Allan Block – Typical Details

Typical Reinforced Wall Section
Typical Gravity Wall Section

- ALLAN BLOCK WALL BATTER FROM VERTICAL
- FILTER FABRIC TO BE PLACED BETWEEN TOPSOIL AND WALL ROCK
- ALLAN BLOCK UNIT
- 12 in (300 mm)
- RETAINED SOIL
- WELL-GRADED GRANULAR WALL ROCK 0.25 in TO 1.5 in (5 mm TO 38 mm) LESS THAN 10% FINES
- 4 in (100 mm) TOE DRAIN PIPE VENTED TO DAYLIGHT

EXPOSED WALL HEIGHT
FINISHED GRADE
EMBEDMENT DEPTH

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### Inside Corner Application

#### Design Information

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<th>Designed By:</th>
<th>Title:</th>
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<tbody>
<tr>
<td>INDIVIDUAL APPLICATION</td>
<td>INSIDE CORNER APPLICATION</td>
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#### Notes

- **Subsequent GeoGrid Layers Should Extend**
  - One Quarter of the Wall Height Past the Corner Location in Alternate Directions

- **Principal Reinforcement Direction**
  - 12 in (300 mm)
  - WELL-GRATED GRANULAR WALL ROCK 0.25 in TO 1.5 in (6 mm TO 38 mm) LESS THAN 10% FINES

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Outside Corner Application

GEODRIG LAYER MUST BE INSTALLED INTO THE OUTSIDE CORNER WITH THE PRINCIPAL DIRECTION RUNNING PERPENDICULAR TO THE WALL FACE.

ADDITIONAL WALL ROCK TO EXTEND H/2

PRINCIPAL REINFORCEMENT DIRECTION

GEODRIG MUST BE PLACED ONE COURSE ABOVE OR BELOW ADJACENT LAYER ON THE RETURN SIDE OF THE CORNER TO ELIMINATE GEODRIG CONTACT.

H/2

WALL ROCK DEPTH VARIES IN CORNER

PRINCIPAL REINFORCEMENT DIRECTION

OUTSIDE CORNER APPLICATION

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Inside Curve Application

Inside Curve Application

WELL-GRANULATED WALL
ROCK 0.25 in TO 1.5 in
(5 mm TO 38 mm)
LESS THAN 10% FINES

12 in (300 mm)

ADDITIONAL REINFORCEMENT LAYER PLACED NEXT COURSE ABOVE SPECIFIED REINFORCEMENT ELEVATION TO ELIMINATE GAPS

SPECFIED REINFORCEMENT ELEVATION

TRIM REINFORCEMENT TO FIT CURVE; MINIMUM GRID LENGTH TO MATCH DESIGN LENGTH

PRINCIPAL REINFORCEMENT DIRECTION

ALLAN BLOCK UNIT

Designed By: Title: INSIDE CURVE APPLICATION Date:

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Outside Curve Application

WALL ROCK DEPTH VARIES IN CURVE

PRINCIPAL REINFORCEMENT DIRECTION

ALLAN BLOCK UNIT WITH BACK WINGS REMOVED

3 in (75 mm) OF SOIL REQUIRED BETWEEN OVERLAPPING REINFORCEMENT TO AVOID GEOGRID CONTACT

ADDITIONAL WALL ROCK TO EXTEND H/2

TRIM REINFORCEMENT TO FIT CURVE, MINIMUM GRID LENGTH TO MATCH DESIGN LENGTH

H/2

OUTSIDE CURVE APPLICATION

Designed By: 

Title: 

Date:

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(project details)

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Step Up at Base

ALLAN BLOCK UNIT

WELL-GRADED GRANULAR WALL ROCK 0.25 in TO 1.5 in (5 mm TO 38 mm) LESS THAN 10% FINES

MINIMUM OF ONE BURIED BLOCK EXTENDED INTO SLOPE TO PREVENT EROSION

### STEP UP AT BASE

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Terraced Wall Section

* REFER TO DESIGN DETAILS: ALLAN BLOCK TYPICAL REINFORCED WALL APPLICATION FOR ALL OTHER NOTES, DETAILS AND SPECIFICATIONS.

**Terraced Wall Section**

- Upper Allan Block Terraced Wall or Structure
- Well-Graded Angular Wall Rock: 0.25 in to 1.0 in (5 mm to 38 mm), Less Than 10% Finer
- Filter Fabric to Be Placed Between Topsoil and Wall Rock
- 4 in (100 mm) Heel Drain Pipe Vented to Daylight
- 4 in (100 mm) Toe Drain Pipe Vented to Daylight
- The Entire Area Below the Upper Terrace or Structure Must Be Compacted to a Minimum of 95% Standard Proctor to Minimize Potential Settlement and Must Meet All Requirements of the Engineer of Record

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Allen block Step up Finishing Details

AB CAP UNIT

ALLAN BLOCK UNIT

AB LITE STONES UNIT

AB CAP UNIT

AB CAP UNITS FIELD CUT AT 45° TO FORM CORNER

Allan Block Corner Unit

AB TYPICAL SECTION – STEP UPS WITH AB LITE STONE

AB TYPICAL SECTION – FULL COURSE STEP UPS WITH AB CORNER BLOCK

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