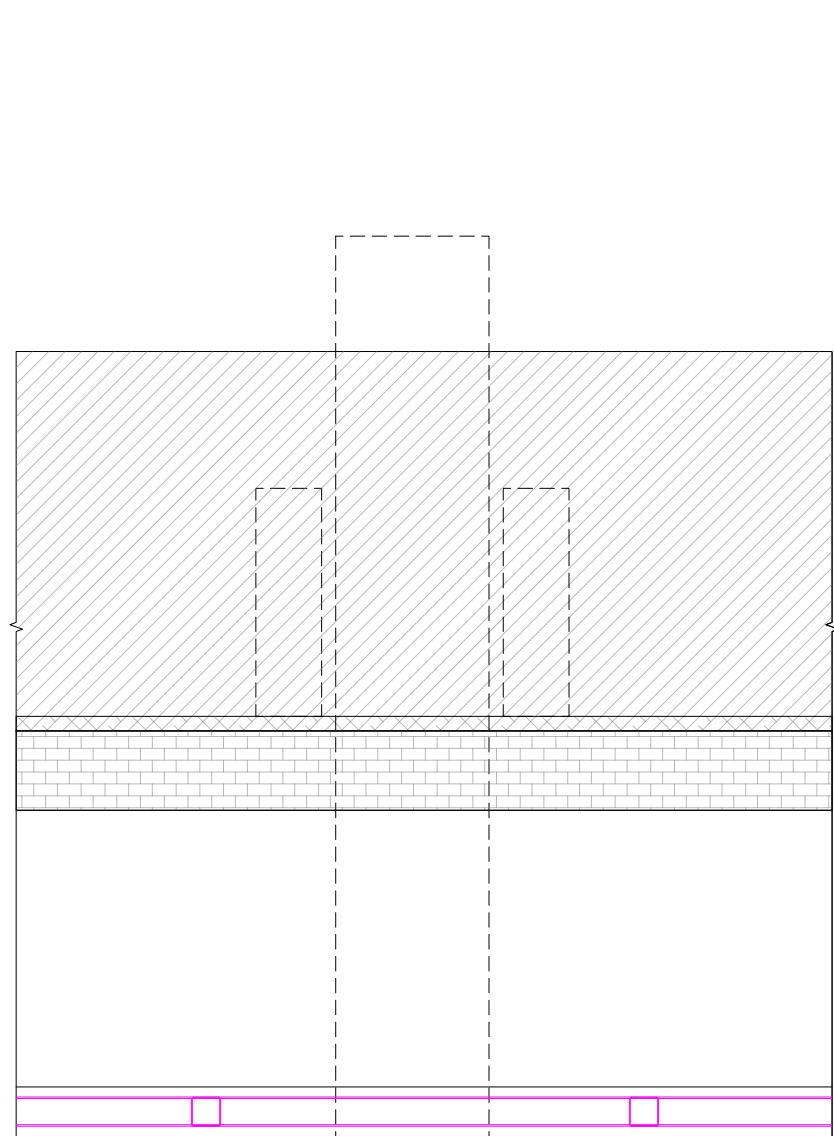
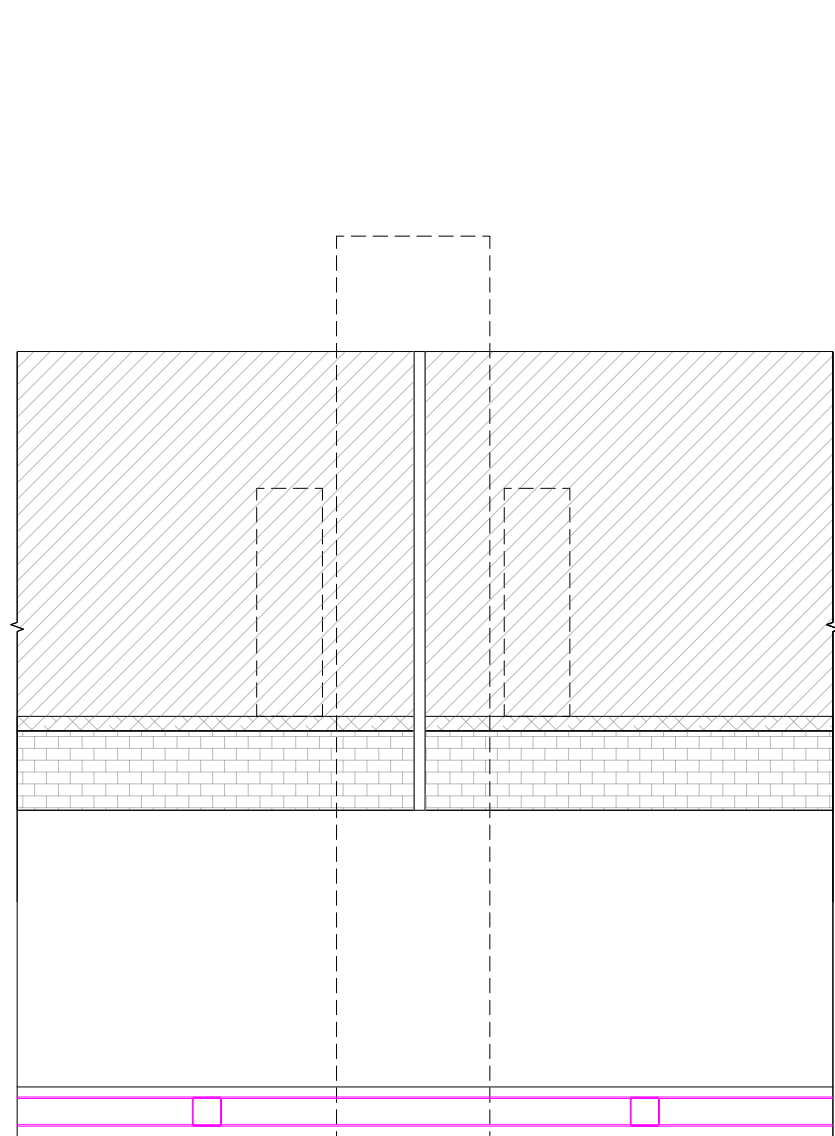
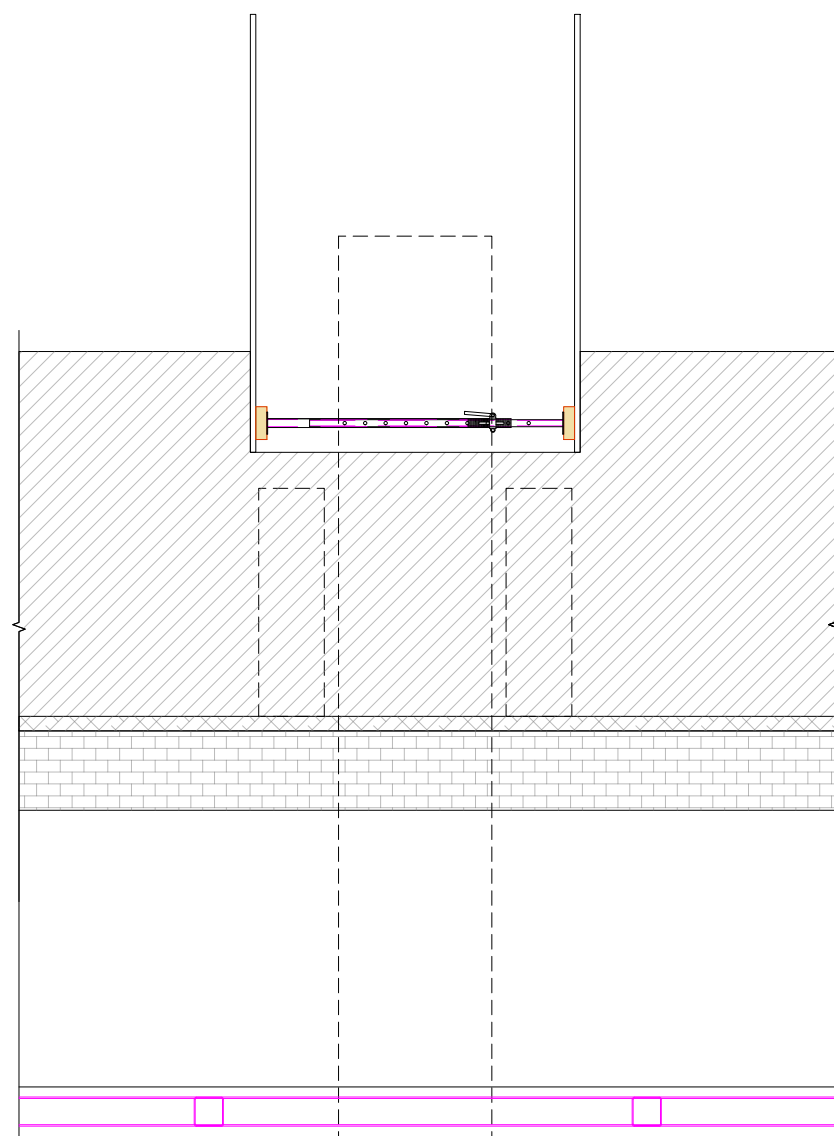




