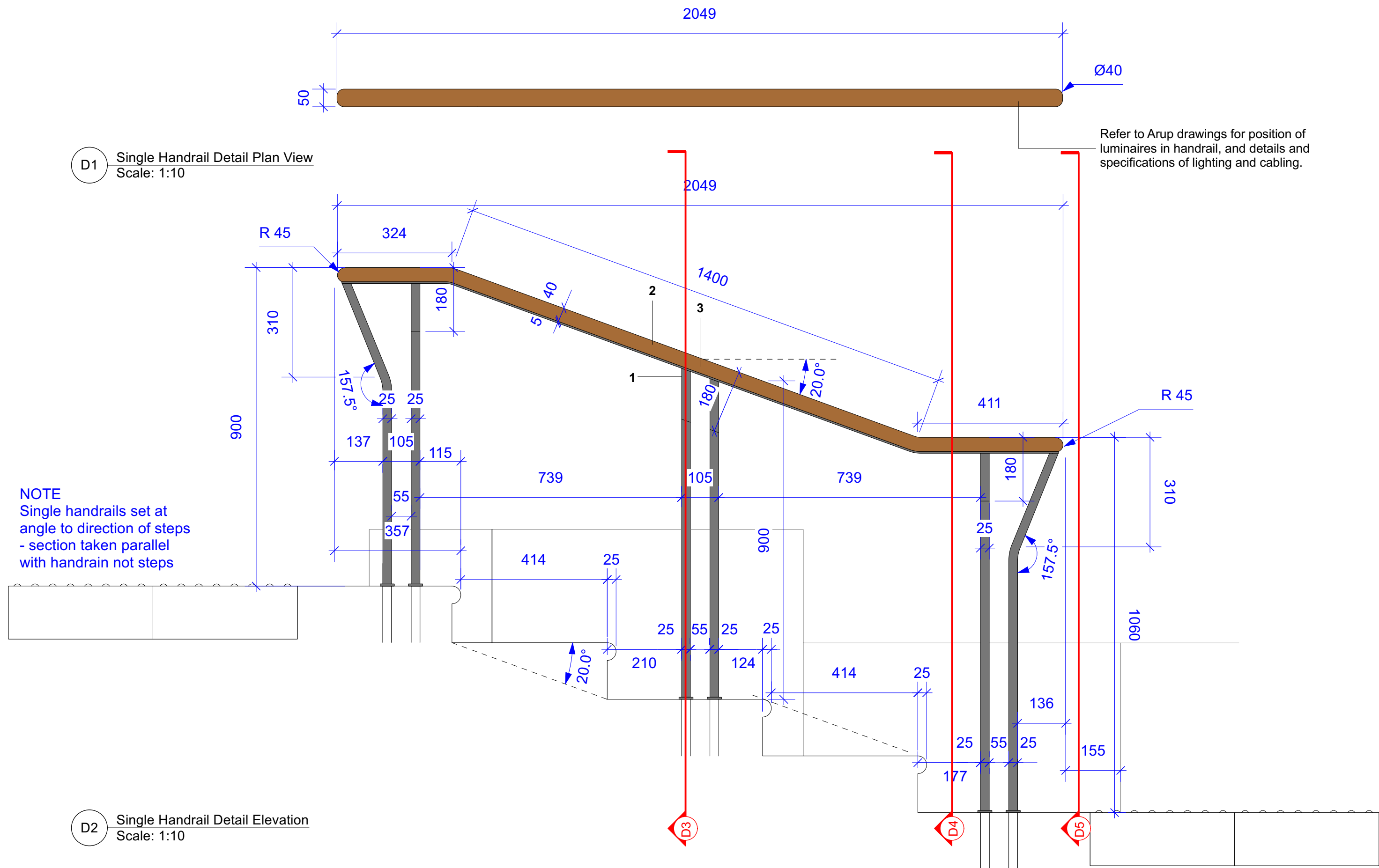
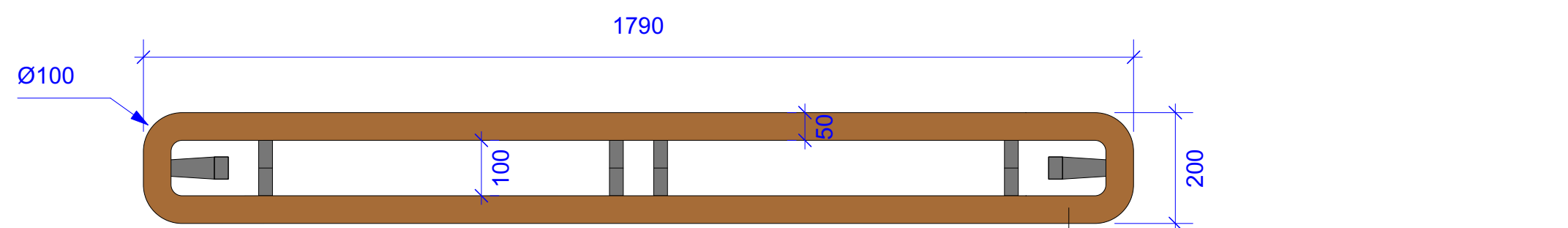




