Retaining Walls for 4436 Alabama Ave SE

Washington, DC 20019

Project Scope:

The project consists of the construction of a 6' segmented retaining wall in the rear yard .5- ft from the alley and a 3.5 segmented retaining wall 28-ft from the alley to create a flat level space. Additionally the project includes replacement of an existing wooded fence that has collapsed to be place on top of the 6-ft retaining wall and extend round the perimeter of the rear yard. Removal of existing steps down to the alley and replacement with bolder steppers to the southside of the yard.

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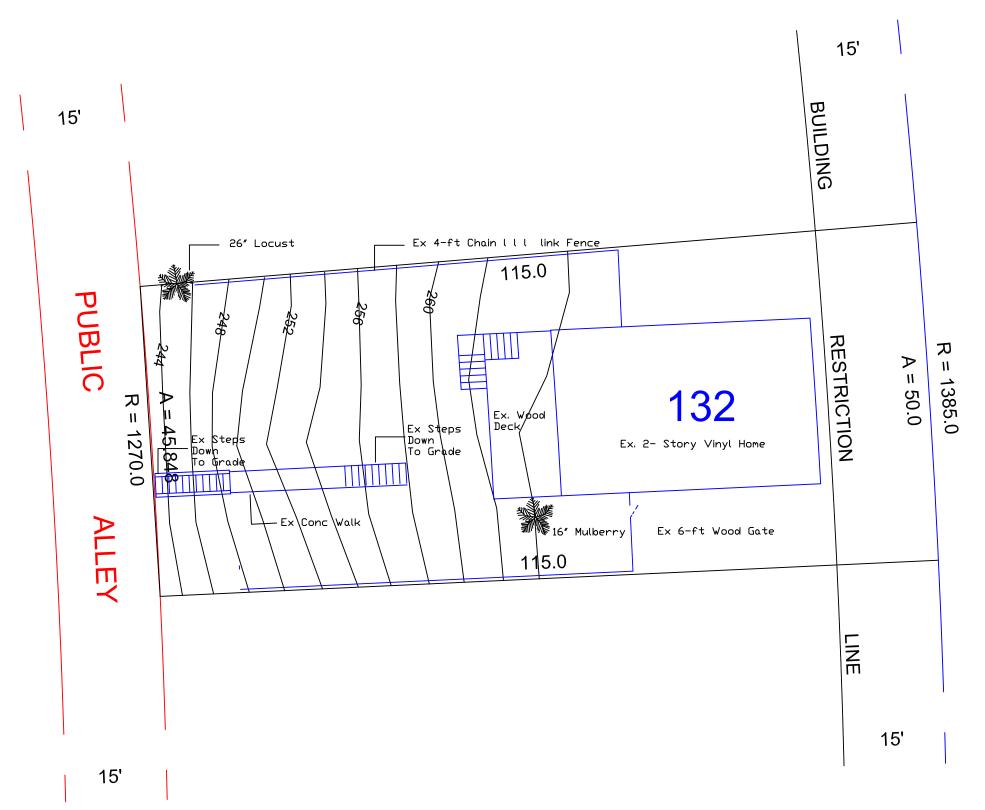
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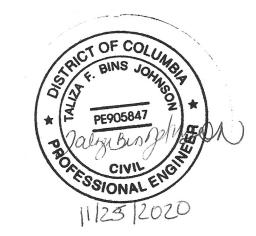
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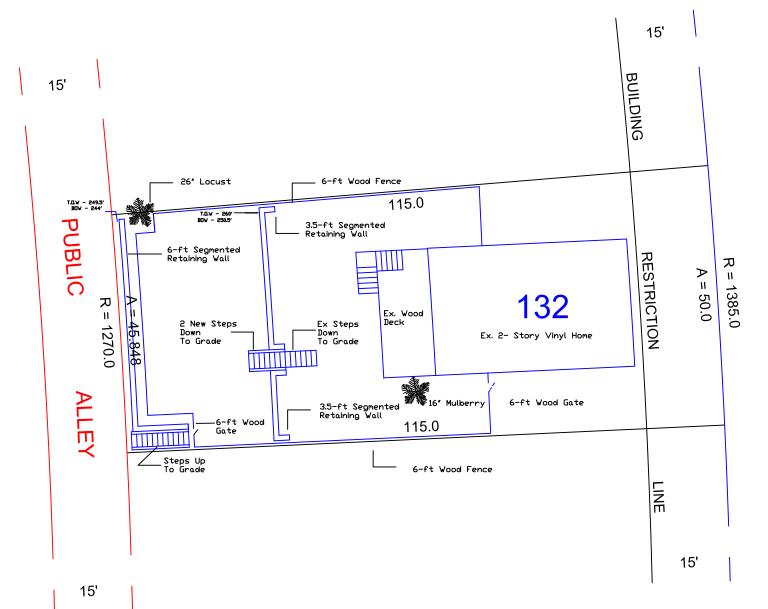






