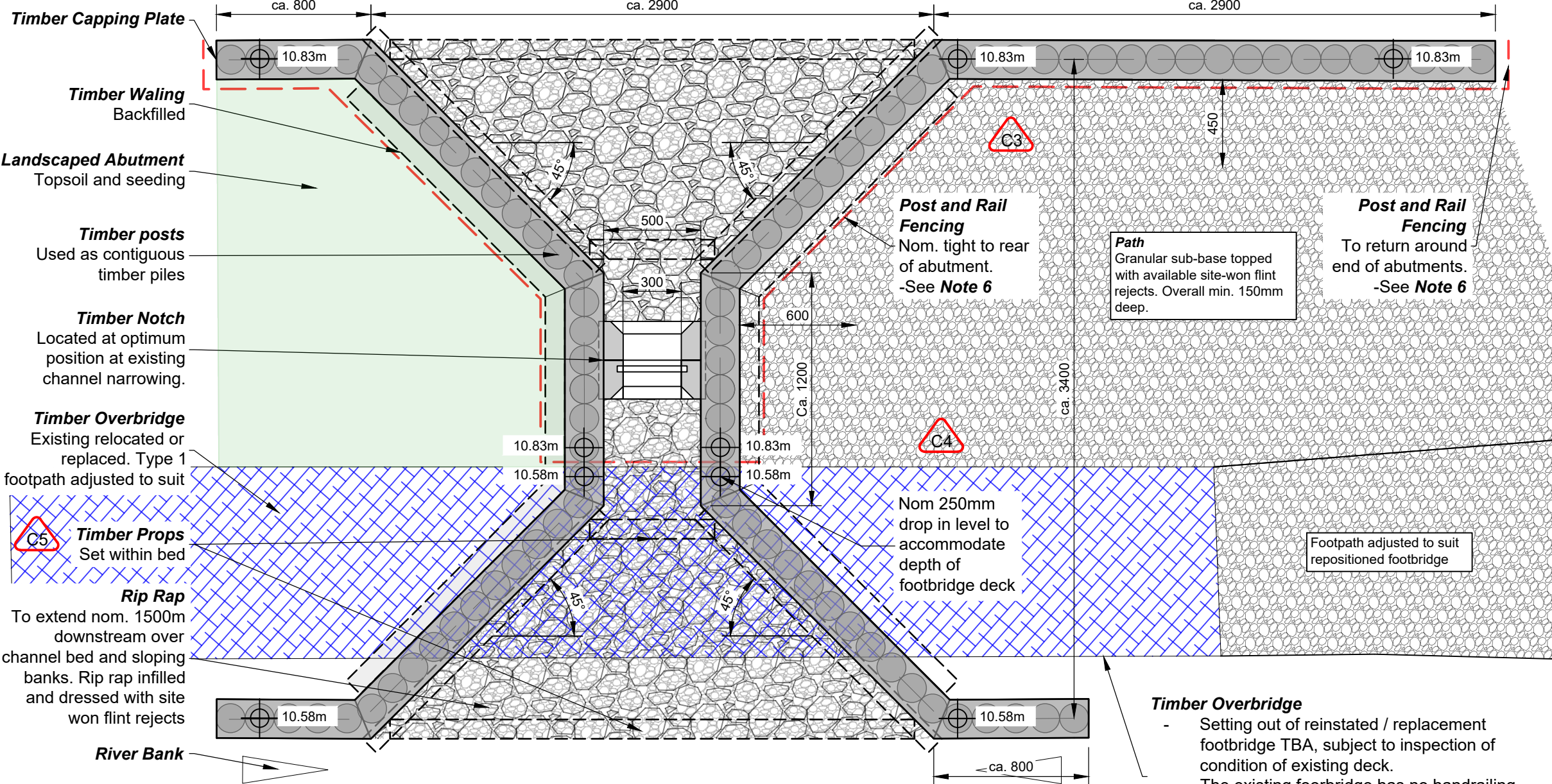


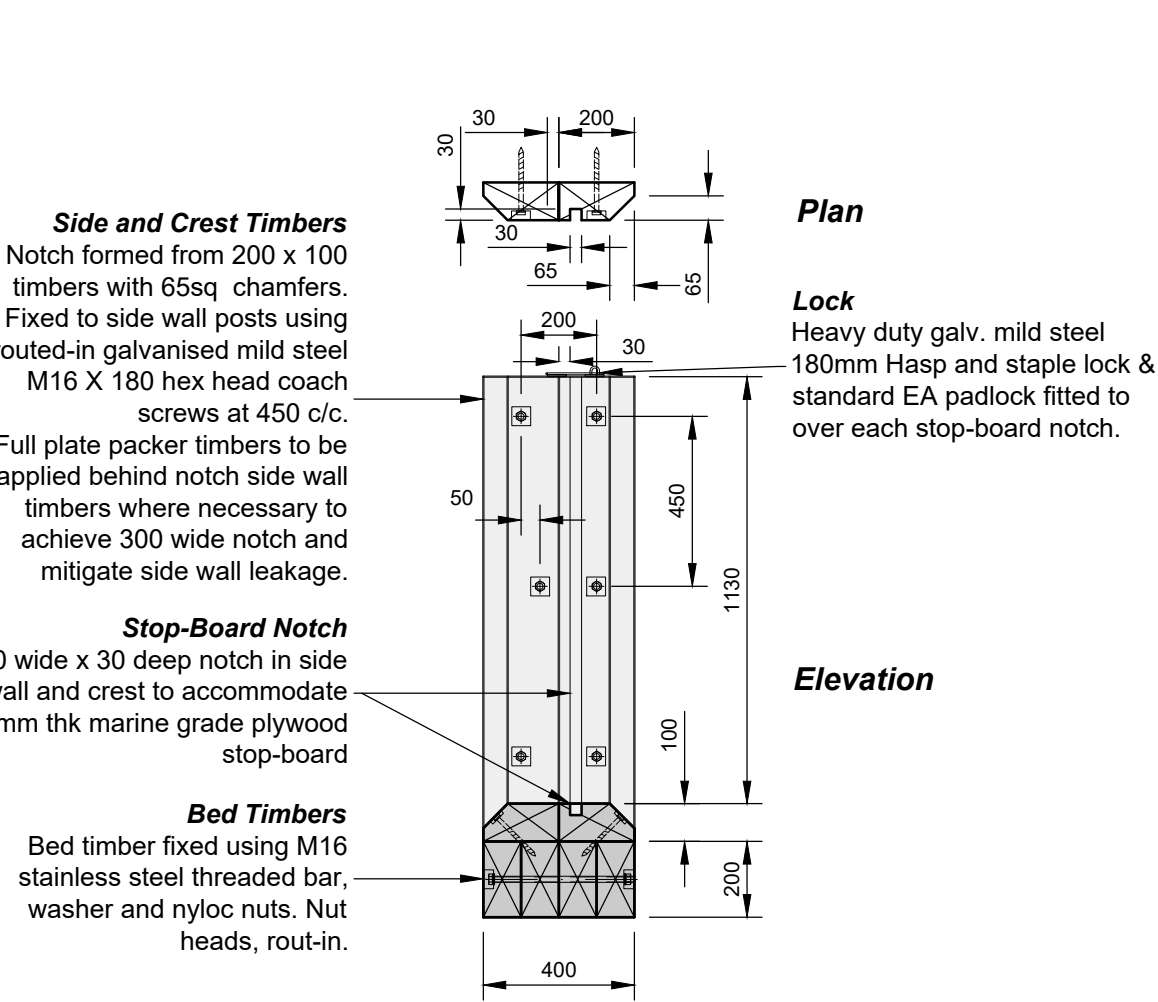
110 / 01 Site Plan - Timber Notching Works

(1:100)