D1 Single Handrail Detail Plan View
Scale: 1:10

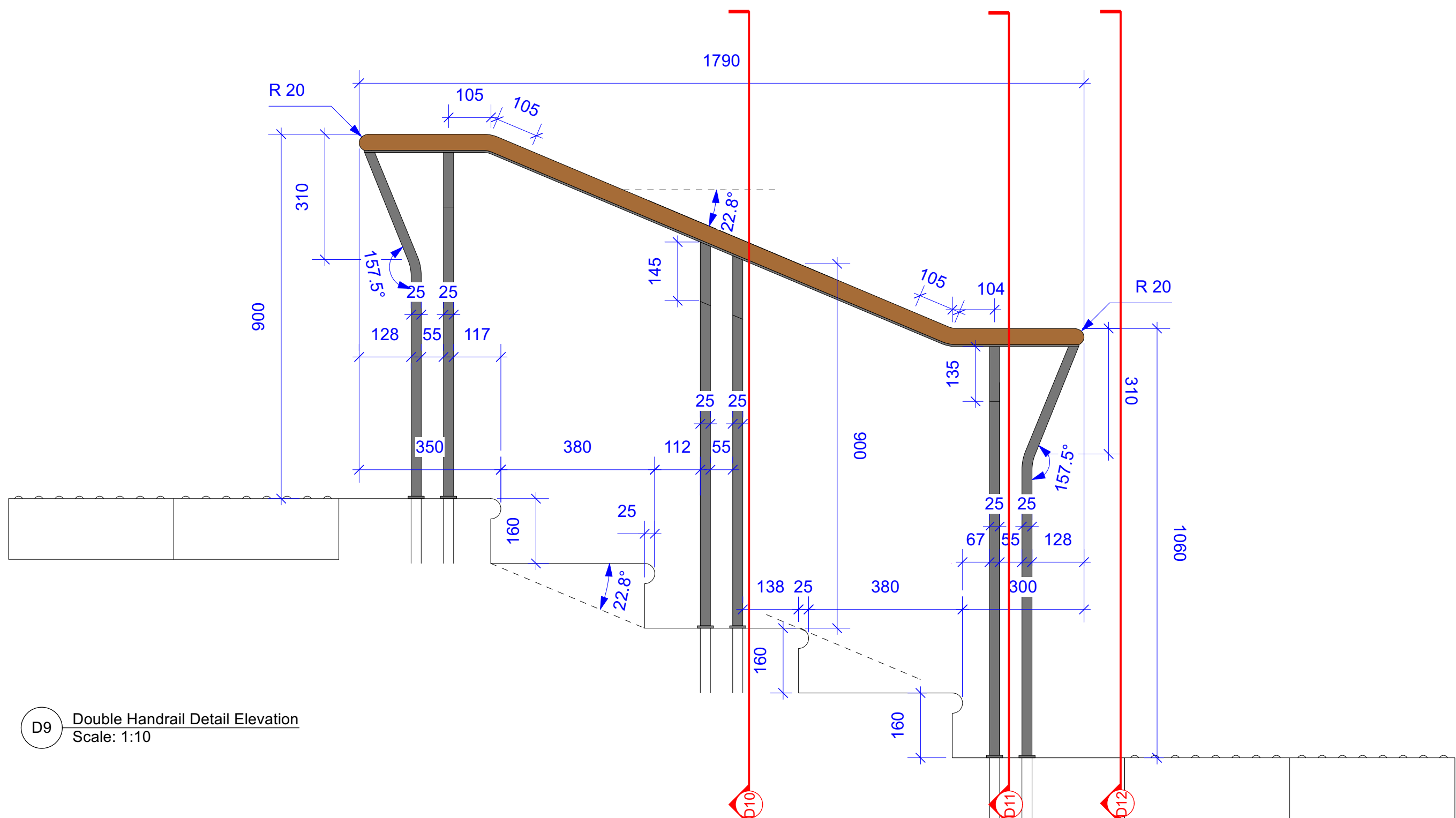
NOTE
Single handrails set at
angle to direction of steps
- section taken parallel
with handrail not steps

