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.)

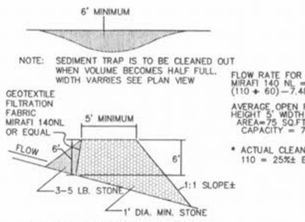
SEEDING PERIODS:
- Fescue or Brome – March 1 to June 1, August 1 to October 1
- Wheat or Rye – March 15 to November 1
- Oats – March 15 to September 15

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

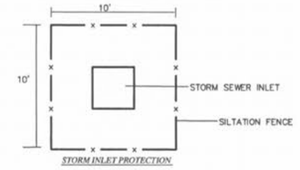
FERTILIZER RATES:

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

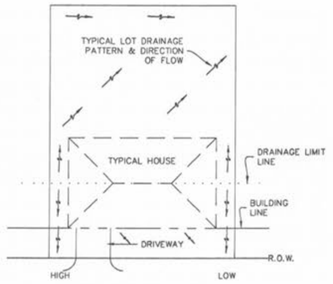
* ENM = effective neutralizing material as per State evaluation of quarried rock.



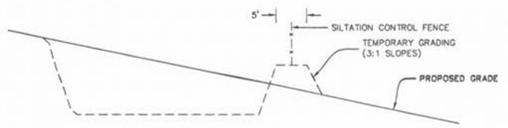
ROCK DITCH CHECK/SEDIMENT CONTROL



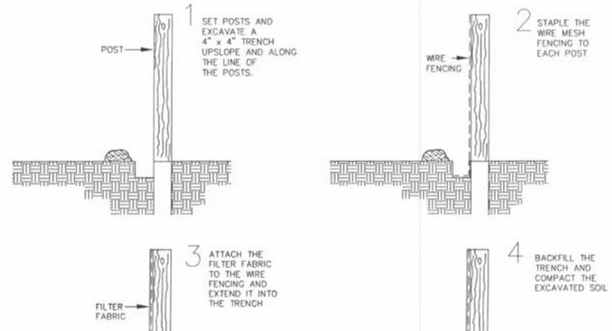
STORM INLET PROTECTION



TYPICAL LOT DRAINAGE
N.T.S.



DEPRESSED SILTATION TRAP
N.T.S.

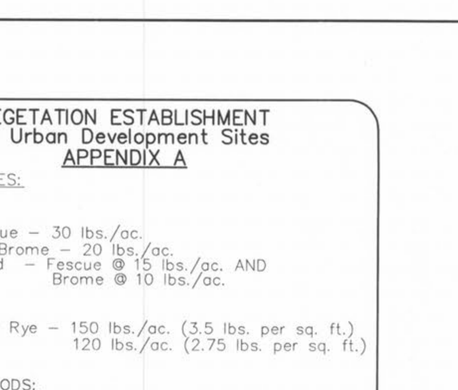


1. FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
2. SHOULD THE FABRIC DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL BE NECESSARY, THE 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 THIE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEEDED.

SILTATION FENCE DETAIL

SILTATION CONTROL SWALE: FLOW

INTERIM TEMPORARY GRADING:

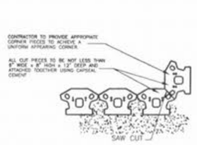


CONSTRUCTION SPECIFICATIONS

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.

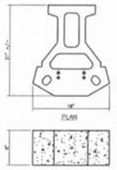
STABILIZED CONSTRUCTION ENTRANCE/WASHDOWN AREA

NOT TO SCALE

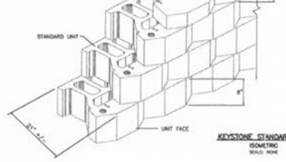


TYPICAL CORNER DETAIL

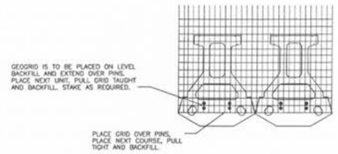
PLAN
SCALE: NONE



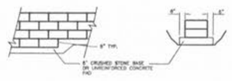
KEYSTONE STANDARD UNIT
SCALE: NONE



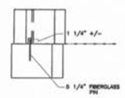
KEYSTONE STANDARD UNIT
ISOMETRIC
SCALE: NONE



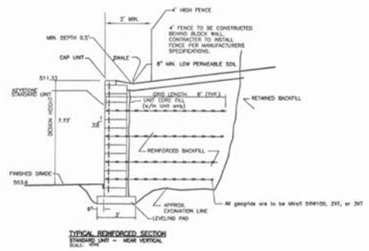
KEYSTONE STANDARD UNIT
GRID/PIN CONNECTION
SCALE: NONE



LEVELING PAD AND STEP DETAILS
SCALE: NONE



KEYSTONE STANDARD UNIT
GRID CONNECTION
SCALE: NONE



TYPICAL REINFORCED SECTION
STANDARD UNIT – NEAR VERTICAL
SCALE: NONE

NOTE:
SEE MANUFACTURES RECOMMENDATIONS FOR GRID PLACEMENT/LENGTH.

