

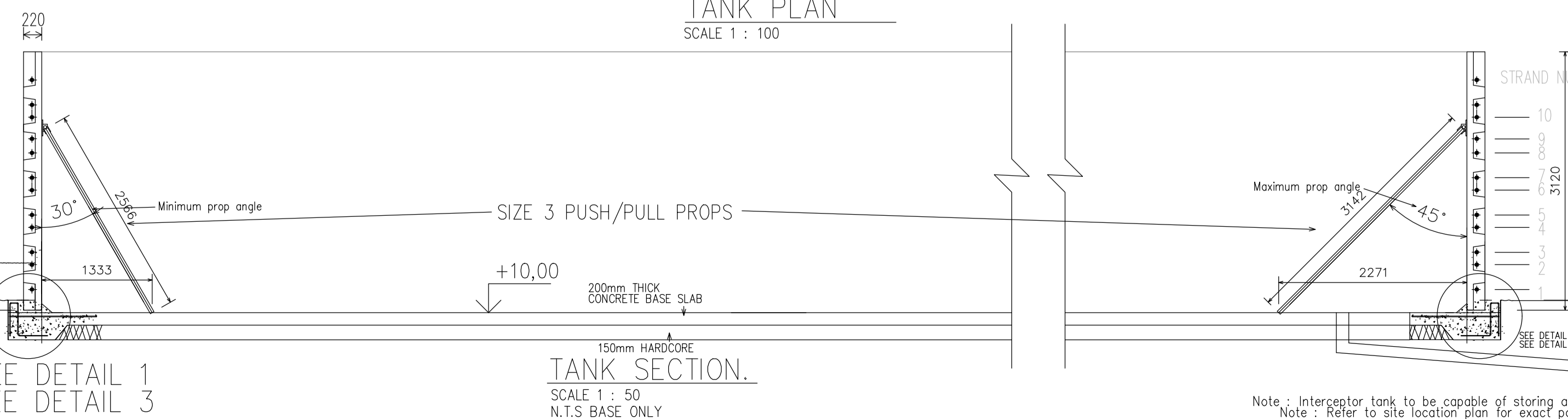
TANK ELEVATION.
SCALE 1 : 100

TANK TO BE COVERED WITH A FLOATING COVER TO ENSURE COMPLIANCE WITH THE NUTRIENT ACTION PROGRAMME REGULATIONS (NORTHERN IRELAND) 2016, SCHEDULE 6, REGULATION 19(1)

EFFECTIVE CAPACITY (m ³)	MAX. TANK VOLUME (m ³)	NO. OF PANELS (PC)	INTERNAL DIAMETER AVG. (m)
3100	3300	50	37.457

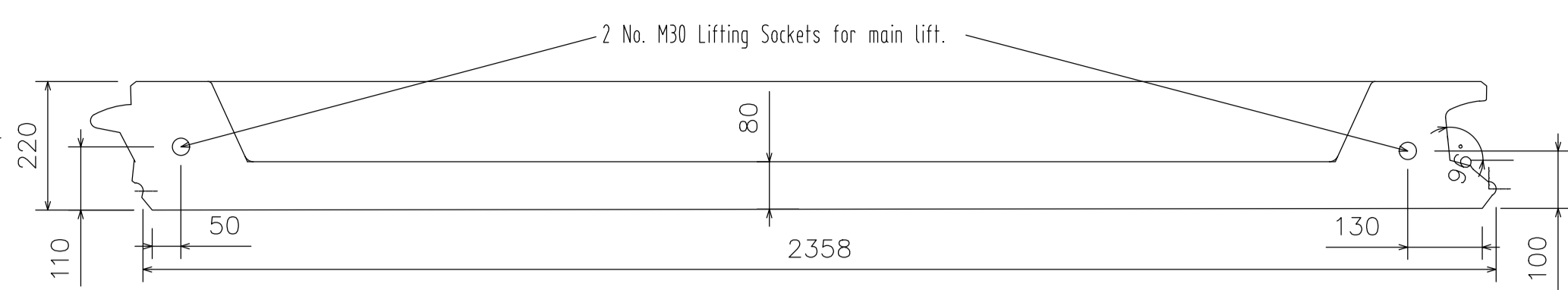
OUTLET POSITION TO BE DETERMINED ON SITE. (POSITIONED CONVENIENT TO GATE VALVES & INTERCEPTOR TANK).