Exisitng Conditions

4436 Alabama Ave SE Washington, DC 20019





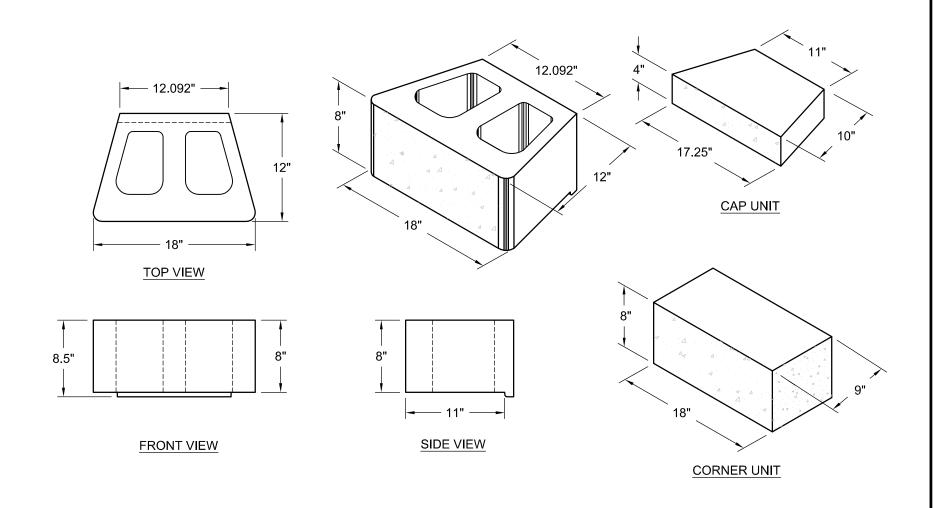
ALABAMA

S.E.



Proposed Conditions

4436 Alabama Ave SE Washington DC 20019

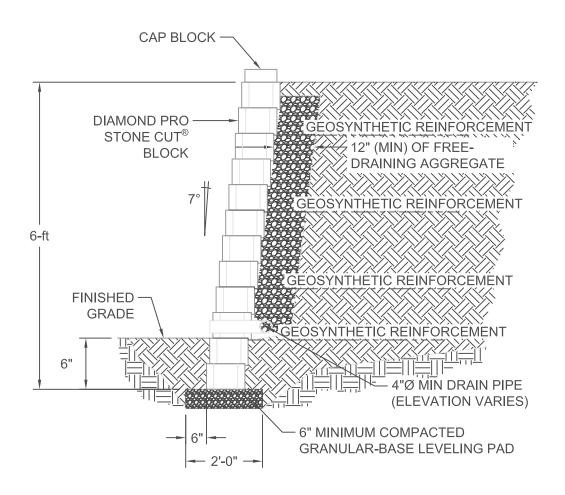


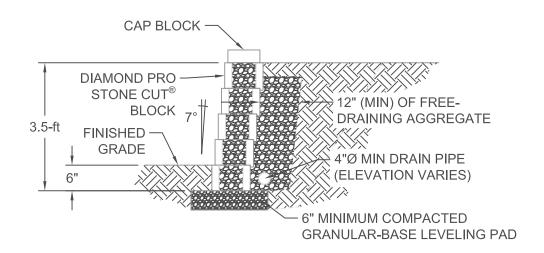


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Diamond Pro Stone Cut® Retaining Wall System Individual Block Details

