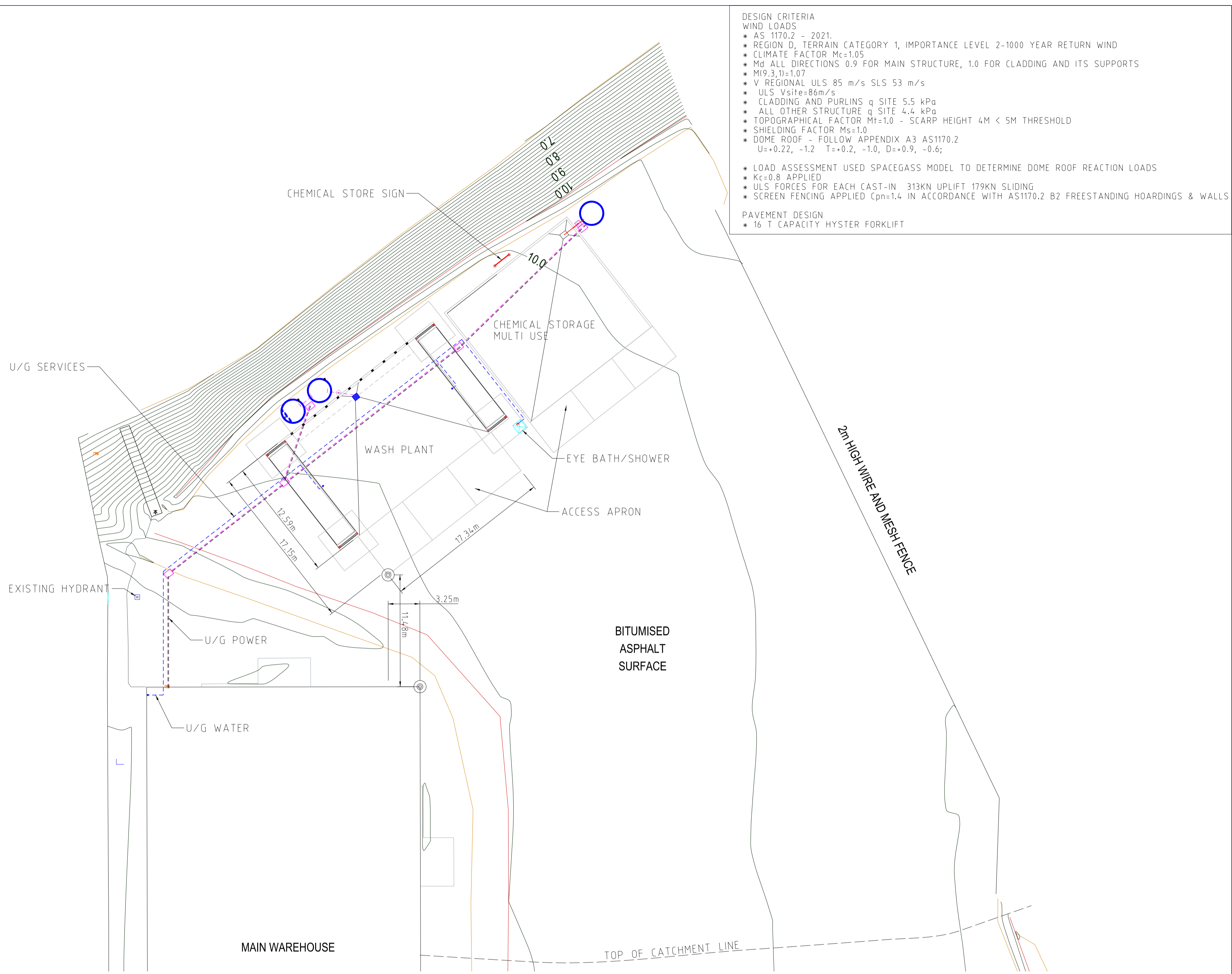




ASSESSED CATCHMENT AREA
SCALE 1:500



SITE PLAN
SCALE 1:250

DESIGN CRITERIA
WIND LOADS
 * AS 1170.2 - 2021.
 * REGION D, TERRAIN CATEGORY 1, IMPORTANCE LEVEL 2-1000 YEAR RETURN WIND
 * CLIMATE FACTOR $M_c=1.05$
 * M_d ALL DIRECTIONS 0.9 FOR MAIN STRUCTURE, 1.0 FOR CLADDING AND ITS SUPPORTS
 * $M_i 9.3, 1.0=1.07$
 * V REGIONAL ULS 85 m/s SLS 53 m/s
 * ULS $V_{site}=86m/s$
 * CLADDING AND PURLINS q SITE 5.5 kPa
 * ALL OTHER STRUCTURE q SITE 4.4 kPa
 * TOPOGRAPHICAL FACTOR $M_t=1.0$ - SCARP HEIGHT 4M < 5M THRESHOLD
 * SHIELDING FACTOR $M_s=1.0$
 * DOME ROOF - FOLLOW APPENDIX A3 AS1170.2
 $U_s=+0.22, -1.2$ $T_s=+0.2, -1.0, D_s=+0.9, -0.6$;
 * LOAD ASSESSMENT USED SPACEGASS MODEL TO DETERMINE DOME ROOF REACTION LOADS
 * $K_{c2}=0.8$ APPLIED
 * ULS FORCES FOR EACH CAST-IN 313KN UPLIFT 179KN SLIDING
 * SCREEN FENCING APPLIED $C_{pn}=1.4$ IN ACCORDANCE WITH AS1170.2 B2 FREESTANDING HOARDINGS & WALLS
 PAVEMENT DESIGN
 * 16 T CAPACITY HYSTER FORKLIFT

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REFERENCE DRAWINGS		REVISIONS				
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5625DS01-5625DS10						
		0	18/12/25	█	█	ISSUED FOR DISCUSSION



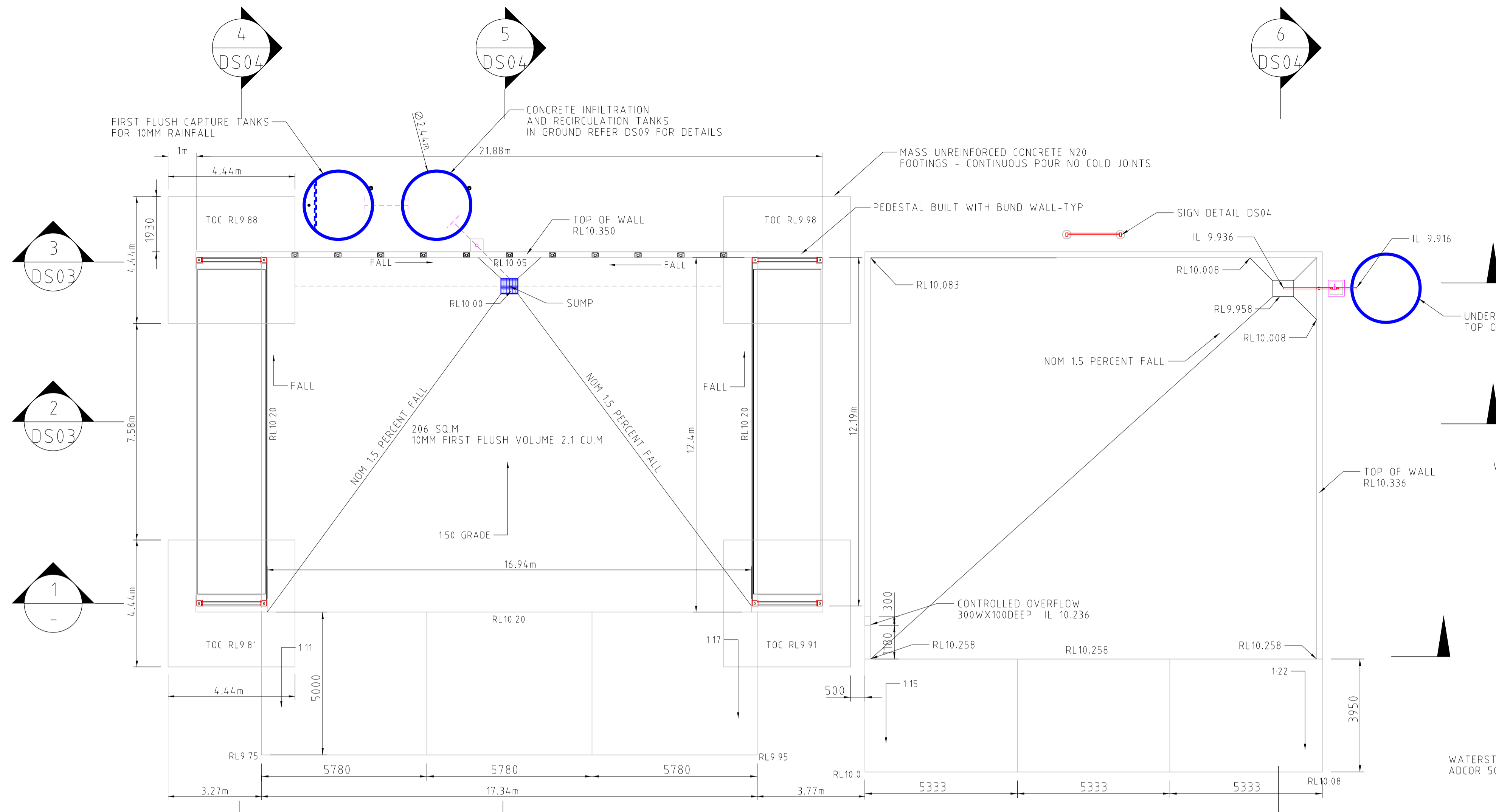
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LOT 471 KING BAY ROAD PORT AREA LA2
 WASH PAD & DG STORE
 CONCRETE DESIGN

