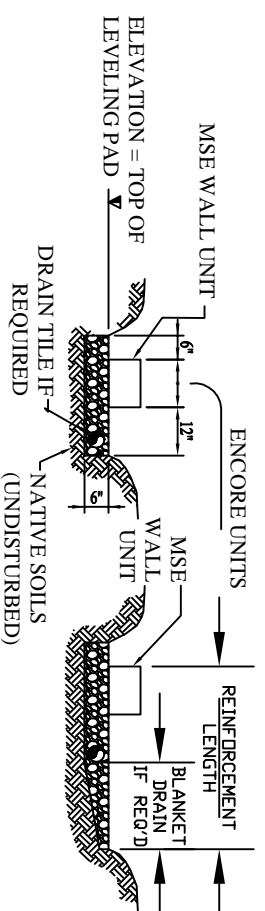
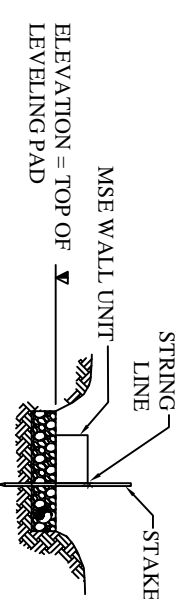


- A. WALL LAYOUT AND GENERAL EXCAVATION:
1. SURVEY AND STAKE THE GRAVITYSTONE WALL FACE LOCATION AND GENERAL EXCAVATION LIMITS FOR WALL CONSTRUCTION.
 2. ENSURE THE WALL IS ALONG PROPER ALIGNMENT, WITHIN APPROPRIATE PROPERTY BOUNDARIES AND CONSTRUCTION EASMENTS.
 3. PERFORM GENERAL EXCAVATION FOR WALL.

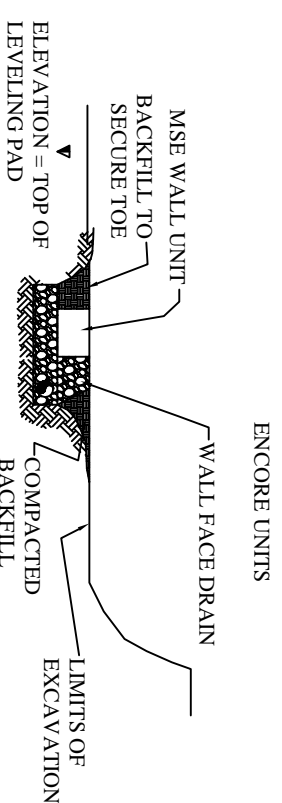


- B. LEVELLING PAD CONSTRUCTION:
1. STAKE WALL LOCATION FOR LEVELLING PAD INSTALLATION.
 2. EXCAVATE TRENCH TO CREATE A MIN. LEVELLING PAD THICKNESS OF 6" ACROSS THE MINIMUM WIDTH INDICATED FOR MSE WALL UNITS.
 3. PLACE GEOTEXTILE FILTER IF REQUIRED.
 4. INSTALL DRAIN PIPE WITH POSITIVE GRAVITY FLOW TO OUTSIDE OF WALL.
 5. PLACE AND COMPACT DRAIN STONE & AGGREGATE BLANKET DRAIN IF REQUIRED.
 6. LEVEL AND COMPACT DRAIN STONE TO SUPPORT WALL UNITS.

STEP 1 EXCAVATION AND LEVELLING PAD



- A. SETTING FIRST COURSE OF GRAVITYSTONE UNITS:
1. CHECK LEVELLING PAD ELEVATION AND SMOOTH LEVELLING PAD SURFACE.
 2. STAKE AND STRING LINE THE WALL LOCATION, PAY CLOSE ATTENTION TO LOCATION OF CURVES, CORNERS, VERTICAL AND HORIZONTAL STEPS.
 3. STRING LINE SHOULD BE USED ALONG A MOLDED FACE OF THE WALL UNIT AND NOT ALONG A SPLIT (BROKEN) FACE FINISH SURFACE.
 4. INSTALL FIRST COURSE OF WALL UNITS, CHECKING THE LEVEL OF EACH UNIT PLACED.



