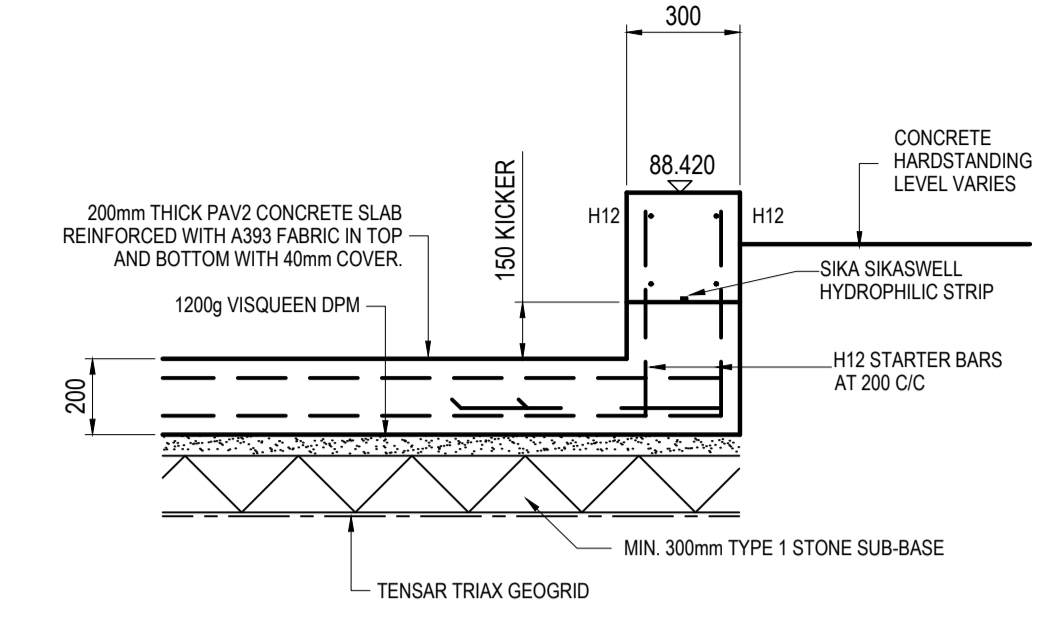
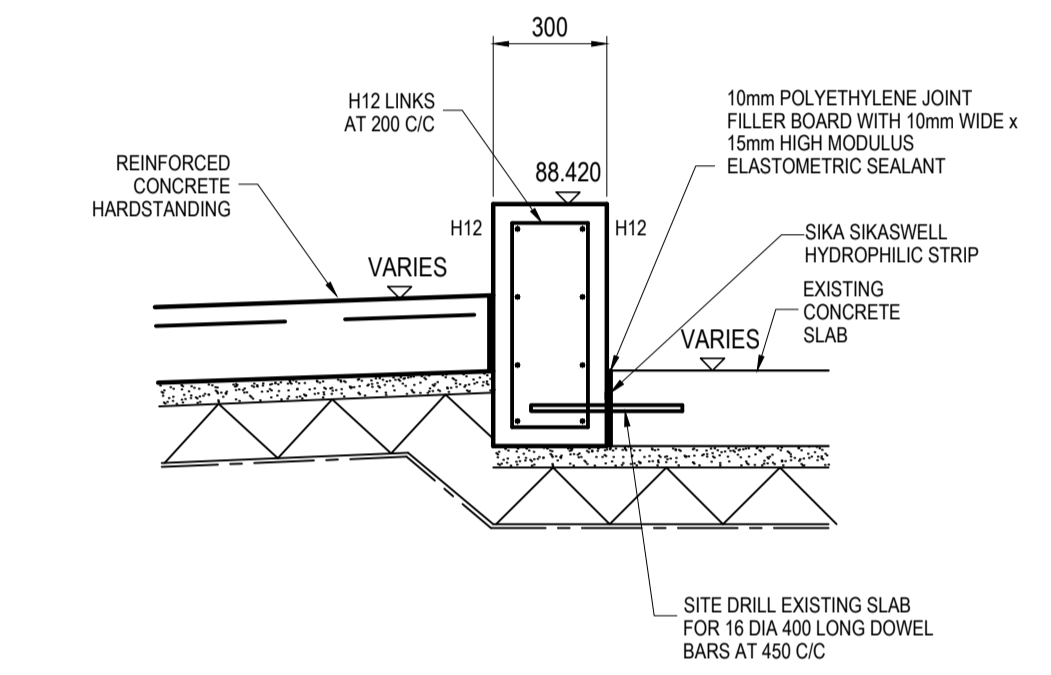