SCALE 1 NOTE	PLOT DATE 25/10/25	CAD REF 5625 DGN	JOB No 5625
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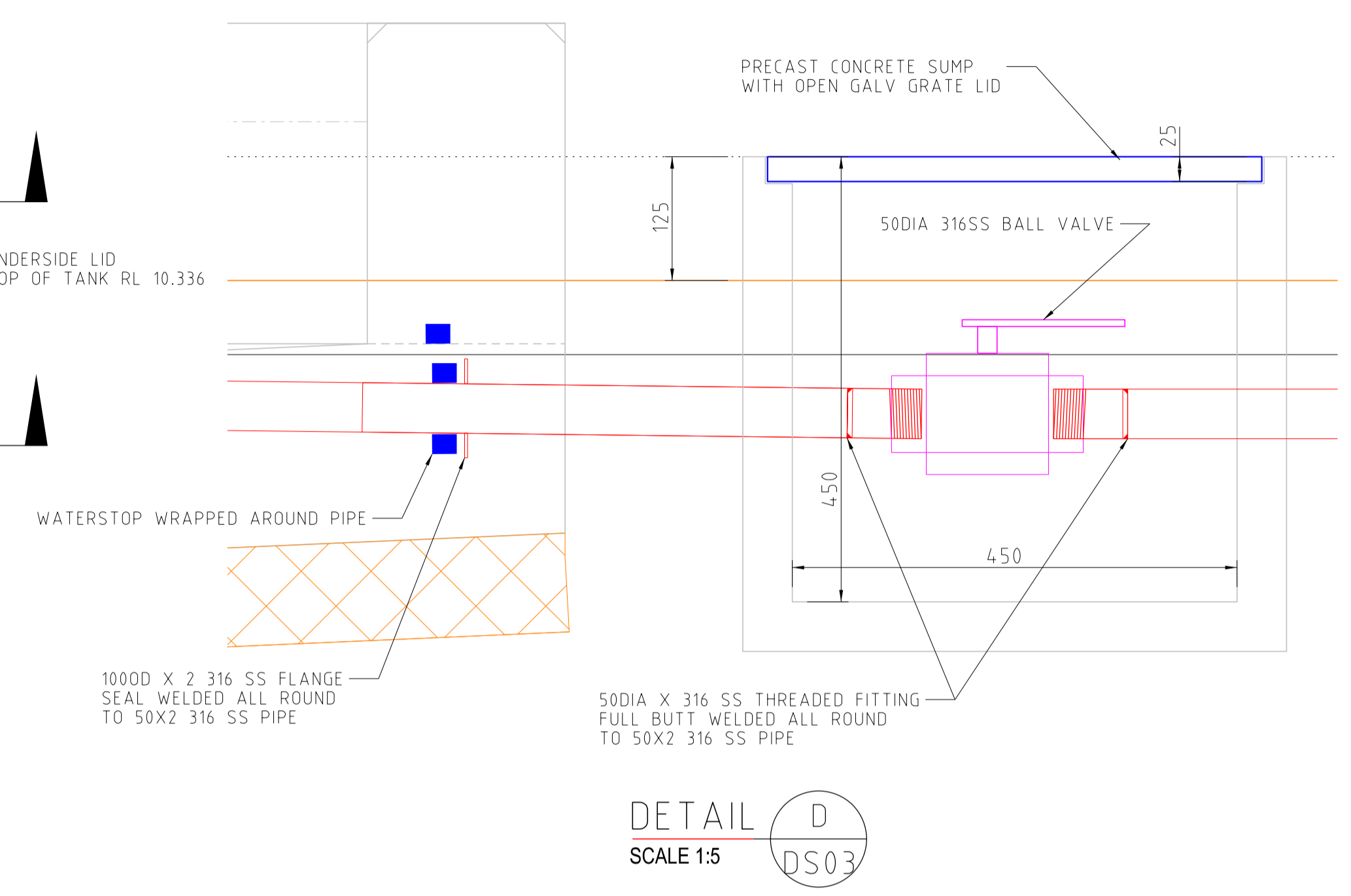
DRAWING
 SITE PLAN WITH SURVEY POINTS

DRAWING No 5625-DS-01	REV 0
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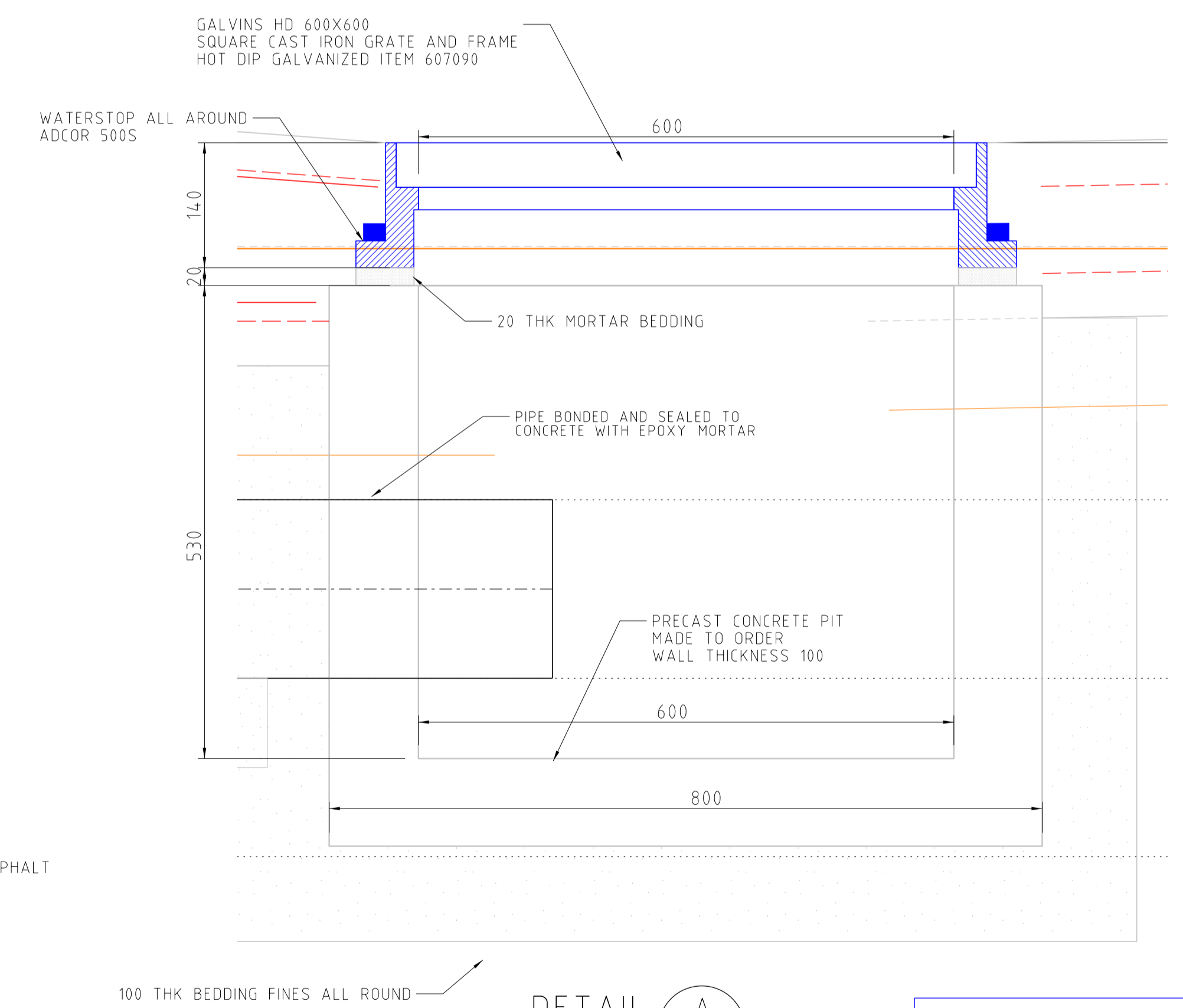