- B. BACKFILLING FIRST COURSE OF GRAVITYSTONE UNITS:
1. RECHECK WALL LOCATION.
 2. USE DRAINAGE AGGREGATE TO FILL ANY OPENINGS WITHIN AND BETWEEN GRAVITYSTONE WALL UNITS.
 3. CAREFULLY PLACE DRAINAGE STONE BEHIND AND UP TO THE HEIGHT OF THE GRAVITYSTONE WALL UNIT TO CREATE A WALL FACE DRAIN. INSTALL GEOTEXTILE IF REQUIRED.
 4. PLACE AND COMPACT BACKFILL SOILS BEHIND THE WALL FACE DRAIN.
 5. PLACE AND COMPACT FILL INFRONT OF THE LOWEST GRAVITYSTONE UNIT TO SECURE THE TOE.
 6. COMPACT DRAINAGE STONE AND BACKFILL SOILS.

STEP 2 FIRST COURSE OF GRAVITYSTONE UNITS

Revisions

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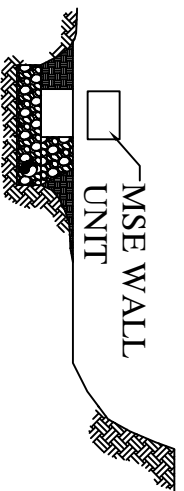
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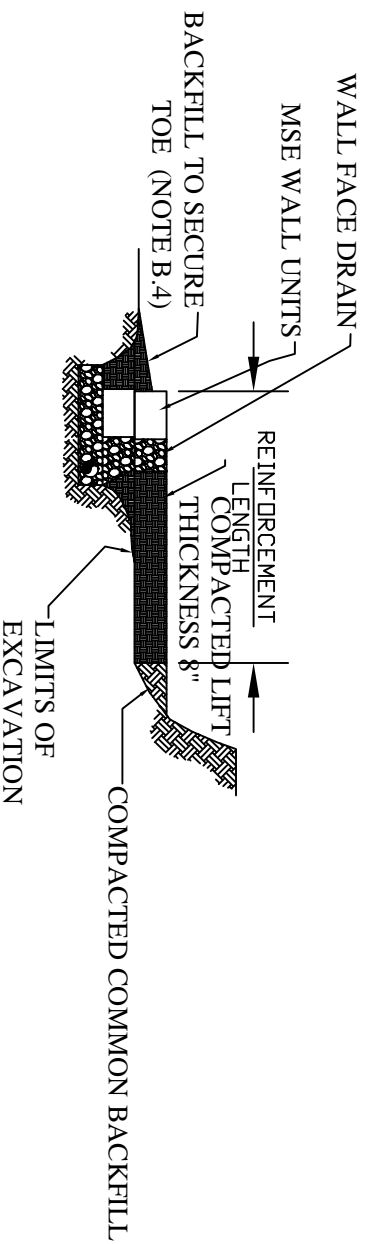
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- A. INSTALLING SUCCESSIVE COURSES OF GRAVITYSTONE UNITS:
1. ENSURE THE DRAINAGE AGGREGATE IS LEVEL OR SLIGHTLY BELOW THE TOP OF THE LOWER WALL UNIT.
 2. CLEAN ALL DEBRIS FROM TOP OF LOWER WALL UNIT.
 3. PLACE THE NEXT UNIT ON TOP OF THE UNITS BELOW AND MOVE FORWARD TO ENGAGE CONCRETE ALIGNMENT LUGS AND ESTABLISH THE PROPER SETBACK.

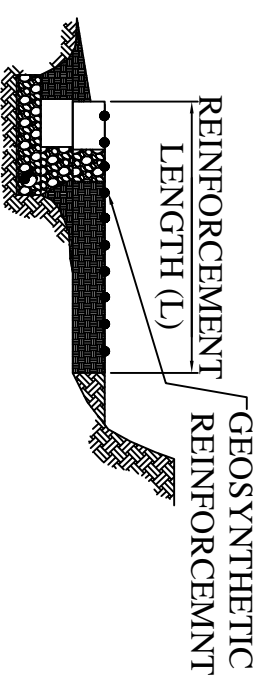


- B. BACKFILL PLACEMENT AND COMPACTION:
1. USE DRAINAGE AGGREGATE TO FILL ANY OPENINGS WITHIN AND BETWEEN GRAVITYSTONE WALL UNITS.
 2. CAREFULLY PLACE DRAINAGE STONE BEHIND AND UP TO THE HEIGHT OF THE GRAVITYSTONE WALL UNIT TO CREATE A WALL FACE DRAIN. INSTALL GEOTEXTILE TO PROTECT DRAIN TILE IF REQUIRED.
 3. PLACE AND COMPACT BACKFILL SOILS BEHIND THE WALL FACE DRAIN.
 4. PLACE AND COMPACT FILL INFRONT OF THE LOWER GRAVITYSTONE UNITS UNTIL THE PROPOSED GRADE IS ACHIEVED AT THE TOE OF WALL.
 6. COMPACT DRAINAGE STONE AND BACKFILL SOILS.

