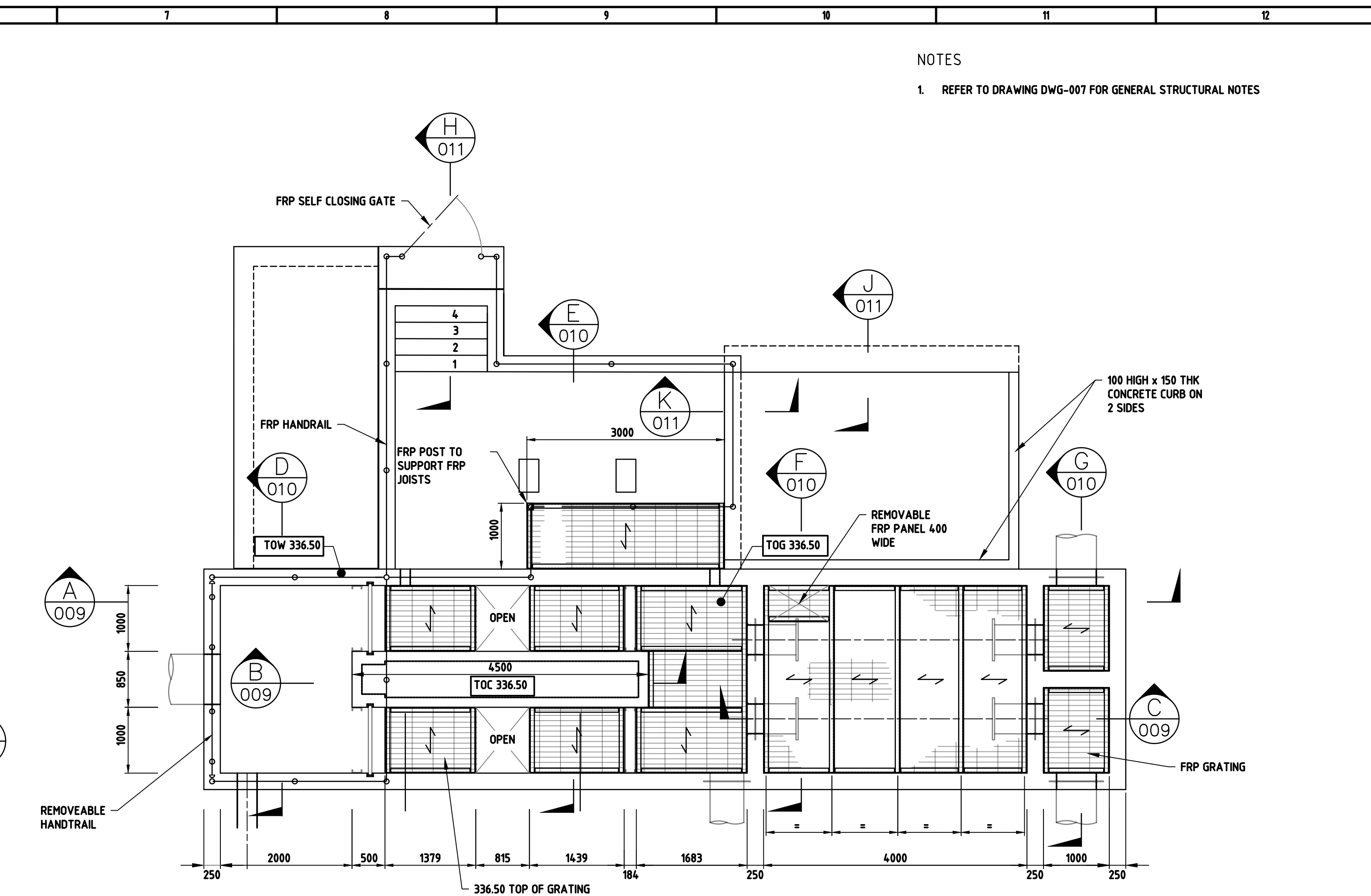
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WATERPROOF MEMBRANE



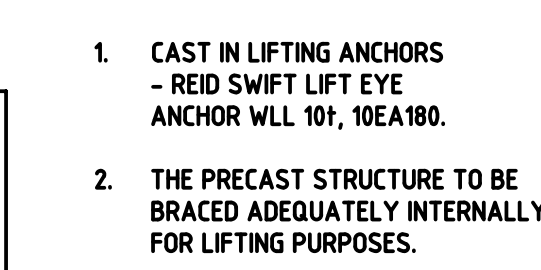
ISOMETRIC VIEW
NTS

D		05/03/24	ISSUED FOR TENDER	JJR	BT	NM			 <div>WISE INFRASTRUCTURE ENGINEERING</div>	NORTH	CLIENT	 <div>City of Kalgoorlie Boulder</div>	DRAWN: JJR	DATE: JAN 2024	CITY OF KALGOORLIE–BOULDER SOUTH BOULDER WWTP INLET WORKS– GENERAL NOTES			
C		20/02/24	ISSUED FOR 100% REVIEW	JJR	BT	NM							CHECKED: BT	DATE: JAN 2024				
B		11/01/2024	ISSUED FOR TENDER REVIEW	JJR	BT	NM							DESIGNED: NM	DATE: JAN 2024				
A		16/06/2023	ISSUED FOR CLIENT REVIEW – 70%	MJ	BT	NM							APPROVED:	DATE:	SCALE:	DRG No 1034–03–08–DWG–007	REV D	
REV	DATE	REVISION DESCRIPTION			DRAWN	CHECKED	DESIGNED	APPROVED	CLIENT	WISE PROJECT NO.	1034–03–08							
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SCALE ①

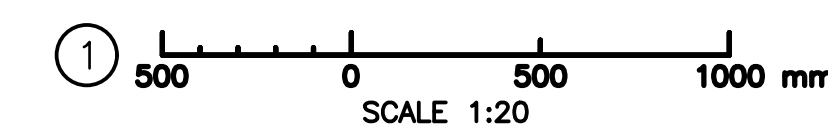
NOTES:  FRP GRATING SPAN DIRECTION



SCALE ①

TOTAL WEIGHT 99 Tonne

TOTAL WEIGHT 99 Tonne





FOR 100% REVIEW

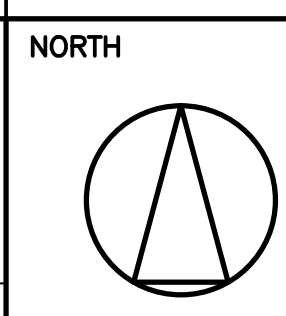
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**NOTE: REINFORCEMENT DETAILS NOT SHOWN FOR CLARITY
REFER SECTIONS FOR REINFORCEMENT DETAILS**

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C	20/02/24	RE-ISSUED FOR 100% REVIEW	JJR	BT	NM		
B	11/01/24	ISSUED FOR 100% REVIEW	JJR	BT	NM		
A	16/06/23	ISSUED FOR CLIENT REVIEW – 70%	MJ	BT	NM		
REV	DATE	REVISION DESCRIPTION	DRAWN	CHECKED	DESIGNED	APPROVED	CLIENT
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 <p>Plexus Consulting</p>		
		
WISE PROJECT NO.		1034-03-08
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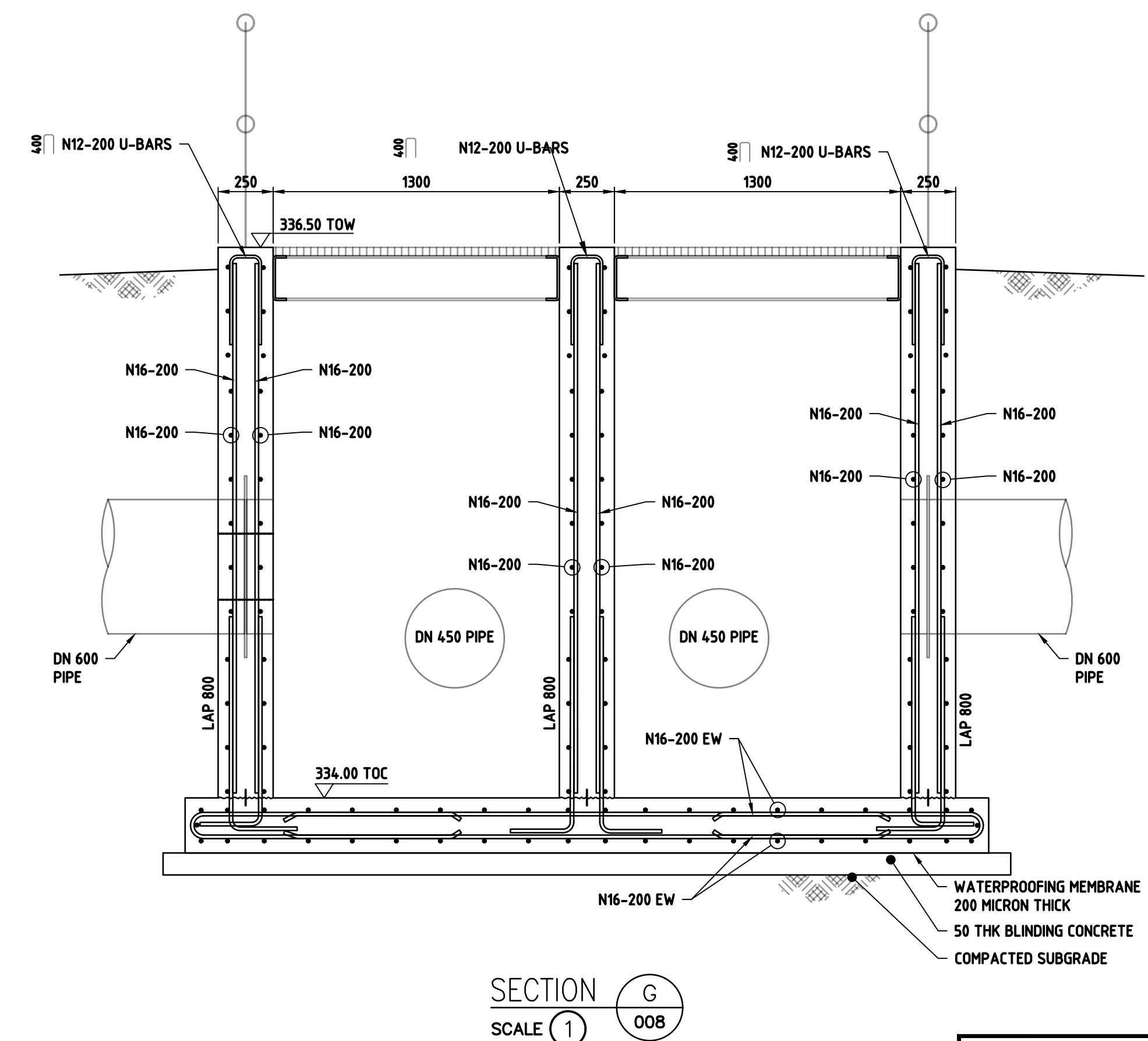
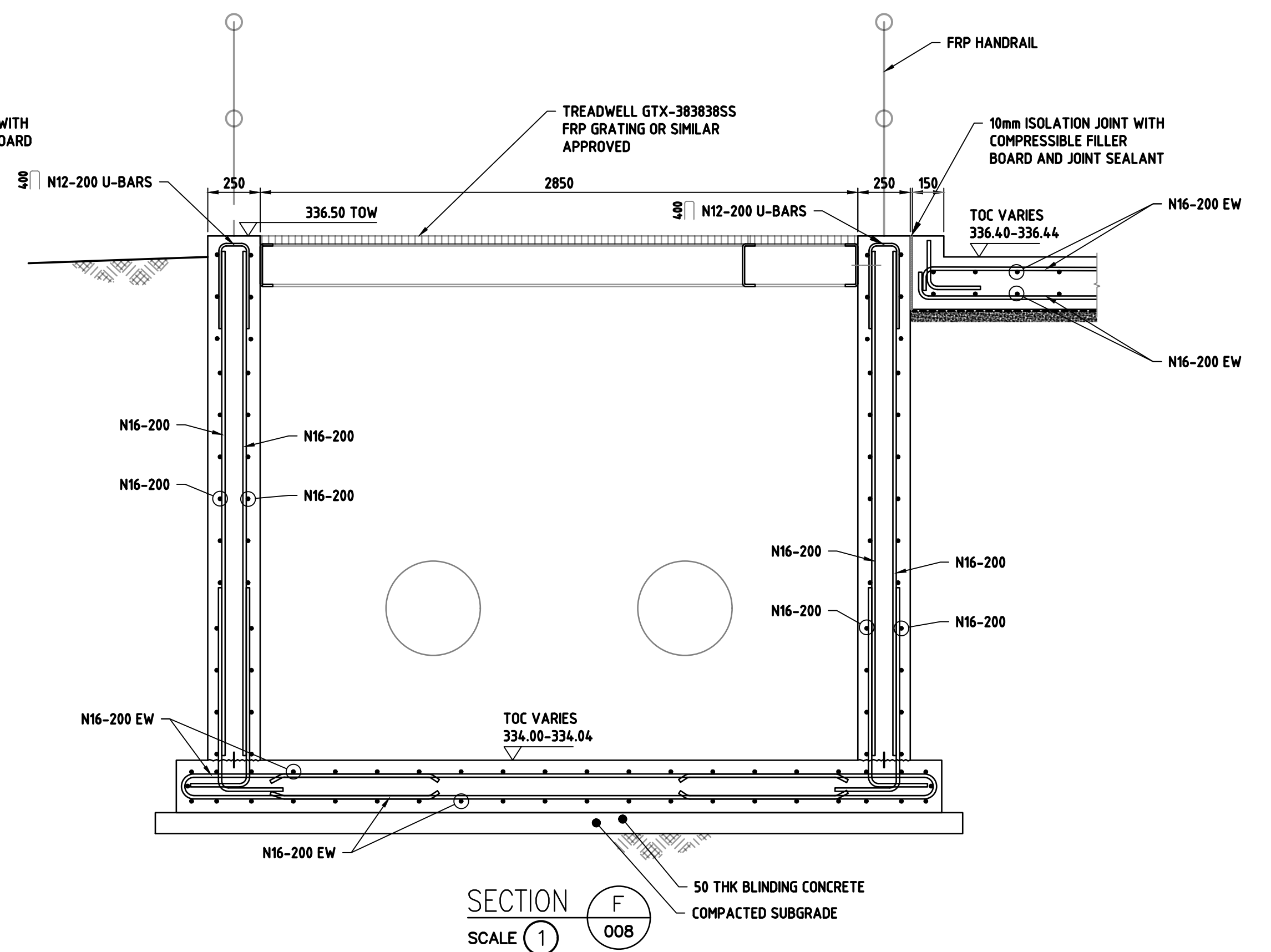


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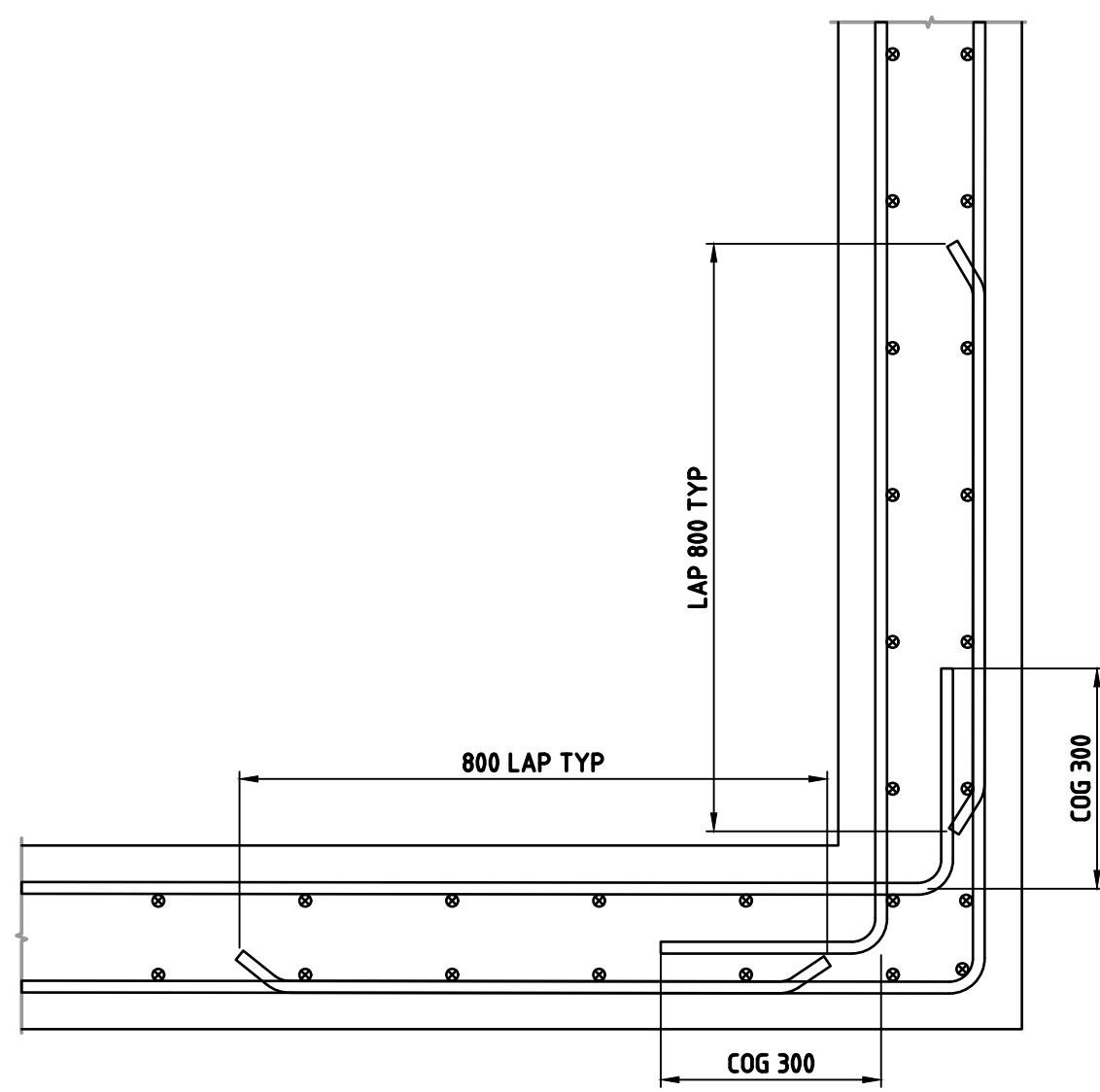
City of
**Kalgoorlie
Boulder**