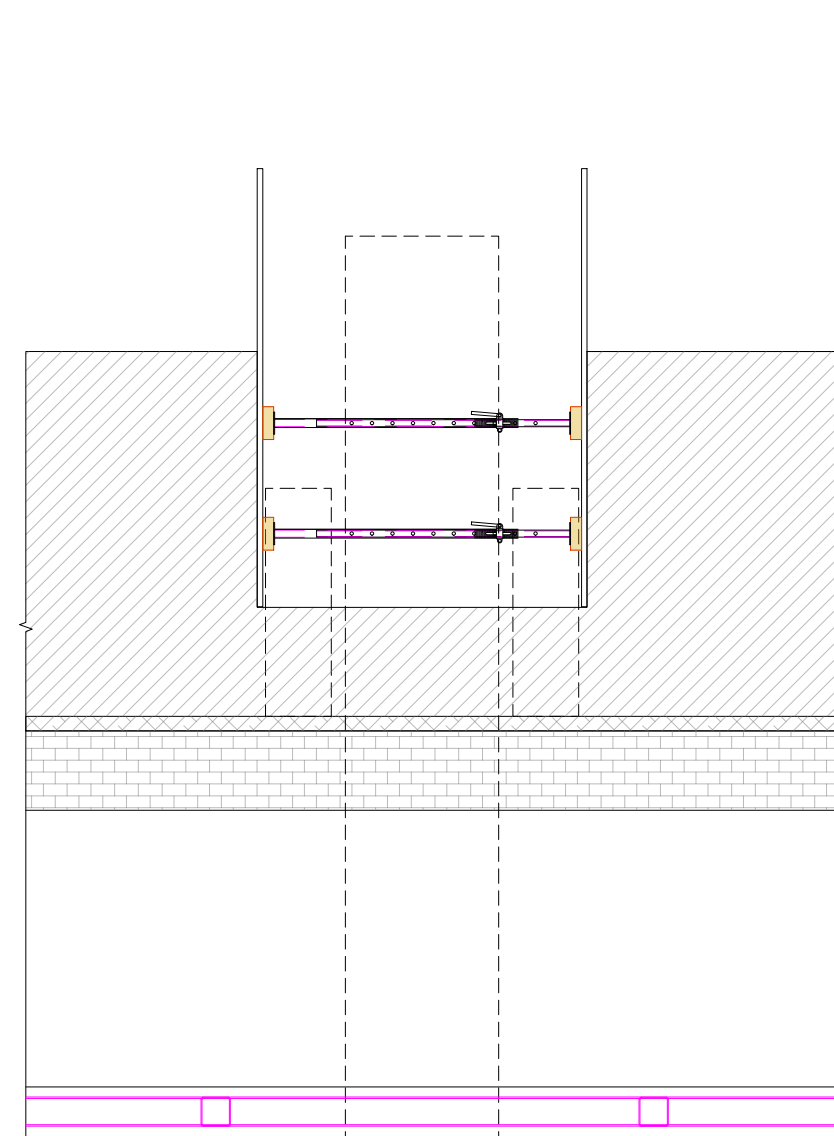
Stage 1 - Install High Level Propping to Arch Skewbacks