D2 Single Handrail Detail Elevation
Scale: 1:10

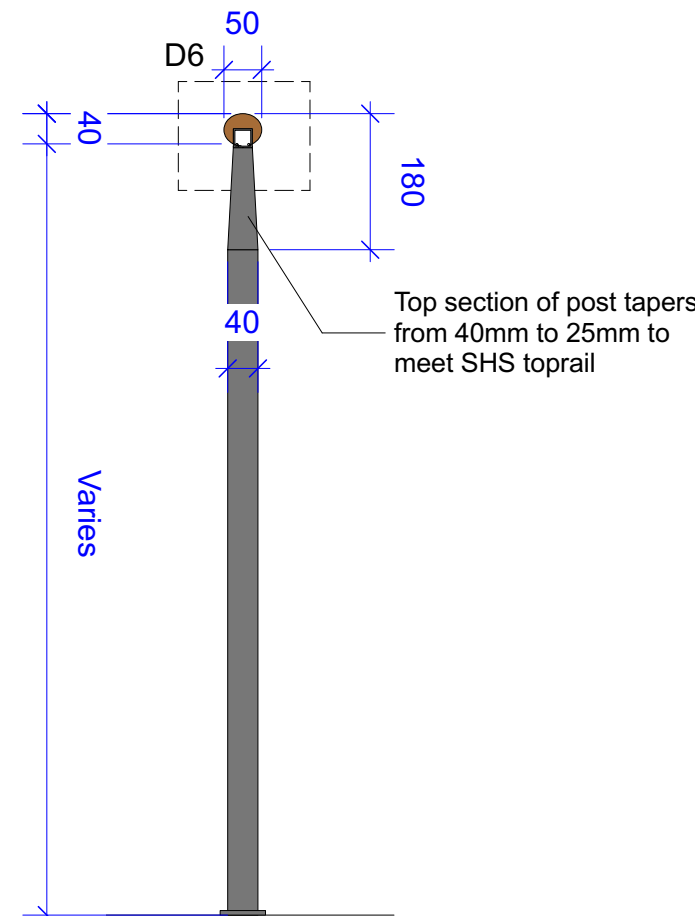


D8 Double Handrail Detail Plan View
Scale: 1:10

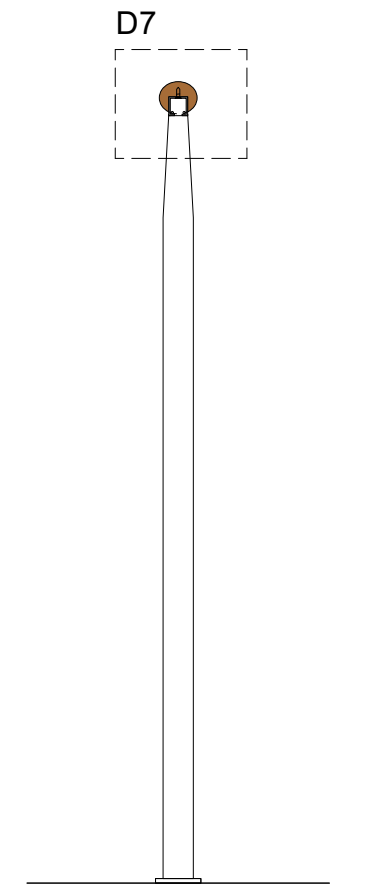
Refer to Arup drawings for position of
luminaires in handrail, and details and
specifications of lighting and cabling.



