

**VEGETATION ESTABLISHMENT
For Urban Development Sites
APPENDIX A**

SEEDING RATES:

PERMANENT:

Tall Fescue - 30 lbs./ac.
Smooth Brome - 20 lbs./ac.
Combined - Fescue @ 15 lbs./ac. AND Brome @ 10 lbs./ac.

TEMPORARY:

Wheat or Rye - 150 lbs./ac. (3.5 lbs. per sq. ft.)
Oats - 120 lbs./ac. (2.75 lbs. per sq. ft.)

SEEDING PERIODS:

Fescue or Brome - March 1 to June 1
August 1 to October 1
Wheat or Rye - March 15 to November 1
Oats - March 15 to September 15

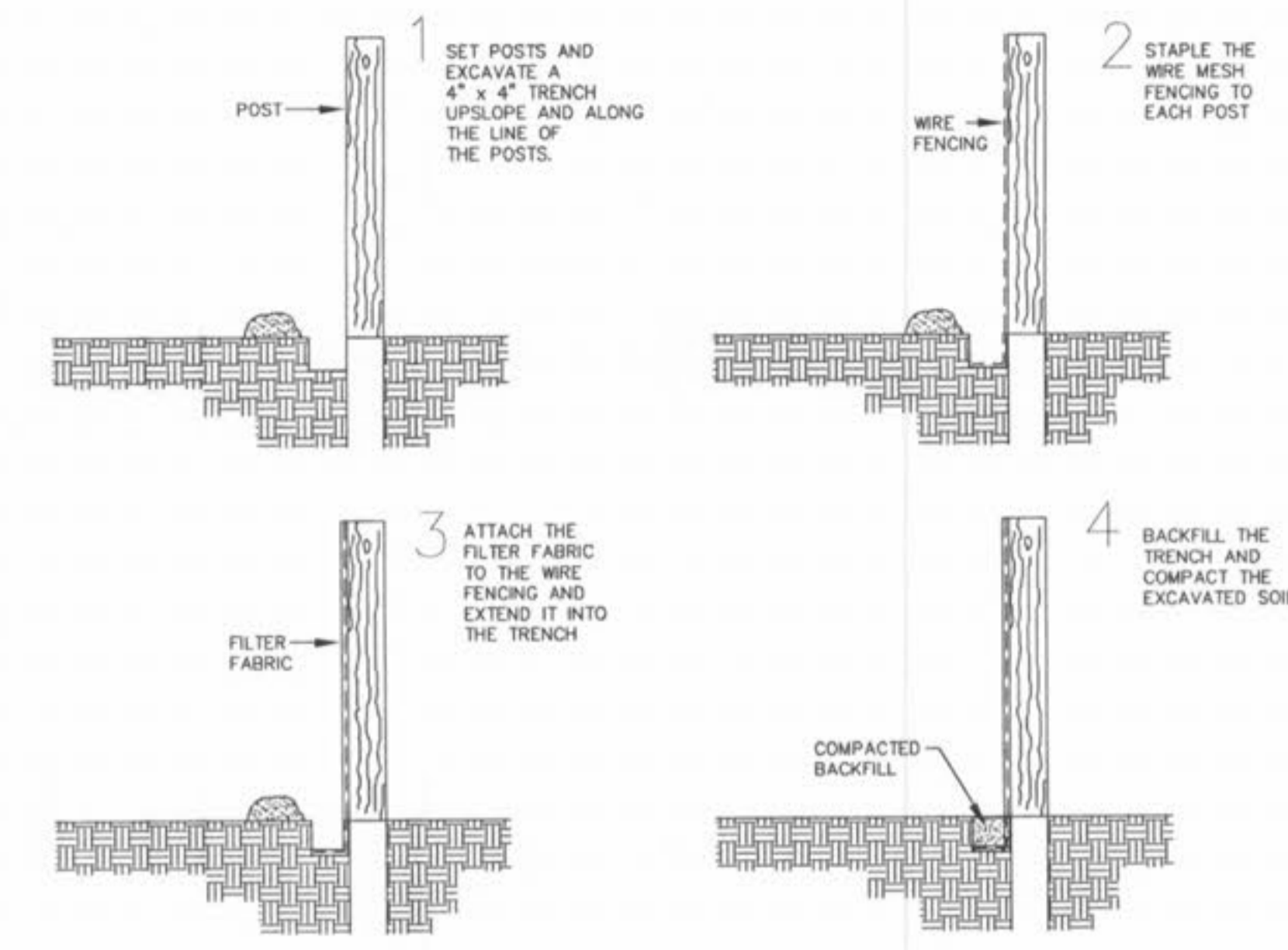
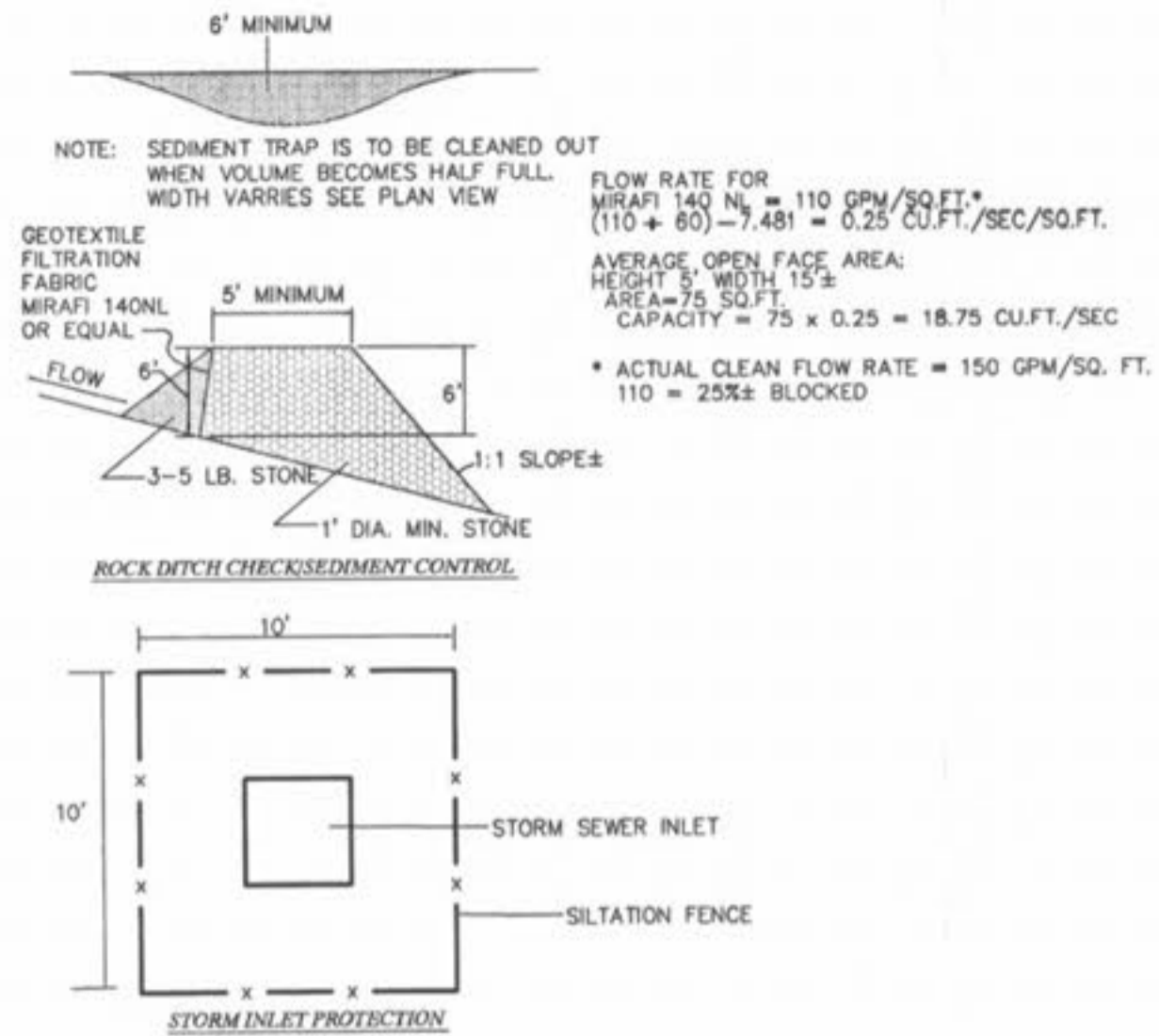
MULCH RATES:

100 lbs. per 1000 sq. ft. (4,356 lbs. per ac.)