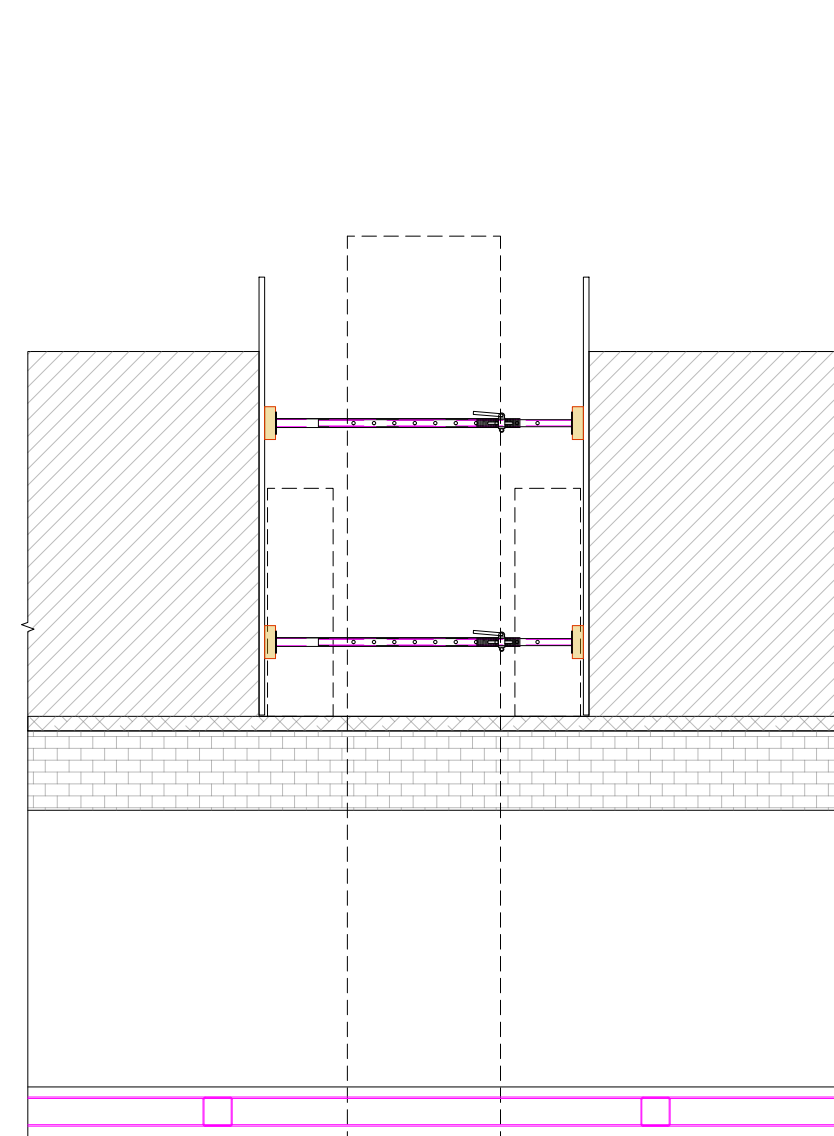
Stage 2 - Carry out intrusive sampling to confirm levels / type of backing at ope locations



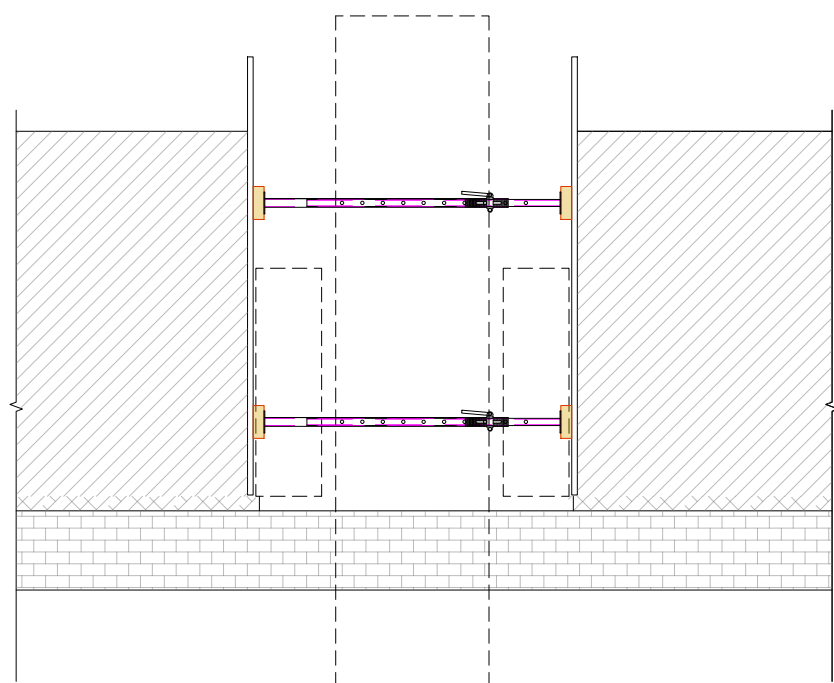
Stage 3 - Excavate 500mm typical over line of arch saddles. Pitch trench sheets and install upper water beam