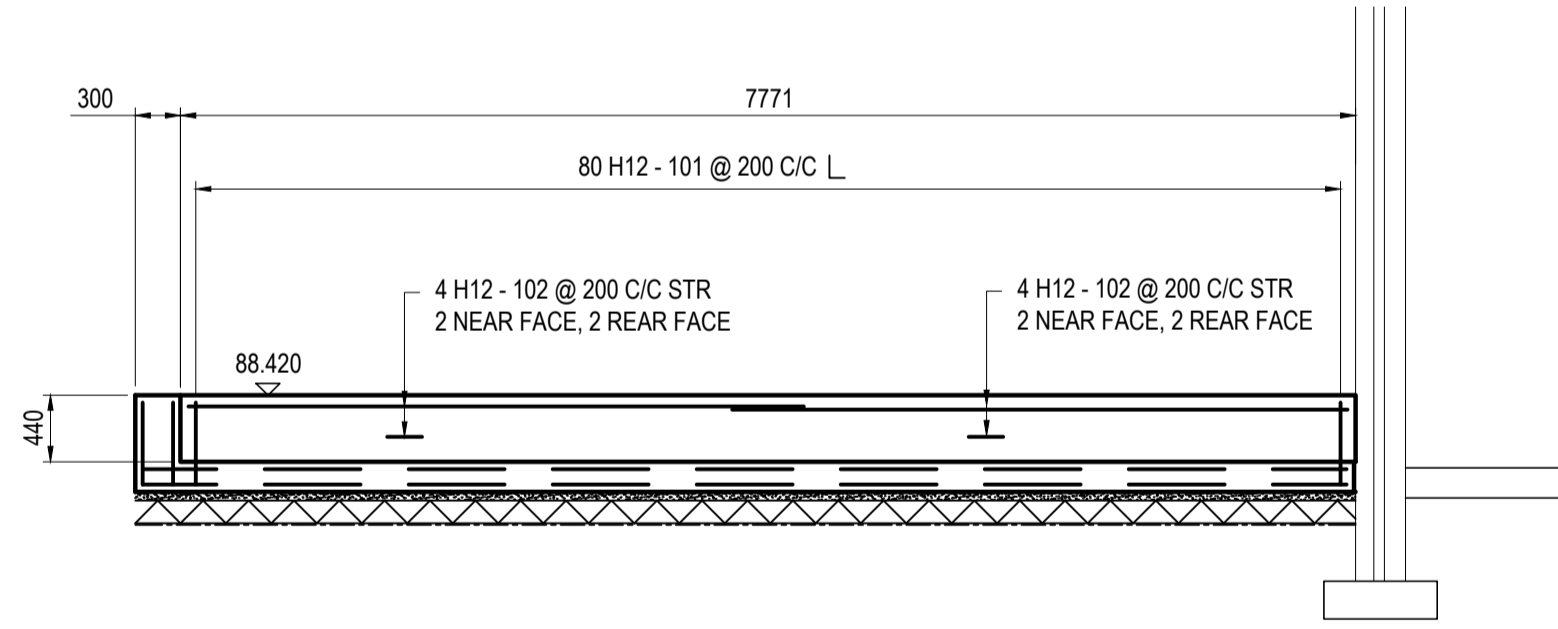
PLAN ON BUNDED AREA TO TANKS



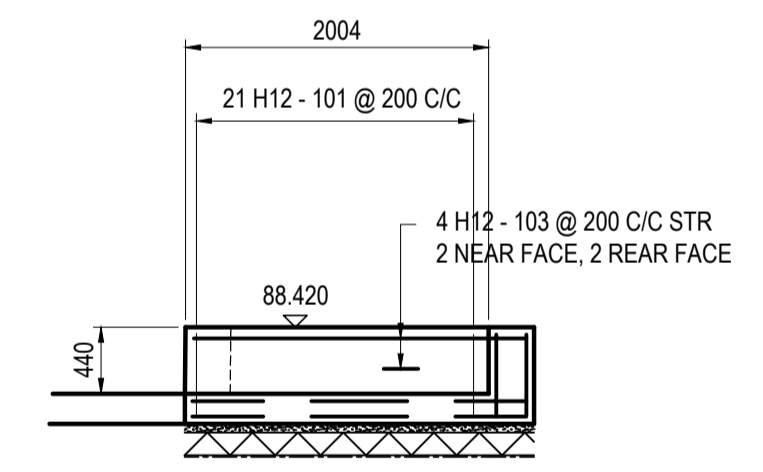
TYPICAL SECTION THROUGH WALLS A & B



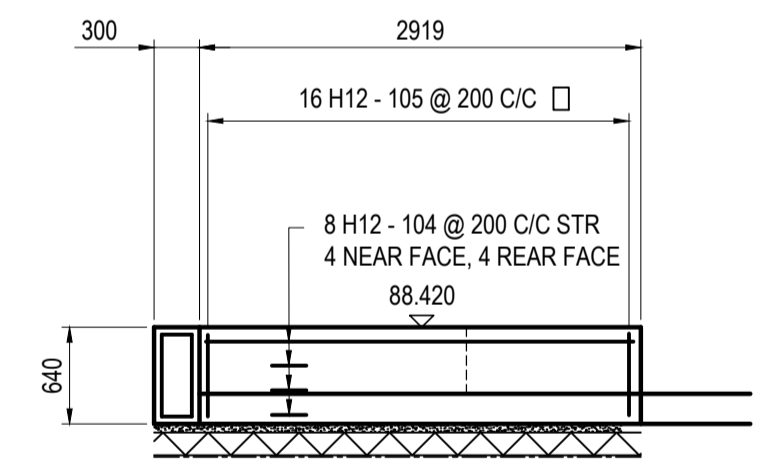
TYPICAL SECTION THROUGH WALLS C & D



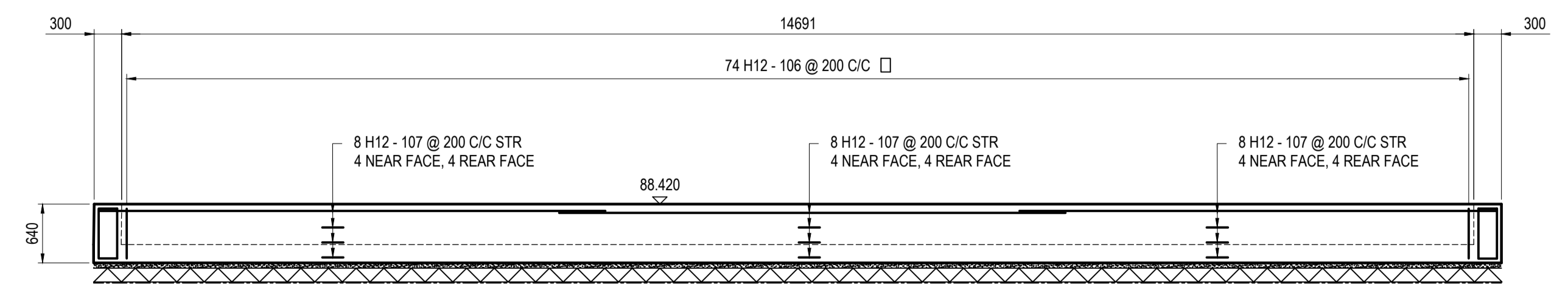
ELEVATION ON WALL A



ELEVATION ON WALL B



ELEVATION ON WALL C



ELEVATION ON WALL D

GENERAL NOTES

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT SLEATER & WATSON LLP DRAWINGS AND SPECIFICATIONS ALONG WITH ALL ARCHITECTURAL AND MECHANICAL & ELECTRICAL ENGINEERING CONTRACT DOCUMENTS.
- ALL DIMENSIONS ARE IN MILLIMETRES, UNLESS NOTED OTHERWISE. DIMENSIONS MUST NOT BE SCALED. USE ANNOTATED DIMENSIONS ONLY.
- ALL LEVELS ARE SHOWN IN METRES AND RELATE TO ORDNANCE DATUM.
- PLAN AREA OF SITE IS TO BE STRIPPED OF ALL VEGETABLE, ORGANIC, FOREIGN AND DELETERIOUS MATTER. REFER TO GROUND INVESTIGATION REPORT FOR AVERAGE DEPTH OF UNSUITABLE MATERIAL.
- ALL WORKS SHALL COMPLY WITH THE DEPARTMENT FOR TRANSPORT MANUAL OF CONTRACT DOCUMENTS FOR HIGHWAY WORKS (M.C.H.W.) - VOLUMES 1 AND 2; SPECIFICATION FOR HIGHWAY WORKS AND NOTES FOR GUIDANCE ON THE SPECIFICATION FOR HIGHWAY WORKS.
- WHERE SOFT SPOTS WITHIN THE SUB-GRADE ARE ENCOUNTERED, THESE SHOULD BE REMOVED AND FILLED WITH TYPE B5S IMPORTED MATERIAL. SELECTED, GRADED, LAID AND COMPACTED IN ACCORDANCE WITH TABLES 611, 64 AND 65 OF THE DEPARTMENT FOR TRANSPORT MANUAL OF CONTRACT DOCUMENTS FOR HIGHWAY WORKS VOLUME 1 - SPECIFICATION FOR HIGHWAY WORKS.
