

\*Grid depth varies from 7' - 10' depending on Reinforced Soil Condition. Exact design shall be provided prior to obtaining Building Permit.

system, as directed by geotechnical engineer.

Typical Reinforced Wall Section (FILL WALLS)

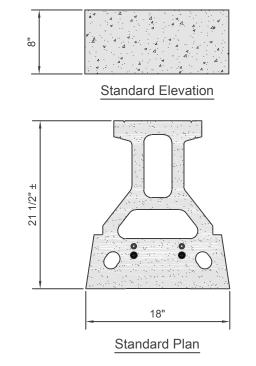
Standard Unit - Near Vertical Setback

Keystone Cap Unit
See "Parapet End Detail" 8" Min. Low Permeable Soil, For walls next to driveways Keystone Standard Unit - Unit Drainage Fill (3/4" Crushed Rock or Stone) 1/8" - 1/4" Reinforced Soil Finished Grade Grid Depth\* 8" Min. Low Permeable Soil Keystone Cap Unit Unreinforced Concrete or Crushed Stone: Retained Soil Leveling Pad Keystone Standard Unit - Unit Drainage Fill (3/4" Reinforced Soil Crushed Rock or Stone) Approximate Limits of Excavation Grid Depth\* Finished Grade 4" Perforated PVC — Drainage Tile -When site conditions require, wrap drainage Unreinforced Concrete tile in 3/4" aggregate and filter fabric with or Crushed Stone drainage composite or aggregate back drain Leveling Pad Foundation Soil system, as directed by geotechnical engineer.

\*Grid depth varies from 7' - 10' depending on Reinforced Soil Condition. Exact design shall be provided prior to obtaining Building Permit.

Typical Reinforced Tiered Wall Section (FILL WALLS)