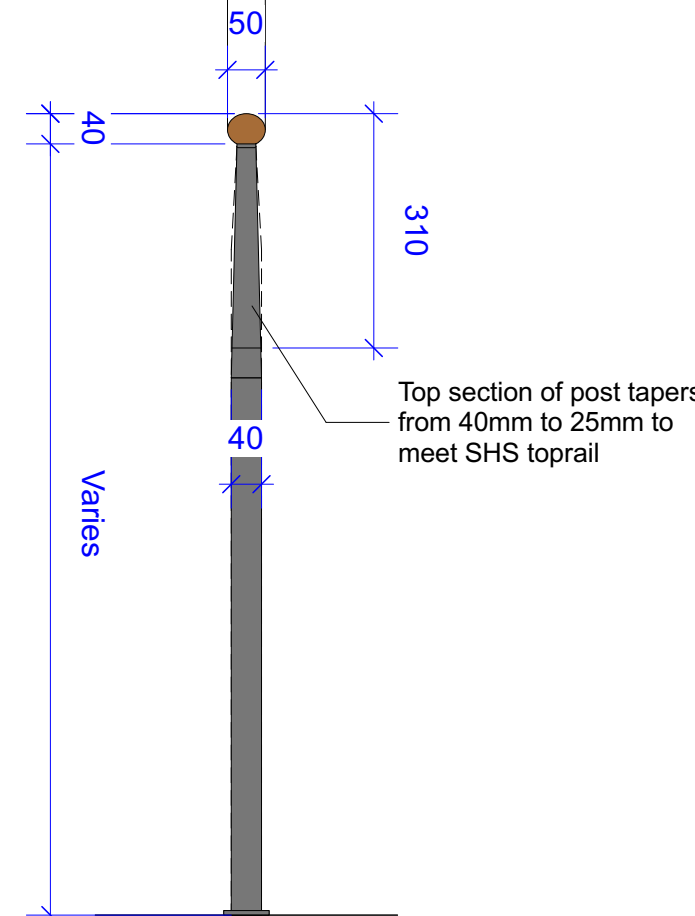
D9 Double Handrail Detail Elevation
Scale: 1:10