WASHPAD PLAN
SCALE 1:100

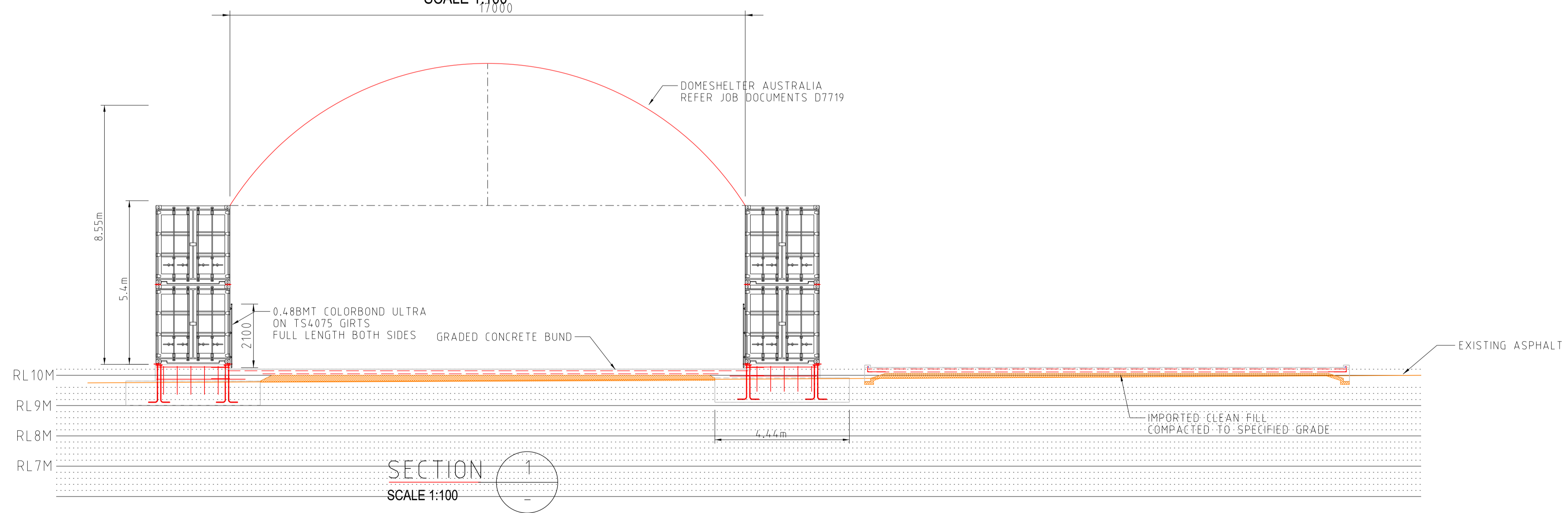
DG PAD PLAN
SCALE 1:100



DETAIL D
SCALE 1:5
DS03



DETAIL A
SCALE 1:5
DS03



SECTION 1
SCALE 1:100

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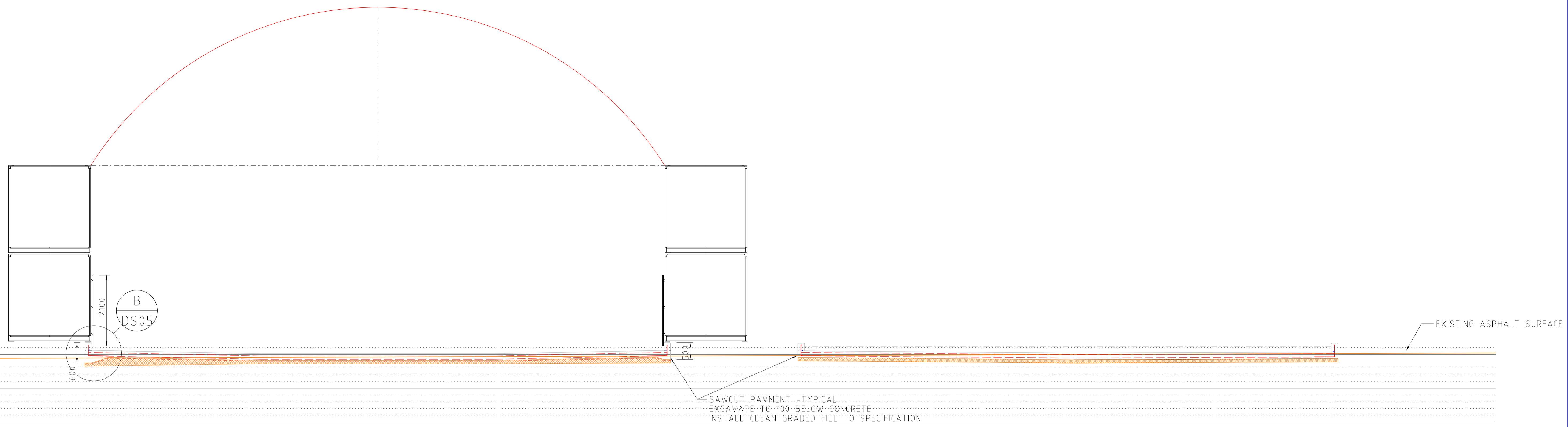
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LOT 471 KING BAY ROAD PORT AREA LA2
WASH PAD & DG STORE
CONCRETE DESIGN

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1 NOTE	25/12/25	5625 DGN	5625

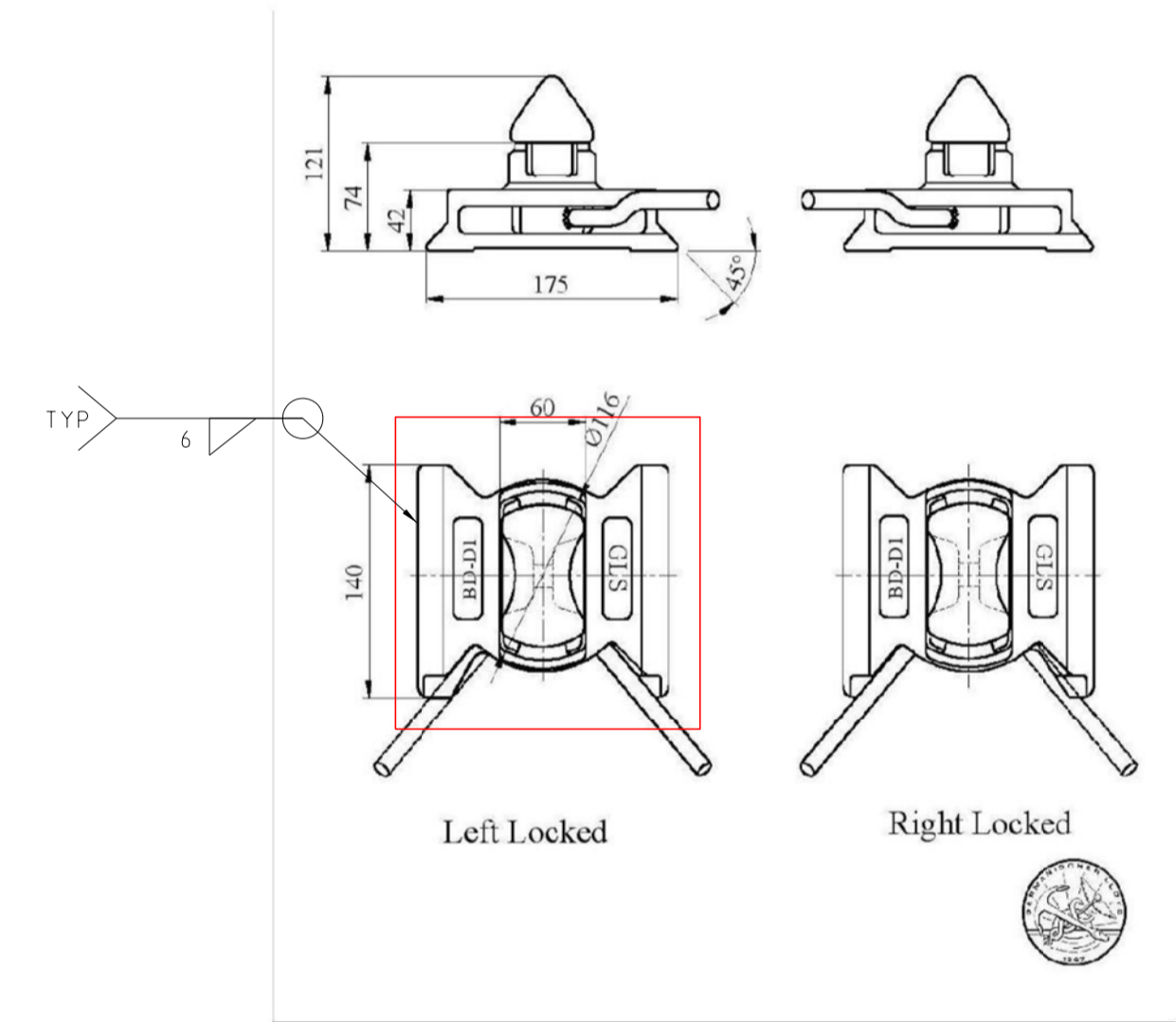
DRAWING
CONCRETE PLAN & SECTION

DRAWING No	REV
5625-DS-02	0



SECTION 2
SCALE 1:60
DS02

TWI-001 Dovetail Twist Lock(Weldable) Left Hand Locking
TWI-012 Dovetail Twist Lock(Weldable) Right Hand Locking