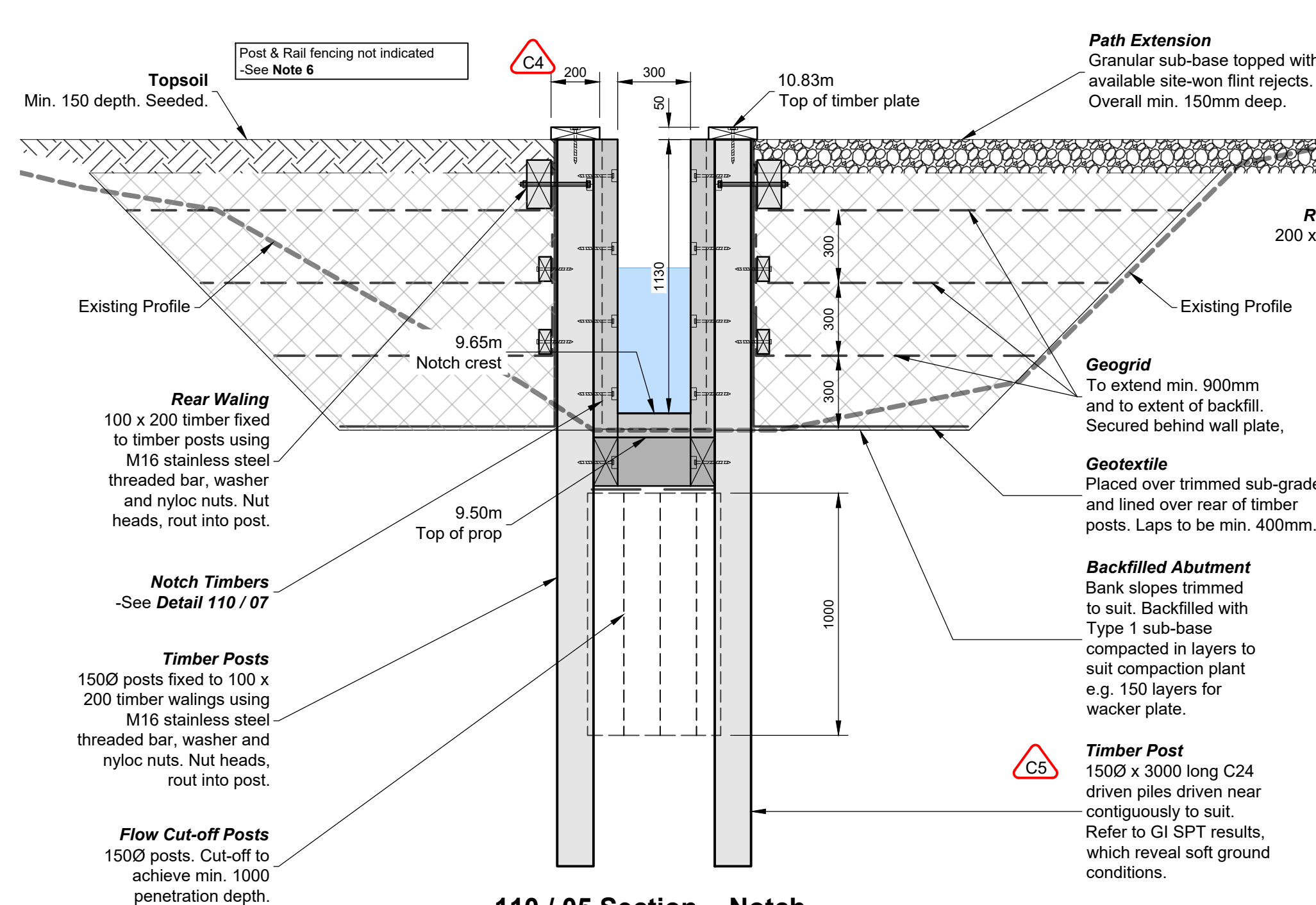
110 / 02 General Arrangement - Notch and Abutments

(1:25)