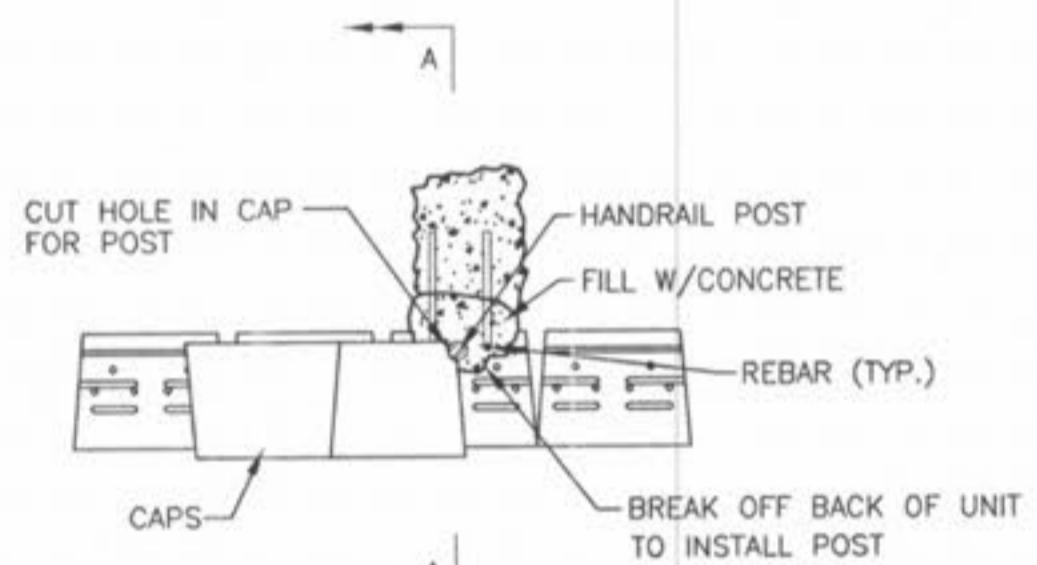
FERTILIZER RATES:

Nitrogen 30 lbs./ac.
Phosphate 30 lbs./ac.
Potassium 30 lbs./ac.
Lime 600 lbs./ac. ENM*

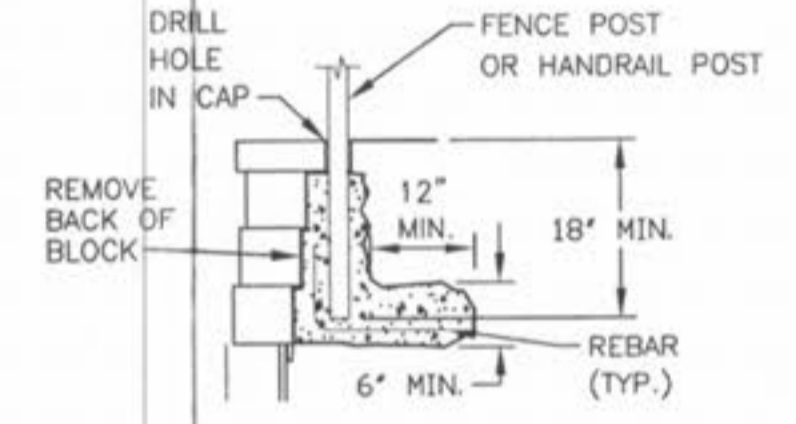
* ENM = effective neutralizing material as per State evaluation of quarried rock.



1. FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
2. SHOULD THE FABRIC DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL BE NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
3. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY HALF THE HEIGHT OF THE BARRIER.
4. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEEDDED.