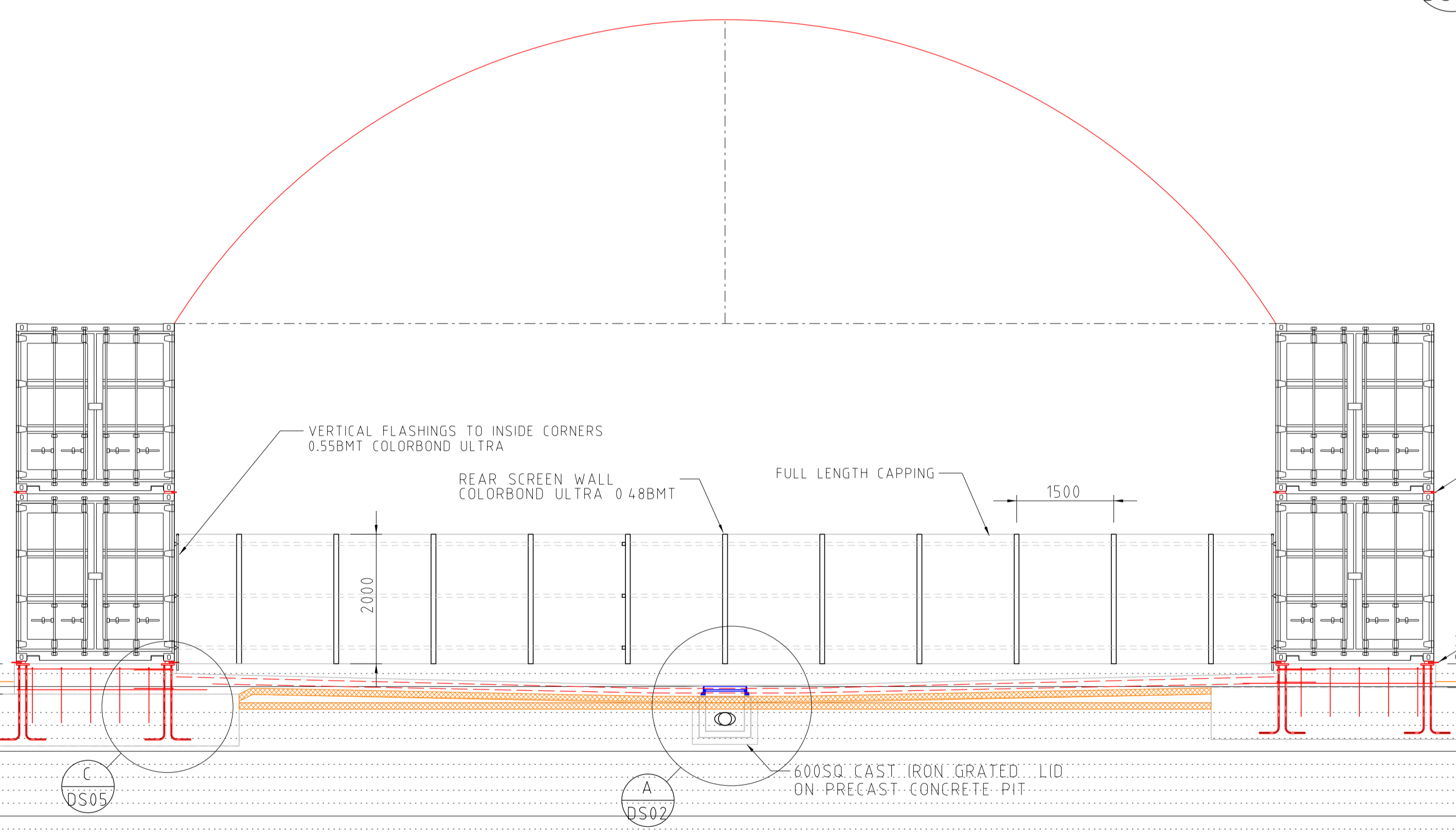
Material: Heat treatable steel
Finish: Hot dip galvanised
Weight: 5.8kg
M.B.L:Tension: 500KN
M.B.L:Shear: 420KN
M.B.L:Compression:2000KN



DOUBLE STACKING TWISTLOCK
 TWI-004 MANUAL LEFT LOCKING - 4 OFF
 TWI-014 MANUAL RIGHT LOCKING - 4 OFF



WELDED TO CAST-IN PLATES
 DOVETAIL TWIST LOCK
 TWI-001 LOCK LEFT - 4 OFF
 TWI-012 LOCK RIGHT - 4 OFF



SECTION 3
SCALE 1:60
DS02

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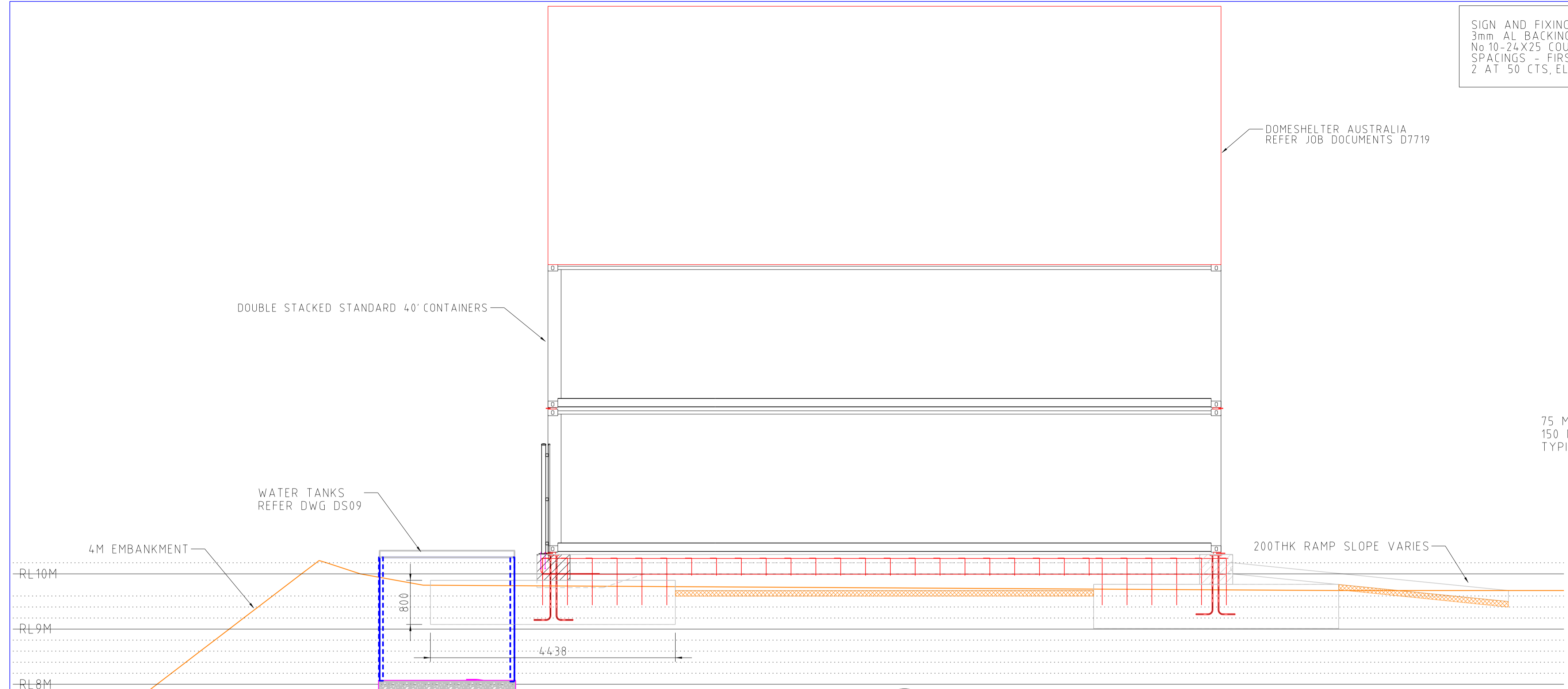
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LOT 471 KING BAY ROAD PORT AREA LA2
 WASH PAD & DG STORE
 CONCRETE DESIGN

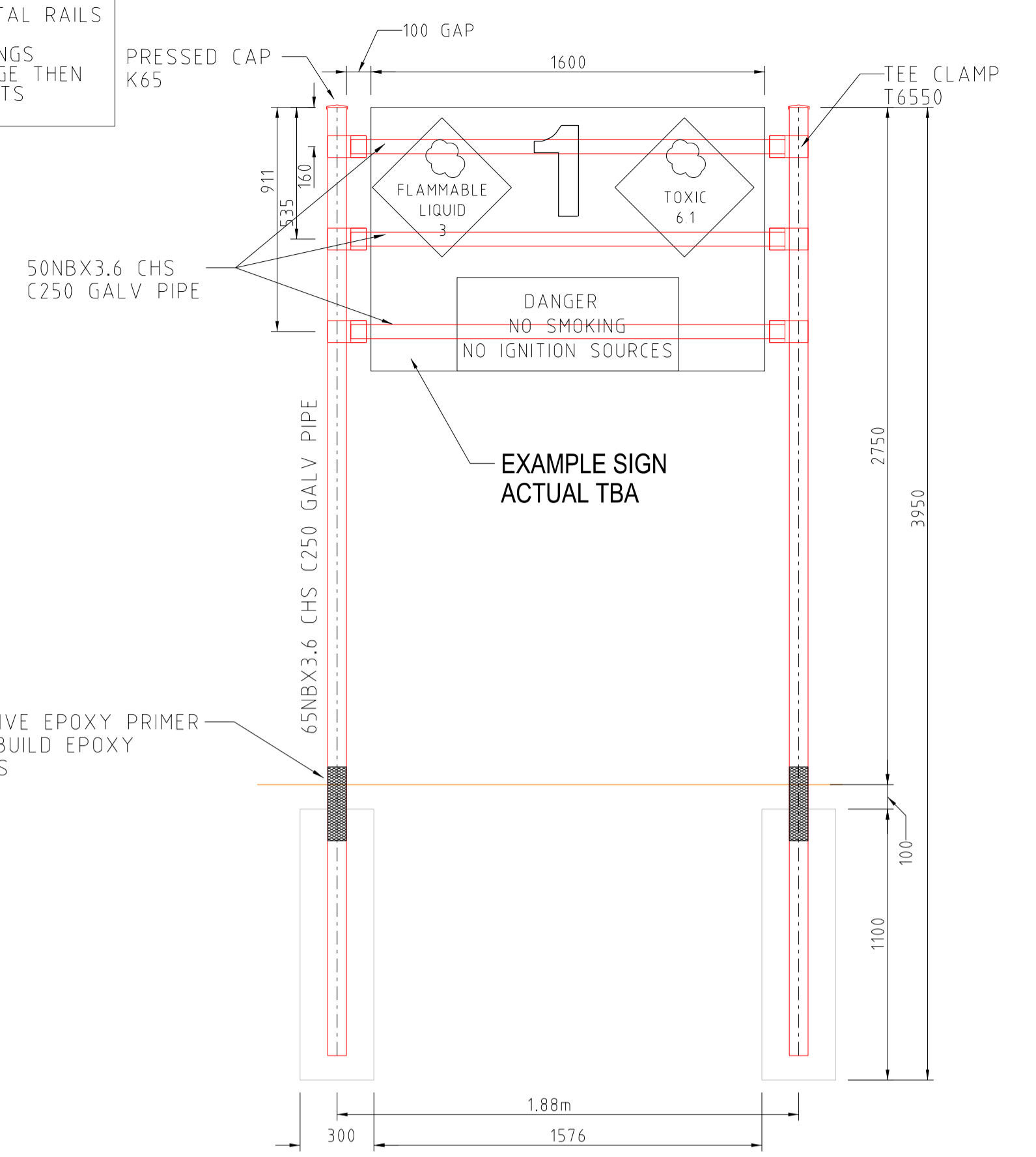
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1 NOTE	25/12/25	5625 DGN	5625	5625-DS-03	0