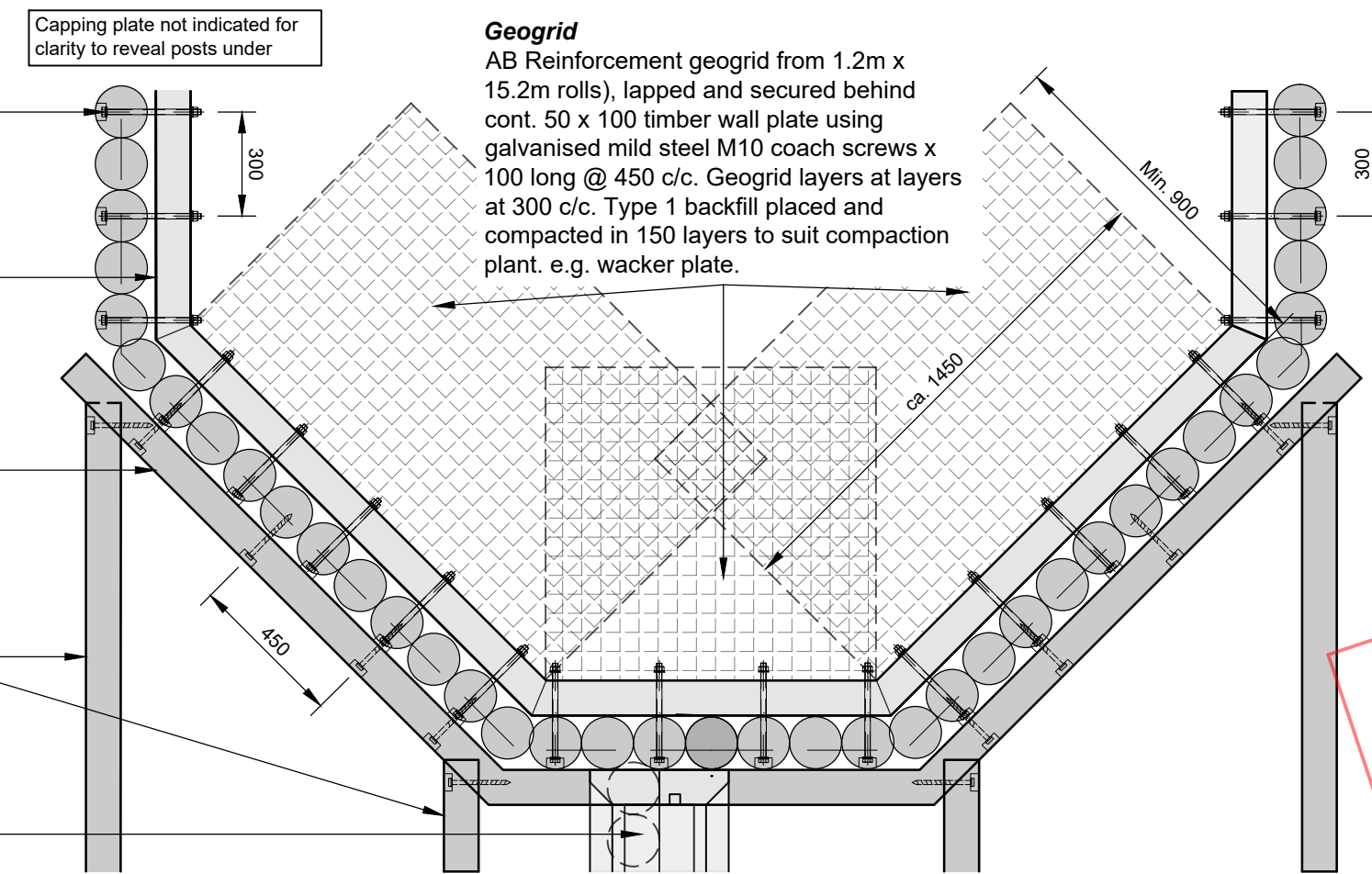
110 / 07 Detail - Notch

(1:20)