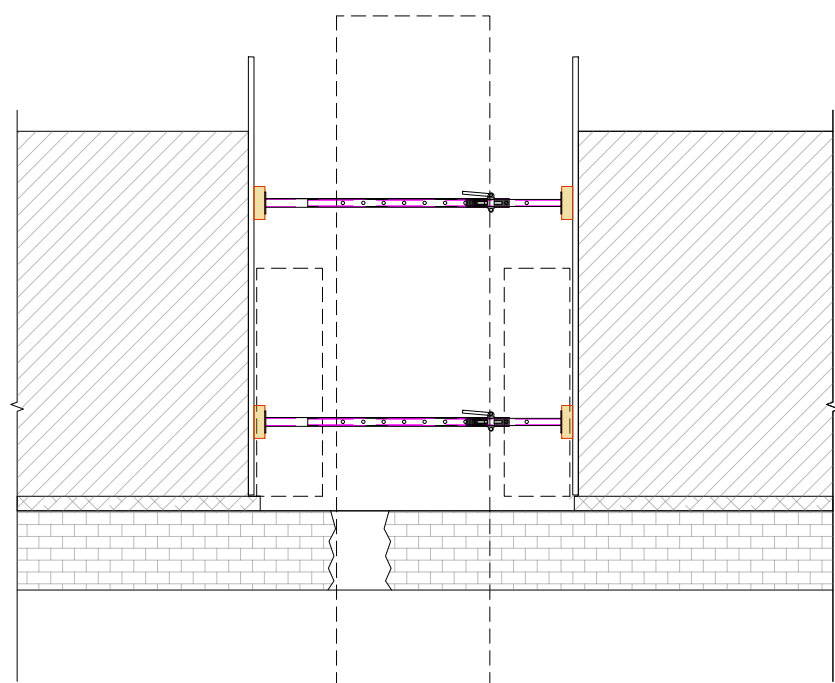
Stage 4 - Progress excavation between trench sheets, pushing sheets as works progress. Install lower water beam



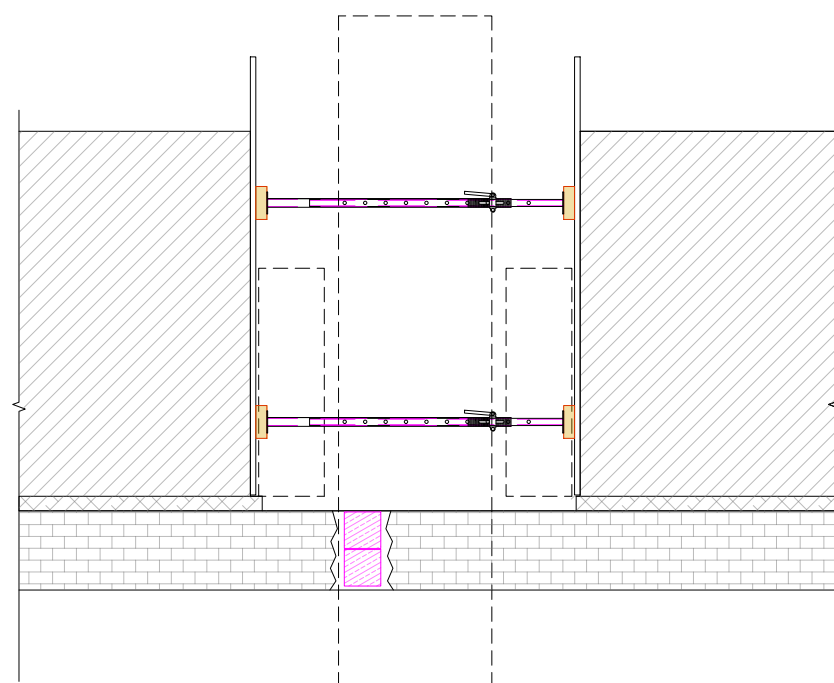
Stage 5 - Continue excavation / sheet push until dig reaches top of arch backing



Stage 6 - Carefully remove any backing material over brick arch

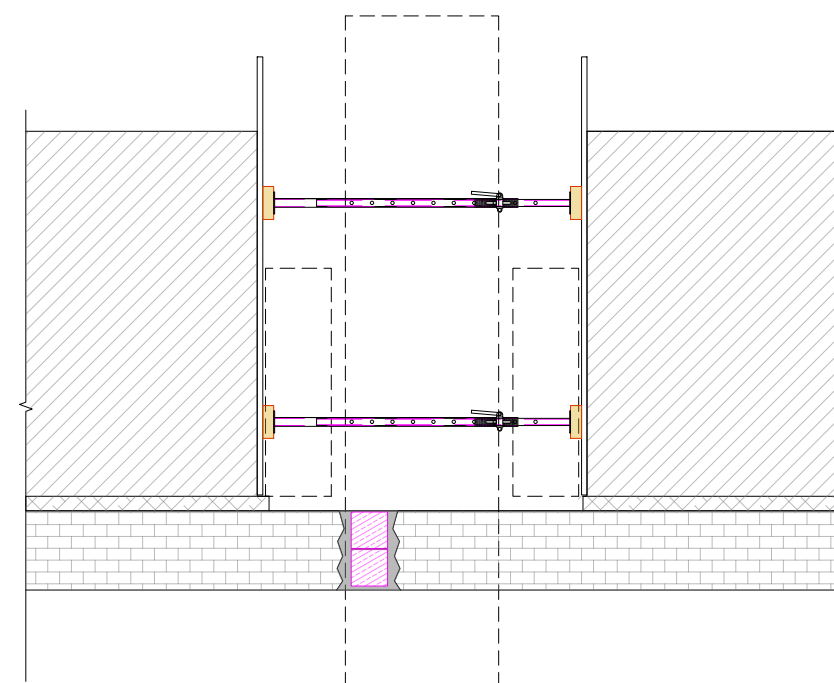


Stage 7 - Create local pocket in arch brickwork for Pynford stool.