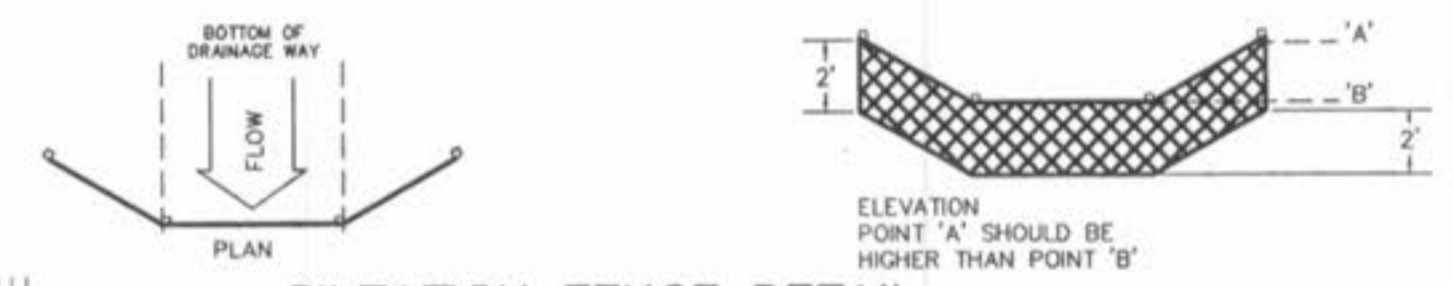
POST DETAIL - PLAN VIEW
TYPICAL HANDRAIL AND/OR FENCE POST
SCALE: NONE



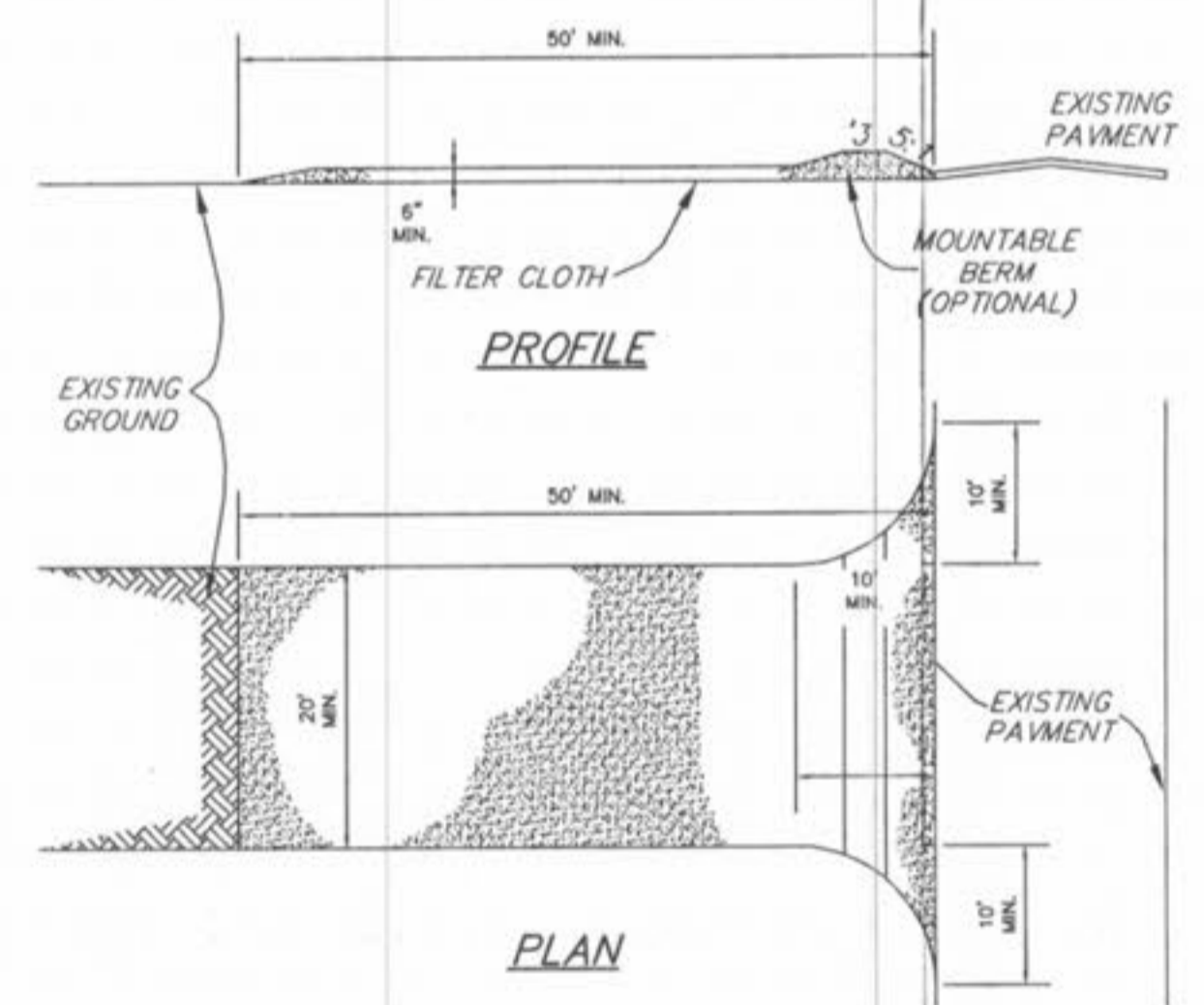
POST DETAIL - SECTION A-A
TYPICAL HANDRAIL AND/OR FENCE POST
SCALE: NONE



DEPRESSED SILTATION TRAP
N.T.S.



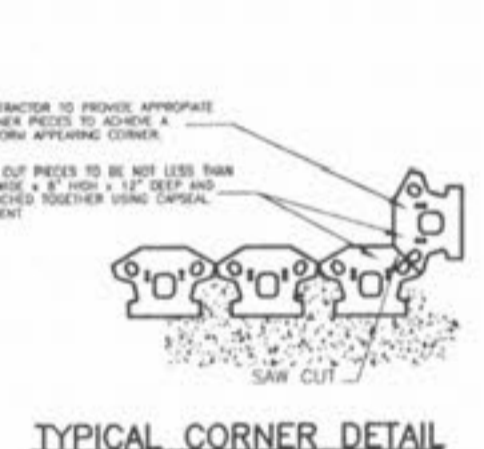
SILTATION FENCE DETAIL



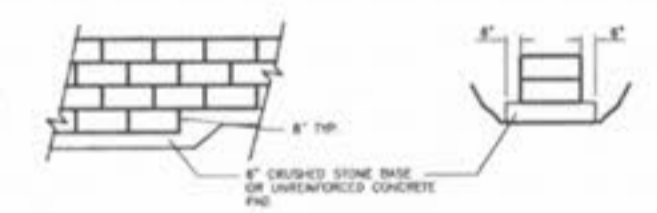
CONSTRUCTION SPECIFICATIONS

1. Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent.
2. Length - As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply).
3. Thickness - Not less than six (6) inches.
4. Width - Twenty (20) foot minimum, but not less than the full width at points where ingress or egress occurs.
5. Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter will not be required on a single family residence lot.
6. Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 5:1 slopes will be permitted.
7. Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.
8. Washing - Wheels shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
9. Periodic inspection and needed maintenance shall be provided after each rain.