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DRAWING No	REV
5625-DS-03	0

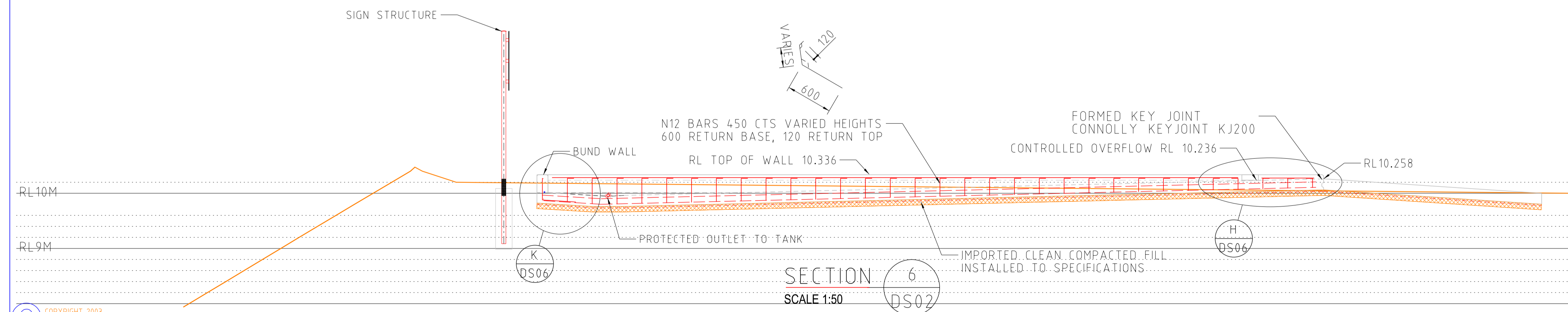
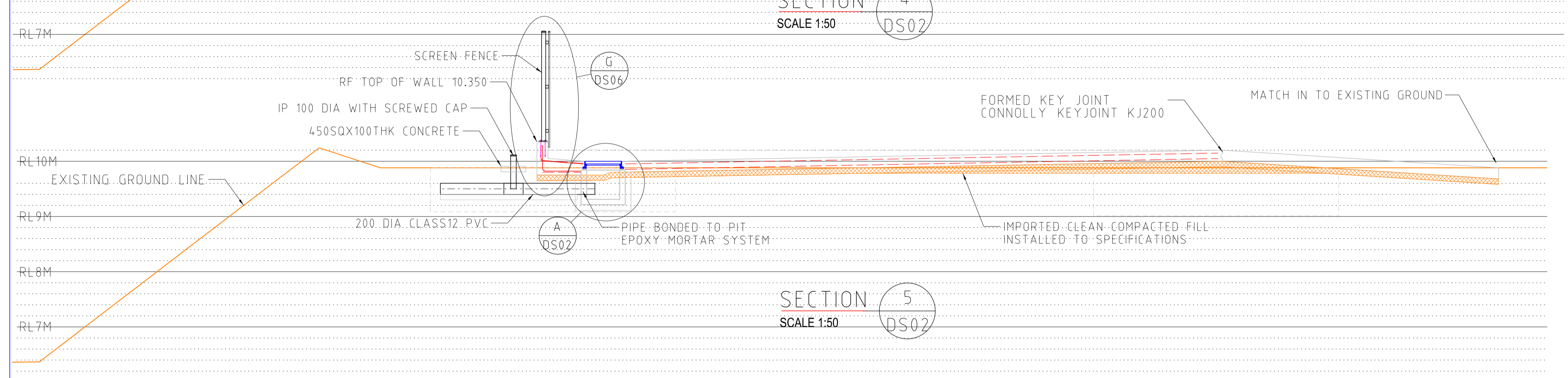


SIGN AND FIXINGS TO HORIZONTAL RAILS
 3mm AL BACKING PLATE
 No 10-24X25 COUNTERSUNK FIXINGS
 SPACINGS - FIRST 10 FROM EDGE THEN
 2 AT 50 CTS, ELSEWHERE 100 CTS



SIGN STRUCTURE
 SCALE 1:20

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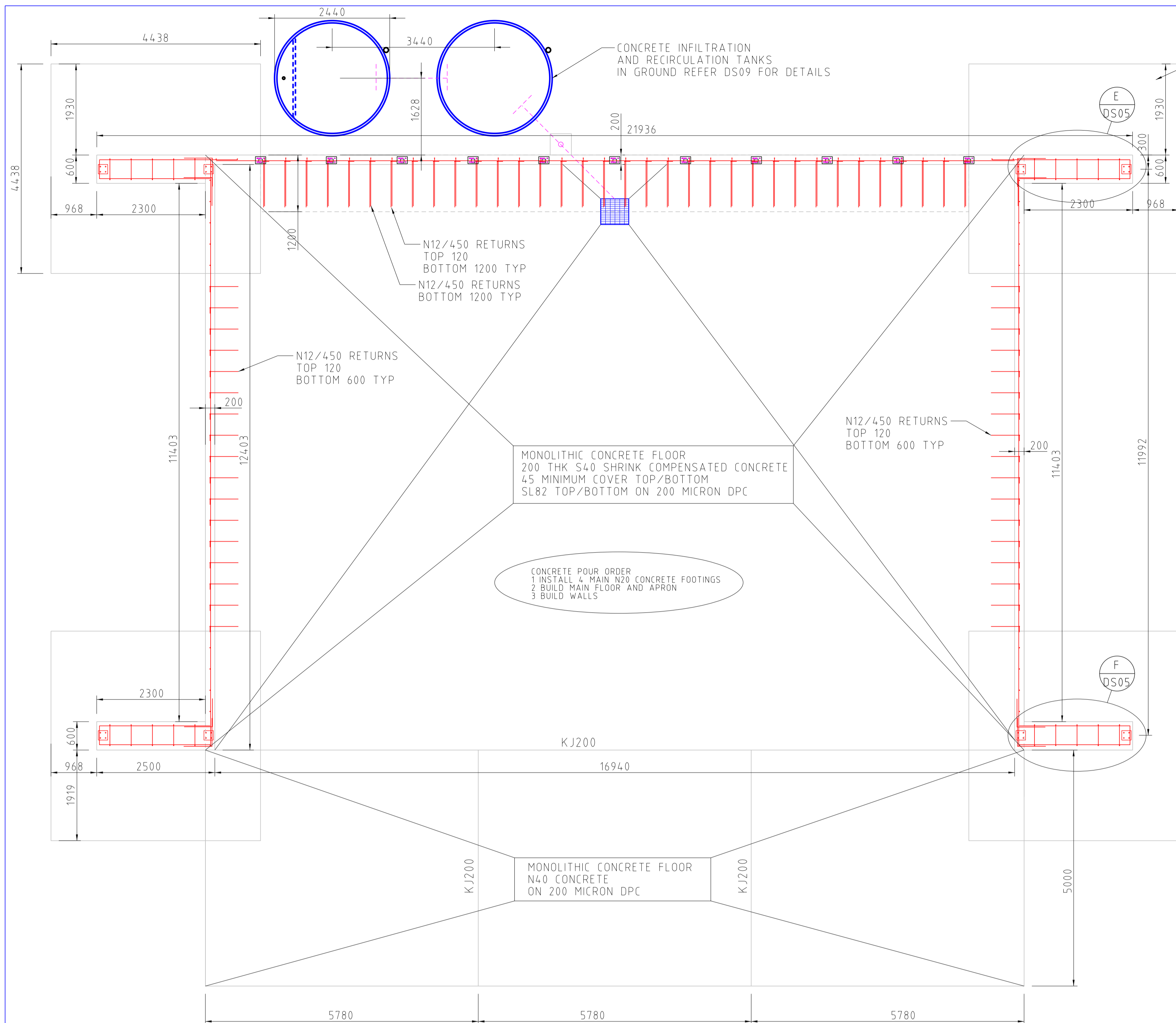