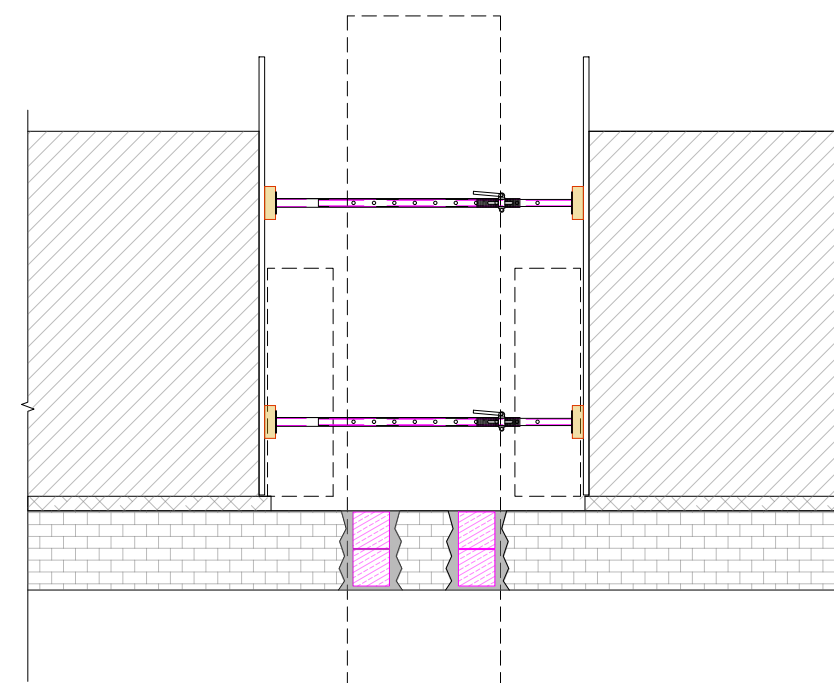
Stage 8 - Install Pynford stools and precast pads

