

SDP-10-012

of **2**

SSO

4. CONCRETE:

5. FOUNDATIONS:

2.15.10

DATE

5-13-16

OF 2500 LBS. PER SQ. IN.

FORMULA: $D = \left(\frac{14.52M}{Pd}\right)^{1/3}$

d= DIAMETER OF PIER (FT.)

D= DEPTH OF PIER (FT.)

AS THE FORMS.

PRINTED NAME OF ENGINEE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD

SOIL CONSERVATION DISTRICT AND MEETSTHEHINDRAL

SDA - NATURAL RESOURCE CONSERVATION SERVICE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL

EROSION, AND SEDIMENT CONTROL BY THE HOWARD

APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION

A. CONCRETE IN THE PIERS SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH

B. CONCRETE SHALL BE PLACED IN DRILLED PIERS UTILIZING THE EARTH

A. THE DRILLED PIERS HAVE BEEN DESIGNED UTILIZING AN ALLOWABLE PASSIVE PRESSURE OF 300 LBS. PER SQ. FT. AND THE FOLLOWING

REPRESENTS THE ADDITIONAL COST FACTOR FOR TREATING THE BASIC WOOD STRUCTURE INDICATED ON THIS REFERENCE PLAN. THE NECESSITY FOR TREATMENT AND THE TYPE OF PRESERVATIVE WILL BE SUBJECT TO LOCAL CONDITIONS. ALL TREATMENTS SHALL CONFORM TO AWPA STD C-14. 7. ALTERNATIVE #2 (PAINTING) ALTERNATIVE #2 REPRESENTS THE ADDITIONAL

COST FACTOR REQUIRED TO PAINT ONE SIDE OF THE BASIC WOOD STRUCTURE SHOWN ON THIS REFERENCE PLAN. PAINTING SHALL CONSIST

CONFORMING TO FEDERAL SPECIFICATION TT-P-009966 SHALL BE APPLIED

OVER PRIMER COAT CONFORMING TO FEDERAL SPECIFICATION TT-P-00250. 8. ALTERNATIVE #3 (STAINING) ALTERNATIVE #3 REPRESENTS THE ADDITIONAL

COST FACTOR REQUIRED TO STAIN ONE SIDE OF BASIC WOOD STRUCTURE. STAIN SHALL CONSIST OF 2 COATS OF SEMI-TRANSPARENT SEALER STAIN

9. PROVIDE 5' WIDE \times 0'-6" HIGH OPENING AT BOTTOM OF NOISE WALL EVERY 10' FOR SHEETFLOW.

APPLIED IN ACCORDANCE WITH MANUFACTURES WRITTEN INSTRUCTIONS.

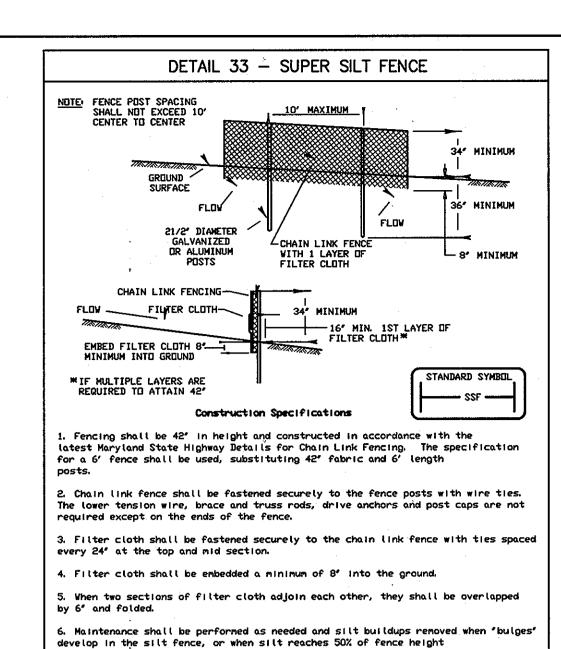
OF 3 APPLICATIONS OF PAINT, 2 COATS OF LATEX BASE PAINT

M= MOMENT AT TOP OF DRILLED PIER (FT/LBS)

P= ALLOWABLE PASSIVE PRESSURE (300 LBS PER SQ.FT.)