- SUB-BASE LAYER SHALL BE A MINIMUM 300mm THICK AND COMPRISE OF A TYPE 1 UNBOUND MIXTURE SUITABLE FOR PLACEMENT WITHIN 500mm OF CONCRETE IN ACCORDANCE WITH CLAUSE 801 OF DEPARTMENT FOR TRANSPORT MANUAL OF CONTRACT DOCUMENTS FOR HIGHWAY WORKS VOLUME 1 - SPECIFICATION FOR HIGHWAY WORKS. IT CAN CONTAIN CRUSHED ROCK AND CRUSHED CONCRETE BUT GENERALLY SHOULD NOT CONTAIN CRUSHED SLAG, RECYCLED AGGREGATES OR WELL BURNED NON-PLASTIC SHALE AND BE SELECTED, GRADED, LAID AND COMPACTED TO CLAUSE 803 AND TABLE 64 IN ACCORDANCE WITH THE AFOREMENTIONED DOCUMENT.
- THE SUB-BASE SHALL BE LAID TO A TOLERANCE OF +0mm AND -10mm FROM DATUM WITH A MAXIMUM AVERAGE DEVIATION OF -2.5mm FROM DATUM ACROSS THE EXTENT OF WORKS.
- A SAND BLINDING LAYER OVER THE SUB-BASE IS NOT PERMITTED. HOWEVER, SAND MAY BE USED FOR CLOSING THE SUB-BASE SURFACE BUT ANY RESIDUAL LAYER OF SAND SHALL NOT BE MORE THAN 5mm THICK. CONCRETE SLAB IS TO BE LAID UPON 1200 GAUGE VISQUEEN SEPARATION MEMBRANE, LAID FLAT WITHOUT CREASES AND MINIMUM 300mm LAPS. THERE SHOULD BE NO STANDING WATER ON OR UNDER MEMBRANE WHEN THE CONCRETE IS PLACED.
- CONCRETE SLAB IS TO BE DESIGNATED MIX PAV2 IN ACCORDANCE WITH BS 8500-1;
 - MINIMUM STRENGTH CLASS = C28/35
 - MAXIMUM W/C RATIO = 0.55
 - MAXIMUM AGGREGATE SIZE = 20mm
 - MINIMUM AIR CONTENT = 3.5%
 - MINIMUM CEMENT CONTENT = 300kg/m³
 - FREEZE THAW RESISTING AGGREGATES CEMENT TYPE = CEM
 - CONSISTENCE CLASS = S2
