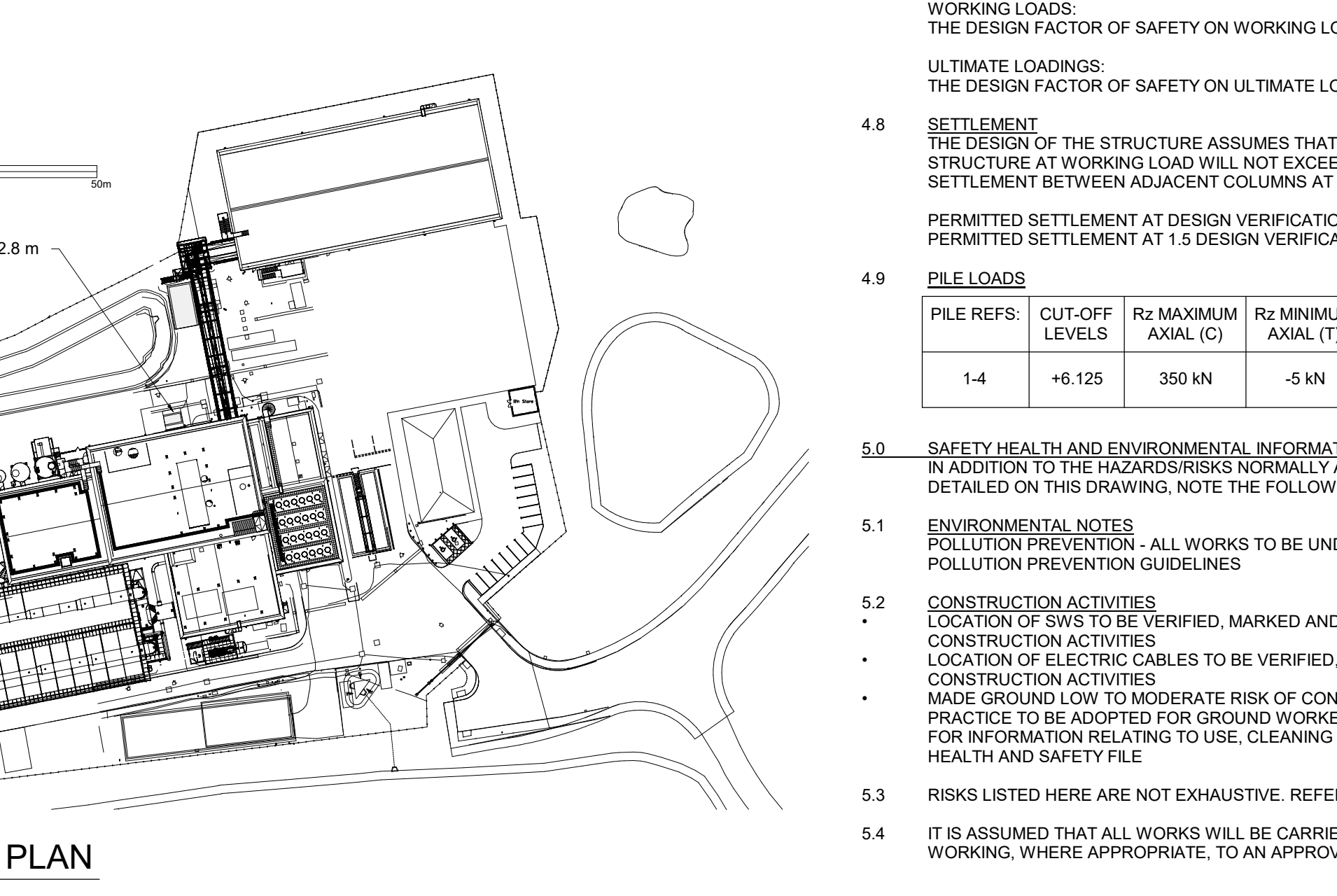