DRAWN: JJR	DATE: JAN. 2024	CITY OF KALGOORLIE-Boulder SOUTH BOULDER WWTP INLET WORKS GA PLAN - BASE SLAB & GROUND LEVEL		
CHECKED: BT	DATE: JAN. 2024			
DESIGNED: NM	DATE: JAN. 2024			
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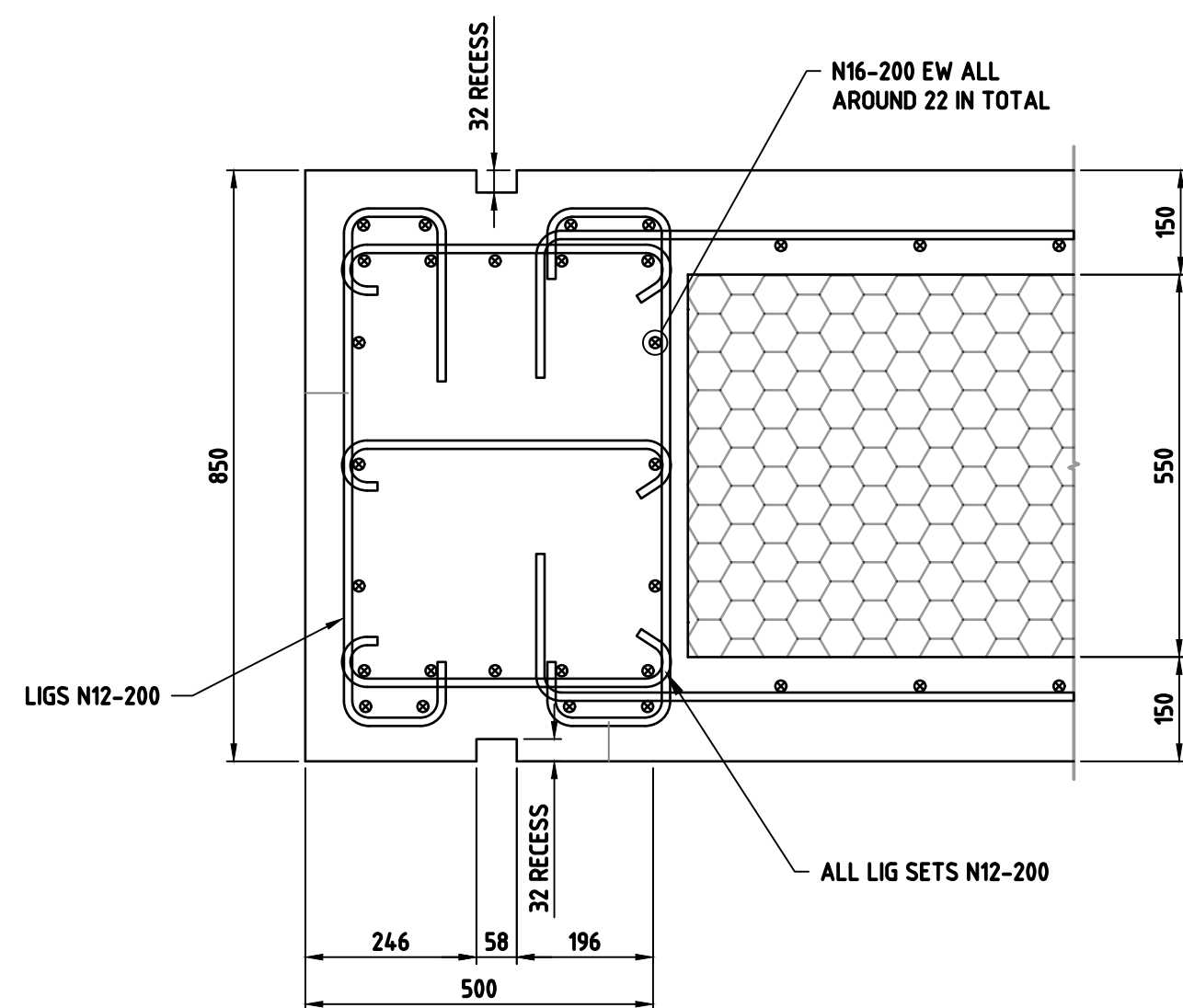


NOT FOR CONSTRUCTION

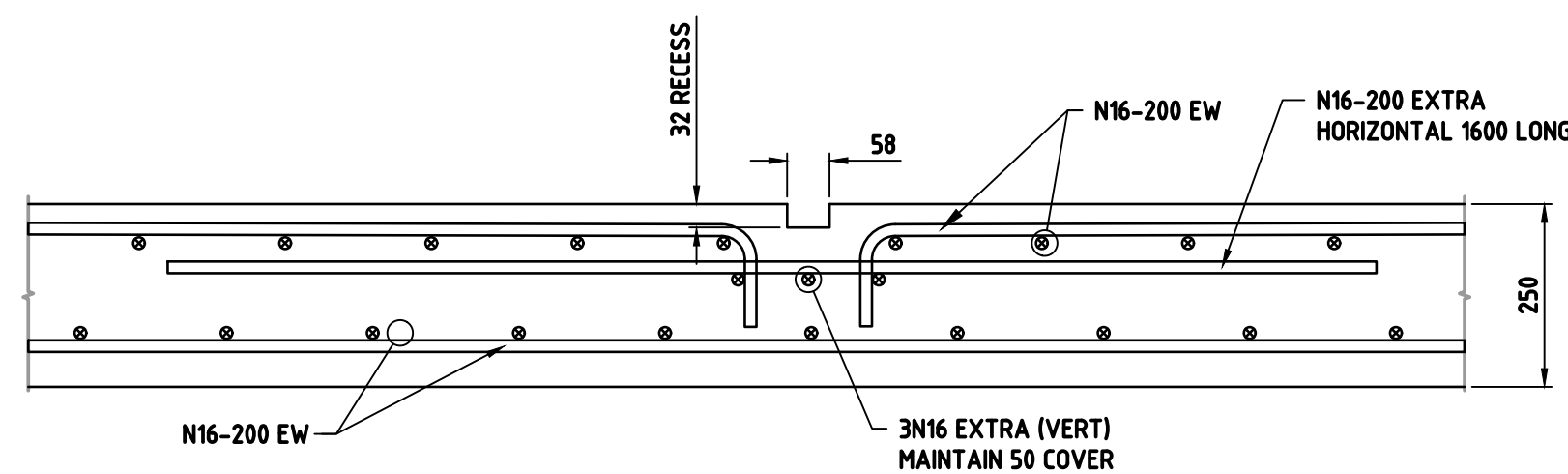
CITY OF KALGOORLIE-BOULDER		
SOUTH BOULDER WWTP		
INLET WORKS		
REINF AND ELEVATION PLAN		
SCALE:	DRG No	REV
AS NOTED	1034-03-08-DWG-010	D



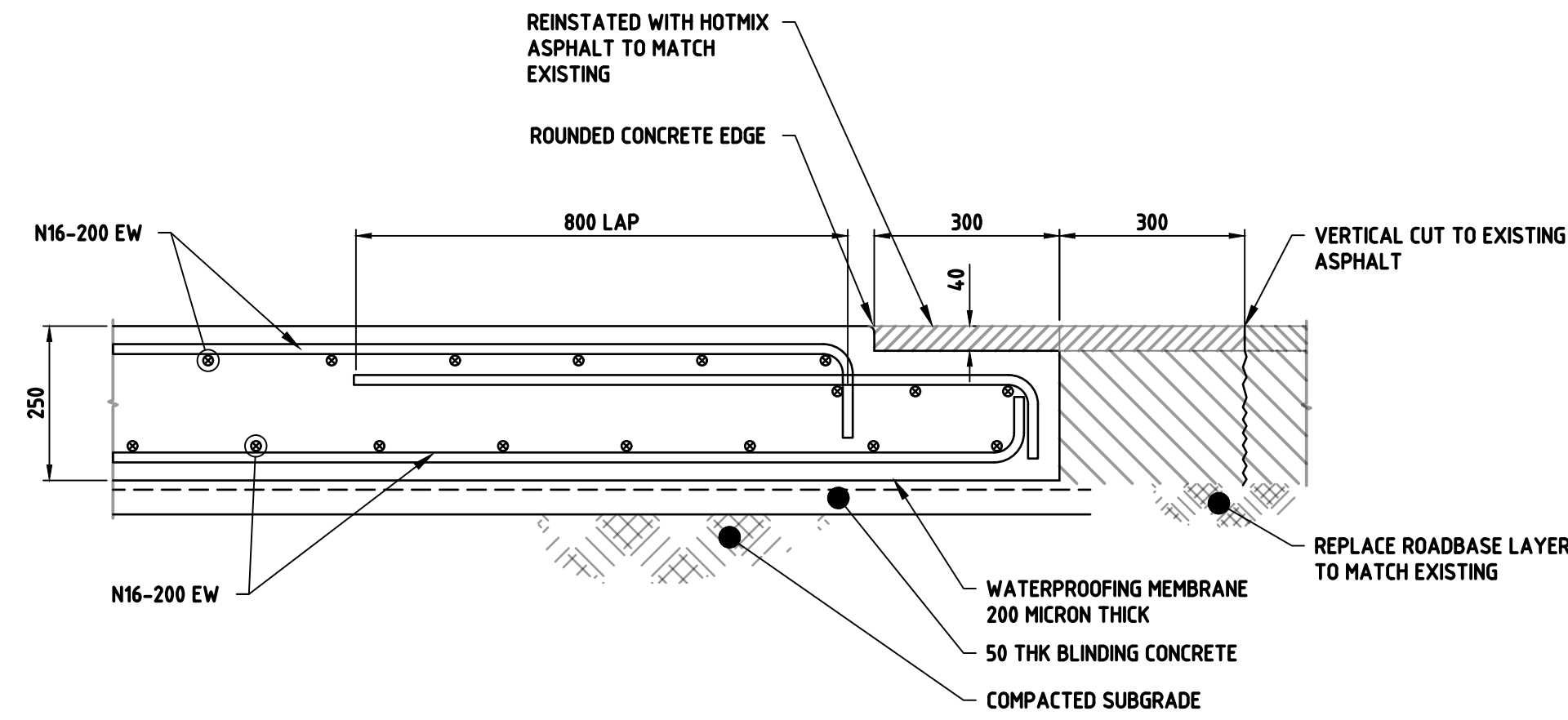
TYPICAL CORNER HORIZONTAL LAP DETAIL
SCALE 1



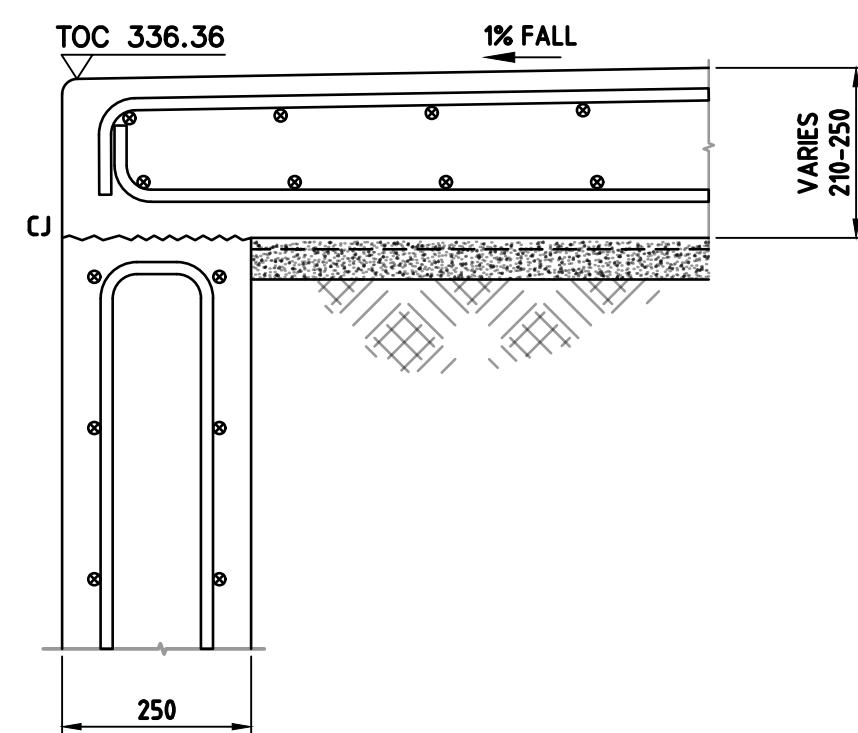
SECTION X
SCALE 1



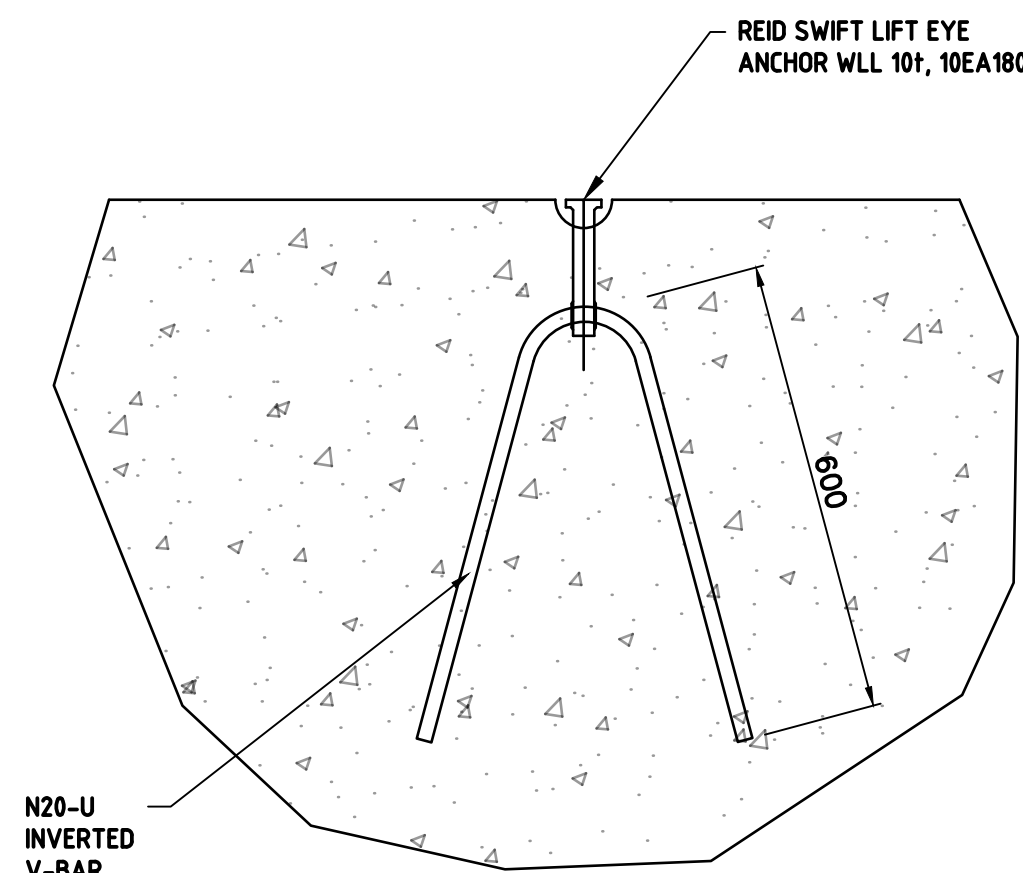
WALL RECESS TYPICAL DETAIL - PLAN
SCALE 1



