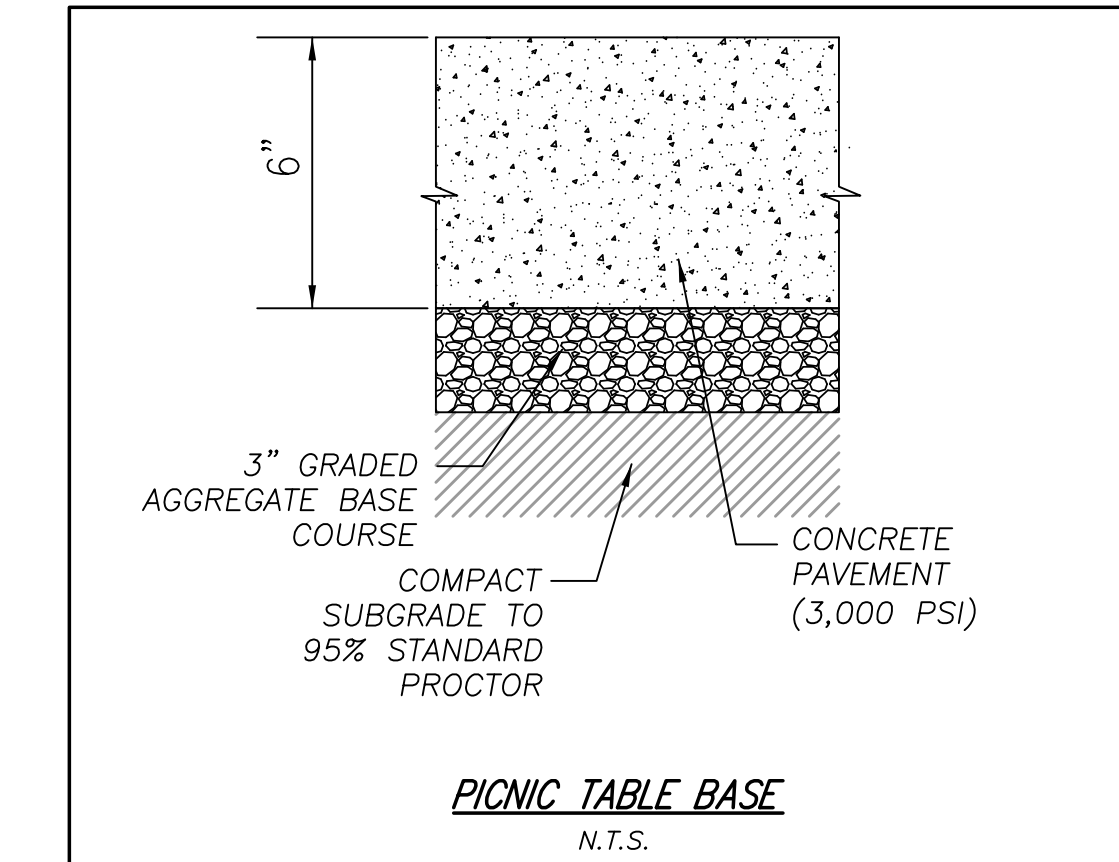
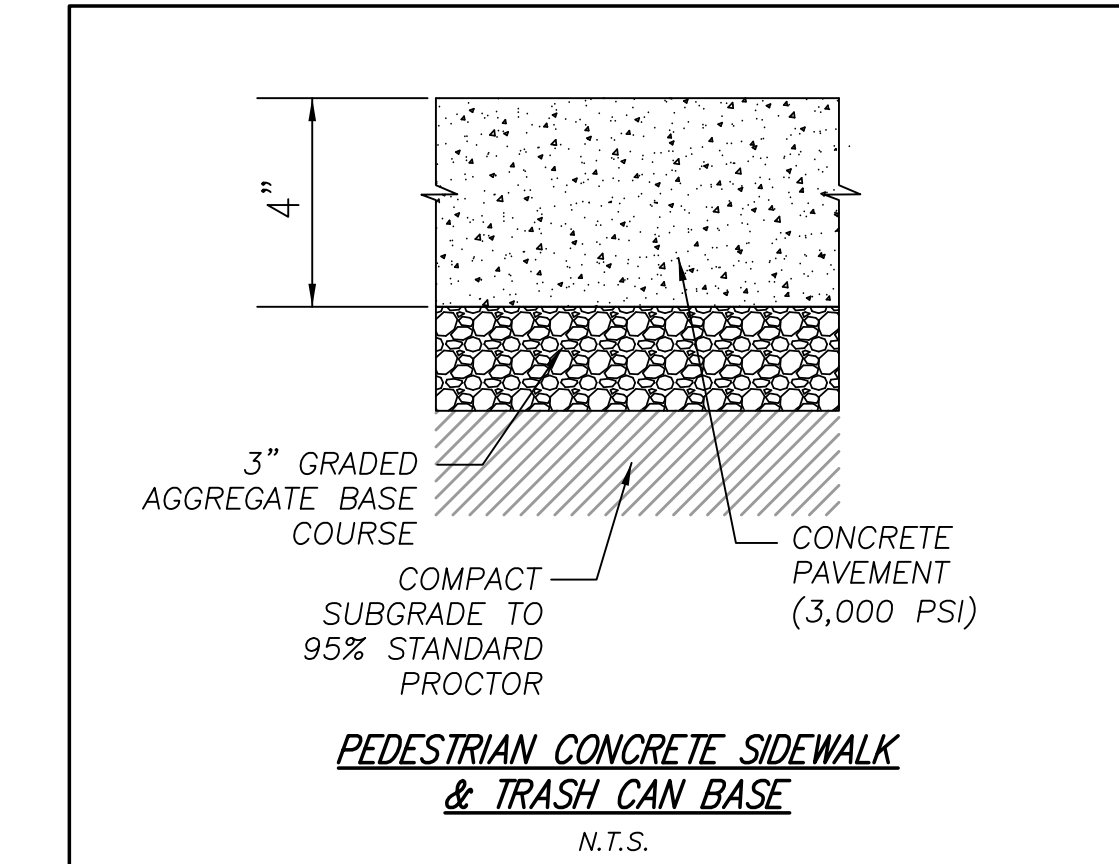