STEP 3 PLACEMENT & BACKFILLING ADDITIONAL COURSES

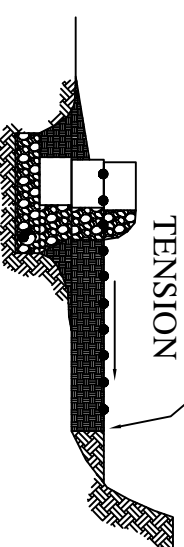
MISCELLANEOUS NOTES:

- i. SEQUENCE OF BACKFILLING MAY VARY AND ARE DEPENDENT ON THE TYPE OF GEOSYNTHETIC REINFORCEMENT USED.
- ii. ALIGNMENT OF STRAIGHT WALLS SHOULD BE CHECKED EVERY OTHER COURSE.



- A. PLACEMENT OF GEOSYNTHETIC REINFORCEMENT:
1. ENSURE THE DRAINAGE AGGREGATE IS LEVEL OR SLIGHTLY BELOW THE TOP OF THE LOWER WALL UNIT.
 2. CLEAN ALL DEBRIS FROM TOP OF LOWER WALL UNIT.
 3. CUT REINFORCEMENT TO THE DESIGN LENGTH (L) AS SHOWN ON THE PLANS AND INSTALL WITH STRENGTH (ROLL) DIRECTION PERPENDICULAR TO THE WALLS FACE.
 4. PLACE THE NEXT UNIT ON TOP OF THE CONCRETE UNITS (AND REINFORCEMENT) AND MOVE FORWARD TO ENGAGE LUGS AND ESTABLISH THE PROPER SETBACK.

PULL TIGHT AND STAKE OR HOLD TENSION



- B. BACKFILLING OVER GEOSYNTHETIC REINFORCEMENT:
1. PULL GEOSYNTHETIC REINFORCEMENT TAUT, USING UNIFORM TENSION, HOLD OR STAKE TO MAINTAIN TENSION THROUGHOUT THE FILL PLACEMENT PROCESS.
 2. PLACE DRAINAGE AGGREGATE TO FILL ANY OPENINGS WITHIN AND BETWEEN GRAVITYSTONE WALL UNITS AND CAREFULLY PLACE DRAINAGE STONE BEHIND AND UP TO THE HEIGHT OF THE GRAVITYSTONE WALL UNIT TO CREATE A WALL FACE DRAIN. INSTALL GEOTEXTILE IF REQUIRED.
 3. PLACE AND COMPACT BACKFILL SOILS BEHIND THE WALL FACE DRAIN.
 4. PLACE DRAINAGE STONE OR PREFABRICATED DRAIN TO THE REAR OF THE BACKFILL IF REQUIRED.
 6. COMPACT THE DRAINAGE STONE AND THE REINFORCED AND COMMON BACKFILL SOILS.