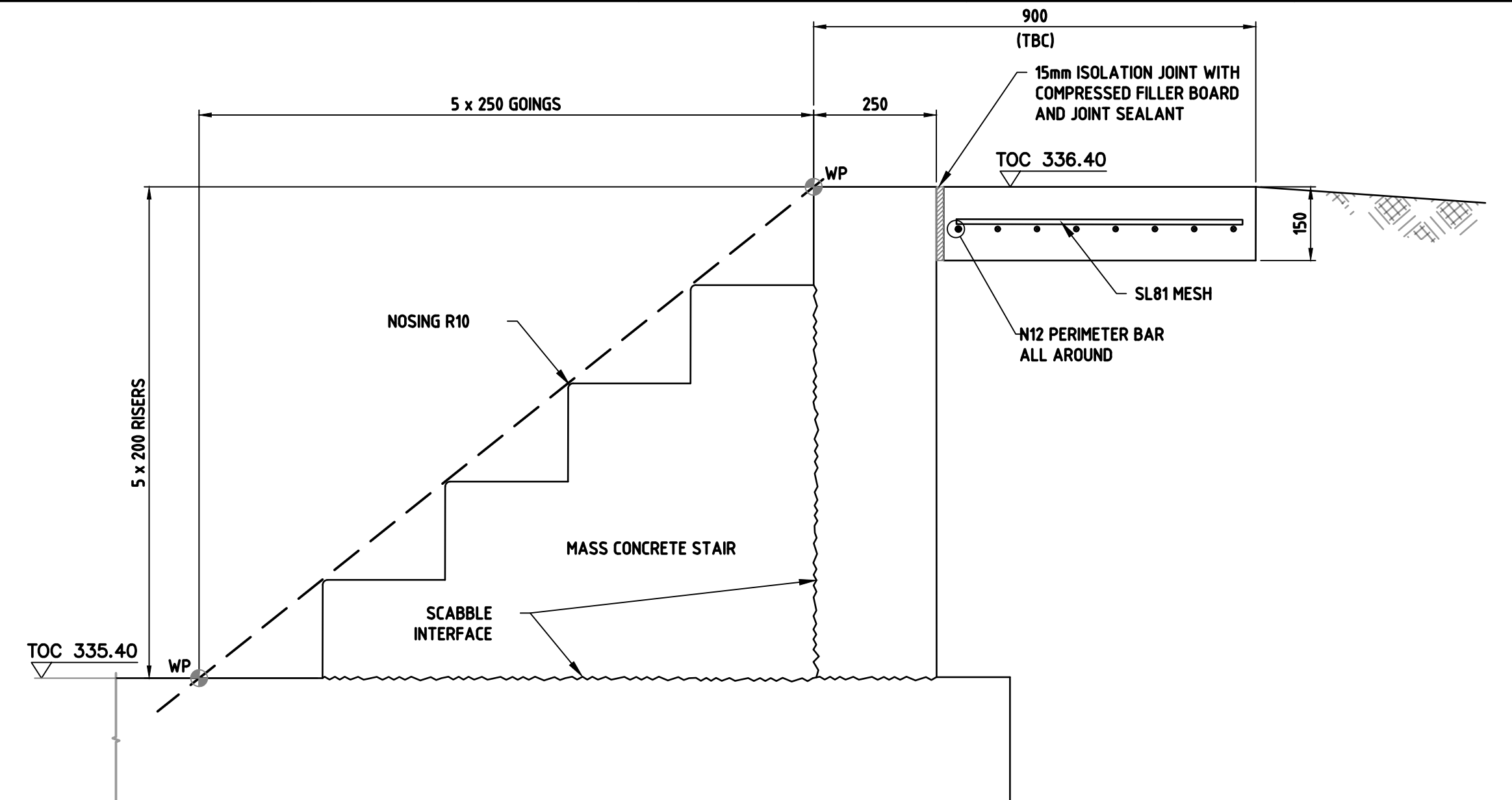
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SCALE 1



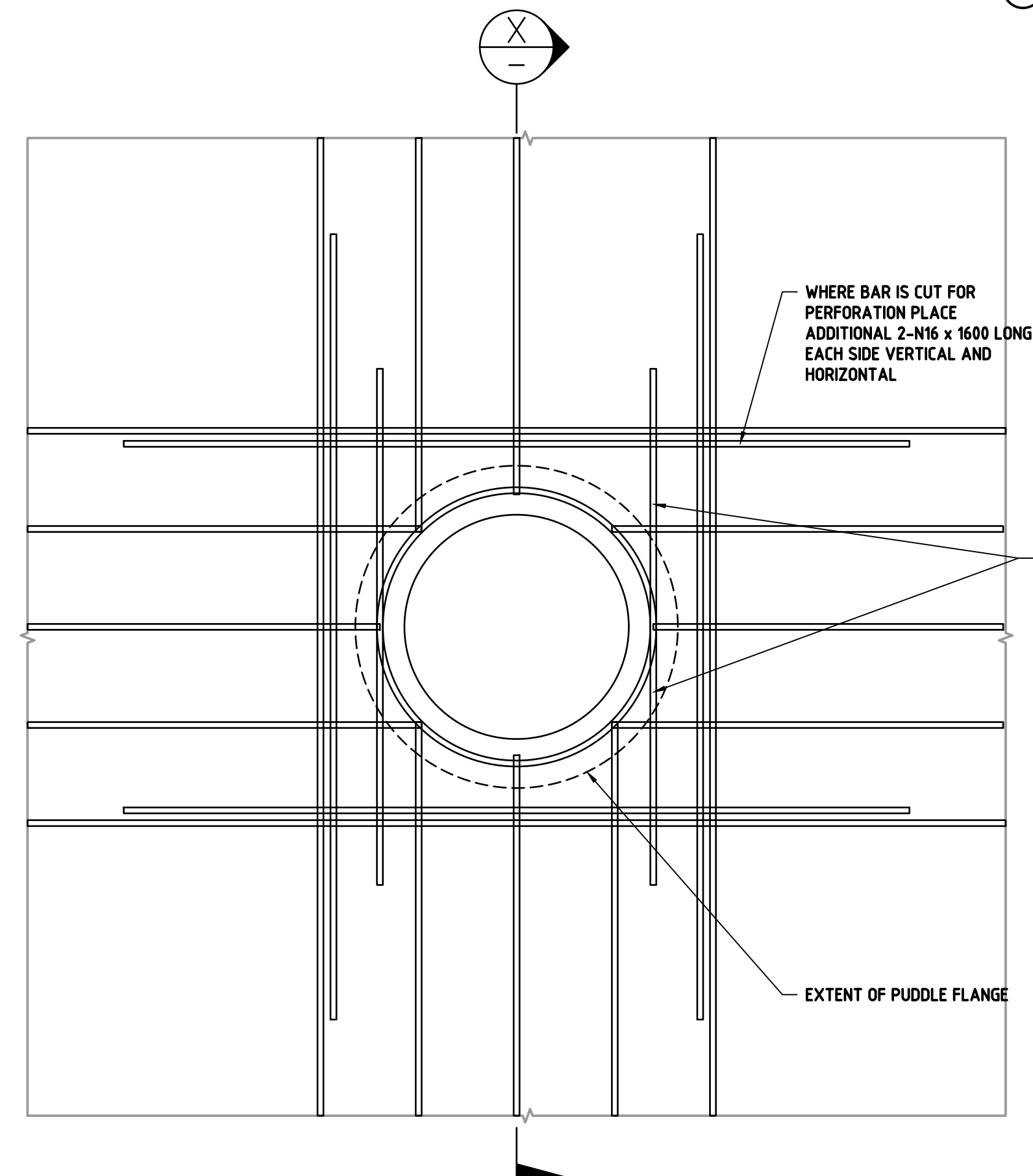
SECTION K
SCALE 1



LIFTING LUG
SCALE 1



SECTION H
SCALE 1

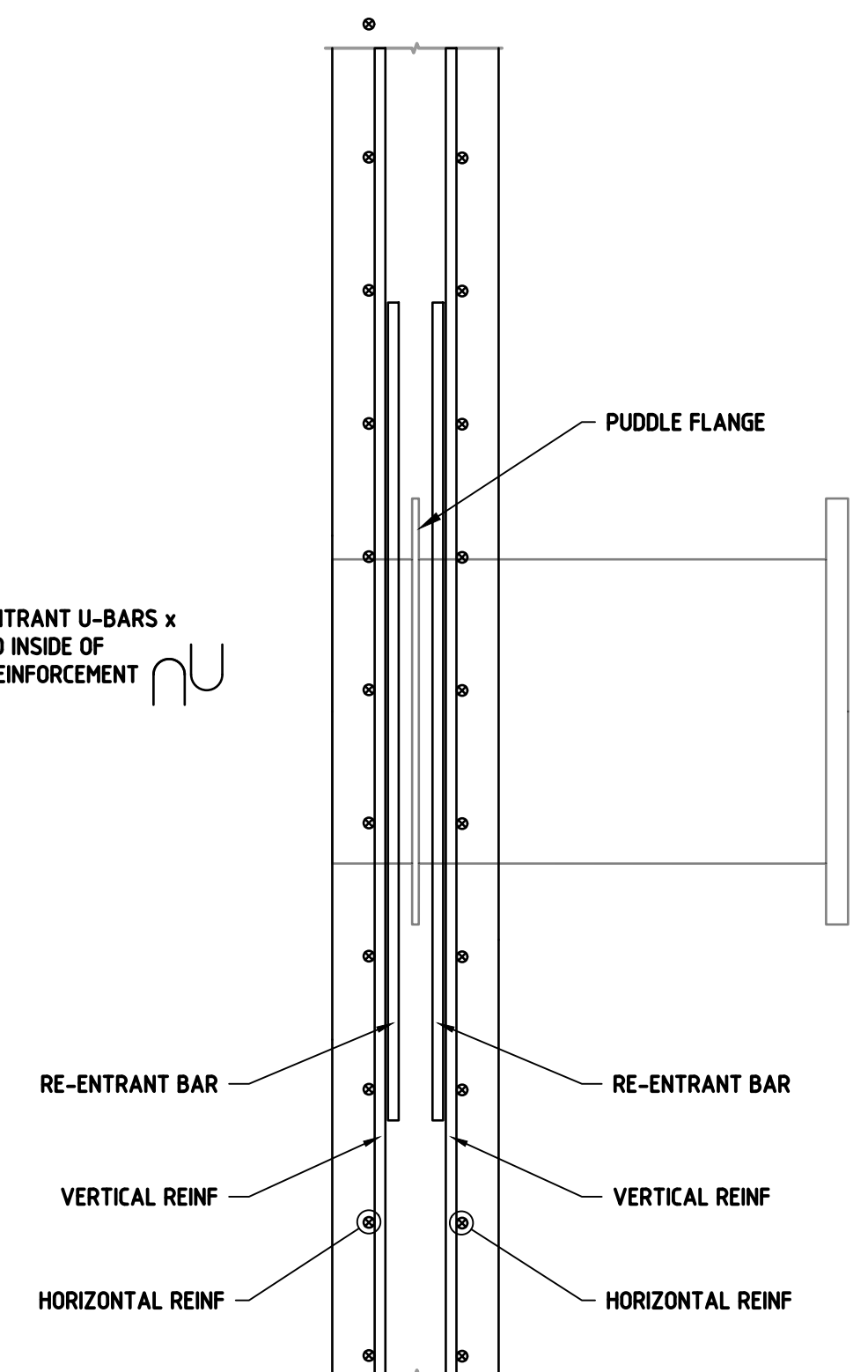
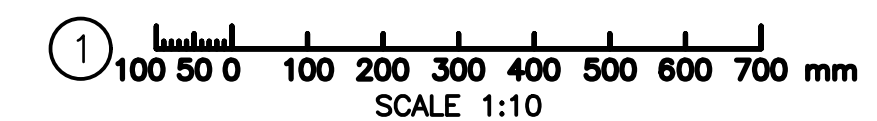


ELEVATION

TYPICAL REINFORCEMENT AT PIPE PENETRATIONS

SCALE 1

NOTE: MAINTAIN 50 COVER TO SIDE OF PENETRATION



SECTION X
SCALE 1

Plexus Consulting

WISE
WATER INFRASTRUCTURE
SCIENCE ENGINEERING

WISE PROJECT NO. 1034-03-08

NORTH

CLIENT



DRAWN: JJR	DATE: JAN 2024
CHECKED: BT	DATE: JAN 2024
DESIGNED: NM	DATE: JAN 2024
APPROVED:	DATE:
CLIENT:	

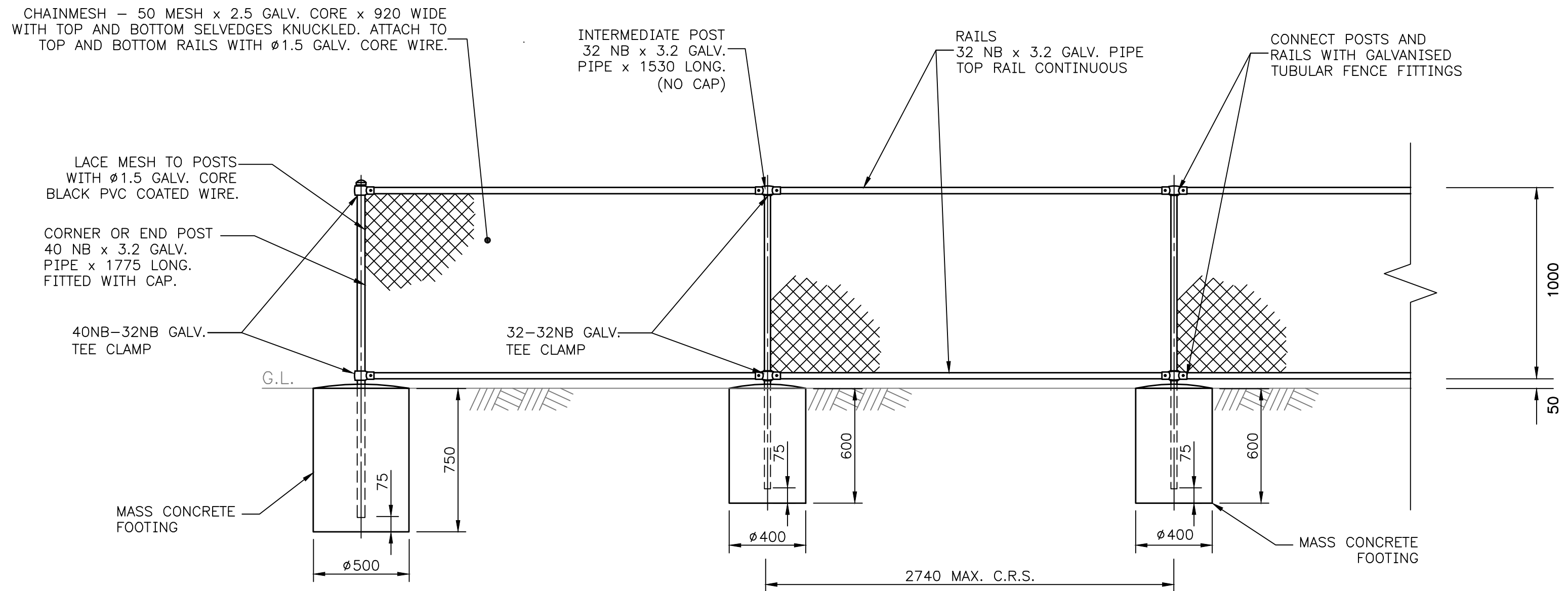
CITY OF KALGOORLIE-Boulder
SOUTH BOULDER WWTP
INLET WORKS
DETAILS

SCALE: AS NOTED	DRG No 1034-03-08-DWG-011	REV D
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FOR 100% REVIEW

