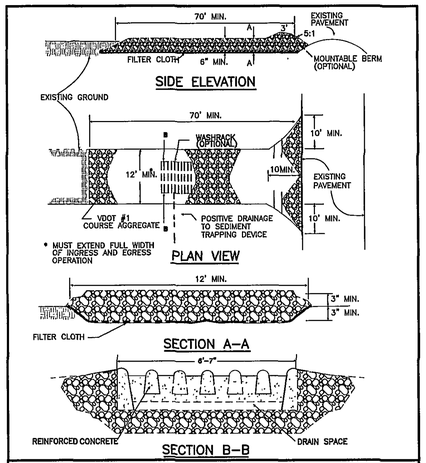
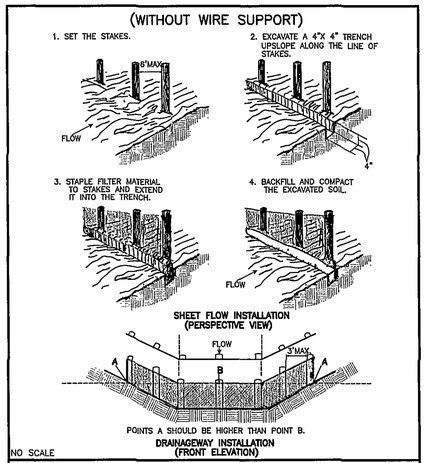


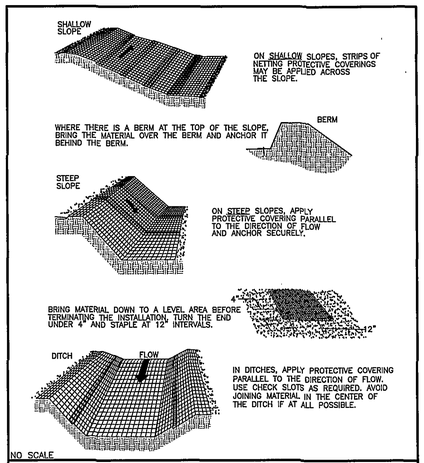
NO SCALE **STONE CONSTRUCTION ENTRANCE**

SOURCE: ADAPTED from 1983 Maryland Standards for Soil erosion and Sediment Control, and Va. DSWC

Plate 3.02-1



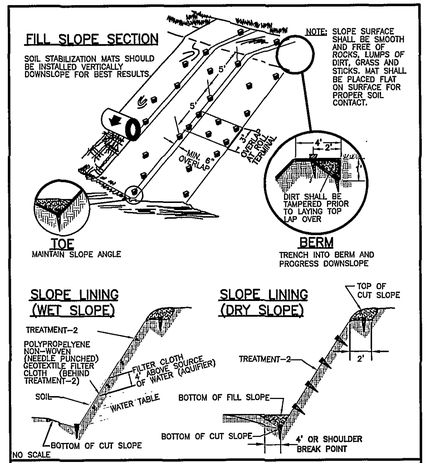
NO SCALE **CONSTRUCTION OF A SILT FENCE**



NO SCALE **TREATMENT 1 – TYPICAL ORIENTATION**

SOURCE: ADAPTED FROM LUDLOW PRODUCTS BROCHURE

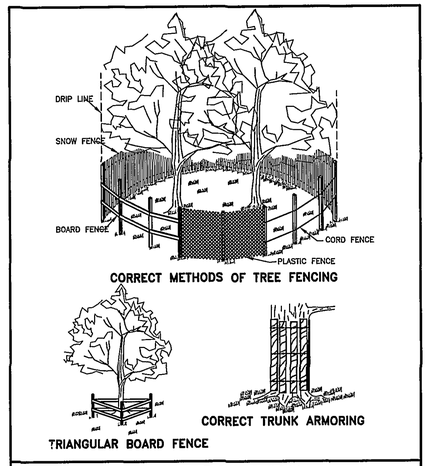
PLATE: 3.36-1



NO SCALE **TREATMENT 2 – SLOPE INSTALLATION**

SOURCE: VDOT ROAD AND BRIDGE STANDARDS

PLATE: 3.36-5



NO SCALE **TREE PROTECTION**

Source: Va. DSCW

Plate 3.38-2

(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

TYPE B (SLOPES 3:1 OR STEEPER)

15 MARCH TO 1 MAY
CROWN VETCH @ 1/2 LB / 1000 SF
PERENNIAL RYEGRASS @ 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 RYEGRASS @ 1/2 LB / 1000 SF
RED TOP @ 1/8 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, FRIABLE, SEEDBED. MAXIMUM SEEDING DEPTH SHALL BE 1/4 INCH.