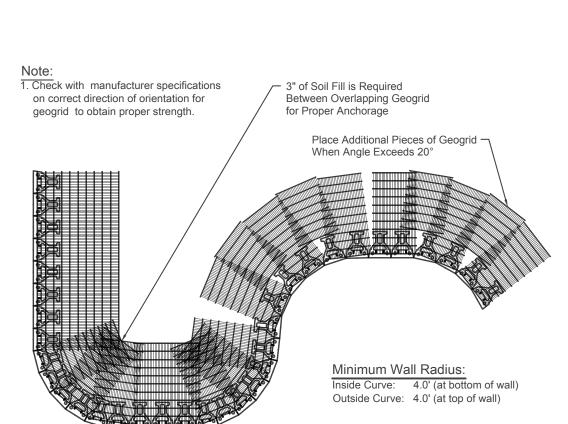
Standard Unit - Near Vertical Setback



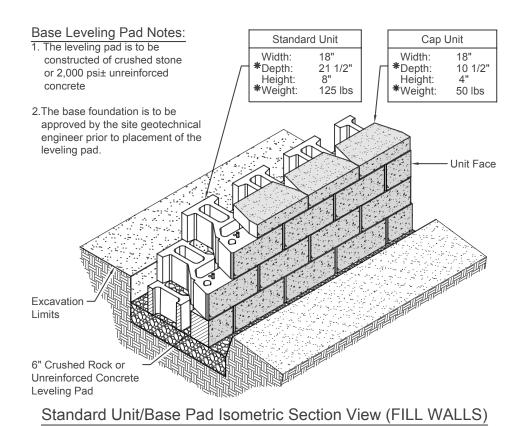
Standard Unit

APPROVED COLORS ARE EITHER TAN/BROWN OR DARK GRAY

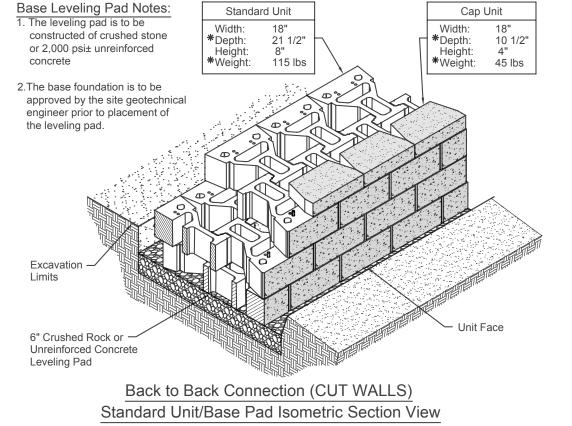
\*Dimensions May Vary by Region



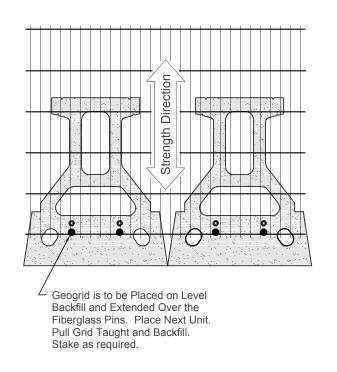
Geogrid Installation on Curves



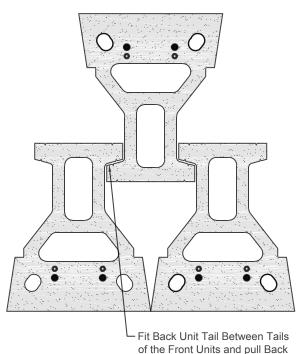
\*Dimensions & Weight May Vary by Region



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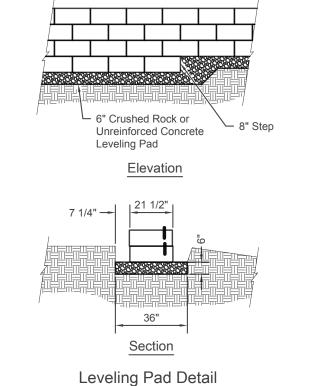


Grid & Pin Connection (FILL WALLS)



of the Front Units and pull Back against Front Unit Tails

Back to Back Connection (CUT WALLS)



(2) - 4" Cap Units or
(1) - 8" Cap Unit

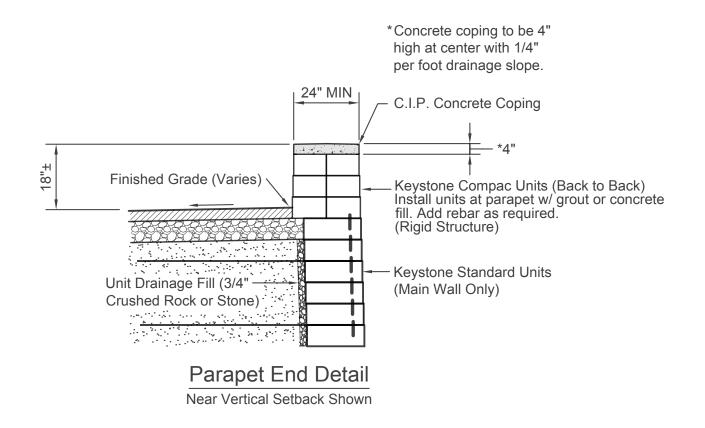
8" Standar Unit

Top of Wall Steps

NOTE:

- A SEPARATE BUILDING PERMIT FROM CONTRA COSTA COUNTY BUILDING DEPARTMENT SHALL BE REQUIRED FOR THE CONSTRUCTION OF RETAINING WALLS. THIS BUILDING PERMIT IS IN ADDITION TO ANY AND ALL OTHER PERMITS THAT MAY BE REQUIRED FOR THE INSTALLATION OF OTHER SUBDIVISION IMPROVEMENTS.

-DETAILED WALL DESIGN AND CALCULATIONS, INCLUDING BUT NOT LIMITED TO, GRID DEPTH AND REINFORCED SOIL CONDITIONS, FOR DIFFERENT WALL CASES, WILL BE REQUIRED PRIOR TO OBTAINING BUILDING PERMIT



WALL COLOR NOTE:

"STANDARD UNIT" RETAINING WALL COLOR SHALL BE EITHER TAN/BROWN OR DARK GRAY.



SHEET

OF 33 SHEETS

IZZAT S. NASHASHIBI R.C.E. 29528

IMPROVEMENT PLANS
RETAINING WALL DETAILS
SUBDIVISION 6569 - LUCAS RANCH - APN 238-0

0-019 ALIFORNIA