NOT FOR CONSTRUCTION

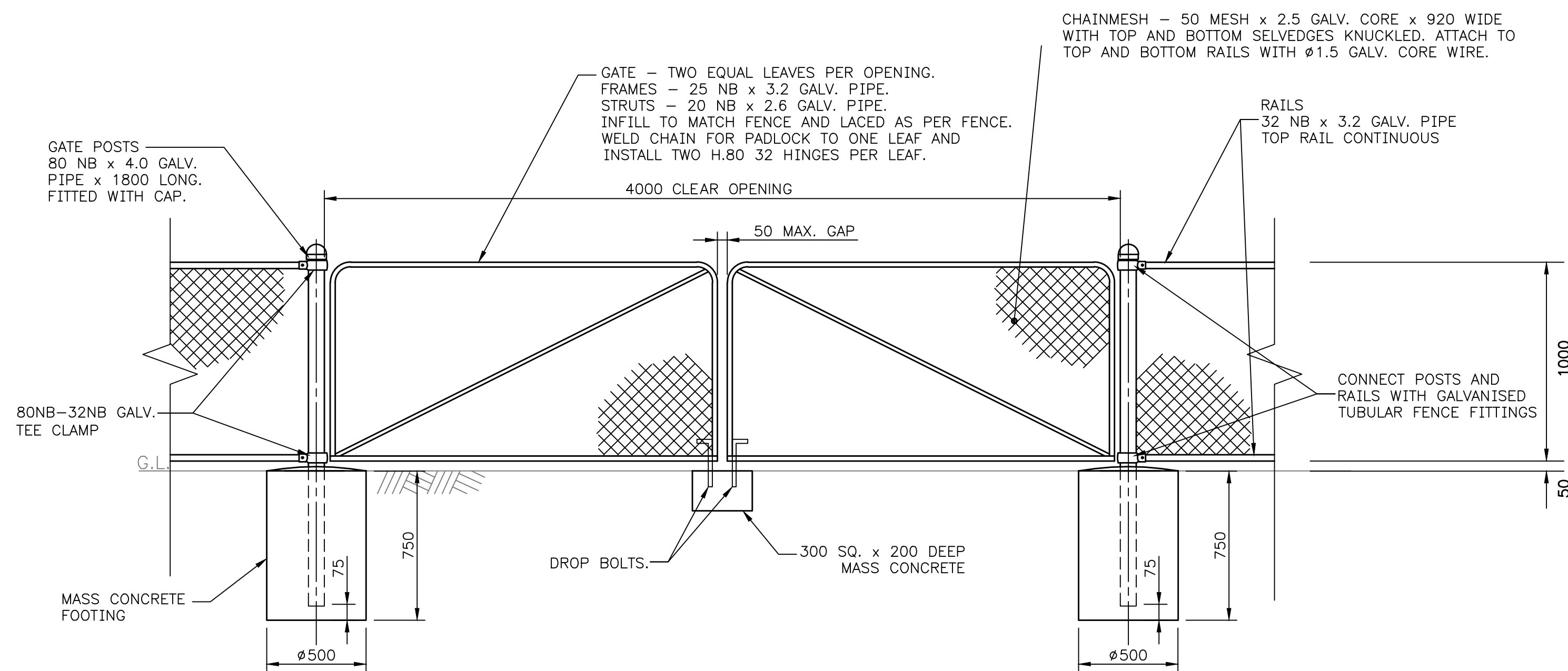
REV	DATE	REVISION DESCRIPTION	DRAWN	CHECKED	DESIGNED	APPROVED	CLIENT
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C	20/02/24	RE-ISSUED FOR 100% REVIEW	JJR	BT	NM		
B	11/01/24	ISSUED FOR 100% REVIEW	JJR	BT	NM		
A	16/06/23	ISSUED FOR CLIENT REVIEW - 70%	MJ	BT	NM		



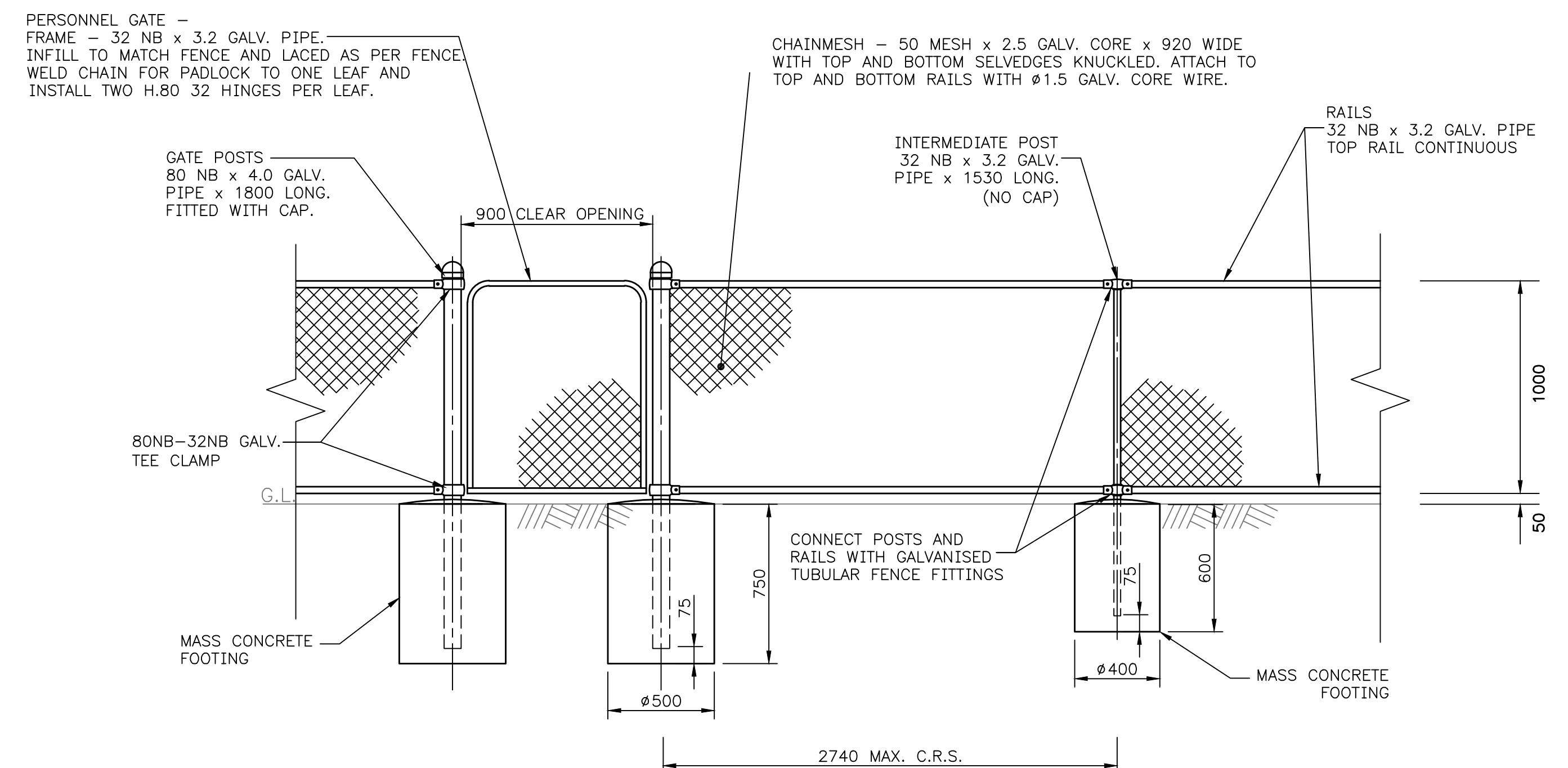
CORNER AND INTERMEDIATE BAYS
SCALE: 1:20

NOTES

- FENCING TO BE SUPPLIED & INSTALLED IN ACCORDANCE WITH AS1725 PART 1 AND AS2423.
- ALL FITTINGS TO BE HOT DIP GALVANIZED TO AS 4680.
- ALL FASTENERS TO BE HOT DIP GALVANIZED TO AS 1214.
- CONCRETE FOOTING MIN GRADE N20 CONCRETE. FOOTINGS MAY BE EITHER SQUARE OR CIRCULAR.
- FIELD COATING REPAIR - DAMAGED COATING TO BE THOROUGHLY WIRE BRUSHED AND TREATED WITH TWO COATS OF DIMET ZINC RICH PAINT No. 10 OR APPROVED EQUIVALENT, OVERLAPPING ORIGINAL COATING.
- SERVICE DUTY FOR CHAIN LINK FENCE TO BE HEAVY DUTY FABRIC- 50mm PITCH X 3.15mm WIRE HEAVY GALVANISED QUALITY COMPLIANT TO AS1725-2010 PART 1 AND AS2423.
- PIPE GRADE WILL BE CLASS 1 (MEDIUM QUALITY).



DOUBLE GATES
SCALE: 1:20



PERSONNEL GATE
SCALE: 1:20

TWO RAIL CHAINWIRE FENCE

ISSUED FOR TENDER

1 500 0 500 1000 mm
SCALE 1:20

REV	DATE	REVISION DESCRIPTION	DRAWN	CHECKED	DESIGNED	APPROVED	CLIENT
0	01.03.24	ISSUED FOR TENDER	BD	MW	BD	GD	CKB



NORTH

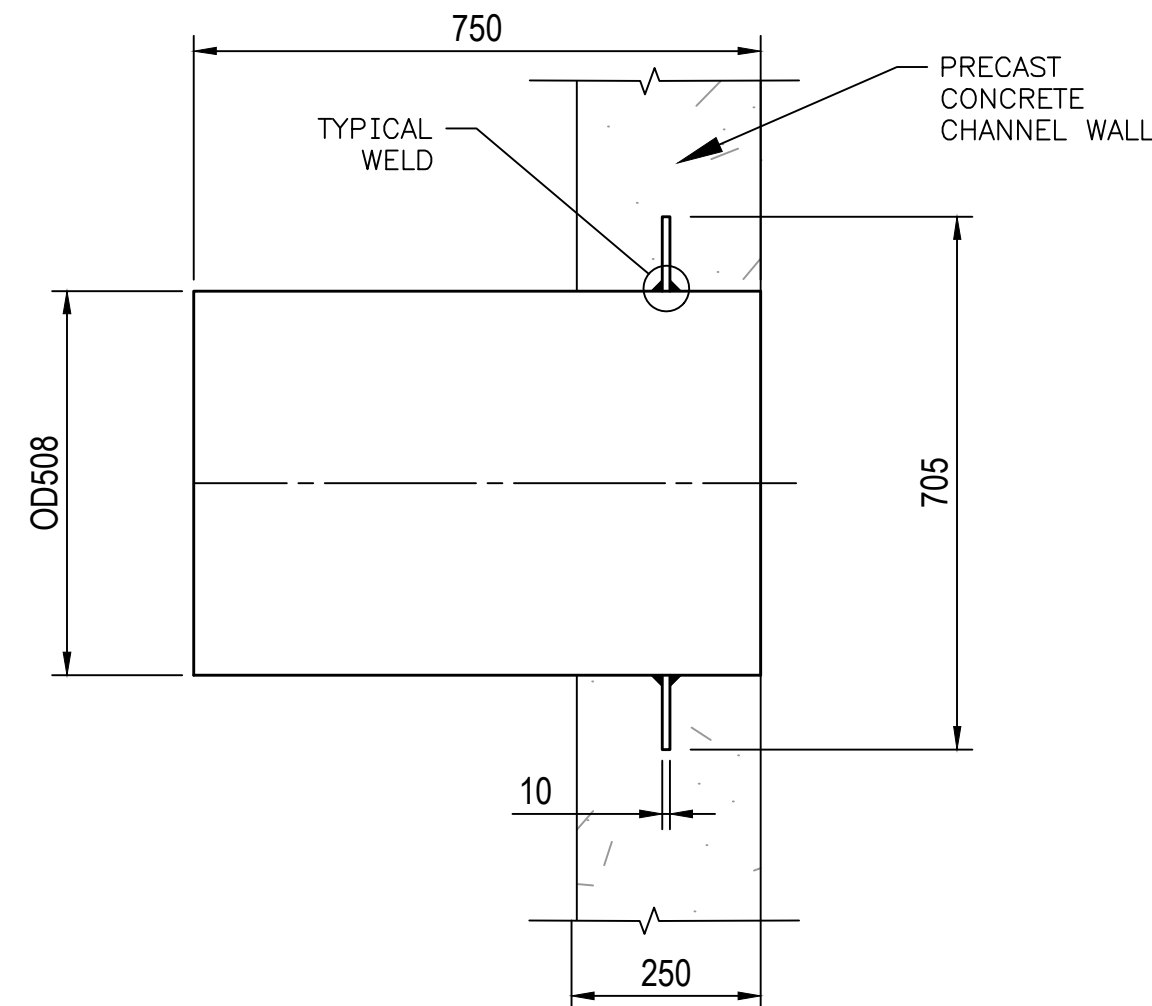
CLIENT



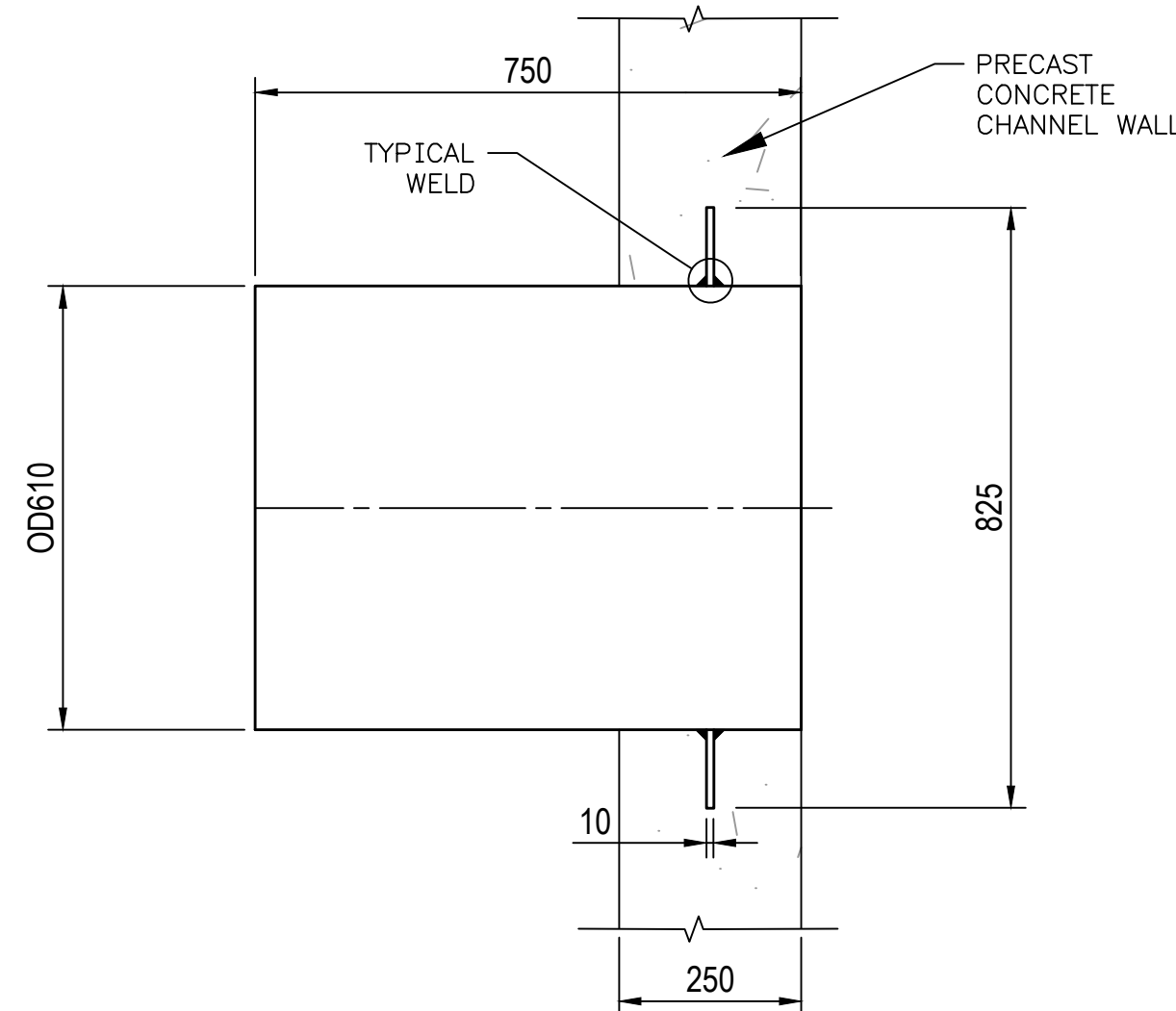
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CHECKED: MW	DATE: JAN. 2024
DESIGNED: BD	DATE: JAN. 2024
APPROVED: GD	DATE: JAN. 2024
CLIENT: CITY OF KALGOORLIE BOULDER	DATE:

CITY OF KALGOORLIE BOULDER
SOUTH BOULDER WWTP
INLET WORKS
INTERNAL FENCE DETAILS

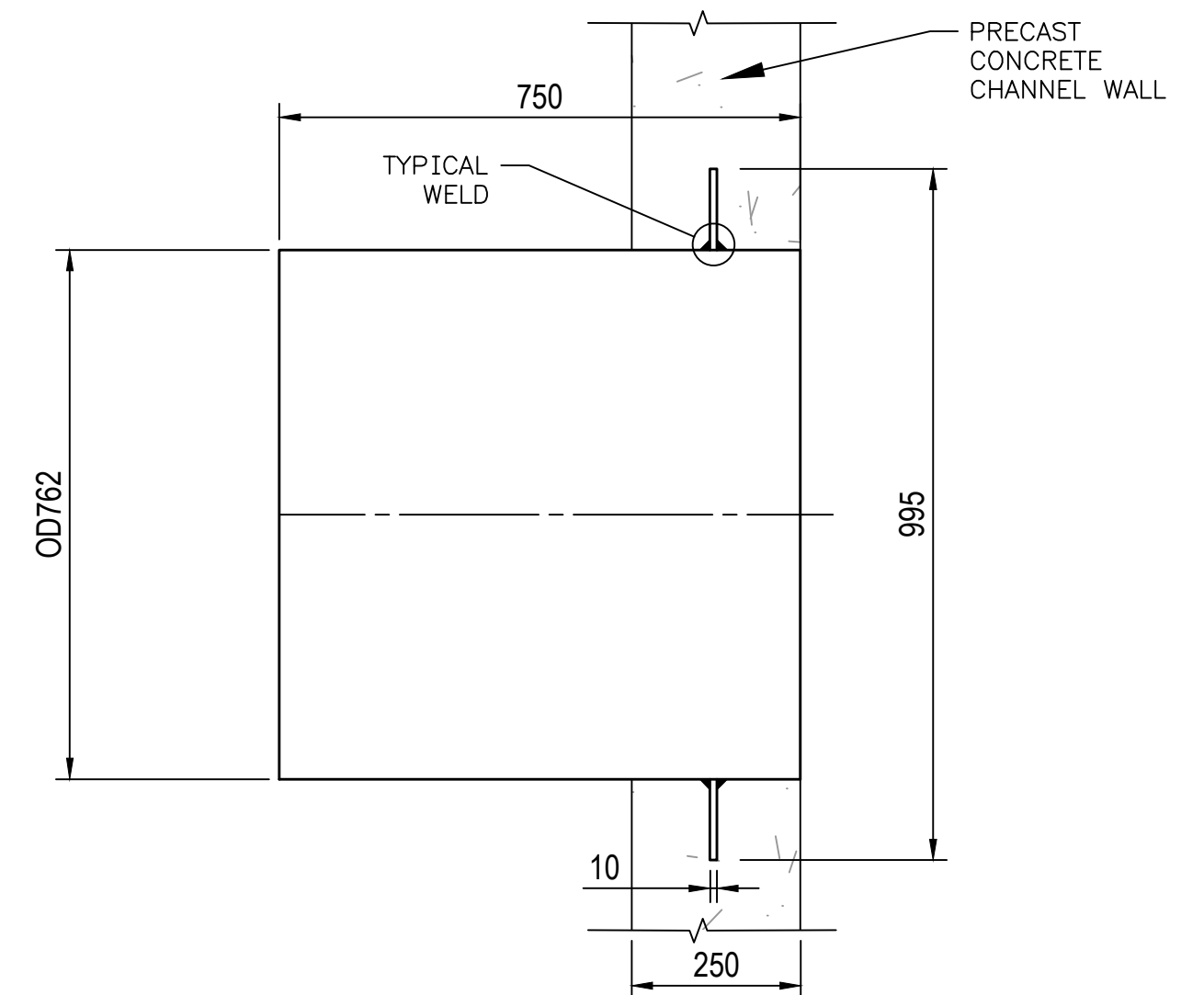
SCALE: AS SHOWN	DRG No 1034-03-08-DWG-013	REV 0
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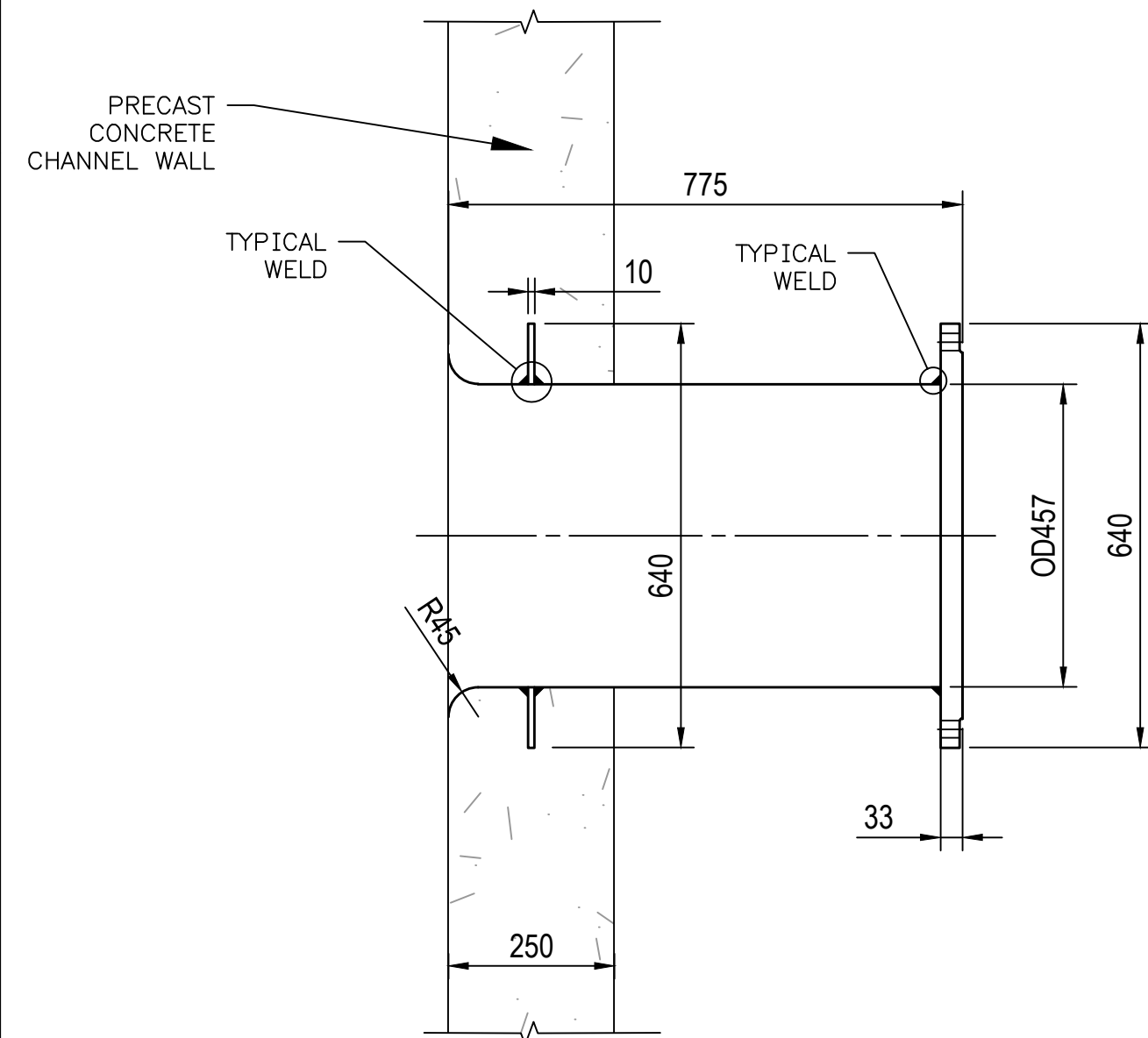
ITEM 7A– DN500 SS316 END PIPE WITH PUDDLE FLANGE (OD508)
1 REQUIRED



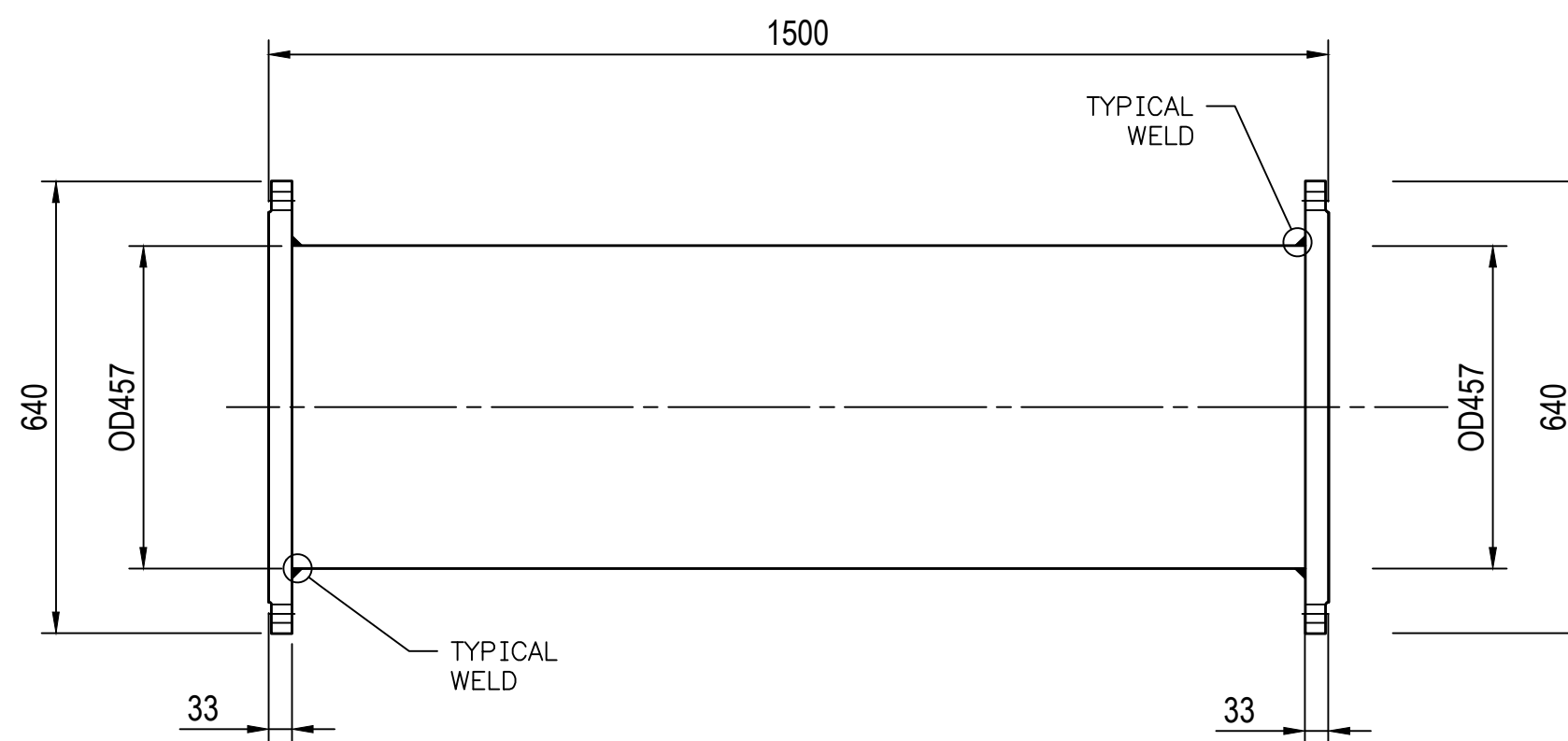
ITEM 7B – DN600 SS316 END PIPE WITH PUDDLE FLANGE (OD610)
2 REQUIRED



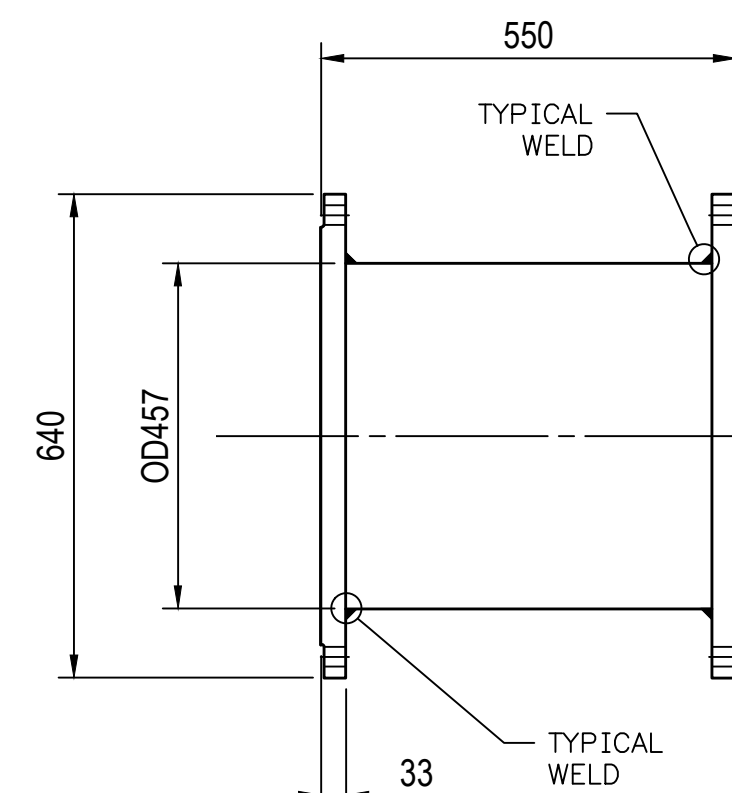
ITEM 7C – DN750 SS316 END PIPE WITH PUDDLE FLANGE (OD762)
1 REQUIRED



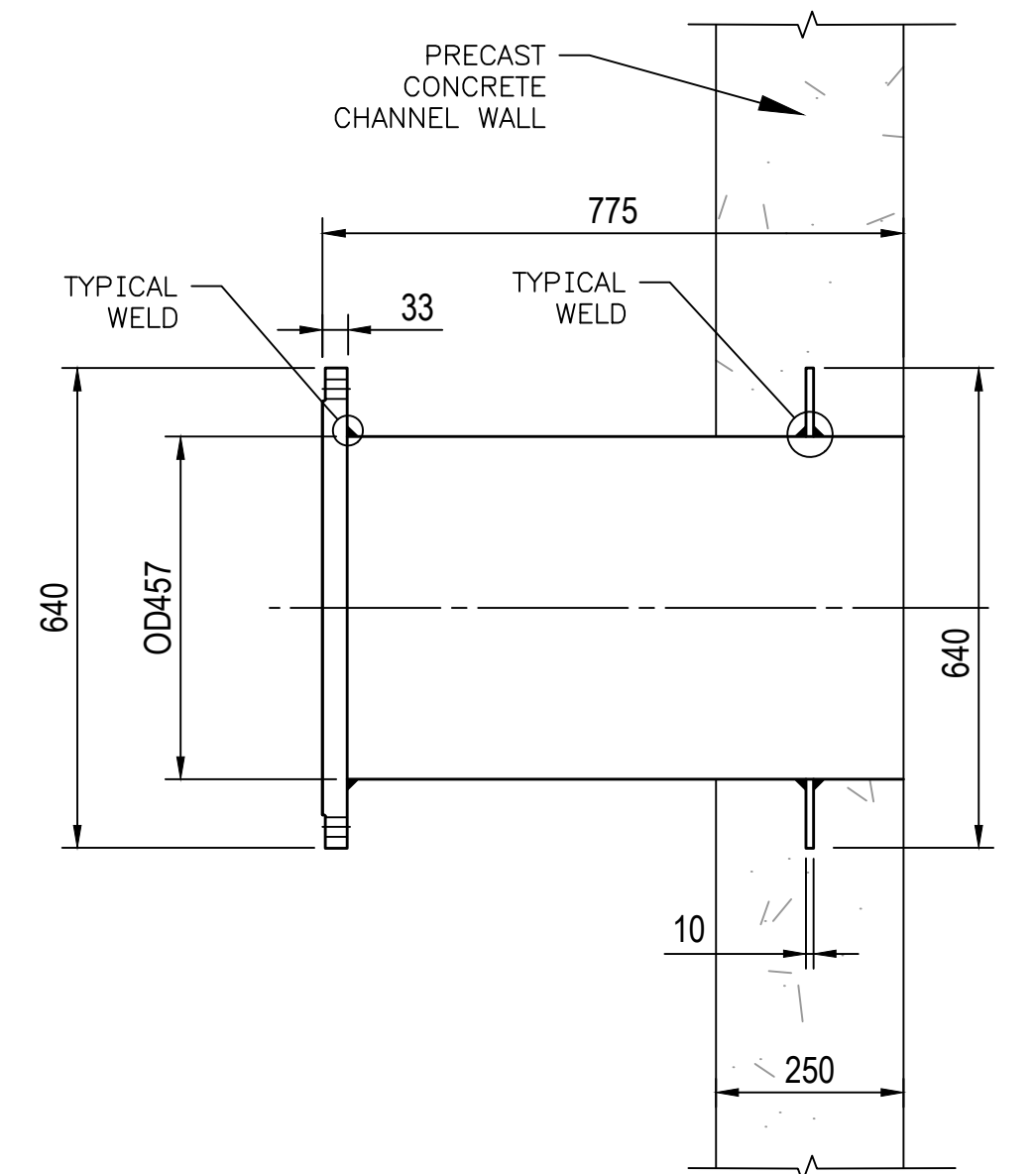
ITEM 7D – DN500 SS316 END PIPE WITH BELLMOUTH INLET & PUDDLE FLANGE (OD457)
2 REQUIRED