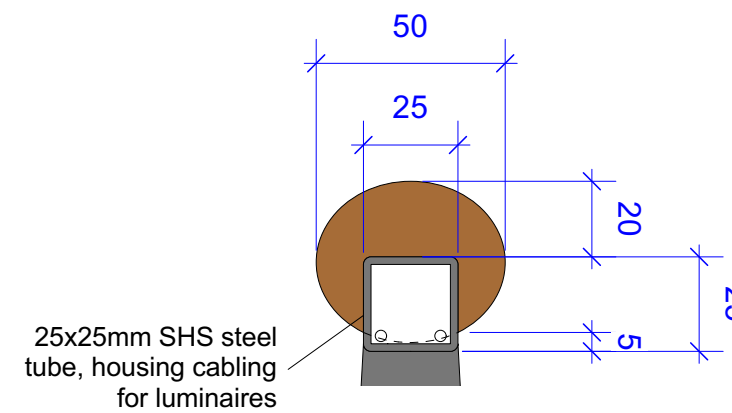
D3 Section Through Post
Scale: 1:10



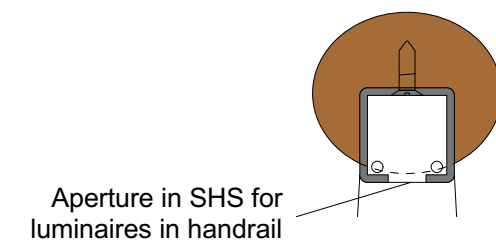
D4 Section Through Top Rail
Scale: 1:10



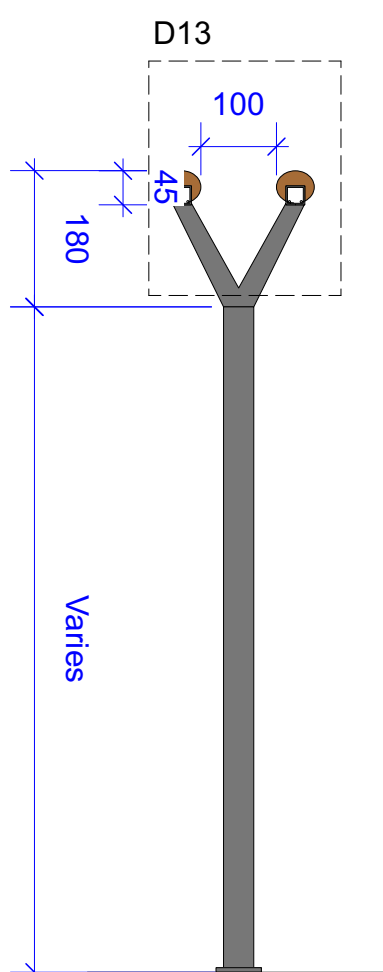
D5 Front Elevation
Scale: 1:10



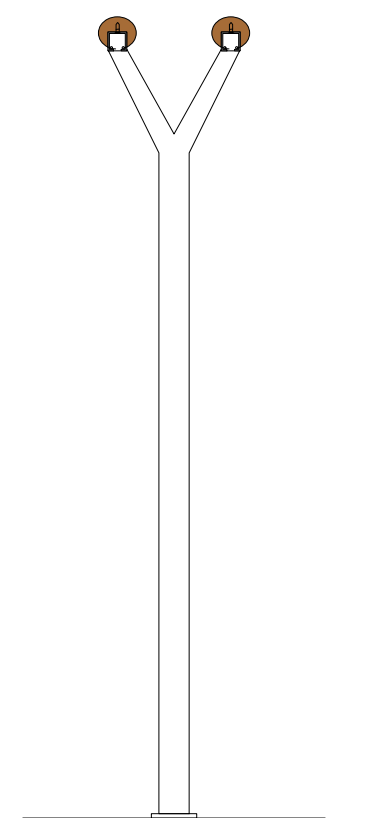
D6 Detail - Cabling in Top Rail
Scale: 1:10



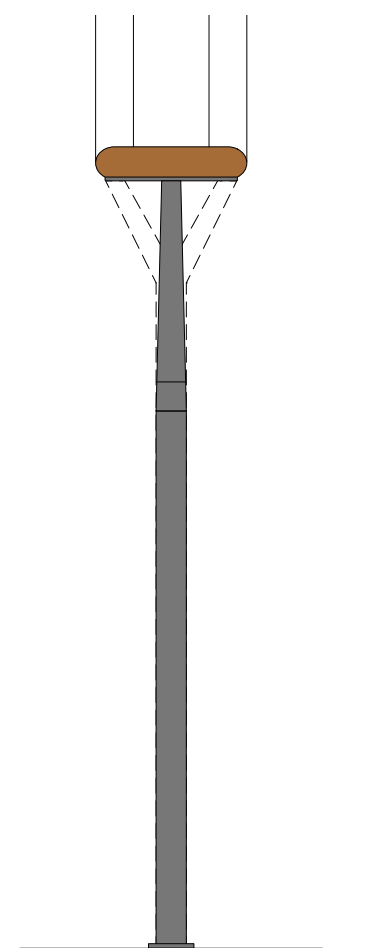
D7 Detail - Cabling & Luminaire
Scale: 1:10