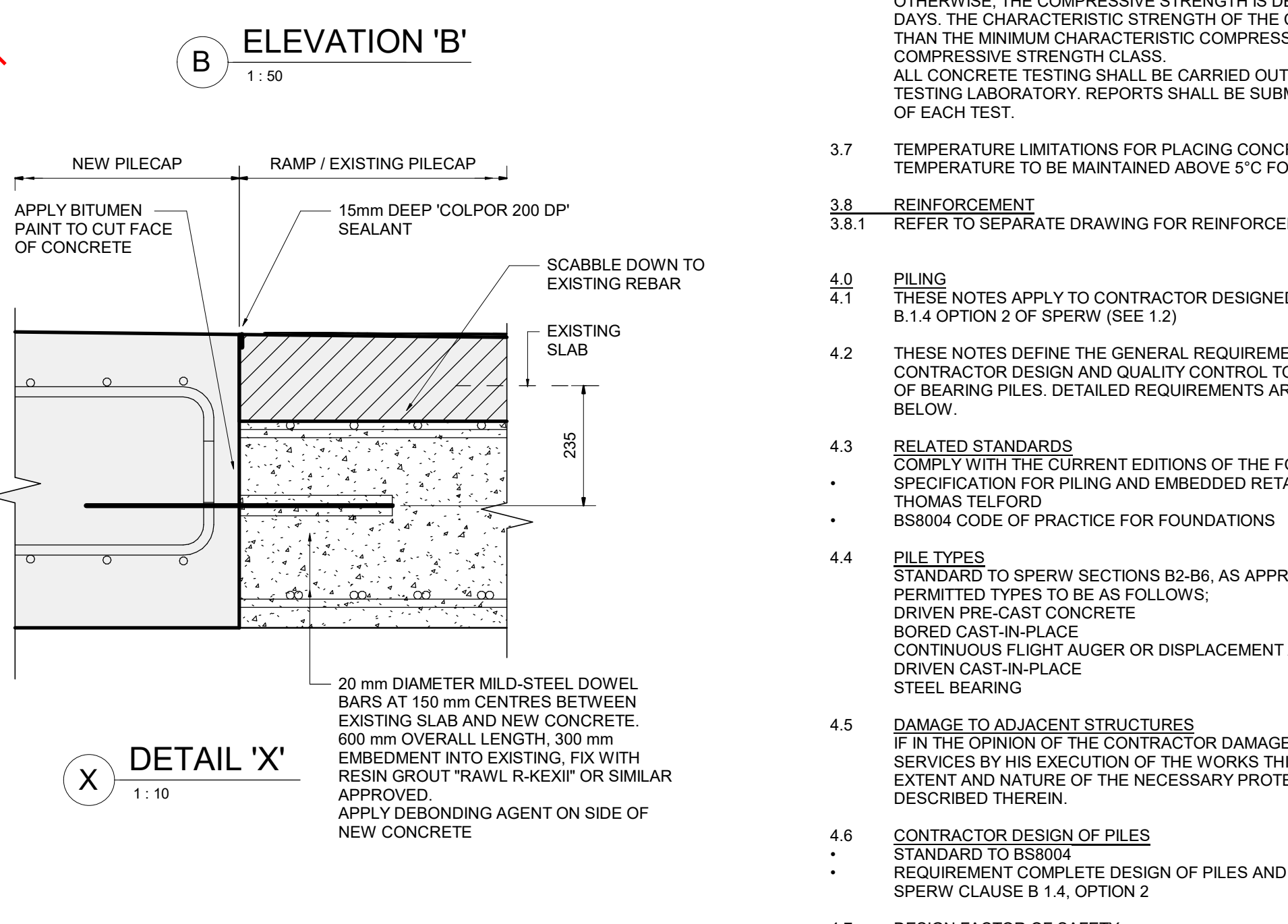
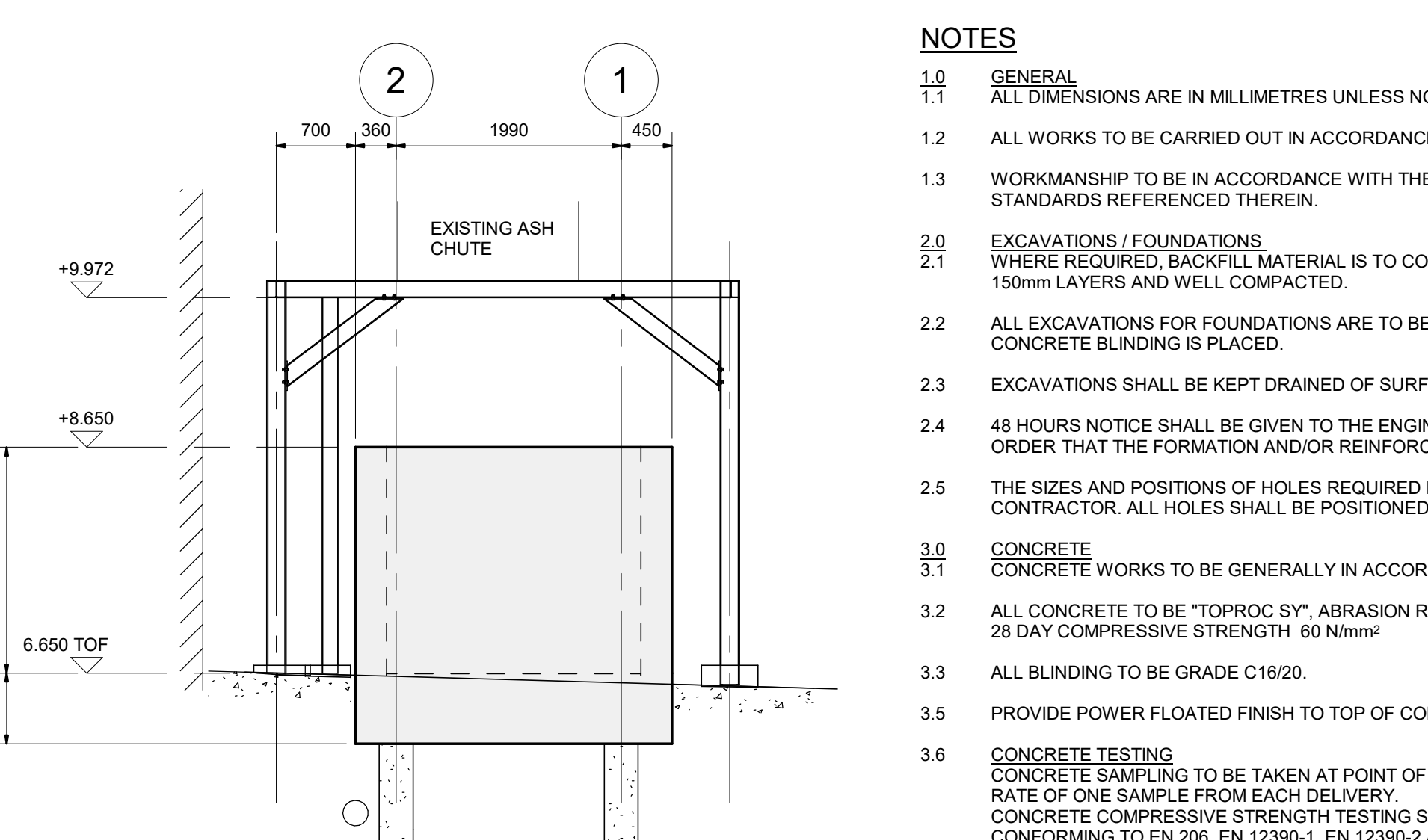