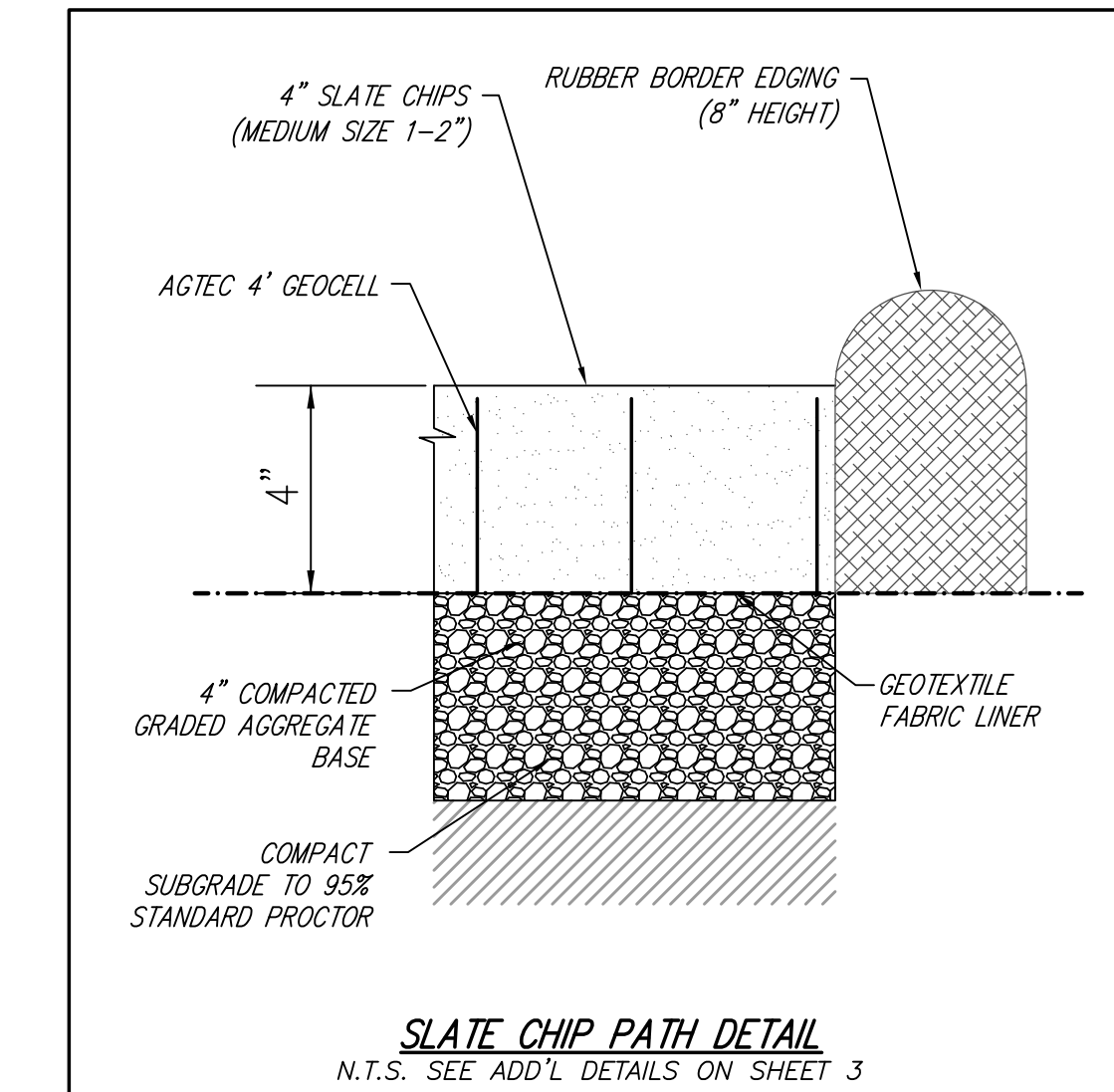
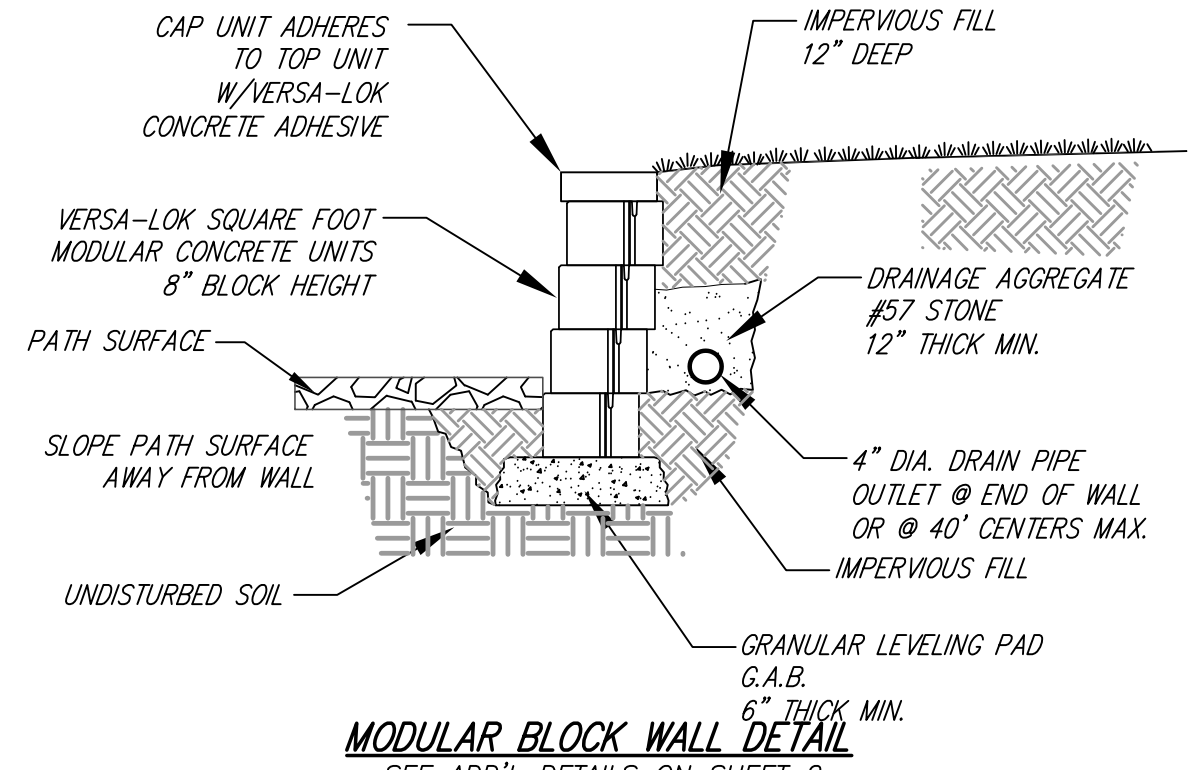
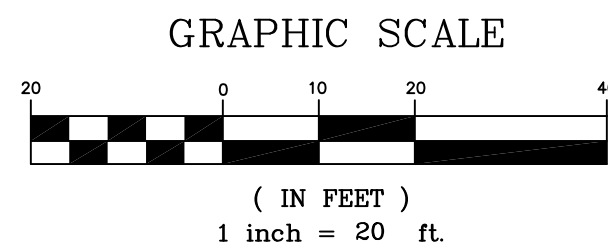
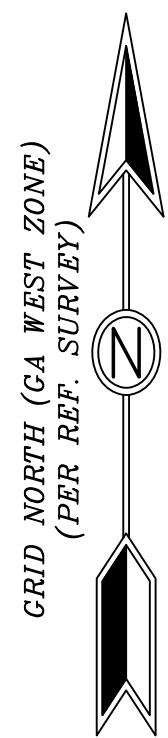


