

Quality Control for High Reinforced Earth Wall Erection

Day:	Date:	Section:	By:
Col No:	to Col No:	Row No:	

Foundation Preparation

- R.E. wall area excavated to proper elevation. Plan elev. _____.
Actual elev. _____.
- Area proof rolled per specifications to density suitable for bearing pressure shown on plans
- Verify bearing pressure of _____ as shown on the plans. Actual bearing pressure _____. Results approved by _____.
- Unsuitable material has been removed and replaced.

Drainage System

- Drainage system installed as per plans.

Leveling Pad

- Leveling pad area properly excavated.
- Leveling pad set to the proper vertical elevation and horizontal alignment per plans (elevation tolerances +3 mm to -6 mm). Checked by (circle one) Survey / Level .
- Leveling pad cured a minimum of 24 hours.
- Horizontal gap between step-up pads is 300 mm.

Panel Erection

- Correct panels used. Check precaster identification of panels (e.g., AL-4-R6-1.05) (Panel type A, left cut, 4 tie straps; R6 reinforcement; 1.05 m wide).
- Correct panels bracing (initial course only).
- Tight clamps.
- Correct batter. ____ inches in 4 feet.
- Batter wooden wedges placed correctly.
- Correct joint spacing 19 mm.
- Verify vertical and horizontal alignment every 10 panels.
- Wooden wedges removed after full erection of the upper panel.
- Verify wall vertical alignment for each additional row of panels.

Joint Materials

- Filter fabric placed correctly to cover horizontal and vertical joints.
- Bearing pads placed in panel grooves.

Reinforcing strips

- Reinforcing strips are properly galvanized.
- Reinforcing strips placed are of correct length and number per plans.
- Straps are placed perpendicular to the wall or skewed per plans.
- Correct connections placement of bolt, washer and nut.
- Correct length of splices.

Backfilling

- Approved select backfill material. Type of material used _____.
- See Special Provisions for backfill testing frequency.
- Loose lift thickness not to exceed 250 mm .
- Compacted backfill is 50 mm above tie strips level.
- Proper equipment used for compaction.
- Backfill compacted to 95% of maximum density no less than 2 % points of optimum moisture.
- Backfill to slope 300 mm behind first layer of each row of panels.
- Sloped void behind panels filled after placement of backfill on first layer of straps for each row.
- Compaction within 900 mm of the back face achieved by three passes of a lightweight mechanical tamper.
- Compaction test performed at each lift and at every 15 m length of wall.
- Backfill placed parallel to the wall panels.
- Backfill placed with toe of backfill pile 1.0 m to 1.2 m from the panels.
- End of day backfill layer graded to slope away from the back of the panels.
Backfill in front of the wall placed before the erection of the fifth row panels.
- If needed, second load of backfill to cover straps is placed after first load has been spread.
- Berm placed at toe of wall prior to 20 feet of wall height installed.

General Comments

Note: Inspector should inspect all operations on this check list performed on day of Inspection.