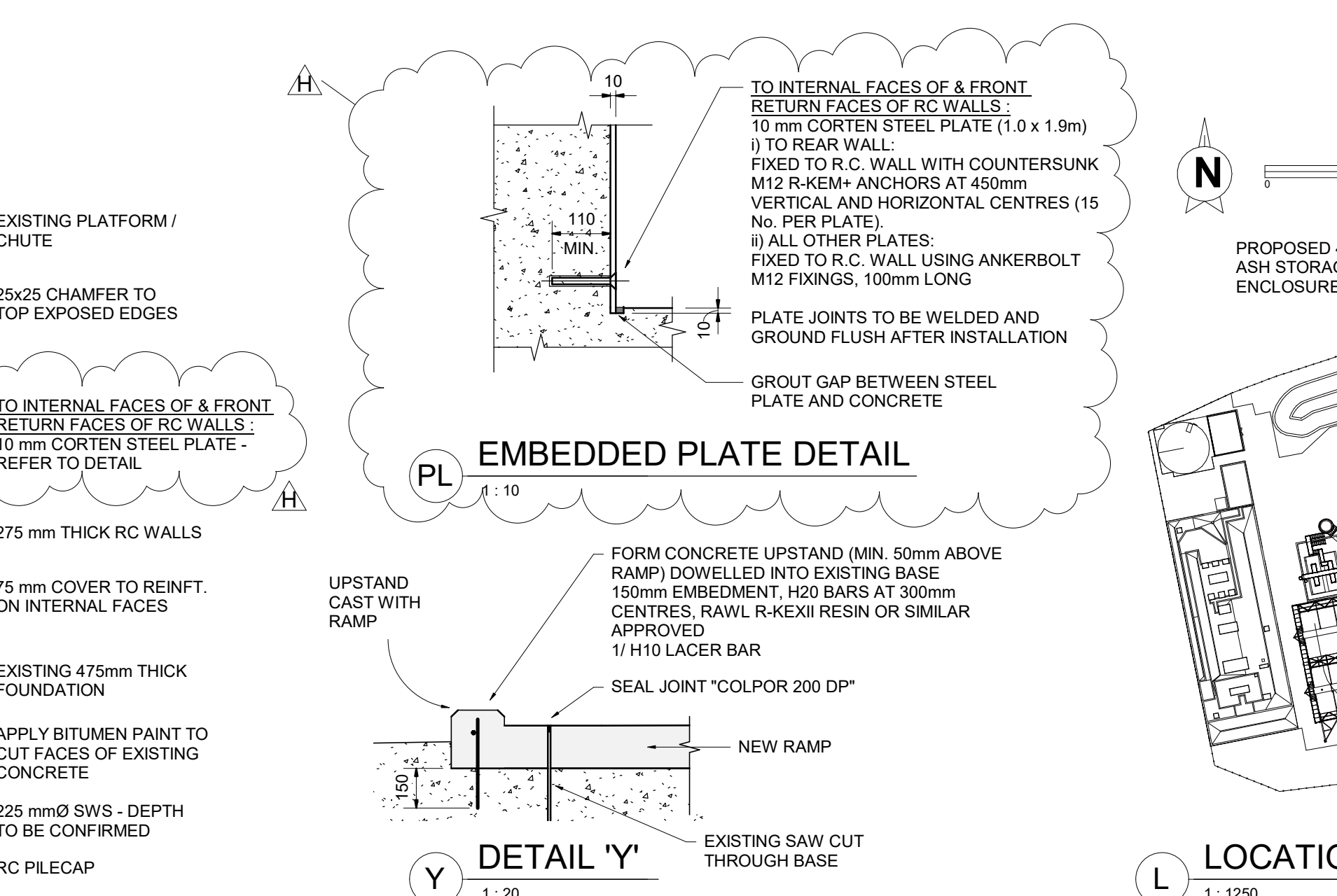