PARCELS
078 021
PROPOSED DEVELOPMENT:
LAKE ZWERNER PICNIC AREA IMPROVEMENTS



OWNER
CITY OF DAHLONEGA
465 RILEY ROAD
DAHLONEGA, GA 30533
(706) 864-6133

24-HOUR CONTACT
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vhunsinger@dahlonega.gov
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DES DAVIS
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DAWSONVILLE, GA 30534
PHONE: (706) 265-1234
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REGISTERED
No. 054085
PROFESSIONAL
ENGINEER
GREGORY R. JORDAN
3/27/26

REVISION	DATE	DESCRIPTION

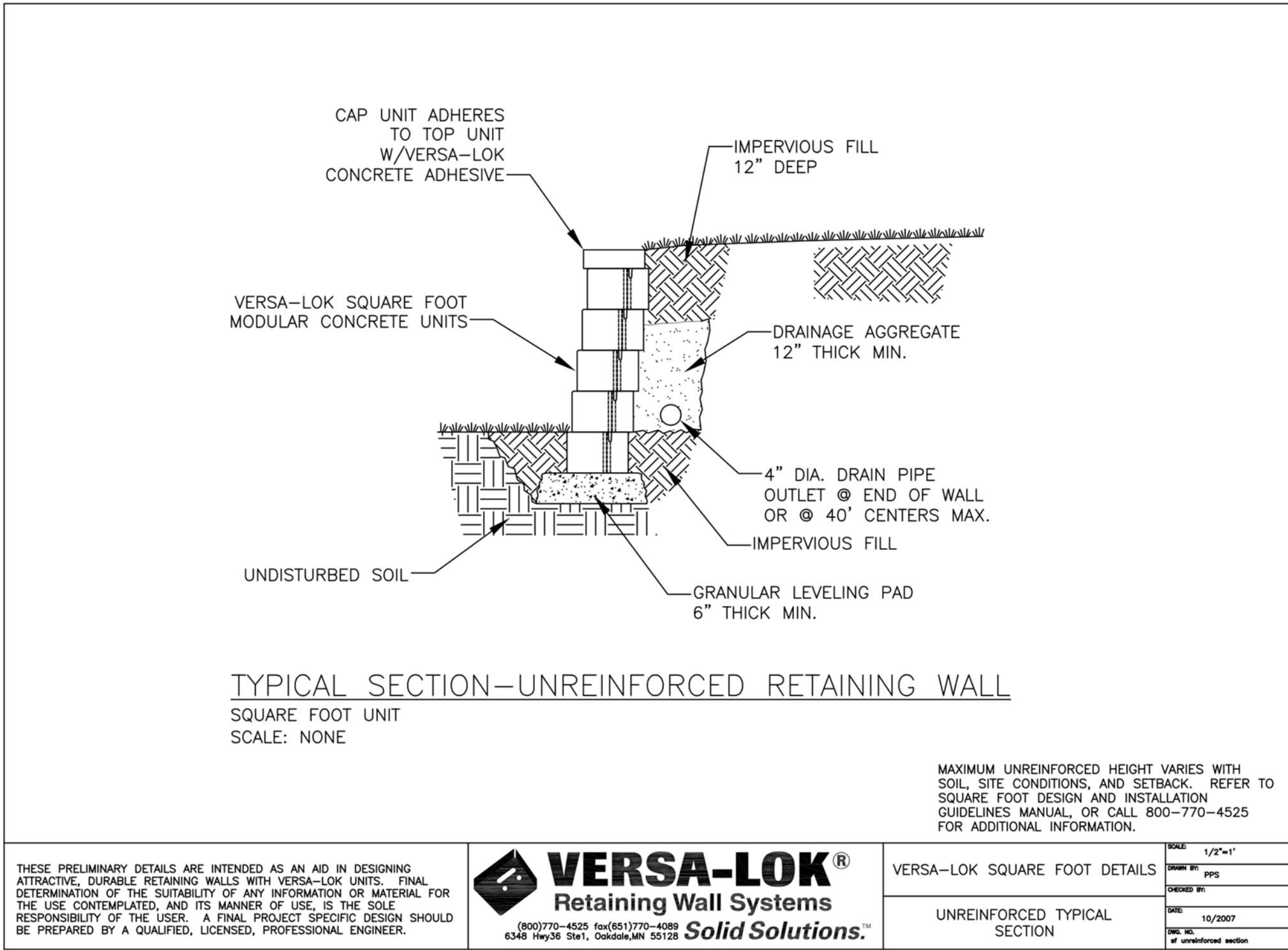
LAKE ZWERNER PICNIC AREA
1680 MORRISON MOORE PARKWAY E
LAND LOT 1028
12TH DISTRICT
CITY OF DAHLONEGA, GA

DRAWN BY:	GRJ
CHECKED BY:	JKD
LAND LOT:	1208
DISTRICT:	12
SECTION:	-
CITY:	DAHLONEGA
COUNTY:	LUMPKIN
DATE:	3/7/26

SHEET NO.
1 OF 3

PROJECT NO.
2025-691

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GEOCELL

SOIL STABILIZATION GRID

8.4ft x 27.4ft

AVAILABLE IN 2", 3", 4", 6" AND 8" DEPTHS
COVERS APPROXIMATELY 230 SQ FT

www.agtec.com • sales@agtec.com
Agtec LLC, 125 Mayo Road, Hampden Maine 04444

Full line of installation accessories available at www.agtec.com



Woven and Non-Woven Geotextiles • Zip Ties • Steel Anchor Pins
Slope Strapping • J-Hook Rebar Stakes • Rebar Stake Caps

Installation Guide



Prepare Subgrade

Clear subgrade of rocks, vegetation, and other debris. For sloped surface applications shape the slope and dig perimeter trenches and a trench at the top of the slope. Drain water from site, especially for channel installations. Compact the soil. For paved surface, railroad bed, and structural footing applications additional site grading or shaping may be necessary. The type and extent of subgrade preparation will vary depending on the nature of the subsoil.



Lay Geotextile

High-strength woven and nonwoven geotextiles lend additional drainage and stability to Geocell installations. Geotextiles are often recommended and sometimes required depending on the application. They are especially useful when installing over softer or compressible subsoils. Lay agricultural fabric or geotextile such as Agtec 3oz Ground Cover or Agtec 4.5oz Drainage and Filtration Fabric onto prepared subgrade surface. Allow for adequate overlap in fabric panels when using overlapping panel joints. On slope applications, run geotextiles into the perimeter trenches and secure with appropriate anchor pins or staples.



Secure Geocell

Unfold Geocell and secure to other panels with zip ties, bolts or pneumatic plier staples to fasten them together. Geocell can be stretched evenly and used in square applications or fanned to fit into curved areas. Panels can be cut with a hand saw or reciprocating saw to fit the required dimensions if needed.

Panels may be secured in place with J-hooks or rebar stakes. Rebar stakes can be attached to the edge of a panel by use of the Agtec rebar stake cap. When installing on a slope or channel, panels may be secured by running Agtec Geocell slope strapping through the slots on the walls of the geocell and secured at points throughout the panel or attached to an anchor at the crest of a slope. Be sure to start at the crest of the slope when unfolding the panels and work downwards running the edges of the panels into perimeter trenches. Certain underwater and cold climate applications may require the use of a stretcher frame while filling.