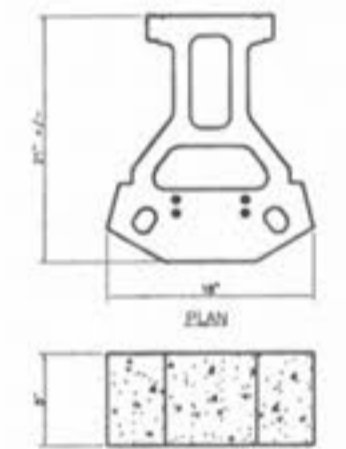
STABILIZED CONSTRUCTION ENTRANCE/WASHDOWN AREA
NOT TO SCALE



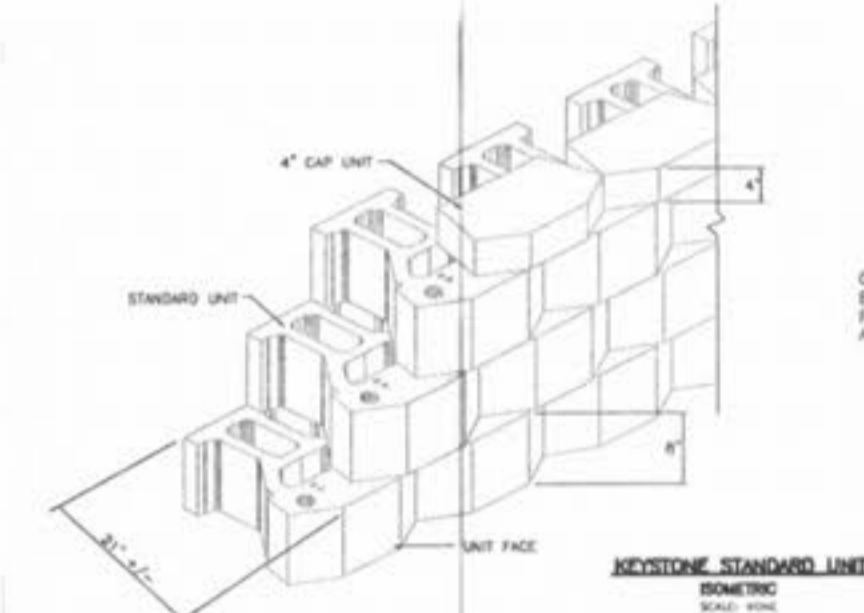
TYPICAL CORNER DETAIL
SCALE: NONE



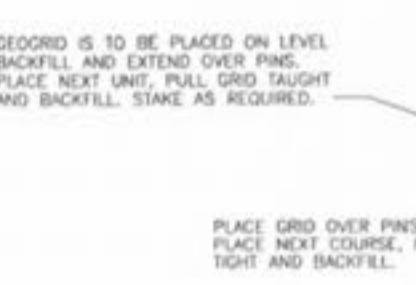
LEVELING PAD AND STEP DETAILS
SCALE: NONE