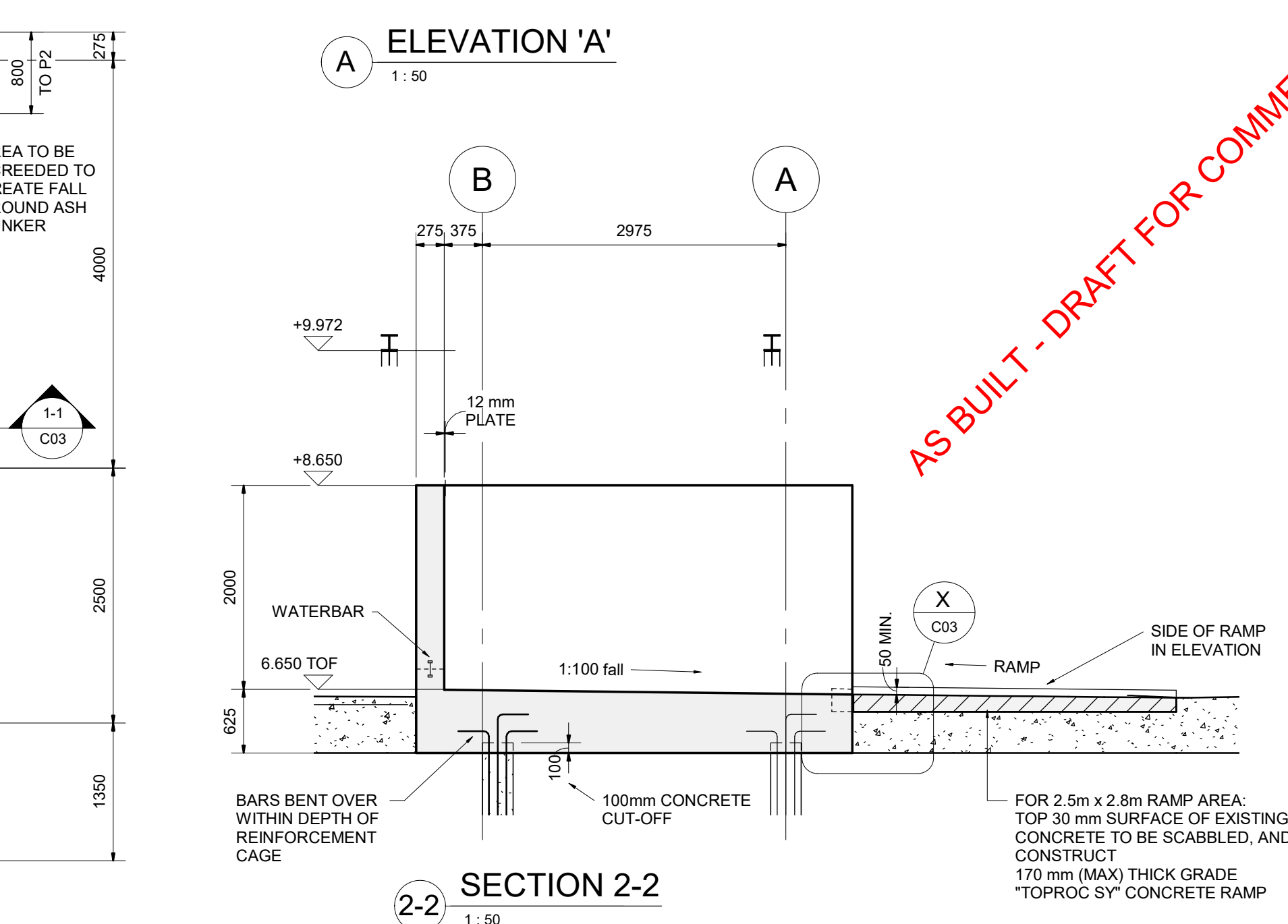