6. ALTERNATIVE #1 (PRESERVATIVE TREATMENT) ALTERNATIVE #1





7. Filter cloth shall be fastened securely to each fence post with wire ties or staples at top and mid section and shall meet the following requirements for Geotextile Class \mathbf{F}^{I}

H - 26 - 3	MAIEN			7.00.000.000.000.000
PAGE				T OF ENVIRONME ADMINISTRATION
75% (min.)		Test	TM2M	322
0.3 gal/ft*/minute	(max.)	Test	MSMT	355
20 lbs/in (min.)		Test	MSMT	509
50 lbs/in (min.)		Test	MSMT	509
	20 lbs/in (min.) 0.3 gal/ft*/minute 75% (min.)	20 lbs/in (min.) 0.3 gal/ft ^e /minute (max.) 75% (min.)	20 lbs/in (min.) Testi 0.3 gal/ft*/minute (max.) Testi 75% (min.) Testi	20 lbs/in (min.) 0.3 gal/ft*/minute (max.) 75% (min.) Test: MSMT Test: MSMT

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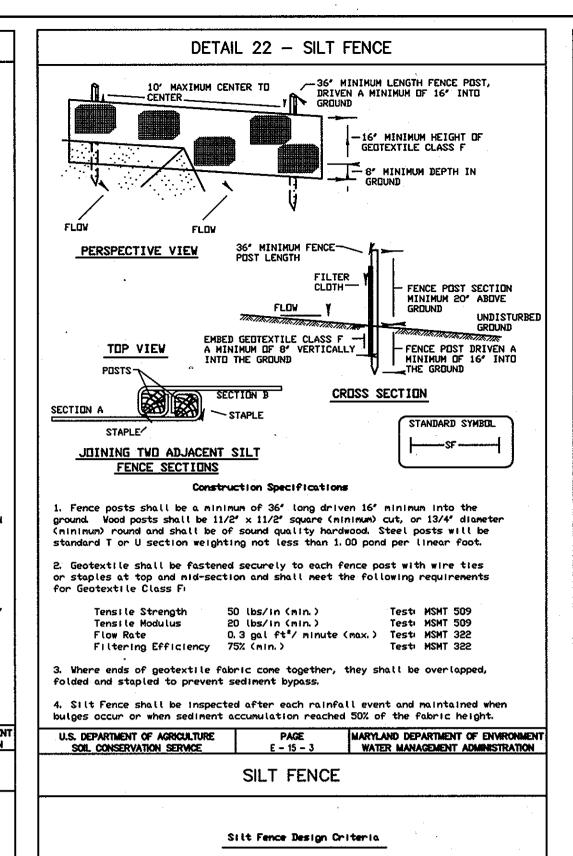
Design Criteria

SOIL CONSERVATION SERVICE

Slope	Stope Steepness	Stope Length (maximum)	Silt Fence Length (maximum)
0 - 10%	0 - 10 1	Unlimited	Unlimited
10 - 20%	10 1 - 5 1	200 feet	1,500 feet
20 - 33%;	5 1 - 3 1	100 feet	1,000 feet
33 - 50%	3:1 - 2:1	100 feet	500 feet
50% +	2:1 +	50 feet	250 feet

MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

21 TREES (16 SHADE TREES, 5 EVERGREENS)



(MaxI mum)

Slope Length

unlimited

125 feet

100 feet

60 feet

40 feet

Note: In areas of less than 2% slope and sandy soils (USDA general classification

system, soil Class A) maximum slope length and silt fence length will be unlimited. In these areas a silt fence may be the only perimeter control