STEP 4 INSTALLING GEOSYNTHETIC REINFORCEMENT

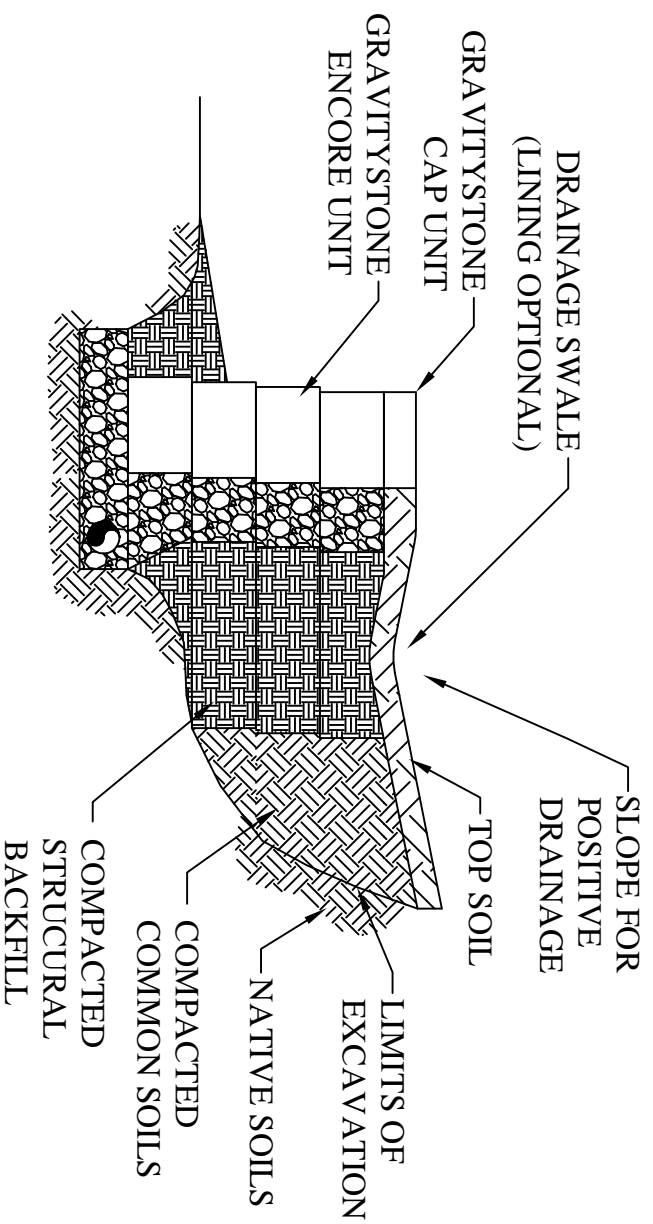
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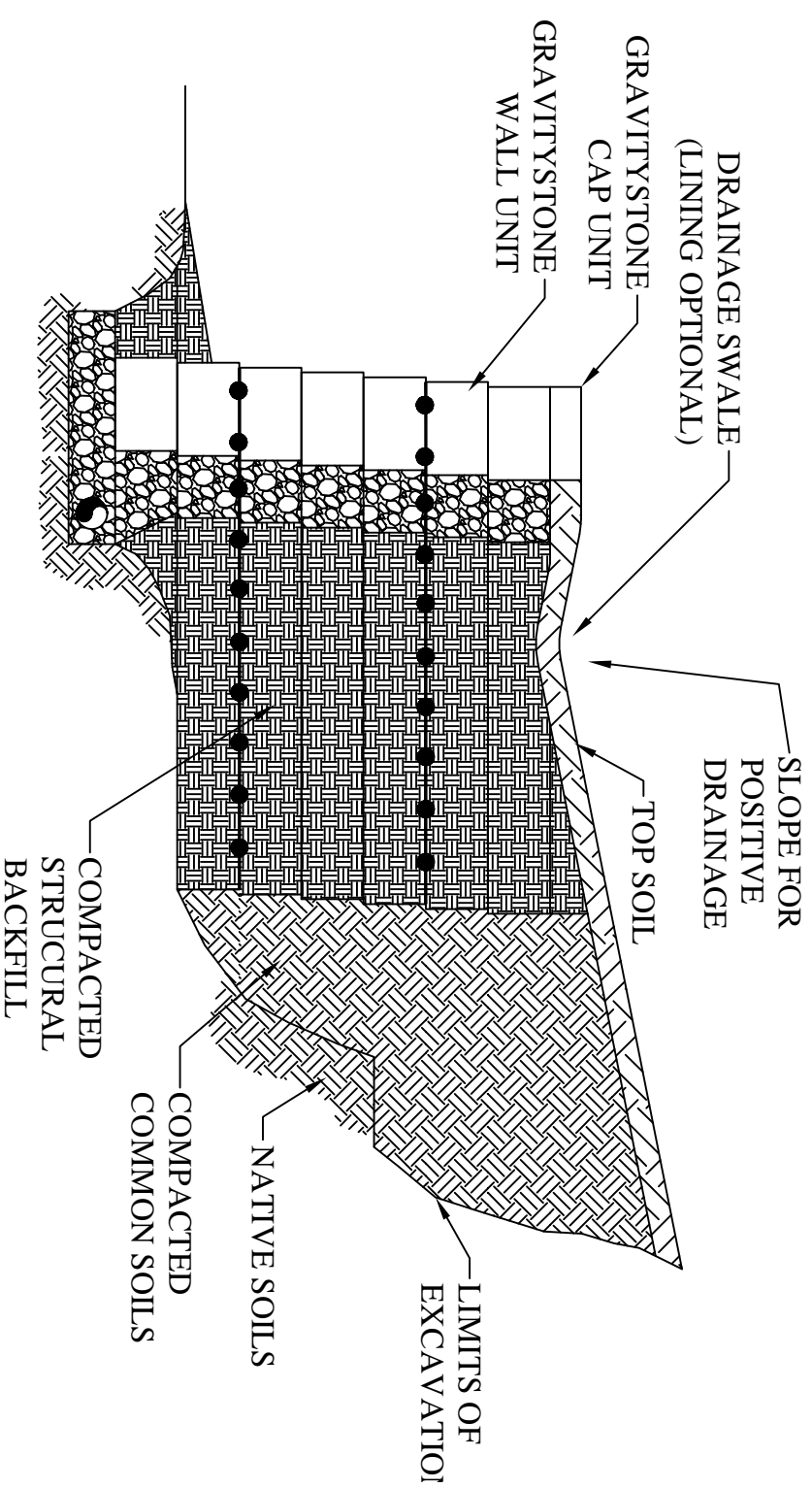