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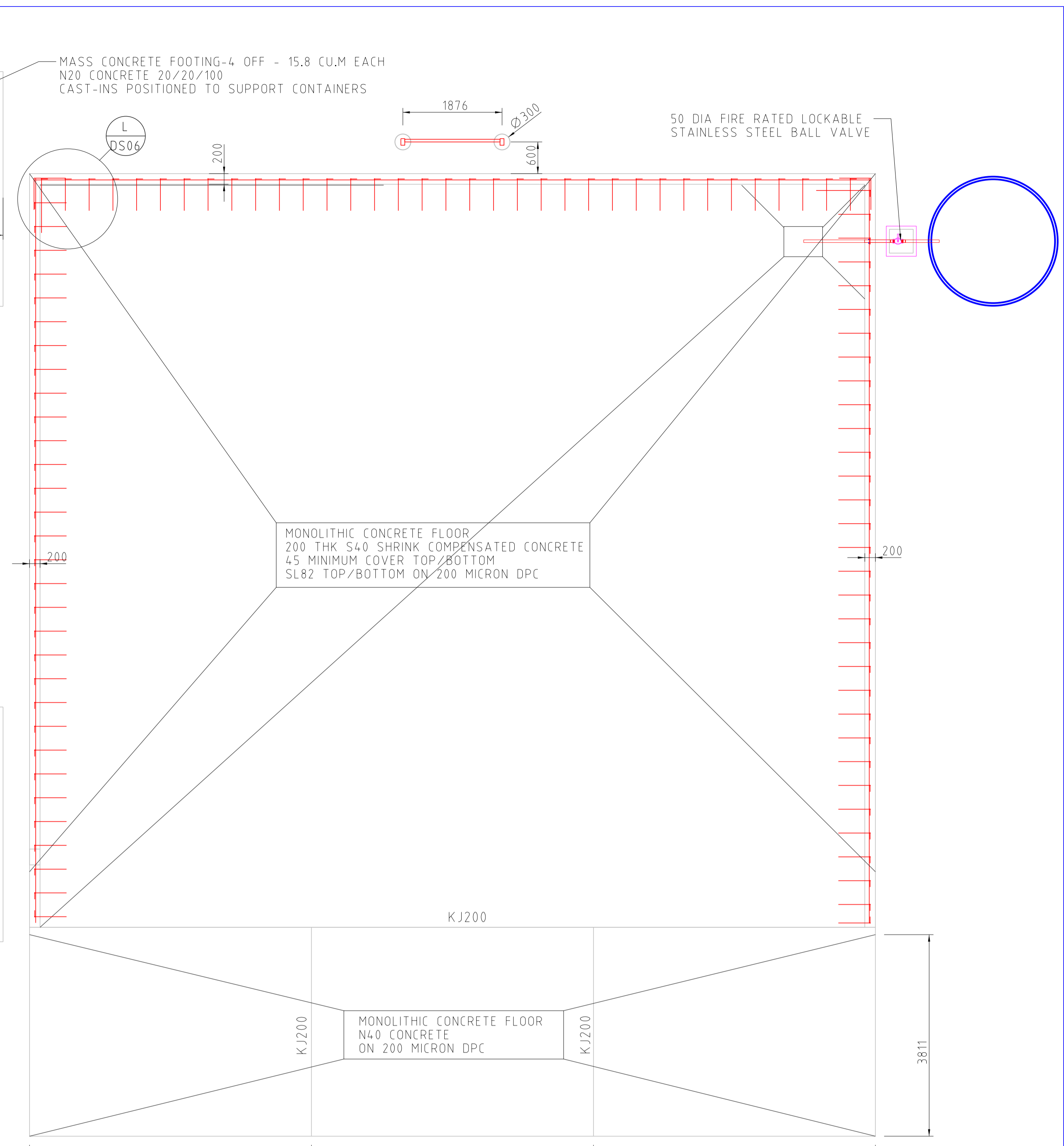


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LOT 471 KING BAY ROAD PORT AREA LA2 WASH PAD & DG STORE CONCRETE DESIGN		DRAWING SECTIONS & DETAILS	
SCALE 1 NOTE	PLOT DATE 25/12/25	CAD REF 5625 DGN	JOB No 5625
		DRAWING No 5625-DS-04	REV 0



WASHPAD
SCALE 1:50



DANGEROUS GOODS
SCALE 1:50

REFER DS02 FOR FINISHED SURFACE LEVELS
SPECIFICATION NOTES DS10

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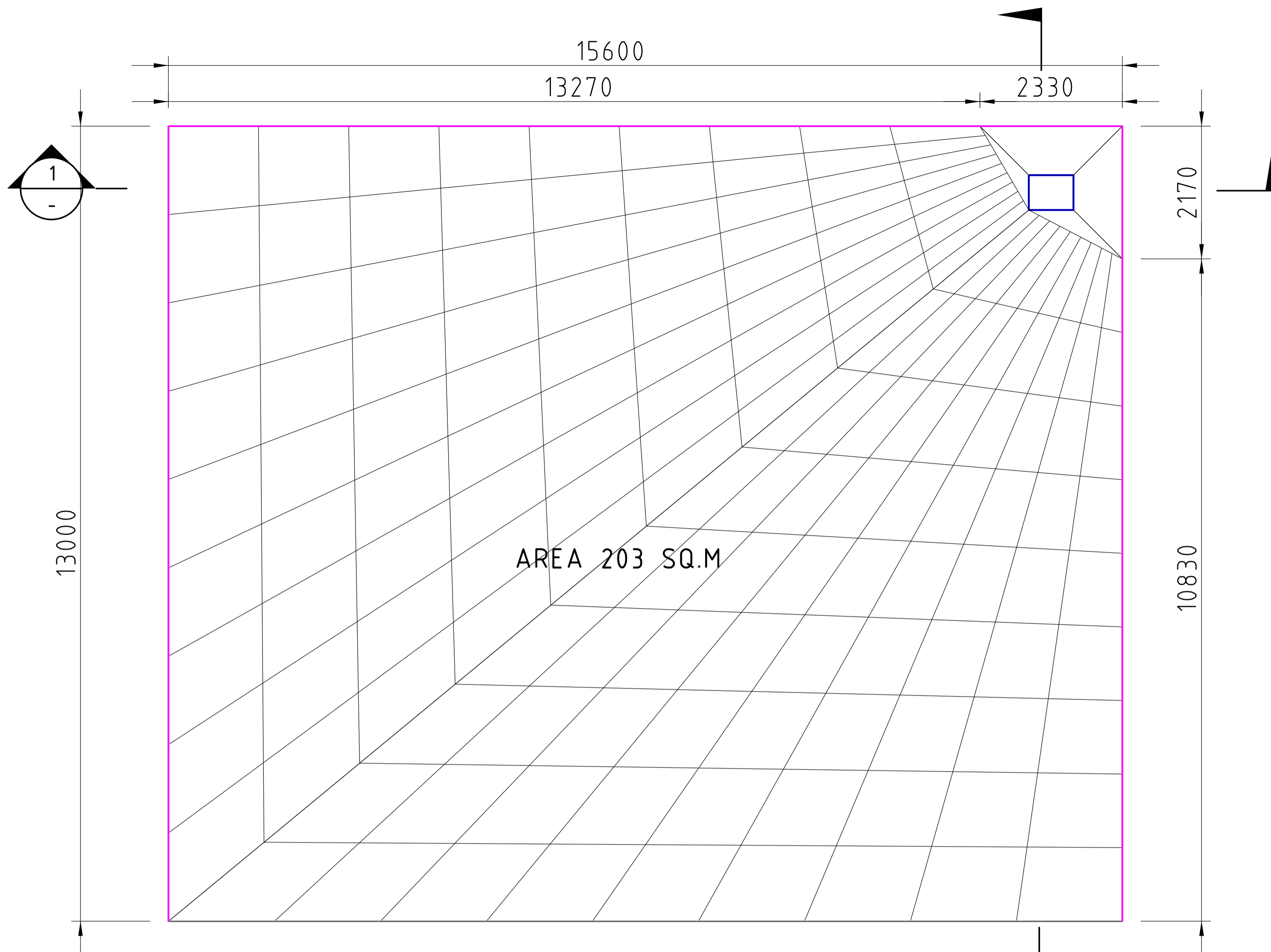