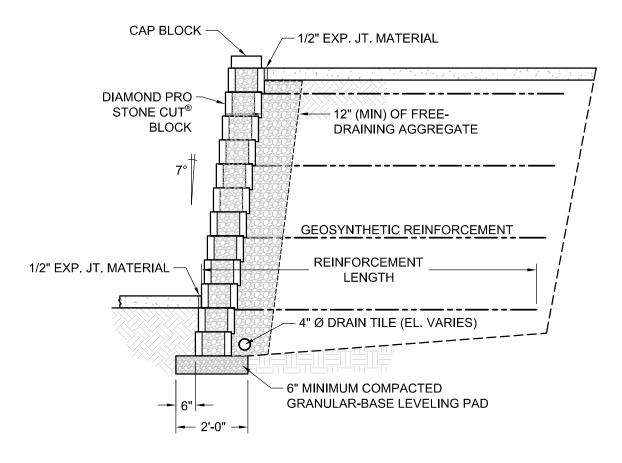
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TYPICAL 3.5-FT WALL-SECTION

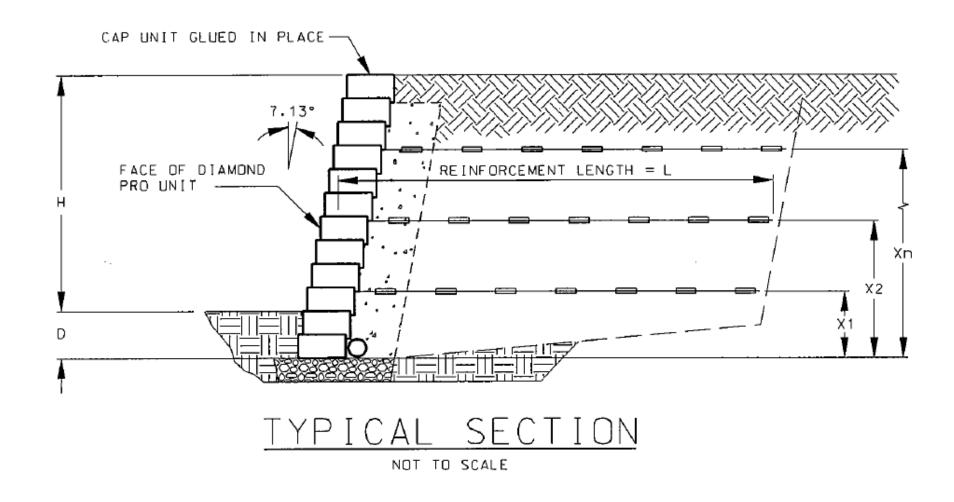
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Typical Cross Section with Sidewalk

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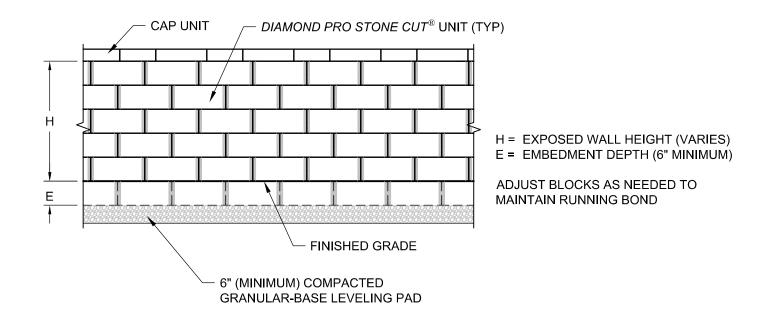


DESIGN TABLE - REINFORCEMENT

EXPOSE WALL	DEPTH BELOW			GEOSYNTHET	IC PLACEMEN	T DISTANCE UP	FROM WALL
HEIGHT	GRADE	TOTAL NO. OF	LENGTH		BASI	E (FT)	
Н	D	COURSES FOR	L	X ₁	X ₂	X ₃	X _n
(ft)	(in)	FINISHED	(ft)				
5.5'	6"	9	6'	2'	4	l'	

Reinforcement : Diamond Pro Diamond Pro

Mirafi 3xt, Raugrid, Huesker

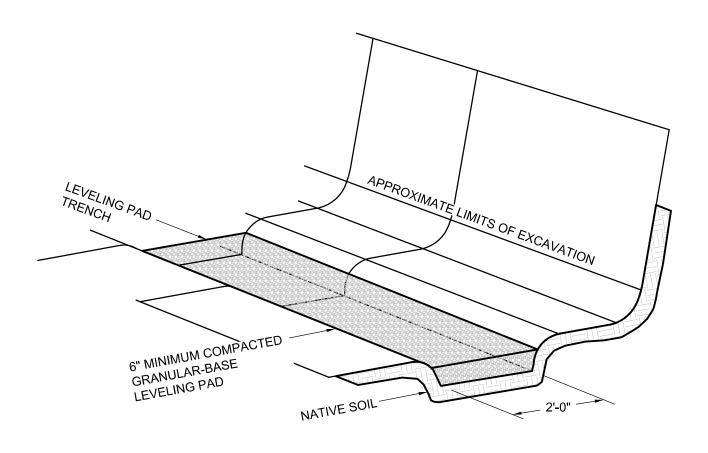




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Diamond Pro Stone Cut® Retaining Wall System Typical Elevation View