TANK PLAN
SCALE 1 : 100

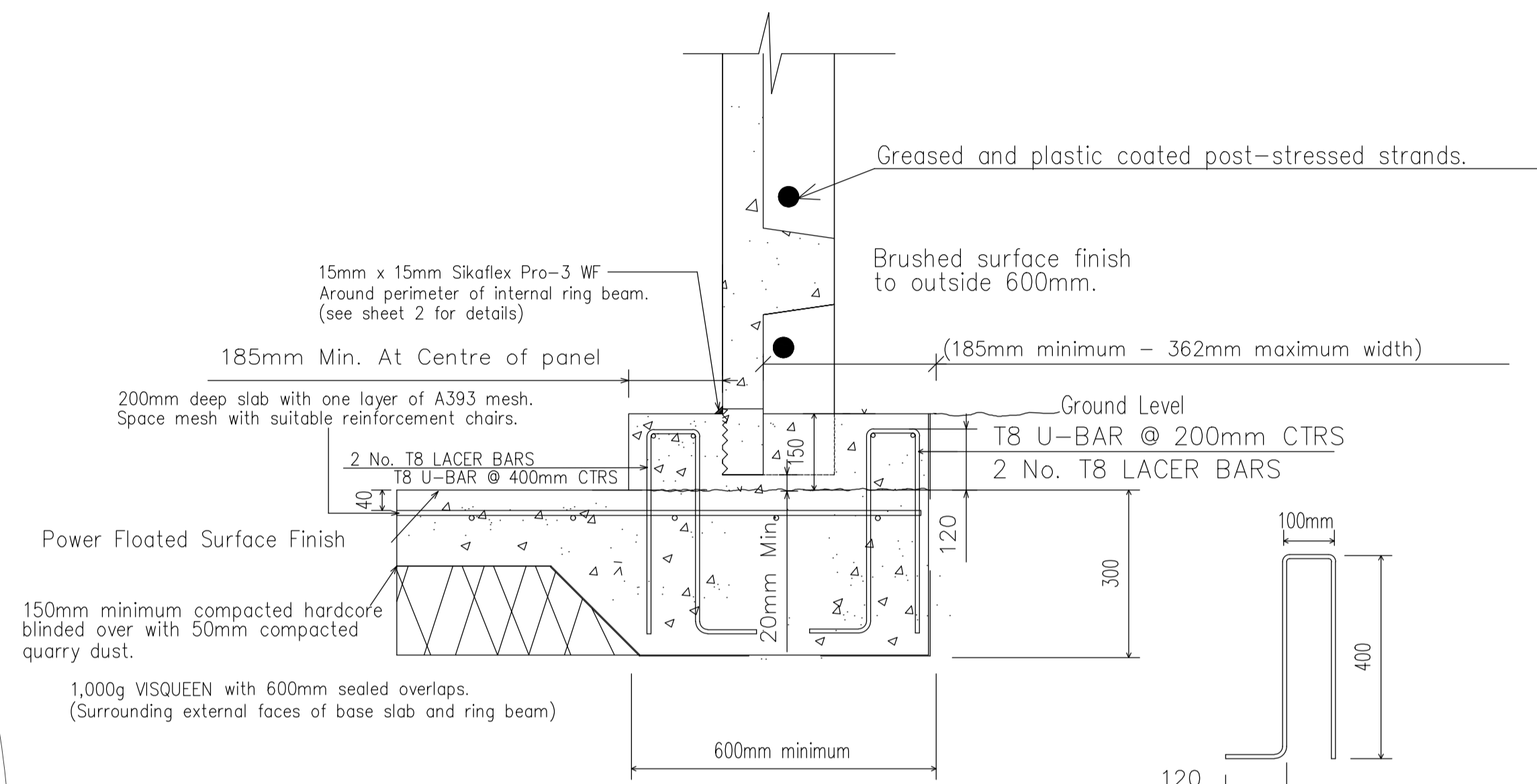


TANK SECTION.
SCALE 1 : 50
N.T.S. BASE ONLY

Note : Interceptor tank to be capable of storing a min. of seven days slurry. (14 days storage recommended).
Note : Refer to site location plan for exact positioning of gate valves and interceptor tanks.