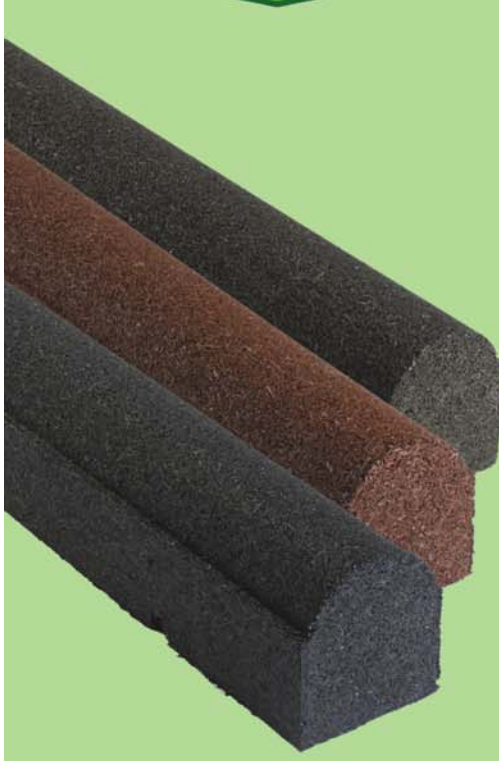
Fill Cells

Fill perimeter cells to help secure in place. We recommend using 3/8" (preferred) or 3/4" compacting gravel for roadway or driveway installations. Use compacting gravel (not rounded gravel) to avoid a potential "quicksand effect" that may push panels out of the ground. Compacting gravel includes: crushed rock or limestone, crushed stone, crusher run, fines, stone dust, aggregate, road base, paver base and decomposed granite (mixed with sand or stone dust). Fill the rest of the openings within the Geocell by hand or machine (backhoe, front-end loader, conveyor, crane-mounted skip, mixer chute, etc). Limit drop-height of infill to 3ft. Overfill cells at least 2 in above the cell walls before compacting. This overfill is required to allow for compacting of the material. When filling a slope fill from the crest of the slope to the base.



Finish Installation

Remove any protruding rebar after installation. Aggregate may be compacted when enough over-flow material is used. Fill material should be flush with the top of the cells at the completion of compaction in a slope or channel installation. Any loose aggregate must be maintained on a regular basis.



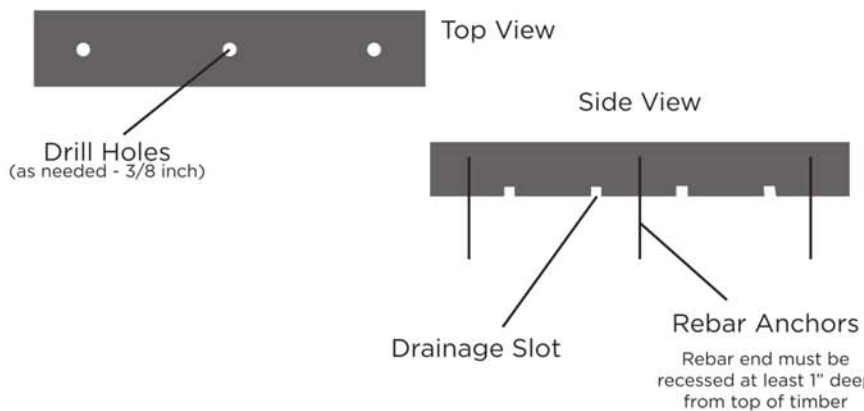
The Gold Standard of Recycled Rubber

- Designed with engineered drainage ports so water does not pool in flower beds or playgrounds
- Looks great with no maintenance for years to come
- Great for playground and landscaping applications
- Matches or complements Rubberific Mulch or NuPlay groundcovers
- Made from 100% recycled rubber
- Easy to install
- Made in the USA
- Long-lasting and durable
- Available in Earthtone, Redwood, and Black
- Each timber includes 3 anchors

Rubberific Timber

Rubberific Timbers are the best border system option for all your landscaping and playground needs. These 92" long Rubberific Timbers come in heights of 4", 6", or 8". With the flexibility of rubber, it can form to virtually any edge desired. The top of the Rubberific Timber is rounded to provide extra safety when used around a playground.

Installation Instructions:



All Timbers are 92" in length

Using Rebar Anchors:
Drill a 3/8" hole 8" from each end of the timber and one hole in the middle of the timber. Rebar end must be recessed at least 1" deep from top of timber



03/27/2026

Rubberific Playground Border Timbers, 8 Inch High

Brand: Rubber Mulch
Price: \$114.10

Features:

Each border includes 3 stakes
The top of the Rubberific Timber is rounded to provide extra safety when used around a playground
Designed with engineered drainage ports so water does not pool in flower beds or playgrounds
Looks great with no maintenance for years to come
Matches or complements Rubberific Mulch or NuPlay groundcovers
Easy to install
Varying quantities of borders can be quoted

Features:

Recycled Rubber

Customize:

Available in Earthtone, Redwood, Forest Green and Classic Black

Product Specifications:

Equipment Weight: 100 lb
Installed Dimensions: 6 in x 92 in x 8 in
Length: 92 in
100% Recycled

Description:

Rubberific Timbers are the latest border system for landscaping and playgrounds. These 92" long Rubberific Timbers come in heights of 4", 6" or 8". With the flexibility of rubber, it can form to virtually any edge desired. The 8" border timber is 6" wide.