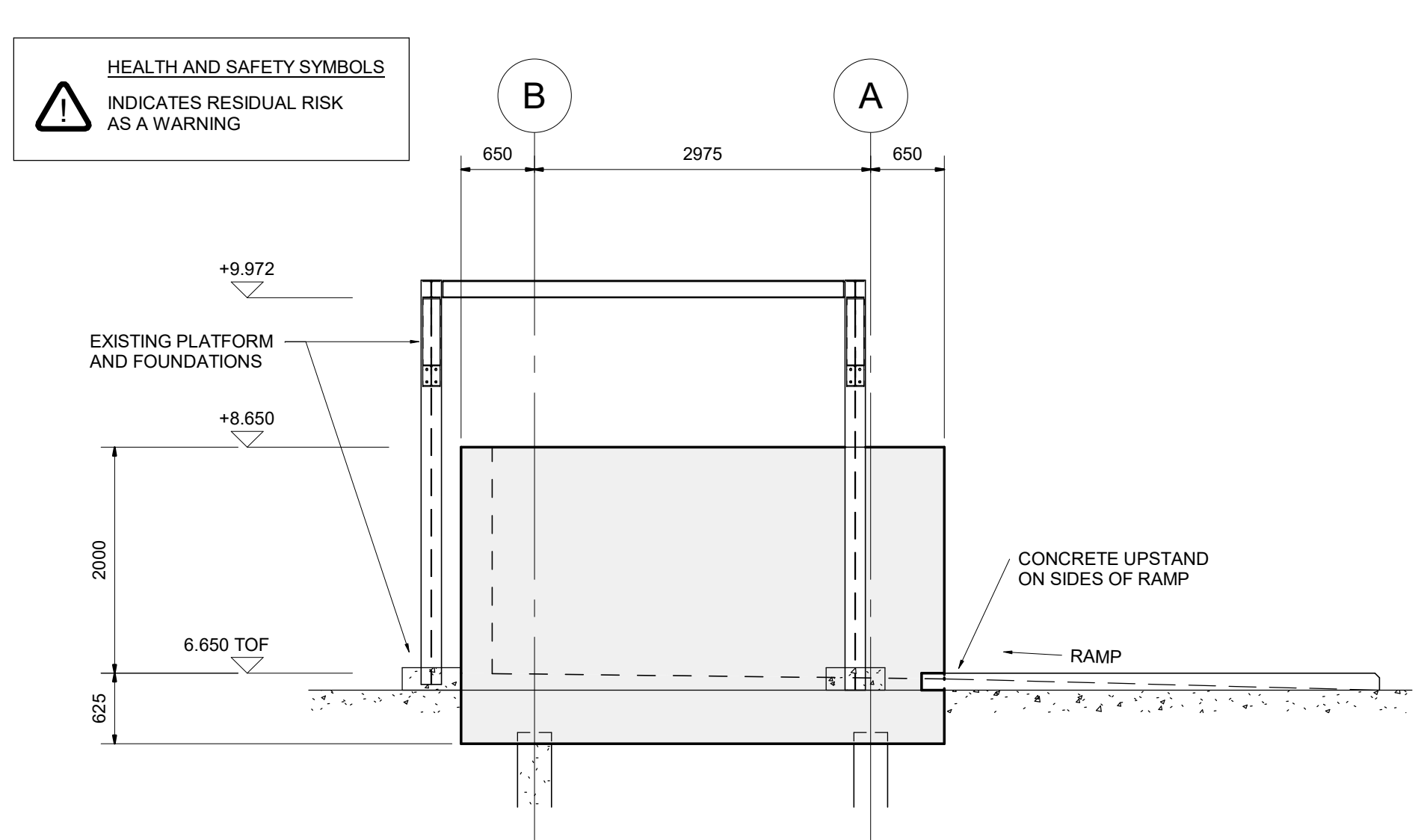
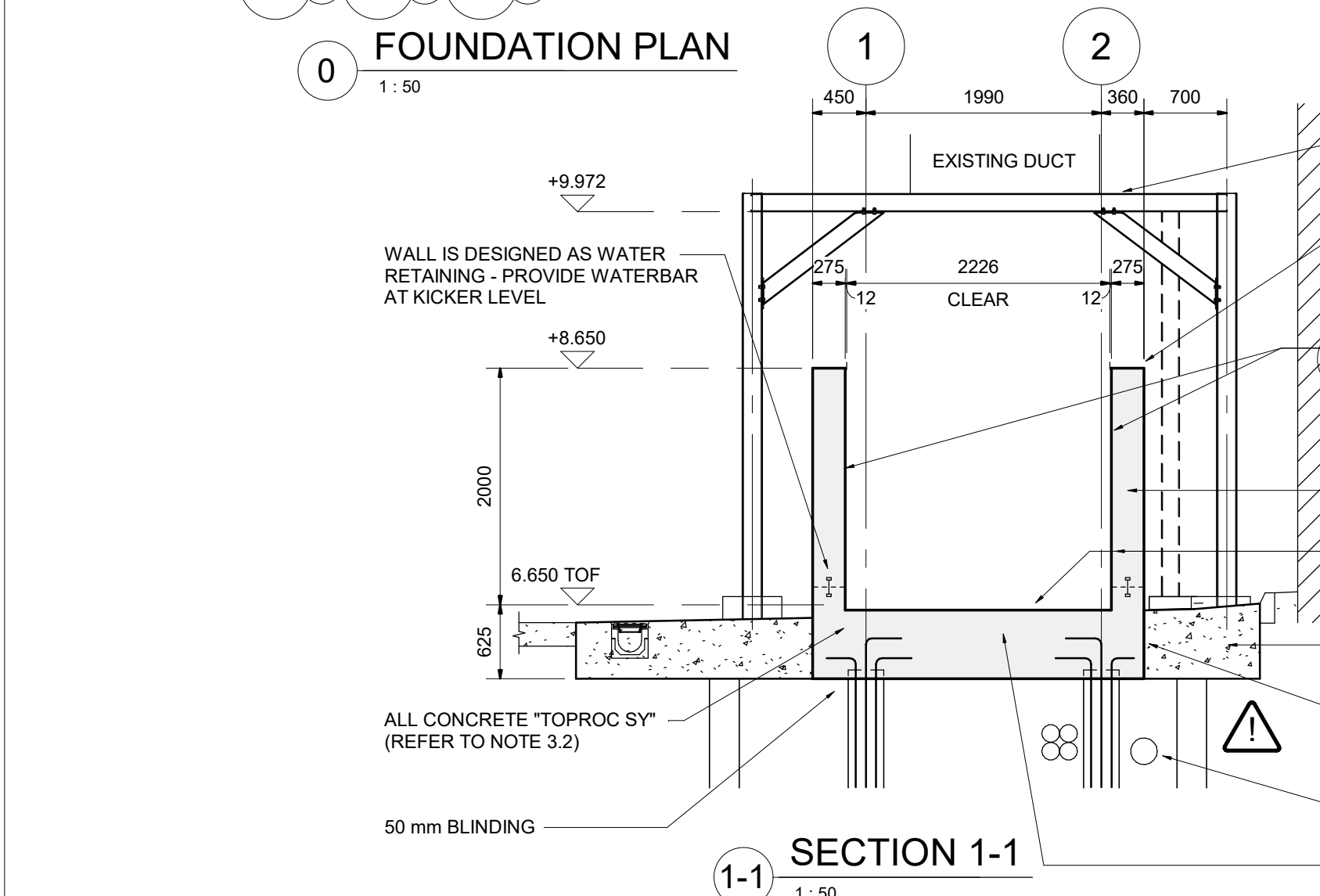