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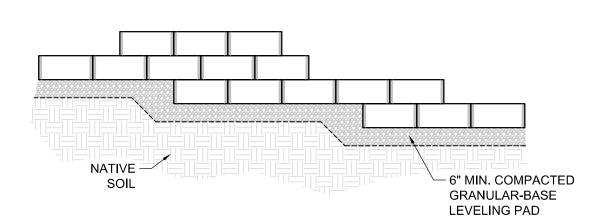




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Diamond Pro Stone Cut® Retaining Wall System Base Preparation Detail

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None	SB
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1/19/2016	DPCR04
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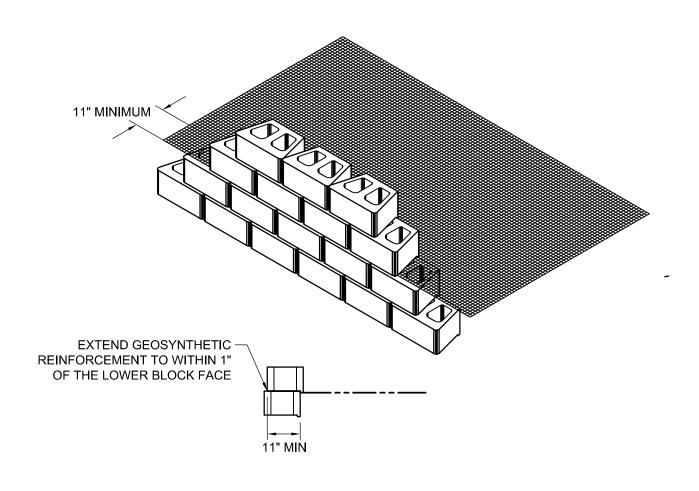




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Typical Base Step-Up Detail

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Reinforcement Connection Detail

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1/19/2016	DPCR03
	1 4

NOTE: IN THE "CROSS-OVER AREA" OF REINFORCEMENT, ONE OF THE LAYERS OF REINFORCEMENT SHOULD BE LOWERED OR RAISED ONE COURSE TO ALLOW PLACEMENT OF THE REINFORCEMENT WITH THE PRINCIPLE REINFORCEMENT STRENGTH DIRECTION PROPERLY ORIENTATED. THE REINFORCEMENT SHOULD NOT EXTEND INTO THE SEGMENTAL RETAINING WALL UNITS ON THE RETURN LEG OF THE 90-DEGREE CORNER. **PRINCIPLE** REINFORCEMENT **DIRECTION** PRINCIPLE REINFORCEMENT DIRECTION

CUT UNITS (X) TO MAINTAIN RUNNING BOND **SECOND FIRST** COURSE **COURSE FOURTH THIRD** COURSE COURSE DIAMOND PRO CORNER UNIT

NOTE: USE ADHESIVE ON EXPOSED PARTIAL UNITS

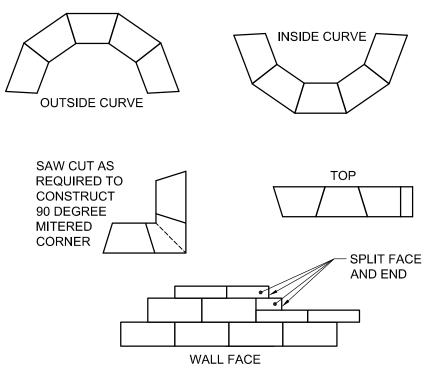
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Outside Corners