Slope Steepness

Flatter than 50

50:1 to 10:1

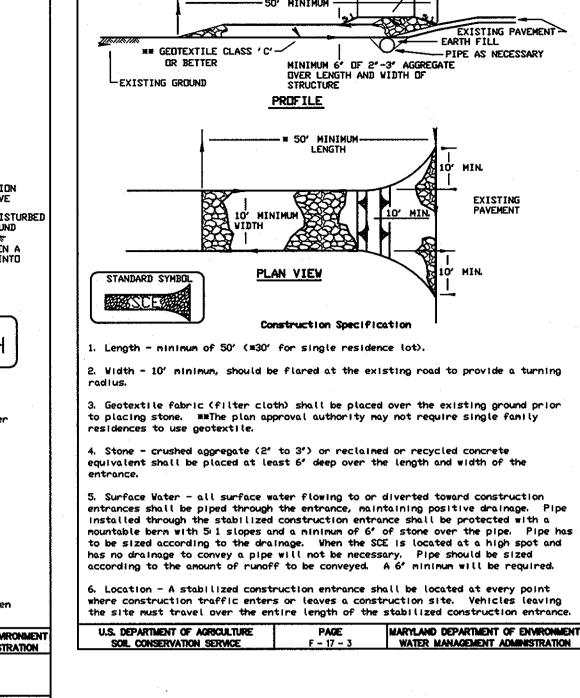
10:1 to 5:1

5:1 to 3:1

3:1 to 2:1

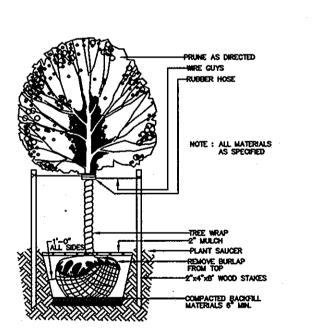
2:1 and steeper

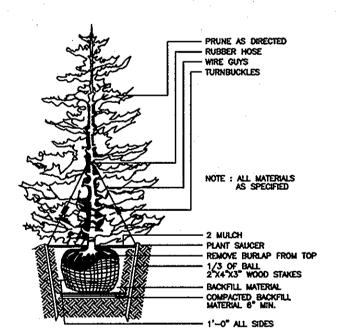
U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE



DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE

BERM (6' MIN.)





(Maximum)

Silt Fence Length

unlimited

750 feet

500 feet

250 feet

MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

1,000 feet

TYPICAL DECIDUOUS TREE PLANTING DETAIL TYPICAL EVERGREEN TREE PLANTING DETAIL NOT TO SCALE

	<u>LAN</u>	DSCAPE REQUIREMENT	PLANTING SCHEDULE	<u>F</u>
QUANTITY	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE
16	233	ACER RUBRUM 'RED SUNSET'	RED SUNSET RED MAPLE	2 1/2" - 3" CAL.
5	**	PINUS STROBUS	WHITE PINE	6' - 8' HT.
T0.T44				

COURDIUM A . DEDIMENTO LANDSCADED EDCE

CATEGORY	ADJ TO ROADWAY	ADJACENT TO PERIMETER PROPERTIES			TOTAL
LANDSCAPE TYPE	B (PERIMETER 1)	A (PERIMETER 2)	A (PERIMETER 3)	A (PERIMETER 4)	
LINEAR FEET OF PERIMETER	204.92 LF	226.62 LF	223.48 LF	265.88 LF	
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET)	N/A	N/A	YES, 40 LF OF EX. TREES TO REMAIN (183.48 LF REMAINING)	N/A	
NUMBER OF PLANTS REQUIRED SHADE TREES EVERGREEN TREES SHRUBS	4 SHADE TREES 5 EVERGREEN TREES 0 SHRUBS	4 SHADE TREES 0 EVERGREEN TREES 0 SHRUBS	3 SHADE TREES 0 EVERGREEN TREES 0 SHRUBS	5 SHADE TREES 0 EVERGREEN TREES 0 SHRUBS	16 SHADE TREES 5 EVERGREEN TREES 0 SHRUBS
NUMBER OF PLANTS PROVIDED SHADE TREES EVERGREEN TREES OTHER TREES (2:1 SUBSTITUTION) SHRUBS (10:1 SUBSTITUTION)	4 SHADE TREES 5 EVERGREEN TREES 0 SUBSTITUTION TREES 0 SHRUBS	4 SHADE TREES 0 EVERGREEN TREES 0 SUBSTITUTION TREES 0 SHRUBS	3 SHADE TREES 0 EVERGREEN TREES 0 SUBSTITUTION TREES 0 SHRUBS	5 SHADE TREES 0 EVERGREEN TREES 0 SUBSTITUTION TREES 0 SHRUBS	16 SHADE TREES 5 EVERGREEN TREES 0 SUBSTITUTION TREES 0 SHRUBS

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