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A. COMPLETED GRAVITYSTONE WALL NEAR ENDS OF WALL.


1. WHERE INDICATED BY THE DESIGN DRAWINGS, REINFORCEMENT MAY NOT BE REQUIRED.

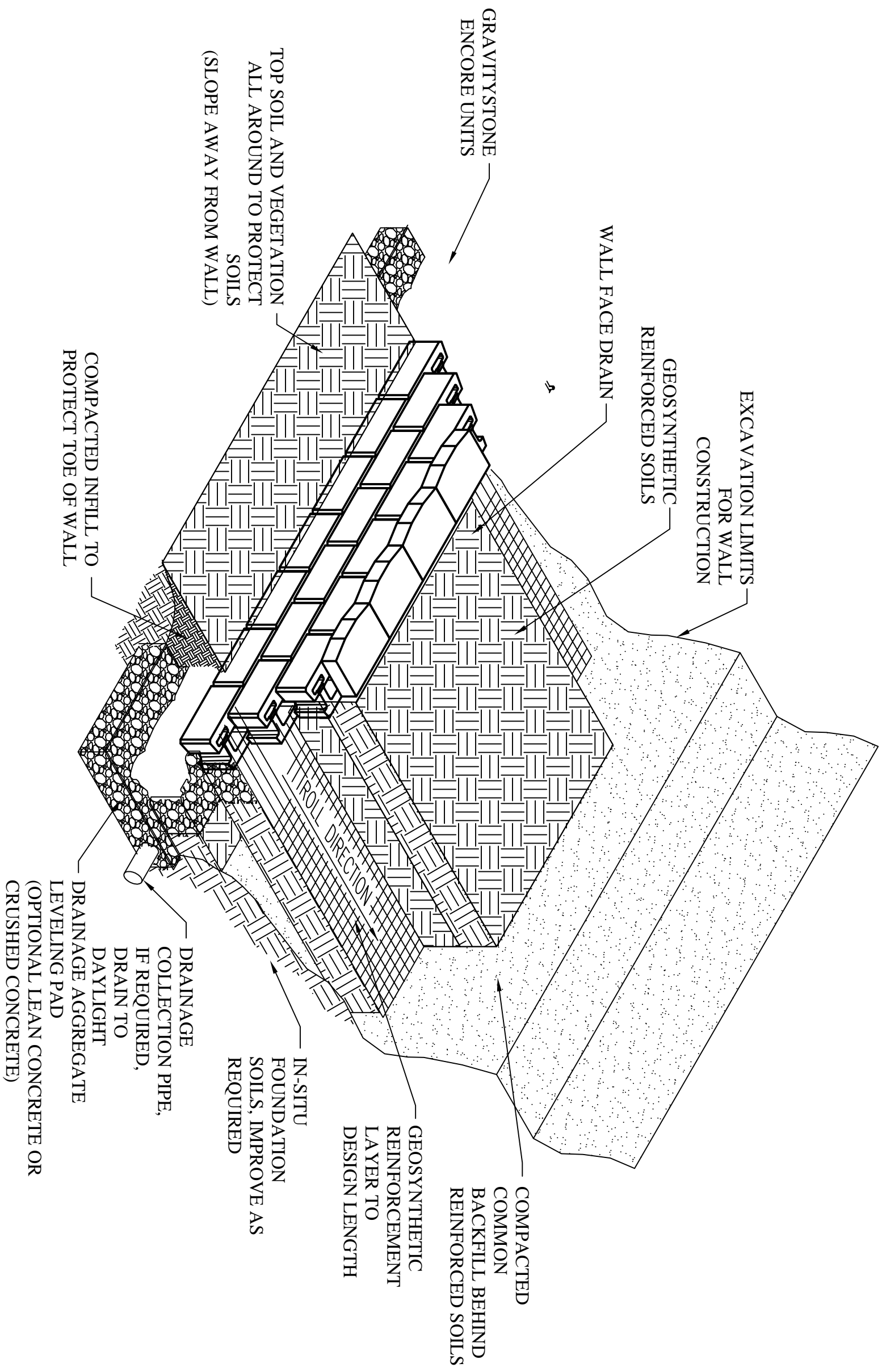


B. COMPLETED REINFORCED GRAVITYSTONE WALL:

1. CONTINUE WALL TO FULL HEIGHT FOLLOWING STEPS 3 & 4.
2. INSTALL GRAVITYSTONE CAP UNITS, SECURE WITH APPROVED CONSTRUCTION ADHESIVE.
3. PLACE AND COMPACT FINAL BACKFILL TO FINISHED SUB-GRADE ABOVE AND BEHIND THE REINFORCED SOIL ZONE.