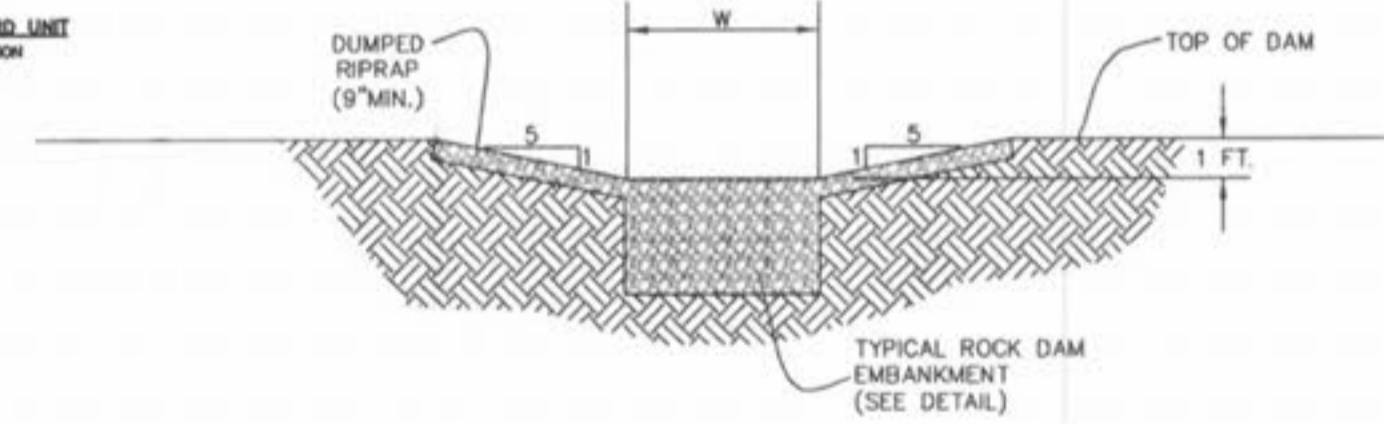
KEYSTONE STANDARD UNIT
SCALE: NONE



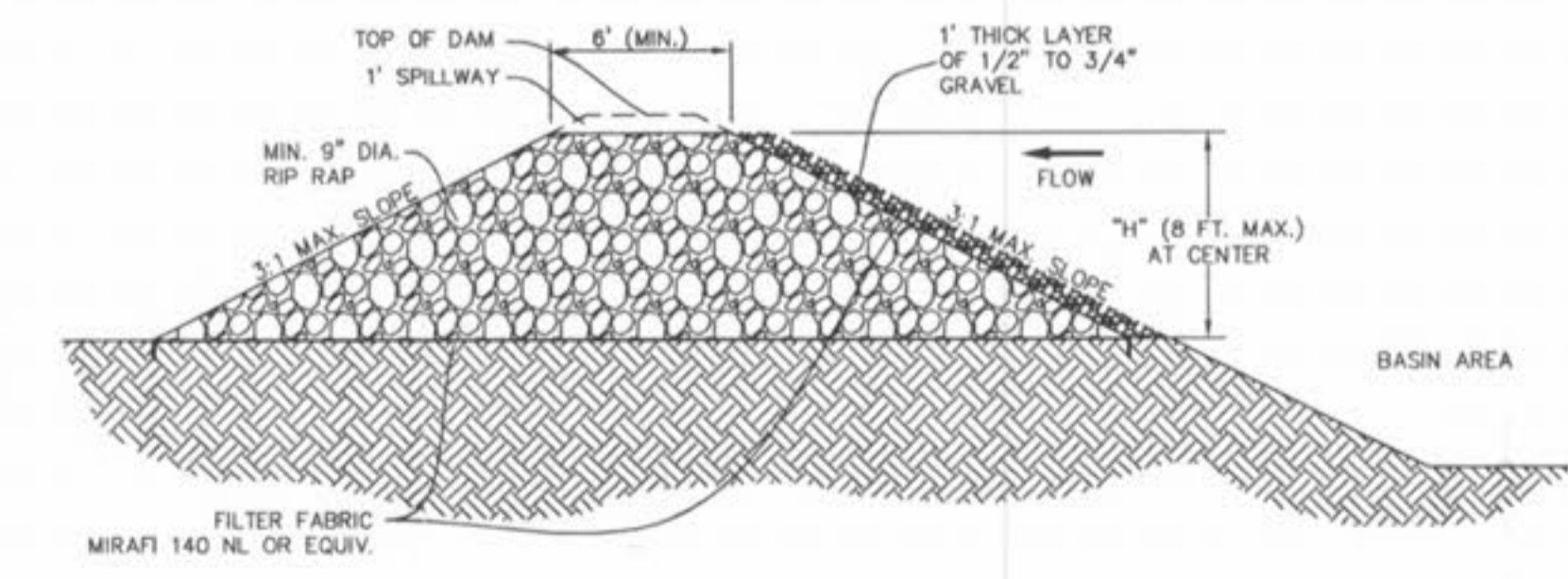
TYPICAL REINFORCED SECTION
SCALE: NONE



KEYSTONE STANDARD UNIT GRID/PIV CONNECTION
SCALE: NONE



SPILLWAY DETAIL
N.T.S.