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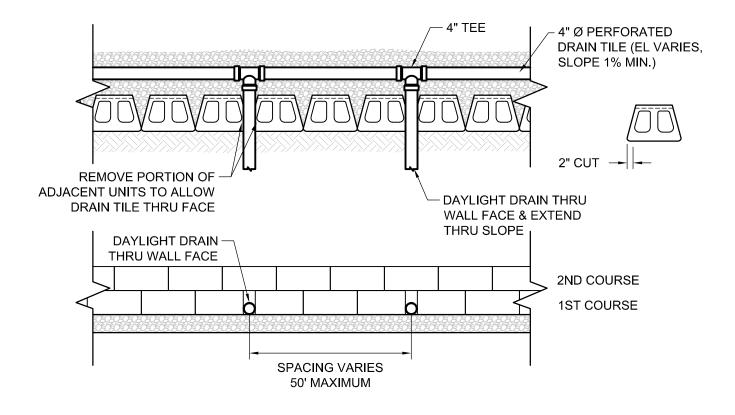
- 1. ALWAYS START CAPPING WALL FROM THE LOWEST ELEVATION.
- 2. LAYOUT CAPS PRIOR TO USING ADHESIVE.
- 3. CUT CAPS TO FIT. VARIOUS COMBINATIONS OF LONG AND SHORT CAP FACES WILL BE NECESSARY FOR RADII GREATER THAN THE MINIMUM.
- 4. ALTERNATE SHORT AND LONG CAP FACES EVERY OTHER CAP TO ACHIEVE A STRAIGHT ROW OF CAPS.
- 5. USE EXTERIOR-GRADE CONSTRUCTION ADHESIVE TO SECURE CAPS.



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Diamond Pro Stone Cut® Retaining Wall System Capping Detail

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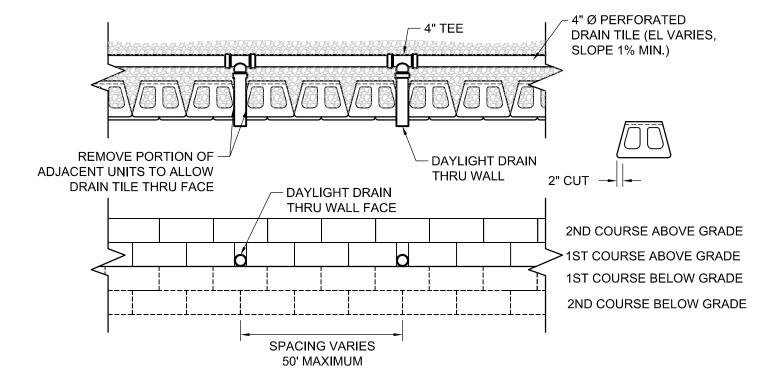




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Diamond Pro Stone Cut® Retaining Wall System Drain Pipe Through Toe Slope

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1/19/2016	DPCR20

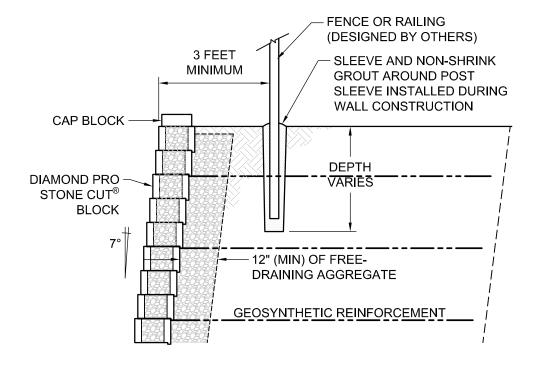




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Drain Pipe Through Wall Face

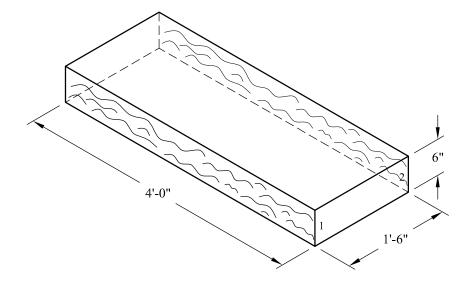
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1/19/2016	DPCR19



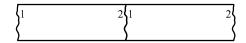


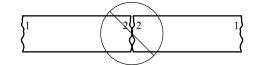
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Typical Fence Cross Section

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1/19/2016	DPCR09



THE TEXTURES ON SIDES 1 AND 2 ARE DESIGNED TO MARRY WITH MINIMAL GAPPING BETWEEN THE UNITS







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Drawn By: AWE Date: 1/27/2015	Landings TM Step Unit Unit Details
Scale: 1/2"=1'-0"	Typical Details For Segmental Retaining Walls