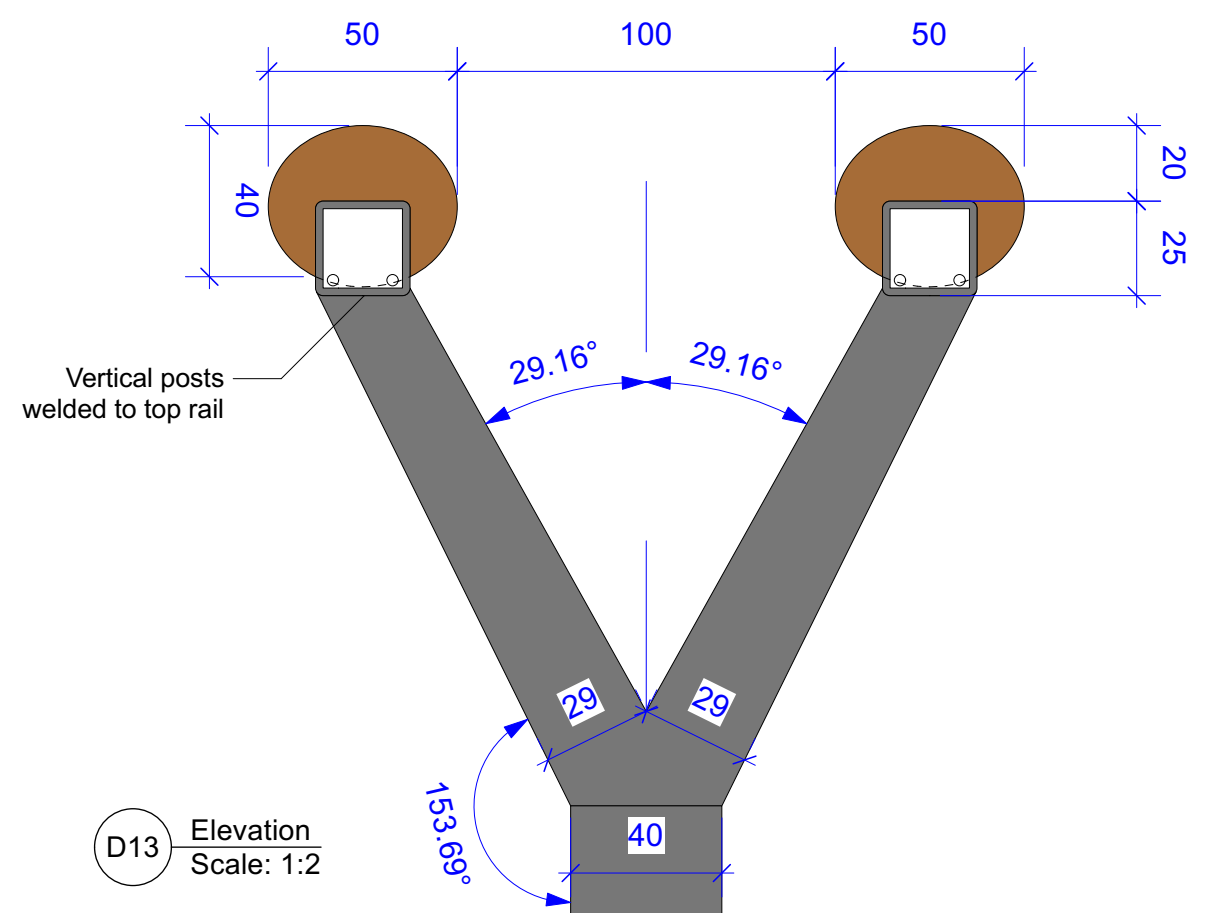
D10 Section Through Post
Scale: 1:10



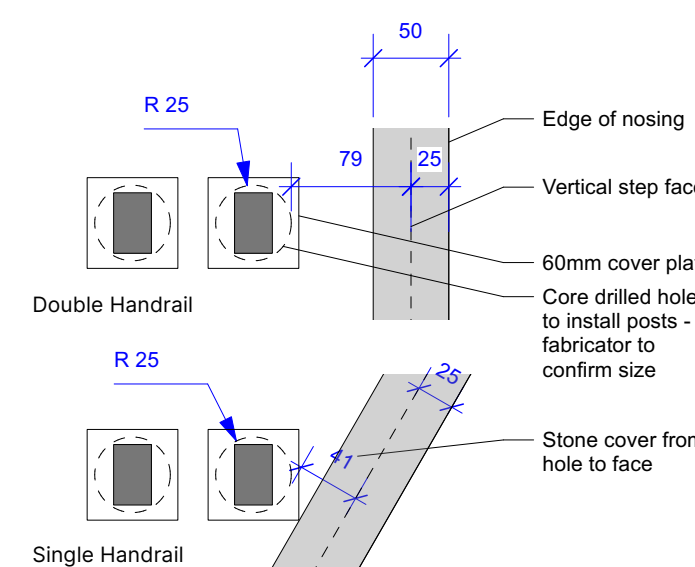
D11 Section Through Top Rail
Scale: 1:10