Wall Height	Keystone Mini Units # Geogrid Layers	Geogrid Length	A	B	C	D	Keystone Compact Units # Geogrid Layers	Geogrid Length	A	B	C	D	Keystone Standard Units
2'	No geogrid required		2'	–	–	–	No geogrid required		2'	–	–	–	No geogrid required
3'	1	3'	2'	–	–	–	1	3'	2'	–	–	–	No geogrid required
4'	2	4'	2'	3.33'	–	–	2	4'	2'	3.33'	–	–	No geogrid required
5'	3	5'	1.33'	2.67'	4'	–	3	5'	2'	3.33'	–	–	Same as compact units
6'	4	5.5'	1.33'	2.67'	4.5'	5.33'	4	5.5'	2'	3.33'	4.67'	–	Same as compact units

All geogrids are to be Mirafi SRW100, 2XT, or 3XT

KEYSTONE MASTERPLAN ST. LOUIS COUNTY, MO	KIENSTRA, INC. Keystone Wall Systems 8601 Page Ave St. Louis, MO. 63114 314/426-4800	GEOGRID LAYOUT – SLOPING FILL

GRADATION OF STONE FOR EROSION CONTROL

1. HEAVY STONE REVERMENT

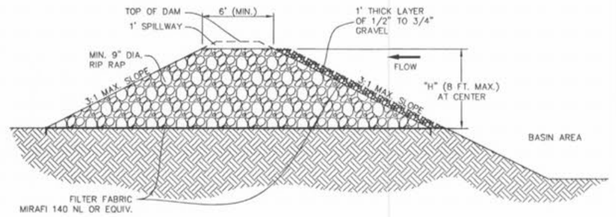
STONE FOR HEAVY STONE REVERMENT SHALL BE SOUND, DURABLE, AND FREE FROM CRACKS AND OTHER STRUCTURAL DEFECTS THAT WOULD CAUSE IT TO DETERIORATE. IT SHALL NOT CONTAIN ANY SOAPSTONE, SHALE, OR OTHER MATERIAL EASILY DISINTEGRATED. THE STONE SHALL BE AT LEAST 12 INCHES IN THICKNESS PERPENDICULAR TO THE SLOPE 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-5)=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.)

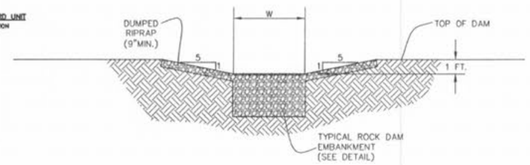
* ST. CHARLES SOILD & WATER CONSERVATION DISTRICT "MODEL SEDIMENT & EROSION CONTROL REGULATIONS"

STORM WATER



TEMPORARY SEDIMENT CONTROL POND OUTFALL
TYPICAL ROCK SPILLWAY DETAIL
N.T.S.

OUTFALL DIMENSIONS:	OUTFLOW	FLOW RATE FOR MIRAFI 140 NL
BASIN 1 H=4', W=15'	15 CFS	110 GPM/SQ.FT. ≈ 0.25 c.u. Ft./sec/SQ.ST.
BASIN 2 H=3', W=15'	11.25 CFS	
BASIN 3 H=4', W=20'	15 CFS	
BASIN T2 H=4', W=20'	15 CFS	
BASIN B H=4', W=10'		



SPILLWAY DETAIL
N.T.S.

ISSUE REMARKS/DATE

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

8/18/03

PREPARED BY:
THE STERLING CO.
ENGINEERS & SURVEYORS
5055 NEW BAUMGARTNER ROAD
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E-Mail: Sterling@sterling-eng-sur.com

DRAWN: DESIGNED: CHECKED:

PROJECT: WHISPERING WOODS

SHEET TITLE: SILTATION CONTROL DETAILS

NO. 03 02 021
M.S.D. P#
DIGITAL FILE LOCATION: SERVER=STERLING-2 X:\Q\ KEYSTONE.dwg
SHEET SC1 OF 5

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