TOTAL DISTURBED AREA = 74,405 S.F. AC. = 1.71

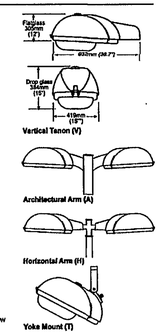
SEEDING SCHEDULE

MONGOOSE®

How to construct a catalog number for Mongooses' luminaire: Fixture type _____

EXAMPLE: G – 400HP – 24 – 1 – MC – V – I – B
1 2 3 4 5 6 7 8

Catalog no.	Description
1 Luminaire type	
X G	Mongoose
2 Source and wattage	
__ 100HP	100W HPS, mogul base
__ 150HP	150W/S3 volt, HPS, mogul base
__ 250HP	250W HPS, mogul base
__ 400HP	400W HPS, mogul base
__ 175MH	175W Metal halide, mogul base
__ 250MH	250W Metal halide, mogul base
X 400MH	400W Metal halide, mogul base
__ 750MH	750W Metal halide, mogul base (Available through TSG with MM optics using compact lamps only)
3 Voltage – TO BE DETERMINED BY CONTRACTOR	
__ 12	120 volt
__ 20	208 volt
__ 24	240 volt
__ 27	277 volt
__ 34	347 volt
__ 48	480 volt
__ 08	208 volt, isolated secondary (Available through TSG)
__ 40	240 volt, isolated secondary (Available through TSG)
__ MT	Multi-volt (120, 208, 240, 277 volt)
__ MA	Multi-volt. Wired to 120V tap.
__ MB	Multi-volt. Wired to 208V tap.
__ MC	Multi-volt. Wired to 240V tap.
__ MD	Multi-volt. Wired to 277V tap.
__ VT	Van-tap (120, 277, 347V). With 250HP, 400HP, 250MH & 400MH only
4 Tilt range	
X L	Low tilt, 0° to 15°
__ H	High tilt, 27° to 45°
5 Optics	
__ DC	Medium roadway clear drop glass (Available with "H" tilt range only)
__ DR	Medium roadway prismatic refractor (Available with "H" tilt range only)
__ FC	Forward throw, clear drop glass (400W MH requires compact lamp). Available with "L" low tilt range only.
X FF	Forward throw, flat glass (400W MH requires compact lamp) (Available with "L" low tilt range only)
__ NC	Narrow roadway clear drop glass (Low tilt comes with shallow glass optic)
__ NF	Narrow roadway flat glass (Available with "L" low tilt range only)
__ NR	Narrow roadway prismatic refractor
__ WD	Wide flood (Available with "H" high tilt range only)
__ WF	Wide flood (Available with "H" high tilt range only)
__ SC	Square distribution, clear drop glass (Available with "L" low tilt range only)
__ SF	Square distribution, flat glass (175W, 250W & 400W MH; 400W MH requires compact lamp. (Available with "L" low tilt range only)
__ WC	Wide roadway clear drop glass (Low tilt comes with shallow glass optic)
__ NF	Wide roadway flat glass (Available with "L" low tilt range Only)
__ WR	Wide roadway prismatic refractor



Ordering Data

HOLOPHANE® 20

Ordering Data

Catalog no.	Description
6 Mounting	
X A	Architectural arm
__ H	Horizontal arm
__ T	Yoke mount (Available through TSG)
__ V	Vertical tenon
7 Finish	
__ G	Gray
X K	Black
__ N	Green
__ W	White
__ Z	Bronze
8 Options – TO BE DETERMINED BY CONTRACTOR	
__ B	Terminal block and NEMA decal (Not available with Option C)
__ C	NEMA decal (Not available with Option B)
__ P	Protected starter (HPS only)
__ R	NEMA twistlock photocontrol receptacle
__ T	Spade termination for bailed leads (Available with MT, MA, MB, MC, MD and VT ballasts only)
__ 3	3" tenon adaptor (Available with "V" mounting only)
__ 6	6' pigtail
Accessories – TO BE DETERMINED BY CONTRACTOR	
__ F1	Single fuse kit (Available with 12, 24, 27, and 34V units)
__ F2	Dual fuse kit (Available with 20, 24, and 48V units) NA with 08 and 40V
__ Lamp	Strip appropriate lamp as line item
__ BK15-6	Galvanized wood pole bracket
__ BK1001-XXX	3" to 2" tenon adaptor bracket

Notes: 1 Adaptor will be painted same color as fixture finish in Step 6.
2 Insert Gll Gray, KK Black, GN Green, WH White, BZ Bronze for "XX" in catalog number.

Flat glass

Clear drop glass (regular)

Clear drop glass (shallow glass optics)
Standard with low tilt NC and WC optics

MONGOOSE®

21 HOLOPHANE®

MONGOOSE®

Photometric test number, IES distribution type, and cutoff classification

Watts/ Lamp	12 Flat Glass	12 Clear Drop	12 Prismatic Refractor	24 Flat Glass	24 Clear Drop	24 Prismatic Refractor	27 Flat Glass	27 Clear Drop	27 Prismatic Refractor	34 Flat Glass	34 Clear Drop
100 HPS	49203 I/FC	51853 I/C	49499 I/C				49416 II/FC	51851 II/C	49499 I/C		
150 HPS	49274 I/FC	51850 I/C	49506 I/C	51004 II/FC	51003 II/C		49419 II/FC	51854 II/C	49513 I/C	51899 N/FC	51895 N/C
175 MH	49499 I/FC	51876 I/C	49518 I/C	51980 I/FC	51979 II/C		49440 II/FC	51875 II/C			51894 N/NC
250 HPS	49200 I/FC	51562 I/C	49527 I/C	51901 II/FC	51900 II/C	49524 I/C	49305 II/FC	51844 II/C		51890 N/FC	51891 N/C
250 MH	49299 I/FC	51869 I/C		51905 II/FC	51906 II/C					51898 N/FC	51893 N/C
400 MH COMPACT										51896 N/FC	51892 N/NC
400 HPS	49257 I/FC	51561 I/C	49482 I/C	51902 II/FC	50347 II/NC	50346 II/NC	49300 II/FC	51943 II/C	49484 I/C	51888 N/FC	51887 N/C
400 MH	50281 I/FC	52307 I/C	50278 I/C				50276 II/FC	49624 II/C	50279 I/C		

* IES Distribution: FC = Full Cutoff; C = Cutoff; SC = Semi-Cutoff; NC = Non Cutoff
All lamps are clear

Photometric test number, IES distribution type, and cutoff classification

Watts/ Lamp	175 Flat Glass	175 Clear Drop	250 Clear Drop	250 Prismatic Refractor	400 Clear Drop	400 Prismatic Refractor	750 Flat Glass	750 Clear Drop
150 HPS	51431 N/FC	51444 N/NC	49739 N/NC	49738 N/NC	49622 N/NC	49623 N/NC		51151 N/SC
175 MH	51449 N/FC	51443 N/NC	49747 II/NC	49746 N/NC	49663 N/NC	49664 N/NC	51049 II/FC	51039 N/NC
250 HPS	51437 N/FC	51440 N/SC	49736 II/NC	49734 II/NC	49686 N/NC	49685 II/NC		51135 N/SC
250 MH	51452 N/FC	51442 N/NC	49757 II/C	49758 N/NC	50000 N/NC	49669 N/NC	51048 II/FC	51041 II/SC
400 MH COMPACT	51448 N/FC	51441 N/NC					51055 II/FC	51037 II/NC
400 HPS	51419 N/FC	51417 N/SC	49730 II/C	49732 II/NC	49699 N/NC	49700 N/NC		51132 N/SC
400 MH	51034 N/FC	51028 N/C	49291 II/NC	49530 II/NC	49662 II/NC	49661 II/NC		51031 N/NC

IES Distribution: FC = Full Cutoff; C = Cutoff; SC = Semi-Cutoff; NC = Non Cutoff
* All units tested at 0° tilt except offset types
All lamps are clear

Example: N, FC = IES Type N, Full Cutoff

Photometric Test Matrix

HOLOPHANE® 22

GAY AND NEEL, INC.
CIVIL ENGINEERING
LAND PLANNING
SURVEYING
328 Mountain Avenue S.W.
Roanoke, Virginia 24016
Phone: (540) 345-1110 Fax: (540) 345-5560
Email: info@gayandneel.com

Erosion & Sediment Control Details

Kabuki Expansion
Prepared For
Koeda Akio
City of Roanoke, Virginia

COMMONWEALTH OF VIRGINIA
MICHAEL G. GAY
Lic. No. 17560
12/13/07
PROFESSIONAL ENGINEER

REVISED:
10/19/07
11/02/07

DESIGNED/CALC.: RCM
CHECKED: RCM
DRAWN: PLJ,RWA
SCALE: N/A
DATE: 07/02/07

JOB NO. 1800.0

SHEET 10 OF 13