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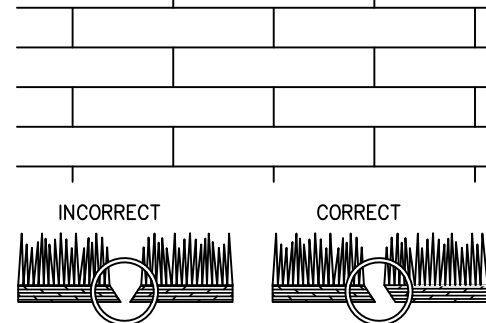
3/27/26

REVISION	DATE	DESCRIPTION

willygoat.com | fun@willygoat.com | 888-920-4628

SOD MAINTENANCE AND INSTALLATION

SOD LAYOUT AND PREPARATION



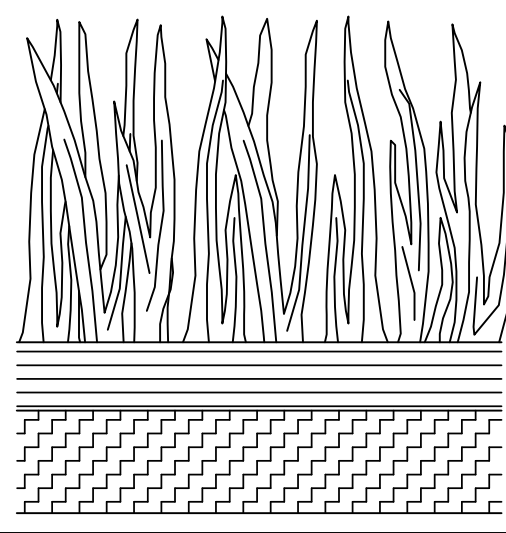
LAY SOD IN A STAGGERED PATTERN. BUTT THE STRIPS TIGHTLY AGAINST EACH OTHER. DO NOT LEAVE SPACES AND DO NOT OVERLAP. A SHARPENED MASON'S TROWEL IS A HANDY TOOL FOR TUCKING DOWN THE ENDS AND TRIMMING PIECES.

BUTTING: ANGLED ENDS CAUSED BY THE AUTOMATIC SOD CUTTER MUST BE MATCHED CORRECTLY.

DIRECTIONS FOR INITIAL MAINTENANCE

- Step 1. ROLL SOD IMMEDIATELY TO ACHIEVE FIRM CONTACT WITH THE SOIL.
- Step 2. WATER TO A DEPTH OF 4" AS NEEDED. WATER WELL AS SOON AS THE SOD IS LAID.
- Step 3. NOW WHEN THE SOD IS ESTABLISHED --- IN 2-3 WEEKS. SET THE MOWER HIGH (2"-3").

APPEARANCE OF GOOD SOD



SHOOT OR GRASS BLADES: GRASS SHOULD BE GREEN AND HEALTHY, MOWED AT A 2"-3" CUTTING HEIGHT.

Ds4 DISTURBED AREA STABILIZATION SODDING N.T.S.