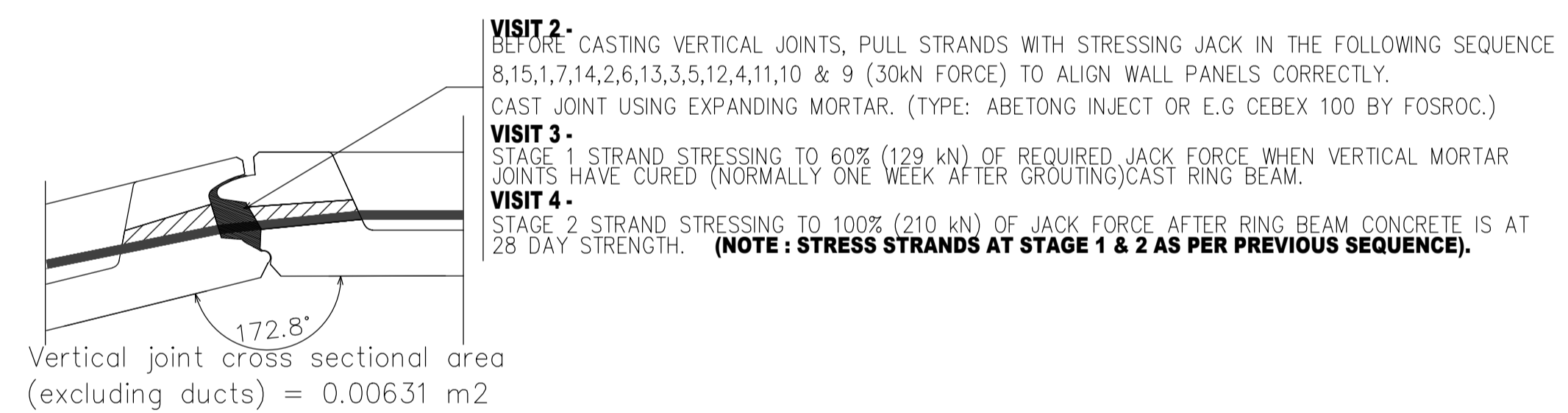
PLAN ON TYPICAL 3.0 m HIGH WALL PANEL (6 DEGREES)
SCALE 1 : 10



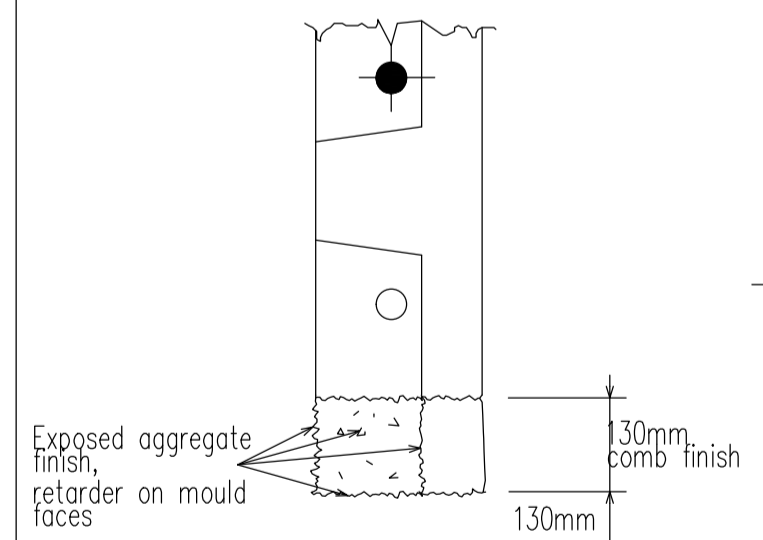
DETAIL 1
SCALE 1 : 10



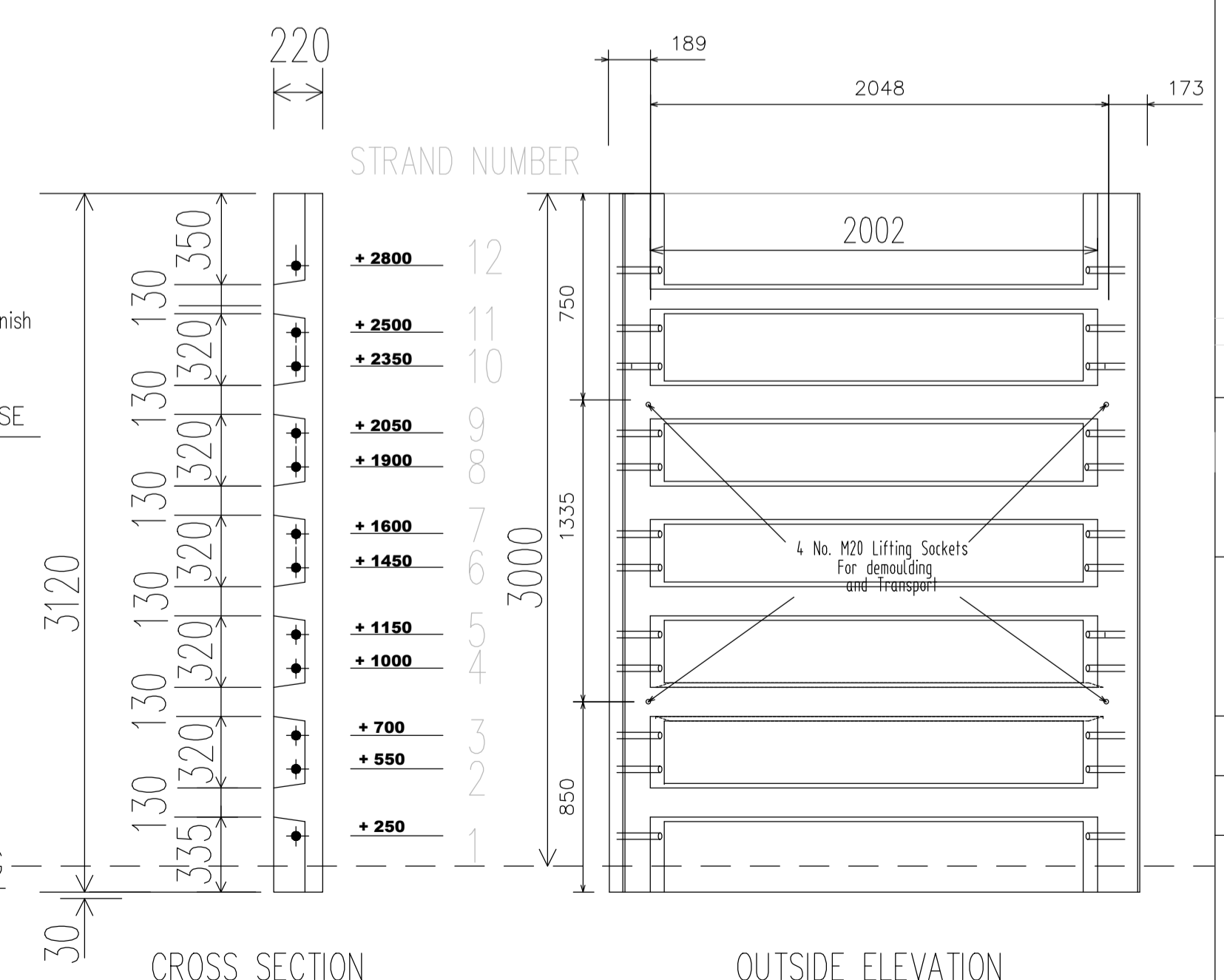
STIRRUP DETAIL
SCALE 1 : 10



DETAIL 2.
SCALE 1 : 10



DETAIL 3. FINISH TO BASE
SCALE 1 : 10



3.0m HIGH WALL PANELS.
SCALE 1 : 25

- CONCRETE SPECIFICATION - PRECAST WALL PANELS - C50/20
INSITU CONCRETE - C35A (WCR < 0.55)
(MINIMUM CEMENT CONTENT TO BE 325kg/m³)
 - FINISH TO P.C. WALLS - FORMED SURFACES - STEEL FLOATED WITH ROLLER FINISH
UNFORMED SURFACES - AS CAST.
 - REINFORCEMENT - GRADE 460 TYPE 2 TO BS 8666:2000
Cover = 30mm + 10mm placing tolerance = 40mm minimum cover.
- Panel exposure class: Outside: XC4+XS1, Inside: XC4+XC2
Durability class: L50
Maximum liquid height: 2,85 m (300mm Freeboard)
Backfilling: 1m. Maximum
- Location Note: Slurry tank shall not be constructed -
under or nearer than 10m to an overhead powerline,
less than 50m from any waterbody. (New farmyards)
less than 10m from any waterbody. (Existing farmyards)
less than 60m from any public or domestic water supply source.