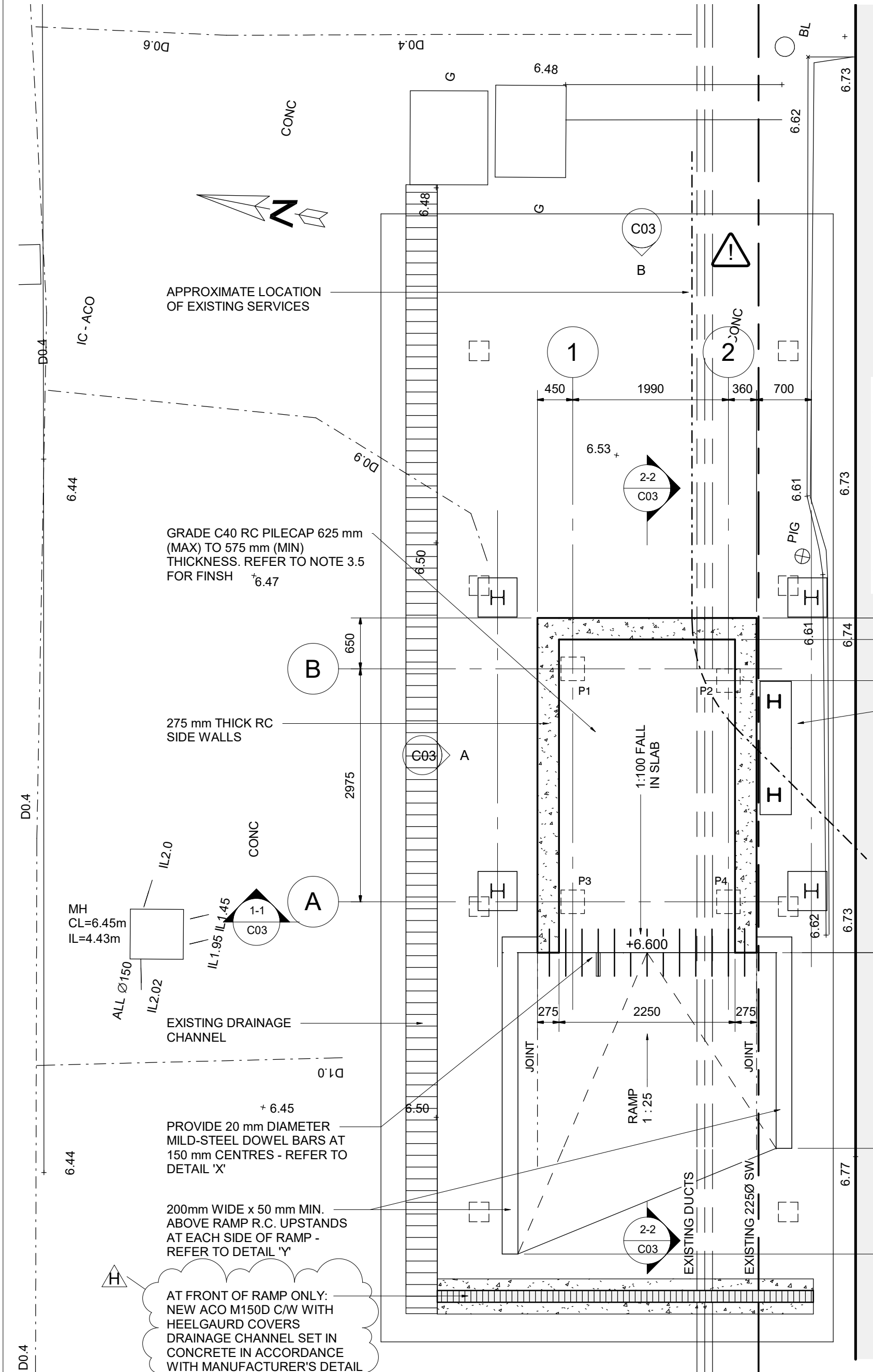




