**Allan Block – Drainage Details**

**Alternate Drain Wall Section**

- **4 in (100 mm) TOE DRAIN PIPE**
- **VENTED THROUGH THE FACE OF THE WALL AT THE LOWEST POSSIBLE ELEVATION ON 50 ft (15 m) CENTERS MAXIMUM**

**Refer to Design Details:** Allan Block

- **Typical Reinforced Wall Application** for all other notes, details and specifications.

**Finished Grade to Slope Away From the Wall Face with Impermeable Soil or Surface**

- **Low Permeability Gravel Material** placed in cores of the Allan Block as well as in the infill soil.

**WELL-GRATED GRANULAR WALL ROCK 0.25 in to 1.5 in (5 mm to 38 mm) LESS THAN 10% FINES**

**Finished Grade Below Wall**

- **4 in (100 mm) HEEL DRAIN PIPE VENTED TO DAYLIGHT**
- **CONCRETE COLLAR**
- **RODENT SCREEN**

**Filter Fabric to be placed between topsoil and wall rock**

*CUT NOTCH IN EDGES OF ALLAN BLOCK TO ALLOW FOR DRAIN PIPE, RODENT SCREEN AS REQUIRED.*

The purpose of this drawing is for preliminary design only. This drawing should not be used for final design or construction without the certification of a professional engineer registered in the state in which the wall will be built. The accuracy and use of details contained in this document are the sole responsibility of the user. The user must verify each detail for accuracy as they pertain to their particular project.
Pavement and Earth Lined Swales

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

IMPERMEABLE CONCRETE OR ASPHALT LINING
8 in (200 mm) THICK

FILTER FABRIC TO BE PLACED BETWEEN TOPSOIL AND WALL ROCK

4 ft (120 mm)
VEGETATION FOR EROSION CONTROL

3 ft (1 m)

8 in (200 mm)
MINIMUM

ALLAN BLOCK UNIT

PAVEMENT LINED SWALE

8 in (200 mm)
MINIMUM

ALLAN BLOCK UNIT

EARTH LINED SWALE

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Chimney Application

**CHIMNEY APPLICATION**

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

**Designed By:**

**Title:**

**Checked By:**

**Scale:**

**NOT TO SCALE**

**Date:**

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Double-Wide Gravity Wall

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

- ALLAN BLOCK UNIT
- FILTER FABRIC TO BE PLACED BETWEEN TOPSOIL AND WALL ROCK
- INVERTED ALLAN BLOCK UNIT INSTALLED BACK-TO-BACK OF THE EXTERIOR COLUMN OF ALLAN BLOCK
- GEOGRID PLACED BETWEEN BOTH COLUMNS OF BLOCK

Designed By: Title: Date:

Checked By: Scale: NOT TO SCALE

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WESTBROOK CONCRETE BLOCK

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info@westbrookblock.com
Masonry Wall Application

- All specifications with regards to compaction and drainage are applicable to the Allan Block Masonry reinforced cross section.

- Masonry design and construction requires site specific analysis for every wall case. Contact Allen Block Corporation or a qualified local engineer for assistance.

![Diagram of masonry wall application with details on placement of filter fabric, stem reinforcement, and continuous rebars.]

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Nail Connection Detail

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

12 in (300 mm) MINIMUM

WELL GRADED GRANULAR WALL ROCK; 0.25 in TO 1.5 in (6 mm to 38 mm), LESS THAN 10% FINES

3 BLOCK SPACING MAXIMUM

ALLAN BLOCK UNIT

PRIMARY AND SECONDARY SHOTCRETE FACE

ENGINEER OF RECORD TO SPECIFY LENGTH, SPACING, AND TYPE OF GEORGRID

NAIL CONNECTION DETAIL

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Designed By:  
Title:  
Date:

Checked By:  
Scale: NOT TO SCALE  
Project No:

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Anchor Connection Detail

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

** WALL ROCK MUST BE
  PLACED IN CORES AND
  ABOVE LOWER PORTION
  OF GEORGRID WRAP PRIOR
  TO RETURNING TO THE
  WALL FACE. PULL TIGHT
  AND PLACE NEXT COURSE
  ABOVE TO SECURE.

12 in (300 mm)
MINIMUM

ALLAN BLOCK
UNIT

LOOP GEORGRID AND
RETURN TO WALL FACE
TO SECURE CONNECTION
TO SPREADER PIPE

WELL-GRADIENT GRANULAR WALL ROCK
0.25 in TO 1.5 in (6 mm TO 38 mm)
WITH LESS THAN 10% FINES

EARTH ANCHOR OR SOIL
NAIL (DESIGNED BY OTHERS)

ALLOW FOR A SPREADER PIPE
TO CREATE A CONTINUOUS SPAN
FOR GEORGRID CONNECTION
(DESIGNED BY OTHERS)

EXPOSED VERTICAL SHEAR FACE:
ROCK, SHOTCRETE OR SOIL

DESIGNED BY:  

Title: 

ANCHOR CONNECTION DETAIL

Date: 

CHECKED BY:  

Scale: NOT TO SCALE

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PROJECT NO:

DRAWING NO:
Allan Block Step Finishing Details

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

PAVERS REQUIRE REMOVING TOP LIP

PAVERS

EXPANSION JOINT

W/ CAULKING

CAULKING

EXPANSION JOINT

COMPACTED GRANULAR FILL

AB CAPSTONE

EXPANSION JOINT

W/ CAULKING

COMPACTED GRANULAR FILL

EXPANSION JOINT

W/ CAULKING

COMPACTED GRANULAR FILL

4000 PSI CONCRETE

W/ FIBER MESH

EXPANSION JOINT

W/ CAULKING

EXPANSION JOINT

W/ CAULKING

COMPACTED GRANULAR FILL

COMPACTED GRANULAR FILL

AB CAPSTONE OR PAVERS

CAULKING

EXPANSION JOINT

COMPACTED GRANULAR FILL

AB STEP FINISHING DETAILS

Designed By: Title: Date:

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Scale: NOT TO SCALE

Project No:

Drawing No: