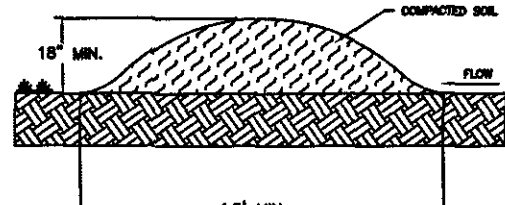
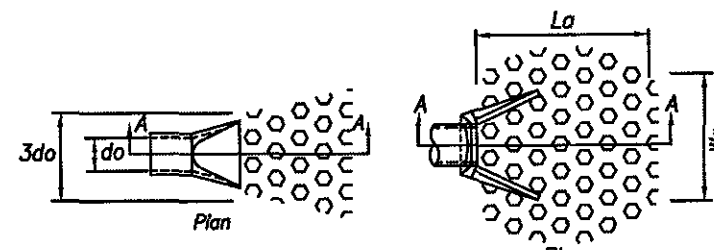


NO.	TITLE	KEY	SYMBOL	NO.	TITLE	KEY	SYMBOL
3.01	SAFETY FENCE	SAF		3.20	ROCK CHECK DAMS	CD	
3.02	TEMPORARY GRAVEL CONSTRUCTION ENTRANCE	CE		3.21	LEVEL SPREADER	LS	
3.03	CONSTRUCTION ROAD STABILIZATION	CRS		3.22	VEGETATIVE STREAMBANK STABILIZATION	VSS	
3.04	STRAW BALE BARRIER	STB		3.23	STRUCTURAL STREAMBANK STABILIZATION	SSS	
3.05	SILT FENCE	SF		3.24	TEMPORARY VEHICULAR STREAM CROSSING	VSC	
3.06	BRUSH BARRIER	BB		3.25	UTILITY STREAM CROSSING	USC	
3.07	STORM DRAIN INLET PROTECTION	IP		3.26	DEWATERING STRUCTURE	DS	
3.08	CULVERT INLET PROTECTION	CIP		3.27	TURBIDITY CURTAIN	TC	
3.09	TEMPORARY DIVERSION DIKE	DD		3.28	SUBSURFACE DRAIN	SD	
3.10	TEMPORARY FILL DIVERSION	FD		3.29	SURFACE ROUGHENING	SR	
3.11	TEMPORARY RIGHT-OF-WAY DIVERSION	RWD		3.30	TOPSOILING	TO	
3.12	DIVERSION	DV		3.31	TEMPORARY SEEDING	TS	
3.13	TEMPORARY SEDIMENT TRAP	ST		3.32	PERMANENT SEEDING	PS	
3.14	TEMPORARY SEDIMENT BASIN	SB		3.33	SODDING	SO	
3.15	TEMPORARY SLOPE DRAIN	TSO		3.34	BERMUDA GRASS AND ZOYSIAGRASS ESTABLISHMENT	BZ	
3.16	PAVED FLUME	PF		3.35	MULCHING	MU	
3.17	STORMWATER CONVEYANCE CHANNEL	SCC		3.36	SOIL STABILIZATION BLANKETS AND MATTING	BM	
3.18	OUTLET PROTECTION	OP		3.37	TREES, SHRUBS, VINES AND GROUND COVERS	VEG	
3.19	RIPRAP	RR		3.38	TREE PRESERVATION AND PROTECTION	TP	
				3.39	DUST CONTROL	DC	

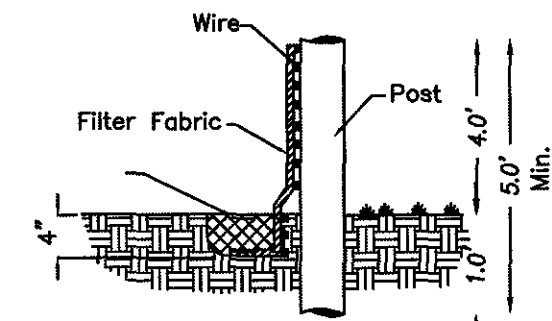


- DD TEMPORARY DIVERSION DIKE
- FD TEMPORARY FILL DIVERSION
- RWD TEMPORARY RIGHT-OF-WAY DIVERSION
- DV DIVERSION



OP OUTLET PROTECTION

NOTES
1. Apron lining may be rip-rap, grouted rip-rap or concrete.
2. L_a is the length of the rip-rap apron as calculated using plates 1.36d and 1.36e.
3. $d=1.5$ times the maximum stone diameter, but not less than 6".



* CROSS-SECTION
Centerline 10' IF WIRE IS USED
6' IF WIRE IS NOT USED.

SF CONSTRUCTION OF A SILT FENCE

CONTRACTOR SHALL SECURE A CERTIFIED LAND DISTURBER FOR THIS PROJECT. THE NAME OF THE CERTIFIED R.L.D. SHALL BE GIVEN TO THE PROPER AUTHORITIES BEFORE OBTAINING A GRADING PERMIT.

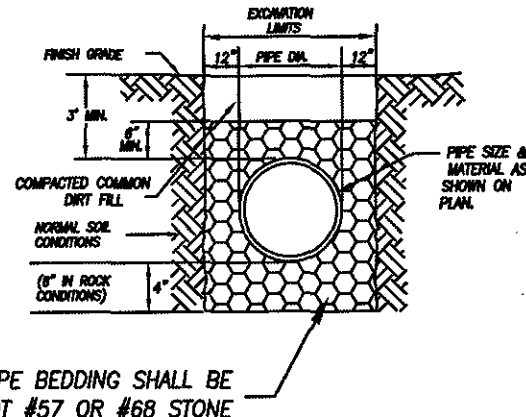
PS PERMANENT SEEDING MIXTURE

TYPE A
15 OCTOBER TO 1 FEBRUARY
K-31 FESCUE @ 5 LB / 1000 SF
BORZY WINTER RYE @ 1/2 LB / 1000 SF
1 FEBRUARY TO 1 JUNE
K-31 FESCUE @ 5 LB / 1000 SF
ANNUAL RYE @ 1/2 LB / 1000 SF
1 JUNE TO 1 SEPTEMBER
K-31 FESCUE @ 5 LB / 1000 SF
GERMAN MILLET @ 1/2 LB / 1000 SF
1 SEPTEMBER TO 15 OCTOBER
K-31 FESCUE @ 5 LB / 1000 SF
ANNUAL RYE @ 1/2 LB / 1000 SF
LIME: 140 LB / 1000 SF PULVERIZED AGRICULTURAL LIMESTONE
FERTILIZER: 5-20-10 @ 25 LB / 1000 SF
38-0-0 @ 7 LB / 1000 SF
MULCH: IF REQUIRED, SHALL BE USED OVER ALL SEEDED AREAS AND SHALL BE APPLIED IN ACCORDANCE WITH SECTION 1.75 OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION.
SOIL CONDITIONING: INCORPORATION OF LIME AND FERTILIZER, SELECTION OF CERTIFIED SEED, MULCHING, MAINTENANCE OF NEW SEEDLINGS, AND RESEEDING SHALL BE IN ACCORDANCE WITH SPECIFICATIONS CONTAINED WITHIN THE VIRGINIA SOIL EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION. ADDITIONAL SEEDING TO BE PERFORMED AS REQUIRED BY THE INSPECTOR.
SEED APPLICATION: APPLY SEED UNIFORMLY WITH A CYCLONE SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDROSEEDER ON A FIRM, FRABLE, SEEDBED. MAXIMUM SEEDING DEPTH SHALL BE 1/4 INCH.

TYPE B (SLOPES 3:1 OR STEEPER)
15 MARCH TO 1 MAY
CROWN VETCH @ 1/2 LB / 1000 SF
PERENNIAL RYE GRASS @ 1/2 LB / 1000 SF
RED TOP @ 1/8 LB / 1000 SF
15 AUGUST TO 1 OCTOBER
CROWN VETCH @ 1/2 LB / 1000 SF
PERENNIAL RYE GRASS @ 1/2 LB / 1000 SF
RED TOP @ 1/8 LB / 1000 SF

EROSION - SEDIMENT CONTROL PHASING NOTES

1. INSTALL ALL PERIMETER SILT FENCE.
2. CONSTRUCT STORMWATER MANAGEMENT PONDS AND OUTLET STRUCTURES (FACILITIES TO BE USED AS TEMPORARY SEDIMENT BASINS).
3. INSTALL DIVERSION DIKES TO DIVERT RUNOFF TO THE PONDS.
4. INSTALL INLET AND OUTLET PROTECTION IMMEDIATELY AFTER STORM SEWER AND INLET PLACEMENT.
5. CONTRACTOR SHALL REMOVE EROSION CONTROL MEASURES ONLY AFTER DISTURBED AREAS ARE STABILIZED AND APPROVAL HAS BEEN OBTAINED FROM THE INSPECTOR.
6. SOIL STOCKPILE AREA FOR GLEBE ROAD, IF NEEDED, SHALL BE LOCATED WITHIN OWNER'S PROPERTY AS SHOWN ON SHEET C10. CONTRACTOR MUST COORDINATE EXACT LOCATION OF STOCKPILE AND ADDITIONAL EROSION CONTROL MEASURES WITH THE COUNTY EROSION CONTROL INSPECTOR.



STORM SEWER BEDDING DETAIL
NOT TO SCALE

EROSION AND SEDIMENT CONTROL NARRATIVE

PROJECT DESCRIPTION
THIS PROJECT INCLUDES THE INFRASTRUCTURE FOR PHASE 1 OF THE DALEVILLE TOWN CENTER. EAS MEASURE AND PLANS FOR THE MASS GRADING PROJECT ARE TO BE IN USE DURING THIS CONSTRUCTION. THE ADDITION OF INLET AND OUTLET PROTECTION FOR THE STORM SEWER SYSTEM IS REQUIRED AND IS PROVIDED.

EXISTING SITE CONDITIONS
THE EXISTING SITE CONDITIONS FOR THIS SITE ARE AGRICULTURAL ORCHARD FARM LAND.

OFFSITE AREAS
NO OFF SITE AREAS EXIST FOR THIS PROJECT.

ADJACENT PROPERTY
THE PROPERTY IS BOUND ON THE NORTH AND WEST SIDES BY EXISTING ROADS, AND HAS RESIDENTIAL DEVELOPEMENT ON THE SOUTH AND EAST SIDES.

CRITICAL EROSION AREAS
CRITICAL EROSION AREAS INCLUDE ALL AREAS WHERE SLOPES ARE 2:1 OR GREATER. ALL 2:1 SLOPES WILL RECEIVE TURF REINFORCEMENT MATTING.

SOILS
SEE SOILS MAP AND SOILS DESCRIPTIONS.

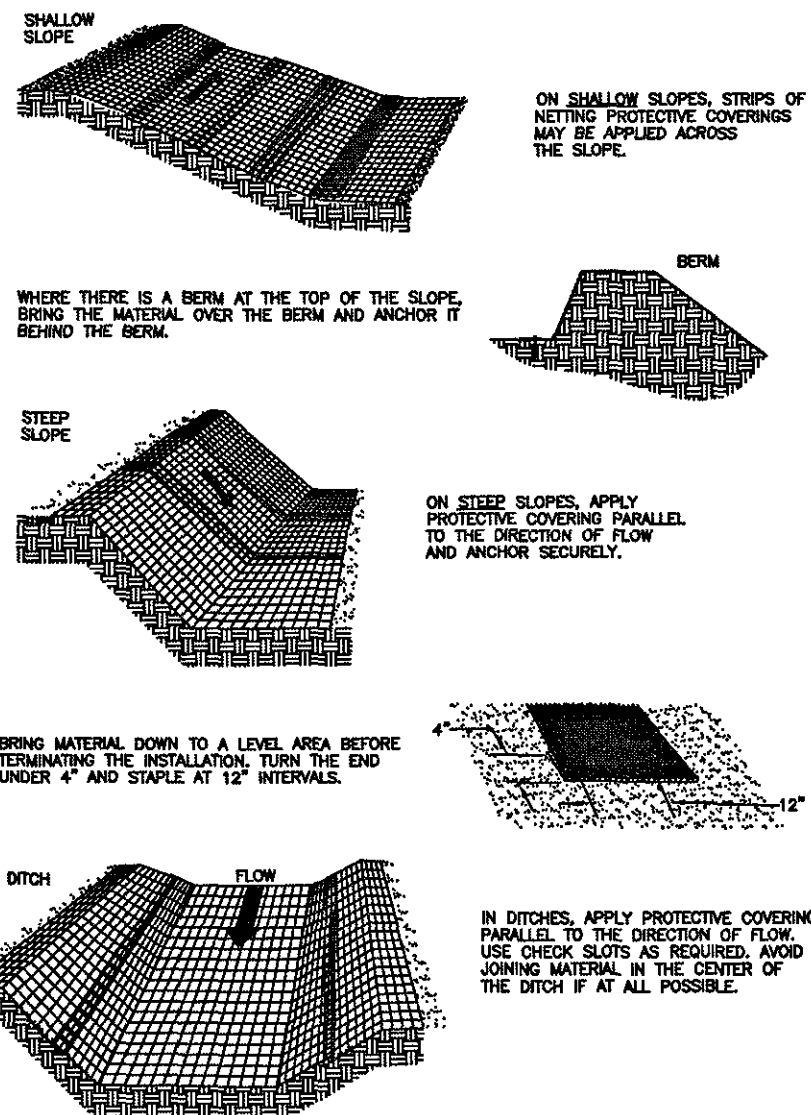
EROSION AND SEDIMENT CONTROL MEASURES
UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE 1992 VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, OR LATEST EDITION. THE MINIMUM STANDARDS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL REGULATIONS SHALL BE ADHERED TO UNLESS OTHERWISE WAIVED OR APPROVED BY A VARIANCE.

STRUCTURAL PRACTICES
1. CE - TEMPORARY CONSTRUCTION ENTRANCE - 3.02
A TEMPORARY CONSTRUCTION ENTRANCE SHALL BE INSTALLED IN THE AREA SHOWN ON THE GRADING AND EROSION CONTROL SHEET.
2. SF - SILT FENCE BARRIER - 3.05
SILT FENCE BARRIERS WILL BE INSTALLED DOWN SLOPE OF AREAS WITH MINIMAL GRADE TO FILTER SEDIMENT LADEN RUNOFF FROM SHEET FLOW.

VEGETATIVE PRACTICES

1. TS - TEMPORARY SEEDING - 3.31
ALL DENUDED AREAS WHICH WILL BE LEFT DORMANT FOR MORE THAN 7 DAYS, SHALL BE SEEDED WITH FAST GERMINATING TEMPORARY VEGETATION IMMEDIATELY FOLLOWING GRADING.
 2. PS - PERMANENT SEEDING - 3.32
ALL FINAL-GRADED AREAS WHERE PERMANENT COVER IS DESIRED OR ROUGH-GRADED AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE FOR A YEAR OR MORE SHALL BE SEEDED WITH PERENNIAL VEGETATION WITHIN 7 DAYS OF REACHING FINAL GRADE.
 3. B/M - SOIL STABILIZATION BLANKETS & MATTING - 3.36
A PROTECTIVE COVERING (BLANKET) OR A SOIL STABILIZATION MAT WILL BE INSTALLED ON PREPARED PLANTING AREAS OF STEEP SLOPES, CHANNELS, OR SHOULDERLINES WHERE NOTED. VDOT EC-2 SHALL BE USED ON SLOPES STEEPER THAN 2.5:1. ALL SLOPES 2.5:1 OR LESS SHALL BE HYDRO-SEEDED.
- MAINTENANCE**
IN GENERAL, ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CHECKED DAILY AND AFTER EACH SIGNIFICANT RAINFALL. THE FOLLOWING ITEMS WILL BE CHECKED IN PARTICULAR:
1. THE SEDIMENT TRAPPING DEVICES WILL BE CHECKED REGULARLY FOR SEDIMENT CLEAN-OUT.
2. THE GRAVEL OUTLETS WILL BE CHECKED REGULARLY FOR SEDIMENT BUILDUP THAT MAY PREVENT DRAINAGE. IF THE GRAVEL IS CLOGGED BY SEDIMENT, IT SHALL BE REMOVED AND CLEANED, OR REPLACED.
3. THE SILT FENCE BARRIERS WILL BE CHECKED REGULARLY FOR UNDERMINING OR DETERIORATION OF THE FABRIC. SEDIMENT SHALL BE REMOVED WHEN THE LEVEL OF SEDIMENT DEPOSITION REACHES HALF WAY TO THE TOP OF THE BARRIER.
4. THE SEEDED AREAS WILL BE CHECKED REGULARLY TO ENSURE THAT A GOOD STAND OF GRASS IS MAINTAINED. AREAS SHALL BE FERTILIZED AND RE-SEEDED AS NEEDED.
- PERMANENT STABILIZATION**
ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE STABILIZED WITH PERMANENT SEEDING WITHIN 7 DAYS OF REACHING FINAL GRADES. SEEDING SHALL BE DONE WITH KENTUCKY 31 TALL FESCUE ACCORDING TO STD. AND SPEC. 3.32, PERMANENT SEEDING, OF THE 1992 VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION. MULCH (STRAW OR FIBER) WILL BE USED ON ALL SEEDED AREAS. IN ALL SEEDING OPERATIONS, SEED, FERTILIZER AND LIME WILL BE APPLIED PRIOR TO MULCHING. EROSION CONTROL BLANKETS MAY BE INSTALLED OVER FILL SLOPES WHICH HAVE BEEN BROUGHT TO FINAL GRADE AND HAVE BEEN SEEDED TO PROTECT THE SLOPES PROPERLY.
- STORMWATER MANAGEMENT**
STORMWATER WILL BE PHASED AS THE SITE IS DEVELOPED.

BM TYPICAL ORIENTATION OF TREATMENT - 1 (SOIL STABILIZATION BLANKET)



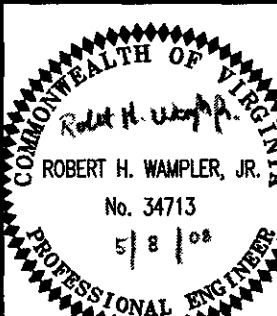
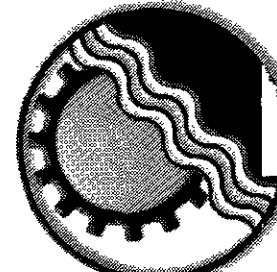
SOURCE: ADAPTED FROM LUGLOW PRODUCTS BROCHURE

PLATE: 3.36-1

DESCRIPTION
BY
MARK DATE
REVISIONS

DATE 5/8/08
PROJECT 03083
DESIGNED RHW
DRAWN MSJU
CHECKED RHW

ENGINEERING
CONCEPTS, INC.
"Creating Success"
201 S. Riverside Street, P.O. Box 818
JANESVILLE, WI 53402-0818
TEL: 608.785.2222 FAX: 608.785.2224



PROJECT FRALIN AND WALDRON
DALEVILLE TOWN CENTER
DRAWING EROSION AND SEDIMENT CONTROL DETAILS
SHEET