- CONCRETE SLAB REINFORCEMENT IS TO BE A393 FABRIC GRADE 500N/mm² IN ACCORDANCE WITH BS 4483: 2005.
- CONCRETE COVER TO REINFORCEMENT TO BE 50mm UNLESS NOTED OTHERWISE.
- MINIMUM LAP LENGTH TO MESH REINFORCEMENT TO BE 300mm SIDE AND END.
- MESH REINFORCEMENT SHALL BE SUPPORTED BY CHAIRS OR SPACERS AT 500mm CENTRES IN BOTH DIRECTIONS IN ACCORDANCE WITH BS 7913.
- ALL CONCRETE TO BE MECHANICALLY VIBRATED.
- SAMPLING, MAKING, CURING AND TESTING OF CONCRETE CUBES SHALL BE IN ACCORDANCE WITH BS EN 12350-1, BS EN 206-1 AND BS EN 12390 PARTS 1, 2 AND 3 RESPECTIVELY. A MINIMUM 3 SAMPLES SHALL BE TAKEN FOR THE INITIAL 50m CUBE OF CONCRETE LAID WITH A FURTHER ONE SAMPLE REQUIRED FOR EACH ADDITIONAL 150m CUBE OF CONCRETE LAID IF CONCRETE PRODUCTION IS NOT CONTROLLED OR 200m CUBE IF CONCRETE PRODUCTION IS CERTIFIED. EACH SAMPLE SHALL MAKE 3 CUBES, ONE TO BE TESTED AT 7 DAYS, ONE TO BE TESTED AT 28 DAYS AND A SPARE. 7 AND 28 DAY TEST RESULTS SHOULD BE ISSUED TO SLEATER & WATSON LLP ENGINEER FOLLOWING TEST COMPLETION.
- AFTER FINAL REGULATION OF THE CONCRETE SLAB SURFACE AND BEFORE THE APPLICATION OF THE CURING MEMBRANE, THE SURFACE OF THE CONCRETE IS TO HAVE A WIRE BRUSHED TEXTURED FINISH IN A DIRECTION PERPENDICULAR TO THE LONGITUDINAL AXIS OF THE BAY. THE MINIMUM TEXTURE DEPTH SHALL BE AN AVERAGE OF 1.00mm WITH NO MEASUREMENT LESS THAN 0.75mm.