- NOTES**
- 1.0 GENERAL
 - 1.1 ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
 - 1.2 ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH THE PROJECT SPECIFICATION.
 - 1.3 WORKMANSHIP TO BE IN ACCORDANCE WITH THE LATEST EDITION OF BS8000 AND ANY STANDARDS REFERENCED THEREIN.
 - 2.0 EXCAVATIONS / FOUNDATIONS
 - 2.1 WHERE REQUIRED, BACKFILL MATERIAL IS TO COMPRISE SELECTED HARDCORE, AND PLACED IN 150mm LAYERS AND WELL COMPACTED.
 - 2.2 ALL EXCAVATIONS FOR FOUNDATIONS ARE TO BE INSPECTED BY THE ENGINEER BEFORE CONCRETE BLINDING IS PLACED.
 - 2.3 EXCAVATIONS SHALL BE KEPT DRAINED OF SURFACE AND GROUND WATER AT ALL TIMES.
 - 2.4 48 HOURS NOTICE SHALL BE GIVEN TO THE ENGINEER BEFORE CONCRETE IS POURED, IN ORDER THAT THE FORMATION AND/OR REINFORCEMENT MAY BE INSPECTED.
 - 2.5 THE SIZES AND POSITIONS OF HOLES REQUIRED FOR SERVICES SHALL BE CONFIRMED BY THE CONTRACTOR. ALL HOLES SHALL BE POSITIONED TO MISS MAJOR STRUCTURAL ELEMENTS.
 - 3.0 CONCRETE
 - 3.1 CONCRETE WORKS TO BE GENERALLY IN ACCORDANCE WITH BS EN 206:2013.
 - 3.2 ALL CONCRETE TO BE "TOPROC SY", ABRASION RESISTANT 28 DAY COMPRESSIVE STRENGTH 60 N/mm²
 - 3.3 ALL BLINDING TO BE GRADE C16/20.
 - 3.5 PROVIDE POWER FLOATED FINISH TO TOP OF CONCRETE, WITH HAND TROWELLED EDGES.
 - 3.6 CONCRETE TESTING
 - 3.7 CONCRETE SAMPLING TO BE TAKEN AT POINT OF DISCHARGE FROM DELIVERY VEHICLE, AT A RATE OF ONE SAMPLE FROM EACH DELIVERY.
 - 3.8 CONCRETE COMPRESSIVE STRENGTH TESTING SHALL BE CARRIED OUT ON 150 mm CUBES CONFORMING TO EN 206, EN 12390-1, EN 12390-2 AND EN 12390-3. UNLESS SPECIFIED OTHERWISE, THE COMPRESSIVE STRENGTH IS DETERMINED ON SPECIMENS TESTED AT 28 DAYS. THE CHARACTERISTIC STRENGTH OF THE CONCRETE SHALL BE EQUAL TO OR GREATER THAN THE MINIMUM CHARACTERISTIC COMPRESSIVE STRENGTH FOR THE SPECIFIED COMPRESSIVE STRENGTH CLASS.
 - 3.9 ALL CONCRETE TESTING SHALL BE CARRIED OUT BY A UKAS OR OTHER NATIONAL EQUIVALENT TESTING LABORATORY. REPORTS SHALL BE SUBMITTED WITHIN ONE DAY OF THE COMPLETION OF EACH TEST.
 - 3.7 TEMPERATURE LIMITATIONS FOR PLACING CONCRETE: MIN 5°C, MAX 30°C. SURFACE TEMPERATURE TO BE MAINTAINED ABOVE 5°C FOR MINIMUM OF 4 DAYS FROM CASTING.
 - 3.8 REINFORCEMENT
 - 3.8.1 REFER TO SEPARATE DRAWING FOR REINFORCEMENT DETAILS.
 - 4.0 PILING
 - 4.1 THESE NOTES APPLY TO CONTRACTOR DESIGNED PILES AS DESCRIBED UNDER SECTION B.1.4 OPTION 2 OF SPERW (SEE 1.2)
 - 4.2 THESE NOTES DEFINE THE GENERAL REQUIREMENTS FOR MATERIALS, WORKMANSHIP, CONTRACTOR DESIGN AND QUALITY CONTROL TO BE APPLIED TO THE PROVISION OF ALL TYPES OF BEARING PILES. DETAILED REQUIREMENTS ARE INCLUDED WITHIN THE DOCUMENTS LISTED BELOW.
 - 4.3 RELATED STANDARDS
 - 4.4 COMPLY WITH THE CURRENT EDITIONS OF THE FOLLOWING DOCUMENTS -
 - 4.5 SPECIFICATION FOR PILING AND EMBEDDED RETAINING WALLS (SPERW) PUBLISHED BY THOMAS TELFORD
 - 4.6 BS8004 CODE OF PRACTICE FOR FOUNDATIONS
 - 4.7 PILE TYPES
 - 4.8 STANDARD TO SPERW SECTIONS B2-B6, AS APPROPRIATE TO PILE TYPE.
 - 4.9 PERMITTED TYPES TO BE AS FOLLOWS:
 - 4.10 DRIVEN PRE-CAST CONCRETE
 - 4.11 BORED CAST-IN-PLACE
 - 4.12 CONTINUOUS FLIGHT AUGER OR DISPLACEMENT AUGER
 - 4.13 DRIVEN CAST-IN-PLACE
 - 4.14 STEEL BEARING
 - 4.5 DAMAGE TO ADJACENT STRUCTURES
 - 4.6 IF IN THE OPINION OF THE CONTRACTOR DAMAGE MAY BE CAUSED TO OTHER STRUCTURES OR SERVICES BY HIS EXECUTION OF THE WORKS THIS SHALL BE NOTED IN THIS TENDER AND THE EXTENT AND NATURE OF THE NECESSARY PROTECTIVE OR OTHER TEMPORARY WORKS DESCRIBED THEREIN.
 - 4.6 CONTRACTOR DESIGN OF PILES
 - 4.7 STANDARD TO BS8004
 - 4.8 REQUIREMENT COMPLETE DESIGN OF PILES AND CONSTRUCT IN ACCORDANCE WITH SPERW CLAUSE B.1.4, OPTION 2
 - 4.7 DESIGN FACTOR OF SAFETY
 - 4.8 WORKING LOADS:
 - 4.9 THE DESIGN FACTOR OF SAFETY ON WORKING LOADING SHOULD BE 3.0
 - 4.10 ULTIMATE LOADINGS:
 - 4.11 THE DESIGN FACTOR OF SAFETY ON ULTIMATE LOADING SHOULD BE NO LESS THAN 1.0
 - 4.8 SETTLEMENT
 - 4.9 THE DESIGN OF THE STRUCTURE ASSUMES THAT THE SETTLEMENT OF ANY PART OF THE STRUCTURE AT WORKING LOAD WILL NOT EXCEED 10 mm AND THAT THE DIFFERENTIAL SETTLEMENT BETWEEN ADJACENT COLUMNS AT WORKING LOAD WILL NOT EXCEED 5 mm.
 - 4.10 PERMITTED SETTLEMENT AT DESIGN VERIFICATION LOAD = 10 mm
 - 4.11 PERMITTED SETTLEMENT AT 1.5 DESIGN VERIFICATION LOAD = 20 mm
 - 4.9 PILE LOADS
 - 4.10 PILE REFS:
 - 4.11 CUT-OFF LEVELS
 - 4.12 R_z MAXIMUM AXIAL (C)
 - 4.13 R_z MINIMUM AXIAL (T)
 - 4.14 H_x MAXIMUM SHEAR
 - 4.15 1-4
 - 4.16 +6.125
 - 4.17 350 kN
 - 4.18 -5 kN
 - 4.19 75 kN
 - 5.0 SAFETY HEALTH AND ENVIRONMENTAL INFORMATION
 - 5.1 IN ADDITION TO THE HAZARDS/RISKS NORMALLY ASSOCIATED WITH THE TYPE OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING RISKS AND INFORMATION:
 - 5.1 ENVIRONMENTAL NOTES
 - 5.2 POLLUTION PREVENTION - ALL WORKS TO BE UNDERTAKEN IN LINE WITH RELEVANT POLLUTION PREVENTION GUIDELINES
 - 5.2 CONSTRUCTION ACTIVITIES
 - 5.3 LOCATION OF SWS TO BE VERIFIED, MARKED AND PROTECTED PRIOR TO CONSTRUCTION ACTIVITIES
 - 5.4 LOCATION OF ELECTRIC CABLES TO BE VERIFIED, MARKED AND PROTECTED PRIOR TO CONSTRUCTION ACTIVITIES
 - 5.5 MADE GROUND LOW TO MODERATE RISK OF CONTAMINATION NORMAL GOOD HYGIENE PRACTICE TO BE ADOPTED FOR GROUND WORKERS.
 - 5.6 FOR INFORMATION RELATING TO USE, CLEANING AND MAINTENANCE SEE THE HEALTH AND SAFETY FILE
 - 5.3 RISKS LISTED HERE ARE NOT EXHAUSTIVE. REFER TO CDM RISK ASSESSMENT REGISTER
 - 5.4 IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROVED METHOD STATEMENT.