Strike formwork and backfill between saddles leaving void over ope location



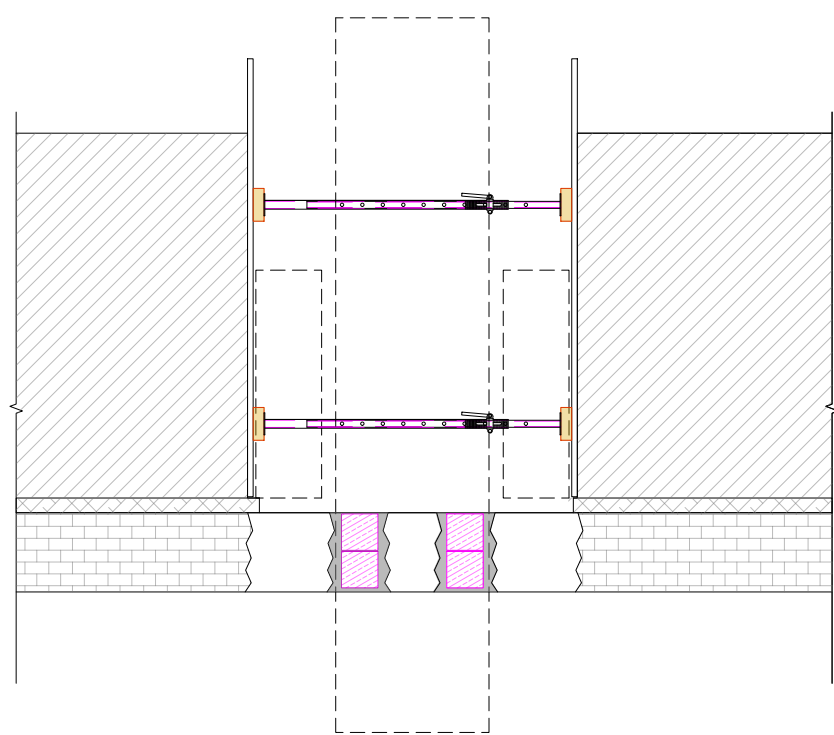
Stage 9 - Grout stool in place

Remove trench sheets and complete backfilling

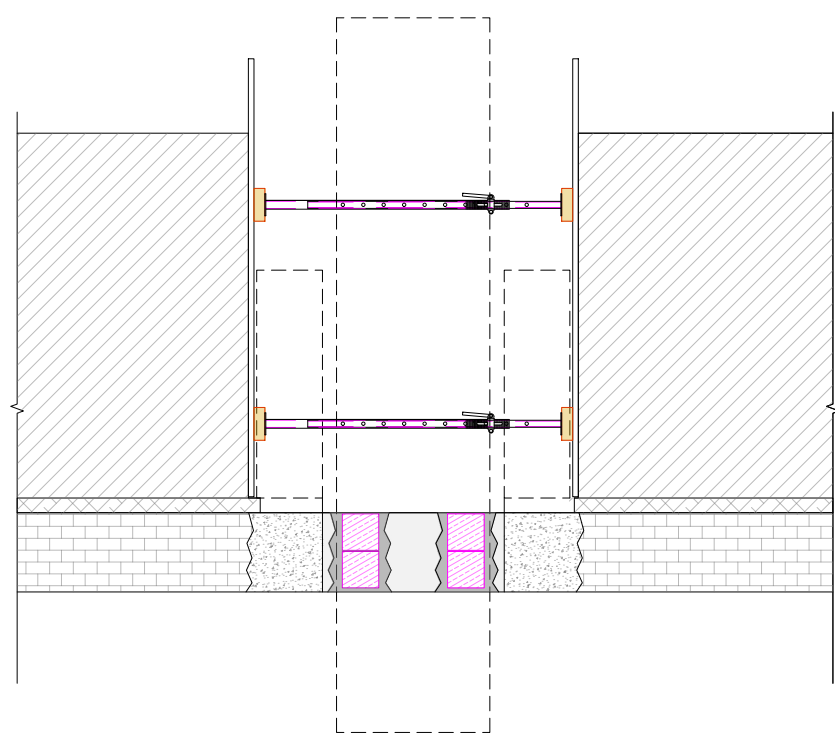


Stage 10 - Repeat steps 7 - 9 for each pair of stools within breakthrough

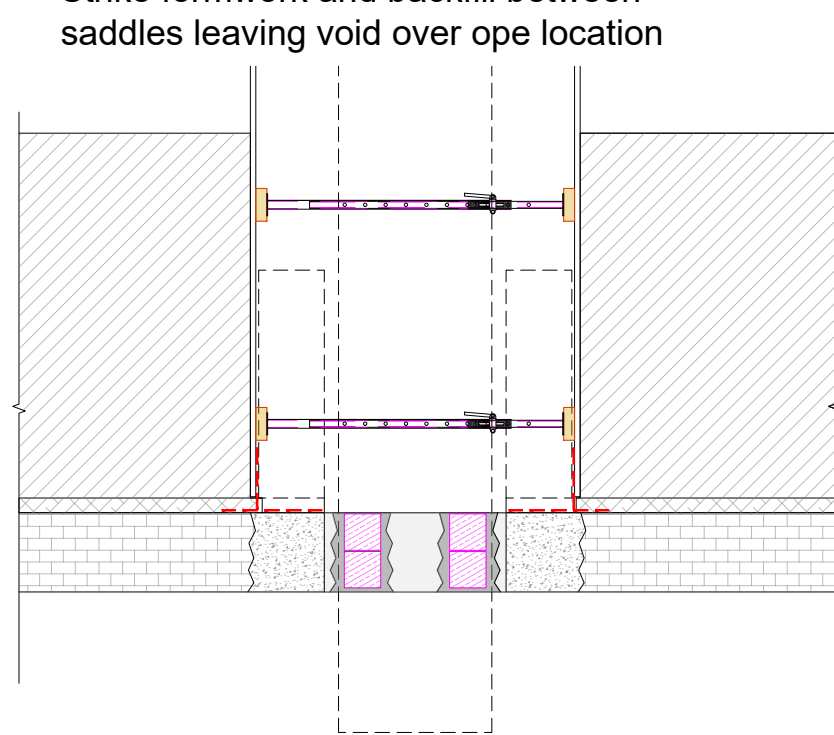
Batter excavation around column penetration location



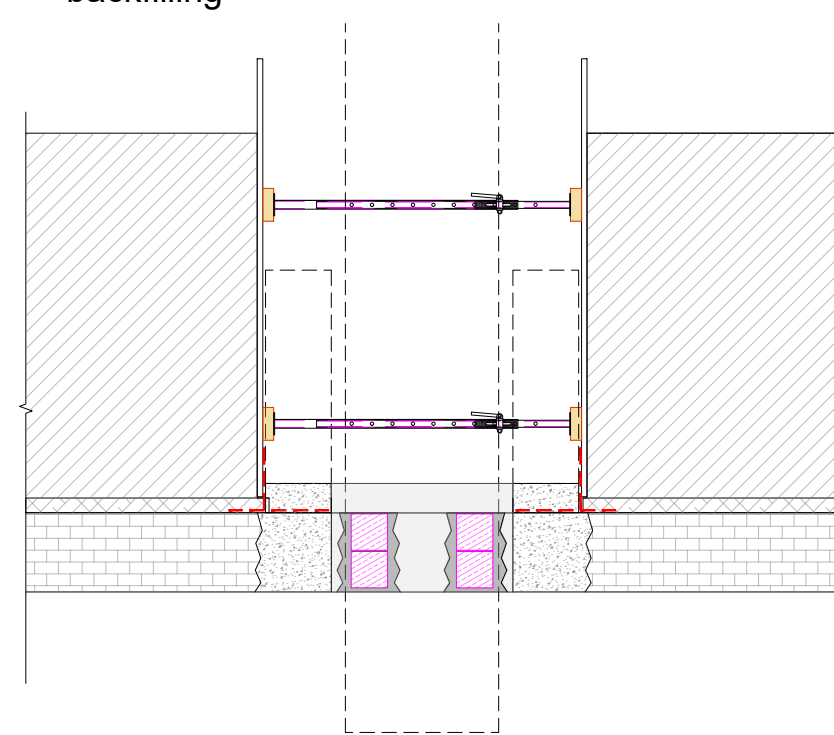
Stage 11 - Break out brickwork for ring beam



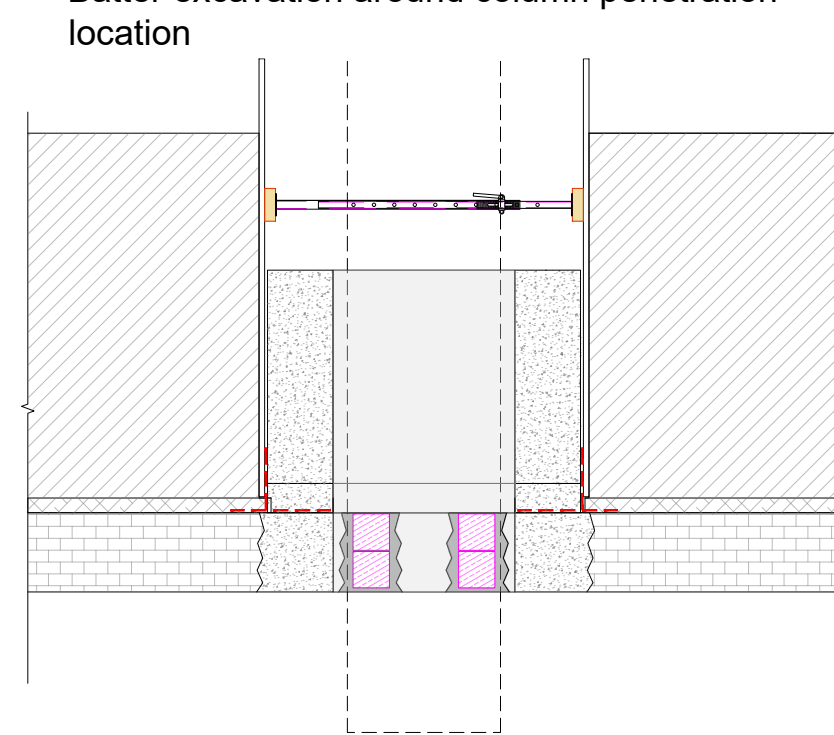
Stage 12 - Install reinforcement and formwork to arch ring beam and cast concrete