4. FINISH GRADE FOR POSITIVE DRAINAGE AWAY FROM THE WALL FACE. INSTALL DRAINAGE SWALE AT WALL FACE (LINING OPTIONAL, PER PLANS). PLACE TOPSOIL AND VEGETATE SLOPES ABOVE AND AROUND WALL TERMINATIONS.
- 6.

CAPPING AND GRADING THE COMPLETED WALL

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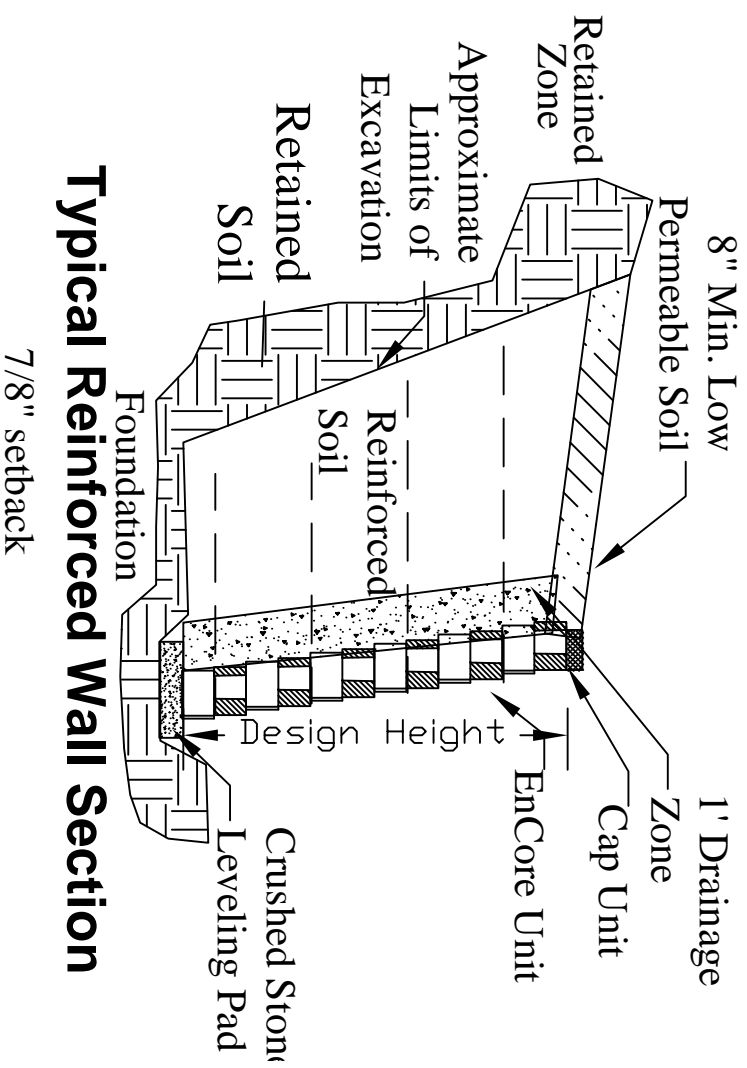
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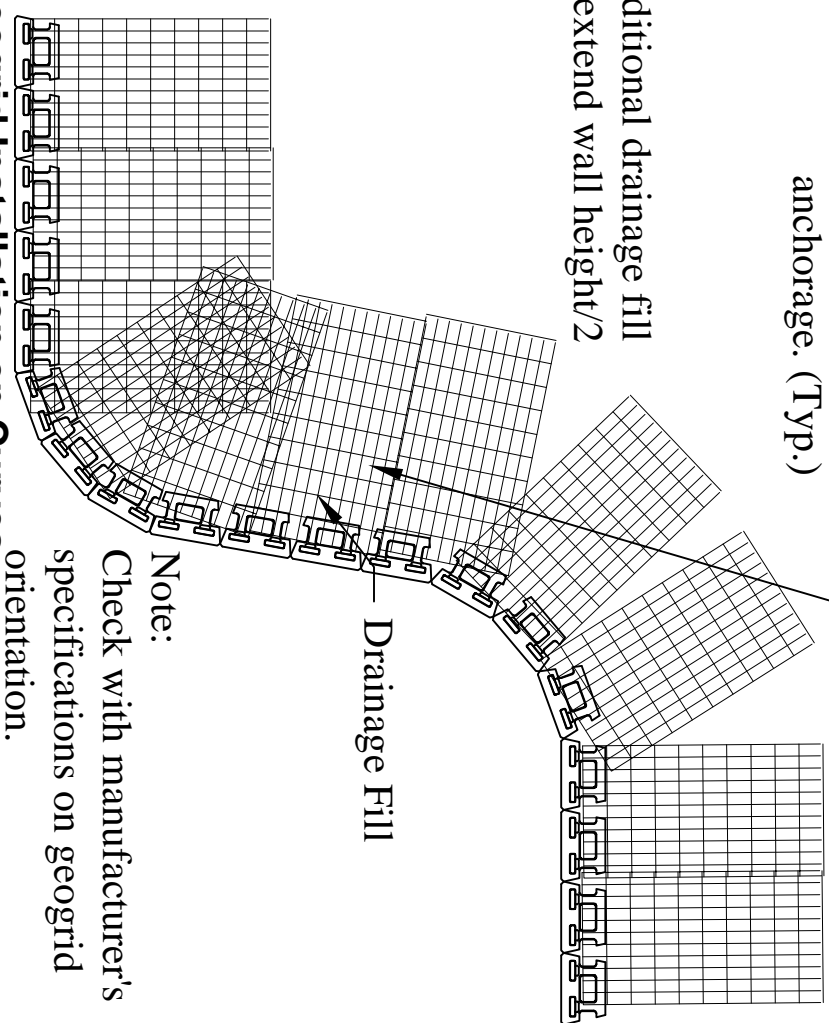