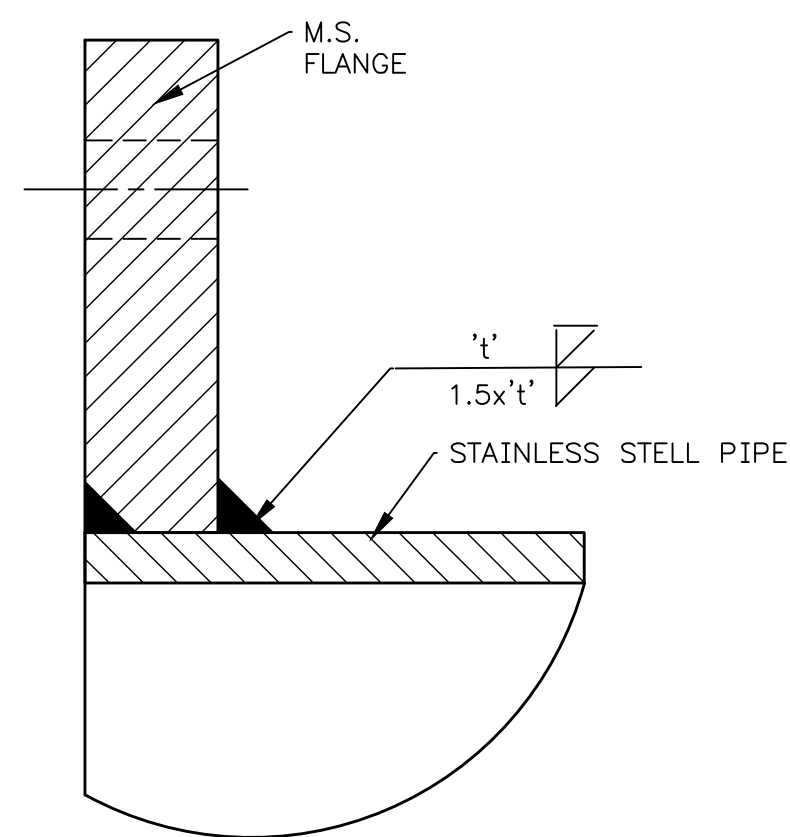
ITEM 12A – DN450 SS316 FLANGED PIPE SPOOL (OD457)
2 REQUIRED



ITEM 12B – DN450 SS316 FLANGED PIPE SPOOL (OD457)
2 REQUIRED



ITEM 7E– DN500 SS316 END PIPE WITH PUDDLE FLANGE (OD457)
2 REQUIRED



TYPICAL WELD – FLANGE WELDING
NOTE: USE E309MoL WELDING ELECTRODE OR SIMILAR

GENERAL NOTES

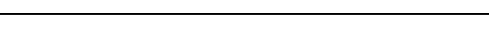
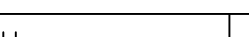
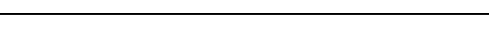
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
- WELDING SHALL COMPLY WITH AS 4041 – PIPEWORK CLASS 2P.
- FABRICATES STAINLESS STEEL ITEMS SHALL BE TYPE 316L.
- FLANGES SHALL BE MANUFACTURED IN ACCORDANCE WITH AS 4087.
- UNLESS NOTED FLANGES ARE PN16 AND RAISED FACE JOINT UNLESS OTHERWISE NOTED.
- COMPRESSED FIBRE GASKET MATERIAL: NOVUS 30 OR KLINGERSIL C4430, THICKNESS 1.5 MM, ALLOWABLE GASKET STRESS OF 135 MPA @ 20 °C.
- BOLTS, NUTS AND WASHERS COMPLY WITH AS 4291 AND SHALL BE SS316.

FLANGE DETAILS AS4087 PN16

PIPE DN	FLANGE OUTSIDE DIA. (mm)	WELD THICKNESS (t)	BOLT HOLE DIA. (mm)	NO. OF BOLTS	SIZE OF BOLTS	BOLT/TORQUE (Nm)	STAINLESS STEEL BOLTING GRADE
DN450	640	5	26	12	24	435	A4–70
DN500	705	5	26	16	24	631	A4–70
DN600	825	6	30	16	27	861	A4–70
DN750	995	7	33	20	30	1524	A4–80

100 50 0 100 200 300 400 500 600 700 mm
SCALE 1:10

ISSUED FOR TENDER

H											NORTH 	CLIENT 	DRAWN: R. BANAA	DATE: 1/12/2023	CITY OF KALGOORLIE—BOULDER SOUTH BOULDER WWTP INLET WORKS PIPE SPECIAL DETAILS				SCALE: AS NOTED	DRG No 1034—03—08—DWG—014	REV 0
									CHECKED: M. WOOD				DATE: 1/12/2023								
									DESIGNED: R. BANAA				DATE: 1/12/2023								
									APPROVED: G. DEGEBRODT				DATE: 1/12/2023								
	0	01.03.24	ISSUED FOR TENDER		BD	MW	BD	GD	CKB												
REV	DATE	REVISION DESCRIPTION		DRAWN	CHECKED	DESIGNED	APPROVED	CLIENT	WISE PROJECT NO.	1034—03—08											
	1		2						3		4		5		6		7				
														</							

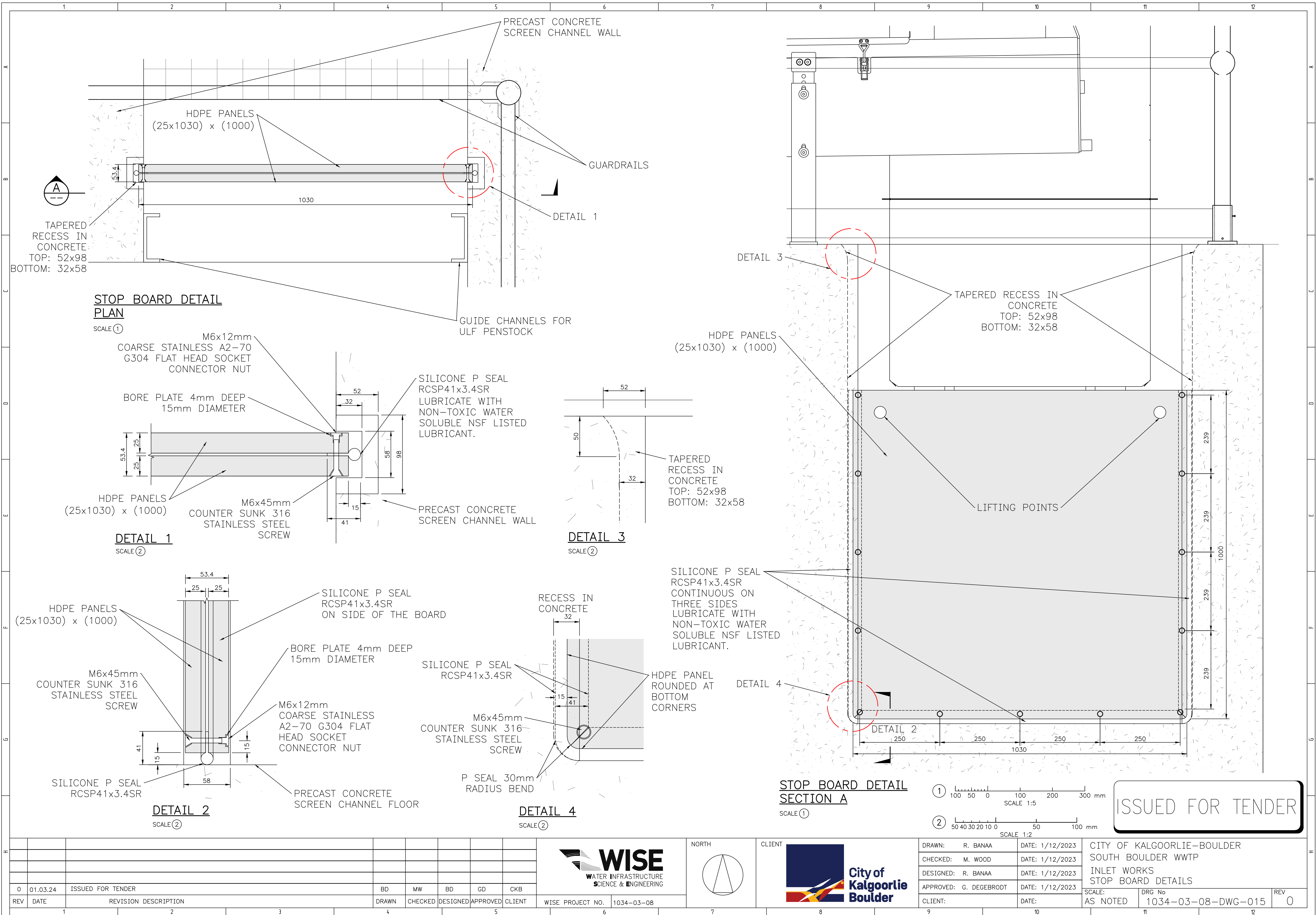
WISE
WATER INFRASTRUCTURE
SCIENCE & ENGINEERING

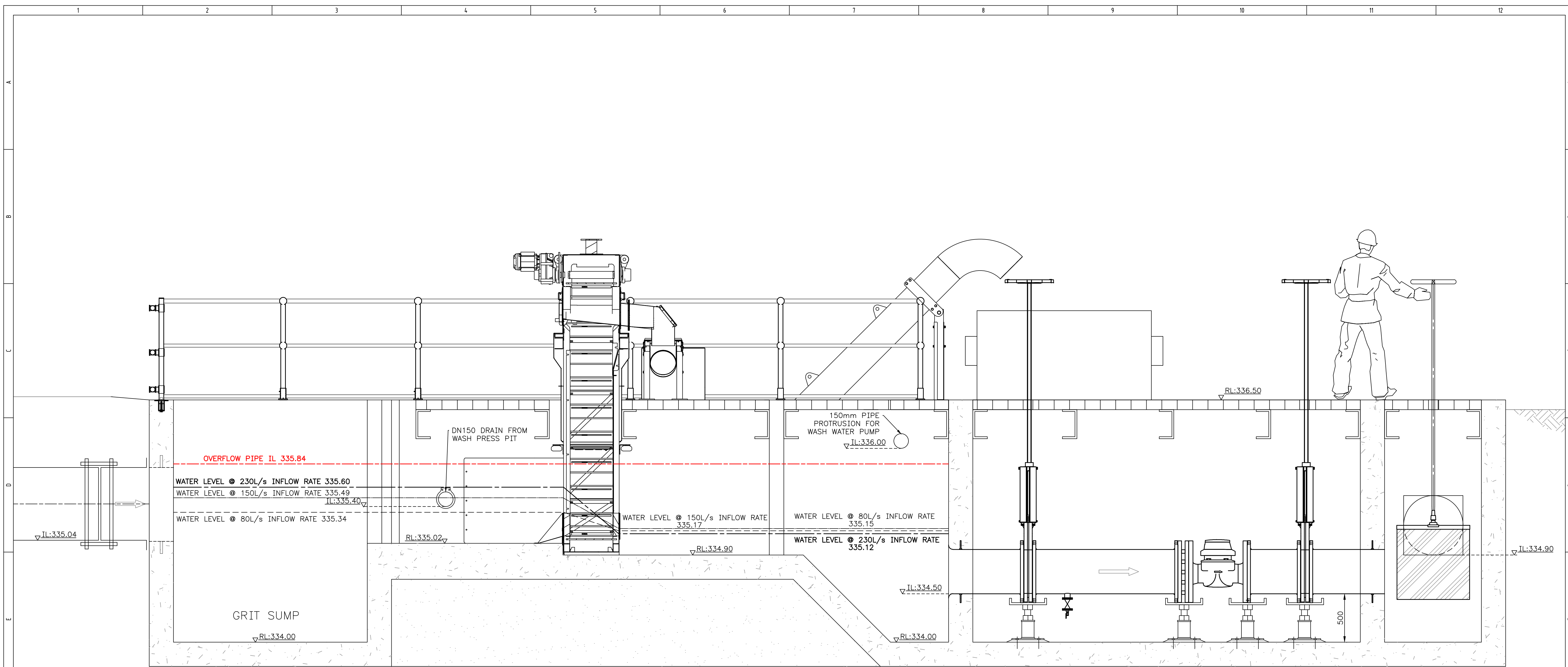
NORTH

CLIENT

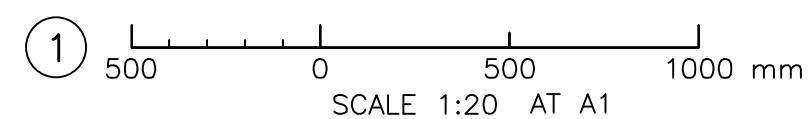
**City of
Kalgoorlie
Boulder**

WISE PROJECT NO. 1034–03–08






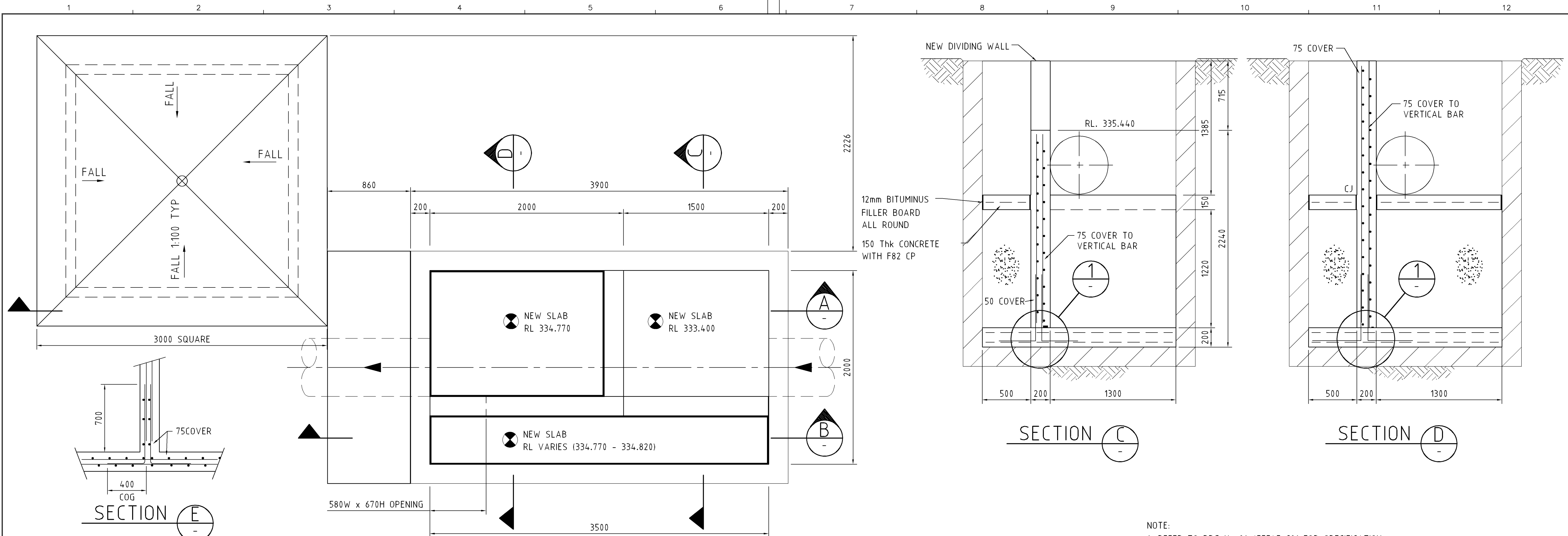


SECTION A
SCALE ① --

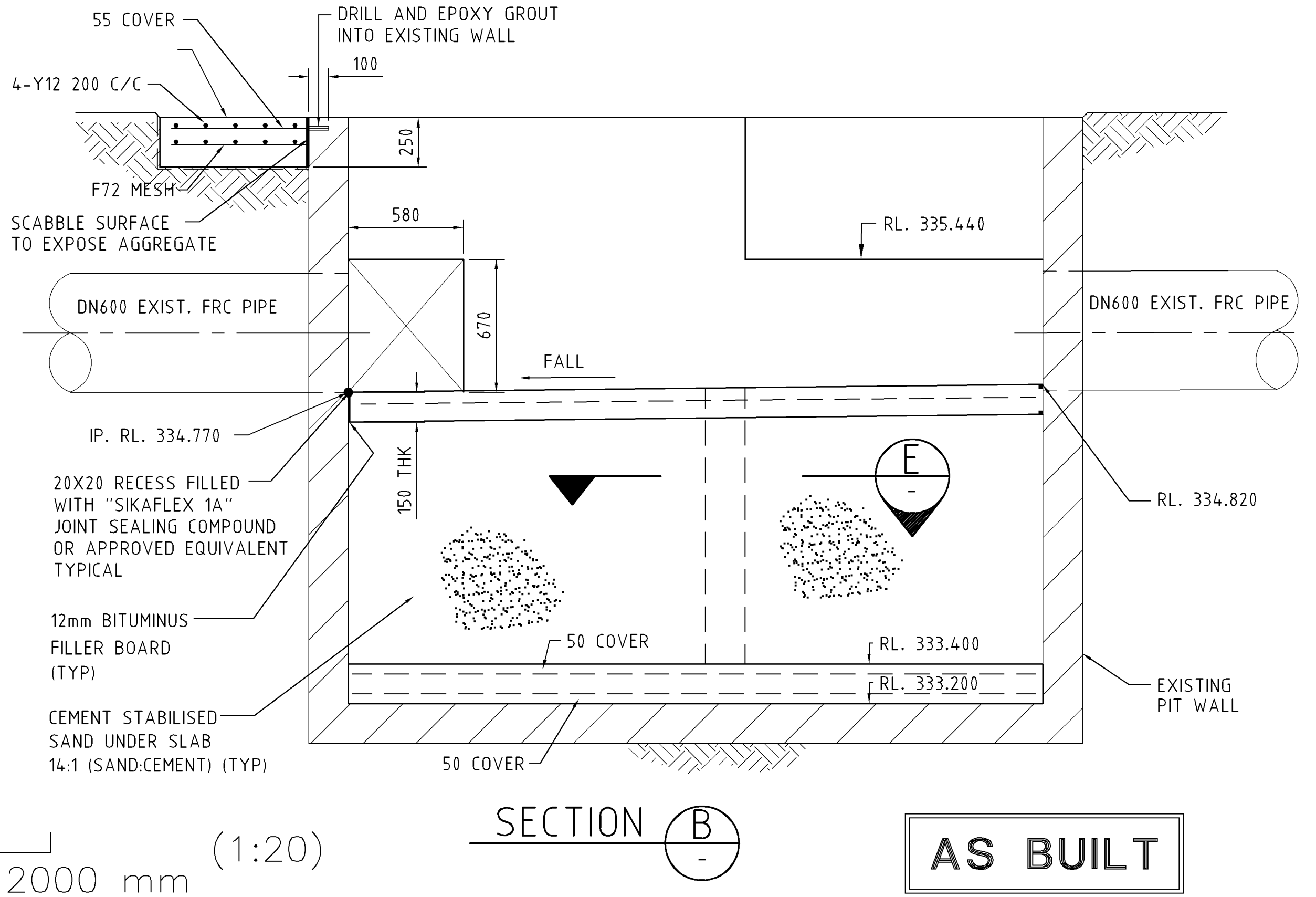
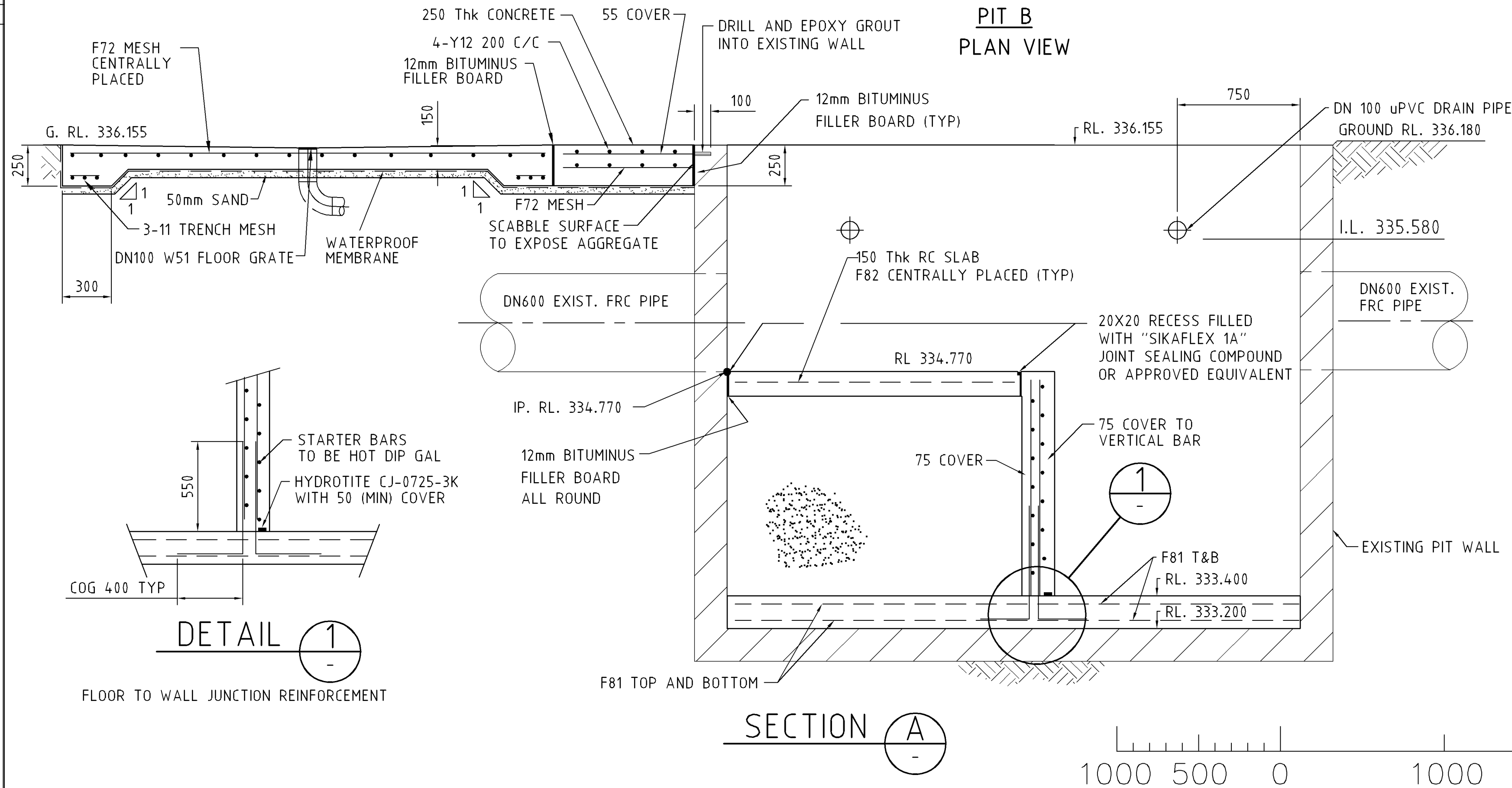


ISSUED FOR TENDER

H											NORTH 	CLIENT 	DRAWN: RB	DATE: FEB. 2023	CITY OF KALGOORLIE—BOULDER SOUTH BOULDER WWTP INLET WORKS OPERATIONAL LEVELS		
									CHECKED: PH				DATE: FEB. 2023				
									DESIGNED: PH				DATE: FEB. 2023				
									APPROVED: GD				DATE: FEB. 2023				
	0	01.03.24	ISSUED FOR TENDER				BD	MW	BD				GD	CKB			SCALE:
REV	DATE	REVISION DESCRIPTION				DRAWN	CHECKED	DESIGNED	APPROVED	CLIENT	WISE PROJECT NO.	1034—03—08					
		1	2	3	4	5	6	7	8	9	10	11	12				