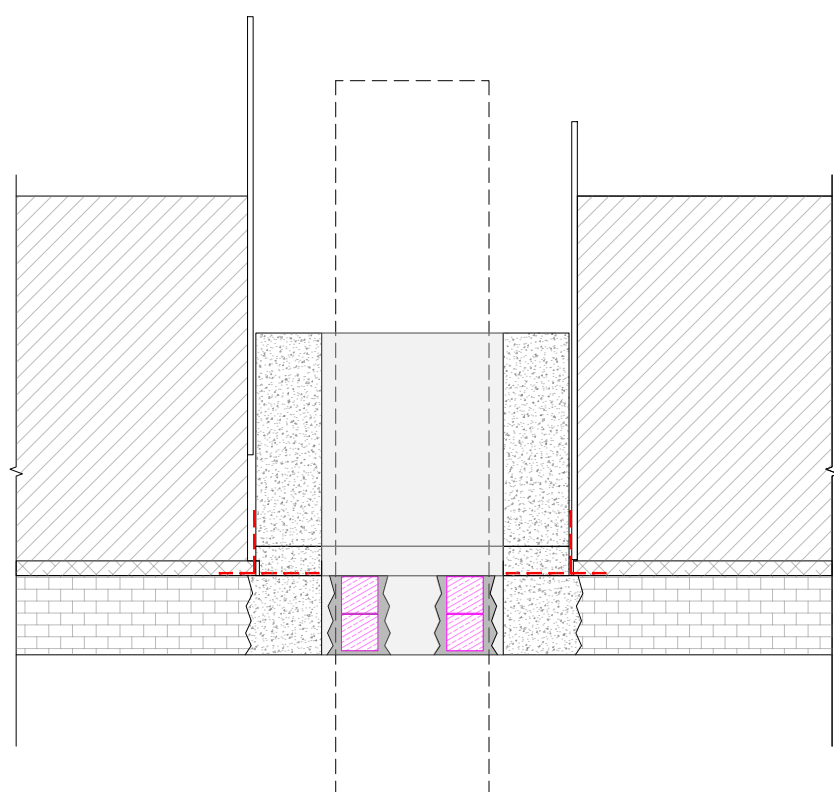
Stage 13 - Install waterproofing over top of arch to specialists design



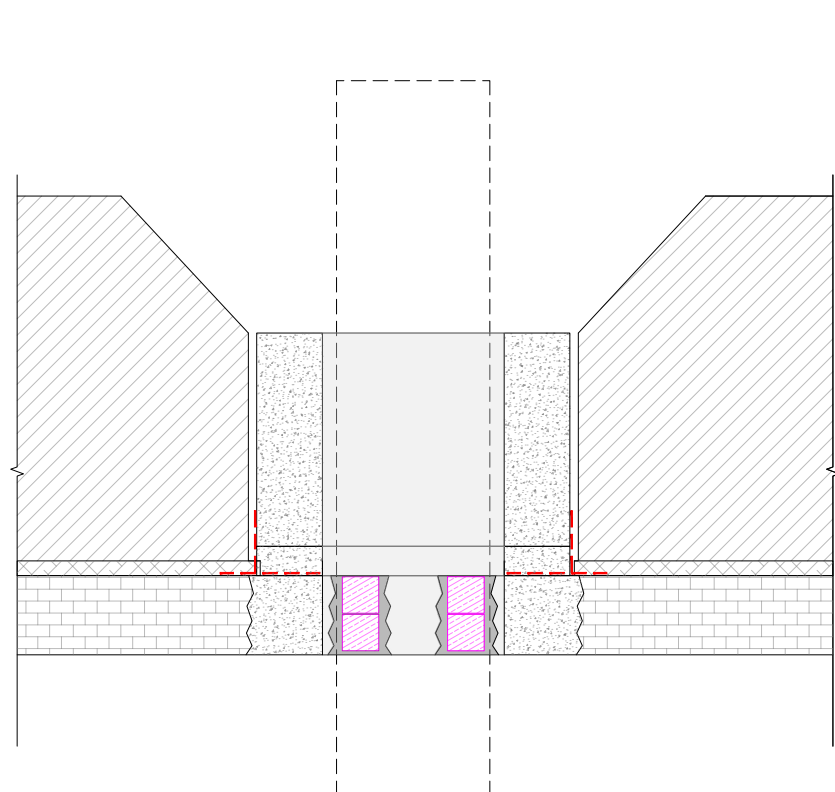
Stage 14 - Cast kicker to retaining structure over arch