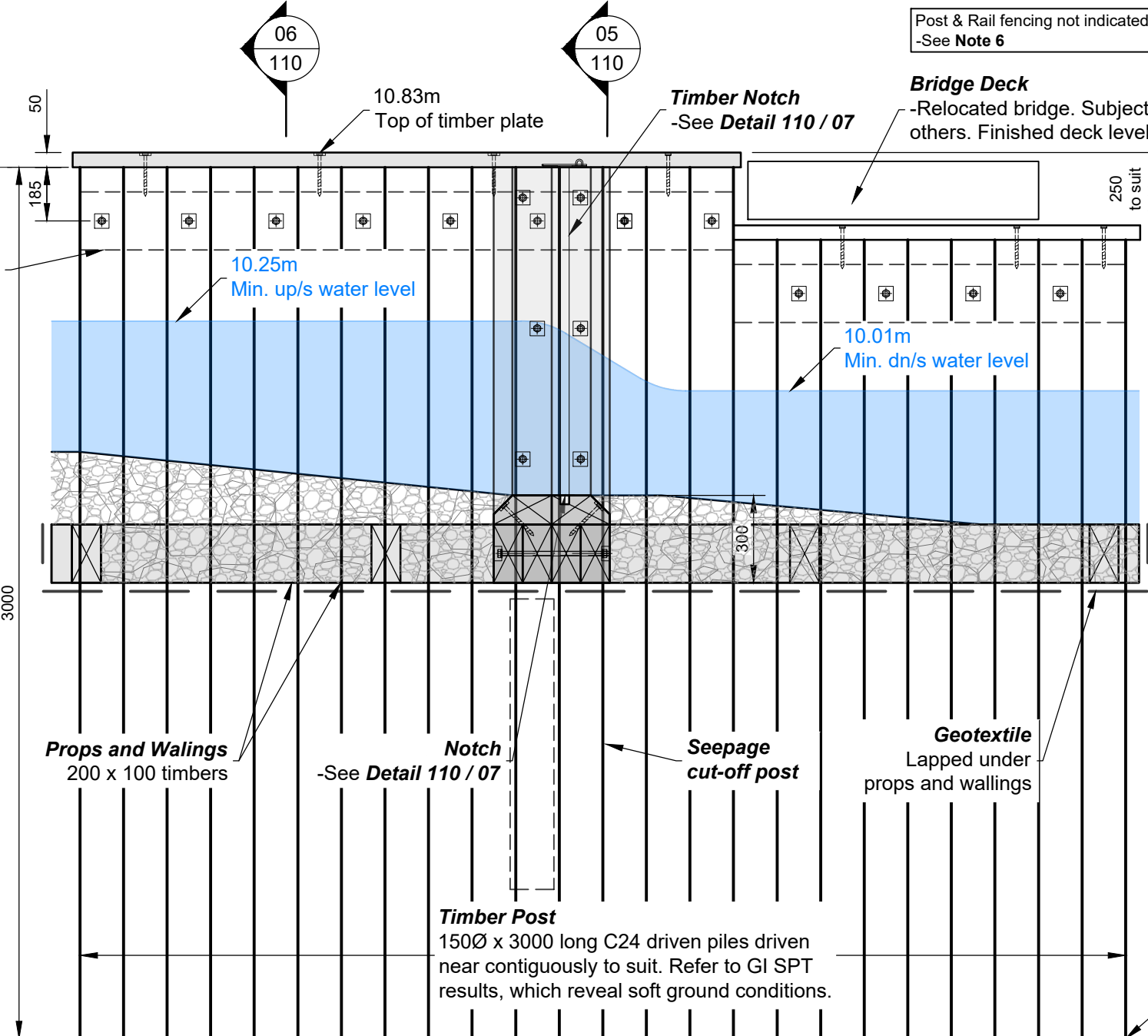
110 / 05 Section - Notch

(1:20)