D12 Front Elevation
Scale: 1:10



D13 Elevation
Scale: 1:2



D14 Detail - Post and Nosing Positioning
Scale: 1:5

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NOTES:
1. All dimensions are in millimetres unless otherwise stated.
2. All dimensions are to be taken from the finished surface.
3. The dimensions of all materials must be checked on site before being used.
4. The drawing must be used in conjunction with the relevant specification sheet and other drawings.
5. Scale of construction and setting up to be agreed on site.

NOTE: Design subject to final approval of
manufacturers fabrication drawings,
all measurements to be checked on site
prior to ordering and fabrication.

Inclusive design: Design must be in accordance with Building
Regulations (E&W) Approved Documents M and K and BS 8300:2009,
highlight discrepancies identified.

1. Painted Stainless Steel Handrail
Main structure (including vertical posts) to be fabricated from forged
Grade 316 stainless steel solid bar with painted finish.
- Dimensions and profiles: as shown.
- Height (to upper surface of handrail): as shown.
- One vertical post on each handrail to have channel/aperture for
cabling to power integrated light fitting to handrail. To be fabricated
from two separate steel bars with routed channel welded together
and dressed to provide seamless finish.
- Joints: continuously welded. Welds to be filed and sanded to
smooth radius and finish.
- Painted finish to metalwork: refer to clause L37/1508
- Method of fixing: Handrail posts to be root fixed through stone step
units to concrete pavement foundation, using high strength epoxy
resin to supplier's fixing details. Allow for approx. 300mm deep core
drilling through stone steps and concrete foundation on site.
- Accessories: Footplate collars around posts to conceal core
drillholes, bonded to the finished surface. 80mm diam. disc 4mm
thick. Grade 316 stainless steel, painted finish as other elements.
Ensure core hole is no larger than collar.

2. Handrail / Top Rail
Handrail element to be 50mm x 40mm rounded / oval profile
hardwood timber. To be mechanically fixed to SHS stainless steel
tube, Grade 316 as shown.
- Timber element to be mechanically fixed to handrail frame using
concealed tamper proof fixings to underside of top rail at 300mm
centres.
- Timber to handrail: FSC certified quarter sawn oak hardwood
timber, to have special end profiles as shown on detail drawings.
- Timber to be finished with: Omnia Clear Lacquer system, including
Wood Protect, End Grain Sealer and Clear Exterior topcoats, to be
installed in line with supplier's recommendations.
- Handrail to have aperture to centre to accommodate light fitting /
housing and cabling route as shown.

3. LED Luminaire
To be integrated within handrail to provide downward illumination.
Refer to Arup drawings for further details of lighting and cabling
requirements.
Refer to Arup Public Realm Lighting Drawing
OTH-ARU-EE-ES-DWG-E-15401 and any associated
drawings and specifications.

Refer to specification clause L37 150A

For location of handrails refer to drawing:
OTH-PLA-EE-ES-DWG-L-4000

Revision Notes:

Amendments to handrail top and posts following review with
Topp&Co.
Preservative treatment updated.

C04	10/01/25	Handrail top and post amended	SC	MS
C03	29/10/24	Additional Dims Added	SC	MS
C02	03/10/24	Handrail Coordination	SC	MS
C01	01/04/21	Construction Issue	SR	MS
04	26/02/21	Stage 4 Issue (Re-Coordination)	SR	MS
03	08/01/21	Stage 4 Issue	SR	MS
02	06/09/19	Planning Issue	SR	MS
01	26/07/19	Stage 4 Issue	SR	MS

Revision	Date	Description	Drawn	Apprv.
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Client Manchester City Council

Project Our Town Hall

Drg Title Albert Square Entrance Handrail Details

Created on 19.07.19 Created by AD Approved by MS/KR

Scale A1 Workstage Stage 5
As shown A1 Workstage Stage 5

Drg No. OTH-PLA-EE-ES-DWG-L-7009 Suitability S4 Revision C04