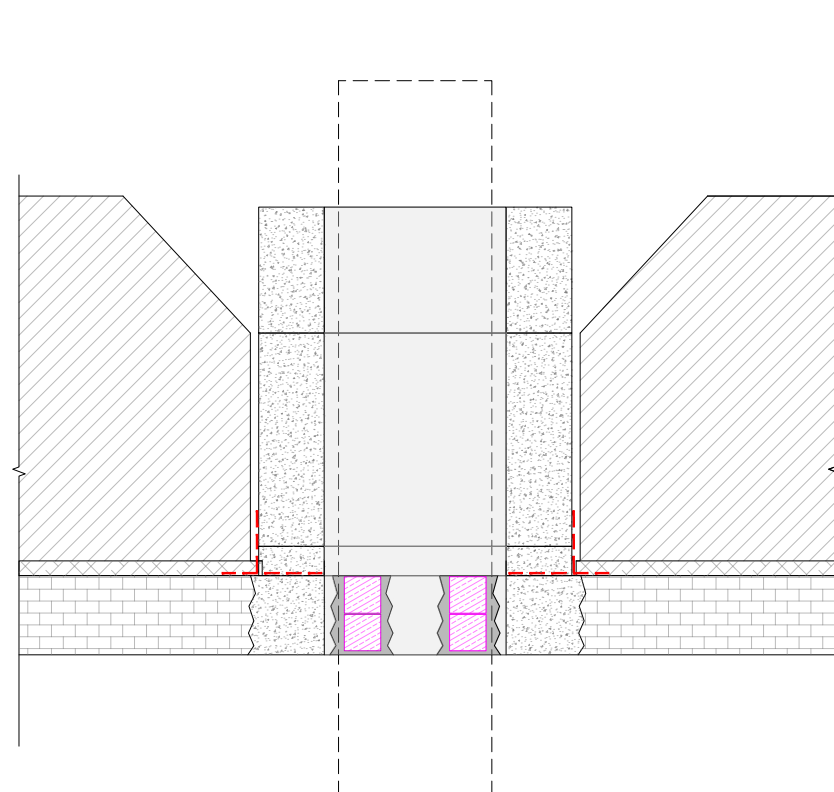
Stage 15 - Cast retaining structure up to level of kentledge saddle



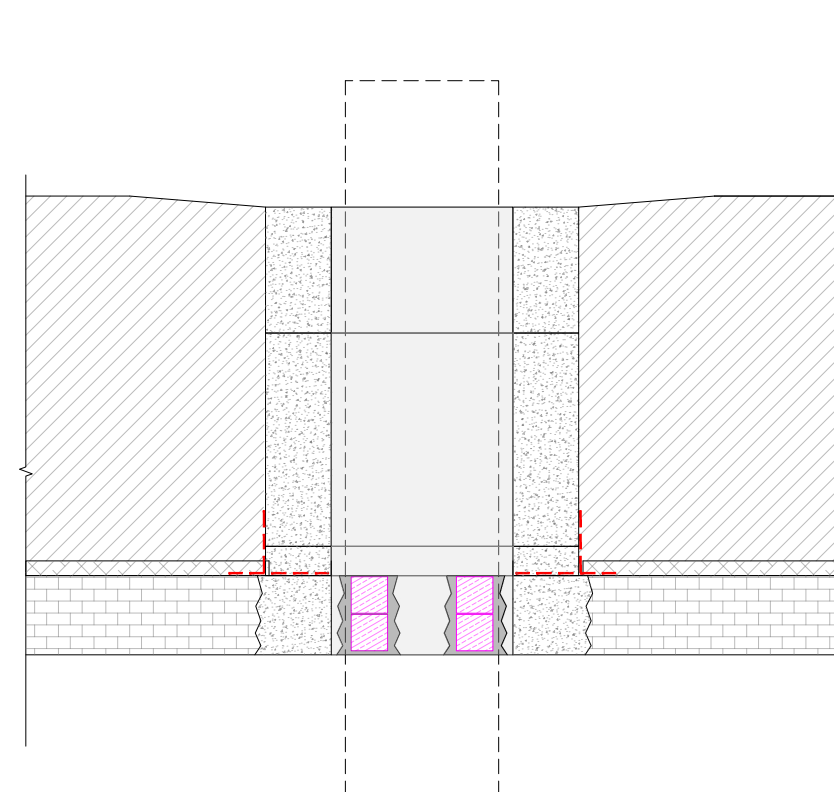
Stage 16 - Remove trench sheet box



Stage 17 - Batter ground as required



Stage 18 - Construct saddle kentledge



Stage 19 - Reinstatement service yard

|                                                                                                                                                                                                                                                                                  |                  |                                                            |        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------------------------------------------------|--------|
|                                                                                                                                                                                                                                                                                  |                  |                                                            |        |
| Revision Details                                                                                                                                                                                                                                                                 | By               | Date                                                       | Suffix |
| Drawing Status                                                                                                                                                                                                                                                                   |                  |                                                            |        |
| For Approval                                                                                                                                                                                                                                                                     |                  |                                                            |        |
| Job Title                                                                                                                                                                                                                                                                        |                  |                                                            |        |
| Viadux                                                                                                                                                                                                                                                                           |                  |                                                            |        |
| Drawing Title                                                                                                                                                                                                                                                                    |                  |                                                            |        |
| Tower Foundation Works<br>Column Penetrations<br><br>Work Sequence                                                                                                                                                                                                               |                  |                                                            |        |
| Client                                                                                                                                                                                                                                                                           |                  |                                                            |        |
| Mayo Civil Engineering Ltd.                                                                                                                                                                                                                                                      |                  |                                                            |        |
| Drawn<br>dg                                                                                                                                                                                                                                                                      | Checked<br>nk    |                                                            |        |
| Scale on A1<br>1:50                                                                                                                                                                                                                                                              | Date<br>30.03.21 |                                                            |        |
| <div><div><div><div>NK</div><div>Engineering</div></div></div><div><div>Dublin Office</div><div>Unit K6 Drinan Enterprise Centre,<br/>Swords, Co. Dublin, Ireland</div><div>London Office</div><div>4-8 Spicer Street, St. Albans, Herts,<br/>AL3 4PQ, England</div></div></div> |                  |                                                            |        |
| Tel (IRL) +353 (0)87 662 5183<br>Tel (UK) +44 (0)7455 819 361                                                                                                                                                                                                                    |                  | E-mail: info@nke.ie<br>E-mail: info@kealyengineering.co.uk |        |
| Drawing Number                                                                                                                                                                                                                                                                   |                  | Rev                                                        |        |
| NK-2586-300                                                                                                                                                                                                                                                                      |                  | 01                                                         |        |