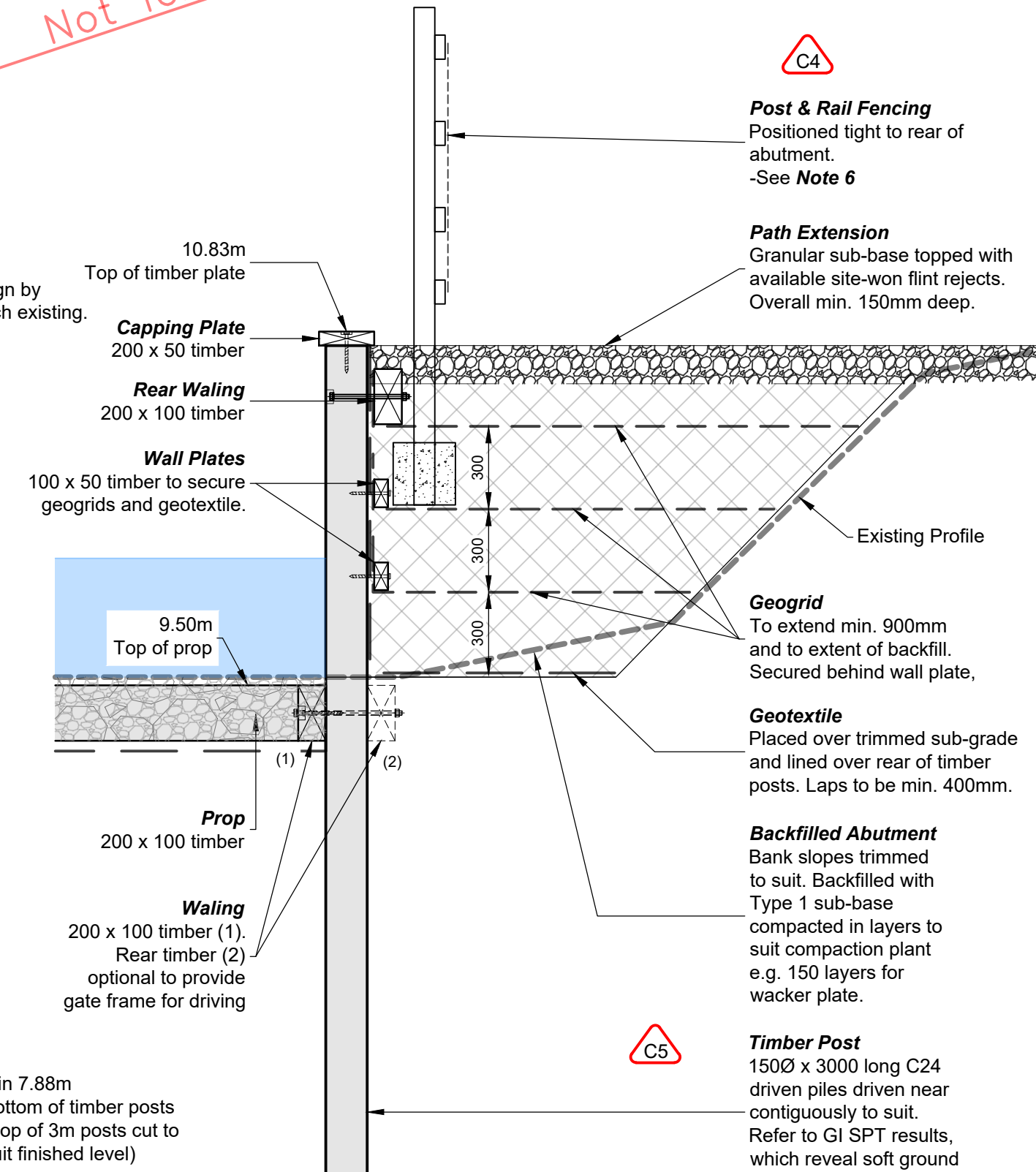
110 / 03 Plan - Abutment

(1:20)



110 / 04 Elevation - Abutment

(1:20)



110 / 06 Typical Section - Abutment

(1:20)

| SAFETY HEALTH & ENVIRONMENTAL INFORMATION | |
|--|---|
| In addition to the hazards/risks normally associated with the type of work detailed on this drawing, note the following risks and information. | |
| Risks listed here are not exhaustive. Refer to Designer's Risk Assessment and pre-construction phase plan. | |
| CONSTRUCTION | |
| C1 | Managing flow & stage levels in River Thet <ul style="list-style-type: none">- Monitor flow levels & flood warnings.- Check adequacy of cut-off & stability of cofferdams. |
| C2 | Managing seepage flows through banks <ul style="list-style-type: none">- Check stability of cut face in weir and assess permeability of formation material.- Check adequacy of cut-off & stability of cofferdams |
| C3 | Working near water <ul style="list-style-type: none">- Avoid working near water where possible- Allow provision for fixed edge protection to eliminate falls into water- Allow provision for systems for work positioning and fall arrest- Assess bank stability / conditions considering access for personnel and machinery- Wear appropriate PPE |
| C4 | Risk of falls from height <ul style="list-style-type: none">- Check depth of excavations- Allow provision for fixed guard rails to eliminate falls from height and appropriate means of access not involving ladders- Allow provision for systems for work positioning and fall arrest |
| C5 | Lifting <ul style="list-style-type: none">- Check crane lifting facilities & constraints. Max. wt. of timber posts, props and walings is 30 - 40 kg.- Check access weight & size restrictions for craneage at bridge crossings along access route to site |
| C6 | Services <ul style="list-style-type: none">- Check for identified & unidentified services. Clearly highlight and services that may affect works |
| C7 | Interface with public & other site operations <ul style="list-style-type: none">- Assess risk to public on site- Check adequate warning signs and fencing in place |
| DEMOLITION | |
| ENVIRONMENTAL | |
| E1 | Pollution of Watercourse <ul style="list-style-type: none">- Create a suitable dry working area- Refer to 'Guidance for Pollution Prevention 2018'- Produce a Site Environmental Emergency Plan- Have a suitable Incident Response Plan in place |
| E2 | Biosecurity <ul style="list-style-type: none">- Contractor to comply with legislation in respect of control of invasive species. Local invasive species are Signal Crayfish and Himalayan Balsam. |
| OPERATION & MAINTENANCE | |
| For information relating to Use, Cleaning and Maintenance see the Health and Safety File | |
| It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement | |

- DIMENSIONS:**
 - Are in millimetres unless otherwise stated.
 - Marked thus (*) are approximate.
 - All levels are in metres to Site Datum.
- SPECIFICATION:**
 - All works to be carried out in accordance with the Environment Agency Minimum Technical Requirements which shall be the Civil Engineering Specification for the Water Industry (CESWI). All technical requirements clauses apply unless stated as deleted, amended or augmented in accordance with the EA WEM Contract Works Information documentation.
- TIMBER:**
 - All works to BS5268.
 - Timber stress grades:
 - Softwood C24 Posts
 - Rear wall plates C24
 - Oak side wall and crest timbers TH2 / D24.
 - Walings and props TH2 / D24
 - Capping plate TH2 / D24
 - All softwood timber to be lanalised.
 - All timber (softwood and temperate hardwood) shall carry the Forest Stewardship Council (FSC) trademark or other label from an equivalent internationally recognised, globally applicable, independent certification scheme for good forest management.
 - The purchase of recycled timber is preferable to the purchase of virgin timber from a waste hierarchy and resource use perspective. Recycled timber is defined as timber which is being used for a different purpose than the purpose for which the tree was originally felled. The previous use must be established and documented. However, it is not necessary to prove legality or sustainability of the recycled timber.
 - Timber preservative treatment shall be carried out off site, away from watercourses and in a manner to avoid any spillage or loss.
- RIP RAP ROCK:**
 - Riprap with mass grading as per BS EN 13383-1:2013 category A standard light grading of LMA10/60:
 - D50 (cm) = 26 - 31
 - M50 (kg) = 24 - 43
 - Layer thickness Dn50 (cm) = 36 or as indicated.
 - The specific gravity of Rip Rap (Core Stone) shall be greater than 2.50 T/m³ and water absorption less than 2.0% by weight. Individual core stone shall be roughly cuboid with angular corners. The length of the longest edge of any block shall be less than twice the length of the shortest edge.
- Geogrid**
 - To be AB reinforcement polyester mesh geogrid or similar approved.
- Geotextile**
 - To be Terram 1000 or similar approved.
- Landscaping**
 - Seeding to be approved grass seeding mix, native to location.
 - **Fencing:** Post & Rail fencing to be EA standard post & rail fencing 4 bar to comply with BS1722 Part 7. Posts 150 x 75 x 1800 long, rails 87 x 38 set in post mix grout. Post centres 1800, top rail nom. 1125 above ground. Welded mesh (non 0.9m high x 50mm sq aperture size x 2.5mmØ) coated with green PVC amply fixed to inside face of timber rails with galvanised 25mm u-staples at nom 300/c).
 - Fencing to span over watercourse to provide edge protection.

| | | | | | |
|------|----------|---|-------|-------|-------|
| P03 | 13/12/21 | Fenceline moved tight to rear of abutment & access gate removed. Adjustments to accommodate water buffalo crossing of channel. Abutment & footbridge setting out adjusted. Rip rap removed from dn/s. | ML | JR | TC |
| P02 | 06/12/21 | Stop-board notch added. Path widened. Site won flint rejects added to rip rap. | ML | JR | TC |
| P01 | 02/12/21 | For Information | ML | JR | TC |
| Rev. | Date | Description | Auth. | Chkd. | Appr. |

| | | | | |
|----------------------------|-------------|------------|---------|------|
| Status | | | | |
| For Information | | | | |
| Original Size | A1 | Signatures | | |
| | | Authored | M.Lakin | M.L. |
| | | Checked | J.Rana | J.R. |
| | | Approved | T.Coe | T.C. |
| © Copyright reserved | | | | |
| As Shown | | | | |
| Client | | | | |
| Environment Agency | | | | |
| Designer | | | | |
| FISHTEK CONSULTING | | | | |
| Project | | | | |
| River Thet Fish Pass Notch | | | | |
| Title | | | | |
| Timber Notch Works | | | | |
| Drawing No. | Project No. | Revision | | |
| 110 | 02549 | P03 | | |