Rev	No.	REVISION	by	date	No.	REVISION	by	date
1	A	REDRAWN.	MW	29.07.21	F	RAMP DETAIL 'Y' ADDED, NOTE R.E. SCABBLE DOWN TO EXISTING REBAR FOR RAMP ADDED, NOTE R.E. FLOOR PLATES ADDED	MW	14.09.21
2	B	WALL HEIGHT INCREASED, EMBEDDED STEEL PLATE DETAIL SHOWN TO WALLS, RAMP LENGTH INCREASED TO 2.5m, ACO DRAIN SHOWN AT SIDE OF RAMP.	MW	30.07.21	G	EMBEDDED PLATE DETAIL AMENDED - BOTTOM OF PLATE SHOWN EMBEDDED IN CONCRETE FLOOR.	MW	15.09.21
3	C	DRAWING NUMBER CHANGED AND UPDATED TO CONSTRUCTION STAGE.	MW	17.08.21				
4	D	PILE POSITIONS UPDATED TO SUIT SITE CONSTRAINTS, DOWEL DETAIL 'X' ADDED, ACO DRAINS OMITTED, TOP OF SLAB LEVEL CHANGED, OVERALL THICKNESS OF PILECAP INCREASED TO ENABLE DOWELLING INTO EXISTING ON WEST SIDE.	MW	09.09.21				
5	E	MINOR ALTERATIONS.	MW	13.09.21				

NOTES

- 1 Do not scale from this drawing
- 2 All dimensions to be checked on site
- 3 As built drawings are prepared, in part, based upon information furnished by others. While this information is believed to be reliable, James & Nicholas LLP assume no responsibility for the accuracy of As built drawings or for any errors or omissions that may have been incorporated into them as a result of incorrect information provided to us by others. Those relying on an As built drawing are advised to obtain independent verification of its accuracy.

STAGE

AS BUILT

REFER ALSO TO THE FOLLOWING:

Drawings:

Bending Schedules:

CLIENT

MANNING CONSTRUCTION

james&nicholas

Grove House, Grove Place, Port Talbot SA13 1XA • Telephone 01639 885431 • Fax 01639 891687
Email admin@jamesandnicholas.com • www.jamesandnicholas.com

Job title

New Ash Storage Buildings, Margam Green Energy Park, Mannings

Drawing title

PRIMARY 4.00 x 2.25m ASH RETAINING ENCLOSURE (UNDER EXISTING PLATFORM)

drawn	MW	28.06.21
checked	KJT	28.06.21
approved	KJT	28.06.21

Job No: 21.38 Drawing No: C03 Rev: H

scales: As indicated