TYPICAL ROCK SPILLWAY DETAIL
N.T.S.

| Wall Height | Keystone Mini Units | | | | Keystone Compact Units | | | | Keystone Standard Units | | | |
|-------------|---------------------|---------------------|-------|-------|------------------------|-------|------------------|---------------------|-------------------------|-------|-------|---|
| | # Geogrid Layers | Geogrid Length | A | B | C | D | # Geogrid Layers | Geogrid Length | A | B | C | D |
| 2' | 1 | No geogrid required | 2' | - | - | - | 1 | No geogrid required | 2' | - | - | - |
| 3' | 2 | 4' | 2' | 3.33' | - | - | 2 | 4' | 2' | 3.33' | - | - |
| 4' | 3 | 5' | 1.33' | 2.67' | 4' | - | 3 | 5' | 2' | 3.33' | - | - |
| 5' | 4 | 5.9' | 1.33' | 2.67' | 4.9' | 5.33' | 4 | 5.9' | 2' | 3.33' | 4.67' | - |

All geogrids are to be Mirafi SRW00, 2XT, or 3XT

KEYSTONE MASTERPLAN
ST. LOUIS COUNTY, MO

KEYSTONE, INC.
Keystone Wall Systems
8800 Page Ave.
St. Louis, MO, 63114
314/428-4800

GEOGRID LAYOUT - SLOPING FILL

GRADATION OF STONE FOR EROSION CONTROL

1. HEAVY STONE REVERMENT
- STONE FOR HEAVY STONE REVERMENT SHALL BE SOUND, DURABLE, AND FREE FROM CRACKS AND OTHER STRUCTURAL DEFECTS THAT WOULD CAUSE IT TO DETERIORATE. IT SHALL NOT CONTAIN ANY SOAPSTONE, SHALE, OR OTHER MATERIAL EASILY DISINTEGRATED. THE STONE SHALL BE AT LEAST 12 INCHES IN THICKNESS PERPENDICULAR TO THE SLOPE AND BouldERS SHALL WEIGH NOT LESS THAN 50 POUNDS AND AT LEAST 60 PERCENT SHALL WEIGH NOT LESS THAN 100 POUNDS.

PROJECTED SILT VOLUME (Avg.):

(DISTURBED GROUND)
LS (TABLE B-6)=0.70
* SEDIMENT DELIVERY RATIO: TABLE B-7, 1-5 Ac.=0.70
* SEDIMENT YIELD: DRY POOL, LOESS SOIL, TABLE B-8=0.048
SEDIMENT VOLUME/Ac.: STORAGE PERIOD 1 YEAR
(0.70)(0.048)(1 Ac.)(1 YEAR)=0.0336 Ac.ft.
(0.0336)(43560)=1463.6 cu.ft./AC.(Avg.)
* ST. CHARLES SOIL & WATER CONSERVATION DISTRICT "MODEL SEDIMENT & EROSION CONTROL REGULATIONS"
STORM WATER

OUTFALL DIMENSIONS:
BASIN 1 H=4', W=15' 15 CFS
BASIN 2 H=3', W=15' 11.25 CFS
BASIN 3 H=4', W=20' 15 CFS
BASIN 12 H=4', W=20' 15 CFS
BASIN B H=4', W=10'

OUTFLOW FLOW RATE FOR MIRAFI 140 NL = 150 GPM/SQ.FT. USE 110 GPM/SQ.FT. * 0.25 c.u. Ft./sec./SQ.FT. *PARTIALLY BLOCKED

| ISSUE | REMARKS/DATE |
|-------|-------------------|
| 1 | 09/15/03 - Pinned |
| 2 | 12/12/03 |

PREPARED FOR:
WHISPERING L.L.C.
5091 NEW BAUMGARTNER ROAD
ST. LOUIS, MISSOURI 63129
(314) 487-6717

PREPARED BY:
THE STERLING CO.
ENGINEERS & SURVEYORS
5095 NEW BAUMGARTNER ROAD
ST. LOUIS, MISSOURI 63129
(314) 487-0440 FAX 487-5944
E-Mail: Sterling@sterling-eng-aur.com

DRAWN: [Signature]
DESIGNED: [Signature]
CHECKED: [Signature]

PROJECT: **WHISPERING WOODS**

SHEET TITLE: **SILTATION CONTROL DETAILS**

NO. **03** OF **021**

M.S.D. SHEET **SC1**

DIGITAL FILE LOCATION: [Path]
REVISED: [Date]
DATE: [Date]

Drawing name: K:\D\030201 LBEFFLER TRACT\Improvement\2021SILT-DET.dwg Plotted on Dec 12, 2003 - 11:38am Plotted by: cschaefer