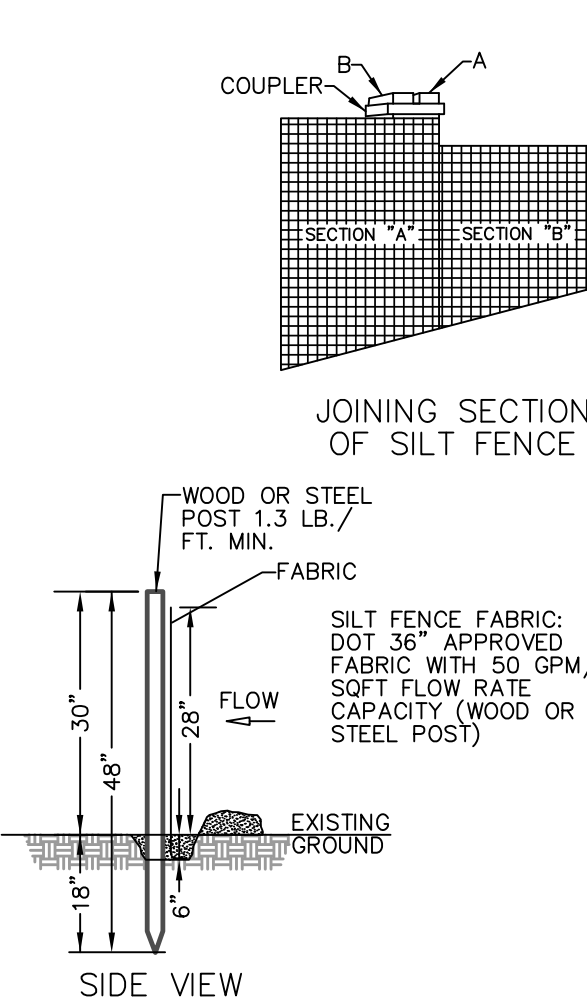
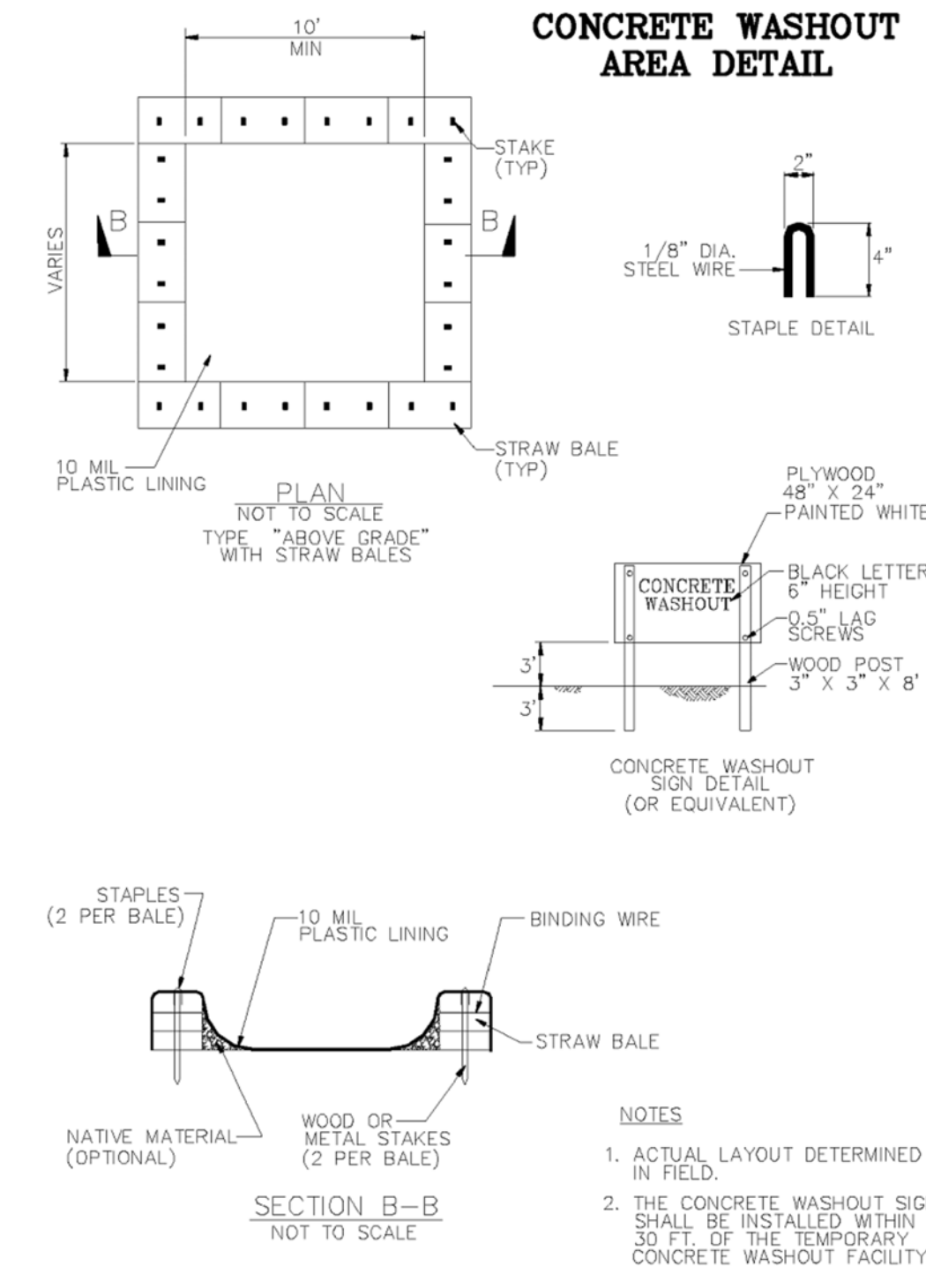
THATCH: GRASS CLIPPINGS AND DEAD LEAVES (UP TO 1/2" THICK).

ROOT ZONE: SOIL AND ROOTS SHOULD BE 1/2"-3/4" THICK WITH DENSE ROOT MAT FOR STRENGTH.

Concrete Waste Management

WM-8

CONCRETE WASHOUT AREA DETAIL



SEDIMENT BARRIER (TYPE "S" & "NS" SILT FENCE) OR APPROVED EQUAL N.T.S.

Sd1-S

Ds3

DISTURBED AREA STABILIZATION
(WITH PERMANENT VEGETATION)