Work order:
(Visit 1) Form base slab.
(Visit 2) Assemble panels and prop, pull all strands to 30 kN force to align tank, and grout all vertical joints and strand ducts.
(Visit 3) Remove props, tension strands to 129 kN jack force (stage 1) and then cast base ring beam. (Day 7 at C>28 N/mm²).
(Visit 4) Tension strands to 210 kN jack force (stage 2) & fix anti-climbing device if required. (Concrete at C>50 N/mm²)

VISIT 1 - Base slab:
Base width: 38,310m.
After excavation to min. 150mm / solid stratum, a geotechnical engineers inspection is required to determine the suitability of standard base details through digging a trial pit outside the tank diameter at least 2m below base slab and determining ground water level, bedrock depth and soil types.
Concrete floor depth 150mm nominal, thickened to 300mm under panels, refer to detail 1.
Keep slab damp from 3 hours after casting for a minimum of 3 days (use water sprinklers)

VISIT 2 - Assembly and propping instructions:
Prop every panel using size 3 props until it is possible to remove every other prop leaving only alternate panels propped (first and 2nd last panels always to have 2no. props).
(Unpropped alternate panels are held in position by the interlocking profiled edges of each adjacent propped panel.)
Length of props = 1.21 - 3.93m, 2/3 of height/cos 30
Cast-in temporary prop socket on inside wall face: M20
Bolt in slab: Expander H.L.T.I. HUS-H 17,5x115 or equivalent.
Note : Should there still be any inaccuracy in the final panel fit, a suitable number of panels will be repositioned to bring the final panel placement within acceptable installation tolerances.

Pull strands:
Strand length: 127m. (15no. required)
Refer to detail 2 for visit 2 procedures.
Ensure all strand duct openings have a plastic plug inserted before grouting.

Vertical Joint Grouting:
Use abetong inject or similar expanding mortar e.g. Cebex 100 by Fosroc.

VISIT 3 - Remove props before stressing stage 1.
Stage 1 post tensioning to 129kN jack force. (refer to detail 2 for visit 3 procedures).
Cast ring beam:
Refer to detail 1.
Spray curing membrane on ring beam surfaces.

VISIT 4 - Post-tensioning:
Order of post-tensioning strands (All stages)
8,15,1,7,14,2,6,13,3,5,12,4,11,10 & 9 (See tank section for strand number).

TYPE OF STRAND	NOMINAL DIA.	POST TENSION JACK FORCE	FINAL ELONGATION
COMPACT.	15.2	129 kN - Stage 1 210 kN - Stage 2	N/A 126mm ***

***Refer to installers measured extensions record sheet.
The strand extension achieved onsite must be recorded by the site installers only at stage 2 for each strand.
Note : Individual measured elongation of every strand to be within +/- 10% of calculated elongation. (113mm - 133mm)
Average measured elongation of all strands to be within +/- 5% of calculated elongation. (120mm - 132mm)
(Total calculated strand elongation = 415mm).
Final elongation measured from 140 kN force held on jack at stage 2 stressing to 210kN force.
Post tension anchor: Dywidag ME coupler.
(floating anchorage block)

This drawing is to be read in conjunction with dwg. C/AG/5R.

Drawing No: PAC 1

DATE	DESCRIPTION	REV	SIGN



Box 24 351 03 V*XI* Tel 0470-965 00 Fax 0470-160 81

ORDER NR	SHEET SIZE	DRAWN BY	CHECKED BY
MACRETE IRELAND LTD.	A1	C.LAW	

DATE	PROJECT NO.

**3.0M HIGH ACOTANK
50 PANEL ASSEMBLY
for Mr DODDS
land west of 4 SHORE ROAD
Carrowclare**

SCALE	DWG NO.	REV
AS NOTED	C/AG/5M/50P	F