

Construction and Inspection Checklist

We have prepared the following Construction and Inspection Checklist to provide a list of items covering the basics for your retaining wall project. It may also be used during the bidding process to ensure that all special provisions are complied with. Always check your local building codes, document any changes to the plan in writing and notify the wall design engineer with any concerns on water management.

Review Wall Design Plans For:

A. Compliance of Site to Latest Site Plan

- Does the site plan and wall layout coincide with current Site Conditions?
- Have all slopes above and below the walls been taken into account on the plans?
- Do the section drawings match the topography of the jobsite?
- Have site utilities been accounted for?
- Are there any recommendations for changes to the site plans to accommodate the wall?

B. Review of Reported Soil Conditions with On-Site Soils Engineer

- Are on-site soils consistent with soil parameters used in wall design?
- Does the site show indications of multiple types of soil, and has this been accounted for?
- Is there evidence of landfill areas on site?
- Has the owner contracted with a geotechnical engineering firm for overall / global stability outside of the wall design envelope (H tall by the greater of 2H or $H_e + L_{long}$)? See Figure 12 of the AB Spec Book.

C. Review of Above Grade Water Management with Project Civil Engineer

- Has surface runoff been accounted for in the site design?
- Will this site be irrigated?
- If storm drains become inoperable where will the water migrate to?
- During renovation of land will temporary drainage be an issue?

D. Review of Below Grade Water Management with Wall Design Engineer and General Contractor

- How and where will drain pipes be installed?
- Is it possible to vent drain pipes to daylight?
- Is venting to a storm drainage system an option?
- Will outlets be located and protected from blockage or damage?

E. Surcharges

- Have all surcharges been accounted for?
- During construction are there any temporary surcharges that should be accounted for?

Review Construction Details and Procedures:

- A. Mark station points for top and bottom of wall elevations and changes in wall direction.
- B. Identify changes in grid lengths, location of grids, and types of grid to be used.
- C. Determine and locate proper base size for each section of wall.
- D. Verify that the correct type and color of block has been ordered and delivered to the job.
- E. Verify that the foundation soil and retained soil conform to design requirements.
- F. Verify that infill soil meets design standards.
- G. Verify that compaction testing will be performed, who is responsible, at what intervals of locations along the wall, and what coordination will be required.
- H. Determine what method will be used to verify construction materials, methods, and sequence of construction. (i.e. written documentation of as built, full time inspector on site, photographic documentation.)
- I. Wall contractor is responsible for quality control of wall installation per the approved plans. The owner or owner's representative is responsible for engineering and quality assurance of the project.