SPECIES	RATE PER 1,000 SQ FT	RATE PER ACRE ¹	PLANTING DATES			YEARS TO FERTILIZER		FERTILIZER ANALYSIS		RATE	N TOP-DRESSING RATE *
			Mts.-L'tone	Piedmont	Coastal	N 1-2	N 2-1	N 1-2	N 2-1		
WEeping LOVEGRASS AND VIRGATA OR SERICEA LESPEDEZA	0.1 lbs. 1.4 lbs.	4 lbs. 40 lbs.	3/15-6/15 3/15-6/15	3/1-6/15 3/1-6/15	2/1-6/15 2/15-6/15	FIRST SECOND	6 10	12 10	12 10	1500 1000	50 -
SERICEA LESPEDEZA SEEDBEARING HAY WITH OVERSEEDED WEeping LOVEGRASS	138 lbs. 0.05 lbs.	3 tons 2 lbs.	10/1-3/1 3/15-6/15	10/1-3/1 3/1-6/15	10/15-2/1 2/1-6/15	FIRST SECOND	6 10	12 10	12 10	1500 1000	50 -
HULLED COMMON BERMUDAGRASS AND SERICEA LESPEDEZA	0.2 lbs. 1.4 lbs.	10 lbs. 60 lbs.	3/1-7/1 3/15-6/15	2/15-7/1 3/1-6/15	2/15-6/15 3/1-6/15	FIRST SECOND	6 10	12 10	12 10	1500 1000	50 -
UNHULLED COMMON BERMUDAGRASS AND VIRGATA OR SERICEA LESPEDEZA SEED HAY	0.2 lbs. 1.4 lbs.	10 lbs. 40 lbs.	10/1-3/1 3/15-6/15	11/1-2/1 3/1-6/15	2/15-6/1 3/1-6/15	FIRST SECOND	6 10	12 10	12 10	1500 1000	50 -
TALL FESCUEGRASS AND CLEAN COMBINE RUN VIRGATA OR SERICEA LESPEDEZA	1.1 lbs. 1.4 lbs.	50 lbs. 40 lbs.	3/1-4/1 3/15-6/15	8/15-11/1 3/1-6/15	2/15-6/1 3/1-6/15	FIRST SECOND	6 10	12 10	12 10	1500 1000	0-50 IN SPRING
HULLED COMMON BERMUDAGRASS	0.2 lbs.	10 lbs.	3/1-7/1	2/15-7/1		FIRST SECOND	6 10	12 10	1500 800	50-100	

1. REDUCE SEEDING RATES BY 50% WHEN DRILLED.
* FERTILIZER/N TOP-DRESSING RATES INDICATED ARE IN LBS/ACRE.

OPTIMAL PIEDMONT PLANTING DATES SHOULD BE FOLLOWED. OPTIMAL DATES OCCUR TWO WEEKS AFTER EARLIEST MARGINAL DATE IN RANGE AND TWO WEEKS BEFORE LATEST MARGINAL DATE IN RANGE.

Ds1

DISTURBED AREA STABILIZATION
(WITH MULCHING ONLY)
MATERIALS AND RATES:

MATERIAL	RATE
STRAW OR HAY	2-4" DEEP
WOOD WASTE, CHIPS, SAW DUST OR BARK	2-3" DEEP/ABOUT 6-9 TONS/ACRE
MATting OR NETTING	ACCORDING TO MANUFACTURERS RECOMMENDATIONS
CUTBACK ASPHALT	700-800 GALLONS/ACRE (1.2-1.4 INCHES THICK)
POLYETHYLENE FILM	COMPLETELY COVER AREA

INCORPORATE 20-30 LBS N PER ACRE ON AREAS THAT WILL EVENTUALLY BE PERMANENT VEGETATION.

Ds2

DISTURBED AREA STABILIZATION
(WITH TEMPORARY SEEDINGS)
SEEDING RATES FOR TEMPORARY SEEDINGS¹

SPECIES	RATE PER 1,000 SQ FT	RATE PER ACRE ²	PLANTING DATES		
			Mts.-L'tone	Piedmont	Coastal
RYE (ALONE)	3.9 POUNDS	3 bu.	7/15-12/1	8/15-1/1	9/1-3/1
ANNUAL RYEGRASS (IN MIXTURES)	0.6 POUNDS	1/2 bu.	8/1-5/1	8/1-4/15	8/15-4/1
ANNUAL RYEGRASS (ALONE)	0.9 POUNDS	40 lbs.	8/1-5/1	8/1-4/15	8/15-4/1
LESPEDEZA (IN MIXTURES)	0.2 POUNDS	10 lbs.	2/1-5/1	2/15-5/1	1/15-3/15
WEeping LOVEGRASS (ALONE)	0.1 POUNDS	4 lbs.	3/15-6/15	3/15-6/15	2/15-6/15
WEeping LOVEGRASS (IN MIXTURES)	0.05 POUNDS	2 lbs.	3/15-6/15	3/15-6/15	2/15-6/15
SUDANGRASS	1.4 POUND	60 lbs.	4/1-9/1	4/1-9/1	3/1-8/1
BROWNTOP (ALONE)	0.9 POUNDS	40 lbs.	4/1-7/1	4/1-7/15	4/1-7/15
MILLET (IN MIXTURES)	0.2 POUNDS	10 lbs.	4/1-7/1	4/1-7/15	4/1-7/15
WHEAT (ALONE)	4.1 POUNDS	3 bu.	9/1-1/1	9/1-1/1	9/15-2/1
WHEAT (IN MIXTURES)	0.7 POUNDS	1/2 bu.	9/1-1/1	9/1-1/1	9/15-2/1

¹ TEMPORARY COVER CROPS ARE VERY COMPETITIVE AND WILL CROWN OUT PERENNIALS IF SEEDING TOO HEAVILY.
² REDUCE SEEDING RATES BY 50% WHEN DRILLED.

ES&PC & ADD'L DETAILS
1680 MORRISON MOORE PARKWAY E
LAND LOT 1028
12TH DISTRICT
CITY OF DAHLONEGA, GA

DRAWN BY: GRJ
CHECKED BY: JKD
LAND LOT: 1208
DISTRICT: 12
SECTION: -
CITY: DAHLONEGA
COUNTY: LUMPKIN
DATE: 3/7/26

SHEET NO.
3 OF 3

PROJECT NO.
2025-691