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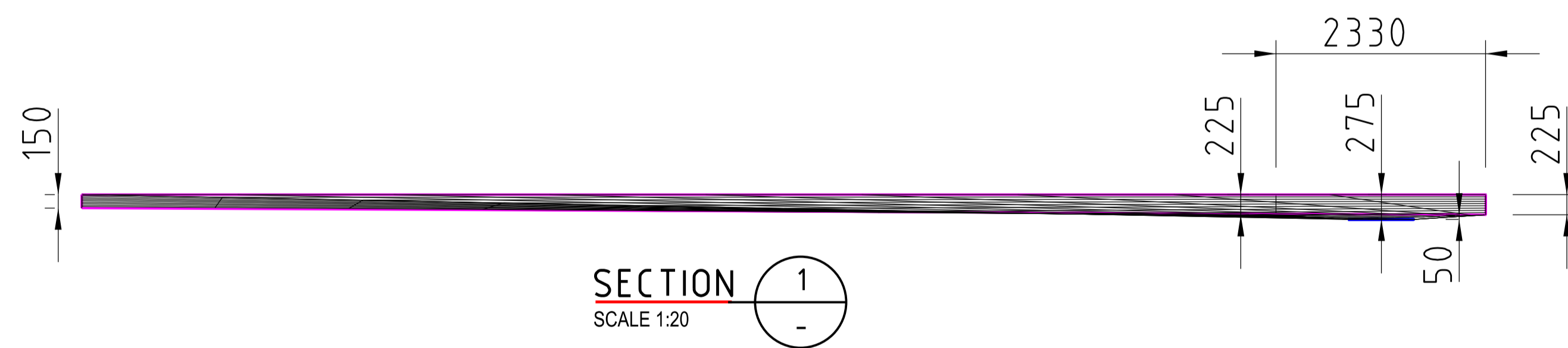
LOT 471 KING BAY ROAD PORT AREA LA2
WASH PAD & DG STORE
CONCRETE DESIGN

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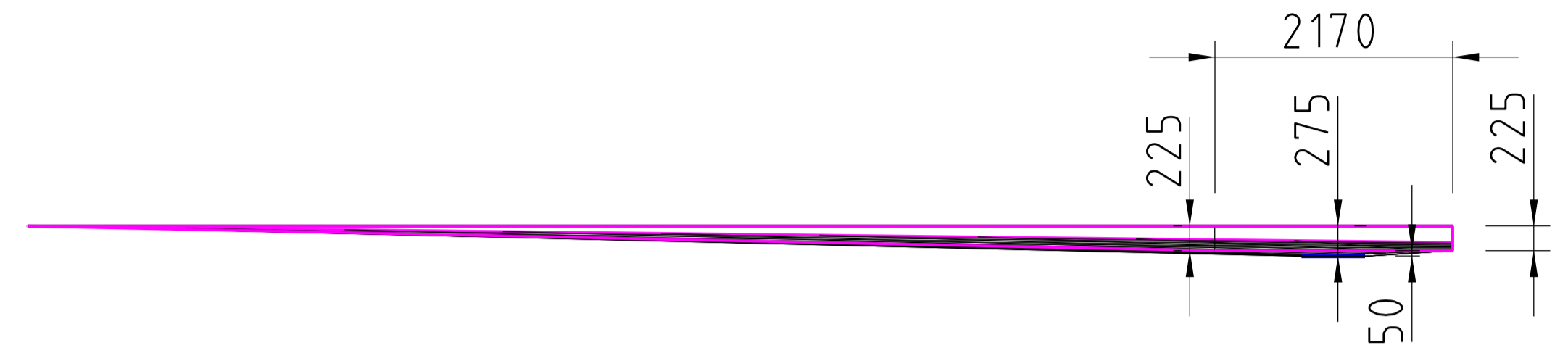
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CONCRETE PLAN



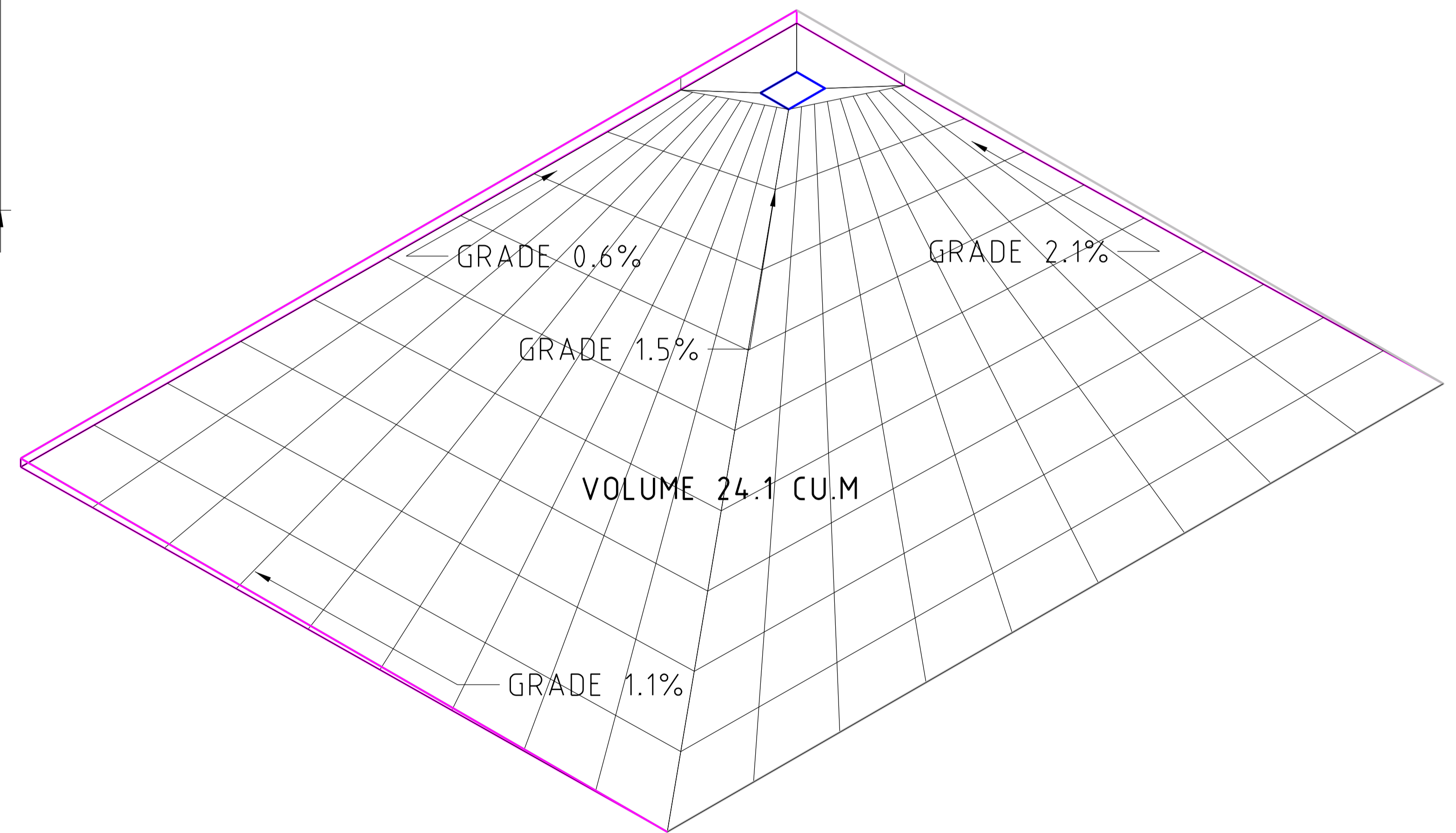
DG BUND MAXIMUM VOLUME PLAN
SCALE 1:20



SECTION 1
SCALE 1:20



SECTION 2
SCALE 1:20

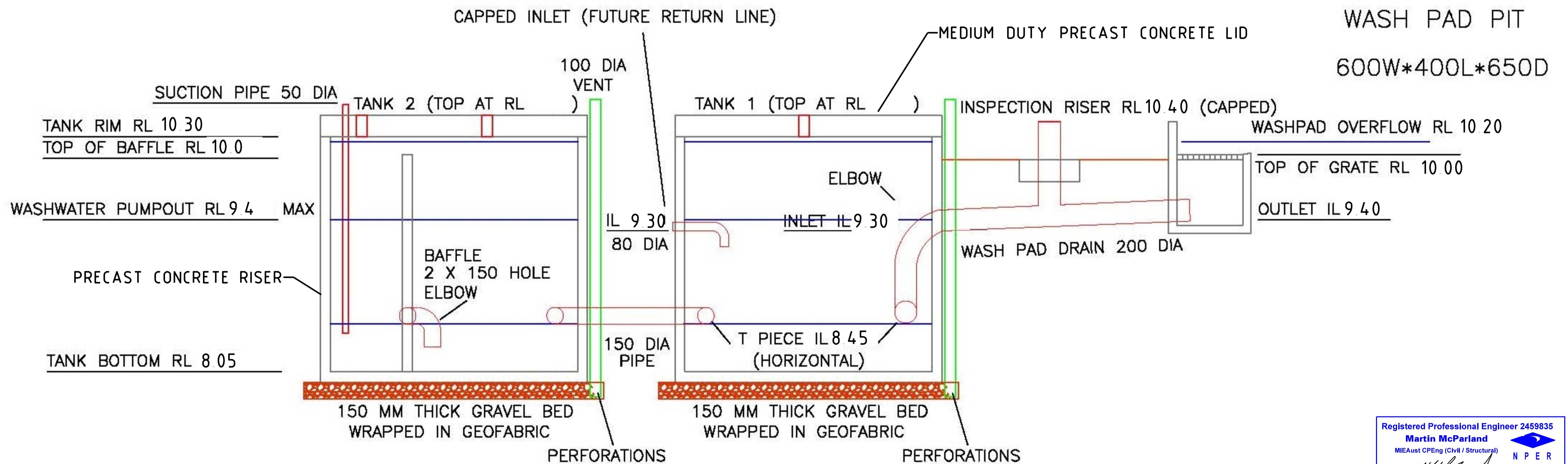


DG BUND MAXIMUM VOLUME ISOMETRIC
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AREA LA2 INGROUND TANKS (2)
 2,250 DIA * 2.250 HEIGHT