Typical Reinforced Wall Section

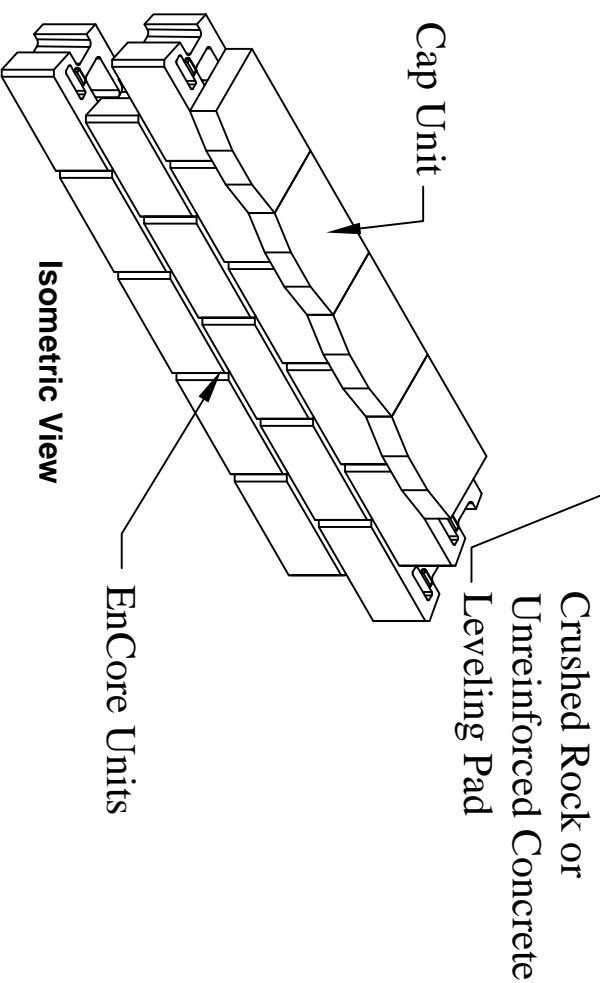
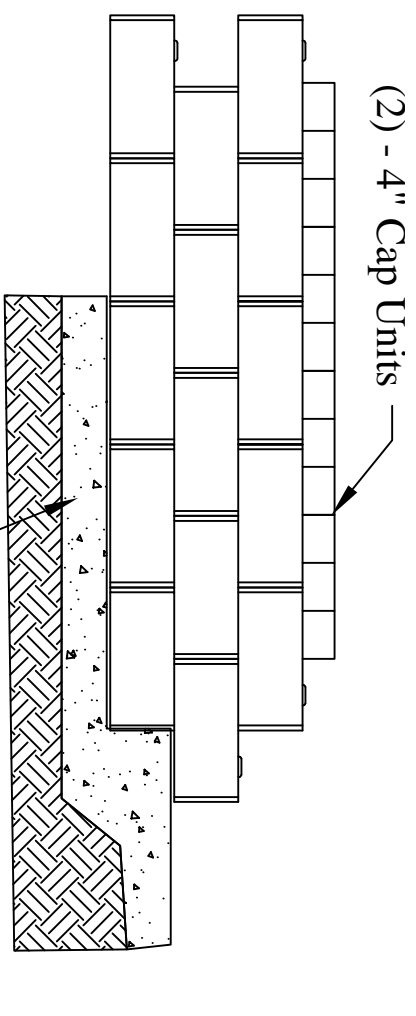
7/8" setback