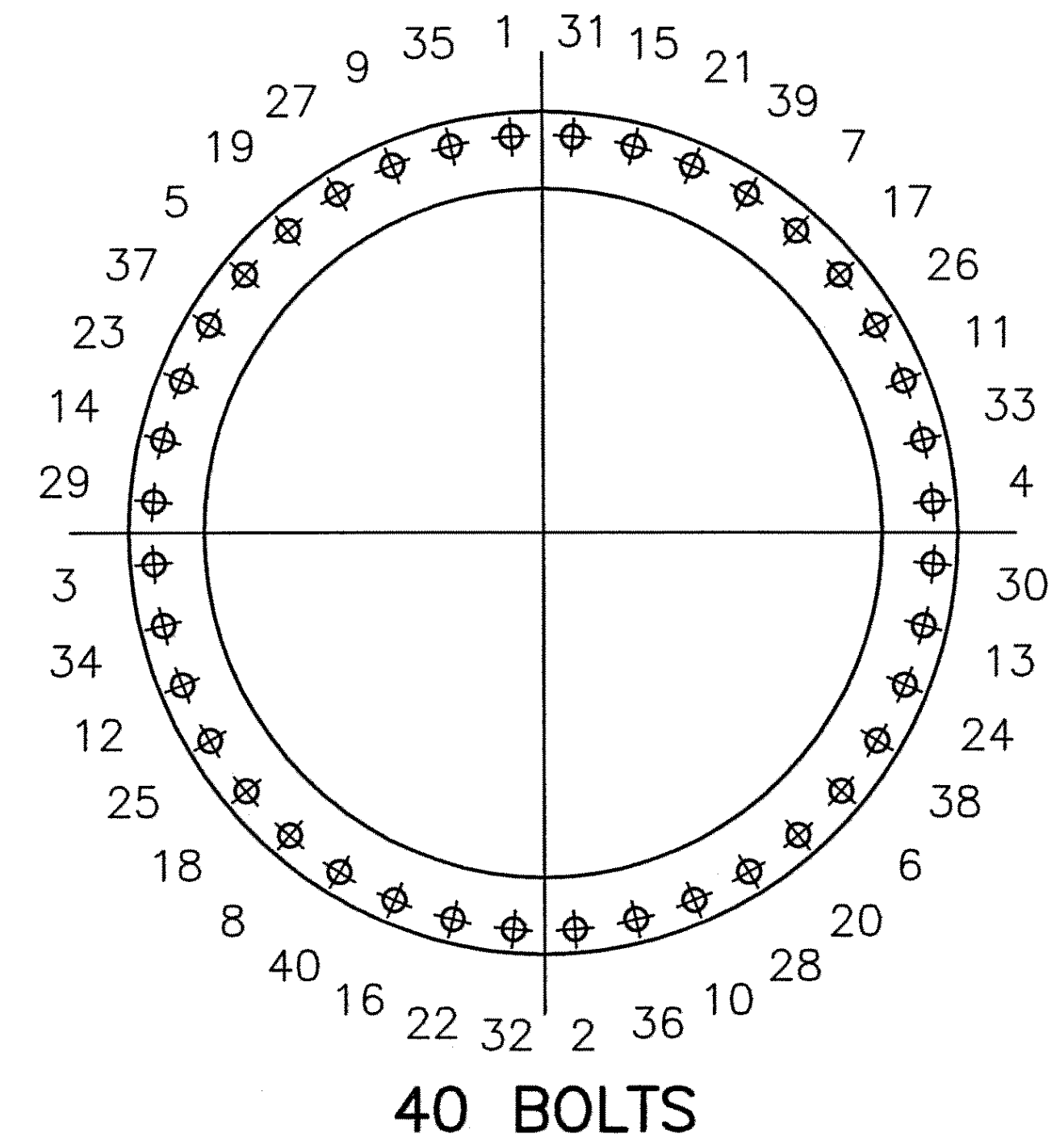
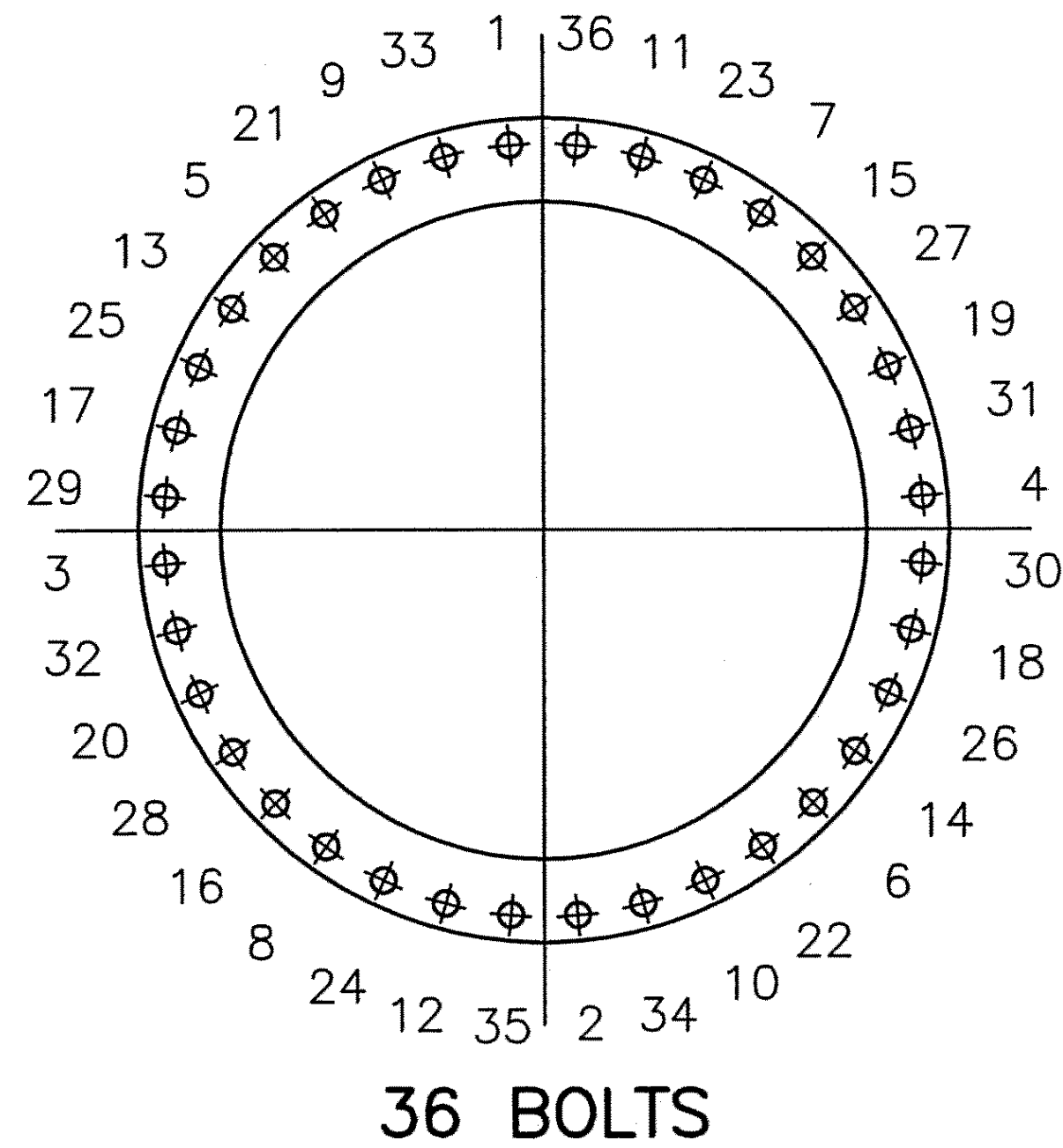
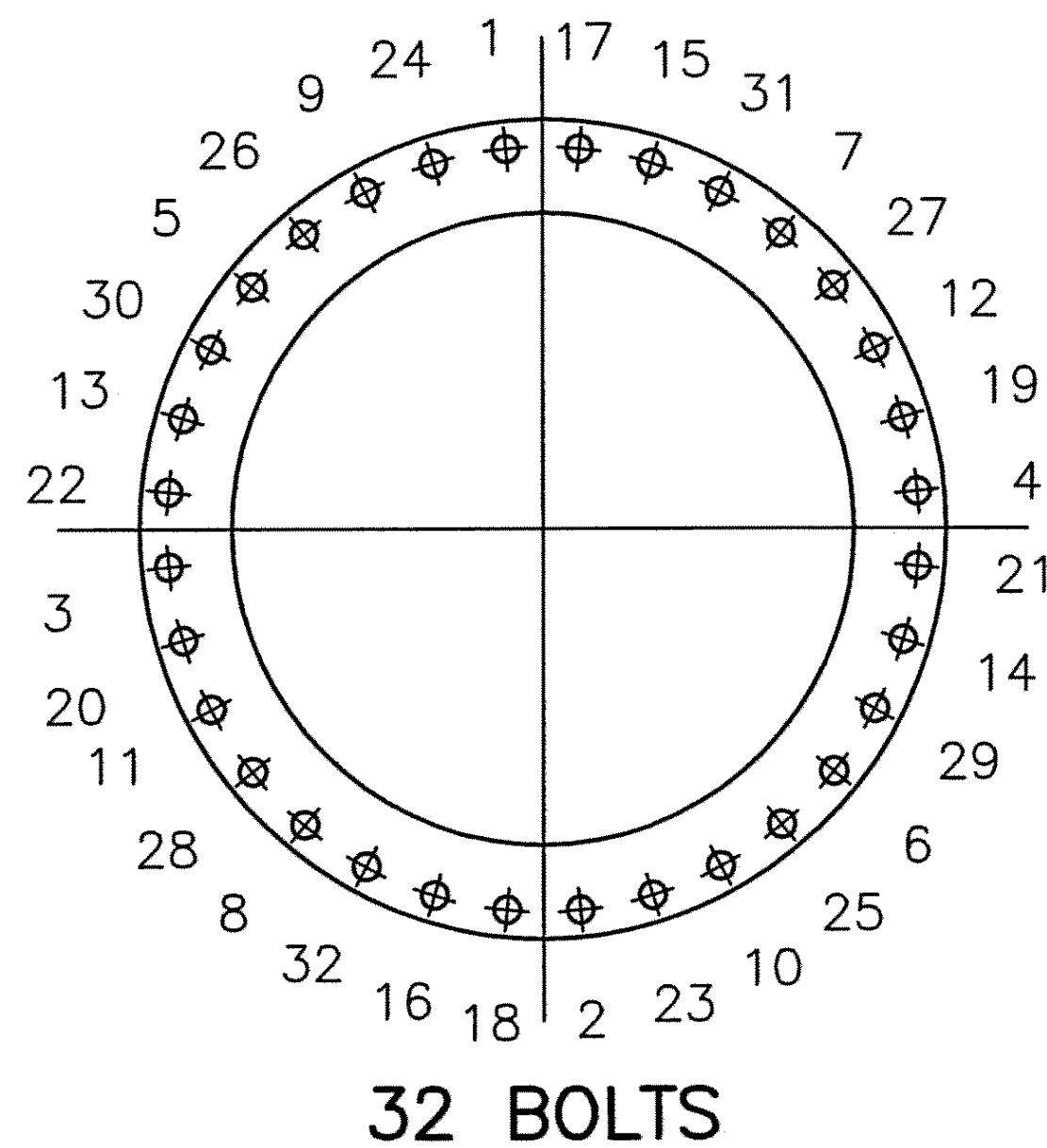
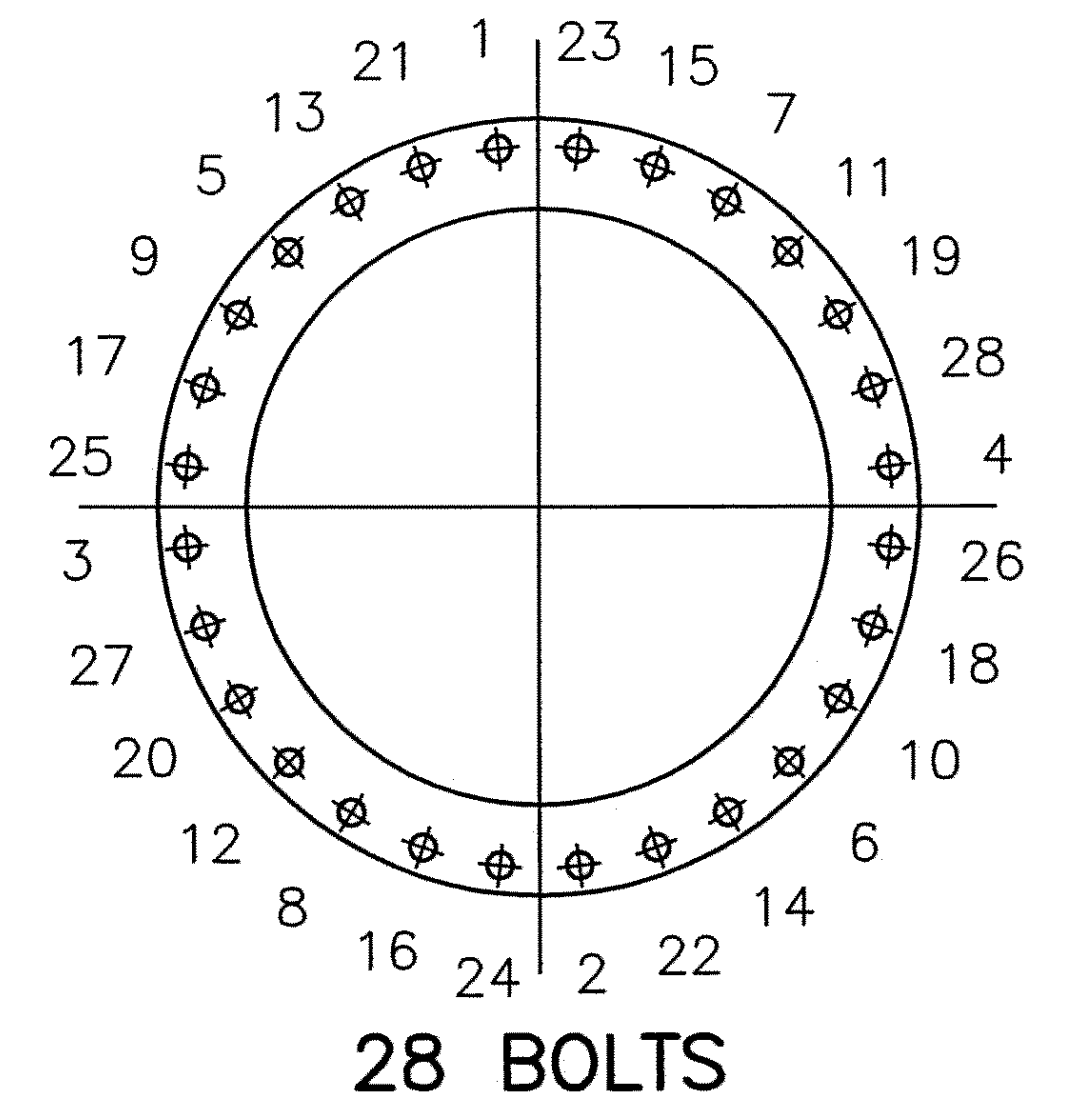
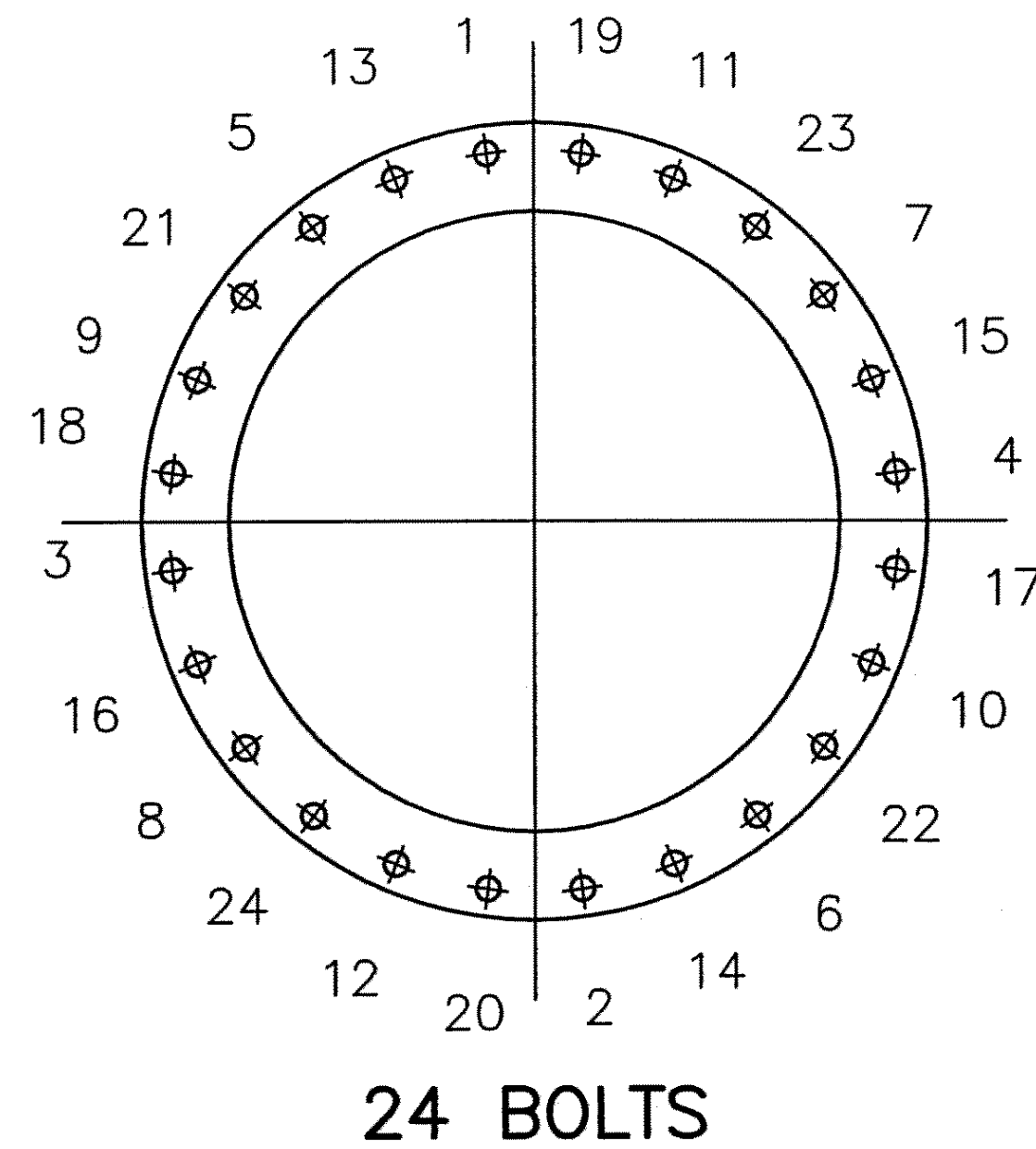
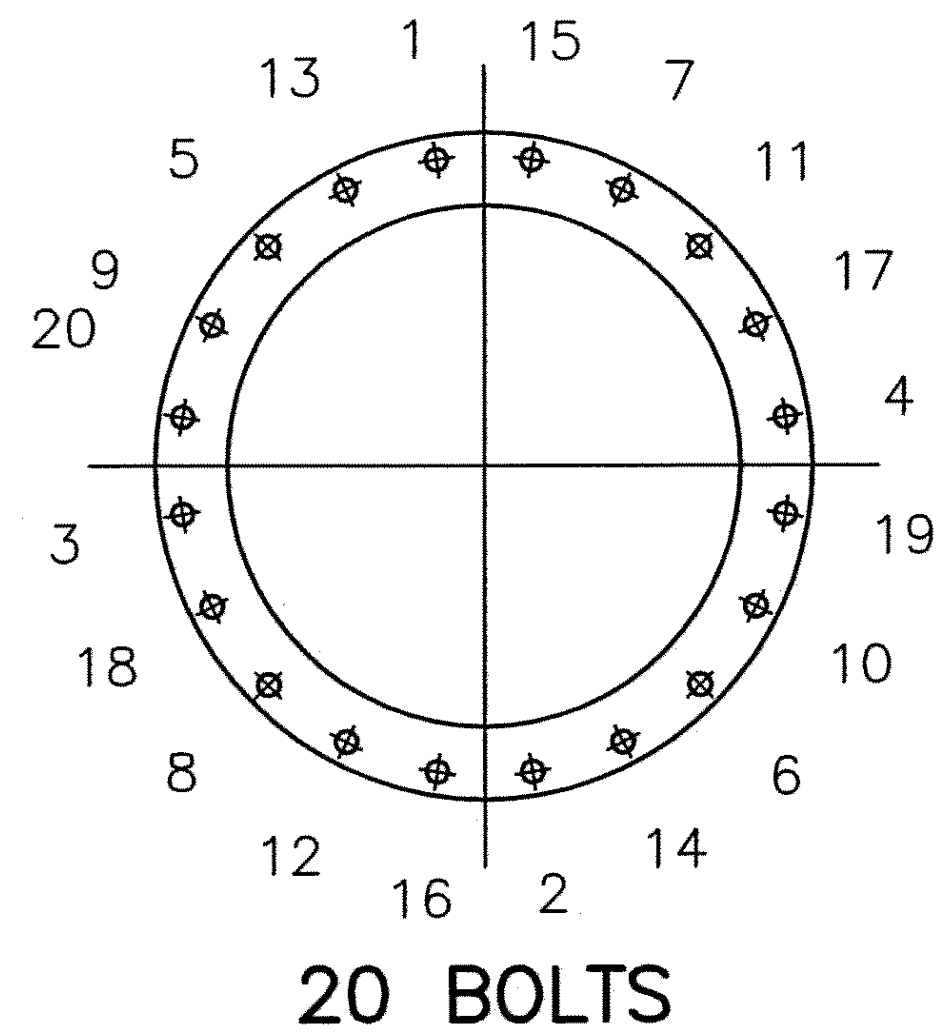
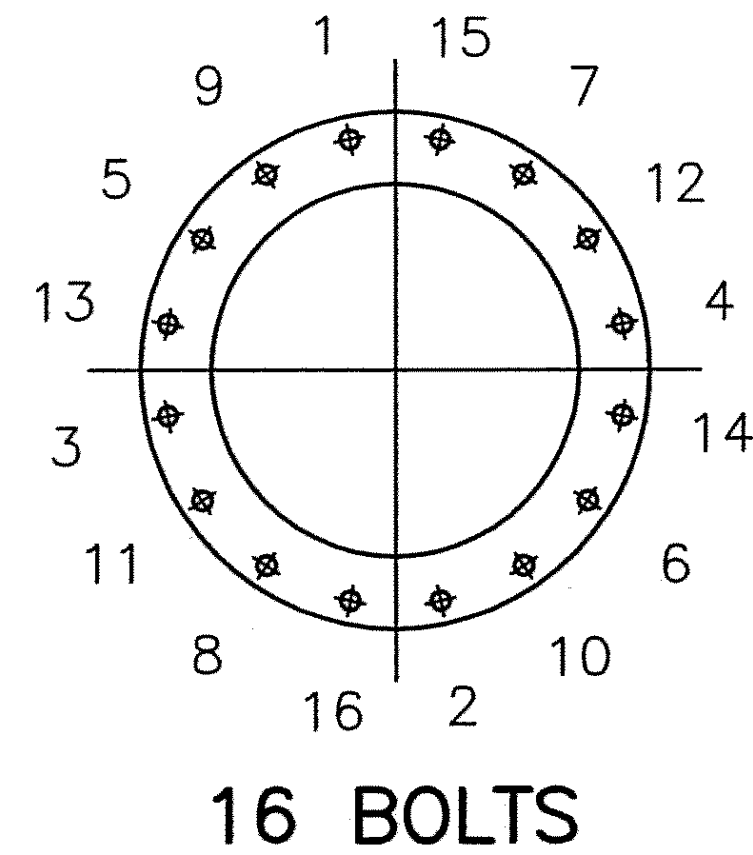
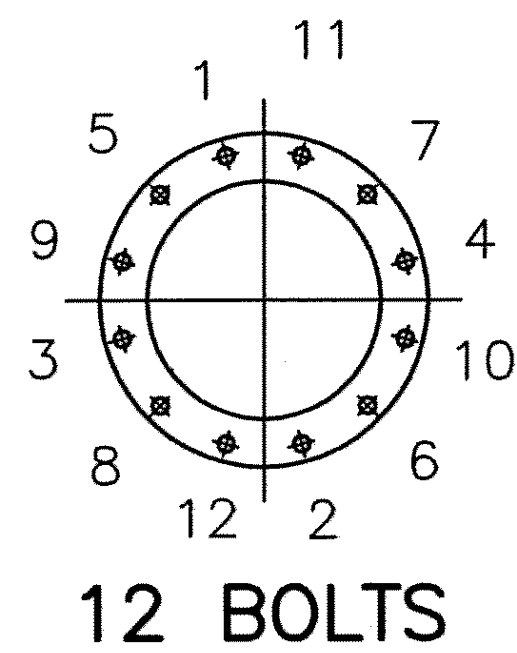
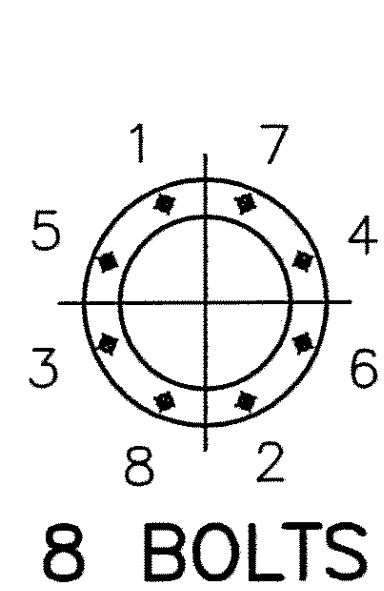
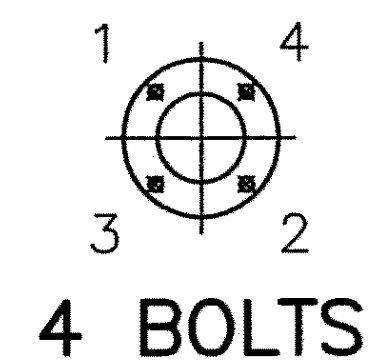
- NOTE:
1. REFER TO DRG No 01-657747-C01 FOR SPECIFICATION
 2. REINFORCEMENT TO BE Y12 @ 175 C/C EACH WAY EACH FACE (TYP) U.N.O
 3. C.J: CONSTRUCTION JOINT



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DES CALC W7070 DES CHD	RECOMMENDED 23/11/1994 M.SHARPE (SIGNED)		WATER CORPORATION PIPE FITTINGS STANDARD - DS 65 G FLANGE BOLT TIGHTENING SEQUENCE		ORIGINAL SHEET SIZE
DRN J.THOMPSON	JOB MANAGER		FILE A18869	PLAN	<div style="font-size: 2em; font-weight: bold; text-align: center;">A3</div>
Q.C. CHD R.CHESTER	APPROVED 23/11/1994 F.HEWETT (SIGNED) PROJECT DIRECTOR		PROJECT	AY58-17-1	