FIRST FLUSH CAPTURE, TOTAL CAPACITY ~ 6.0 M3
 TOTAL WASHWATER CAPACITY ~ 7.5 M3



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PUMP OUT PROCEDURE

- A) STOP WASHING AND PUMP OUT ANY TIME WATER LEVEL REACHES RL 9.4 I.E. WHEN WATER IS VISIBLE IN THE DRAINAGE PIT
- B) PUMP OUT UPON ANY CYCLONE ALERT
- C) PUMP OUT UPON ANY FORECAST OF HEAVY RAINFALL (10MM IN A SINGLE EVENT OR 20MM IN A 24HR PERIOD)

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LOT 471 KING BAY ROAD PORT AREA LA2
 WASH PAD & DG STORE
 WASHWATER SYSTEM

SCALE	PLOT DATE	CAD REF	JOB No	DRAWING No	REV
1 NOTE	20/12/25	5625 DGN	5625	5625-DS-09	0

DRAWING
 HYDRAULIC
 PLAN

SITE PREPARATION
 CLEAR EXISTING EQUIPMENT, VEGETATION AND ORGANIC MATTER FROM THE WORKS AREA

- 1.1 SAW CUT EDGE LINES IN EXISTING SEALED PAVEMENT
- 1.2 EXCAVATE 4 MAIN FOUNDATIONS - 20MPa UNREINFORCED CONCRETE WITH CAST-IN FOR EACH CORNER 40' CONTAINER FOOTPRINT
- 1.3 EXCAVATE FOR ALL IN GROUND TANKS - INSTALL GEO AND FILTER MATERIAL FOR WASHSLAB TANKS. DG TANK IS SEALED AND BEDDED ON 100 THICK FINES.
- 1.4 INSTALL UNDERGROUND TANKS
- 1.5 INSTALL 4 MASS CONCRETE FOOTINGS WITH CAST-INS IN PLACE
- 1.6 EXCAVATE BUND AREAS TO DESIGN SUBGRADE LEVELS, RIP TO DEPTH 100, MOISTURE CONDITION AND COMPACT TO 94% MMDD MAXIMUM MODIFIED DRY DENSITY AS PER TEST E2.1 OF AS1289
- 1.7 SITE SOIL CLASSIFICATION IS CONTROLLED FILL SITE
- 1.8 IMPORT CLEAN GRADED FILL MAX 12% FINES AND D50=50, CONDITION AND COMPACT FOR NOT LESS THAN 100mm COMPACTED THICKNESS UNDER GROUND SLAB FOOTPRINT AND EXTENDING TO EDGES BUND ACCESS RAMP - MATCH LINES ARE SAW CUT INTO EXISTING ASPHALT SURFACE. SIDES TO BE THICKENED AND TO BE NOT LESS 100MM BELOW NATURAL SEALED GROUND.
- 1.9 INSTALL TANKS, SUMPS AND DRAINAGE INFRASTRUCTURE TO LINES AND LEVELS SHOWN ON DRAWINGS
- 1.10 ALL PIPES TO BE BEDDED IN 100MM SAND ALONG FULL EXTENT
- 1.11 ALL CONNECTIONS TO BE FULLY SEALED CONTINUOUS TO SUMPS AND TANKS. USE EPOXY BASED MORTAR FOR ALL CONNECTIONS.
- 1.12 STORAGE PITS TO HAVE MEDIUM CLASS LIDS SECURED FOR CYCLONE CONDITIONS - CLOSED AND SEALED. LIDS ARE ABOVE GROUND LEVEL AND ARE NOT TRAFFICABLE.
- 1.13 SUMP IN DG PIT TO BE CHEMICAL RESISTANT; SUMP IN WASH BUND MAY BE CEMENT BASED TYPE.
- 1.14 WASH PLANT MAY HAVE COLD JOINTS WHERE SPECIFIED - IT DOES NOT NEED TO BE CHEMICAL RESISTANT OR WATER PROOF
- 1.15 DANGEROUS GOODS BUND MUST BE WATER TIGHT. ALL COLD JOINTS TO BE BRIDGED WITH WATER STOPS AND EXPANDING SEALS WEHRE SPECIFIED.
- 1.16 PVC CLASS 12 PIPES WITH JOINTS SOLVENT WELDED.

CONCRETE WORKS
 2.0 CONCRETE WORKS SHALL COMPLY WITH THE SPECIFICATIONS WITHIN THIS DRAWING SET

- 2.1 CONCRETE SHALL BE:
 MAIN DOME SHELTER SUPPORT PADS - N20MPa
 CONTAINER PEDESTAL AND BUNDS TO BE S40 - SPECIAL SHRINK COMPENSATED CONCRETE
 EXTERNAL CONCRETE FLOOR/WALLS 40 MPa
 TO BE PRODUCED AND LAID IN ACCORDANCE WITH AS3600, AS2758 & AS1379

2.2 FOR EXPOSURE CLASSIFICATION B2 MINIMUM COVER TO REINFORCEMENT SHALL BE: EXTERNAL 45mm

- 2.3 FORMWORK SHALL COMPLY WITH THE REQUIREMENTS AS3610 CLASS 3
 2.4 ALL CONCRETE SHALL BE CURED WITH:
 CLEAN SURFACE WATER FOR NOT LESS THAN 7 DAYS OR
 MEMBRANES CONFORMING TO AS3799 AND APPLIED STRICTLY TO MANUFACTURERS SPECIFICATIONS

2.5 ALL CONCRETE SHALL BE THOROUGHLY COMPACTED USING MECHANICAL HIGH FREQUENCY VIBRATORS.

2.6 ALL GROUND SLABS TO BE ON 200 MICRON DAMP PROOF COURSE

2.7 FOR DG SLAB INSTALL SHRINKAGE CONTROL JOINTS USING CAST-IN PVC WATERSTOP BETWEEN EVERY 10M LENGTH

- 2.8 FORM 20X20 CHAMFERS TO ALL EXPOSED CONCRETE EDGES
 2.9 SPECIAL PRECAUTIONS ARE REQUIRED FOR POUR PLAN TO MITIGATE PLASTIC SHRINKAGE FROM HOT DRY WINDS AMBIENT TEMPERATURE MUST BE LESS 32°C

2.10 WATERSTOP
 FLOOR/WALL COLD JOINTS - INSTALL ADCOR 500S 25MM WIDE X 20MM THICK
 WALL/WALL USE CAST-IN PVC WATERSTOP
 ALL WATER PROOFING MATERIALS TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS

2.11 PIT EXTENDS THROUGH BUND FLOOR - INSTALL WITH FULL PERIMETER WRAP ADCOR 500S

- 2.12 TOLERANCES
 LEVELS TO BE IN ACCORDANCE WITH DRAWINGS
 HORIZONTAL POSITION +/- 50MM
 VERTICAL POSITION - FLOOR +/-20
 TOP BUND WALL +/-5

3.0 SURFACE FINISHES
 DANGEROUS GOODS BUND AREA - CONCRETE TO BE FINIHSED WITH STEEL TROWEL
 ENTRY RAMPS FOR BOTH WASH PAD AND DG AREA TO BE BROOME FINISHED
 WASH PAD FLOOR - BROOME SURFACE FINISH

STRUCTURAL STEEL NOTES

- 1 ALL WORKMANSHIP & MATERIALS TO BE IN ACCORDANCE WITH AS 4100 STEEL STRUCTURES CODE
- 2 STEEL SHALL HAVE THE FOLLOWING MINIMUM VALUES OF YIELD STRESS (fy) UNLESS SHOWN OTHERWISE
 ROLLED STEELWORK AS3679.1 GRADE 300 PLUS
 FENCE RAILS G350 DURAGAL - ALL ENDS SEALED
 RHS & SHS AS1163 STRUCTURAL HOLLOW SECTIONS GRADE G350
- 3 ALL WELDING SHALL BE 6mm STRUCTURAL PURPOSE (SP) FILLET WELDS OR FULL PENETRATION BUTT WELDS IN ACCORDANCE WITH AS 1554.1
- 4 100% VISUAL INSPECTION FOR WELDS
- 5 ALL SITE WELDS SHALL BE TOUCHED UP WITH 1 COAT OF ZINC RICH PAINT AND 2 COATS OF GALMET DURAGAL SILVER PAINT
- 6 ALL CAST-INS, BOLTS, FENCE POSTS AND DRAINAGE GRATES/FRAMES HOT DIP GALVANIZED TO AS4680
- 7 REINFORCING BARS - N GRADE
- 7.1 WELDED MESH GRADE D500L TO AS4671
- 8 SIGN BACKING SHEET 3MM ALUMINIUM PLATE TO BE INSTALLED WITH FIXINGS SPACED AT CTS SHOWN ON DRAWING
- 9 FIXINGS CLASS 4 No 10-24 X 25 COUNTERSUNK HEAD OR EQUIVALENT



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REFERENCE DRAWINGS

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LOT 471 KING BAY ROAD PORT AREA LA2
 WASH PAD & DG STORE
 CONCRETE DESIGN

SCALE	PLOT DATE	CAD REF	JOB No
1 NOTE	25/12/25	5625 DGN	5625

DRAWING	
NOTES & SPECIFICATIONS	
DRAWING No	REV
5625-DS-10	0

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