3" of soil fill is required between overlapping geogrid for proper anchorage. (Typ.)

Additional drainage fill extend wall height/2



Geogrid Installation on Curves

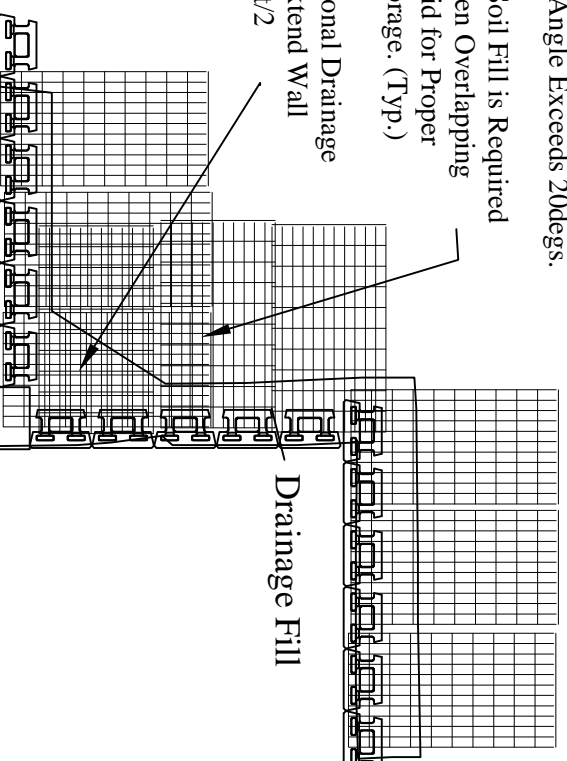


Isometric View

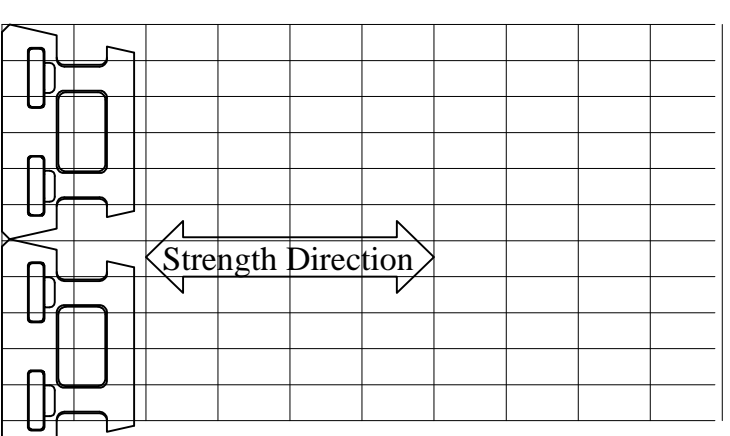
Place Additional Pieces of Geogrid When Angle Exceeds 20degs.

3" of Soil Fill is Required Between Overlapping Geogrid for Proper Anchorage. (Typ.)

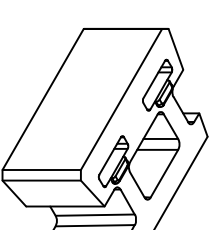
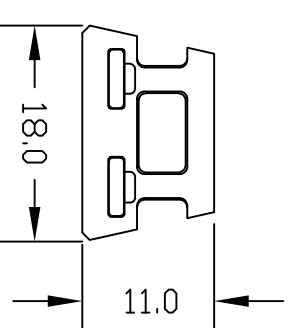
Additional Drainage Fill Extend Wall Height/2



Geogrid Installation at Corners



Frictional Connection



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