- FOLLOWING COMPLETION OF THE SURFACE FINISH, THE SLAB SHOULD BE CURED FOR A MINIMUM 7 DAYS WITH A RESIN BASED ALUMINISED CURING COMPOUND OR POLYTHENE SHEET. INSULATION BLANKETS SHOULD BE USED TO ENSURE THE SURFACE TEMPERATURE DOES NOT DROP BELOW 3°C AND REMAIN IN PLACE FOR A MINIMUM OF 3 DAYS.
- ALL CONCRETE SLAB JOINTS SHALL BE STRAIGHT, CONTINUOUS AND AT LOCATIONS INDICATED UPON THE PLAN DRAWINGS OR AS AGREED WITH SLEATER & WATSON ENGINEER. CAST IN STRIPS AND / OR INFILL SEALANT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATION.
- THE CONCRETE SLAB SHOULD NOT BE TRAFFICKED UNTIL THE COMPRESSIVE STRENGTH HAS REACHED 28N/mm². THIS WILL BE AT APPROXIMATELY 7 DAYS. HOWEVER, CONCRETE CUBES SHOULD BE TAKEN TO CONFIRM THIS STRENGTH IS ACHIEVED. NECESSARY PROTECTION SHOULD BE PROVIDED OVER THE SLAB IF THE ACCESS IS USED FOR CONSTRUCTION TRAFFIC PRIOR TO FULL STRENGTH BEING ACHIEVED AT 28 DAYS.

C2	LEVELS CORRECTED TO A.O.D. LEVEL. WALL ARRANGEMENT AMENDED	10.03.20	MB
C1	CONSTRUCTION ISSUE	14.02.20	MB
T2	DRAWING UPDATED FOLLOWING COMMENTS & SITE SURVEY	09.07.19	MB
T1	ISSUED FOR COSTING PURPOSES	21.06.19	MB
REV	AMENDMENTS	DATE	INTS

CONSTRUCTION	
 Sleater Watson CONSULTING CIVIL & STRUCTURAL ENGINEERS Sleater & Watson LLP 26 West Cliff, Preston, Lancashire, PR1 8HU. Telephone: 01772 821044 E-mail: admin@sleaterwatson.co.uk Website: www.sleaterwatson.co.uk	
CLIENT	T. CLARKE
PROJECT	CHEMICAL DELIVERY AREA CTF BUILDING BAE SAMLESBURY
DRAWING TITLE	EXTERNAL CHEMICAL DELIVERY AREA BUNDED AREA TO TANKS
DRAWN	M BILLINGTON
DATE	21.06.19
DRAWING NUMBER	218/69/10
CHECKED	
SCALE@A1	1:50 1:20
REV	C2